U.S. Army Corps of Engineers
New York District

SPECIFICATIONS

Lincoln Hall
Renovation & Modernization
United States Military Academy
West Point, NY
March 1, 2023

Revised RTA Submission

Volume 1 of 3:
Specifications

JACOBS / EWING COLE A Joint Venture

Contract #: W912DS-19-C-0031

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SECTION 00 00 00

SEALS PAGE
06/15

PART 1 SUMMARY

1.1 SEALS AND SIGNATURES

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Architect.

Profession Architecture.

License No. VA 0401015587.

Expiration Date: 02/29/2024.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer.

Profession Structural.

License No. VA 031804.

Expiration Date: 01/31/2024.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Certified Interior Designer.

Profession Interior Design.

License No. VA 0412000817.

Expiration Date: 10/31/2023.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer.

Profession Fire Protection.

License No. VA 030373.

Expiration Date: 02/28/2025.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer.

Profession Mechanical.

License No. VA 033845.

Expiration Date: 01/31/2025.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer.

Profession Electrical.

License No. VA 0402047869.

Expiration Date: 06/30/2023.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Registered Communications Distribution Designer.

Profession Telecom.

License No. BICSI ID#112947.

Expiration Date: 12/31/2024.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer.

Profession Civil.

License No. NY 076240-1.

Expiration Date: 06/30/2025.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Architect.

Profession Landscape Architecture.

License No. NY 001981.

Expiration Date: 10/31/2025.

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SECTION 00 00 01

COVER SHEET
01/18

PART 1 GENERAL

NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278-0090

INVITATION FOR BIDS
FOR

LINCOLN HALL RENOVATION AND MODERNIZATION
United States Military Academy
WWest Point, NY

1. Attached is INVITATION FOR BIDS (IFB) NO. W912DS-21-D-0000

2. BIDS MUST BE SET FORTH full, accurate, and complete information as required by this Invitation for Bids, including attachments. The penalty for making false statements in bids is prescribed under Title 18, United States Code, Section 1001.

3. SUBMISSION OF BIDS: Complete details concerning proper submission of bids are contained in the INSTRUCTIONS, CONDITIONS, AND NOTICES TO BIDDERS (Section 00 21 16).

4. Note the REQUIREMENT FOR AFFIRMATIVE ACTION of the EQUAL OPPORTUNITY clause as it applies to the contract resulting from this solicitation. (See paragraph NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY in Section 00 21 16 of this IFB).

5. REPRESENTATIONS AND CERTIFICATIONS - SECTION 00 45 00 as completed by USACE Bidders and Offerors are required to complete the REPRESENTATIONS AND CERTIFICATIONS and submit them with their bids.

   Within Section 00 45 00, note in particular the PROHIBITION SEGREGATED FACILITIES. Failure of a bidder or offeror to agree to the certification will render his bid or offer non-responsive to the terms of solicitations involving awards of contracts exceeding $10,000 which are not exempt from the provisions of the Equal Opportunity Clause (1984 APR).

7. Please review all bonds and accompanying documents required to be submitted. Bonds, Powers of Attorney, statements of authenticity and continuing validity, and all related documents **MUST NOT** bear computer printer-generated signatures and/or seals. Documents bearing signatures and/or seals generated as part of a document, as opposed to being affixed to the document **after** its generation, will not be accepted. Submission of such documents may render the bid or offer non-responsive and ineligible for award.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

SECTION 01 11 00

SUMMARY OF WORK
08/15

PART 1 GENERAL

1.1 DEFINITIONS

a. As set forth in UFC 1-300-02, Change 3, 18 May 2021, 2-3.1, in project specifications directed to the Construction Contractor, replace the word "shall" with the word "must."

1.2 REFERENCES

The publications listed below form a part of this section to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety and Health Requirements Manual

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Dig Safe Permit

1.4 GENERAL

a. The Contractor must be required to (i) commence work under this contract within five (5) calendar days after the date the Contractor receives the Notice to Proceed, (ii) prosecute the work diligently, and (iii) complete the entire work ready for use, not later than 810 calendar days after the date the Contractor receives the notice to proceed. The time stated for completion must include the final cleanup of the premises. (FAR 52.212-3)

b. The Contractor must furnish all labor, materials, equipment, and services for the following work as described in the construction documents.

c. All work must be in accordance with the drawings and specifications or instructions attached hereto and made a part thereof, or to be furnished hereafter by the Contracting Officer and subject, in every detail, to his supervision, direction, and instructions.

1.5 WORK COVERED BY CONTRACT DOCUMENTS

1.5.1 Project Description

The work includes the renovation of Lincoln Hall and its supporting facilities. Lincoln Hall is a large, 60,495 SF historically significant building on the United States Military Academy Campus that currently houses academic classrooms and offices. It is seven stories above grade on the east side of the building and four stories above grade to the west side of the building. The building use will change primarily administrative use housing offices for the Staff Judge Advocate, USMA Admissions Department, the Directorate of Cadet Activities Academy Store, and the Academy Multimedia Department.

Improvements include the repair, replacement, and cleaning of exterior facade elements; conversion of 4th floor space into a television studio and associated control rooms; video editing suites; provision of a new service elevator; insulation of exterior walls; new ceilings, floors, and finishes; mechanical and plumbing systems; electrical system; telecommunications; and civil/connections to the utilities. Support facilities include a new dunnage platform in the service yard to the south of Lincoln Hall.

During construction, the contractor must monitor archaeological resources. All digging within the historically sensitive areas of post is to be done with the oversight of DPW Cultural Resource Officer.

1.5.2 Base Bid and Options - see price schedule

Base Bid

CLIN 0001: All work associated with the renovation of Lincoln Hall, Building 607 as per plans and specifications including the infrastructure only for CLINs (7,8, 9, 10, 11 and 12), excluding all Base/Optional CLINs below.

CLIN 0001A - In Situ Cast Stone Repair - Repair Damaged cast stone in accordance with A-900 drawing series and Specification Section 04 03 00 CONSERVATION TREATMENT FOR PERIOD MASONRY and 04 03 10 CAST STONE RESTORATION. Include cost for CLIN 0001A in CLIN 0001. Provide a unit price for cast stone in situ repair, should additional repairs be needed due to continued deterioration.

CLIN 0001B - Cast Stone Replacement - Replace cast stone that is so severely damaged it cannot be repaired in accordance with A-900 drawing series and Specification Section 04 03 00 CONSERVATION TREATMENT FOR PERIOD MASONRY and 04 03 10 CAST STONE RESTORATION. Include cost for CLIN 0001B in CLIN 0001. Provide a unit price for cast stone replacement, should additional repairs be needed due to continued deterioration.

CLIN 0002: Work outside of the 5’ line surrounding the building - All work associated with concrete sidewalks/curbs associated with the project, and the following outside the 5-foot line: Storm Drainage, Communications ductbank, and Electrical ductbank (ES) as depicted on drawing sheet CU101.

CLIN 0003: Mass Rock Excavation - this CLIN includes all work associated with mass rock removal within the project boundaries. Specifically, this includes, but is not limited to, the excavation of the elevator pit

depicted on Structural Drawing S-101 and S-402.

CLIN 0004: Trench Rock Excavation - this CLIN includes all work associated with rock removal for trenches within the project boundaries. Specifically this includes, but is not limited to, the excavation for the storm drainage, duct banks and other linear features as described in the construction drawings.

CLIN 0005: Supporting Facilities - Work associated with new supporting facilities including the Mechanical Yard footings and framing as described in the architectural drawing A-102 and structural drawings S-102 and S-103. Enclosure of the North Wing SallyPort including all work associated with the storefront window system as depicted in the architectural drawings A-101, A-203 and A-204 and described in this section. Repair of the North Wing retaining wall as described in this section and shown on CS101 note 11.

CLIN 0006: Turnover of O/M manuals and as-builts. The contractor is to turnover all O/M manuals and as-built drawings as directed by the COR at the conclusion of construction.

Optional Items

CLIN 0007 - OPTION 1: Security (Intrusion Detection System) All additional work as per the plans and specifications that are not part of CLIN 0001 specifically relating to the intrusion detection system (IDS) for the Cadet Store. This CLIN does not include access control to the building.

CLIN 0008 - OPTION 2: Cellular Distributed Antenna System - All work associated with CFCI Cellular DAS including but not limited to head-end equipment, cabling, devices, integration, and testing as described in the plans and specifications. Rough-in, pathway, conduit, etc. is included in CLIN 0001, and not included in this CLIN. Provide new devices, amplifiers, etc. through C-squared. Inventory and turn over old devices to Gary Albaugh in USMA G6.

CLIN 0009 - Option #3: Wireless Access Points - All additional work as per the plans and specifications including cabling devices and head-end work for wireless access points. Rough-in, pathways and conduit is included in CLIN 0001 and excluded here. Provide new devices, amplifiers, etc. through C-squared. Inventory and turn over old devices to Gary Albaugh, USMA G6. Equipment that is existing to be relocated or new equipment will be provided by the government and installed by the contractor.

CLIN 0010 - Option #4: Outside Plant Fiber - All work associated with installation of outside plant fiber in accordance with plans and specifications back to Building 600. The fiber supporting the Television Studio is to be run from Building 600, as detailed in the telecommunication plans. The other OSP fiber supporting Lincoln Hall is extended from the telecommunications installation during the Cullum Hall project. Please see the telecommunications drawings for additional information.

CLIN 0011 - Not Used.

CLIN 0012 - Option #6: Communications - All additional communications work per plans and specifications that is not specifically included in the

preceding CLINs.

1.5.3 Location

The work is located at the United States Military Academy at West Point, New York, 10996, Lincoln Hall. The exact location is indicated within the project construction drawings. The site of the work is on the property for a military reservation and all rules and regulations issued by the Commanding Officer covering general safety, security, and sanitary requirements, etc., must be observed by the Contractor.

1.6 DFARS 236.204, DISCLOSURE OF THE MAGNITUDE OF CONSTRUCTION PROJECTS

This project is estimated between $25,000,000 and $100,000,000.

1.7 EXISTING WORK

In addition to FAR 52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements:

a. Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work which remain.

b. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Contracting Officer. At the completion of operations, existing work must be in a condition equal to or better than that which existed before new work started.

c. At Contractor's own expense, Contractor must immediately restore to service and repair any damage caused by Contractor's workmen to the existing piping and conduits, wires, cables, etc., of utility services or of fire protection systems and communications systems (including telephone). Contractor must provide immediate notification of the Contracting Officer and verbal procedures to restore. The Contractor must immediately assemble personnel, equipment and material necessary to restore. Compliance with Contract Documents for quality installation must be included. The work must proceed at 24-hours per day until satisfactorily restored service is achieved. Fixing loose ends requires Contracting Officer approval to perform during normal working hours. The request to perform repairs during normal working hours requires Contractor's written approval. The write up of procedures to repair must be submitted ASAP.

d. The Contractor must repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

1.8 AUTHORIZED CONSTRUCTION AREA AND TRESPASSING

Do not inflict damage upon land and properties outside the authorized construction area by unwarranted entry upon, passage through, damage to, or disposal of, material on such land or property. The Contractor may make a separate agreement with any other party, regarding the use of, or right to, land or facilities outside the contract area. If such an agreement is

made, it must be in writing and a copy must be provided to the Contracting Officer. The Contractor must hold and save the Government, its officers, and agents free from liability arising from trespassing or damage occasioned by his operations.

Work on or near roadways must be flagged in accordance with the safety requirements in Safety and Health Requirements Manual EM 385-1-1, which forms a part of these specifications. Work located along the alert force route must not cause blockage, and the Contractor must maintain unobstructed access for alert force traffic at all times. Roadway construction must maintain two lanes of travel lanes when possible. Coordinated with the Contracting Officer any potential lane closures 15 days in advance of construction blockage.

1.9 PRIVATIZED UTILITIES

USAG WP has privatized water, wastewater and electrical service. All utility work on these systems shall be coordinated with the Utility System Owners; Electric = City Light and Power; Water and Wastewater = American Water Federal Services.

Primary point of contact for coordination are:

Robert Griffin
robert.w.griffin86.civ@army.mil
Contracting Officer's Representative

Victoria Sabel
victoria.k.sabel.ctr@army.mil
Department of Public Works Project Manager

All work on privatized utilities to the point of demarcation indicated on the drawings shall be completed by the utility system owner. The contractor shall closely coordinate the scope of utility work with the appropriate system owner to avoid conflicts and duplication. Project specified utility work by the System Owners shall be paid directly by the government; costs associated with temporary utility services for Contractor use shall be the Contractor’s responsibility.

1.10 LOCATION OF UNDERGROUND UTILITIES

Obtain digging permits prior to start of excavation, and comply with Installation requirements for locating and marking underground utilities. No excavation whether minor or major including trenching, sidewalk replacement, etc. will be permitted without an approved digging permit. Contractor must apply for renewal of work permits as required if the work continues beyond the original permit expiration date. Contact local utility locating service a minimum of 15 days prior to excavating, to mark utilities, and within sufficient time required if work occurs on a Monday or after a Holiday. Verify existing utility locations indicated on contract drawings, within area of work.

Identify and mark all other utilities not managed and located by the local utility companies. Scan the construction site with Ground Penetrating Radar (GPR), electromagnetic, or sonic equipment, and mark the surface of the ground or paved surface where existing underground utilities are discovered. Verify the elevations of existing piping, utilities, and any type of underground obstruction not indicated, or specified to be removed, that is indicated or discovered during scanning, in locations to be

traversed by piping, ducts, and other work to be conducted or installed. Verify elevations before installing new work closer than nearest manhole or other structure at which an adjustment in grade can be made.

1.10.1 Notification Prior to Excavation

Notify the Contracting Officer at least 30 days prior to starting excavation work. The Contractor must be responsible for obtaining a West Point "Dig-Safe Permit" and call 811 Dig Safely NY prior to commencing any excavation. The procedure for obtaining this "Dig-Safe Permit" is as follows:

a. The Contractor must notify the Contracting Officer in writing 30 working days prior to commencing excavation. Notification letter and a completed Dig Safe Permit Request will be submitted to the Contracting Officer and must include areas to be excavated, reason for excavation, depth of excavation, and supporting information such as drawings to allow the processing of permit. A copy of the Dig Safe Permit Request is attached below. The top portion of the request must be filled out by the Contractor. The Contractor cannot be compensated for delay caused by failure to notify government on timely basis to obtain the digging permit.

b. Once the permit is approved and signed by the Chief of the Utilities Division a Dig-Safe Permit will be issued to the Contractor. From the issuance of the Dig-Safe permit, the Contractor has two weeks to commence excavation, after that the permit will no longer be valid and will have to be re-submitted.

c. Once utilities have been identified and marked, it is the responsibility of the Contractor to maintain markings throughout the duration of the project.

d. In the event that utility line is damaged, all excavation will stop, and the Contracting Officer and U&FD (845-938-2818) will be contacted immediately. The U&FD will take appropriate action to effect safe repair. If utility lines are uncovered which were not identified in the Dig-Safe, the U&FD will be contacted, and a determination will be made as to which utility is involved and whether the lines are active or abandoned. When an unknown line is uncovered, it will be treated as "live" until determined otherwise.

e. The Dig-Safe permit may be received by the requestor with special instructions that involve procedures determined safe by the Chief, Utilities and Facilities Division. Comply with these instructions.

f. Excavation may generate further actions depending upon each situation. Unknown utility locations must be recorded and drawings changed to show location.

g. There are no exceptions to the Dig-Safe Permit process.

h. See SOP 11-7 ANNEX V for additional requirements to obtain a Dig Safe Permit.

1.11 INTEGRATION OF BUILDING AUTOMATION SYSTEM (BAS) INTO THE UTILITY MONITORING AND CONTROL (UMCS)

Coordinate with DPW Energy manager Bass Shakra @

bass.a.shakra.civ@army.mil for BAS and integration into the UMCS for the West Point projects. Guidelines are as follows; See attached DPW Guidelines for more information.

a. Integration of the project's BAS on the existing UMCS server isrequired for West Point Projects. The integration must be commissioned under the USACE supervision, and must pass before the project delivery and official acceptance.

b. Provide and deliver the computer for goverment approval to use forthe integration and coordinate pick up with the DPW Energy manager for imaging (latest Niagara version in use at West Point. Contact DPW Energy Manager for the latest specifications of the computer, with enough lead time prior to the integration work start time, to accommodate the DPW IT schedule as they will be doing the imaging.

c. Integrate BAS through a contractor provided and governmentapproved computer, on site, and NOT remotely, as remote access to the server is not allowed by NEC.

d. Contractors must use government approved computer user account(s)processed by the Energy Branch of DPW. Contact POC, Bass Shakra, for SAAR (DD-2875), the AUP forms, and the Cyber-Awareness Challenge Certificate of the contractor(s) who are going to do the integration of the BAS on the existing server. DPW Energy Manager will process the paperwork through DPW IT, and NEC to create a Niagara user account on the server for the contractor. DPW Energy manager will be "Supervisor" for the contractor, in terms of the basic computer account and the Niagara user account, signing Blocks 17-18 of DD-2875.

e. One-Year Warranty Period starts after the PVT and training, wherethe BAS would be connected to the server and NIPR. During the 50 week warranty period, the controls contractor providing the warranty must be available on site within a reasonable amount of time to address the deficiencies, as remote connection into the BAS with VPN would not be allowed. The reasonable amount of time is determined in compliance with the goal of keeping the BAS operating as specified and accepted by the government, and to cause the least interference with the mission and the government normal business. Unscheduled and unavoidable interference must be coordination with the COR to minimize interrupted service and building occupants' discomfort.

f. Coordinate and schedule with COR for BAS Training of DPW personnel(O&M). Refer to Section 01 78 23 CLOSEOUT SUBMITTALS.

g. Include the following UFGS Specifications but not limited to:

1. Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC.

2. Section 23 09 13 INSTRUMENTATION AND CONTROL DEVICES FOR HVAC.

3. Section 23 09 23.01 LONWORKS DIRECT DIGITAL CONTROL FOR HVAC AND OTHER BUILDING CONTROL SYSTEMS.

4. Section 23 09 93 SEQUENCES OF OPERATION FOR HVAC CONTROL.

5. Section 23 09 33.00 40 ELECTRIC AND ELECTRONIC CONTROL SYSTEM FOR HVAC.

6. Section 23 09 53.00 20 SPACE TEMPRATURE CONTROL SYSTEMS.

7. Section 25 05 11 CYBERSECURITY FOR FACILITY-RELATED CONTROL SYSTEMS.

8. Section 25 08 10 UTILITY MONITORING AND CONTROL SYSTEM TESTING).

9. Section 25 10 10 UTILITY MONITORING AND CONTROLS (UMCS) FRONT END AND INTEGRATION.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

-- End of Section --

UNITED STATES MILITARY ACADEMY
DIRECTORATE OF PUBLIC WORKS
WEST POINT, NY 10996-1592

SOP 11-17
ANNEX V **26 April 2017**

DPW DIG SAFE

1. **PURPOSE:** This SOP will provide a basic understanding of your responsibilities under 16 NYCRR Part 753, (also cited as Industrial Code 53 or Code Rule 53) concerning safe excavation practices and the protection of underground facilities in USMA installations and in New York State. This document is not intended as a legal reference, and does not contain the complete text of 16 NYCRR Part 753.

2. **RESPONSIBILITIES:**

A. REQUESTOR:

1. **Why Call:** It's the law in the state of New York, and it is also a necessary part of planning your work. Reviewing your work and your work area prior to the actual excavation can help save you and this installation from unexpected downtime, loss of revenue and injury.
2. **Requestor Defined**: **ALL** Installation DPW/NEC project managers, DPW Work Leaders and/or Supervisors, COR's and QA Reps that supervise **ANY** excavation requirement on USMA installations. Requestor is to be a government employee who will act as the liaison between the excavation workers (contractors, DPW workers, etc.) and the Dig Safe Coordinator.
3. **Initiate Safe Dig Procedures**: Provides the Dig Safe request form, as well as the necessary information to the coordinator, in the specified time frame. See specific guidelines below (para 3, this SOP)

B. DIG SAFE COORDINATOR:

1. **USMA Dig Safe Coordinator:** Acts as the link between the requestor and the utility system operators at West Point.
2. **Contact Information:** Hours of Operations- Mon – Fri 0800-1600hrs Phone **#:** 845.938.3107
3. **Initial Duties:** Coordinator will receive Dig Safe Permit Requests and enter request control number. Coordinator will then update Dig Safe Permit Request Control Log.
4. **Coordinate:** Once logged, coordinator shall contact utility operators and provide them the information from the requestor to perform mark out of utilities in the requested area.
5. **Issue:** After each utility has performed mark out, coordinator shall issue a signed Dig Safe Permit, any additional notes provided by utilities, and a copy of the Dig Safe SOPs to the requestor.
6. **Response:** Coordinator to receive emergency calls in the event of unidentified/identified utilities are struck. Coordinator to activate the Emergency Reaction System.

C. Utility Operator:

1. **Who:** Maintainers or operators of one or more of the utilities at West Point.
2. **Contact:** Utility operators are contacted by the Dig Safe Coordinator after a request is processed.
3. **Duties:** Utilizing the information provided by request, operators are to mark the locations of the utilities in that area. Any discrepancies or additional information (shallow depth of utilities, utilities unmarked or unable to be located, known abandoned utilities) should be included in the return form to the Coordinator.

3. DIG SAFE PROCEDURES:

A. REQUESTOR:

1. **When:** No less than **10 Working Days prior** to planned excavation, submit Dig Safe request (Appendix 1, DPW, SOP 11-17, Annex V) to Dig Safe Coordinator (BOID, 845.938.3107, 3rd Floor, Bldg 667A.
2. **What:** Submit request form, a map of the area of the excavation indicated the specific location of the dig, and any other relevant information if possible.
3. **Site:** The actual site shall be indicated with "white" markings and/or flags prior to submission of the Dig Safe Request. The requestor is to ensure the maintenance of the markings of the site, including the identification markings of the utility operators once the Dig Safe Permit is issued.
4. **Notifications:** If the markings begin to degenerate, Requestor should contact Dig Safe Coordinator. **If the markings are not visible at any time, the Requestor shall prohibit ANY excavation from occurring. NO MARKINGS = NO DIGGING.**
5. **Verification:** Once notified by Coordinator that Dig Safe has been approved, Requestor shall receive Dig Safe Permit and verify information contained within as well as site readiness.
6. **Safety:** Requestor to ensure that all safety procedures are being followed, (Appropriate hard hats and PPE being utilized, emergency telecommunications are in place, safety harnesses being used, etc.) prior to excavation work beginning.
7. **Monitor:** Requestor shall monitor the excavation to ensure that Dig Safe guidelines are followed and that the markings are maintained. This shall be coordinated with the Dig Safe Coordinator.
8. **Notifications:** Requestor shall immediately notify Dig Safe Coordinator and appropriate O&M representative in the event that any utility is struck. Requestor shall notify Dig Safe Coordinator in the event that an undocumented utility is discovered. Requestor is to notify Dig Safe Coordinator upon completion of the excavation work for which the Dig Safe Permit is issued for, if multiple Dig Safe Permits are issued for a project, Requestor shall notify Coordinator as each individual permit is completed.

B. DIG SAFE COORDINATOR:

1. **Receives:** Receives Dig Safe Permit Request and associated information from Requestor.
2. **Verifies**: Coordinator to verify that Dig location has been marked (in white) IAW submitted map on or one working day before the permit request is transmitted to the Utility Operators. This is to be done by the coordinator or by their designated representative.
3. **Transmit:** Location of excavation and associated information to be transmitted to utility operators (includes NEC) **within 3 working days of receiving permit request.**

4. **Collaborate:** Receives responses from each Utility Operator that their respective utilities have been marked IAW Appendix 2 of this SOP, and retains any related notes and information from the Utility Operators to return as part of the Dig Safe Permit. This is to be completed **within 9 working days of receiving permit request.**
5. **Notify Requestor:** Coordinator to notify Requestor that Excavation site has been properly marked, and that the Signed Permit and any additional information is completed. This is to be completed **within 10 working days of receiving permit request.**
6. **Cross Verify:** Coordinator to check and verify against DPW Building Permit(s) to insure requestor is seeking a Building Permit as required and where appropriate.
7. **Monitor:** Excavations are to be monitored either telephonically, on site, or UHF/VHF with the requestor and DPW Safety Officer (x 8508)
8. **Process:** Any emergency responses needed by the fire department, DPW Operations or utility operators are to be made with notification to the Coordinator as appropriate. Discovery of undocumented utilities is to be made to proper Utility Operator through Coordinator.
9. **Close Out:** Once notified of completion of excavation, Coordinator to file and save Dig Safe Permit and any additional information from the Utility Operators and/or Requestor.

C. DPW UTILITY OPERATORS AND NEC:

1. **Receive:** Notification and excavation location to be sent from Coordinator to Utility Operators
2. **Marking: Utility Operators to appropriately mark locations of respective utilities** with color marking IAW Appendix 2 of this SOP, **within 5 working days of the Utility Operator receiving the request from the Coordinator.** Coordinator to be informed of completion of this task **within 6 working days of the Utility Operator receiving the Dig Safe request.**
3. **Monitor:** In the event that a utility is struck or an undocumented utility is discovered, Utility Operator will be contacted and should respond accordingly.

D. DPW OPERATIONS DIVISION:

1. **DPW Safety Officer:** Becomes alternate POC for the Dig Safe Coordinator.
2. **Cross Check**: Building Permit application and process.
3. **Monitor**: All dig safe procedures and activities.

Matthew G. Talaber, RA
Director, DPW
West Point

APPENDIX 1 (DIG SAFE PERMIT TO SOP 11-17 ANNEX V dated 25 April 2017

APPENDIX 2 (APWA Uniform Color Code; For Marking Underground Utility Lines)

(REQUEST SHOULD BE SUBMITTED NO MORE THAN 30 DAYS PRIOR TO BREAKING GROUND)

REQUESTOR WILL MARK EXCAVATION AREA WITH WHITE FLAGS PRIOR TO SUBMITTAL.
REQUESTOR IS RESPONSIBLE TO MAINTAIN MARKINGS FOR DURATION OF PROJECT.
UPON RECEIPT OF COMPLETED DIGSAFE PACKET (PERMIT, GIS MAP, AND APPROVED DA 4283) THE PROCESS, TO INCLUDE MARKOUTS, WILL TAKE 10 BUSINESS DAYS FOR COMPLETION.

SUSPENSE DATE:

DIG-SAFE REQUEST DATE:

PERMIT NUMBER:

REQUESTOR POC:
PHONE:
DA 4283 (IJO NUMBER):
LOCATION OF DIG:
REASON FOR DIG:
MAP/SKETCH ATTACHED: YES:☐ NO:☐
DATE MARKED OUT:
ANTICIPATED DIGGING DEPTH:
ANTICIPATED DIGGING DATE:

= = = = = = = = = = == = = = = = = = == == =

(TO BE COMPLETED BY DIG SAFE COORDINATOR)

DIG-SAFE CLEARED THROUGH: (SHOP FOREMAN INITIAL AND DATE WHEN FINISHED)

ELECTRIC (RED):☐
MAIN SEWERS (GREEN):☐
STEAM (YELLOW):☐
AGRONOMIST (PURPLE):☐
MAIN STORM (LITE BLUE):☐

GAS (YELLOW)☐
SIGNAL (ORANGE)☐
WATER (BLUE):☐
CULTURAL RESOURCE: (PURPLE)☐

REQUESTOR OF DIG-SAFE PERMIT IS REMINDED THAT WHILE ALL KNOWN UTILITIES ARE MARKED, THESE MARKINGS ARE ONLY AS CLOSE AS REASONABLE. EXTREME CARE MUST BE EXERCISED WHEN EXCAVATING CLOSE TO EXISTING UTILITIES. REQUESTOR SHALL COMPLY WITH THE PROVISIONS OF 29 CFR 1926, SUBPART P-EXCAVATIONS, THE OSHA EXCAVATION STANDARDS.

CLEARED BY: DATE:

BOID, WORK MANAGEMENT BRANCH CHIEF

NOTIFY DIG SAFE COORDINATOR @ 3107 WHEN DIG IS COMPLETE.

SPECIAL INSTRUCTIONS: ____
____
____
____
____
____

EFFECTIVE 26 APRIL 2017 (All other dig-safe forms are obsolete)

***** NO EXCAVATION OF ANY KIND IS TO BE PERFORMED PRIOR TO OBTAINING A SIGNED DIG SAFE PERMIT *****

UTILITY OPERATOR DIG SAFE MARK OUT VERIFICATION FORM

REQUESTOR WILL MARK EXCAVATION AREA WITH WHITE FLAGS PRIOR TO SUBMITTAL. REQUESTOR IS RESPONSIBLE TO MAINTAIN MARKINGS FOR DURATION OF PROJECT. UPON RECEIPT OF COMPLETED DIGSAFE PACKET (PERMIT, GIS MAP, AND APPROVED DA 4283) THE PROCESS, TO INCLUDE MARKOUTS, WILL TAKE 10 BUSINESS DAYS FOR COMPLETION.

UTILITY OPERATOR FILLING OUT FORM:

ELECTRIC:		GAS:		CULTURAL RESOURCES:	
MAIN SEWERS:		SIGNAL:		AGRONOMIST:	
STEAM:		WATER:		MAIN STORM:	

HOW UTILITIES ARE MARKED:

FLAGS		PAINT		BOTH	

ARE ALL UTILITIES FULLY MARKED AND INDICATED:

YES		YES, NO UTILITIES IN AREA INDICATED ON MAP	
NO, UNABLE TO LOCATE ANY UTILITIES		PARTIAL, SEE NOTES BELOW	
		ADDTL INFO ATTACHED	

NOTES: _____

_____

_____

_____

_____

_____

_____

APWA UNIFORM COLOR CODE

For Marking Underground Utility Lines

WHITE	PROPOSED EXCAVATION MARKERS
GREEN	SEWERS & DRAIN LINES
RED	ELECTRIC
YELLOW	GAS, STEAM, PETROLEUM
ORANGE	COMMUNCATION, SIGNAL
BLUE	WATER
PURPLE	AGRONOMIST & CULTURAL RESOURCES

DPW GUIDELINE: Integration of BAS on the Server in Major Renovation and New Construction Projects

DPW Director Brief

11 July 2022

Bass Shakra, PhD, CEM
Energy Branch, DPW

BAS Integration Guideline

Summary

- The New Construction/Major Renovation contracts would have to be clear that Full Integration of Controls on the main server by the construction BAS contractor, commissioned under the USACE supervision, is required prior to the project delivery and acceptance by West Point.

- This would assure DPW that West Point won't end up with a building with a stand-alone BAS where a new contractor should be hired to do the integration on the server; which would result in instances where the integration contractor tells DPW that the design and implementation of the controls has many flaws (wiring, placement of sensors, sequences of operation, controls logics,...) and need to be modified, etc. (example, the Bartlett Hall debacle).

BAS Integration Guideline

1. The design specifications of the designer of record, should include and follow the following UFGS Divisions:
   UFGS Division 23 09 00, 13, 23, 33, 53, 93 (Instrumentation and Control for HVAC).
   UFGS Division 25 05 11 (Cybersecurity for Facility-Related Control Systems).
   UFGS Division 25 08 10 (Utility Monitoring and Control System Testing).
   UFGS Division 25 10 10 (Utility Monitoring and Controls (UMCS) Front End and Integration).
   UFC 4-010-06 (Cybersecurity of Facility-Related Controls Systems)).

2. The Integration of the BAS has to be done through a government computer, on site, and NOT remotely, as remote access to the server is not allowed by NEC.

3. Contractors need to get their government computer user account(s) processed by the Energy Branch of DPW. Currently, Bass Shakra, is the POC, who should be receiving the SAAR (DD-2875) and the AUP forms, along with the Cyber-Awareness Challenge Certificate of the contractor(s) who are going to do the integration of the BAS on the existing server. Bass Shakra would process the paperwork through DPW IT, and NEC, and once everything is cleared, Bass would create a Niagara user account on the server for the contractor. Bass would also act as the "Supervisor" for the contractor, in terms of the basic computer account and the Niagara user account, signing Blocks 17-18 of DD-2875.

4. For the latest specs of the computer that will be used for the integration, USACE would reach out to Bass Shakra ahead of time since computer technologies do change at a fast pace. The computer with the correct specs would then have to be delivered to Bass Shakra who would take it to the DPW for imaging (latest Niagara version in use at West Point). Once imaged, USACE would pick up the computer from Bass Shakra.

BAS Integration Guideline

5. After the deployment of all the hardware and software of the BAS components, **Two-Weeks of continuous commissioning** (testing), during which all the controls glitches and shortcomings have been figured out, fixed and tested, to make sure the BAS is fully functional, and successfully so. The two week depends on the size of the project and be shorter or longer.

6. After the two-weeks of testing, the **Integration** of all the JACEs on the server starts. The Integration of the BAS has to be done through a government computer, on site, and NOT remotely, as remote access to the server is not allowed by NEC.

7. After the integration work is completed, a **PVT** should be done under the supervision of USACE, and a demonstration of the controls features on the server will be given by the contractor to the DPW O&M and energy managers, and USACE reps (a formal Brief), along with a Training session. UFGS 25 10 10 notes that a *Refresher Training should be timed to take place near the end of the 1-year warranty period.*

8. At this stage, the project tasks can be considered officially completed, and the project is officially delivered to, and accepted by, DPW.

9. A **1-Year Warrantee Period** starts after the PVT and training, where the BAS would be connected to the server and NIPR. During the 50 weeks warrantee period, the controls contractor providing the warrantee would have to be available on site within a reasonable amount of time to address the deficiencies, as remoting into the BAS with VPN would not be allowed. The reasonable amount of time is determined in compliance with the goal of keeping the BAS operating as specified and accepted by the government, and to cause the least interference with the mission and the government normal business. In cases with interference is unavoidable, coordination with the government is required to minimize interrupted service and building occupants discomfort.

Bass A. Shakra / DPW / (845) 938-7172 / bass.a.shakra.civ@army.mil

BAS Integration Guideline

Quoted References

With regard to the Warranty Period and Cybersecurity, **UFGS 25 05 11** notes the following:

All work performed on the control system after acceptance must be performed using Government Furnished Equipment or equipment specifically and individually approved by the Government.

With regard to Remote Access to the BAS, **UFC 4-010-06** Cybersecurity of Facility-Related Controls Systems, in its Minimum Cybersecurity Requirement (Chapter 4) notes the following:

Do not provide remote access to the control system. If required, remote access to the Level 4 network should be provided by the Platform Enclave or the site IT organization. Coordinate remote access requirements with the project site IT organization, and with the Army - ICS Cybersecurity Center of Expertise, Huntsville Engineering and Support Center.

With regard to the Service Call Work Warranty, **UFGS 25 10 10** notes the following:

Provide a [1 year] [_____] unconditional warranty on service call work which includes labor and material necessary to restore the equipment involved in the initial service call to a fully operable condition. In the event that service call work causes damage to additional equipment, restore the system to full operation without cost to the Government. Provide response times for service call warranty work equivalent to the response times required by the initial service call.

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SECTION 01 14 00

WORK RESTRICTIONS
11/11

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

List of Contact Personnel

1.2 SPECIAL SCHEDULING REQUIREMENTS

a. Have materials, equipment, and personnel required to perform the work at the site prior to the commencement of the work.

b. Cullum Road and the access way behind Lincoln Hall will remain in operation during the entire construction period. The Contractor must conduct his operations so as to cause the least possible interference with normal operations of the activity. Roadway construction must maintain two lanes of travel when possible. Coordinated with the Contracting Officer any potential lane closures 15 days in advance of construction blockage.

c. Permission to interrupt Activity roads, (i.e. Cullum Road and access roads) or utility service must be requested in writing a minimum of 15 calendar days prior to the desired date of interruption.

1.3 CONTRACTOR ACCESS AND USE OF PREMISES

1.3.1 Visitor Access/Contractor Badging

See (attached) the Local Area Credential Application (LARC) request. Complete these forms and submit at the West Point Visitors' Center. Ensure that COR information is included on the LAC request form. Failure to obtain entry approval of contractor and subcontractor employees will not affect the contract price or period of performance.

Visitor Policy/Badging

a. All visitors must follow the visitor policy shown at the address below. This must be filled out by all contractors in order to receive a contractor’s badge.

b.
https://home.army.mil/westpoint/index.php/about/visitor-information

c. All vehicles and personnel are subject to search at gate to

the installation. All foreign nationals shall be escorted by a CAC holder at all times.

1.3.2 COVID-19 Requirements

The United States Army Garrison West Point (USAG WP) and the United States Army Corps of Engineers New York District (USAGE NY) signed a Memorandum of Agreement (MOA) to facilitate installation access to Contractors. This MOA will be provided to the Contractor together with the Notice to Proceed (NTP). After receiving the MOA from the Contracting Officer, proceed as described below:

a. Contractors entering West Point must report to the Visitor's Control Center (VCC) and present their credentials to include employment verification with the contracted company, a completed USACE Contractor COVID screening survey, and a copy of the MOA.

b. After visitor pass issuance, present the pass and MOA and additional COVID mitigation paperwork to the security guard or military police (MP) at the gate to gain access. Once on the installation, Contractors must adhere to West Point guidance pertaining to COVID-19 and must not interact with the Cadets or general public to the greatest extent possible, including limited use of the on-post facilities.

c. The MOA may be terminated at any time by USAG WP in the event of a health emergency on the West Point Installation. The MOA may also be terminated at any time upon the mutual written consent of USAG WP and USAGE NY.

Contractor and Contractor personnel must complete and present the attached West Point COVID-19 Screening / USACE Approved Contractors form.

1.3.3 Construction Vehicle Access

Installation access for construction vehicles through Stoney Lonesome Gate only.

All vehicles and personnel are subject to search at gate to the installation. All foreign nationals shall be escorted by a CAC holder at all times.

No contractors are to park outside of or adjacent to the construction fence at any time during the project.

Installation Policy Letter

Adhere to West Point Policy Letters at https://home.army.mil/westpoint/index.php/about/b-troop-leadership

All policy letters must be reviewed by the Contractor. Ensure compliance with policy letter 42 & 43, daily. (See Attached)

1.3.4 Activity Regulations

Ensure that Contractor personnel employed on the Activity become familiar

with and obey Activity regulations including safety, fire, traffic and security regulations. Keep within the limits of the work and avenues of ingress and egress. Wear appropriate personal protective equipment (PPE) in designated areas. Do not enter any restricted areas unless required to do so and until cleared for such entry. Mark Contractor equipment for identification.

1.3.4.1 Subcontractors and Personnel Contacts

Provide a list of contact personnel of the Contractor and subcontractors including addresses and telephone numbers for use in the event of an emergency. As changes occur and additional information becomes available, correct and change the information contained in previous lists.

1.3.4.2 No Smoking Policy

Smoking is prohibited within and outside of all buildings on installation, except in designated smoking areas. This applies to existing buildings, buildings under construction and buildings under renovation. Discarding tobacco materials other than into designated tobacco receptacles is considered littering and is subject to fines. The Contracting Officer will identify designated smoking areas.

1.3.5 Working Hours

Regular working hours will consist of an 8 1/2 hour period between 7 a.m. and 3:30 p.m., Monday through Friday, excluding Government holidays unless otherwise approved by the Contracting Officer.

1.3.6 Work Outside Regular Hours

Work outside regular working hours requires Contracting Officer approval. Make application 15 calendar days prior to such work to allow arrangements to be made by the Government for inspecting the work in progress, giving the specific dates, hours, location, type of work to be performed, contract number and project title. Based on the justification provided, the Contracting Officer may approve work outside regular hours. During periods of darkness, the different parts of the work must be lighted in a manner approved by the Contracting Officer.Refer to the Utility Cutovers and Interruptions paragraph, item c. for more info on cutover requirements.

1.3.7 Exclusionary Period

No work may be performed during the period associated with the activities listed below without prior written approval of the Contracting Officer. These periods have s not been considered in computing the time allowed for the performance of this contract.

a. Graduation Week: Three days in May 2022, May 2023 and so forth.

b. Reception Day: One day in July 2022, July 2023 and so forth.

c. Exam week(s): One week in May 2022, May 2023, May 2024, Dec 2022, Dec 2023 and so forth.

d. All Government Holidays: Eleven (11) days per Calendar year.

e. Football Home Games: Five (5) home football games per year. Exact dates will be furnished to the Contractor on request in the year that

they will occur.

f. The Contractor should anticipate six (6) additional days each calendar year on which no physical work must be performed. These will be at the Governments discretion. The actual "No Work" days will be confirmed by the Government during the work phase in conjunction with the construction plan approval. The Contractor's schedule must reflect the above anticipated "no work" days. These dates ARE considered in computing the time allowed for the performance of this contract.

1.3.8 Adverse Weather

Contractor is to adhere to the Installation's Adverse Weather Policy. On-site construction is not allowed during CODE RED and these times/days are to be considered adverse weather days as described by the contract. Contractor may work during CODE WHITE. Refer to USMA Adverse Weather Policy (Attached).

1.3.9 Occupied Buildings

The Contractor must be working around existing buildings which are occupied. Do not enter the buildings without prior approval of the Contracting Officer.

The existing buildings and their contents must be kept secure at all times. Provide temporary closures as required to maintain security as directed by the Contracting Officer.

Provide dust covers or protective enclosures to protect existing work that remains, and Government material located in the project site during the construction period.

Leave attached equipment in place, and protect them against damage, or temporarily disconnect, relocate, protect, and reinstall them at the completion of the work.

1.3.10 Utility Cutovers and Interruptions

a. The Contractor is advised that the existing utilities service other buildings or areas adjacent to the specific work sites. These buildings will be active and utilized for the entire period of this contract. The Contractor must maintain all utilities and systems operational at all times except outages approved by the Contracting Officer.

b. All utility outages must be scheduled by the Contractor and approved by the Contracting Officer in coordination with the system Government, USMA DPW and/or Privatized Utility provider. No outage will be approved which will adversely affect the current operation or mission accomplishment. Outages must only be approved to perform tie-ins of new or temporary utilities to existing lines. Steam outages during the heating season must be minimized. "Live"/"hot" utility connections must be used whenever possible as to minimize end user down time. At USMA, electric service, water and wastewater services have been privatized and that entity will be responsible for all utility outages, disconnects and connections. Contractor must submit a written work plan and have it approved by the Contracting Officer 30 days prior to planned outage to ensure proper union notification. The Contractor must also be responsible for any repairs or start-up

procedures in the affected facilities caused by the outages. The Contractor must coordinate with the Contracting Officer and representatives of the Installation regarding the work that the Contractor must accomplish in various buildings to re-establish the utilities to proper working conditions. The request for the approval of a utility outage must include, at minimum, the following: description of the utility; time and duration of the outage; areas and systems affected; proof that all preparatory work is complete; proof that all necessary materials, equipment and manpower are in place; utility lines have been verified; and a contingency plan is in place.

c. Utility outage work must be scheduled at the convenience of the Government. Night and weekend work may be required and should be anticipated by the Contractor.

d. The Contractor must have on-site all materials, equipment, manpower, etc. to complete all work during the approved duration of the outage. All utilities and systems must be fully tested and operational prior to the end of the approved outage. Unscheduled outages must be repaired immediately. Repairs and corrective actions must proceed continuously in a diligent manner until all services and utilities are restored to their original condition.

1.3.11 AT/FP-IDENTIFICATION FOR CONTRACTOR PERSONNEL

For Contractors that do not require CAC, but require access to a DoD facility or the installation, the Contractor and all associated sub-contractors employees must comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (TSDB) (Army Directive 2014-05/AR 190-13). This is also for all employees who will be entering Army-controlled installations or facilities (Central Area/Restricted area). Applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative) must be adhered to. Documentation of these checks will be made available to the COR and security personnel upon request.

The company will ensure that its employees entering Army-controlled installations or facilities have obtained local access badges and passes (if required) in accordance with facility regulations and that these badges and passes are obtained in advance so as not to delay the accomplishment of contracted services.

The company will return all issued U.S. Government Common Access Cards, installation badges, and/or access passes to the COR when the contract is completed or when a Contractor employee no longer requires access to the installation or facility.

1.3.12 DOD Level 1 Antiterrorism (AT Standards Clause (as of 1 july 14)

When annotated on the AT/OPSEC cover sheet Contractors are required to complete this training.

a. Pursuant to Department of Defense Instruction Number 2000.16, "DoD Antiterrorism (AT) Standards," dated October 2, 2006, each Contractor employee requiring access to a Federally-controlled installation, facility and/or Federally-controlled information system(s) must complete Level I AT Awareness Training on an annual basis and receive

a certificate of completion. The training is accessible from any computer and is available at http://jko.jten.mil/ follow the below instructions:

1. Click - DOD CAC or No DOD CAC
2. Next click - I am a U.S. mil, government civil servant, or contract employee
3. Next click - I've been directed to take required training on JKO
4. Next click - Courses
5. I do not have a .MIL, .GOV, or .NDU.EDU address or I am a Multi-National Student
6. Fill out the contact sheet and email to sponsor (COR)
7. Sponsor (COR) will email to the JKO help desk

When annotated on the AT/OPSEC cover sheet Contractors are required to complete this training.

a. iWATCH Training: The Contractor must brief all personnel performing work under this contract on the local iWATCH program training standards provided by the requiring activity Antiterrorism Office (ATO). This local developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training must be completed within 30 calendar days of contract award with the results reported to the COR NLT 45 calendar days after contract award. New employees/Contractors must complete the training within 10 calendar days of commencing performance of work under this contract.

The COR and Contractor are responsible for ensuring that all applicable employees have completed antiterrorism awareness training and must certify that their workforce has completed the training through the submission of completion certificate(s) to the Contracting Officer and the Contracting Officer's Representative (if appointed) within five working days after contract award or prior to access to a Federally-controlled installation or information system.

a. In the event that the automated system is not available (e.g., server problems), Level I AT Awareness Training can be provided by a qualified instructor. However, if the training is not completed online, the Level I AT Awareness Instructor qualification must be coordinated with the Installation Antiterrorism Officer (or Installation Security equivalent) and the resultant name(s) of approved instructors must be provided the contracting officer or designee along with all associated cost or schedule impacts to the contract.

b. Antiterrorism performance (Level I AT Awareness Training attendance and compliance) may be documented as a performance metric under the resultant contract, and be part of past performance information in support of future source selections.

c. Documentation of this training will be made available to the Installation Antiterrorism Officer upon request.

1.3.13 Contracting Officer Representative (COR) As Required

a. Will ensure that all Contractors/subcontractors are processed for a background check or National Agency Check with Inquiry (NACI) as needed. The background check is the minimal investigation to be

adjudicated for a USMA Identification Card (Local Access Badge) versus the NACI, which requires fingerprinting and submission of EQIP. NACIs are required for Contractors/subcontractors that require a CAC and/or government computer accounts.

b. Will ensure that the USMA Form 13-16, Personnel Background Check, is correctly completed and signed by the COR who is a properly cleared Federal Employee.

c. Will ensure that the USMA Form 13-16, Personnel Background Check, is submitted within 10 days prior to personnel starting projects on West Point, depending on when contract is awarded and work is scheduled to start. Waivers are made for the 10 day suspense on a case by case basis, in emergency situations as needed only.

d. Will ensure that all identified Contractors requiring a CAC and/or government computer access, submit fingerprints and complete a NACI investigation submission via EQIP, prior to being issued a CAC and/or given access to the government computer network.

e. Will ensure that all government issued identification and vehicle stickers are confiscated from Contractors/subcontractors upon termination of employment or end of project. These items will be returned to MPD and DES.

f. Will ensure that all Contractors requiring access to the Installation have completed antiterrorism awareness training and must certify that their workforce has completed the training through the submission of completion certificate(s) to the Contracting Officer.

1.3.14 Force Protection Conditions (FPCON's) Clause

a. During higher Force Protection Conditions (FPCON's) Contract personnel are required to comply with all Antiterrorism policies and procedures while on the installation. Contract personnel may be directed to enter the installation through certain access control points where they can best be identified and searched. Contractor personnel may be prohibited from certain portions of the installation during exercises and actual emergencies.

b. Contractors will comply with parking restrictions and will not park in unauthorized parking areas or within 82 feet of an inhabited building when directed.

c. Access control roster (personnel and vehicles) must be provided. Names/vehicles verified by the company and received background screening. Substitutes receive same vetting process prior to work.

d. All Contractor personnel and vehicles are subject to search while on the installation.

e. In the event of an identified restricted/exclusion area, the Contractor personnel will not be authorized without specific permission or an escort.

f. Access may be denied during increased readiness or Force Protection Conditions (FPCON's).

g. Alien Employment: The Contractor must not employ any alien who does

not have a valid US Immigration I-551 or I-94. The Contractor must provide valid social security numbers and citizenship status of all employees to the
Government, upon request.

1.3.15 E-Verify

E-Verify is an Internet based system operated by the Department of Homeland Security (DHS) in partnership with the Social Security Administration (SSA) that allows participating employers to electronically verify the employment eligibility of their newly hired employees. E-Verify is currently free to employers and is available in all 50 states. E-Verify provides an automatedlink to federal databases to help employers determine employment eligibility of new hires and the validity of their Social Security numbers. E-Verify are the best means for determining employment eligibility of new hires and the validity of their Social Security numbers.

Contractors must use E-Verify on all employees that will be working on this installation, under this contract. This must be done prior to the employee starting work on the installation.

For E-Verify information: https://www.e-verify.gov/ or call 1-888-464-4218

The United States Government has adopted a zero tolerance policy regarding trafficking in persons. Additional information about trafficking in persons may be found at the website for the Department of State's Office to Monitor and Combat Trafficking in Persons' at https://www.state.gov/bureaus-offices/under-secretary-for-civilian-security-democracy-

Government contracts must -

a. Prohibit Contractors, contractor employees, subcontractors, and subcontractor employees from -

   (1) Engaging in severe forms of trafficking in persons during the period of performance of the contract;

   (2) Procuring commercial sex acts during the period of performance of the contract; or

   (3) Using forced labor in the performance of the contract;

b. Require Contractors and subcontractors to notify employees of the prohibited activities described in paragraph (a) of this section and the actions that may be taken against them for violations; and

c. Impose suitable remedies, including termination, on Contractors that fail to comply with the requirements of paragraphs (a) and (b) of this section. Remedies can be applied to any one of the employees and any supplier or delivery service and all similar type of personnel connected to the project and contract.

1.3.16 West Point Parking Policy

Ensure The Contractor understand and adheres to the U.S. Army Garrison West Point Policy #11. See Section 01 50 00 TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS for more information.

The COR overseeing the contract will review and coordinate all contractor pass requests. Parking requires compliance with all contract documents and attachments.

a. Parked illegally.

b. Interfering with operations.

c. Creating a safety hazard.

d. Left unattended in a restricted or controlled area.

e. Parked in a Central Parking Area (CPA) lot without the proper CPA Pass.

f. Parked in a reserved space authorized by the Installation Commander.

g. Disabled as the result of an accident and left at the scene.

The COR overseeing the contract will review and coordinate all Contractor pass requests. Parking requires compliance with all contract documents and attachments.

1.4 SITE AND BUILDING SECURITY AND VEHICLE IDENTIFICATION

a. The Contractor must be responsible for the security of the areas within the contract limits. When the Government takes possession of certain areas, the Contractor must be responsible for the areas remaining under Contractor control.

b. The Contract must maintain continual base security with personnel security guard and temporary fences. Wherever there are fence disruptions due to the construction of this project, the Contractor must continually monitor and maintain the fence.

c. The Contractor must be responsible for furnishing an identification required by West Point Military Academy to each employee in accordance with paragraph titled AT/FP - Identification for Contractor Personnel. The Contractor must provide an updated list of all employees working on the site. This list must be provided on a monthly basis or when requested by the Contracting Office throughout the duration of this contract.

d. The Contractor must be responsible for requiring each employee engaged on the work to display such identification as may be approved and directed by the Contracting Officer. All prescribed identification must immediately be delivered to the Contracting Officer for cancellation upon release of any employees. When required by the Contracting Officer, the Contractor must obtain and submit fingerprints of all persons employed or to be employed on the project.

e. The Contractor and subcontractors must register all company and private vehicles that will be used in the execution of this contract with the Installation Provost Marmust's office prior to start of work by the Contractor/subcontractor.

f. Entry to the installation requires the following prior coordination with the Contracting Officer or designated representative; current vehicle registration, proof of insurance, valid driver's license for the vehicle driver, and procure identification for other personnel.

Contractors/Subcontractors and their employees requiring access to the installation will be required to comply with the installation access control policy/procedures. The government will not be responsible for damages due to delay/stoppages caused by failure to comply. Failure to obtain entry approval of Contractor and subcontractor employees will not affect the contract price or period of performance.

g. All vehicles and personnel are subject to search and seizure of contraband and/or unauthorized government property. Contractor vehicles (Contractor-owned and personal), Contractor personnel, and their personal property must be subject ot searches upon entering of leaving the installation. The search and seizure provisions of AR 190-22 must apply to Contractor personnel entering or leaving West Point Military Academy.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

West Point Local Area Credential Application

Local Area Credential Requested: □ Alumni □ Guest □ Visitor □ Contractor □ Delivery

Administrative Data

Last Name: _____ First Name: _____ MI: ____

Gender: □ Male □ Female Date of Birth: _____ SSN: _____-_____-_____

Driver's License Number: _____ State: _____

Current Street Address: _____

City: _____ State: _____ Zip Code: _____

Phone Number: _____ Email Address: _____

Height: _____ Weight: _____ Hair Color: _____ Eye Color: _____

Contractor/Sponsor Information

Project/Contract: _____

Employer: _____ Supervisor: _____

Sponsor Information: _____ COR: _____

COR Phone Number: _____COR Email Address: _____

Criminal History

Have you been convicted of a crime in the past 10 years: □ Yes □ No □ Don't Know

If Yes, what type: □ Misdemeanor □ Felony □ Other □ Don't Know

If Yes, explain: _____

_____

_____

For Administrative Use Only

Received By: _____ Received Date: _____

NCIC Date: _____ NCIC Request #: _____ Badge Issued: □ Yes □ No

If No Why: _____

If Yes- Issue Date: _____ Expiration Date: _____ Badge #: _____

Privacy Act Statement Authority HSPD-12:

Principal Purpose: to record names, signatures and other identifiers for the purpose of validating he trustworthiness of individuals requisition access to West Point, New York. Records may be maintained in both electronic and paper form.

Routine Uses: None

Disclosure: Disclosure of the information is voluntary however, failure to provide any of the requested information my impede, delay or prevent further processing of this request.

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CIVILIAN PERSONNEL BULLETIN

UNITED STATES MILITARY ACADEMY
WEST POINT,
NEW YORK 10996

28 October 2016 Number 17-03

DUTY STATUS AND LEAVE DURING ADVERSE WEATHER SITUATIONS

1. USMA Policy 40-03, Leave During Adverse Weather

It is the policy of the United States Military Academy to remain open during adverse weather conditions and to continue full operations in support of the mission. When roads are closed or treacherous because of adverse weather, the Garrison Commander or his designee may decide to implement, USMA Policy 40-03, Leave During Adverse Weather.

2. Accurate and up to date official Status information

You are encouraged to utilize 938-7000, the Garrison homepage (www.westpoint.army.mil), and the Garrison Facebook page (https://www.facebook.com/USAGWestPoint/?fref=ts) for accurate and up to date official information. As a convenience, the following radio stations will provide unofficial information at regular intervals starting on or about 6:00 a.m. when adverse weather conditions develop during non- working hours.

RADIO STATIONS					
WFAN-AM	660	KHz	WRRV-FM	92.7	MHz
WABC-AM	770	KHz	WQXR-FM	96.3	MHz
WCBS-AM	880	KHz	WHUD-FM	100.7	MHz
WRKL-AM	910	KHz	WNEW-FM	102.7	MHz
WTBQ-AM	1110	KHz	WGNY-FM	103.1	MHz
WGNY-AM	1220	KHz	WFAS-FM	103.9	MHz
WFAS-AM	1230	KHz	WAXB-FM	105.5	MHz
WRCR-AM	1300	KHz	WWXY-FM	107.1	MHz
WALL-AM	1340	KHz	WLNA-AM	1420	KHz
TV STATIONS					
WCBS-TV Ch 2			WNYW-TV Ch 5		
WNBC-TV Ch 4			WABC-TV Ch 7		
TV CH 8 AND 23 COMMAND INFORMATION CHANNEL					

3. NON-EMERGENCY POSITIONS

The following policy applies to: Appropriated Fund (AF) Employees in non-emergency positions only.

ANNOUNCEMENTS

During adverse weather conditions, announcements will be made as follows:

CODE WHITE

"West Point is CODE WHITE (All Day, Delayed Arrival, or Early Departure)." This announcement means employees have the option for UNSCHEDULED LEAVE or UNSCHEDULED TELEWORK. Employees must notify their supervisor of their intent to take unscheduled leave, or to perform unscheduled telework as defined in the employee's individual telework agreement. Employees scheduled to telework on the day of the announcement are expected to begin telework on time or request unscheduled leave.

or

CODE RED Until XX

"West Point is CODE RED until XX (Delayed Arrival)." This announcement means employees will be granted excused absence (administrative leave) for up to the designated number of hours past their normal arrival time. Employees on pre-approved leave for the entire workday or employees who were granted unscheduled leave for the entire workday should be granted excused absence for the duration of the Code Red. Employees scheduled to telework on the day of the announcement are expected to begin telework on time or request unscheduled leave.

or

CODE RED at XX HOUR

"West Point is CODE RED at XX HOUR (Early Dismissal)." This announcement means that non- emergency employees should depart earlier than their normal departure time from work and may request UNSCHEDULED LEAVE or UNSCHEDULED TELEWORK to leave prior to the early departure time.

Or

CODE RED ALL DAY

"West Point is CODE RED ALL DAY." This means that emergency employees are expected to report for work on time. Non-emergency employees (including Appropriate Fund employees on pre- approved paid leave) will be granted excused absence (administrative leave) for the number of hours they were scheduled to leave, unless:

- The employee is required to telework
- The employee works or is on official travel outside of the West Point area
- The employee is on leave without pay
- The employee is on an alternative work schedule

Employees on pre-approved leave for the entire workday or employees who were granted unscheduled leave for the entire workday should be granted excused absence for the entire day. With supervisory approval, a telework-ready employee may telework, as defined in the employee's telework agreement.

4. When adverse weather conditions develop

The Garrison Commander or his designee may decide to institute the Leave During Adverse Weather Policy for Employees who are on duty at the time of the dismissal. Such decisions will be conveyed to all Activity Directors who are responsible for notifying all activities under their control.

5. EMERGENCY POSITIONS

The procedures in paragraph three above do not apply to employees in positions designated as emergency. These employees will always make a valid attempt to reach the Work site on time during emergency weather situations. Employees who make a valid attempt, but do not reach the work site on time, will be given consideration for any tardiness due to road conditions and will, generally, not be penalized for conditions beyond their control. Employees in emergency positions who are at work during a snow emergency will normally be required to remain for their entire tour of duty and may be needed to remain for overtime or to cover additional shifts. Employees in emergency positions are so notified in writing.

6. Supervisors

Supervisors are encouraged to discuss this policy with each employee. Any questions concerning the designation of your position as weather essential, or non-weather essential, should be discussed with your supervisor.

7. CIVILIAN ON-SITE TRAINING CLASSES

Civilian on-site training classes will be postponed when Code Red is in effect. Participants will be notified of the rescheduled date as soon as arrangements are made. Classes may be postponed in other cases. The proponent of the class will communicate the status of the class to the registered attendees.

8. For further guidance, please see below.

Appropriated Fund Employees CPAC…….....	938-3943
Non Appropriated Fund Employees NAF Personnel Branch, CPAC…	938-2822
On-site training classes CPAC……...	938-3943
Time and attendance reporting Civilian Pay Service Center Directorate of Resource Management……	938-6508
Weather and road conditions…….	938-7000
USMA homepage……..	http://www.usma.edu

-Signed-
CAROL L. MCQUINN
Human Resources Officer

DISTRIBUTION:
1 – each AF employee
1 – each NAF employee

DEPARTMENT OF THE ARMY
U.S. ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON WEST POINT
681 HARDEE PLACE
WEST POINT, NEW YORK 10996

AMIM-MLG-ZA 29 August 2022

U.S. ARMY GARRISON WEST POINT POLICY #11

SUBJECT: West Point Parking Policy

1. References.

a. DODD 5525.4, Enforcement of State Traffic Laws on DoD Installations, dated 2 November 1981.

b. AR 190-5, Military Traffic Supervision, dated 22 May 2006.

c. West Point Regulation 190-5, Military Police Motor Vehicle Traffic Supervision on West Point, January 2012.

d. USMA Policy Memorandum 201-12, subject: Request to Reserve Parking Spaces on West Point, dated 14 September 2012.

2. Purpose. This policy establishes a parking strategy designed to enhance the security of West Point while implementing necessary procedures and applying logical practices to parking a vehicle in designated areas throughout the Installation, Monday through Friday, 0630-1630 or when a specific activity is operational.

3. Applicability. This policy applies to all Soldiers, Civilians, Family members, contractors, tenants and any other person who operates any vehicle on West Point for any purpose. This includes, but is not limited to, all personnel operating a civilian or Government motor vehicle of any kind (including golf carts, GEM and electric zero-emissions vehicles) on West Point.

4. Responsibilities. It is imperative that Commanders, Directors and Supervisors ensure West Point military personnel, Civilians, Cadets and Family members are made aware of the policy and comply with the established procedures. Equally important, operators of motor vehicles on this Installation are responsible to obey New York State Department of Transportation and New York State Department of Motor Vehicles driving laws and regulations and guidelines as outlined in this policy and/or established by the Directorate of Emergency Services(DES)/Provost Marshal's Office(PMO). Violations of this policy and/or state motor vehicle laws are subject to judicial and non-judicial action as determined by military police who may contact the driver to correct the infraction; issue a citation; recommend loss of on-post driving privileges; and/or may direct the vehicle be towed IAW the regulations noted above.

5. General.

a. Implied Consent to Tow and/or Impound a Vehicle. However, before a vehicle is removed from West Point, reasonable attempts will be made to locate the owner of the POV. IAW AR 190-5 and West Point Regulation 190-5, persons who operate a motor vehicle on West Point shall be deemed to have given consent for the removal and temporary impoundment of a Privately Owned Vehicle when:

(1) Remaining parked on the Installation for more than 72 hours.

(2) Illegally parked and/or interfering with Installation activities or operations.

(3) Causing a safety hazard.

(4) Disabled as the result of an accident and left at the scene.

(5) Left unattended in a restricted or controlled area.

(6) Parked in a Central Parking Area (CPA) lot without an authorized decal displayed to indicate the vehicle is approved to park in that area.

b. Proper Parking Practices to Employ while Operating a Vehicle on West Point.

(1) Persons who operate, or are in charge of a motor vehicle shall not park or leave a vehicle unattended without first stopping the engine, placing the transmission in a low gear (manual) or park (automatic), locking the ignition switch, removing the key, engaging the parking break when on a grade, and locking the vehicle. Vehicles parked upon roadways where there are curbs shall be parked in the direction of the flow of traffic with the passenger side parallel to and within 12 inches of the curb except where angle parking is permitted. When authorized to park on roadways without curbs, vehicles shall be parked on the right shoulder of the roadway in the direction of the flow of traffic. Vehicles shall be completely clear of the travelled portion of the roadway. Anyone operating a government vehicle will not park adjacent to or utilize parking areas designed for patrons of AAFES, Commissary or Directorate of Family and Morale, Welfare and Recreation (DFMWR) dining facilities. Directorate of Public Works (DPW) and DES emergency vehicles or other vehicles considered to be on official business are excluded from this restriction.

(2) Finally, in order to reduce potential parking and traffic congestion, community members, particularly those who reside on the Installation, are strongly encouraged to carpool, walk, shuttle, or bicycle to and from work.

c. Designation of Reserved Parking Spaces.

(1) Parking spaces marked "Handicapped" are for the exclusive use of persons who are handicapped and have displayed a hanging pass or vehicle plate identifying the individual as handicapped. If the person parks in a CPA lot, they must also possess a CPA permit or temporary decal for handicapped parking.

(2) A vehicle used for handicap parking must be registered to the military personnel or civilian employee. The plates and permits may be used to park in reserved parking spaces only when the person with the disability is driving or riding in the vehicle. In addition, the handicapped hanging pass must match the vehicle registration, DoD decal and the CPA pass for it to be valid.

(3) Each set of quarters within Government housing has designated reserved parking spaces.

(4) West Point unit designated parking spaces are outlined in Enclosure 1.

(5) Electric cars will park in designated areas IAW Enclosure 2.

(6) Special accommodations' reserved parking will be coordinated through EEO.

(7) Government vehicles will park in designated spaces IAW Enclosure 2, but in the event those spaces are not available, GOVs will be parked either at the motor pool or in the parking lot adjacent to Gillis Field House. Tactical vehicles will not be parked in any of the designated parking areas for POVs.

d. Building 606 Clinic Appointments.

(1) Parking spaces marked "Clinic Appointments" are reserved for bona fide visitors and/or patients of the Dental or Optometry Clinics. Clinic personnel will not use those spaces. The maximum time limit for clinic parking is two hours or as posted. The spaces will include three spaces on the side road adjacent to Building 606 and six spaces along Thayer Road.

(2) Clinic signs will be clearly marked "Clinic Appointment."

e. Motorcycle Parking. Riders of motorcycles, motor scooters and mopeds will park in Green-striped parking areas generally located at the end of parking lanes; however, riders will not park in POV/GOV parking spaces. In addition, riders will not park in pedestrian crosswalks nor inhibit access to walking lanes, handicapped parking spaces or otherwise impede the flow of traffic.

f. Recreational Vehicle (RV) parking/Storage.

(1) Boats, motor homes, campers and house and baggage trailers are considered RVs.

(2) RV registration at the PMO is required if visiting the WPMR for more than 30 days.

(3) Registered RVs may park in the secured RV lot located behind the Transportation Motor Pool. This lot has a limited number of spaces which are assigned on a first-come, first-serve basis. All other registered RVs will be assigned a space and stored in either the parking lot adjacent to Spellman Hall or the Commissary. RVs that cannot enter either lot due to space limitations, or do not park in accordance with their assigned space, or have insufficient paperwork to receive a DoD decal are subject to and are required to follow all of the West Point parking restrictions, even if the RV must be removed from West Point.

(4) RVs visiting temporarily (less than 30 days) are authorized to park only in:

a. Round Pond, IAW guidance from the Round Pond business office.

b. North Dock located (Self-propelled RVs only) next to Gillis Field House parking area (Special Events only i.e. Graduation and football).

c. RVs may park in housing areas for up to 48 hours only for the purpose of cleaning, minor repair, preparing for or unloading from a trip. Authorized housing areas are only within driveways or adjacent to quarters authorized by the occupants, as long as such parking does not deny other residents access to their authorized vehicle spaces, create a traffic safety hazard, or impede the flow of traffic.

d. The only two authorized areas to empty and flush sewage tanks are:

(1) The USMA dumping station adjacent to Building 845 (North Sewage Plant).

(2) The dump station at Round Pond (IAW guidance from the Round Pond business office).

f. The above parking areas are designated for the convenience of the owners. West Point, however, is not liable for any property that is stolen, vandalized, or damaged while in these lots. The Personnel Claims Act prohibits compensation for any loss to the users of these storage lots. Owners of recreational vehicles (boats, trailers, wave runners, quads, etc.) must register and park their vehicles at one of the designated DFMWR recreational vehicle parking lots. The parking/storing of recreation type vehicles in residential housing areas is not authorized. Similarly parking of recreational vehicles at any location other than those noted above is prohibited.

g. Unauthorized or Prohibited Parking Areas. In an effort to limit the number of signs erected on the West Point, there is no requirement to post a sign where parking is prohibited. Some parking prohibition signs in various areas were erected only as reminders. Parking is prohibited:

(1) As described as a violation in the New York Vehicle and Traffic Laws Section 1200(d).

(2) Outside of two white painted parking lines on streets or in parking lots except in residential areas. The lack of two white painted lines is indicative of unauthorized parking.

(3) On grass covered/seeded areas (exceptions are the off-post training areas).

(4) Parking on sidewalks prohibited (no exceptions).

(5) Where prohibited by sign or traffic control barrier emplaced by PMO authorized entity.

(6) In housing areas in or in front of another resident's driveway or their assigned space, except where permission has been obtained from the resident assigned that space.

(7) In front of a public or private driveway.

(8) Within 15 feet of a fire hydrant.

(9) Within 15 feet of refuse containers.

(10) Where obstructing the normal flow of traffic.

(11) In a safety zone marked by striped yellow lines painted on the ground.

(12) Parking is prohibited in any area not designated by signage as authorized parking areas or spaces.

(13) Areas designated as Cadet Barracks.

(14) Drop off or loading zone (except to drop off, load, etc...).

(15) Beside another vehicle parked parallel to the curb or on a roadway shoulder.

(16) Privatized military housing areas where parking is designated by residence. Additionally, residents are authorized to park in their designated parking spaces or in an

approved non-designated parking space within the housing area by Balfour Beatty. Occupants and/or their guests may not interfere with the parking privileges of other residents.

h. Vehicle Removal from West Point.

(1) West Point Military Police (MP) and DES personnel are authorized to remove any POV registered under AR 190-5 and West Point Policy 190-5, as described below, or when a vehicle is found abandoned on the Installation:

(a) Vehicles parked more than 72 hours in one location are considered abandoned and subject to removal from West Point. The 72 hour restriction does not apply to individuals who live in Family housing, Government quarters or barracks and park their vehicles in designated parking areas for these individuals.

(b) When a vehicle is left on an Installation road or in a parking lot beyond 72 hours as the result of inclement weather or may cause an immediate safety hazard or block passage of emergency vehicles on the Installation.

(c) During higher Force Protection Conditions, if a vehicle owner cannot be positively identified, the vehicle will be considered abandoned and towed off the Installation.

(2) Parking for personnel on an extended TDY. There are occasions when employees who reside off post go TDY, but do not have a satisfactory location to park their POV. Any Community member scheduled to be on Official Travel may request to park their vehicle in a designated parking area beyond 72 hours; this request MUST be presented to the MP Station who is authorized to approve or disapprove the request. Any vehicle identified as belonging to a West Point Community member without approval to park their vehicle beyond 72 hours in a parking area will be given a citation and their vehicle booted and/or towed.

(a) When parking your POV, obtain a TDY Storage Lot Form (refer to sample in reference (c) from the PMO Desk Sergeant; provide the data listed below so that PMO is able to reach a POC in case of an emergency.

(1) Date of Departure.

(2) Date of Return.

(3) Make/Model/Color of vehicle/Registration number.

(4) Emergency Contact with multiple Phone Numbers.

i. Central Area Parking Lots. These parking lots include: Clinton, Doubleday, Kosciuszko, Lincoln Hall (front/behind) and Thayer Roof. Restrictions and special requirements to park in these areas are the result of DoD and Department of the Army security requirements to provide necessary protection to our personnel. Thus, anyone can request to park in these areas but they must apply or obtain issuance of a CPA decal to identify the vehicle when it parks in one of these areas. Information on the process to request this decal can be provided by contacting the MP Office, at 938-3333.

j. Cadet Barracks Area. There is no parking allowed in this restricted area; however, any vehicle that requires access to the area in order to perform maintenance (i.e. DPW), drop off supplies and goods (DOL/DCA/IETD etc), make a commercial food delivery (food, laundry, etc) or any other necessary activity are subject to their vehicle(s) being searched at the Arvin security station (Prior coordination needs to be made with DES NLT 48 hours for out of the ordinary deliveries).

(1) Exceptions to Policy.

(a) The graduating class; they must undergo a vehicle search prior to entering the Cadet Barracks Area. All vehicles must be removed no later than 1700 Graduation day.

(b) Cadet Guard Room (CGR Van); must undergo a vehicle search prior to entering the Cadet Barracks Area.

(c) Commandant of Cadets Official Vehicle; must undergo a vehicle search prior to entering the Cadet Barracks Area.

(d) Certain special events and class reunion handicapped vans driven by military Officers; Prior coordination needs to be made with DES and vehicles must undergo a vehicle search prior to entering the Cadet Barracks Area.

6. Procedures for Designated/Reserved Parking.

a. All requests for designated/reserved parking will be submitted in memorandum format to EOC.WP@usma.edu. DPTMS will then convene a meeting of the Approval Committee to consider each application. The committee consists of Representatives from G-3, DPTMS, DES, EEO, CPAC and AFGE. The committee may take 30-60 days to act upon a request. If a request is denied, the requester can resubmit a new request one calendar year from policy date being signed. All decisions will then become final with no appeal or reconsideration process. Note: The Committee will meet annually to review the use of current designated/reserved parking spaces.

b. The request must include a written justification endorsed by the requester's Director or Commander, explaining the reason for a reserved space along with at least three suggested locations for the reserved space sign emplacement. The request must be accompanied with a DD Form 4283, Facilities Engineering Work Request, dated September 2003.

c. If the request is approved, DPTMS will forward the DD Form 4283 to DPW who will create and install the appropriate sign for that person. DPW will notify DES and DPTMS when the sign will be posted and ready for the individuals use. Then, DPTMS will contact the requesting organization, EEO, DES and/or the individual that the designated space is ready for their use.

7. Contractor Vehicles. The authorized parking area for construction vehicles (contractors) is within the designated staging area(s) or where identified within their statement of work. Contracting Official Representatives and Contracting Officer Representatives must ensure contractors are informed of this policy and that violations are subjected to paragraph 5(a) above.

a. No general contractor or subcontractor employee parking is available near the immediate site. The contractor will need to identify and locate parking facilities for general and subcontractors off of West Point and provide a means for shuttling workers ot the site. West Point shuttle services will not be used for transporting workers to the site.

b. Under no circumstances will Contractors parkin Central Parking Area (CPA) Lots.

c. Contractors will not park in designated loading zone or drop off areas for longer than 15 minutes.

8. This policy remains in effect until canceled or superseded in writing.

9. Point of contact for this memorandum is the Installation Antiterrorism Officer, Directorate of Plans, Training, Mobilization and Security, at (845) 938-3650.

ANTHONY J. BIANCHI
COL, FA
Commanding

Encls
1. Authorized Reserved Parking Spaces
2. Maps and Diagrams
3. CPA Parking Lots/Areas

Parking Policy – Enclosure 1

Thayer Roof Parking Lot

9- Handicap Parking Spaces

1- DPW Service Vehicle Parking Space

1- GOV Parking Space

1- Director of O/ Dean CEP

1- USMA STAFF 47

1- DEPT Head Physics

1- DEPT Head CL&S

1- DEPT Head History

1- DEPT Head Math SCI.

1- DEPT Head BS&L

1- DEPT Head EE&CS

3- GEM Electric Vehicle Parking Space

1- Motorcycle Parking Area

Ricky A. Calderon/ (845) 938-7398/ ricardo.a.calderon.civ@mai.mil

Parking Policy – Enclosure 1

Cullum Road Street Parking

4- Handicap Parking Spaces

Double-day Parking Lot

1- Motorcycle Parking Area

4- GOV Parking Spaces

3- GOV/ GEM Electric Vehicle Parking Spaces

1- DEPT. Head SOC SCI.

1- DEPT. Head English

4- DEAN Parking Spaces

Cullum Hall Parking Area (Behind BLDG)

1- Cadet Hostess Parking Space

West Point Club Parking Area (Adj. BLDG)

2- GOV Vehicles Parking Spaces

1- West Point Club General Manager Parking Space

Ricky A. Calderon/ (845) 938-7398/ ricardo.a.calderon.civ@mai.mil

Parking Policy – Enclosure 1

Center for Arts & Humanities Parking Lot

3- Handicap Parking Spaces

Eisenhower Hall Tiered Parking Lot

5- Handicap Parking Spaces

5- GOV Parking Spaces

4- DCA Parking Spaces

Arvin Gym (Lower Lot)

9- Handicap Parking Spaces

1- Motorcycle Parking Area

1- DVQ 109 Parking

1- Deputy CMDT

1- BTO

Ricky A. Calderon/ (845) 938-7398/ ricardo.a.calderon.civ@mai.mil

Parking Policy – Enclosure 1

Arvin Gym (Upper Lot)

1- DMI

1-SCPME

1- Union REP. Only

1- MOS

1- DFL DEPT. Head

1-CSM USCC

1- GEnE DEPT Head

Thayer Extension Parking Area

1- DENTAC Commander Parking

1- Motorcycle Parking

1- GEM Electric Vehicle

6- 2 hour Clinic Appointment Parking Spaces

10- Handicap Parking Spaces

Ricky A. Calderon/ (845) 938-7398/ ricardo.a.calderon.civ@mai.mil

Parking Policy – Enclosure 1

Upper 606 Parking Lot

1- Government Vehicles Parking Space

1- SJA Parking Space

1- Union REP.

2- Motorcycle Parking Area

1- Director of Admissions

Lower 606 Parking Area

1- DEPT Head Law

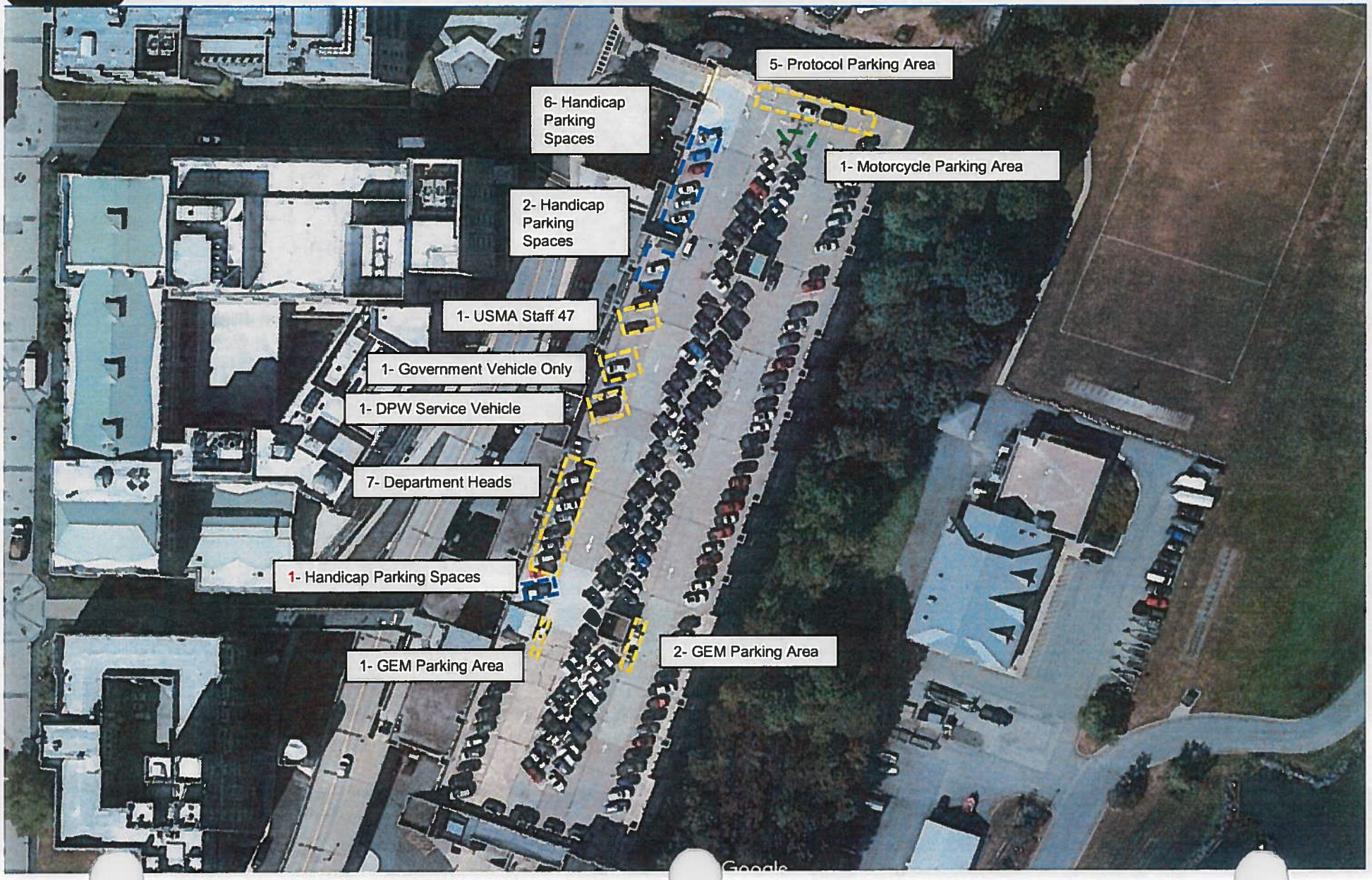
3- 2 hour Clinic Appointment Parking Spaces

2- Handicap Parking Spaces

Ricky A. Calderon/ (845) 938-7398/ ricardo.a.calderon.civ@mai.mil

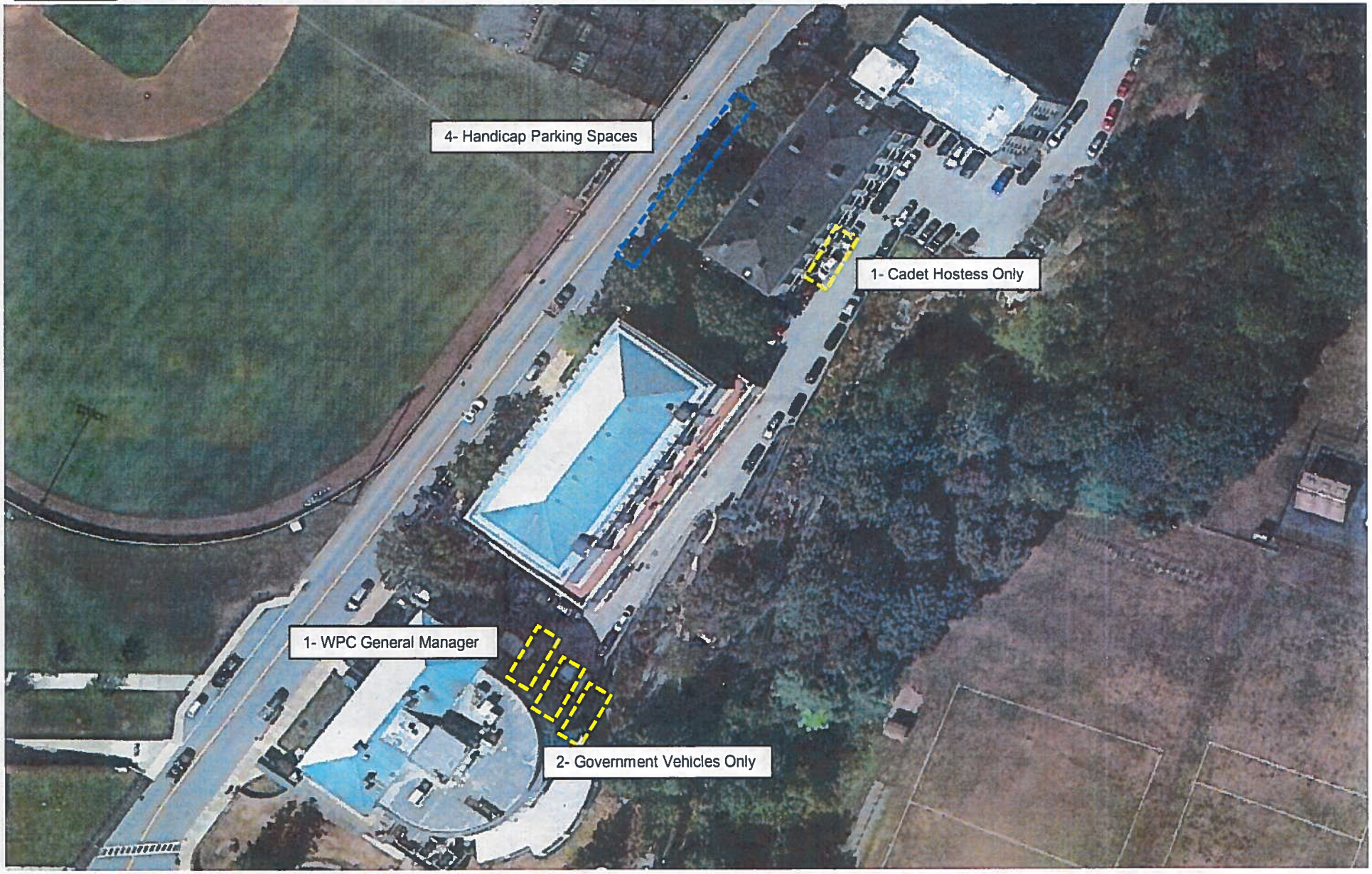
Parking Policy – Enclosure 2

Thayer Roof Parking Lot



Parking Policy – Enclosure 2

WPC/ Cullum/ Lincoln Halls Parking Area



Parking Policy – Enclosure 2

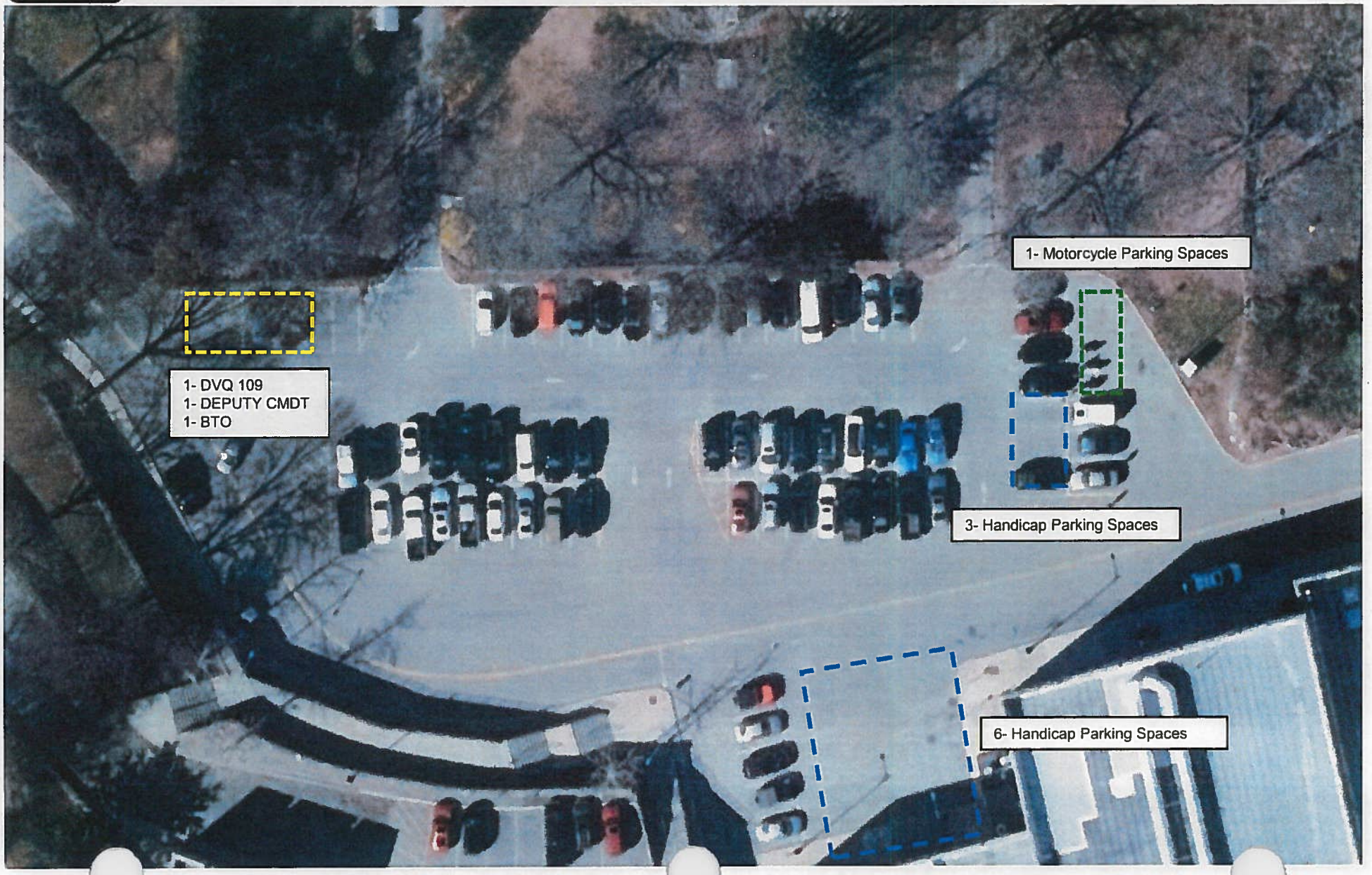
Double-Day Parking Lot

Parking Policy – Enclosure 2

Center for Arts & Humanities Parking Lot

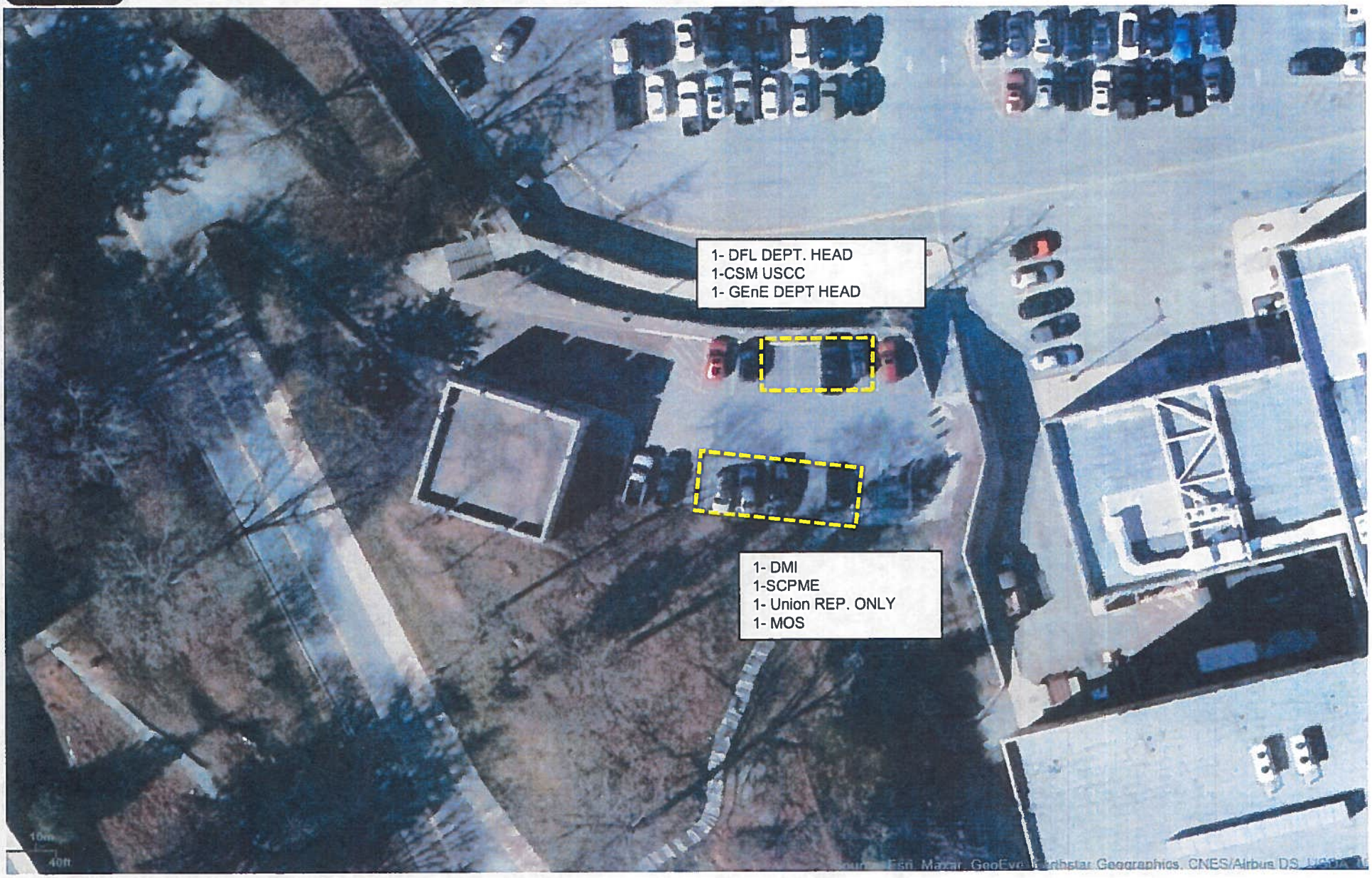
Parking Policy – Enclosure 2

Arvin Gym Parking Lot (Lower)



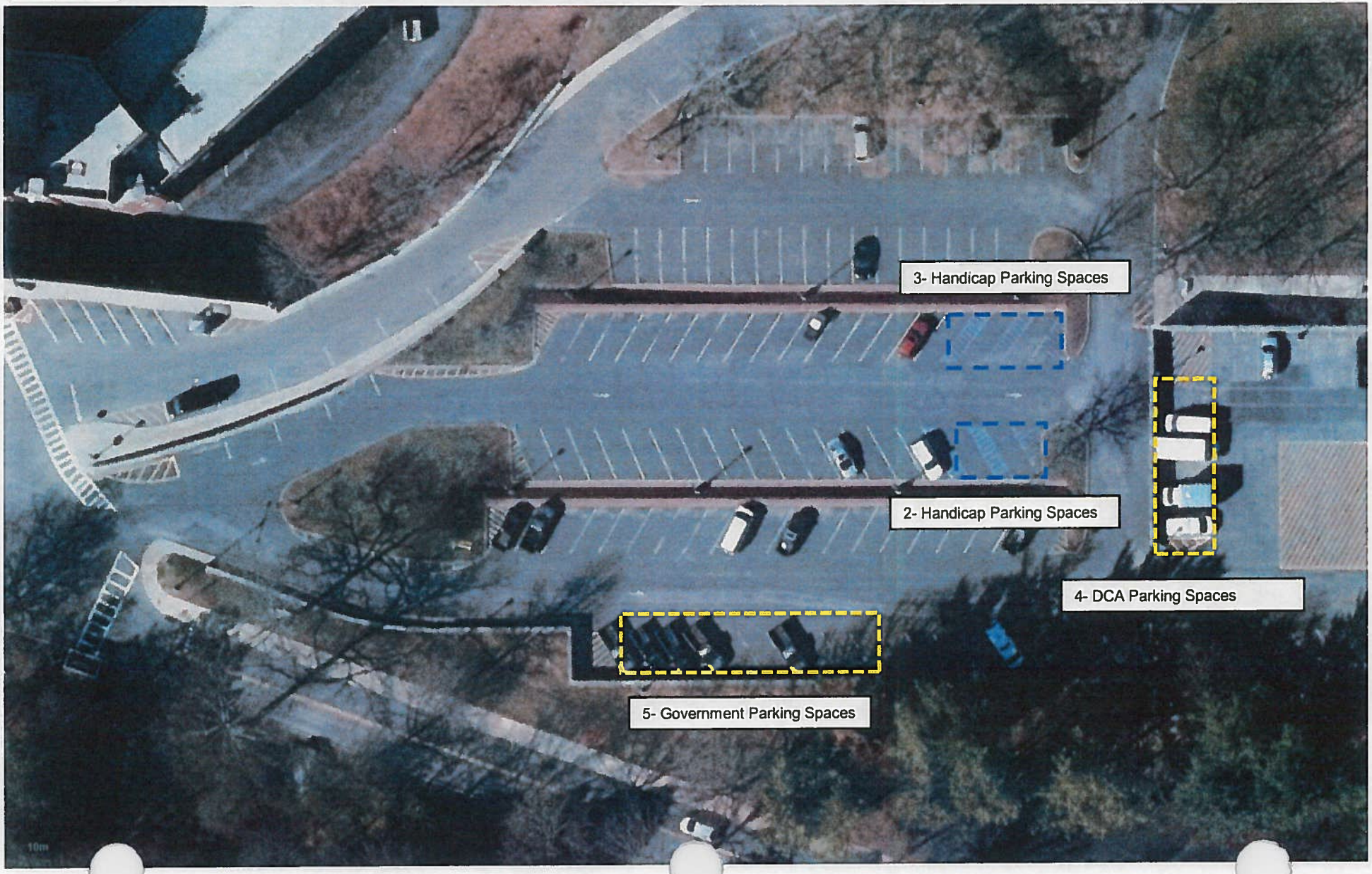
Parking Policy – Enclosure 2

Arvin Gym Parking Lot (Upper)



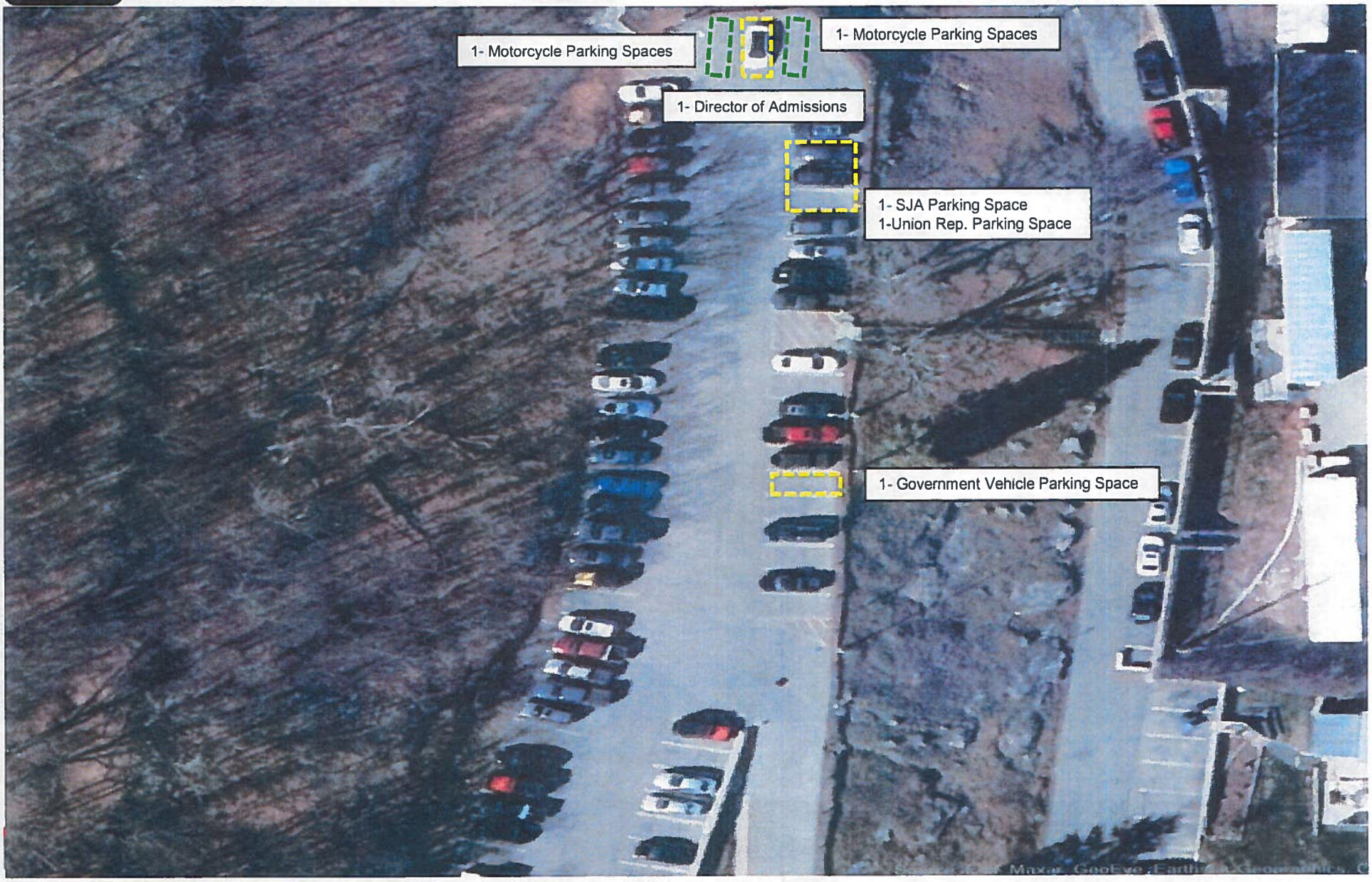
Parking Policy – Enclosure 2

Eisenhower Hall Parking Lot



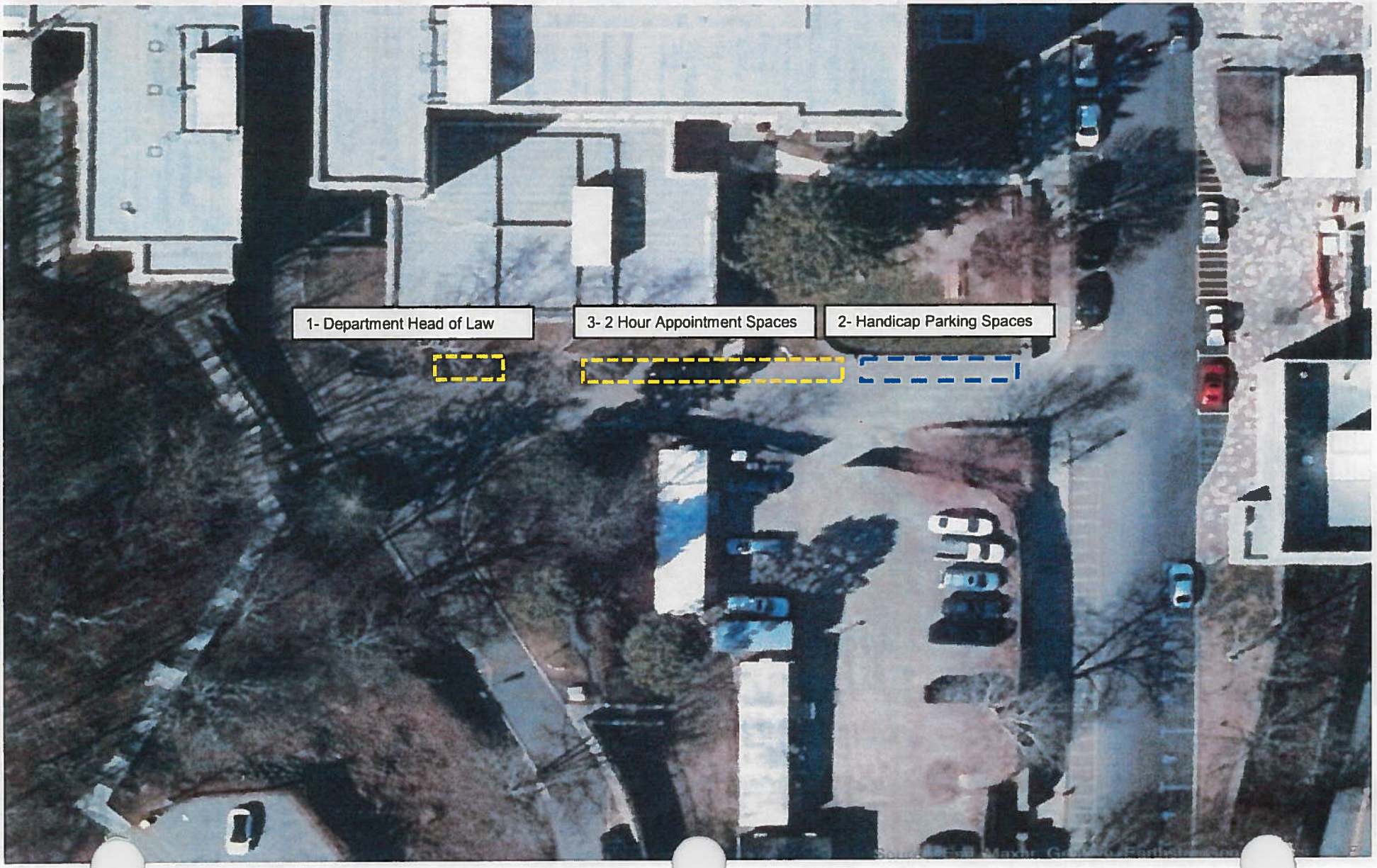
Parking Policy – Enclosure 2

Upper 606 Parking Lot



Parking Policy – Enclosure 2

Lower 606 Parking Area

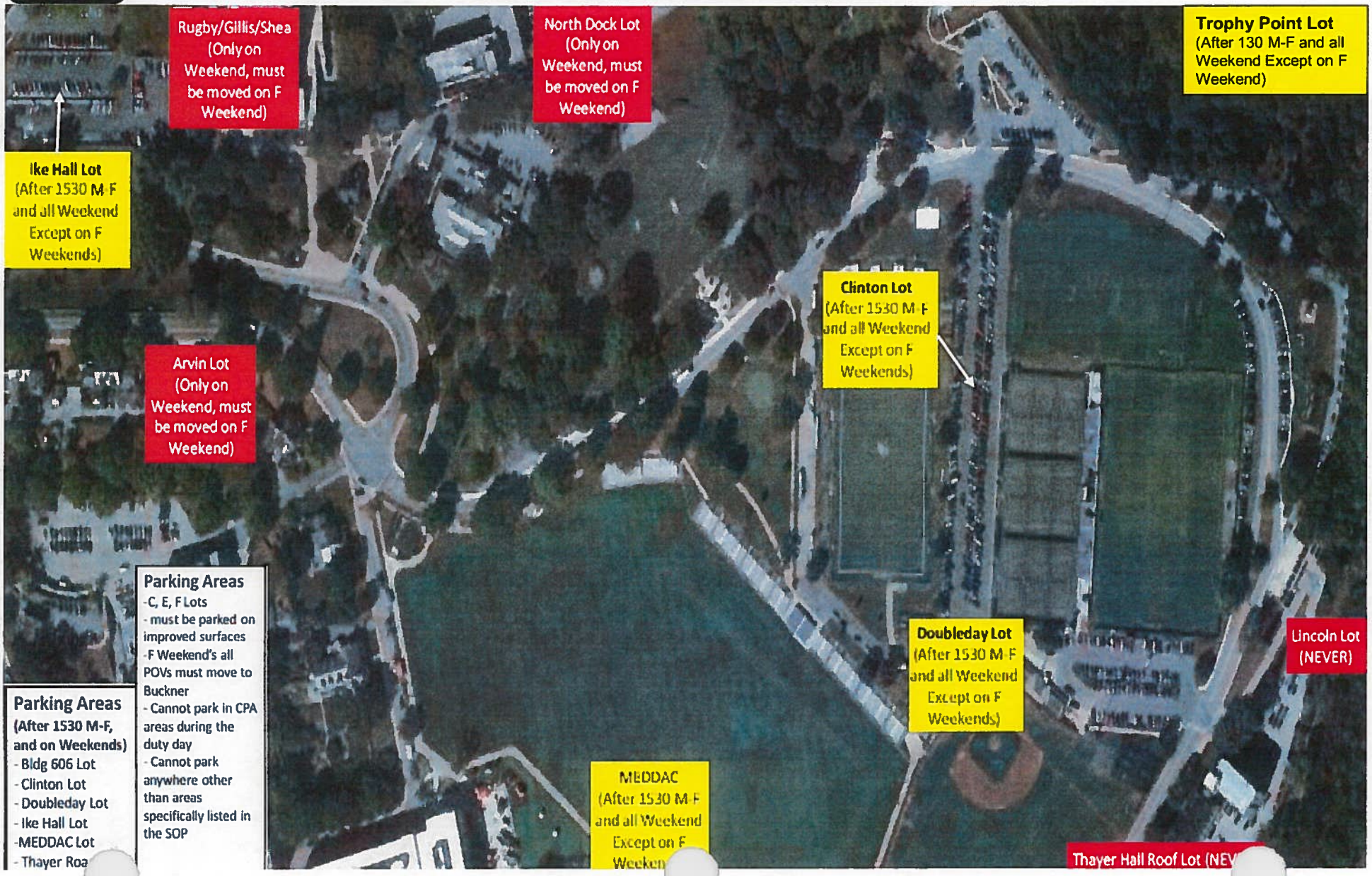


Parking Policy – Enclosure 2

Thayer Extension

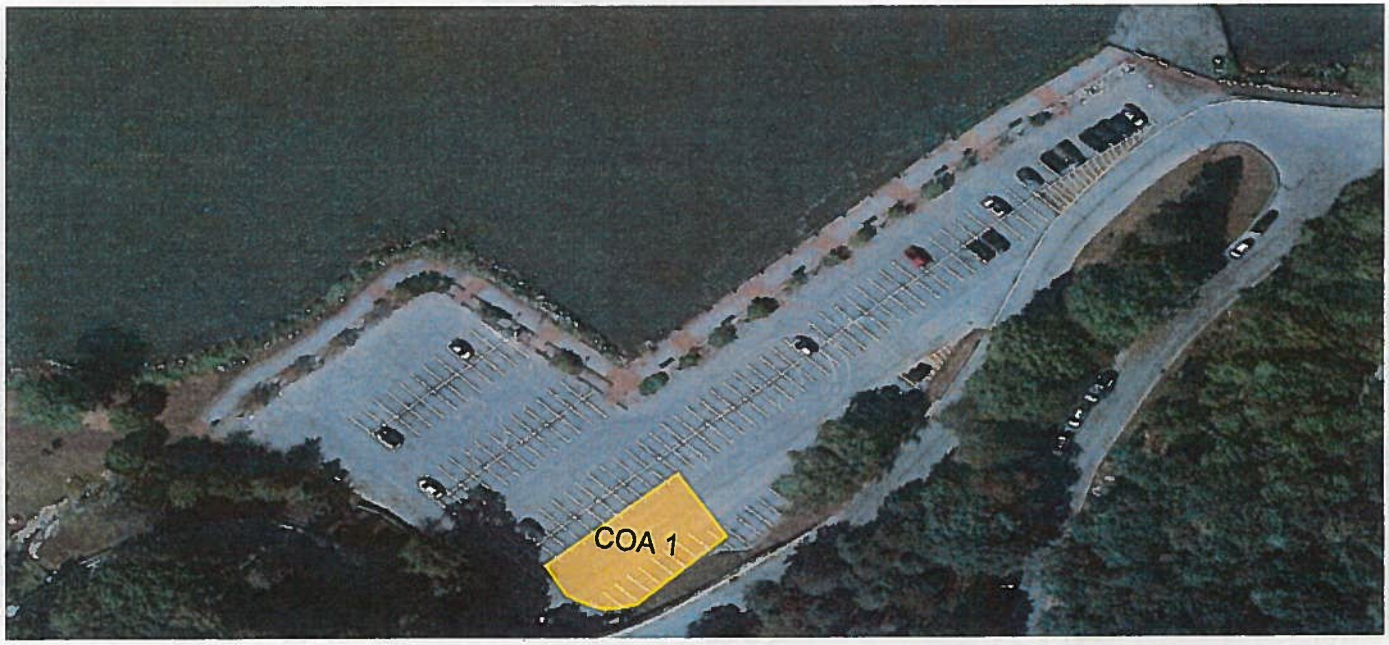
Parking Policy – Enclosure 3

CPA Parking lots/areas



Parking Policy – Enclosure 4

- Relocate Yacht Club boat storage (from South Dock) due to start of CEAC / Parking Structure construction – 1NOV20



REGULAR USE BOAT STORAGE COA 1

Requires:
- Re-striping

Pro:
- Could accommodate all (20) regular use boats

Con:
- Football Parking

Parking Policy – Enclosure 4

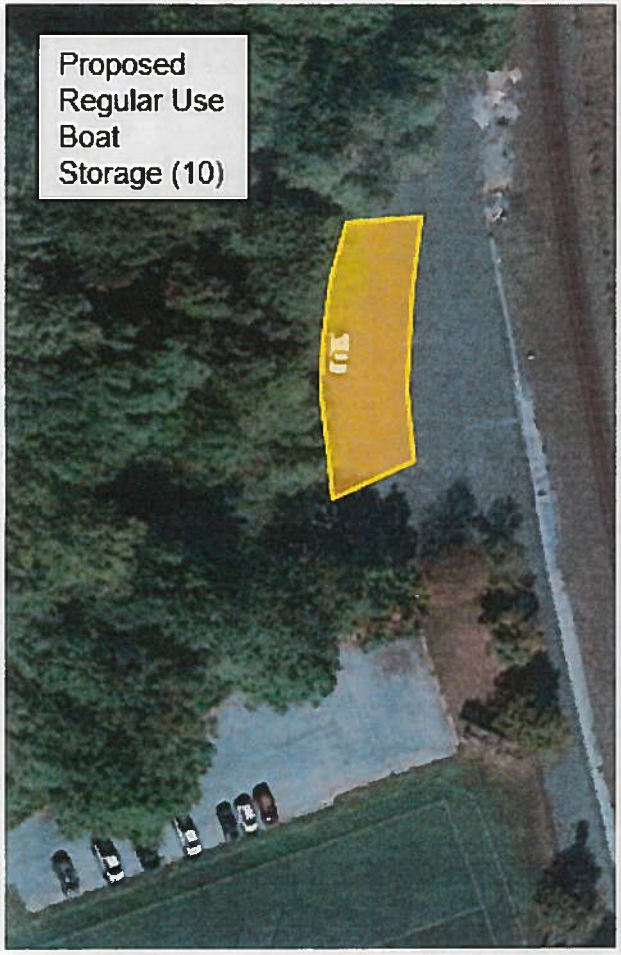
- Relocate Yacht Club boat storage (from South Dock) due to start of CEAC / Parking Structure construction – 1NOV20

REGULAR USE BOAT STORAGE COA 1

DRAFT Enclosure 4

Parking Policy – Enclosure 4

- **Relocate Yacht Club boat storage (from South Dock) due to start of CEAC / Parking Structure construction – Anderson Complex Turnaround**



Luke Pagan/ 848-938-8869/luke.j.pagan.civ@mail.mil

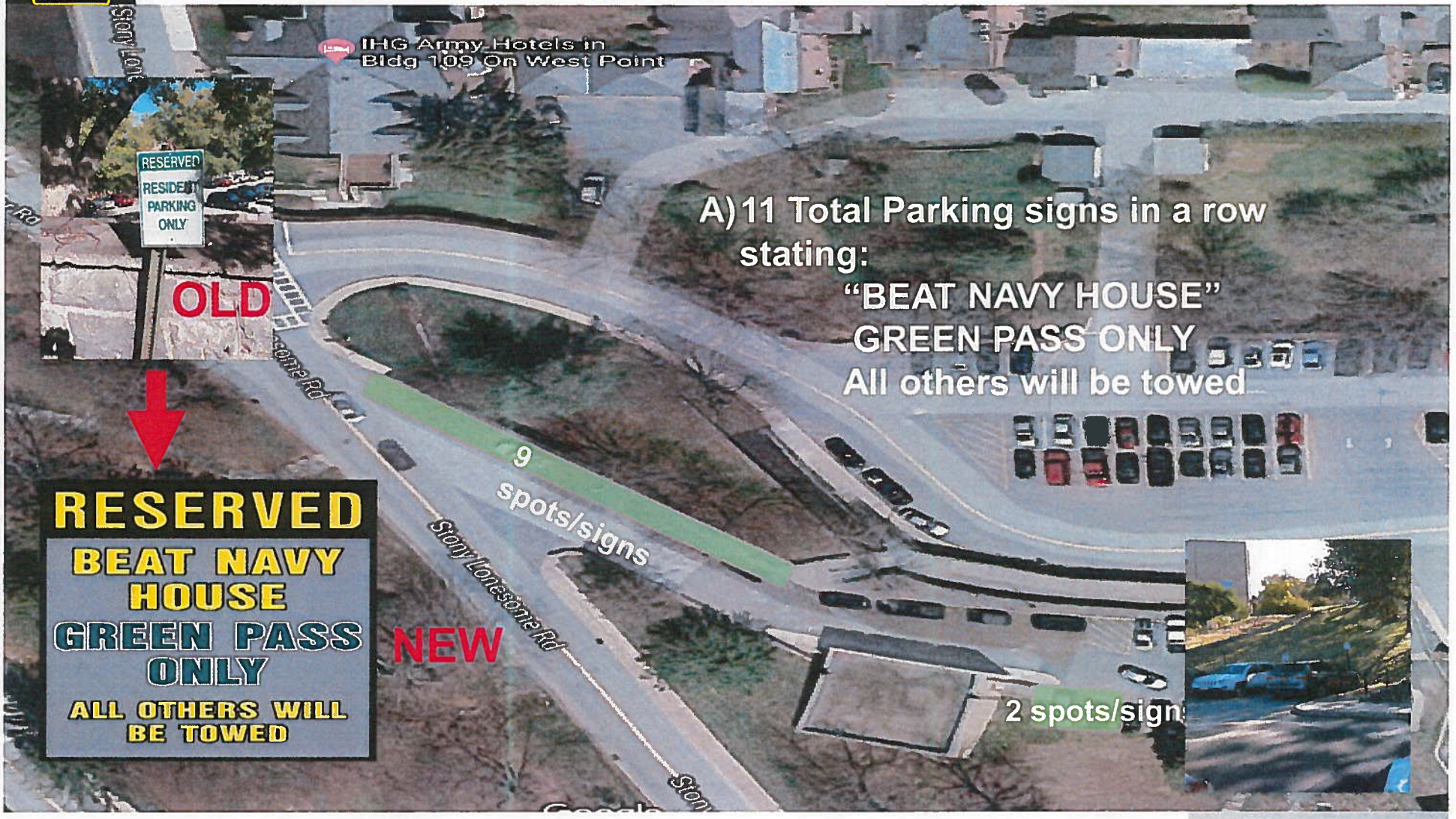
Parking Policy – Enclosure 4

- Contractor Parking Options – North Dock, B & C lot (available to contractors unless official business on the Installation)

Luke Pagan/ 845-938-8859/luke.j.pagan.civ@mail.mil

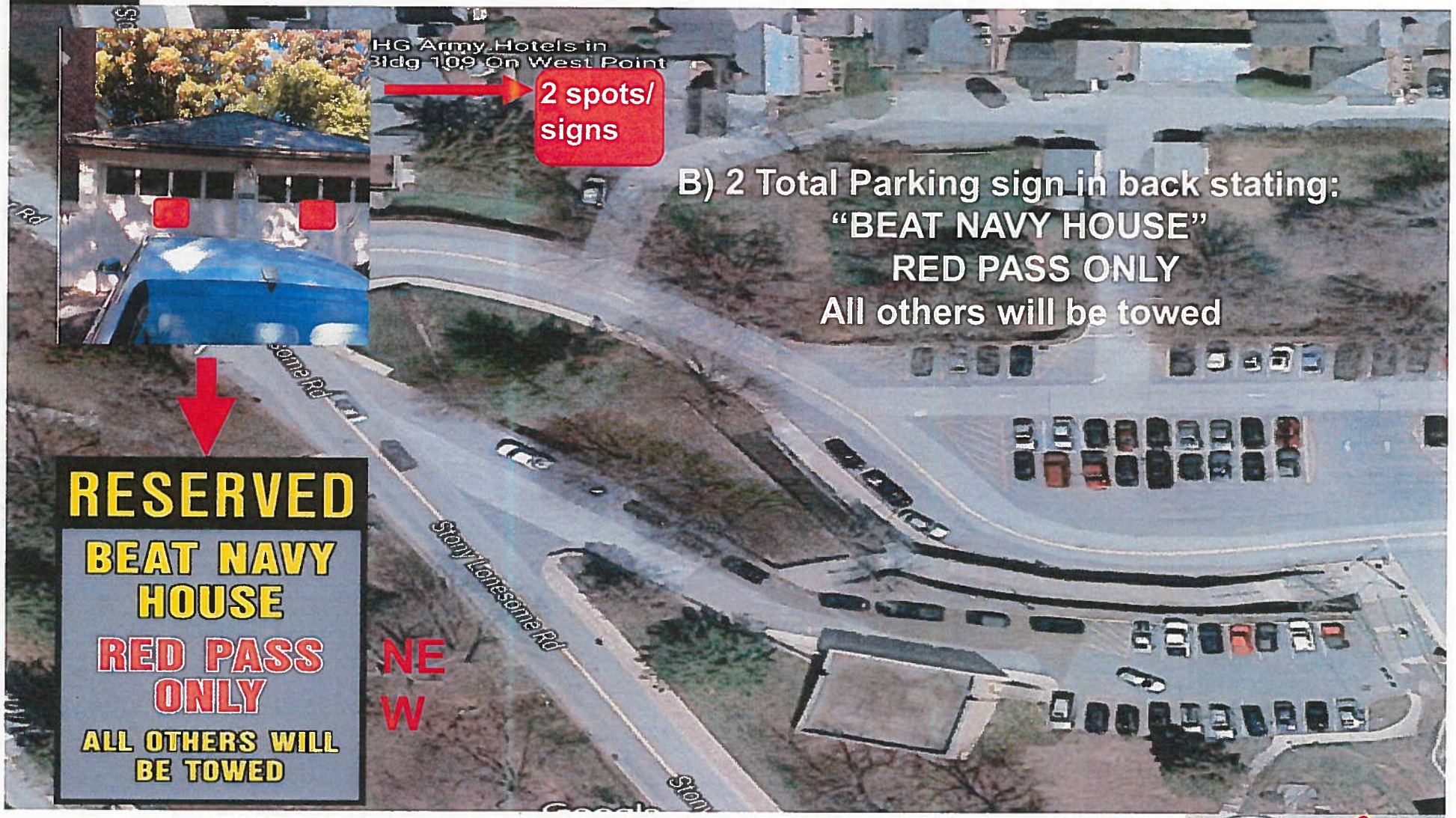
U.S. ARMY

Parking Policy – Enclosure 5



Luke Pag[illegible] / 845-938-8859/luke.j.pagan.civ@mail.mil

Parking Policy – Enclosure 5



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DEPARTMENT OF THE ARMY
U.S. ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON WEST POINT
681 HARDEE PLACE
WEST POINT, NEW YORK 10996-1514

IMML-ZA

23 July 2020

U. S. ARMY GARRISON WEST POINT POLICY #43

SUBJECT: Access to the Cadet Barracks Area

1. REFERENCE:

a. West Point Parking Policy, dated 12 July 2018.

b. WEST POINT POLICY MEMORANDUM NUMBER 001-14: Personnel Access to and Display of Identification within the Central Post Restricted Area.

2. PURPOSE: To set forth guidelines for vehicle access in the Cadet Barrack Area.

3. APPLICABILITY: This policy applies to all assigned personnel, guests and the general public.

4. BACKGROUND: This policy establishes procedures for obtaining a vehicle access pass to the Cadet Barracks Area. Vehicle access is restricted to official business. Passes will be issued by exception and not for convenience.

5. DEFINITIONS:

a. The Cadet Barracks Area is defined as the area between Jefferson Road, Diagonal Walk, Thayer Road, and Building 606 (IAW attached map).

b. Cadet formation areas are defined as North Area, Central Area, Old South Area, and New South Area (see attached map).

c. Vehicle Definitions:

(1) POV: Privately Owner Vehicle.

(2) GSA (Government Services Administration): All government owner/leased vehicles (except tactical vehicles).

(3) TACTICAL VEHICLES - HMMWV (High Mobility Multipurpose Wheeled Vehicle), LMTV (Light Medium Tactical Vehicles) and similar military purposed vehicles.

6. VEHICLE ACCESS POLICY:

a. All employees are prohibited from parking or driving in the Cadet Barracks Area without an authorized pass. Employees with an authorized pass will park in the assigned location and display the assigned parking pass in plain view in the windshield of the vehicle. Failure to do so will result in a wheel boot or towing. Verbal authorization to enter and/or park in the Cadet Barracks Area will not be given. The Apron is off limits to all vehicle traffic except for maintenance vehicles specifically required for work on that area.

b. Delivery and pick up vehicles should avoid the Cadet Barracks Area during the hours of breakfast 0655-0705 and lunch formation 1205-1215.

c. Vehicle access to the Cadet Barracks Area is through Brewerton Road or Thayer Walk, and is limited to vehicles with a valid Cadet Barracks Area Pass. The only exceptions are responding emergency vehicles and MPs on patrol or escorting fuel deliveries. Personnel will only drive on roadways, not through the sally ports.

d. Policy for Cadet Barracks Area access is as follows:

(1) The Director of Emergency Services (DES) has the sole authority for issuing vehicle access passes to the Cadet Barracks Area. Point of contact for the issue of the Cadet Barracks Area Pass is the Law Enforcement Section, DES, x0128/0538.

(2) Passes will be issued to registered vehicles only. Exceptions to this policy must be approved by the DES.

(3) Request for these passes will be in writing to include the need for access, date and time needed, vehicle, make, model, license plate number and point of contact (POC) with phone number no later than 48 business hours prior to requiring the pass.

(4) Passes will be issued Monday through Friday 1300 – 1600. Passes will not be issued on weekends.

(5) Approved passes can be picked up at anytime from the Military Police Desk Sergeant.

(6) In the event of an emergency, the DES Incident Commander or the senior DES personnel on scene can authorize an exception to the parking pass and parking policy.

(7) Activities with a current mission requirement to access the Cadet Barracks Area will be issued a limited amount of serial numbered passes which that activity will control.

(8) Contracting Officer Representatives (CORs) will review and coordinate all contractor pass requests. Individual contractors cannot obtain a pass on their own. CORs are responsible for picking up and returning passes to the Military Police Desk Sergeant.

(9) The authorized parking area for all maintenance and contractor vehicles is within the designated staging area or as identified on the Cadet Area Access Pass.

(10) Organizations that require continuous access to the Cadet Barracks Area can request a pass not to exceed 365 days.

(11) Tactical Officers (TACs) may request a 20-minute Access Pass to permit Cadets loading or unloading of equipment from a Cadet Privately Owned Vehicle (POV) only. This pass, with specified date and time period, will be visibly displayed IAW paragraph 5.a. TACs may not request this access in support of regular weekend departure or arrivals for loading or unloading luggage, and cannot be used for any Government vehicle. When authorized, Cadets will enter and depart the Cadet Barracks Area from Brewerton Road. This applies to cadet POVs only and can include trailers as long as they are listed on the pass, and the trailer remains hooked to the vehicle.

(12) Cadets are authorized to park for no more than 20 minutes in the Cadet Barracks Area to load or unload their POVs during the following periods:

(a) Reorganization Week: From 1230-1830 on the day scheduled for the return of cadets participating in Cadet Advanced Training.

(b) Designated Corps Leave Periods: Thanksgiving leave, winter leave and spring leave, leaving West Point at 1230 for the first day of leave and returning not later than 1830 on the last day of leave. NOTE: This authorization is extended to Cadet Sergeants upon their return from Spring Leave.

(c) Graduation Week: The graduating class may use 20 minute passes to load their vehicle (may also use for parent's vehicle as long as cadet is the driver); however cannot exceed the 20 minute policy.

(d) Graduation: The graduating class may park POVs in the Cadet Area from 1400 on the day prior to Graduation through 1600 on the day of Graduation. Loading or unloading does not apply during this 26 hour period. Cadets will park within the Cadet Area in a manner which allows cars to enter and leave the Cadet Area. Cadets will also ensure they park in a manner that allows the Fire Department, any other emergency vehicles, and the trash contractor access into and out of the Cadet Barracks Area. USCC will control parking of cadet vehicles in support of Graduation IAW West Point Graduation Operations Orders.

(e) Parking for Quarters 100 will be authorized through the Cadet Barracks Area access pass or signed memorandum from the Superintendent's Aide.

7. Pedestrian Access Policy:

a. Access to the Cadet Barracks Area is restricted to Cadets or others on official business. This includes crossing the Apron in front of Washington Hall.

b. Personnel will use the Diagonal Walk when crossing The Plain or walk around The Plain using the sidewalk by Washington Road.

c. During formations, individuals leaving the Cadet Barracks Area must take precautions not to interfere with the cadet formations. Personnel exiting buildings must plan around scheduled formations or use exits away from the assigned Regimental Areas.

d. The front Apron and Sally port Areas are not authorized break areas at any time.

e. Cadets and official business personnel may use Brewerton Road to move back and forth from Arvin Cadet Physical Development Center.

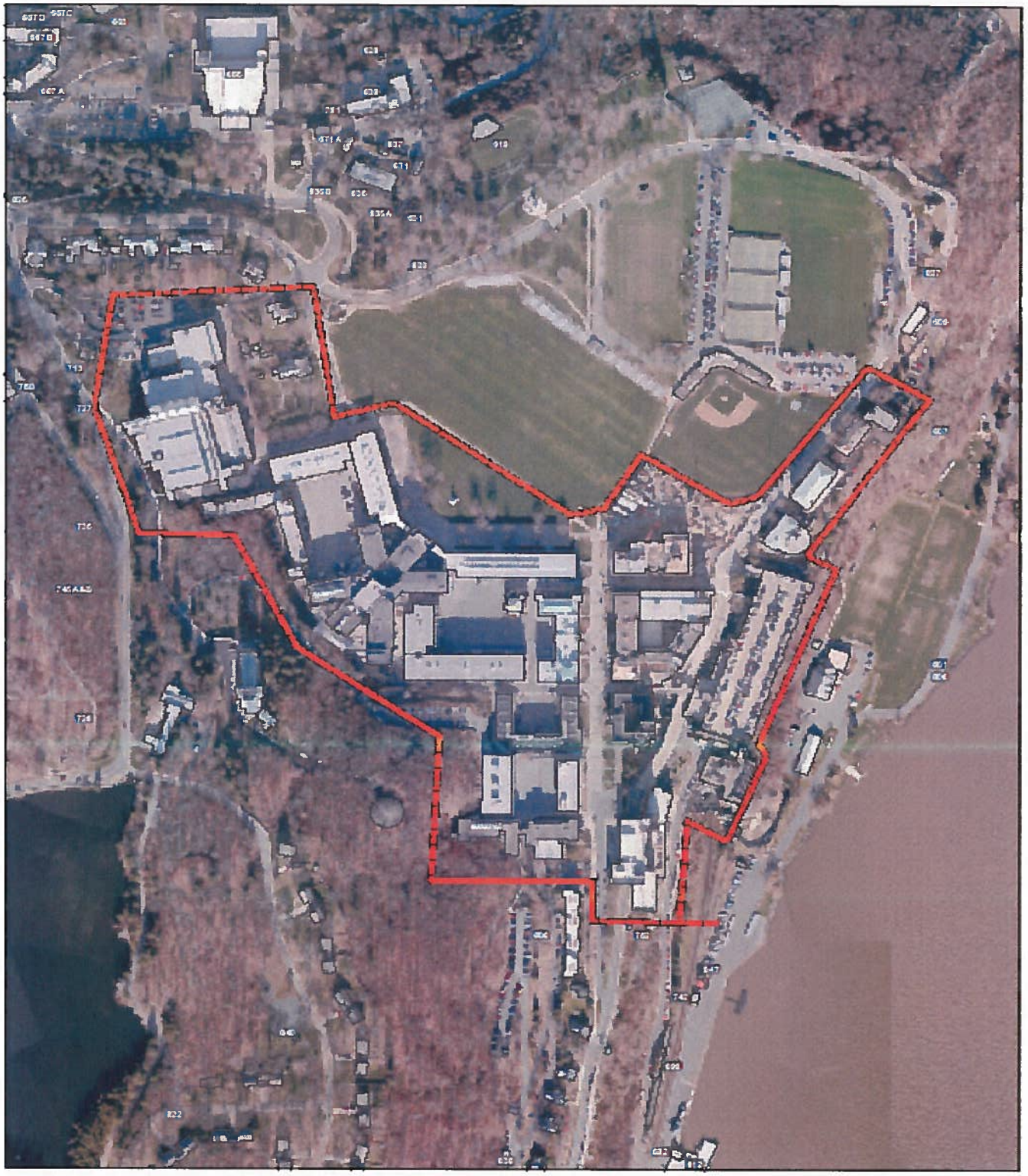
f. CORs are responsible for furnishing badges to each employee and for requiring each employee on the worksite to display their identification badge. Anyone not displaying an appropriate badge, identification card, or Cadet Area Access Pass will be escorted out of the Cadet Barracks Area.

g. Bicycles are prohibited from use on the apron at all times.

8. EXPIRATION: This Policy Memorandum replaces USCC Policy Memorandum 24-02 dated 15 June 2007 and remains in effect until superseded or rescinded.

EVANGELINE G. ROSEL
COL, AG
Commanding

IMML-ZA
SUBJECT: Access to the Cadet Barracks Area



Step 1: The Visitor Control Center (VCC):

**All visitors must go to the visitor's center*
***Request an access pass for "Central Area"*

Phone #: 845-938-0390 or 845-938-0392

Located: 2107 New South Post Rd.
West Point, NY 10996.

Hours: Visitor Center Hours:
Monday – Sunday from 6 a.m. to 10 p.m.
After 10 p.m. to 6 a.m. go to Stony Lonesome
Closed on Federal Holidays

Step 2: Commercial Truck Access

All commercial vehicles must proceed through this gate:

1204 Stony Lonesome Access Rd / Ste 6
West Point, NY 10996

Once through the Stony Lonesome gate, pull over and call POC

Step 3: USCC POCs:

Mike Reed mike.reed@westpoint.edu
Facility Planner mdr2565@gmail.com

Office: 845 938-2214 Cell: 609 649-2303

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DEPARTMENT OF THE ARMY
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681 HARDEE PLACE
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West Point COVID-19 Screening
USACE Approved Contractors

1. Please provide your name (Last, First).

2. Please enter today's date (M/D/YYY)

3. Have you been exposed to anyone with COVID-19 in the last 14 days? YES / NO

☐ ☐

4. Are you experiencing any COVID-19 symptoms (dry cough, shortness of breath, sudden loss of taste or smell, fever)? YES / NO

☐ ☐

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SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES
11/20

PART 1 GENERAL

1.1 PRICING OF CONTRACTOR-FURNISHED AND INSTALLED PRQPERTY AND GOVERNMENT FURNISHED CONTRACTOR-INSTALLED PROPERTY

The Contractor must promptly furnish and must cause sub-contractors and suppliers to provide, in like manner, unit prices and descriptive data required by the Government for Property Record purposes of fixtures, and equipment provided by the Contractor. It is not required to provide prices for Government-furnished property (GFP). List this information in the RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE(RMS CM), CQC Module furnished by the Government. The Contractor must promptly furnish and must cause sub-contractor or supplier to provide, in like manner, unit prices and descriptive data required by the Government for Property Record purposes of fixtures and equipment furnished and/or installed by the Contractor or subcontractor. It is not required to provide prices for GFP. List this information in the RMS CM, CQC Module furnished by the Government.

1.2 CONTRACT COST BREAKDOWN

The Contractor must furnish within 30 days after the date of Notice to Proceed, and prior to the submission of its first partial payment estimate, a breakdown of its single job pay item or items which will be reviewed by the Contracting Officer as to propriety of distribution of the total cost to the various accounts. Any unbalanced items as between early and late payment items or other discrepancies will be revised by the Contracting Officer to agree with a reasonable cost of the work included in the various items. This Contract cost breakdown will then be utilized as the basis for progress payments to the Contractor.

1.3 CONTRACTOR'S INVOICE AND CONTRACT PERFORMANCE STATEMENT

1.3.1 Submission of Invoices

If DFARS Clause 252.232-7006 Wide Area WorkFlow Payment Instructions is included in the Contract, provide the documents listed in above paragraph CONTENT OF INVOICE in their entirety as attachments in Wide Area Work Flow (WAWF) for each invoice submitted. The maximum size of each WAWF attachment is two megabytes, but there are no limits on the number of attachments. If a document cannot be attached in WAWF due to system or size restriction, provide it as instructed by the Contracting Officer.

1.3.2 Final Invoice

a. A final invoice must be accompanied by the certification required by DFARS 252.247.7023 Transportation of Supplies by Sea, and the Contractor's Final Release. If the Contractor is incorporated, the Final Release must contain the corporate seal. An officer of the corporation must sign and the corporate secretary must certify the Final Release.

b. For final invoices being submitted via WAWF, the original Contractor's Final Release Form and required certification of Transportation of

Supplies by Sea must be provided directly to the respective Contracting Officer prior to submission of the final invoice. Once receipt of the original Final Release Form and required certification of Transportation of Supplies by Sea has been confirmed by the Contracting Officer, the Contractor must then submit final invoice and attach a copy of the Final Release Form and required certification of Transportation of Supplies by Sea in WAWF.

c. Final invoices not accompanied by the Contractor's Final Release and required certification of Transportation of Supplies by Sea will be considered incomplete and will be returned to the Contractor.

1.4 SINGLE JOB PAYMENT ITEMS

Payment items for the work of this Contract for which Contract job payments will be made are listed in the BIDDING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular job or unit price payment item, are included in the listed job item most closely associated with the work involved. The job price and payment made for each item listed constitutes full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

1.4.1 Mobilization and Demobilization

1.4.1.1 MOBILIZATION

Mobilization must include all costs for preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and other work performed prior to actual commencement of work. The Contractor must furnish and set up necessary general facilities, as are required by local, county, state or Federal laws, regulations or codes. The cost of required insurance and bonds and/or any other similar significant initial expense required for the initiation of the contract work must be included in this item. The determination of the adequacy of the Contractor's facilities, except as required by local, county, state or Federal laws or regulations, must be made by the Contractor.

1.4.1.2 DEMOBILIZATION

Demobilization must consist of all activities and costs for movement of personnel, equipment, and supplies/materials not used in this contract, including the disassembly, removal and site cleanup of any temporary offices, buildings, or other facilities assembled on the site for this contract. Upon completion of work, the Contractor must restore all access areas to the same conditions as prior to the start of work. The Contractor must mark the positions of each grade stake, and remove them after completion of the project. Contractor must be held responsible for accounting for 100 percent removal of all grade stakes, as they pose a serious public safety hazard as the fill erodes and any remaining stakes become exposed in the surf. All stakes should be metal pipes, so that they can be pulled out intact, and located with a metal detector, if necessary.

1.4.1.3 PAYMENT SCHEDULE

All costs connected with the mobilization and demobilization of the Contractor's personnel, equipment, supplies, and materials will be paid for the contract lump sum price for this item. 60 percent of the lump sum price will be paid to the Contractor upon completion of his mobilization to the work site. The remaining 40 percent will be included in the final payment for work under this contract.

In the event that the Contracting Officer and/or his representative (COR) considers that the amount in this item which represents mobilization (60 percent) does not bear a reasonable relation to the cost of work in this contract, the Contracting Officer may require the Contractor to produce cost data to justify this portion of his bid. Failure to justify such price to the satisfaction of the Contracting Officer/COR, will result in payment, upon completion of mobilization, of actual mobilization costs as determined from the cost data submitted by the Contractor. Payment for the remainder of this item will be included in final payment for work under this contract. The determination of the Contracting Officer/COR is not subject to appeal.

1.5 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this Contract on which the Contract unit price payments will be made are listed in the BIDDING SCHEDULE and described below. The unit price and payment made for each item listed constitutes full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

1.5.1 Excavation

1.5.1.1 Payment

Payment will be made for costs associated with excavation around the existing building at locations as depicted in the contract documents to perform the work required, which includes performing required excavation and other operations incidental thereto, Contractor-furnished disposal area(s) and disposition of excess excavated material and unsuitable and frozen materials.

1.5.1.2 Measurement

The total quantity of excavated material for which payment will be made will be the theoretical quantity between the ground surface as determined by a survey and the grade and slope of the theoretical cross sections indicated. No allowance will be made for overdepth excavation or for the removal of any material outside the required slope lines unless authorized.

1.5.1.3 Unit of Measure

Unit of measure: cubic yard.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS
11/20

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety and Health Requirements Manual

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

View Location Map; G, RO

Progress and Completion Pictures; G, RO

Preconstruction Video Recording

Preconstruction Digital Photographs

Work To Be Performed By The Contractor; G, RO

Eng Form 93; G, RO

SD-04 Samples

Construction Color Boards; G, RO

SD-05 Design Data

Periodic Construction Video Recordings

Periodic Construction Digital Photographs

Final Completion Construction Video Recordings

SD-07 Certificates

Eng Form 93; G, RO

SD-11 Closeout Submittals

Final Completion Construction Digital Photographs

1.3 COLOR BOARDS

The Contractor must submit two sets of color boards depicting samples of all finish materials and one digital pdf copy for record. The color board (finishes sample submittal package) must include all visible exterior and interior materials and finishes that are a part of the building (and/or structure) or built-in items provided under this contract. The color boards must be delivered to each of the addresses listed below in this section. The Contractor must furnish color board submittal to each of the addresses within 90 days after receipt of the notice to proceed, but more than 30 days prior to ordering finishing materials. The Contractor should obtain approval of his entire color board submission before beginning work involving final finishes. The Contractor must use the following format when assembling the color boards:

a. Provide the samples on 8-1/2 by 11 inches board modules with a maximum spread of 25-1/2 by 33 inches for foldouts. Label the modules with the project titles and design them to fit in a standard loose-leaf, three- post binder. The modules should support and anchor all samples. Anchor large or heavy samples with mechanical fasteners.

b. Organize the submittals in a logical manner to allow a fast review. Write descriptions and explanations clearly. Drawings and photographs must be clear and concise.

c. Organize samples by scheme with a separate scheme for each room or for groups of rooms with the same scheme. Coordinate the schemes by room names and numbers shown on the architectural floor plans and room finish and color schedule. Include floor plans and schedules in modules.

d. Indicate true pattern color and texture for interior material and finish samples. Carpet samples should be large enough to indicate a complete pattern or design, but not less than 3 by 5 inches.

e. Include color/finish pattern and texture for exterior materials and finishes.

f. Provide at least a 6 by 6 inches square sample where either interior or exterior special finishes, such as architectural concrete or pre-finished textured metal panels, are required. The Contracting Officer or his representative will obtain concurrence from USAG DPW prior to approving exterior finishes submitted by the Contractor.

g. Contractor to deliver above to address:

US Army Garrison, West Point Directorate of Public Works (USAG DPW)

Building 667B Ruger Road

USACE Resident Engineer – 3rd Floor

West Point, NY 10996

917.790.8477

1.4 VIEW LOCATION MAP

Submit, prior to or with the first digital photograph submittals, a sketch or drawing indicating the required photographic locations. Update as required if the locations are moved.

1.5 PROGRESS AND COMPLETION PICTURES

Photographically document site conditions prior to start of construction operations. Provide monthly, and within one month of the completion of work, digital photographs, 1600x1200x24 bit true color 12 mega pixels minimum resolution in JPEG file format showing the sequence and progress of work. Take a minimum of 20 digital photographs each week throughout the entire project from a minimum of ten different viewpoints selected by the Contractor unless otherwise directed by the Contracting Officer. Submit with the monthly invoice two sets of digital photographs, each set on a separate compact disc (CD) or data versatile disc (DVD), cumulative of all photos to date. Indicate photographs demonstrating environmental procedures. Provide photographs for each month in a separate monthly directory and name each file to indicate its location on the view location sketch. Also provide the view location sketch on the CD or DVD as a digital file. Include a date designator in file names. Photographs provided are for unrestricted use by the Government.

1.5.1 Digital Photographs

Identification: Provide the following information with each image description in file metadata tag or in web-based project software site:

a. Name of Project.
b. Name of Architect.
c. Name of Contractor.
d. Date photograph was taken.
e. Description of location, vantage point, and direction.
f. Unique sequential identifier keyed to accompanying view location map.

1.5.2 Video Recording

Video Recordings: Submit video recordings within seven days of recording.

1. Submit video recordings on CD-ROM, or by uploading to web-based project software site. Include copy of view location map indicating each video's location and direction.

2. Identification: With each submittal, provide the following information in file metadata tag or on web-based project software site:

    a. Name of Project.
    b. Name of Architect.
    c. Name of Contractor.
    d. Date photograph was taken.
    e. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

1.5.3 Formats And Media

1.5.3.1 Digital Photographs

As indicated above.

1.5.3.2 Digital Video Recordings

Provide high-resolution, digital video in MPEG format, produced by a digital camera with minimum sensor resolution of 12 megapixels and capable of recording in full high-definition mode with vibration-reduction technology. Provide supplemental lighting in low light levels or backlit conditions.

1.5.3.3 Digital Images

Submit digital media as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software

1.5.3.4 Metadata

Record accurate date and time from camera

1.5.3.5 File Names

Name media files with date and Project name and sequential numbering suffix

1.5.4 Construction Photographs

1.5.4.1 General

Take photographs with maximum depth of field and in focus.

1. Maintain view location map with each set of construction photographs that identifies each photographic location.

1.5.4.2 Preconstruction Digital Photographs

Before commencement of preservation and construction activities, take photographs of Project site and surrounding areas, including existing items to remain during construction, from different vantage points, as directed by Architect and Historic Preservation Consultant.

1.5.4.3 Periodic Construction Digital Photographs

Take representative progress photographs once work commences. Select vantage points to show status of construction and progress since last photographs were taken.

1.5.4.4 Final Completion Construction Digital Photographs

Take photographs after date of Substantial Completion for submission as Project Record Documents. Architect and Historic Preservation Consultant will inform photographer of desired vantage points

1.5.5 Construction Video Recordings

1.5.5.1 Narration

Describe scenes on video recording by audio narration by microphone while, or dubbing audio narration off-site after video recording is recorded. Include description of items being viewed, recent events, and planned activities. At each change in location, describe vantage point, location, direction (by compass point), and elevation or story of construction.

1. Confirm date and time at beginning and end of recording.
2. Begin each video recording with name of Project, Contractor's name, and Project location.

1.5.5.2 Preconstruction Video Recording

Before starting construction, record video recording of Project site and surrounding areas from different vantage points, as directed by Architect.

1. Show existing conditions adjacent to Project site before starting the Work.
2. Show protection efforts by Contractor.

1.5.5.3 Periodic Construction Video Recordings

Record video recordings at vantage points to show status of construction and progress since last video recordings were recorded.

1.5.5.4 Final Completion Construction Video Recordings

Record video recordings at vantage points to show the final construction and completion.

1.6 MINIMUM INSURANCE REQUIREMENTS

Provide the minimum insurance coverage required by FAR 28.307-2 Liability, during the entire period of performance under this contract. Provide other insurance coverage as required by State law.

a. Procure and maintain during the entire period of project performance under this contract the following insurance policies:

(1) Commercial General Liability Insurance as required by FAR 28.307-2

(2) The policies described above must be endorsed (i) to include National Park Service (NPS) and New York State Department of Environmental Conservation (NYSDEC) as additional insured and (ii) to provide that notice of an occurrence to the insurance company from any insured will serve as notice from all insured.

(3) Comprehensive Automobile Liability Insurance as required by FAR 28.307-2

(4) Certificates of Insurance evidencing the issuance of all insurance required hereby, and guaranteeing at least thirty (30) days prior notice to the Government of cancellation or non-renewal, must be delivered to the Contracting Officer, NPS and NYSDEC prior to entry of the Government's Contractors upon the project area, or, in the case of new or renewal policies replacing any policies

expiring during the period, no later than thirty (30) days before the expiration dates of such expiring policies.

b. Prior to the commencement of work hereunder, provide to the Contracting Officer a certificate or statement of the above required insurance. The policies evidencing required insurance must contain an endorsement to the effect that cancellation or any material change in the policies adversely affecting the interests of the Government in such insurance must not be effective for such a period as may be prescribed by the laws of the State in which this contract is to be performed and in no event less than thirty (30) days after written notice thereof to the Contracting Officer.

c. The Contractor must insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and must require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor must maintain a copy of all subcontractors' proofs of required insurance, and must make copies available to the Contracting Officer upon request.

d. This insurance will be included at no additional cost to the government.

1.7 CONTRACTOR'S KEY MANAGEMENT PERSONNEL

The following Key Management Personnel, must be employed for the full duration of the contract and meet the minimum requirements described herein. All Key Management Personnel Qualifications are to be submitted at the Preconstruction Conference and are subject to Contracting Officer Approval.

KEY MANAGEMENT PERSONNEL MATRIX	
Personnel/Quantity	Qualifications
Contractor's Superintendent: (Overall Field Manager Responsible for Construction)	Refer to the Superintendent Qualifications paragraph.
Quantity: One	

KEY MANAGEMENT PERSONNEL MATRIX	
Personnel/Quantity	Qualifications
Assistant Superintendents: (Field Manager Responsible for Construction - Assistant) Quantity: Two	(1) Same duties as Superintendent above but acts as assistant (not the lead). (2) Minimum of ten (10) years of experience in similar size project as a project superintendent. (3) Performs all subcontract management/superintendent duties required of the Contractor, and duties required under contract clause titled SUPERINTENDENCE OF SUBCONTRACTORS. (4) Serves as the alternate in the event the Superintendent is absent.

KEY MANAGEMENT PERSONNEL MATRIX	
Personnel/Quantity	Qualifications
Contractor's Quality Control System Manager: (Manager of Field Quality Control Personnel) Quantity: One	(1) Performs all quality control management duties required of the Contractor (reference Section 01 45 00.00 10). (2) Serves as the Governments' sole point of contact in all matters relating to the quality of the work including, but not limited to, contract compliance and testing procedures. (3) Has no other duties except Quality Control. (4) Attends all job meetings. (5) On site at all times during construction activities. (6) Reports all deficiencies to the Government and the Contractor's Project Manager for correction. (7) Works directly under, and is responsible to, an officer of the Contractor at least one level higher than the Contractor's Project Manager. (8) Minimum of fifteen (15) years of construction experience in similar size project. (9) Manager of Field Quality Control Personnel indicated in sections e., f., and all additional staff required under the CQC Personnel experience matrix per Section 01 45 00.00 10. (10) The CQC Manager and CQC organization is solely responsible for certifying that all submittals and deliverables are in compliance with the contract requirements.

KEY MANAGEMENT PERSONNEL MATRIX	
Personnel/Quantity	Qualifications
Contractor's Assistant Quality Control System Manager (Mechanical and Electrical Quality Control Personnel) Quantity: One each	(1) Same duties as Contractor's Quality Control System Manager above but acts as assistant (not the lead). (2) Has no other duties except Quality Control. Acts as assistant to the overall quality control manager. (3) Attends all job meetings. (4) On site at all times during MEP construction activities. (5) Reports all deficiencies to the Government and the Contractor's Project Manager for correction. (6) Works directly under, and is responsible to, an officer of the Contractor at least one level higher than the Contractor's Project Manager. (7) Minimum of ten (10) years of construction experience in similar size project with knowledge and experience specifically in the disciplines of Mechanical and Electrical.
Site Safety and Health Officer: (Principal in Charge of Enforcing Safety Codes) Quantity: One	Refer to Section 01 35 26 SAFETY AND OCCUPATIONAL HEALTH REQUIREMENTS, Site Safety and Health Officer (SSHO) paragraph
Cybersecurity Representative Quantity: One	(1) This individual will oversee all work within specification Division 25 (2) Minimum of five (5) years experience in similar size projects securing DoD systems and with Risk Management Framework (3) Must have current Information Assurance Manager Level II Certification in accordance with with DODD 8140 Cybersecurity Workforce Managment and DODI 8570 Information Workforce Improvement Program.

1.8 SUPERVISION

1.8.1 Superintendent Qualifications

Provide project superintendent with a minimum of 20 years experience in construction with at least 15 of those years as a superintendent on projects similar in size and complexity. The individual must be familiar with the requirements of EM 385-1-1 and have experience in the areas of hazard identification and safety compliance. The individual must be capable of interpreting a critical path schedule and construction drawings. The qualification requirements for the alternate superintendent are the same as for the project superintendent. The Contracting Officer may request proof of the superintendent's qualifications at any point in the project if the performance of the superintendent is in question.

1.8.2 Minimum Communication Requirements

Have at least one qualified superintendent, or competent alternate, capable of reading, writing, and conversing fluently in the English language, on the job-site at all times during the performance of Contract work.In addition, if a Quality Control (QC) representative is required on the Contract, then that individual must also have fluent English communication skills.

1.8.3 Duties

The project superintendent is primarily responsible for managing subcontractors and coordinating day-to-day production and schedule adherence on the project. The superintendent is required to attend partnering meetings, and quality control meetings. The superintendent or qualified alternative must be on-site at all times during the performance of this contract until the work is completed and accepted.

1.8.4 Assistant Superintendent Qualification

Refer to KEY MANAGEMENT PERSONNEL MATRIX.

1.8.5 Non-Compliance Actions

The Project Superintendent is subject to removal by the Contracting Officer for non-compliance with requirements specified in the contract and for failure to manage the project to ensure timely completion. Furthermore, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders is acceptable as the subject of claim for extension of time for excess costs or damages by the Contractor.

1.9 PHYSICAL CONDITIONS

The information and data provided or referred to below are not intended as representations or warranties but are provided for information only. It is expressly understood that the Government will not be responsible for the accuracy thereof or for deductions, interpretation or conclusion drawn there from by the Contractor.

a. Weather Conditions: Climatological data determined from records of the U.S. Weather Bureau Station: Newburgh/Stewart, NY

Mean Annual Temperature: 51.9 degrees Fahrenheit
Mean Annual Precipitation: 46.1 inches

b. TRANSPORTATION.

1. Transportation Facilities:

Highways and Roads: All deliveries must proceed through the Stony Lonesome Gate Entrance to the United States Military Academy. The Contractor will be responsible for coordinating all deliveries with the installation. Roads within the military reservation proposed to be used by the Contractor, must be subject to prior approval of the post authorities and such roads, if used, must be maintained throughout construction and must be restored to as good condition as existed prior to their use. All costs for the use of existing transportation facilities, for the construction of temporary facilities, and for maintenance, repair, removal and restoration must be borne by the Contractor. The roads system on the installation is inclusive of vehicular bridges. The Contractor is responsible for following all applicable weight restrictions for the vehicular bridges on post. Loading of a vehicular bridge in excess of its rated load requires an oversized load from the asset Owner.

Transportation for or rock removal only, construction vehicles loaded with rock to be removed from West Point are permitted to exit the Thayer Gate. All municipal, County, and State road rules and regulations must be adhered to. These vehicles must enter the Stony Lonesome gate similar to all other construction vehicles. Refer to the drawings for construction travel routes.

2. Railroads: Conrail serves the locality of the proposed work. Railhead is located approximately 15 miles from the project site. The Contractor must make all arrangements at his expense for the use of sidings necessary for the delivery of materials, equipment, supplies, and other facilities required for completion of the work. The Contractor's use of sidings must be arranged so as not to interrupt or delay the operation of the Military reservation.

1.10 SUBMITTAL OF WORK TO BE PERFORMED BY THE CONTRACTOR

Provide the Contracting Officer, within five days after award, items of work to be performed by Contractor's employees and the estimated cost of those items. For the purposes of this contract, the percentage of work that must be performed by the Contractor is stated in Section 00 72 00 Contract Clauses, FAR Clause 52.236-01.

1.11 VETERANS EMPLOYMENT EMPHASIS FOR U.S. ARMY CORPS OF ENGINEERS CONTRACTS

In addition to complying with the requirements outlined in FAR Part 22.13, FAR Provision 52.222-38, FAR Clause 52.222-35, FAR Clause 52.222-37, DFARS 222.13 and Department of Labor regulations, U.S. Army Corps of Engineers (USACE) Contractors and subcontractors at all tiers are encouraged to promote the training and employment of U.S. veterans while performing under a USACE contract. While no set-aside, evaluation preference, or incentive applies to the solicitation or performance under the resultant contract, USACE Contractors are encouraged to seek out highly qualified veterans to perform services under this contract.

The following resources are available to assist USACE Contractors in their outreach efforts:

Federal Veteran employment information at
http://www.fedshirevets.gov/index.aspx
Department of Labor Veterans Employment Assistance
https://www.dol.gov/vets/
Department of Veterans Affairs-VOW to Hire Heroes Act
http://benefits.va.gov/vow/
Army Wounded Warrior Program-
http://wtc.army.mil/modules/employers/index.html
U.S. Chamber of Commerce Foundation-Hiring Our Heroes
http://www.hiringourheroes.org/

1.12 SUPERINTENDENCE OF SUBCONTRACTORS

a. Provide the following, in addition to the superintendence required by FAR Clause 52.236-6 - Superintendence by the Contractor.

(1) If more than 50 percent and less than 70 percent of the value of the contract work is subcontracted, One superintendent must be provided at the site and on the Contractor’s payroll to be responsible for coordinating, directing, inspecting and expediting the subcontract work.
(2) If 70 percent or more of the value of the work is subcontracted, the Contractor must be required To provide two such superintendents to be responsible for coordinating, directing, inspecting and expediting the subcontract work.

b. If the Contracting Officer, at any time after 50 percent of the subcontracted work has been completed, finds that satisfactory progress is being made, he may waive all or part of the above requirement for additional superintendence subject to the right of the Contracting Officer to reinstate such requirement if at any time during the progress of the remaining work he finds that satisfactory progress is not being made.

1.13 PRECONSTRUCTION CONFERENCE

Immediately after award, prior to commencing any work at the site, coordinate with the Contracting Officer a time and place to meet for the Preconstruction Conference. The conference must take place within 35 calendar days after award of the contract, but prior to commencement of any work at the site. The purpose of this conference is to discuss and develop a mutual understanding of the administrative requirements of the Contract including but not limited to: daily reporting, invoicing, value engineering, safety, base-access, outage requests, hot work permits, schedule requirements, quality control, schedule of prices or earned value report, shop drawings, submittals, cybersecurity, prosecution of the work, government acceptance, final inspections and contract close-out. Contractor must present and discuss their basic approach to scheduling the construction work and any required phasing.

The Contractor must provide at this conference the following items as indicated:

a. Initial Project Schedule; section 01 32 01.00 10 Project Schedule

b. Accident Prevention Plan (APP); section 01 35 26 Governmental Safety Requirements

c. Contractor Quality Control (CQC) Plan; section 01 45 00.00 10 Quality Control

d. List of Contact Personnel; section 01 14 00 Work Restrictions

e. Letter appointing Superintendent

f. Detailed Concept of Operations Plan

1.13.1 Attendees

Contractor attendees must include the Project Manager, Superintendent, Site Safety and Health Officer (SSHO), Quality Control Manager and major subcontractors.

1.14 COORDINATION PERIOD

In addition to contract clause titled PRECONSTRUCTION CONFERENCE, the Contractor must reserve a 2 workday period of time no later than one month following the contract preconstruction conference for coordination. The Contractor's project management team responsible for this project must participate. During the 2-day coordination period the Contractor and the Government will exchange information related to the government regulations and procedures, points of contact, relevant design information and general discussion about the execution and coordination of the project. The Contractor must dedicate his management team for this 2-day coordination period.

1.15 CONNECTION WITH WORK OF OTHER CONTRACTS

During the period of this contract, other contracts may be in force for the construction of other features of work on or adjacent to the site of work being accomplished under this contract. The Contractor must arrange his plant and must schedule and perform the work as to effectively cooperate with all other contractors and Government agencies. It is the Contractor's responsibility to know the extent of the limits of his contract. No direct or extra compensation will be allowed on account of the cooperation required.

a. At all points of connection with work of other contracts, the Contractor must have weekly coordination meetings until all connections have been completed with the adjoining Contractor(s) to insure proper and timely connections.

b. Where the work under this contract is completed before that of the adjoining Contractor, the Contractor must terminate his work in an approved manner ready for future connection by the adjoining Contractor. Pipes and conduits must be closed with suitable caps or plugs that will prevent entry of dirt or debris, but that are readily removable when final connections are made. For underground lines that are back-filled, approved type markers that extend above the ground surface must be provided to facilitate future location of the lines by the adjoining contract.

c. Where the work of the adjoining Contractor is already in place, the Contractor must perform all work required to effect the necessary

connection, including locations of underground lines, removing of caps, providing necessary adapters or joining pieces, and all related incidental work for necessary for a proper, secure connection.

d. As USAG DPW continues to utilize and award utility privatization contracts, the Contractor is expected to coordinate with the utility system owners and their standard operating procedures. The Contractor must coordinate at the time of award and continuously over the course of the project to ensure the construction schedule properly encompasses Primary Utility Contractor's schedule. The Contractor is to designate an authorized representative to be responsible for the coordination with the utility system owner, preparation of the schedule and all required updating. The project schedule is to demonstrate the proposed sequence to perform the work and dates contemplated for starting and completing all schedule activities of the privatized utility provider. Activities associated with the procurement, fabrication, and delivery of long lead materials, equipment, fabricated assemblies, and supplies are to be included in the schedule.

Contractor must assume that the project construction schedule will shift and must be able to adjust the schedule's relationship with the utility provider's schedule accordingly. Ongoing coordination with the Privatized Utility Owner, to include working interactive exchange of idea and periodic schedule update meetings are expected.

1.16 COORDINATION OF TRADES

a. The contract drawings are in part diagrammatic and show the general arrangement of duct, piping and other mechanical and electrical trades. The Contractor must have a competent engineer on the project site to coordinate all fieldwork and shop drawings of the various trades prior to installation and/or submission of field or shop drawings for approval. The Contractor must allot spaces to the various trades prior to installation of the work. In spaces where all the various installations cannot be accommodated, the Contractor must notify the Contracting Officer and must submit alternate solutions as to its solution at no cost to the Government. The decision of the Contracting Officer must be final.

b. The Contractor must be responsible for the coordinated drawings of the various trades showing locations and sizes of all sleeves, electric outlets, inserts, piping, shafts, hangers, lights, ducts, catwalks, pads, chases, sprinklers, smoke detectors, soffits, fascias, steel trusses, blocking, high-density storage components/rails, etc. Composite signed-off coordinated shop drawings must be developed at 3/8" equals 1'-0 scale showing all mechanical electrical work in hung ceilings and chases.

1.17 CERTIFICATES OF COMPLIANCE

Any certificates required for demonstrating proof of compliance of materials with specification requirements must be executed in 4 copies. Each certificates must be signed by an official authorized to certify in behalf of the manufacturing company and must contain the name and address of the Contractor, the project name and location, and the quantity and date or dates of shipment or delivery to which the certification apply. Copies of laboratory tests reports submitted with certificates must contain the name and address of the testing laboratory and the date or

dates of the tests to which the report applies. Certification must not be construed as relieving the Contractor from furnishing satisfying material, if, after tests are performed on selected samples, the material is found not to meet the specific requirements

1.18 NO WAIVER BY GOVERNMENT

The failure of the Government, in any one or more instances, to insist upon the strict performance of any of the terms of this Contract or to exercise any option herein conferred must not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon such terms or option on any future occasion.

1.19 PROGRESS PAYMENTS

See FAR Clause 52.232-16 PROGRESS PAYMENTS for any item of work in the bid schedule.

1.20 PROCEDURES FOR SUBMISSION AND PAYMENT OF ALL CONTRACT PAYMENTS

In addition to the requirements contained in the Contract Clause entitled "PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS" and to implement the requirements of the Prompt Payment Act Amendments of 1988, P.L. 100-496, the following must apply to all payments made under this contract:

a. At the time of submission of the progress chart, the Contractor must submit for approval by the Contracting Officer or his authorized representative a breakdown of the contract work which must be to the degree of detail required by the Contracting Officer or his representative to effect reasonable progress payments. The Contracting Officer or his representative must review this breakdown within 30 calendar days after receipt and either advise the Contractor that it is approved or disapproved, and if disapproved the reasons for disapproval. Only after the breakdown is approved must any payment invoice be accepted from the Contractor and any payment made to him. The Contracting Officer can determine if it is in the best interest of the Government to make payment without an approved breakdown, however, in no case could be more than 10 percent of the contract amount be paid unless the breakdown is approved.

b. The Contractor must submit his request for payment by submission of a proper invoice to the office or Person(s) designated in subparagraph (c). For purposes of payment a "proper invoice" is defined as the following:

(1) An estimate of the work completed in accordance with the approved breakdown indicating the percentage of work of each item and the associated costs.

(2) A properly completed Eng Form 93 and 93a (where required).

(3) All contractual submissions indicated elsewhere in this contract to be submitted with payment, such as updated progress schedules, updated submittal registers, etc.

(4) The following certification executed by a responsible official of the organization authorized to bind the firm. A "responsible official" would be either a corporate officer, partner, or owner, in the case of a sole proprietorship I hereby certify, to the best

of my knowledge and belief, that --

(a) The amounts requested are only for performance in accordance with the specifications, terms and conditions of the contract;

(b) Payments to subcontractors and suppliers have been made from previous payments received under the contract and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract requirements and the requirements of chapter 39 of Title 31, United States Code; and

(c) This request for progress payments does not include any amounts, which the prime Contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

(d) All required prime and subcontractor payrolls have been submitted.

(Name)_____

(Title)_____

(Date)_____

c. The Government will designate the office or person(s) who will first receive the invoice submissions and the Contractor will be so notified at the preconstruction conference. In addition to the designated Project Engineer, the Contractor must at the same time submit one copy of the detailed breakdown and the Eng Form 93 and 93a Form to the Area Engineer.

d. The Government representative will return any request for payment which is deemed defective within 7 days of receipt and will specify the defects. If the defect concerns a disagreement as to the amount of work performed and/or the amount of the payment being submitted, the Government and the Contractor's representative should meet to resolve the differences and reach agreement. Upon agreement, the Contractor must submit a new breakdown and Eng Form 93 (and 93a) and any other submissions requiring correction. These will be incorporated with the previous submittal and will then constitute a proper invoice.

e. If agreement cannot be reached, the Government must determine the proper amount per Contract Clause, PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS and process the payment accordingly. In this event, a "proper invoice" for Prompt Payment Act purposes will not have been submitted to the Government.

f. The Government must pay the Contractor in accordance with the following time frames:

(1) Progress Payments - From the date a "proper invoice" is received, in accordance with subparagraphs b and d of this clause, the Government will issue a check within 14 calendar days.

(2) Reduction in Retainage Payment. If during the course of the contract, a reduction in retainage payment is required, the Government will issue a check within 30 calendar days after the

approval of the release to the Contractor by the Contracting Officer or his authorized representative.

(3) Final Payment. A final payment request will not be considered valid until the Contractor has fulfilled all contract requirements including all administrative items, payrolls, warranties, etc. and has submitted a release of claims. When the Contractor has fulfilled all contract requirements and a "proper invoice" has been submitted, the Government will issue a check within 30 days from the date of acceptance of the project by the Contracting Officer.

1.21 SUBMISSION OF CLAIMS

The following must be submitted to the Contracting Officer at the following address: U.S. Army Corps of Engineers, Room 16-300, New York District, 26 Federal Plaza, New York, New York 10278-0090:

a. claims referencing or mentioning the Contracting Disputes Act of 1978

b. requests for a written decision by the Contracting Officer

c. claims certified in accordance with the Contract Disputes Act of 1978

No other Government representative is authorized to accept such requests. A copy must also be provided to the Authorized Representative of the Contracting Officer.

Provide the Contracting Officer with a copy of any requests for additional time, money or interpretation of contract requirements which were provided to the Authorized Representative of the Contracting Officer and which have not been resolved after 90 days.

1.22 PRICING OF ADJUSTMENT

When costs are a factor in any determination of a contract price adjustment pursuant to the Changes clause or any other clause of this contract, such costs must be in accordance with Part 31 of the Federal Acquisition Regulation and DFARS 252.215-7000 (Dec. 1991) as follows:

PRICE ADJUSTMENTS (DEC 2012)

The term “pricing adjustments”, as used in paragraph (a) of the clauses entitled “Price Reduction for Defective Certified Cost or Pricing Data-Modifications”, “Subcontractor Certified Cost or Pricing Data,” and “Subcontractor Certified Cost or Pricing Data- Modifications,” means the aggregate increases and/or decreases in cost plus applicable profits.

1.23 PAYMENTS FOR MATERIALS DELIVERED OFF-SITE (52.232-5000)

(a) Pursuant to FAR 52.232-5, Payments Under Fixed Price Construction Contracts, materials delivered to the Contractor at locations other than the site of the work may be taken into consideration in making payments if included in payment estimates and if all the conditions of the General Provisions are fulfilled. Payment for items delivered to locations other than the work site must be limited to:

(1) Materials required by the technical provisions; or

(2) Materials that have been fabricated to the point where they are identifiable to an item of work required under this contract; or

(3) Items specifically listed below.

(b) Payment for materials delivered off-site must be made only after receipt of paid invoices listing the value of material and labor incorporated in the items along with a canceled check showing the prime Contractor’s title to the items delivered off site.

1.24 LABOR-ADDITIONAL REQUIREMENTS

Fringe benefits statement: The method of payment of applicable fringe benefits will be indicated on DD Form 879, Statement of Compliance, and attached to each weekly payroll.

1.25 (S-102) CONTRACTOR SUPPLY and USE OF ELECTRONIC SOFTWARE FOR PROCESSING DAVIS-BACON ACT CERTIFIED LABOR PAYROLLS (April 2011)

The Contractor is encouraged to use a commercially-available electronic system to process and submit certified payrolls electronically to the Government. The requirements for preparing, processing and providing certified labor payrolls are established by the Davis-Bacon Act as stated in FAR 52.222-8, PAYROLLS AND BASIC RECORDS and FAR 52.222-13, COMPLIANCE WITH DAVIS-BACON AND RELATED ACT REGULATIONS.

If the Contractor elects to use an electronic Davis-Bacon payroll processing system, then the Contractor must be responsible for obtaining and providing for all access, licenses, and other services required to provide for receipt, processing, certifying, electronically transmitting to the Government, and storing weekly payrolls and other data required for the Contractor to comply with Davis-Bacon and related Act regulations. When the Contractor uses an electronic Davis-Bacon payroll system, the electronic payroll service must be used by the Contractor to prepare, process, and maintain the relevant payrolls and basic records during all work under this construction contract and the electronic payroll service must be capable of preserving these payrolls and related basic records for the required three years after contract completion. If the Contractor chooses to use an electronic Davis-Bacon payroll system, then the Contractor must obtain and provide electronic system access to the Government, as required to comply with the Davis-Bacon and related Act regulations over the duration of this construction contract. The access must include electronic review access by the Government contract administration office to the electronic payroll processing system used by the Contractor.

The Contractor's provision and use of an electronic payroll processing system must meet the following basic functional criteria: commercially available; compliant with appropriate Davis Bacon Act payroll provisions in the FAR; able to accommodate the required numbers of employees and subcontractors planned to be employed under the contract; capable of producing an Excel spreadsheet-compatible electronic output of weekly payroll records (format at http://www.rmssupport.com/guides.aspx) for export in an Excel spreadsheet to be imported into the Contractor's Quality Control System (QCS) version of RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE (RMS CM), that in turn must export payroll data to the Government's RESIDENT MANAGEMENT SYSTEM (RMS); demonstrated security of data and data entry rights; ability to produce Contractor-certified electronic versions of weekly payroll data; ability to identify erroneous

entries and track the data/time of all versions of the certified Davis Bacon payrolls submitted to the government over the life of the contract; capable of generating a durable record copy, that is, a CD or DVD and PDF file record of data from the system database at end of the contract closeout. This durable record copy of data from the electronic Davis-Bacon payroll processing system must be provided to the Government during contract closeout.

All Contractor-incurred costs related to the Contractor's provision and use of an electronic payroll processing service must be included in the Contractor's price for the overall work under the contract. The costs for Davis-Bacon Act compliance using electronic payroll processing services must not be a separately bid/proposed or reimbursed item under this contract.

1.26 BID GUARANTEE

See contract clause entitled BID GUARANTEE in Specifications section 00 72 00 CONTRACT CLAUSES.

1.27 DESIGNATION OF PROPERTY ADMINISTRATOR

The Chief, Property and Accounting Section, U.S. Army Engineer District, New York, Federal Building, 26 Federal Plaza, New York, N.Y. 10278-0090 is designated as Property Administrator, in connection with this contract.

1.28 EQUAL OPPORTUNITY PREAWARD CLEARANCE OF SUBCONTRACTORS

Notwithstanding the clause of this contract entitled “Subcontracts”, the Contractor must not enter into a first-tier subcontract for an estimated or actual amount of $1 million or more without obtaining in writing from the Contracting Officer a clearance that the proposed subcontractor is in compliance with the equal opportunity requirements and therefore is eligible for award.

1.29 DAMAGE TO WORK

The responsibility for damage to any part of the permanent work must be as set forth in the article of the contract clause entitled "PERMITS AND RESPONSIBILITIES". However, if in the judgment of the Contracting Officer, any part of the permanent work performed by the Contractor is damaged by flood, earthquake, hurricane, severe coastal storm or tornado, which damage is not due to the failure of the Contractor to take reasonable precautions or to exercise sound engineering and construction practices in the conduct of the work, the Contractor will make the repairs as ordered by the Contracting Officer and full compensation for such repairs will be made at the applicable Contract unit or lump-sum prices as fixed and established in the Contract. If, in the opinion of the Contracting Officer, there are no Contract unit or lump sum prices applicable to any part of such work, an equitable adjustment, pursuant to Contract Clause entitled CHANGES, will be made as full compensation for the repairs of that part of the permanent work for which there are not applicable Contract unit or lump-sum prices. Except as herein provided, damage to all work, utilities, materials, equipment, and plant, including temporary construction and utilities, pavements, and other property along the routes used by the Contractor's pipelines and/or land vehicles, must be repaired to the satisfaction of the Contracting Officer, the State of New York, and the utilities companies, at the Contractor's expense regardless of the cause of such damage.

1.30 VERIFICATION OF SMALL BUSINESS UTILIZATION

a. This clause is applicable to small business concerns whose contracts exceed $1,000,000.

b. In accordance with the clause at FAR 52.219-8, entitled UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL DISADVANTAGED BUSINESS CONCERNS, in effect on the date of this contract, the Contracting Officer may survey the extent of small and small disadvantaged business utilization under this contract. The Contractor may be required to report to the Contracting Officer statistical data on the number and dollars amounts of subcontracting awards with small businesses and small disadvantaged businesses.

c. As appropriate, the Contracting Officer may require one or more follow-up reports to the initial report.

d. The Contractor agrees to insert this clause in any subcontract that may exceed $1,000,000, including this subparagraph (d).

1.31 FAR 52.211-12, LIQUIDATED DAMAGES--CONSTRUCTION

For liquidated damages amount see FAR Clause 52.211-12 in the Solicitation.

Note: LD information will now be provided by Contracting Officer to avoid duplication.

1.32 PERFORMANCE EVALUATION OF CONTRACTOR

(a) As a minimum, the Contractor's performance will be evaluated upon final acceptance of the work. However, interim evaluation may be prepared at any time during contract performance when determined to be in the best interest of the Government.

(b) The format for the evaluation will be SF Form 2626, and the Contractor will be rated, either, outstanding, satisfactory, or unsatisfactory in the areas of Contractor Quality Control, Timely Performance, Effectiveness of Management, Compliance with Labor Standards, and Compliance with Safety Standards. The Contractor will be advised of any unsatisfactory rating, either in an individual element or in the overall rating, prior to completing the evaluation, and all Contractor comments will be made a part of the official record. Performance Evaluation Reports will be available to all DOD Contracting Offices for their future use in determining Contractor responsibility, in compliance with DFARS 236.201.

(c) A similar evaluation for subcontractors will be prepared if the Government deems it to be appropriate.

1.33 RED ZONE MEETINGS

Towards the end of the construction contract, conduct red zone meetings to discuss known construction issues before beneficial occupancy. Coordinate with the Contracting Officer to schedule these meetings. Attendees must include the Contractor representatives, Contracting Officer, customer, and others as appropriate. The meeting will be scheduled at least 60 days from the scheduled Beneficial Occupancy Date (BOD) or at 80 percent construction completion.

The meeting agenda should include, but not be limited to the following:

a. Status of progress vs. schedule of the project.

b. Pending modifications, time extensions, etc.

c. Submittals -O&M Manuals and as-built drawings.

d. Warranty information and periods, transfer procedures and responsibilities, and security requirements and key transfer.

e. Posting equipment instructions, training requirements for maintenance personnel, and pre-final and final inspection procedures.

f. HVAC Commissioning, Building Commissioning, and Enhanced Commissioning.

g. Correction of deficiencies (timely).

h. Status of payroll requirements.

i. Withholding of payments for outstanding deficiencies.

j. Liquidated damages.

k. Fiscal Items - Modifications required for BOD, post BOD modifications, mods funded by MIPRS.

l. On Military Contracts - DD Form 1354 coding requirements discussed with the Real Property Accountable Officer.

m. Joint occupancy requirements / fit-out / follow-on Contractor coordination issues.

n. LEED notebook.

o. Refer to attachment A - INITIAL RED ZONE MEETING CHECKLIST.

1.34 PARTNERING

To most effectively accomplish this Contract, the Contractor and Government must form a cohesive partnership with the common goal of drawing on the strength of each organization in an effort to achieve a successful project without safety mishaps, conforming to the Contract, within budget and on schedule. The partnering team must consist of personnel from both the Government and Contractor including project level and corporate level leadership positions. Key Personnel from the supported command, end user, Contractor, key subcontractors and the Designer of Record are required to participate in the Partnering process.

1.34.1 Facilitated (Formal) Partnering

a. Within 35 calendar days after award and prior to the start of work, host a Formal Partnering session with key personnel from the project team including both Contractor and Government personnel. The Contractor should plan for the attendance of approximately 15 to 20 individuals from the Government, local community representatives, NYSDEC in addition to the Contractor's and subcontractor's personnel. All costs associated with the Partnering session including the

third-party independent Facilitator Consultant, meeting room and other incidental items are the responsibility of the Contractor.

b. Before the Facilitated (Formal) Partnering session, coordinate with the Facilitator all requirements for incidental items (such as audio-visual equipment, easels, flipchart paper, colored markers, note pads, pens/pencils, colored flash cards) and have these items available at the Partnering session. Provide copies of any documents required for distribution to all attendees. Participants will bear their own costs for meals, lodging and transportation associated with Partnering.

c. The Initial Partnering Session must be a duration of one day and be held at a location off base as agreed to by the Contracting Officer. Partnering session may take place concurrently with the Pre-Construction conference.

d. Facilitator must be experienced in conducting corporate Partnering sessions and must be a third-party independent facilitating consultant - not an employee of the Contractor. The Facilitator is responsible for leading all aspects of the Partnering session necessary to achieve the Partnering goal.

e. An outcome of the Partnering session must be an escalation matrix agreed upon by both the Government and Contractor, which identifies key Government and Contractor decision makers by name and anticipated decision durations.

f. Host follow-on Partnering Sessions at three- to six-month intervals or more frequently if needed and lasting generally a half day or less. Attendees need only be those required to resolve current issues. The same Facilitator used in the Initial Partnering session must lead the follow-on sessions unless an alternative is permitted by the Contractor Officer. All costs associated with follow-on Partnering sessions are the responsibility of the Contractor.

g. Provide a completed partnering agreement to all participants within 30 days of partnering session.

1.35 GENERAL MEETING REQUIREMENTS

1.35.1 Preparatory and Initial Phase meeting checklists

See Section 01 45 00.00 10 QUALITY CONTROL for Preparatory and Initial Phase meeting checklists. The Contractor is responsible for phase and progress meetings to include:

a. Meeting notification to participants

b. Prepare agenda for meetings

c. Use phase checklists for Preparatory and Initial Phase meetings

d. Physical arrangements for meetings

e. Preside at meetings

f. Record minutes recording proceedings and decisions

g. Copy and send minutes to:

(1) Meeting participants

(2) Project parties affected by decisions

(3) Contracting Officer (No later than 3 working days)

1.35.2 Weekly Progress Meetings Agenda

See section 01 32 01.00 10 PROJECT SCHEDULE for the weekly progress meeting. Modify the agenda as needed for on-going work.

a. Review minutes from previous progress meetings

b. Review RMS CM Contractor Action Item Report

c. Review work progress since previous meeting

d. Review current definable features of work:

-- Identify phases of current features of work

-- Identify pending phase changes

-- Identify features for discussion in next scheduled meeting

e. Discuss problem prevention:

(1) Field observations

(2) Deficiencies and tracking

(3) Procedures working well

(4) Problems, conflicts

(5) Methods to improve

f. Review construction schedule:

(1) Identify delays

(2) Discuss proposed corrective actions to regain schedule

g. Submittals and Requests for Information (design interpretation):

(1) Review submittal register

(2) Identify submittals to expedite as required

h. Review off-site activities:

(1) Fabrications

(2) Material and equipment delivery schedule

i. Review Testing:

(1) Type, Schedule

(2) Received Results

j. Review changes to construction schedule:

(1) Planned progress during succeeding work period

(2) Coordination of various schedules

(3) Effect of changes on construction and completion date

k. Review site safety

l. Discuss maintaining contract quality for materials and workmanship

m. Discuss pending modifications, changes, and substitutions

n. Discuss other business, as appropriate

1.36 ELECTRONIC MAIL (E-MAIL) ADDRESS

Establish and maintain electronic mail (e-mail) capability along with the capability to open various electronic attachments as text files, pdf files, and other similar formats. Within 10 days after contract award, provide the Contracting Officer the email addresses required for electronic communications from the Contracting Officer related to this contract including, but not limited to contract documents, invoice information, request for proposals, and other correspondence.

The Contracting Officer may also use email to notify the Contractor of base access conditions when emergency conditions warrant, such as hurricanes or terrorist threats.

Multiple email addresses are not allowed. It is the Contractor's responsibility to make timely distribution of all Contracting Officer initiated e-mail with its own organization including field office(s). Promptly notify the Contracting Officer, in writing, of any changes to this email address.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

G/C	#	ACTIVITY DESCRIPTION	ACTION OFFICER	DUE DATE	STATUS			ACTUAL COMPLETION DATE	COMMENTS
					Working	Urgent	Complete		
G+C	1	Above Ceiling Inspection (conducted, deficiencies cleared, completed)							
G+C	2	Above Ceiling Inspection (conducted, deficiencies cleared, completed)							
G+C	3	Above Ceiling Inspection (conducted, deficiencies cleared, completed)							
G+C	4	Above Ceiling Inspection (conducted, deficiencies cleared, completed)							
G+C	5	Above Ceiling Inspection (conducted, deficiencies cleared, completed)							
G+C	6	Above Ceiling Inspection (conducted, deficiencies cleared, completed)							
G+C	7	CQX/QA Mechanical & Electrical Systems Testing (conducted, verified)							
G+C	8	Commissioning (preliminary, functional & final testing of systems completed, pre-commissioning plan submitted, approved, team identified, coordinated w/CX reps, test records, reports submitted)							
C	9	Valve Tags, Charts, Diagrams (approved tags, posted properly)							
G+C	10	Communications (installation of phone, cable, fiber optics, testing, coordinate punch-out w/DPW/BCE Communications or other contractors/vendors, i.e. GCI, elevator)							

LEGEND: G = Government Action C = Contractor Action

G/C	#	ACTIVITY DESCRIPTION	ACTION OFFICER	DUE DATE	STATUS			ACTUAL COMPLETION DATE	COMMENTS
					Working	Urgent	Complete		
C	11	Excess Materials (inventory, spare parts, tools, quantities as spec'd, DD250, itemized list, where located/stored)							
G+C	12	Government or Contractor Furnished Equipment (date of delivery, installation, POC's)							
C	13	Landscaping/Turfing (coordinate w/DPW/BCE landscaper, utilities, irrigation system, maintenance requirements)							
C	14	Exterior (parking lots, pavement, striping, handicap signs, wheel stops, light standards, vehicle plug-in, sidewalks, fencing, bollards-safety markings, dumpster enclosures, transformer enclosure, locks)							
G or C	15	Signage (interior, exterior, directory, facility name and number, billboard)							
C	16	Keys/Tags/Box/Construction Cores (numbers req'd as spec'd, POC for turnover, key control, location, construction cores, coordination w/DPW/BCE locksmith, bldg manager, sign shops)							
C	17	Final Cleaning (spec'd waxing of floors, access controlled, bldg secured)							
C	18	Installed Property Equipment List (mechanical and electrical)							

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G/C	#	ACTIVITY DESCRIPTION	ACTION OFFICER	DUE DATE	STATUS			ACTUAL COMPLETION DATE	COMMENTS
					Working	Urgent	Complete		
G	19	Draft/Preliminary/Interim DD Form 1354 (coordinate w/DPW/BCE real property)							
G	20	DD Form 1354I (w/installed property list, noted deficiencies & correction dates at final inspection) *note* - hand delivered							
G	21	Submittals Closeout (outstanding, delinquent, transfer to DPW/BCE)							
C	22	Submittal Register Cleared							
G+C	23	Warranty Conference (Corps schedules w/contractor input, contractor provides booklet w/all-inclusive warranties, procedures, response order of priority, POC's phone #'s, attendees to include bldg manager, service desk, reserved room large enough for attendees)							
G+C	24	Warranty follow-up Inspections (4, 9 month & 1-yr inspections, warranty call log/procedures, contractor response times, etc.)							
C	25	Equipment Warranty Tags (type submitted &							
		approved, correct warranty date posted)							
C+G	26	As-builts (red line preliminary, final, CADD files submitted, approved, required # of copies, format as spec'd, CD's, etc.)							

LEGEND: G = Government Action C = Contractor Action

G/C	#	ACTIVITY DESCRIPTION	ACTION OFFICER	DUE DATE	STATUS			ACTUAL COMPLETION DATE	COMMENTS
					Working	Urgent	Complete		
C	27	CQC completion inspection and Punch List (submitted w/scheduled dates for completion of item, coordinate w/QAR. No pre-final inspection scheduled w/o this.)							
G+C	24	Warranty follow-up Inspections (4, 9 month & 1-yr inspections, warranty call log/procedures, contractor response times, etc.)							
C	25	Equipment Warranty Tags (type submitted & approved, correct warranty date posted)							
C+G	26	As-builts (red line preliminary, final, CADD files submitted, approved, required # of copies, format as spec'd, CD's, etc.)							
C	27	CQC completion inspection and Punch List (submitted w/scheduled dates for completion of item, coordinate w/QAR. No pre-final inspection scheduled w/o this.)							
C	28	Master Issue and Deficiency Log (cleared or with correction suspense dates)							
G	29	Final Quantities (verified if applicable)							
C,G	30	Snow Plow Crew (coordinate POC for "Site Familiarization Drive Through")							

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G/C	#	ACTIVITY DESCRIPTION	ACTION OFFICER	DUE DATE	STATUS			ACTUAL COMPLETION DATE	COMMENTS
					Working	Urgent	Complete		
G	31	Pre-final Inspection (CQC punch list received, phased by facilities, floors, mechanical rooms, etc., to include facility exterior prior to snow fall, do not schedule on early Monday or Late Friday)							
C+G	32	Beneficial Occupancy Date (BOD)							
G	33	Final Inspection (w/DD Form 1354 for signature)							
C+G	34	Final Utility Meter Readings (disconnection of meters, coordinate w/CQC, QAR, CDE/DPW utilities)							
C	35	Demobilization (winter, spring)							
C+G	36	Final Payment (withholdings/retainage /liquidated damages assessed)							
G	37	User Move-In Date (partial acceptance)							
G	38	Ribbon Cutting (if applicable)							
C+G	39	Final Payrolls(closed out)							
G	40	Release of Claims							
G+C	41	Contractor Performance Evaluation (DD2626)							
G+ AE	42	AE Performance Evaluation (DD2631)							
G+C	43	After Action Review [(AAR) (Government action, Lessons Learned, scheduled, who attends)]							

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G/C	#	ACTIVITY DESCRIPTION	ACTION OFFICER	DUE DATE	STATUS			ACTUAL COMPLETION DATE	COMMENTS
					Working	Urgent	Complete		
		CRITICAL PATH ISSUES:							

LEGEND: G = Government Action C = Contractor Action

SECTION 01 32 01.00 10

PROJECT SCHEDULE
02/15

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AACE INTERNATIONAL (AACE)

AACE 29R-03	(2011) Forensic Schedule Analysis
AACE 52R-06	(2006) Time Impact Analysis - As Applied in Construction

U.S. ARMY CORPS OF ENGINEERS (USACE)

ER 1-1-11	(1995) Administration -- Progress, Schedules, and Network Analysis Systems

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Project Scheduler Qualifications; G, RO

Preliminary Project Schedule; G, RO

Initial Project Schedule; G, RO

Periodic Schedule Update; G, RO

Narrative Report; G, RO

1.3 PROJECT SCHEDULER QUALIFICATIONS

Designate an authorized representative to be responsible for the preparation of the schedule and all required updating and production of reports. The authorized representative must have a minimum of 2-years experience scheduling construction projects similar in size and nature to this project with scheduling software that meets the requirements of this specification. Representative must have a comprehensive knowledge of CPM scheduling principles and application.

The scheduler must have a comprehensive knowledge of CPM scheduling, principles, application, and obtain the skill/knowledge on following and adhering to this Contract, specification and drawing. The Designated Project Scheduler must have prepared and maintained at least five previous construction schedules of similar size and complexity to this Contract, utilizing the most recent version of Oracle Primavera P6.

During the entire Contract duration, the Government will require the Project Scheduler to be present at the project site office/trailers as often as needed to maintain and provide the Government with a fully completed status-to-date schedule.

PART 2 PRODUCTS

2.1 SOFTWARE

The scheduling software utilized to produce and update the schedules required herein must be capable of meeting all requirements of this specification.

2.1.1 Government Default Software

The Government intends to use Primavera P6.

2.1.2 Contractor Software

Scheduling software used by the Contractor must be commercially available from the software vendor for purchase with vendor software support agreements available. The software routine used to create the required sdef file must be created and supported by the software manufacturer.

2.1.2.1 Primavera

If Primavera P6 is selected for use, provide the "xer" export file in a version of P6 importable by the Government system.

2.1.2.2 Other Than Primavera

If the Contractor chooses software other than Primavera P6, that is compliant with this specification, provide for the Government's use two licenses, two computers, and training for two Government employees in the use of the software. These computers will be stand-alone and not connected to Government network. Computers and licenses will be returned at project completion.

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

The Contractor is prohibited from beginning Mobilization, Demolition, Excavation and Construction prior to the Government approval of a complete Preliminary and/or Initial Schedules.

Prepare for approval a Project Schedule, as specified herein, pursuant to FAR Clause 52.236-15 Schedules for Construction Contracts. Show in the schedule the proposed sequence to perform the work and dates contemplated for starting and completing all schedule activities. The scheduling of the entire project is required. The scheduling of construction is the responsibility of the Contractor. Contractor management personnel must

actively participate in its development. Subcontractors and suppliers working on the project must also contribute in developing and maintaining an accurate Project Schedule. Provide a schedule that is a forward planning as well as a project monitoring tool. Use the Critical Path Method (CPM) of network calculation to generate all Project Schedules. Prepare each Project Schedule using the Precedence Diagram Method (PDM).

3.2 Approved Project Schedule

Use the approved Project Schedule to measure the progress of the work and to aid in evaluating time extensions, and to provide the basis of all progress payments. Make the schedule cost loaded and activity coded. The schedule will provide the basis for all progress payments. If the Contractor fails to submit any schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule.

3.3 Schedule Status Reports

Provide a Schedule Status Report on at least a monthly basis. If, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor must take steps necessary to improve its progress including those that may be required by the Contracting Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.

3.4 Default Terms

Failure of the Contractor to comply with the requirements of the Contracting Officer will be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of the contract.

3.5 BASIS FOR PAYMENT AND COST LOADING

The schedule is the basis for determining contract earnings during each update period and therefore the amount of each progress payment. The aggregate value of all activities coded to a contract CLIN must equal the value of the CLIN.

3.5.1 Activity Cost Loading

Activity cost loading must be reasonable and without front-end loading. Provide additional documentation to demonstrate reasonableness if requested by the Contracting Officer. The value of commissioning and testing WBS section may not be less than 10 percent of the total costs for all mechanical, electrical and plumbing procurement and construction activities. Field Overhead costs may be evenly dispersed to each activity over the duration of the project. During schedule development, the Contracting Officer may require all overhead costs be broken out and billed against a percentage of the construction completion percentage. Evenly disperse overhead costs and profit to each activity over the

duration of the project. It is the discretion of the Government of which activates are to be cost loaded and if field overhead is to be broken out separately.

When directed by the Government, Contractor must reallocate activity cost appropriately with out without Contractor documentation.

3.5.2 Layout Activity Cost Loading

"Layout" activities will have zero cost. ("Layouts" have been captured on project drawings and paid by the Government at the completion of Design.)

3.5.3 Schematic Diagram/Drawing Activity Cost Loading

"Schematic Diagram/Drawing" activities will have zero cost. ("Schematic Diagram/Drawing" are supplied by the manufacturer and paid at the Government verification of material delivery and or install.)

3.5.4 Cost Loading of Submittal

"Submittal" Activities will have zero cost. Government does not allow cost loading of submittals. Cost loading of submittals is prohibited.

3.5.5 Mobilization and Demobilization Cost

Under a separate WBS for each Mobilization and Demobilization include detail activities with reasonable cost. Front-end loading is prohibited. Provide the Government with detail documentation and cost of Mobilization and Demobilization, prior to submitting a Preliminary Schedule.

3.5.6 Cost Loading of Commissioning Activities

The value of all "Government Approval Received of Test Reports…." activities of commissioning systems are not be less than 10 percent of the total costs for all procurement and construction activities of each commissioned system (Total Commissioned System Cost). Work performed on Testing, Checklist, Reports, Plans, Procedures, Manual's type activities are paid once "Government Approval Received" of the final document, only if cost are applicable and cost loading is approved by the Contracting Officer.

The activity(ies) for "Government Approval Received Final Commissioning Report" shall be valued at no less than half of the retained money referenced in the above paragraph. The remaining balance of the 10% shall be spread across any other"Government Approval Received..." activities for preliminary Commissioning testing reports (TAB, DALT, Start Up Testing, etc).

3.5.7 Withholdings / Payment Rejection

Failure to meet the requirements of this specification may result in the disapproval of the preliminary, initial or periodic schedule updates and subsequent rejection of payment requests until compliance is met.

In the event that the Contracting Officer directs schedule revisions and those revisions have not been included in subsequent Project Schedule revisions or updates, the Contracting Officer may withhold 10 percent of

pay request amount from each payment period until such revisions to the project schedule have been made.

3.6 PROJECT SCHEDULE DETAILED REQUIREMENTS

3.6.1 Level of Detail Required

Develop the Project Schedule to the appropriate level of detail to address major milestones and to allow for satisfactory project planning and execution. Failure to develop the Project Schedule to an appropriate level of detail will result in its disapproval. The Contracting Officer will consider, but is not limited to, the following characteristics and requirements to determine appropriate level of detail:

3.6.2 Activity Durations

Reasonable activity durations are those that allow the progress of ongoing activities to be accurately determined between update periods. Less than 2 percent of all non-procurement activities may have Original Durations (OD) greater than 20 work days or 30 calendar days.

3.6.3 Procurement Activities

Include activities associated with the critical submittals and their approvals, procurement, fabrication, and delivery of long lead materials, equipment, fabricated assemblies, and supplies. Long lead procurement activities are those with an anticipated procurement sequence of over 90 calendar days.

3.6.4 Mandatory Tasks

Include the following activities/tasks in the initial project schedule and all updates.

a. Submission, review and acceptance of SD-01 Preconstruction Submittals (individual activity for each).

b. Submission, review and acceptance of features require design completion

c. Submission and approval of mechanical/electrical/information systems layout drawings.

d. Long procurement activities

e. Submission and approval of O & M manuals.

f. Submission and approval of as-built drawings.

g. Submission and approval of DD1354 data and installed equipment lists.

h. Submission and approval of testing and air balance (TAB).

i. Submission of TAB specialist design review report.

j. Submission and approval of fire protection specialist.

k. Submission and approval of Building Commissioning Plan, test data, and reports: Develop the schedule logic associated with testing and

commissioning of mechanical systems as defined in Section 01 91 00.15 10 TOTAL BUILDING COMMISSIONING. All tasks associated with all building testing and commissioning will be completed prior to submission of building commissioning report and subsequent contract completion.

l. Air and water balancing.

m. Building commissioning - Functional Performance Testing.

n. Controls testing plan submission.

o. Controls testing.

p. Performance Verification testing.

q. Other systems testing, if required.

r. Contractor's pre-final inspection.

s. Correction of punch list from Contractor's pre-final inspection.

t. Government's pre-final inspection.

u. Correction of punch list from Government's pre-final inspection.

v. Final inspection.

w. Coordination With DPW Utility Privatization Contractors.

x. Detail Activities of all Sub Contractor Buyouts.

y. Submissions, Reviews and Approvals of all Mobilization and Demobilization.

z. Submissions, Reviews and Approvals of Preliminary Schedule.

aa. Submissions, Reviews and Approval of Initial Baseline Schedule.

bb. Required meetings and conference, including all 3-Phase Quality Control Preparatory Meetings.

3.6.5 Government Activities

Show Government and other agency activities that could impact progress. These activities include, but are not limited to: approvals, environmental permit approvals by State regulators, inspections, utility tie-in, Government Furnished Equipment (GFE) and Notice to Proceed (NTP) for phasing requirements.

3.6.6 Standard Activity Coding Dictionary

Use the activity coding structure defined in the Standard Data Exchange Format (SDEF) in ER 1-1-11. This exact structure is mandatory. Develop and assign all Activity Codes to activities as detailed herein. A template SDEF compatible schedule backup file is available on the RMS CM web site: http://rms.usace.army.mil.

The SDEF format is as follows:

Field	Activity Code	Length	Description
1	WRKP	3	Workers per day
2	RESP	4	Responsible party
3	AREA	4	Area of work
4	MODF	6	Modification Number
5	BIDI	6	Bid Item (CLIN)
6	PHAS	2	Phase of work
7	CATW	1	Category of work
8	FOW	20	Feature of work*

*Some systems require that FEATURE OF WORK values be placed in several activity code fields. The notation shown is for Primavera P6. Refer to the specific software guidelines with respect to the FEATURE OF WORK field requirements.

3.6.6.1 Workers Per Day (WRKP)

Assign Workers per Day for all field construction or direct work activities, if directed by the Contracting Officer. Workers per day is based on the average number of workers expected each day to perform a task for the duration of that activity.

3.6.6.2 Responsible Party Coding (RESP)

Assign responsibility code for all activities to the Prime Contractor, Subcontractor(s) or Government agency(ies) responsible for performing the activity.

a. Activities coded with a Government Responsibility code include, but are not limited to: Government approvals, Government design reviews, environmental permit approvals by State regulators, Government Furnished Property/Equipment (GFP) and Notice to Proceed (NTP) for phasing requirements.

b. Activities cannot have more than one Responsibility Code. Examples of acceptable activity code values are: DOR (for the designer of record); ELEC (for the electrical subcontractor); MECH (for the mechanical subcontractor); and GOVT (for USACE).

3.6.6.3 Area of Work Coding (AREA)

Assign Work Area code to activities based upon the work area in which the activity occurs. Define work areas based on resource constraints or space constraints that would preclude a resource, such as a particular trade or craft work crew from working in more than one work area at a time due to restraints on resources or space. Examples of Work Area Coding include different areas within a floor of a building, different floors within a

building, and different buildings within a complex of buildings. Activities cannot have more than one Work Area Code.

Not all activities are required to be Work Area coded. A lack of Work Area coding indicates the activity is not resource or space constrained.

3.6.6.4 Modification Number (MODF)

Assign a Modification Number Code to any activity or sequence of activities added to the schedule as a result of a Contract Modification, when approved by Contracting Officer. Key all Code values to the Government's modification numbering system. An activity can have only one Modification Number Code.

3.6.6.5 Bid Item Coding (BIDI)

Assign a Bid Item Code to all activities using the Contract Line Item Schedule (CLIN) to which the activity belongs, even when an activity is not cost loaded. An activity can have only one BIDI Code.

3.6.6.6 Phase of Work Coding (PHAS)

Assign Phase of Work Code to all activities. Examples of phase of work are procurement phase and construction phase. Each activity can have only one Phase of Work code.

a. Code proposed fast track design and construction phases proposed to allow filtering and organizing the schedule by fast track design and construction packages.

b. If the contract specifies phasing with separately defined performance periods, identify a Phase Code to allow filtering and organizing the schedule accordingly.

3.6.6.7 Category of Work Coding (CATW)

Assign a Category of Work Code to all activities. Category of Work Codes include, but are not limited to construction submittal, procurement, fabrication, weather sensitive installation, non-weather sensitive installation, start-up, and testing activities. Each activity can have no more than one Category of Work Code.

3.6.6.8 Feature of Work Coding (FOW)

Assign a Feature of Work Code to appropriate activities based on the Definable Feature of Work to which the activity belongs based on the approved QC plan.

Definable Feature of Work is defined in Section 01 45 00.00 10 QUALITY CONTROL. An activity can have only one Feature of Work Code.

3.6.7 Contract Milestones and Constraints

Milestone activities are to be used for significant project events including, but not limited to, project phasing, project start and end activities, or interim completion dates. The use of artificial float constraints such as "zero free float" or "zero total float" are prohibited.

Mandatory constraints that ignore or effect network logic are prohibited. No constrained dates are allowed in the schedule other than those specified herein. Submit additional constraints to the Contracting Officer for approval on a case by case basis.

3.6.7.1 Project Start Date Milestone and Constraint

The first activity in the project schedule must be a start milestone titled "NTP Acknowledged," which must have a "Start On" constraint date equal to the date that the NTP is acknowledged.

3.6.7.2 End Project Finish Milestone and Constraint

The last activity in the schedule must be a finish milestone titled "End Project."

Constrain the project schedule to the Contract Completion Date in such a way that if the schedule calculates an early finish, then the float calculation for "End Project" milestone reflects positive float on the longest path. If the project schedule calculates a late finish, then the "End Project" milestone float calculation reflects negative float on the longest path. The Government is under no obligation to accelerate Government activities to support a Contractor's early completion.

3.6.7.3 Interim Completion Dates and Constraints

Constrain contractually specified interim completion dates to show negative float when the calculated late finish date of the last activity in that phase is later than the specified interim completion date.

3.6.7.3.1 Start Phase

Use a start milestone as the first activity for a project phase. Call the start milestone "Start Phase X" where "X" refers to the phase of work.

3.6.7.3.2 End Phase

Use a finish milestone as the last activity for a project phase. Call the finish milestone "End Phase X" where "X" refers to the phase of work.

3.6.8 Calendars

Schedule activities on a Calendar to which the activity logically belongs. Develop calendars to accommodate any contract defined work period such as a 7-day calendar for Government Acceptance activities, concrete cure times, etc. Develop the default Calendar to match the physical work plan with non-work periods identified including weekends and holidays. Develop Seasonal Calendar(s) and assign to seasonally affected activities as applicable.

If an activity is weather sensitive it should be assigned to a calendar showing non-work days on a monthly basis, with the non-work days selected at random across the weeks of the calendar, using the anticipated adverse weather delay work days provided in Time Extension paragraph. Assign non-work days over a seven-day week as weather records are compiled on seven-day weeks, which may cause some of the weather related non-work days to fall on weekends.

3.6.9 Open Ended Logic

Only two open ended activities are allowed: the first activity "NTP Acknowledged" may have no predecessor logic, and the last activity -"End Project" may have no successor logic.

Predecessor open ended logic may be allowed in a time impact analyses upon the Contracting Officer's approval.

3.6.10 Default Progress Data Disallowed

Actual Start and Finish dates must not automatically update with default mechanisms included in the scheduling software. Updating of the percent complete and the remaining duration of any activity must be independent functions. Disable program features that calculate one of these parameters from the other. Activity Actual Start (AS) and Actual Finish (AF) dates assigned during the updating process must match those dates provided in the Contractor Quality Control Reports. Failure to document the AS and AF dates in the Daily Quality Control report will result in disapproval of the Contractor's schedule.

3.6.11 Out-of-Sequence Progress

Activities that have progressed before all preceding logic has been satisfied (Out-of-Sequence Progress) will be allowed only on a case-by-case basis subject to approval by the Contracting Officer. Propose logic corrections to eliminate out of sequence progress or justify not changing the sequencing for approval prior to submitting an updated project schedule. Address out of sequence progress or logic changes in the Narrative Report and in the periodic schedule update meetings.

3.6.12 Added and Deleted Activities

Do not delete activities from the project schedule or add new activities to the schedule without approval from the Contracting Officer. Activity ID and description changes are considered new activities and cannot be changed without Contracting Officer approval.

3.6.13 Original Durations

Activity Original Durations (OD) must be reasonable to perform the work item. OD changes are prohibited unless justification is provided and approved by the Contracting Officer.

3.6.14 Leads, Lags, and Start to Finish Relationships

Lags must be reasonable as determined by the Government and not used in place of realistic original durations, must not be in place to artificially absorb float, or to replace proper schedule logic.

a. Leads (negative lags) are prohibited.

b. Start to Finish (SF) relationships are prohibited.

3.6.15 Retained Logic

Schedule calculations must retain the logic between predecessors and successors ("retained logic" mode) even when the successor activity(s) starts and the predecessor activity(s) has not finished (out-of-sequence

progress). Software features that in effect sever the tie between predecessor and successor activities when the successor has started and the predecessor logic is not satisfied ("progress override") are not be allowed.

3.6.16 Percent Complete

Update the percent complete for each activity started, based on the realistic assessment of earned value. Activities which are complete but for remaining minor punch list work and which do not restrain the initiation of successor activities may be declared 100 percent complete to allow for proper schedule management.

3.6.17 Remaining Duration

Update the remaining duration for each activity based on the number of estimated work days it will take to complete the activity. Remaining duration may not mathematically correlate with percentage found under paragraph entitled Percent Complete.

3.6.18 Cost Loading of Closeout Activities

Cost load the "Correction of punch list from Government pre-final inspection" activity(ies) not less than 1 percent of the present contract value. Activity(ies) may be declared 100 percent complete upon the Government's verification of completion and correction of all punch list work identified during Government pre-final inspection(s).

3.6.18.1 As-Built Drawings

If there is no separate contract line item (CLIN) for as-built drawings, cost load the "Submission and approval of as-built drawings" activity not less than $35,000 or 1 percent of the present contract value, which ever is greater, up to $200,000. Activity will be declared 100 percent complete upon the Government's approval.

3.6.18.2 O & M Manuals

Cost load the "Submission and approval of O & M manuals" activity not less than $20,000. Activity will be declared 100 percent complete upon the Government's approval of all O & M manuals.

3.6.19 Early Completion Schedule and the Right to Finish Early

An Early Completion Schedule is an Initial Project Schedule (IPS) that indicates all scope of the required contract work will be completed before the contractually required completion date.

a. No IPS indicating an Early Completion will be accepted without being fully resource-loaded (including crew sizes and manhours) and the Government agreeing that the schedule is reasonable and achievable.

b. The Government is under no obligation to accelerate work items it is responsible for to ensure that the early completion is met nor is it responsible to modify incremental funding (if applicable) for the project to meet the Contractor's accelerated work.

3.7 PROJECT SCHEDULE SUBMISSIONS

Provide the submissions as described below. The data CD/DVD, reports, and network diagrams required for each submission are contained in paragraph SUBMISSION REQUIREMENTS. If the Contractor fails or refuses to furnish the information and schedule updates as set forth herein, then the Contractor will be deemed not to have provided an estimate upon which a progress payment can be made.

Review comments made by the Government on the schedule(s) do not relieve the Contractor from compliance with requirements of the Contract Documents.

3.7.1 Preliminary Project Schedule Submission

Within 15 calendar days after the NTP is acknowledged submit the Preliminary Project Schedule defining the planned operations detailed for the first 90 calendar days for approval. The approved Preliminary Project Schedule will be used for payment purposes not to exceed 90 calendar days after NTP. Completely cost load the Preliminary Project Schedule to balance the contract award CLINS shown on the Price Schedule. The Preliminary Project Schedule may be summary in nature for the remaining performance period. It must be early start and late finish constrained and logically tied as specified. The Preliminary Project Schedule forms the basis for the Initial Project Schedule specified herein and must include all of the required plan and program preparations, submissions and approvals identified in the contract (for example, Quality Control Plan, Safety Plan, and Environmental Protection Plan) as well as design activities, planned submissions of all early design packages, permitting activities, design review conference activities, and other non-construction activities intended to occur within the first 90 calendar days. Government acceptance of the associated design package(s) and all other specified Program and Plan approvals must occur prior to any planned construction activities. Activity code any activities that are summary in nature after the first 90 calendar days with Bid Item (CLIN) code (BIDI), Responsibility Code (RESP) and Feature of Work code (FOW).

3.7.2 Initial Project Schedule Submission

Submit the Initial Project Schedule for approval within 42 calendar days after Notice To Proceed is issued. Payments will only continue with a Government Approved Initial Project Schedule. The schedule must demonstrate a reasonable and realistic sequence of activities which represent all work through the entire contract performance period. No payment will be made for work items not fully detailed in the Project Schedule.

3.7.3 Periodic Schedule Updates

Update the Project Schedule on a regular basis, monthly at a minimum. Provide a draft Periodic Schedule Update for review at the schedule update meetings as prescribed in the paragraph PERIODIC SCHEDULE UPDATE MEETINGS. These updates will enable the Government to assess Contractor's progress.

a. Update information including Actual Start Dates (AS), Actual Finish Dates (AF), Remaining Durations (RD), and Percent Complete is subject to the approval of the Government at the meeting.

b. AS and AF dates must match the date(s) reported on the Contractor's

Quality Control Report for an activity start or finish.

3.8 SUBMISSION REQUIREMENTS

Submit the following items for the Preliminary Schedule, Initial Schedule, and every Periodic Schedule Update throughout the life of the project:

3.8.1 Data CD/DVDs

Provide two sets of data CD/DVDs containing the current project schedule and all previously submitted schedules in the .xer and sdef format of the scheduling software. Also include on the data CD/DVDs the Narrative Report and all required Schedule Reports. Label each CD/DVD indicating the type of schedule (Preliminary, Initial, Update), full contract number, Data Date and file name. Each schedule must have a unique file name and use project specific settings.

3.8.2 Narrative Report

Provide a Narrative Report with each schedule submission. Four copies of the schedules showing codes, values, categories, numbers, and other items, etc., as required. The Narrative Report is expected to communicate to the Government the thorough analysis of the schedule output and the plans to compensate for any problems, either current or potential, which are revealed through that analysis. Include the following information as minimum in the Narrative Report:

a. Identify and discuss the work scheduled to start in the next update period.

b. A description of activities along the two most critical paths where the total float is less than or equal to 20 work days.

c. A description of current and anticipated problem areas or delaying factors and their impact and an explanation of corrective actions taken or required to be taken.

d. Identify and explain why activities based on their calculated late dates should have either started or finished during the update period but did not.

e. Identify and discuss all schedule changes by activity ID and activity name including what specifically was changed and why the change was needed. Include at a minimum new and deleted activities, logic changes, duration changes, calendar changes, lag changes, resource changes, and actual start and finish date changes.

f. Identify and discuss out-of-sequence work.

3.8.3 Schedule Reports

The format, filtering, organizing and sorting for each schedule report will be as directed by the Contracting Officer. Typically, reports contain Activity Numbers, Activity Description, Original Duration, Remaining Duration, Early Start Date, Early Finish Date, Late Start Date, Late Finish Date, Total Float, Actual Start Date, Actual Finish Date, and Percent Complete. Provide the reports electronically in .pdf format. Provide five set(s) of hardcopy reports. The following lists typical reports that will be requested:

3.8.3.1 Activity Report

List of all activities sorted according to activity number.

3.8.3.2 Logic Report

List of detailed predecessor and successor activities for every activity in ascending order by activity number.

3.8.3.3 Total Float Report

A list of all incomplete activities sorted in ascending order of total float. List activities which have the same amount of total float in ascending order of Early Start Dates. Do not show completed activities on this report.

3.8.3.4 Earnings Report by CLIN

A compilation of the Total Earnings on the project from the NTP to the data date, which reflects the earnings of activities based on the agreements made in the schedule update meeting defined herein. Provided a complete schedule update has been furnished, this report serves as the basis of determining progress payments. Group activities by CLIN number and sort by activity number. Provide a total CLIN percent earned value, CLIN percent complete, and project percent complete. The printed report must contain the following for each activity: the Activity Number, Activity Description, Original Budgeted Amount, Earnings to Date, Earnings this period, Total Quantity, Quantity to Date, and Percent Complete (based on cost).

3.8.3.5 Schedule Log

Provide a Scheduling/Leveling Report generated from the current project schedule being submitted.

3.8.4 Network Diagram

The Network Diagram is required for the Preliminary, Initial and Periodic Updates. Depict and display the order and interdependence of activities and the sequence in which the work is to be accomplished. The Contracting Officer will use, but is not limited to, the following conditions to review compliance with this paragraph:

3.8.4.1 Continuous Flow

Show a continuous flow from left to right with no arrows from right to left. Show the activity number, description, duration, and estimated earned value on the diagram.

3.8.4.2 Project Milestone Dates

Show dates on the diagram for start of project, any contract required interim completion dates, and contract completion dates.

3.8.4.3 Critical Path

Show all activities on the critical path. The critical path is defined as the longest path.

3.8.4.4 Banding

Organize activities using the WBS or as otherwise directed to assist in the understanding of the activity sequence. Typically, this flow will group activities by major elements of work, category of work, work area and/or responsibility.

3.8.4.5 Cash Flow / Schedule Variance Control (SVC) Diagram

With each schedule submission, provide a SVC diagram showing 1) Cash Flow S-Curves indicating planned project cost based on projected early and late activity finish dates, and 2) Earned Value to-date.

3.9 PERIODIC SCHEDULE UPDATE

3.9.1 Periodic Schedule Update Meetings

Conduct periodic schedule update meetings for the purpose of reviewing the proposed Periodic Schedule Update, Narrative Report, Schedule Reports, and progress payment. Conduct meetings at least monthly within five days of the proposed schedule data date. Provide a computer with the scheduling software loaded and a projector which allows all meeting participants to view the proposed schedule during the meeting. The Contractor's authorized scheduler must organize, group, sort, filter, perform schedule revisions as needed and review functions as requested by the Contractor and/or Government. The meeting is a working interactive exchange which allows the Government and Contractor the opportunity to review the updated schedule on a real time and interactive basis. The meeting will last no longer than 8 hours. Provide a draft of the proposed narrative report and schedule data file to the Government a minimum of two workdays in advance of the meeting. The Contractor's Project Manager and scheduler must attend the meeting with the authorized representative of the Contracting Officer. Superintendents, foremen and major subcontractors must attend the meeting as required to discuss the project schedule and work. Following the periodic schedule update meeting, make corrections to the draft submission. Include only those changes approved by the Government in the submission and invoice for payment.

3.9.2 Update Submission Following Progress Meeting

Submit the complete Periodic Schedule Update of the Project Schedule containing all approved progress, revisions, and adjustments, pursuant to paragraph SUBMISSION REQUIREMENTS not later than 4 work days after the periodic schedule update meeting. Payments can only be distributed with a Government Approved Periodic Schedule Update.

3.10 WEEKLY PROGRESS MEETINGS

Conduct a weekly meeting with the Government (or as otherwise mutually agreed to) between the meetings described in paragraph entitled PERIODIC SCHEDULE UPDATE MEETINGS for the purpose of jointly reviewing the actual status of weekly activities of the project as compared to the as planned progress and to review planned activities for the upcoming two weeks. Use the current approved schedule update for the purposes of this meeting and for the production and review of reports. At the weekly progress meeting, address the status of RFIs, RFPs, project schedule, and Submittals.

3.11 Weekly Activity Status And Data

Project activities are to be status (d) on a weekly bases by end of day each Monday. On each Tuesday, at 8 am extract the following data from P6 and forward to the government field team (P6 layout with headers/columns in order of left to right): Activity ID, Activity Name, Activity Type, Physical Percent Complete, Calendar, Original Duration, Remaining Duration, Start, Finish, Free Float and Total Float.

3.12 REQUESTS FOR TIME EXTENSIONS

Provide a justification of delay to the Contracting Officer in accordance with the contract provisions and clauses for approval within 10 days of a delay occurring. Also prepare a time impact analysis for each Government request for proposal (RFP) to justify time extensions.

3.12.1 Justification of Delay

Provide a description of the event(s) that caused the delay and/or impact to the work. As part of the description, identify all schedule activities impacted. Show that the event that caused the delay/impact was the responsibility of the Government. Provide a time impact analysis that demonstrates the effects of the delay or impact on the project completion date or interim completion date(s). Evaluate multiple impacts chronologically; each with its own justification of delay. With multiple impacts consider any concurrence of delay. A time extension and the schedule fragnet becomes part of the project schedule and all future schedule updates upon approval by the Contracting Officer.

3.12.2 Time Impact Analysis (Prospective Analysis)

Prepare a time impact analysis for approval by the Contracting Officer based on industry standard AACE 52R-06. Utilize a copy of the last approved schedule prior to the first day of the impact or delay for the time impact analysis. If Contracting Officer determines the time frame between the last approved schedule and the first day of impact is too great, prepare an interim updated schedule to perform the time impact analysis. Unless approved by the Contracting Officer, no other changes may be incorporated into the schedule being used to justify the time impact.

3.12.3 Forensic Schedule Analysis (Retrospective Analysis)

Prepare an analysis for approval by the Contracting Officer based on industry standard AACE 29R-03.

3.12.4 Fragmentary Network (Fragnet)

Prepare a proposed fragnet for time impact analysis consisting of a sequence of new activities that are proposed to be added to the project schedule to demonstrate the influence of the delay or impact to the project's contractual dates. Clearly show how the proposed fragnet is to be tied into the project schedule including all predecessors and successors to the fragnet activities. The proposed fragnet must be approved by the Contracting Officer prior to incorporation into the project schedule.

3.12.5 Time Extension

The Contracting Officer must approve the Justification of Delay including the time impact analysis before a time extension will be granted. No time extension will be granted unless the delay consumes all available Project Float and extends the projected finish date ("End Project" milestone) beyond the Contract Completion Date. The time extension will be in calendar days.

Actual delays that are found to be caused by the Contractor's own actions, which result in a calculated schedule delay will not be a cause for an extension to the performance period, completion date, or any interim milestone date.

3.12.5.1 Time Extensions For Changes In The Work

Notwithstanding other provisions of this contract, it is mutually understood that the time extensions for changes in the work will depend upon the extent by which the changes cause delay in the completion of the various elements of construction. The change order granting the time extension may provide that the contract completion date will be extended only for those specific elements so delayed and that the remaining contract completion dates for all other portions of the work will not be altered and may further provide for an equitable readjustment of liquidated damages under the new completion schedule. (FAR 52.212 6)

3.12.5.2 Time Extensions For Unusually Severe Weather

1. This provision specifies the procedure for determination of time extension for usually severe weather in accordance with the contract clause entitled "Default: (Fixed Price Construction)." In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

   a. The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

   b. The unusually severe weather must cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

2. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

MONTHLY ANTICIPATED ADVERSE WEATHER DELAY (West Point, NY)											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
8	7	8	8	9	6	6	6	5	6	7	8

3. Upon acknowledgment of the Notice to Proceed (NTP) and continuing

throughout the contract, the Contractor will record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled workday. The number of actual adverse weather delay days must include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph 2 above, the Contracting Officer will convert qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the contract clause entitled "Default (Fixed Price Construction)".

3.12.6 Impact to Early Completion Schedule

No extended overhead will be paid for delay prior to the original Contract Completion Date for an Early Completion IPS unless the Contractor actually performed work in accordance with that Early Completion Schedule. The Contractor must show that an early completion was achievable had it not been for the impact.

3.13 FAILURE TO ACHIEVE PROGRESS

Should the progress fall behind the approved project schedule for reasons other than those that are excusable within the terms of the contract, the Contracting Officer may require provision of a written recovery plan for approval. The plan must detail how progress will be made-up to include which activities will be accelerated by adding additional crews, longer work hours, extra work days, etc.

3.13.1 Artificially Improving Progress

Artificially improving progress by means such as, but not limited to, revising the schedule logic, modifying or adding constraints, shortening activity durations, or changing calendars in the project schedule is prohibited. Indicate assumptions made and the basis for any logic, constraint, duration and calendar changes used in the creation of the recovery plan. Any additional resources, manpower, or daily and weekly work hour changes proposed in the recovery plan must be evident at the work site and documented in the daily report along with the Schedule Narrative Report.

3.13.2 Failure to Perform

Failure to perform work and maintain progress in accordance with the supplemental recovery plan may result in an interim and final unsatisfactory performance rating and may result in corrective action directed by the Contracting Officer pursuant to FAR 52.236-15 Schedules for Construction Contracts, FAR 52.249-10 Default (Fixed-Price Construction), and other contract provisions.

3.13.3 Recovery Schedule

Should the Contracting Officer find it necessary, submit a recovery schedule pursuant to FAR 52.236-15 Schedules for Construction Contracts.

3.14 OWNERSHIP OF FLOAT

Except for the provision given in the paragraph IMPACT TO EARLY COMPLETION SCHEDULE, float available in the schedule, at any time, may not be considered for the exclusive use of either the Government or the Contractor including activity and/or project float. Activity float is the number of work days that an activity can be delayed without causing a delay to the "End Project" finish milestone. Project float (if applicable) is the number of work days between the projected early finish and the contract completion date milestone.

3.15 TRANSFER OF SCHEDULE DATA INTO RMS/RMS CM

Import the schedule data into the Resident Management System Contractor Mode (RMS CM) and export the RMS CM data to the Government. This data is considered to be additional supporting data in a form and detail required by the Contracting Officer pursuant to FAR 52.232-5 Payments under Fixed-Price Construction Contracts. The receipt of a proper payment request pursuant to FAR 52.232-27 Prompt Payment for Construction Contracts is contingent upon the Government receiving both acceptable and provable hard copies and matching electronic export from RMS CM of the application for progress payment.

3.16 PRIMAVERA P6 MANDATORY REQUIREMENTS

If Primavera P6 is being used, request a backup file template (.xer) from the Government, if one is available, prior to building the schedule. The following settings are mandatory and required in all schedule submissions to the Government:

a. Activity Codes must be Project Level, not Global or EPS level.

b. Calendars must be Project Level, not Global or Resource level.

c. Activity Duration Types must be set to "Fixed Duration & Units".

d. Percent Complete Types must be set to "Physical".

e. Time Period Admin Preferences must remain the default "8.0 hr/day, 40 hr/week, 172 hr/month, 2000 hr/year". Set Calendar Work Hours/Day to 8.0 Hour days.

f. Set Schedule Option for defining Critical Activities to "Longest Path".

g. Set Schedule Option for defining progressed activities to "Retained Logic".

h. Set up cost loading using a single lump sum labor resource. The Price/Unit must be $1/hr, Default Units/Time must be "8h/d", and settings "Auto Compute Actuals" and "Calculate costs from units" selected.

i. Activity ID's must not exceed 10 characters.

j. Activity Names must have the most defining and detailed description within the first 30 characters.

k. Refer and utilize schedule specification verbiage. Activity Names verbiage and acronyms are to be consistent and accurate throughout the

schedule(s). It is the discretion of the Government which verbiage and acronyms will be utilized.

-- End of Section --

SECTION 01 33 00

SUBMITTAL PROCEDURES
08/18

PART 1 GENERAL

1.1 SUMMARY

1.1.1 Submittal Information

The Contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Each submittal is to be complete and in sufficient detail to allow ready determination of compliance with contract requirements.

Units of weights and measures used on all submittals are to be the same as those used in the contract drawings.

1.1.2 Project Type

The Contractor's Quality Control (CQC) System Manager are to check and approve all items before submittal and stamp, sign, and date indicating action taken. Proposed deviations from the contract requirements are to be clearly identified. Include within submittals items such as: Contractor's, manufacturer's, or fabricator's drawings; descriptive literature including (but not limited to) catalog cuts, diagrams, operating charts or curves; test reports; test cylinders; samples; O&M manuals (including parts list); certifications; warranties; and other such required submittals.

1.1.3 Submission of Submittals

Schedule and provide submittals requiring Government approval before acquiring the material or equipment covered thereby. Pick up and dispose of samples not incorporated into the work in accordance with manufacturer's Safety Data Sheets (SDS) and in compliance with existing laws and regulations.

1.2 DEFINITIONS

1.2.1 Submittal Descriptions (SD)

Submittal requirements are specified in the technical sections. Examples and descriptions of submittals identified by the Submittal Description (SD) numbers and titles follow:

SD-01 Preconstruction Submittals

Submittals that are required prior to or at the start of construction (work) or the next major phase of the construction on a multiphase contract.

For Government approved division 01 preconstruction submittals that are required prior to or commencing with the start of work must be submitted within 30 calendar days of contract award unless specified elsewhere in the specifications. For Contractor approved division 01 submittals that are required prior to or commencing with the start of work must be submitted within 45 calendar days of contract award unless specified elsewhere in the specifications.

Preconstruction Submittals include schedules and a tabular list of locations, features, and other pertinent information regarding products, materials, equipment, or components to be used in the work.

Certificates Of Insurance

Surety Bonds

List Of Proposed Subcontractors

List Of Proposed Products

Baseline Network Analysis Schedule (NAS)

Submittal Register

Schedule Of Prices Or Earned Value Report

Accident Prevention Plan

Work Plan

Quality Control (QC) plan

Environmental Protection Plan
SD-02

SD-02 Shop Drawings

Drawings, diagrams and schedules specifically prepared to illustrate some portion of the work.

Diagrams and instructions from a manufacturer or fabricator for use in producing the product and as aids to the Contractor for integrating the product or system into the project.

Drawings prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated.

SD-03 Product Data

Catalog cuts, illustrations, schedules, diagrams, performance charts, instructions and brochures illustrating size, physical appearance and other characteristics of materials, systems or equipment for some portion of the work.

Samples of warranty language when the contract requires extended

product warranties.

SD-04 Samples

Fabricated or unfabricated physical examples of materials, equipment or workmanship that illustrate functional and aesthetic characteristics of a material or product and establish standards by which the work can be judged.

Color samples from the manufacturer's standard line (or custom color samples if specified) to be used in selecting or approving colors for the project.

Field samples and mock-ups constructed on the project site establish standards ensuring work can be judged. Includes assemblies or portions of assemblies that are to be incorporated into the project and those that will be removed at conclusion of the work.

SD-05 Design Data

Design calculations, mix designs, analyses or other data pertaining to a part of work.

Design submittals, design substantiation submittals and extensions of design submittals.

SD-06 Test Reports

Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. Unless specified in another section, testing must have been within three years of date of contract award for the project.

Report that includes findings of a test required to be performed on an actual portion of the work or prototype prepared for the project before shipment to job site.

Report that includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.

Investigation reports

Daily logs and checklists

Final acceptance test and operational test procedure

SD-07 Certificates

Statements printed on the manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that the product, system, or material meets specification requirements. Must be dated after award of project contract and clearly name the project.

Document required of Contractor, or of a manufacturer, supplier, installer or Subcontractor through Contractor. The document purpose

is to further promote the orderly progression of a portion of the work by documenting procedures, acceptability of methods, or personnel qualifications.

Confined space entry permits

Text of posted operating instructions

SD-08 Manufacturer's Instructions

Preprinted material describing installation of a product, system or material, including special notices and (SDS)concerning impedances, hazards and safety precautions.

SD-09 Manufacturer's Field Reports

Documentation of the testing and verification actions taken by manufacturer's representative at the job site, in the vicinity of the job site, or on a sample taken from the job site, on a portion of the work, during or after installation, to confirm compliance with manufacturer's standards or instructions. The documentation must be signed by an authorized official of a testing laboratory or agency and state the test results; and indicate whether the material, product, or system has passed or failed the test.

Factory test reports.

SD-10 Operation and Maintenance Data

Data provided by the manufacturer, or the system provider, including manufacturer's help and product line documentation, necessary to maintain and install equipment, for operating and maintenance use by facility personnel.

Data required by operating and maintenance personnel for the safe and efficient operation, maintenance and repair of the item.

Data incorporated in an operations and maintenance manual or control system.

SD-11 Closeout Submittals

Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.

Submittals required for Guiding Principle Validation (GPV) or Third Party Certification (TPC).

Special requirements necessary to properly close out a construction contract. For example, Record Drawings and as-built drawings. Also, submittal requirements necessary to properly close out a major phase of construction on a multi-phase contract.

1.2.2 Approving Authority

Office or designated person authorized to approve the submittal.

1.2.3 Work

As used in this section, on-site and off-site construction required by contract documents, including labor necessary to produce submittals, construction, materials, products, equipment, and systems incorporated or to be incorporated in such construction. In exception, excludes work to produce SD-01 submittals.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with this section.

SD-01 Preconstruction Submittals

Submittal Register; G, RO

1.4 SUBMITTAL CLASSIFICATION

1.4.1 Government Approved (G)

Government approval is required for extensions of design, critical materials, variations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Government.

Government approval is required for any variations from the Solicitation or the Accepted Proposal and for other items as designated by the Government.

Within the terms of the Contract Clause SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, submittals are considered to be "shop drawings."

1.4.2 For Information Only

Submittals not requiring Government approval will be for information only. Within the terms of the Contract Clause SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, they are not considered to be "shop drawings."

1.4.3 Sustainability Reporting Submittals (S)

Submittals for Guiding Principle Validation (GPV) or Third Party Certification (TPC) are indicated with an "S" designation. These submittals are for information only and for use as specified in Section 01 33 29 SUSTAINABILITY REPORTING.

Schedule submittals for these items throughout the course of construction as provided; do not wait until closeout.

1.5 PREPARATION

1.5.1 Transmittal Form

Use the ENG Form 4025-R transmittal form for submitting both Government-approved and information-only submittals. Submit in accordance

with the instructions on the reverse side of the form. These forms are included in the RMS CM software that the Contractor is required to use for this contract. Properly complete this form by filling out all the heading blank spaces and identifying each item submitted. Exercise special care to ensure proper listing of the specification paragraph and sheet number of the contract drawings pertinent to the data submitted for each item.

1.5.2 Submittal Format

1.5.2.1 Format of SD-01 Preconstruction Submittals

When the submittal includes a document that is to be used in the project, or is to become part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document itself, but to a separate sheet accompanying the document.

Provide data in the unit of measure used in the contract documents.

1.5.2.2 Format for SD-02 Shop Drawings

Provide shop drawings not less than 8 1/2 by 11 inches nor more than 30 by 42 inches, except for full-size patterns or templates. Prepare drawings to accurate size, with scale indicated, unless another form is required. Ensure drawings are suitable for reproduction and of a quality to produce clear, distinct lines and letters, with dark lines on a white background.

a. Include the nameplate data, size, and capacity on drawings. Also include applicable federal, military, industry, and technical society publication references.

b. Dimension drawings, except diagrams and schematic drawings. Prepare drawings demonstrating interface with other trades to scale. Use the same unit of measure for shop drawings as indicated on the contract drawings. Identify materials and products for work shown.

Submit an electronic copy of drawings in PDF format.

1.5.2.2.1 Drawing Identification

Include on each drawing the drawing title, number, date, and revision numbers and dates, in addition to information required in paragraph IDENTIFYING SUBMITTALS.

Number drawings in a logical sequence. Each drawing is to bear the number of the submittal in a uniform location next to the title block. Place the Government contract number in the margin, immediately below the title block, for each drawing.

Reserve a blank space, no smaller than 5 Square inches on the right-hand side of each sheet for the Government disposition stamp.

1.5.2.3 Format of SD-03 Product Data

Present product data submittals for each section. Include a table of contents, listing the page and catalog item numbers for product data.

Indicate, by prominent notation, each product that is being submitted; indicate the specification section number and paragraph number to which it pertains.

1.5.2.3.1 Product Information

Supplement product data with material prepared for the project to satisfy the submittal requirements where product data does not exist. Identify this material as developed specifically for the project, with information and format as required for submission of SD-07 Certificates.

Provide product data in units used in the Contract documents. Where product data are included in preprinted catalogs with another unit, submit the dimensions in contract document units, on a separate sheet.

1.5.2.3.2 Standards

Where equipment or materials are specified to conform to industry or technical-society reference standards of such organizations as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturer's Association (NEMA), Underwriters Laboratories (UL), or Association of Edison Illuminating Companies (AEIC), submit proof of such compliance. The label or listing by the specified organization will be acceptable evidence of compliance. In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing, and approved by the Contracting Officer. State on the certificate that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.

1.5.2.3.3 Data Submission

Collect required data submittals for each specific material, product, unit of work, or system into a single submittal that is marked for choices, options, and portions applicable to the submittal. Mark each copy of the product data identically. Partial submittals will not be accepted for expedition of the construction effort.

Submit the manufacturer's instructions before installation.

1.5.2.4 Format of SD-04 Samples

1.5.2.4.1 Sample Characteristics

Furnish samples in the following sizes, unless otherwise specified or unless the manufacturer has prepackaged samples of approximately the same size as specified:

a. Sample of Equipment or Device: Full size.

b. Sample of Materials Less Than 2 by 3 inches: Built up to 8 1/2 by 11 inches.

c. Sample of Materials Exceeding 8 1/2 by 11 inches: Cut down to 8 1/2 by 11 inches and adequate to indicate color, texture, and material variations.

d. Sample of Linear Devices or Materials: 10 inch length or length to be supplied, if less than 10 inches. Examples of linear devices or materials are conduit and handrails.

e. Sample Volume of Nonsolid Materials: Pint. Examples of nonsolid materials are sand and paint.

f. Color Selection Samples: 2 by 4 inches. Where samples are specified for selection of color, finish, pattern, or texture, submit the full set of available choices for the material or product specified. Sizes and quantities of samples are to represent their respective standard unit.

g. Sample Panel: 4 by 4 feet.

h. Sample Installation: 100 square feet.

1.5.2.4.2 Sample Incorporation

Reusable Samples: Incorporate returned samples into work only if so specified or indicated. Incorporated samples are to be in undamaged condition at the time of use.

Recording of Sample Installation: Note and preserve the notation of any area constituting a sample installation, but remove the notation at the final clean-up of the project.

1.5.2.4.3 Comparison Sample

Samples Showing Range of Variation: Where variations in color, finish, pattern, or texture are unavoidable due to nature of the materials, submit sets of samples of not less than three units showing extremes and middle of range. Mark each unit to describe its relation to the range of the variation.

When color, texture, or pattern is specified by naming a particular manufacturer and style, include one sample of that manufacturer and style, for comparison.

1.5.2.5 Format of SD-05 Design Data

Provide design data and certificates on 8 1/2 by 11 inch paper.

1.5.2.6 Format of SD-06 Test Reports

By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

1.5.2.7 Format of SD-07 Certificates

Provide design data and certificates on 8 1/2 by 11 inch paper.

1.5.2.8 Format of SD-08 Manufacturer's Instructions

Present manufacturer's instructions submittals for each section. Include the manufacturer's name, trade name, place of manufacture, and catalog model or number on product data. Also include applicable federal, military, industry, and technical-society publication references. If supplemental information is needed to clarify the manufacturer's data, submit it as specified for SD-07 Certificates.

Submit the manufacturer's instructions before installation.

1.5.2.8.1 Standards

Where equipment or materials are specified to conform to industry or technical-society reference standards of such organizations as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturer's Association (NEMA), Underwriters Laboratories (UL), or Association of Edison Illuminating Companies (AEIC), submit proof of such compliance. The label or listing by the specified organization will be acceptable evidence of compliance. In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing, and approved by the Contracting Officer. State on the certificate that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.

1.5.2.9 Format of SD-09 Manufacturer's Field Reports

By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

1.5.2.10 Format of SD-10 Operation and Maintenance Data (O&M)

Comply with the requirements specified in Section 01 78 23 OPERATION AND MAINTENANCE DATA for O&M Data format.

1.5.2.11 Format of SD-11 Closeout Submittals

When the submittal includes a document that is to be used in the project or is to become part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document itself, but to a separate sheet accompanying the document.

Provide data in the unit of measure used in the contract documents.

1.5.3 Source Drawings for Shop Drawings

1.5.3.1 Source Drawings

The entire set of source drawing files (DWG) will not be provided to the Contractor. Request the specific Drawing Number for the preparation of shop drawings. Only those drawings requested to prepare shop drawings will be provided. These drawings are provided only after award.

1.5.3.2 Terms and Conditions

Data contained on these electronic files must not be used for any purpose other than as a convenience in the preparation of construction data for the referenced project. Any other use or reuse is at the sole risk of the Contractor and without liability or legal exposure to the Government. The Contractor must make no claim, and waives to the fullest extent permitted by law any claim or cause of action of any nature against the Government, its agents, or its subconsultants that may arise out of or in connection with the use of these electronic files. The Contractor must, to the fullest extent permitted by law, indemnify and hold the Government harmless against all damages, liabilities, or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the

use of these electronic files.

These electronic source drawing files are not construction documents. Differences may exist between the source drawing files and the corresponding construction documents. The Government makes no representation regarding the accuracy or completeness of the electronic source drawing files, nor does it make representation to the compatibility of these files with the Contractor hardware or software. The Contractor is responsible for determining if any conflict exists. In the event that a conflict arises between the signed and sealed construction documents prepared by the Government and the furnished source drawing files, the signed and sealed construction documents govern. Use of these source drawing files does not relieve the Contractor of the duty to fully comply with the contract documents, including and without limitation the need to check, confirm and coordinate the work of all contractors for the project. If the Contractor uses, duplicates or modifies these electronic source drawing files for use in producing construction data related to this contract, remove all previous indication of ownership (seals, logos, signatures, initials and dates).

1.5.4 Electronic File Format

Provide submittals in electronic format, with the exception of material samples required for SD-04 Samples items. In addition to the electronic submittal, provide three hard copies of the submittals when requested. Compile the submittal file as a single, complete document, to include the Transmittal Form described within. Name the electronic submittal file specifically according to its contents, and coordinate the file naming convention with the Contracting Officer. Electronic files must be of sufficient quality that all information is legible. Use PDF as the electronic format, unless otherwise specified or directed by the Contracting Officer. Generate PDF files from original documents with bookmarks so that the text included in the PDF file is searchable and can be copied. If documents are scanned, optical character resolution (OCR) routines are required. Index and bookmark files exceeding 30 pages to allow efficient navigation of the file. When required, the electronic file must include a valid electronic signature or a scan of a signature.

E-mail electronic submittal documents smaller than 10MB to an e-mail address as directed by the Contracting Officer. Provide electronic documents over 10 MB on an optical disc or through an electronic file sharing system such as the DoD SAFE Web Application located at the following website: https://safe.apps.mil/.

If hard copies are requested in addition to the electronic copy, the date at which the submittal review process starts is the date that the hard copy is in receipt by the Government.

1.6 QUANTITY OF SUBMITTALS

1.6.1 Number of SD-01 Preconstruction Submittal Copies

Unless otherwise specified, submit administrative submittals electronically.

1.6.2 Number of SD-04 Samples

a. Submit two samples, or two sets of samples showing the range of variation, of each required item. One approved sample or set of samples will be retained by the approving authority and one will be

returned to the Contractor.

b. Submit one sample panel or provide one sample installation where directed. Include components listed in the technical section or as directed.

c. Submit one sample installation, where directed.

d. Submit one sample of nonsolid materials.

1.7 INFORMATION ONLY SUBMITTALS

Submittals without a "G" designation must be certified by the QC manager and submitted to the Contracting Officer for information-only. Approval of the Contracting Officer is not required on information only submittals. The Contracting Officer will mark "receipt acknowledged" on submittals for information and will return only the transmittal cover sheet to the Contractor. Normally, submittals for information only will not be returned. However, the Government reserves the right to return unsatisfactory submittals and require the Contractor to resubmit any item found not to comply with the contract. This does not relieve the Contractor from the obligation to furnish material conforming to the plans and specifications; will not prevent the Contracting Officer from requiring removal and replacement of nonconforming material incorporated in the work; and does not relieve the Contractor of the requirement to furnish samples for testing by the Government laboratory or for check testing by the Government in those instances where the technical specifications so prescribe.

1.8 PROJECT SUBMITTAL REGISTER

A sample Project Submittal Register showing items of equipment and materials for when submittals are required by the specifications is provided as "Appendix A - Submittal Register."

1.8.1 Submittal Management

Prepare and maintain a submittal register, as the work progresses. Do not change data that is output in columns (c), (d), (e), and (f) as delivered by Government; retain data that is output in columns (a), (g), (h), and (i) as approved. As an attachment, provide a submittal register showing items of equipment and materials for which submittals are required by the specifications. This list may not be all-inclusive and additional submittals may be required. Maintain a submittal register for the project in accordance with Section 01 45 00.15 10 RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE(RMS CM). The Government will provide the initial submittal register in electronic format with the following fields completed, to the extent that will be required by the Government during subsequent usage.

Column (c): Lists specification section in which submittal is required.

Column (d): Lists each submittal description (SD Number. and type, e.g., SD-02 Shop Drawings) required in each specification section.

Column (e): Lists one principal paragraph in each specification section where a material or product is specified. This listing is

only to facilitate locating submitted requirements. Do not consider entries in column (e) as limiting the project requirements.

Thereafter, the Contractor is to track all submittals by maintaining a complete list, including completion of all data columns and all dates on which submittals are received by and returned by the Government.

1.8.2 Preconstruction Use of Submittal Register

Submit the submittal register. Include the QC plan and the project schedule. Verify that all submittals required for the project are listed and add missing submittals. Coordinate and complete the following fields on the register submitted with the QC plan and the project schedule:

Column (a) Activity Number: Activity number from the project schedule.

Column (g) Contractor Submit Date: Scheduled date for the approving authority to receive submittals.

Column (h) Contractor Approval Date: Date that Contractor needs approval of submittal.

Column (i) Contractor Material: Date that Contractor needs material delivered to Contractor control.

1.8.3 Contractor Use of Submittal Register

Update the following fields in the Government-furnished submittal register program or equivalent fields in the program used by the Contractor with each submittal throughout the contract.

Column (b) Transmittal Number: List of consecutive, Contractor-assigned numbers.

Column (j) Action Code (k): Date of action used to record Contractor's review when forwarding submittals to QC.

Column (l) Date submittal transmitted.

Column (q) Date approval was received.

1.8.4 Approving Authority Use of Submittal Register

Update the following fields:

Column (b) Transmittal Number: List of consecutive, Contractor-assigned numbers.

Column (l) Date submittal was received.

Column (m) through (p) Dates of review actions.

Column (q) Date of return to Contractor.

1.8.5 Action Codes

1.8.5.1 Contractor Action Codes

DESIGN BID BUILD SUBMITTALS			
Submittal Classifications shown in UFGS Sections	Submittal Classification	Corresponding SpecsIntact Submittal Register Code which is populated in the SI Submittal Register. Software Limitations: (The software shows one character delineation in the SpecsIntact Submittal Register)	RMS – The following Submittal Classifications are populated in RMS when the SpecsIntact Submittal Data File is pulled into RMS)
G	Submittal requires Government Approval	G	GA
BLANK	Submittal is For Information Only (FIO)	BLANK	FIO
S	Submittal is for documentation of Sustainable requirements	S	S/FIO
AE	Submittal requires the Designer of Record approval	AE	DA

1.8.6 Delivery of Copies

Submit an updated electronic copy of the submittal register to the Contracting Officer with each invoice request. Provide an updated Submittal Register monthly regardless of whether an invoice is submitted.

1.9 VARIATIONS

Variations from contract requirements require Contracting Officer approval pursuant to contract Clause FAR 52.236-21 Specifications and Drawings for Construction, and will be considered where advantageous to the Government.

1.9.1 Considering Variations

Discussion of variations with the Contracting Officer before submission will help ensure that functional and quality requirements are met and minimize rejections and resubmittals.

Specifically point out variations from contract requirements in a transmittal letter. Failure to point out variations may cause the

Government to require rejection and removal of such work at no additional cost to the Government.

1.9.2 Proposing Variations

The Contracting Officer will indicate an approval or disapproval of the variation request; and if not approved as submitted, will indicate the Government's reasons therefore. Any work done before such approval is received is performed at the Contractor's risk."

Specifically point out variations from contract requirements in a transmittal letter. Failure to point out variations may cause the Government to require rejection and removal of such work at no additional cost to the Government.

Check the column "variation" of ENG Form 4025-R for submittals that include variations proposed by the Contractor. Set forth in writing the reason for any variations and note such variations on the submittal. The Government reserves the right to rescind inadvertent approval of submittals containing unnoted variations.

1.9.3 Warranting that Variations are Compatible

When delivering a variation for approval, the Contractor warrants that this contract has been reviewed to establish that the variation, if incorporated, will be compatible with other elements of work.

1.9.4 Review Schedule Extension

In addition to the normal submittal review period, a period of 14 calendar days will be allowed for the Government to consider submittals with variations.

1.10 SCHEDULING

Schedule and submit concurrently product data and shop drawings covering component items forming a system or items that are interrelated. Submit pertinent certifications at the same time. No delay damages or time extensions will be allowed for time lost in late submittals. Allow an additional 21 calendar days for review and approval of submittals for refrigeration and HVAC control systems.

a. Coordinate scheduling, sequencing, preparing, and processing of submittals with performance of work so that work will not be delayed by submittal processing. The Contractor is responsible for additional time required for Government reviews resulting from required resubmittals. The review period for each resubmittal is the same as for the initial submittal.

b. Submittals required by the contract documents are listed on the submittal register. If a submittal is listed in the submittal register but does not pertain to the contract work, the Contractor is to include the submittal in the register and annotate it "N/A" with a brief explanation. Approval by the Contracting Officer does not relieve the Contractor of supplying submittals required by the contract documents but that have been omitted from the register or

marked "N/A."

c. Resubmit the submittal register and annotate it monthly with actual submission and approval dates. When all items on the register have been fully approved, no further resubmittal is required.

Contracting Officer review will be completed within 30 calendar days after the date of submission.

1.11 GOVERNMENT APPROVING AUTHORITY

When the approving authority is the Contracting Officer, the Government will:

a. Note the date on which the submittal was received.

b. Review submittals for approval within the scheduling period specified and only for conformance with project design concepts and compliance with contract documents.

c. Identify returned submittals with one of the actions defined in paragraph REVIEW NOTATIONS and with comments and markings appropriate for the action indicated.

Upon completion of review of submittals requiring Government approval, stamp and date submittals. Electronic copies of the submittal will be retained by the Contracting Officer and distributed to the Contractor unless specified otherwise.One copy of the submittal will be retained by the Contracting Officer and two copies of the submittal will be returned to the Contractor, when hard copy submittals are requested.

1.11.1 Review Notations

Submittals will be returned to the Contractor with the following notations:

a. Submittals marked "approved" or "accepted" authorize proceeding with the work covered.

b. Submittals marked "approved as noted" or "approved, except as noted, resubmittal not required," authorize proceeding with the work covered provided that the Contractor takes no exception to the corrections.

c. Submittals marked "not approved," "disapproved," or "revise and resubmit" indicate incomplete submittal or noncompliance with the contract requirements or design concept. Resubmit with appropriate changes. Do not proceed with work for this item until the resubmittal is approved.

d. Submittals marked "not reviewed" indicate that the submittal has been previously reviewed and approved, is not required, does not have evidence of being reviewed and approved by Contractor, or is not complete. A submittal marked "not reviewed" will be returned with an explanation of the reason it is not reviewed. Resubmit submittals returned for lack of review by Contractor or for being incomplete, with appropriate action, coordination, or change.

e. Submittals marked "receipt acknowledged" indicate that submittals have been received by the Government. This applies only to "information-only submittals" as previously defined.

1.12 DISAPPROVED SUBMITTALS

Make corrections required by the Contracting Officer. If the Contractor considers any correction or notation on the returned submittals to constitute a change to the contract drawings or specifications, give notice to the Contracting Officer as required under the FAR clause titled CHANGES. The Contractor is responsible for the dimensions and design of connection details and the construction of work. Failure to point out variations may cause the Government to require rejection and removal of such work at the Contractor's expense.

If changes are necessary to submittals, make such revisions and resubmit in accordance with the procedures above. No item of work requiring a submittal change is to be accomplished until the changed submittals are approved.

1.13 APPROVED SUBMITTALS

The Contracting Officer's approval of submittals is not to be construed as a complete check, and indicates only that the general method of construction, materials, detailing, and other information are satisfactory. the design, general method of construction, materials, detailing, and other information appear to meet the Solicitation and Accepted Proposal.

Approval or acceptance by the Government for a submittal does not relieve the Contractor of the responsibility for meeting the contract requirements or for any error that may exist, because under the Quality Control (QC) requirements of this contract, the Contractor is responsible for ensuring information contained with in each submittal accurately conforms with the requirements of the contract documents.

After submittals have been approved or accepted by the Contracting Officer, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

1.14 APPROVED SAMPLES

Approval of a sample is only for the characteristics or use named in such approval and is not be construed to change or modify any contract requirements. Before submitting samples, provide assurance that the materials or equipment will be available in quantities required in the project. No change or substitution will be permitted after a sample has been approved.

Match the approved samples for materials and equipment incorporated in the work. If requested, approved samples, including those that may be damaged in testing, will be returned to the Contractor, at its expense, upon completion of the contract. Unapproved samples will also be returned to the Contractor at its expense, if so requested.

Failure of any materials to pass the specified tests will be sufficient cause for refusal to consider, under this contract, any further samples of the same brand or make as that material. The Government reserves the right to disapprove any material or equipment that has previously proved unsatisfactory in service.

Samples of various materials or equipment delivered on the site or in place may be taken by the Contracting Officer for testing. Samples

failing to meet contract requirements will automatically void previous approvals. Replace such materials or equipment to meet contract requirements.

1.15 WITHHOLDING OF PAYMENT

Payment for materials incorporated in the work will not be made if required approvals have not been obtained. No payment for materials incorporated in the work will be made unless all required DOR approvals or required Government approvals have been obtained. There will be no partial payment made respective of partial delivery of the As-built/Operations and Maintenance requirements, training, commissioning, punch lists, etc. Payment is made for 100 percent submission of closeout submittals only.

1.16 STAMPS

Certify the submittal data as follows on Form ENG 4025: "I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

_____NAME OF CONTRACTOR _____ SIGNATURE OF CONTRACTOR

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

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SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
West Point Lincoln Hall

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAG # RAPH	CLASSIFICATION	GOVT OR A/E REVWR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION			APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
							SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 11 00	SD-01 Preconstruction Submittals															
			Dig Safe Permit	1.10.1														
		01 14 00	SD-01 Preconstruction Submittals															
			List of Contact Personnel	1.3.4.1														
		01 30 00	SD-01 Preconstruction Submittals															
			View Location Map	1.4	G	RO												
			Progress and Completion	1.5	G	RO												
			Pictures															
			Preconstruction Video Recording	1.5.5.2														
			Preconstruction Digital	1.5.4.2														
			Photographs															
			Work To Be Performed By The	1.10	G	RO												
			Contractor															
			Eng Form 93	1.20	G	RO												
			Eng Form 93	1.20	G	RO												
			Eng Form 93	1.20	G	RO												
			SD-04 Samples															
			Color Boards	1.3	G	RO												
			SD-05 Design Data															
			Periodic Construction Video	1.5.5.3														
			Recordings															
			Periodic Construction Digital	1.5.4.3														
			Photographs															
			Final Completion Construction	1.5.5.4														
			Video Recordings															
			SD-07 Certificates															

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		01 30 00	Eng Form 93	1.20	G	RO													
			Eng Form 93	1.20	G	RO													
			Eng Form 93	1.20	G	RO													
			SD-11 Closeout Submittals																
			Final Completion Construction	1.5.4.4															
			Digital Photographs																
		01 32 01.00 10	SD-01 Preconstruction Submittals																
			Project Scheduler Qualifications	1.3	G	RO													
			Preliminary Project Schedule	3.7.1	G	RO													
			Initial Project Schedule	3.7.2	G	RO													
			Periodic Schedule Update	3.9.2	G	RO													
			Narrative Report	3.8.2	G	RO													
		01 33 00	SD-01 Preconstruction Submittals																
			Submittal Register	1.8	G	RO													
		01 33 29	SD-01 Preconstruction Submittals																
			Preliminary High Performance	1.5.3.1	S	RO													
			and Sustainable Building Checklist																
			Sustainability Action Plan	1.4.1	S	RO													
			Preliminary Sustainability	1.5.3.1	G	RO													
			eNotebook																
			SD-11 Closeout Submittals																
			Final High Performance and	1.5.3.1	S	RO													
			Sustainable Building Checklist																
			Final Sustainability eNotebook	1.5.3.1	G	RO													
			Amended Final Sustainability	1.5.3.1	G	RO													
			eNotebook																

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		01 33 29	Amended Final High	1.5.3.1	S	RO												
			Performance and Sustainable															
			Building Checklist															
			Third Party Certification	3.2	G	RO												
			Certificate, Assessment, or															
			Validation															
		01 35 26	SD-01 Preconstruction Submittals															
			APP - Construction	1.7.1	G	RO												
			Accident Prevention Plan (APP)	1.7	G	RO												
			SD-06 Test Reports															
			Monthly Exposure Reports	1.4														
			Notifications and Reports	1.12														
			Accident Reports	1.12.2	G	RO												
			LHE Inspection Reports	1.12.3														
			SD-07 Certificates															
			Crane Operators/Riggers	1.6.1.5														
			Standard Lift Plan	1.7.3.2	G	RO												
			Critical Lift Plan	1.7.3.3	G	RO												
			Activity Hazard Analysis (AHA)	1.8														
			Confined Space Entry Permit	1.9.1														
			Hot Work Permit	1.9.1														
			Certificate of Compliance	1.12.4														
			License Certificates	1.14														
			Radiography Operation Planning	1.14.1	G	RO												
			Work Sheet															

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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 35 26	Portable Gauge Operations	1.14.1	G	RO												
			Planning Worksheet															
		01 45 00.00 10	SD-01 Preconstruction Submittals															
			Contractor Quality Control (CQC)	3.2	G	RO												
			Plan															
			SD-06 Test Reports															
			Verification Statement	3.9.2														
			SD-07 Certificates															
			QCR Report	3.10	G	RO												
		01 45 35	SD-07 Certificates															
			AISC Certified Steel Fabricator	2.1														
			AC472 Accreditation	2.1														
			Certificate of Compliance	2.1														
			Testing and Inspection Agency	1.4	G	AE												
			Qualifications															
			Special Inspector	1.6	G	AE												
		01 50 00	SD-01 Preconstruction Submittals															
			Construction Site Plan	1.4	G	RO												
			Traffic Control Plan	3.4.1	G	RO												
			Haul Road Plan	2.2.1	G	RO												
			Contractor Computer	1.7.1.4	G	RO												
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.7.6	G	RO												
			Cybersecurity Compliance															
			Statements															

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		01 50 00	SD-06 Test Reports																
			Backflow Preventer Tests	3.5															
			SD-07 Certificates																
			Backflow Tester	1.5.1															
			Backflow Preventers	1.5															
		01 57 19	SD-01 Preconstruction Submittals																
			Preconstruction Survey	1.5.1															
			Solid Waste Management Permit	1.10	G	RO													
			Regulatory Notifications	1.5.2	G	RO													
			Environmental Protection Plan	1.6	G	RO													
			Stormwater Pollution Prevention	3.2.1.1	G	RO													
			Plan																
			Stormwater Notice of Intent	3.2.1.2	G	RO													
			Dirt and Dust Control Plan	1.6.9.1	G	RO													
			Employee Training Records	1.5.5	G	RO													
			Environmental Manager	1.5.4	G	RO													
			Qualifications																
			SD-06 Test Reports																
			Inspection Reports	3.2.1.3															
			Monthly Solid Waste Disposal	1.10.1	G	RO													
			Report																
			SD-07 Certificates																
			Employee Training Records	1.5.5	G	RO													
			Certificate of Competency	1.5.5.1															
			Erosion and Sediment Control	1.5.5															
			Inspector																

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		01 57 19	SD-11 Closeout Submittals															
			Stormwater Pollution Prevention	3.2.1.4	G	RO												
			Plan Compliance Notebook															
			Stormwater Notice of Termination	3.2.1.5	G	RO												
			Waste Determination	3.8.1	G	RO												
			Documentation															
			Disposal Documentation for	3.8.3.6	G	RO												
			Hazardous and Regulated Waste															
			Assembled Employee Training	1.5.5	G	RO												
			Records															
			Solid Waste Management Permit	1.10	G	RO												
			Project Solid Waste Disposal	3.8.2.1	G	RO												
			Documentation Report															
			Hazardous Waste/Debris	3.8.3.1	G	RO												
			Management															
			Regulatory Notifications	1.5.2	G	RO												
			Sales Documentation	3.8.2.1	G	RO												
		01 58 00	SD-02 Shop Drawings															
			Sign Legend Orders	1.4.1	G	RO												
		01 74 19	SD-01 Preconstruction Submittals															
			Construction Waste Management	1.6	S	RO												
			Plan															
			SD-06 Test Reports															
			Quarterly Reports	1.8.2														
			Annual Report	1.8.3														
			SD-11 Closeout Submittals															

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		01 74 19	Final Construction Waste	1.9	S														
			Diversion Report																
		01 78 00	SD-03 Product Data																
			Warranty Management Plan	1.9.1															
			Warranty Tags	1.9.5															
			Spare Parts Data	1.7															
			SD-08 Manufacturer's Instructions																
			Instructions	1.9.1															
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.7	G	RO													
			Manuals																
			SD-11 Closeout Submittals																
			As-Built Drawings	3.1	G	RO													
			Record Drawings	3.3	G	RO													
			Record Model	2.2	G	RO													
			As-Built Record of Equipment	1.9.1															
			and Materials																
			As-Built Record of Equipment	3.6															
			and Materials																
			Final Approved Shop Drawings	3.4	G	RO													
			Construction Contract	3.5	G	RO													
			Specifications																
			Certification of EPA Designated	2.3	G	RO													
			Items																

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		01 78 00	Certification Of USDA Designated	2.4	G	RO												
			Items															
			Interim DD FORM 1354	3.9.1	G	RO												
			Checklist for DD FORM 1354	3.9.2	G	RO												
			High Performance and	3.9.2	G													
			Sustainable Building (HPSB)															
			Checklist															
		01 78 23	SD-10 Operation and Maintenance															
			Data															
			O&M Database	1.3	G	RO												
			Training Plan	3.1.1	G	RO												
			Training Outline	3.1.3	G	RO												
			Training Content	3.1.2	G	RO												
			SD-11 Closeout Submittals															
			Training Video Recording	3.1.4	G	RO												
			Validation of Training Completion	3.1.6	G	RO												
		01 78 24.00 10	SD-01 Preconstruction Submittals															
			Facility Data Project Execution	1.4.1														
			Plan															
			SD-10 Operation and Maintenance															
			Data															
			Facility Data Workbook,	3.1	G	RO												
			Construction Progress															
			Facility Document Set,	3.1	G	RO												
			Construction Progress															
			SD-11 Closeout Submittals															

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		01 78 24.00 10	Facility Data Workbook,	3.2	G	RO												
			Construction Final															
			Facility Document Set,	1.4.3	G	RO												
			Construction Final															
			Facility Document Set,	3.2	G	RO												
			Construction Final															
		01 91 00.15 10	SD-06 Test Reports															
			Building Envelope Inspection	1.10	G	DO												
			Checklists															
			Building Envelope Inspection	3.1.5.2	G	DO												
			Checklists															
			Completed Pre-Functional		G	DO												
			Checklists															
			Issues Log	1.9														
			Commissioning Report	3.2	G													
			Post-Construction Trend Log	3.3.1	G	DO												
			Report															
			Performance Verification Test	1.5.1	G	DO												
			Report															
			SD-07 Certificates															
			Certificate of Readiness	1.10	G	DO												
			SD-10 Operation and Maintenance															
			Data															
			Training Plan	3.1.6	G	RO												
			Training Attendance Rosters	3.1.6	G	RO												

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		01 91 00.15 10	Maintenance and Service Life	3.1.8	G	DO												
			Plans															
		02 41 00	SD-01 Preconstruction Submittals															
			Demolition Plan	1.2.2	S	RO												
			Deconstruction Plan	1.2.2	S	RO												
			Existing Conditions	1.10														
			Scaled And Dimensioned	1.10.2														
			Drawings Of All Major Existing To															
			Remain Architectural And															
			Structural Elements															
			SD-07 Certificates															
			Notification	1.7	G	RO												
		02 82 00	SD-03 Product Data															
			Amended Water	1.2.2	G													
			Safety Data Sheets (SDS) for All	1.3.9	G													
			Materials															
			Encapsulants	2.1	G													
			Respirators	3.1.2.1	G													
			Local Exhaust Equipment	3.1.7	G													
			Pressure Differential Automatic	3.1.7	G													
			Recording Instrument															
			Vacuums	3.1.8	G													
			SD-06 Test Reports															
			Air Sampling Results	1.5.5	G													
			Pressure Differential Recordings	1.5.6	G													
			for Local Exhaust System															

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		02 82 00	Clearance Sampling	3.2	G														
			Clearance Sampling	3.2.12.4	G														
			Asbestos Disposal Quantity	3.3.3.2	G														
			Report																
			SD-07 Certificates																
			Employee Training	1.3.4	G														
			Notifications	1.3.5	G														
			Respiratory Protection Program	1.3.7	G														
			Asbestos Hazard Abatement Plan	1.3.10	G														
			Testing Laboratory	1.3.11	G														
			Landfill Approval	1.3.12	G														
			Delivery Tickets	1.3.12	G														
			Waste Shipment Records	1.3.12	G														
			Transporter Certification	1.3.13	G														
			Medical Certification	1.3.14	G														
			Private Qualified Person	1.5.1	G														
			Documentation																
			Designated Competent Person	1.5.2	G														
			Worker's License	1.5.3	G														
			Contractor's License	1.5.4	G														
			Federal, State or Local Citations	1.5.7	G														
			on Previous Projects																
			Encapsulants	2.1	G														
			Equipment Used to Contain	3.1	G														
			Airborne Asbestos Fibers																
			Water Filtration Equipment	3.1.3.2	G														

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		02 82 00	Vacuums	3.1.8	G													
			Ventilation Systems	3.1.8	G													
			SD-11 Closeout Submittals															
			Permits and Licenses	1.3.5	G													
			Notifications	1.3.5	G													
			Respirator Program Records	1.3.7.1	G													
			Rental Equipment	1.7.1	G													
		02 83 00	SD-01 Preconstruction Submittals															
			Competent Person	1.5.1.1	G													
			Training Certification	1.5.1.2	G													
			Medical Examinations	1.5.2.3	G													
			Lead, Cadmium, Chromium	1.5.2.7	G													
			Waste Management Plan															
			Licenses, Permits and	1.5.4	G													
			Notifications															
			Lead, Cadmium, Chromium	1.5.2.2	G													
			Compliance Plan															
			Lead, Cadmium, Chromium	3.1.1.5	G													
			Compliance Plan															
			Initial Sample Results	3.4.1.1	G													
			Written Evidence of TSD	3.5.2.1	G													
			Approval															
			SD-03 Product Data															
			Respirators	1.6.1	G													
			Vacuum Filters	1.6.4	G													
			Negative Air Pressure System	1.6.7	G													

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		02 83 00	Materials and Equipment	2.1	G													
			Expendable Supplies	2.1.1	G													
			Local Exhaust Equipment	3.1.1.4	G													
			Pressure Differential Automatic	3.1.1.4	G													
			Recording Instrument															
			Pressure Differential Log	3.1.1.5	G													
			SD-06 Test Reports															
			Sampling and Analysis	1.3.3	G													
			Sampling Results	1.5.1.5	G													
			Pressure Differential Recordings	1.5.3	G													
			For Local Exhaust System															
			SD-07 Certificates															
			Testing Laboratory	1.5.1.3	G													
			Third Party Consultant	1.5.1.4	G													
			Qualifications															
			Notification of the	3.1.1.1	G													
			Commencement of LBP Hazard															
			Abatement															
			Clearance Certification	3.5.1.1	G													
			SD-11 Closeout Submittals															
			Hazardous Waste Manifest	3.5.2.1	G													
			Turn-In Documents or Weight	3.5.2.1	G													
			Tickets															
		02 85 00	SD-01 Preconstruction Submittals															
			Ventilation System Mold	1.2.26	G													
			Remediator Qualifications															

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		02 85 00	Preliminary Visual Assessment Report	1.4.1.1	G													
			Microbial Remediation Plan	1.4.1.2	G													
			Respiratory Protection Program	1.4.1.3	G													
			Worker Records	1.4.1.4														
			Certified Industrial Hygienist (CIH)/Industrial Hygienist (IH) Qualifications	1.4.1.5	G													
			Microbial Remediation Supervisor Qualifications	1.4.1.6	G													
			SD-03 Product Data															
			Disinfectants or Biocide Sanitizing Solutions	1.2.11	G													
			Fungicidal Agents, (EPA)	1.2.14	G													
			Personal Protective Equipment (PPE)	1.2.21	G													
			Pressure Differential Measuring Instrument	1.2.24														
			Safety Data Sheets (SDS) for All Materials	2.2	G													
			Dehumidifiers	3.1.4														
			Air Filtration Units	3.1.5														
			SD-06 Test Reports															
			IH Daily Reports	1.4.3	G													
			SD-11 Closeout Submittals															

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		02 85 00	Submittals at Completion of	1.4.4	G														
			Remediation Work																
		03 30 00	SD-01 Preconstruction Submittals																
			Concrete Curing Plan	1.6.3.1															
			Quality Control Plan	1.6.5	G														
			Quality Control Personnel	1.6.6	G														
			Certifications																
			Quality Control Organizational	1.6.6															
			Chart																
			Laboratory Accreditation	1.6.8	G														
			Form Removal Schedule	1.6.2.1	G														
			Maturity Method Data	3.3.10															
			SD-02 Shop Drawings																
			Formwork	1.6.2.1															
			Reinforcing Steel	1.6.2.2	G	AE													
			SD-03 Product Data																
			Recycled Content for Steel	2.6.1	S														
			Reinforcement																
			Environmental Product	1.8.2	S														
			Declarations (EPD) for Portland																
			Cement, Slag, and Fly Ash																
			Semirigid Joint Filler	2.4.4															
			Joint Sealants	2.4.5															
			Expansion and Isolation Joint	2.4.3															
			Filler																
			Formwork Materials	2.1															

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		03 30 00	Recycled Aggregate Materials	2.3.3.3	S														
			Cementitious Materials	2.3.1	S														
			Vapor Retarder	2.4.6															
			Concrete Curing Materials	2.4.1															
			Reinforcement	2.6															
			Admixtures	2.3.4															
			Waterstops	2.2.2															
			Local/Regional Materials	1.8.1	S														
			Biodegradable Form Release	2.2.3	S														
			Agent																
			Pumping Concrete	1.6.3.2															
			Nonshrink Grout	2.4.2															
			SD-05 Design Data																
			Concrete Mix Design	1.6.1.2	S														
			Formwork Calculations	1.6.1.1															
			SD-06 Test Reports																
			Concrete Mix Design	1.6.1.2	S														
			Fly Ash	1.6.4.1															
			Pozzolan	1.6.4.1															
			Slag Cement	1.6.4.2															
			Aggregates	1.6.4.3															
			Tolerance Report	3.10.2.1															
			Compressive Strength Tests	3.13.2.3	G														
			Unit Weight of Structural	3.13.2.5															
			Concrete																
			Chloride Ion Concentration	3.13.2.6															

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		03 30 00	Air Content	3.13.2.4															
			Slump Tests	3.13.2.1															
			Water	2.3.2															
			SD-07 Certificates																
			Reinforcing Bars	2.6.1															
			Welder Qualifications	1.9															
			Silica Fume Manufacturer's	1.6.3.3															
			Representative																
			Indoor air quality for concrete	1.6.3.4	S														
			curing compound																
			Indoor air quality for	1.6.3.4	S														
			waterproofing sealer																
			Indoor air quality for form release	1.6.3.4	S														
			agent																
			Safety Data Sheets	1.6.3.5															
			Field Testing Technician and	1.6.6.2															
			Testing Agency																
			SD-08 Manufacturer’s Instructions																
			Joint Sealants	2.4.5															
			Curing Compound	2.4.1															
		03 42 13.00 10	SD-01 Preconstruction Submittals																
			Quality Control Procedures	1.3.2.2															
			SD-02 Shop Drawings																
			Standard Precast Units	2.1.1	G														
			Custom-Made Precast Units	2.1.2	G														
			Special Finishes	3.2.4.3															

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		03 42 13.00 10	SD-03 Product Data															
			Standard Precast Units	2.1.1														
			Proprietary Precast Units	2.1.3														
			Embedded Items	3.1.3														
			Accessories	2.2.5														
			Environmental Product	2.2.1	S													
			Declarations (EPD) for Portland															
			Cement, Slag, and Fly Ash															
			SD-05 Design Data															
			Design Calculations	2.1.2	G													
			Concrete Mix Proportions	2.1.5.1														
			SD-06 Test Reports															
			Test Reports	1.3.2.4														
			SD-07 Certificates															
			Quality Control Procedures	1.3.2.2														
			SD-11 Closeout Submittals															
			Recycled content for fly ash and	2.2.1	S													
			pozzolan															
			Recycled content for Ground Iron	2.2.1	S													
			Blast-Furnace Slag															
			Recycled content for Silica Fume	2.2.1	S													
			Recycled content for Synthetic	2.2.1	S													
			Fiber Reinforcement															
			Recycled content for steel	2.2.1	S													
		03 45 00	SD-01 Preconstruction Submittals															
			Pre-Installation Meeting	1.12.12														

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		03 45 00	SD-02 Shop Drawings															
			Precast Drawings	1.12.9	G	AE												
			SD-03 Product Data															
			Cast-In Embedded Items And	2.3	G	RO												
			Connectors															
			Connection Devices	2.3.2	G	RO												
			Admixtures	2.2.5														
			Gasket	2.5														
			Thin Brick Veneer	2.6.1	G	AE												
			Environmental Product	2.2.1	S													
			Declarations (EPD) for Portland															
			Cement, Slag, and Fly Ash															
			SD-04 Samples															
			Concrete Wall Panel Surface	1.12.10	G	AE												
			Finish															
			Brick Color Chips	2.6.1	G	AE												
			Form Liner	2.6.1														
			Full Size Sample Wall Panel	1.12.10														
			SD-05 Design Data															
			Design Calculations	1.5.4	G	AE												
			Contractor-Furnished Mix Design	2.1.1	G	RO												
			Repair of Surface Defects	2.4.9	G													
			SD-06 Test Reports															
			Strength Tests	1.11.2	G	RO												
			Slump	1.11.2														
			Air Content	1.11.2														

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		03 45 00	Test for Concrete Materials	1.11.1															
			Water	2.2.6															
			Testing Precast Units for Strength	3.6.4															
			SD-07 Certificates																
			Manufacturer's Qualifications	1.4	G	RO													
			Fabricator Quality Certifications	1.8.1															
			Erector Certification	1.9															
			Erector's Post Audit Declaration	1.10															
			SD-08 Manufacturer’s Instructions																
			Installation	3.3	G	RO													
			Cleaning	3.8	G	RO													
			Thin Brick	2.6.1															
			SD-11 Closeout Submittals																
			Batch Ticket Information	1.12.11	G	RO													
			Recycled Content for Fly Ash and	2.2.1	S														
			Pozzolan																
			Recycled Content for Ground Iron	2.2.1	S														
			Blast-Furnace Slag																
			Recycled Content for Silica Fume	2.2.1	S														
			Recycled content for steel	2.2.1	S														
		04 03 00	SD-01 Preconstruction Submittals																
			Quality Control Plan	1.5.1	G														
			Project Training Program	1.5.1	G														
			Qualifications	1.5.2	G														
			SD-02 Shop Drawings																
			Photographic Documentation	1.5.5															

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		04 03 00	SD-03 Product Data																
			Qualifications	1.5.2															
			Cleaning and Restoration	1.5.6	G														
			Methods																
			Cleaning Materials	2.1	G														
			Repair Materials	2.2	G														
			Replacement Mortar	2.2.2.2	G														
			Mortar Mix	2.4	G														
			SD-04 Samples																
			Mock-ups	1.5.7.1	G														
			Repair Materials	2.2	G														
			SD-06 Test Reports																
			Testing and Matching	2.2.2.1															
			SD-07 Certificates																
			Repair Materials	2.2															
		04 03 10	SD-01 Preconstruction Submittals																
			Quality Control Plan	1.5.1	G														
			Project Training Program	1.5.1	G														
			Qualifications	1.5.2	G														
			SD-02 Shop Drawings																
			Photographic Documentation	1.5.4															
			SD-03 Product Data																
			Qualifications	1.5.2															
			Cast Stone	1.5.2.4	G														
			Cast Stone	1.5.2.5	G														
			Repair Materials	1.2	G														

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		04 03 10	Repair Materials	3.6.1	G														
			SD-04 Samples																
			Mock-ups	1.5.7.2.1	G														
			Cast Stone	1.5.2.4	G														
			Cast Stone	1.5.2.5	G														
			Repair Materials	1.2	G														
			Repair Materials	3.6.1	G														
			SD-06 Test Reports																
			Testing	2.2.5															
			Matching	2.5															
			SD-07 Certificates																
			Repair Materials	1.2															
			Repair Materials	3.6.1															
		04 20 00	SD-02 Shop Drawings																
			Cut CMU	3.3.2.1	G	RO													
			Detail Drawings	3.4.1.1	G														
			Stone and Custom Cast Stone	2.2.1.2	G														
			Cladding Assembly Drawings																
			SD-03 Product Data																
			Hot Weather Procedures	1.5.1	G	RO													
			Cold Weather Procedures	1.5.2	G	AE													
			WARNING: Text in tags exceeds																
			the maximum length of 300																
			characters																
			Cement	2.2.2.2.1	G	RO													
			Cementitious Materials	2.4.1.1	G	RO													

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		04 20 00	Recycled Content of	1.4.3	S	RO												
			Cementitious Materials															
			Insulation	2.6.6	G	RO												
			SD-04 Samples															
			Concrete Masonry Units (CMU)	2.2.2.2	G	RO												
			Custom Cast Stone Units	2.2.4	G	RO												
			Admixtures for Masonry Mortar	2.4.1.4	G	RO												
			Bar Positioners	2.6.2	G	RO												
			Bar Positioners	2.6.2.3	G	RO												
			Joint Reinforcement	2.6.3	G	RO												
			SD-05 Design Data															
			Masonry Compressive Strength	2.1.2	G	RO												
			Fire-Rated Concrete Masonry	2.2.2.3														
			Units															
			Bracing Calculations	3.2.7	G	RO												
			SD-06 Test Reports															
			Fire-Rated Concrete Masonry	2.2.2.3														
			Units															
			Field Testing of Mortar	3.6.1.1														
			Field Testing of Grout	3.6.1.2														
			Prism Tests	3.6.1.3														
			SD-07 Certificates															
			Special Masonry Inspector	1.3.1														
			Qualifications															
			Concrete Masonry Units (CMU)	2.2.2.2														
			Cementitious Materials	2.4.1.1														

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		04 20 00	Admixtures for Masonry Mortar	2.4.1.4															
			Admixtures for Grout	2.4.2.2															
			Bar Positioners	2.6.2															
			Bar Positioners	2.6.2.3															
			Joint Reinforcement	2.6.3															
			Custom Cast Stone Units	2.2.4															
			SD-08 Manufacturer's Instructions																
			Admixtures for Masonry Mortar	2.4.1.4															
			Admixtures for Grout	2.4.2.2															
			SD-10 Operation and Maintenance																
			Data																
			Take-Back Program	3.8															
			SD-11 Closeout Submittals																
			Recycled Content	2.2.2.2.2	S														
		05 12 00	SD-01 Preconstruction Submittals																
			Erection and Erection Bracing	1.4.1.1	G	AE													
			Drawings																
			SD-02 Shop Drawings																
			Fabrication Drawings	1.4.2	G	AE													
			SD-03 Product Data																
			Welding Electrodes and Rods	2.4.1															
			Direct Tension Indicator Washers	2.3.1.1															
			Non-Shrink Grout	2.4.2															
			Tension Control Bolts	2.3.2															
			Recycled Content for Structural	2.2.1	S														
			Steel																

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		05 12 00	Recycled Content for Structural	2.2.2	S														
			Steel Tubing																
			Recycled Content for Steel Pipe	2.2.3	S														
			Environmental Product	2.2.1	S														
			Declaration (EPD) for Steel																
			Environmental Product	2.2.2	S														
			Declaration (EPD) for Steel																
			Environmental Product	2.2.3	S														
			Declaration (EPD) for Steel																
			SD-05 Design Data																
			Design Calculations for Steel	1.4.3	G	AE													
			Connections																
			SD-06 Test Reports																
			Bolts, Nuts, and Washers	2.3															
			Weld Inspection Reports	3.6.1.2															
			Direct Tension Indicator Washer	3.6.2.1															
			Inspection Reports																
			Bolt Testing Reports	3.6.3.1															
			Embrittlement Test Reports	3.6.4															
			SD-07 Certificates																
			Steel	2.2															
			Bolts, Nuts, and Washers	2.3															
			Galvanizing	2.5															
			AISC Structural Steel Fabricator	1.3															
			Quality Certification																

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		05 12 00	AISC Structural Steel Erector	1.3														
			Quality Certification															
			Welding Procedures and	1.4.4.1														
			Qualifications															
			Welding Electrodes and Rods	2.4.1														
			Certified Welding Inspector	3.6.1.1														
			NDT Technician	3.6.1.2														
			Welding Procedure Specifications	3.4														
			(WPS)															
		05 30 00	SD-02 Shop Drawings															
			Fabrication Drawings	1.3.5	G	AE												
			SD-03 Product Data															
			Accessories	2.2														
			Deck Units	2.1														
			Mechanical Fasteners	2.2.11														
			Welding Equipment	1.3.3														
			Welding Rods and Accessories	1.3.3														
			Recycled Content of Steel	2.1	S													
			Products															
			Environmental Product	2.1	S													
			Declaration (EPD) for Steel															
			SD-07 Certificates															
			Powder-Actuated Tool Operator	1.3.2														
			Welder Qualifications	1.3.3														
			Welding Procedures	1.3.3														
			Fire Safety	1.3.4.1														

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		05 30 00	Manufacturer's Certificate	1.3.1														
		05 50 13	SD-02 Shop Drawings															
			Cover Plates and Frames	2.4	G	RO												
			Floor Gratings	2.5	G	RO												
			Bollards/Pipe Guards	2.6	G	RO												
			SD-03 Product Data															
			Cover Plates and Frames	2.4	G	RO												
			Floor Gratings	2.5	G													
			Roof Hatches	2.8	G													
			Floor Doors	2.9	G													
			Recycled Content	2.1	S	RO												
			Certificates of Compliance	2.1	G	RO												
			Certified Mill	2.2	G	RO												
		05 51 00	SD-02 Shop Drawings															
			Iron and Steel Hardware	2.1	G	AE												
			Steel Shapes, Plates, Bars, and Strips	2.1	G	AE												
			Metal Stair System	2.2.1	G	AE												
			SD-03 Product Data															
			Recycled Content for Steel	2.4.1	S													
			Environmental Product Declaration (EPD) for Steel	2.4.1	S													
			Structural-Steel Plates, Shapes, and Bars	2.4.1	G	AE												
			Structural-Steel Tubing	2.4.2	G	AE												

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		05 51 00	Hot-Rolled Carbon Steel Sheets	2.4.5	G	AE												
			and Strips															
			Cold-Finished Steel Bars	2.4.4	G	AE												
			Hot-Rolled Carbon Steel Bars	2.4.3	G	AE												
			Cold-Rolled Carbon Steel Sheets	2.4.6	G	AE												
			Galvanized Carbon Steel Sheets	2.4.7	G	AE												
			Cold-Drawn Steel Tubing	2.4.8	G	AE												
			Concrete Inserts	2.3.3	G	AE												
			Masonry Anchorage Devices	2.3.4	G	AE												
			Steel Pan Stairs	2.2.2	G	AE												
			Steel Stairs	2.3.1	G	AE												
			SD-05 Design Data															
			Member And Connection	1.3.2														
			Calculation															
			SD-07 Certificates															
			Welding Procedures	1.3.1	G	AE												
			Welder Qualification	1.3.1	G	AE												
			Certification Letter from	1.3.3.1	G													
			Contractor's Professional Engineer															
			SD-08 Manufacturer’s Instructions															
			Structural-Steel Plates, Shapes,	2.4.1	G	AE												
			and Bars															
			Structural-Steel Tubing	2.4.2	G	AE												
			Hot-Rolled Carbon Steel Sheets	2.4.5	G	AE												
			and Strips															
			Cold-Finished Steel Bars	2.4.4	G	AE												

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		05 51 00	Hot-Rolled Carbon Steel Bars	2.4.3	G	AE												
			Cold-Rolled Carbon Steel Sheets	2.4.6	G	AE												
			Galvanized Carbon Steel Sheets	2.4.7	G	AE												
			Cold-Drawn Steel Tubing	2.4.8	G	AE												
			Masonry Anchorage Devices	2.3.4	G	AE												
		05 51 33	SD-02 Shop Drawings															
			Ladders	2.3														
			SD-03 Product Data															
			Ladders	2.3														
			Ladder Safety Devices	2.3.2														
			SD-07 Certificates															
			Fabricator Certification for Ladder Assembly	1.3														
			Fabricator Certification for Ships Ladder Assembly	1.3														
		05 52 00	SD-02 Shop Drawings															
			Fabrication Drawings	1.2.1	G	AE												
			Iron and Steel Hardware	3.2	G	AE												
			Steel Shapes, Plates, Bars and Strips	3.2	G	AE												
			SD-03 Product Data															
			Environmental Product Declaration (EPD) for Steel	2.1.2	S													
			Structural-Steel Plates, Shapes, and Bars	2.2.1	G	AE												
			Structural-Steel Tubing	2.2.2	G	AE												

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		05 52 00	Cold-Finished Steel Bars	2.2.4	G	AE													
			Hot-Rolled Carbon Steel Bars	2.2.3	G	AE													
			Cold-Drawn Steel Tubing	2.2.5	G	AE													
			Concrete Inserts	2.2.7	G	AE													
			Masonry Anchorage Devices	2.2.8	G	AE													
			Protective Coating	2.1.3	G	AE													
			Steel Railings and Handrails	2.2.10	G	AE													
			Aluminum Railings and Handrails	2.2.11	G	AE													
			Anchorage and Fastening	1.2.1	G	AE													
			Systems																
			Recycled Content for Steel	2.1.2	S														
			SD-05 Design Data																
			Member And Connection	1.4.3															
			Calculation																
			SD-07 Certificates																
			Welding Procedures	1.4.1	G	AE													
			Welder Qualification	1.4.2	G	AE													
			Certification Letter from	1.4.4.1	G														
			Contractor's Professional Engineer																
			SD-08 Manufacturer’s Instructions																
			Installation Instructions	3.2															
		05 72 00	SD-01 Preconstruction Submittals																
			Existing Conditions	1.3.5	G														
			Pre-Installation Meeting	1.3.7															
			SD-02 Shop Drawings																
			Ornamental Metal Items	2.2	G	AE													

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		05 72 00	Installation Drawings	3.1	G	AE												
			Shop and Field Connections	3.1	G													
			Construction Details	3.1	G													
			SD-03 Product Data															
			Materials	1.3.3	G													
			Materials	1.4	G													
			Ornamental Metal Items	2.2	G													
			Aluminum and stainless steel	1.3.1														
			finishes															
			Grout	2.1.8														
			Aluminum-Alloy Extrusions	2.2.1.1.1														
			Aluminum-Alloy Extrusions	2.2.1.1.1														
			Aluminum-Alloy Castings	2.2.1.1.1														
			SD-04 Samples															
			Manufacturer's Standard Color	1.3.2	G	AE												
			Charts															
			Shop Paint	1.3.2	G													
			Finish Paint	1.3.2	G													
			Anchorage Devices and	1.3.1	G													
			Fasteners															
			section of top rail	2.1.2	G	AE												
			Glass Railing Glass	2.1.6	G	AE												
			fittings	2.1.9														
			fittings	2.1.9														
			brackets	2.1.3	G	AE												
			Glass Railing assembly	3.2.3	G	AE												

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		05 72 00	Metal Wall Cladding	1.3.1	G	AE												
			SD-06 Test Reports															
			Welding Tests	1.3.4	G													
			Glass Railing Product Test Reports	3.3														
			Glass Railing Preconstruction Test Reports	3.3														
			Glass Railing Evaluation Reports	3.3														
			SD-07 Certificates															
			Welding Procedures	1.3.4														
			Ornamental Metal Items	2.2	G													
			Welder Qualifications	1.3.4														
			Mill Certificates	2.1.4														
			Glass Railing Qualification Data	1.3.6														
			Metal Wall Cladding Fabricator and Installer Qualifications	1.3.6														
			SD-08 Manufacturer’s Instructions															
			Protection	3.5														
			Glass Railing Delegated-Design Submittal	1.4														
		06 10 00	SD-02 Shop Drawings															
			Nailing Strips	2.2.1	G													
			SD-03 Product Data															
			Fire-retardant Treatment	1.8														
			SD-07 Certificates															
			Certificates of Grade	1.11.1														

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		06 10 00	Certified Sustainably Harvested	2.1.1	S														
			Virgin Lumber																
			Certified Sustainably Harvested	2.2.1	S														
			Framing Lumber																
			Certified Sustainably Harvested	2.3.1.1	S														
			Plywood for Other Uses																
			Preservative Treatment	1.7															
		06 20 00	SD-02 Shop Drawings																
			Detail Drawings Indicating All	1.3	G	AE													
			Wood Assemblies																
			SD-03 Product Data																
			Wood Products	2.2	G	AE													
			Wood Products	2.2	G	AE													
			Countertops	2.4	G	AE													
			Treated Wood Products	1.4	G	AE													
			Soffits	3.5	G	AE													
			Fascias and Trim	2.3	G	AE													
			Hardware and Accessories	2.8	G	AE													
			Recycled Content for	2.2.8	S														
			MDF/Particleboard																
			SD-04 Samples																
			Samples	1.5	G	AE													
			SD-07 Certificates																
			Certificates of Grade	1.7.1.1	G	AE													
			Certified Sustainably Harvested	2.2.3	S														
			Wood for Trim and Frames																

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		06 20 00	Certified Sustainably Harvested	2.2.5	S													
			Softwood Plywood															
			Certified Sustainably Harvested	2.2.7	S													
			Hardboard															
			Indoor Air Quality for Hardwood	2.2.6	S													
			Plywood															
			Indoor Air Quality for MDF and	2.2.8	S													
			Particleboard															
			Indoor Air Quality for Adhesives	2.9.1.2	S													
		06 41 16.00 10	SD-02 Shop Drawings															
			Shop Drawings	1.5.2	G													
			Shop Drawings	2.10	G													
			Installation	3.1	G													
			SD-03 Product Data															
			Wood Materials	2.1														
			Wood Finishes	2.8														
			Finish Schedule	2.10.7.3														
			Certification	1.5.3	S													
			SD-04 Samples															
			Plastic Laminates	2.3	G													
			Cabinet Hardware	2.5	G													
			SD-07 Certificates															
			Quality Assurance	1.5														
			Laminate Clad Casework	2.8														
			Laminate Clad Casework	3.1														
			SD-11 Closeout Submittals															

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		06 41 16.00 10	LEED Documentation	1.3	S														
		06 61 16	SD-02 Shop Drawings																
			Detail Fabrication Drawings	1.4.2	G	AE													
			Installation	3.1	G	AE													
			SD-03 Product Data																
			Solid Polymer	2.1.1	G	AE													
			Indoor air quality for solid surface	2.2.2	S														
			seam and sealant products																
			SD-04 Samples																
			Material	2.1	G	AE													
			Counter Tops	2.3.5	G														
			Window Sills	1.2	G	AE													
			SD-06 Test Reports																
			Test Report Results	2.1.1															
			SD-07 Certificates																
			Qualifications	1.4.1															
			SD-10 Operation and Maintenance																
			Data																
			Solid Polymer	2.1.1	G	AE													
		07 13 53	SD-03 Product Data																
			Manufacturer's Standard Details	1.3	G														
			Elastomeric Waterproofing Sheet	2.1	G														
			Material																
			Protection Board	2.3	G														
			Primers, Adhesives, and Mastics	1.4	G														
			Primers, Adhesives, and Mastics	2.1	G														

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		07 13 53	SD-06 Test Reports															
			Elastomeric Waterproofing Sheet	2.1	G													
			Material															
			Field Quality Control	3.5	G													
			Protective Covering	3.6	G													
			SD-07 Certificates															
			Elastomeric Waterproofing Sheet	2.1														
			Material															
			Primers, Adhesives, and Mastics	1.4	G													
			Primers, Adhesives, and Mastics	2.1	G													
			Protective Coverings	1.4	G													
			Special Warranties	1.8	G													
			Special Warranties	1.8	G													
			SD-08 Manufacturer’s Instructions															
			Primers, Adhesives, and Mastics	1.4	G													
			Primers, Adhesives, and Mastics	2.1	G													
			SD-11 Closeout Submittals															
			Warranty	1.8.2	G													
		07 14 00	SD-03 Product Data															
			Fluid-Applied Membrane	2.1														
			Membrane Primer	2.2														
			Elastomeric Sheet	2.8														
			Flexible Foam-Backed	2.10														
			Elastomeric Sheet															
			Solvent	3.3														
			Moisture Meter	3.4.1														

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		07 14 00	Protection Board	2.11															
			Bond Breaker	2.7															
			SD-11 Closeout Submittals																
			Warranty	1.6															
			Information Card	3.6															
			Instructions To Government	3.5															
			Personnel																
		07 21 13	SD-03 Product Data																
			Manufacturer's Standard Details	1.3	G	AE													
			Block or Board Insulation	2.1	G	AE													
			Pressure Sensitive Tape	2.2	G														
			Protection Board or Coatings	1.4	G														
			Accessories	2.4	G	AE													
			Recycled Content for Block or	2.1.4	S														
			Board Insulation																
			SD-07 Certificates																
			Block or Board Insulation	2.1	G	AE													
			Protection Board or Coating	2.3	G														
			Special Warranties	1.8	G	AE													
			Special Warranties	1.8	G	AE													
			Indoor Air Quality For Block Or	2.1.5	S														
			Board Insulation																
			Indoor Air Quality for Adhesives	2.4.1	S														
			Energy Star Certificate for	1.5.2	S														
			Extruded Cellular Polystyrene																
			Insulation																

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		07 21 13	SD-08 Manufacturer's Instructions																
			Block or Board Insulation	2.1															
			Adhesive	2.4.1															
		07 21 16	SD-03 Product Data																
			Blanket Insulation	2.1															
			Recycled Content for Insulation	2.1.2	S														
			Materials																
			Pressure Sensitive Tape	2.5															
			Accessories	2.6															
			SD-07 Certificates																
			Indoor Air Quality for Insulation	2.1.4	S														
			Materials																
			Indoor Air Quality for Adhesives	2.6.1	S														
			SD-08 Manufacturer's Instructions																
			Insulation	3.3.1															
		07 22 00	SD-02 Shop Drawings																
			Insulation Board Layout	1.3	G														
			Verification of Existing Conditions	1.3	G														
			SD-03 Product Data																
			Insulation	2.1															
			Cover Board	1.4	G														
			Fasteners	2.5	G														
			Moisture Control	2.4	G														
			Combined Air Barrier and Vapor	2.4.1	G														
			Retarder																

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		07 22 00	Combined Air Barrier and Vapor	2.4.1	G													
			Retarder															
			Recycled Content For Insulation	2.1.2	S													
			SD-06 Test Reports															
			Flame Spread Rating	1.7.1	G													
			SD-07 Certificates															
			Installer Qualifications	1.6	G													
			Certificates Of Compliance For	1.6	G													
			Felt Materials															
			SD-08 Manufacturer’s Instructions															
			Fasteners	2.5	G													
			Insulation	2.1	G													
		07 27 10.00 10	SD-02 Shop Drawings															
			Air Barrier System Shop	2.1	G	RO												
			Drawings															
			SD-03 Product Data															
			Air Barrier System Product Data	2.1	G	RO												
			SD-04 Samples															
			Material Samples For Air Barrier	2.1	G	RO												
			System															
			SD-05 Design Data															
			Design Data And Calculations	1.8	G	RO												
			For The Air Barrier System															
			SD-06 Test Reports															
			Design Review Report	1.8	G	RO												
			Testing and Inspection	3.1.2	G	RO												

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		07 27 10.00 10	SD-07 Certificates																
			Air Barrier Inspector	1.7	G	RO													
		07 27 19.01	SD-01 Preconstruction Submittals																
			Qualifications of Manufacturer	1.7.1	G														
			Qualifications of Installer	1.7.2	G														
			SD-02 Shop Drawings																
			Self-adhering Air Barrier	1.4	G														
			SD-03 Product Data																
			Self-adhering Air Barrier	1.4	G														
			Primers, Adhesives, and Mastics	2.2	G														
			Safety Data Sheets	1.4.1	G														
			SD-04 Samples																
			Self-adhering Air Barrier	1.4	G														
			SD-06 Test Reports																
			Field Peel Adhesion Test	1.6	G														
			Flame Propagation of Wall	1.4.2	G														
			Assemblies																
			Flame Spread and Smoke	1.4.2	G														
			Developed Index Ratings																
			SD-07 Certificates																
			Self-adhering Air Barrier	1.4	G														
			SD-08 Manufacturer’s Instructions																
			Self-adhering Air Barrier	1.4	G														
			Primers, Adhesives, and Mastics	2.2	G														
		07 27 36	SD-01 Preconstruction Submittals																
			Qualification of Manufacturer	1.10.1	G	RO													

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		07 27 36	Qualification of Installer	1.10.2	G	RO												
			Quality Control Plan	1.11	G	RO												
			Safety Plan	1.11	G	RO												
			Fire Prevention Plan	1.9.1	G	RO												
			Respirator Plan	1.9.2	G	RO												
			SD-02 Shop Drawings															
			Spray Foam Air Barrier	1.5														
			Foam Air Barrier System	1.11	G	RO												
			Fire-Rated Assemblies	1.5.1	G	RO												
			SD-03 Product Data															
			Closed Cell	2.1.2	G	RO												
			Transition Membrane	2.2	G	RO												
			Primers, Adhesives, and Mastics	2.3	G	RO												
			Sealants	2.5	G	RO												
			Safety Data Sheets	1.5.2	G	RO												
			Thermal Barrier Materials	2.1.1	G	RO												
			Accessories	2.1.7	G	RO												
			Recycled Content for Closed Cell	2.1.2	S													
			Spray Foam Air Barrier															
			SD-04 Samples															
			Spray Foam Air Barrier	1.5	G	RO												
			SD-06 Test Reports															
			Field Peel Adhesion Test	1.5.4	G	RO												
			Thermographic Test	3.4.5.1	G	RO												
			Air Barrier Test	1.8	G	RO												
			Primers	1.5.3	G	RO												

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		07 27 36	Fire-Ratings Of Thermal Barrier Materials	1.5.4	G	RO												
			Flame Spread And Smoke Developed Index Ratings Of SPF Products	1.5.4	G	RO												
			Flame Propagation Of Wall Assemblies	1.5.4	G	RO												
			Site Inspections	3.4.1	G	RO												
			SD-07 Certificates															
			Closed cell	2.1.2	G	RO												
			Transition Membrane	2.2	G	RO												
			Indoor Air Quality for Spray Foam Air Barrier	2.1.6	S													
			SD-08 Manufacturer’s Instructions															
			SPF Handling, Storage, and Spray Procedures	1.6.1	G	RO												
			Substrate Preparation	3.2.1	G	RO												
			Thermal Barrier	1.5.1	G	RO												
			Transition Membrane	2.2	G	RO												
			Primers, Adhesives, and Mastics	2.3	G	RO												
			SD-09 Manufacturer’s Field Reports															
			Core Samples	1.11														
			Daily Work Record	3.3.3														
			Visual Inspection and Thermal Scanning	3.4.5														

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		07 52 00	SD-02 Shop Drawings																
			Roof Plan	1.4.6	G														
			Field Inspection and Existing	1.4.6															
			Conditions Report																
			SD-03 Product Data																
			Modified Bitumen Sheets	2.2	G														
			Heat Island Reduction	2.1.1	S														
			Cold-Applied Membrane	2.4	G														
			Adhesive																
			Primer	2.6	G														
			Modified Bitumen Roof Cement	2.7	G														
			Pre-Manufactured Accessories	2.10															
			Fasteners And Plates	2.9	G														
			Warranty	1.8	G														
			SD-05 Design Data																
			Wind Uplift Calculations	1.4.5	G														
			SD-07 Certificates																
			Qualification of Manufacturer	1.4.1															
			Qualification of Applicator	1.4.2															
			Qualification of Engineer of	1.4.3															
			Record																
			Wind Uplift Resistance	1.4.5	G														
			Fire Resistance	1.4.4	G														
			SD-08 Manufacturer's Instructions																
			Modified Bitumen Membrane	3.3.5	G														
			Application																

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		07 52 00	Flashing	3.3.6	G													
			Cold Adhesive Applied Modified	3.3.3.1	G													
			Bitumen Membrane															
			Primer	2.6														
			Fasteners	2.9.1														
			Cold Weather Installation	1.6	G													
			SD-11 Closeout Submittals															
			Warranty	1.8														
			Information Card	3.8														
			Instructions To Government	3.7														
			Personnel															
		07 56 00	SD-03 Product Data															
			Construction Grade Caulk	2.2.1														
			Basecoat and Intermediate	2.2.2														
			Coatings															
			Finish Coat	2.2.3														
			Reinforcing Fabric	2.2.5														
			Cant Strips	2.2.7														
			Corrosion Resistant Primer	2.2.8														
			Traffic Coat	3.7														
			Biodegradable Cleaner	2.2.9														
			SD-07 Certificates															
			Manufacturer Qualifications	1.5.1														
			Installer Qualifications	1.5.2														
			Qualification of Inspector	1.5.7														
			SD-08 Manufacturer’s Instructions															

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		07 56 00	Manufacturer's written	1.5.1															
			instructions																
			SD-09 Manufacturer’s Field																
			Reports																
			field tests	3.10															
			Manufacturer's Inspection	3.10.1.1															
			SD-11 Closeout Submittals																
			Information Card	3.11															
		07 60 00	SD-02 Shop Drawings																
			Exposed Sheet Metal	2.2.1	G														
			Gravel Stops and fascia	2.2.1	G														
			Splash Pans	3.1.17	G														
			Flashing for Roof Drains	3.1.15	G														
			Base Flashing	3.1.10	G														
			Counterflashing	3.1.11	G														
			Flashing at Roof Penetrations	3.1.18	G														
			and Equipment Supports																
			Reglets	2.2.10	G														
			Scuppers	3.1.16	G														
			Copings	3.1.20	G														
			Recycled Content	2.1	S														
			SD-03 Product Data																
			Cool Roof	2.2.7	G														
			SD-04 Samples																
			Finish Samples	1.4.2	G														
			SD-08 Manufacturer’s Instructions																

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		07 60 00	Instructions for Installation	1.4.3	G													
			Quality Control Plan	3.5	G													
			SD-10 Operation and Maintenance															
			Data															
			Cleaning and Maintenance	1.4.3	G													
		07 62 13	SD-02 Shop Drawings															
			Sheet Metal	2.1.6														
			SD-03 Product Data															
			Contractor Quality Control	3.11														
			SD-04 Samples															
			Materials	2.1														
		07 81 00	SD-03 Product Data															
			Fireproofing Material	3.3	G	AE												
			SD-04 Samples															
			Spray-Applied Fireproofing	2.1	G	AE												
			SD-06 Test Reports															
			Fire Resistance Rating	1.2.2	G	AE												
			Field Tests	3.6	G	AE												
			Evaluation Reports	1.2.3	G	AE												
			SD-07 Certificates															
			Installer Qualifications	1.4.1	G	AE												
			Surface Preparation Report	3.1	G	AE												
			Manufacturer's Inspection Report	3.5.2	G	AE												
		07 84 00	SD-02 Shop Drawings															
			Firestopping System	2.1	G	AE												
			SD-03 Product Data															

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		07 84 00	Firestopping Materials	2.2	G AE													
			SD-06 Test Reports															
			Inspection	3.3	G													
			SD-07 Certificates															
			Inspector Qualifications	1.5.2														
			Firestopping Materials	2.2														
			Installer Qualifications	1.5.1	G													
			Indoor Air Quality of Materials	2.2.4	S													
		07 92 00	SD-03 Product Data															
			Sealants	2.1	G AE													
			Primers	2.2	G AE													
			Bond Breakers	2.3	G AE													
			Backstops	2.4	G AE													
			Expansion Joints	2.1.3	G AE													
			Field Adhesion	3.1	G AE													
			Compatibility Testing	1.7.5														
			Adhesion Testing	1.7.5	G AE													
			SD-07 Certificates															
			Indoor Air Quality For Interior Sealants	2.1.1	S													
			Indoor Air Quality For Interior Floor Joint Sealants	2.1.3	S													
			Indoor Air Quality For Interior Acoustical Sealants	2.1.4	S													
		08 01 52	SD-02 Shop Drawings															
			Shop Drawings	1.5	G													

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		08 01 52	SD-03 Product Data															
			Hardware	2.4	G													
			Weatherstripping	3.2.10	G													
			Qualifications	1.5	G													
			SD-04 Samples															
			Moldings	3.2.10														
			SD-07 Certificates															
			Indoor Air Quality For	1.7	S													
			Field-Applied Paints And Coatings															
			Indoor Air Quality for	1.7	S													
			Field-applied Adhesives and															
			Sealants															
			SD-11 Closeout Submittals															
			LEED Documentation	1.3														
		08 11 13	SD-02 Shop Drawings															
			Doors	2.1	G													
			Doors	2.1	G													
			Frames	2.5	G													
			Frames	2.5	G													
			Accessories	2.3														
			SD-03 Product Data															
			Doors	2.1	G													
			Recycled Content for Steel Door	2.1	S													
			Product															
			Frames	2.5	G													

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		08 11 13	Recycled Content for Steel Frame Product	2.5	S													
			Accessories	2.3														
		08 11 16	SD-02 Shop Drawings															
			Door and Frame Assembly	1.5.1	G													
			SD-03 Product Data															
			Door and Frame Assembly	1.5.1	G													
			Recycled Content of Aluminum Material	2.5.3	S													
			SD-04 Samples															
			Finish Samples	1.5.2	G													
			SD-05 Design Data															
			Calculations	1.2.1	G													
			Air Infiltration	1.2.2	G													
			Water Penetration	1.2.3	G													
			SD-08 Manufacturer’s Instructions															
			Door and Frame Assembly	1.5.1	G													
			Adjustments, Cleaning, and Maintenance	1.5.3	G													
			NFRC Project Label Certificates for Fenestration	1.2.4	G													
		08 14 00	SD-02 Shop Drawings															
			Doors	2.1	G													
			SD-03 Product Data															
			Doors	2.1	G													
			Recycled Content for Door Cores	2.1.2	S													

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		08 14 00	Accessories	2.2															
			Water-resistant Sealer	2.3.7															
			Warranty	1.5															
			Sound Transmission Class	2.1.3	G														
			Rating																
			Fire Resistance Rating	2.1.4	G														
			SD-04 Samples																
			Doors	2.1															
			Door Finish Colors	2.3.6.2	G														
			SD-06 Test Reports																
			Cycle-Slam	2.4															
			Hinge Loading Resistance	2.4															
			SD-07 Certificates																
			Certificates of Grade	1.3.1															
			Certified Sustainably Harvested	2.1.1.2	S														
			Stile and Rail Wood Doors																
			Certified Sustainably Harvested	2.1.2	S														
			Flush Wood Doors																
			Indoor Air Quality for	2.1.2	S														
			Particleboard and Agrifiber Door																
			Cores																
			SD-11 Closeout Submittals																
			Warranty	1.5															
		08 31 00	SD-02 Shop Drawings																
			Access Doors And Panels	1.3	G	AE													
			SD-03 Product Data																

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		08 31 00	Access Doors And Panels	1.3	G	AE												
			Hardware	1.3.2	G	AE												
			Accessories	2.2.8	G													
			Power Transfer Components	1.3.1	G													
			Recycled Content	2.1	S													
			SD-04 Samples															
			Finishes	2.5	G													
			SD-06 Test Reports															
			Fire-rating(s) of Assemblies	1.3.1	G													
			Acoustical Ratings of Assemblies	1.3.1	G													
		08 41 13	SD-01 Preconstruction Submittals															
			Sample Warranty	1.2.1	G													
			List of Product Installations	1.2.1	G													
			SD-02 Shop Drawings															
			Installation Drawings	3.3	G													
			Fabrication Drawings	2.5	G													
			SD-03 Product Data															
			Manufacturer's Catalog Data	1.2.1	G													
			Finish	2.1.2	G													
			Finish	2.2.3	G													
			Finish	2.3.2	G													
			Finish	2.4.2	G													
			Recycled Content of Aluminum	2.1.1.2	S													
			Material															
			Recycled Content of Aluminum	2.2.1.2	S													
			Material															

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		08 41 13	Recycled Content of Aluminum	2.3.1.2	S													
			Material															
			SD-04 Samples															
			Finish and Color Samples	1.2.1	G													
			SD-06 Test Reports															
			Certified Test Reports	1.2.1	G													
			Deflection	3.4.3														
			Air Infiltration	3.4.1														
			Condensation Resistance and	3.4.4														
			Thermal Transmittance															
			Water Infiltration	3.4.5														
			SD-07 Certificates															
			Indoor Air Quality For Adhesives	1.8.1	S													
			And Sealants															
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Instructions	3.3														
			SD-11 Closeout Submittals															
			Manufacturer's Product Warranty	3.6														
		08 51 13	SD-02 Shop Drawings															
			Windows	2.1	G													
			Fabrication Drawings	1.7														
			SD-03 Product Data															
			Windows	2.1	G													
			Recycled Content of Aluminum	2.1	S													
			Windows															
			Hardware	2.2.10.1	G													

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		08 51 13	Fasteners	2.2.2	G														
			Window Performance	1.8	G														
			Thermal-Barrier Windows	2.3	G														
			Mullions	2.4	G														
			Casing Cover System	2.2.7	G														
			Casing Cover System	2.2.7	G														
			Muntins	2.2.8	G														
			Lead Caming	2.2.9	G														
			Accessories	2.2.10	G														
			Adhesives	2.2.3															
			Thermal Performance	1.8.4	G														
			SD-04 Samples																
			Finish Sample	1.3.3.1															
			Window Sample	1.3.3.2															
			Mock-Ups	1.3.3.3	G														
			SD-05 Design Data																
			Structural Calculations for	2.1	G														
			Deflection																
			Design Analysis	1.3.4	G														
			SD-06 Test Reports																
			Minimum Condensation	1.3.5															
			Resistance Factor																
			Air Infiltration	1.6.2															
			Air Infiltration	1.8.2															
			Water Infiltration	1.6.2															
			Water Infiltration	3.2															

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		08 51 13	SD-10 Operation and Maintenance															
			Data															
			Windows	2.1	G													
			Plastic Identification	1.5														
		08 71 00	SD-02 Shop Drawings															
			Manufacturer's Detail Drawings	1.3	G	RO												
			Verification of Existing Conditions	1.3	G	RO												
			Hardware Schedule	1.5	G	RO												
			Keying System	2.3.5.1	G	RO												
			SD-03 Product Data															
			Hardware Items	2.3	G	RO												
			SD-08 Manufacturer’s Instructions															
			Installation	3.1														
			SD-10 Operation and Maintenance															
			Data															
			Hardware Schedule	1.5	G	RO												
			SD-11 Closeout Submittals															
			Key Bitting	1.6.1	G	RO												
		08 81 00	SD-03 Product Data															
			Insulating Glass	2.3														
			Interior Glazing	2.2.1														
			Glazing Accessories	1.3														
			Sealants	2.4.3.1														
			Joint Backer	2.4.4														
			SD-04 Samples															
			Insulating Glass	2.3														

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		08 81 00	Glazing Compound	2.4.2															
			SD-07 Certificates																
			Indoor Air Quality of Adhesives	2.1	S														
			and Sealants																
			SD-08 Manufacturer’s Instructions																
			Setting and Sealing Materials	2.4															
			Glass Setting	3.2															
			SD-11 Closeout Submittals																
			Insulated Glass Units	1.6.1															
			Monolithic Reflective Glass	1.6.2															
		08 87 23.13	SD-03 Product Data																
			Fragment Retention Film	2.2															
			Cleaning	3.3															
			SD-04 Samples																
			Fragment Retention Film	2.2	G	AE													
			SD-06 Test Reports																
			Fragment Retention Film	2.2															
			SD-07 Certificates																
			Fragment Retention Film	2.2															
		08 91 00	SD-02 Shop Drawings																
			Wall Louvers	1.4	G	AE													
			SD-03 Product Data																
			Metal Wall Louvers	2.2	G	AE													
			SD-04 Samples																
			Wall Louver Samples	1.5	G	AE													
		09 01 90.50	SD-03 Product Data																

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		09 01 90.50	Work Plan	1.2	G														
			Materials	1.2															
			Qualifications	1.4.4															
			SD-07 Certificates																
			Work Plan	1.2															
		09 22 00	SD-02 Shop Drawings																
			Metal Support Systems	2.1	G	RO													
			SD-03 Product Data																
			Metal Support Systems	2.1															
			Recycled Content for Metal	2.1	S														
			Support Systems																
		09 22 36	SD-03 Product Data																
			Lath	2.1															
			Recycled Content for Metal Lath	2.1	S														
			Accessories	2.1.2															
		09 23 00	SD-03 Product Data																
			Gypsum Base Coat Plaster	2.2															
			Gypsum Finish Coat Plaster	2.3															
			SD-04 Samples																
			Sample Panel	1.3.1	G	AE													
			Gypsum Plaster Full Size Sample	1.5	G	AE													
			SD-07 Certificates																
			Indoor Air Quality For Plaster	1.8.2	S														
			SD-08 Manufacturer's Instructions																
			Ready-Mix Gypsum Plaster	2.7															
		09 29 00	SD-03 Product Data																

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		09 29 00	Cementitious Backer Units	2.1.6															
			Glass Mat Water-Resistant	2.1.3															
			Gypsum Tile Backing Board																
			Water-Resistant Gypsum Backing	2.1.2															
			Board																
			Glass Mat Covered or Reinforced	2.1.4															
			Gypsum Sheathing																
			Glass Mat Covered or Reinforced	2.1.4.1															
			Gypsum Sheathing Sealant																
			Accessories	2.1.12															
			Gypsum Board	2.1.1															
			Recycled Content for Gypsum	2.1.1	S														
			Board																
			Recycled Content for Paper	2.1.1	S														
			Facing and Gypsum Cores																
			VOC Content of Joint Compound	2.1.7	S														
			Recycled Content for Sound	2.1.11	S														
			Attenuation Blankets																
			Sound Attenuation Blankets	2.1.11															
			SD-06 Test Reports																
			ASTM E90 Factory Test Report	2.1.5.1	G														
			ASTM E90 Factory Test Report	3.7	G														
			ASTM E90 Factory Test Report	3.10	G														
			ASTM E336 Field Test Report	3.10	G														
			SD-07 Certificates																
			Asbestos Free Materials	2.1	G	RO													

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		09 29 00	Indoor Air Quality for Gypsum	2.1.1	S													
			Board															
			Indoor Air Quality for Adhesives	2.1.9	S													
			Indoor Air Quality for Sound	1.3.1.3	S													
			Attenuation Blankets															
			SD-08 Manufacturer’s Instructions															
			Safety Data Sheets	2.1														
			SD-10 Operation and Maintenance															
			Data															
			Manufacturer Maintenance	2.1														
			Instructions															
		09 30 10	SD-02 Shop Drawings															
			Detail Drawings	3.3	G													
			SD-03 Product Data															
			Porcelain Tile	2.1.1	G													
			Porcelain Tile	2.1.1	G													
			Recycled Content for Porcelain	2.1.1	S													
			Tile															
			Mosaic Tile	2.1.2	G													
			Recycled Content for Mosaic Tile	2.1.2	S													
			Transition Strips	2.1	G													
			Transition Strips	2.6.1	G													
			Metal Strips	2.6.2	G													
			Setting-Bed	2.2	G													
			Mortar, Grout, and Adhesive	2.4	G													
			Cementitious Backer Units	2.5.1	G													

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		09 30 10	Waterproof Membrane	2.7	G													
			Crack Isolation Membrane	2.8	G													
			SD-04 Samples															
			Tile	2.1	G	AE												
			Accessories	2.1	G	AE												
			Transition Strips	2.1	G	AE												
			Transition Strips	2.6.1	G	AE												
			Metal Strips	2.6.2	G													
			Grout	2.4.3	G	AE												
			SD-07 Certificates															
			Indoor Air Quality for Adhesives	2.4	S													
			Indoor Air Quality for Sealants	2.4.5	S													
			Indoor Air Quality for Cementitious Backer Units	1.3.1	S													
			Indoor Air Quality for Mortar and Grout	1.3.1	S													
			Indoor Air Quality for Sealer and Waterproofing Membrane	1.3.1	S													
			Water Absorption Rates	1.3.2														
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Approved Cleaning Instructions	3.12														
			SD-10 Operation and Maintenance															
			Data															
			Porcelain Tile	2.1.1	G													
			Mosaic Tile	2.1.2	G													

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		09 30 10	Transition Strips	2.1	G													
			Transition Strips	2.6.1	G													
			Metal Strips	2.6.2	G													
		09 51 00	SD-02 Shop Drawings															
			Approved Detail Drawings	2.1	G													
			SD-03 Product Data															
			Acoustical Ceiling Systems	2.1	G													
			Metal Ceiling	3.2.1	G													
			Wood Grill Ceiling	2.2.2	G													
			Acoustical Baffle Ceiling	2.2.3	G													
			Recycled Content for Type III	2.2.1.1	S													
			Ceiling Tiles															
			Recycled Content for Suspension	2.3	S													
			Systems															
			Acoustical Performance	2.1.1	G													
			SD-04 Samples															
			Acoustical Units	2.2	G													
			Acoustical Ceiling Tiles	2.2.1.1	G													
			Metal Ceiling	3.2.1	G													
			Wood Grill Ceiling	2.2.2	G													
			Acoustical Baffle Ceiling	2.2.3	G													
			SD-07 Certificates															
			Indoor Air Quality for Type III	2.2.1.1	S													
			Ceiling Tiles															
			Indoor Air Quality for Adhesives	2.6	S													
			Indoor Air Quality for Sealants	2.9	S													

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		09 62 38	SD-03 Product Data																
			Static-Control Resilient Flooring	2.1	G														
			Recycled content for Conductive	2.1.1.1	S														
			Vinyl Tile																
			Accessories	2.3	G														
			Adhesives	2.2	G														
			Warranty	1.9															
			SD-04 Samples																
			Static-Control Resilient Flooring	2.1	G	AE													
			Accessories	2.3	G	AE													
			SD-06 Test Reports																
			Fire Resistance	2.6															
			Moisture, Alkalinity and Bond	3.2															
			Testing	3.6															
			SD-07 Certificates																
			Indoor Air Quality for Conductive	2.1.1.1	S														
			Vinyl Tile																
			Indoor Air Quality for Adhesives	2.2	S														
			Qualifications of Applicator	1.6															
			SD-08 Manufacturer’s Instructions																
			Static-Control Resilient Flooring	2.1	G														
			Accessories	2.3	G														
			SD-10 Operation and Maintenance																
			Data																
			Static-Control Resilient Flooring	2.1	G														
			Accessories	2.3	G														

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		09 65 00	SD-02 Shop Drawings															
			Resilient Flooring and	2.8	G													
			Accessories															
			SD-03 Product Data															
			Resilient Flooring and	2.8	G													
			Accessories															
			Adhesives	2.5														
			Luxury Vinyl Tile	2.2														
			Recycled content for Luxury Vinyl	2.2	S													
			Tile															
			Rubber Tile	2.1														
			Wall Base	2.3														
			Recycled content for Wall Base	2.3	S													
			SD-04 Samples															
			Resilient Flooring and	2.8	G AE													
			Accessories															
			SD-06 Test Reports															
			Moisture, Alkalinity and Bond	3.3	G AE													
			Tests															
			SD-07 Certificates															
			Indoor Air Quality for Rubber Tile	2.1	S													
			Indoor Air Quality for Luxury Vinyl	2.2	S													
			Tile															
			Indoor Air Quality for Wall Base	2.3	S													
			Indoor Air Quality for Adhesives	2.5	S													
			SD-08 Manufacturer’s Instructions															

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		09 65 00	Surface Preparation	3.2	G														
			Installation	3.1	G														
			SD-10 Operation and Maintenance																
			Data																
			Resilient Flooring and	2.8	G														
			Accessories																
		09 66 23	SD-02 Shop Drawings																
			Detail Drawings	1.1	G														
			Strips	2.5	G														
			Control Joint Strips	2.5.2	G														
			SD-03 Product Data																
			Resin Flooring System	2.2															
			Resin Flooring System	2.2.1															
			Recycled Content for Marble	2.4	S														
			Chips																
			Indoor Air Quality for Primer	2.1	S														
			Indoor Air Quality for Resin	2.2	S														
			Indoor Air Quality for Grout	2.6	S														
			Indoor Air Quality for Sealer	2.7	S														
			Mixing, Proportioning, and	3.2															
			Installation																
			Cleaning and Sealing	3.4															
			SD-04 Samples																
			Resinous Terrazzo Flooring	1.1															
			SD-06 Test Reports																
			Certified Test Reports	3.3	G														

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		09 66 23	SD-07 Certificates																
			Qualifications of Installer	1.4	G														
		09 67 23.13	SD-02 Shop Drawings																
			Installation Drawings	2.1	G														
			SD-03 Product Data																
			Manufacturer's Catalog Data	1.2.2	G														
			SD-04 Samples																
			Hardboard Mounted Epoxy	1.5.3	G														
			Flooring																
			Floor Topping	3.1.4	G														
			Mockups	1.5.1	G														
			SD-05 Design Data																
			Design Mix Data	1.2.3	G														
			SD-07 Certificates																
			Listing of Product Installations	1.5.2															
			Referenced Standards	1.5															
			Certificates																
			Indoor Air Quality for Flooring	1.7.1	S														
			System																
			SD-11 Closeout Submittals																
			Warranty	1.6	G														
		09 68 00	SD-02 Shop Drawings																
			Installation Drawings	3.4	G														
			SD-03 Product Data																
			Carpet	2.1	G														
			Recycled Content for Carpeting	2.1.1	S														

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		09 68 00	Indoor Air Quality for Concrete	2.3	S														
			Primer																
			SD-04 Samples																
			Carpet	2.1	G														
			SD-06 Test Reports																
			Moisture and Alkalinity Tests	3.2	G														
			SD-07 Certificates																
			Indoor Air Quality for Carpet	2.1.2	S														
			Indoor Air Quality for Adhesives	2.3	S														
			SD-08 Manufacturer's Instructions																
			Surface Preparation	3.1															
			SD-10 Operation and Maintenance																
			Data																
			Cleaning and Protection	3.5															
			Maintenance Service	3.7.2															
			SD-11 Closeout Submittals																
			Warranty	1.6															
		09 72 00	SD-03 Product Data																
			Wallcoverings and Accessories	2.1	G														
			Primer and Adhesive	2.4															
			Recycled Content for vinyl	2.2	S														
			wallcovering																
			Recycled Content for textile	2.3	S														
			wallcovering																
			SD-04 Samples																
			Wallcoverings and Accessories	2.1	G														

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		09 72 00	SD-07 Certificates																
			Indoor Air Quality	1.3.1	S														
			SD-08 Manufacturer's Instructions																
			Wallcoverings and Accessories	2.1															
			SD-10 Operation and Maintenance																
			Data																
			Wallcoverings and Accessories	2.1	G														
		09 84 20	SD-02 Shop Drawings																
			Approved Detail Drawings	2.2	G														
			SD-03 Product Data																
			Installation	3.2															
			Acoustical Wall Panels	2.2	G														
			Recycled Content for Fabric	2.1.1.1	S														
			Panels																
			SD-04 Samples																
			Acoustical Wall Panels	2.2	G														
			SD-07 Certificates																
			Acoustical Wall Panels	2.2															
			Certified Sustainably Harvested	1.3.1	S														
			Wood																
			Indoor Air Quality for Wall Panels	1.3.2	S														
			SD-11 Closeout Submittals																
			Warranty	1.5															
		09 90 00	SD-02 Shop Drawings																
			Piping Identification	3.12															
			SD-03 Product Data																

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		09 90 00	Coating	2.1	G	AE													
			Sealant	3.3.5															
			Manufacturer's Technical Data	2.1															
			Sheets																
			SD-04 Samples																
			Color	1.11	G	AE													
			SD-07 Certificates																
			Applicator's Qualifications	1.4															
			Qualification Testing	1.5.1.2	G	RO													
			Indoor Air Quality for Paints and	2.1	S														
			Primers																
			Indoor Air Quality for	2.1	S														
			Consolidated Latex Paints																
			SD-08 Manufacturer’s Instructions																
			Application Instructions	3.4.1															
			Mixing	3.8.2															
			Manufacturer's Safety Data	1.8.2															
			Sheets																
			SD-10 Operation and Maintenance																
			Data																
			Coatings	2.1	G	RO													
		09 96 00	SD-01 Preconstruction Submittals																
			Equipment List	1.3	G	RO													
			SD-03 Product Data																
			Epoxy Coatings	2.2.1	G	AE													
			SD-04 Samples																

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		09 96 00	Color Chips	1.3	G	AE												
			SD-07 Certificates															
			Epoxy Coatings	2.2.1	G	RO												
			Indoor Air Quality for Paints and	2.2	S													
			Coatings															
		10 11 00	SD-02 Shop Drawings															
			Placement Schedule	3.1	G													
			SD-03 Product Data															
			Visual Display Unit	1.2	G													
			Visual Display Unit	2.1	G													
			SD-04 Samples															
			Aluminum	2.1.2	G													
			Cork	2.1.1	G													
			Glass	2.1.3	G													
			SD-07 Certificates															
			Indoor air quality for	2.2.1	S													
			markerboards															
			Indoor air quality for tackboards	2.3	S													
			Certificate of Compliance	1.2														
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Cleaning	3.3														
			Instructions															
			Manufacturer's Printed	3.2	G													
			Installation Instructions															
		10 14 00.10	SD-02 Shop Drawings															
			Approved Detail Drawings	3.1	G													

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		10 14 00.10	SD-03 Product Data																
			Installation	3.1															
			Exterior Signage	1.1	G														
			Wind Load Requirements	1.1.1															
			SD-04 Samples																
			Exterior Signage	1.1	G														
			SD-10 Operation and Maintenance																
			Data																
			Protection and Cleaning	3.1.2	G														
		10 14 00.20	SD-02 Shop Drawings																
			Detail Drawings	1.4.2	G	AE													
			Signage Schedule	1.4.2	G	AE													
			SD-03 Product Data																
			Room Identification And	2.1	G	RO													
			Directional Signage System																
			Stair Signage	2.2	G	RO													
			Exit Door Tactile Sign	2.3	G	RO													
			Building Directories	2.4	G	RO													
			SD-04 Samples																
			Interior Signage	1.4.1	G	AE													
			Software	1.3	G	AE													
			Room Identification And	2.1	G	AE													
			Directional Signage System																
			Stair Signage	2.2	G	AE													
			Exit Door Tactile Sign	2.3	G	AE													
			Building Directories	2.4	G	AE													

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		10 14 00.20	SD-10 Operation and Maintenance															
			Data															
			Approved Manufacturer's	3.1	G	RO												
			Instructions															
			Protection and Cleaning	3.1.2	G	RO												
		10 21 13	SD-02 Shop Drawings															
			Fabrication Drawings	2.1														
			Installation Drawings	3.3	G	RO												
			SD-03 Product Data															
			Cleaning and Maintenance	2.1														
			Instructions															
			Sound-Deadening Cores	2.2.2														
			Anchoring Devices and Fasteners	2.2.3														
			Hardware and Fittings	2.2.5														
			Brackets	2.2.4														
			Door Hardware	2.2.6														
			Toilet Enclosures	2.3.1	G	AE												
			Urinal Screens	2.3.2	G	AE												
			Finishes	2.2.5.2	G													
			Recycled content for stainless	2.3	S													
			steel partitions and screens															
			SD-04 Samples															
			Hardware and Fittings	2.2.5														
			Anchoring Devices and Fasteners	2.2.3														
			SD-07 Certificates															
			Warranty	1.6														

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		10 21 13	Indoor air quality	1.3.1	S													
		10 21 23.16	SD-02 Shop Drawings															
			Cubicle track layout	1.3														
			SD-08 Manufacturer's Instructions															
			installation	3.1														
			SD-10 Operation and Maintenance															
			Data															
			Cubicle track system	2.1	G													
		10 26 00	SD-02 Shop Drawings															
			Corner Guards	2.2	G	AE												
			Wall Covering and Panels	2.3	G	AE												
			SD-03 Product Data															
			Corner Guards	2.2	G	AE												
			Wall Covering and Panels	2.3	G	AE												
			Recycled content for aluminum	2.2.1	S													
			component of corner guards															
			Recycled content for steel	2.2.2	S													
			component of corner guards															
			SD-04 Samples															
			Corner Guards	2.2	G													
			Wall Covering and Panels	2.3	G													
			SD-06 Test Reports															
			Fire Resistance Rating	2.1.1.2														
			SD-07 Certificates															
			Indoor air quality for wall	2.3	S													
			covering/panels															

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		10 26 00	Indoor air quality for adhesives	2.6	S													
			SD-10 Operation and Maintenance															
			Data															
			Corner Guards	2.2	G													
			Wall Covering and Panels	2.3	G													
		10 28 13	SD-02 Shop Drawings															
			Product Schedule	2.1	G													
			SD-03 Product Data															
			Recycled content for stainless	2.1	S													
			steel toilet accessories															
			Combination Paper Towel	2.1.3	G													
			Dispenser/Waste Receptacle															
			Item A5090	2.1.4	G													
			Item A5109	2.1.5	G													
			Item A5135	2.1.6	G													
			Item A5150	2.1.7	G													
			Soap Dispenser	2.1.8	G													
			Item A5200	2.1.9	G													
			Toilet Seat Cover Dispenser	2.1.10	G													
			SD-10 Operation and Maintenance															
			Data															
			Combination Paper Towel	2.1.3	G													
			Dispenser/Waste Receptacle															
			Item A5090	2.1.4	G													
			Item A5109	2.1.5	G													
			Item A5135	2.1.6	G													

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		10 28 13	Item A5150	2.1.7	G														
			Soap Dispenser	2.1.8	G														
			Item A5200	2.1.9	G														
			Toilet Seat Cover Dispenser	2.1.10	G														
		10 44 16	SD-02 Shop Drawings																
			Fire Extinguishers	2.1.1	G	AE													
			Accessories	Part 2	G	RO													
			Cabinets	Part 2	G	AE													
			Wall Brackets	2.2.2	G	RO													
			Schedule	1.5	G	RO													
			SD-03 Product Data																
			Fire Extinguishers	2.1.1	G	AE													
			Accessories	Part 2	G	AE													
			Cabinets	Part 2	G	AE													
			Wall Brackets	2.2.2	G	RO													
			Replacement Parts List	3.2.1	G	RO													
			SD-04 Samples																
			Equipment Samples	1.3.1	G	RO													
			SD-07 Certificates																
			Fire Extinguishers Certifications	2.1.1	G	RO													
			Manufacturer's Warranty with	1.4	G	RO													
			Inspection Tag																
		11 05 40	SD-01 Preconstruction Submittals																
			Contractor's Field Verification	1.3	G														
			Data																
			SD-02 Shop Drawings																

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		11 05 40	Installation Instructions and	1.5.1	G													
			Diagrams															
			SD-11 Closeout Submittals															
			Contractor's Warranty for	3.3	G													
			Installation															
		11 06 40.13	SD-02 Shop Drawings															
			Schedule	2.1.2	G													
		11 31 13	SD-03 Product Data															
			Kitchen Equipment	2.1														
			Energy Star Label for Refrigerator	2.1.1	S													
			Energy Star Label for Ice Maker	2.1.2	S													
			SD-08 Manufacturer’s Instructions															
			Kitchen Equipment	2.1														
			SD-10 Operation and Maintenance															
			Data															
			Kitchen Equipment	2.1	G													
			SD-11 Closeout Submittals															
			Contractor's Warranty for	3.3														
			Installation															
		11 41 11	SD-01 Preconstruction Submittals															
			Contractor's Field Verification	1.3	G													
			Data															
			SD-02 Shop Drawings															
			Manufacturer's Detail Drawings	1.5	G													
			Custom Fabricated Equipment	1.5	G													

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		11 41 11	Installation Instructions and	1.5	G														
			Diagrams																
			SD-03 Product Data																
			Refrigerated Food and Drink	1.6.1	G														
			Storage Cases																
			SD-06 Test Reports																
			Field Test Reports	3.2.2	G														
			SD-08 Manufacturer’s Instructions																
			Manufacturer's Instructions	1.6.1															
			SD-11 Closeout Submittals																
			Manufacturer's Warranty	3.3															
			Contractor's Warranty for	3.4															
			Installation																
		11 47 00	SD-01 Preconstruction Submittals																
			Contractor's Field Verification	3.1	G														
			Data																
			SD-02 Shop Drawings																
			Detail Drawings	1.3.1.1	G														
			Custom Fabricated Equipment	1.3.1.1	G														
			Installation Instructions and	1.3.1.1	G														
			Diagrams																
			SD-05 Design Data																
			Manufacturer's Applicable	1.3.1.2	G														
			Literature																
			SD-08 Manufacturer’s Instructions																
			Manufacturer's Instructions	1.3.1.2	G														

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		11 47 00	SD-10 Operation and Maintenance																
			Data																
			Ice Making equipment	1.1	G														
			SD-11 Closeout Submittals																
			Contractor's Warranty for	3.3															
			Installation																
		12 22 00	SD-02 Shop Drawings																
			Drawings	1.4	G														
			SD-03 Product Data																
			Drapery System	1.5															
			SD-04 Samples																
			Drapery Fabric	2.1.1.1	G														
			SD-06 Test Reports																
			Flame Resistance	2.1.1.2															
			SD-07 Certificates																
			Indoor Air Quality for Fabrics	2.1.1	S														
			SD-08 Manufacturer’s Instructions																
			Drapery Hardware	2.1.4															
			Fabrication	2.2.1															
			SD-10 Operation and Maintenance																
			Data																
			Drapery System	1.5	G														
		12 24 13	SD-02 Shop Drawings																
			Detailed Drawings	3.3	G														
			Location Schedule	2.1	G														
			SD-03 Product Data																

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		12 24 13	Window Shades	2.1	G														
			Recycled Content for various	2.1	S														
			fiber components																
			SD-04 Samples																
			Window Shades	2.1	G														
			SD-06 Test Reports																
			Flammability Requirements	1.4.2	G														
			SD-07 Certificates																
			Indoor Air Quality for roller	2.1	S														
			window shades																
			Qualifications	1.4.1.1															
			SD-10 Operation and Maintenance																
			Data																
			Window Shades	2.1	G														
		12 48 13	SD-02 Shop Drawings																
			Installation Drawings	3.2	G														
			Detail Drawings	3.2	G														
			Custom Graphics Drawings	3.2	G														
			SD-03 Product Data																
			Entrance Floor Mats and Frames	2.1.1	G														
			Adhesives and Concrete Primers	2.1.2	G														
			SD-04 Samples																
			Entrance Floor Mats and Frames	2.1.1	G														
			Custom Graphics	2.1.1	G														
			SD-08 Manufacturer’s Instructions																
			Manufacturer's Instructions	3.2															

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		12 48 13	SD-10 Operation and Maintenance																
			Data																
			Protection, Maintenance, and	3.2															
			Repair Information																
		12 50 00.13 10	SD-02 Shop Drawings																
			Installation Drawings	3.3.1	G														
			Grommet, Power and	3.3.1	G														
			Communication Units, and Wire																
			Management Locations																
			SD-03 Product Data																
			Product Data	2.3	G														
			Product Style Options	2.3	G														
			SD-04 Samples																
			Fabric and Finishes	2.3.5	G														
			SD-07 Certificates																
			Authorized Dealer	1.6	G														
			Certified Furniture Installers	1.6	G														
			Licensed Electrician	1.6	G														
			Certified Telecommunications	1.6	G														
			Installer																
			Manufacturer's Certification	2.3	G														
			Warranty	1.8	G														
			SD-10 Operation and Maintenance																
			Data																
			Furniture, Data Package 1	3.5	G														
			SD-11 Closeout Submittals																

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		12 50 00.13 10	Energy Efficient Equipment	2.1.1	S													
			Reduced VOC's for Furniture	2.1.2	S													
			Recycled Content of Furniture	2.1.3	S													
			Bio-Based Content of Furniture	2.1.4	S													
		12 59 00	SD-02 Shop Drawings															
			Detail Drawings	1.4.4	G													
			SD-03 Product Data															
			Warranty	1.6	G													
			Workstations	2.2.1														
			Power and Communications	2.11														
			Communications	2.11.7														
			Recycled Content for system	2.1	S													
			furniture components															
			Energy Star Label for Task	2.11.6	S													
			Lighting															
			SD-04 Samples															
			Workstations	2.2.1	G													
			Samples	2.2.2														
			SD-06 Test Reports															
			Selected Components	2.2.4.1	G													
			Panel Acoustics	2.2.4.2	G													
			Fire Safety	1.4.2	G													
			Electrical System	1.4.3	G													
			SD-07 Certificates															
			Workstations	2.2.1														

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		12 59 00	SD-10 Operation and Maintenance															
			Data															
			Assembly Manuals	2.3.1	G													
			Maintenance Manuals	3.2	G													
			Cleaning	3.2	G													
			Electrical System	1.4.3	G													
			Maintenance Agreements	1.7														
			Installation	3.1	G													
		14 21 23	SD-02 Shop Drawings															
			Elevator	2.1	G													
			Elevator Components	1.2.1	G													
			Elevator Components	1.2.2	G													
			Elevator Machine	1.2.1	G													
			Elevator Controller	1.2.1	G													
			Wiring Diagrams	1.3.4	G													
			SD-03 Product Data															
			Elevator	2.1														
			Elevator Components	1.2.1														
			Elevator Components	1.2.2														
			Data Sheets	1.2.2														
			Elevator Microprocessor	2.5.2	G													
			Controller															
			SD-05 Design Data															
			Emergency Power Systems	1.2.3.3														
			Heat Loads	1.2.3.2														
			Reaction Loads	1.2.3.1														

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		14 21 23	SD-07 Certificates																
			Price Lists	1.3.2	G														
			Warranty	1.4															
			Endorsement Letter	1.3.1.1															
			Welders' Qualifications	1.2.4															
			Elevator Controller Certification	2.5.2.3	G														
			SD-10 Operation and Maintenance																
			Data																
			Elevator	2.1	G														
			Maintenance Control Program	1.2.5	G														
			(MCP)																
			Software and Documentation	2.5.2.2	G														
		21 13 13	SD-01 Preconstruction Submittals																
			Qualified Fire Protection Engineer	1.2.3	G	RO													
			(QFPE)																
			Sprinkler System Designer	1.4.2.1	G	RO													
			Sprinkler System Installer	1.4.2.2	G	RO													
			SD-02 Shop Drawings																
			Shop Drawing	1.2.1.1	G	RO													
			SD-03 Product Data																
			Pipe	2.2.1	G	RO													
			Fittings	2.3.1.2	G	RO													
			Valves	2.3.4	G	RO													
			Sprinklers	2.6	G	RO													
			Pipe Hangers and Supports	2.3.3	G	RO													
			Sprinkler Alarm Switch	2.4.1	G	RO													

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		21 13 13	Valve Supervisory (Tamper)	2.4.2	G	RO												
			Switch															
			Fire Department Connection	2.5	G	RO												
			Air Vent	2.7.5	G	RO												
			Hose Valve	2.3.4.3	G	RO												
			Seismic Bracing	2.3.3	G	RO												
			Nameplates	2.1.2	G	RO												
			SD-05 Design Data															
			Seismic Bracing	2.3.3	G	RO												
			Hydraulic Calculations	1.2.1.2	G	RO												
			SD-06 Test Reports															
			Test Procedures	3.7.1	G	RO												
			SD-07 Certificates															
			Verification of Compliant	3.7.2.1	G													
			Installation															
			Request for Government Final	3.7.2.2	G													
			Test															
			SD-10 Operation and Maintenance															
			Data															
			Operating and Maintenance	3.9	G													
			(O&M) Instructions															
			Spare Parts	1.6	G	RO												
			SD-11 Closeout Submittals															
			As-built drawings	3.9														
		22 00 00	SD-02 Shop Drawings															
			Plumbing System	3.9.1	G	AE												

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		22 00 00	SD-03 Product Data															
			Recycled Content for Steel Pipe	2.2.1	S													
			Recycled Content for Cast Iron	2.2.1	S													
			Pipe															
			Fixtures	2.5	S													
			Flush Valve Water Closets	2.5.3	G	AE												
			WaterSense Label for Flush	2.5.3	S													
			Valve Water Closet															
			Flush Valve Urinals	2.5.4	G	AE												
			WaterSense Label for Urinal	2.5.4	S													
			Countertop Lavatories	2.5.6	G	AE												
			Water flow rate for Lavatory	2.5.1	S													
			Faucet															
			Kitchen Sinks	2.5.7	G	AE												
			Mother Room Sink	2.5.8														
			Energy Star Label for Wheelchair	2.5.9	S													
			Electric Water Cooler															
			Water Heaters	2.9	G	AE												
			Pumps	2.11	G	AE												
			Backflow Prevention Assemblies	3.9.1.1	G	AE												
			Welding	1.5.1														
			Vibration-Absorbing Features	3.4	G	AE												
			Plumbing System	3.9.1														
			SD-06 Test Reports															
			Tests, Flushing and Disinfection	3.9														

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		22 00 00	Test of Backflow Prevention	3.9.1.1	G	AE												
			Assemblies															
			SD-07 Certificates															
			Materials and Equipment	1.3														
			Bolts	2.2.1														
			SD-10 Operation and Maintenance															
			Data															
			Plumbing System	3.9.1	G	AE												
		22 13 29	SD-02 Shop Drawings															
			Equipment Installation	3.2	G	AE												
			SD-03 Product Data															
			Materials and Equipment	2.1	G	AE												
			Framed Instructions	3.4	G	RO												
			Spare Parts	1.4	G	RO												
			SD-06 Test Reports															
			Field Testing and Adjusting	3.5	G	RO												
			Equipment															
			SD-10 Operation and Maintenance															
			Data															
			Operating and Maintenance	3.7	G	AE												
			Manuals															
		23 05 15	SD-01 Preconstruction Submittals															
			Material, Equipment, and Fixture	1.2														
			Lists															
			SD-02 Shop Drawings															
			Record Drawings	1.2														

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		23 05 15	Connection Diagrams	1.2														
			Coordination Drawings	1.2														
			Fabrication Drawings	1.2														
			Installation Drawings	3.1														
			Water Temperature Mixing Valve	2.4.6	G	RO												
			Water Temperature Regulating	2.4.7	G	RO												
			Valves															
			Water Pressure Reducing Valve	2.4.8	G	RO												
			Pressure Relief Valve	2.4.9	G	RO												
			Combination Pressure and	2.4.10	G	RO												
			Temperature Relief Valves															
			SD-03 Product Data															
			Pipe and Fittings	2.2														
			Piping Specialties	2.3														
			Valves	2.4														
			Miscellaneous Materials	2.6														
			Supporting Elements	2.7														
			Equipment Foundation Data	1.2														
			Water Temperature Mixing Valve	2.4.6	G	RO												
			Water Temperature Regulating	2.4.7	G	RO												
			Valves															
			Water Pressure Reducing Valve	2.4.8	G	RO												
			Pressure Relief Valve	2.4.9	G	RO												
			Combination Pressure and	2.4.10	G	RO												
			Temperature Relief Valves															
			SD-05 Design Data															

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		23 05 15	Pipe and Fittings	2.2														
			Piping Specialties	2.3														
			Valves	2.4														
			SD-06 Test Reports															
			Hydrostatic Tests	3.1														
			Air Tests	3.1	G	RO												
			Valve-Operating Tests	3.1	G	RO												
			Drainage Tests	3.1	G	RO												
			Pneumatic Tests	3.1	G	RO												
			Non-Destructive Electric Tests	3.1	G	RO												
			System Operation Tests	3.1														
			SD-07 Certificates															
			Record of Satisfactory Field Operation	1.4.2														
			List of Qualified Permanent Service Organizations	1.4.3														
			Listing of Product Installations	1.2														
			Records of Existing Conditions	1.2	G	RO												
			Surface Resistance	3.1	G	RO												
			Shear and Tensile Strengths	3.1	G	RO												
			Temperature Ratings	3.1	G	RO												
			Bending Tests	3.1	G	RO												
			Flattening Tests	3.1	G	RO												
			Transverse Guided Weld Bend Tests	3.1	G	RO												

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		23 05 15	SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.15															
			Manuals																
		23 05 48.19	SD-02 Shop Drawings																
			Coupling and Bracing	3.1	G	RO													
			Flexible Couplings or Joints	3.2	G	RO													
			Equipment Restraint	2.2	G	RO													
			Contractor Designed Bracing	1.2.2	G	RO													
			SD-03 Product Data																
			Coupling and Bracing	3.1	G	RO													
			Flexible Couplings Or Joints	3.2	G	RO													
			Equipment Restraint	2.2	G	RO													
			Contractor Designed Bracing	1.2.2	G	RO													
			Anchor Bolts	3.7	G	RO													
			Vibration Isolators	2.2.2	G	RO													
			SD-05 Design Data																
			Design Calculations	1.2.2	G	RO													
			SD-06 Test Reports																
			Anchor Bolts	3.7	G	RO													
		23 05 93	SD-01 Preconstruction Submittals																
			Records of Existing Conditions	1.4	G	AE													
			Independent TAB Agency and	1.6.1	G	AE													
			Personnel Qualifications																
			TAB Design Review Report	1.7.2.1	G	AE													
			TAB Firm	1.6.3.1	G	AE													

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		23 05 93	TAB Team Assistants	1.3	G	AE												
			TAB Team Engineer	1.3	G	AE												
			TAB Specialist	1.6.3.2	G	AE												
			TAB Team Field Leader	1.3	G	AE												
			SD-02 Shop Drawings															
			TAB Schematic Drawings and	1.4.4	G	AE												
			Report Forms															
			SD-03 Product Data															
			Equipment and Performance	1.4	G	AE												
			Data															
			TAB Related HVAC Submittals	1.6.3.4	G	AE												
			TAB Procedures	1.6.2	G	AE												
			Calibration	1.6.2	G	AE												
			Systems Readiness Check	1.4.4	G	AEO												
			TAB Execution	1.6.4	G	AE												
			TAB Verification	1.6.4.3	G	AE												
			SD-06 Test Reports															
			Completed Pre-Final DALT	3.3.5	G	AE												
			Report															
			Certified Final DALT Report	3.3.8	G	AE												
			TAB Design Review Report	1.7.2.1	G	AE												
			TAB Report for Season 1	1.6.5.2	G	AE												
			TAB Report for Season 2	1.6.5.2	G	AE												
			SD-07 Certificates															
			Independent TAB Agency and	1.6.1	G	AEO												
			Personnel Qualifications															

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		23 05 93	DALT and TAB Submittal and	1.7.2	G	AE													
			Work Schedule																
			TAB Pre-Field Engineering	1.7.2.3	G	AE													
			Report																
			TAB Firm	1.6.3.1	G	AE													
			Design Review Report	1.4.4	G	AEO													
			Pre-field DALT Preliminary	1.7.2.2	G														
			Notification																
			Advanced Notice for Season 1	1.7.2	G	AE													
			TAB Field Work																
			Prerequisite HVAC Work Check	1.7.2	G	AE													
			Out List For Season 1																
			Advanced Notice for Season 2	1.7.2	G														
			TAB Field Work																
			Prerequisite HVAC Work Check	1.7.2	G	AE													
			Out List For Season 2																
		23 07 00	SD-02 Shop Drawings																
			MICA Plates	3.2.2.4	G	RO													
			Pipe Insulation Systems	2.3	G	RO													
			Pipe Insulation Systems	3.2	G	RO													
			Duct Insulation Systems	3.3	G	RO													
			Equipment Insulation Systems	3.4	G	RO													
			Recycled content for insulation	2.3.1	S														
			materials																
			SD-03 Product Data																
			Pipe Insulation Systems	2.3	G	RO													

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ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAG # RAPH	CLASSIFICATION	GOVT OR A/E REVWR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION			APPROVING AUTHORITY					MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)		(q)	(r)
		23 07 00	Pipe Insulation Systems	3.2	G	RO													
			Duct Insulation Systems	3.3	G	RO													
			Equipment Insulation Systems	3.4	G	RO													
			SD-07 Certificates																
			Indoor air quality for adhesives	2.2.1	S														
			SD-08 Manufacturer’s Instructions																
			Pipe Insulation Systems	2.3	G	RO													
			Pipe Insulation Systems	3.2	G	RO													
			Duct Insulation Systems	3.3	G	RO													
			Equipment Insulation Systems	3.4	G	RO													
		23 09 00	SD-02 Shop Drawings																
			DDC Contractor Design Drawings	3.3	G	RO	A												
			Draft As-Built Drawings	3.3	G	RO													
			Final As-Built Drawings	3.3	G	RO													
			SD-03 Product Data																
			Certificate of Networthiness	1.8.6	G	RO													
			Documentation																
			Programming Software	1.8.1	G	RO													
			Controller Application Programs	1.8.2	G	RO													
			Configuration Software	1.8.1	G	RO													
			Manufacturer's Product Data	2.2	G	RO													
			Niagara Framework Supervisory	1.8.4	G	RO													
			Gateway Backups																
			Niagara Framework Engineering	1.8.5	G														
			Tool																
			Niagara Framework Wizards	1.8.3	G														

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		23 09 00	SD-06 Test Reports															
			Existing Conditions Report	3.1.1														
			Start-Up Testing Report	3.5.2	G	RO												
			PVT Procedures	3.6.1	G	RO												
			PVT Report	3.6.3	G	RO												
			Pre-Construction Quality Control (QC) Checklist	1.9.1	G	RO												
			Post-Construction Quality Control (QC) Checklist	1.9.2	G	RO												
			SD-10 Operation and Maintenance Data															
			Operation and Maintenance (O&M) Instructions	3.7	G	RO												
			Training Documentation	3.9.1	G	RO												
			SD-11 Closeout Submittals															
			Enclosure Keys	2.5	G	RO												
			Password Summary Report	3.2.6.1	G	RO												
			Closeout Quality Control (QC) Checklist	1.9.3	G	RO												
		23 21 23	SD-02 Shop Drawings															
			System Coordination	2.1.2	G	RO												
			SD-03 Product Data															
			Instructions	2.2.2	G	RO												
			Equipment Data	2.2.5	G	RO												
			Training Period	3.5.2	G	RO												
			SD-06 Test Reports															

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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)		(q)	(r)
		23 21 23	Factory Tests	2.8															
			Field Quality Control	3.3															
			SD-07 Certificates																
			Manufacturer's Representative	1.4.1															
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.5.1	G	RO													
			Manuals																
			Training	3.5.2	G	RO													
		23 30 00	SD-02 Shop Drawings																
			Detail Drawings	1.5.4	G	RO													
			SD-03 Product Data																
			Insulated Nonmetallic Flexible	2.8.1.1															
			Duct Runouts																
			Duct Connectors	2.8.1.1															
			Duct Access Doors	2.8.2	G	RO													
			Fire Dampers	2.8.3	G	RO													
			Manual Balancing Dampers	2.8.4	G	RO													
			Automatic Smoke-Fire Dampers	2.8.6	G	RO													
			Sound Attenuation Equipment	2.8.7	G	RO													
			Diffusers	2.8.8.1	G	RO													
			Registers and Grilles	2.8.8.2	G	RO													
			Louvers	2.8.9	G	RO													
			Air Vents, Penthouses, and	2.8.10	G	RO													
			Goosenecks																
			Centrifugal Fans	2.9.1.1	G	RO													

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		23 30 00	In-Line Centrifugal Fans	2.9.1.2	G	RO												
			Air Handling Units	2.10	G	RO												
			Room Fan-Coil Units	2.11.1	G	RO												
			Coil Induction Units	2.11.2	G	RO												
			Constant Volume, Single Duct	2.11.3.1	G	RO												
			Terminal Units															
			Variable Volume, Single Duct	2.11.3.2	G	RO												
			Terminal Units															
			Reheat Units	2.11.3.3	G	RO												
			Energy Recovery Devices	2.12	G	RO												
			Test Procedures	1.5.5														
			Diagrams	1.2.1.2	G	RO												
			Indoor Air Quality for Duct	2.8.1	S													
			Sealants															
			Indoor Air Quality for Filter Media	2.9.3	S													
			SD-06 Test Reports															
			Performance Tests	3.13	G	RO												
			Damper Acceptance Test	3.11	G	RO												
			SD-07 Certificates															
			Ozone Depleting Substances	1.5.3														
			Technician Certification															
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Installation	3.2	G	RO												
			Instructions															
			Operation and Maintenance	3.15.2	G	RO												
			Training															

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		23 30 00	SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.15.1	G	RO												
			Manuals															
			Fire Dampers	2.8.3	G	RO												
			Manual Balancing Dampers	2.8.4	G	RO												
			Automatic Smoke-Fire Dampers	2.8.6	G	RO												
			Centrifugal Fans	2.9.1.1	G	RO												
			In-Line Centrifugal Fans	2.9.1.2	G	RO												
			Air Handling Units	2.10	G	RO												
			Room Fan-Coil Units	2.11.1	G	RO												
			Coil Induction Units	2.11.2	G	RO												
			Constant Volume, Single Duct	2.11.3.1	G	RO												
			Terminal Units															
			Variable Volume, Single Duct	2.11.3.2	G	RO												
			Terminal Units															
			Reheat Units	2.11.3.3	G	RO												
			Energy Recovery Devices	2.12	G	RO												
			SD-11 Closeout Submittals															
			Indoor Air Quality During	3.14	S													
			Construction															
		23 57 10.00 10	SD-02 Shop Drawings															
			Heating System	2.15	G	AE												
			SD-03 Product Data															
			Spare Parts	1.5	G	AE												
			Welding	3.4	G	AE												

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		23 57 10.00 10	Framed Instructions	3.22	G	AE												
			Convectors	2.13														
			Convectors	3.16														
			Air Separator	2.7	G	AE												
			Expansion Tank	2.6	G	AE												
			Steam Traps	2.8	G	AE												
			Steam Traps	3.14	G	AE												
			Unit Heaters	2.14	G	AE												
			Unit Heaters	3.17	G	AE												
			Heat Exchangers	2.9	G	AE												
			Heat Exchangers	3.15	G	AE												
			SD-06 Test Reports															
			Testing and Cleaning	3.21	G	AE												
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.23	G	AE												
			Manuals															
		23 81 23	SD-03 Product Data															
			Computer Room Air Conditioner	2.1	G	RO												
			Small Computer Room Air	2.2	G	RO												
			Conditioners															
			Space Temperature Control	2.5.3	G	RO												
			System Drawings															
			Filters	2.1.5														
			Leak Detection	2.3.1.3	G	RO												
			SD-06 Test Reports															

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		23 81 23	Manufacturer's Factory Test	2.8.1	G	RO												
			Plans															
			Factory Test Reports	2.8.4	G	RO												
			Field Test Schedule	3.3.2	G	RO												
			Manufacturer's Field Test Plans	3.3.1	G	RO												
			Field Test Reports	3.3.6	G	RO												
			SD-07 Certificates															
			Credentials of the Manufacturer's	3.3.3	G	RO												
			Field Test Representative															
			Certified List Of Qualified	1.5.3														
			Permanent Service Organizations															
			SD-08 Manufacturer’s Instructions															
			Installation Manual for Each Type	3.1.2														
			of CRAC															
			SD-10 Operation and Maintenance															
			Data															
			Computer Room Air Conditioner	3.1.3	G	RO												
			Operation and Maintenance Data															
			SD-11 Closeout Submittals															
			Indoor Air Quality During	3.2	S													
			Construction															
		25 05 11.21	SD-01 Preconstruction Submittals															
			Wireless Communication	1.4.1	G													
			Request															
			Device Account Lock Exception	1.4.1	G													
			Request															

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		25 05 11.21	Contractor Computer	1.9.1.4	G													
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.9.5	G													
			Cybersecurity Compliance															
			Statements															
			Cybersecurity Subject Matter	1.6.1	G													
			Expert Qualifications															
			SD-02 Shop Drawings															
			Network Communication Report	1.7.1	G													
			Cybersecurity Riser Diagram	1.7.3	G													
			Control System Inventory Report	1.7.2	G													
			SD-03 Product Data															
			Control System Cybersecurity	1.7.4	G													
			Documentation															
			SD-06 Test Reports															
			Wireless Communication Test	1.4.1	G													
			Report															
			SD-07 Certificates															
			Software Licenses	1.8	G													
			SD-11 Closeout Submittals															
			Password Summary Report	3.4.1.2.2	G													
			Device Audit Record Upload	1.4.1	G													
			Software															
		25 05 11.23	SD-01 Preconstruction Submittals															

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		25 05 11.23	Device Account Lock Exception	3.1.2.2	G													
			Request															
			Multiple IP Connection Device	3.9	G													
			Request															
			Contractor Computer	1.10.1.4	G													
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.10.5	G													
			Cybersecurity Compliance															
			Statements															
			Cybersecurity Subject Matter	1.7.1	G RO													
			Expert Qualifications															
			SD-02 Shop Drawings															
			User Interface Banner Schedule	3.1.3.1	G													
			Network Communication Report	1.8.2	G													
			Cybersecurity Riser Diagram	1.8.5	G													
			Control System Inventory Report	1.8.3	G													
			Cybersecurity Interconnection	1.8.1	G													
			Schedule															
			SD-03 Product Data															
			Control System Cybersecurity	1.8.6	G													
			Documentation															
			SD-07 Certificates															
			Software Licenses	1.9	G													
			SD-11 Closeout Submittals															
			Password Summary Report	3.5.2.2.5	G													

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		25 05 11.23	Software Recovery And	1.8.4	G													
			Reconstitution Images															
			Device Audit Record Upload	3.2.2.1	G													
			Software															
			Completed Security Technical	3.11.1	G RO													
			Implementation Guides Checklist															
			Completed NESSUS/ACAS Scan	3.11.2	G RO													
			Results															
		25 05 11.26	SD-01 Preconstruction Submittals															
			Device Account Lock Exception	3.1.2.2	G													
			Request															
			Multiple IP Connection Device	3.9	G													
			Request															
			Contractor Computer	1.10.1.4	G													
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.10.6	G													
			Cybersecurity Compliance															
			Statements															
			Cybersecurity Subject Matter	1.7.1	G													
			Expert Qualifications															
			SD-02 Shop Drawings															
			User Interface Banner Schedule	3.1.3.1	G													
			Network Communication Report	1.8.2	G													
			Cybersecurity Riser Diagram	1.8.5	G													
			Control System Inventory Report	1.8.3	G													

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		25 05 11.26	Cybersecurity Interconnection Schedule	1.8.1	G													
			SD-03 Product Data															
			Control System Cybersecurity Documentation	1.8.6	G													
			SD-07 Certificates															
			Software Licenses	1.9	G													
			SD-11 Closeout Submittals															
			Password Summary Report	3.5.2.2.5	G													
			Software Recovery And Reconstitution Images	1.8.4	G													
			Device Audit Record Upload Software	3.2.2.1	G													
			Completed Security Technical Implementation Guides Checklist	3.11.1	G													
			Completed NESSUS/ACAS Scan Results	3.11.2	G													
		25 08 10	SD-01 Preconstruction Submittals															
			Factory Test	3.4	G RO													
			SD-06 Test Reports															
			UMCS and Building Level DDC Testing Sequence	3.1	G RO													
			Performance Verification Test	3.6	G RO													
			Endurance Testing	3.7	G RO													
		25 10 10	SD-02 Shop Drawings															

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		25 10 10	UMCS Contractor Design	3.2.1															
			Drawings																
			Draft As-Built Drawings	3.2.2															
			Final As-Built Drawings	3.2.2															
			SD-03 Product Data																
			Product Data Sheets	2.1.5															
			SD-06 Test Reports																
			Pre-Construction QC Checklist	1.6															
			Post-Construction QC Checklist	1.6															
			Existing Conditions Report	3.1															
			Start-Up and Start-Up Testing	3.6	G	RO													
			Report																
			PVT Phase I Procedures	3.7.1															
			PVT Phase I Report	3.7.2	G	RO													
			PVT Phase II Report	3.7.3	G	RO													
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	1.7															
			(O&M) Instructions																
			Basic Training Documentation	3.9.1															
			Advanced Training	3.9.1															
			Documentation																
			SD-11 Closeout Submittals																
			Closeout QC Checklist	1.6															
		26 08 00	SD-06 Test Reports																
			Acceptance tests and inspections	3.1	G														

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		26 08 00	SD-07 Certificates																
			Qualifications	1.4.1															
			Acceptance test and inspections	1.4.3															
			procedure																
		26 20 00	SD-02 Shop Drawings																
			Panelboards	2.11	G														
			Transformers	2.12	G														
			Marking Strips	3.1.8.1	G														
			SD-03 Product Data																
			Receptacles	2.10	G														
			Circuit Breakers	2.11.3	G														
			Switches	2.9	G														
			Transformers	2.12	G														
			Motor Controllers	2.14	G														
			Grounding Busbar	2.18.3	G														
			Surge Protective Devices	2.23	G														
			SD-06 Test Reports																
			600-volt Wiring Test	3.5.2	G														
			Grounding System Test	3.5.5	G														
			Transformer Tests	3.5.3	G														
			Ground-fault Receptacle Test	3.5.4	G														
			SD-09 Manufacturer’s Field																
			Reports																
			Transformer Factory Tests	2.25.1															
		26 24 13	SD-02 Shop Drawings																
			Switchboard Drawings	1.5.2	G														

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		26 24 13	SD-03 Product Data																
			Switchboard	2.2	G														
			SD-06 Test Reports																
			Switchboard Design Tests	2.5.1	G														
			Switchboard Production Tests	2.5.2	G														
			Acceptance Checks and Tests	3.4.1	G														
			SD-10 Operation and Maintenance																
			Data																
			Switchboard Operation and	1.6.1	G														
			Maintenance																
			SD-11 Closeout Submittals																
			Assembled Operation and	1.6.2	G														
			Maintenance Manuals																
			Service Entrance Available Fault	2.8	G														
			Current Label																
		26 27 14.00 20	SD-02 Shop Drawings																
			Installation Drawings	1.4.1	G														
			SD-03 Product Data																
			Electricity meters	2.1.3	G														
			Current transformer	2.1.2	G														
			communications	2.2	G														
			Interfacing Software	3.1.1	G														
			SD-06 Test Reports																
			Acceptance checks and tests	3.2.1	G														
			System functional verification	3.2.2	G														
			Meter configuration report	3.2.1	G														

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		26 27 14.00 20	SD-10 Operation and Maintenance																
			Data																
			Electricity Meters and	1.5.1	G														
			Accessories																
			SD-11 Closeout Submittals																
			System functional verification	3.2.2	G														
		26 28 01.00 10	SD-03 Product Data																
			Fault Current Analysis	2.4	G														
			Arc Flash Analysis	2.4.6	G														
			Arc Flash Analysis	2.4.6	G														
			Protective Device Coordination	2.4	G														
			Study																
			Equipment	1.4															
			System Coordinator	1.3.1															
			Installation	3.2															
			SD-06 Test Reports																
			Field Testing	3.3															
			SD-07 Certificates																
			Devices and Equipment	2.1															
			Devices and Equipment	2.2															
			Devices and Equipment	3.2															
		26 29 23	SD-02 Shop Drawings																
			Schematic Diagrams	1.5.1	G														
			SD-03 Product Data																
			Adjustable Speed Drives	2.1	G														
			Wires and Cables	2.3															

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		26 29 23	Equipment Schedule	1.5.2															
			SD-06 Test Reports																
			ASD Test	3.3.1															
			Performance Verification Tests	3.3.2															
			Endurance Test	3.3.3															
			SD-08 Manufacturer’s Instructions																
			Installation instructions	1.5.3															
			SD-09 Manufacturer’s Field																
			Reports																
			ASD Test Plan	2.5.1	G														
			Standard Products	1.5.4															
			SD-10 Operation and Maintenance																
			Data																
			Adjustable Speed Drives	2.1															
		26 41 00	SD-02 Shop Drawings																
			Overall lightning protection	1.4.1.1	G														
			system																
			Each major component	1.4.1.2	G														
			SD-06 Test Reports																
			Lightning Protection and	1.4.3	G														
			Grounding System Test Plan																
			Lightning Protection and	3.4.1	G														
			Grounding System Test																
			SD-07 Certificates																
			Lightning Protection System	1.2.3	G														
			Installers Documentation																

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		26 41 00	Component UL Listed and	1.4.2	G													
			Labeled															
			Lightning protection system	1.4.4	G													
			inspection certificate															
			Roof manufacturer's warranty	3.1.1	G													
		26 51 00	SD-02 Shop Drawings															
			Luminaire Drawings	1.5.1	G													
			Occupancy/Vacancy Sensor	1.5.8	G													
			Coverage Layout															
			Lighting Control System One-Line	1.7.2	G													
			Diagram															
			Sequence of Operation for	2.5.1	G													
			Lighting Control System															
			SD-03 Product Data															
			Luminaires	2.2	G													
			Light Sources	2.3	G													
			LED Drivers	2.4	G													
			Luminaire Warranty	1.6.1	G													
			Lighting Controls Warranty	1.6.2	G													
			Local Area Controller	2.5.1.1.1	G													
			Lighting Control Panel	2.5.1.2.1	G													
			Switches	2.5.2.1	G													
			Wall Box Dimmers	2.5.2.2	G													
			Scene Wallstations	2.5.2.3	G													
			Occupancy/Vacancy Sensors	2.5.2.4	G													
			Photosensors	2.5.2.5	G													

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		26 51 00	Time Clocks	2.5.1.2.1	G													
			Power Packs	2.5.2.4.5	G													
			Exit Signs	2.6.1	G													
			SD-05 Design Data															
			Luminaire Design Data	1.5.2	G													
			SD-06 Test Reports															
			IES LM-79 Test Report	1.5.3	G													
			IES LM-80 Test Report	1.5.4	G													
			IES TM-21 Test Report	1.5.5	G													
			IES TM-30 Test Report	1.5.6	G													
			Occupancy/Vacancy Sensor	3.2.1.1	G													
			Verification Test															
			Photosensor Verification Test	3.2.1.1	G													
			SD-07 Certificates															
			LED Driver and Dimming Switch	1.5.7	G													
			Compatibility Certificate															
			SD-10 Operation and Maintenance															
			Data															
			Lighting System	1.7.1	G													
			Lighting Control System	1.7.2	G													
			Maintenance Staff Training Plan	3.3.2.1	G													
			End-User Training Plan	3.3.2.2	G													
		26 56 00	SD-02 Shop Drawings															
			Luminaire Drawings	1.5.1.1	G													
			Control System One-Line	1.7.2	G													
			Diagram															

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		26 56 00	Sequence of Operation for	2.5.1	G														
			Exterior Lighting Control System																
			SD-03 Product Data																
			Luminaires	2.2	G														
			Light Sources	2.3	G														
			LED Drivers	2.4	G														
			Luminaire Warranty	1.6.1	G														
			Lighting Controls Warranty	1.6.2	G														
			Photosensors	2.5.2.2	G														
			Time Clock	2.5.2.1	G														
			Lighting Contactor	2.5.2.3	G														
			SD-05 Design Data																
			Luminaire Design Data	1.5.2	G														
			SD-06 Test Reports																
			IES LM-79 Test Report	1.5.3	G														
			IES LM-80 Test Report	1.5.4	G														
			IES TM-21 Test Report	1.5.5	G														
			SD-10 Operation and Maintenance																
			Data																
			Lighting System	1.7.1	G														
			Exterior Lighting Control System	1.7.2	G														
			Maintenance Staff Training Plan	3.3.1.1	G														
			End-User Training Plan	3.3.1.2	G														
		27 05 14.00 10	SD-02 Shop Drawings																
			DAS Distribution System	1.2															
			Installation	3.1	G														

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		27 05 14.00 10	SD-03 Product Data																
			Spare Parts	1.7															
			Test Plan	3.4	G														
			Qualifications	1.4															
			SD-06 Test Reports																
			Testing	3.4															
			SD-07 Certificates																
			Materials and Equipment	2.1															
			SD-08 Manufacturer’s Instructions																
			Manufacturer's	3.1.2															
			Recommendations																
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.5	G														
			Manuals																
		27 05 28.36 40	SD-02 Shop Drawings																
			Fabrication Drawings	2.2	G														
			Installation Drawings	3.1.2	G														
			SD-03 Product Data																
			Cable Trays	1.2.1	G	AE													
			Supports	1.2.1	G														
			SD-08 Manufacturer’s Instructions																
			Manufacturer's Instructions	3.1.1															
		27 10 00	SD-02 Shop Drawings																
			Telecommunications drawings	1.6.1.1	G														

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		27 10 00	Telecommunications Space	1.6.1.2	G													
			Drawings															
			SD-03 Product Data															
			Telecommunications cabling	2.3	G													
			Patch panels	2.4.5	G													
			Telecommunications	2.5	G													
			outlet/connector assemblies															
			Equipment support frame	2.4.2	G													
			Connector blocks	2.4.3	G													
			Spare Parts	1.10.3	G													
			SD-06 Test Reports															
			Telecommunications cabling	3.5.1	G													
			testing															
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													
			Key Personnel	1.6.2.2	G													
			Manufacturer Qualifications	1.6.2.3	G													
			Test plan	1.6.3	G													
			SD-09 Manufacturer's Field															
			Reports															
			Factory reel tests	2.10.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Telecommunications cabling and	1.10.1	G													
			pathway system															
			SD-11 Closeout Submittals															

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		27 10 00	Record Documentation	1.10.2	G													
		27 53 19.13	SD-01 Preconstruction Submittals															
			Qualifications	1.7.3	G	RO												
			SD-02 Shop Drawings															
			System Description	1.6	G	RO												
			System Layout	1.2.1	G	RO												
			Detail Drawings	1.7.2.1	G	RO												
			Coordination Drawings	1.7.2.2	G	RO												
			SD-03 Product Data															
			Material and Equipment	2.1	G	RO												
			Uninterruptible Power Supply	2.9	G	RO												
			Warranty	1.10	G	RO												
			SD-05 Design Data															
			Design Analysis and Calculations	1.6.8	G	RO												
			SD-06 Test Reports															
			Acceptance Test Plan	3.8.1	G	RO												
			Acceptance Test Procedure	3.8.5.2	G	RO												
			Acceptance Test Report	3.8.7	G	RO												
			SD-07 Certificates															
			Accreditation	1.7.1	G	RO												
			Certificates of Compliance	3.8.5.1	G	RO												
			SD-08 Manufacturer's Instructions															
			Installation	3.4	G	RO												
			SD-10 Operation and Maintenance															
			Data															

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		27 53 19.13	Operation and Maintenance	1.11.1	G	RO												
			Manuals															
			Training Plan	3.9.1	G	RO												
			SD-11 Closeout Submittals															
			As-built System Drawings	3.8.5.1	G	RO												
			Closeout Documentation	3.9.10	G	RO												
		28 08 10	SD-05 Design Data															
			Test Plan	3.1	G	RO												
			SD-06 Test Reports															
			Draft Test Report	3.2.2														
			Final Test Report	3.4	G	RO												
			SD-07 Certificates															
			Qualifications	1.4.1														
		28 10 05	SD-02 Shop Drawings															
			ESS Components	1.3.3.1	G	RO												
			Overall System Schematic	1.3.3.2	G	RO												
			SD-03 Product Data															
			Access Control Unit	2.3.4	G	RO												
			Access Control Devices	2.3.5	G	RO												
			Communications Interface	2.6	G	RO												
			Devices															
			Uninterruptible Power Supply	2.7.1	G	RO												
			(UPS)															
			Component Enclosure	2.9	G	RO												
			Equipment Rack	2.10	G	RO												
			SD-05 Design Data															

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		28 10 05	Backup Battery Capacity	1.5.1	G	RO													
			Calculations																
			Throughput Rates	2.3.2	G	RO													
			SD-07 Certificates																
			Contractor Qualifications	1.3.4.1	G	RO													
			Instructor Qualifications	1.3.4.2	G	RO													
			Data Encryption	2.6.3	G	RO													
			SD-10 Operation and Maintenance																
			Data																
			Training Plan	3.6.1	G	RO													
			Training Content	3.6	G	RO													
			ESS Components	1.3.3.1	G	RO													
			ESS Software	1.6	G	RO													
			SD-11 Closeout Submittals																
			As-Built Drawings	1.7	G	RO													
		28 31 76	SD-01 Preconstruction Submittals																
			Qualified Fire Protection Engineer	1.3.2	G	AE													
			(QFPE)																
			Fire alarm system designer	1.8.2.1	G	AE													
			Supervisor	1.8.2.2	G	AE													
			Technician	1.8.2.3	G	AE													
			Installer	1.8.2.4	G	AE													
			Test Technician	1.8.2.5	G	AE													
			Fire Alarm System Site-Specific	1.7	G	AE													
			Software Acknowledgement																
			SD-02 Shop Drawings																

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ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAG # RAPH	CLASSIFICATION	GOVT OR A/E REVWR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION			APPROVING AUTHORITY					MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		28 31 76	Nameplates	1.8.1.3	G	AE												
			Instructions	2.2.4	G	AE												
			Wiring Diagrams	1.8.1.4	G	AE												
			System Layout	1.8.1.5	G	AE												
			Notification Appliances	1.8.1.6	G	AE												
			Initiating devices	1.8.1.7	G	AE												
			Amplifiers	1.8.1.8	G	AE												
			Battery Power	1.8.1.9	G	AE												
			Voltage Drop Calculations	1.8.1.10	G	AE												
			SD-03 Product Data															
			Fire Alarm and Mass Notification	2.3	G	AE												
			Control Unit (FMCU)															
			Local Operating Console (LOC)	1.4.4	G	AE												
			Amplifiers	1.8.1.8	G	AE												
			Tone Generators	2.5	G	AE												
			Digitalized voice generators	2.5	G	AE												
			LCD Annunciator	2.6.1	G	AE												
			Manual Stations	2.7	G	AE												
			Smoke Detectors	2.8	G	AE												
			Duct Smoke Detectors	2.8.2	G	AE												
			Heat Detectors	2.9	G													
			Addressable Interface Devices	2.10	G	AE												
			Addressable Control Modules	2.11	G	AE												
			Notification Appliances	1.8.1.6	G	AE												
			Batteries	2.14.1	G	AE												
			Battery Chargers	2.14.2	G	AE												

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		28 31 76	Supplemental Notification	2.14.1.1	G	AE												
			Appliance Circuit Panels															
			Auxiliary Power Supply Panels	2.14.1.1	G	AE												
			Surge Protective Devices	2.15	G	AE												
			Alarm Wiring	2.15	G	AE												
			Back Boxes and Conduit	3.3.4	G	AE												
			Ceiling Bridges	3.2.9	G													
			Terminal Cabinets	3.3.2	G	AE												
			Automatic Fire Alarm	2.18	G													
			Transmitters															
			Radio Transmitter and Interface	2.18.1	G	AE												
			Panels															
			Electromagnetic Door Holders	2.19.2	G													
			SD-06 Test Reports															
			Test Procedures	3.6.1	G	AE												
			SD-07 Certificates															
			Verification of Compliant	3.6.2.1	G	AE												
			Installation															
			Request for Government Final	3.6.2.2	G	AE												
			Test															
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.8	G	AE												
			(O&M) Instructions															
			Instruction of Government	3.9	G	AE												
			Employees															

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		28 31 76	SD-11 Closeout Submittals																
			As-Built Drawings	1.8.1.13															
			Spare Parts	1.10.1															
		31 00 00	SD-01 Preconstruction Submittals																
			Shoring	3.3	G	DO													
			Dewatering Work Plan	1.3.3	G	DO													
			SD-03 Product Data																
			Utilization of Excavated Materials	3.7	G	RO													
			Rock Excavation	1.3.1.2															
			SD-06 Test Reports																
			Testing	3.14															
			Borrow Site Testing	2.1															
			SD-07 Certificates																
			Testing	3.14															
		31 05 19	SD-03 Product Data																
			Thread	2.1.2															
			Manufacturing Quality Control	2.2															
			Sampling and Testing																
			SD-04 Samples																
			Quality Assurance Samples and	3.1															
			Tests																
			SD-07 Certificates																
			Geotextile	2.1.1															
		32 05 33	SD-01 Preconstruction Submittals																
			Integrated Pest Management	2.4	G														
			Plan																

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		32 05 33	SD-03 Product Data																
			Fertilizer	2.1	G														
			Mulches Topdressing	2.3															
			Organic Mulch Materials	2.3.1															
			SD-07 Certificates																
			Maintenance Inspection Report	3.4.1															
			Plant Quantities	3.4.2	G														
			SD-10 Operation and Maintenance																
			Data																
			Maintenance	3.1															
			SD-11 Closeout Submittals																
			Tree Staking and Guying	3.4.3															
			Removal																
		32 11 23	SD-03 Product Data																
			Plant, Equipment, and Tools	1.4	G	RO													
			SD-06 Test Reports																
			Initial Tests	2.3.1	G	RO													
			In-Place Tests	3.11.1	G	RO													
		32 12 13	SD-03 Product Data																
			Local/Regional Materials	2.2.2															
			SD-06 Test Reports																
			Sampling and Testing	3.7															
		32 12 16.16	SD-03 Product Data																
			Diamond Grinding Plan	2.1.4	G	RO													
			Mix Design	2.4	G	RO													
			Contractor Quality Control	3.1	G	RO													

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		32 12 16.16	SD-06 Test Reports																
			Aggregates	2.2	G	RO													
			QC Monitoring	3.1.1.7															
			SD-07 Certificates																
			Asphalt Cement Binder	2.3	G	RO													
		32 16 19	SD-03 Product Data																
			Concrete	2.1															
			Biodegradable Form Release Agent	2.6.4															
			Biodegradable Form Release Agent	3.2															
			SD-06 Test Reports																
			Field Quality Control	3.7															
		32 17 23	SD-03 Product Data																
			Surface Preparation Equipment List	2.1.1.1	G	RO													
			Application Equipment List	2.1.2	G	RO													
			Exterior Surface Preparation	3.2															
			Safety Data Sheets	1.3.1	G	RO													
			Waterborne Paint	2.2.1	G	RO													
			Thermoplastic compound	2.2.2	G	RO													
			Thermoplastic compound	3.3.2	G	RO													
			SD-06 Test Reports																
			Waterborne Paint	2.2.1	G	RO													
			Thermoplastic Compound	2.2.2	G	RO													
			Thermoplastic Compound	3.3.2	G	RO													

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		32 17 23	Test Reports	3.4.1														
			SD-07 Certificates															
			Qualifications	1.3.2	G	RO												
			Waterborne Paint	2.2.1														
			Volatile Organic Compound	1.3.1	G	RO												
			Thermoplastic Compound	2.2.2														
			Thermoplastic Compound	3.3.2														
			SD-08 Manufacturer’s Instructions															
			Waterborne Paint	2.2.1	G	RO												
			Thermoplastic Compound	2.2.2	G	RO												
			Thermoplastic Compound	3.3.2	G	RO												
		32 92 19	SD-03 Product Data															
			Wood Cellulose Fiber Mulch	2.5.3														
			Fertilizer	2.4														
			SD-06 Test Reports															
			Topsoil Composition Tests	2.2.3														
			SD-07 Certificates															
			Seed	2.1														
			SD-08 Manufacturer’s Instructions															
			Erosion Control Materials	2.7														
		32 92 23	SD-03 Product Data															
			Fertilizer	2.4	G	RO												
			SD-06 Test Reports															
			Topsoil composition tests	2.2.3	G	RO												
			SD-07 Certificates															
			sods	2.1	G	RO												

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		32 93 00	SD-01 Preconstruction Submittals																
			State Landscape Contractor's License	1.4.3															
			Time Restrictions and Planting Conditions	1.6															
			SD-03 Product Data																
			Peat	2.3.5															
			Composted Derivatives	2.3.8															
			Rotted Manure	2.3.11															
			Organic Mulch Materials	2.6.1															
			Gypsum	2.3.9															
			Mulch	2.6	G														
			Ground Stakes	2.7.1.2															
			Fertilizer	2.5															
			Root Control Barrier	2.10	G														
			Staking Material	2.7.1															
			Metal Anchors	2.7.7															
			Antidesiccants	2.8															
			Erosion Control Materials	2.9															
			Photographs	1.4.4	G														
			SD-04 Samples																
			Mulch	2.6	G														
			SD-06 Test Reports																
			Topsoil Composition Tests	2.2.4															
			Percolation Test	1.4.5															
			SD-07 Certificates																

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		32 93 00	Nursery Certifications	2.1.1															
			SD-10 Operation and Maintenance																
			Data																
			Plastic Identification	1.8															
		33 40 00	SD-02 Shop Drawings																
			Precast Reinforced Concrete	2.3.5	G	RO													
			Manholes																
			Precast Reinforced Concrete	2.2.1	G	RO													
			Storm Inlets and Structures																
			Frames, Covers, and Grates	2.3.6	G	RO													
			SD-03 Product Data																
			Precast Reinforced Concrete	2.3.5															
			Manholes																
			Precast Reinforced Concrete	2.2.1															
			Storm Inlets and Structures																
			Frames, Covers, and Grates	2.3.6															
			SD-06 Test Reports																
			Deflection Testing	3.9.1.3															
			Deflection Testing	3.9.3.2															
			SD-07 Certificates																
			Resin Certification	2.1.1															
			Resin Certification	2.1.2															
			Oil Resistant Gasket	2.3.7.1															
			Leakage Test	3.9.3.1															
			Hydrostatic Test on Watertight	3.9.1.1															
			Joints																

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		33 40 00	Determination of Density	3.9.1.2														
			Frames, Covers, and Grates	2.3.6														
			Post-Installation Inspection	3.9.2.1.2														
			Report															
			SD-11 Closeout Submittals															
			As-Built Drawings	1.4	G	RO												
		33 71 02	SD-02 Shop Drawings															
			Precast underground structures	1.4.1	G													
			SD-03 Product Data															
			Precast concrete structures	2.10.2.1	G													
			Sealing Material	2.10.2.4														
			Pulling-In Irons	3.5.3														
			Manhole frames and covers	2.10.3	G													
			Handhole frames and covers	2.10.4	G													
			Composite/fiberglass handholes	2.10.6	G													
			Protective Devices and	2.13	G													
			Coordination															
			SD-06 Test Reports															
			Field Acceptance Checks and	3.16.1														
			Tests															
			Cable Installation Plan and	3.3	G													
			Procedure															
			SD-07 Certificates															
			Cable Installer Qualifications	1.4.2	G													
		33 82 00	SD-02 Shop Drawings															

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		33 82 00	Telecommunications Outside	1.6.1.1	G													
			Plant															
			Telecommunications Entrance	1.6.1.2	G													
			Facility Drawings															
			SD-03 Product Data															
			Wire and cable	2.7	G													
			Cable splices, and connectors	2.4	G													
			Closures	2.3	G													
			Building protector assemblies	2.2.1	G													
			Protector modules	2.2.2	G													
			Spare Parts	1.8.2	G													
			SD-06 Test Reports															
			Pre-installation tests	3.5.1	G													
			Acceptance tests	3.5.2	G													
			Outside Plant Test Plan	1.6.3	G													
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													
			Key Personnel	1.6.2.2	G													
			Manufacturer's Qualifications	1.6.2.3	G													
			SD-08 Manufacturer’s Instructions															
			Building protector assembly	2.2.1	G													
			installation															
			Cable tensions	3.1.8.1	G													
			Fiber Optic Splices	3.1.9.2	G													
			SD-09 Manufacturer’s Field															
			Reports															

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		33 82 00	Factory Reel Test Data	2.12.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Telecommunications outside	1.6.1.1	G													
			plant (OSP)															
			SD-11 Closeout Submittals															
			Record Documentation	1.8.1	G													

APPENDIX

Eng Form 4025-R

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TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE For use of this form, see ER 415-1-10; the proponent agency is CECW-CE.	DATE	TRANSMITTAL NO.

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (*This section will be initiated by the contractor*)

TO:	FROM:	CONTRACT NO.	CHECK ONE: ☐ THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL _____

SPECIFICATION SEC. NO. (*Cover only one section with each transmittal*)	PROJECT TITLE AND LOCATION	THIS TRANSMITTAL IS FOR: (*Check one*) ☐ FIO ☐ GA ☐ DA ☐ CR ☐ DA/CR ☐ DA/GA

ITEM NO. (*See Note 3*) a.	DESCRIPTION OF SUBMITTAL ITEM (*Type size, model number/etc.*) b.	SUBMITTAL TYPE CODE (*See Note 8*) c.	NO. OF COPIES d.	CONTRACT DOCUMENT REFERENCE		CONTRACTOR REVIEW CODE g.	VARIATION Enter "Y" if requesting a variation (*See Note 6*) h.	USACE ACTION CODE (*Note 9*) i.
				SPEC. PARA. NO. e.	DRAWING SHEET NO. f.			

REMARKS	I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.	
	NAME OF CONTRACTOR	SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (*List by item No.*)	NAME AND TITLE OF APPROVING AUTHORITY	SIGNATURE OF APPROVING AUTHORITY	DATE

INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.

2. Each Transmittal shall be numbered consecutively. The Transmittal Number typically includes two parts separated by a dash (-). The first part is the specification section number. The second part is a sequential number for the submittals under that spec section. If the Transmittal is a resubmittal, then add a decimal point to the end of the original Transmittal Number and begin numbering the resubmittal packages sequentially after the decimal.

3. The "Item No." for each entry on this form will be the same "Item No." as indicated on ENG FORM 4288-R.

4. Submittals requiring expeditious handling will be submitted on a separate ENG Form 4025-R.

5. Items transmitted on each transmittal form will be from the same specification section. Do not combine submittal information from different specification sections in a single transmittal.

6. If the data submitted are intentionally in variance with the contract requirements, indicate a variation in column h, and enter a statement in the Remarks block describing he detailed reason for the variation.

7. ENG Form 4025-R is self-transmitting - a letter of transmittal is not required.

8. When submittal items are transmitted, indicate the "Submittal Type" (*SD-01 through SD-11*) in column c of Section I.
   Submittal types are the following:
   SD-01 - Preconstruction SD-02 - Shop Drawings SD-03 - Product Data SD-04 - Samples SD-05 - Design Data SD-06 - Test Reports
   SD-07 - Certificates SD-08 - Manufacturer's Instructions SD-09 - Manufacturer's Field Reports SD-10 - O&M Data SD-11 - Closeout

9. For each submittal item, the Contractor will assign Submittal Action Codes in column g of Section I. The U.S. Army Corps of Engineers approving authority will assign Submittal Action Codes in column i of Section I. The Submittal Action Codes are:

   A -- Approved as submitted.
   B -- Approved, except as noted on drawings. Resubmission not required.
   C -- Approved, except as noted on drawings. Refer to attached comments. Resubmission required.
   D -- Will be returned by separate correspondence.
   E -- Disapproved. Refer to attached comments.
   F -- Receipt acknowledged.
   X -- Receipt acknowledged, does not comply with contract requirements, as noted.
   G -- Other action required *(Specify)*
   K -- Government concurs with intermediate design. (*For D-B contracts*)
   R -- Design submittal is acceptable for release for construction. (*For D-B contracts*)

10. Approval of items does not relieve the contractor from complying with all the requirements of the contract.

SECTION 01 32 01.00 10

PROJECT SCHEDULE
02/15

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AACE INTERNATIONAL (AACE)

AACE 29R-03	(2011) Forensic Schedule Analysis
AACE 52R-06	(2006) Time Impact Analysis - As Applied in Construction

U.S. ARMY CORPS OF ENGINEERS (USACE)

ER 1-1-11	(1995) Administration -- Progress, Schedules, and Network Analysis Systems

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Project Scheduler Qualifications; G, RO

Preliminary Project Schedule; G, RO

Initial Project Schedule; G, RO

Periodic Schedule Update; G, RO

Narrative Report; G, RO

1.3 PROJECT SCHEDULER QUALIFICATIONS

Designate an authorized representative to be responsible for the preparation of the schedule and all required updating and production of reports. The authorized representative must have a minimum of 2-years experience scheduling construction projects similar in size and nature to this project with scheduling software that meets the requirements of this specification. Representative must have a comprehensive knowledge of CPM scheduling principles and application.

The scheduler must have a comprehensive knowledge of CPM scheduling, principles, application, and obtain the skill/knowledge on following and adhering to this Contract, specification and drawing. The Designated Project Scheduler must have prepared and maintained at least five previous construction schedules of similar size and complexity to this Contract, utilizing the most recent version of Oracle Primavera P6.

During the entire Contract duration, the Government will require the Project Scheduler to be present at the project site office/trailers as often as needed to maintain and provide the Government with a fully completed status-to-date schedule.

PART 2 PRODUCTS

2.1 SOFTWARE

The scheduling software utilized to produce and update the schedules required herein must be capable of meeting all requirements of this specification.

2.1.1 Government Default Software

The Government intends to use Primavera P6.

2.1.2 Contractor Software

Scheduling software used by the Contractor must be commercially available from the software vendor for purchase with vendor software support agreements available. The software routine used to create the required sdef file must be created and supported by the software manufacturer.

2.1.2.1 Primavera

If Primavera P6 is selected for use, provide the "xer" export file in a version of P6 importable by the Government system.

2.1.2.2 Other Than Primavera

If the Contractor chooses software other than Primavera P6, that is compliant with this specification, provide for the Government's use two licenses, two computers, and training for two Government employees in the use of the software. These computers will be stand-alone and not connected to Government network. Computers and licenses will be returned at project completion.

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

The Contractor is prohibited from beginning Mobilization, Demolition, Excavation and Construction prior to the Government approval of a complete Preliminary and/or Initial Schedules.

Prepare for approval a Project Schedule, as specified herein, pursuant to FAR Clause 52.236-15 Schedules for Construction Contracts. Show in the schedule the proposed sequence to perform the work and dates contemplated for starting and completing all schedule activities. The scheduling of the entire project is required. The scheduling of construction is the responsibility of the Contractor. Contractor management personnel must

actively participate in its development. Subcontractors and suppliers working on the project must also contribute in developing and maintaining an accurate Project Schedule. Provide a schedule that is a forward planning as well as a project monitoring tool. Use the Critical Path Method (CPM) of network calculation to generate all Project Schedules. Prepare each Project Schedule using the Precedence Diagram Method (PDM).

3.2 Approved Project Schedule

Use the approved Project Schedule to measure the progress of the work and to aid in evaluating time extensions, and to provide the basis of all progress payments. Make the schedule cost loaded and activity coded. The schedule will provide the basis for all progress payments. If the Contractor fails to submit any schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule.

3.3 Schedule Status Reports

Provide a Schedule Status Report on at least a monthly basis. If, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor must take steps necessary to improve its progress including those that may be required by the Contracting Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.

3.4 Default Terms

Failure of the Contractor to comply with the requirements of the Contracting Officer will be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of the contract.

3.5 BASIS FOR PAYMENT AND COST LOADING

The schedule is the basis for determining contract earnings during each update period and therefore the amount of each progress payment. The aggregate value of all activities coded to a contract CLIN must equal the value of the CLIN.

3.5.1 Activity Cost Loading

Activity cost loading must be reasonable and without front-end loading. Provide additional documentation to demonstrate reasonableness if requested by the Contracting Officer. The value of commissioning and testing WBS section may not be less than 10 percent of the total costs for all mechanical, electrical and plumbing procurement and construction activities. Field Overhead costs may be evenly dispersed to each activity over the duration of the project. During schedule development, the Contracting Officer may require all overhead costs be broken out and billed against a percentage of the construction completion percentage. Evenly disperse overhead costs and profit to each activity over the

duration of the project. It is the discretion of the Government of which activates are to be cost loaded and if field overhead is to be broken out separately.

When directed by the Government, Contractor must reallocate activity cost appropriately with out without Contractor documentation.

3.5.2 Layout Activity Cost Loading

"Layout" activities will have zero cost. ("Layouts" have been captured on project drawings and paid by the Government at the completion of Design.)

3.5.3 Schematic Diagram/Drawing Activity Cost Loading

"Schematic Diagram/Drawing" activities will have zero cost. ("Schematic Diagram/Drawing" are supplied by the manufacturer and paid at the Government verification of material delivery and or install.)

3.5.4 Cost Loading of Submittal

"Submittal" Activities will have zero cost. Government does not allow cost loading of submittals. Cost loading of submittals is prohibited.

3.5.5 Mobilization and Demobilization Cost

Under a separate WBS for each Mobilization and Demobilization include detail activities with reasonable cost. Front-end loading is prohibited. Provide the Government with detail documentation and cost of Mobilization and Demobilization, prior to submitting a Preliminary Schedule.

3.5.6 Cost Loading of Commissioning Activities

The value of all "Government Approval Received of Test Reports…." activities of commissioning systems are not be less than 10 percent of the total costs for all procurement and construction activities of each commissioned system (Total Commissioned System Cost). Work performed on Testing, Checklist, Reports, Plans, Procedures, Manual's type activities are paid once "Government Approval Received" of the final document, only if cost are applicable and cost loading is approved by the Contracting Officer.

The activity(ies) for "Government Approval Received Final Commissioning Report" shall be valued at no less than half of the retained money referenced in the above paragraph. The remaining balance of the 10% shall be spread across any other"Government Approval Received..." activities for preliminary Commissioning testing reports (TAB, DALT, Start Up Testing, etc).

3.5.7 Withholdings / Payment Rejection

Failure to meet the requirements of this specification may result in the disapproval of the preliminary, initial or periodic schedule updates and subsequent rejection of payment requests until compliance is met.

In the event that the Contracting Officer directs schedule revisions and those revisions have not been included in subsequent Project Schedule revisions or updates, the Contracting Officer may withhold 10 percent of

pay request amount from each payment period until such revisions to the project schedule have been made.

3.6 PROJECT SCHEDULE DETAILED REQUIREMENTS

3.6.1 Level of Detail Required

Develop the Project Schedule to the appropriate level of detail to address major milestones and to allow for satisfactory project planning and execution. Failure to develop the Project Schedule to an appropriate level of detail will result in its disapproval. The Contracting Officer will consider, but is not limited to, the following characteristics and requirements to determine appropriate level of detail:

3.6.2 Activity Durations

Reasonable activity durations are those that allow the progress of ongoing activities to be accurately determined between update periods. Less than 2 percent of all non-procurement activities may have Original Durations (OD) greater than 20 work days or 30 calendar days.

3.6.3 Procurement Activities

Include activities associated with the critical submittals and their approvals, procurement, fabrication, and delivery of long lead materials, equipment, fabricated assemblies, and supplies. Long lead procurement activities are those with an anticipated procurement sequence of over 90 calendar days.

3.6.4 Mandatory Tasks

Include the following activities/tasks in the initial project schedule and all updates.

a. Submission, review and acceptance of SD-01 Preconstruction Submittals (individual activity for each).

b. Submission, review and acceptance of features require design completion

c. Submission and approval of mechanical/electrical/information systems layout drawings.

d. Long procurement activities

e. Submission and approval of O & M manuals.

f. Submission and approval of as-built drawings.

g. Submission and approval of DD1354 data and installed equipment lists.

h. Submission and approval of testing and air balance (TAB).

i. Submission of TAB specialist design review report.

j. Submission and approval of fire protection specialist.

k. Submission and approval of Building Commissioning Plan, test data, and reports: Develop the schedule logic associated with testing and

commissioning of mechanical systems as defined in Section 01 91 00.15 10 TOTAL BUILDING COMMISSIONING. All tasks associated with all building testing and commissioning will be completed prior to submission of building commissioning report and subsequent contract completion.

l. Air and water balancing.

m. Building commissioning - Functional Performance Testing.

n. Controls testing plan submission.

o. Controls testing.

p. Performance Verification testing.

q. Other systems testing, if required.

r. Contractor's pre-final inspection.

s. Correction of punch list from Contractor's pre-final inspection.

t. Government's pre-final inspection.

u. Correction of punch list from Government's pre-final inspection.

v. Final inspection.

w. Coordination With DPW Utility Privatization Contractors.

x. Detail Activities of all Sub Contractor Buyouts.

y. Submissions, Reviews and Approvals of all Mobilization and Demobilization.

z. Submissions, Reviews and Approvals of Preliminary Schedule.

aa. Submissions, Reviews and Approval of Initial Baseline Schedule.

bb. Required meetings and conference, including all 3-Phase Quality Control Preparatory Meetings.

3.6.5 Government Activities

Show Government and other agency activities that could impact progress. These activities include, but are not limited to: approvals, environmental permit approvals by State regulators, inspections, utility tie-in, Government Furnished Equipment (GFE) and Notice to Proceed (NTP) for phasing requirements.

3.6.6 Standard Activity Coding Dictionary

Use the activity coding structure defined in the Standard Data Exchange Format (SDEF) in ER 1-1-11. This exact structure is mandatory. Develop and assign all Activity Codes to activities as detailed herein. A template SDEF compatible schedule backup file is available on the RMS CM web site: http://rms.usace.army.mil.

The SDEF format is as follows:

Field	Activity Code	Length	Description
1	WRKP	3	Workers per day
2	RESP	4	Responsible party
3	AREA	4	Area of work
4	MODF	6	Modification Number
5	BIDI	6	Bid Item (CLIN)
6	PHAS	2	Phase of work
7	CATW	1	Category of work
8	FOW	20	Feature of work*

*Some systems require that FEATURE OF WORK values be placed in several activity code fields. The notation shown is for Primavera P6. Refer to the specific software guidelines with respect to the FEATURE OF WORK field requirements.

3.6.6.1 Workers Per Day (WRKP)

Assign Workers per Day for all field construction or direct work activities, if directed by the Contracting Officer. Workers per day is based on the average number of workers expected each day to perform a task for the duration of that activity.

3.6.6.2 Responsible Party Coding (RESP)

Assign responsibility code for all activities to the Prime Contractor, Subcontractor(s) or Government agency(ies) responsible for performing the activity.

a. Activities coded with a Government Responsibility code include, but are not limited to: Government approvals, Government design reviews, environmental permit approvals by State regulators, Government Furnished Property/Equipment (GFP) and Notice to Proceed (NTP) for phasing requirements.

b. Activities cannot have more than one Responsibility Code. Examples of acceptable activity code values are: DOR (for the designer of record); ELEC (for the electrical subcontractor); MECH (for the mechanical subcontractor); and GOVT (for USACE).

3.6.6.3 Area of Work Coding (AREA)

Assign Work Area code to activities based upon the work area in which the activity occurs. Define work areas based on resource constraints or space constraints that would preclude a resource, such as a particular trade or craft work crew from working in more than one work area at a time due to restraints on resources or space. Examples of Work Area Coding include different areas within a floor of a building, different floors within a

building, and different buildings within a complex of buildings. Activities cannot have more than one Work Area Code.

Not all activities are required to be Work Area coded. A lack of Work Area coding indicates the activity is not resource or space constrained.

3.6.6.4 Modification Number (MODF)

Assign a Modification Number Code to any activity or sequence of activities added to the schedule as a result of a Contract Modification, when approved by Contracting Officer. Key all Code values to the Government's modification numbering system. An activity can have only one Modification Number Code.

3.6.6.5 Bid Item Coding (BIDI)

Assign a Bid Item Code to all activities using the Contract Line Item Schedule (CLIN) to which the activity belongs, even when an activity is not cost loaded. An activity can have only one BIDI Code.

3.6.6.6 Phase of Work Coding (PHAS)

Assign Phase of Work Code to all activities. Examples of phase of work are procurement phase and construction phase. Each activity can have only one Phase of Work code.

a. Code proposed fast track design and construction phases proposed to allow filtering and organizing the schedule by fast track design and construction packages.

b. If the contract specifies phasing with separately defined performance periods, identify a Phase Code to allow filtering and organizing the schedule accordingly.

3.6.6.7 Category of Work Coding (CATW)

Assign a Category of Work Code to all activities. Category of Work Codes include, but are not limited to construction submittal, procurement, fabrication, weather sensitive installation, non-weather sensitive installation, start-up, and testing activities. Each activity can have no more than one Category of Work Code.

3.6.6.8 Feature of Work Coding (FOW)

Assign a Feature of Work Code to appropriate activities based on the Definable Feature of Work to which the activity belongs based on the approved QC plan.

Definable Feature of Work is defined in Section 01 45 00.00 10 QUALITY CONTROL. An activity can have only one Feature of Work Code.

3.6.7 Contract Milestones and Constraints

Milestone activities are to be used for significant project events including, but not limited to, project phasing, project start and end activities, or interim completion dates. The use of artificial float constraints such as "zero free float" or "zero total float" are prohibited.

Mandatory constraints that ignore or effect network logic are prohibited. No constrained dates are allowed in the schedule other than those specified herein. Submit additional constraints to the Contracting Officer for approval on a case by case basis.

3.6.7.1 Project Start Date Milestone and Constraint

The first activity in the project schedule must be a start milestone titled "NTP Acknowledged," which must have a "Start On" constraint date equal to the date that the NTP is acknowledged.

3.6.7.2 End Project Finish Milestone and Constraint

The last activity in the schedule must be a finish milestone titled "End Project."

Constrain the project schedule to the Contract Completion Date in such a way that if the schedule calculates an early finish, then the float calculation for "End Project" milestone reflects positive float on the longest path. If the project schedule calculates a late finish, then the "End Project" milestone float calculation reflects negative float on the longest path. The Government is under no obligation to accelerate Government activities to support a Contractor's early completion.

3.6.7.3 Interim Completion Dates and Constraints

Constrain contractually specified interim completion dates to show negative float when the calculated late finish date of the last activity in that phase is later than the specified interim completion date.

3.6.7.3.1 Start Phase

Use a start milestone as the first activity for a project phase. Call the start milestone "Start Phase X" where "X" refers to the phase of work.

3.6.7.3.2 End Phase

Use a finish milestone as the last activity for a project phase. Call the finish milestone "End Phase X" where "X" refers to the phase of work.

3.6.8 Calendars

Schedule activities on a Calendar to which the activity logically belongs. Develop calendars to accommodate any contract defined work period such as a 7-day calendar for Government Acceptance activities, concrete cure times, etc. Develop the default Calendar to match the physical work plan with non-work periods identified including weekends and holidays. Develop Seasonal Calendar(s) and assign to seasonally affected activities as applicable.

If an activity is weather sensitive it should be assigned to a calendar showing non-work days on a monthly basis, with the non-work days selected at random across the weeks of the calendar, using the anticipated adverse weather delay work days provided in Time Extension paragraph. Assign non-work days over a seven-day week as weather records are compiled on seven-day weeks, which may cause some of the weather related non-work days to fall on weekends.

3.6.9 Open Ended Logic

Only two open ended activities are allowed: the first activity "NTP Acknowledged" may have no predecessor logic, and the last activity -"End Project" may have no successor logic.

Predecessor open ended logic may be allowed in a time impact analyses upon the Contracting Officer's approval.

3.6.10 Default Progress Data Disallowed

Actual Start and Finish dates must not automatically update with default mechanisms included in the scheduling software. Updating of the percent complete and the remaining duration of any activity must be independent functions. Disable program features that calculate one of these parameters from the other. Activity Actual Start (AS) and Actual Finish (AF) dates assigned during the updating process must match those dates provided in the Contractor Quality Control Reports. Failure to document the AS and AF dates in the Daily Quality Control report will result in disapproval of the Contractor's schedule.

3.6.11 Out-of-Sequence Progress

Activities that have progressed before all preceding logic has been satisfied (Out-of-Sequence Progress) will be allowed only on a case-by-case basis subject to approval by the Contracting Officer. Propose logic corrections to eliminate out of sequence progress or justify not changing the sequencing for approval prior to submitting an updated project schedule. Address out of sequence progress or logic changes in the Narrative Report and in the periodic schedule update meetings.

3.6.12 Added and Deleted Activities

Do not delete activities from the project schedule or add new activities to the schedule without approval from the Contracting Officer. Activity ID and description changes are considered new activities and cannot be changed without Contracting Officer approval.

3.6.13 Original Durations

Activity Original Durations (OD) must be reasonable to perform the work item. OD changes are prohibited unless justification is provided and approved by the Contracting Officer.

3.6.14 Leads, Lags, and Start to Finish Relationships

Lags must be reasonable as determined by the Government and not used in place of realistic original durations, must not be in place to artificially absorb float, or to replace proper schedule logic.

a. Leads (negative lags) are prohibited.

b. Start to Finish (SF) relationships are prohibited.

3.6.15 Retained Logic

Schedule calculations must retain the logic between predecessors and successors ("retained logic" mode) even when the successor activity(s) starts and the predecessor activity(s) has not finished (out-of-sequence

progress). Software features that in effect sever the tie between predecessor and successor activities when the successor has started and the predecessor logic is not satisfied ("progress override") are not be allowed.

3.6.16 Percent Complete

Update the percent complete for each activity started, based on the realistic assessment of earned value. Activities which are complete but for remaining minor punch list work and which do not restrain the initiation of successor activities may be declared 100 percent complete to allow for proper schedule management.

3.6.17 Remaining Duration

Update the remaining duration for each activity based on the number of estimated work days it will take to complete the activity. Remaining duration may not mathematically correlate with percentage found under paragraph entitled Percent Complete.

3.6.18 Cost Loading of Closeout Activities

Cost load the "Correction of punch list from Government pre-final inspection" activity(ies) not less than 1 percent of the present contract value. Activity(ies) may be declared 100 percent complete upon the Government's verification of completion and correction of all punch list work identified during Government pre-final inspection(s).

3.6.18.1 As-Built Drawings

If there is no separate contract line item (CLIN) for as-built drawings, cost load the "Submission and approval of as-built drawings" activity not less than $35,000 or 1 percent of the present contract value, which ever is greater, up to $200,000. Activity will be declared 100 percent complete upon the Government's approval.

3.6.18.2 O & M Manuals

Cost load the "Submission and approval of O & M manuals" activity not less than $20,000. Activity will be declared 100 percent complete upon the Government's approval of all O & M manuals.

3.6.19 Early Completion Schedule and the Right to Finish Early

An Early Completion Schedule is an Initial Project Schedule (IPS) that indicates all scope of the required contract work will be completed before the contractually required completion date.

a. No IPS indicating an Early Completion will be accepted without being fully resource-loaded (including crew sizes and manhours) and the Government agreeing that the schedule is reasonable and achievable.

b. The Government is under no obligation to accelerate work items it is responsible for to ensure that the early completion is met nor is it responsible to modify incremental funding (if applicable) for the project to meet the Contractor's accelerated work.

3.7 PROJECT SCHEDULE SUBMISSIONS

Provide the submissions as described below. The data CD/DVD, reports, and network diagrams required for each submission are contained in paragraph SUBMISSION REQUIREMENTS. If the Contractor fails or refuses to furnish the information and schedule updates as set forth herein, then the Contractor will be deemed not to have provided an estimate upon which a progress payment can be made.

Review comments made by the Government on the schedule(s) do not relieve the Contractor from compliance with requirements of the Contract Documents.

3.7.1 Preliminary Project Schedule Submission

Within 15 calendar days after the NTP is acknowledged submit the Preliminary Project Schedule defining the planned operations detailed for the first 90 calendar days for approval. The approved Preliminary Project Schedule will be used for payment purposes not to exceed 90 calendar days after NTP. Completely cost load the Preliminary Project Schedule to balance the contract award CLINS shown on the Price Schedule. The Preliminary Project Schedule may be summary in nature for the remaining performance period. It must be early start and late finish constrained and logically tied as specified. The Preliminary Project Schedule forms the basis for the Initial Project Schedule specified herein and must include all of the required plan and program preparations, submissions and approvals identified in the contract (for example, Quality Control Plan, Safety Plan, and Environmental Protection Plan) as well as design activities, planned submissions of all early design packages, permitting activities, design review conference activities, and other non-construction activities intended to occur within the first 90 calendar days. Government acceptance of the associated design package(s) and all other specified Program and Plan approvals must occur prior to any planned construction activities. Activity code any activities that are summary in nature after the first 90 calendar days with Bid Item (CLIN) code (BIDI), Responsibility Code (RESP) and Feature of Work code (FOW).

3.7.2 Initial Project Schedule Submission

Submit the Initial Project Schedule for approval within 42 calendar days after Notice To Proceed is issued. Payments will only continue with a Government Approved Initial Project Schedule. The schedule must demonstrate a reasonable and realistic sequence of activities which represent all work through the entire contract performance period. No payment will be made for work items not fully detailed in the Project Schedule.

3.7.3 Periodic Schedule Updates

Update the Project Schedule on a regular basis, monthly at a minimum. Provide a draft Periodic Schedule Update for review at the schedule update meetings as prescribed in the paragraph PERIODIC SCHEDULE UPDATE MEETINGS. These updates will enable the Government to assess Contractor's progress.

a. Update information including Actual Start Dates (AS), Actual Finish Dates (AF), Remaining Durations (RD), and Percent Complete is subject to the approval of the Government at the meeting.

b. AS and AF dates must match the date(s) reported on the Contractor's

Quality Control Report for an activity start or finish.

3.8 SUBMISSION REQUIREMENTS

Submit the following items for the Preliminary Schedule, Initial Schedule, and every Periodic Schedule Update throughout the life of the project:

3.8.1 Data CD/DVDs

Provide two sets of data CD/DVDs containing the current project schedule and all previously submitted schedules in the .xer and sdef format of the scheduling software. Also include on the data CD/DVDs the Narrative Report and all required Schedule Reports. Label each CD/DVD indicating the type of schedule (Preliminary, Initial, Update), full contract number, Data Date and file name. Each schedule must have a unique file name and use project specific settings.

3.8.2 Narrative Report

Provide a Narrative Report with each schedule submission. Four copies of the schedules showing codes, values, categories, numbers, and other items, etc., as required. The Narrative Report is expected to communicate to the Government the thorough analysis of the schedule output and the plans to compensate for any problems, either current or potential, which are revealed through that analysis. Include the following information as minimum in the Narrative Report:

a. Identify and discuss the work scheduled to start in the next update period.

b. A description of activities along the two most critical paths where the total float is less than or equal to 20 work days.

c. A description of current and anticipated problem areas or delaying factors and their impact and an explanation of corrective actions taken or required to be taken.

d. Identify and explain why activities based on their calculated late dates should have either started or finished during the update period but did not.

e. Identify and discuss all schedule changes by activity ID and activity name including what specifically was changed and why the change was needed. Include at a minimum new and deleted activities, logic changes, duration changes, calendar changes, lag changes, resource changes, and actual start and finish date changes.

f. Identify and discuss out-of-sequence work.

3.8.3 Schedule Reports

The format, filtering, organizing and sorting for each schedule report will be as directed by the Contracting Officer. Typically, reports contain Activity Numbers, Activity Description, Original Duration, Remaining Duration, Early Start Date, Early Finish Date, Late Start Date, Late Finish Date, Total Float, Actual Start Date, Actual Finish Date, and Percent Complete. Provide the reports electronically in .pdf format. Provide five set(s) of hardcopy reports. The following lists typical reports that will be requested:

3.8.3.1 Activity Report

List of all activities sorted according to activity number.

3.8.3.2 Logic Report

List of detailed predecessor and successor activities for every activity in ascending order by activity number.

3.8.3.3 Total Float Report

A list of all incomplete activities sorted in ascending order of total float. List activities which have the same amount of total float in ascending order of Early Start Dates. Do not show completed activities on this report.

3.8.3.4 Earnings Report by CLIN

A compilation of the Total Earnings on the project from the NTP to the data date, which reflects the earnings of activities based on the agreements made in the schedule update meeting defined herein. Provided a complete schedule update has been furnished, this report serves as the basis of determining progress payments. Group activities by CLIN number and sort by activity number. Provide a total CLIN percent earned value, CLIN percent complete, and project percent complete. The printed report must contain the following for each activity: the Activity Number, Activity Description, Original Budgeted Amount, Earnings to Date, Earnings this period, Total Quantity, Quantity to Date, and Percent Complete (based on cost).

3.8.3.5 Schedule Log

Provide a Scheduling/Leveling Report generated from the current project schedule being submitted.

3.8.4 Network Diagram

The Network Diagram is required for the Preliminary, Initial and Periodic Updates. Depict and display the order and interdependence of activities and the sequence in which the work is to be accomplished. The Contracting Officer will use, but is not limited to, the following conditions to review compliance with this paragraph:

3.8.4.1 Continuous Flow

Show a continuous flow from left to right with no arrows from right to left. Show the activity number, description, duration, and estimated earned value on the diagram.

3.8.4.2 Project Milestone Dates

Show dates on the diagram for start of project, any contract required interim completion dates, and contract completion dates.

3.8.4.3 Critical Path

Show all activities on the critical path. The critical path is defined as the longest path.

3.8.4.4 Banding

Organize activities using the WBS or as otherwise directed to assist in the understanding of the activity sequence. Typically, this flow will group activities by major elements of work, category of work, work area and/or responsibility.

3.8.4.5 Cash Flow / Schedule Variance Control (SVC) Diagram

With each schedule submission, provide a SVC diagram showing 1) Cash Flow S-Curves indicating planned project cost based on projected early and late activity finish dates, and 2) Earned Value to-date.

3.9 PERIODIC SCHEDULE UPDATE

3.9.1 Periodic Schedule Update Meetings

Conduct periodic schedule update meetings for the purpose of reviewing the proposed Periodic Schedule Update, Narrative Report, Schedule Reports, and progress payment. Conduct meetings at least monthly within five days of the proposed schedule data date. Provide a computer with the scheduling software loaded and a projector which allows all meeting participants to view the proposed schedule during the meeting. The Contractor's authorized scheduler must organize, group, sort, filter, perform schedule revisions as needed and review functions as requested by the Contractor and/or Government. The meeting is a working interactive exchange which allows the Government and Contractor the opportunity to review the updated schedule on a real time and interactive basis. The meeting will last no longer than 8 hours. Provide a draft of the proposed narrative report and schedule data file to the Government a minimum of two workdays in advance of the meeting. The Contractor's Project Manager and scheduler must attend the meeting with the authorized representative of the Contracting Officer. Superintendents, foremen and major subcontractors must attend the meeting as required to discuss the project schedule and work. Following the periodic schedule update meeting, make corrections to the draft submission. Include only those changes approved by the Government in the submission and invoice for payment.

3.9.2 Update Submission Following Progress Meeting

Submit the complete Periodic Schedule Update of the Project Schedule containing all approved progress, revisions, and adjustments, pursuant to paragraph SUBMISSION REQUIREMENTS not later than 4 work days after the periodic schedule update meeting. Payments can only be distributed with a Government Approved Periodic Schedule Update.

3.10 WEEKLY PROGRESS MEETINGS

Conduct a weekly meeting with the Government (or as otherwise mutually agreed to) between the meetings described in paragraph entitled PERIODIC SCHEDULE UPDATE MEETINGS for the purpose of jointly reviewing the actual status of weekly activities of the project as compared to the as planned progress and to review planned activities for the upcoming two weeks. Use the current approved schedule update for the purposes of this meeting and for the production and review of reports. At the weekly progress meeting, address the status of RFIs, RFPs, project schedule, and Submittals.

3.11 Weekly Activity Status And Data

Project activities are to be status (d) on a weekly bases by end of day each Monday. On each Tuesday, at 8 am extract the following data from P6 and forward to the government field team (P6 layout with headers/columns in order of left to right): Activity ID, Activity Name, Activity Type, Physical Percent Complete, Calendar, Original Duration, Remaining Duration, Start, Finish, Free Float and Total Float.

3.12 REQUESTS FOR TIME EXTENSIONS

Provide a justification of delay to the Contracting Officer in accordance with the contract provisions and clauses for approval within 10 days of a delay occurring. Also prepare a time impact analysis for each Government request for proposal (RFP) to justify time extensions.

3.12.1 Justification of Delay

Provide a description of the event(s) that caused the delay and/or impact to the work. As part of the description, identify all schedule activities impacted. Show that the event that caused the delay/impact was the responsibility of the Government. Provide a time impact analysis that demonstrates the effects of the delay or impact on the project completion date or interim completion date(s). Evaluate multiple impacts chronologically; each with its own justification of delay. With multiple impacts consider any concurrence of delay. A time extension and the schedule fragnet becomes part of the project schedule and all future schedule updates upon approval by the Contracting Officer.

3.12.2 Time Impact Analysis (Prospective Analysis)

Prepare a time impact analysis for approval by the Contracting Officer based on industry standard AACE 52R-06. Utilize a copy of the last approved schedule prior to the first day of the impact or delay for the time impact analysis. If Contracting Officer determines the time frame between the last approved schedule and the first day of impact is too great, prepare an interim updated schedule to perform the time impact analysis. Unless approved by the Contracting Officer, no other changes may be incorporated into the schedule being used to justify the time impact.

3.12.3 Forensic Schedule Analysis (Retrospective Analysis)

Prepare an analysis for approval by the Contracting Officer based on industry standard AACE 29R-03.

3.12.4 Fragmentary Network (Fragnet)

Prepare a proposed fragnet for time impact analysis consisting of a sequence of new activities that are proposed to be added to the project schedule to demonstrate the influence of the delay or impact to the project's contractual dates. Clearly show how the proposed fragnet is to be tied into the project schedule including all predecessors and successors to the fragnet activities. The proposed fragnet must be approved by the Contracting Officer prior to incorporation into the project schedule.

3.12.5 Time Extension

The Contracting Officer must approve the Justification of Delay including the time impact analysis before a time extension will be granted. No time extension will be granted unless the delay consumes all available Project Float and extends the projected finish date ("End Project" milestone) beyond the Contract Completion Date. The time extension will be in calendar days.

Actual delays that are found to be caused by the Contractor's own actions, which result in a calculated schedule delay will not be a cause for an extension to the performance period, completion date, or any interim milestone date.

3.12.5.1 Time Extensions For Changes In The Work

Notwithstanding other provisions of this contract, it is mutually understood that the time extensions for changes in the work will depend upon the extent by which the changes cause delay in the completion of the various elements of construction. The change order granting the time extension may provide that the contract completion date will be extended only for those specific elements so delayed and that the remaining contract completion dates for all other portions of the work will not be altered and may further provide for an equitable readjustment of liquidated damages under the new completion schedule. (FAR 52.212 6)

3.12.5.2 Time Extensions For Unusually Severe Weather

1. This provision specifies the procedure for determination of time extension for usually severe weather in accordance with the contract clause entitled "Default: (Fixed Price Construction)." In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

   a. The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

   b. The unusually severe weather must cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

2. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

MONTHLY ANTICIPATED ADVERSE WEATHER DELAY (West Point, NY)											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
8	7	8	8	9	6	6	6	5	6	7	8

3. Upon acknowledgment of the Notice to Proceed (NTP) and continuing

throughout the contract, the Contractor will record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled workday. The number of actual adverse weather delay days must include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph 2 above, the Contracting Officer will convert qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the contract clause entitled "Default (Fixed Price Construction)".

3.12.6 Impact to Early Completion Schedule

No extended overhead will be paid for delay prior to the original Contract Completion Date for an Early Completion IPS unless the Contractor actually performed work in accordance with that Early Completion Schedule. The Contractor must show that an early completion was achievable had it not been for the impact.

3.13 FAILURE TO ACHIEVE PROGRESS

Should the progress fall behind the approved project schedule for reasons other than those that are excusable within the terms of the contract, the Contracting Officer may require provision of a written recovery plan for approval. The plan must detail how progress will be made-up to include which activities will be accelerated by adding additional crews, longer work hours, extra work days, etc.

3.13.1 Artificially Improving Progress

Artificially improving progress by means such as, but not limited to, revising the schedule logic, modifying or adding constraints, shortening activity durations, or changing calendars in the project schedule is prohibited. Indicate assumptions made and the basis for any logic, constraint, duration and calendar changes used in the creation of the recovery plan. Any additional resources, manpower, or daily and weekly work hour changes proposed in the recovery plan must be evident at the work site and documented in the daily report along with the Schedule Narrative Report.

3.13.2 Failure to Perform

Failure to perform work and maintain progress in accordance with the supplemental recovery plan may result in an interim and final unsatisfactory performance rating and may result in corrective action directed by the Contracting Officer pursuant to FAR 52.236-15 Schedules for Construction Contracts, FAR 52.249-10 Default (Fixed-Price Construction), and other contract provisions.

3.13.3 Recovery Schedule

Should the Contracting Officer find it necessary, submit a recovery schedule pursuant to FAR 52.236-15 Schedules for Construction Contracts.

3.14 OWNERSHIP OF FLOAT

Except for the provision given in the paragraph IMPACT TO EARLY COMPLETION SCHEDULE, float available in the schedule, at any time, may not be considered for the exclusive use of either the Government or the Contractor including activity and/or project float. Activity float is the number of work days that an activity can be delayed without causing a delay to the "End Project" finish milestone. Project float (if applicable) is the number of work days between the projected early finish and the contract completion date milestone.

3.15 TRANSFER OF SCHEDULE DATA INTO RMS/RMS CM

Import the schedule data into the Resident Management System Contractor Mode (RMS CM) and export the RMS CM data to the Government. This data is considered to be additional supporting data in a form and detail required by the Contracting Officer pursuant to FAR 52.232-5 Payments under Fixed-Price Construction Contracts. The receipt of a proper payment request pursuant to FAR 52.232-27 Prompt Payment for Construction Contracts is contingent upon the Government receiving both acceptable and provable hard copies and matching electronic export from RMS CM of the application for progress payment.

3.16 PRIMAVERA P6 MANDATORY REQUIREMENTS

If Primavera P6 is being used, request a backup file template (.xer) from the Government, if one is available, prior to building the schedule. The following settings are mandatory and required in all schedule submissions to the Government:

a. Activity Codes must be Project Level, not Global or EPS level.

b. Calendars must be Project Level, not Global or Resource level.

c. Activity Duration Types must be set to "Fixed Duration & Units".

d. Percent Complete Types must be set to "Physical".

e. Time Period Admin Preferences must remain the default "8.0 hr/day, 40 hr/week, 172 hr/month, 2000 hr/year". Set Calendar Work Hours/Day to 8.0 Hour days.

f. Set Schedule Option for defining Critical Activities to "Longest Path".

g. Set Schedule Option for defining progressed activities to "Retained Logic".

h. Set up cost loading using a single lump sum labor resource. The Price/Unit must be $1/hr, Default Units/Time must be "8h/d", and settings "Auto Compute Actuals" and "Calculate costs from units" selected.

i. Activity ID's must not exceed 10 characters.

j. Activity Names must have the most defining and detailed description within the first 30 characters.

k. Refer and utilize schedule specification verbiage. Activity Names verbiage and acronyms are to be consistent and accurate throughout the

schedule(s). It is the discretion of the Government which verbiage and acronyms will be utilized.

-- End of Section --

SECTION 01 33 00

SUBMITTAL PROCEDURES
08/18

PART 1 GENERAL

1.1 SUMMARY

1.1.1 Submittal Information

The Contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Each submittal is to be complete and in sufficient detail to allow ready determination of compliance with contract requirements.

Units of weights and measures used on all submittals are to be the same as those used in the contract drawings.

1.1.2 Project Type

The Contractor's Quality Control (CQC) System Manager are to check and approve all items before submittal and stamp, sign, and date indicating action taken. Proposed deviations from the contract requirements are to be clearly identified. Include within submittals items such as: Contractor's, manufacturer's, or fabricator's drawings; descriptive literature including (but not limited to) catalog cuts, diagrams, operating charts or curves; test reports; test cylinders; samples; O&M manuals (including parts list); certifications; warranties; and other such required submittals.

1.1.3 Submission of Submittals

Schedule and provide submittals requiring Government approval before acquiring the material or equipment covered thereby. Pick up and dispose of samples not incorporated into the work in accordance with manufacturer's Safety Data Sheets (SDS) and in compliance with existing laws and regulations.

1.2 DEFINITIONS

1.2.1 Submittal Descriptions (SD)

Submittal requirements are specified in the technical sections. Examples and descriptions of submittals identified by the Submittal Description (SD) numbers and titles follow:

SD-01 Preconstruction Submittals

Submittals that are required prior to or at the start of construction (work) or the next major phase of the construction on a multiphase contract.

For Government approved division 01 preconstruction submittals that are required prior to or commencing with the start of work must be submitted within 30 calendar days of contract award unless specified elsewhere in the specifications. For Contractor approved division 01 submittals that are required prior to or commencing with the start of work must be submitted within 45 calendar days of contract award unless specified elsewhere in the specifications.

Preconstruction Submittals include schedules and a tabular list of locations, features, and other pertinent information regarding products, materials, equipment, or components to be used in the work.

Certificates Of Insurance

Surety Bonds

List Of Proposed Subcontractors

List Of Proposed Products

Baseline Network Analysis Schedule (NAS)

Submittal Register

Schedule Of Prices Or Earned Value Report

Accident Prevention Plan

Work Plan

Quality Control (QC) plan

Environmental Protection Plan
SD-02

SD-02 Shop Drawings

Drawings, diagrams and schedules specifically prepared to illustrate some portion of the work.

Diagrams and instructions from a manufacturer or fabricator for use in producing the product and as aids to the Contractor for integrating the product or system into the project.

Drawings prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated.

SD-03 Product Data

Catalog cuts, illustrations, schedules, diagrams, performance charts, instructions and brochures illustrating size, physical appearance and other characteristics of materials, systems or equipment for some portion of the work.

Samples of warranty language when the contract requires extended

product warranties.

SD-04 Samples

Fabricated or unfabricated physical examples of materials, equipment or workmanship that illustrate functional and aesthetic characteristics of a material or product and establish standards by which the work can be judged.

Color samples from the manufacturer's standard line (or custom color samples if specified) to be used in selecting or approving colors for the project.

Field samples and mock-ups constructed on the project site establish standards ensuring work can be judged. Includes assemblies or portions of assemblies that are to be incorporated into the project and those that will be removed at conclusion of the work.

SD-05 Design Data

Design calculations, mix designs, analyses or other data pertaining to a part of work.

Design submittals, design substantiation submittals and extensions of design submittals.

SD-06 Test Reports

Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. Unless specified in another section, testing must have been within three years of date of contract award for the project.

Report that includes findings of a test required to be performed on an actual portion of the work or prototype prepared for the project before shipment to job site.

Report that includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.

Investigation reports

Daily logs and checklists

Final acceptance test and operational test procedure

SD-07 Certificates

Statements printed on the manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that the product, system, or material meets specification requirements. Must be dated after award of project contract and clearly name the project.

Document required of Contractor, or of a manufacturer, supplier, installer or Subcontractor through Contractor. The document purpose

is to further promote the orderly progression of a portion of the work by documenting procedures, acceptability of methods, or personnel qualifications.

Confined space entry permits

Text of posted operating instructions

SD-08 Manufacturer's Instructions

Preprinted material describing installation of a product, system or material, including special notices and (SDS)concerning impedances, hazards and safety precautions.

SD-09 Manufacturer's Field Reports

Documentation of the testing and verification actions taken by manufacturer's representative at the job site, in the vicinity of the job site, or on a sample taken from the job site, on a portion of the work, during or after installation, to confirm compliance with manufacturer's standards or instructions. The documentation must be signed by an authorized official of a testing laboratory or agency and state the test results; and indicate whether the material, product, or system has passed or failed the test.

Factory test reports.

SD-10 Operation and Maintenance Data

Data provided by the manufacturer, or the system provider, including manufacturer's help and product line documentation, necessary to maintain and install equipment, for operating and maintenance use by facility personnel.

Data required by operating and maintenance personnel for the safe and efficient operation, maintenance and repair of the item.

Data incorporated in an operations and maintenance manual or control system.

SD-11 Closeout Submittals

Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.

Submittals required for Guiding Principle Validation (GPV) or Third Party Certification (TPC).

Special requirements necessary to properly close out a construction contract. For example, Record Drawings and as-built drawings. Also, submittal requirements necessary to properly close out a major phase of construction on a multi-phase contract.

1.2.2 Approving Authority

Office or designated person authorized to approve the submittal.

1.2.3 Work

As used in this section, on-site and off-site construction required by contract documents, including labor necessary to produce submittals, construction, materials, products, equipment, and systems incorporated or to be incorporated in such construction. In exception, excludes work to produce SD-01 submittals.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with this section.

SD-01 Preconstruction Submittals

Submittal Register; G, RO

1.4 SUBMITTAL CLASSIFICATION

1.4.1 Government Approved (G)

Government approval is required for extensions of design, critical materials, variations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Government.

Government approval is required for any variations from the Solicitation or the Accepted Proposal and for other items as designated by the Government.

Within the terms of the Contract Clause SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, submittals are considered to be "shop drawings."

1.4.2 For Information Only

Submittals not requiring Government approval will be for information only. Within the terms of the Contract Clause SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, they are not considered to be "shop drawings."

1.4.3 Sustainability Reporting Submittals (S)

Submittals for Guiding Principle Validation (GPV) or Third Party Certification (TPC) are indicated with an "S" designation. These submittals are for information only and for use as specified in Section 01 33 29 SUSTAINABILITY REPORTING.

Schedule submittals for these items throughout the course of construction as provided; do not wait until closeout.

1.5 PREPARATION

1.5.1 Transmittal Form

Use the ENG Form 4025-R transmittal form for submitting both Government-approved and information-only submittals. Submit in accordance

with the instructions on the reverse side of the form. These forms are included in the RMS CM software that the Contractor is required to use for this contract. Properly complete this form by filling out all the heading blank spaces and identifying each item submitted. Exercise special care to ensure proper listing of the specification paragraph and sheet number of the contract drawings pertinent to the data submitted for each item.

1.5.2 Submittal Format

1.5.2.1 Format of SD-01 Preconstruction Submittals

When the submittal includes a document that is to be used in the project, or is to become part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document itself, but to a separate sheet accompanying the document.

Provide data in the unit of measure used in the contract documents.

1.5.2.2 Format for SD-02 Shop Drawings

Provide shop drawings not less than 8 1/2 by 11 inches nor more than 30 by 42 inches, except for full-size patterns or templates. Prepare drawings to accurate size, with scale indicated, unless another form is required. Ensure drawings are suitable for reproduction and of a quality to produce clear, distinct lines and letters, with dark lines on a white background.

a. Include the nameplate data, size, and capacity on drawings. Also include applicable federal, military, industry, and technical society publication references.

b. Dimension drawings, except diagrams and schematic drawings. Prepare drawings demonstrating interface with other trades to scale. Use the same unit of measure for shop drawings as indicated on the contract drawings. Identify materials and products for work shown.

Submit an electronic copy of drawings in PDF format.

1.5.2.2.1 Drawing Identification

Include on each drawing the drawing title, number, date, and revision numbers and dates, in addition to information required in paragraph IDENTIFYING SUBMITTALS.

Number drawings in a logical sequence. Each drawing is to bear the number of the submittal in a uniform location next to the title block. Place the Government contract number in the margin, immediately below the title block, for each drawing.

Reserve a blank space, no smaller than 5 Square inches on the right-hand side of each sheet for the Government disposition stamp.

1.5.2.3 Format of SD-03 Product Data

Present product data submittals for each section. Include a table of contents, listing the page and catalog item numbers for product data.

Indicate, by prominent notation, each product that is being submitted; indicate the specification section number and paragraph number to which it pertains.

1.5.2.3.1 Product Information

Supplement product data with material prepared for the project to satisfy the submittal requirements where product data does not exist. Identify this material as developed specifically for the project, with information and format as required for submission of SD-07 Certificates.

Provide product data in units used in the Contract documents. Where product data are included in preprinted catalogs with another unit, submit the dimensions in contract document units, on a separate sheet.

1.5.2.3.2 Standards

Where equipment or materials are specified to conform to industry or technical-society reference standards of such organizations as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturer's Association (NEMA), Underwriters Laboratories (UL), or Association of Edison Illuminating Companies (AEIC), submit proof of such compliance. The label or listing by the specified organization will be acceptable evidence of compliance. In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing, and approved by the Contracting Officer. State on the certificate that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.

1.5.2.3.3 Data Submission

Collect required data submittals for each specific material, product, unit of work, or system into a single submittal that is marked for choices, options, and portions applicable to the submittal. Mark each copy of the product data identically. Partial submittals will not be accepted for expedition of the construction effort.

Submit the manufacturer's instructions before installation.

1.5.2.4 Format of SD-04 Samples

1.5.2.4.1 Sample Characteristics

Furnish samples in the following sizes, unless otherwise specified or unless the manufacturer has prepackaged samples of approximately the same size as specified:

a. Sample of Equipment or Device: Full size.

b. Sample of Materials Less Than 2 by 3 inches: Built up to 8 1/2 by 11 inches.

c. Sample of Materials Exceeding 8 1/2 by 11 inches: Cut down to 8 1/2 by 11 inches and adequate to indicate color, texture, and material variations.

d. Sample of Linear Devices or Materials: 10 inch length or length to be supplied, if less than 10 inches. Examples of linear devices or materials are conduit and handrails.

e. Sample Volume of Nonsolid Materials: Pint. Examples of nonsolid materials are sand and paint.

f. Color Selection Samples: 2 by 4 inches. Where samples are specified for selection of color, finish, pattern, or texture, submit the full set of available choices for the material or product specified. Sizes and quantities of samples are to represent their respective standard unit.

g. Sample Panel: 4 by 4 feet.

h. Sample Installation: 100 square feet.

1.5.2.4.2 Sample Incorporation

Reusable Samples: Incorporate returned samples into work only if so specified or indicated. Incorporated samples are to be in undamaged condition at the time of use.

Recording of Sample Installation: Note and preserve the notation of any area constituting a sample installation, but remove the notation at the final clean-up of the project.

1.5.2.4.3 Comparison Sample

Samples Showing Range of Variation: Where variations in color, finish, pattern, or texture are unavoidable due to nature of the materials, submit sets of samples of not less than three units showing extremes and middle of range. Mark each unit to describe its relation to the range of the variation.

When color, texture, or pattern is specified by naming a particular manufacturer and style, include one sample of that manufacturer and style, for comparison.

1.5.2.5 Format of SD-05 Design Data

Provide design data and certificates on 8 1/2 by 11 inch paper.

1.5.2.6 Format of SD-06 Test Reports

By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

1.5.2.7 Format of SD-07 Certificates

Provide design data and certificates on 8 1/2 by 11 inch paper.

1.5.2.8 Format of SD-08 Manufacturer's Instructions

Present manufacturer's instructions submittals for each section. Include the manufacturer's name, trade name, place of manufacture, and catalog model or number on product data. Also include applicable federal, military, industry, and technical-society publication references. If supplemental information is needed to clarify the manufacturer's data, submit it as specified for SD-07 Certificates.

Submit the manufacturer's instructions before installation.

1.5.2.8.1 Standards

Where equipment or materials are specified to conform to industry or technical-society reference standards of such organizations as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturer's Association (NEMA), Underwriters Laboratories (UL), or Association of Edison Illuminating Companies (AEIC), submit proof of such compliance. The label or listing by the specified organization will be acceptable evidence of compliance. In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing, and approved by the Contracting Officer. State on the certificate that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.

1.5.2.9 Format of SD-09 Manufacturer's Field Reports

By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

1.5.2.10 Format of SD-10 Operation and Maintenance Data (O&M)

Comply with the requirements specified in Section 01 78 23 OPERATION AND MAINTENANCE DATA for O&M Data format.

1.5.2.11 Format of SD-11 Closeout Submittals

When the submittal includes a document that is to be used in the project or is to become part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document itself, but to a separate sheet accompanying the document.

Provide data in the unit of measure used in the contract documents.

1.5.3 Source Drawings for Shop Drawings

1.5.3.1 Source Drawings

The entire set of source drawing files (DWG) will not be provided to the Contractor. Request the specific Drawing Number for the preparation of shop drawings. Only those drawings requested to prepare shop drawings will be provided. These drawings are provided only after award.

1.5.3.2 Terms and Conditions

Data contained on these electronic files must not be used for any purpose other than as a convenience in the preparation of construction data for the referenced project. Any other use or reuse is at the sole risk of the Contractor and without liability or legal exposure to the Government. The Contractor must make no claim, and waives to the fullest extent permitted by law any claim or cause of action of any nature against the Government, its agents, or its subconsultants that may arise out of or in connection with the use of these electronic files. The Contractor must, to the fullest extent permitted by law, indemnify and hold the Government harmless against all damages, liabilities, or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the

use of these electronic files.

These electronic source drawing files are not construction documents. Differences may exist between the source drawing files and the corresponding construction documents. The Government makes no representation regarding the accuracy or completeness of the electronic source drawing files, nor does it make representation to the compatibility of these files with the Contractor hardware or software. The Contractor is responsible for determining if any conflict exists. In the event that a conflict arises between the signed and sealed construction documents prepared by the Government and the furnished source drawing files, the signed and sealed construction documents govern. Use of these source drawing files does not relieve the Contractor of the duty to fully comply with the contract documents, including and without limitation the need to check, confirm and coordinate the work of all contractors for the project. If the Contractor uses, duplicates or modifies these electronic source drawing files for use in producing construction data related to this contract, remove all previous indication of ownership (seals, logos, signatures, initials and dates).

1.5.4 Electronic File Format

Provide submittals in electronic format, with the exception of material samples required for SD-04 Samples items. In addition to the electronic submittal, provide three hard copies of the submittals when requested. Compile the submittal file as a single, complete document, to include the Transmittal Form described within. Name the electronic submittal file specifically according to its contents, and coordinate the file naming convention with the Contracting Officer. Electronic files must be of sufficient quality that all information is legible. Use PDF as the electronic format, unless otherwise specified or directed by the Contracting Officer. Generate PDF files from original documents with bookmarks so that the text included in the PDF file is searchable and can be copied. If documents are scanned, optical character resolution (OCR) routines are required. Index and bookmark files exceeding 30 pages to allow efficient navigation of the file. When required, the electronic file must include a valid electronic signature or a scan of a signature.

E-mail electronic submittal documents smaller than 10MB to an e-mail address as directed by the Contracting Officer. Provide electronic documents over 10 MB on an optical disc or through an electronic file sharing system such as the DoD SAFE Web Application located at the following website: https://safe.apps.mil/.

If hard copies are requested in addition to the electronic copy, the date at which the submittal review process starts is the date that the hard copy is in receipt by the Government.

1.6 QUANTITY OF SUBMITTALS

1.6.1 Number of SD-01 Preconstruction Submittal Copies

Unless otherwise specified, submit administrative submittals electronically.

1.6.2 Number of SD-04 Samples

a. Submit two samples, or two sets of samples showing the range of variation, of each required item. One approved sample or set of samples will be retained by the approving authority and one will be

returned to the Contractor.

b. Submit one sample panel or provide one sample installation where directed. Include components listed in the technical section or as directed.

c. Submit one sample installation, where directed.

d. Submit one sample of nonsolid materials.

1.7 INFORMATION ONLY SUBMITTALS

Submittals without a "G" designation must be certified by the QC manager and submitted to the Contracting Officer for information-only. Approval of the Contracting Officer is not required on information only submittals. The Contracting Officer will mark "receipt acknowledged" on submittals for information and will return only the transmittal cover sheet to the Contractor. Normally, submittals for information only will not be returned. However, the Government reserves the right to return unsatisfactory submittals and require the Contractor to resubmit any item found not to comply with the contract. This does not relieve the Contractor from the obligation to furnish material conforming to the plans and specifications; will not prevent the Contracting Officer from requiring removal and replacement of nonconforming material incorporated in the work; and does not relieve the Contractor of the requirement to furnish samples for testing by the Government laboratory or for check testing by the Government in those instances where the technical specifications so prescribe.

1.8 PROJECT SUBMITTAL REGISTER

A sample Project Submittal Register showing items of equipment and materials for when submittals are required by the specifications is provided as "Appendix A - Submittal Register."

1.8.1 Submittal Management

Prepare and maintain a submittal register, as the work progresses. Do not change data that is output in columns (c), (d), (e), and (f) as delivered by Government; retain data that is output in columns (a), (g), (h), and (i) as approved. As an attachment, provide a submittal register showing items of equipment and materials for which submittals are required by the specifications. This list may not be all-inclusive and additional submittals may be required. Maintain a submittal register for the project in accordance with Section 01 45 00.15 10 RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE(RMS CM). The Government will provide the initial submittal register in electronic format with the following fields completed, to the extent that will be required by the Government during subsequent usage.

Column (c): Lists specification section in which submittal is required.

Column (d): Lists each submittal description (SD Number. and type, e.g., SD-02 Shop Drawings) required in each specification section.

Column (e): Lists one principal paragraph in each specification section where a material or product is specified. This listing is

only to facilitate locating submitted requirements. Do not consider entries in column (e) as limiting the project requirements.

Thereafter, the Contractor is to track all submittals by maintaining a complete list, including completion of all data columns and all dates on which submittals are received by and returned by the Government.

1.8.2 Preconstruction Use of Submittal Register

Submit the submittal register. Include the QC plan and the project schedule. Verify that all submittals required for the project are listed and add missing submittals. Coordinate and complete the following fields on the register submitted with the QC plan and the project schedule:

Column (a) Activity Number: Activity number from the project schedule.

Column (g) Contractor Submit Date: Scheduled date for the approving authority to receive submittals.

Column (h) Contractor Approval Date: Date that Contractor needs approval of submittal.

Column (i) Contractor Material: Date that Contractor needs material delivered to Contractor control.

1.8.3 Contractor Use of Submittal Register

Update the following fields in the Government-furnished submittal register program or equivalent fields in the program used by the Contractor with each submittal throughout the contract.

Column (b) Transmittal Number: List of consecutive, Contractor-assigned numbers.

Column (j) Action Code (k): Date of action used to record Contractor's review when forwarding submittals to QC.

Column (l) Date submittal transmitted.

Column (q) Date approval was received.

1.8.4 Approving Authority Use of Submittal Register

Update the following fields:

Column (b) Transmittal Number: List of consecutive, Contractor-assigned numbers.

Column (l) Date submittal was received.

Column (m) through (p) Dates of review actions.

Column (q) Date of return to Contractor.

1.8.5 Action Codes

1.8.5.1 Contractor Action Codes

DESIGN BID BUILD SUBMITTALS			
Submittal Classifications shown in UFGS Sections	Submittal Classification	Corresponding SpecsIntact Submittal Register Code which is populated in the SI Submittal Register. Software Limitations: (The software shows one character delineation in the SpecsIntact Submittal Register)	RMS – The following Submittal Classifications are populated in RMS when the SpecsIntact Submittal Data File is pulled into RMS)
G	Submittal requires Government Approval	G	GA
BLANK	Submittal is For Information Only (FIO)	BLANK	FIO
S	Submittal is for documentation of Sustainable requirements	S	S/FIO
AE	Submittal requires the Designer of Record approval	AE	DA

1.8.6 Delivery of Copies

Submit an updated electronic copy of the submittal register to the Contracting Officer with each invoice request. Provide an updated Submittal Register monthly regardless of whether an invoice is submitted.

1.9 VARIATIONS

Variations from contract requirements require Contracting Officer approval pursuant to contract Clause FAR 52.236-21 Specifications and Drawings for Construction, and will be considered where advantageous to the Government.

1.9.1 Considering Variations

Discussion of variations with the Contracting Officer before submission will help ensure that functional and quality requirements are met and minimize rejections and resubmittals.

Specifically point out variations from contract requirements in a transmittal letter. Failure to point out variations may cause the

Government to require rejection and removal of such work at no additional cost to the Government.

1.9.2 Proposing Variations

The Contracting Officer will indicate an approval or disapproval of the variation request; and if not approved as submitted, will indicate the Government's reasons therefore. Any work done before such approval is received is performed at the Contractor's risk."

Specifically point out variations from contract requirements in a transmittal letter. Failure to point out variations may cause the Government to require rejection and removal of such work at no additional cost to the Government.

Check the column "variation" of ENG Form 4025-R for submittals that include variations proposed by the Contractor. Set forth in writing the reason for any variations and note such variations on the submittal. The Government reserves the right to rescind inadvertent approval of submittals containing unnoted variations.

1.9.3 Warranting that Variations are Compatible

When delivering a variation for approval, the Contractor warrants that this contract has been reviewed to establish that the variation, if incorporated, will be compatible with other elements of work.

1.9.4 Review Schedule Extension

In addition to the normal submittal review period, a period of 14 calendar days will be allowed for the Government to consider submittals with variations.

1.10 SCHEDULING

Schedule and submit concurrently product data and shop drawings covering component items forming a system or items that are interrelated. Submit pertinent certifications at the same time. No delay damages or time extensions will be allowed for time lost in late submittals. Allow an additional 21 calendar days for review and approval of submittals for refrigeration and HVAC control systems.

a. Coordinate scheduling, sequencing, preparing, and processing of submittals with performance of work so that work will not be delayed by submittal processing. The Contractor is responsible for additional time required for Government reviews resulting from required resubmittals. The review period for each resubmittal is the same as for the initial submittal.

b. Submittals required by the contract documents are listed on the submittal register. If a submittal is listed in the submittal register but does not pertain to the contract work, the Contractor is to include the submittal in the register and annotate it "N/A" with a brief explanation. Approval by the Contracting Officer does not relieve the Contractor of supplying submittals required by the contract documents but that have been omitted from the register or

marked "N/A."

c. Resubmit the submittal register and annotate it monthly with actual submission and approval dates. When all items on the register have been fully approved, no further resubmittal is required.

Contracting Officer review will be completed within 30 calendar days after the date of submission.

1.11 GOVERNMENT APPROVING AUTHORITY

When the approving authority is the Contracting Officer, the Government will:

a. Note the date on which the submittal was received.

b. Review submittals for approval within the scheduling period specified and only for conformance with project design concepts and compliance with contract documents.

c. Identify returned submittals with one of the actions defined in paragraph REVIEW NOTATIONS and with comments and markings appropriate for the action indicated.

Upon completion of review of submittals requiring Government approval, stamp and date submittals. Electronic copies of the submittal will be retained by the Contracting Officer and distributed to the Contractor unless specified otherwise.One copy of the submittal will be retained by the Contracting Officer and two copies of the submittal will be returned to the Contractor, when hard copy submittals are requested.

1.11.1 Review Notations

Submittals will be returned to the Contractor with the following notations:

a. Submittals marked "approved" or "accepted" authorize proceeding with the work covered.

b. Submittals marked "approved as noted" or "approved, except as noted, resubmittal not required," authorize proceeding with the work covered provided that the Contractor takes no exception to the corrections.

c. Submittals marked "not approved," "disapproved," or "revise and resubmit" indicate incomplete submittal or noncompliance with the contract requirements or design concept. Resubmit with appropriate changes. Do not proceed with work for this item until the resubmittal is approved.

d. Submittals marked "not reviewed" indicate that the submittal has been previously reviewed and approved, is not required, does not have evidence of being reviewed and approved by Contractor, or is not complete. A submittal marked "not reviewed" will be returned with an explanation of the reason it is not reviewed. Resubmit submittals returned for lack of review by Contractor or for being incomplete, with appropriate action, coordination, or change.

e. Submittals marked "receipt acknowledged" indicate that submittals have been received by the Government. This applies only to "information-only submittals" as previously defined.

1.12 DISAPPROVED SUBMITTALS

Make corrections required by the Contracting Officer. If the Contractor considers any correction or notation on the returned submittals to constitute a change to the contract drawings or specifications, give notice to the Contracting Officer as required under the FAR clause titled CHANGES. The Contractor is responsible for the dimensions and design of connection details and the construction of work. Failure to point out variations may cause the Government to require rejection and removal of such work at the Contractor's expense.

If changes are necessary to submittals, make such revisions and resubmit in accordance with the procedures above. No item of work requiring a submittal change is to be accomplished until the changed submittals are approved.

1.13 APPROVED SUBMITTALS

The Contracting Officer's approval of submittals is not to be construed as a complete check, and indicates only that the general method of construction, materials, detailing, and other information are satisfactory. the design, general method of construction, materials, detailing, and other information appear to meet the Solicitation and Accepted Proposal.

Approval or acceptance by the Government for a submittal does not relieve the Contractor of the responsibility for meeting the contract requirements or for any error that may exist, because under the Quality Control (QC) requirements of this contract, the Contractor is responsible for ensuring information contained with in each submittal accurately conforms with the requirements of the contract documents.

After submittals have been approved or accepted by the Contracting Officer, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

1.14 APPROVED SAMPLES

Approval of a sample is only for the characteristics or use named in such approval and is not be construed to change or modify any contract requirements. Before submitting samples, provide assurance that the materials or equipment will be available in quantities required in the project. No change or substitution will be permitted after a sample has been approved.

Match the approved samples for materials and equipment incorporated in the work. If requested, approved samples, including those that may be damaged in testing, will be returned to the Contractor, at its expense, upon completion of the contract. Unapproved samples will also be returned to the Contractor at its expense, if so requested.

Failure of any materials to pass the specified tests will be sufficient cause for refusal to consider, under this contract, any further samples of the same brand or make as that material. The Government reserves the right to disapprove any material or equipment that has previously proved unsatisfactory in service.

Samples of various materials or equipment delivered on the site or in place may be taken by the Contracting Officer for testing. Samples

failing to meet contract requirements will automatically void previous approvals. Replace such materials or equipment to meet contract requirements.

1.15 WITHHOLDING OF PAYMENT

Payment for materials incorporated in the work will not be made if required approvals have not been obtained. No payment for materials incorporated in the work will be made unless all required DOR approvals or required Government approvals have been obtained. There will be no partial payment made respective of partial delivery of the As-built/Operations and Maintenance requirements, training, commissioning, punch lists, etc. Payment is made for 100 percent submission of closeout submittals only.

1.16 STAMPS

Certify the submittal data as follows on Form ENG 4025: "I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

_____NAME OF CONTRACTOR _____ SIGNATURE OF CONTRACTOR

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

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SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
West Point Lincoln Hall

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAG # RAPH	CLASSIFICATION	GOVT OR A/E REVWR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION			APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
							SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 11 00	SD-01 Preconstruction Submittals															
			Dig Safe Permit	1.10.1														
		01 14 00	SD-01 Preconstruction Submittals															
			List of Contact Personnel	1.3.4.1														
		01 30 00	SD-01 Preconstruction Submittals															
			View Location Map	1.4	G	RO												
			Progress and Completion	1.5	G	RO												
			Pictures															
			Preconstruction Video Recording	1.5.5.2														
			Preconstruction Digital	1.5.4.2														
			Photographs															
			Work To Be Performed By The	1.10	G	RO												
			Contractor															
			Eng Form 93	1.20	G	RO												
			Eng Form 93	1.20	G	RO												
			Eng Form 93	1.20	G	RO												
			SD-04 Samples															
			Color Boards	1.3	G	RO												
			SD-05 Design Data															
			Periodic Construction Video	1.5.5.3														
			Recordings															
			Periodic Construction Digital	1.5.4.3														
			Photographs															
			Final Completion Construction	1.5.5.4														
			Video Recordings															
			SD-07 Certificates															

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		01 30 00	Eng Form 93	1.20	G	RO												
			Eng Form 93	1.20	G	RO												
			Eng Form 93	1.20	G	RO												
			SD-11 Closeout Submittals															
			Final Completion Construction	1.5.4.4														
			Digital Photographs															
		01 32 01.00 10	SD-01 Preconstruction Submittals															
			Project Scheduler Qualifications	1.3	G	RO												
			Preliminary Project Schedule	3.7.1	G	RO												
			Initial Project Schedule	3.7.2	G	RO												
			Periodic Schedule Update	3.9.2	G	RO												
			Narrative Report	3.8.2	G	RO												
		01 33 00	SD-01 Preconstruction Submittals															
			Submittal Register	1.8	G	RO												
		01 33 29	SD-01 Preconstruction Submittals															
			Preliminary High Performance	1.5.3.1	S	RO												
			and Sustainable Building Checklist															
			Sustainability Action Plan	1.4.1	S	RO												
			Preliminary Sustainability	1.5.3.1	G	RO												
			eNotebook															
			SD-11 Closeout Submittals															
			Final High Performance and	1.5.3.1	S	RO												
			Sustainable Building Checklist															
			Final Sustainability eNotebook	1.5.3.1	G	RO												
			Amended Final Sustainability	1.5.3.1	G	RO												
			eNotebook															

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		01 33 29	Amended Final High	1.5.3.1	S	RO												
			Performance and Sustainable															
			Building Checklist															
			Third Party Certification	3.2	G	RO												
			Certificate, Assessment, or															
			Validation															
		01 35 26	SD-01 Preconstruction Submittals															
			APP - Construction	1.7.1	G	RO												
			Accident Prevention Plan (APP)	1.7	G	RO												
			SD-06 Test Reports															
			Monthly Exposure Reports	1.4														
			Notifications and Reports	1.12														
			Accident Reports	1.12.2	G	RO												
			LHE Inspection Reports	1.12.3														
			SD-07 Certificates															
			Crane Operators/Riggers	1.6.1.5														
			Standard Lift Plan	1.7.3.2	G	RO												
			Critical Lift Plan	1.7.3.3	G	RO												
			Activity Hazard Analysis (AHA)	1.8														
			Confined Space Entry Permit	1.9.1														
			Hot Work Permit	1.9.1														
			Certificate of Compliance	1.12.4														
			License Certificates	1.14														
			Radiography Operation Planning	1.14.1	G	RO												
			Work Sheet															

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		01 35 26	Portable Gauge Operations	1.14.1	G	RO												
			Planning Worksheet															
		01 45 00.00 10	SD-01 Preconstruction Submittals															
			Contractor Quality Control (CQC)	3.2	G	RO												
			Plan															
			SD-06 Test Reports															
			Verification Statement	3.9.2														
			SD-07 Certificates															
			QCR Report	3.10	G	RO												
		01 45 35	SD-07 Certificates															
			AISC Certified Steel Fabricator	2.1														
			AC472 Accreditation	2.1														
			Certificate of Compliance	2.1														
			Testing and Inspection Agency	1.4	G	AE												
			Qualifications															
			Special Inspector	1.6	G	AE												
		01 50 00	SD-01 Preconstruction Submittals															
			Construction Site Plan	1.4	G	RO												
			Traffic Control Plan	3.4.1	G	RO												
			Haul Road Plan	2.2.1	G	RO												
			Contractor Computer	1.7.1.4	G	RO												
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.7.6	G	RO												
			Cybersecurity Compliance															
			Statements															

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		01 50 00	SD-06 Test Reports																
			Backflow Preventer Tests	3.5															
			SD-07 Certificates																
			Backflow Tester	1.5.1															
			Backflow Preventers	1.5															
		01 57 19	SD-01 Preconstruction Submittals																
			Preconstruction Survey	1.5.1															
			Solid Waste Management Permit	1.10	G	RO													
			Regulatory Notifications	1.5.2	G	RO													
			Environmental Protection Plan	1.6	G	RO													
			Stormwater Pollution Prevention	3.2.1.1	G	RO													
			Plan																
			Stormwater Notice of Intent	3.2.1.2	G	RO													
			Dirt and Dust Control Plan	1.6.9.1	G	RO													
			Employee Training Records	1.5.5	G	RO													
			Environmental Manager	1.5.4	G	RO													
			Qualifications																
			SD-06 Test Reports																
			Inspection Reports	3.2.1.3															
			Monthly Solid Waste Disposal	1.10.1	G	RO													
			Report																
			SD-07 Certificates																
			Employee Training Records	1.5.5	G	RO													
			Certificate of Competency	1.5.5.1															
			Erosion and Sediment Control	1.5.5															
			Inspector																

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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 57 19	SD-11 Closeout Submittals															
			Stormwater Pollution Prevention	3.2.1.4	G	RO												
			Plan Compliance Notebook															
			Stormwater Notice of Termination	3.2.1.5	G	RO												
			Waste Determination	3.8.1	G	RO												
			Documentation															
			Disposal Documentation for	3.8.3.6	G	RO												
			Hazardous and Regulated Waste															
			Assembled Employee Training	1.5.5	G	RO												
			Records															
			Solid Waste Management Permit	1.10	G	RO												
			Project Solid Waste Disposal	3.8.2.1	G	RO												
			Documentation Report															
			Hazardous Waste/Debris	3.8.3.1	G	RO												
			Management															
			Regulatory Notifications	1.5.2	G	RO												
			Sales Documentation	3.8.2.1	G	RO												
		01 58 00	SD-02 Shop Drawings															
			Sign Legend Orders	1.4.1	G	RO												
		01 74 19	SD-01 Preconstruction Submittals															
			Construction Waste Management	1.6	S	RO												
			Plan															
			SD-06 Test Reports															
			Quarterly Reports	1.8.2														
			Annual Report	1.8.3														
			SD-11 Closeout Submittals															

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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)		(q)	(r)
		01 74 19	Final Construction Waste	1.9	S														
			Diversion Report																
		01 78 00	SD-03 Product Data																
			Warranty Management Plan	1.9.1															
			Warranty Tags	1.9.5															
			Spare Parts Data	1.7															
			SD-08 Manufacturer's Instructions																
			Instructions	1.9.1															
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.7	G	RO													
			Manuals																
			SD-11 Closeout Submittals																
			As-Built Drawings	3.1	G	RO													
			Record Drawings	3.3	G	RO													
			Record Model	2.2	G	RO													
			As-Built Record of Equipment	1.9.1															
			and Materials																
			As-Built Record of Equipment	3.6															
			and Materials																
			Final Approved Shop Drawings	3.4	G	RO													
			Construction Contract	3.5	G	RO													
			Specifications																
			Certification of EPA Designated	2.3	G	RO													
			Items																

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(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 78 00	Certification Of USDA Designated	2.4	G	RO												
			Items															
			Interim DD FORM 1354	3.9.1	G	RO												
			Checklist for DD FORM 1354	3.9.2	G	RO												
			High Performance and	3.9.2	G													
			Sustainable Building (HPSB)															
			Checklist															
		01 78 23	SD-10 Operation and Maintenance															
			Data															
			O&M Database	1.3	G	RO												
			Training Plan	3.1.1	G	RO												
			Training Outline	3.1.3	G	RO												
			Training Content	3.1.2	G	RO												
			SD-11 Closeout Submittals															
			Training Video Recording	3.1.4	G	RO												
			Validation of Training Completion	3.1.6	G	RO												
		01 78 24.00 10	SD-01 Preconstruction Submittals															
			Facility Data Project Execution	1.4.1														
			Plan															
			SD-10 Operation and Maintenance															
			Data															
			Facility Data Workbook,	3.1	G	RO												
			Construction Progress															
			Facility Document Set,	3.1	G	RO												
			Construction Progress															
			SD-11 Closeout Submittals															

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		01 78 24.00 10	Facility Data Workbook,	3.2	G	RO												
			Construction Final															
			Facility Document Set,	1.4.3	G	RO												
			Construction Final															
			Facility Document Set,	3.2	G	RO												
			Construction Final															
		01 91 00.15 10	SD-06 Test Reports															
			Building Envelope Inspection	1.10	G	DO												
			Checklists															
			Building Envelope Inspection	3.1.3.1.1	G	DO												
			Checklists															
			Building Envelope Inspection	3.1.3.1.2	G	DO												
			Checklists															
			Building Envelope Inspection	3.1.3.1.2	G	DO												
			Checklists															
			Building Envelope Inspection	3.1.3.1.2	G	DO												
			Checklists															
			Building Envelope Inspection	3.1.5.2	G	DO												
			Checklists															
			Pre-Functional Checklists	3.1.5.3	G	DO												
			Issues Log	1.9														
			Commissioning Report	3.2	G													
			Post-Construction Trend Log	3.3.1	G	DO												
			Report															
			SD-07 Certificates															
			Certificate of Readiness	1.10	G	DO												

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		01 91 00.15 10	SD-10 Operation and Maintenance															
			Data															
			Training Plan	3.1.6	G	RO												
			Training Attendance Rosters	3.1.6	G	RO												
			Maintenance and Service Life	3.1.7	G	DO												
			Plans															
		02 41 00	SD-01 Preconstruction Submittals															
			Demolition Plan	1.2.2	S	RO												
			Deconstruction Plan	1.2.2	S	RO												
			Existing Conditions	1.10														
			Scaled And Dimensioned	1.10.2														
			Drawings Of All Major Existing To															
			Remain Architectural And															
			Structural Elements															
			SD-07 Certificates															
			Notification	1.7	G	RO												
		02 82 00	SD-03 Product Data															
			Amended Water	1.2.2	G													
			Safety Data Sheets (SDS) for All	1.3.9	G													
			Materials															
			Encapsulants	2.1	G													
			Respirators	3.1.2.1	G													
			Local Exhaust Equipment	3.1.7	G													
			Pressure Differential Automatic	3.1.7	G													
			Recording Instrument															
			Vacuums	3.1.8	G													

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		02 82 00	SD-06 Test Reports																
			Air Sampling Results	1.5.5	G														
			Pressure Differential Recordings	1.5.6	G														
			for Local Exhaust System																
			Clearance Sampling	3.2	G														
			Clearance Sampling	3.2.12.4	G														
			Asbestos Disposal Quantity	3.3.3.2	G														
			Report																
			SD-07 Certificates																
			Employee Training	1.3.4	G														
			Notifications	1.3.5	G														
			Respiratory Protection Program	1.3.7	G														
			Asbestos Hazard Abatement Plan	1.3.10	G														
			Testing Laboratory	1.3.11	G														
			Landfill Approval	1.3.12	G														
			Delivery Tickets	1.3.12	G														
			Waste Shipment Records	1.3.12	G														
			Transporter Certification	1.3.13	G														
			Medical Certification	1.3.14	G														
			Private Qualified Person	1.5.1	G														
			Documentation																
			Designated Competent Person	1.5.2	G														
			Worker's License	1.5.3	G														
			Contractor's License	1.5.4	G														
			Federal, State or Local Citations	1.5.7	G														
			on Previous Projects																

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		02 82 00	Encapsulants	2.1	G													
			Equipment Used to Contain	3.1	G													
			Airborne Asbestos Fibers															
			Water Filtration Equipment	3.1.3.2	G													
			Vacuums	3.1.8	G													
			Ventilation Systems	3.1.8	G													
			SD-11 Closeout Submittals															
			Permits and Licenses	1.3.5	G													
			Notifications	1.3.5	G													
			Respirator Program Records	1.3.7.1	G													
			Rental Equipment	1.7.1	G													
		02 83 00	SD-01 Preconstruction Submittals															
			Competent Person	1.5.1.1	G													
			Training Certification	1.5.1.2	G													
			Medical Examinations	1.5.2.3	G													
			Lead, Cadmium, Chromium	1.5.2.7	G													
			Waste Management Plan															
			Licenses, Permits and	1.5.4	G													
			Notifications															
			Lead, Cadmium, Chromium	1.5.2.2	G													
			Compliance Plan															
			Lead, Cadmium, Chromium	3.1.1.5	G													
			Compliance Plan															
			Initial Sample Results	3.4.1.1	G													
			Written Evidence of TSD	3.5.2.1	G													
			Approval															

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		02 83 00	SD-03 Product Data																
			Respirators	1.6.1	G														
			Vacuum Filters	1.6.4	G														
			Negative Air Pressure System	1.6.7	G														
			Materials and Equipment	2.1	G														
			Expendable Supplies	2.1.1	G														
			Local Exhaust Equipment	3.1.1.4	G														
			Pressure Differential Automatic	3.1.1.4	G														
			Recording Instrument																
			Pressure Differential Log	3.1.1.5	G														
			SD-06 Test Reports																
			Sampling and Analysis	1.3.3	G														
			Sampling Results	1.5.1.5	G														
			Pressure Differential Recordings	1.5.3	G														
			For Local Exhaust System																
			SD-07 Certificates																
			Testing Laboratory	1.5.1.3	G														
			Third Party Consultant	1.5.1.4	G														
			Qualifications																
			Notification of the	3.1.1.1	G														
			Commencement of LBP Hazard																
			Abatement																
			Clearance Certification	3.5.1.1	G														
			SD-11 Closeout Submittals																
			Hazardous Waste Manifest	3.5.2.1	G														

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		02 83 00	Turn-In Documents or Weight	3.5.2.1	G													
			Tickets															
		03 30 00	SD-01 Preconstruction Submittals															
			Concrete Curing Plan	1.6.3.1														
			Quality Control Plan	1.6.5	G													
			Quality Control Personnel	1.6.6	G													
			Certifications															
			Quality Control Organizational	1.6.6														
			Chart															
			Laboratory Accreditation	1.6.8	G													
			Form Removal Schedule	1.6.2.1	G													
			Maturity Method Data	3.3.10														
			SD-02 Shop Drawings															
			Formwork	1.6.2.1														
			Reinforcing Steel	1.6.2.2	G	AE												
			SD-03 Product Data															
			Recycled Content for Steel	2.6.1	S													
			Reinforcement															
			Environmental Product	1.8.2	S													
			Declarations (EPD) for Portland															
			Cement, Slag, and Fly Ash															
			Semirigid Joint Filler	2.4.4														
			Joint Sealants	2.4.5														
			Expansion and Isolation Joint	2.4.3														
			Filler															
			Formwork Materials	2.1														

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		03 30 00	Recycled Aggregate Materials	2.3.3.3	S														
			Cementitious Materials	2.3.1	S														
			Vapor Retarder	2.4.6															
			Concrete Curing Materials	2.4.1															
			Reinforcement	2.6															
			Admixtures	2.3.4															
			Waterstops	2.2.2															
			Local/Regional Materials	1.8.1	S														
			Biodegradable Form Release	2.2.3	S														
			Agent																
			Pumping Concrete	1.6.3.2															
			Nonshrink Grout	2.4.2															
			SD-05 Design Data																
			Concrete Mix Design	1.6.1.2	S														
			Formwork Calculations	1.6.1.1															
			SD-06 Test Reports																
			Concrete Mix Design	1.6.1.2	S														
			Fly Ash	1.6.4.1															
			Pozzolan	1.6.4.1															
			Slag Cement	1.6.4.2															
			Aggregates	1.6.4.3															
			Tolerance Report	3.10.2.1															
			Compressive Strength Tests	3.13.2.3	G														
			Unit Weight of Structural	3.13.2.5															
			Concrete																
			Chloride Ion Concentration	3.13.2.6															

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		03 30 00	Air Content	3.13.2.4															
			Slump Tests	3.13.2.1															
			Water	2.3.2															
			SD-07 Certificates																
			Reinforcing Bars	2.6.1															
			Welder Qualifications	1.9															
			Silica Fume Manufacturer's Representative	1.6.3.3															
			Indoor air quality for concrete curing compound	1.6.3.4	S														
			Indoor air quality for waterproofing sealer	1.6.3.4	S														
			Indoor air quality for form release agent	1.6.3.4	S														
			Safety Data Sheets	1.6.3.5															
			Field Testing Technician and Testing Agency	1.6.6.2															
			SD-08 Manufacturer’s Instructions																
			Joint Sealants	2.4.5															
			Curing Compound	2.4.1															
		03 42 13.00 10	SD-01 Preconstruction Submittals																
			Quality Control Procedures	1.3.2.2															
			SD-02 Shop Drawings																
			Standard Precast Units	2.1.1	G														
			Custom-Made Precast Units	2.1.2	G														
			Special Finishes	3.2.4.3															

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		03 42 13.00 10	SD-03 Product Data															
			Standard Precast Units	2.1.1														
			Proprietary Precast Units	2.1.3														
			Embedded Items	3.1.3														
			Accessories	2.2.5														
			Environmental Product	2.2.1	S													
			Declarations (EPD) for Portland															
			Cement, Slag, and Fly Ash															
			SD-05 Design Data															
			Design Calculations	2.1.2	G													
			Concrete Mix Proportions	2.1.5.1														
			SD-06 Test Reports															
			Test Reports	1.3.2.4														
			SD-07 Certificates															
			Quality Control Procedures	1.3.2.2														
			SD-11 Closeout Submittals															
			Recycled content for fly ash and	2.2.1	S													
			pozzolan															
			Recycled content for Ground Iron	2.2.1	S													
			Blast-Furnace Slag															
			Recycled content for Silica Fume	2.2.1	S													
			Recycled content for Synthetic	2.2.1	S													
			Fiber Reinforcement															
			Recycled content for steel	2.2.1	S													
		03 45 00	SD-01 Preconstruction Submittals															
			Pre-Installation Meeting	1.12.12														

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		03 45 00	SD-02 Shop Drawings															
			Precast Drawings	1.12.9	G	AE												
			SD-03 Product Data															
			Cast-In Embedded Items And	2.3	G	RO												
			Connectors															
			Connection Devices	2.3.2	G	RO												
			Admixtures	2.2.5														
			Gasket	2.5														
			Thin Brick Veneer	2.6.1	G	AE												
			Environmental Product	2.2.1	S													
			Declarations (EPD) for Portland															
			Cement, Slag, and Fly Ash															
			SD-04 Samples															
			Concrete Wall Panel Surface	1.12.10	G	AE												
			Finish															
			Brick Color Chips	2.6.1	G	AE												
			Form Liner	2.6.1														
			Full Size Sample Wall Panel	1.12.10														
			SD-05 Design Data															
			Design Calculations	1.5.4	G	AE												
			Contractor-Furnished Mix Design	2.1.1	G	RO												
			Repair of Surface Defects	2.4.9	G													
			SD-06 Test Reports															
			Strength Tests	1.11.2	G	RO												
			Slump	1.11.2														
			Air Content	1.11.2														

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		03 45 00	Test for Concrete Materials	1.11.1														
			Water	2.2.6														
			Testing Precast Units for Strength	3.6.4														
			SD-07 Certificates															
			Manufacturer's Qualifications	1.4	G	RO												
			Fabricator Quality Certifications	1.8.1														
			Erector Certification	1.9														
			Erector's Post Audit Declaration	1.10														
			SD-08 Manufacturer’s Instructions															
			Installation	3.3	G	RO												
			Cleaning	3.8	G	RO												
			Thin Brick	2.6.1														
			SD-11 Closeout Submittals															
			Batch Ticket Information	1.12.11	G	RO												
			Recycled Content for Fly Ash and	2.2.1	S													
			Pozzolan															
			Recycled Content for Ground Iron	2.2.1	S													
			Blast-Furnace Slag															
			Recycled Content for Silica Fume	2.2.1	S													
			Recycled content for steel	2.2.1	S													
		04 03 00	SD-01 Preconstruction Submittals															
			Quality Control Plan	1.5.1	G													
			Project Training Program	1.5.1	G													
			Qualifications	1.5.2	G													
			SD-02 Shop Drawings															
			Photographic Documentation	1.5.5														

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		04 03 00	SD-03 Product Data																
			Qualifications	1.5.2															
			Cleaning and Restoration	1.5.6	G														
			Methods																
			Cleaning Materials	2.1	G														
			Repair Materials	2.2	G														
			Replacement Mortar	2.2.2.2	G														
			Mortar Mix	2.4	G														
			SD-04 Samples																
			Mock-ups	1.5.7.1	G														
			Repair Materials	2.2	G														
			SD-06 Test Reports																
			Testing and Matching	2.2.2.1															
			SD-07 Certificates																
			Repair Materials	2.2															
		04 03 10	SD-01 Preconstruction Submittals																
			Quality Control Plan	1.5.1	G														
			Project Training Program	1.5.1	G														
			Qualifications	1.5.2	G														
			SD-02 Shop Drawings																
			Photographic Documentation	1.5.4															
			SD-03 Product Data																
			Qualifications	1.5.2															
			Cast Stone	1.5.2.4	G														
			Cast Stone	1.5.2.5	G														
			Repair Materials	1.2	G														

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		04 03 10	Repair Materials	3.6.1	G													
			SD-04 Samples															
			Mock-ups	1.5.7.2.1	G													
			Cast Stone	1.5.2.4	G													
			Cast Stone	1.5.2.5	G													
			Repair Materials	1.2	G													
			Repair Materials	3.6.1	G													
			SD-06 Test Reports															
			Testing	2.2.5														
			Matching	2.5														
			SD-07 Certificates															
			Repair Materials	1.2														
			Repair Materials	3.6.1														
		04 20 00	SD-02 Shop Drawings															
			Cut CMU	3.3.2.1	G	RO												
			Detail Drawings	3.4.1.1	G													
			Stone and Custom Cast Stone	2.2.1.2	G													
			Cladding Assembly Drawings															
			SD-03 Product Data															
			Hot Weather Procedures	1.5.1	G	RO												
			Cold Weather Procedures	1.5.2	G	AE												
			WARNING: Text in tags exceeds															
			the maximum length of 300															
			characters															
			Cement	2.2.2.2.1	G	RO												
			Cementitious Materials	2.4.1.1	G	RO												

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		04 20 00	Recycled Content of	1.4.3	S	RO												
			Cementitious Materials															
			Insulation	2.6.6	G	RO												
			SD-04 Samples															
			Concrete Masonry Units (CMU)	2.2.2.2	G	RO												
			Custom Cast Stone Units	2.2.4	G	RO												
			Admixtures for Masonry Mortar	2.4.1.4	G	RO												
			Bar Positioners	2.6.2	G	RO												
			Bar Positioners	2.6.2.3	G	RO												
			Joint Reinforcement	2.6.3	G	RO												
			SD-05 Design Data															
			Masonry Compressive Strength	2.1.2	G	RO												
			Fire-Rated Concrete Masonry	2.2.2.3														
			Units															
			Bracing Calculations	3.2.7	G	RO												
			SD-06 Test Reports															
			Fire-Rated Concrete Masonry	2.2.2.3														
			Units															
			Field Testing of Mortar	3.6.1.1														
			Field Testing of Grout	3.6.1.2														
			Prism Tests	3.6.1.3														
			SD-07 Certificates															
			Special Masonry Inspector	1.3.1														
			Qualifications															
			Concrete Masonry Units (CMU)	2.2.2.2														
			Cementitious Materials	2.4.1.1														

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		04 20 00	Admixtures for Masonry Mortar	2.4.1.4															
			Admixtures for Grout	2.4.2.2															
			Bar Positioners	2.6.2															
			Bar Positioners	2.6.2.3															
			Joint Reinforcement	2.6.3															
			Custom Cast Stone Units	2.2.4															
			SD-08 Manufacturer's Instructions																
			Admixtures for Masonry Mortar	2.4.1.4															
			Admixtures for Grout	2.4.2.2															
			SD-10 Operation and Maintenance																
			Data																
			Take-Back Program	3.8															
			SD-11 Closeout Submittals																
			Recycled Content	2.2.2.2.2	S														
		05 12 00	SD-01 Preconstruction Submittals																
			Erection and Erection Bracing	1.4.1.1	G	AE													
			Drawings																
			SD-02 Shop Drawings																
			Fabrication Drawings	1.4.2	G	AE													
			SD-03 Product Data																
			Welding Electrodes and Rods	2.4.1															
			Direct Tension Indicator Washers	2.3.1.1															
			Non-Shrink Grout	2.4.2															
			Tension Control Bolts	2.3.2															
			Recycled Content for Structural	2.2.1	S														
			Steel																

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		05 12 00	Recycled Content for Structural	2.2.2	S													
			Steel Tubing															
			Recycled Content for Steel Pipe	2.2.3	S													
			Environmental Product	2.2.1	S													
			Declaration (EPD) for Steel															
			Environmental Product	2.2.2	S													
			Declaration (EPD) for Steel															
			Environmental Product	2.2.3	S													
			Declaration (EPD) for Steel															
			SD-05 Design Data															
			Design Calculations for Steel	1.4.3	G	AE												
			Connections															
			SD-06 Test Reports															
			Bolts, Nuts, and Washers	2.3														
			Weld Inspection Reports	3.6.1.2														
			Direct Tension Indicator Washer	3.6.2.1														
			Inspection Reports															
			Bolt Testing Reports	3.6.3.1														
			Embrittlement Test Reports	3.6.4														
			SD-07 Certificates															
			Steel	2.2														
			Bolts, Nuts, and Washers	2.3														
			Galvanizing	2.5														
			AISC Structural Steel Fabricator	1.3														
			Quality Certification															

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		05 12 00	AISC Structural Steel Erector	1.3															
			Quality Certification																
			Welding Procedures and	1.4.4.1															
			Qualifications																
			Welding Electrodes and Rods	2.4.1															
			Certified Welding Inspector	3.6.1.1															
			NDT Technician	3.6.1.2															
			Welding Procedure Specifications	3.4															
			(WPS)																
		05 30 00	SD-02 Shop Drawings																
			Fabrication Drawings	1.3.5	G	AE													
			SD-03 Product Data																
			Accessories	2.2															
			Deck Units	2.1															
			Mechanical Fasteners	2.2.11															
			Welding Equipment	1.3.3															
			Welding Rods and Accessories	1.3.3															
			Recycled Content of Steel	2.1	S														
			Products																
			Environmental Product	2.1	S														
			Declaration (EPD) for Steel																
			SD-07 Certificates																
			Powder-Actuated Tool Operator	1.3.2															
			Welder Qualifications	1.3.3															
			Welding Procedures	1.3.3															
			Fire Safety	1.3.4.1															

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		05 30 00	Manufacturer's Certificate	1.3.1														
		05 50 13	SD-02 Shop Drawings															
			Cover Plates and Frames	2.4	G	RO												
			Floor Gratings	2.5	G	RO												
			Bollards/Pipe Guards	2.6	G	RO												
			SD-03 Product Data															
			Cover Plates and Frames	2.4	G	RO												
			Floor Gratings	2.5	G													
			Roof Hatches	2.8	G													
			Floor Doors	2.9	G													
			Recycled Content	2.1	S	RO												
			Certificates of Compliance	2.1	G	RO												
			Certified Mill	2.2	G	RO												
		05 51 00	SD-02 Shop Drawings															
			Iron and Steel Hardware	2.1	G	AE												
			Steel Shapes, Plates, Bars, and Strips	2.1	G	AE												
			Metal Stair System	2.2.1	G	AE												
			SD-03 Product Data															
			Recycled Content for Steel	2.4.1	S													
			Environmental Product Declaration (EPD) for Steel	2.4.1	S													
			Structural-Steel Plates, Shapes, and Bars	2.4.1	G	AE												
			Structural-Steel Tubing	2.4.2	G	AE												

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		05 51 00	Hot-Rolled Carbon Steel Sheets	2.4.5	G	AE												
			and Strips															
			Cold-Finished Steel Bars	2.4.4	G	AE												
			Hot-Rolled Carbon Steel Bars	2.4.3	G	AE												
			Cold-Rolled Carbon Steel Sheets	2.4.6	G	AE												
			Galvanized Carbon Steel Sheets	2.4.7	G	AE												
			Cold-Drawn Steel Tubing	2.4.8	G	AE												
			Concrete Inserts	2.3.3	G	AE												
			Masonry Anchorage Devices	2.3.4	G	AE												
			Steel Pan Stairs	2.2.2	G	AE												
			Steel Stairs	2.3.1	G	AE												
			SD-05 Design Data															
			Member And Connection	1.3.2														
			Calculation															
			SD-07 Certificates															
			Welding Procedures	1.3.1	G	AE												
			Welder Qualification	1.3.1	G	AE												
			Certification Letter from	1.3.3.1	G													
			Contractor's Professional Engineer															
			SD-08 Manufacturer’s Instructions															
			Structural-Steel Plates, Shapes,	2.4.1	G	AE												
			and Bars															
			Structural-Steel Tubing	2.4.2	G	AE												
			Hot-Rolled Carbon Steel Sheets	2.4.5	G	AE												
			and Strips															
			Cold-Finished Steel Bars	2.4.4	G	AE												

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		05 51 00	Hot-Rolled Carbon Steel Bars	2.4.3	G	AE													
			Cold-Rolled Carbon Steel Sheets	2.4.6	G	AE													
			Galvanized Carbon Steel Sheets	2.4.7	G	AE													
			Cold-Drawn Steel Tubing	2.4.8	G	AE													
			Masonry Anchorage Devices	2.3.4	G	AE													
		05 51 33	SD-02 Shop Drawings																
			Ladders	2.3															
			SD-03 Product Data																
			Ladders	2.3															
			Ladder Safety Devices	2.3.2															
			SD-07 Certificates																
			Fabricator Certification for Ladder	1.3															
			Assembly																
			Fabricator Certification for Ships	1.3															
			Ladder Assembly																
		05 52 00	SD-02 Shop Drawings																
			Fabrication Drawings	1.2.1	G	AE													
			Iron and Steel Hardware	3.2	G	AE													
			Steel Shapes, Plates, Bars and	3.2	G	AE													
			Strips																
			SD-03 Product Data																
			Environmental Product	2.1.2	S														
			Declaration (EPD) for Steel																
			Structural-Steel Plates, Shapes,	2.2.1	G	AE													
			and Bars																
			Structural-Steel Tubing	2.2.2	G	AE													

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		05 52 00	Cold-Finished Steel Bars	2.2.4	G	AE												
			Hot-Rolled Carbon Steel Bars	2.2.3	G	AE												
			Cold-Drawn Steel Tubing	2.2.5	G	AE												
			Concrete Inserts	2.2.7	G	AE												
			Masonry Anchorage Devices	2.2.8	G	AE												
			Protective Coating	2.1.3	G	AE												
			Steel Railings and Handrails	2.2.10	G	AE												
			Aluminum Railings and Handrails	2.2.11	G	AE												
			Anchorage and Fastening	1.2.1	G	AE												
			Systems															
			Recycled Content for Steel	2.1.2	S													
			SD-05 Design Data															
			Member And Connection	1.4.3														
			Calculation															
			SD-07 Certificates															
			Welding Procedures	1.4.1	G	AE												
			Welder Qualification	1.4.2	G	AE												
			Certification Letter from	1.4.4.1	G													
			Contractor's Professional Engineer															
			SD-08 Manufacturer’s Instructions															
			Installation Instructions	3.2														
		05 72 00	SD-01 Preconstruction Submittals															
			Existing Conditions	1.3.5	G													
			Pre-Installation Meeting	1.3.7														
			SD-02 Shop Drawings															
			Ornamental Metal Items	2.2	G	AE												

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		05 72 00	Installation Drawings	3.1	G	AE												
			Shop and Field Connections	3.1	G													
			Construction Details	3.1	G													
			SD-03 Product Data															
			Materials	1.3.3	G													
			Materials	1.4	G													
			Ornamental Metal Items	2.2	G													
			Aluminum and stainless steel	1.3.1														
			finishes															
			Grout	2.1.8														
			Aluminum-Alloy Extrusions	2.2.1.1.1														
			Aluminum-Alloy Extrusions	2.2.1.1.1														
			Aluminum-Alloy Castings	2.2.1.1.1														
			SD-04 Samples															
			Manufacturer's Standard Color	1.3.2	G	AE												
			Charts															
			Shop Paint	1.3.2	G													
			Finish Paint	1.3.2	G													
			Anchorage Devices and	1.3.1	G													
			Fasteners															
			section of top rail	2.1.2	G	AE												
			Glass Railing Glass	2.1.6	G	AE												
			fittings	2.1.9														
			fittings	2.1.9														
			brackets	2.1.3	G	AE												
			Glass Railing assembly	3.2.3	G	AE												

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		05 72 00	Metal Wall Cladding	1.3.1	G	AE													
			SD-06 Test Reports																
			Welding Tests	1.3.4	G														
			Glass Railing Product Test Reports	3.3															
			Glass Railing Preconstruction Test Reports	3.3															
			Glass Railing Evaluation Reports	3.3															
			SD-07 Certificates																
			Welding Procedures	1.3.4															
			Ornamental Metal Items	2.2	G														
			Welder Qualifications	1.3.4															
			Mill Certificates	2.1.4															
			Glass Railing Qualification Data	1.3.6															
			Metal Wall Cladding Fabricator and Installer Qualifications	1.3.6															
			SD-08 Manufacturer’s Instructions																
			Protection	3.5															
			Glass Railing Delegated-Design Submittal	1.4															
		06 10 00	SD-02 Shop Drawings																
			Nailing Strips	2.2.1	G														
			SD-03 Product Data																
			Fire-retardant Treatment	1.8															
			SD-07 Certificates																
			Certificates of Grade	1.11.1															

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		06 10 00	Certified Sustainably Harvested	2.1.1	S													
			Virgin Lumber															
			Certified Sustainably Harvested	2.2.1	S													
			Framing Lumber															
			Certified Sustainably Harvested	2.3.1.1	S													
			Plywood for Other Uses															
			Preservative Treatment	1.7														
		06 20 00	SD-02 Shop Drawings															
			Detail Drawings Indicating All	1.3	G	AE												
			Wood Assemblies															
			SD-03 Product Data															
			Wood Products	2.2	G	AE												
			Wood Products	2.2	G	AE												
			Countertops	2.4	G	AE												
			Treated Wood Products	1.4	G	AE												
			Soffits	3.5	G	AE												
			Fascias and Trim	2.3	G	AE												
			Hardware and Accessories	2.8	G	AE												
			Recycled Content for	2.2.8	S													
			MDF/Particleboard															
			SD-04 Samples															
			Samples	1.5	G	AE												
			SD-07 Certificates															
			Certificates of Grade	1.7.1.1	G	AE												
			Certified Sustainably Harvested	2.2.3	S													
			Wood for Trim and Frames															

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		06 20 00	Certified Sustainably Harvested	2.2.5	S														
			Softwood Plywood																
			Certified Sustainably Harvested	2.2.7	S														
			Hardboard																
			Indoor Air Quality for Hardwood	2.2.6	S														
			Plywood																
			Indoor Air Quality for MDF and	2.2.8	S														
			Particleboard																
			Indoor Air Quality for Adhesives	2.9.1.2	S														
		06 41 16.00 10	SD-02 Shop Drawings																
			Shop Drawings	1.5.2	G														
			Shop Drawings	2.10	G														
			Installation	3.1	G														
			SD-03 Product Data																
			Wood Materials	2.1															
			Wood Finishes	2.8															
			Finish Schedule	2.10.7.3															
			Certification	1.5.3	S														
			SD-04 Samples																
			Plastic Laminates	2.3	G														
			Cabinet Hardware	2.5	G														
			SD-07 Certificates																
			Quality Assurance	1.5															
			Laminate Clad Casework	2.8															
			Laminate Clad Casework	3.1															
			SD-11 Closeout Submittals																

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		06 41 16.00 10	LEED Documentation	1.3	S													
		06 61 16	SD-02 Shop Drawings															
			Detail Fabrication Drawings	1.4.2	G	AE												
			Installation	3.1	G	AE												
			SD-03 Product Data															
			Solid Polymer	2.1.1	G	AE												
			Indoor air quality for solid surface	2.2.2	S													
			seam and sealant products															
			SD-04 Samples															
			Material	2.1	G	AE												
			Counter Tops	2.3.5	G													
			Window Sills	1.2	G	AE												
			SD-06 Test Reports															
			Test Report Results	2.1.1														
			SD-07 Certificates															
			Qualifications	1.4.1														
			SD-10 Operation and Maintenance															
			Data															
			Solid Polymer	2.1.1	G	AE												
		07 13 53	SD-03 Product Data															
			Manufacturer's Standard Details	1.3	G													
			Elastomeric Waterproofing Sheet	2.1	G													
			Material															
			Protection Board	2.3	G													
			Primers, Adhesives, and Mastics	1.4	G													
			Primers, Adhesives, and Mastics	2.1	G													

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		07 13 53	SD-06 Test Reports																
			Elastomeric Waterproofing Sheet	2.1	G														
			Material																
			Field Quality Control	3.5	G														
			Protective Covering	3.6	G														
			SD-07 Certificates																
			Elastomeric Waterproofing Sheet	2.1															
			Material																
			Primers, Adhesives, and Mastics	1.4	G														
			Primers, Adhesives, and Mastics	2.1	G														
			Protective Coverings	1.4	G														
			Special Warranties	1.8	G														
			Special Warranties	1.8	G														
			SD-08 Manufacturer’s Instructions																
			Primers, Adhesives, and Mastics	1.4	G														
			Primers, Adhesives, and Mastics	2.1	G														
			SD-11 Closeout Submittals																
			Warranty	1.8.2	G														
		07 14 00	SD-03 Product Data																
			Fluid-Applied Membrane	2.1															
			Membrane Primer	2.2															
			Elastomeric Sheet	2.8															
			Flexible Foam-Backed	2.10															
			Elastomeric Sheet																
			Solvent	3.3															
			Moisture Meter	3.4.1															

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		07 14 00	Protection Board	2.11															
			Bond Breaker	2.7															
			SD-11 Closeout Submittals																
			Warranty	1.6															
			Information Card	3.6															
			Instructions To Government	3.5															
			Personnel																
		07 21 13	SD-03 Product Data																
			Manufacturer's Standard Details	1.3	G	AE													
			Block or Board Insulation	2.1	G	AE													
			Pressure Sensitive Tape	2.2	G														
			Protection Board or Coatings	1.4	G														
			Accessories	2.4	G	AE													
			Recycled Content for Block or	2.1.4	S														
			Board Insulation																
			SD-07 Certificates																
			Block or Board Insulation	2.1	G	AE													
			Protection Board or Coating	2.3	G														
			Special Warranties	1.8	G	AE													
			Special Warranties	1.8	G	AE													
			Indoor Air Quality For Block Or	2.1.5	S														
			Board Insulation																
			Indoor Air Quality for Adhesives	2.4.1	S														
			Energy Star Certificate for	1.5.2	S														
			Extruded Cellular Polystyrene																
			Insulation																

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		07 21 13	SD-08 Manufacturer's Instructions															
			Block or Board Insulation	2.1														
			Adhesive	2.4.1														
		07 21 16	SD-03 Product Data															
			Blanket Insulation	2.1														
			Recycled Content for Insulation	2.1.2	S													
			Materials															
			Pressure Sensitive Tape	2.5														
			Accessories	2.6														
			SD-07 Certificates															
			Indoor Air Quality for Insulation	2.1.4	S													
			Materials															
			Indoor Air Quality for Adhesives	2.6.1	S													
			SD-08 Manufacturer's Instructions															
			Insulation	3.3.1														
		07 22 00	SD-02 Shop Drawings															
			Insulation Board Layout	1.3	G													
			Verification of Existing Conditions	1.3	G													
			SD-03 Product Data															
			Insulation	2.1														
			Cover Board	1.4	G													
			Fasteners	2.5	G													
			Moisture Control	2.4	G													
			Combined Air Barrier and Vapor	2.4.1	G													
			Retarder															

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		07 22 00	Combined Air Barrier and Vapor	2.4.1	G														
			Retarder																
			Recycled Content For Insulation	2.1.2	S														
			SD-06 Test Reports																
			Flame Spread Rating	1.7.1	G														
			SD-07 Certificates																
			Installer Qualifications	1.6	G														
			Certificates Of Compliance For	1.6	G														
			Felt Materials																
			SD-08 Manufacturer’s Instructions																
			Fasteners	2.5	G														
			Insulation	2.1	G														
		07 27 10.00 10	SD-02 Shop Drawings																
			Air Barrier System Shop	2.1	G	RO													
			Drawings																
			SD-03 Product Data																
			Air Barrier System Product Data	2.1	G	RO													
			SD-04 Samples																
			Material Samples For Air Barrier	2.1	G	RO													
			System																
			SD-05 Design Data																
			Design Data And Calculations	1.8	G	RO													
			For The Air Barrier System																
			SD-06 Test Reports																
			Design Review Report	1.8	G	RO													
			Testing and Inspection	3.1.2	G	RO													

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		07 27 10.00 10	SD-07 Certificates																
			Air Barrier Inspector	1.7	G	RO													
		07 27 19.01	SD-01 Preconstruction Submittals																
			Qualifications of Manufacturer	1.7.1	G														
			Qualifications of Installer	1.7.2	G														
			SD-02 Shop Drawings																
			Self-adhering Air Barrier	1.4	G														
			SD-03 Product Data																
			Self-adhering Air Barrier	1.4	G														
			Primers, Adhesives, and Mastics	2.2	G														
			Safety Data Sheets	1.4.1	G														
			SD-04 Samples																
			Self-adhering Air Barrier	1.4	G														
			SD-06 Test Reports																
			Field Peel Adhesion Test	1.6	G														
			Flame Propagation of Wall	1.4.2	G														
			Assemblies																
			Flame Spread and Smoke	1.4.2	G														
			Developed Index Ratings																
			SD-07 Certificates																
			Self-adhering Air Barrier	1.4	G														
			SD-08 Manufacturer’s Instructions																
			Self-adhering Air Barrier	1.4	G														
			Primers, Adhesives, and Mastics	2.2	G														
		07 27 36	SD-01 Preconstruction Submittals																
			Qualification of Manufacturer	1.10.1	G	RO													

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		07 27 36	Qualification of Installer	1.10.2	G	RO												
			Quality Control Plan	1.11	G	RO												
			Safety Plan	1.11	G	RO												
			Fire Prevention Plan	1.9.1	G	RO												
			Respirator Plan	1.9.2	G	RO												
			SD-02 Shop Drawings															
			Spray Foam Air Barrier	1.5														
			Foam Air Barrier System	1.11	G	RO												
			Fire-Rated Assemblies	1.5.1	G	RO												
			SD-03 Product Data															
			Closed Cell	2.1.2	G	RO												
			Transition Membrane	2.2	G	RO												
			Primers, Adhesives, and Mastics	2.3	G	RO												
			Sealants	2.5	G	RO												
			Safety Data Sheets	1.5.2	G	RO												
			Thermal Barrier Materials	2.1.1	G	RO												
			Accessories	2.1.7	G	RO												
			Recycled Content for Closed Cell	2.1.2	S													
			Spray Foam Air Barrier															
			SD-04 Samples															
			Spray Foam Air Barrier	1.5	G	RO												
			SD-06 Test Reports															
			Field Peel Adhesion Test	1.5.4	G	RO												
			Thermographic Test	3.4.5.1	G	RO												
			Air Barrier Test	1.8	G	RO												
			Primers	1.5.3	G	RO												

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		07 27 36	Fire-Ratings Of Thermal Barrier Materials	1.5.4	G	RO												
			Flame Spread And Smoke Developed Index Ratings Of SPF Products	1.5.4	G	RO												
			Flame Propagation Of Wall Assemblies	1.5.4	G	RO												
			Site Inspections	3.4.1	G	RO												
			SD-07 Certificates															
			Closed cell	2.1.2	G	RO												
			Transition Membrane	2.2	G	RO												
			Indoor Air Quality for Spray Foam Air Barrier	2.1.6	S													
			SD-08 Manufacturer’s Instructions															
			SPF Handling, Storage, and Spray Procedures	1.6.1	G	RO												
			Substrate Preparation	3.2.1	G	RO												
			Thermal Barrier	1.5.1	G	RO												
			Transition Membrane	2.2	G	RO												
			Primers, Adhesives, and Mastics	2.3	G	RO												
			SD-09 Manufacturer’s Field Reports															
			Core Samples	1.11														
			Daily Work Record	3.3.3														
			Visual Inspection and Thermal Scanning	3.4.5														

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		07 52 00	SD-02 Shop Drawings																
			Roof Plan	1.4.6	G														
			Field Inspection and Existing	1.4.6															
			Conditions Report																
			SD-03 Product Data																
			Modified Bitumen Sheets	2.2	G														
			Heat Island Reduction	2.1.1	S														
			Cold-Applied Membrane	2.4	G														
			Adhesive																
			Primer	2.6	G														
			Modified Bitumen Roof Cement	2.7	G														
			Pre-Manufactured Accessories	2.10															
			Fasteners And Plates	2.9	G														
			Warranty	1.8	G														
			SD-05 Design Data																
			Wind Uplift Calculations	1.4.5	G														
			SD-07 Certificates																
			Qualification of Manufacturer	1.4.1															
			Qualification of Applicator	1.4.2															
			Qualification of Engineer of	1.4.3															
			Record																
			Wind Uplift Resistance	1.4.5	G														
			Fire Resistance	1.4.4	G														
			SD-08 Manufacturer's Instructions																
			Modified Bitumen Membrane	3.3.5	G														
			Application																

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		07 52 00	Flashing	3.3.6	G													
			Cold Adhesive Applied Modified	3.3.3.1	G													
			Bitumen Membrane															
			Primer	2.6														
			Fasteners	2.9.1														
			Cold Weather Installation	1.6	G													
			SD-11 Closeout Submittals															
			Warranty	1.8														
			Information Card	3.8														
			Instructions To Government	3.7														
			Personnel															
		07 56 00	SD-03 Product Data															
			Construction Grade Caulk	2.2.1														
			Basecoat and Intermediate	2.2.2														
			Coatings															
			Finish Coat	2.2.3														
			Reinforcing Fabric	2.2.5														
			Cant Strips	2.2.7														
			Corrosion Resistant Primer	2.2.8														
			Traffic Coat	3.7														
			Biodegradable Cleaner	2.2.9														
			SD-07 Certificates															
			Manufacturer Qualifications	1.5.1														
			Installer Qualifications	1.5.2														
			Qualification of Inspector	1.5.7														
			SD-08 Manufacturer’s Instructions															

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		07 56 00	Manufacturer's written	1.5.1															
			instructions																
			SD-09 Manufacturer’s Field																
			Reports																
			field tests	3.10															
			Manufacturer's Inspection	3.10.1.1															
			SD-11 Closeout Submittals																
			Information Card	3.11															
		07 60 00	SD-02 Shop Drawings																
			Exposed Sheet Metal	2.2.1	G														
			Gravel Stops and fascia	2.2.1	G														
			Splash Pans	3.1.17	G														
			Flashing for Roof Drains	3.1.15	G														
			Base Flashing	3.1.10	G														
			Counterflashing	3.1.11	G														
			Flashing at Roof Penetrations	3.1.18	G														
			and Equipment Supports																
			Reglets	2.2.10	G														
			Scuppers	3.1.16	G														
			Copings	3.1.20	G														
			Recycled Content	2.1	S														
			SD-03 Product Data																
			Cool Roof	2.2.7	G														
			SD-04 Samples																
			Finish Samples	1.4.2	G														
			SD-08 Manufacturer’s Instructions																

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		07 60 00	Instructions for Installation	1.4.3	G														
			Quality Control Plan	3.5	G														
			SD-10 Operation and Maintenance																
			Data																
			Cleaning and Maintenance	1.4.3	G														
		07 62 13	SD-02 Shop Drawings																
			Sheet Metal	2.1.6															
			SD-03 Product Data																
			Contractor Quality Control	3.11															
			SD-04 Samples																
			Materials	2.1															
		07 81 00	SD-03 Product Data																
			Fireproofing Material	3.3	G	AE													
			SD-04 Samples																
			Spray-Applied Fireproofing	2.1	G	AE													
			SD-06 Test Reports																
			Fire Resistance Rating	1.2.2	G	AE													
			Field Tests	3.6	G	AE													
			Evaluation Reports	1.2.3	G	AE													
			SD-07 Certificates																
			Installer Qualifications	1.4.1	G	AE													
			Surface Preparation Report	3.1	G	AE													
			Manufacturer's Inspection Report	3.5.2	G	AE													
		07 84 00	SD-02 Shop Drawings																
			Firestopping System	2.1	G	AE													
			SD-03 Product Data																

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		07 84 00	Firestopping Materials	2.2	G AE													
			SD-06 Test Reports															
			Inspection	3.3	G													
			SD-07 Certificates															
			Inspector Qualifications	1.5.2														
			Firestopping Materials	2.2														
			Installer Qualifications	1.5.1	G													
			Indoor Air Quality of Materials	2.2.4	S													
		07 92 00	SD-03 Product Data															
			Sealants	2.1	G AE													
			Primers	2.2	G AE													
			Bond Breakers	2.3	G AE													
			Backstops	2.4	G AE													
			Expansion Joints	2.1.3	G AE													
			Field Adhesion	3.1	G AE													
			Compatibility Testing	1.7.5														
			Adhesion Testing	1.7.5	G AE													
			SD-07 Certificates															
			Indoor Air Quality For Interior Sealants	2.1.1	S													
			Indoor Air Quality For Interior Floor Joint Sealants	2.1.3	S													
			Indoor Air Quality For Interior Acoustical Sealants	2.1.4	S													
		08 01 52	SD-02 Shop Drawings															
			Shop Drawings	1.5	G													

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		08 01 52	SD-03 Product Data															
			Hardware	2.4	G													
			Weatherstripping	3.2.10	G													
			Qualifications	1.5	G													
			SD-04 Samples															
			Moldings	3.2.10														
			SD-07 Certificates															
			Indoor Air Quality For	1.7	S													
			Field-Applied Paints And Coatings															
			Indoor Air Quality for	1.7	S													
			Field-applied Adhesives and															
			Sealants															
			SD-11 Closeout Submittals															
			LEED Documentation	1.3														
		08 11 13	SD-02 Shop Drawings															
			Doors	2.1	G													
			Doors	2.1	G													
			Frames	2.5	G													
			Frames	2.5	G													
			Accessories	2.3														
			SD-03 Product Data															
			Doors	2.1	G													
			Recycled Content for Steel Door	2.1	S													
			Product															
			Frames	2.5	G													

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		08 11 13	Recycled Content for Steel Frame Product	2.5	S													
			Accessories	2.3														
		08 11 16	SD-02 Shop Drawings															
			Door and Frame Assembly	1.5.1	G													
			SD-03 Product Data															
			Door and Frame Assembly	1.5.1	G													
			Recycled Content of Aluminum Material	2.5.3	S													
			SD-04 Samples															
			Finish Samples	1.5.2	G													
			SD-05 Design Data															
			Calculations	1.2.1	G													
			Air Infiltration	1.2.2	G													
			Water Penetration	1.2.3	G													
			SD-08 Manufacturer’s Instructions															
			Door and Frame Assembly	1.5.1	G													
			Adjustments, Cleaning, and Maintenance	1.5.3	G													
			NFRC Project Label Certificates for Fenestration	1.2.4	G													
		08 14 00	SD-02 Shop Drawings															
			Doors	2.1	G													
			SD-03 Product Data															
			Doors	2.1	G													
			Recycled Content for Door Cores	2.1.2	S													

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		08 14 00	Accessories	2.2															
			Water-resistant Sealer	2.3.7															
			Warranty	1.5															
			Sound Transmission Class	2.1.3	G														
			Rating																
			Fire Resistance Rating	2.1.4	G														
			SD-04 Samples																
			Doors	2.1															
			Door Finish Colors	2.3.6.2	G														
			SD-06 Test Reports																
			Cycle-Slam	2.4															
			Hinge Loading Resistance	2.4															
			SD-07 Certificates																
			Certificates of Grade	1.3.1															
			Certified Sustainably Harvested	2.1.1.2	S														
			Stile and Rail Wood Doors																
			Certified Sustainably Harvested	2.1.2	S														
			Flush Wood Doors																
			Indoor Air Quality for	2.1.2	S														
			Particleboard and Agrifiber Door																
			Cores																
			SD-11 Closeout Submittals																
			Warranty	1.5															
		08 31 00	SD-02 Shop Drawings																
			Access Doors And Panels	1.3	G	AE													
			SD-03 Product Data																

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		08 31 00	Access Doors And Panels	1.3	G	AE												
			Hardware	1.3.2	G	AE												
			Accessories	2.2.8	G													
			Power Transfer Components	1.3.1	G													
			Recycled Content	2.1	S													
			SD-04 Samples															
			Finishes	2.5	G													
			SD-06 Test Reports															
			Fire-rating(s) of Assemblies	1.3.1	G													
			Acoustical Ratings of Assemblies	1.3.1	G													
		08 41 13	SD-01 Preconstruction Submittals															
			Sample Warranty	1.2.1	G													
			List of Product Installations	1.2.1	G													
			SD-02 Shop Drawings															
			Installation Drawings	3.3	G													
			Fabrication Drawings	2.5	G													
			SD-03 Product Data															
			Manufacturer's Catalog Data	1.2.1	G													
			Finish	2.1.2	G													
			Finish	2.2.3	G													
			Finish	2.3.2	G													
			Finish	2.4.2	G													
			Recycled Content of Aluminum	2.1.1.2	S													
			Material															
			Recycled Content of Aluminum	2.2.1.2	S													
			Material															

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		08 41 13	Recycled Content of Aluminum	2.3.1.2	S														
			Material																
			SD-04 Samples																
			Finish and Color Samples	1.2.1	G														
			SD-06 Test Reports																
			Certified Test Reports	1.2.1	G														
			Deflection	3.4.3															
			Air Infiltration	3.4.1															
			Condensation Resistance and	3.4.4															
			Thermal Transmittance																
			Water Infiltration	3.4.5															
			SD-07 Certificates																
			Indoor Air Quality For Adhesives	1.8.1	S														
			And Sealants																
			SD-08 Manufacturer’s Instructions																
			Manufacturer's Instructions	3.3															
			SD-11 Closeout Submittals																
			Manufacturer's Product Warranty	3.6															
		08 51 13	SD-02 Shop Drawings																
			Windows	2.1	G														
			Fabrication Drawings	1.7															
			SD-03 Product Data																
			Windows	2.1	G														
			Recycled Content of Aluminum	2.1	S														
			Windows																
			Hardware	2.2.10.1	G														

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		08 51 13	Fasteners	2.2.2	G														
			Window Performance	1.8	G														
			Thermal-Barrier Windows	2.3	G														
			Mullions	2.4	G														
			Casing Cover System	2.2.7	G														
			Casing Cover System	2.2.7	G														
			Muntins	2.2.8	G														
			Lead Caming	2.2.9	G														
			Accessories	2.2.10	G														
			Adhesives	2.2.3															
			Thermal Performance	1.8.4	G														
			SD-04 Samples																
			Finish Sample	1.3.3.1															
			Window Sample	1.3.3.2															
			Mock-Ups	1.3.3.3	G														
			SD-05 Design Data																
			Structural Calculations for	2.1	G														
			Deflection																
			Design Analysis	1.3.4	G														
			SD-06 Test Reports																
			Minimum Condensation	1.3.5															
			Resistance Factor																
			Air Infiltration	1.6.2															
			Air Infiltration	1.8.2															
			Water Infiltration	1.6.2															
			Water Infiltration	3.2															

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		08 51 13	SD-10 Operation and Maintenance															
			Data															
			Windows	2.1	G													
			Plastic Identification	1.5														
		08 71 00	SD-02 Shop Drawings															
			Manufacturer's Detail Drawings	1.3	G	RO												
			Verification of Existing Conditions	1.3	G	RO												
			Hardware Schedule	1.5	G	RO												
			Keying System	2.3.5.1	G	RO												
			SD-03 Product Data															
			Hardware Items	2.3	G	RO												
			SD-08 Manufacturer’s Instructions															
			Installation	3.1														
			SD-10 Operation and Maintenance															
			Data															
			Hardware Schedule	1.5	G	RO												
			SD-11 Closeout Submittals															
			Key Bitting	1.6.1	G	RO												
		08 81 00	SD-03 Product Data															
			Insulating Glass	2.3														
			Interior Glazing	2.2.1														
			Glazing Accessories	1.3														
			Sealants	2.4.3.1														
			Joint Backer	2.4.4														
			SD-04 Samples															
			Insulating Glass	2.3														

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		08 81 00	Glazing Compound	2.4.2															
			SD-07 Certificates																
			Indoor Air Quality of Adhesives	2.1	S														
			and Sealants																
			SD-08 Manufacturer’s Instructions																
			Setting and Sealing Materials	2.4															
			Glass Setting	3.2															
			SD-11 Closeout Submittals																
			Insulated Glass Units	1.6.1															
			Monolithic Reflective Glass	1.6.2															
		08 87 23.13	SD-03 Product Data																
			Fragment Retention Film	2.2															
			Cleaning	3.3															
			SD-04 Samples																
			Fragment Retention Film	2.2	G	AE													
			SD-06 Test Reports																
			Fragment Retention Film	2.2															
			SD-07 Certificates																
			Fragment Retention Film	2.2															
		08 91 00	SD-02 Shop Drawings																
			Wall Louvers	1.4	G	AE													
			SD-03 Product Data																
			Metal Wall Louvers	2.2	G	AE													
			SD-04 Samples																
			Wall Louver Samples	1.5	G	AE													
		09 01 90.50	SD-03 Product Data																

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		09 01 90.50	Work Plan	1.2	G														
			Materials	1.2															
			Qualifications	1.4.4															
			SD-07 Certificates																
			Work Plan	1.2															
		09 22 00	SD-02 Shop Drawings																
			Metal Support Systems	2.1	G	RO													
			SD-03 Product Data																
			Metal Support Systems	2.1															
			Recycled Content for Metal	2.1	S														
			Support Systems																
		09 22 36	SD-03 Product Data																
			Lath	2.1															
			Recycled Content for Metal Lath	2.1	S														
			Accessories	2.1.2															
		09 23 00	SD-03 Product Data																
			Gypsum Base Coat Plaster	2.2															
			Gypsum Finish Coat Plaster	2.3															
			SD-04 Samples																
			Sample Panel	1.3.1	G	AE													
			Gypsum Plaster Full Size Sample	1.5	G	AE													
			SD-07 Certificates																
			Indoor Air Quality For Plaster	1.8.2	S														
			SD-08 Manufacturer's Instructions																
			Ready-Mix Gypsum Plaster	2.7															
		09 29 00	SD-03 Product Data																

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		09 29 00	Cementitious Backer Units	2.1.6															
			Glass Mat Water-Resistant Gypsum Tile Backing Board	2.1.3															
			Water-Resistant Gypsum Backing Board	2.1.2															
			Glass Mat Covered or Reinforced Gypsum Sheathing	2.1.4															
			Glass Mat Covered or Reinforced Gypsum Sheathing Sealant	2.1.4.1															
			Accessories	2.1.12															
			Gypsum Board	2.1.1															
			Recycled Content for Gypsum Board	2.1.1	S														
			Recycled Content for Paper Facing and Gypsum Cores	2.1.1	S														
			VOC Content of Joint Compound	2.1.7	S														
			Recycled Content for Sound Attenuation Blankets	2.1.11	S														
			Sound Attenuation Blankets	2.1.11															
			SD-06 Test Reports																
			ASTM E90 Factory Test Report	2.1.5.1	G														
			ASTM E90 Factory Test Report	3.7	G														
			ASTM E90 Factory Test Report	3.10	G														
			ASTM E336 Field Test Report	3.10	G														
			SD-07 Certificates																
			Asbestos Free Materials	2.1	G	RO													

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		09 29 00	Indoor Air Quality for Gypsum	2.1.1	S														
			Board																
			Indoor Air Quality for Adhesives	2.1.9	S														
			Indoor Air Quality for Sound	1.3.1.3	S														
			Attenuation Blankets																
			SD-08 Manufacturer's Instructions																
			Safety Data Sheets	2.1															
			SD-10 Operation and Maintenance																
			Data																
			Manufacturer Maintenance	2.1															
			Instructions																
		09 30 10	SD-02 Shop Drawings																
			Detail Drawings	3.3	G														
			SD-03 Product Data																
			Porcelain Tile	2.1.1	G														
			Porcelain Tile	2.1.1	G														
			Recycled Content for Porcelain	2.1.1	S														
			Tile																
			Mosaic Tile	2.1.2	G														
			Recycled Content for Mosaic Tile	2.1.2	S														
			Transition Strips	2.1	G														
			Transition Strips	2.6.1	G														
			Metal Strips	2.6.2	G														
			Setting-Bed	2.2	G														
			Mortar, Grout, and Adhesive	2.4	G														
			Cementitious Backer Units	2.5.1	G														

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		09 30 10	Waterproof Membrane	2.7	G													
			Crack Isolation Membrane	2.8	G													
			SD-04 Samples															
			Tile	2.1	G	AE												
			Accessories	2.1	G	AE												
			Transition Strips	2.1	G	AE												
			Transition Strips	2.6.1	G	AE												
			Metal Strips	2.6.2	G													
			Grout	2.4.3	G	AE												
			SD-07 Certificates															
			Indoor Air Quality for Adhesives	2.4	S													
			Indoor Air Quality for Sealants	2.4.5	S													
			Indoor Air Quality for Cementitious Backer Units	1.3.1	S													
			Indoor Air Quality for Mortar and Grout	1.3.1	S													
			Indoor Air Quality for Sealer and Waterproofing Membrane	1.3.1	S													
			Water Absorption Rates	1.3.2														
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Approved Cleaning Instructions	3.12														
			SD-10 Operation and Maintenance															
			Data															
			Porcelain Tile	2.1.1	G													
			Mosaic Tile	2.1.2	G													

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		09 30 10	Transition Strips	2.1	G													
			Transition Strips	2.6.1	G													
			Metal Strips	2.6.2	G													
		09 51 00	SD-02 Shop Drawings															
			Approved Detail Drawings	2.1	G													
			SD-03 Product Data															
			Acoustical Ceiling Systems	2.1	G													
			Metal Ceiling	3.2.1	G													
			Wood Grill Ceiling		G													
			Acoustical Baffle Ceiling		G													
			Recycled Content for Type III	2.2.1.1	S													
			Ceiling Tiles															
			Recycled Content for Suspension	2.3	S													
			Systems															
			Acoustical Performance	2.1.1	G													
			SD-04 Samples															
			Acoustical Units	2.2	G													
			Acoustical Ceiling Tiles	2.2.1.1	G													
			Metal Ceiling	3.2.1	G													
			Wood Grill Ceiling		G													
			Acoustical Baffle Ceiling		G													
			SD-07 Certificates															
			Indoor Air Quality for Type III	2.2.1.1	S													
			Ceiling Tiles															
			Indoor Air Quality for Adhesives	2.6	S													
			Indoor Air Quality for Sealants	2.9	S													

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		09 62 38	SD-03 Product Data																
			Static-Control Resilient Flooring	2.1	G														
			Recycled content for Conductive	2.1.1.1	S														
			Vinyl Tile																
			Accessories	2.3	G														
			Adhesives	2.2	G														
			Warranty	1.9															
			SD-04 Samples																
			Static-Control Resilient Flooring	2.1	G	AE													
			Accessories	2.3	G	AE													
			SD-06 Test Reports																
			Fire Resistance	2.6															
			Moisture, Alkalinity and Bond	3.2															
			Testing	3.6															
			SD-07 Certificates																
			Indoor Air Quality for Conductive	2.1.1.1	S														
			Vinyl Tile																
			Indoor Air Quality for Adhesives	2.2	S														
			Qualifications of Applicator	1.6															
			SD-08 Manufacturer’s Instructions																
			Static-Control Resilient Flooring	2.1	G														
			Accessories	2.3	G														
			SD-10 Operation and Maintenance																
			Data																
			Static-Control Resilient Flooring	2.1	G														
			Accessories	2.3	G														

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		09 65 00	SD-02 Shop Drawings															
			Resilient Flooring and Accessories	2.8	G													
			SD-03 Product Data															
			Resilient Flooring and Accessories	2.8	G													
			Adhesives	2.5														
			Luxury Vinyl Tile	2.2														
			Recycled content for Luxury Vinyl Tile	2.2	S													
			Rubber Tile	2.1														
			Wall Base	2.3														
			Recycled content for Wall Base	2.3	S													
			SD-04 Samples															
			Resilient Flooring and Accessories	2.8	G AE													
			SD-06 Test Reports															
			Moisture, Alkalinity and Bond Tests	3.3	G AE													
			SD-07 Certificates															
			Indoor Air Quality for Rubber Tile	2.1	S													
			Indoor Air Quality for Luxury Vinyl Tile	2.2	S													
			Indoor Air Quality for Wall Base	2.3	S													
			Indoor Air Quality for Adhesives	2.5	S													
			SD-08 Manufacturer's Instructions															

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		09 65 00	Surface Preparation	3.2	G													
			Installation	3.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Resilient Flooring and	2.8	G													
			Accessories															
		09 66 23	SD-02 Shop Drawings															
			Detail Drawings	1.1	G													
			Strips	2.5	G													
			Control Joint Strips	2.5.2	G													
			SD-03 Product Data															
			Resin Flooring System	2.2														
			Resin Flooring System	2.2.1														
			Recycled Content for Marble	2.4	S													
			Chips															
			Indoor Air Quality for Primer	2.1	S													
			Indoor Air Quality for Resin	2.2	S													
			Indoor Air Quality for Grout	2.6	S													
			Indoor Air Quality for Sealer	2.7	S													
			Mixing, Proportioning, and	3.2														
			Installation															
			Cleaning and Sealing	3.4														
			SD-04 Samples															
			Resinous Terrazzo Flooring	1.1														
			SD-06 Test Reports															
			Certified Test Reports	3.3	G													

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		09 66 23	SD-07 Certificates																
			Qualifications of Installer	1.4	G														
		09 67 23.13	SD-02 Shop Drawings																
			Installation Drawings	2.1	G														
			SD-03 Product Data																
			Manufacturer's Catalog Data	1.2.2	G														
			SD-04 Samples																
			Hardboard Mounted Epoxy	1.5.3	G														
			Flooring																
			Floor Topping	3.1.4	G														
			Mockups	1.5.1	G														
			SD-05 Design Data																
			Design Mix Data	1.2.3	G														
			SD-07 Certificates																
			Listing of Product Installations	1.5.2															
			Referenced Standards	1.5															
			Certificates																
			Indoor Air Quality for Flooring	1.7.1	S														
			System																
			SD-11 Closeout Submittals																
			Warranty	1.6	G														
		09 68 00	SD-02 Shop Drawings																
			Installation Drawings	3.4	G														
			SD-03 Product Data																
			Carpet	2.1	G														
			Recycled Content for Carpeting	2.1.1	S														

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		09 68 00	Indoor Air Quality for Concrete	2.3	S														
			Primer																
			SD-04 Samples																
			Carpet	2.1	G														
			SD-06 Test Reports																
			Moisture and Alkalinity Tests	3.2	G														
			SD-07 Certificates																
			Indoor Air Quality for Carpet	2.1.2	S														
			Indoor Air Quality for Adhesives	2.3	S														
			SD-08 Manufacturer's Instructions																
			Surface Preparation	3.1															
			SD-10 Operation and Maintenance																
			Data																
			Cleaning and Protection	3.5															
			Maintenance Service	3.7.2															
			SD-11 Closeout Submittals																
			Warranty	1.6															
		09 72 00	SD-03 Product Data																
			Wallcoverings and Accessories	2.1	G														
			Primer and Adhesive	2.4															
			Recycled Content for vinyl	2.2	S														
			wallcovering																
			Recycled Content for textile	2.3	S														
			wallcovering																
			SD-04 Samples																
			Wallcoverings and Accessories	2.1	G														

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		09 72 00	SD-07 Certificates															
			Indoor Air Quality	1.3.1	S													
			SD-08 Manufacturer's Instructions															
			Wallcoverings and Accessories	2.1														
			SD-10 Operation and Maintenance															
			Data															
			Wallcoverings and Accessories	2.1	G													
		09 84 20	SD-02 Shop Drawings															
			Approved Detail Drawings	2.2	G													
			SD-03 Product Data															
			Installation	3.2														
			Acoustical Wall Panels	2.2	G													
			Recycled Content for Fabric	2.1.1.1	S													
			Panels															
			SD-04 Samples															
			Acoustical Wall Panels	2.2	G													
			SD-07 Certificates															
			Acoustical Wall Panels	2.2														
			Certified Sustainably Harvested	1.3.1	S													
			Wood															
			Indoor Air Quality for Wall Panels	1.3.2	S													
			SD-11 Closeout Submittals															
			Warranty	1.5														
		09 90 00	SD-02 Shop Drawings															
			Piping Identification	3.12														
			SD-03 Product Data															

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		09 90 00	Coating	2.1	G	AE													
			Sealant	3.3.5															
			Manufacturer's Technical Data	2.1															
			Sheets																
			SD-04 Samples																
			Color	1.11	G	AE													
			SD-07 Certificates																
			Applicator's Qualifications	1.4															
			Qualification Testing	1.5.1.2	G	RO													
			Indoor Air Quality for Paints and	2.1	S														
			Primers																
			Indoor Air Quality for	2.1	S														
			Consolidated Latex Paints																
			SD-08 Manufacturer’s Instructions																
			Application Instructions	3.4.1															
			Mixing	3.8.2															
			Manufacturer's Safety Data	1.8.2															
			Sheets																
			SD-10 Operation and Maintenance																
			Data																
			Coatings	2.1	G	RO													
		09 96 00	SD-01 Preconstruction Submittals																
			Equipment List	1.3	G	RO													
			SD-03 Product Data																
			Epoxy Coatings	2.2.1	G	AE													
			SD-04 Samples																

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		09 96 00	Color Chips	1.3	G	AE												
			SD-07 Certificates															
			Epoxy Coatings	2.2.1	G	RO												
			Indoor Air Quality for Paints and	2.2	S													
			Coatings															
		10 11 00	SD-02 Shop Drawings															
			Placement Schedule	3.1	G													
			SD-03 Product Data															
			Visual Display Unit	1.2	G													
			Visual Display Unit	2.1	G													
			SD-04 Samples															
			Aluminum	2.1.2	G													
			Cork	2.1.1	G													
			Glass	2.1.3	G													
			SD-07 Certificates															
			Indoor air quality for	2.2.1	S													
			markerboards															
			Indoor air quality for tackboards	2.3	S													
			Certificate of Compliance	1.2														
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Cleaning	3.3														
			Instructions															
			Manufacturer's Printed	3.2	G													
			Installation Instructions															
		10 14 00.10	SD-02 Shop Drawings															
			Approved Detail Drawings	3.1	G													

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		10 14 00.10	SD-03 Product Data															
			Installation	3.1														
			Exterior Signage	1.1	G													
			Wind Load Requirements	1.1.1														
			SD-04 Samples															
			Exterior Signage	1.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Protection and Cleaning	3.1.2	G													
		10 14 00.20	SD-02 Shop Drawings															
			Detail Drawings	1.4.2	G	AE												
			Signage Schedule	1.4.2	G	AE												
			SD-03 Product Data															
			Room Identification And	2.1	G	RO												
			Directional Signage System															
			Stair Signage	2.2	G	RO												
			Exit Door Tactile Sign	2.3	G	RO												
			Building Directories	2.4	G	RO												
			SD-04 Samples															
			Interior Signage	1.4.1	G	AE												
			Software	1.3	G	AE												
			Room Identification And	2.1	G	AE												
			Directional Signage System															
			Stair Signage	2.2	G	AE												
			Exit Door Tactile Sign	2.3	G	AE												
			Building Directories	2.4	G	AE												

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		10 14 00.20	SD-10 Operation and Maintenance															
			Data															
			Approved Manufacturer's	3.1	G	RO												
			Instructions															
			Protection and Cleaning	3.1.2	G	RO												
		10 21 13	SD-02 Shop Drawings															
			Fabrication Drawings	2.1														
			Installation Drawings	3.3	G	RO												
			SD-03 Product Data															
			Cleaning and Maintenance	2.1														
			Instructions															
			Sound-Deadening Cores	2.2.2														
			Anchoring Devices and Fasteners	2.2.3														
			Hardware and Fittings	2.2.5														
			Brackets	2.2.4														
			Door Hardware	2.2.6														
			Toilet Enclosures	2.3.1	G	AE												
			Urinal Screens	2.3.2	G	AE												
			Finishes	2.2.5.2	G													
			Recycled content for stainless	2.3	S													
			steel partitions and screens															
			SD-04 Samples															
			Hardware and Fittings	2.2.5														
			Anchoring Devices and Fasteners	2.2.3														
			SD-07 Certificates															
			Warranty	1.6														

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		10 21 13	Indoor air quality	1.3.1	S													
		10 21 23.16	SD-02 Shop Drawings															
			Cubicle track layout	1.3														
			SD-08 Manufacturer's Instructions															
			installation	3.1														
			SD-10 Operation and Maintenance															
			Data															
			Cubicle track system	2.1	G													
		10 26 00	SD-02 Shop Drawings															
			Corner Guards	2.2	G	AE												
			Wall Covering and Panels	2.3	G	AE												
			SD-03 Product Data															
			Corner Guards	2.2	G	AE												
			Wall Covering and Panels	2.3	G	AE												
			Recycled content for aluminum	2.2.1	S													
			component of corner guards															
			Recycled content for steel	2.2.2	S													
			component of corner guards															
			SD-04 Samples															
			Corner Guards	2.2	G													
			Wall Covering and Panels	2.3	G													
			SD-06 Test Reports															
			Fire Resistance Rating	2.1.1.2														
			SD-07 Certificates															
			Indoor air quality for wall	2.3	S													
			covering/panels															

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		10 26 00	Indoor air quality for adhesives	2.6	S														
			SD-10 Operation and Maintenance																
			Data																
			Corner Guards	2.2	G														
			Wall Covering and Panels	2.3	G														
		10 28 13	SD-02 Shop Drawings																
			Product Schedule	2.1	G														
			SD-03 Product Data																
			Recycled content for stainless	2.1	S														
			steel toilet accessories																
			Combination Paper Towel	2.1.3	G														
			Dispenser/Waste Receptacle																
			Item A5090	2.1.4	G														
			Item A5109	2.1.5	G														
			Item A5135	2.1.6	G														
			Item A5150	2.1.7	G														
			Soap Dispenser	2.1.8	G														
			Item A5200	2.1.9	G														
			Toilet Seat Cover Dispenser	2.1.10	G														
			SD-10 Operation and Maintenance																
			Data																
			Combination Paper Towel	2.1.3	G														
			Dispenser/Waste Receptacle																
			Item A5090	2.1.4	G														
			Item A5109	2.1.5	G														
			Item A5135	2.1.6	G														

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		10 28 13	Item A5150	2.1.7	G													
			Soap Dispenser	2.1.8	G													
			Item A5200	2.1.9	G													
			Toilet Seat Cover Dispenser	2.1.10	G													
		10 44 16	SD-02 Shop Drawings															
			Fire Extinguishers	2.1.1	G	AE												
			Accessories	Part 2	G	RO												
			Cabinets	Part 2	G	AE												
			Wall Brackets	2.2.2	G	RO												
			Schedule	1.5	G	RO												
			SD-03 Product Data															
			Fire Extinguishers	2.1.1	G	AE												
			Accessories	Part 2	G	AE												
			Cabinets	Part 2	G	AE												
			Wall Brackets	2.2.2	G	RO												
			Replacement Parts List	3.2.1	G	RO												
			SD-04 Samples															
			Equipment Samples	1.3.1	G	RO												
			SD-07 Certificates															
			Fire Extinguishers Certifications	2.1.1	G	RO												
			Manufacturer's Warranty with	1.4	G	RO												
			Inspection Tag															
		11 05 40	SD-01 Preconstruction Submittals															
			Contractor's Field Verification	1.3	G													
			Data															
			SD-02 Shop Drawings															

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		11 05 40	Installation Instructions and	1.5.1	G												
			Diagrams														
			SD-11 Closeout Submittals														
			Contractor's Warranty for	3.3	G												
			Installation														
		11 06 40.13	SD-02 Shop Drawings														
			Schedule	2.1.2	G												
		11 31 13	SD-03 Product Data														
			Kitchen Equipment	2.1													
			Energy Star Label for Refrigerator	2.1.1	S												
			Energy Star Label for Ice Maker	2.1.2	S												
			SD-08 Manufacturer’s Instructions														
			Kitchen Equipment	2.1													
			SD-10 Operation and Maintenance														
			Data														
			Kitchen Equipment	2.1	G												
			SD-11 Closeout Submittals														
			Contractor's Warranty for	3.3													
			Installation														
		11 41 11	SD-01 Preconstruction Submittals														
			Contractor's Field Verification	1.3	G												
			Data														
			SD-02 Shop Drawings														
			Manufacturer's Detail Drawings	1.5	G												
			Custom Fabricated Equipment	1.5	G												

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		11 41 11	Installation Instructions and	1.5	G													
			Diagrams															
			SD-03 Product Data															
			Refrigerated Food and Drink	1.6.1	G													
			Storage Cases															
			SD-06 Test Reports															
			Field Test Reports	3.2.2	G													
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Instructions	1.6.1														
			SD-11 Closeout Submittals															
			Manufacturer's Warranty	3.3														
			Contractor's Warranty for	3.4														
			Installation															
		11 47 00	SD-01 Preconstruction Submittals															
			Contractor's Field Verification	3.1	G													
			Data															
			SD-02 Shop Drawings															
			Detail Drawings	1.3.1.1	G													
			Custom Fabricated Equipment	1.3.1.1	G													
			Installation Instructions and	1.3.1.1	G													
			Diagrams															
			SD-05 Design Data															
			Manufacturer's Applicable	1.3.1.2	G													
			Literature															
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Instructions	1.3.1.2	G													

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		11 47 00	SD-10 Operation and Maintenance																
			Data																
			Ice Making equipment	1.1	G														
			SD-11 Closeout Submittals																
			Contractor's Warranty for	3.3															
			Installation																
		12 22 00	SD-02 Shop Drawings																
			Drawings	1.4	G														
			SD-03 Product Data																
			Drapery System	1.5															
			SD-04 Samples																
			Drapery Fabric	2.1.1.1	G														
			SD-06 Test Reports																
			Flame Resistance	2.1.1.2															
			SD-07 Certificates																
			Indoor Air Quality for Fabrics	2.1.1	S														
			SD-08 Manufacturer’s Instructions																
			Drapery Hardware	2.1.4															
			Fabrication	2.2.1															
			SD-10 Operation and Maintenance																
			Data																
			Drapery System	1.5	G														
		12 24 13	SD-02 Shop Drawings																
			Detailed Drawings	3.3	G														
			Location Schedule	2.1	G														
			SD-03 Product Data																

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		12 24 13	Window Shades	2.1	G													
			Recycled Content for various	2.1	S													
			fiber components															
			SD-04 Samples															
			Window Shades	2.1	G													
			SD-06 Test Reports															
			Flammability Requirements	1.4.2	G													
			SD-07 Certificates															
			Indoor Air Quality for roller	2.1	S													
			window shades															
			Qualifications	1.4.1.1														
			SD-10 Operation and Maintenance															
			Data															
			Window Shades	2.1	G													
		12 48 13	SD-02 Shop Drawings															
			Installation Drawings	3.2	G													
			Detail Drawings	3.2	G													
			Custom Graphics Drawings	3.2	G													
			SD-03 Product Data															
			Entrance Floor Mats and Frames	2.1.1	G													
			Adhesives and Concrete Primers	2.1.2	G													
			SD-04 Samples															
			Entrance Floor Mats and Frames	2.1.1	G													
			Custom Graphics	2.1.1	G													
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Instructions	3.2														

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		12 48 13	SD-10 Operation and Maintenance																
			Data																
			Protection, Maintenance, and	3.2															
			Repair Information																
		12 50 00.13 10	SD-02 Shop Drawings																
			Installation Drawings	3.3.1	G														
			Grommet, Power and	3.3.1	G														
			Communication Units, and Wire																
			Management Locations																
			SD-03 Product Data																
			Product Data	2.3	G														
			Product Style Options	2.3	G														
			SD-04 Samples																
			Fabric and Finishes	2.3.5	G														
			SD-07 Certificates																
			Authorized Dealer	1.6	G														
			Certified Furniture Installers	1.6	G														
			Licensed Electrician	1.6	G														
			Certified Telecommunications	1.6	G														
			Installer																
			Manufacturer's Certification	2.3	G														
			Warranty	1.8	G														
			SD-10 Operation and Maintenance																
			Data																
			Furniture, Data Package 1	3.5	G														
			SD-11 Closeout Submittals																

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		12 50 00.13 10	Energy Efficient Equipment	2.1.1	S														
			Reduced VOC's for Furniture	2.1.2	S														
			Recycled Content of Furniture	2.1.3	S														
			Bio-Based Content of Furniture	2.1.4	S														
		12 59 00	SD-02 Shop Drawings																
			Detail Drawings	1.4.4	G														
			SD-03 Product Data																
			Warranty	1.6	G														
			Workstations	2.2.1															
			Power and Communications	2.11															
			Communications	2.11.7															
			Recycled Content for system	2.1	S														
			furniture components																
			Energy Star Label for Task	2.11.6	S														
			Lighting																
			SD-04 Samples																
			Workstations	2.2.1	G														
			Samples	2.2.2															
			SD-06 Test Reports																
			Selected Components	2.2.4.1	G														
			Panel Acoustics	2.2.4.2	G														
			Fire Safety	1.4.2	G														
			Electrical System	1.4.3	G														
			SD-07 Certificates																
			Workstations	2.2.1															

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		12 59 00	SD-10 Operation and Maintenance															
			Data															
			Assembly Manuals	2.3.1	G													
			Maintenance Manuals	3.2	G													
			Cleaning	3.2	G													
			Electrical System	1.4.3	G													
			Maintenance Agreements	1.7														
			Installation	3.1	G													
		14 21 23	SD-02 Shop Drawings															
			Elevator	2.1	G													
			Elevator Components	1.2.1	G													
			Elevator Components	1.2.2	G													
			Elevator Machine	1.2.1	G													
			Elevator Controller	1.2.1	G													
			Wiring Diagrams	1.3.4	G													
			SD-03 Product Data															
			Elevator	2.1														
			Elevator Components	1.2.1														
			Elevator Components	1.2.2														
			Data Sheets	1.2.2														
			Elevator Microprocessor	2.5.2	G													
			Controller															
			SD-05 Design Data															
			Emergency Power Systems	1.2.3.3														
			Heat Loads	1.2.3.2														
			Reaction Loads	1.2.3.1														

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		14 21 23	SD-07 Certificates															
			Price Lists	1.3.2	G													
			Warranty	1.4														
			Endorsement Letter	1.3.1.1														
			Welders' Qualifications	1.2.4														
			Elevator Controller Certification	2.5.2.3	G													
			SD-10 Operation and Maintenance															
			Data															
			Elevator	2.1	G													
			Maintenance Control Program	1.2.5	G													
			(MCP)															
			Software and Documentation	2.5.2.2	G													
		21 13 13	SD-01 Preconstruction Submittals															
			Qualified Fire Protection Engineer	1.2.3	G	RO												
			(QFPE)															
			Sprinkler System Designer	1.4.2.1	G	RO												
			Sprinkler System Installer	1.4.2.2	G	RO												
			SD-02 Shop Drawings															
			Shop Drawing	1.2.1.1	G	RO												
			SD-03 Product Data															
			Pipe	2.2.1	G	RO												
			Fittings	2.3.1.2	G	RO												
			Valves	2.3.4	G	RO												
			Sprinklers	2.6	G	RO												
			Pipe Hangers and Supports	2.3.3	G	RO												
			Sprinkler Alarm Switch	2.4.1	G	RO												

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		21 13 13	Valve Supervisory (Tamper)	2.4.2	G	RO												
			Switch															
			Fire Department Connection	2.5	G	RO												
			Air Vent	2.7.5	G	RO												
			Hose Valve	2.3.4.3	G	RO												
			Seismic Bracing	2.3.3	G	RO												
			Nameplates	2.1.2	G	RO												
			SD-05 Design Data															
			Seismic Bracing	2.3.3	G	RO												
			Hydraulic Calculations	1.2.1.2	G	RO												
			SD-06 Test Reports															
			Test Procedures	3.7.1	G	RO												
			SD-07 Certificates															
			Verification of Compliant	3.7.2.1	G													
			Installation															
			Request for Government Final	3.7.2.2	G													
			Test															
			SD-10 Operation and Maintenance															
			Data															
			Operating and Maintenance	3.9	G													
			(O&M) Instructions															
			Spare Parts	1.6	G	RO												
			SD-11 Closeout Submittals															
			As-built drawings	3.9														
		22 00 00	SD-02 Shop Drawings															
			Plumbing System	3.9.1	G	AE												

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		22 00 00	SD-03 Product Data																
			Recycled Content for Steel Pipe	2.2.1	S														
			Recycled Content for Cast Iron	2.2.1	S														
			Pipe																
			Fixtures	2.5	S														
			Flush Valve Water Closets	2.5.3	G	AE													
			WaterSense Label for Flush	2.5.3	S														
			Valve Water Closet																
			Flush Valve Urinals	2.5.4	G	AE													
			WaterSense Label for Urinal	2.5.4	S														
			Countertop Lavatories	2.5.6	G	AE													
			Water flow rate for Lavatory	2.5.1	S														
			Faucet																
			Kitchen Sinks	2.5.7	G	AE													
			Mother Room Sink	2.5.8															
			Energy Star Label for Wheelchair	2.5.9	S														
			Electric Water Cooler																
			Water Heaters	2.9	G	AE													
			Pumps	2.11	G	AE													
			Backflow Prevention Assemblies	3.9.1.1	G	AE													
			Welding	1.5.1															
			Vibration-Absorbing Features	3.4	G	AE													
			Plumbing System	3.9.1															
			SD-06 Test Reports																
			Tests, Flushing and Disinfection	3.9															

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		22 00 00	Test of Backflow Prevention	3.9.1.1	G	AE												
			Assemblies															
			SD-07 Certificates															
			Materials and Equipment	1.3														
			Bolts	2.2.1														
			SD-10 Operation and Maintenance															
			Data															
			Plumbing System	3.9.1	G	AE												
		22 13 29	SD-02 Shop Drawings															
			Equipment Installation	3.2	G	AE												
			SD-03 Product Data															
			Materials and Equipment	2.1	G	AE												
			Framed Instructions	3.4	G	RO												
			Spare Parts	1.4	G	RO												
			SD-06 Test Reports															
			Field Testing and Adjusting	3.5	G	RO												
			Equipment															
			SD-10 Operation and Maintenance															
			Data															
			Operating and Maintenance	3.7	G	AE												
			Manuals															
		23 05 15	SD-01 Preconstruction Submittals															
			Material, Equipment, and Fixture	1.2														
			Lists															
			SD-02 Shop Drawings															
			Record Drawings	1.2														

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		23 05 15	Connection Diagrams	1.2														
			Coordination Drawings	1.2														
			Fabrication Drawings	1.2														
			Installation Drawings	3.1														
			Water Temperature Mixing Valve	2.4.6	G	RO												
			Water Temperature Regulating	2.4.7	G	RO												
			Valves															
			Water Pressure Reducing Valve	2.4.8	G	RO												
			Pressure Relief Valve	2.4.9	G	RO												
			Combination Pressure and	2.4.10	G	RO												
			Temperature Relief Valves															
			SD-03 Product Data															
			Pipe and Fittings	2.2														
			Piping Specialties	2.3														
			Valves	2.4														
			Miscellaneous Materials	2.6														
			Supporting Elements	2.7														
			Equipment Foundation Data	1.2														
			Water Temperature Mixing Valve	2.4.6	G	RO												
			Water Temperature Regulating	2.4.7	G	RO												
			Valves															
			Water Pressure Reducing Valve	2.4.8	G	RO												
			Pressure Relief Valve	2.4.9	G	RO												
			Combination Pressure and	2.4.10	G	RO												
			Temperature Relief Valves															
			SD-05 Design Data															

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		23 05 15	Pipe and Fittings	2.2														
			Piping Specialties	2.3														
			Valves	2.4														
			SD-06 Test Reports															
			Hydrostatic Tests	3.1														
			Air Tests	3.1	G	RO												
			Valve-Operating Tests	3.1	G	RO												
			Drainage Tests	3.1	G	RO												
			Pneumatic Tests	3.1	G	RO												
			Non-Destructive Electric Tests	3.1	G	RO												
			System Operation Tests	3.1														
			SD-07 Certificates															
			Record of Satisfactory Field Operation	1.4.2														
			List of Qualified Permanent Service Organizations	1.4.3														
			Listing of Product Installations	1.2														
			Records of Existing Conditions	1.2	G	RO												
			Surface Resistance	3.1	G	RO												
			Shear and Tensile Strengths	3.1	G	RO												
			Temperature Ratings	3.1	G	RO												
			Bending Tests	3.1	G	RO												
			Flattening Tests	3.1	G	RO												
			Transverse Guided Weld Bend Tests	3.1	G	RO												

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		23 05 15	SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.15															
			Manuals																
		23 05 48.19	SD-02 Shop Drawings																
			Coupling and Bracing	3.1	G	RO													
			Flexible Couplings or Joints	3.2	G	RO													
			Equipment Restraint	2.2	G	RO													
			Contractor Designed Bracing	1.2.2	G	RO													
			SD-03 Product Data																
			Coupling and Bracing	3.1	G	RO													
			Flexible Couplings Or Joints	3.2	G	RO													
			Equipment Restraint	2.2	G	RO													
			Contractor Designed Bracing	1.2.2	G	RO													
			Anchor Bolts	3.7	G	RO													
			Vibration Isolators	2.2.2	G	RO													
			SD-05 Design Data																
			Design Calculations	1.2.2	G	RO													
			SD-06 Test Reports																
			Anchor Bolts	3.7	G	RO													
		23 05 93	SD-01 Preconstruction Submittals																
			Records of Existing Conditions	1.4	G	AE													
			Independent TAB Agency and	1.6.1	G	AE													
			Personnel Qualifications																
			TAB Design Review Report	1.7.2.1	G	AE													
			TAB Firm	1.6.3.1	G	AE													

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		23 05 93	TAB Team Assistants	1.3	G	AE												
			TAB Team Engineer	1.3	G	AE												
			TAB Specialist	1.6.3.2	G	AE												
			TAB Team Field Leader	1.3	G	AE												
			SD-02 Shop Drawings															
			TAB Schematic Drawings and	1.4.4	G	AE												
			Report Forms															
			SD-03 Product Data															
			Equipment and Performance	1.4	G	AE												
			Data															
			TAB Related HVAC Submittals	1.6.3.4	G	AE												
			TAB Procedures	1.6.2	G	AE												
			Calibration	1.6.2	G	AE												
			Systems Readiness Check	1.4.4	G	AEO												
			TAB Execution	1.6.4	G	AE												
			TAB Verification	1.6.4.3	G	AE												
			SD-06 Test Reports															
			Completed Pre-Final DALT	3.3.5	G	AE												
			Report															
			Certified Final DALT Report	3.3.8	G	AE												
			TAB Design Review Report	1.7.2.1	G	AE												
			TAB Report for Season 1	1.6.5.2	G	AE												
			TAB Report for Season 2	1.6.5.2	G	AE												
			SD-07 Certificates															
			Independent TAB Agency and	1.6.1	G	AEO												
			Personnel Qualifications															

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		23 05 93	DALT and TAB Submittal and	1.7.2	G	AE												
			Work Schedule															
			TAB Pre-Field Engineering	1.7.2.3	G	AE												
			Report															
			TAB Firm	1.6.3.1	G	AE												
			Design Review Report	1.4.4	G	AEO												
			Pre-field DALT Preliminary	1.7.2.2	G													
			Notification															
			Advanced Notice for Season 1	1.7.2	G	AE												
			TAB Field Work															
			Prerequisite HVAC Work Check	1.7.2	G	AE												
			Out List For Season 1															
			Advanced Notice for Season 2	1.7.2	G													
			TAB Field Work															
			Prerequisite HVAC Work Check	1.7.2	G	AE												
			Out List For Season 2															
		23 07 00	SD-02 Shop Drawings															
			MICA Plates	3.2.2.4	G	RO												
			Pipe Insulation Systems	2.3	G	RO												
			Pipe Insulation Systems	3.2	G	RO												
			Duct Insulation Systems	3.3	G	RO												
			Equipment Insulation Systems	3.4	G	RO												
			Recycled content for insulation	2.3.1	S													
			materials															
			SD-03 Product Data															
			Pipe Insulation Systems	2.3	G	RO												

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		23 07 00	Pipe Insulation Systems	3.2	G	RO													
			Duct Insulation Systems	3.3	G	RO													
			Equipment Insulation Systems	3.4	G	RO													
			SD-07 Certificates																
			Indoor air quality for adhesives	2.2.1	S														
			SD-08 Manufacturer’s Instructions																
			Pipe Insulation Systems	2.3	G	RO													
			Pipe Insulation Systems	3.2	G	RO													
			Duct Insulation Systems	3.3	G	RO													
			Equipment Insulation Systems	3.4	G	RO													
		23 09 00	SD-02 Shop Drawings																
			DDC Contractor Design Drawings	3.3	G	RO	A												
			Draft As-Built Drawings	3.3	G	RO													
			Final As-Built Drawings	3.3	G	RO													
			SD-03 Product Data																
			Certificate of Networthiness	1.8.6	G	RO													
			Documentation																
			Programming Software	1.8.1	G	RO													
			Controller Application Programs	1.8.2	G	RO													
			Configuration Software	1.8.1	G	RO													
			Manufacturer's Product Data	2.2	G	RO													
			Niagara Framework Supervisory	1.8.4	G	RO													
			Gateway Backups																
			Niagara Framework Engineering	1.8.5	G														
			Tool																
			Niagara Framework Wizards	1.8.3	G														

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		23 09 00	SD-06 Test Reports																
			Existing Conditions Report	3.1.1															
			Start-Up Testing Report	3.5.2	G	RO													
			PVT Procedures	3.6.1	G	RO													
			PVT Report	3.6.3	G	RO													
			Pre-Construction Quality Control (QC) Checklist	1.9.1	G	RO													
			Post-Construction Quality Control (QC) Checklist	1.9.2	G	RO													
			SD-10 Operation and Maintenance Data																
			Operation and Maintenance (O&M) Instructions	3.7	G	RO													
			Training Documentation	3.9.1	G	RO													
			SD-11 Closeout Submittals																
			Enclosure Keys	2.5	G	RO													
			Password Summary Report	3.2.6.1	G	RO													
			Closeout Quality Control (QC) Checklist	1.9.3	G	RO													
		23 21 23	SD-02 Shop Drawings																
			System Coordination	2.1.2	G	RO													
			SD-03 Product Data																
			Instructions	2.2.2	G	RO													
			Equipment Data	2.2.5	G	RO													
			Training Period	3.5.2	G	RO													
			SD-06 Test Reports																

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		23 21 23	Factory Tests	2.8														
			Field Quality Control	3.3														
			SD-07 Certificates															
			Manufacturer's Representative	1.4.1														
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.5.1	G	RO												
			Manuals															
			Training	3.5.2	G	RO												
		23 30 00	SD-02 Shop Drawings															
			Detail Drawings	1.5.4	G	RO												
			SD-03 Product Data															
			Insulated Nonmetallic Flexible	2.8.1.1														
			Duct Runouts															
			Duct Connectors	2.8.1.1														
			Duct Access Doors	2.8.2	G	RO												
			Fire Dampers	2.8.3	G	RO												
			Manual Balancing Dampers	2.8.4	G	RO												
			Automatic Smoke-Fire Dampers	2.8.6	G	RO												
			Sound Attenuation Equipment	2.8.7	G	RO												
			Diffusers	2.8.8.1	G	RO												
			Registers and Grilles	2.8.8.2	G	RO												
			Louvers	2.8.9	G	RO												
			Air Vents, Penthouses, and	2.8.10	G	RO												
			Goosenecks															
			Centrifugal Fans	2.9.1.1	G	RO												

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		23 30 00	In-Line Centrifugal Fans	2.9.1.2	G	RO												
			Air Handling Units	2.10	G	RO												
			Room Fan-Coil Units	2.11.1	G	RO												
			Coil Induction Units	2.11.2	G	RO												
			Constant Volume, Single Duct	2.11.3.1	G	RO												
			Terminal Units															
			Variable Volume, Single Duct	2.11.3.2	G	RO												
			Terminal Units															
			Reheat Units	2.11.3.3	G	RO												
			Energy Recovery Devices	2.12	G	RO												
			Test Procedures	1.5.5														
			Diagrams	1.2.1.2	G	RO												
			Indoor Air Quality for Duct	2.8.1	S													
			Sealants															
			Indoor Air Quality for Filter Media	2.9.3	S													
			SD-06 Test Reports															
			Performance Tests	3.13	G	RO												
			Damper Acceptance Test	3.11	G	RO												
			SD-07 Certificates															
			Ozone Depleting Substances	1.5.3														
			Technician Certification															
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Installation	3.2	G	RO												
			Instructions															
			Operation and Maintenance	3.15.2	G	RO												
			Training															

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		23 30 00	SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.15.1	G	RO												
			Manuals															
			Fire Dampers	2.8.3	G	RO												
			Manual Balancing Dampers	2.8.4	G	RO												
			Automatic Smoke-Fire Dampers	2.8.6	G	RO												
			Centrifugal Fans	2.9.1.1	G	RO												
			In-Line Centrifugal Fans	2.9.1.2	G	RO												
			Air Handling Units	2.10	G	RO												
			Room Fan-Coil Units	2.11.1	G	RO												
			Coil Induction Units	2.11.2	G	RO												
			Constant Volume, Single Duct	2.11.3.1	G	RO												
			Terminal Units															
			Variable Volume, Single Duct	2.11.3.2	G	RO												
			Terminal Units															
			Reheat Units	2.11.3.3	G	RO												
			Energy Recovery Devices	2.12	G	RO												
			SD-11 Closeout Submittals															
			Indoor Air Quality During	3.14	S													
			Construction															
		23 57 10.00 10	SD-02 Shop Drawings															
			Heating System	2.15	G	AE												
			SD-03 Product Data															
			Spare Parts	1.5	G	AE												
			Welding	3.4	G	AE												

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		23 57 10.00 10	Framed Instructions	3.22	G	AE												
			Convectors	2.13														
			Convectors	3.16														
			Air Separator	2.7	G	AE												
			Expansion Tank	2.6	G	AE												
			Steam Traps	2.8	G	AE												
			Steam Traps	3.14	G	AE												
			Unit Heaters	2.14	G	AE												
			Unit Heaters	3.17	G	AE												
			Heat Exchangers	2.9	G	AE												
			Heat Exchangers	3.15	G	AE												
			SD-06 Test Reports															
			Testing and Cleaning	3.21	G	AE												
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.23	G	AE												
			Manuals															
		23 81 23	SD-03 Product Data															
			Computer Room Air Conditioner	2.1	G	RO												
			Small Computer Room Air	2.2	G	RO												
			Conditioners															
			Space Temperature Control	2.5.3	G	RO												
			System Drawings															
			Filters	2.1.5														
			Leak Detection	2.3.1.3	G	RO												
			SD-06 Test Reports															

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		23 81 23	Manufacturer's Factory Test	2.8.1	G	RO												
			Plans															
			Factory Test Reports	2.8.4	G	RO												
			Field Test Schedule	3.3.2	G	RO												
			Manufacturer's Field Test Plans	3.3.1	G	RO												
			Field Test Reports	3.3.6	G	RO												
			SD-07 Certificates															
			Credentials of the Manufacturer's	3.3.3	G	RO												
			Field Test Representative															
			Certified List Of Qualified	1.5.3														
			Permanent Service Organizations															
			SD-08 Manufacturer’s Instructions															
			Installation Manual for Each Type	3.1.2														
			of CRAC															
			SD-10 Operation and Maintenance															
			Data															
			Computer Room Air Conditioner	3.1.3	G	RO												
			Operation and Maintenance Data															
			SD-11 Closeout Submittals															
			Indoor Air Quality During	3.2	S													
			Construction															
		25 05 11.21	SD-01 Preconstruction Submittals															
			Wireless Communication	1.4.1	G													
			Request															
			Device Account Lock Exception	1.4.1	G													
			Request															

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		25 05 11.21	Contractor Computer	1.9.1.4	G													
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.9.5	G													
			Cybersecurity Compliance															
			Statements															
			Cybersecurity Subject Matter	1.6.1	G													
			Expert Qualifications															
			SD-02 Shop Drawings															
			Network Communication Report	1.7.1	G													
			Cybersecurity Riser Diagram	1.7.3	G													
			Control System Inventory Report	1.7.2	G													
			SD-03 Product Data															
			Control System Cybersecurity	1.7.4	G													
			Documentation															
			SD-06 Test Reports															
			Wireless Communication Test	1.4.1	G													
			Report															
			SD-07 Certificates															
			Software Licenses	1.8	G													
			SD-11 Closeout Submittals															
			Password Summary Report	3.4.1.2.2	G													
			Device Audit Record Upload	1.4.1	G													
			Software															
		25 05 11.23	SD-01 Preconstruction Submittals															

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		25 05 11.23	Device Account Lock Exception	3.1.2.2	G													
			Request															
			Multiple IP Connection Device	3.9	G													
			Request															
			Contractor Computer	1.10.1.4	G													
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.10.5	G													
			Cybersecurity Compliance															
			Statements															
			Cybersecurity Subject Matter	1.7.1	G RO													
			Expert Qualifications															
			SD-02 Shop Drawings															
			User Interface Banner Schedule	3.1.3.1	G													
			Network Communication Report	1.8.2	G													
			Cybersecurity Riser Diagram	1.8.5	G													
			Control System Inventory Report	1.8.3	G													
			Cybersecurity Interconnection	1.8.1	G													
			Schedule															
			SD-03 Product Data															
			Control System Cybersecurity	1.8.6	G													
			Documentation															
			SD-07 Certificates															
			Software Licenses	1.9	G													
			SD-11 Closeout Submittals															
			Password Summary Report	3.5.2.2.5	G													

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		25 05 11.23	Software Recovery And	1.8.4	G														
			Reconstitution Images																
			Device Audit Record Upload	3.2.2.1	G														
			Software																
			Completed Security Technical	3.11.1	G	RO													
			Implementation Guides Checklist																
			Completed NESSUS/ACAS Scan	3.11.2	G	RO													
			Results																
		25 05 11.26	SD-01 Preconstruction Submittals																
			Device Account Lock Exception	3.1.2.2	G														
			Request																
			Multiple IP Connection Device	3.9	G														
			Request																
			Contractor Computer	1.10.1.4	G														
			Cybersecurity Compliance																
			Statements																
			Contractor Temporary Network	1.10.6	G														
			Cybersecurity Compliance																
			Statements																
			Cybersecurity Subject Matter	1.7.1	G														
			Expert Qualifications																
			SD-02 Shop Drawings																
			User Interface Banner Schedule	3.1.3.1	G														
			Network Communication Report	1.8.2	G														
			Cybersecurity Riser Diagram	1.8.5	G														
			Control System Inventory Report	1.8.3	G														

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		25 05 11.26	Cybersecurity Interconnection Schedule	1.8.1	G														
			SD-03 Product Data																
			Control System Cybersecurity Documentation	1.8.6	G														
			SD-07 Certificates																
			Software Licenses	1.9	G														
			SD-11 Closeout Submittals																
			Password Summary Report	3.5.2.2.5	G														
			Software Recovery And Reconstitution Images	1.8.4	G														
			Device Audit Record Upload Software	3.2.2.1	G														
			Completed Security Technical Implementation Guides Checklist	3.11.1	G														
			Completed NESSUS/ACAS Scan Results	3.11.2	G														
		25 08 10	SD-01 Preconstruction Submittals																
			Factory Test	3.4	G RO														
			SD-06 Test Reports																
			UMCS and Building Level DDC Testing Sequence	3.1	G RO														
			Performance Verification Test	3.6	G RO														
			Endurance Testing	3.7	G RO														
		25 10 10	SD-02 Shop Drawings																

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		25 10 10	UMCS Contractor Design	3.2.1															
			Drawings																
			Draft As-Built Drawings	3.2.2															
			Final As-Built Drawings	3.2.2															
			SD-03 Product Data																
			Product Data Sheets	2.1.5															
			SD-06 Test Reports																
			Pre-Construction QC Checklist	1.6															
			Post-Construction QC Checklist	1.6															
			Existing Conditions Report	3.1															
			Start-Up and Start-Up Testing	3.6	G	RO													
			Report																
			PVT Phase I Procedures	3.7.1															
			PVT Phase I Report	3.7.2	G	RO													
			PVT Phase II Report	3.7.3	G	RO													
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	1.7															
			(O&M) Instructions																
			Basic Training Documentation	3.9.1															
			Advanced Training	3.9.1															
			Documentation																
			SD-11 Closeout Submittals																
			Closeout QC Checklist	1.6															
		26 08 00	SD-06 Test Reports																
			Acceptance tests and inspections	3.1	G														

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		26 08 00	SD-07 Certificates																
			Qualifications	1.4.1															
			Acceptance test and inspections	1.4.3															
			procedure																
		26 20 00	SD-02 Shop Drawings																
			Panelboards	2.11	G														
			Transformers	2.12	G														
			Marking Strips	3.1.8.1	G														
			SD-03 Product Data																
			Receptacles	2.10	G														
			Circuit Breakers	2.11.3	G														
			Switches	2.9	G														
			Transformers	2.12	G														
			Motor Controllers	2.14	G														
			Grounding Busbar	2.18.3	G														
			Surge Protective Devices	2.23	G														
			SD-06 Test Reports																
			600-volt Wiring Test	3.5.2	G														
			Grounding System Test	3.5.5	G														
			Transformer Tests	3.5.3	G														
			Ground-fault Receptacle Test	3.5.4	G														
			SD-09 Manufacturer’s Field																
			Reports																
			Transformer Factory Tests	2.25.1															
		26 24 13	SD-02 Shop Drawings																
			Switchboard Drawings	1.5.2	G														

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		26 24 13	SD-03 Product Data															
			Switchboard	2.2	G													
			SD-06 Test Reports															
			Switchboard Design Tests	2.5.1	G													
			Switchboard Production Tests	2.5.2	G													
			Acceptance Checks and Tests	3.4.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Switchboard Operation and	1.6.1	G													
			Maintenance															
			SD-11 Closeout Submittals															
			Assembled Operation and	1.6.2	G													
			Maintenance Manuals															
			Service Entrance Available Fault	2.8	G													
			Current Label															
		26 27 14.00 20	SD-02 Shop Drawings															
			Installation Drawings	1.4.1	G													
			SD-03 Product Data															
			Electricity meters	2.1.3	G													
			Current transformer	2.1.2	G													
			communications	2.2	G													
			Interfacing Software	3.1.1	G													
			SD-06 Test Reports															
			Acceptance checks and tests	3.2.1	G													
			System functional verification	3.2.2	G													
			Meter configuration report	3.2.1	G													

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		26 27 14.00 20	SD-10 Operation and Maintenance																
			Data																
			Electricity Meters and	1.5.1	G														
			Accessories																
			SD-11 Closeout Submittals																
			System functional verification	3.2.2	G														
		26 28 01.00 10	SD-03 Product Data																
			Fault Current Analysis	2.4	G														
			Arc Flash Analysis	2.4.6	G														
			Arc Flash Analysis	2.4.6	G														
			Protective Device Coordination	2.4	G														
			Study																
			Equipment	1.4															
			System Coordinator	1.3.1															
			Installation	3.2															
			SD-06 Test Reports																
			Field Testing	3.3															
			SD-07 Certificates																
			Devices and Equipment	2.1															
			Devices and Equipment	2.2															
			Devices and Equipment	3.2															
		26 29 23	SD-02 Shop Drawings																
			Schematic Diagrams	1.5.1	G														
			SD-03 Product Data																
			Adjustable Speed Drives	2.1	G														
			Wires and Cables	2.3															

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		26 29 23	Equipment Schedule	1.5.2														
			SD-06 Test Reports															
			ASD Test	3.3.1														
			Performance Verification Tests	3.3.2														
			Endurance Test	3.3.3														
			SD-08 Manufacturer’s Instructions															
			Installation instructions	1.5.3														
			SD-09 Manufacturer’s Field															
			Reports															
			ASD Test Plan	2.5.1	G													
			Standard Products	1.5.4														
			SD-10 Operation and Maintenance															
			Data															
			Adjustable Speed Drives	2.1														
		26 41 00	SD-02 Shop Drawings															
			Overall lightning protection	1.4.1.1	G													
			system															
			Each major component	1.4.1.2	G													
			SD-06 Test Reports															
			Lightning Protection and	1.4.3	G													
			Grounding System Test Plan															
			Lightning Protection and	3.4.1	G													
			Grounding System Test															
			SD-07 Certificates															
			Lightning Protection System	1.2.3	G													
			Installers Documentation															

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		26 41 00	Component UL Listed and	1.4.2	G													
			Labeled															
			Lightning protection system	1.4.4	G													
			inspection certificate															
			Roof manufacturer's warranty	3.1.1	G													
		26 51 00	SD-02 Shop Drawings															
			Luminaire Drawings	1.5.1	G													
			Occupancy/Vacancy Sensor	1.5.8	G													
			Coverage Layout															
			Lighting Control System One-Line	1.7.2	G													
			Diagram															
			Sequence of Operation for	2.5.1	G													
			Lighting Control System															
			SD-03 Product Data															
			Luminaires	2.2	G													
			Light Sources	2.3	G													
			LED Drivers	2.4	G													
			Luminaire Warranty	1.6.1	G													
			Lighting Controls Warranty	1.6.2	G													
			Local Area Controller	2.5.1.1.1	G													
			Lighting Control Panel	2.5.1.2.1	G													
			Switches	2.5.2.1	G													
			Wall Box Dimmers	2.5.2.2	G													
			Scene Wallstations	2.5.2.3	G													
			Occupancy/Vacancy Sensors	2.5.2.4	G													
			Photosensors	2.5.2.5	G													

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		26 51 00	Time Clocks	2.5.1.2.1	G													
			Power Packs	2.5.2.4.5	G													
			Exit Signs	2.6.1	G													
			SD-05 Design Data															
			Luminaire Design Data	1.5.2	G													
			SD-06 Test Reports															
			IES LM-79 Test Report	1.5.3	G													
			IES LM-80 Test Report	1.5.4	G													
			IES TM-21 Test Report	1.5.5	G													
			IES TM-30 Test Report	1.5.6	G													
			Occupancy/Vacancy Sensor	3.2.1.1	G													
			Verification Test															
			Photosensor Verification Test	3.2.1.1	G													
			SD-07 Certificates															
			LED Driver and Dimming Switch	1.5.7	G													
			Compatibility Certificate															
			SD-10 Operation and Maintenance															
			Data															
			Lighting System	1.7.1	G													
			Lighting Control System	1.7.2	G													
			Maintenance Staff Training Plan	3.3.2.1	G													
			End-User Training Plan	3.3.2.2	G													
		26 56 00	SD-02 Shop Drawings															
			Luminaire Drawings	1.5.1.1	G													
			Control System One-Line	1.7.2	G													
			Diagram															

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		26 56 00	Sequence of Operation for	2.5.1	G													
			Exterior Lighting Control System															
			SD-03 Product Data															
			Luminaires	2.2	G													
			Light Sources	2.3	G													
			LED Drivers	2.4	G													
			Luminaire Warranty	1.6.1	G													
			Lighting Controls Warranty	1.6.2	G													
			Photosensors	2.5.2.2	G													
			Time Clock	2.5.2.1	G													
			Lighting Contactor	2.5.2.3	G													
			SD-05 Design Data															
			Luminaire Design Data	1.5.2	G													
			SD-06 Test Reports															
			IES LM-79 Test Report	1.5.3	G													
			IES LM-80 Test Report	1.5.4	G													
			IES TM-21 Test Report	1.5.5	G													
			SD-10 Operation and Maintenance															
			Data															
			Lighting System	1.7.1	G													
			Exterior Lighting Control System	1.7.2	G													
			Maintenance Staff Training Plan	3.3.1.1	G													
			End-User Training Plan	3.3.1.2	G													
		27 05 14.00 10	SD-02 Shop Drawings															
			DAS Distribution System	1.2														
			Installation	3.1	G													

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		27 05 14.00 10	SD-03 Product Data																
			Spare Parts	1.7															
			Test Plan	3.4	G														
			Qualifications	1.4															
			SD-06 Test Reports																
			Testing	3.4															
			SD-07 Certificates																
			Materials and Equipment	2.1															
			SD-08 Manufacturer’s Instructions																
			Manufacturer's	3.1.2															
			Recommendations																
			SD-10 Operation and Maintenance																
			Data																
			Operation and Maintenance	3.5	G														
			Manuals																
		27 05 28.36 40	SD-02 Shop Drawings																
			Fabrication Drawings	2.2	G														
			Installation Drawings	3.1.2	G														
			SD-03 Product Data																
			Cable Trays	1.2.1	G	AE													
			Supports	1.2.1	G														
			SD-08 Manufacturer’s Instructions																
			Manufacturer's Instructions	3.1.1															
		27 10 00	SD-02 Shop Drawings																
			Telecommunications drawings	1.6.1.1	G														

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		27 10 00	Telecommunications Space	1.6.1.2	G													
			Drawings															
			SD-03 Product Data															
			Telecommunications cabling	2.3	G													
			Patch panels	2.4.5	G													
			Telecommunications	2.5	G													
			outlet/connector assemblies															
			Equipment support frame	2.4.2	G													
			Connector blocks	2.4.3	G													
			Spare Parts	1.10.3	G													
			SD-06 Test Reports															
			Telecommunications cabling	3.5.1	G													
			testing															
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													
			Key Personnel	1.6.2.2	G													
			Manufacturer Qualifications	1.6.2.3	G													
			Test plan	1.6.3	G													
			SD-09 Manufacturer's Field															
			Reports															
			Factory reel tests	2.10.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Telecommunications cabling and	1.10.1	G													
			pathway system															
			SD-11 Closeout Submittals															

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		27 10 00	Record Documentation	1.10.2	G													
		27 53 19.13	SD-01 Preconstruction Submittals															
			Qualifications	1.7.3	G	RO												
			SD-02 Shop Drawings															
			System Description	1.6	G	RO												
			System Layout	1.2.1	G	RO												
			Detail Drawings	1.7.2.1	G	RO												
			Coordination Drawings	1.7.2.2	G	RO												
			SD-03 Product Data															
			Material and Equipment	2.1	G	RO												
			Uninterruptible Power Supply	2.9	G	RO												
			Warranty	1.10	G	RO												
			SD-05 Design Data															
			Design Analysis and Calculations	1.6.8	G	RO												
			SD-06 Test Reports															
			Acceptance Test Plan	3.8.1	G	RO												
			Acceptance Test Procedure	3.8.5.2	G	RO												
			Acceptance Test Report	3.8.7	G	RO												
			SD-07 Certificates															
			Accreditation	1.7.1	G	RO												
			Certificates of Compliance	3.8.5.1	G	RO												
			SD-08 Manufacturer's Instructions															
			Installation	3.4	G	RO												
			SD-10 Operation and Maintenance															
			Data															

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		27 53 19.13	Operation and Maintenance	1.11.1	G	RO												
			Manuals															
			Training Plan	3.9.1	G	RO												
			SD-11 Closeout Submittals															
			As-built System Drawings	3.8.5.1	G	RO												
			Closeout Documentation	3.9.10	G	RO												
		28 08 10	SD-05 Design Data															
			Test Plan	3.1	G	RO												
			SD-06 Test Reports															
			Draft Test Report	3.2.2														
			Final Test Report	3.4	G	RO												
			SD-07 Certificates															
			Qualifications	1.4.1														
		28 10 05	SD-02 Shop Drawings															
			ESS Components	1.3.3.1	G	RO												
			Overall System Schematic	1.3.3.2	G	RO												
			SD-03 Product Data															
			Access Control Unit	2.3.4	G	RO												
			Access Control Devices	2.3.5	G	RO												
			Communications Interface	2.6	G	RO												
			Devices															
			Uninterruptible Power Supply	2.7.1	G	RO												
			(UPS)															
			Component Enclosure	2.9	G	RO												
			Equipment Rack	2.10	G	RO												
			SD-05 Design Data															

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		28 10 05	Backup Battery Capacity	1.5.1	G	RO													
			Calculations																
			Throughput Rates	2.3.2	G	RO													
			SD-07 Certificates																
			Contractor Qualifications	1.3.4.1	G	RO													
			Instructor Qualifications	1.3.4.2	G	RO													
			Data Encryption	2.6.3	G	RO													
			SD-10 Operation and Maintenance																
			Data																
			Training Plan	3.6.1	G	RO													
			Training Content	3.6	G	RO													
			ESS Components	1.3.3.1	G	RO													
			ESS Software	1.6	G	RO													
			SD-11 Closeout Submittals																
			As-Built Drawings	1.7	G	RO													
		28 31 76	SD-01 Preconstruction Submittals																
			Qualified Fire Protection Engineer	1.3.2	G	AE													
			(QFPE)																
			Fire alarm system designer	1.8.2.1	G	AE													
			Supervisor	1.8.2.2	G	AE													
			Technician	1.8.2.3	G	AE													
			Installer	1.8.2.4	G	AE													
			Test Technician	1.8.2.5	G	AE													
			Fire Alarm System Site-Specific	1.7	G	AE													
			Software Acknowledgement																
			SD-02 Shop Drawings																

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		28 31 76	Nameplates	1.8.1.3	G	AE												
			Instructions	2.2.4	G	AE												
			Wiring Diagrams	1.8.1.4	G	AE												
			System Layout	1.8.1.5	G	AE												
			Notification Appliances	1.8.1.6	G	AE												
			Initiating devices	1.8.1.7	G	AE												
			Amplifiers	1.8.1.8	G	AE												
			Battery Power	1.8.1.9	G	AE												
			Voltage Drop Calculations	1.8.1.10	G	AE												
			SD-03 Product Data															
			Fire Alarm and Mass Notification	2.3	G	AE												
			Control Unit (FMCU)															
			Local Operating Console (LOC)	1.4.4	G	AE												
			Amplifiers	1.8.1.8	G	AE												
			Tone Generators	2.5	G	AE												
			Digitalized voice generators	2.5	G	AE												
			LCD Annunciator	2.6.1	G	AE												
			Manual Stations	2.7	G	AE												
			Smoke Detectors	2.8	G	AE												
			Duct Smoke Detectors	2.8.2	G	AE												
			Heat Detectors	2.9	G													
			Addressable Interface Devices	2.10	G	AE												
			Addressable Control Modules	2.11	G	AE												
			Notification Appliances	1.8.1.6	G	AE												
			Batteries	2.14.1	G	AE												
			Battery Chargers	2.14.2	G	AE												

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		28 31 76	Supplemental Notification	2.14.1.1	G	AE												
			Appliance Circuit Panels															
			Auxiliary Power Supply Panels	2.14.1.1	G	AE												
			Surge Protective Devices	2.15	G	AE												
			Alarm Wiring	2.15	G	AE												
			Back Boxes and Conduit	3.3.4	G	AE												
			Ceiling Bridges	3.2.9	G													
			Terminal Cabinets	3.3.2	G	AE												
			Automatic Fire Alarm	2.18	G													
			Transmitters															
			Radio Transmitter and Interface	2.18.1	G	AE												
			Panels															
			Electromagnetic Door Holders	2.19.2	G													
			SD-06 Test Reports															
			Test Procedures	3.6.1	G	AE												
			SD-07 Certificates															
			Verification of Compliant	3.6.2.1	G	AE												
			Installation															
			Request for Government Final	3.6.2.2	G	AE												
			Test															
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.8	G	AE												
			(O&M) Instructions															
			Instruction of Government	3.9	G	AE												
			Employees															

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		28 31 76	SD-11 Closeout Submittals																
			As-Built Drawings	1.8.1.13															
			Spare Parts	1.10.1															
		31 00 00	SD-01 Preconstruction Submittals																
			Shoring	3.3	G	DO													
			Dewatering Work Plan	1.3.3	G	DO													
			SD-03 Product Data																
			Utilization of Excavated Materials	3.7	G	RO													
			Rock Excavation	1.3.1.2															
			SD-06 Test Reports																
			Testing	3.14															
			Borrow Site Testing	2.1															
			SD-07 Certificates																
			Testing	3.14															
		31 05 19	SD-03 Product Data																
			Thread	2.1.2															
			Manufacturing Quality Control	2.2															
			Sampling and Testing																
			SD-04 Samples																
			Quality Assurance Samples and	3.1															
			Tests																
			SD-07 Certificates																
			Geotextile	2.1.1															
		32 05 33	SD-01 Preconstruction Submittals																
			Integrated Pest Management	2.4	G														
			Plan																

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		32 05 33	SD-03 Product Data																
			Fertilizer	2.1	G														
			Mulches Topdressing	2.3															
			Organic Mulch Materials	2.3.1															
			SD-07 Certificates																
			Maintenance Inspection Report	3.4.1															
			Plant Quantities	3.4.2	G														
			SD-10 Operation and Maintenance																
			Data																
			Maintenance	3.1															
			SD-11 Closeout Submittals																
			Tree Staking and Guying	3.4.3															
			Removal																
		32 11 23	SD-03 Product Data																
			Plant, Equipment, and Tools	1.4	G	RO													
			SD-06 Test Reports																
			Initial Tests	2.3.1	G	RO													
			In-Place Tests	3.11.1	G	EO													
		32 12 13	SD-03 Product Data																
			Local/Regional Materials	2.2.2															
			SD-06 Test Reports																
			Sampling and Testing	3.7															
		32 12 16.16	SD-03 Product Data																
			Diamond Grinding Plan	2.1.4	G	RO													
			Mix Design	2.4	G	RO													
			Contractor Quality Control	3.1	G	RO													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
West Point Lincoln Hall

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	CLASSIFICATION	GOVT OR A/E REVWR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION			APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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		32 12 16.16	SD-06 Test Reports															
			Aggregates	2.2	G	RO												
			QC Monitoring	3.1.1.7														
			SD-07 Certificates															
			Asphalt Cement Binder	2.3	G	RO												
		32 16 19	SD-03 Product Data															
			Concrete	2.1														
			Biodegradable Form Release Agent	2.6.4														
			Biodegradable Form Release Agent	3.2														
			SD-06 Test Reports															
			Field Quality Control	3.7														
		32 17 23	SD-03 Product Data															
			Surface Preparation Equipment List	2.1.1.1	G	RO												
			Application Equipment List	2.1.2	G	RO												
			Exterior Surface Preparation	3.2														
			Safety Data Sheets	1.3.1	G	RO												
			Waterborne Paint	2.2.1	G	RO												
			Thermoplastic compound	2.2.2	G	RO												
			Thermoplastic compound	3.3.2	G	RO												
			SD-06 Test Reports															
			Waterborne Paint	2.2.1	G	RO												
			Thermoplastic Compound	2.2.2	G	RO												
			Thermoplastic Compound	3.3.2	G	RO												

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		32 17 23	Test Reports	3.4.1															
			SD-07 Certificates																
			Qualifications	1.3.2	G	RO													
			Waterborne Paint	2.2.1															
			Volatile Organic Compound	1.3.1	G	RO													
			Thermoplastic Compound	2.2.2															
			Thermoplastic Compound	3.3.2															
			SD-08 Manufacturer’s Instructions																
			Waterborne Paint	2.2.1	G	RO													
			Thermoplastic Compound	2.2.2	G	RO													
			Thermoplastic Compound	3.3.2	G	RO													
		32 92 19	SD-03 Product Data																
			Wood Cellulose Fiber Mulch	2.5.3															
			Fertilizer	2.4															
			SD-06 Test Reports																
			Topsoil Composition Tests	2.2.3															
			SD-07 Certificates																
			Seed	2.1															
			SD-08 Manufacturer’s Instructions																
			Erosion Control Materials	2.7															
		32 92 23	SD-03 Product Data																
			Fertilizer	2.4	G	RO													
			SD-06 Test Reports																
			Topsoil composition tests	2.2.3	G	RO													
			SD-07 Certificates																
			sods	2.1	G	RO													

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		32 93 00	SD-01 Preconstruction Submittals																
			State Landscape Contractor's License	1.4.3															
			Time Restrictions and Planting Conditions	1.6															
			SD-03 Product Data																
			Peat	2.3.5															
			Composted Derivatives	2.3.8															
			Rotted Manure	2.3.11															
			Organic Mulch Materials	2.6.1															
			Gypsum	2.3.9															
			Mulch	2.6	G														
			Ground Stakes	2.7.1.2															
			Fertilizer	2.5															
			Root Control Barrier	2.10	G														
			Staking Material	2.7.1															
			Metal Anchors	2.7.7															
			Antidesiccants	2.8															
			Erosion Control Materials	2.9															
			Photographs	1.4.4	G														
			SD-04 Samples																
			Mulch	2.6	G														
			SD-06 Test Reports																
			Topsoil Composition Tests	2.2.4															
			Percolation Test	1.4.5															
			SD-07 Certificates																

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		32 93 00	Nursery Certifications	2.1.1														
			SD-10 Operation and Maintenance															
			Data															
			Plastic Identification	1.8														
		33 40 00	SD-02 Shop Drawings															
			Precast Reinforced Concrete	2.3.5	G	RO												
			Manholes															
			Precast Reinforced Concrete	2.2.1	G	RO												
			Storm Inlets and Structures															
			Frames, Covers, and Grates	2.3.6	G	RO												
			SD-03 Product Data															
			Precast Reinforced Concrete	2.3.5														
			Manholes															
			Precast Reinforced Concrete	2.2.1														
			Storm Inlets and Structures															
			Frames, Covers, and Grates	2.3.6														
			SD-06 Test Reports															
			Deflection Testing	3.9.1.3														
			Deflection Testing	3.9.3.2														
			SD-07 Certificates															
			Resin Certification	2.1.1														
			Resin Certification	2.1.2														
			Oil Resistant Gasket	2.3.7.1														
			Leakage Test	3.9.3.1														
			Hydrostatic Test on Watertight	3.9.1.1														
			Joints															

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		33 40 00	Determination of Density	3.9.1.2														
			Frames, Covers, and Grates	2.3.6														
			Post-Installation Inspection	3.9.2.1.2														
			Report															
			SD-11 Closeout Submittals															
			As-Built Drawings	1.4	G	RO												
		33 71 02	SD-02 Shop Drawings															
			Precast underground structures	1.4.1	G													
			SD-03 Product Data															
			Precast concrete structures	2.10.2.1	G													
			Sealing Material	2.10.2.4														
			Pulling-In Irons	3.5.3														
			Manhole frames and covers	2.10.3	G													
			Handhole frames and covers	2.10.4	G													
			Composite/fiberglass handholes	2.10.6	G													
			Protective Devices and	2.13	G													
			Coordination															
			SD-06 Test Reports															
			Field Acceptance Checks and	3.16.1														
			Tests															
			Cable Installation Plan and	3.3	G													
			Procedure															
			SD-07 Certificates															
			Cable Installer Qualifications	1.4.2	G													
		33 82 00	SD-02 Shop Drawings															

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		33 82 00	Telecommunications Outside	1.6.1.1	G													
			Plant															
			Telecommunications Entrance	1.6.1.2	G													
			Facility Drawings															
			SD-03 Product Data															
			Wire and cable	2.7	G													
			Cable splices, and connectors	2.4	G													
			Closures	2.3	G													
			Building protector assemblies	2.2.1	G													
			Protector modules	2.2.2	G													
			Spare Parts	1.8.2	G													
			SD-06 Test Reports															
			Pre-installation tests	3.5.1	G													
			Acceptance tests	3.5.2	G													
			Outside Plant Test Plan	1.6.3	G													
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													
			Key Personnel	1.6.2.2	G													
			Manufacturer's Qualifications	1.6.2.3	G													
			SD-08 Manufacturer’s Instructions															
			Building protector assembly	2.2.1	G													
			installation															
			Cable tensions	3.1.8.1	G													
			Fiber Optic Splices	3.1.9.2	G													
			SD-09 Manufacturer’s Field															
			Reports															

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		33 82 00	Factory Reel Test Data	2.12.1	G														
			SD-10 Operation and Maintenance																
			Data																
			Telecommunications outside	1.6.1.1	G														
			plant (OSP)																
			SD-11 Closeout Submittals																
			Record Documentation	1.8.1	G														

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APPENDIX

Eng Form 4025-R

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TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE For use of this form, see ER 415-1-10; the proponent agency is CECW-CE.	DATE	TRANSMITTAL NO.

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (*This section will be initiated by the contractor*)

TO:	FROM:	CONTRACT NO.	CHECK ONE: ☐ THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL _____

SPECIFICATION SEC. NO. (*Cover only one section with each transmittal*)	PROJECT TITLE AND LOCATION	THIS TRANSMITTAL IS FOR: (*Check one*) ☐ FIO ☐ GA ☐ DA ☐ CR ☐ DA/CR ☐ DA/GA

ITEM NO. (*See Note 3*) a.	DESCRIPTION OF SUBMITTAL ITEM (*Type size, model number/etc.*) b.	SUBMITTAL TYPE CODE (*See Note 8*) c.	NO. OF COPIES d.	CONTRACT DOCUMENT REFERENCE		CONTRACTOR REVIEW CODE g.	VARIATION Enter "Y" if requesting a variation (*See Note 6*) h.	USACE ACTION CODE (*Note 9*) i.
				SPEC. PARA. NO. e.	DRAWING SHEET NO. f.			

REMARKS	I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.	
	NAME OF CONTRACTOR	SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (*List by item No.*)	NAME AND TITLE OF APPROVING AUTHORITY	SIGNATURE OF APPROVING AUTHORITY	DATE

INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.

2. Each Transmittal shall be numbered consecutively. The Transmittal Number typically includes two parts separated by a dash (-). The first part is the specification section number. The second part is a sequential number for the submittals under that spec section. If the Transmittal is a resubmittal, then add a decimal point to the end of the original Transmittal Number and begin numbering the resubmittal packages sequentially after the decimal.

3. The "Item No." for each entry on this form will be the same "Item No." as indicated on ENG FORM 4288-R.

4. Submittals requiring expeditious handling will be submitted on a separate ENG Form 4025-R.

5. Items transmitted on each transmittal form will be from the same specification section. Do not combine submittal information from different specification sections in a single transmittal.

6. If the data submitted are intentionally in variance with the contract requirements, indicate a variation in column h, and enter a statement in the Remarks block describing he detailed reason for the variation.

7. ENG Form 4025-R is self-transmitting - a letter of transmittal is not required.

8. When submittal items are transmitted, indicate the "Submittal Type" (*SD-01 through SD-11*) in column c of Section I.
   Submittal types are the following:
   SD-01 - Preconstruction SD-02 - Shop Drawings SD-03 - Product Data SD-04 - Samples SD-05 - Design Data SD-06 - Test Reports
   SD-07 - Certificates SD-08 - Manufacturer's Instructions SD-09 - Manufacturer's Field Reports SD-10 - O&M Data SD-11 - Closeout

9. For each submittal item, the Contractor will assign Submittal Action Codes in column g of Section I. The U.S. Army Corps of Engineers approving authority will assign Submittal Action Codes in column i of Section I. The Submittal Action Codes are:

   A -- Approved as submitted.
   B -- Approved, except as noted on drawings. Resubmission not required.
   C -- Approved, except as noted on drawings. Refer to attached comments. Resubmission required.
   D -- Will be returned by separate correspondence.
   E -- Disapproved. Refer to attached comments.
   F -- Receipt acknowledged.
   X -- Receipt acknowledged, does not comply with contract requirements, as noted.
   G -- Other action required *(Specify)*
   K -- Government concurs with intermediate design. (*For D-B contracts*)
   R -- Design submittal is acceptable for release for construction. (*For D-B contracts*)

10. Approval of items does not relieve the contractor from complying with all the requirements of the contract.

SECTION 01 33 29

SUSTAINABILITY REPORTING
02/17

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ASHRAE 189.1	(2014) Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

ASTM INTERNATIONAL (ASTM)

ASTM D5456	(2017) Standard Specification for Evaluation of Structural Composite Lumber Products

CALIFORNIA AIR RESOURCES BOARD (CARB)

CARB 93120	(2007) Airborne Toxic Control Measure (ATCM) to Reduce Formaldehyde Emissions from Composite Wood Products

COUNCIL ON ENVIRONMENTAL QUALITY (CEQ) (WHITE HOUSE)

HPSB Guiding Principles	(2016) Guiding Principles for Sustainable Federal Buildings and Determining Compliance with the Guiding Principles for Sustainable Federal Buildings

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)

SCAQMD Rule 1113	(2016) Architectural Coatings
SCAQMD Rule 1168	(2017) Adhesive and Sealant Applications

U.S. DEPARTMENT OF ENERGY (DOE)

Energy Star	(1992; R 2006) Energy Star Energy Efficiency Labeling System (FEMP)

U.S. GREEN BUILDING COUNCIL (USGBC)

LEED BDC Ref Guide	(2013) USGBC LEED Reference Guide for Building Design and Construction, v4

1.2 SUMMARY

This specification includes general requirements and procedures for this

project to be constructed and documented per the federally mandated High Performance and Sustainable Building or HPSB Guiding Principles (GP), , UFC 1-200-02 High Performance and Sustainable Building Requirements, and other requirements identified in this specification.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to this section. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Preliminary High Performance and Sustainable Building Checklist; S, RO

Sustainability Action Plan; S, RO

Preliminary Sustainability eNotebook; G, RO

SD-11 Closeout Submittals

Final High Performance and Sustainable Building Checklist; S, RO

Final Sustainability eNotebook; G, RO

Amended Final Sustainability eNotebook; G, RO

Amended Final High Performance and Sustainable Building Checklist; S, RO

Third Party Certification Certificate, Assessment, or Validation; G, RO

1.4 GUIDING PRINCIPLES VALIDATION (GPV)

Provide construction related sustainability documentation to verify achievement of HPSB Guiding Principles Validation (GPV). Provide the following for GPV:

a. Refer to HPSB Checklist at the end of this specification section. These requirements are based on legislative mandates that must be met by all projects.

b. No variations to the HPSB Checklist are allowed without written consent from the Contracting Officer. Immediately bring to the attention of the Contracting Officer any changes that impact meeting the approved HPSB Guiding Principles Requirements for this project.

c. All work, including "S" submittals, required to incorporate the applicable HPSB Guiding Principles Requirements indicated on the HPSB Checklist and in this contract.

d. Sustainability Action Plan

e. Construction related documentation for the project Sustainability eNotebook, and keep updated with regularly-scheduled construction meetings. Include construction related documentation containing the following components;

(1) HPSB Checklist

(2) Sustainability Action Plan

(3) Documentation illustrating HPSB Guiding Principles Requirements compliance (including "S" submittals)

1.4.1 Sustainability Action Plan

Include the following information in the Sustainability Action Plan:

a. Planned method to achieve each construction related GP requirement.

b. For each designated construction related HPSB Guiding Principles Requirements that is applicable, as defined in UFC 1-200-02, provide justification narrative explaining what precludes achieving specific sustainability requirement or goal. Provide analysis of particular requirement and level to which project is able to comply. Final government-approved narrative(s) must be included with the HPSB Checklist submittal.

c. Name and contact information for: Point of Contact (POC) responsible for ensuring sustainability goals are accomplished and documentation is assembled. For TPC that include on-site visit by third party representative, provide list of required attendees.

d. Include the Indoor Air Quality plan with the Sustainability Action Plan.

1.4.2 Costs

Bear all costs associated with constructing, demonstrating, and documenting that project complies with approved HPSB Guiding Principles Requirements.

1.4.3 Calculations

Provide calculations, product data, labels and product certifications, required in this section to demonstrate compliance with the HPSB Guiding Principles Requirements.

1.4.4 Third Party Certification (TPC)

1.4.4.1 TPC Already Registered

Project is already registered with TPC organization to achieve level of LEED BDC Ref Guide (LEED V4 Silver). Provide TPC checklist for achieving LEED V4 Silver. When applicable, request TPC online access turnover from Government. Manage and provide all documentation for requirements of TPC, and obtain Final Certification or validation. Third Party Certification is met when Government receives TPC organization certificate, assessment, or validation and plaque.

The LEED Reference Guide does not label Prerequisites or Credits using a

numbering system. Prerequisite and Credit numbers are provided in the specifications to provide consistent references between the LEED Project Scorecard, Design team, and Construction team.

The following credits are being substituted with LEEDv4.1 credit criteria.

a. Materials and Resources (MR) Credit 2 Environmental Product Declarations (EPD)

b. MR Credit 3 Sourcing of Raw Materials

c. MR Credit Material Ingredients

d. Indoor Environmental Quality (EQ) Credit

1. Paints and Coatings

2. Adhesives and Sealants

3. Flooring

4. Wall Panels

5. Ceilings

6. Insulation

7. Furniture

8. Composite Wood

e. EQ Credit 4 Indoor Air Quality Assessment

1.4.4.2 TPC Management and Certification

Execute the following TPC Certification, assessment, or validation requirements:

a. Refer to TPC Checklist at the end of this specification section.

b. Immediately bring to the attention of the Contracting Officer any project changes that impact meeting the approved TPC Requirements for this project.

c. Complete all work required to incorporate the applicable TPC Requirements.

d. Maintain the construction related information, and provide replacement pages, in the Sustainability eNotebook pertaining to additions and changes to the approved sustainability requirements. Maintain the Sustainability eNotebook in electronic format. For more explanation, refer to paragraph SUSTAINABILITY eNOTEBOOK. Provide the following components in the Sustainability eNotebook, in addition to the GPV components above:

(1) TPC Checklist

(2) Completed TPC Online forms for each identified requirements

(3) Copy of all correspondence with the TPC organization including proof of TPC registration

(4) Documentation illustrating compliance with TPC requirements and additional documentation as requested by the TPC

(5) TPC Award Certificate, assessment, or validation

e. Provide the following information in the Sustainability Action Plan. Provide this TPC information in addition to the Sustainability Action Plan items above:

(1) Planned method to achieve each TPC requirement.

a) Include the LEEDv4 Materials and Resources (MR) Prerequisite 2 and Credit 5 - Construction and Demolition Waste Management Plan in compliance with 01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.

b) Include the LEEDv4.1 Materials and Resources (MR) Building Products Calculator demonstrating credit requirements based on identified materials.
MR Credit 2 – Option 1 Environmental Product Declarations (EPD)
MR Credit 3 – Sourcing of Raw Materials
MR Credit 4 – Option 1 Material Ingredients

c) Include LEEDv4.1 LEED Low-Emitting Materials Calculator demonstrating credit requirements based on identified material in Table 3-1.

(2) For each TPC requirement that is attempted but not achieved, provide narrative explaining how mission or activity precludes achieving specific sustainability requirement or goal. Provide analysis of particular requirement and level to which project is able to comply.

(3) Provide name and contact information for: Sustainability Point of Contact (POC) and other names of sustainability professionals responsible for ensuring TPC sustainability goals are accomplished and documentation is assembled. Sustainability POCs are also responsible for ensuring GPV required in paragraph GUIDING PRINCIPLES VALIDATION (GPV) above.

f. Bear all costs associated with constructing, demonstrating, and documenting that project complies with approved TPC requirements, including but not limited to:

(1) Final TPC review, certification, assessment, or validation and plaque fees

(2) Online (or offline with secure facilities) TPC management and documentation.

(3) Obtaining TPC certification or validation based on Government-approved sustainability goals.

(4) Construction work required to incorporate TPC requirements.

(5) Submittals required to demonstrate compliance with Government

approved TPC checklists.

g. Provide all calculations, product data, and certifications, assessments, or validations required in this specification to demonstrate compliance with the TPC Requirements.

h. Provide all online (or offline, with secure facilities) TPC management and documentation.

i. Provide all required responses to third party organization.

k. Provide TPC Plaque and Certificate, assessment, or validation. Use format below to create the Plaque, Certificate, assessment, or validation and Letter of Congratulations (when provided). Forward to parties designated by Contracting Officer:

(1) Plaque:

Name: Final Building Name. If unknown, provide Form DD1391 Project Name.

(2) Certificate, Assessment, or Validation:

Project Title, first line: P-(X); Form DD1391 Project Name).

Project Title, second line: UIC (Installation code)

(3) Letter Congratulations (when provided):

Address letter to Facility's Installation Commander Name. Address the letter to an individual person.

l. Once Final TPC is achieved, turn over Administrative rights to online TPC to the Department of Public Works, Public Works Office, Base Civil Engineer, or designee, provided by the Contracting Officer.

1.5 SUSTAINABILITY SUBMITTALS

Provide HPSB Checklist and other documentation in the Sustainability eNotebook to indicate compliance with the sustainability requirements of the project.

1.5.1 High Performance Sustainable Building (HPSB) Checklist

Provide construction documentation that provides proof of and supports compliance with the completed HPSB Checklist.

1.5.1.1 HPSB Checklist Submittals

Submit updated HPSB Checklist with each Sustainability eNotebook submittal. Attach final HPSB Checklist(s) to draft final DD1354 Real Property Record Submittal.

1.5.2 "S" Submittals for Sustainability Documentation

Submit the GPV and TPC sustainability documentation required in this specification as "S" submittals in all affected UFGS Sections.

a. Highlight GPV and TPC compliance data in "S" submittal.

b. Add "S" submittals to the Sustainability eNotebook only after submittal approval, and bookmark them as required in paragraph SUSTAINABILITY eNOTEBOOK below.

c. Ensure all approved "S" submittals (the sustainability documentation requirements) are included in each Sustainability eNotebook submittal.

1.5.3 Sustainability eNotebook

The Sustainability eNotebook is an electronic organizational file that serves as a repository for all required sustainability submittals. To support documentation of compliance with an approved HPSB and TPC checklist, provide and maintain a comprehensive and current Sustainability eNotebook Sustainability eNotebook must contain all required data to support full compliance with the HPSB Guiding Principles Requirements, including:

a. HPSB checklist

b. Sustainable Action Plan

c. Calculations

d. Labels

e. "S" submittals (sustainability documentation requirements)

f. Certifications, assessments, or validations

g. TPC documentation required in paragraph THIRD PARTY CERTIFICATION (TPC) above.

Provide sustainability eNotebook in the form of an Adobe PDF file; bookmark each HPSB Guiding Principles Requirement , TPC requirement,and sub-bookmark at each document. Match format to HPSB Guiding Principles numbering system indicated herein. Maintain up-to-date information, spreadsheets, templates, and other required documentation with each current submittal. For TPC projects, provide a second Table of contents using TPC numbering system, for maintaining documentation unique to TPC.

Contracting Officer may deduct from the monthly progress payment accordingly if Sustainability eNotebook information is not current, until information is updated and on track per project goals.

1.5.3.1 Sustainability eNotebook Submittal Schedule

Provide Sustainability eNotebook Submittals at the following milestones of the project:

a. Preliminary Sustainability eNotebook

Submit preliminary Sustainability eNotebook for approval at the Pre-construction conference. Include Preliminary High Performance and Sustainable Building Checklist and TPC checklist.

b. Construction Progress Meetings. Provide up-to-date GP and TPC documentation in the Sustainability eNotebook and TPC Online tool for

each meeting.

c. Final Sustainability eNotebook

Provide up-to-date Sustainability eNotebook at the Beneficial Occupancy Date (BOD). Final progress payment retainage may be held by Contracting Officer until final sustainability documentation is complete. Submit three electronic copies of the Final Sustainability eNotebook on DVDs to the Government. Include Final High Performance and Sustainable Building Checklist.

d. Amended Final Sustainability eNotebook

Amend and resubmit the Final Sustainability eNotebook to include post-occupancy corrections, updates, and requirements. Include Amended Final High Performance and Sustainable Building Checklist. Final progress payment retainage may be held by Contracting Officer until amended final sustainability documentation is complete. Submit three final electronic copies of the Amended Final Sustainability eNotebook Submittal on DVDs to the Government no longer than 30 days after the GP, TPC designated data collection period.

1.6 DOCUMENTATION REQUIREMENTS

a. Incorporate each of the following HPSB Guiding Principles Requirements into project construction; and provide documentation that proves compliance with each listed requirement. Items below are organized according to the HPSB Guiding Principles. For life-cycle cost analysis requirements, one document with all analyses is acceptable, with Contracting Officer approval.

b. For each of the following paragraphs that require the use of products listed on Government-required websites, provide documentation of the process used to select products, or process used to determine why listed products do not meet project performance requirements.

1.6.1 Commissioning

Submit approved Final Commissioning Report required by Section 01 91 00.15 TOTAL BUILDING COMMISSIONING as proof of this tracking requirement.

1.6.2 Energy Efficient Products

Provide only energy-using products that are Energy Star rated, or have the Federal Energy Management Program (FEMP) recommended efficiency. Where Energy Star or FEMP recommendations have not been established, provide most efficient products that are life-cycle cost effective. Provide only energy using products that meet FEMP requirements for low standby power consumption. Energy efficient products can be found at: https://energy.gov/eere/femp/federal-energy-management-program and https://www.energystar.gov/. Provide the following documentation:

Proof that products are labeled energy efficient and comply with the cited requirements.

1.6.3 Indoor Water Use

Provide only water-consuming products that are EPA WaterSense labeled, or the most efficient water fixtures available that meet the requirements of

ASHRAE 189.1 Section 6.3.2, when EPA WaterSense products are not available. Provide the following documentation:

For products available with EPA WaterSense labeling, proof that fixtures are labeled EPA WaterSense or Energy Star; for all other fixtures, proof they comply with the cited efficiency requirements.

1.6.4 Reduce Volatile Organic Compounds (VOC) (Low Emitting Materials)

Meet the requirements of Table 3-1 at the end of this specification. Provide the following documentation:

Provide certifications or labels that demonstrate compliance with cited requirements.

1.6.5 Indoor Air Quality During Construction

Prior to construction, create indoor air quality (IAQ) plan. Develop and implement the IAQ construction management plan during construction and flush building air before occupancy.

For new construction and for renovation of unoccupied existing buildings, indoor air quality plan must meet the requirements of ASHRAE 189.1 Section 10.3.1.4. (Indoor Air Quality (IAQ) Construction Management), with maximum outdoor air consistent with achieving relative humidity no greater than 60 percent.

Provide documentation showing that after construction ends and prior to occupancy, HVAC filters were replaced and area air was flushed out in accordance with the cited standard.

1.6.6 LEED v4.1 Materials and Resources Credits

1.6.6.1 LEED v4.1 MR Credit 2 - Option 1 Environmental Product Declarations (EPD)

Provide at least 40 different permanently installed products sourced from at least five different manufacturers that demonstrate one of the following declarations for at least cradle-to-gate scope.

a. Product-Specific Declaration: Contribute to LEED MR credit calculations as one whole (1) product.

b. Industry-Wide (Generic) EPD: Contribute to LEED MR credit calculations as one whole (1) product.

c. Product-Specific Type III EPD Contribute to LEED MR credit calculations as one and a half (1.5) products.

d. Furniture and other non-building products not addressed by Product Category Rules (PCR) standard EN 15804 or ISO 21930: Conform to ISO 14025.

1.6.6.2 LEEDv4.1 MR Credit 3 – Sourcing of Raw Materials

Provide at least 30 percent of permanently installed products in the project, by material cost value compared to total cost of construction, from at least five different manufacturers, that demonstrate one the following sourcing criteria.

a. Product purchased from a manufacturer that participates in an Extended Producer Responsibility (EPR) program or is directly responsible for the program: Contribute to LEED MR credit calculations at 50 percent of the material cost value.

    1. Provide the following documentation: Manufacturer-based brochure or letter from manufacturer describing the EPR program, contact information, proof that product is included in the program. For Third-party program: Brochure describing recycling process and average rate of return for the material.

b. Bio-based products: Legally harvested bio-based products tested using ASTM Test Method D6866 (other than wood, leather, or other animal skin products) or BioPreferred label: Contribute to LEED MR calculations at 50 percent of the material cost value.

    Products that meet SAN standard: Contribute to LEED MR calculations at 100 percent of the material cost value.

    1. Provide products and material composed of the highest percentage of biobased materials, consistent with FSRIA 9002 USDA BioPreferred Program, to the maximum extent possible without jeopardizing the intended end use or detracting from the overall quality delivered to the end user. Use only supplies and materials of a type and quality that conform to applicable specifications and standards.

    2. Comply with FSRIA 9002 USDA BioPreferred Program. Refer to https://www.biopreferred.gov/BioPreferred/ for the product categories and BioPreferred Catalog. Selected products must comply with non-proprietary requirements of the Federal Acquisition Regulation, and must meet performance requirements.

    3. Provide the following documentation:

        a) USDA BioPreferred label for each product; for bio-based products used on project but not listed with BioPreferred program, provide bio-based content and percentage.

        b) In order to complete compliance with FAR 52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts, refer to submittal requirement for biobased products in Section 01 78 00.

c. Wood products certified by Forest Stewardship Council (FSC) with Chain of Custody (CoC) certificate: Contribute to LEED MR credit calculations at 100 percent of the material cost value.

    FSC Pure and FSC Mixed Credit are valued at 100 percent of material cost value.

    FSC Mixed (NN) percent are valued at indicated percentage of their material cost value.

    FSC Recycled and FSC Recycled Credit contribute 100 percent post-consumer recycled content value (not as certified wood).

    FSC bamboo-based products contribute to this credit.

1. Provide the following documentation: Product data stating percentage new wood, percentage FSC. Include CoC certificates for manufacturer and vendor. Include vendor invoice stating FSC CoC number by line item.

d. Reused materials: Contribute to LEED MR credit calculations at 200 percent of the material cost value.

1. Provide the following documentation: Invoices stating source, end-use for reused materials, and material replacement cost value.

e. Recycled content products: Contribute to LEED MR credit calculations at 100 percent of the material cost value.

Calculate recycled content as the sum of a product’s post-consumer recycled content plus one half (1/2) of the pre-consumer recycled content.

1. Comply with 40 CFR 247. Refer to https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program for assistance identifying products cited in 40 CFR 247. Selected products must comply with non-proprietary requirements of the Federal Acquisition Regulation, and must meet performance requirements.

2. Provide the following documentation: Manufacturers’ product data stating percentages by weight of total assembly pre-consumer and post-consumer recycled content, or written justification for claiming one of the exceptions allowed on the cited website.

3. Substitutions: Submit for Government approval, proposed alternative products or systems that provide equivalent performance and appearance and have greater contribution to project recycled content requirements. For all such proposed substitutions, submit with the Sustainability Action Plan accompanied by product data demonstrating equivalence.

4. In order to complete compliance with FAR 52.223-9 Estimate of Percentage of Recovered Material Content for EPA Designated Items, refer to submittal requirement for recycled/recovered material content in Section 01 78 00.

f. In addition to the credit base criteria stated above for sourcing of raw materials, products that are regionally sourced (extracted, manufactured, purchased) within 100 miles of the Project site:

Contribute to LEED MR credit calculation at 200 percent of material cost value.

Before regional source multiplier is applied to LEED MR credit calculations, a product material cost value must not exceed 100 percent.

Single product components compliant with multiple responsible extraction criteria contribute only once to LEED MR credit calculations.

No single product contributes more than 200 percent of material cost value to LEED MR credit calculations.

Calculate material cost value per LEED guidelines for MR credits.

1. Provide the following documentation: Manufacturer statement indicating location of extraction, manufacture, purchase of primary raw materials.

1.6.6.3 LEED v4.1 MR Credit 4 – Option 1 Material Ingredients

Provide at least 20 different permanently installed products sourced from at least five different manufacturers that demonstrate chemical inventory programs to at least one tenth percent (0.1%) or 1000 parts per million (ppm) of the end use product. Provide documentation to demonstrate one of the following material ingredient reports:

a. Published manufacturer content inventory demonstrating one of the following.

1. Publicly available inventory of all ingredients identified by name and Chemical Abstract Service Registration Number (CASRN).

2. Materials defined as trade secret of intellectual property: Disclose role, amount and hazard screen using one of the following.

a) GreenScreen List Translator (LT) score

b) Full GreenScreen Benchmark (BM)
Global Harmonized System (GHS) of Classification and Labeling Chemicals revision 6 (2015)

c) ANSI / BIFMA e3 Furniture Sustainability Standard: Demonstrate at least three points under 7.5.1.3 Advanced level in e3-2014 or 7.4.1.3 Advanced Level in e3-2012

b. Cradle to Cradle

1. Certified version 3 or later, Bronze level or higher.

2. Material Health Certificate version 3 or later, Bronze level or higher.

c. Declare Product Label

1. Red List Free

2. LBC Red List Free

3. Declared

4. Declare Product Label LBC Compliant or LBC Red List Approved: Demonstrate compliance for content inventory to 1000 parts per million (0.1%).

d. Facts – NSF / ANSI 336: Sustainability Assessment for Commercial Furnishings Fabric

e. Global GreenTag PHD labels issued after January 1, 2020

f. Health Product Declaration (HPD): Demonstrate full disclosure of known

hazards in compliance with the HPD Open Standard.

g. Living Product Challenge Certified

h. UL’s Product Lens Certification

1.6.7 Waste Material Management (Recycling – Construction)

Divert construction debris from landfill disposal where markets or on-site recycling exists, and provide documentation in accordance with Section 01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.

1.6.8 Additional Sustainability Requirements

1.6.8.1 Validation and Certification Restrictions

Purchase of renewable energy certificates (RECs) specifically to meet project sustainability goals is prohibited.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 SUSTAINABILITY COORDINATION

3.1.1 Coordinating Sustainability Documentation Progress

Provide sustainability focus and coordination at the following meetings to achieve sustainability goals. The designated TPC accredited sustainability professional responsible for GP and TPC documentation must participate in the following meetings to coordinate documentation completion.

a. Pre-Construction Conference: Discuss the following: TPC and HPSB Checklists, Sustainability Action Plan, Construction submittal requirements and schedule, individuals responsible for achieving each Guiding Principle Requirement and TPC prerequisite and credit.

b. Construction Progress Meetings: Review GP and TPC sustainability requirements with project team including Contractor and sub-contractor representatives. Demonstrate GP and TPC documentation is being collected and updated to the Sustainability eNotebook and TPC Online tool.

(1) For TPC that include on-site visit by third party representative, execute, coordinate, and facilitate the visit.

(2) Facility Turnover Meetings: Review Sustainability eNotebook, and TPC Online submission for completeness and identify any outstanding issues relating to final documentation requirements.

(3) Final Sustainability eNotebook Review

3.2 THIRD PARTY CERTIFICATION CERTIFICATE, ASSESSMENT, OR VALIDATION

Finalize the sustainability certification or validation process and obtain the TPC Plaque and Certificate, assessment, or validation, indicating

completion of the projects sustainability goals.

Provide three copies of original certificate, assessment, or validation, and deliver to Contractor Officer, unless otherwise instructed. Provide and hang Plaque in a prominent interior location approved by the Contracting Officer.

3.3 TABLE 3-1 VOLATILE ORGANIC COMPOUNDS (VOC) (LOW EMITTING MATERIALS) REQUIREMENTS

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	EMISSIONS REQUIREMENT		MATERIALS WITH ADDED VOC REQUIREMENT	MATERIAL CATEGORY
Adhesives and Sealants	**CDPH/EHLB/Standard method V1.1 (California Section 01350)** (Use "office" limits for all applications)	and	Adhesives (carpet, resilient, wood flooring; panel; primers) Sealants (acoustical; firestop; HVAC Air duct; primers) Caulks	**SCAQMD Rule 1168** (Use "other" category for HVAC duct sealant) (for firestop adhesive, UFC 3-600-01 overrides conflicting requirements)
			Aerosol adhesives	**Section 3 of Green Seal Standard GS-36** (except: cleaners; HVAC air duct sealants when the application space air temp is less than 40 F (4.5 C).

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	EMISSIONS REQUIREMENT		MATERIALS WITH ADDED VOC REQUIREMENT	MATERIAL CATEGORY
Paints and Coatings	**CDPH/EHLB/Standard method V1.1 (California Section 01350)** (Use "office" limits for all applications)	and	Flat and nonflat topcoats, primers, undercoaters, and anti-corrosive coatings	CARB 93120 California Air Resource Board (CARB) 2007 Suggested Control Measure (SCM) for Architectural Coatings OR South Coast Air Quality Management District (SCAQMD) Rule 1113, effective February 5, 2016

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	EMISSIONS REQUIREMENT		MATERIALS WITH ADDED VOC REQUIREMENT	MATERIAL CATEGORY
Paints and Coatings	**CDPH/EHLB/Standard method V1.1 (California Section 01350)** (Use "office" limits for all applications)	and	Concrete/masonry sealers (waterproofing concrete/masonry sealers), concrete curing compounds, dry fog coatings, faux finishing coatings, fire resistive coatings, floor coatings, graphic arts (sign) coatings, industrial maintenance coatings, mastic texture coatings, metallic pigmented coatings, multicolor coatings, pretreatment wash primers, reactive penetrating sealers, recycled coatings, shellacs (clear and opaque), specialty primers, stains, wood coatings (clear wood finishes), wood preservatives, and zinc primers	**California Air Resources Board (CARB) Suggested Control Measure for Architectural Coatings** or **SCAQMD Rule 1113**

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	**EMISSIONS REQUIREMENT**		**MATERIALS WITH ADDED VOC REQUIREMENT**	**MATERIAL CATEGORY**
Paints and Coatings	**CDPH/EHLB/Standard method V1.1 (California Section 01350)** (Use "office" limits for all applications)	and	Basement specialty coatings, high-temperature coatings, low solids coatings, stone consolidants, swimming-pool coatings, tub- and tile-refining coatings, and waterproofing membranes	**California Air Resources Board (CARB) Suggested Control Measure for Architectural Coatings**
Floor Covering Materials	For carpet, resilient flooring, and base all locations: **CDPH/EHLB/Standard Method V1.1 (California Section 01350)** or label for **Section 9** of **CDPH/EHLB/Standard Method V1.1 (California Section 01350)**; Use "office" limits for all applications		none	none

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	EMISSIONS REQUIREMENT		MATERIALS WITH ADDED VOC REQUIREMENT	MATERIAL CATEGORY
Composite Wood, Wood Structural Panel, and Agrifiber Products particleboard medium density fiberboard (MDF) wheatboard strawboard panel substrates door cores **no added urea-formaldehyde resins** including laminating adhesives for composite wood and agrifiber assemblies	Certified as ultra-low-emitting formaldehyde (ULEF) product under EPA Toxic Substances Control Act, Formaldehyde Emission Standards for Composite Wood Products (TSCA, Title VI) (EPA TSCA Title VI)or California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) OR Certified as no added formaldehyde resins (NAF) product under EPA TSCA Title VI or CARB ATCM OR Wood structural panel manufactured according to PS 1-09 or PS 2-10 (or one of the standards considered by CARB to be equivalent to PS 1 or PS 2) and labeled bond classification Exposure 1 or Exterior OR		none	none

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	EMISSIONS REQUIREMENT		MATERIALS WITH ADDED VOC REQUIREMENT	MATERIAL CATEGORY
	Structural wood product manufactured according to ASTM D5456 (for structural composite lumber), ANSI A190.1 (for glued laminated timber), ASTM D5055 (for I-joists), ANSI PRG 320 (for cross-laminated timber), or PS 20-15 (for finger-jointed lumber).			
Office Furniture Systems and Seating installed prior to occupancy	**ANSI/BIFMA X7.1 ANSI/BIFMA X7.1:** (95 percent of installed office furniture system workstations and seating units) **Section 7.6.2 of ANSI/BIFMA e3** (50 percent of office furniture system workstations and seating units)		none	none

TABLE 3-1 Volatile Organic Compounds (VOC) (Low Emitting Materials) Requirements

Source: ASHRAE 189.1 section 8.4.2 (Materials)(Interior Applications Only)

MATERIAL CATEGORY	EMISSIONS REQUIREMENT		MATERIALS WITH ADDED VOC REQUIREMENT	MATERIAL CATEGORY
Ceiling and Wall Systems acoustical ceiling panels gypsum board, plaster, wall covering, wall paneling, cubicle curtain, partition wall, doors, window treatments, acoustic and thermal insulation installed within the building waterproofing envelop	**CDPH/EHLB/Standard method V1.1 (California Section 01350)** (Use "office" limits for all applications)		none	none

-- End of Section --

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Energy & Sustainability Record Card

PROJECT INFORMATION

Project No.: 94077 FY 2023 MILCON Project No. / Other Customer Reference No.:
Project Title: Repair Lincoln Hall, Bldg 607, General Instructions Building, Admissions
Location: West Point Campus
USACE Project Manager: Jeffery Friese Project Design Level: 100%
Facility Area: 60,495 Units (SF/SM): SF Category Code: 61050 Facility #: 607

AE Firm Name: JACOBS/ Ewing Cole JV
AE Contract # & T.O.: W912-DS-19-C-0031 AE Sustainability POC: Tiombe Parrish

Construction Contractor: Award Date:
Construction Contract & T.O.: BOD Date:
Contractor Sustainability POC:

SUSTAINABILITY DATA - GUIDING PRINCIPLES for SUSTAINABLE DEVELOPMENT

OVERALL COMPLIANCE:

- (●) **Complies with UFC 1-200-02 and Agency Sustainability Policy Building**
- ( ) **does not meet the criteria for tracking in UFC 1-200-02/Policy**
- ( ) **An Exemption has been:** ( ) **Requested** ( ) **Granted** ( ) **N/A**

BUILDING IDENTIFICATION:

1 How many buildings are included in this project? 1

2 Of those, which building is this form for? Bldg 607

3 New building or stand-alone addition greater than or equal to 10,000 GSF? Yes [ ] No [✔]

- If project is for more than one building for which tracking is required, complete a separate form for each building.

- If an element was not achieved at project completion, mark "Not Attained" and include a justification in the "Not attained reason" field.

DOCUMENTATION OF COMPLIANCE WITH GUIDING PRINCIPLES

I. Employ Integrated Design Principles

1 Integrated Design

Attained In Compliance [✔] Yes [ ] N/A [ ] Not Attained

N/A due to
[ ] Mission preclusion [ ] Building/site issue
[ ] Not LCCE [ ] Renovation only: not part of scope
[ ] Installation/region issue

Not attained reason

2 Commissioning

Attained In Compliance [✔] Yes [ ] N/A [ ] Not Attained

N/A due to
[ ] Mission preclusion [ ] Building/site issue
[ ] Not LCCE [ ] Renovation only: not part of scope
[ ] Installation/region issue

Not attained reason

(i) Systems commissioned

II. Optimize Energy Performance

3. Energy Efficiency

Attained In Compliance ☐ Yes ☑ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☑ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason: Renovation of a 100+ year old building

(i) Energy Savings Below Baseline % 5.3

(ii) Energy Standard

☑ ASHRAE 90.1-2013 (06NOV16+) ☐ IECC

☐ ASHRAE 90.1-2016 ☐ OTHER:

C. Energy Efficient Products

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason:

4. Renewable Energy

Attained In Compliance ☐ Yes ☑ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☑ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason:

A. Renewable energy technology types

☐ Geothermal ☐ Daylighting (quantified passive)

☐ Ground Source Heat Pumps ☐ Mechanical (i.e., direct water pumping)

☐ Solar Photovoltaic ☐ Micro-hydro

☐ Solar Thermal - domestic hot water ☐ Concentrating (sterling)

☐ Solar Thermal - space conditioning ☐ Wind

(i) Annual % of total load

(ii) System size (kwatts)

B. Solar Hot Water Percentage - 30% target

Attained In Compliance ☐ Yes ☑ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☑ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason:

(i) Annual % of total load _____

(ii) System size (kBTU/Year) _____

5. Meter (Energy)

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

6. Energy Use Intensity kBTU/Sq Ft/Year

(i) Total Design Energy Use Intensity (EUI): kBTU/Sq Ft/Year

III. Protect and Conserve Water

7. Indoor Water Use

A. Water-Efficient Products

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

(i) Total Design Indoor Water Use Intensity (WUI): Gallons/Sq Ft/Year

B. Indoor Water Meter

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

8. Outdoor Water Use

A. Outdoor Water Meter (for 25,000 SF of irrigation)

(i) Is there a permanent irrigation system serving more than 25,000 SF of landscaping?

☐ Yes ☑ No

(ii) Water Meter

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

B. Water-efficient landscape

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

9. Alternative Water Use

Attained In Compliance ☐ Yes ☑ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue
☐ Not LCCE ☑ Renovation only: not part of scope
☐ Installation/region issue

Not attained reason

Methods Used:

☐ Air Handler Condensate Capture ☐ Reclaimed Water
☐ Grey Water ☐ Treated Wastewater
☐ Harvested Rainwater ☐ OTHER:

10. Stormwater Management - update the LID Data tab

IV. Enhance Indoor Environmental Quality

11. Ventilation and Thermal Comfort

A. Ventilation

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue
☐ Not LCCE ☐ Renovation only: not part of scope
☐ Installation/region issue

Not attained reason

B. Thermal Comfort

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue
☐ Not LCCE ☐ Renovation only: not part of scope
☐ Installation/region issue

Not attained reason

12. Daylighting and Lighting Controls

A. Daylight

Attained In Compliance ☐ Yes ☑ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☑ Building/site issue
☐ Not LCCE ☐ Renovation only: not part of scope
☐ Installation/region issue

Not attained reason

B. Automatic dimming controls

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue
☐ Not LCCE ☐ Renovation only: not part of scope
☐ Installation/region issue

Not attained reason

13. Indoor Air Quality

A. Moisture Control

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

B. Low-Emitting Materials

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

C. Indoor Air Quality during Construction

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

14. Occupant Health and Wellness

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

V. Reduce the Environmental Impact of Materials

15. Material Content and Performance

A. Resource Conservation and Recovery Act (RCRA) Section 6002 (recycled content)

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

B. Farm Security and Rural Investment Act (FSRIA) section 9002 (Biobased content)

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

16. Waste Management

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

17. Waste Diversion - 60% target

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

(i) Percent diverted _____

VI. Assess and Consider Climate Change Risks

18. Address Climate Change Risk

Attained In Compliance ☑ Yes ☐ N/A ☐ Not Attained

N/A due to

☐ Mission preclusion ☐ Building/site issue

☐ Not LCCE ☐ Renovation only: not part of scope

☐ Installation/region issue

Not attained reason

THIRD PARTY CERTIFICATION INFORMATION

Is this building pursuing Third Party Certification? ☐ Yes ☑ No

Reason not included: Government has directed this project to be certifiable, but is not currently pur

Sustainability Third Party Certification Rating

Third Party Certification Rating System and Level

☐ USGBC LEED Certified

☐ USGBC LEED Silver

☐ USGBC LEED Gold

☐ USGBC LEED Platinum

☐ USGBC "Guiding Principles Assessment"

☐ OTHER:

☐ GBI Green Globes 1 Globe

☐ GBI Green Globes 2 Globes

☐ GBI Green Globes 3 Globes

☐ GBI Green Globes 4 Globes

☐ GBI "Guiding Principles Compliance"

LEED v4 BD+C: New Construction and Major Renovation

Project Checklist

Project Name: **Lincoln Hall**
Date: **12/14/2022**

Y	?Y	?N	N			
1				IPc1	Integrative Process	1

Y	?Y	?N	N		Location and Transportation	16
			N	LTc1	LEED for Neighborhood Development Location	16
1				LTc2	Sensitive Land Protection	1
2				LTc3	High Priority Site	2
5				LTc4	Surrounding Density and Diverse Uses	5
			5	LTc5	Access to Quality Transit	5
			1	LTc6	Bicycle Facilities	1
1				LTc7	Reduced Parking Footprint	1
			1	LTc8	Green Vehicles	1

Y	?Y	?N	N		Sustainable Sites	10
Y				SSp1	Construction Activity Pollution Prevention	Required
1			0	SSc1	Site Assessment	1
			2	SSc2	Site Development - Protect or Restore Habitat	2
			1	SSc3	Open Space	1
			3	SSc4	Rainwater Management	3
			2	SSc5	Heat Island Reduction	2
			1	SSc6	Light Pollution Reduction	1

Y	?Y	?N	N		Water Efficiency	11
Y				WEp1	Outdoor Water Use Reduction	Required
Y				WEp2	Indoor Water Use Reduction	Required
Y				WEp3	Building-Level Water Metering	Required
2				WEc1	Outdoor Water Use Reduction	2
5			1	WEc2	Indoor Water Use Reduction	6
			2	WEc3	Cooling Tower Water Use *(or alt. compliance for projects w/o C-Towers)*	2
			1	WEc4	Water Metering	1

Y	?Y	?N	N		Energy and Atmosphere	33
Y				EAp1	Fundamental Commissioning and Verification	Required
Y				EAp2	Minimum Energy Performance	Required
Y				EAp3	Building-Level Energy Metering	Required
Y				EAp4	Fundamental Refrigerant Management	Required
6				EAc1	Enhanced Commissioning	6
			18	EAc2	Optimize Energy Performance	18
1				EAc3	Advanced Energy Metering	1
			2	EAc4	Demand Response	2
			3	EAc5	Renewable Energy Production	3
			1	EAc6	Enhanced Refrigerant Management	1
			2	EAc7	Green Power and Carbon Offsets	2

Y	?Y	?N	N		Materials and Resources	13
Y				MRp1	Storage and Collection of Recyclables	Required
Y				MRp2	Construction and Demolition Waste Management Planning	Required
5				MRc1	Building Life-Cycle Impact Reduction	5
1			1	MRc2	Bldg. Product Disclosure and Opt. - Environmental Product Declarations	2
1			1	MRc3	Bldg. Product Disclosure and Opt. - Sourcing of Raw Materials	2
1			1	MRc4	Bldg. Product Disclosure and Opt. - Material Ingredients	2
2				MRc5	Construction and Demolition Waste Management	2

Y	?Y	?N	N		Indoor Environmental Quality	16
Y				IEQp1	Minimum Indoor Air Quality Performance	Required
Y				IEQp2	Environmental Tobacco Smoke Control (SUST place doc for this)	Required
2				IEQc1	Enhanced Indoor Air Quality Strategies	2
3				IEQc2	Low-Emitting Materials (per Linda we can use this as an innovation potentially)	3
1				IEQc3	Construction Indoor Air Quality Management Plan	1
2				IEQc4	Indoor Air Quality Assessment	2
1				IEQc5	Thermal Comfort	1
1			1	IEQc6	Interior Lighting	2
			3	IEQc7	Daylight	3
			1	IEQc8	Quality Views	1
			1	IEQc9	Acoustic Performance	1

Y	?Y	?N	N		Innovation	6
1				INc1.1	Innovation: Purchasing Lamps	1
1				INc1.2	Innovation: Occupant Comfort Survey	1
1				INc1.3	Exemplary Performance: Low Emitting Materials	1
1				INc1.4	Exemplary Performance: Enviromental Product Declarations	1
			1	INc1.5	Innovation: TBD	1
1				INc2	LEED Accredited Professional	1

Y	?Y	?N	N		Regional Priority	4
1				RPc1	High Priority Site	1
1				RPc2	Indoor Water Use Reduction	1
1				RPc3	Life Cycle Impact Reduction	1
			1	RPc4		1

Y	?Y	?N	N		Possible Points:
53	0	0	57	**TOTALS**	**110**

Certified: 40 to 49 points, **Silver: 50 to 59 points**, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

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SECTION 01 35 26

GOVERNMENTAL SAFETY REQUIREMENTS
11/20

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ASME B30.3	(2020) Tower Cranes
ASME B30.5	(2018) Mobile and Locomotive Cranes
ASME B30.7	(2016) Winches
ASME B30.8	(2015) Floating Cranes and Floating Derricks
ASME B30.9	(2018) Slings
ASME B30.20	(2018) Below-the-Hook Lifting Devices
ASME B30.22	(2016) Articulating Boom Cranes
ASME B30.23	(2016) Personnel Lifting Systems Safety Standard for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks, and Slings
ASME B30.26	(2015; R 2020) Rigging Hardware

AMERICAN SOCIETY OF SAFETY PROFESSIONALS (ASSP)

ASSP A10.22	(2007; R 2017) Safety Requirements for Rope-Guided and Non-Guided Workers’ Hoists
ASSP A10.34	(2001; R 2012) Protection of the Public on or Adjacent to Construction Sites
ASSP A10.44	(2020) Control of Energy Sources (Lockout/Tagout) for Construction and Demolition Operations
ASSP Z244.1	(2016) The Control of Hazardous Energy Lockout, Tagout and Alternative Methods
ASSP Z359.0	(2018) Definitions and Nomenclature Used for Fall Protection and Fall Arrest
ASSP Z359.1	(2016) The Fall Protection Code
ASSP Z359.2	(2017) Minimum Requirements for a Comprehensive Managed Fall Protection

	Program
ASSP Z359.3	(2019) Safety Requirements for Lanyards and Positioning Lanyards
ASSP Z359.4	(2013) Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components
ASSP Z359.6	(2016) Specifications and Design Requirements for Active Fall Protection Systems
ASSP Z359.7	(2019) Qualification and Verification Testing of Fall Protection Products
ASSP Z359.11	(2014) Safety Requirements for Full Body Harnesses
ASSP Z359.12	(2019) Connecting Components for Personal Fall Arrest Systems
ASSP Z359.13	(2013) Personal Energy Absorbers and Energy Absorbing Lanyards
ASSP Z359.14	(2014) Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems
ASSP Z359.15	(2014) Safety Requirements for Single Anchor Lifelines and Fall Arresters for Personal Fall Arrest Systems
ASSP Z359.16	(2016) Safety Requirements for Climbing Ladder Fall Arrest Systems
ASSP Z359.18	(2017) Safety Requirements for Anchorage Connectors for Active Fall Protection Systems

ASTM INTERNATIONAL (ASTM)

ASTM F855	(2019) Standard Specifications for Temporary Protective Grounds to Be Used on De-energized Electric Power Lines and Equipment

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

IEEE 1048	(2016) Guide for Protective Grounding of Power Lines
IEEE C2	(2017; Errata 1-2 2017; INT 1 2017) National Electrical Safety Code

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 10	(2018; ERTA 1-2 2018) Standard for Portable Fire Extinguishers

NFPA 51B	(2019) Standard for Fire Prevention During Welding, Cutting, and Other Hot Work
NFPA 70	(2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA 20-1; TIA 20-2; TIA 20-3; TIA 20-4) National Electrical Code
NFPA 70E	(2018; TIA 18-1; TIA 81-2) Standard for Electrical Safety in the Workplace
NFPA 241	(2019) Standard for Safeguarding Construction, Alteration, and Demolition Operations

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA)

TIA-222	(2018H; Add 1 2019) Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures
TIA-1019	(2012; R 2016) Standard for Installation, Alteration and Maintenance of Antenna Supporting Structures and Antennas

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety and Health Requirements Manual

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

10 CFR 20	Standards for Protection Against Radiation
29 CFR 1910	Occupational Safety and Health Standards
29 CFR 1910.146	Permit-required Confined Spaces
29 CFR 1910.147	The Control of Hazardous Energy (Lock Out/Tag Out)
29 CFR 1910.333	Selection and Use of Work Practices
29 CFR 1915	Confined and Enclosed Spaces and Other Dangerous Atmospheres in Shipyard Employment
29 CFR 1915.89	Control of Hazardous Energy (Lockout/Tags-Plus)
29 CFR 1926	Safety and Health Regulations for Construction
29 CFR 1926.16	Rules of Construction
29 CFR 1926.450	Scaffolds
29 CFR 1926.500	Fall Protection

29 CFR 1926.552	Material Hoists, Personal Hoists, and Elevators
29 CFR 1926.553	Base-Mounted Drum Hoists
29 CFR 1926.1400	Cranes and Derricks in Construction
49 CFR 173	Shippers - General Requirements for Shipments and Packagings
CPL 02-01-056	(2014) Inspection Procedures for Accessing Communication Towers by Hoist
CPL 2.100	(1995) Application of the Permit-Required Confined Spaces (PRCS) Standards, 29 CFR 1910.146

1.2 DEFINITIONS

1.2.1 Competent Person (CP)

The CP is a person designated in writing, who, through training, knowledge and experience, is capable of identifying, evaluating, and addressing existing and predictable hazards in the working environment or working conditions that are dangerous to personnel, and who has authorization to take prompt corrective measures with regards to such hazards.

1.2.2 Competent Person, Confined Space

The CP, Confined Space, is a person meeting the competent person requirements as defined EM 385-1-1 Appendix Q, with thorough knowledge of OSHA’s Confined Space Standard, 29 CFR 1910.146, and designated in writing to be responsible for the immediate supervision, implementation and monitoring of the confined space program, who through training, knowledge and experience in confined space entry is capable of identifying, evaluating and addressing existing and potential confined space hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

1.2.3 Competent Person, Cranes and Rigging

The CP, Cranes and Rigging, as defined in EM 385-1-1 Appendix Q, is a person meeting the competent person, who has been designated in writing to be responsible for the immediate supervision, implementation and monitoring of the Crane and Rigging Program, who through training, knowledge and experience in crane and rigging is capable of identifying, evaluating and addressing existing and potential hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

1.2.4 Competent Person, Excavation/Trenching

A CP, Excavation/Trenching, is a person meeting the competent person requirements as defined in EM 385-1-1 Appendix Q and 29 CFR 1926, who has been designated in writing to be responsible for the immediate supervision, implementation and monitoring of the excavation/trenching program, who through training, knowledge and experience in excavation/trenching is capable of identifying, evaluating and addressing existing and potential hazards and, who has the authority to take prompt

corrective measures with regard to such hazards.

1.2.5 Competent Person, Fall Protection

The CP, Fall Protection, is a person meeting the competent person requirements as defined in EM 385-1-1 Appendix Q and in accordance with ASSP Z359.0, who has been designated in writing by the employer to be responsible for immediate supervising, implementing and monitoring of the fall protection program, who through training, knowledge and experience in fall protection and rescue systems and equipment, is capable of identifying, evaluating and addressing existing and potential fall hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

1.2.6 Competent Person, Scaffolding

The CP, Scaffolding is a person meeting the competent person requirements in EM 385-1-1 Appendix Q, and designated in writing by the employer to be responsible for immediate supervising, implementing and monitoring of the scaffolding program. The CP for Scaffolding has enough training, knowledge and experience in scaffolding to correctly identify, evaluate and address existing and potential hazards and also has the authority to take prompt corrective measures with regard to these hazards. CP qualifications must be documented including experience on the specific scaffolding systems/types being used, assessment of the base material that the scaffold will be erected upon, load calculations for materials and personnel, and erection and dismantling. The CP for scaffolding must have a documented minimum of 8-hours of scaffold training to include training on the specific type of scaffold being used (e.g. mast-climbing, adjustable, tubular frame), in accordance with EM 385-1-1 Section 22.B.02.

1.2.7 Competent Person (CP) Trainer

A competent person trainer as defined in EM 385-1-1 Appendix Q, who is qualified in the training material presented, and who possesses a working knowledge of applicable technical regulations, standards, equipment and systems related to the subject matter on which they are training Competent Persons. A competent person trainer must be familiar with the typical hazards and the equipment used in the industry they are instructing. The training provided by the competent person trainer must be appropriate to that specific industry. The competent person trainer must evaluate the knowledge and skills of the competent persons as part of the training process.

1.2.8 High Risk Activities

High Risk Activities are activities that involve work at heights, crane and rigging, excavations and trenching, scaffolding, electrical work, and confined space entry.

1.2.9 High Visibility Accident

A High Visibility Accident is any mishap which may generate publicity or high visibility.

1.2.10 Load Handling Equipment (LHE)

LHE is a term used to describe cranes, hoists and all other hoisting equipment (hoisting equipment means equipment, including crane, derricks,

hoists and power operated equipment used with rigging to raise, lower or horizontally move a load).

1.2.11 Medical Treatment

Medical Treatment is treatment administered by a physician or by registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment even when provided by a physician or registered personnel.

1.2.12 Near Miss

A Near Miss is a mishap resulting in no personal injury and zero property damage, but given a shift in time or position, damage or injury may have occurred (e.g., a worker falls off a scaffold and is not injured; a crane swings around to move the load and narrowly misses a parked vehicle).

1.2.13 Operating Envelope

The Operating Envelope is the area surrounding any crane or load handling equipment. Inside this "envelope" is the crane, the operator, riggers and crane walkers, other personnel involved in the operation, rigging gear between the hook, the load, the crane's supporting structure (i.e. ground or rail), the load's rigging path, the lift and rigging procedure.

1.2.14 Qualified Person (QP)

The QP is a person designated in writing, who, by possession of a recognized degree, certificate, or professional standing, or extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems related to the subject matter, the work, or the project.

1.2.15 Qualified Person, Fall Protection (QP for FP)

A QP for FP is a person meeting the definition requirements of EM 385-1-1 Appendix Q, and ASSP Z359.2 standard, having a recognized degree or professional certificate and with extensive knowledge, training and experience in the fall protection and rescue field who is capable of designing, analyzing, and evaluating and specifying fall protection and rescue systems.

1.2.16 Recordable Injuries or Illnesses

Recordable Injuries or Illnesses are any work-related injury or illness that results in:

a. Death, regardless of the time between the injury and death, or the length of the illness;

b. Days away from work (any time lost after day of injury/illness onset);

c. Restricted work;

d. Transfer to another job;

e. Medical treatment beyond first aid;

f. Loss of consciousness; or

g. A significant injury or illness diagnosed by a physician or other licensed health care professional, even if it did not result in (a) through (f) above

1.2.17 Government Property and Equipment

Interpret "USACE" property and equipment specified in USACE EM 385-1-1 as Government property and equipment.

1.2.18 Load Handling Equipment (LHE) Accident or Load Handling Equipment Mishap

A LHE accident occurs when any one or more of the eight elements in the operating envelope fails to perform correctly during operation, including operation during maintenance or testing resulting in personnel injury or death; material or equipment damage; dropped load; derailment; two-blocking; overload; or collision, including unplanned contact between the load, crane, or other objects. A dropped load, derailment, two-blocking, overload and collision are considered accidents, even though no material damage or injury occurs. A component failure (e.g., motor burnout, gear tooth failure, bearing failure) is not considered an accident solely due to material or equipment damage unless the component failure results in damage to other components (e.g., dropped boom, dropped load, or roll over). Document an LHE mishap using the Crane High Hazard working group mishap reporting form.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

APP - Construction; G, RO

Accident Prevention Plan (APP); G, RO

SD-06 Test Reports

Monthly Exposure Reports

Notifications and Reports

Accident Reports; G, RO

LHE Inspection Reports

SD-07 Certificates

Crane Operators/Riggers

Standard Lift Plan; G, RO

Critical Lift Plan; G, RO

Activity Hazard Analysis (AHA)

Confined Space Entry Permit

Hot Work Permit

Certificate of Compliance

License Certificates

Radiography Operation Planning Work Sheet; G, RO

Portable Gauge Operations Planning Worksheet; G, RO

1.4 MONTHLY EXPOSURE REPORTS

Provide a Monthly Exposure Report and attach to the monthly billing request. This report is a compilation of employee-hours worked each month for all site workers, both Prime and subcontractor. Failure to submit the report may result in retention of up to 10 percent of the voucher.

1.5 REGULATORY REQUIREMENTS

In addition to the detailed requirements included in the provisions of this Contract, comply with the most recent edition of USACE EM 385-1-1, and the following federal, state, and local laws, ordinances, criteria, rules and regulations. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting work. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements govern.

1.6 SITE QUALIFICATIONS, DUTIES, AND MEETINGS

1.6.1 Personnel Qualifications

1.6.1.1 Site Safety and Health Officer (SSHO)

Provide an SSHO that meets the requirements of EM 385-1-1 Section 1. The SSHO must ensure that the requirements of 29 CFR 1926.16 are met for the project. Provide a Safety oversight team that includes a minimum of one person at each project site to function as the Site Safety and Health Officer (SSHO). The SSHO or an equally-qualified Alternate SSHO must be at the work site at all times to implement and administer the Contractor's safety program and Government-accepted Accident Prevention Plan. The SSHO and Alternate SSHO must have the required training, experience, and qualifications in accordance with EM 385-1-1 Section 01.A.17, and all associated sub-paragraphs.

If the SSHO is off-site for a period longer than 24 hours, an equally-qualified alternate SSHO must be provided and must fulfill the same roles and responsibilities as the primary SSHO.

1.6.1.1.1 Additional Site Safety and Health Officer (SSHO) Requirements and Duties

The SSHO may not serve as the Quality Control Manager. The SSHO may not serve as the Superintendent.

1.6.1.2 SITE INSPECTIONS

The site safety officer must perform daily inspection of the job sites and the work in progress to ensure compliance with EM 385-1-1 and to determine the effectiveness of the Accident Prevention Plan. Daily inspection logs must be used to document inspections noting safety and health deficiencies, deficiencies in the effectiveness of the accident prevention plan, and corrective actions including timetable and responsibilities. The daily inspection logs will be attached to and submitted with the Daily Quality Control Reports. Each entry must include date, work area checked, employee present in work area, protective equipment and work equipment in use, special safety and health issues and notes, and signature of the preparer.

1.6.1.3 Competent Person Qualifications

Provide Competent Persons in accordance with EM 385-1-1, Appendix Q and herein. Competent Persons for high risk activities include confined space, cranes and rigging, excavation/trenching, fall protection, and electrical work. The CP for these activities must be designated in writing, and meet the requirements for the specific activity (i.e. competent person, fall protection).

The Competent Person identified in the Contractor's Safety and Health Program and accepted Accident Prevention Plan, must be on-site at all times when the work that presents the hazards associated with their professional expertise is being performed. Provide the credentials of the Competent Persons(s) to the Contracting Officer for information in consultation with the Safety Office.

1.6.1.3.1 Competent Person for Confined Space Entry

Provide a Confined Space (CP) Competent Person who meets the requirements of EM 385-1-1, Appendix Q, and herein. The CP for Confined Space Entry must supervise the entry into each confined space in accordance with EM 385-1-1, Section 34.

1.6.1.3.2 Competent Person for Scaffolding

Provide a Competent Person for Scaffolding who meets the requirements of EM 385-1-1, Section 22.B.02 and herein.

1.6.1.3.3 Competent Person for Fall Protection

Provide a Competent Person for Fall Protection who meets the requirements of EM 385-1-1, Section 21.C.04, 21.B.03, and herein.

1.6.1.4 Qualified Trainer Requirements

Individuals qualified to instruct the 40 hour contract safety awareness course, or portions thereof, must meet the definition of a Competent Person Trainer, and, at a minimum, possess a working knowledge of the following subject areas: EM 385-1-1, Electrical Standards,

Lockout/Tagout, Fall Protection, Confined Space Entry for Construction; Excavation, Trenching and Soil Mechanics, and Scaffolds in accordance with 29 CFR 1926.450, Subpart L.

Instructors are required to:

a. Prepare class presentations that cover construction-related safety requirements.

b. Ensure that all attendees attend all sessions by using a class roster signed daily by each attendee. Maintain copies of the roster for at least five years. This is a certification class and must be attended 100 percent. In cases of emergency where an attendee cannot make it to a session, the attendee can make it up in another class session for the same subject.

c. Update training course materials whenever an update of the EM 385-1-1 becomes available.

d. Provide a written exam of at least 50 questions. Students are required to answer 80 percent correctly to pass.

e. Request, review and incorporate student feedback into a continuous course improvement program.

1.6.1.5 Crane Operators/Riggers

Provide Operators, Signal Persons, and Riggers meeting the requirements in EM 385-1-1, Section 15.B for Riggers and Section 16.B for Crane Operators and Signal Persons. In addition, for mobile cranes with Original Equipment Manufacturer (OEM) rated capacities of 50,000 pounds or greater, designate crane operators qualified by a source that qualifies crane operators (i.e., union, a Government agency, or an organization that tests and qualifies crane operators). Provide proof of current qualification.

1.6.2 Personnel Duties

1.6.2.1 Duties of the Site Safety and Health Officer (SSHO)

The SSHO must:

a. Conduct daily safety and health inspections and maintain a written log which includes area/operation inspected, date of inspection, identified hazards, recommended corrective actions, estimated and actual dates of corrections. Attach safety inspection logs to the Contractors' daily production report.

b. Conduct mishap investigations and complete required accident reports. Report mishaps and near misses.

c. Use and maintain OSHA's Form 300 to log work-related injuries and illnesses occurring on the project site for Prime Contractors and subcontractors, and make available to the Contracting Officer upon request. Post and maintain the Form 300A on the site Safety Bulletin Board.

d. Maintain applicable safety reference material on the job site.

e. Attend the pre-construction conference, pre-work meetings including

preparatory meetings, and periodic in-progress meetings.

f. Review the APP and AHAs for compliance with EM 385-1-1, and approve, sign, implement and enforce them.

g. Establish a Safety and Occupational Health (SOH) Deficiency Tracking System that lists and monitors outstanding deficiencies until resolution.

h. Ensure subcontractor compliance with safety and health requirements.

i. Maintain a list of hazardous chemicals on site and their material Safety Data Sheets (SDS).

j. Maintain a weekly list of high hazard activities involving energy, equipment, excavation, entry into confined space, and elevation, and be prepared to discuss details during QC Meetings.

k. Provide and keep a record of site safety orientation and indoctrination for Contractor employees, subcontractor employees, and site visitors.

Superintendent, QC Manager, and SSHO are subject to dismissal if the above or any other required duties are not being effectively carried out. If either the Superintendent, QC Manager, or SSHO are dismissed, project work will be stopped and will not be allowed to resume until a suitable replacement is approved and the above duties are again being effectively carried out.

1.6.3 Meetings

1.6.3.1 Preconstruction Conference

a. Contractor representatives who have a responsibility or significant role in accident prevention on the project must attend the preconstruction conference. This includes the project superintendent, Site Safety and Occupational Health Officer, quality control manager, or any other assigned safety and health professionals who participated in the development of the APP (including the Activity Hazard Analyses (AHAs) and special plans, program and procedures associated with it).

b. Discuss the details of the submitted APP to include incorporated plans, programs, procedures and a listing of anticipated AHAs that will be developed and implemented during the performance of the Contract. This list of proposed AHAs will be reviewed and an agreement will be reached between the Contractor and the Contracting Officer as to which phases will require an analysis. In addition, establish a schedule for the preparation, submittal, and Government review of AHAs to preclude project delays.

c. Deficiencies in the submitted APP, identified during the Contracting Officer's review, must be corrected, and the APP re-submitted for review prior to the start of construction. Work is not permitted to begin until an APP is established that is acceptable to the Contracting Officer.

1.6.3.2 Safety Meetings

Conduct safety meetings to review past activities, plan for new or changed operations, review pertinent aspects of appropriate AHA (by trade), establish safe working procedures for anticipated hazards, and provide pertinent Safety and Occupational Health (SOH) training and motivation. Conduct meetings at least once a month for all supervisors at the project location. The SSHO, supervisors, foremen, or CDSOs must conduct meetings at least once a week for the trade workers. Document meeting minutes to include the date, persons in attendance, subjects discussed, and names of individual(s) who conducted the meeting. Maintain documentation on-site and furnish copies to the Contracting Officer on request. Notify the Contracting Officer of all scheduled meetings 7 calendar days in advance.

1.7 ACCIDENT PREVENTION PLAN (APP)

1.7.1 APP - Construction

A qualified person must prepare the written site-specific APP. Prepare the APP in accordance with the format and requirements of EM 385-1-1, Appendix A, and as supplemented herein. Cover all paragraph and subparagraph elements in EM 385-1-1, Appendix A. The APP must be job-specific and address any unusual or unique aspects of the project or activity for which it is written. The APP must interface with the Contractor's overall safety and health program referenced in the APP in the applicable APP element, and made site-specific. Describe the methods to evaluate past safety performance of potential subcontractors in the selection process. Also, describe innovative methods used to ensure and monitor safe work practices of subcontractors. The Government considers the Prime Contractor to be the "controlling authority" for all work site safety and health of the subcontractors. Contractors are responsible for informing their subcontractors of the safety provisions under the terms of the Contract and the penalties for noncompliance, coordinating the work to prevent one craft from interfering with or creating hazardous working conditions for other crafts, and inspecting subcontractor operations to ensure that accident prevention responsibilities are being carried out. The APP must be signed by an officer of the firm (Prime Contractor senior person), the individual preparing the APP, the on-site superintendent, the designated SSHO, the Contractor Quality Control Manager, and any designated Certified Safety Professional (CSP) or Certified Health Physicist (CIH). The SSHO must provide and maintain the APP and a log of signatures by each subcontractor foreman, attesting that they have read and understand the APP, and make the APP and log available on-site to the Contracting Officer. If English is not the foreman's primary language, the Prime Contractor must provide an interpreter.

Submit the APP to the Contracting Officer 15 calendar days prior to the date of the preconstruction conference for acceptance. Work cannot proceed without an accepted APP. Once reviewed and accepted by the Contracting Officer, the APP and attachments will be enforced as part of the Contract. Disregarding the provisions of this Contract or the accepted APP is cause for stopping of work, at the discretion of the Contracting Officer, until the matter has been rectified. Continuously review and amend the APP, as necessary, throughout the life of the Contract. Changes to the accepted APP must be made with the knowledge and concurrence of the Contracting Officer, project superintendent, SSHO and Quality Control Manager. Incorporate unusual or high-hazard activities not identified in the original APP as they are discovered. Should any severe hazard exposure (i.e. imminent danger) become evident, stop work in the area, secure the area, and develop a plan to remove the exposure and

control the hazard. Notify the Contracting Officer within 24 hours of discovery. Eliminate and remove the hazard. In the interim, take all necessary action to restore and maintain safe working conditions in order to safeguard onsite personnel, visitors, the public (as defined by ASSP A10.34), and the environment.

1.7.2 Names and Qualifications

Provide plans in accordance with the requirements outlined in Appendix A of EM 385-1-1, including the following:

a. Names and qualifications (resumes including education, training, experience and certifications) of site safety and health personnel designated to perform work on this project to include the designated Site Safety and Health Officer and other competent and qualified personnel to be used. Specify the duties of each position.

b. Qualifications of competent and of qualified persons. As a minimum, designate and submit qualifications of competent persons for each of the following major areas: excavation; scaffolding; fall protection; hazardous energy; confined space; health hazard recognition, evaluation and control of chemical, physical and biological agents; and personal protective equipment and clothing to include selection, use and maintenance.

1.7.3 Plans

Provide plans in the APP in accordance with the requirements outlined in Appendix A of EM 385-1-1, including the following:

1.7.3.1 Confined Space Entry Plan

Develop a confined or enclosed space entry plan in accordance with EM 385-1-1, applicable OSHA standards 29 CFR 1910, 29 CFR 1915, and 29 CFR 1926, OSHA Directive CPL 2.100, and any other federal, state and local regulatory requirements identified in this Contract. Identify the qualified person's name and qualifications, training, and experience. Delineate the qualified person's authority to direct work stoppage in the event of hazardous conditions. Include procedure for rescue by Contractor personnel and the coordination with emergency responders. (If there is no confined space work, include a statement that no confined space work exists and none will be created.)

1.7.3.2 Standard Lift Plan (SLP)

Plan lifts to avoid situations where the operator cannot maintain safe control of the lift. Prepare a written SLP in accordance with EM 385-1-1, Section 16.A.03, using Form 16-2 for every lift or series of lifts (if duty cycle or routine lifts are being performed). The SLP must be developed, reviewed and accepted by all personnel involved in the lift in conjunction with the associated AHA. Signature on the AHA constitutes acceptance of the plan. Maintain the SLP on the LHE for the current lift(s) being made. Maintain historical SLPs for a minimum of three months.

1.7.3.3 Critical Lift Plan - Crane or Load Handling Equipment

Provide a Critical Lift Plan as required by EM 385-1-1, Section 16.H.01, using Form 16-3. In addition, Critical Lift Plans are required for the

following:

a. Lifts over 50 percent of the capacity of barge mounted mobile crane's hoist.

b. When working around energized power lines where the work will get closer than the minimum clearance distance in EM 385-1-1 Table 16-1.

c. For lifts with anticipated binding conditions.

d. When erecting cranes.

1.7.3.3.1 Critical Lift Plan Planning and Schedule

Critical lifts require detailed planning and additional or unusual safety precautions. Develop and submit a critical lift plan to the Contracting Officer 30 calendar days prior to critical lift. Comply with load testing requirements in accordance with EM 385-1-1, Section 16.F.03.

1.7.3.3.2 Lifts of Personnel

In addition to the requirements of EM 385-1-1, Section 16.H.02, for lifts of personnel, demonstrate compliance with the requirements of 29 CFR 1926.1400 and EM 385-1-1, Section 16.T.

1.7.3.4 Multi-Purpose Machines, Material Handling Equipment, and Construction Equipment Lift Plan

Multi-purpose machines, material handling equipment, and construction equipment used to lift loads that are suspended by rigging gear, require proof of authorization from the machine OEM that the machine is capable of making lifts of loads suspended by rigging equipment. Written approval from a qualified registered professional engineer, after a safety analysis is performed, is allowed in lieu of the OEM's approval. Demonstrate that the operator is properly trained and that the equipment is properly configured to make such lifts and is equipped with a load chart.

1.7.3.5 Fall Protection and Prevention (FP&P) Plan

The plan must be in accordance with the requirements of EM 385-1-1, Section 21.D and ASSP Z359.2, be site specific, and address all fall hazards in the work place and during different phases of construction. Address how to protect and prevent workers from falling to lower levels when they are exposed to fall hazards above 6 feet. A competent person or qualified person for fall protection must prepare and sign the plan documentation. Include fall protection and prevention systems, equipment and methods employed for every phase of work, roles and responsibilities, assisted rescue, self-rescue and evacuation procedures, training requirements, and monitoring methods. Review and revise, as necessary, the Fall Protection and Prevention Plan documentation as conditions change, but at a minimum every six months, for lengthy projects, reflecting any changes during the course of construction due to changes in personnel, equipment, systems or work habits. Keep and maintain the accepted Fall Protection and Prevention Plan documentation at the job site for the duration of the project. Include the Fall Protection and Prevention Plan documentation in the Accident Prevention Plan (APP).

1.7.3.6 Rescue and Evacuation Plan

Provide a Rescue and Evacuation Plan in accordance with EM 385-1-1 Section 21.N and ASSP Z359.2, and include in the FP&P Plan and as part of the APP. Include a detailed discussion of the following: methods of rescue; methods of self-rescue; equipment used; training requirement; specialized training for the rescuers; procedures for requesting rescue and medical assistance; and transportation routes to a medical facility.

1.7.3.7 Hazardous Energy Control Program (HECP)

Develop a HECP in accordance with EM 385-1-1 Section 12, 29 CFR 1910.147, 29 CFR 1910.333, 29 CFR 1915.89, ASSP Z244.1, and ASSP A10.44. Submit this HECP as part of the Accident Prevention Plan (APP). Conduct a preparatory meeting and inspection with all effected personnel to coordinate all HECP activities. Document this meeting and inspection in accordance with EM 385-1-1, Section 12.A.02. Ensure that each employee is familiar with and complies with these procedures.

1.7.3.8 Excavation Plan

Identify the safety and health aspects of excavation, and provide and prepare the plan in accordance with EM 385-1-1, Section 25.A and Section 31 00 00 EARTHWORK.

1.7.3.9 Asbestos Hazard Abatement Plan

Identify the safety and health aspects of asbestos work, and prepare in accordance with Section 02 82 00 ASBESTOS REMEDIATION.

1.7.3.10 Site Demolition Plan

Identify the safety and health aspects, and prepare in accordance with Section 02 41 00 DEMOLITION and referenced sources.

1.8 ACTIVITY HAZARD ANALYSIS (AHA)

Before beginning each activity, task or Definable Feature of Work (DFOW) involving a type of work presenting hazards not experienced in previous project operations, or where a new work crew or subcontractor is to perform the work, the Contractor(s) performing that work activity must prepare an AHA. AHAs must be developed by the Prime Contractor, subcontractor, or supplier performing the work, and provided for Prime Contractor review and approval before submitting to the Contracting Officer. AHAs must be signed by the SSHO, Superintendent, QC Manager and the subcontractor Foreman performing the work. Format the AHA in accordance with EM 385-1-1, Section 1 or as directed by the Contracting Officer. Submit the AHA for review at least 15 working days prior to the start of each activity task, or DFOW. The Government reserves the right to require the Contractor to revise and resubmit the AHA if it fails to effectively identify the work sequences, specific anticipated hazards, site conditions, equipment, materials, personnel and the control measures to be implemented.

AHAs must identify competent persons required for phases involving high risk activities, including confined entry, crane and rigging, excavations, trenching, electrical work, fall protection, and scaffolding.

1.8.1 AHA Management

Review the AHA list periodically (at least monthly) at the Contractor supervisory safety meeting, and update as necessary when procedures, scheduling, or hazards change. Use the AHA during daily inspections by the SSHO to ensure the implementation and effectiveness of the required safety and health controls for that work activity.

1.8.2 AHA Signature Log

Each employee performing work as part of an activity, task or DFOW must review the AHA for that work and sign a signature log specifically maintained for that AHA prior to starting work on that activity. The SSHO must maintain a signature log on site for every AHA. Provide employees whose primary language is other than English, with an interpreter to ensure a clear understanding of the AHA and its contents.

1.9 DISPLAY OF SAFETY INFORMATION

1.9.1 Safety Bulletin Board

Prior to commencement of work, erect a safety bulletin board at the job site. Where size, duration, or logistics of project do not facilitate a bulletin board, an alternative method, acceptable to the Contracting Officer, that is accessible and includes all mandatory information for employee and visitor review, may be deemed as meeting the requirement for a bulletin board. Include and maintain information on safety bulletin board as required by EM 385-1-1, Section 01.A.07. Additional items required to be posted include:

a. Confined space entry permit.

b. Hot work permit.

1.9.2 Safety and Occupational Health (SOH) Deficiency Tracking System

Establish a SOH deficiency tracking system that lists and monitors the status of SOH deficiencies in chronological order. Use the tracking system to evaluate the effectiveness of the APP. A monthly evaluation of the data must be discussed in the QC or SOH meeting with everyone on the project. The list must be posted on the project bulletin board and updated daily, and provide the following information:

a. Date deficiency identified;

b. Description of deficiency;

c. Name of person responsible for correcting deficiency;

d. Projected resolution date;

e. Date actually resolved.

1.10 SITE SAFETY REFERENCE MATERIALS

Maintain safety-related references applicable to the project, including those listed in paragraph REFERENCES. Maintain applicable equipment manufacturer's manuals.

1.11 EMERGENCY MEDICAL TREATMENT

Contractors must arrange for their own emergency medical treatment in accordance with EM 385-1-1. Government has no responsibility to provide emergency medical treatment.

1.12 NOTIFICATIONS and REPORTS

1.12.1 Mishap Notification

Notify the Contracting Officer as soon as practical, but no more than twenty-four hours, after any mishaps, including recordable accidents, incidents, and near misses, as defined in EM 385-1-1 Appendix Q, any report of injury, illness, or any property damage. For LHE or rigging mishaps, notify the Contracting Officer as soon as practical but not more than four hours after mishap. The Contractor is responsible for obtaining appropriate medical and emergency assistance and for notifying fire, law enforcement, and regulatory agencies. Immediate reporting is required for electrical mishaps, to include Arc Flash; shock; uncontrolled release of hazardous energy (includes electrical and non-electrical); load handling equipment or rigging; fall from height (any level other than same surface); and underwater diving. These mishaps must be investigated in depth to identify all causes and to recommend hazard control measures.

Within notification include Contractor name; Contractt title; type of Contract; name of activity, installation or location where accident occurred; date and time of accident; names of personnel injured; extent of property damage, if any; extent of injury, if known, and brief description of accident (for example, type of construction equipment used and PPE used). Preserve the conditions and evidence on the accident site until the Government investigation team arrives on-site and Government investigation is conducted. Assist and cooperate fully with the Government's investigation(s) of any mishap.

1.12.2 Accident Reports

a. Conduct an accident investigation for recordable injuries and illnesses, property damage, and near misses as defined in EM 385-1-1, to establish the root cause(s) of the accident. Complete the applicable USACE Accident Report Form 3394, and provide the report to the Contracting Officer within 5 calendar days of the accident. The Contracting Officer will provide copies of any required or special forms.

b. Near Misses: Report all "Near Misses" to the GDA, using local mishap reporting procedures, within 24 hrs. The Contracting Officer will provide the Contractor the required forms. Near miss reports are considered positive and proactive Contractor safety management actions.

1.12.3 LHE Inspection Reports

Submit LHE inspection reports required in accordance with EM 385-1-1 and as specified herein with Daily Reports of Inspections.

1.12.4 Certificate of Compliance and Pre-lift Plan/Checklist for LHE and Rigging

Provide a FORM 16-1 Certificate of Compliance for LHE entering an activity under this Contract and in accordance with EM 385-1-1. Post

certifications on the crane.

Develop a Standard Lift Plan (SLP) in accordance with EM 385-1-1, Section 16.H.03 using Form 16-2 Standard Pre-Lift Crane Plan/Checklist for each lift planned. Submit SLP to the Contracting Officer for approval within 15 calendar days in advance of planned lift.

1.13 HOT WORK

1.13.1 Permit and Personnel Requirements

Submit and obtain a written permit prior to performing "Hot Work" (i.e. welding or cutting) or operating other flame-producing/spark producing devices, from the Fire Division. A permit is required from the Explosives Safety Office for work in and around where explosives are processed, stored, or handled. CONTRACTORS ARE REQUIRED TO MEET ALL CRITERIA BEFORE A PERMIT IS ISSUED. Provide at least two 20 pound 4A:20 BC rated extinguishers for normal "Hot Work". The extinguishers must be current inspection tagged, and contain an approved safety pin and tamper resistant seal. It is also mandatory to have a designated FIRE WATCH for any "Hot Work" done at this activity. The Fire Watch must be trained in accordance with NFPA 51B and remain on-site for a minimum of one hour after completion of the task or as specified on the hot work permit.

When starting work in the facility, require personnel to familiarize themselves with the location of the nearest fire alarm boxes and place in memory the emergency Fire Division phone number. REPORT ANY FIRE, NO MATTER HOW SMALL, TO THE RESPONSIBLE FIRE DIVISION IMMEDIATELY.

1.13.2 Work Around Flammable Materials

Obtain permit approval from a NFPA Certified Marine Chemist for "HOT WORK" within or around flammable materials (such as fuel systems or welding/cutting on fuel pipes) or confined spaces (such as sewer wet wells, manholes, or vaults) that have the potential for flammable or explosive atmospheres.

Whenever these materials, except beryllium and chromium (VI), are encountered in indoor operations, local mechanical exhaust ventilation systems that are sufficient to reduce and maintain personal exposures to within acceptable limits must be used and maintained in accordance with manufacturer's instruction and supplemented by exceptions noted in EM 385-1-1, Section 06.H

1.14 RADIATION SAFETY REQUIREMENTS

Submit License Certificates, employee training records, and Leak Test Reports for radiation materials and equipment to the Contracting Officer and Radiation Safety Office (RSO), USAG WP Saftey Office for all specialized and licensed material and equipment proposed for use on the construction project (excludes portable machine sources of ionizing radiation including moisture density and X-Ray Fluorescence (XRF)). Maintain on-site records whenever licensed radiological materials or ionizing equipment are on Government property. Army Radiation Permit must be in complaince with USAG WP Safety Office.

Protect workers from radiation exposure in accordance with 10 CFR 20, ensuring any personnel exposures are maintained As Low As Reasonably Achievable.

Contractor is required to obtain an Army Radiation Permit as defined in the WP Garrison Army Radiation Permit Policy attached at the end of this specification section.

1.14.1 Radiography Operation Planning Work Sheet

Submit a Gamma and X-Ray Radiography Operation Planning Work Sheet to Contracting Officer 14 days prior to commencement of operations involving radioactive materials or radiation generating devices. For portable machine sources of ionizing radiation, including moisture density and XRF, use and submit the Portable Gauge Operations Planning Worksheet instead. The Contracting Officer will review the submitted worksheet and provide questions and comments.

Contractors must use primary dosimeters process by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.

1.14.2 Site Access and Security

Coordinate site access and security requirements with the Contracting Officer for all radiological materials and equipment containing ionizing radiation that are proposed for use on a government facility. For gamma radiography materials and equipment, a Government escort is required for any travels on the Installation. The Government authorized representative will meet the Contractor at a designated location outside the Installation, ensure safety of the materials being transported, and will escort the Contractor for gamma sources onto the Installation, to the job site, and off the Installation. For portable machine sources of ionizing radiation, including moisture density and XRF, the Government authorized representative will meet the Contractor at the job site.

Provide a copy of all calibration records, and utilization records for radiological operations performed on the site.

1.14.3 Loss or Release and Unplanned Personnel Exposure

Loss or release of radioactive materials, and unplanned personnel exposures must be reported immediately to the Contracting Officer, RSO, and Base Security Department Emergency Number.

1.14.4 Site Demarcation and Barricade

Properly demark and barricade an area surrounding radiological operations to preclude personnel entrance, in accordance with EM 385-1-1, Nuclear Regulatory Commission, and Applicable State regulations and license requirements, and in accordance with requirements established in the accepted Radiography Operation Planning Work Sheet.

Do not close or obstruct streets, walks, and other facilities occupied and used by the Government without written permission from the Contracting Officer.

1.14.5 Security of Material and Equipment

Properly secure the radiological material and ionizing radiation equipment at all times, including keeping the devices in a properly marked and locked container, and secondarily locking the container to a secure point in the Contractor's vehicle or other approved storage location during

transportation and while not in use. While in use, maintain a continuous visual observation on the radiological material and ionizing radiation equipment. In instances where radiography is scheduled near or adjacent to buildings or areas having limited access or one-way doors, make no assumptions as to building occupancy. Where necessary, the Contracting Officer will direct the Contractor to conduct an actual building entry, search, and alert. Where removal of personnel from such a building cannot be accomplished and it is otherwise safe to proceed with the radiography, position a fully instructed employee inside the building or area to prevent exiting while external radiographic operations are in process.

1.14.6 Transportation of Material

Comply with 49 CFR 173 for Transportation of Regulated Amounts of Radioactive Material. Notify Local Fire authorities, USAG WP safety office, and the site Radiation Safety Officer (RSO) of any Radioactive Material use.

1.14.7 Schedule for Exposure or Unshielding

Actual exposure of the radiographic film or unshielding the source must not be initiated until after 5 p.m. on weekdays.

1.14.8 Transmitter Requirements

Adhere to the base policy concerning the use of transmitters, such as radios and cell phones. Obey Emissions control (EMCON) restrictions.

1.15 CONFINED SPACE ENTRY REQUIREMENTS

Confined space entry must comply with Section 34 of EM 385-1-1, OSHA 29 CFR 1926, OSHA 29 CFR 1910, OSHA 29 CFR 1910.146, and OSHA Directive CPL 2.100. Any potential for a hazard in the confined space requires a permit system to be used.

1.15.1 Entry Procedures

Prohibit entry into a confined space by personnel for any purpose, including hot work, until the qualified person has conducted appropriate tests to ensure the confined or enclosed space is safe for the work intended and that all potential hazards are controlled or eliminated and documented. Comply with EM 385-1-1, Section 34 for entry procedures. Hazards pertaining to the space must be reviewed with each employee during review of the AHA.

1.15.2 Forced Air Ventilation

Forced air ventilation is required for all confined space entry operations and the minimum air exchange requirements must be maintained to ensure exposure to any hazardous atmosphere is kept below its action level.

1.15.3 Sewer Wet Wells

Sewer wet wells require continuous atmosphere monitoring with audible alarm for toxic gas detection.

1.15.4 Rescue Procedures and Coordination with Local Emergency Responders

Develop and implement an on-site rescue and recovery plan and procedures.

The rescue plan must not rely on local emergency responders for rescue from a confined space.

1.16 SEVERE STORM PLAN

In the event of a severe storm warning, the Contractor must comply with the applicable Storm Plan and:

a. Secure outside equipment and materials and place materials that could be damaged in protected areas.

b. Check surrounding area, including roof, for loose material, equipment, debris, and other objects that could be blown away or against existing facilities.

c. Ensure that temporary erosion controls are adequate.

1.17 DISPENSARY AND HOSPITAL FACILITIES

The facilities of the United States Military Academy Post Hospital are available for use by the Contractor only for the emergency treatment of his personnel injured at the job site. Charges to the Contractor for the use of said facilities will be at prevailing rates for the services provided and billing and payment will be made by separate transaction between the USMA Hospital and the Contractor.

1. The Keller Army Community Hospital is undergoing phased renovations that may impact the entrance to the facility's emergency room. The Contractor is remain aware of these changes and field verify entrance location.

2. The Contractor my reach emergency response personnel by the following means:

a. Dialing 911 - If 911 is dialed from any location on the installation, the caller must state that the emergency is located at West Point to ensure the call is routed appropriately.

b. Dialing (845) 938-3333 - Dialing (845) 938-3333 will reach the West Point emergency response personnel directly and is the recommended way to reach emergency response personnel.

1.18 FUEL USAGE

Provide to the Contracting Officer a report, to be received on or before the last day of the calendar month, listing the totals of fuels consumed by the dredging plant and support vessels. The report must list quantities of different fuels separately. The report must cover the period from the 25th of the preceding month to the 25th of the current month.

1.19 FIRE PROTECTION

The Contractor will provide fire protection in accordance with Section 9 of EM 385-1-1, US Army Corps of Engineers Safety and Health Requirements Manual. The Contractor's means of providing such protection will be included in his Health and safety plan as required by the contract. The plan must include fire exits and access routes during construction and during partial acceptance of the facilities, if any. Although the West

Point Military Academy Fire department and local departments with whom the installation has mutual aid agreementswill respond to emergencies, the capabilities of these departments will be limited by their available equipment and access to the construction sites.

The Fire Department does not permit open flame heating devices or tar kettles on roofs.

1.20 High Noise Work

High noise level work may be restricted at the discretion of USAG WP. The Contractor will be notified of these restrictions via the Contracting Officer.

1.21 COVID-19 MONITORING PLAN

Include a site specific COVID-19 monitoring plan which addresses at a minimum the following elements:

a. Procedures for periodic sanitation inspections.

b. Procedures for disinfecting project site to include high traffic areas in accordance with Center for Disease Control (CDC) guidelines.

c. Site specific measures to practice social distancing while working on the project.

d. Employee training on the signs, symptoms, and protction measures in accordance with CDC guidelines.

e. Follow current published best practices by CDC, World Health Organivation and OSHA:

1. www.coronavirus.com

2. www.cdc.gov/coronavirus

3. https://www.osha.gov/SLTC/covid-19/

f. Where more stringent federal, state, and local government COVID.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 CONSTRUCTION AND OTHER WORK

Comply with EM 385-1-1, NFPA 70, NFPA 70E, NFPA 241, the APP, the AHA, Federal and State OSHA regulations, and other related submittals and activity fire and safety regulations. The most stringent standard prevails.

PPE is governed in all areas by the nature of the work the employee is performing. Use personal hearing protection at all times in designated noise hazardous areas or when performing noise hazardous tasks. Safety glasses must be worn or carried/available on each person. Mandatory PPE includes:

a. Hard Hat

b. Long Pants

c. Appropriate Safety Shoes

d. Appropriate Class Reflective Vests

3.1.1 Worksite Communication

Employees working alone in a remote location or away from other workers must be provided an effective means of emergency communications (i.e., cellular phone, two-way radios, land-line telephones or other acceptable means). The selected communication must be readily available (easily within the immediate reach) of the employee and must be tested prior to the start of work to verify that it effectively operates in the area/environment. Develop an employee check-in/check-out communication procedure to ensure employee safety.

3.1.2 Hazardous Material Exclusions

Notwithstanding any other hazardous material used in this Contract, radioactive materials or instruments capable of producing ionizing/non-ionizing radiation (with the exception of radioactive material and devices used in accordance with EM 385-1-1 such as nuclear density meters for compaction testing and laboratory equipment with radioactive sources) as well as materials which contain asbestos, mercury or polychlorinated biphenyls, di-isocyanates, lead-based paint, and hexavalent chromium, are prohibited. The Contracting Officer, upon written request by the Contractor, may consider exceptions to the use of any of the above excluded materials. Low mercury lamps used within fluorescent lighting fixtures are allowed as an exception without further Contracting Officer approval. Notify the Radiation Safety Officer (RSO) prior to excepted items of radioactive material and devices being brought on base.

3.1.3 Unforeseen Hazardous Material

Contract documents identify materials such as PCB, lead paint, and friable and non-friable asbestos and other OSHA regulated chemicals (i.e. 29 CFR Part 1910.1000). If material(s) that may be hazardous to human health upon disturbance are encountered during construction operations, stop that portion of work and notify the Contracting Officer immediately. Within 14 calendar days the Government will determine if the material is hazardous. If material is not hazardous or poses no danger, the Government will direct the Contractor to proceed without change. If material is hazardous and handling of the material is necessary to accomplish the work, the Government will issue a modification pursuant to FAR 52.243-4 Changes and FAR 52.236-2 Differing Site Conditions.

3.2 UTILITY OUTAGE REQUIREMENTS

Apply for utility outages at least 30 days in advance. At a minimum, the written request must include the location of the outage, utilities being affected, duration of outage, any necessary sketches, and a description of the means to fulfill energy isolation requirements in accordance with EM 385-1-1, Section 11.A.02 (Isolation). Some examples of energy isolation devices and procedures are highlighted in EM 385-1-1, Section

12.D. In accordance with EM 385-1-1, Section 12.A.01, where outages involve Government or Utility personnel, coordinate with the Government on all activities involving the control of hazardous energy.

These activities include, but are not limited to, a review of HECP and HEC procedures, as well as applicable Activity Hazard Analyses (AHAs). In accordance with EM 385-1-1, Section 11.A.02 and NFPA 70E, work on energized electrical circuits must not be performed without prior Government authorization. Government permission is considered through the permit process and submission of a detailed AHA. Energized work permits are considered only when de-energizing introduces additional or increased hazard or when de-energizing is infeasible. See Section 01 14 00 WORK RESTRICTION for more inforamtion.

3.3 OUTAGE COORDINATION MEETING

After the utility outage request is approved and prior to beginning work on the utility system requiring shut-down, conduct a pre-outage coordination meeting in accordance with EM 385-1-1, Section 12.A. This meeting must include the Prime Contractor, the Prime and subcontractors performing the work, the Contracting Officer, and the Installation representative or Public Utilities representative. All parties must fully coordinate HEC activities with one another. During the coordination meeting, all parties must discuss and coordinate on the scope of work, HEC procedures (specifically, the lock-out/tag-out procedures for worker and utility protection), the AHA, assurance of trade personnel qualifications, identification of competent persons, and compliance with HECP training in accordance with EM 385-1-1, Section 12.C. Clarify when personal protective equipment is required during switching operations, inspection, and verification.

3.4 CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT)

Provide and operate a Hazardous Energy Control Program (HECP) in accordance with EM 385-1-1 Section 12, 29 CFR 1910.333, 29 CFR 1915.89, ASSP A10.44, NFPA 70E, and paragraph HAZARDOUS ENERGY CONTROL PROGRAM (HECP).

3.4.1 Safety Preparatory Inspection Coordination Meeting with the Government or Utility

For electrical distribution equipment that is to be operated by Government or Utility personnel, the Prime Contractor and the subcontractor performing the work must attend the safety preparatory inspection coordination meeting, which will also be attended by the Contracting Officer's Representative, and required by EM 385-1-1, Section 12.A.02. The meeting will occur immediately preceding the start of work and following the completion of the outage coordination meeting. Both the safety preparatory inspection coordination meeting and the outage coordination meeting must occur prior to conducting the outage and commencing with lockout/tagout procedures.

3.4.2 Lockout/Tagout Isolation

Where the Government or Utility performs equipment isolation and lockout/tagout, the Contractor must place their own locks and tags on each energy-isolating device and proceed in accordance with the HECP. Before any work begins, both the Contractor and the Government or Utility must perform energy isolation verification testing while wearing required PPE

detailed in the Contractor's AHA and required by EM 385-1-1, Sections 05.I and 11.B. Install personal protective grounds, with tags, to eliminate the potential for induced voltage in accordance with EM 385-1-1, Section 12.E.06.

3.4.3 Lockout/Tagout Removal

Upon completion of work, conduct lockout/tagout removal procedure in accordance with the HECP. In accordance with EM 385-1-1, Section 12.E.08, each lock and tag must be removed from each energy isolating device by the authorized individual or systems operator who applied the device. Provide formal notification to the Government (by completing the Government form if provided by Contracting Officer's Representative), confirming that steps of de-energization and lockout/tagout removal procedure have been conducted and certified through inspection and verification. Government or Utility locks and tags used to support the Contractor's work will not be removed until the authorized Government employee receives the formal notification.

3.5 FALL PROTECTION PROGRAM

Establish a fall protection program, for the protection of all employees exposed to fall hazards. Within the program include company policy, identify roles and responsibilities, education and training requirements, fall hazard identification, prevention and control measures, inspection, storage, care and maintenance of fall protection equipment and rescue and evacuation procedures in accordance with ASSP Z359.2 and EM 385-1-1, Sections 21.A and 21.D.

3.5.1 Training

Institute a fall protection training program. As part of the Fall Protection Program, provide training for each employee who might be exposed to fall hazards and using personal fall protection equipment. Provide training by a competent person for fall protection in accordance with EM 385-1-1, Section 21.C. Document training and practical application of the competent person in accordance with EM 385-1-1, Section 21.C.04 and ASSP Z359.2 in the AHA.

3.5.2 Fall Protection Equipment and Systems

Enforce use of personal fall protection equipment and systems designated (to include fall arrest, restraint, and positioning) for each specific work activity in the Site Specific Fall Protection and Prevention Plan and AHA at all times when an employee is exposed to a fall hazard. Protect employees from fall hazards as specified in EM 385-1-1, Section 21.

Provide personal fall protection equipment, systems, subsystems, and components that comply with EM 385-1-1 Section 21.I, 29 CFR 1926.500 Subpart M,ASSP Z359.0, ASSP Z359.1, ASSP Z359.2, ASSP Z359.3, ASSP Z359.4, ASSP Z359.6, ASSP Z359.7, ASSP Z359.11, ASSP Z359.12, ASSP Z359.13, ASSP Z359.14, ASSP Z359.15, ASSP Z359.16 and ASSP Z359.18.

3.5.2.1 Additional Personal Fall Protection Measures

In addition to the required fall protection systems, other protective measures such as safety skiffs, personal floatation devices, and life rings, are required when working above or next to water in accordance with EM 385-1-1, Sections 21.O through 21.O.06. Personal fall protection

systems and equipment are required when working from an articulating or extendible boom, swing stages, or suspended platform. In addition, personal fall protection systems are required when operating other equipment such as scissor lifts. The need for tying-off in such equipment is to prevent ejection of the employee from the equipment during raising, lowering, travel, or while performing work.

3.5.2.2 Personal Fall Protection Equipment

Only a full-body harness with a shock-absorbing lanyard or self-retracting lanyard is an acceptable personal fall arrest body support device. The use of body belts is not acceptable. Harnesses must have a fall arrest attachment affixed to the body support (usually a Dorsal D-ring) and specifically designated for attachment to the rest of the system. Snap hooks and carabineers must be self-closing and self-locking, capable of being opened only by at least two consecutive deliberate actions and have a minimum gate strength of 3,600 lbs in all directions. Use webbing, straps, and ropes made of synthetic fiber. The maximum free fall distance when using fall arrest equipment must not exceed 6 feet, unless the proper energy absorbing lanyard is used. Always take into consideration the total fall distance and any swinging of the worker (pendulum-like motion), that can occur during a fall, when attaching a person to a fall arrest system. Equip all full body harnesses with Suspension Trauma Preventers such as stirrups, relief steps, or similar in order to provide short-term relief from the effects of orthostatic intolerance in accordance with EM 385-1-1, Section 21.I.06.

3.5.3 Fall Protection for Roofing Work

Implement fall protection controls based on the type of roof being constructed and work being performed. Evaluate the roof area to be accessed for its structural integrity including weight-bearing capabilities for the projected loading.

a. Low Sloped Roofs:

(1) For work within 6 feet from unprotected edge of a roof having a slope less than or equal to 4:12 (vertical to horizontal), protect personnel from falling by the use of conventional fall protection systems (personal fall arrest/restraint systems, guardrails, or safety nets) in accordance with EM 385-1-1, Section 21 and 29 CFR 1926.500. A safety monitoring system is not adequate fall protection and is not authorized.

(2) For work greater than 6 feet from the unprotected roof edge, addition to the use of conventional fall protection systems the use of a warning line system is also permitted, in accordance with 29 CFR 1926.500 and EM 385-1-1, Section 21.L.

b. Steep-Sloped Roofs: Work on a roof having a slope greater than 4:12 (vertical to horizontal) requires a personal fall arrest system, guardrails with toe-boards, or safety nets. This requirement also applies to residential or housing type construction.

3.5.4 Horizontal Lifelines (HLL)

Provide HLL in accordance with EM 385-1-1, Section 21.I.08.d.2. Commercially manufactured horizontal lifelines (HLL) must be designed, installed, certified and used, under the supervision of a qualified

person, for fall protection as part of a complete fall arrest system which maintains a safety factor of 2 (29 CFR 1926.500). The competent person for fall protection may (if deemed appropriate by the qualified person) supervise the assembly, disassembly, use and inspection of the HLL system under the direction of the qualified person. Locally manufactured HLLs are not acceptable unless they are custom designed for limited or site specific applications by a Registered Professional Engineer who is qualified in designing HLL systems.

3.5.5 Guardrails and Safety Nets

Design, install and use guardrails and safety nets in accordance with EM 385-1-1, Section 21.F.01 and 29 CFR 1926 Subpart M.

3.5.6 Rescue and Evacuation Plan and Procedures

When personal fall arrest systems are used, ensure that the mishap victim can self-rescue or can be rescued promptly should a fall occur. Prepare a Rescue and Evacuation Plan and include a detailed discussion of the following: methods of rescue; methods of self-rescue or assisted-rescue; equipment used; training requirement; specialized training for the rescuers; procedures for requesting rescue and medical assistance; and transportation routes to a medical facility. Include the Rescue and Evacuation Plan within the Activity Hazard Analysis (AHA) for the phase of work, in the Fall Protection and Prevention (FP&P) Plan, and the Accident Prevention Plan (APP). The plan must be in accordance with the requirements of EM 385-1-1, ASSP Z359.2, and ASSP Z359.4.

3.6 WORK PLATFORMS

3.6.1 Scaffolding

Provide employees with a safe means of access to the work area on the scaffold. Climbing of any scaffold braces or supports not specifically designed for access is prohibited. Comply with the following requirements:

a. Scaffold platforms greater than 20 feet in height must be accessed by use of a scaffold stair system.

b. Ladders commonly provided by scaffold system manufacturers are prohibited for accessing scaffold platforms greater than 20 feet maximum in height.

c. An adequate gate is required.

d. Employees performing scaffold erection and dismantling must be qualified.

e. Scaffold must be capable of supporting at least four times the maximum intended load, and provide appropriate fall protection as delineated in the accepted fall protection and prevention plan.

f. Stationary scaffolds must be attached to structural building components to safeguard against tipping forward or backward.

g. Special care must be given to ensure scaffold systems are not overloaded.

h. Side brackets used to extend scaffold platforms on self-supported

scaffold systems for the storage of material are prohibited. The first tie-in must be at the height equal to 4 times the width of the smallest dimension of the scaffold base.

i. Scaffolding other than suspended types must bear on base plates upon wood mudsills (2 in x 10 in x 8 in minimum) or other adequate firm foundation.

j. Scaffold or work platform erectors must have fall protection during the erection and dismantling of scaffolding or work platforms that are more than 6 feet.

k. Delineate fall protection requirements when working above 6 feet or above dangerous operations in the Fall Protection and Prevention (FP&P) Plan and Activity Hazard Analysis (AHA) for the phase of work.

3.6.2 Elevated Aerial Work Platforms (AWPs)

Workers must be anchored to the basket or bucket in accordance with manufacturer's specifications and instructions (anchoring to the boom may only be used when allowed by the manufacturer and permitted by the CP). Lanyards used must be sufficiently short to prohibit worker from climbing out of basket. The climbing of rails is prohibited. Lanyards with built-in shock absorbers are acceptable. Self-retracting devices are not acceptable. Tying off to an adjacent pole or structure is not permitted unless a safe device for 100 percent tie-off is used for the transfer.

Use of AWPs must be operated, inspected, and maintained as specified in the operating manual for the equipment and delineated in the AHA. Operators of AWPs must be designated as qualified operators by the Prime Contractor. Maintain proof of qualifications on site for review and include in the AHA.

3.7 EQUIPMENT

3.7.1 Material Handling Equipment (MHE)

a. Material handling equipment such as forklifts must not be modified with work platform attachments for supporting employees unless specifically delineated in the manufacturer's printed operating instructions. Material handling equipment fitted with personnel work platform attachments are prohibited from traveling or positioning while personnel are working on the platform.

b. The use of hooks on equipment for lifting of material must be in accordance with manufacturer's printed instructions. Material Handling Equipment Operators must be trained in accordance with OSHA 29 CFR 1910, Subpart N.

c. Operators of forklifts or power industrial trucks must be licensed in accordance with OSHA.

3.7.2 Load Handling Equipment (LHE)

The following requirements apply. In exception, these requirements do not apply to commercial truck mounted and articulating boom cranes used solely to deliver material and supplies (not prefabricated components, structural steel, or components of a systems-engineered metal building) where the lift consists of moving materials and supplies from a truck or trailer to

the ground; to cranes installed on mechanics trucks that are used solely in the repair of shore-based equipment; to crane that enter the activity but are not used for lifting; nor to other machines not used to lift loads suspended by rigging equipment. However, LHE accidents occurring during such operations must be reported.

a. Equip cranes and derricks as specified in EM 385-1-1, Section 16.

b. Notify the Contracting Officer 15 working days in advance of any LHE entering the activity, in accordance with EM 385-1-1, Section 16.A.02, so that necessary quality assurance spot checks can be coordinated. Contractor's operator must remain with the crane during the spot check. Rigging gear must be in accordance with OSHA, ASME B30.9 Standards safety standards.

c. Comply with the LHE manufacturer's specifications and limitations for erection and operation of cranes and hoists used in support of the work. Perform erection under the supervision of a designated person (as defined in ASME B30.5). Perform all testing in accordance with the manufacturer's recommended procedures.

d. Comply with ASME B30.5 for mobile and locomotive cranes, ASME B30.22 for articulating boom cranes, ASME B30.3 for construction tower cranes, ASME B30.8 for floating cranes and floating derricks, ASME B30.9 for slings, ASME B30.20 for below the hook lifting devices and ASME B30.26 for rigging hardware.

e. When operating in the vicinity of overhead transmission lines, operators and riggers must be alert to this special hazard and follow the requirements of EM 385-1-1 Section 11, and ASME B30.5 or ASME B30.22 as applicable.

f. Do not use crane suspended personnel work platforms (baskets) unless the Contractor proves that using any other access to the work location would provide a greater hazard to the workers or is impossible. Do not lift personnel with a line hoist or friction crane. Additionally, submit a specific AHA for this work to the Contracting Officer. Ensure the activity and AHA are thoroughly reviewed by all involved personnel.

g. Inspect, maintain, and recharge portable fire extinguishers as specified in NFPA 10, Standard for Portable Fire Extinguishers.

h. All employees must keep clear of loads about to be lifted and of suspended loads, except for employees required to handle the load.

i. Use cribbing when performing lifts on outriggers.

j. The crane hook/block must be positioned directly over the load. Side loading of the crane is prohibited.

k. A physical barricade must be positioned to prevent personnel access where accessible areas of the LHE's rotating superstructure poses a risk of striking, pinching or crushing personnel.

l. Maintain inspection records in accordance by EM 385-1-1, Section 16.D, including shift, monthly, and annual inspections, the signature of the person performing the inspection, and the serial number or other identifier of the LHE that was inspected. Records must be available

for review by the Contracting Officer.

m. Maintain written reports of operational and load testing in accordance with EM 385-1-1, Section 16.F, listing the load test procedures used along with any repairs or alterations performed on the LHE. Reports must be available for review by the Contracting Officer.

n. Certify that all LHE operators have been trained in proper use of all safety devices (e.g. anti-two block devices).

o. Take steps to ensure that wind speed does not contribute to loss of control of the load during lifting operations. At wind speeds greater than 20 mph, the operator, rigger and lift supervisor must cease all crane operations, evaluate conditions and determine if the lift may proceed. Base the determination to proceed or not on wind calculations per the manufacturer and a reduction in LHE rated capacity if applicable. Include this maximum wind speed determination as part of the activity hazard analysis plan for that operation.

q. Follow FAA guidelines when required based on project location.

3.7.3 Machinery and Mechanized Equipment

a. Proof of qualifications for operator must be kept on the project site for review.

b. Manufacture specifications or owner's manual for the equipment must be on-site and reviewed for additional safety precautions or requirements that are sometimes not identified by OSHA or USACE EM 385-1-1. Incorporate such additional safety precautions or requirements into the AHAs.

3.7.4 Base Mounted Drum Hoists

a. Operation of base mounted drum hoists must be in accordance with EM 385-1-1 and ASSP A10.22.

b. Rigging gear must be in accordance with applicable ASME/OSHA standards.

c. When used on telecommunication towers, base mounted drum hoists must be in accordance with TIA-1019, TIA-222, ASME B30.7, 29 CFR 1926.552, and 29 CFR 1926.553.

d. When used to hoist personnel, the AHA must include a written standard operating procedure. Operators must have a physical examination in accordance with EM 385-1-1 Section 16.B.05 and trained, at a minimum, in accordance with EM 385-1-1 Section 16.U and 16.T. The base mounted drum hoist must also comply with OSHA Instruction CPL 02-01-056 and ASME B30.23.

e. Material and personnel must not be hoisted simultaneously.

f. Personnel cage must be marked with the capacity (in number of persons) and load limit in pounds.

g. Construction equipment must not be used for hoisting material or personnel or with trolley/tag lines. Construction equipment may be used for towing and assisting with anchoring guy lines.

3.7.5 Use of Explosives

Explosives must not be used or brought to the project site without prior written approval from the Contracting Officer. Use of explosive must be in complaince with USAG Sfaety office. Such approval does not relieve the Contractor of responsibility for injury to persons or for damage to property due to blasting operations.

Storage of explosives, when permitted on Government property, must be only where directed and in approved storage facilities. These facilities must be kept locked at all times except for inspection, delivery, and withdrawal of explosives.

3.8 EXCAVATIONS

Soil classification must be performed by a competent person in accordance with 29 CFR 1926 and EM 385-1-1.

3.8.1 Utility Locations

Provide a third party, independent, private utility locating company to positively identify underground utilities in the work area in addition to any station locating service and coordinated with the station utility department. Refer to SECTION 01 11 00 SUMMARY OF WORK for Dig Safe Permit Requirement.

3.8.2 Utility Location Verification

Physically verify underground utility locations, including utility depth, by hand digging using wood or fiberglass handled tools when any adjacent construction work is expected to come within 3 feet of the underground system.

3.8.3 Utilities Within and Under Concrete, Bituminous Asphalt, and Other Impervious Surfaces

Utilities located within and under concrete slabs or pier structures, bridges, parking areas, and the like, are extremely difficult to identify. Whenever Contract work involves chipping, saw cutting, or core drilling through concrete, bituminous asphalt or other impervious surfaces, the existing utility location must be coordinated with station utility departments in addition to location and depth verification by a third party, independent, private locating company. The third party, independent, private locating company must locate utility depth by use of Ground Penetrating Radar (GPR), X-ray, bore scope, or ultrasound prior to the start of demolition and construction. Outages to isolate utility systems must be used in circumstances where utilities are unable to be positively identified. The use of historical drawings does not alleviate the Contractor from meeting this requirement.

3.9 ELECTRICAL

Perform electrical work in accordance with EM 385-1-1, Sections 11 and 12.

3.9.1 Conduct of Electrical Work

As delineated in EM 385-1-1, electrical work is to be conducted in a de-energized state unless there is no alternative method for accomplishing the work. In those cases obtain an energized work permit from the

Contracting Officer. The energized work permit application must be accompanied by the AHA and a summary of why the equipment/circuit needs to be worked energized. Underground electrical spaces must be certified safe for entry before entering to conduct work. Cables that will be cut must be positively identified and de-energized prior to performing each cut. Attach temporary grounds in accordance with ASTM F855 and IEEE 1048. Perform all high voltage cable cutting remotely using hydraulic cutting tool. When racking in or live switching of circuit breakers, no additional person other than the switch operator is allowed in the space during the actual operation. Plan so that work near energized parts is minimized to the fullest extent possible. Use of electrical outages clear of any energized electrical sources is the preferred method.

When working in energized substations, only qualified electrical workers are permitted to enter. When work requires work near energized circuits as defined by NFPA 70, high voltage personnel must use personal protective equipment that includes, as a minimum, electrical hard hat, safety shoes, insulating gloves and electrical arc flash protection for personnel as required by NFPA 70E. Insulating blankets, hearing protection, and switching suits may also be required, depending on the specific job and as delineated in the Contractor's AHA. Ensure that each employee is familiar with and complies with these procedures and 29 CFR 1910.147.

3.9.2 Qualifications

Electrical work must be performed by QP with verifiable credentials who are familiar with applicable code requirements. Verifiable credentials consist of State, National and Local Certifications or Licenses that a Master or Journeyman Electrician may hold, depending on work being performed, and must be identified in the appropriate AHA. Journeyman/Apprentice ratio must be in accordance with State, Local requirements applicable to where work is being performed.

3.9.3 Arc Flash

Conduct a hazard analysis/arc flash hazard analysis whenever work on or near energized parts greater than 50 volts is necessary, in accordance with NFPA 70E.

All personnel entering the identified arc flash protection boundary must be QPs and properly trained in NFPA 70E requirements and procedures. Unless permitted by NFPA 70E, no Unqualified Person is permitted to approach nearer than the Limited Approach Boundary of energized conductors and circuit parts. Training must be administered by an electrically qualified source and documented.

3.9.4 Grounding

Ground electrical circuits, equipment and enclosures in accordance with NFPA 70 and IEEE C2 to provide a permanent, continuous and effective path to ground unless otherwise noted by EM 385-1-1.

Check grounding circuits to ensure that the circuit between the ground and a grounded power conductor has a resistance low enough to permit sufficient current flow to allow the fuse or circuit breaker to interrupt the current.

3.9.5 Testing

Temporary electrical distribution systems and devices must be inspected, tested and found acceptable for Ground-Fault Circuit Interrupter (GFCI) protection, polarity, ground continuity, and ground resistance before initial use, before use after modification and at least monthly. Monthly inspections and tests must be maintained for each temporary electrical distribution system, and signed by the electrical CP or QP.

-- End of Section --

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DEPARTMENT OF THE ARMY
U.S. ARMY INSTALLATION MANAGEMENT COMMAND
UNITED STATES ARMY GARRISON WEST POINT
SAFETY AND OCCUPATIONAL HEALTH OFFICE
667A RUGER ROAD
WEST POINT, NEW YORK 10996

AMIM-MLG-SO (385-10v) 29 January 2021

MEMORANDUM FOR West Point Army Radiation Permit (ARP) Applicants

SUBJECT: West Point ARP Application Format and Procedure

1. References:

a. Title 32 Code of Federal Regulations, Part 655.10 (32CFR655.10), Oversight of radiation sources brought on Army land by non-Army entities (AR 385-10), 9 November 2018.

b. Department of the Army Pamphlet 385-24, Army Radiation Safety Program, 30 November 2015.

2. Non-Army agencies, to include vendors and civilian contractors, require an ARP to use, store, or possess ionizing radiation sources on Army lands IAW 32CFR655.10, Oversight of radiation sources brought on Army land by non-Army entities. The format to apply for a West Point ARP includes the following:

a. A letter applying for an ARP with supporting documentation identified below as Enclosures 1-12. In the letter the applicant must clearly identify the requested information in each enclosure. Enclosure 1 of the application for an ARP will vary depending on whether the jurisdiction status is exclusive Federal or concurrent with New York State (paragraph 2a(1) or 2a(b) below).

(1) Enclosure 1. For work in an area of exclusive Federal jurisdiction, submit one of the following:

(a) A copy of the NRC license that permits use or storage of radioactive sources, equipment, and devices at Army bases, garrisons, and installations; or

(b) A copy of a DOE radiological permit with documentation showing that it is valid for the location and operation; or

(c) A copy of an Agreement State License and if provided, then documentation to show the license is valid on Federal Property. This is usually NRC Form 241, Report of Proposed Activities in Non-Agreement States, Areas of Exclusive Federal Jurisdiction with the NRC in accordance with 10 CFR 150. If work is covered by NRC Form 241, then the work is limited to 180 days in a calendar year, otherwise an NRC license is required. If exempt from NRC licensing or under general licensing, proof of exemption or general licensing must be provided. For naturally occurring or accelerator produced radioactive material (NARM), the contractor must provide appropriate NRC or State authorization that allows the contractor to use

the radiation emitting sources, equipment, and devices. The licensing must show operational use conditions and restrictions with expiration date.

(2) Enclosure 1. For work in an area of concurrent jurisdiction with New York State, submit one of the following:

(a) A state radioactive material license issued by New York State; or

(b) An out-of-state license with host-state reciprocity; or

(c) A DOE radiological work permit.

(3) The documentation submitted must specify the start and stop dates for the ARP and describe why the applicant needs the ARP (Proposed Work Statement).

(4) Enclosure 2. Provide the portion of their contract that identifies the location(s) that the source will be used, the length of time required for the source, and the type of use for the source.

(5) Enclosure 3. A copy of the company's Radiation Safety Program (RSP).

(6) Enclosure 4. A current list of trained and qualified employees using the radiation emitting sources or radiation generating equipment, and their training records valid from the start date through the stop date of the requested ARP.

(7) Enclosure 5. The name of the contractor's Radiation Safety Officer (RSO) and emergency contact telephone number.

(8) Enclosure 6. Operating instruction(s) and technical order(s) for the equipment that contains the radioactive source.

(9) Enclosure 7. Designated storage location and how it will be secured if the radioactive source remains overnight.

(10) Enclosure 8. Proposed marking of the storage location if it exceeds two mR/hr as measured at the surface of the storage container.

(11) Enclosure 9. How the sources, equipment, and devices will be stored and secured during lunch hour and breaks.

(12) Enclosure 10. How exposure to contractors and Government personnel will be controlled, and what National Voluntary Laboratory Accreditation Program (NVLAP) accredited dosimetry is used for dose of record.

(13) Enclosure 11. Emergency Response Plan in case of an emergency for a lost or damaged source, equipment, and device, and over exposure incident and injury.

(14) Enclosure 12. Current leak tests on radiation sources, equipment, and devices.

3. Applicants submit their request to the West Point Safety Office, 667A Ruger Road, West Point, New York 10996 at least 30 calendar days prior to the proposed start date of the permit.

4. A map depicting areas of exclusive Federal and concurrent jurisdiction is attached.

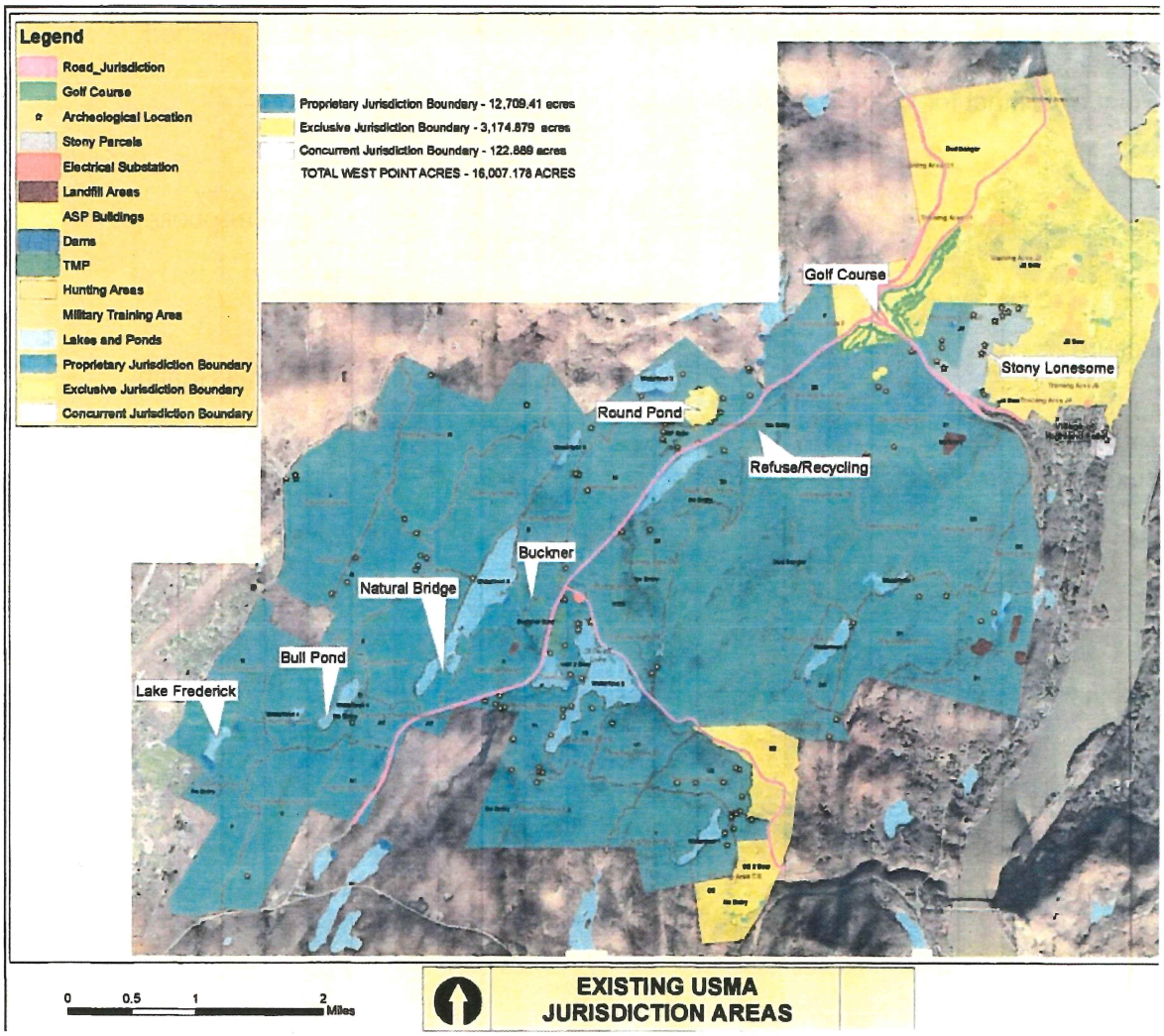
5. Point of contact for West Point ARPs is Julie M. Cusack at 845-938-6133.

KATZ.KEITH.THEODORE.1026519167 Digitally signed by KATZ.KEITH.THEODORE.1026519167 Date: 2021.01.29 15:17:54 -05'00'

KEITH T. KATZ
Director, Safety and Occupational Health

Enclosure

CF:
Director of Public Works


Legend
Road_Jurisdiction
Golf Course
Archeological Location
Stony Parcels
Electrical Substation
Landfill Areas
ASP Buildings
Dams
TMP
Hunting Areas
Military Training Area
Lakes and Ponds
Proprietary Jurisdiction Boundary
Exclusive Jurisdiction Boundary
Concurrent Jurisdiction Boundary
Proprietary Jurisdiction Boundary - 12,709.41 acres
Exclusive Jurisdiction Boundary - 3,174.879 acres
Concurrent Jurisdiction Boundary - 122.889 acres
TOTAL WEST POINT ACRES - 16,007.178 ACRES
Golf Course
Stony Lonesome
Round Pond
Refuse/Recycling
Buckner
Natural Bridge
Bull Pond
Lake Frederick
0 0.5 1 2 Miles
EXISTING USMA
JURISDICTION AREAS

Enclosure

WEST POINT ARMY RADIATION PERMIT (ARP)
REQUIRED ENCLOSURES

PROPOSED WORK STATEMENT: A letter applying for an ARP with supporting documentation identified below as Enclosures 1-12. In the letter, the applicant must clearly identify the requested information in each enclosure. The documentation submitted must specify the start and stop dates for the ARP, and describe why the applicant needs the ARP.

ENCLOSURE 1: Documentation varies depending on work area jurisdiction (Federal OR State). See the Map attached in ARP Applicant Memorandum to determine the area jurisdiction.

1. FEDERAL Jurisdiction- Submit ONE of the following:
    a. A copy of the NRC license that permits use or storage of radioactive sources, equipment, and devices at Army bases, garrisons, and installations; OR
    b. A copy of a DOE radiological permit with documentation showing that it is valid for the location and operation; OR
    c. A copy of an Agreement State License and if provided, then documentation to show the license is valid on Federal Property. This is usually NRC Form 241, Report of Proposed Activities in Non-Agreement States, Areas of Exclusive Federal Jurisdiction with the NRC in accordance with 10 CFR 150. If work is covered by NRC Form 241, then the work is limited to 180 days in a calendar year, otherwise an NRC license is required. If exempt from NRC licensing or under general licensing, proof of exemption or general licensing must be provided. For naturally occurring or accelerator produced radioactive material (NARM), the contractor must provide appropriate NRC or State authorization that allows the contractor to use the radiation emitting sources, equipment, and devices. The licensing must show operational use conditions and restrictions with expiration date.
2. STATE Jurisdiction- Submit ONE of the following:
    a. A state radioactive material license issued by New York State; OR
    b. An out-of-state license with host-state reciprocity; OR
    c. A DOE radiological work permit.

ENCLOSURE 2: Provide the portion of their contract that identifies the location(s) that the source will be used, the length of time required for the source, and the type of use for the source.

ENCLOSURE 3: A copy of the company's Radiation Safety Program (RSP).

ENCLOSURE 4: A current list of trained and qualified employees using the radiation emitting sources or radiation generating equipment, and their training records valid from the start date through the stop date of the requested ARP.

ENCLOSURE 5: The name of the contractor's Radiation Safety Officer (RSO) and emergency contact telephone number.

ENCLOSURE 6: Operating instruction(s) and technical order(s) for the equipment that contains the radioactive source.

ENCLOSURE 7: Designated storage location and how it will be secured if the radioactive source remains overnight.

ENCLOSURE 8: Proposed marking of the storage location if it exceeds two mR/hr as measured at the surface of the storage container.

ENCLOSURE 9: How the sources, equipment, and devices will be stored and secured during lunch hour and breaks.

ENCLOSURE 10: How exposure to contractors and Government personnel will be controlled, and what National Voluntary Laboratory Accreditation Program (NVLAP) accredited dosimetry is used for dose of record.

ENCLOSURE 11: Emergency Response Plan in case of an emergency for a lost or damaged source, equipment, and device, and over exposure incident and injury.

ENCLOSURE 12: Current leak tests on radiation sources, equipment, and devices.

PROPOSED WORK STATEMENT

A letter applying for an ARP with supporting documentation identified below as Enclosures 1-12. In the letter, the applicant must clearly identify the requested information in each enclosure. The documentation submitted must specify the start and stop dates for the ARP, and describe why the applicant needs the ARP.

ENCLOSURE 1

Documentation varies depending on work area jurisdiction. See the Map attached in ARP Applicant Memorandum to determine if the area jurisdiction is Federal or State.

If FEDERAL Jurisdiction

Submit ONE of the following:

1. A copy of the NRC license that permits use or storage of radioactive sources, equipment, and devices at Army bases, garrisons, and installations; OR
2. A copy of a DOE radiological permit with documentation showing that it is valid for the location and operation; OR
3. A copy of an Agreement State License and if provided, then documentation to show the license is valid on Federal Property. This is usually NRC Form 241, Report of Proposed Activities in Non-Agreement States, Areas of Exclusive Federal Jurisdiction with the NRC in accordance with 10 CFR 150. If work is covered by NRC Form 241, then the work is limited to 180 days in a calendar year, otherwise an NRC license is required. If exempt from NRC licensing or under general licensing, proof of exemption or general licensing must be provided. For naturally occurring or accelerator produced radioactive material (NARM), the contractor must provide appropriate NRC or State authorization that allows the contractor to use the radiation emitting sources, equipment, and devices. The licensing must show operational use conditions and restrictions with expiration date.

If STATE Jurisdiction

Submit ONE of the following:

1. A state radioactive material license issued by New York State; OR
2. An out-of-state license with host-state reciprocity; OR
3. A DOE radiological work permit.

ENCLOSURE 2

Provide the portion of their contract that identifies the location(s) that the source will be used, the length of time required for the source, and the type of use for the source.

ENCLOSURE 3

A copy of the company's Radiation Safety Program (RSP).

ENCLOSURE 4

A current list of trained and qualified employees using the radiation emitting sources or radiation generating equipment, and their training records valid from the start date through the stop date of the requested ARP.

ENCLOSURE 5

The name of the contractor's Radiation Safety Officer (RSO) and emergency contact telephone number.

ENCLOSURE 6

Operating instruction(s) and technical order(s) for the equipment that contains the radioactive source.

ENCLOSURE 7

Designated storage location and how it will be secured if the radioactive source remains overnight.

ENCLOSURE 8

Proposed marking of the storage location if it exceeds two mR/hr as measured at the surface of the storage container.

ENCLOSURE 9

How the sources, equipment, and devices will be stored and secured during lunch hour and breaks.

ENCLOSURE 10

How exposure to contractors and Government personnel will be controlled, and what National Voluntary Laboratory Accreditation Program (NVLAP) accredited dosimetry is used for dose of record.

ENCLOSURE 11

Emergency Response Plan in case of an emergency for a lost or damaged source, equipment, and device, and over exposure incident and injury.

ENCLOSURE 12

Current leak tests on radiation sources, equipment, and devices.

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SECTION 01 42 00

SOURCES FOR REFERENCE PUBLICATIONS
02/19

PART 1 GENERAL

1.1 REFERENCES

Various publications are referenced in other sections of the specifications to establish requirements for the work. These references are identified in each section by document number, date and title. The document number used in the citation is the number assigned by the standards producing organization (e.g., ASTM B564 Standard Specification for Nickel Alloy Forgings). However, when the standards producing organization has not assigned a number to a document, an identifying number has been assigned for reference purposes.

1.2 ORDERING INFORMATION

The addresses of the standards publishing organizations whose documents are referenced in other sections of these specifications are listed below, and if the source of the publications is different from the address of the sponsoring organization, that information is also provided.

AACE INTERNATIONAL (AACE)
1265 Suncrest Towne Centre Drive
Morgantown, WV 26505-1876 USA
Ph: 304-296-8444
Fax: 304-291-5728
Internet: https://web.aacei.org/

ACOUSTICAL SOCIETY OF AMERICA (ASA)
1305 Walt Whitman Road, Suite 300
Melville, NY 11747-4300
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Internet: https://acousticalsociety.org/

AIR BARRIER ASSOCIATION OF AMERICA (ABAA)
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Walpole, MA 02081
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Fax: 1-866-956-5819
Internet: https://www.airbarrier.org/

AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. (AMCA)
30 West University Drive
Arlington Heights, IL 60004-1893
Ph: 847-394-0150
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AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)
2111 Wilson Blvd, Suite 400

Arlington, VA 22201
Ph: 703-524-8800
Internet: http://www.ahrinet.org

ALUMINUM ASSOCIATION (AA)
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AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)
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Internet: https://www.americanbearings.org/

AMERICAN COLLEGE OF RADIOLOGY (ACR)
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AMERICAN CONCRETE INSTITUTE (ACI)
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AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
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Fax: 202-293-9287

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AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)
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AMERICAN WELDING SOCIETY (AWS)
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Internet: https://www.aws.org/

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AmericanHort (AH)
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APA - THE ENGINEERED WOOD ASSOCIATION (APA)
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ASME INTERNATIONAL (ASME)
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ASPHALT ROOFING MANUFACTURER'S ASSOCIATION (ARMA)
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CAST IRON SOIL PIPE INSTITUTE (CISPI)
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COPPER DEVELOPMENT ASSOCIATION (CDA)
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COUNCIL ON ENVIRONMENTAL QUALITY (CEQ) (WHITE HOUSE)
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EXPANSION JOINT MANUFACTURERS ASSOCIATION (EJMA)
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Internet: https://www.fmglobal.com/

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E-mail: info@us.fcs.org
Internet: https://us.fsc.org/

GLASS ASSOCIATION OF NORTH AMERICA (GANA)
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Fax: 703-442-0630
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GREEN SEAL (GS)
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Internet: https://www.greenseal.org/

GYPSUM ASSOCIATION (GA)
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Internet: https://www.gypsum.org/

HARDWOOD PLYWOOD AND VENEER ASSOCIATION (HPVA)
Decorative Hardwoods Association
42777 Trade West Dr.
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Internet: https://www.decorativehardwoods.org/

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ICC EVALUATION SERVICE, INC. (ICC-ES)
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INSTITUTE OF INSPECTION, CLEANING, AND RESTORATION CERTIFICATION (IICRC)
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INTELLIGENCE COMMUNITY STANDARD (ICS)
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INTERNATIONAL CAST POLYMER ASSOCIATION (ICPA)
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INTERNATIONAL CODE COUNCIL (ICC)
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Fax: 402-330-9702
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NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
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NATIONAL ELEVATOR INDUSTRY, INC. (NEII)
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NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB)
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NATIONAL FENESTRATION RATING COUNCIL (NFRC)
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NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)
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NATIONAL PARK SERVICE (NPS)
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P.O. Box 2605
Fredericksburg, TX 78624
Ph: 800-323-9736
Fax: 888-362-2770
E-mail: tech-info@ntma.com
Internet: https://www.ntma.com/

NAVY AND MARINE CORPS PUBLIC HEALTH CENTER (NMCPHC)
620 John Paul Jones Circle, Suite 1100
Portsmouth, VA 23708-2103
Ph: 757-953-0700
Internet: https://www.med.navy.mil/sites/nmcphc/Pages/Home.aspx

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU (NYSDOT)
50 Wolf Road
Albany, NY 12232
Ph: 518-457-6195
Internet:
https://www.dot.ny.gov/divisions/engineering/technical-services/materials-bure

NORTHEASTERN LUMBER MANUFACTURERS ASSOCIATION (NELMA)
272 Tuttle Road
Cumberland, ME 04021
Ph: 207-829-6901
Fax: 207-829-4293
E-mail: info@nelma.org
Internet: https://www.nelma.org/

NSF INTERNATIONAL (NSF)
789 North Dixboro Road
P.O. Box 130140
Ann Arbor, MI 48105
Ph: 734-769-8010 or 800-NSF-MARK
Fax: 734-769-0109
E-mail: info@nsf.org
Internet: http://www.nsf.org

PLASTIC PIPE AND FITTINGS ASSOCIATION (PPFA)
800 Roosevelt Road
Building C, Suite 312
Glen Ellyn, IL 60137
Ph: 630-858-6540
Fax: 630-790-3095
Internet: https://www.ppfahome.org/

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North Andover, MA 01845
Ph: 978-557-0720 or 800-589-8956
E-Mail: pdi@PDIonline.org
Internet: http://www.pdionline.org

PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI)
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Chicago, IL 60606
Ph: 312-786-0300
Bookstore: 312-428-4946
Internet: https://www.pci.org/

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818 Grayson Road, Suite 201
Pleasant Hill, CA 94523
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Fax: 925-935-1496
Internet:
https://www.wwpa.org/about-wwpa/redwood-inspection-service

RESILIENT FLOOR COVERING INSTITUTE (RFCI)
115 Broad Street
Suite 201
LaGrange, Georgia 30240
Internet: https://rfci.com/

SCIENTIFIC CERTIFICATION SYSTEMS (SCS)
2000 Powell Street, Suite 600
Emeryville, CA 94608
Ph: 510-452-8000
Fax: 510-452-8001
E-mail: info@SCSglobalservices.com
Internet: https://www.scsglobalservices.com/

SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)
4201 Lafayette Center Drive
Chantilly, VA 20151-1219
Ph: 703-803-2980
Fax: 703-803-3732
Internet: https://www.smacna.org/

SINGLE PLY ROOFING INDUSTRY (SPRI)
465 Waverley Oaks Road, Suite 421
Waltham, MA 02452
Ph: 781-647-7026
Fax: 781-647-7222
E-mail: info@spri.org
Internet: https://www.spri.org/

SOCIETY FOR PROTECTIVE COATINGS (SSPC)
800 Trumbull Drive
Pittsburgh, PA 15205
Ph: 877-281-7772 or 412-281-2331
Fax: 412-444-3591
E-mail: customerservice@sspc.org
Internet: http://www.sspc.org

SOCIETY OF AUTOMOTIVE ENGINEERS INTERNATIONAL (SAE)
400 Commonwealth Drive
Warrendale, PA 15096
Ph: 877-606-7323 or 724-776-4841

Fax: 724-776-0790
E-mail: customerservice@sae.org
Internet: https://www.sae.org/

SOCIETY OF CABLE TELECOMMUNICATIONS ENGINEERS (SCTE)
140 Philips Road
Exton, PA 19341-1318
Ph: 800-542-5040 or 610-363-6888
Fax: 610-884-7237
E-Mail: info@scte.org
Internet: https://www.scte.org/

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)
21865 Copley Drive
Diamond Bar, CA 91765
Ph: 909-396-2000
E-mail: webinquiry@aqmd.gov
Internet: http://www.aqmd.gov

SOUTHERN CYPRESS MANUFACTURERS ASSOCIATION (SCMA)
665 Rodi Road, Suite 305
Pittsburgh, PA 15235
Ph: 412-244-0440
Fax: 412-244-9090
Internet: http://www.cypressinfo.org

SOUTHERN PINE INSPECTION BUREAU (SPIB)
P.O. Box 10915
Pensacola, FL 32524-0915
Ph: 850-434-2611 or 800-995-7742
Fax: 850-434-1290
E-mail: spib@spib.org
Internet: https://www.spib.org/

SPRAY POLYURETHANE FOAM ALLIANCE (SPFA)
3927 Old Lee Hwy. #101B
Fairfax, VA 22030
Ph: 800-523-6154
Fax: 703-222-5816
Internet: http://www.sprayfoam.org

STATE OF CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS, BUREAU OF ELECTRICAL AND APPLIANCE REPAIR, HOME FURNISHINGS AND THERMAL INSULATION (BEARHFTI)
4244 South Market Court, Suite D
Sacramento, CA 95834-1243
Ph: 916-999-2041
Fax: 916-921-7279
E-mail: HomeProducts@dca.ca.gov
Internet: https://www.bearhfti.ca.gov/

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC)
625 Broadway
Albany, New York 12233-0001
Internet: https://www.dec.ny.gov/

STEEL DECK INSTITUTE (SDI)
P.O. Box 426
Glenshaw, PA 15116

Ph: 412-487-3325
Fax: 412-487-3326
Internet: https://www.sdi.org/

STEEL DOOR INSTITUTE (SDI/DOOR)
30200 Detroit Road
Westlake, OH 44145
Ph: 440-899-0010
Fax: 440-892-1404
E-mail: info@steeldoor.org
Internet: https://www.steeldoor.org/

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA)
1320 North Courthouse Rosd, Suite 200
Arlington, VA 22201
Ph: 703-907-7700
Fax: 703-907-7727
E-mail: marketing@tiaonline.org
Internet: https://www.tiaonline.org/

THE MASONRY SOCIETY (TMS)
105 South Sunset Street, Suite Q
Longmont, CO 80501-6172
Ph: 303-939-9700
Fax: 303-541-9215
E-mail: info@masonrysociety.org
https://masonrysociety.org/

TILE COUNCIL OF NORTH AMERICA (TCNA)
100 Clemson Research Boulevard
Anderson, SC 29625
Ph: 864-646-8453
Fax: 864-646-2821
E-mail: info@tileusa.com
Internet: https://www.tcnatile.com/

TREE CARE INDUSTRY ASSOCIATION (TCIA)
136 Harvey Road, Suite 101
Londonderry, NH 03053
Ph: 603-314-5380 or 800-733-2622
Fax: 603-314-5386
Internet: https://tcia.org/

TRIDIUM, INC (TRIDIUM)
3951 Westerre Parkway, Suite 350
Richmond, VA 23233
Ph: 804-747-4771
Fax: 804-747-5204
E-mail: support@tridium.com
Internet: https://www.tridium.com/

TURFGRASS PRODUCERS INTERNATIONAL (TPI)
444 E. Roosevelt Road
#346
Lombard, IL 60148
Ph: 800-405-8873 or 847-649-5555
Fax: 847-649-5678
E-mail: info@turfgrasssod.org
Internet: http://www.turfgrasssod.org

U.S. ARMY CORPS OF ENGINEERS (USACE)
CRD-C DOCUMENTS available on Internet:
http://www.wbdg.org/ffc/army-coe/standards
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Official Publications of the Headquarters, USACE
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Internet: http://www.publications.usace.army.mil/
or
https://www.hnc.usace.army.mil/Missions/Engineering-Directorate/TECHINFO/

U.S. DEFENSE LOGISTICS AGENCY (DLA)
Andrew T. McNamara Building
8725 John J. Kingman Road
Fort Belvoir, VA 22060-6221
Ph: 877-352-2255
E-mail: dlacontactcenter@dla.mil
Internet: http://www.dla.mil

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Internet:
https://www.rd.usda.gov/about-rd/agencies/rural-utilities-service

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Obtain Military Specifications, Standards and Related Publications from:
Acquisition Streamlining and Standardization Information System (ASSIST)
Department of Defense Single Stock Point (DODSSP)
Document Automation and Production Service (DAPS)
Building 4/D
700 Robbins Avenue
Philadelphia, PA 19111-5094
Ph: 215-697-6396 - for account/password issues
Internet: https://assist.dla.mil/online/start/; account registration required

Obtain Unified Facilities Criteria (UFC) from:
Whole Building Design Guide (WBDG)
National Institute of Building Sciences (NIBS)
1090 Vermont Avenue NW, Suite 700
Washington, DC 20005
Ph: 202-289-7800
Fax: 202-289-1092
Internet:
https://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc

U.S. DEPARTMENT OF ENERGY (DOE)
1000 Independence Avenue Southwest
Washington, D.C. 20585
Ph: 202-586-5000
Fax: 202-586-4403
E-mail: The.Secretary@hq.doe.gov
Internet: https://www.energy.gov/

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD)
HUD User
P.O. Box 23268
Washington, DC 20026-3268
Ph: 800-245-2691 or 202-708-3178
TDD: 800-927-7589
Fax: 202-708-9981
E-mail: helpdesk@huduser.gov
Internet: https://www.huduser.gov

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
1200 Pennsylvania Avenue, N.W.
Washington, DC 20004
Ph: 202-564-4700
Internet: https://www.epa.gov
--- Some EPA documents are available only from:
National Technical Information Service (NTIS)
5301 Shawnee Road
Alexandria, VA 22312
Ph: 703-605-6060 or 1-800-363-2068
Fax: 703-605-6880
TDD: 703-487-4639
E-mail: info@ntis.gov
Internet: https://www.ntis.gov/

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Internet: https://assist.dla.mil/online/start/; account registration required

U. S. GREEN BUILDING COUNCIL (USGBC)
2101 L St NW, Suite 500
Washington, DC 20037
Ph: 202-828-7422
Internet: https://new.usgbc.org/

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Internet: https://www.gpo.gov/

U.S. NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC)
1322 Patterson Ave. SE, Suite 1000
Washington Navy Yard, DC 20374-5065
Ph: 202-685-9387
Internet: http://www.navfac.navy.mil

UNDERWRITERS LABORATORIES (UL)
2600 N.W. Lake Road
Camas, WA 98607-8542
Ph: 877-854-3577 or 360-817-5500
E-mail: CustomerExperienceCenter@ul.com
Internet: https://www.ul.com/

UL Directories available through IHS at https://ihsmarkit.com/

UNDERWRITERS LABORATORIES OF CANADA (ULC)
7 Underwriters Road
Toronto, Ontario, Canada M1R 3A9
Ph: 866-937-3852
Fax: 416.757.8727
E-mail: cec@ul.com
Internet: https://canada.ul.com/

VIBRATION ISOLATION AND SEISMIC CONTROL MANUFACTURERS ASSOCIATION (VISCMA)
994 Old Eagle School Road
Suite 1019
Wayne, PA 19087-1866
Ph: 610-971-4850
E-mail: info@viscma.com
Internet: http://www.viscma.com

WEST COAST LUMBER INSPECTION BUREAU (WCLIB)
6980 S.W. Varns
Tigard, OR 97223
Ph: 503-639-0651
Fax: 503-684-8928
E-mail: info@wclib.org
Internet: http://www.wclib.org

WEST POINT MILITARY ACADEMY INSTALLATION STANDARDS
93d SIG BDE, Network Enterprise Center
2101 New South Post Rd
New York, NY 10996
Canh Ngo, IT Engineer
Com (845) 938-7316
DSN 688-7316
Email: canh.ngo.civ@mail.mil

WESTERN WOOD PRODUCTS ASSOCIATION (WWPA)
1500 SW First Ave., Suite 870
Portland, OR 97201
Ph: 503-224-3930
E-mail: info@wwpa.org
Internet: http://www.wwpa.org

WINDOW AND DOOR MANUFACTURERS ASSOCIATION (WDMA)
2025 M Street, NW, Suite 800
Washington, DC 20036-3309
Ph: 202-367-1157
or
330 N Wabash Avenue, Suite 2000
Chicago, IL 60611
Ph: 312-321-6802
E-mail: membersupport@wdma.com
Internet: https://www.wdma.com/

WOOD MOULDING AND MILLWORK PRODUCERS ASSOCIATION (WMMPA)
507 First Street
Woodland, CA 95695
Ph: 530-661-9591
Fax: 530-661-9586

E-mail: info@wmmpa.com
Internet: https://www.wmmpa.com/

WOODWORK INSTITUTE (WI)
3188 Industrial Blvd.
West Sacramento, CA 95691
Ph: 916-372-9943
Fax: 916-372-9950
E-mail: info@woodinst.com
Internet: https://woodworkinstitute.com

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

-- End of Section --

CODES AND STANDARDS

APPENDIX 1 CODES AND STANDARDS (ALL DISCIPLINES):

CIVIL

Unified Facilities Criteria

- UFC 3-201-01, Civil Engineering
- UFC 3-201-02, Landscape Architecture
- UFC 3-220-04FA, Backfill for Subsurface Structures
- UFC 3-220-05, Dewatering and Groundwater Control
- UFC 3-220-06, Grouting Methods and Equipment
- UFC 3-230-01 Water Storage, Distribution, and Transmission
- UFC 3-230-02 O&M: Water Supply Systems
- UFC 3-250-01, Pavement Design for Roads and Parking Areas
- UFC 3-250-03, Standard Practice Manual for Flexible Pavements
- UFC 3-250-04 Standard Practice for Concrete Pavements
- UFC 3-270-01 Asphalt Maintenance and Repair
- UFC 3-270-08 Pavement Maintenance Management

Codes & Standards

- City Light & Power Electric Service Connection Standards Manual for US Army Garrison
- Department of Public Works Engineering Planning Standards
- DPW Engineering Planning Standards
- State of New York Department of Transportation, Standard Specifications
- US Army Corps of Engineers New York District, Engineering Planning Standards
- West Point Engineering Planning Standards

MECHANICAL

Unified Facilities Criteria

- UFC 1-200-01: DoD Building Code (2019)
- UFC 1-200-02: High Performance and Sustainable Building Requirements (Change 4, 2019)
- UFC 3-400-02: Engineering Weather Data (2018)
- UFC 3-401-01: Mechanical Engineering (Change 1, 2015)
- UFC 3-410-01: Heating, Ventilating, and Air Conditioning Systems (Change 5, 2019)
- UFC 3-410-02: Direct Digital Control for HVAC and Other Building Control Systems (2018)
- UFC 3-450-01: Noise and Vibration Control (2003)
- UFC 4-010-01: DoD Minimum Antiterrorism Standards for Buildings (2018)

CODES AND STANDARDS

Codes & Standards

- Americans with Disabilities Act (ADA) Accessibility Guidelines
- ASHRAE Handbook – Fundamentals (2021)
- ASHRAE Handbook – HVAC Applications (2019)
- ASHRAE Handbook – HVAC Systems and Equipment (2020)
- ASHRAE Std. 15 - Safety Standard for Refrigeration Systems (2016)
- ASHRAE Std. 90.1 - Energy Standard for Buildings except Low-Rise Residential Buildings (2010, 2013, 2016)
- Engineering Planning Standards – United States Army Garrison – West Point, NY (2016)
- EPACT - Energy Policy Act (2005)
- IBC – International Building Code (2018)
- IEBC – International Existing Building Code (2018)
- IECC – International Energy Conservation Code (2018)
- IMC – International Mechanical Code (2018)
- NFPA 101: Life Safety Code
- UL - Underwriters Laboratories, Inc.
- West Point Engineering Planning Standards

ELECTRICAL

Unified Facilities Criteria

- UFC 3-501-01 Electrical Engineering
- UFC 3-520-01 Interior Electrical System
- UFC 3-530-01 Design Interior and Exterior Lighting and Controls
- UFC 3-550-01 Exterior Electrical Power Distribution
- UFC 3-560-01 Electrical Safety, O&M
- UFC 3-570-01 Cathodic Protection
- UFC 3-575-01 Lightning and Static Electricity Protection Systems

Codes & Standards

- ANSI/ASHRAE Standard 90.1-2016: Energy Standard for Buildings
- City Light & Power Electric Service Connection Standards Manual for US Army Garrison
- Energy Policy Act (EPAct)
- Illuminating Engineering Society (IES) Lighting Standards
- National Electrical Code 2020
- National Electrical Manufacturer's Association (NEMA)
- National Electrical Safety Code, ANSI C2 - Latest Addition
- NFPA 780 Standard for the Installation of Lightning Protection Systems

CODES AND STANDARDS

- NYS Energy Conservation Construction Code
- The Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- Underwriters Laboratory, Inc. (UL)
- West Point Engineering Planning Standards

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SECTION 01 45 00.00 10

QUALITY CONTROL
11/16

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM D3740	(2019) Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
ASTM E329	(2020) Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection

1.2 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program. Include all associated costs in the applicable Bid Schedule item.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Contractor Quality Control (CQC) Plan; G, RO

SD-06 Test Reports

Verification Statement

SD-07 Certificates

QCR Report; G, RO

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

Establish and maintain an effective quality control (QC) system that complies with FAR 52.246-12 Inspection of Construction. QC consist of plans, procedures, and organization necessary to produce an end product which complies with the Contract requirements. The QC system covers all construction operations, both onsite and offsite, and be keyed to the proposed construction sequence. The project superintendent will be held responsible for the quality of work and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the Contract. In this context the highest level manager responsible for the overall construction activities at the site, including quality and production is the project superintendent. The project superintendent maintains a physical presence at the site at all times and is responsible for all construction and related activities at the site, except as otherwise acceptable to the Contracting Officer.

3.2 CONTRACTOR QUALITY CONTROL (CQC) PLAN

Submit no later than 15 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements FAR 52.246-12 Inspection of Construction. The Government will consider an interim plan for this project. Construction will be permitted to begin only after acceptance of the CQC Plan.

3.2.1 Content of the CQC Plan

Include, as a minimum, the following to cover all construction-operations, both onsite and offsite, including work by subcontractors fabricators, suppliers and purchasing agents:

a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff will implement the three phase control system for all aspects of the work specified. Include a CQC System Manager that reports to the project superintendent.

b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.

c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the Contract. Letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities will be issued by the CQC System Manager. Furnish copies of these letters to the Contracting Officer.

d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures must be in accordance with Section 01 33 00 SUBMITTAL PROCEDURES.

e. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and

person responsible for each test. (Laboratory facilities approved by the Contracting Officer are required to be used.)

f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.

g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. Establish verification procedures that identified deficiencies have been corrected.

h. Reporting procedures, including proposed reporting formats.

i. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks, has separate control requirements, and is identified by different trades or disciplines, or it is work by the same trade in a different environment. Although each section of the specifications can generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section. This list will be agreed upon during the coordination meeting.

j. Coordinate scheduled work with Special Inspections required by Section 01 45 35 SPECIAL INSPECTIONS, the Statement of Special Inspections and the Schedule of Special Inspections. Where the applicable Code issue by the International Code Council (ICC) calls for inspections by the Building Official, the Contractor must include the inspections in the Quality Control Plan and must perform the inspections required by the applicable ICC. The Contractor must perform these inspections using independent qualified inspectors. Include the Special Inspection Plan requirements in the QC Plan.

3.2.2 Acceptance of Plan

Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in the Contractor Quality Control(CQC) Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

3.2.3 Notification of Changes

After acceptance of the CQC Plan, notify the Contracting Officer in writing of any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

3.3 COORDINATION MEETING

After, if not completed during, the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the CQC Plan, meet with the Contracting Officer and discuss the Contractor's quality control system. Submit the CQC Plan a minimum of 14 calendar days prior to the Coordination Meeting.

Routine coordination meetings will be scheduled by the Contracting Officer throughout the life of this Contract. Coordination meetings will be held to discuss contract administration, Contractor quality control, phasing,

scheduling, and other aspects relating to this construction. The Corps of Engineers and the Contractor will be represented at each of these meetings. Similar information concerning replacement personnel must be forwarded to the Contracting Officer, should any replacement be required at any time during the life of this Contract. Coordination meetings will be scheduled to occur on a weekly basis.

Furthermore, during the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations,, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting will be prepared by the Contractor, signed by both the Contractor and the Contracting Officer and will become a part of the contract file. There can be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings or address deficiencies in the CQC system or procedures which can require corrective action by the Contractor.

The Contractor must provide typed minutes of each meeting within three days of meeting.

3.4 QUALITY CONTROL ORGANIZATION

3.4.1 Personnel Requirements

The requirements for the CQC organization are a Safety and Health Manager, CQC System Manager, and sufficient number of additional qualified personnel as specified in 01 30 00 ADMINISTRATIVE REQUIREMENTS to ensure safety and Contract compliance. The Safety and Health Manager reports directly to a senior project (or corporate) official independent from the CQC System Manager. The Safety and Health Manager will also serve as a member of the CQC Staff Personnel identified in the technical provisions as requiring specialized skills to assure the required work is being performed properly will also be included as part of the CQC organization. The Contractor's CQC staff maintains a presence at the site at all times during progress of the work and have complete authority and responsibility to take any action necessary to ensure Contract compliance. The CQC staff will be subject to acceptance by the Contracting Officer. Provide adequate office space, filing systems and other resources as necessary to maintain an effective and fully functional CQC organization. Promptly complete and furnish all letters, material submittals, shop drawing submittals, schedules and all other project documentation to the CQC organization. The CQC organization is responsible to maintain these documents and records at the site at all times, except as otherwise acceptable to the Contracting Officer.

3.4.2 CQC System Manager

Identify as CQC System Manager an individual within the onsite work organization that is responsible for overall management of CQC and has the authority to act in all CQC matters for the Contractor. This CQC System Manager is on the site at all times during construction and is employed by the prime Contractor. The CQC System Manager is assigned no other duties. Identify in the plan an alternate to serve in the event of the CQC System Manager's absence. The requirements for the alternate are the same as the CQC System Manager.

3.4.3 CQC Personnel

In addition to CQC personnel specified elsewhere in the contract, provide as part of the CQC organization specialized personnel to assist the CQC System Manager for the following areas: electrical, mechanical, structural, architectural, and materials technician, and Cx Agent/LEED Specialist, . These individuals or specialized technical companies are directly employed by the prime Contractor and can not be employed by a supplier or subcontractor on this project; in addition to the requirements specified in 01 30 00 ADMINISTRATIVE REQUIREMETNS, be responsible to the CQC System Manager; be physically present at the construction site during work on the specialized personnel's areas of responsibility; have the necessary education or experience in accordance with the experience matrix listed herein.

Experience Matrix	
Area	Qualifications
Mechanical	Graduate Mechanical Engineer with 2 yrs experience or person with 5 years of experience supervising mechanical features of work in the field with a construction company
Electrical	Graduate Electrical Engineer with 2 years related experience or person 5 years of experience supervising electrical features of work in the field with a construction company
Structural	Graduate Civil Engineer (with Structural Track or Focus) or Construction Manager with 2 years experience or person 5 years of experience supervising structural features of work in the field with a construction company
Architectural	Graduate Architect with 2 years experience or person with 5 years related experience
Concrete, Pavements and Soils	Materials Technician with 2 years experience for the appropriate area
Testing, Adjusting and Balancing (TAB) Personnel	Specialist must be a member of AABC or an experienced technician of the firm certified by the NEBB

3.4.4 Additional Requirement

In addition to the above experience and education requirements, the Contractor Quality Control(CQC) System Manager and Assistant CQC System Manager are required to have completed the Construction Quality Management (CQM) for Contractors course. If the CQC System Manager does not have a current certification, obtain the CQM for Contractors course certification

within 90 days of award. This course is periodically offered by the Naval Facilities Engineering Command and the Army Corps of Engineers. Contact the Contracting Officer for information on the next scheduled class.

The Construction Quality Management Training certificate expires after 5 years. If the CQC System Manager's certificate has expired, retake the course to remain current.

3.4.5 Organizational Changes

Maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance.

3.5 SUBMITTALS AND DELIVERABLES

Submittals, if needed, have to comply with the requirements in Section 01 33 00 SUBMITTAL PROCEDURES. The CQC organization is responsible for certifying that all submittals and deliverables are in compliance with the contract requirements. When Section 01 91 00.15 10 TOTAL BUILDING COMMISSIONING are included in the contract, the submittals required by those sections have to be coordinated with Section 01 33 00 SUBMITTAL PROCEDURES to ensure adequate time is allowed for each type of submittal required.

3.6 CONTROL

CQC is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. At least three phases of control are required to be conducted by the CQC System Manager for each definable feature of the construction work as follows:

3.6.1 Preparatory Phase

This phase is performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase includes:

a. A review of each paragraph of applicable specifications, reference codes, and standards. Make available during the preparatory inspection a copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field. Maintain and make available in the field for use by Government personnel until final acceptance of the work.

b. Review of the Contract drawings.

c. Check to assure that all materials and equipment have been tested, submitted, and approved.

d. Review of provisions that have been made to provide required control inspection and testing.

e. Review Special Inspections required by Section 01 45 35 SPECIAL INSPECTIONS, the Statement of Special Inspections and the Schedule of Special Inspections.

f. Examination of the work area to assure that all required preliminary

work has been completed and is in compliance with the Contract.

g. Examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.

h. Review of the appropriate activity hazard analysis to assure safety requirements are met.

i. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.

j. Check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.

k. Discussion of the initial control phase.

l. The Government needs to be notified at least 48 hours in advance of beginning the preparatory control phase. Include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. Document the results of the preparatory phase actions by separate minutes prepared by the CQC System Manager and attach to the daily CQC report. Instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

3.6.2 Initial Phase

This phase is accomplished at the beginning of a definable feature of work (DFW) when the accomplishment of a representative sample of the work is impending. Accomplish the following:

a. Check work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.

b. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing are in compliance with the contract.

c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.

d. Resolve all differences.

e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.

f. The Government needs to be notified at least 48 hours in advance of beginning the initial phase for definable feature of work. Prepare separate minutes of this phase by the CQC System Manager and attach to the daily CQC report. Indicate the exact location of initial phase for definable feature of work for future reference and comparison with follow-up phases.

g. The initial phase for each definable feature of work is repeated for

each new crew to work onsite, or any time acceptable specified quality standards are not being met.

h. Coordinate scheduled work with Special Inspections required by Section 01 45 35 SPECIAL INSPECTIONS, the Statement of Special Inspections and the Schedule of Special Inspections.

3.6.3 Follow-up Phase

Perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work which may be affected by the deficient work. Do not build upon nor conceal non-conforming work. Coordinate scheduled work with Special Inspections required by Section 01 45 35 SPECIAL INSPECTIONS, the Statement of Special Inspections and the Schedule of Special Inspections.

3.6.4 Additional Preparatory and Initial Phases

Conduct additional preparatory and initial phases on the same definable features of work if: the quality of on-going work is unacceptable; if there are changes in the applicable CQC staff, onsite production supervision or work crew; if work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

3.7 TESTS

3.7.1 Testing Procedure

Perform specified or required tests to verify that control measures are adequate to provide a product which conforms to contract requirements. Upon request, furnish to the Government duplicate samples of test specimens for possible testing by the Government. Testing includes operation and acceptance tests when specified. Procure the services of a Corps of Engineers approved testing laboratory or establish an approved testing laboratory at the project site. Perform the following activities and record and provide the following data:

a. Verify that testing procedures comply with contract requirements.

b. Verify that facilities and testing equipment are available and comply with testing standards.

c. Check test instrument calibration data against certified standards.

d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.

e. Record results of all tests taken, both passing and failing on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test. If approved by the Contracting Officer, actual test reports are submitted later with a reference to the test number and date taken. Provide an information copy of tests performed by an offsite or commercial test facility directly to the Contracting Officer. Failure to submit timely test reports as stated results in

nonpayment for related work performed and disapproval of the test facility for this Contract.

3.7.2 Testing Laboratories

All testing laboratories must be validated by the USACE Material Testing Center (MTC) for the tests to be performed. Information on the USACE MTC with web-links to both a list of validated testing laboratories and for the laboratory inspection request for can be found at: https://mtc.erdc.dren.mil/.

3.7.2.1 Capability Check

The Government reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth in the contract specifications and to check the laboratory technician's testing procedures and techniques. Laboratories utilized for testing soils, concrete, asphalt, and steel is required to meet criteria detailed in ASTM D3740 and ASTM E329.

3.7.2.2 Capability Recheck

If the selected laboratory fails the capability check, the Contractor will be assessed a charge of 1,000 dollars to reimburse the Government for each succeeding recheck of the laboratory or the checking of a subsequently selected laboratory. Such costs will be deducted from the Contract amount due the Contractor.

3.7.3 Onsite Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance tests, and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

3.8 COMPLETION INSPECTION

3.8.1 Punch-Out Inspection

Conduct an inspection of the work by the CQC System Manager near the end of the work, or any increment of the work established by a time stated in FAR 52.211-10 Commencement, Prosecution, and Completion of Work, or by the specifications. Prepare and include in the CQC documentation a punch list of items which do not conform to the approved drawings and specifications, as required by paragraph DOCUMENTATION. Include within the list of deficiencies the estimated date by which the deficiencies will be corrected. Make a second inspection the CQC System Manager or staff to ascertain that all deficiencies have been corrected. Once this is accomplished, notify the Government that the facility is ready for the Government Pre-Final inspection.

3.8.2 Pre-Final Inspection

The Government will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A Government Pre-Final Punch List may be developed as a result of this inspection. Ensure that all items on this list have been corrected before notifying the Government, so that a Final inspection with the customer can be scheduled. Correct any items noted on the Pre-Final inspection in a

timely manner. These inspections and any deficiency corrections required by this paragraph need to be accomplished within the time slated for completion of the entire work or any particular increment of the work if the project is divided into increments by separate completion dates.

3.8.3 Final Acceptance Inspection

The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the Contracting Officer's Representative is required to be in attendance at the final acceptance inspection. Additional Government personnel including, but not limited to, those from Base/Post Civil Facility Engineer user groups, and major commands can also be in attendance. The final acceptance inspection will be formally scheduled by the Contracting Officer based upon results of the Pre-Final inspection. Notify the Contracting Officer at least 14 days prior to the final acceptance inspection and include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work performed under the Contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the Contracting Officer to bill the Contractor for the Government's additional inspection cost in accordance FAR 52.246-12 Inspection of Construction.

3.9 DOCUMENTATION

3.9.1 Quality Control Activities

Maintain current records providing factual evidence that required quality control activities and tests have been performed. Include in these records the work of subcontractors and suppliers on an acceptable form that includes, as a minimum, the following information:

a. The name and area of responsibility of the Contractor/Subcontractor.

b. Operating plant/equipment with hours worked, idle, or down for repair.

c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.

d. Test and control activities performed with results and references to specifications/drawings requirements. Identify the control phase (Preparatory, Initial, Follow-up). List of deficiencies noted, along with corrective action.

e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.

f. Submittals and deliverables reviewed, with Contract reference, by whom, and action taken.

g. Offsite surveillance activities, including actions taken.

h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.

i. Instructions given/received and conflicts in plans and specifications.

3.9.2 Verification Statement

Indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. Cover both conforming and deficient features and include a statement that equipment and materials incorporated in the work and workmanship comply with the Contract. Furnish the original and one copy of these records in report form to the Government daily within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, prepare and submit one report for every 7 days of no work and on the last day of a no work period. All calendar days need to be accounted for throughout the life of the contract. The first report following a day of no work will be for that day only. Reports need to be signed and dated by the Contractor Quality Control(CQC) System Manager. Include copies of test reports and copies of reports prepared by all subordinate quality control personnel within the CQC System Manager Report.

3.10 SAMPLE FORMS

The RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE(RMS CM) is required for CQC as indicated elsewhere in this contract, generate all reports in this System. Attached Sample forms are for reference only.

a. The three-page CONTRACTORS QUALITY CONTROL REPORT (QCR) DAILY LOG OF CONSTRUCTION at the end of the section will be used for the basic QCR Report per the RMS 3 Contractor Mode - USER MANUAL, QC Daily Report.

b. In addition, outstanding deficiencies must be listed on the form "Deficiency Items Issued - by QC," per the RMS 3 Contractor Mode - USER MANUAL.

3.11 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. Take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, will be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer can issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders will be made the subject of claim for extension of time or for excess costs or damages by the Contractor. Deficiencies cited and verbal instructions given to the Contractor by the Government Representative must be entered into that day's CQC Report.

(FORMS FOLLOW)

-- End of Section --

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CONTRACTORS QUALITY CONTROL REPORT (QCR) DAILY LOG OF CONSTRUCTION	REPORT NUMBER Page 1 of 3
	DATE Date - Day of Week
PROJECT	CONTRACT NUMBER
CONTRACTOR	WEATHER Weather Caused No Delay Temperature Min °F Max °F No Precipitation No Wind

QC NARRATIVES

Activities in Progress:

Addtional Activities and Remarks (i.e., Submittal Actions, Misc Remarks)

Delivery of Equipment and Materials

Description & Location of Work (Also Indicate days of no work and reasons)

Follow-Up Phase Inspection Performed, Results & Corrective Action Taken

List Contractors and Subs Working This Day & Area of Responsiblity

CONTRACTORS QUALITY CONTROL REPORT (QCR)
DAILY LOG OF CONSTRUCTION

REPORT NUMBER

DATE

PROJECT

CONTRACT NUMBER

PREP/INITIAL DATES (Preparatory and initial dates held and advance notice)

Preparatory Inspections held today

No preparatory inspections held today

Initial Inspections held today

No initial inspections held today

ACTIVITY START/FINISH

Activity No Description

No activities were started or finished today

QC REQUIREMENTS

Requirement No Type Description Results

No QC requirements were completed today

ISSUED QA/QC DEFICIENCY (Describe QA and QC Deficiency items issued)

Item No Location Description

No QC Deficiency items were issued today

CORRECTED QA/QC DEFICIENCY (Report QC and QA Deficiency items corrected)

Item No Location Description

No QC Deficiency items were corrected today

CONTRACTORS ON SITE (Report first and/or last day contractors were on site)

Name First Day Last Day

No Contractors had their first or last day on the site

LABOR HOURS

Employer	Labor Classification	Number of Employees	Hours Worked
	FLOOR-COVERING-TILE LAYER		
	LABORERS		
	CONCRETING SUPERVISOR		

CONTRACTORS QUALITY CONTROL REPORT (QCR)
DAILY LOG OF CONSTRUCTION

REPORT NUMBER

DATE

PROJECT

CONTRACT NUMBER

.

LABORERS
PAINTERS
CARPENTER
CONSTRUCTION INSPECTOR
LABORERS
IRONWORKER
IRON & STEEL WORK SUPERVSR
PIPE FITTER
DUCT INSTALLER
SPRINKLER FITTER
ELECTRICIAN
CARPENTER
CARPENTER FOREMAN

Total hrs worked to date:	XXXXXX	Hrs worked MTD:	XXXXXXX	Total:	XXXX	XXXX

EQUIPMENT HOURS

Serial Number	Description	Idle Hours	Operating Hours

No equipment hours reported today

Total operating hrs to date:	XXXX	Idle hrs MTD:	0.0	Opr hrs MTD:	XX	Total:

MISHAP REPORTING (Describe mishaps)

No mishaps reported today

CONTRACTOR CERTIFICATION **On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.**

QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE

US Army Corps of Engineers

Deficiency Items Issued - by QC

Date of Report

Project Name

RMS Contract ID

Resident Office Name

Item Number	Description	Location	Status	Date Issued	Age (days)

SECTION 01 45 00.15 10

RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE (RMS CM)
11/16

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this section to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety and Health Requirements Manual

1.2 MEASUREMENT AND PAYMENT

The work of this section is not measured for payment. The Contractor is responsible for the work of this section, without any direct compensation other than the payment received for contract items.

1.3 CONTRACT ADMINISTRATION

The Government will use the Resident Management System (RMS 3.0) to assist in its monitoring and administration of this contract. The Government accesses the system using the Government Mode of RMS (RMS GM) and the Contractor accesses the system using the Contractor Mode (RMS CM). The term RMS will be used in the remainder of this section for both RMS GM and RMS CM. All refer to version 3.0. See attached RMS 3.0 Contractor Access Request form. The joint Government-Contractor use of RMS facilitates electronic exchange of information and overall management of the contract. The Contractor accesses RMS to record, maintain, input, track, and electronically share information with the Government throughout the contract period in the following areas:

Administration
Finances
Quality Control
Submittal Monitoring
Scheduling
Closeout
Import/Export of Data

1.3.1 Correspondence and Electronic Communications

For ease and speed of communications, exchange correspondence and other documents in electronic format to the maximum extent feasible. Some correspondence, including pay requests and payrolls, are also to be provided in paper format with original signatures. Paper documents will govern, in the event of discrepancy with the electronic version.

1.3.2 Other Factors

Other portions of this document have a direct relationship to the

reporting accomplished through RMS. Particular attention is directed to FAR 52.236-15 Schedules for Construction Contracts; FAR 52.232-27 Prompt Payment for Construction Contracts; FAR 52.232-5 Payments Under Fixed-Priced Construction Contracts; Section 01 32 01.00 10 PROJECT SCHEDULE; Section 01 33 00 SUBMITTAL PROCEDURES; Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS; and Section 01 45 00.00 10 QUALITY CONTROL.

1.4 RMS SOFTWARE

RMS is a web based application. Download, install and be able to utilize the latest version of RMS within 7 calendar days of receipt of the Notice to Proceed. RMS software, user manuals, access and installation instructions, program updates and training information are available from the RMS website (https://rms.usace.army.mil). The Government and the Contractor will have different access authorities to the same contract database through RMS. The common database will be updated automatically each time a user finalizes an entry or change.

1.5 CONTRACT DATABASE - GOVERNMENT

The Government will enter the basic contract award data in RMS prior to granting the Contractor access. The Government entries into RMS will generally be related to submittal reviews, correspondence status, and Quality Assurance(QA)comments, as well as other miscellaneous administrative information.

1.6 CONTRACT DATABASE - CONTRACTOR

Contractor entries into RMS establish, maintain, and update data throughout the duration of the contract. Contractor entries generally include prime and subcontractor information, daily reports, submittals, RFI's, schedule updates and payment requests. RMS includes the ability to import attachments and export reports in many of the modules, including submittals. The Contractor responsibilities for entries in RMS typically include the following items:

1.6.1 Administration

1.6.1.1 Contractor Information

Enter all current Contractor administrative data and information into RMS within 7 calendar days of receiving access to the contract in RMS. This includes, but is not limited to, Contractor's name, address, telephone numbers, management staff, and other required items.

1.6.1.2 Subcontractor Information

Enter all missing subcontractor administrative data and information into RMS CM within 7 calendar days of receiving access to the contract in RMS or within 7 calendar days of the signing of the subcontractor agreement for agreements signed at a later date. This includes name, trade, address, phone numbers, and other required information for all subcontractors. A subcontractor is listed separately for each trade to be performed.

1.6.1.3 Correspondence

Identify all Contractor correspondence to the Government with a serial

number. Prefix correspondence initiated by the Contractor's site office with "S". Prefix letters initiated by the Contractor's home (main) office with "H". Letters are numbered starting from 0001. (e.g., H-0001 or S-0001). The Government's letters to the Contractor will be prefixed with "C" or "RFP".

1.6.1.4 Equipment

Enter and maintain a current list of equipment planned for use or being used on the jobsite, including the most recent and planned equipment inspection dates.

1.6.1.5 Reports

Track the status of the project utilizing the reports available in RMS. The value of these reports is reflective of the quality of the data input. These reports include the Progress Payment Request worksheet, Quality Control (QC) comments, Submittal Register Status, and Three-Phase Control worksheets.

1.6.1.6 Request For Information (RFI)

Create and track all Requests For Information (RFI) in the RMS Administration Module for Government review and response.

1.6.2 Finances

1.6.2.1 Pay Activity Data

Develop and enter a list of pay activities in conjunction with the project schedule. The sum of pay activities equals the total contract amount, including modifications. Each pay activity must be assigned to a Contract Line Item Number (CLIN). The sum of the activities assigned to a CLIN equals the amount of each CLIN.

1.6.2.2 Payment Requests

Prepare all progress payment requests using RMS. Update the work completed under the contract at least monthly, measured as percent or as specific quantities. After the update, generate a payment request and prompt payment certification using RMS. Submit the signed prompt payment certification and payment request as well as supporting data either electronically or by hard copy. Unless waived by the Contracting Officer, a signed paper copy of the approved payment certification and request is also required and will govern in the event of discrepancy with the electronic version.

1.6.3 Quality Control (QC)

Enter and track implementation of the 3-phase QC Control System, QC testing, transferred and installed property and warranties in RMS. Prepare daily reports, identify and track deficiencies, document progress of work, and support other Contractor QC requirements in RMS. Maintain all data on a daily basis. Insure that RMS reflects all quality control methods, tests and actions contained within the Contractor Quality Control (CQC) Plan and Government review comments of same within 7 calendar days of Government acceptance of the CQC Plan.

1.6.3.1 Quality Control (QC) Reports

The Contractor's Quality Control (QC) Daily Report in RMS is the official report. The Contractor can use other supplemental formats to record QC data, but information from any supplemental formats are to be consolidated and entered into the RMS QC Daily Report. Any supplemental information may be entered into RMS as an attachment to the report. QC Daily Reports must be finalized and signed in RMS within 24 hours after the date covered by the report. Provide the Government a printed signed copy of the QC Daily Report, unless waived by the Contracting Officer.

1.6.3.2 Deficiency Tracking.

Use the QC Daily Report Module to enter and track deficiencies. Deficiencies identified and entered into RMS by the Contractor or the Government will be sequentially numbered with a QC or QA prefix for tracking purposes. Enter each deficiency into RMS the same day that the deficiency is identified. Monitor, track and resolve all QC and QA entered deficiencies. A deficiency is not considered to be corrected until the Government indicates concurrence in RMS.

1.6.3.3 Three-Phase Control Meetings

Maintain scheduled and actual dates and times of preparatory and initial control meetings in RMS. Worksheets for the three-phase control meetings are generated within RMS.

1.6.3.4 Labor and Equipment Hours

Enter labor and equipment exposure hours on a daily basis. Roll up the labor and equipment exposure data into a monthly exposure report.

1.6.3.5 Accident/Safety Reporting

Both the Contractor and the Government enter safety related comments in RMS as a deficiency. The Contractor must monitor, track and show resolution for safety issues in the QC Daily Report area of the RMS QC Module. In addition, follow all reporting requirements for accidents and incidents as required in EM 385-1-1, Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS and as required by any other applicable Federal, State or local agencies.

1.6.3.6 Definable Features of Work

Enter each feature of work, as defined in the approved CQC Plan, into the RMS QC Module. A feature of work may be associated with a single or multiple pay activities, however a pay activity is only to be linked to a single feature of work.

1.6.3.7 Activity Hazard Analysis

Import activity hazard analysis electronic document files into the RMS QC Module utilizing the document package manager.

1.6.4 Submittal Management

Enter all current submittal register data and information into RMS within 7 calendar days of receiving access to the contract in RMS. The information shown on the submittal register following the specification

Section 01 33 00 SUBMITTAL PROCEDURES will already be entered into the RMS database when access is granted. Group electronic submittal documents into transmittal packages to send to the Government, except very large electronic files, samples, spare parts, mock ups, color boards, or where hard copies are specifically required. Track transmittals and update the submittal register in RMS on a daily basis throughout the duration of the contract. Submit hard copies of all submittals unless waived by the Contracting Officer.

1.6.5 Schedule

Enter and update the contract project schedule in RMS by either manually entering all schedule data or by importing the Standard Data Exchange Format (SDEF) file, based on the requirements in Section 01 32 01.00 10 PROJECT SCHEDULE.

1.6.6 Closeout

Closeout documents, processes and forms are managed and tracked in RMS by both the Contractor and the Government. Ensure that all closeout documents are entered, completed and documented within RMS.

1.7 IMPLEMENTATION

Use of RMS as described in the preceding paragraphs is mandatory. Ensure that sufficient resources are available to maintain contract data within the RMS system. RMS is an integral part of the Contractor's required management of quality control.

1.8 NOTIFICATION OF NONCOMPLIANCE

Take corrective action within 7 calendar days after receipt of notice of RMS non-compliance by the Contracting Officer.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

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RMS 3.0 Contractor Request Initial Access Form

Contract Name: _____

Contract Number:_____

Contractor Name:_____

Contractor Address (City, State):_____

DUNS number: _____

CAGE code: _____

Payee Office:_____

_____

_____

_____

_____

Contractor's Assigned Administrator Name: _____

Contractor's Assigned Administrator Email:_____

Contractor's Assigned Administrator Phone number: _____

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SECTION 01 45 35

SPECIAL INSPECTIONS
11/20

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN WELDING SOCIETY (AWS)

AWS D1.1/D1.1M	(2020) Structural Welding Code - Steel

ASTM INTERNATIONAL (ASTM)

ASTM C31/C31M	(2019a) Standard Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C39/C39M	(2020) Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
ASTM C143/C143M	(2020) Standard Test Method for Slump of Hydraulic-Cement Concrete
ASTM C173/C173M	(2016) Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C231/C231M	(2017a) Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C1064/C1064M	(2017) Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM E329	(2020) Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
ASTM E894	(2018) Standard Test Method for Anchorage of Permanent Metal Railing Systems and Rails for Buildings
ASTM E935	(2013) Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC	(2018) International Building Code

1.2 GENERAL REQUIREMENTS

This section includes Code Mandated Special Inspection requirements and other 3rd Party Inspections and Related Testing Requirements. Section also includes administrative and procedural requirements for Testing and inspecting services.

Perform Special Inspections in accordance with the Statement of Special Inspections, Schedule of Special Inspections and Chapter 17 of ICC IBC. The Statement of Special Inspections and Schedule of Special Inspections are included as an attachment to this specification. Special Inspections are to be performed by an independent third party and are intended to ensure that the work of the Prime Contractor is in accordance with the Contract Documents and applicable building codes. Special inspections do not take the place of the three phases of control inspections performed by the Contractor's QC Manager or any testing and inspections required by other sections of the specifications.

Structural observations will be performed separately by the Government. The Contractor must provide notification to the Contracting Officer 14 days prior to special inspections.

Contractor must employ and pay for the services of an Independent Testing Agency and Geotechnical Engineer to perform all other specified services and testing not included herein, and the retesting of “failed” areas.

1.3 DEFINITIONS

a. Approved Fabricator: An established and qualified person, firm or corporation approved by the building official pursuant to Chapter 17 of IBC 2018. One who has received approval to perform work without a code-required special inspection for work performed in the shop.

b. Approved Testing and Inspection Agency/Special Inspection Administrator: Contractor hired, objective, competent and independent from the Contractor responsible for the work being inspected. An established and recognized agency capable of and regularly engaged in conducting tests and furnishing inspection services, when such agency has been approved by the building code official. The approved agency must perform all duties for testing and inspection requirements noted herein.

c. Geotechnical Engineer: A Professional Engineer, with expertise in soil mechanics and foundations, approved by the building code official to perform special inspections. The geotechnical engineer is considered a specialized individual within the Testing and Inspection Agency and all requirements for the Testing and Inspection Agency must apply to that individual. It is recommended that the Geotechnical Engineer for this specification be the same Geotechnical Engineer of Record who generated the geotechnical report for the project.

d. Special Inspection: Inspection as herein required of the materials, installation, fabrication, erection or placement of components and connections requiring special expertise to ensure compliance with approved construction documents. Refer to Schedule of Special Inspection Services section of this specification for requirements.

1.3.1 Continuous Special Inspections

Continuous Special Inspections is the full-time monitoring of specific tasks by a special inspector. These inspections must be carried out continuously over the duration of the particular tasks in the presence of the approved special inspector.

Special Inspection, Periodic: The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work. Refer to material sections for additional criteria.

1.3.2 Perform

Perform these Special Inspections tasks for each welded joint or member.

1.3.3 Observe

Observe these Special Inspections items on a periodic daily basis. Operations need not be delayed pending these inspections.

1.3.4 Special Inspector (SI)

A qualified person employed by the Testing and Inspection Agency retained by the Contractor and approved by the Contracting Officer as having the competence necessary to inspect a particular type of construction requiring Special Inspections. The SI must be an independent third party hired directly by the Prime Contractor.

1.3.5 Associate Special Inspector (ASI)

A qualified person who assists the SI in performing Special Inspections but must perform inspection under the direct supervision of the SI and cannot perform inspections without the SI on site.

1.3.6 Third Party

A Special inspector must not be an employee of the Contractor or of any Sub-Contractor performing the work to be inspected.

1.3.7 Contracting Officer

The Government official having overall authority for administrative contracting actions. Certain contracting actions may be delegated to the Contracting Officer's Representative (COR).

1.3.8 Contractor's Quality Control (QC) Manager

An individual retained by the Prime Contractor and qualified in accordance with the Section 01 45 00.00 10 QUALITY CONTROL having the overall responsibility for the Contractor's QC organization.

1.3.9 Structural Engineer of Record (SER)

A registered design professional contracted by the Government as an A/E responsible for the overall design and review of submittal documents prepared by others. The SER is registered or licensed to practice their respective design profession as defined by the statutory requirements of

the professional registration laws in the state in which the design professional works. The SER is also referred to as the Engineer of Record (EOR) in design code documents.

1.3.10 Statement of Special Inspections (SSI)

A document developed by the SER identifying the material, systems, components and work required to have Special Inspections. This statement is included at the end of this specification.

1.3.11 Schedule of Special Inspections (SSI)

A schedule which lists each of the required Special Inspections, the extent to which each Special Inspection is to be performed, and the required frequency for each in accordance with ICC IBC Chapter 17. This schedule is included at the end of this specification.

1.3.12 Definable Feature of Work (DFOW)

An inspection group that is separate and distinct from other inspection groups, having inspection requirements or inspectors that are unique.

1.4 TESTING AND INSPECTION AGENCY QUALIFICATIONS

a. The Testing and Inspection Agency must, in addition to meeting requirements noted in the ‘Definitions’ section, meet one of the requirements below:

    1. Maintains current accreditation as a special inspection agency by the International Accreditation Service (IAS) within the scope of accreditation issued by IAS or other approval entity as determined by the building code official.
    2. Meet basic requirements of ASTM E329, “Standard Specification for Agencies engaged in Construction Inspection and/or Testing.
    3. Accredited in accordance with ISO/IEC 17020 (International Organization for Standardization/International Electro-technical Commission - The General Criteria for the Operation of Various Types of Bodies Performing Inspection).

b. Authorized to operate in the State of New York.

c. Submit copy of report of inspection of facilities made by Materials Reference Laboratory of National Institute of Standards and Technology during the most recent tour of inspection, with memorandum of remedies of any deficiencies reported by the inspection.

d. Testing Equipment: Calibrated at reasonable intervals by devices of accuracy traceable to either:

    1. National Institute of Standards and Technology (NIST)
    2. Accepted values of natural physical constants.

e. Special inspections must meet the minimum qualifications listed in the attached Schedule of Special Inspections or as required by the building code official.

1.5 SUBMITTALS

Government approval is required for submittals with a "G" designation;

submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-07 Certificates

AISC Certified Steel Fabricator

AC472 Accreditation

Certificate of Compliance

Testing and Inspection Agency Qualifications; G, AE
Special Inspector Qualifications; G, AE

1.6 SPECIAL INSPECTOR QUALIFICATIONS

Submit qualifications for each special inspector; G, AE.

1.6.1 Steel Construction and High Strength Bolting

1.6.1.1 Special Inspector

a. ICC Structural Steel and Bolting Special Inspector certificate with one year of related experience, or

b. Registered Professional Engineer with three years of related experience

1.6.1.2 Associate Special Inspector

Engineer-In-Training with one year of related experience.

1.6.2 Welding Structural Steel

1.6.2.1 Special Inspector

a. AWS Certified Welding Inspector

1.6.2.2 Associate Special Inspector

AWS Certified Associate Welding Inspector

1.6.3 Nondestructive Testing of Welds

1.6.3.1 Special Inspector

NDT Level III Certificate

1.6.3.2 Associate Special Inspector

NDT Level II Certificate plus one year of related experience

1.6.4 Cold Formed Steel Framing

1.6.4.1 Special Inspector

a. ICC Structural Steel and Bolting Special Inspector certificate with one year of related experience, or

b. ICC Commercial Building Inspector with one year of experience, or

c. ICC Residential Building Inspector with one year of experience, or

d. Registered Professional Engineer with three years related experience

1.6.4.2 Associate Special Inspector

Engineer-In-Training with one year of related experience.

1.6.5 Concrete Construction

1.6.5.1 Special Inspector

a. ICC Reinforced Concrete Special Inspector Certificate with one year of related experience, or

b. ACI Concrete Construction Special Inspector, or

c. Registered Professional Engineer with three years of related experience

1.6.5.2 Associate Special Inspector

a. ACI Concrete Construction Special Inspector in Training, or

b. Engineer-In-Training with one year of related experience

1.6.6 Masonry Construction

1.6.6.1 Special Inspector

a. ICC Structural Masonry Special Inspector Certificate with one year of related experience, or

b. Registered Professional Engineer with three years of related experience

1.6.6.2 Associate Special Inspector

Engineer-In-Training with one year of related experience.

1.6.7 Verification of Site Soil Condition, Fill Placement and Load-Bearing Requirements

1.6.7.1 Special Inspector

a. ICC Soils Special Inspector Certificate with one year of related experience, or

b. NICET Soils Technician Level II Certificate in Construction Material Testing, or

c. Geologist-In-Training with three years of related experience, or

d. Registered Professional Engineer with three years of related experience

1.6.7.2 Associate Special Inspector

a. NICET Soils Technician Level I Certificate in Construction Material Testing with one year of related experience, or

b. Engineer-In-Training with one year of related experience

1.6.8 Sprayed Fire Resistant Material

1.6.8.1 Special Inspector

a. ICC Spray-applied Fireproofing Special Inspector Certificate, or

b. ICC Fire Inspector I Certificate with one year of related experience, or

c. Registered Professional Engineer or Architect with related experience

1.6.8.2 Associate Special Inspector

Engineer-In-Training with one year of related experience

1.6.9 Mastic and Intumescent Fire Resistant Coatings

1.6.9.1 Special Inspector

a. ICC Spray-applied Fireproofing Special Inspector Certificate, or

b. ICC Fire Inspector I Certificate with one year of related experience, or

c. Registered Professional Engineer or Architect with related experience

1.6.9.2 Associate Special Inspector

Engineer-In-Training with one year of related experience.

1.6.10 Fire-Resistant Penetrations and Joints

1.6.10.1 Special Inspector

a. Passed the UL Firestop Exam with one year of related experience, or

b. Passed the FM Firestop Exam with one year of related experience, or

c. Registered Professional Engineer with related experience

1.6.10.2 Associate Special Inspector

Engineer-In-Training with one year of related experience.

1.6.11 Smoke Control

1.6.11.1 Special Inspector

a. AABC Technician Certification with one year of related experience, or

b. Registered Professional Engineer with related experience

1.6.11.2 Associate Special Inspector

Engineer-In-Training with one year of related experience.

PART 2 PRODUCTS

2.1 FABRICATOR SPECIAL INSPECTIONS

Special Inspections of fabricator's work performed in the fabricator's shop is required to be inspected in accordance with the Statement of Special Inspections and the Schedule of Special Inspections unless the fabricator is certified by the approved agency to perform such work without Special Inspections. Submit the following certification to the Contracting Officer for information to allow work performed in the fabricator's shop to not be subjected to Special Inspections.

AISC Certified Steel Fabricator.

International Accreditation Service, AC472 Accreditation

At the completion of fabrication, submit a certificate of compliance, to be included with the comprehensive final report of Special Inspections, stating that the materials supplied and work performed by the fabricator are in accordance with the construction documents.

PART 3 EXECUTION

3.1 RESPONSIBILITIES

3.1.1 Teting and Agency Responsibilitiess

a. Testing and inspections must be performed under the direction of Licensed Professional Engineer registered in the State of New York who must be responsible for administering all testing and inspections and must certify any local agency requirements.
b. Cooperate with Architect and Contractor; provide qualified personnel after due notice.
c. Provide written documentation to the building code official demonstrating competence and relevant experience or training when required by local jurisdiction.
d. Perform all tests and inspections required by the Statement of Special Inspections.
e. Perform specified inspections, sampling and testing of materials and methods of construction:

    1. Comply with specified standards.
    2. Ascertain compliance of materials with requirements of Contract Documents.

g. If during the excavation for foundations, materials are encountered which vary from those indicated by the test boring data or the Contract Documents or if there are any unusual conditions observed when concrete for foundations is placed, the Geotechnical Engineer must IMMEDIATELY advise the Government to stop all related work until the Architect has been notified of such conditions.
h. Should any material be delivered to the site which does not conform to

the requirements of the Contract Documents, the Inspection Agency or Geotechnical Engineer must have the authority to reject such material and must IMMEDIATELY notify the Government, Contractor and Architect of such rejection.

i. Should Laboratory tests of material performed at specified intervals of time indicate that strengths do not meet Specification requirements, the Inspection Agency or Geotechnical Engineer must IMMEDIATELY notify the Government, Contractor and Architect. The Architect must determine whether remedial action is necessary.

j. Establish and maintain appropriate communications with the Government, Architect/Engineer, Contractor, and the building code official regarding the Inspection process. Promptly submit written report of each test and inspection; electronic copy each to Architect, Government, and Contractor. Provide copy to building code official when required by local jurisdiction. Each report must include:

1. Date issued
2. Project title and number
3. Testing laboratory name, address and telephone number
4. Name and signature of laboratory inspector
5. Date and time of sampling or inspection
6. Record of temperature and weather conditions
7. Date of test
8. Identification of product and Specification section
9. Type of inspection or test
10. Results of tests and compliance with Contract Documents
11. Interpretation of test results

k. Prepare a summary report for each category of inspection certifying that the work has been inspected and meets the Contract Documents. Specifically list all discrepancies found which have not yet been repaired or resolved and bring to the attention of the building code official and registered design professional in responsible charge prior to completion of that phase of work.

l. Monitor the work of the Contractor to assess actions required to correct deficiencies reported in Special Inspection reports.

m. Perform additional tests as required by Architect or the Government.

m. Prepare a Final Report of Special Inspections and submit to the building code official, upon completion of construction, stating that the Special Inspections were completed, and that all discrepancies have been corrected.

3.2 LIMITATIONS OF AUTHORITY OF TESTING AND INSPECTION AGENCY

a. The Testing and Inspection Agency is not authorized to:

1. Release, revoke, alter or enlarge on requirements of Contract Documents.
2. Approve or accept any portion of the Work.
3. Perform any duties of the Contractor.

1.6 3.3 CONTRACTOR'S RESPONSIBILITIES

a. Cooperate with Testing and Inspection Agency, provide access to Work.

b. Secure and deliver to the laboratory adequate quantities of representational samples of materials proposed to be used and which are required to be tested.

c. Provide to the laboratory the preliminary and final design mixes proposed to be used for concrete and other materials mixes which are required to be controlled by the testing laboratory.

d. Furnish copies of Products test reports as required.

e. Furnish incidental labor and facilities:

1. To provide access to Work to be tested
2. To obtain and handle samples at the Project site or at the source of the product to be tested
3. To facilitate inspections and tests
4. For storage and curing of test samples

f. Notify Testing and Inspection Agency and Architect sufficiently in advance of operations to allow for assignment of personnel and scheduling of tests. Notification must be a minimum of three working days (72 hours) for required shop testing and two working days (48 hours) for required field testing. When tests or inspections cannot be performed after such notice, reimburse Government for testing personnel and travel expenses incurred due to Contractor's negligence.

h. Make arrangements with laboratory and pay for additional samples and tests required:

1. When initial test indicates work does not comply with Contract Documents.
2. For the Contractor's convenience.
3. For inspection and testing services required, but not included herein.

3.4 SPECIFIC TESTS, INSPECTIONS BY TESTING AND INSPECTION AGENCY

3.4.1 Testing and Inspection of Poured in Place Concrete Work (Division 03)

a. Testing Frequency: Obtain at least one composite sample for each 100 cu. yd. or fraction thereof of each concrete mixture placed each day. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing must be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
b. Slump: ASTM C143/C143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
c. Air Content: ASTM C231/C231M, pressure method, for normal-weight concrete; ASTM C173/C173M, volumetric method, for structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
d. Concrete Temperature: ASTM C1064/C1064M; one test hourly when air temperature is 40 deg F. and below and when 80 deg F. and above, and one test for each composite sample.
e. Unit Weight: ASTM C567, fresh unit weight of structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
f. Compression Test Specimens: ASTM C31/C31M.
g. Cast five sets of two standard cylinders for each composite sample.

1. Laboratory cure three sets of two standard cylinder specimens.

2. Field cure two sets of two standard cylinder specimens.

   a) Remove test specimens from molds at end of 24 hours and store in structure as near point of placement as possible; maintain conditions similar to those portions of structure that they represent.
   b) Do not remove from structure for transmittal to laboratory prior to expiration of three-fourths of proposed period before removal of forms.

h. Compressive-Strength Tests: ASTM C39/C39M

   1. Test laboratory-cured specimens as follows:

      a) One set of two specimens at 7 days.
      b) One set of two specimens at 28 days.
      c) Hold one set of two specimens in reserve. Test when directed by the Architect.

   2. Test field-cured specimens as follows:

      a) One set of two specimens at an age determined by the Contractor for form
      stripping, but not later than 7 days.
      b) One set of two specimens at 28 days.

   3. A compressive-strength test must be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.

i. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor must evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
j. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi (3.4 MPa).
k. Tests of Hardened Concrete in, or Removed From, Structures

   1. Where there is question as to quality of concrete in structure, the Architect may require tests per ASTM C42, or order load tests for that portion of structure where questionable concrete has been placed.
   2. Where required, load test must be made at Contractor's expense, per Section 202 of ACI 318.
   3. In event that load tests or test per ASTM C42 indicate that concrete placed does not conform to Contract Documents take measures as prescribed by the Architect to correct deficiency at no additional expense to the Government.

l. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
m. Additional Tests: Testing and inspecting agency must make additional tests of concrete as directed by Architect when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met; and when Work is repaired or replaced.

Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42/C42M or by other methods as directed by Architect. Additional testing and inspecting must be performed at the Contractor's expense.

3.4.2 Testing and Inspection of Masonry (Division 04)

a. Perform testing and inspection in accordance with Level A.
b. Compressive strength of masonry (f'm) must be determined by the Unit Strength Method.
c. Review mix designs for masonry mortars, grouts and concrete.
d. Perform visual inspection in the field of the masonry units, reinforcing, proportioning mixing and consistency of mortars and grout, and general compliance with the Contract Documents.

3.4.3 Testing and Inspection of Structural Steel (Division 05)

a. Special Inspections of shop fabricated elements required by IBC Section 1705 must not be required where the fabricator is approved in accordance with IBC 1704.2.5.2.
b. In addition to visual inspection, shop and field-welded shear connectors will be tested and inspected according to requirements in AWS D1.1 for stud welding and as follows:

    1. Bend tests will be performed if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.

c. Tests will be conducted on additional shear connectors if weld fracture occurs on shear connectors already tested, according to requirements in AWS D1.1/D1.1M.
d. Frequency of Testing of Welds:

    1. Test all full penetration welds using X-ray or ultrasonic methods. Test 50 percent of all partial penetration welds by a nondestructive method at the discretion of the Inspection Agency. Test 25percent of all fillet welds by a nondestructive method at the discretion of the Inspection Agency. Any improper welding must be corrected by the Contractor and tested by the Inspection Agency at no expense to the Government. Any improper welding found must be corrected by the Contractor and an additional 15 percent of the welds must be tested by the Government's Inspection Agency at no expense to the Government.
    2. If a disproportionate number of improper welds (5 percent) occurs in the additional 15 percent tested, all welding operations must be halted temporarily and not resumed until welding procedures are reviewed and corrected by the Contractor and accepted by the Architect and the Government's Inspection Agency. All corrective work and testing must be at the Contractor's expense.

e. Frequency of Inspection of Bolted Connections:

    1. For high strength bolts in bearing type connections installed with a prescribed pretension, inspection must include a visual examination of all bolts, plus a check by use of a calibrated torque wrench on at least 15 percent of bolts (minimum 2 bolts) in each particular connection. If any bolt tested does not meet the Specification requirements, all bolts in the connection must be retightened and retested.

3.4.4 Testing and Inspection of Metal Decking and Forms (Division 05)

a. Perform all field inspection in connection with the installation of the metal decking and forms in accordance with Schedule of Special Inspection Services.

3.4.5 Testing and Inspection of Cold-Formed-Metal-Framing (Division 05)

a. Perform all field inspection in connection with the installation of the metal decking and forms in accordance with Schedule of Special Inspection Services.

3.4.6 Testing and Inspection of Metal Fabrications (Division 05)

a. Perform all inspections in connection with the fabrication and installation of metal fabrications in accordance with Schedule of Special Inspection Services.
b. Frequency of Test of Welds:

    1. Full Penetration Welds: Test all full penetration welds using X-ray or ultrasonic methods.
    2. Partial Penetration Welds: Test 50 percent of all partial penetration welds by a nondestructive method at the discretion of the Inspection Agency.
    3. Primary Fillet Welds: Test 25 percent of all fillet welds used for connections of channels, angles, or load carrying members by a nondestructive method at the discretion of the Inspection Agency.
    4. Secondary Fillet Welds: Test 15 percent of all fillet welds used for connections of handrails by a nondestructive method at the discretion of the Inspection Agency. Test 10 percent of all fillet welds used for connections of grating or secondary components by a nondestructive method at the discretion of the Inspection Agency.
    5. Any improper welding found must be corrected by the Contractor and an additional 15 percent of the welds must be tested by the Government's Inspection Agency at no expense to the Government. If a disproportionate number of improper welds (5 percent) occurs in the additional 15 percent tested, all welding operations must be halted temporarily and not resumed until welding procedures are reviewed and corrected by the Contractor and accepted by the Architect and the Government's Inspection Agency. All corrective work and testing must be at the Contractor's expense.

3.4.7 esting and Inspection of Metal Stairs and Railings (Division 05) and Decorative Metal Railings (Division 05)

a. Perform all inspections in connection with the fabrication and installation of metal stairs and railings and decorative metal railings in accordance with Schedule of Special Inspection Services.
b. Frequency of Test of Welds:

    1. Full Penetration Welds: Test all full penetration welds using X-ray or ultrasonic methods.
    2. Partial Penetration Welds: Test 50 percent of all partial penetration welds by a nondestructive method at the discretion of the Inspection Agency.
    3. Primary Fillet Welds: Test 25 percent of all fillet welds used for connections of channels, angles, or load carrying members by a nondestructive method at the discretion of the Inspection Agency.

4. Secondary Fillet Welds: Test 15 percent of all fillet welds used for connections of handrails by a nondestructive method at the discretion of the Inspection Agency. Test 10 percent of all fillet welds used for connections of grating or secondary components by a nondestructive method at the discretion of the Inspection Agency.
5. Any improper welding found must be corrected by the Contractor and an additional 15 percent of the welds must be tested by the Government's Inspection Agency at no expense to the Government. If a disproportionate number of improper welds (5 percent) occurs in the additional 15 percent tested, all welding operations must be halted temporarily and not resumed until welding procedures are reviewed and corrected by the Contractor and accepted by the Architect and the Government's Inspection Agency. All corrective work and testing must be at the Contractor's expense.

c. Frequency of Testing: Testing agency will randomly select completed railing assemblies for testing that are representative of different railing designs and conditions in the completed work. Railings will be tested according to ASTM E894 and ASTM E935 for compliance with performance requirements.
4d. Contractor must correct unacceptable work and pay for further testing (by Government's Testing Agency) required to prove acceptability of installation.

3.4.8 Testing and Inspection of Firestopping (Division 07)

a. Inspect and test in accordance with ASTM E2174.

1. Inspector must be on site during installation and randomly witness a minimum of 10 percent of each type of firestop system being installed.

3.4.9 Inspection and monitoring storm water runoff from site (Division 31)

a. Inspect erosion and sediment control installation measures.
b. Monitor throughout the construction period to verify the appropriate effectiveness of the erosion and sediment control measures.

3.4.10 Testing and Inspection of Earthwork (Division 31)

a. Test Frequency:

1. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.
2. Paved and Building Slab Areas: At subgrade and at each compacted fill and backfill layer, at least 1 test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than 3 tests.
3. Foundation Wall Backfill: At each compacted backfill layer, at least 1 test for each 100 feet or less of wall length, but no fewer than 2 tests.
4. Trench Backfill: At each compacted initial and final backfill layer, at least 1 test for each 150 feet or less of trench length, but no fewer than 2 tests.

3.4.11 Inspection and Testing for Asphaltic Concrete Paving (Division 32)

a. Stone Base Testing and Inspection

1. Analyses of random loose samples
2. Compaction testing of material in place
3. Monitoring of material depth

b. Inspection and Testing of Bituminous Paving

1. Analyses of random loose samples.
2. Extraction and analysis of cores removed in the field.
3. Monitoring of material depth.

3.5 DEFECTIVE WORK

Check work as it progresses, but failure to detect any defective work or materials must in no way prevent later rejection if defective work or materials are discovered, nor obligate the Contracting Officer to accept such work.

-- End of Section --

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Project: Lincoln Hall Renovation
Location: West Point, NY
Project #: W912DS-19-C-0031-L
Date: 7/22/2022

STATEMENT OF SPECIAL INSPECTIONS

Project Seismic Design Category: B
Project Risk Category: II
Project Design Wind Speed (mph): 113
Number of Stories: 7
Structure Height Above Grade (ft): 75
Hazardous Occupancy or attached to such? No Group H Occupancies

Special Inspector of Record (SIOR)

A Special Inspector of Record (SIOR) **IS NOT** required (per UFGS 01 45 35, Section 1.3.8)

Lateral Force Resisting System (LFRS)

2018 IBC 1704.3.2 and 1704.3.3

Following is a listing of critical main wind/seismic force resisting systems for this structure. Carefully inspect these elements as part of the roles and responsiblities of the Special Inspector (reference the Schedule of Special Inspections for inspection checklists).

Vertical LFRS Elements	Notes
Ordinary Concentric Braced Frames	N/A
Special Concentric Braced Frames	N/A
Ordinary Steel Moment resisting Frames (SMRF)	N/A
Ordinary Reinforced Concrete Shearwalls	N/A
Concrete Grade Beams Resisting Lateral Loads	N/A
Ordinary Reinforced Masonry Shear Walls	N/A
OSB Sheathed Shear Walls (nailing, sill bolting, Etc)	N/A
Shear Wall Hold Downs	N/A
Horizontal LFRS Elements	**Notes**
Continuous Roof Ties	N/A
Collector Elements	N/A
Concrete over metal deck	N/A
Metal Roof Deck & Related Fastening System	N/A
Out of Plane Wall Connections	N/A
Diaphragm Cross Rod Bracing	N/A
Cast in Place Concrete Floor and Roof Diaphragms	N/A
Special Force Transfer Connection	N/A

Project: Lincoln Hall Renovation
Location: West Point, NY
Project #: W912DS-19-C-0031-L
Date: 7/22/2022

Designated Seismic Systems (DSS)

(2018 IBC 1705.13.3) (ASCE 7-16, 13.2.2, C13.2.2) (UFC 3-301-1, 2-5.3)

DESIGNATED SEISMIC SYSTEMS DO NOT APPLY TO THIS PROJECT, due to the Seismic Design Category being less than C.

ELECTRICAL Designated Seismic Systems (DSS) Requiring a Certificate of Compliance
N/A
N/A
N/A
N/A
N/A

If additional space is required, append an additional sheet listing the remaining DSS

MECHANICAL/PLUMBING Designated Seismic Systems (DSS) Requiring a Certificate of Compliance
N/A
N/A
N/A
N/A
N/A
N/A

If additional space is required, append an additional sheet listing the remaining DSS

OTHER Designated Seismic Systems (DSS) Requiring a Certificate of Compliance
N/A
N/A
N/A
N/A
N/A
N/A

Final Walk Down Inspection and Report

(UFC 3 301 01 SECTION 2-5.4)

Final Walk Down Inspection of non-structural Designated Seismic Systems does not apply to this project (no Designated Seismic Systems)

SCHEDULE OF SPECIAL INSPECTIONS

Reference UFGS 01 45 35 for all requirements not noted as part of this schedule.

INSPECTION DEFINITIONS:

PERFORM: Perform these tasks for each weld, fastener or bolted connection, and noted verification.

OBSERVE: Observe these items randomly during the course of each work day to insure that applicable requirements are being met. Operations need not be delayed pending these inspections at contractor's risk.

DOCUMENT: Document, with a report, that the work has been performed in accordance with the contract documents. This is in addition to any other reports required in the Special Inspections guide specification.

CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

The Seismic Design Category for this project is: ☐ A, ☒ B, ☐ C, ☐ D, ☐ E, ☐ F (check appropriate box)

STRUCTURAL - STEEL – WELDING SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

STEEL INSPECTION PRIOR TO WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-1		
TASK	INSPECTION TYPE[1]	DESCRIPTION
1. Verify that the welding procedures specification (WPS) is available	**PERFORM**	
2. Verify manufacturer certifications for welding consumables are available	**PERFORM**	
3. Verify material identification	**PERFORM**	Type and grade.
4. Welder Identification System	**PERFORM**	The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.
5. Fit-up of groove welds (including joint geometry)	OBSERVE	✓ Joint preparation ✓ Dimensions (alignment, root opening, root face, bevel) ✓ Cleanliness (condition of steel surfaces) ✓ Tacking (tack weld quality and location) ✓ Backing type and fit (if applicable)
6. Configuration and finish of access holes	OBSERVE	
7. Fit-up of fillet welds	OBSERVE	✓ Dimensions (alignment, gaps at root) ✓ Cleanliness (condition of steel surfaces) ✓ Tacking (tack weld quality and location)
STEEL INSPECTION DURING WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-2		
TASK	INSPECTION TYPE	DESCRIPTION
8. Use of qualified welders	**PERFORM**	Welding by welders, welding operators, and tack welders who are qualified in conformance with requirements.
9. Control and handling of welding consumables	OBSERVE	✓ Packaging ✓ Electrode atmospheric exposure control
10. No welding over cracked tack welds	OBSERVE	
11. Environmental conditions	OBSERVE	✓ Wind speed within limits ✓ Precipitation and temperature
12. Welding Procedures Specification followed	OBSERVE	✓ Settings on welding equipment ✓ Travel speed ✓ Selected welding materials ✓ Shielding gas type/flow rate ✓ Preheat applied ✓ Interpass temperature maintained (min./max.) ✓ Proper position (F, V, H, OH) ✓ Intermix of filler metals avoided
13. Welding techniques	OBSERVE	✓ Interpass and final cleaning ✓ Each pass within profile limitations ✓ Each pass meets quality requirements

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

STRUCTURAL - STEEL – WELDING SECTION (CONTINUED)

STEEL INSPECTION AFTER WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-3		
TASK	INSPECTION TYPE [1]	DESCRIPTION
14. Welds cleaned	OBSERVE	
15. Size, length, and location of all welds	**PERFORM**	Size, length, and location of all welds conform to the requirements of the detail drawings.
16. Welds meet visual acceptance criteria	**PERFORM AND DOCUMENT**	✓ Crack prohibition ✓ Weld/base-metal fusion ✓ Crater cross section ✓ Weld profiles ✓ Weld size ✓ Undercut ✓ Porosity
17. Arc strikes	**PERFORM**	
18. k-area	**PERFORM**	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks.
19. Backing removed, weld tabs removed and finished, and fillet welds added where required	**PERFORM**	
20. Repair activities	**PERFORM AND DOCUMENT**	
21. Document acceptance or rejection of welded joint or member	**PERFORM**	

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - STEEL – BOLTING SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

STEEL INSPECTION TASKS PRIOR TO BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.6-1		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Manufacture's certifications available for fastener materials	**PERFORM**	
2. Fasteners marked in accordance with ASTM requirements	OBSERVE	
3. Proper fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	OBSERVE	
4. Proper bolting procedure selected for joint detail	OBSERVE	
5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	OBSERVE	
6. Proper storage provided for bolts, nuts, washers, and other fastener components	OBSERVE	
STEEL INSPECTION TASKS DURING BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.6-2		
TASK	INSPECTION TYPE [1]	DESCRIPTION
7. Fastener assemblies of suitable condition, placed in all holes and washers (if required) are positioned as required	OBSERVE	
8. Joint brought to the snug-tight condition prior to pretensioning operation	OBSERVE	
9. Fastener component not turned by the wrench prevented from rotating	OBSERVE	
10. Bolts are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges	OBSERVE	
STEEL INSPECTION TASKS AFTER BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.6-3		
TASK	INSPECTION TYPE [1]	DESCRIPTION
11. Document acceptance or rejection of all bolted connections	**DOCUMENT**	

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - STEEL - NON DESTRUCTIVE TESTING SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

NONDESTRUCTIVE TESTING OF WELDED JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Section N5.5		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Use of qualified nondestructive testing personnel	**PERFORM**	Visual weld inspection and nondestructive testing (NDT) shall be conducted by personnel qualified in accordance with AWS D1.8 clause 7.2
2. CJP groove welds	OBSERVE	~~**[NOTE: DOR must delete this row if section D (SEISMIC PROVISIONS SECTION) is checked]**~~ Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 20% of CJP groove welds for materials greater than 5/16" (8mm) thick. Testing rate must be increased to 100% if greater than 5% of welds tested have unacceptable defects.
3. Welded joints subject to fatigue	OBSERVE	Dye penetrant testing (DT) and Ultrasonic testing (UT) shall be performed on 100% of welded joints identified on contract drawings as being subject to fatigue.
4. Weld tab removal sites	OBSERVE	At the end of welds where weld tabs have been removed, magnetic particle testing shall be performed on the same beam-to-column joints receiving UT

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

STRUCTURAL - STEEL – AISC 341 REQUIREMENTS (SEISMIC PROVISIONS) SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

NONDESTRUCTIVE TESTING OF WELDED JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 341-16: Section J6.2		
TASK	INSPECTION TYPE [1]	DESCRIPTION
[NOTE: DOR may uncheck this section for projects NOT designed in accordance with AISC 341 (Seismic Provisions) or for projects designed according to AISC 341, but using an R value equal to 3]		
5. CJP groove welds	OBSERVE	Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 100% of CJP groove welds for materials greater than 5/16" thick (8mm).
6. Beam cope and access hole.	OBSERVE	At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested using magnetic particle testing (MT) or dye penetrant testing (DT), when the flange thickness exceeds 1 1/2 in. for rolled shapes, or when the web thickness exceeds 1 1/2 in. for built-up shapes.
7. K-area NDT (AISC 341)	**PERFORM**	Where welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, the web shall be tested for cracks using magnetic particle testing (MT). The MT inspection area shall include the k-area base metal within 3-inches of the weld. The MT shall be performed no sooner than 48 hours following completion of the welding.
8. Placement of reinforcing or contouring fillet welds	**DOCUMENT**	

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - STEEL - COMPOSITE CONSTRUCTION [1]

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

COMPOSITE CONSTRUCTION PRIOR TO PLACING CONCRETE – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table N6.1, AISC 341-16: Table J9.1		
TASK	INSPECTION TYPE [2]	DESCRIPTION
1. Placement and installation of steel headed stud anchors	**PERFORM**	
2. Material identification of reinforcing steel (Type/Grade)	OBSERVE	
3. Determination of carbon equivalent for reinforcing steel other than ASTM A706	OBSERVE	
4. Proper reinforcing steel size, spacing, clearances, support, and orientation	OBSERVE	
5. Reinforcing steel has not been re-bent in the field	OBSERVE	
6. Reinforcing clearances have been provided	OBSERVE	
7. Reinforcing steel has been tied and supported as required	OBSERVE	
8. Composite member has required size	OBSERVE	

END SECTION

STRUCTURAL - STEEL - OTHER INSPECTIONS

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

OTHER STEEL INSPECTIONS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 341-16: Tables J8.1 & J10.1		
TASK	INSPECTION TYPE [2]	DESCRIPTION
1. Anchor rods and other embedments supporting structural steel	**PERFORM**	Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.
2. Fabricated steel or erected steel frame	OBSERVE	Verify compliance with the details shown on the construction documents, such as braces, stiffeners, member locations and proper application of joint details at each connection.
3. Reduced beam sections (RBS) where/if occurs	**DOCUMENT**	✓ Contour and finish ✓ Dimensional tolerances
4. Protected zones	**DOCUMENT**	No holes or unapproved attachments made by fabricator or erector
5. H-piles where/if occurs	**DOCUMENT**	No holes or unapproved attachments made by the responsible contractor

END SECTION

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[1] See Concrete Construction Section for all concrete related inspection of composite steel construction.

[2] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - COLD-FORMED METAL DECK - PLACEMENT SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

METAL DECK INSPECTION PRIOR TO DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.1		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	**PERFORM**	
2. Document acceptance or rejection of deck and deck accessories	**DOCUMENT**	
METAL DECK INSPECTION DURING DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.2		
TASK	INSPECTION TYPE [1]	DESCRIPTION
3. Verify compliance of deck and all deck accessories installation with construction documents	**PERFORM**	
4. Verify deck materials are represented by the mill certifications that comply with the construction documents	**PERFORM**	
5. Document acceptance or rejection of installation of deck and deck accessories	**DOCUMENT**	
METAL DECK INSPECTION AFTER DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.3		
TASK	INSPECTION TYPE [1]	DESCRIPTION
6. Welding procedure specification (WPS) available	**PERFORM**	
7. Manufactures certifications for welding consumables available	OBSERVE	
8. Material identification (type/grade)	OBSERVE	
9. Check welding equipment	OBSERVE	

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - COLD-FORMED METAL DECK – WELDING SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

METAL DECK INSPECTION DURING WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.4		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Use of qualified welders	OBSERVE	
2. Control and handling of welding consumables	OBSERVE	
3. Environmental conditions (wind speed, moisture, temperature)	OBSERVE	
4. WPS followed	OBSERVE	
METAL DECK INSPECTION AFTER WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.5		
TASK	INSPECTION TYPE [1]	DESCRIPTION
5. Verify size and location of welds, including support, sidelap, and perimeter welds.	**PERFORM**	
6. Welds meet visual acceptance criteria	**PERFORM**	
7. Verify repair activities	**PERFORM**	
8. Document acceptance or rejection of welds	**DOCUMENT**	

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - COLD-FORMED METAL DECK – FASTENING SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

METAL DECK INSPECTION BEFORE MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.6		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Manufacturer installation instructions available for mechanical fasteners	OBSERVE	
2. Proper tools available for fastener installation	OBSERVE	
METAL DECK INSPECTION DURING MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.7		
TASK	INSPECTION TYPE [1]	DESCRIPTION
3. Fasteners are positioned as required	OBSERVE	
4. Fasteners are installed in accordance with manufacturer's instructions	OBSERVE	
METAL DECK INSPECTION AFTER MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.8		
TASK	INSPECTION TYPE [1]	DESCRIPTION
5. Check spacing, type, and installation of support fasteners	**PERFORM**	
6. Check spacing, type, and installation of sidelap fasteners	**PERFORM**	
7. Check spacing, type, and installation of perimeter fasteners	**PERFORM**	
8. Verify repair activities	**PERFORM**	
9. Document acceptance or rejection of mechanical fasteners	**DOCUMENT**	

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.

STRUCTURAL - LIGHT GAUGE STEEL FRAMING AND/OR LIGHT GAUGE TRUSSES SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

LIGHT GAUGE STEEL CONSTRUCTION AND CONNECTIONS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.2, 1705.11.2, 1705.11.3, UFC 4 023 03		
TASK	INSPECTION TYPE[1]	DESCRIPTION
1. Trusses spanning 60-feet or greater where/if applies	**PERFORM**	Verify that temporary and permanent truss restraint/bracing is installed in accordance with approved truss submittal package.
2. Welded connections (seismic and/or wind resisting system)	OBSERVE	Visually inspect all welds composing part of the main wind or seismic force resisting system, including shearwalls, braces, collectors (drag struts), and hold-downs. **[NOTE: DOR must identify critical wind and/or seismic force resisting welds in the contract drawings so that the special inspector can confirm compliance.]**
3. Connections (seismic and/or wind resisting system)	OBSERVE	Visually inspect all screw attachment, bolting, anchoring and other fastening of components within the main wind or seismic force resisting system, including roof deck, roof framing, exterior wall covering, wall to roof/floor connections, braces, collectors (drag struts) and hold-downs. **[NOTE: DOR must identify critical wind and/or seismic force resisting connection/fastener components in the contract drawings so that the special inspector can confirm compliance.]**
4. Cold-formed steel (progressive collapse resisting system where/if applies)	OBSERVE	Verify proper welding operations, screw attachment, bolting, anchoring and other fastening of components within the progressive collapse resisting system, including horizontal tie force elements, vertical tie force elements and bridging elements (UFC 4 023 03). **[NOTE: DOR must identify critical progressive collapse resisting connection/fastener components in the contract drawings so that the special inspector can confirm compliance.]**

END SECTION

STRUCTURAL - OPEN-WEB STEEL JOISTS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.2.3		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Installation of open-web steel joists and joist girders	OBSERVE	✓ End connections – welded or bolted ✓ Bridging – horizontal and diagonal

END SECTION

[1] **PERFORM**: Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

STRUCTURAL - CONCRETE CONSTRUCTION SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.3 (ACI 318 REFERENCES NOTED IN IBC TABLE)		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Inspect reinforcement, including prestressing tendons, and verify placement.	OBSERVE	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and unacceptable rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
2. Reinforcing bar welding	OBSERVE	✓ Verify weldability of reinforcing bars other than ASTM A 706 ✓ Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4
3. All other welding	**CONTINUOUS**	Visually inspect all welds in accordance with AWS D1.4
4. Cast in place anchors and post installed drilled anchors (downward inclined)	OBSERVE	Verify prior to placing concrete that cast in place anchors and post installed drilled anchors have proper embedment, spacing and edge distance.
5. Post-installed adhesive anchors in horizontal or upward inclined orientations	**CONTINUOUS AND DOCUMENT**	✓ Inspect as required per approved ICC-ES report ✓ Verify that installer is certified for installation of horizontal and overhead installation applications ✓ Inspect proof loading as required by the contract documents
6. Verify use of required mix design	OBSERVE	Verify that all mixes used comply with the approved construction documents
7. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	**CONTINUOUS**	At the time fresh concrete is sampled to fabricate specimens for strength test verify these tests are performed by qualified technicians.
8. Inspect concrete and/or shotcrete placement for proper application techniques	**CONTINUOUS**	Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
9. Verify maintenance of specified curing temperature and technique	OBSERVE	Inspect curing, cold weather protection, and hot weather protection procedures.
10. Pre-stressed concrete	**CONTINUOUS**	Verify application of prestressing forces and grouting of bonded prestressing tendons.

CONTINUED ON FOLLOWING PAGE

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

STRUCTURAL - CONCRETE CONSTRUCTION (CONTINUED)

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.3 (ACI 318 REFERENCES NOTED IN IBC TABLE)		
TASK	INSPECTION TYPE [1]	DESCRIPTION
11. Inspect erection of precast concrete members	OBSERVE	
12. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	OBSERVE	
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.	OBSERVE	

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

STRUCTURAL - MASONRY CONSTRUCTION SECTION (ALL RISK CATEGORIES)

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

MASONRY CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE AT START OF CONSTRUCTION IBC 1705.4 (ACI 530-13 TABLE 3.1.2 & 3.1.3)		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Compliance with approved submittals prior to start	OBSERVE	
2. Proportions of site-mixed mortar.	OBSERVE	
3. Grade and type of reinforcement, anchor bolts, and prestressing tendons and anchorages	OBSERVE	
4. Prestressing technique	OBSERVE	
5. Properties of thin bed mortar for AAC masonry	OBSERVE	
MASONRY CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE PRIOR TO GROUTING IBC 1705.4 (ACI 530-13 TABLE 3.1.2 & 3.1.3)		
TASK	INSPECTION TYPE [1]	DESCRIPTION
6. Grout space	OBSERVE ~~CONTINUOUS~~	~~[NOTE: DOR must either delete 'OBSERVE' for Risk Category IV/V, or delete 'CONTINUOUS' for Risk Categories I/II/ III]~~
7. Proportions of site-prepared grout and prestressing grout for bonded tendons	OBSERVE	
8. Proportions of site-mixed grout and prestressing grout for bonded tendons	OBSERVE	
9. Placement of masonry units and mortar joints	OBSERVE	
10. Welding of reinforcement	**CONTINUOUS**	
MASONRY CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE DURING CONSTRUCTION IBC 1705.4 (ACI 530-13 TABLE 3.1.2 & 3.1.3)		
TASK	INSPECTION TYPE [1]	DESCRIPTION
11. Size and location of structural elements is in compliance	OBSERVE	
12. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°c) or hot weather (temp above 90°F (32.2°C))	OBSERVE	
13. Application and measurement of prestressing force	**CONTINUOUS**	
14. Placement of grout and prestressing grout for bonded tendons	**CONTINUOUS**	
15. Placement of AAC masonry units and construction of thin bed mortar joints	**CONTINUOUS**	Continuous for first 5000 square feet only (465 square meters).
16. Observe preparation of grout specimens, mortar specimens, and/or prisms	OBSERVE	
17. Type, size and placement of reinforcement, connectors, anchor bolts and prestressing tendons and anchorages, including details of anchorage of masonry to structural members, frames, or other construction	OBSERVE ~~CONTINUOUS~~	~~[NOTE: DOR must either delete 'OBSERVE' for Risk Category IV/V, or delete 'CONTINUOUS' for Risk Categories I/II/III]~~

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

STRUCTURAL - WOOD CONSTRUCTION – SPECIALTY ITEMS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

WOOD CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.5		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. High-load diaphragms where applicable	OBSERVE	Verify thickness and grade of sheathing, size of framing members at panel edges, nail diameters and length, and the number of fastener lines and that fastener spacing is per approved contract documents.
2. Metal-plate connected wood trusses spanning 60 feet or greater	OBSERVE	Verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package

END SECTION

STRUCTURAL - WOOD CONSTRUCTION - SEISMIC & WIND SECTION

THIS SECTION IS APPLICABLE IF BOX IS CHECKED: ☐

WOOD CONSTRUCTION SEISMIC AND WIND – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.11 & 1705.12.2		
TASK	INSPECTION TYPE [1]	DESCRIPTION
[NOTE: DOR may uncheck this section where sheathing nailing/fasteners (both shearwall and roof) are consistently greater than 4" on center, or if the design wind speed (ASD) is less than 110 mph (49 meters/sec) AND the seismic design category is A or B]		
1. Nailing, bolting, anchoring and other fastening of elements of the main wind/seismic force-resisting system	OBSERVE (CONTINUOUS FOR GLUING)	Includes connectors for: shearwall sheathing, roof/floor sheathing, drag struts/collectors (double top plates), braces, hold downs, roof connections to exterior walls.

END SECTION

STRUCTURAL – ISOLATION AND ENERGY DISSIPATION SYSTEMS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

ISOLATION AND ENERGY DISSIPATION SYSTEMS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC TABLE 1705.12.8		
[NOTE: This section is <u>not</u> applicable to Seismic Design Category A. Uncheck this section if this category applies]		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Fabrication and installation	OBSERVE	Verify that fabrication and installation of isolator units and energy dissipation devices conform to manufacturer's recommendations and approved construction documents
2. Testing of seismic isolation Systems in seismically isolated structures		Seismic Isolation Systems in seismically isolated structures shall be tested accordance with ASCE 7, Section 17.8

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

GEOTECHNICAL - SOILS INSPECTION SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

SOILS INSPECTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.6		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Materials below shallow foundations are adequate to achieve the design bearing capacity.	OBSERVE	
2. Excavations are extended to proper depth and have reached proper material	OBSERVE	
3. Perform classification and testing of compacted fill materials	**OBSERVE**	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	**CONTINUOUS**	
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	OBSERVE	During fill placement, the special inspector shall verify that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report

END SECTION

GEOTECHNICAL - DRIVEN DEEP FOUNDATION ELEMENTS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

DEEP DRIVEN FOUNDATION CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.7		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Verify element materials, sizes and lengths comply with requirements	**CONTINUOUS**	
2. Inspect driving operations and maintain complete and accurate records for each element	**CONTINUOUS**	
3. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achiever design capacity, record tip and butt elevations and document any damage to foundation element	**CONTINUOUS**	
4. Determine capacities of test elements and conduct additional load tests if required.	**CONTINUOUS**	
5. For steel or concrete elements, perform additional special inspections in accordance with the Steel and Concrete sections in this schedule		

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

GEOTECHNICAL - HELICAL PILE FOUNDATIONS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

HELICAL PILE FOUNDATIONS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.9		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque and other pertinent installation data as required. The approved geotechnical report and the contract documents shall be used to determine compliance	**CONTINUOUS**	

END SECTION

GEOTECHNICAL - CAST IN PLACE DEEP FOUNDATION ELEMENTS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

CAST IN PLACE DEEP FOUNDATION ELEMENTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.8		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Inspect drilling operations and maintain complete and accurate records for each element.	**CONTINUOUS**	
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	**CONTINUOUS**	For concrete elements, perform additional special inspections in accordance with the Concrete section in this schedule

END SECTION

[1] **CONTINUOUS:** Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

FIRE PROTECTION - SPRAYED FIRE-RESISTANT MATERIALS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: X

SPRAYED FIRE RESISTANT MATERIALS (SFRM) – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.14		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Substrate condition	OBSERVE	Prior to application, confirm that surfaces have been prepared according to the approved fire-resistance design and manufacturer's instructions.
2. Material thickness	OBSERVE	Verify SFRM thickness according to 2018 IBC 1705.14.4
3. Material density	OBSERVE	Verify SFRM density according to 2018 IBC 1705.14.5
4. Bond strength	OBSERVE	Verify bond strength of cured SFRM according to IBC 1705.14.6

END SECTION

FIRE PROTECTION - MASTIC AND INTUMESCENT COATINGS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: X

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.15		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Inspect according to AWCI 12-B and the contract documents	OBSERVE	Inspections shall be performed in accordance with AWCI 12-B, Standard Practice for the Testing and Inspection of Field Applied Thin Film Intumescent Fire-Resistive Materials.

END SECTION

FIRE PROTECTION – FIRE RESISTANT PENETRATIONS AND JOINTS SECTION ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: X

FIRE RESISTANT PENETRATIONS AND JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.17		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Inspections of penetration firestop systems conducted in accordance with ASTM E 2174.	OBSERVE	**[NOTE: This section applies to Risk Category III, IV, & V only. DOR may choose to uncheck this section where project is assigned to Risk Category I or II. Confirm Risk Category with Structural Engineer]**
2. Inspections of fire-resistant joint systems conducted in accordance with ASTM E 2393	OBSERVE	

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

FIRE PROTECTION – SMOKE CONTROL SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

SMOKE CONTROL – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.18		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Verify device locations and perform leakage testing	OBSERVE	Perform during erection of ductwork and prior to concealment
2. Pressure difference testing, flow measurements and detection and control verification	OBSERVE	Perform prior to occupancy and after sufficient completion

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

ARCHITECTURAL - EXTERIOR INSULATION AND FINISH SYSTEMS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.16		
TASK	INSPECTION TYPE [1]	DESCRIPTION
1. Water resistive barrier coating applied over a sheathing substrate.	OBSERVE	Verify that water resistive barrier coating complies with ASTM E 2570. **[NOTE: not applicable to masonry or concrete wall applications. Uncheck this section in those cases]**

END SECTION

ARCHITECTURAL – ARCHITECTURAL COMPONENTS

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

ARCHITECTURAL COMPONENTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.12.5, 1705.12.7		
TASK	INSPECTION TYPE [1]	DESCRIPTION
[NOTE: This section is not applicable to Seismic Design Categories A, B, & C. Uncheck this section if one of those categories applies. Confirm Seismic Design Category with the structural engineer]		
1. Erection and fastening of exterior cladding and interior and exterior veneer.	OBSERVE	Verify appropriate materials, fasteners and attachment at commencement of work and at completion. **Inspector Note: Inspection not required if height is less than 30 feet or weight is less than 5psf**
2. Interior and exterior non-load bearing walls	OBSERVE	Verify appropriate materials, fasteners and attachment at commencement of work and at completion. **Inspector Note: Inspection not required if interior non-load bearing walls weigh less than 15psf**
3. Access floors	OBSERVE	Verify that anchorage complies with approved construction documents.
4. Storage racks	OBSERVE	Verify that anchorage complies with approved construction documents. Inspection of post-installed anchors shall comply with approved ICC-ES report. **Inspector Note: Not required for racks less than 8 feet in height**

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

PLUMBING/MECHANICAL/ELECTRICAL DESIGNATED SEISMIC SYSTEMS SECTION

ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☐

PLUMBING, MECHANICAL AND ELECTRICAL IBC 1705.12.6		
TASK	INSPECTION TYPE [1]	DESCRIPTION
[NOTE: This section is not applicable to Seismic Design Categories A or B. Uncheck this section if one of those categories applies. Confirm Seismic Design Category with structural engineer]		
1. Anchorage of electrical equipment for emergency and standby power systems	OBSERVE	✓ Check for general conformance
2. Anchorage of all other electrical equipment in Seismic Design Categories E and F only (See first page of this schedule for Seismic Design Category)	OBSERVE	✓ Check for general conformance
3. Installation and anchorage of piping designed to carry hazardous materials and their associated mechanical units.	OBSERVE	✓ Check for general conformance
4. Installation and anchorage of vibration isolation systems where the construction documents require a nominal clearance of ¼" or less between support framing and restraint.	OBSERVE	✓ Check for general conformance
5. Verification of clearance between fire sprinkler piping and surrounding mechanical and electrical equipment, including ductwork, piping and their structural supports.	OBSERVE	✓ Check for minimum clearances noted in ASCE7 13.2.3 or a nominal clearance of not less than 3 inches

END SECTION

[1] **OBSERVE**: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

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SECTION 01 50 00

TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS
11/20

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA C511	(2017) Reduced-Pressure Principle Backflow Prevention Assembly

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70	(2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA 20-1; TIA 20-2; TIA 20-3; TIA 20-4) National Electrical Code
NFPA 241	(2019) Standard for Safeguarding Construction, Alteration, and Demolition Operations

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety and Health Requirements Manual

U.S. FEDERAL HIGHWAY ADMINISTRATION (FHWA)

MUTCD	(2015) Manual on Uniform Traffic Control Devices

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Construction Site Plan; G, RO

Traffic Control Plan; G, RO

Haul Road Plan; G, RO

Contractor Computer Cybersecurity Compliance Statements; G, RO

Contractor Temporary Network Cybersecurity Compliance Statements; G, RO

SD-06 Test Reports

Backflow Preventer Tests

SD-07 Certificates

Backflow Tester Certification

Backflow Preventers Certificate of Full Approval

1.3 LAYOUT OF WORK

a. The Government will establish the following base lines and bench marks at the site of the work: (Monuments and bench marks as shown on the drawings.)

b. From the base lines and bench marks established by the Government, complete the layout of the work and provide measurements for the execution of the work to the location and limit marks indicated, subject to such modifications as the Contracting Officer may require to meet changed conditions or as a result of necessary modifications to the contract work.

c. Provide stakes, templates, platforms, equipment, tools and material, and labor as required for laying out the work from the base lines and bench marks established by the Government. Maintain and preserve all stakes and other marks established by the Contracting Officer until authorized to remove them, and if such marks are destroyed by the Contractor or through his negligence prior to their authorized removal, they may be replaced by the Contracting Officer, at his discretion, and the expense of replacement will be deducted from any amounts due or to become due the Contractor. The Contracting Officer may require that work be suspended at any time when location and limit marks established by the Contractor are not reasonably adequate to permit checking of the work.

1.4 CONSTRUCTION SITE PLAN

All construction site plans within USAG WP are pre-planned and coordinated with various Directorates. All construction site elements are included in the RTA drawing set. Refer to drawings for details on the construction site plan.

1.5 BACKFLOW PREVENTERS CERTIFICATE

1.5.1 Backflow Tester Certificate

Prior to testing, submit to the Contracting Officer certification issued by the State or local regulatory agency attesting that the backflow tester has successfully completed a certification course sponsored by the regulatory agency. Tester must not be affiliated with a company participating in other phases of this Contract.

1.5.2 Backflow Prevention Training Certificate

Submit a certificate recognized by the State or local authority that states the Contractor has completed at least 10 hours of training in backflow preventer installations. The certificate must be current.

1.6 DOD CONDITION OF READINESS (COR)

DOD will set the Condition of Readiness (COR) based on the weather forecast for sustained winds 50 knots (58 mph) or greater. Contact the Contracting Officer for the current COR setting.

Monitor weather conditions a minimum of twice a day and take appropriate actions according to the approved Emergency Plan in the accepted Accident Prevention Plan, EM 385-1-1 Section 01 Emergency Planning and the instructions below.

Unless otherwise directed by the Contracting Officer, comply with:

a. Condition FOUR (Sustained winds of 58 mph or greater expected within 72 hours): Normal daily jobsite cleanup and good housekeeping practices. Collect and store in piles or containers scrap lumber, waste material, and rubbish for removal and disposal at the close of each work day. Maintain the construction site including storage areas, free of accumulation of debris. Stack form lumber in neat piles less than 3.3 feet high. Remove all debris, trash, or objects that could become missile hazards. Review requirements pertaining to "Condition THREE" and continue action as necessary to attain "Condition FOUR" readiness. Contact Contracting Officer for weather and COR updates and completion of required actions.

b. Condition THREE (Sustained winds of 58 mph or greater expected within 48 hours): Maintain "Condition FOUR" requirements and commence securing operations necessary for "Condition ONE" which cannot be completed within 18 hours. Cease all routine activities which might interfere with securing operations. Commence securing and stow all gear and portable equipment. Make preparations for securing buildings. Reinforce or remove formwork and scaffolding. Secure machinery, tools, equipment, materials, or remove from the jobsite. Expend every effort to clear all missile hazards and loose equipment from general base areas. Contact Contracting Officer for weather and COR updates and completion of required actions. Review requirements pertaining to "Condition TWO" and continue action as necessary to attain "Condition THREE" readiness.

c. Condition TWO (Sustained winds of 58 mph or greater expected within 24 hours): Secure the jobsite, and leave Government premises.

d. Condition ONE. (Sustained winds of 58 mph or greater expected within 12 hours): Contractor access to the jobsite and Government premises is prohibited.

1.7 CYBERSECURITY DURING CONSTRUCTION

{For Reference Only: This subpart (and its subparts) relates to AC-18, SA-3, CCI-00258.} Meet the following requirements throughout the construction process.

1.7.1 Contractor Computer Equipment

Contractor owned computers may be used for construction. When used, Contractor computers must meet the following requirements:

1.7.1.1 Operating System

The operating system must be an operating system currently supported by the manufacturer of the operating system. The operating system must be current on security patches and operating system manufacturer required updates.

1.7.1.2 Anti-Malware Software

The computer must run anti-malware software from a reputable software manufacturer. Anti-malware software must be a version currently supported by the software manufacturer, must be current on all patches and updates, and must use the latest definitions file. All computers used on this project must be scanned using the installed software at least once per day.

1.7.1.3 Passwords and Passphrases

The passwords and passphrases for all computers must be changed from their default values. Passwords must be a minimum of eight characters with a minimum of one uppercase letter, one lowercase letter, one number and one special character.

1.7.1.4 Contractor Computer Cybersecurity Compliance Statements

Provide a single submittal containing completed Contractor Computer Cybersecurity Compliance Statements for each company using Contractor owned computers. Contractor Computer Cybersecurity Compliance Statements must use the template published at http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables. Each Statement must be signed by a cybersecurity representative for the relevant company.

1.7.2 Temporary IP Networks

Temporary Contractor-installed IP networks may be used during construction. When used, temporary Contractor-installed IP networks must meet the following requirements:

1.7.2.1 Network Boundaries and Connections

The network must not extend outside the project site and must not connect to any IP network other than IP networks provided under this project or Government furnished IP networks provided for this purpose. Any and all network access from outside the project site is prohibited.

1.7.3 Government Access to Network

Government personnel must be allowed to have complete and immediate access to the network at any time in order to verify compliance with this specification.

1.7.4 Temporary Wireless IP Networks

In addition to the other requirements on temporary IP networks, temporary wireless IP (WiFi) networks must not interfere with existing wireless network and must use WPA2 security. Network names (SSID) for wireless networks must be changed from their default values.

1.7.5 Passwords and Passphrases

The passwords and passphrases for all network devices and network access must be changed from their default values. Passwords must be a minimum 8 characters with a minimum of one uppercase letter, one lowercase letter, one number and one special character.

1.7.6 Contractor Temporary Network Cybersecurity Compliance Statements

Provide a single submittal containing completed Contractor Temporary Network Cybersecurity Compliance Statements for each company implementing a temporary IP network. Contractor Temporary Network Cybersecurity Compliance Statements must use the template published at http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables. Each Statement must be signed by a cybersecurity representative for the relevant company. If no temporary IP networks will be used, provide a single copy of the Statement indicating this.

PART 2 PRODUCTS

2.1 TEMPORARY SIGNAGE

2.1.1 Bulletin Board

Prior to the commencement of work activities, provide a clear weatherproof covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the Contract, Wage Rate Information poster, Safety and Health Information as required by EM 385-1-1 Section 01 and other information approved by the Contracting Officer. Coordinate requirements herein with 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS. Locate the bulletin board at the project site in a conspicuous place easily accessible to all employees, and in location as approved by the Contracting Officer.

2.1.2 Project Identification Signs

The requirements for the signs, their content, and location are as specified in Section 01 58 00 PROJECT IDENTIFICATION. Erect signs within 15 days after receipt of the notice to proceed. Correct the data required by the safety sign daily, with light colored metallic or non-metallic numerals.

2.1.3 Warning Signs

Post temporary signs, tags, and labels to give workers and the public adequate warning and caution of construction hazards according to the EM 385-1-1 Section 04. Attach signs to the perimeter fencing every 150 feet warning the public of the presence of construction hazards. Signs must require unauthorized persons to keep out of the construction site. Correct the data required by safety signs daily. Post signs at all points of entry designating the construction site as a hard hat area.

2.2 TEMPORARY TRAFFIC CONTROL

2.2.1 Haul Roads

Construct access and haul roads necessary for proper prosecution of the work under this Contract in accordance with EM 385-1-1 Section 04. Construct with suitable grades and widths; avoid sharp curves, blind corners, and dangerous cross traffic. Submit haul road plan for approval. Provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control, although optional, must be adequate to ensure safe operation at all times. Location, grade, width, and alignment of construction and haul roads are subject to approval by the Contracting Officer. Lighting must be adequate to assure full and clear visibility for full width of haul road and work areas during any night work operations.

2.2.2 Barricades

Erect and maintain temporary barricades to limit public access to hazardous areas. Barricades are required whenever safe public access to paved areas such as roads, parking areas or sidewalks is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Securely place barricades clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

2.3 FENCING

Provide fencing along the construction site and at all open excavations and tunnels to control access by unauthorized personnel. Safety fencing must be highly visible to be seen by pedestrians and vehicular traffic. All fencing must meet the requirements of EM 385-1-1. Remove the fence upon completion and acceptance of the work.

To block public view of the construction, enclose the project work area and Contractor lay-down area with a 8 ft high chain link fence and gates with brown, UV light resistant, plastic fabric mesh netting (similar to tennis court or other screening).

2.3.1 Polyethylene Mesh Safety Fencing

Temporary safety fencing must be a high visibility orange colored, high density polyethylene grid, a minimum of 48 inches high and maximum mesh size of 2 inches. Fencing must extend from the grade to a minimum of 48 inches above the grade and be tightly secured to T-posts spaced as necessary to maintain a rigid and taut fence. Fencing must remain rigid and taut with a minimum of 200 pounds of force exerted on it from any direction with less than 4 inches of deflection.

2.3.2 Chain Link Panel Fencing

Temporary panel fencing must be black powder coated in color steel chain link panels 6 feet high. Plastic strip inserts for fencing required. Color to be approved by contracting officer with input from USAG WP DPW. Multiple fencing panels may be linked together at the bases to form long spens as needed. Each panel base must be weighted down using sand bags or other suitable materials in order ofr the fencing to withstand anticipated winds while remaining upright.

2.3.3 Post-Driven Chain Link Fencing

Temporary post-driven fencing must be galvanized chain link fencing 8 feet high supported by an tightly secured to galvanized steel posts driven below grade. Plastic strip inserts for fencing required. Color to be approved by contracting officer with input from USAG WP DPW. Fence posts must be located on minimum 10 foot centers. Posts may be set in various surfaces such as sand, soil, asphalt or concrete as necessary. Chain link fencing must remain rigid and taut with a minimum of 200 pounds of force exerted on it from any direction with less than 4 inches of deflection. Completely remove fencing and posts at the completion of construction and restore surfaces disturbed or damaged to its original condition. Locate and identify underground utilities prior to setting fence posts. Equip fence with a lockable gate. Gate must remain locked when construction personnel are not present.

2.4 TEMPORARY WIRING

Provide temporary wiring in accordance with EM 385-1-1 Section 11, NFPA 241 and NFPA 70. Include monthly inspection and testing of all equipment and apparatus.

2.5 BACKFLOW PREVENTERS

Certificate of Full Approval from FCCCHR List, University of Southern California, attesting that the design, size and make of each backflow preventer has satisfactorily passed the complete sequence of performance testing and evaluation for the respective level of approval. Certificate of Provisional Approval is not acceptable.

Reduced pressure principle type conforming to the applicable requirements AWWA C511. Provide backflow preventers complete with 150 pound flanged cast iron, brass mounted gate valve and strainer, 304 stainless steel or bronze, internal parts.

USAG WP DPW requirements for backflow preventers can be acquired by the Water Department via Thomas Armstrong at thomas.w.armstrong20.civ@mail.mil

PART 3 EXECUTION

3.1 EMPLOYEE PARKING

Contractors and construction vehicles can only park in pre-approved designated staging areas or as identified in their contract. Provide parking areas with adequate outdoor lighting in accordance with EM 385-1-1, TABLE 7-1.

a. Under no circumstances will General Construction Contractors park in any Central Parking Area (CPA) Lots. No contractors are to park outside of or adjacent to the construction fence at any time during the project.

b. b. General construction contractor(s) or subcontractor(s) will not park in designated loading zone or drop off areas for longer than 15 minutes.

3.1.1 Violation of Parking Policy

a. Implied Consent to Tow and/or Impound a Vehicle. However, before a vehicle is removed from West Point, reasonable attempts will be made to locate the owner of the POV. IAW AR 190-5 and West Point Regulation 190-5, persons who operate a motor vehicle on West Point shall be deemed to have given consent for the removal and temporary impoundment of a Privately Owned Vehicle when:

(1) Remaining parked on the Installation for more than 72 hours.

(2) Illegally parked and/or interfering with Installation activities or operations.

(3) Causing a safety hazard.

(4) Disabled as the result of an accident and left at the scene.

(5) Left unattended in a restricted or controlled area.

(6) Parked in a Central Parking Area (CPA) lot without an authorized decal displayed to indicate the vehicle is approved to park in that area.

3.2 AVAILABILITY AND USE OF UTILITY SERVICES

3.2.1 Temporary Utilities

Provide temporary utilities required for construction. Materials may be new or used, must be adequate for the required usage, not create unsafe conditions, and not violate applicable codes and standards. Remove temporary utilities upon project's completion.

3.2.2 Payment for Utility Services

a. The Government will make all reasonably required utilities available from existing outlets and supplies, as specified in the Contract. Unless otherwise provided in the Contract, the amount of each utility service consumed will be charged to or paid at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. Carefully conserve utilities furnished without charge.

b. Reasonable amounts of the following utilities will be made available at the following rates:, current at the time of writing of these specifications. Up to date USAG WP DPW utility rates can be acquired by BOID. Water will be furnished by the Government at the discretion of USAG WP DPW. If water is furnished, the following rate applies

Utility Services		
	Cost ($) per	Unit
Electricity	0.14	KWH
Potable Water	3.23	KALS
Salt Water	N/A	N/A

Utility Services		
Compressed Air	N/A	N/A
Steam	N/A	N/A
Natural Gas	7.02	KCF
Sanitary Sewer	2.90	KGALS

c. USAG WP has privatized electrical service. Contact CLP, the electrical utility privatization firm, for pricing and coordination efforts as it relates to electric.Email request to: AWP@CLPINC.COM and Terrance.Hora@mail.mil Phone number: 845-322-8223. USAG WP has privatized water and wastewater services. Point of contact for coordination is Rangi Mathew, rangi.k.mathew2.civ@mail.mil.

d. Pay all costs incurred in connecting, converting, and transferring the utilities to the work. Make connections, including providing backflow-preventing devices on connections to domestic water lines; providing meters; and providing transformers; and make disconnections.

e. Utilities will be paid for via a reimbursement to the contract.

d. The Contractor must provide their own utilities.

3.2.3 Meters and Temporary Connections

Provide and maintain necessary temporary connections, distribution lines, and meter bases required to measure the amount of each utility used for the purpose of determining charges. Notify the Contracting Officer, in writing, 5 working days before final electrical connection is desired so that a utilities contract can be established. The Government will make the final hot connection after inspection and approval of the Contractor's temporary wiring installation. Do not make the final electrical connection. The Government will not make the final inspection. The Contractor is to use USAG WP Utility Privatization Contractor, City, Light & Power for all electrical work.

3.2.4 Advance Deposit

An advance deposit for utilities consisting of an estimated month's usage or a minimum of $50.00 will be required. The last monthly bills for the fiscal year will normally be offset by the deposit and adjustments will be billed or returned as appropriate. Services to be rendered for the next fiscal year, beginning 1 October, will require a new deposit. Notification of the due date for this deposit will be mailed prior to the end of the current fiscal year.

3.2.5 Final Meter Reading

Before completion of the work and final acceptance of the work by the Government, notify the Contracting Officer, in writing, 5 working days before termination is desired. The Government will take a final meter reading, disconnect services. Then remove all the temporary distribution lines, meter bases, and associated appurtenances. Pay all outstanding utility bills before final acceptance of the work by the Government.

3.2.6 Sanitation

Provide and maintain within the construction area minimum field-type sanitary facilities in accordance with EM 385-1-1 Section 02. Locate the facilities behind the construction fence or out of the public view. Clean units and empty wastes at least once a week or more frequently into a municipal, district, or station sanitary sewage system, or remove waste to a commercial facility. Obtain approval from the system owner prior to discharge into a municipal, district, or commercial sanitary sewer system. Penalties or fines associated with improper discharge will be the responsibility of the Contractor. Coordinate with the Contracting Officer and follow station regulations and procedures when discharging into the station sanitary sewer system. Maintain these conveniences at all times. Include provisions for pest control and elimination of odors. Government toilet facilities will not be available to Contractor's personnel.

3.2.7 Telephone

Make arrangements and pay all costs for telephone facilities desired.

3.2.8 Fire Protection

Provide temporary fire protection equipment for the protection of personnel and property during construction in accordance with Section 9 of EM 385-1-1. Remove debris and flammable materials daily to minimize potential hazards.

3.3 ACCESS ROUTES

Contractor's personnel and construction equipment will not be permitted in any place other than the project site and the haul route for the borrow and spoil sites, unless specifically authorized by the Contracting Officer. A request for authorization to use alternate limited access must be made by the Contractor to the Contracting Officer at least 7 calendar days in advance.

3.4 TRAFFIC PROVISIONS

3.4.1 Maintenance of Traffic

The Contractor must be responsible for the maintenance of access roads at the construction site. Maintenance of access roads must include snow removal. The Contractor must remove snow piles and rows when they affect safety, hamper emergency and fire vehicles, or block proper drainage. The Contractor must provide and allow full access to the project site to all traffic, except as noted, to other contractors and authorized personnel as designated by the Contracting Officer.

The Contractor must not inflict damage upon land properties, roads outside the authorized construction areas by unwarranted entry upon, driving over curbs, passage through, damage to or disposal of, material on such land or property, or overloading of roads. The Contractor may make a separate agreement with any other party, regarding the use of, or right to, land or facilities outside the Installation. If such an agreement is made, it must be in writing and a copy must be furnished to the Contracting Officer. The Contractor must hold and save the Government, its officers and agents free from liability of any nature or kind arising from any trespassing or damage occasioned by Contractor operations.

a. Conduct operations in a manner that will not close a thoroughfare or interfere with traffic on railways or highways except with written permission of the Contracting Officer at least 15 calendar days prior to the proposed modification date, and provide a Traffic Control Plan for Government approval detailing the proposed controls to traffic movement for approval. The plan must be in accordance with State and local regulations and the MUTCD, Part VI. Contractor may move oversized and slow-moving vehicles to the worksite provided requirements of the highway authority have been met.

b. Conduct work so as to minimize obstruction of traffic, and maintain traffic on at least half of the roadway width at all times. Obtain approval from the Contracting Officer prior to starting any activity that will obstruct traffic.

c. Provide, erect, and maintain, at Contractor's expense, lights, barriers, signals, passageways, detours, and other items, that may be required by the Life Safety Signage, overhead protection authority having jurisdiction.

d. Provide cones, signs, barricades, lights, or other traffic control devices and personnel required to control traffic. Do not use foil-backed material for temporary pavement marking because of its potential to conduct electricity during accidents involving downed power lines.

3.4.2 Protection of Traffic

Maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Contracting Officer. Measures for the protection and diversion of traffic, including the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment the work, and the erection and maintenance of adequate warning, danger, and direction signs, will be as required by the State and local authorities having jurisdiction. Provide self-illuminated (lighted) barricades during hours of darkness. Brightly-colored (orange) vests are required for all personnel working in roadways. Protect the traveling public from damage to person and property. Minimize the interference with public traffic on roads selected for hauling material to and from the site. Investigate the adequacy of existing roads and their allowable load limit. Contractor is responsible for the repair of damage to roads caused by construction operations.

3.4.3 Dust Control

Dust control methods and procedures must be approved by the Contracting Officer. Coordinate dust control methods with 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.

3.5 REDUCED PRESSURE BACKFLOW PREVENTERS

Provide an approved reduced pressure backflow prevention assembly at each location where the Contractor taps into the Government potable water supply.

Perform backflow preventer tests using test equipment, procedures, and certification forms conforming to those outlined in the latest edition of the Manual of Cross-Connection Control published by the FCCCHR Manual.

Test and tag each reduced pressure backflow preventer upon initial installation (prior to continued water use) and monthly thereafter. Tag must contain the following information: make, model, serial number, dates of tests, results, maintenance performed, and signature of tester. Record test results on certification forms conforming to requirements cited earlier in this paragraph.

3.6 CONTRACTOR'S TEMPORARY FACILITIES

Temporary facilities must meet requirements as identified in EM 385-1-1 Section 04. Government offices and warehouse facilities will NOT be available to the Contractor.

Contractor is responsible for security of their property. Provide adequate outside security lighting at the temporary facilities. Trailers must be anchored to resist high winds and meet applicable state or local standards for anchoring mobile trailers. Coordinate anchoring with EM 385-1-1 Section 04. The Contract Clause entitled "FAR 52.236-10, Operations and Storage Areas" and the following apply:

3.6.1 Administrative Field Offices

Provide and maintain administrative field office facilities within the construction area at the designated site.

Trailers provided and used by the Contractor must present a clean and neat exterior appearance and must be in a state of good repair. Trailers, which, in the opinion of the Contracting Officer, require exterior painting or maintenance, will not be allowed on the Installation. The trailer must be a minimum of 720 square feet with a minimum of 7 feet headroom. Trailers must be equipped with approved electrical wiring, at least six (6) double convenience outlets and the required switches and fuses to provide 110-220 volt power. The trailer must be waterproof, must have a minimum of two doors, electric lights, a battery operated smoke detector alarm, a sufficient number of screened and adjustable windows with blinds for adequate light and ventilation.

Windows and doors must be capable of being locked with dead bolt type locking devices or a padlock and heavy-duty hasp bolted to the door. Door hinge pins must be non-removable. Windows must be arranged to open and to be securely fastened from the inside. Electrical lighting must be sufficient for office use with power and electrical outlets sufficient to support office equipment described in this paragraph. Heating and air conditioning must be provided. In warm weather, air conditioning capable of maintaining the office at 50 percent relative humidity and a room temperature of 70 degrees F. In cold weather heat must be capable of maintaining 78 degrees. Necessary power, telephone and internet services to support building and office equipment must be furnished by the Contractor. Coordinate with Government (ACE-IT) for required internet speed.

Location of Contractor laydown area within Doubleday parking lot per attachment, and must be coordinated with Cullum Hall project.

New buildings for temporary project offices are not allowed.

3.6.2 Storage Area

Construct a temporary 6 foot high chain link fence around trailers and

materials. Include plastic strip inserts, colored brown, so that visibility through the fence is obstructed. Fence posts may be driven, in lieu of concrete bases, where soil conditions permit. Do not place or store trailers, materials, or equipment outside the fenced area unless such trailers, materials, or equipment are assigned a separate and distinct storage area by the Contracting Officer away from the vicinity of the construction site but within the installation boundaries. Trailers, equipment, or materials must not be open to public view with the exception of those items which are in support of ongoing work on the current day. Do not stockpile materials outside the fence in preparation for the next day's work. Park mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment within the fenced area at the end of each work day.

All materials, trailers, and storage sheds in staging and construction areas must be elevated and stored a minimum of 3 feet from any structure or fixed object. Trailers must have doors on both ends.

Keep fencing in a state of good repair and proper alignment. Grassed or unpaved areas, which are not established roadways, and will be traversed with construction equipment or other vehicles, must be covered with a layer of gravel as necessary to prevent rutting and the tracking of mud onto paved or established roadways, should the Contractor elect to traverse them with construction equipment or other vehicles. Mow and maintain grass located within the boundaries of the construction site for the duration of the project. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers must be edged or trimmed neatly.

Snow removal and salt/sand application within the boundaries of construction fencing is the responsibility of the contractor.

3.6.3 Supplemental Storage Area

Upon request, and pending availability, the Contracting Officer will designate another or supplemental area for the use and storage of trailers, equipment, and materials. This area may not be in close proximity of the construction site but will be within the installation boundaries. Maintain the area in a clean and orderly fashion and secured if needed to protect supplies and equipment. Utilities will not be provided to this area by the Government.

3.6.4 Appearance of Trailers

a. Trailers must be roadworthy and comply with all appropriate state and local vehicle requirements. Trailers which are rusted, have peeling paint or are otherwise in need of repair will not be allowed on Installation property. Trailers must present a clean and neat exterior appearance and be in a state of good repair and maintained. Failure to do so will be sufficient reason to require their removal.

b. Confirm Contractor trailer identification information with USAG DPW.

3.6.5 Color

The color of dumpsters, trailers, and storage sheds and portable latrines must be approved by the Contracting Officer with input from USAG WP DPW.

3.6.6 Safety Systems

Protect the integrity of all installed safety systems or personnel safety devices. Obtain prior approval from the Contracting Officer if entrance into systems serving safety devices is required. If it is temporarily necessary to remove or disable personnel safety devices in order to accomplish Contract requirements, provide alternative means of protection prior to removing or disabling any permanently installed safety devices or equipment and obtain approval from the Contracting Officer.

3.6.7 Weather Protection of Temporary Facilities and Stored Materials

Take necessary precautions to ensure that roof openings and other critical openings in the building are monitored carefully. Take immediate actions required to seal off such openings when rain or other detrimental weather is imminent, and at the end of each workday. Ensure that the openings are completely sealed off to protect materials and equipment in the building from damage.

3.6.7.1 Building and Site Storm Protection

When a warning of gale force winds is issued, take precautions to minimize danger to persons, and protect the work and nearby Government property. Precautions must include, but are not limited to, closing openings; removing loose materials, tools and equipment from exposed locations; and removing or securing scaffolding and other temporary work. Close openings in the work when storms of lesser intensity pose a threat to the work or any nearby Government property.

3.7 GOVERNMENT FIELD OFFICE

3.7.1 Resident Engineer's Office

The Contractor must provide and maintain administrative field office facilities within the construction area at the designated site. Additionally, within the Contractor's Office trailer, the Contractor must provide an office space for use by the Government Contracting Officer's Representative. The Government area will not be available to the Contractor's personnel. The Contractor must furnish, set-up, and maintain one (1) parking space reserved for Government use only. The staging area and lay down areas will be surrounded by an 6 foot high, vinyl coated, chain linked fence that will be permanently mounted. The fence will be covered with black mesh material. The fencing will be maintained by the Contractor and remain in place for the duration of the project. The fence will be properly reinforced for assure levelness and plumbness and will be able to withstand wind and snow loading.

The office area must be fully equipped with new office furnishings and equipment as described below. Janitorial services must be provided a minimum of two weekly including mopping of the floor and garbage removal. The Contractor must provide drinking water. The furnishings, and equipment will be returned to the Contractor at the end of the project and removed from the project site. No separate payment will be made for providing the furnishings and equipment.

- Government Field Office size is to be based off project value:

  (1) 1000 sqft

(2) Assume 6 people for parking and work spaces

(3) 6 lockable, legal sized, four-drawer filing cabinet

NOTE For programs, such as CBUP and ABUP, construction trailers are sometime passed from one contract to another - if this is anticipated, ensure sizing in contract matches sizing already in the field.

Fencing around staging area and lay down areas to be 6ft tall.

All IT infrastructure Must be located in Secured Locked Closets to include Data Patch Panel, IT VPN Routers and Switches.

Contractor to supply:

(1) One workstation per person with chair, tele/data, cordless phone with answering machine and speaker phone, garbage can.

(2) One plan rack.

(3) One drawing/drafting table with chair.

(4) Janitorial services, toilet paper, paper towels, soap etc. Janitorial services and cleaning is to be required at a frequency of once a week and include the use of a disinfectant. HEPA MERV 13 or approved equivalent filters to be included in HVAC units and required to be changed at regular monthly intervals.

(5) Driking water

(6) Printing paper and ink/toner. Hardware and cables to be furnished and installed so that the Government work stations can utilize printer on a private network in field office.

(7) ACE-IT approved copier/scanner/printer/fax with necessary tele/data.

(8) Firt Aid Kit. As a minimum the kit will include antiseptic kit, eyewash solution, bandages, insect sting medication, aspirin and acetaminophen, and cold pack.

(9) Refrigerator, microwave and coffee pot

(10) Fire extinguisher.

(11) Two 3ft x 5ft white boards with markers and eraser.

(12) NO NEED FOR DIGITAL CAMERA

(13) One combination telephone/answering machines. The Contractor must provide separate lines for the fax machine, telephones and computers connections. Data / Tele to each workstation is required.

Note: Computer hardware and software used in the field office will be Governement furnished.

3.7.2 Trailer-Type Mobile Office

The option is available to, furnish and maintain a trailer-type mobile

office acceptable to the Contracting Officer to meet the requirements of the minimum facilities specified above. Securely anchor the trailer to the ground at all four corners to guard against movement during high winds. Coordinate requirements for proper anchoring with EM 385-1-1 Section 04.

3.8 PLANT COMMUNICATIONS

Whenever the individual elements of the plant are located so that operation by normal voice between these elements is not satisfactory, install a satisfactory means of communication, such as telephone or other suitable devices and make available for use by Government personnel.

3.9 TEMPORARY PROJECT SAFETY FENCING

As soon as practicable, but not later than 15 days after the date established for commencement of work, furnish and erect temporary project safety fencing at the work site. Maintain the safety fencing during the life of the Contract and, upon completion and acceptance of the work, remove from the work site.

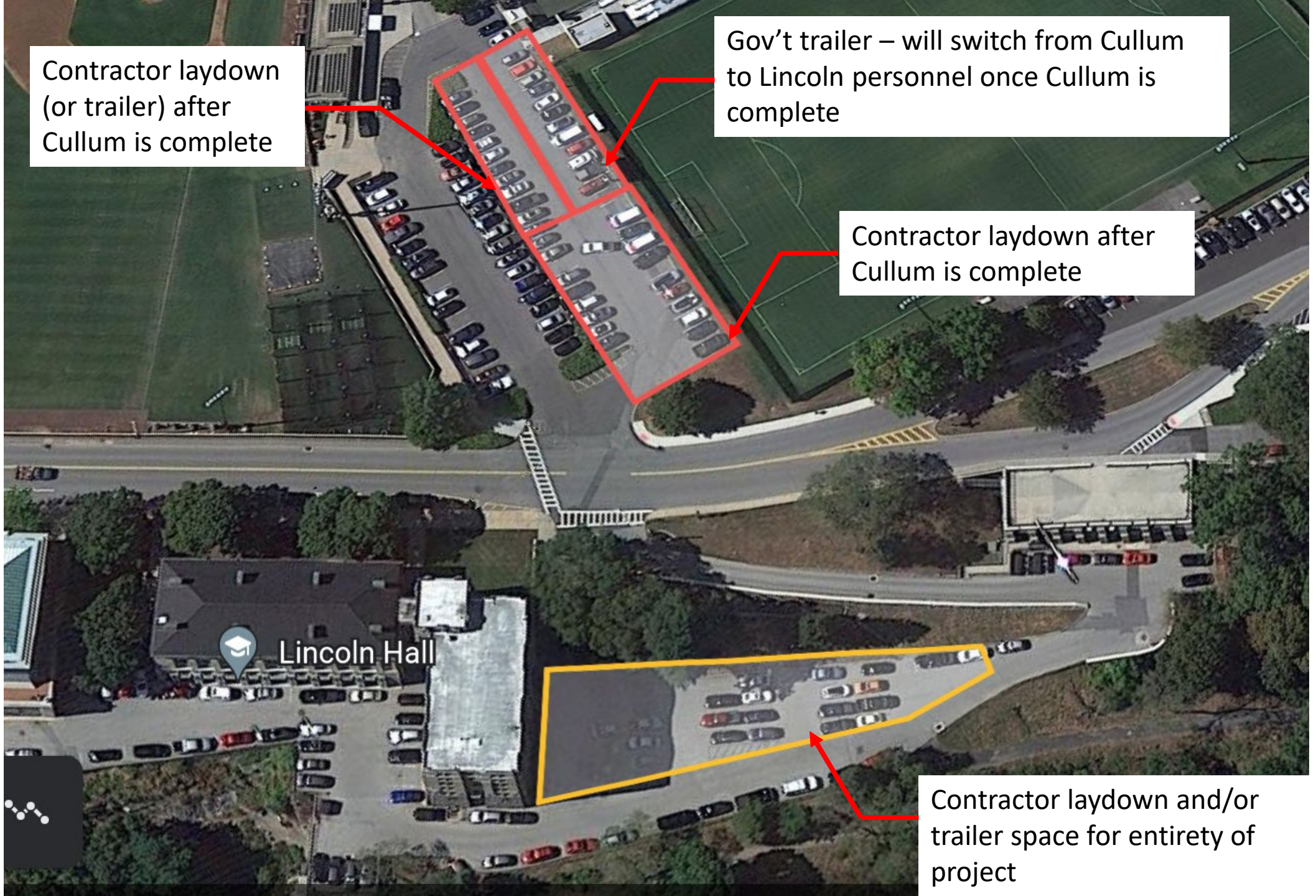
3.10 CLEANUP

Remove construction debris, waste materials, packaging material and the like from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways must be cleaned away. Store all salvageable materials resulting from demolition activities within the fenced area described above or at the supplemental storage area. Neatly stack stored materials not in trailers, whether new or salvaged.

3.11 RESTORATION OF STORAGE AREA

Upon completion of the project remove the bulletin board, signs, barricades, haul roads, and all other temporary products from the site. After removal of trailers, materials, and equipment from within the fenced area, remove the fence. Restore areas used during the performance of the Contract to the original or better condition. Remove gravel used to traverse grassed areas and restore the area to its original condition, including top soil and seeding as necessary.

-- End of Section --


Contractor laydown (or trailer) after Cullum is complete
Gov’t trailer – will switch from Cullum to Lincoln personnel once Cullum is complete
Contractor laydown after Cullum is complete
Lincoln Hall
Contractor laydown and/or trailer space for entirety of project

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SECTION 01 57 19

TEMPORARY ENVIRONMENTAL CONTROLS
11/15

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC)

6 NYCRR 370-374	Hazardous Waste Management Regulations

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1910.120	Hazardous Waste Operations and Emergency Response
29 CFR 1910.1053	Respirable Crystalline Silica
29 CFR 1926.62	Lead
29 CFR 1926.1101	Asbestos
29 CFR 1926.1153	Respirable Crystalline Silica
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards
40 CFR 60	Standards of Performance for New Stationary Sources
40 CFR 61	National Emission Standards for Hazardous Air Pollutants
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for Source Categories
40 CFR 64	Compliance Assurance Monitoring
40 CFR 112	Oil Pollution Prevention
40 CFR 122.26	Storm Water Discharges (Applicable to State NPDES Programs, see section 123.25)
40 CFR 152	Pesticide Registration and Classification Procedures
40 CFR 152 - 186	Pesticide Programs
40 CFR 241	Guidelines for Disposal of Solid Waste
40 CFR 243	Guidelines for the Storage and Collection of Residential, Commercial, and

	Institutional Solid Waste
40 CFR 258	Subtitle D Landfill Requirements
40 CFR 260	Hazardous Waste Management System: General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 261.7	Residues of Hazardous Waste in Empty Containers
40 CFR 262	Standards Applicable to Generators of Hazardous Waste
40 CFR 262.31	Standards Applicable to Generators of Hazardous Waste-Labeling
40 CFR 262.34	Standards Applicable to Generators of Hazardous Waste-Accumulation Time
40 CFR 263	Standards Applicable to Transporters of Hazardous Waste
40 CFR 264	Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 265	Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 266	Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
40 CFR 268	Land Disposal Restrictions
40 CFR 273	Standards for Universal Waste Management
40 CFR 273.2	Standards for Universal Waste Management - Batteries
40 CFR 273.3	Standards for Universal Waste Management - Pesticides
40 CFR 273.4	Standards for Universal Waste Management - Mercury Containing Equipment
40 CFR 273.5	Standards for Universal Waste Management - Lamps
40 CFR 279	Standards for the Management of Used Oil
40 CFR 300	National Oil and Hazardous Substances Pollution Contingency Plan
40 CFR 300.125	National Oil and Hazardous Substances Pollution Contingency Plan - Notification

	and Communications
40 CFR 355	Emergency Planning and Notification
40 CFR 403	General Pretreatment Regulations for Existing and New Sources of Pollution
40 CFR 745	Lead-Based Paint Poisoning Prevention in Certain Residential Structures
40 CFR 761	Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions
49 CFR 171	General Information, Regulations, and Definitions
49 CFR 172	Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements
49 CFR 173	Shippers - General Requirements for Shipments and Packagings
49 CFR 178	Specifications for Packagings

1.2 DEFINITIONS

1.2.1 Class I and II Ozone Depleting Substance (ODS)

Class I ODS is defined in Section 602(a) of The Clean Air Act. A list of Class I ODS can be found on the EPA website at the following weblink. https://www.epa.gov/ozone-layer-protection/ozone-depleting-substances.

Class II ODS is defined in Section 602(s) of The Clean Air Act. A list of Class II ODS can be found on the EPA website at the following weblink. https://www.epa.gov/ozone-layer-protection/ozone-depleting-substances.

1.2.2 Contractor Generated Hazardous Waste

Contractor generated hazardous waste is materials that, if abandoned or disposed of, may meet the definition of a hazardous waste. These waste streams would typically consist of material brought on site by the Contractor to execute work, but are not fully consumed during the course of construction. Examples include, but are not limited to, excess paint thinners (i.e. methyl ethyl ketone, toluene), waste thinners, excess paints, excess solvents, waste solvents, excess pesticides, and contaminated pesticide equipment rinse water.

1.2.3 Electronics Waste

Electronics waste is discarded electronic devices intended for salvage, recycling, or disposal.

1.2.4 Environmental Pollution and Damage

Environmental pollution and damage is the presence of chemical, physical, or biological elements or agents which adversely affect human health or

welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade the environment aesthetically, culturally or historically.

1.2.5 Environmental Protection

Environmental protection is the prevention/control of pollution and habitat disruption that may occur to the environment during construction. The control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.

1.2.6 Hazardous Debris

As defined in paragraph SOLID WASTE, debris that contains listed hazardous waste (either on the debris surface, or in its interstices, such as pore structure) in accordance with 40 CFR 261. Hazardous debris also includes debris that exhibits a characteristic of hazardous waste in accordance with 40 CFR 261.

1.2.7 Hazardous Materials

Hazardous materials as defined in 49 CFR 171 and listed in 49 CFR 172.

Hazardous material is any material that: Is regulated as a hazardous material in accordance with 49 CFR 173; or requires a Safety Data Sheet (SDS) in accordance with 29 CFR 1910.120; or during end use, treatment, handling, packaging, storage, transportation, or disposal meets or has components that meet or have potential to meet the definition of a hazardous waste as defined by 40 CFR 261 Subparts A, B, C, or D. Designation of a material by this definition, when separately regulated or controlled by other sections or directives, does not eliminate the need for adherence to that hazard-specific guidance which takes precedence over this section for "control" purposes. Such material includes ammunition, weapons, explosive actuated devices, propellants, pyrotechnics, chemical and biological warfare materials, medical and pharmaceutical supplies, medical waste and infectious materials, bulk fuels, radioactive materials, and other materials such as asbestos, mercury, and polychlorinated biphenyls (PCBs).

1.2.8 Hazardous Waste

Hazardous Waste is any material that meets the definition of a solid waste and exhibit a hazardous characteristic (ignitability, corrosivity, reactivity, or toxicity) as specified in 40 CFR 261, Subpart C, or contains a listed hazardous waste as identified in 40 CFR 261, Subpart D.

1.2.9 Installation Pest Management Coordinator

Installation Pest Management Coordinator (IPMC) is the individual officially designated by the Installation Commander to oversee the Installation Pest Management Program and the Installation Pest Management Plan.

1.2.10 Land Application

Land Application means spreading or spraying discharge water at a rate

that allows the water to percolate into the soil. No sheeting action, soil erosion, discharge into storm sewers, discharge into defined drainage areas, or discharge into the "waters of the United States" must occur. Comply with federal, state, and local laws and regulations.

1.2.11 Municipal Separate Storm Sewer System (MS4) Permit

MS4 permits are those held by installations to obtain NPDES permit coverage for their stormwater discharges.

1.2.12 National Pollutant Discharge Elimination System (NPDES)

The NPDES permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

1.2.13 Oily Waste

Oily waste are those materials that are, or were, mixed with Petroleum, Oils, and Lubricants (POLs) and have become separated from that POLs. Oily wastes also means materials, including wastewaters, centrifuge solids, filter residues or sludges, bottom sediments, tank bottoms, and sorbents which have come into contact with and have been contaminated by, POLs and may be appropriately tested and discarded in a manner which is in compliance with other state and local requirements.

This definition includes materials such as oily rags, "kitty litter" sorbent clay and organic sorbent material. These materials may be land filled provided that: It is not prohibited in other state regulations or local ordinances; the amount generated is "de minimus" (a small amount); it is the result of minor leaks or spills resulting from normal process operations; and free-flowing oil has been removed to the practicable extent possible. Large quantities of this material, generated as a result of a major spill or in lieu of proper maintenance of the processing equipment, are a solid waste. As a solid waste, perform a hazardous waste determination prior to disposal. As this can be an expensive process, it is recommended that this type of waste be minimized through good housekeeping practices and employee education.

1.2.14 Pesticide

Pesticide is any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, or intended for use as a plant regulator, defoliant or desiccant.

1.2.15 Pesticide Treatment Plan

A plan for the prevention, monitoring, and control to eliminate pest infestation.

1.2.16 Pests

Pests are arthropods, birds, rodents, nematodes, fungi, bacteria, viruses, algae, snails, marine borers, snakes, weeds and other organisms (except for human or animal disease-causing organisms) that adversely affect readiness, military operations, or the well-being of personnel and animals; attack or damage real property, supplies, equipment, or vegetation; or are otherwise undesirable.

1.2.17 Project Pesticide Coordinator

The Project Pesticide Coordinator (PPC) is an individual who resides at a Civil Works Project office and who is responsible overseeing of pesticide application on project grounds.

1.2.18 Regulated Waste

Regulated waste are solid wastes that have specific additional federal, state, or local controls for handling, storage, or disposal.

1.2.19 Sediment

Sediment is soil and other debris that have eroded and have been transported by runoff water or wind.

1.2.20 Solid Waste

Solid waste is a solid, liquid, semi-solid or contained gaseous waste. A solid waste can be a hazardous waste, non-hazardous waste, or non-Resource Conservation and Recovery Act (RCRA) regulated waste. Types of solid waste typically generated at construction sites may include:

1.2.20.1 Debris

Debris is non-hazardous solid material generated during the construction, demolition, or renovation of a structure that exceeds 2.5-inch particle size that is: a manufactured object; plant or animal matter; or natural geologic material (for example, cobbles and boulders), broken or removed concrete, masonry, and rock asphalt paving; ceramics; roofing paper and shingles. Inert materials may be reinforced with or contain ferrous wire, rods, accessories and weldments. A mixture of debris and other material such as soil or sludge is also subject to regulation as debris if the mixture is comprised primarily of debris by volume, based on visual inspection.

1.2.20.2 Green Waste

Green waste is the vegetative matter from landscaping, land clearing and grubbing, including, but not limited to, grass, bushes, scrubs, small trees and saplings, tree stumps and plant roots. Marketable trees, grasses and plants that are indicated to remain, be re-located, or be re-used are not included.

1.2.20.3 Material Not Regulated As Solid Waste

Material not regulated as solid waste is nuclear source or byproduct materials regulated under the Federal Atomic Energy Act of 1954 as amended; suspended or dissolved materials in domestic sewage effluent or irrigation return flows, or other regulated point source discharges; regulated air emissions; and fluids or wastes associated with natural gas or crude oil exploration or production.

1.2.20.4 Non-Hazardous Waste

Non-hazardous waste is waste that is excluded from, or does not meet, hazardous waste criteria in accordance with 40 CFR 263.

1.2.20.5 Recyclables

Recyclables are materials, equipment and assemblies such as doors, windows, door and window frames, plumbing fixtures, glazing and mirrors that are recovered and sold as recyclable, wiring, insulated/non-insulated copper wire cable, wire rope, and structural components. It also includes commercial-grade refrigeration equipment with Freon removed, household appliances where the basic material content is metal, clean polyethylene terephthalate bottles, cooking oil, used fuel oil, textiles, high-grade paper products and corrugated cardboard, stackable pallets in good condition, clean crating material, and clean rubber/vehicle tires. Metal meeting the definition of lead contaminated or lead based paint contaminated may not be included as recyclable if sold to a scrap metal company. Paint cans that meet the definition of empty containers in accordance with 40 CFR 261.7 may be included as recyclable if sold to a scrap metal company.

1.2.20.6 Surplus Soil

Surplus soil is existing soil that is in excess of what is required for this work, including aggregates intended, but not used, for on-site mixing of concrete, mortars, and paving. Contaminated soil meeting the definition of hazardous material or hazardous waste is not included and must be managed in accordance with paragraph HAZARDOUS MATERIAL MANAGEMENT.

1.2.20.7 Scrap Metal

This includes scrap and excess ferrous and non-ferrous metals such as reinforcing steel, structural shapes, pipe, and wire that are recovered or collected and disposed of as scrap. Scrap metal meeting the definition of hazardous material or hazardous waste is not included.

1.2.20.8 Wood

Wood is dimension and non-dimension lumber, plywood, chipboard, hardboard. Treated or painted wood that meets the definition of lead contaminated or lead based contaminated paint is not included. Treated wood includes, but is not limited to, lumber, utility poles, crossties, and other wood products with chemical treatment.

1.2.21 Surface Discharge

Surface discharge means discharge of water into drainage ditches, storm sewers, creeks or "waters of the United States". Surface discharges are discrete, identifiable sources and require a permit from the governing agency. Comply with federal, state, and local laws and regulations.

1.2.22 Wastewater

Wastewater is the used water and solids from a community that flow to a treatment plant.

1.2.22.1 Stormwater

Stormwater is any precipitation in an urban or suburban area that does not evaporate or soak into the ground, but instead collects and flows into storm drains, rivers, and streams.

1.2.23 Waters of the United States

Waters of the United States means Federally jurisdictional waters, including wetlands, that are subject to regulation under Section 404 of the Clean Water Act or navigable waters, as defined under the Rivers and Harbors Act.

1.2.24 Wetlands

Wetlands are those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

1.2.25 Universal Waste

The universal waste regulations streamline collection requirements for certain hazardous wastes in the following categories: batteries, pesticides, mercury-containing equipment (for example, thermostats), and lamps (for example, fluorescent bulbs). The rule is designed to reduce hazardous waste in the municipal solid waste (MSW) stream by making it easier for universal waste handlers to collect these items and send them for recycling or proper disposal. These regulations can be found at 40 CFR 273.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Preconstruction Survey

Solid Waste Management Permit; G, RO

Regulatory Notifications; G, RO

Environmental Protection Plan; G, RO

Stormwater Pollution Prevention Plan (SWPPP); G, RO

Stormwater Notice of Intent (for NPDES coverage under the general permit for construction activities); G, RO

Dirt and Dust Control Plan; G, RO

Employee Training Records; G, RO

Environmental Manager Qualifications; G, RO

SD-06 Test Reports

Inspection Reports

Monthly Solid Waste Disposal Report; G, RO

SD-07 Certificates

Employee Training Records; G, RO

Certificate of Competency

Erosion and Sediment Control Inspector Qualifications

SD-11 Closeout Submittals

Stormwater Pollution Prevention Plan Compliance Notebook; G, RO

Stormwater Notice of Termination (for NPDES coverage under the general permit for construction activities); G, RO

Waste Determination Documentation; G, RO

Disposal Documentation for Hazardous and Regulated Waste; G, RO

Assembled Employee Training Records; G, RO

Solid Waste Management Permit; G, RO

Project Solid Waste Disposal Documentation Report; G, RO

Hazardous Waste/Debris Management; G, RO

Regulatory Notifications; G, RO

Sales Documentation; G, RO

1.4 ENVIRONMENTAL PROTECTION REQUIREMENTS

Provide and maintain, during the life of the contract, environmental protection as defined. Plan for and provide environmental protective measures to control pollution that develops during construction practice. Plan for and provide environmental protective measures required to correct conditions that develop during the construction of permanent or temporary environmental features associated with the project. Protect the environmental resources within the project boundaries and those affected outside the limits of permanent work during the entire duration of this Contract. Comply with federal, state, and local regulations pertaining to the environment, including water, air, solid waste, hazardous waste and substances, oily substances, and noise pollution.

Tests and procedures assessing whether construction operations comply with Applicable Environmental Laws may be required. Analytical work must be performed by qualified laboratories; and where required by law, the laboratories must be certified.

1.4.1 Conformance with the Environmental Management System

Perform work under this contract consistent with the policy and objectives identified in the installation's Environmental Management System (EMS). Perform work in a manner that conforms to objectives and targets of the environmental programs and operational controls identified by the EMS.

Support Government personnel when environmental compliance and EMS audits are conducted by escorting auditors at the Project site, answering questions, and providing proof of records being maintained. Provide monitoring and measurement information as necessary to address environmental performance relative to environmental, energy, and transportation management goals. In the event an EMS nonconformance or environmental noncompliance associated with the contracted services, tasks, or actions occurs, take corrective and preventative actions. In addition, employees must be aware of their roles and responsibilities under the installation EMS and of how these EMS roles and responsibilities affect work performed under the contract.

Coordinate with the installation's EMS coordinator to identify training needs associated with environmental aspects and the EMS, and arrange training or take other action to meet these needs. Provide training documentation to the Contracting Officer. The Installation Environmental Office will retain associated environmental compliance records. Make EMS Awareness training completion certificates available to Government auditors during EMS audits and include the certificates in the Employee Training Records. See paragraph EMPLOYEE TRAINING RECORDS.

1.5 QUALITY ASSURANCE

1.5.1 Preconstruction Survey and Protection of Features

This paragraph supplements the Contract Clause PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS. Prior to start of any onsite construction activities, perform a Preconstruction Survey of the project site with the Contracting Officer, and take photographs showing existing environmental conditions in and adjacent to the site. Submit a report for the record. Include in the report a plan describing the features requiring protection under the provisions of the Contract Clauses, which are not specifically identified on the drawings as environmental features requiring protection along with the condition of trees, shrubs and grassed areas immediately adjacent to the site of work and adjacent to the Contractor's assigned storage area and access route(s), as applicable. The Contractor and the Contracting Officer will sign this survey report upon mutual agreement regarding its accuracy and completeness. Protect those environmental features included in the survey report and any indicated on the drawings, regardless of interference that their preservation may cause to the work under the Contract.

1.5.2 Regulatory Notifications

Provide regulatory notification requirements in accordance with federal, state and local regulations. In cases where the Government will also provide public notification (such as stormwater permitting), coordinate with the Contracting Officer. Submit copies of regulatory notifications to the Contracting Officer at least 30 days prior to commencement of work activities. Typically, regulatory notifications must be provided for the following (this listing is not all-inclusive): demolition, renovation, NPDES defined site work, construction, removal or use of a permitted air emissions source, and remediation of controlled substances (asbestos, hazardous waste, lead paint).

1.5.3 Environmental Brief

Attend an environmental brief to be included in the preconstruction meeting. Provide the following information: types, quantities, and use of

hazardous materials that will be brought onto the installation; and types and quantities of wastes/wastewater that may be generated during the Contract. Discuss the results of the Preconstruction Survey at this time.

Prior to initiating any work on site, meet with the Contracting Officer and installation Environmental Office to discuss the proposed Environmental Protection Plan (EPP). Develop a mutual understanding relative to the details of environmental protection, including measures for protecting natural and cultural resources, required reports, required permits, permit requirements (such as mitigation measures), and other measures to be taken.

1.5.4 Environmental Manager

Appoint in writing an Environmental Manager for the project site. The Environmental Manager is directly responsible for coordinating contractor compliance with federal, state, local, and installation requirements. The Environmental Manager must ensure compliance with Hazardous Waste Program requirements (including hazardous waste handling, storage, manifesting, and disposal); implement the EPP; ensure environmental permits are obtained, maintained, and closed out; ensure compliance with Stormwater Program requirements; ensure compliance with Hazardous Materials (storage, handling, and reporting) requirements; and coordinate any remediation of regulated substances (lead, asbestos, PCB transformers). This can be a collateral position; however, the person in this position must be trained to adequately accomplish the following duties: ensure waste segregation and storage compatibility requirements are met; inspect and manage Satellite Accumulation areas; ensure only authorized personnel add wastes to containers; ensure Contractor personnel are trained in 40 CFR requirements in accordance with their position requirements; coordinate removal of waste containers; and maintain the Environmental Records binder and required documentation, including environmental permits compliance and close-out. Submit Environmental Manager Qualifications to the Contracting Officer.

1.5.5 Employee Training Records

Prepare and maintain Employee Training Records throughout the term of the contract meeting applicable 40 CFR requirements. Provide Employee Training Records in the Environmental Records Binder. Ensure every employee completes a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures compliance with federal, state and local regulatory requirements for RCRA Large Quantity Generator. Provide a Position Description for each employee, by subcontractor, based on the Davis-Bacon Wage Rate designation or other equivalent method, evaluating the employee's association with hazardous and regulated wastes. This Position Description will include training requirements as defined in 40 CFR 265 for a Large Quantity Generator facility. Submit these Assembled Employee Training Records to the Contracting Officer at the conclusion of the project, unless otherwise directed.

Train personnel to meet EPA requirements. Conduct environmental protection/pollution control meetings for personnel prior to commencing construction activities. Contact additional meetings for new personnel and when site conditions change. Include in the training and meeting agenda: methods of detecting and avoiding pollution; familiarization with statutory and contractual pollution standards; installation and care of devices, vegetative covers, and instruments required for monitoring

purposes to ensure adequate and continuous environmental protection/pollution control; anticipated hazardous or toxic chemicals or wastes, and other regulated contaminants; recognition and protection of archaeological sites, artifacts, waters of the United States, and endangered species and their habitat that are known to be in the area. Provide copy of the Erosion and Sediment Control Inspector Qualifications as defined by EPA.

1.5.5.1 Pest Control Training

Trained personnel in pest control. Conduct a pest control meeting for personnel prior to commencing construction activities. Conduct additional meetings for new personnel and when site conditions change. Include in the training and meeting agenda: methods of detecting and pest infestation; familiarization with statutory and contractual pest control standards; installation and care of devices, and instruments, if required, for monitoring purposes to ensure adequate and continuous pest control; anticipated hazardous or toxic chemicals or wastes, and other regulated contaminants; recognition and protection of waters of the United States, and endangered species and their habitat that are known to be in the area. Provide a Certificate of Competency for the personnel who will be conducting the pesticide application and management of pest control.

1.5.6 Non-Compliance Notifications

The Contracting Officer will notify the Contractor in writing of any observed noncompliance with federal, state or local environmental laws or regulations, permits, and other elements of the Contractor's EPP. After receipt of such notice, inform the Contracting Officer of the proposed corrective action and take such action when approved by the Contracting Officer. The Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. FAR 52.242-14 Suspension of Work provides that a suspension, delay, or interruption of work due to the fault or negligence of the Contractor allows for no adjustments to the contract for time extensions or equitable adjustments. In addition to a suspension of work, the Contracting Officer may use additional authorities under the contract or law.

1.6 ENVIRONMENTAL PROTECTION PLAN

The purpose of the EPP is to present an overview of known or potential environmental issues that must be considered and addressed during construction. Incorporate construction related objectives and targets from the installation's EMS into the EPP. Include in the EPP measures for protecting natural and cultural resources, required reports, and other measures to be taken. Meet with the Contracting Officer or Contracting Officer Representative to discuss the EPP and develop a mutual understanding relative to the details for environmental protection including measures for protecting natural resources, required reports, and other measures to be taken. Submit the EPP within 15 days after notice to proceed and not less than 10 days before the preconstruction meeting. Revise the EPP throughout the project to include any reporting requirements, changes in site conditions, or contract modifications that change the project scope of work in a way that could have an environmental impact. No requirement in this section will relieve the Contractor of any applicable federal, state, and local environmental protection laws and regulations. During Construction, identify, implement, and submit for approval any additional requirements to be included in the EPP. Maintain the current version onsite.

The EPP includes, but is not limited to, the following elements:

1.6.1 General Overview and Purpose

1.6.1.1 Descriptions

A brief description of each specific plan required by environmental permit or elsewhere in this Contract such as stormwater pollution prevention plan, spill control plan, solid waste management plan, contaminant prevention plan, pesticide treatment plan, a historical, archaeological, cultural resources, biological resources and wetlands plan, traffic control plan Non-Hazardous Solid Waste Disposal Plan borrowing material plan.

1.6.1.2 Duties

The duties and level of authority assigned to the person(s) on the job site who oversee environmental compliance, such as who is responsible for adherence to the EPP, who is responsible for spill cleanup and training personnel on spill response procedures, who is responsible for manifesting hazardous waste to be removed from the site (if applicable), and who is responsible for training the Contractor's environmental protection personnel.

1.6.1.3 Procedures

A copy of any standard or project-specific operating procedures that will be used to effectively manage and protect the environment on the project site.

1.6.1.4 Communications

Communication and training procedures that will be used to convey environmental management requirements to Contractor employees and subcontractors.

1.6.1.5 Contact Information

Emergency contact information contact information (office phone number, cell phone number, and e-mail address).

1.6.2 General Site Information

1.6.2.1 Drawings

Drawings showing locations of proposed temporary excavations or embankments for haul roads, stream crossings, jurisdictional wetlands, material storage areas, structures, sanitary facilities, storm drains and conveyances, and stockpiles of excess soil.

1.6.2.2 Work Area

Work area plan showing the proposed activity in each portion of the area and identify the areas of limited use or nonuse. Include measures for marking the limits of use areas, including methods for protection of features to be preserved within authorized work areas and methods to control runoff and to contain materials on site, and a traffic control plan.

1.6.2.3 Documentation

A letter signed by an officer of the firm appointing the Environmental Manager and stating that person is responsible for managing and implementing the Environmental Program as described in this contract. Include in this letter the Environmental Manager's authority to direct the removal and replacement of non-conforming work.

1.6.3 Management of Natural Resources

a. Land resources

b. Tree protection

c. Replacement of damaged landscape features

d. Temporary construction

e. Stream crossings

f. Fish and wildlife resources

g. Wetland areas

1.6.4 Protection of Historical and Archaeological Resources

a. Objectives

b. Methods

1.6.5 Stormwater Management and Control

a. Ground cover

b. Erodible soils

c. Temporary measures

(1) Structural Practices

(2) Temporary and permanent stabilization

d. Effective selection, implementation and maintenance of Best Management Practices (BMPs).

1.6.6 Protection of the Environment from Waste Derived from Contractor Operations

Control and disposal of solid and sanitary waste. Control and disposal of hazardous waste.

This item consist of the management procedures for hazardous waste to be generated. The elements of those procedures will coincide with the Installation Hazardous Waste Management Plan. The Contracting Officer will provide a copy of the Installation Hazardous Waste Management Plan. As a minimum, include the following:

a. List of the types of hazardous wastes expected to be generated

b. Procedures to ensure a written waste determination is made for appropriate wastes that are to be generated

c. Sampling/analysis plan, including laboratory method(s) that will be used for waste determinations and copies of relevant laboratory certifications

d. Methods and proposed locations for hazardous waste accumulation/storage (that is, in tanks or containers)

e. Management procedures for storage, labeling, transportation, and disposal of waste (treatment of waste is not allowed unless specifically noted)

f. Management procedures and regulatory documentation ensuring disposal of hazardous waste complies with Land Disposal Restrictions (40 CFR 268)

g. Management procedures for recyclable hazardous materials such as lead-acid batteries, used oil, and similar

h. Used oil management procedures in accordance with 40 CFR 279; Hazardous waste minimization procedures

i. Plans for the disposal of hazardous waste by permitted facilities; and Procedures to be employed to ensure required employee training records are maintained.

1.6.7 Prevention of Releases to the Environment

Procedures to prevent releases to the environment

Notifications in the event of a release to the environment

1.6.8 Regulatory Notification and Permits

List what notifications and permit applications must be made. Some permits require up to 180 days to obtain. Demonstrate that those permits have been obtained or applied for by including copies of applicable environmental permits. The EPP will not be approved until the permits have been obtained.

1.6.9 Clean Air Act Compliance

1.6.9.1 Haul Route

Submit truck and material haul routes along with a Dirt and Dust Control Plan for controlling dirt, debris, and dust on Installation roadways. As a minimum, identify in the plan the subcontractor and equipment for cleaning along the haul route and measures to reduce dirt, dust, and debris from roadways.

1.6.9.2 Pollution Generating Equipment

Identify air pollution generating equipment or processes that may require federal, state, or local permits under the Clean Air Act. Determine requirements based on any current installation permits and the impacts of the project. Provide a list of all fixed or mobile equipment, machinery or

operations that could generate air emissions during the project to the Installation Environmental Office (Air Program Manager).

1.6.9.3 Stationary Internal Combustion Engines

Identify portable and stationary internal combustion engines that will be supplied, used or serviced. Comply with 40 CFR 60 Subpart IIII, 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ, and local regulations as applicable. At minimum, include the make, model, serial number, manufacture date, size (engine brake horsepower), and EPA emission certification status of each engine. Maintain applicable records and log hours of operation and fuel use. Logs must include reasons for operation and delineate between emergency and non-emergency operation.

1.6.9.4 Refrigerants

Identify management practices to ensure that heating, ventilation, and air conditioning (HVAC) work involving refrigerants complies with 40 CFR 82 requirements. Technicians must be certified, maintain copies of certification on site, use certified equipment and log work that requires the addition or removal of refrigerant. Any refrigerant reclaimed is the property of the Government, coordinate with the Installation Environmental Office to determine the appropriate turn in location.

1.6.9.5 Air Pollution-engineering Processes

Identify planned air pollution-generating processes and management control measures (including, but not limited to, spray painting, abrasive blasting, demolition, material handling, fugitive dust, and fugitive emissions). Log hours of operations and track quantities of materials used.

1.6.9.6 Compliant Materials

Provide the Government a list of SDSs for all hazardous materials proposed for use on site. Materials must be compliant with all Clean Air Act regulations for emissions including solvent and volatile organic compound contents, and applicable National Emission Standards for Hazardous Air Pollutants requirements. The Government may alter or limit use of specific materials as needed to meet installation permit requirements for emissions.

1.7 LICENSES AND PERMITS

Obtain licenses and permits required for the construction of the project and in accordance with FAR 52.236-7 Permits and Responsibilities. Notify the Government of all general use permitted equipment the Contractor plans to use on site. This paragraph supplements the Contractor's responsibility under FAR 52.236-7 Permits and Responsibilities.

1.8 ENVIRONMENTAL RECORDS BINDER

Maintain on-site a separate three-ring Environmental Records Binder and submit at the completion of the project. Make separate parts within the binder that correspond to each submittal listed under paragraph CLOSEOUT SUBMITTALS in this section.

1.9 PESTICIDE DELIVERY, STORAGE, AND HANDLING

1.9.1 Delivery and Storage

Deliver pesticides to the site in the original, unopened containers bearing legible labels indicating the EPA registration number and the manufacturer's registered uses. Store pesticides according to manufacturer's instructions and under lock and key when unattended.

1.9.2 Handling Requirements

Formulate, treat with, and dispose of pesticides and associated containers in accordance with label directions and use the clothing and personal protective equipment specified on the labeling for use during each phases of the application. Furnish SDSs for pesticide products.

1.10 SOLID WASTE MANAGEMENT PERMIT

Provide the Contracting Officer with written notification of the quantity of anticipated solid waste or debris that is anticipated or estimated to be generated by construction. Include in the report the locations where various types of waste will be disposed or recycled. Include letters of acceptance from the receiving location or as applicable; submit one copy of the receiving location state and local Solid Waste Management Permit or license showing such agency's approval of the disposal plan before transporting wastes off Government property.

1.10.1 Monthly Solid Waste Disposal Report

Monthly, submit a solid waste disposal report to the Contracting Officer. For each waste, the report will state the classification (using the definitions provided in this section), amount, location, and name of the business receiving the solid waste.

1.11 FACILITY HAZARDOUS WASTE GENERATOR STATUS

West Point is designated as a Large Quantity Generator. All hazardous waste generated during this contract must be managed in accordance with applicable NYSDEC hazardous waste regulations and USAG Policy 26. Coordinate all Hazardous Waste Manifests with the DPW Environmental Management Division. Only authorized West Point personnel will sign Hazardous Waste Manifests as the generator. A draft copy of the HW manifest must be submitted to the Environmental Division for review and approval at least two weeks prior to pick-up.

Meet the regulatory requirements of this generator designation for any work conducted within the boundaries of this Installation. Comply with provisions of federal, state, and local regulatory requirements applicable to this generator status regarding training and storage, handling, and disposal of construction derived wastes.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 PROTECTION OF NATURAL RESOURCES

Minimize interference with, disturbance to, and damage to fish, wildlife, and plants, including their habitats. Prior to the commencement of activities, consult with the Installation Environmental Office, regarding rare species or sensitive habitats that need to be protected. The protection of rare, threatened, and endangered animal and plant species identified, including their habitats, is the Contractor's responsibility.

Preserve the natural resources within the project boundaries and outside the limits of permanent work. Restore to an equivalent or improved condition upon completion of work that is consistent with the requirements of the Installation Environmental Office or as otherwise specified. Confine construction activities to within the limits of the work indicated or specified.

3.1.1 Flow Ways

Do not alter water flows or otherwise significantly disturb the native habitat adjacent to the project and critical to the survival of fish and wildlife, except as specified and permitted.

3.1.2 Vegetation

Except in areas to be cleared, do not remove, cut, deface, injure, or destroy trees or shrubs without the Contracting Officer's permission. Do not fasten or attach ropes, cables, or guys to existing nearby trees for anchorages unless authorized by the Contracting Officer. Where such use of attached ropes, cables, or guys is authorized, the Contractor is responsible for any resultant damage.

Protect existing trees that are to remain to ensure they are not injured, bruised, defaced, or otherwise damaged by construction operations. Remove displaced rocks from uncleared areas.

3.1.3 Protection of Trees and Plants in West Point

Refer to U.S MILITARY ACADEMY SPECIFICATION, PROTECTION OF TREES AND PLANTS, attached.

a. The Contractor must engage the services of a Certified Arborist, as certified by the International Society of Arboriculture (ISA). The Certified Arborist must review the tree protection plans and determine what specific measures are necessary to comply with this specification.

b. Pre-Construction pruning: The arborist must direct or perform the cutting and trimming of branches of all trees and plant material. The cutting or trimming of lower branches, for clear access to the work site, must be accomplished prior to the start of construction.

c. Pre-Construction Tying: The arborist must direct or perform the ‘tying –in” of branches which temporarily obstruct a construction area or access to a construction site. Lower branches that could be injured by equipment must be "tied-in" using ropes or props with protective padding.

d. Pre-Construction Barricade Fencing: Following preliminary trimming or tying-in of overhanging branches, the Contractor must construct barriers

around existing trees. Barriers must be 4 foot high, orange polyethylene barricade fence supported on steel or wood posts on 6 foot centers. Barriers must be placed a minimum of ten feet (10') outside of the protected trees' outermost branches (drip line). Attached to each fence must be weather-proof signs in black on yellow stating: TREE PROTECTION ZONE--KEEP OUT. (see detail A)

e. The protection zone for other protected plants such as shrubs, must be the soil area underneath the plant's canopy. Where indicated in the plans or specifications the Contractor must place a (4") four to (6") six inch layer of wood chip mulch over soil surface to protect root zones of plants in close proximity to the work site.

f. On the lower sides of slopes where rocks are likely to roll against and injure tree trunks or bark of valuable trees, Contractor must install boards or poles lashed with rope or wire in an upright position against the trunk. (see detail B).

g. The Contractor must maintain plant material protection devices installed as part of this contract until all work on site has been completed.

h. The Contractor must be responsible for prompt corrective action if despite precautions taken a trunk or branch is damaged. Removal of loose bark and cutting of the bark edge to a streamlined shape around the wound area must be accomplished prior to close of business on the day the injury occurred. (see detail C)

i. "Tree wound" coatings are not to be applied without the approval of the Contracting Officer. The acceptable tree wound coating must be ETISSO Lac Balsam or equivalent.

j. The Contractor must repair injuries, at his own expense, to trees or plant material, bark, limbs and roots damaged by the construction operation. All repairs must be performed by or under the direction of a Certified Arborist. The use of climbing spurs or spikes on protected trees is not permitted.

k. Mutilated cuts made to roots during excavation must be re-cut with the appropriate horticultural tool(s), making oblique cuts facing away from the soil surface. (see detail D)

l. All traffic must be controlled away from all protected trees and other plant material. Protective devices, signs or other objects must not be fastened directly to trees or plant material. Trees must not be used as temporary utility poles or for anchorage. The Contractor must not permit parking, movement or storage or any vehicle or equipment near trees which are to be protected or are adjacent to the job site. Should violations occur the Contractor must be required at his own expense, to install additional fencing to eliminate further encroachment.

m. Equipment must not be parked or stored within a root protection zone. Material stockpiles must not be located within a root protection zone.

n. Trees or other plants damaged by the Contractor must be replaced at Contractor expense. The Contractor must not remove damaged plant material without prior approval of the Contracting Officer. Replacement trees and trees must be of like species, variety, and size. Replacements must be guaranteed for one year from date of planting.

o. Where replacement is not feasible, the Contracting Officer will secure monetary compensation from the Contractor. The Contracting Officer will determine the replacement compensation costs based on the most current edition of the Council of Tree and Landscape Appraisers (CTLA) "Guide for Plant Appraisal".

3.1.4 Streams

Stream crossings must allow movement of materials or equipment without violating water pollution control standards of the federal, state, and local governments. Construction of stream crossing structures must be in compliance with any required permits including, but not limited to, Clean Water Act Section 404, and Section 401 Water Quality.

The Contracting Officer's approval and appropriate permits are required before any equipment will be permitted to ford live streams. In areas where frequent crossings are required, install temporary culverts or bridges. Obtain Contracting Officer's approval prior to installation. Remove temporary culverts or bridges upon completion of work, and repair the area to its original condition unless otherwise required by the Contracting Officer.

3.2 STORMWATER

Do not discharge stormwater from construction sites to the sanitary sewer. If the water is noted or suspected of being contaminated, it may only be released to the storm drain system if the discharge is specifically permitted. Obtain authorization in advance from the Installation Environmental Office for any release of contaminated water.

3.2.1 Construction General Permit

Provide a Construction General Permit as required by 40 CFR 122.26. Under the terms and conditions of the permit, install, inspect, maintain BMPs, prepare stormwater erosion and sediment control inspection reports, and submit SWPPP inspection reports. Maintain construction operations and management in compliance with the terms and conditions of the general permit for stormwater discharges from construction activities.

3.2.1.1 Stormwater Pollution Prevention Plan

Submit a project-specific Stormwater Pollution Prevention Plan (SWPPP) to the Contracting Officer for approval, prior to the commencement of work. The SWPPP must meet the requirements of 40 CFR 122.26 and the EPA General Permit for stormwater discharges from construction sites.

Include the following:

a. Comply with terms of the EPA general permit for stormwater discharges from construction activities. Prepare SWPPP in accordance with EPA requirements. Use EPA guide Developing your Stormwater Pollution Prevention Plan located at https://www.epa.gov/npdes/developing-stormwater-pollution-prevention-plan-swppp to prepare the SWPPP.

b. Select applicable BMPs from EPA Fact Sheets located at https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater#constr or in accordance with applicable state or local

requirements.

c. Include a completed copy of the Notice of Intent, BMP Inspection Report Template, and Stormwater Notice of Termination, except for the effective date.

3.2.1.2 Stormwater Notice of Intent for Construction Activities

Prepare and submit the Notice of Intent for NPDES coverage under the general permit for construction activities to the Contracting Officer for review and approval.

Submit the approved NOI and appropriate permit fees onto the appropriate federal or state agency for approval. No land disturbing activities may commence without permit coverage. Maintain an approved copy of the SWPPP at the onsite construction office, and continually update as regulations require, reflecting current site conditions.

3.2.1.3 Inspection Reports

Submit "Inspection Reports" to the Contracting Officer in accordance with EPA Construction General Permit.

3.2.1.4 Stormwater Pollution Prevention Plan Compliance Notebook

Create and maintain a three ring binder of documents that demonstrate compliance with the Construction General Permit. Include a copy of the permit Notice of Intent, proof of permit fee payment, SWPPP and SWPPP update amendments, inspection reports and related corrective action records, copies of correspondence with the EPA, and a copy of the permit Notice of Termination in the binder. At project completion, the notebook becomes property of the Government. Provide the compliance notebook to the Contracting Officer.

3.2.1.5 Stormwater Notice of Termination for Construction Activities

Submit a Notice of Termination to the Contracting Officer for approval once construction is complete and final stabilization has been achieved on all portions of the site for which the permittee is responsible. Once approved, submit the Notice of Termination to the appropriate state or federal agency.

3.2.2 Erosion and Sediment Control Measures

Provide erosion and sediment control measures in accordance with state and local laws and regulations. Preserve vegetation to the maximum extent practicable.

Erosion control inspection reports may be compiled as part of a stormwater pollution prevention plan inspection reports.

3.2.2.1 Erosion Control

Prevent erosion by mulching, Geotextiles,. Stabilize slopes by sodding, seeding, or such combination of these methods necessary for effective erosion control. Use of hay bales is prohibited.

3.2.2.2 Sediment Control Practices

Implement sediment control practices to divert flows from exposed soils, temporarily store flows, or otherwise limit runoff and the discharge of

pollutants from exposed areas of the site. Implement sediment control practices prior to soil disturbance and prior to creating areas with concentrated flow, during the construction process to minimize erosion and sediment laden runoff. Include the following devices: silt fence, storm drain inlet protection, Location and details of installation and construction are indicated on the drawings.

3.2.3 Work Area Limits

Mark the areas that need not be disturbed under this Contract prior to commencing construction activities. Mark or fence isolated areas within the general work area that are not to be disturbed. Protect monuments and markers before construction operations commence. Where construction operations are to be conducted during darkness, any markers must be visible in the dark. Personnel must be knowledgeable of the purpose for marking and protecting particular objects.

3.2.4 Contractor Facilities and Work Areas

Place field offices, staging areas, stockpile storage, and temporary buildings in areas designated on the drawings or as directed by the Contracting Officer. Move or relocate the Contractor facilities only when approved by the Government. Provide erosion and sediment controls for onsite borrow and spoil areas to prevent sediment from entering nearby waters. Control temporary excavation and embankments for plant or work areas to protect adjacent areas.

3.2.5 Municipal Separate Storm Sewer System (MS4) Management

Comply with the Installation's MS4 permit requirements.

3.3 SURFACE AND GROUNDWATER

3.3.1 Cofferdams, Diversions, and Dewatering

Construction operations for dewatering, removal of cofferdams, tailrace excavation, and tunnel closure must be constantly controlled to maintain compliance with existing state water quality standards and designated uses of the surface water body. Comply with the State of New York water quality standards and anti-degradation provisions . Do not discharge excavation ground water to the sanitary sewer, storm drains, or to surface waters without prior specific authorization in writing from the Installation Environmental Office. Discharge of hazardous substances will not be permitted under any circumstances. Use sediment control BMPs to prevent construction site runoff from directly entering any storm drain or surface waters.

If the construction dewatering is noted or suspected of being contaminated, it may only be released to the storm drain system if the discharge is specifically permitted. Obtain authorization for any contaminated groundwater release in advance from the Installation Environmental Officer and the federal or state authority, as applicable. Discharge of hazardous substances will not be permitted under any circumstances.

3.3.2 Waters of the United States

Do not enter, disturb, destroy, or allow discharge of contaminants into waters of the United States.

3.4 EXCESS SOIL/FILL MATERIAL REUSED ON THE CONSTRUCTION SITE

If soil/fill material is to be reused on the construction site, sampling is not required unless contamination is suspected or otherwise directed. Sampling and analysis will be required if there is visual evidence of a spill, odors, field instrument readings, debris or other indications that the soil is contaminated.

3.5 PROTECTION OF CULTURAL RESOURCES

Should historical/archaeological items be found during construction the Contractor must comply with 'USMA CRM STANDARD OPERATION PROCEEDURE 16-1 FOR THE PROTECTION OF ARCHAEOLOGICAL OR HISTORIC ARTIFACTS. For human remains discoveries, refer to USMA CRM Standard Operating Procedure 15: Procedures For Discoveries Of Human Remains During Archaeological Excavations, attached.

3.5.1 Archaeological Resources

If, during excavation or other construction activities, any previously unidentified or unanticipated historical, archaeological, and cultural resources are discovered or found, activities that may damage or alter such resources will be suspended. Resources covered by this paragraph include, but are not limited to: any human skeletal remains or burials; artifacts; shell, midden, bone, charcoal, or other deposits; rock or coral alignments, pavings, wall, or other constructed features; and any indication of agricultural or other human activities. Upon such discovery or find, immediately notify the Contracting Officer so that the appropriate authorities may be notified and a determination made as to their significance and what, if any, special disposition of the finds should be made. Cease all activities that may result in impact to or the destruction of these resources. Secure the area and prevent employees or other persons from trespassing on, removing, or otherwise disturbing such resources. The Government retains ownership and control over archaeological resources.

3.5.2 Historical Resources

Existing historical resources within the work area are shown on the drawings. Protect these resources and be responsible for their preservation during the life of the Contract.

3.6 AIR RESOURCES

Equipment operation, activities, or processes will be in accordance with 40 CFR 64 and state air emission and performance laws and standards.

3.6.1 Preconstruction Air Permits

Notify the Air Program Manager, through the Contracting Officer, at least 6 months prior to bringing equipment, assembled or unassembled, onto the Installation, so that air permits can be secured. Necessary permitting time must be considered in regard to construction activities. Clean Air Act (CAA) permits must be obtained prior to bringing equipment, assembled or unassembled, onto the Installation.

3.6.2 Oil or Dual-fuel Boilers and Furnaces

Provide product data and details for new, replacement, or relocated fuel fired boilers, heaters, or furnaces to the Installation Environmental Office (Air Program Manager) through the Contracting Officer. Data to be reported include: equipment purpose (water heater, building heat, process), manufacturer, model number, serial number, fuel type (oil type, gas type) size (MMBTU heat input). Provide in accordance with paragraph PRECONSTRUCTION AIR PERMITS.

3.6.3 Burning

Burning is prohibited on the Government premises.

3.6.4 Class I and II ODS Prohibition

Class I and II ODS are Government property and must be returned to the Government for appropriate management. Coordinate with the Installation Environmental Office to determine the appropriate location for turn in of all reclaimed refrigerant.

3.6.5 Accidental Venting of Refrigerant

Accidental venting of a refrigerant is a release and must be reported immediately to the Contracting Officer.

3.6.6 EPA Certification Requirements

Heating and air conditioning technicians must be certified through an EPA-approved program. Maintain copies of certifications at the employees' places of business; technicians must carry certification wallet cards, as provided by environmental law.

3.6.7 Dust Control

Keep dust down at all times, including during nonworking periods. Dry power brooming will not be permitted. Instead, use vacuuming, wet mopping, wet sweeping, or wet power brooming. Air blowing will be permitted only for cleaning nonparticulate debris such as steel reinforcing bars. Only wet cutting will be permitted for cutting concrete blocks, concrete, and bituminous concrete. Do not unnecessarily shake bags of cement, concrete mortar, or plaster. Since these products contain Crystalline Silica, comply with the applicable OSHA standard, 29 CFR 1910.1053 or 29 CFR 1926.1153 for controlling exposure to Crystalline Silica Dust.

3.6.7.1 Particulates

Dust particles, aerosols and gaseous by-products from construction activities, and processing and preparation of materials (such as from asphaltic batch plants) must be controlled at all times, including weekends, holidays, and hours when work is not in progress. Maintain excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and other work areas within or outside the project boundaries free from particulates that would exceed 40 CFR 50, state, and local air pollution standards or that would cause a hazard or a nuisance. Sprinkling, chemical treatment of an approved type, baghouse, scrubbers, electrostatic precipitators, or other methods will be permitted to control particulates in the work area. Sprinkling, to be

efficient, must be repeated to keep the disturbed area damp. Provide sufficient, competent equipment available to accomplish these tasks. Perform particulate control as the work proceeds and whenever a particulate nuisance or hazard occurs. Comply with state and local visibility regulations.

3.6.7.2 Abrasive Blasting

Blasting operations cannot be performed without prior approval of the Installation Air Program Manager. The use of silica sand is prohibited in sandblasting.

Provide tarpaulin drop cloths and windscreens to enclose abrasive blasting operations to confine and collect dust, abrasive agent, paint chips, and other debris. Perform work involving removal of hazardous material in accordance with 29 CFR 1910.

3.6.8 Odors

Control odors from construction activities. The odors must be in compliance with state regulations and local ordinances and may not constitute a health hazard.

3.7 WASTE MINIMIZATION

Minimize the use of hazardous materials and the generation of waste. Include procedures for pollution prevention/ hazardous waste minimization in the Hazardous Waste Management Section of the EPP. Obtain a copy of the installation's Pollution Prevention/Hazardous Waste Minimization Plan for reference material when preparing this part of the EPP. If no written plan exists, obtain information by contacting the Contracting Officer. Describe the anticipated types of the hazardous materials to be used in the construction when requesting information.

3.7.1 Salvage, Reuse and Recycle

Identify anticipated materials and waste for salvage, reuse, and recycling. Describe actions to promote material reuse, resale or recycling. To the extent practicable, all scrap metal must be sent for reuse or recycling and will not be disposed of in a landfill.

Include the name, physical address, and telephone number of the hauler, if transported by a franchised solid waste hauler. Include the destination and, unless exempted, provide a copy of the state or local permit (cover) or license for recycling.

3.7.2 Nonhazardous Solid Waste Diversion Report

Maintain an inventory of nonhazardous solid waste diversion and disposal of construction and demolition debris. Submit a report to the Contracting Officer on the first working day after each fiscal year quarter, starting the first quarter that nonhazardous solid waste has been generated. Include the following in the report:

Construction and Demolition (C&D) Debris Disposed	_____ cubic yards tons, as appropriate
C&D Debris Recycled	_____ cubic yards tons, as appropriate
C&D Debris Composted	_____ cubic yards tons, as appropriate
Total C&D Debris Generated	_____ cubic yards tons, as appropriate
Waste Sent to Waste-To-Energy Incineration Plant (This amount should not be included in the recycled amount)	_____ cubic yards tons, as appropriate

3.8 WASTE MANAGEMENT AND DISPOSAL

3.8.1 Waste Determination Documentation

Complete a Waste Determination form (provided at the pre-construction conference) for Contractor-derived wastes to be generated. All potentially hazardous solid waste streams that are not subject to a specific exclusion or exemption from the hazardous waste regulations (e.g. scrap metal, domestic sewage) or subject to special rules, (lead-acid batteries and precious metals) must be characterized in accordance with the requirements of 40 CFR 261 or corresponding applicable state or local regulations. Base waste determination on user knowledge of the processes and materials used, and analytical data when necessary. Consult with the Installation environmental staff for guidance on specific requirements. Attach support documentation to the Waste Determination form. As a minimum, provide a Waste Determination form for the following waste (this listing is not inclusive): oil- and latex -based painting and caulking products, solvents, adhesives, aerosols, petroleum products, and containers of the original materials.

3.8.2 Solid Waste Management

3.8.2.1 Project Solid Waste Disposal Documentation Report

Provide copies of the waste handling facilities' weight tickets, receipts, bills of sale, and other sales documentation. In lieu of sales documentation, a statement indicating the disposal location for the solid waste that is signed by an employee authorized to legally obligate or bind the firm may be submitted. The sales documentation must include the receiver's tax identification number and business, EPA or state registration number, along with the receiver's delivery and business addresses and telephone numbers. For each solid waste retained for the Contractor's own use, submit the information previously described in this paragraph on the solid waste disposal report. Prices paid or received do not have to be reported to the Contracting Officer unless required by other provisions or specifications of this Contract or public law.

3.8.2.2 Control and Management of Solid Wastes

Pick up solid wastes, and place in covered containers that are regularly emptied. Do not prepare or cook food on the project site. Prevent contamination of the site or other areas when handling and disposing of wastes. At project completion, leave the areas clean. Employ segregation measures so that no hazardous or toxic waste will become co-mingled with non-hazardous solid waste. Transport solid waste off Government property and dispose of it in compliance with 40 CFR 260, state, and local requirements for solid waste disposal. A Subtitle D RCRA permitted landfill is the minimum acceptable offsite solid waste disposal option. Verify that the selected transporters and disposal facilities have the necessary permits and licenses to operate. Solid waste disposal offsite must comply with most stringent local, state, and federal requirements, including 40 CFR 241, 40 CFR 243, and 40 CFR 258.

Manage hazardous material used in construction, including but not limited to, aerosol cans, waste paint, cleaning solvents, contaminated brushes, and used rags, in accordance with 49 CFR 173.

3.8.2.3 Excess Soils

All excess soil/fill material generated by the project must be analyzed prior to being shipped off site for reuse or disposal. Soil/fill material shall not be shipped off site without written approval from the West Point Environmental Management Division.

Excess soil/fill material may be stockpiled until the end of the project, then reused on site as much as possible prior to sampling and analysis for residual soil to be disposed. Store in a manner that prevents rain from infiltrating the soil matrix and preventing runoff into the surrounding soil or pavement (for example, store the soil on top of plastic sheets and covered with plastic sheets or store in lined, covered dumpsters). If the soil is going to be relocated or disposed outside the construction site, sampling and analysis is required.

3.8.2.3.1 Excess Soil/Fill Material Exported from West Point

Excess soil/fill will be evaluated for Beneficial Use Determinations (BUDS) using the Revised Part 6 NYCRR 360 Series. Excess soil for reuse shall be analyzed in accordance with 6 NYCRR 360.13. The sampling program must be designed and implemented by a qualified environmental professional Sampling frequency shall be in accordance with the Table at 6 NYCRR 360.13 (e). The analysis report shall include a description of the soil stockpile including the location of origin and composition, estimated quantity of soil being characterized, and a sketch showing where the samples were collected. The report shall identify all exceed

3.8.3 Control and Management of Hazardous Waste

Do not dispose of hazardous waste on Government property. Do not discharge any waste to a sanitary sewer, storm drain, or to surface waters or conduct waste treatment or disposal on Government property without written approval of the Contracting Officer.

3.8.3.1 Hazardous Waste/Debris Management

Identify construction activities that will generate hazardous waste or debris. Provide a documented waste determination for resultant waste

streams. Identify, label, handle, store, and dispose of hazardous waste or debris in accordance with federal, state, and local regulations, including 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, 40 CFR 265, 40 CFR 266, and 40 CFR 268.

Manage hazardous waste in accordance with the approved Hazardous Waste Management Section of the EPP. Store hazardous wastes in approved containers in accordance with 49 CFR 173 and 49 CFR 178. Hazardous waste generated within the confines of Government facilities is identified as being generated by the Government. Prior to removal of any hazardous waste from Government property, hazardous waste manifests must be signed by personnel from the Installation Environmental Office. Do not bring hazardous waste onto Government property. Provide the Contracting Officer with a copy of waste determination documentation for any solid waste streams that have any potential to be hazardous waste or contain any chemical constituents listed in 40 CFR 372-SUBPART D.

Provide waste characterization, profile sheets, waste analysis results and a draft copy of hazardous waste manifests to the Environmental Management Division for review at least 5 days prior to the waste shipping date.

3.8.3.2 Waste Storage/Satellite Accumulation/90 Day Storage Areas

Accumulate hazardous waste at satellite accumulation points and in compliance with 40 CFR 262.34 and applicable state or local regulations. Individual waste streams will be limited to 55 gallons of accumulation (or 1 quart for acutely hazardous wastes). If the Contractor expects to generate hazardous waste at a rate and quantity that makes satellite accumulation impractical, the Contractor may request a temporary 90 day accumulation point be established. Submit a request in writing to the Contracting Officer and provide the following information (Attach Site Plan to the Request):

Contract Number	
Contractor	
Haz/Waste or Regulated Waste POC	
Phone Number	
Type of Waste	
Source of Waste	
Emergency POC	
Phone Number	
Location of the Site	

Attach a Waste Determination form for the expected waste streams. Allow 10 working days for processing this request. Additional compliance requirements (e.g. training and contingency planning) that may be required are the responsibility of the Contractor. Barricade the designated area where waste is being stored and post a sign identifying as follows:

"DANGER - UNAUTHORIZED PERSONNEL KEEP OUT"

3.8.3.3 Hazardous Waste Disposal

3.8.3.3.1 Responsibilities for Contractor's Disposal

Provide hazardous waste manifest to the Installations Environmental Office for review, approval, and signature prior to shipping waste off Government property.

3.8.3.3.1.1 Services

Provide service necessary for the final treatment or disposal of the hazardous material or waste in accordance with 40 CFR 260, local, and state, laws and regulations, and the terms and conditions of the Contract within 60 days after the materials have been generated. These services include necessary personnel, labor, transportation, packaging, detailed analysis (if required for disposal or transportation, include manifesting or complete waste profile sheets, equipment, and compile documentation).

3.8.3.3.1.2 Samples

Obtain a representative sample of the material generated for each job done to provide waste stream determination.

3.8.3.3.1.3 Analysis

Analyze each sample taken and provide analytical results to the Contracting Officer. See paragraph WASTE DETERMINATION DOCUMENTATION.

3.8.3.3.1.4 Labeling

Determine the Department of Transportation's (DOT's) proper shipping names for waste (each container requiring disposal) and demonstrate to the Contracting Officer how this determination is developed and supported by the sampling and analysis requirements contained herein. Label all containers of hazardous waste with the words "Hazardous Waste" or other words to describe the contents of the container in accordance with 40 CFR 262.31 and applicable state or local regulations.

3.8.3.4 Universal Waste Management

Manage the following categories of universal waste in accordance with federal, state, and local requirements and installation instructions:

a. Batteries as described in 40 CFR 273.2

b. Lamps as described in 40 CFR 273.5

c. Mercury-containing equipment as described in 40 CFR 273.4

d. Pesticides as described in 40 CFR 273.3

Mercury is prohibited in the construction of this facility, unless specified otherwise, and with the exception of mercury vapor lamps and fluorescent lamps. Dumping of mercury-containing materials and devices such as mercury vapor lamps, fluorescent lamps, and mercury switches, in rubbish containers is prohibited. Remove without breaking, pack to prevent breakage, and transport out of the activity in an unbroken condition for disposal as directed.

3.8.3.5 Electronics End-of-Life Management

Recycle or dispose of electronics waste, including, but not limited to, used electronic devices such computers, monitors, hard-copy devices, televisions, mobile devices, in accordance with 40 CFR 260-262, state, and local requirements, and installation instructions.

3.8.3.6 Disposal Documentation for Hazardous and Regulated Waste

Contact the Contracting Officer for the facility RCRA identification number that is to be used on each manifest.

3.8.4 Releases/Spills of Oil and Hazardous Substances

3.8.4.1 Response and Notifications

Exercise due diligence to prevent, contain, and respond to spills of hazardous material, hazardous substances, hazardous waste, sewage, regulated gas, petroleum, lubrication oil, and other substances regulated in accordance with 40 CFR 300. Maintain spill cleanup equipment and materials at the work site. In the event of a spill, take prompt, effective action to stop, contain, curtail, or otherwise limit the amount, duration, and severity of the spill/release. In the event of any releases of oil and hazardous substances, chemicals, or gases; immediately (within 15 minutes) notify the Installation Fire Department, the Installation Command Duty Officer, the Installation Environmental Office, the Contracting Officer and the state or local authority.

Submit verbal and written notifications as required by the federal (40 CFR 300.125 and 40 CFR 355), state, local regulations and instructions. Provide copies of the written notification and documentation that a verbal notification was made within 20 days. Spill response must be in accordance with 40 CFR 300 and applicable state and local regulations. Contain and clean up these spills without cost to the Government.

3.8.4.2 Clean Up

Clean up hazardous and non-hazardous waste spills. Reimburse the Government for costs incurred including sample analysis materials, clothing, equipment, and labor if the Government will initiate its own spill cleanup procedures, for Contractor- responsible spills, when: Spill cleanup procedures have not begun within one hour of spill discovery/occurrence; or, in the Government's judgment, spill cleanup is inadequate and the spill remains a threat to human health or the environment.

3.8.5 Mercury Materials

Immediately report to the Environmental Office and the Contracting Officer instances of breakage or mercury spillage. Clean mercury spill area to the satisfaction of the Contracting Officer.

Do not recycle a mercury spill cleanup; manage it as a hazardous waste for disposal.

3.8.6 Wastewater

3.8.6.1 Disposal of Wastewater

Disposal of wastewater must be as specified below.

3.8.6.1.1 Treatment

Do not allow wastewater from construction activities, such as onsite material processing, concrete curing, foundation and concrete clean-up, water used in concrete trucks, and forms to enter water ways or to be discharged prior to being treated to remove pollutants. Dispose of the construction- related waste water off-Government property in accordance with 40 CFR 403, state, regional, and local laws and regulations. by collecting and placing it in a retention pond where suspended material can be settled out or the water can evaporate to separate pollutants from the water. The site for the retention pond must be coordinated and approved with the Contracting Officer. The residue left in the pond prior to completion of the project must be removed, tested, and disposed of off-Government property in accordance with federal, state, and local laws and regulations. Backfill the area to the original grade, top-soiled, and seeded or sodded..

3.8.6.1.2 Surface Discharge

For discharge of ground water, Surface discharge in accordance with federal, state, and local laws and regulations.

3.8.6.1.3 Land Application

Water generated from the flushing of lines after disinfection or disinfection in conjunction with hydrostatic testing must be discharged into the sanitary sewer with prior approval and notification to the Wastewater Treatment Plant's Operator.

3.9 HAZARDOUS MATERIAL MANAGEMENT

Include hazardous material control procedures in the Safety Plan, in accordance with Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS. Address procedures and proper handling of hazardous materials, including the appropriate transportation requirements. Do not bring hazardous material onto Government property that does not directly relate to requirements for the performance of this contract. Submit an SDS and estimated quantities to be used for each hazardous material to the Contracting Officer prior to bringing the material on the installation. Typical materials requiring SDS and quantity reporting include, but are not limited to, oil and latex based painting and caulking products, solvents, adhesives, aerosol, and petroleum products. Use hazardous materials in a manner that minimizes the amount of hazardous waste generated. Containers of hazardous materials must have National Fire Protection Association labels or their equivalent. Certify that hazardous materials removed from the site are hazardous materials and do not meet the definition of hazardous waste, in accordance with 40 CFR 261.

3.10 PREVIOUSLY USED EQUIPMENT

Clean previously used construction equipment prior to bringing it onto the project site. Equipment must be free from soil residuals, egg deposits from plant pests, noxious weeds, and plant seeds. Consult with the U.S.

Department of Agriculture jurisdictional office for additional cleaning requirements.

3.11 CONTROL AND MANAGEMENT OF ASBESTOS-CONTAINING MATERIAL (ACM)

Portions of the building that will be disturbed by this renovation must be inspected by EPA certified inspectors to determine if asbestos is present. If asbestos is present it must be handled in accordance with EPA 40 CFR 61, and OSHA 29 CFR 1926.1101 regulations. Manage and dispose of asbestos-containing waste in accordance with 40 CFR 61. Refer to Section 02 82 00 ASBESTOS REMEDIATION. Manifest asbestos-containing waste and provide the manifest to the Contracting Officer. Notifications to the state and Installation Air Program Manager are required before starting any asbestos work.

3.12 CONTROL AND MANAGEMENT OF LEAD-BASED PAINT (LBP)

Painted surfaces that will be disturbed by this renovation must be analyzed for lead-based paint (LBP) or assumed to contain lead. Any activities that will disturb LBP must be conducted in accordance with OSHA 29 CFR 1926.62 and Army (AR 420-1) regulations. Lead debris from housing renovations is exempt from hazardous waste requirements. Although excluded from hazardous waste regulations, LBP waste must be handled safely. Collect paint chips, dust, dirt, and rubble in plastic bags for disposal. Larger architectural debris should be stored in dumpsters or other containers. Waste solvents and sludge's from de-leading should be stored in sealed containers in good condition. Containers should be stored in a secure location that provides secondary containment and protection from the weather. Department of Transportation (DOT) requirements still apply.

Accumulation and disposal of hazardous waste must be in accordance with EPA, NYSDEC, and USAG Policy 26. Any wastes considered hazardous materials must be shipped in accordance with DOT requirements. Manage and dispose of lead-contaminated waste in accordance with 40 CFR 745 and Section 02 83 00 LEAD REMEDIATION. Manifest any lead-contaminated waste and provide the manifest to the Contracting Officer.

3.13 CONTROL AND MANAGEMENT OF POLYCHLORINATED BIPHENYLS (PCBS)

Manage and dispose of PCB-contaminated waste in accordance with NYSDEC regulations 6 NYCRR 370-374.

3.14 CONTROL AND MANAGEMENT OF LIGHTING BALLAST AND LAMPS CONTAINING PCBS

New York regulates waste PCB's as a hazardous waste. Any waste PCB's generated from this project must be managed in accordance with applicable NYSDEC hazardous waste regulations and USAG Policy 26. Manage and dispose of contaminated waste in accordance with 40 CFR 761.

3.15 MILITARY MUNITIONS

In the event military munitions, as defined in 40 CFR 260, are discovered or uncovered, immediately stop work in that area and immediately inform the Contracting Officer and UXO Contractor, and contact the West Point Military Police (845-938-3333) followed by immediately contacting the Contracting Officer.

3.16 PETROLEUM, OIL, LUBRICANT (POL) STORAGE AND FUELING

POL products include flammable or combustible liquids, such as gasoline, diesel, lubricating oil, used engine oil, hydraulic oil, mineral oil, and cooking oil. Store POL products and fuel equipment and motor vehicles in a manner that affords the maximum protection against spills into the environment. Manage and store POL products in accordance with EPA 40 CFR 112, and other federal, state, regional, and local laws and regulations. Use secondary containments, dikes, curbs, and other barriers, to prevent POL products from spilling and entering the ground, storm or sewer drains, stormwater ditches or canals, or navigable waters of the United States. Describe in the EPP (see paragraph ENVIRONMENTAL PROTECTION PLAN) how POL tanks and containers must be stored, managed, and inspected and what protections must be provided. Storage of fuel on the project site must be in accordance with EPA, state, and local laws and regulations and paragraph OIL STORAGE INCLUDING FUEL TANKS.

3.16.1 Used Oil Management

Manage used oil generated on site in accordance with 40 CFR 279. Determine if any used oil generated while onsite exhibits a characteristic of hazardous waste. Used oil containing 1,000 parts per million of solvents is considered a hazardous waste and disposed of at the Contractor's expense. Used oil mixed with a hazardous waste is also considered a hazardous waste. Dispose in accordance with paragraph HAZARDOUS WASTE DISPOSAL.

3.16.2 Oil Storage Including Fuel Tanks

Provide secondary containment and overfill protection for oil storage tanks. A berm used to provide secondary containment must be of sufficient size and strength to contain the contents of the tanks plus 5 inches freeboard for precipitation. Construct the berm to be impervious to oil for 72 hours that no discharge will permeate, drain, infiltrate, or otherwise escape before cleanup occurs. Use drip pans during oil transfer operations; adequate absorbent material must be onsite to clean up any spills and prevent releases to the environment. Cover tanks and drip pans during inclement weather. Provide procedures and equipment to prevent overfilling of tanks. If tanks and containers with an aggregate aboveground capacity greater than 1320 gallons will be used onsite (only containers with a capacity of 55 gallons or greater are counted), provide and implement a SPCC plan meeting the requirements of 40 CFR 112. Do not bring underground storage tanks to the installation for Contractor use during a project. Submit the SPCC plan to the Contracting Officer for approval.

Monitor and remove any rainwater that accumulates in open containment dikes or berms. Inspect the accumulated rainwater prior to draining from a containment dike to the environment, to determine there is no oil sheen present.

3.17 INADVERTENT DISCOVERY OF PETROLEUM-CONTAMINATED SOIL OR HAZARDOUS WASTES

If petroleum-contaminated soil, or suspected hazardous waste is found during construction that was not identified in the Contract documents, immediately notify the Contracting Officer. Do not disturb this material until authorized by the Contracting Officer.

3.18 PEST MANAGEMENT

In order to minimize impacts to existing fauna and flora, coordinate with the Installation Pest Management Coordinator (IPMC) or Project Pesticide Coordinator (PPC), through the Contracting Officer, at the earliest possible time prior to pesticide application. Discuss integrated pest management strategies with the PPC and receive concurrence from the PPC through the Contracting Officer prior to the application of any pesticide associated with these specifications. Provide Installation Project Office Pest Management personnel the opportunity to be present at meetings concerning treatment measures for pest or disease control and during application of the pesticide. The use and management of pesticides are regulated under 40 CFR 152 - 186.

3.18.1 Application

Apply pesticides using a state-certified pesticide applicator in accordance with EPA label restrictions and recommendation. The certified applicator must wear clothing and personal protective equipment as specified on the pesticide label. The Contracting Officer will designate locations for water used in formulating. Do not allow the equipment to overflow. Inspect equipment for leaks, clogging, wear, or damage and repair prior to application of pesticide.

3.18.2 Pesticide Treatment Plan

Include and update a pesticide treatment plan, as information becomes available. Include in the plan the sequence of treatment, dates, times, locations, pesticide trade name, EPA registration numbers, authorized uses, chemical composition, formulation, original and applied concentration, application rates of active ingredient (that is, pounds of active ingredient applied), equipment used for application and calibration of equipment. Comply with 40 CFR 152-189, state, regional, and local pest management record-keeping and reporting requirements as well as any additional Installation Project Office specific requirements in conformance with DA AR 200-1 Chapter 5, Pest Management, Section 5-4 "Program requirements" for data required to be reported to the Installation.

3.19 CHLORDANE

Evaluate excess soils and concrete foundation debris generated during the demolition of housing units or other wooden structures for the presence of chlordane or other pesticides prior to reuse or final disposal.

3.20 SOUND INTRUSION

Make the maximum use of low-noise emission products, as certified by the EPA. Blasting or use of explosives are not permitted without written permission from the Contracting Officer, and then only during the designated times.

Keep construction activities under surveillance and control to minimize environment damage by noise.

3.21 POST CONSTRUCTION CLEANUP

Clean up areas used for construction in accordance with Contract Clause:

"Cleaning Up". Unless otherwise instructed in writing by the Contracting Officer, remove traces of temporary construction facilities such as haul roads, work area, structures, foundations of temporary structures, stockpiles of excess or waste materials, and other vestiges of construction prior to final acceptance of the work. Grade parking area and similar temporarily used areas to conform with surrounding contours.

-- End of Section --

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NOTE TO SPEC. WRITER: *Incorporation or tailoring this specification into a construction contract is insufficient. The specification by itself will not identify the individual or groups of plants that are to be protected. Site plans with the location of those plants to be retained and protected, must accompany the specification. Development of this site plan requires an inspection by a professional having the ability to identify plants which warrant protection. The professional is often an Arborist or a Horticulturist.*

U.S MILITARY ACADEMY SPECIFICATION

PROTECTION OF TREES AND PLANTS REVISED 8 FEB. 2007

SC.10.1 The Contractor shall preserve and protect the tops, trunk and root systems of those trees and plant materials indicated on the plan number_____.

SC.10.2 The Contractor shall engage the services of a Certified Arborist, as certified by the International Society of Arboriculture (ISA). The Certified Arborist shall review the tree protection plans and determine what specific measures are necessary to comply with this specification.

SC.10.2.1 Pre-Construction pruning: The arborist shall direct or perform the cutting and trimming of branches of all trees and plant material. The cutting or trimming of lower branches, for clear access to the work site, shall be accomplished prior to the start of construction.

SC. 10.3 Pre-Construction Tying: The arborist shall direct or perform the 'tying –in" of branches which temporarily obstruct a construction area or access to a construction site. Lower branches that could be injured by equipment shall be "tied-in" using ropes or props with protective padding.

SC.10.4 Pre-Construction Barricade Fencing: Following preliminary trimming or tying-in of overhanging branches, the Contractor shall construct barriers around existing trees as designated on plan number_____. Barriers shall be 4 foot high, orange polyethylene barricade fence supported on steel or wood posts on 6 foot centers. Barriers shall be placed a minimum of ten feet (10') outside of the protected trees' outermost branches (drip line). Attached to each fence shall be weather-proof signs in black on yellow stating: **TREE PROTECTION ZONE--KEEP OUT.** (see detail A)

SC.10.4.1 The protection zone for other protected plants such as shrubs, shall be the soil area underneath the plant's canopy. Where indicated in the plans or specifications the Contractor shall place a (4") four to (6") six inch layer of wood chip mulch over soil surface to protect root zones of plants in close proximity to the work site.

SC.10.4.1.1 On the lower sides of slopes where rocks are likely to roll against and injure tree trunks or bark of valuable trees, Contractor shall install boards or poles lashed with rope or wire in an upright position against the trunk. (see detail B).

SC.10.4.1.2 The Contractor shall maintain plant material protection devices installed as part of this contract until all work on site has been completed.

SC.10.5 The Contractor shall be responsible for prompt corrective action if despite precautions taken a trunk or branch is damaged. Removal of loose bark and cutting of the bark edge to a streamlined shape around the wound area shall be accomplished prior to close of business on the day the injury occurred. (see detail C)

SC.10.5.1 "Tree wound" coatings are **not** to be applied without the approval of the Contracting Officer. The acceptable tree wound coating shall be ETISSO *Lac Balsam* or equivalent.

SC.10.5.1.1 The Contractor shall repair injuries, at his own expense, to trees or plant material, bark, limbs and roots damaged by the construction operation. All repairs shall be performed by or under the direction of a Certified Arborist. The use of climbing spurs or spikes on protected trees is not permitted.

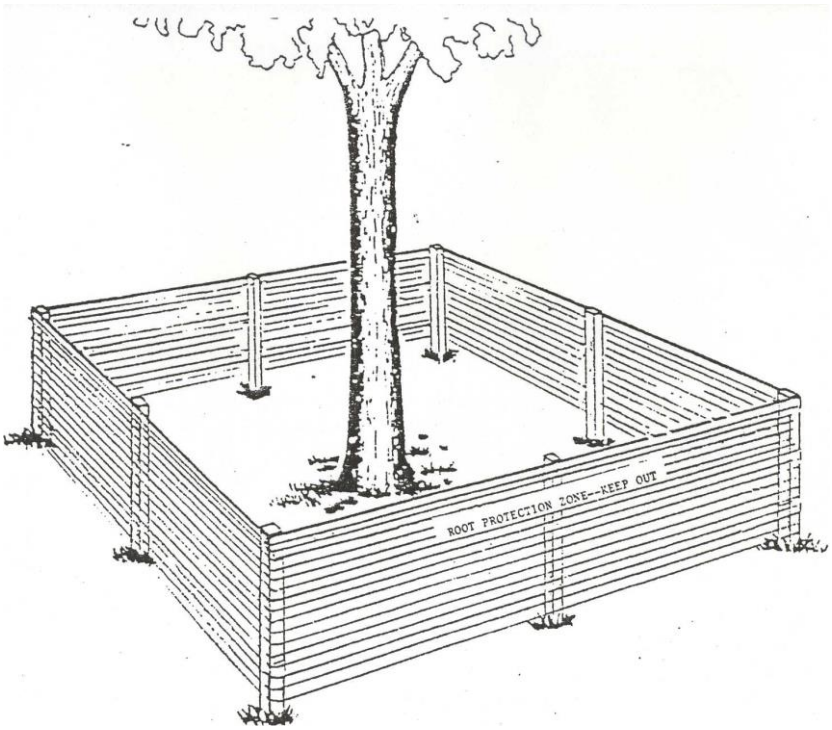
SC.10.6 Mutilated cuts made to roots during excavation shall be re-cut with the appropriate horticultural tool(s), making oblique cuts facing away from the soil surface. (see detail D)

SC.10.7 All traffic shall be controlled away from all protected trees and other plant material. Protective devices, signs or other objects shall not be fastened directly to trees or plant material. Trees shall not be used as temporary utility poles or for anchorage. The Contractor shall not permit parking, movement or storage or any vehicle or equipment near trees which are to be protected or are adjacent to the job site. Should violations occur the Contractor shall be required at his own expense, to install additional fencing to eliminate further encroachment.

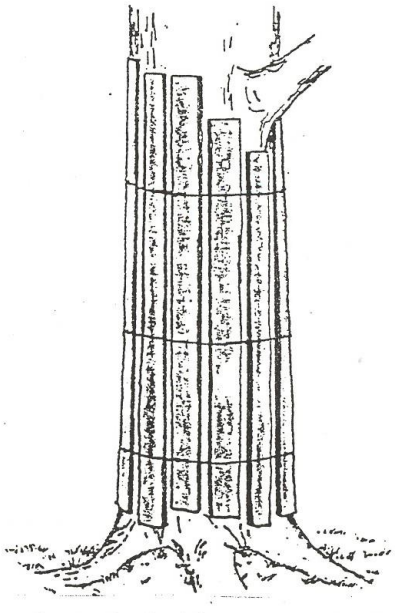
SC.10.8 Equipment shall not be parked or stored within a root protection zone. Material stockpiles shall not be located within a root protection zone.

SC.10.9 Trees or other plants damaged by the Contractor shall be replaced at Contractor expense. The Contractor shall not remove damaged plant material without prior approval of the Contracting Officer. Replacement trees and trees shall be of like species, variety, and size. Replacements shall be guaranteed for one year from date of planting.

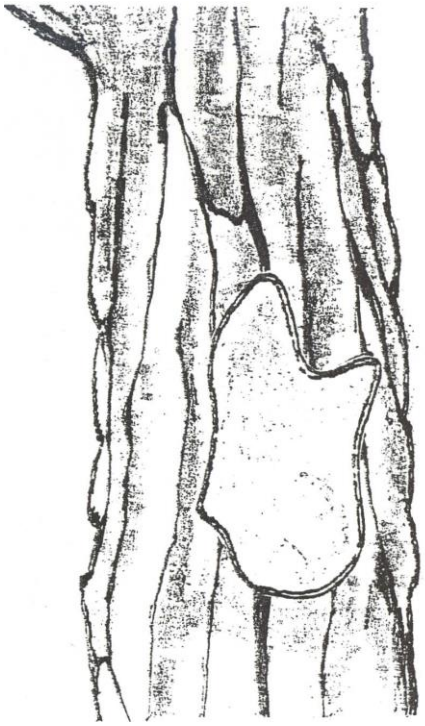
SC.10.9.1 Where replacement is not feasible, the Contracting Officer will secure monetary compensation from the Contractor. The Contracting Officer will determine the replacement compensation costs based on the most current edition of the Council of Tree and Landscape Appraisers (CTLA) *"Guide for Plant Appraisal"*.



DETAIL A <u>Pre-Construction Barricade Fencing</u>
four (4) foot high, orange polyethylene barricade fence supported on posts with attachments to these posts on six (6) foot centers.

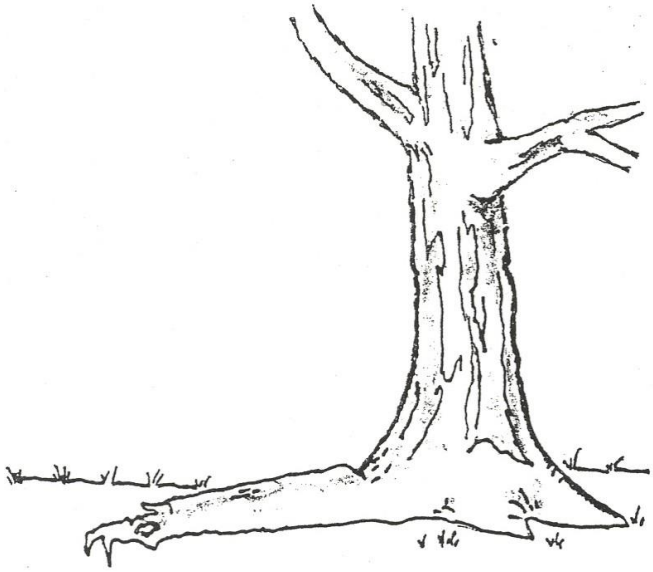


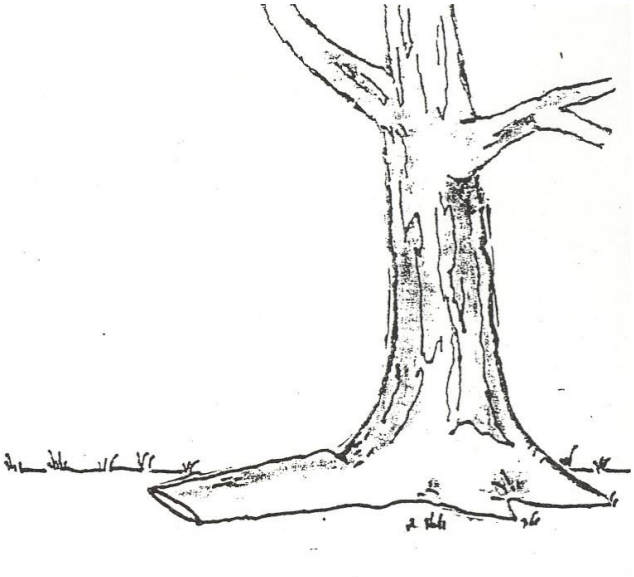
DETAIL B Boards or poles lashed with rope or wire in an upright position against the tree trunk.



DETAIL C Damaged tree trunk with loose bark.

Corrective Action
Streamlined wound edges with loose bark removed.





DETAIL D Mutilated root resulting from mechanical excavation.

Corrective Action Oblique cut facing away from soil surface.

USMA CRM STANDARD OPERATING PROCEDURE 15:

PROCEDURES FOR DISCOVERIES OF HUMAN REMAINS DURING ARCHAEOLOGICAL EXCAVATIONS

1. Upon discovery of human remains or suspected human remains, the archaeological team would immediately cease excavation activities, secure the excavation scene, and notify the USMA Cultural Resources Manager (T. Beckwith x7741).

2. The USMA CRM would immediately notify the MP Front Desk [x3333).

3. If the archaeological team cannot contact the USMA CRM, they would notify the MP Front Desk directly.

4. The MP Front Desk should immediately take the following actions:

    a. Dispatch a patrol unit to the location to secure the scene;
    b. Dispatch Criminal Investigation Division (CID) Agent(s) to the scene;
    c. Notify the PMO Chain-Of-Command as appropriate.

5. The USMA CRM would subsequently notify the:

    a. New York State Historic Preservation Office;
    b. USMA Public Affairs Office.

6. USMA CID will make the legal determination that the human remains are archaeological/historic in nature and are not a crime scene. USMA CID will formally document this decision and provide record copy to USMA CRM. If the USMA CID determines that the human remains are a crime scene, they will assume all responsibility for future actions and activities at the crime scene, as the Federal law enforcement agency in charge of the criminal investigation.

7. Upon determination that the remains are historic/prehistoric in nature and not a crime scene the USMA CRM would contact a Forensic Anthropologist to ascertain if the remains are:

    a. Native-American (pre-historic); or
    b. Historic.

8. The USMA PMO will be responsible for securing the human remains until archaeological recovery is completed.

9. If the remains are determined to be Native American (pre-historic) the provisions of the Native American Graves Protection and Repatriation Act (NAGPRA) apply. The USMA CRM must notify interested Native American nations:

    a. Stockbridge-Munsee Band of Mohican Indians
    b. Saint Regis Band of Mohawk Indians.

10. If the Forensic Anthropologist determines the remains to be an American service-member of the World War II or later era, the U.S. Army Identification Laboratory in Hawaii and the DoD MIA Office must be notified, and DoD MIA procedures and regulations would be adhered to. If the remains are determined to be those of an American service-member previous to World War II, no such notification is required.

11. Following all necessary consultation and appropriate notifications, the archaeological firm would continue with the excavations under the direction of a professionally qualified Forensic Anthropologist.

12. If the remains are determined to be that of an American service-member previous to World War II era, the remains would be re-buried at the West Point Cemetery with full military honors, and with appropriate military ceremony.

USMA CRM STANDARD OPERATING PROCEDURE 16-1:
PROTECTION OF ARCHAELOGICAL OR HISTORICAL ARTIFACTS

MAENEN-CR

STANDING OPERATING PROCEDURE NO. 16-1
PROTECTION OF ARCHAELOGICAL OR HISTORICAL ARTIFACTS

1. PURPOSE: To establish guidelines for protection and preservation of all archaeological and historical artifacts uncovered during any excavation, demolition, construction, maintenance, or other action that may expose artifacts.

2. OBJECTIVE: To protect archaeological and historical sites that may inadvertently be discovered, until they are examined by appropriate authorities.

3. SCOPE: This SOP applies to all divisions within the Directorate of Housing and Public Works (DHPW), contractors and/or others working for DHPW, and encompasses all work performed for and at the United States Military Academy (USMA).

4. DISCUSSION: An artifact is defined as any bone relic, memorabilia, or any item of historic or archaeological significance that is exposed through construction, demolition, excavation or maintenance procedures. Some examples of artifacts are: bones, printed matter or other papers, weapons, projectiles, arrowheads, sabers, uniform fragments, buttons, bottles, jars, pottery, tools, portions of, or rubble from structures that previously existed and any other items of historical or archaeological significance.

5. RESPONSIBILITIES:

a. All supervisors involved in any type of construction, demolition, excavation or maintenance of facilities should be aware of the procedures set forth in this SOP.
b. Each individual employee will notify his/her supervisor when a suspected artifact is discovered.
c. Chiefs, Environmental Management Division, Engineering Plans and Services Division, Energy Resource Management Division, and Utilities and Facilities Division, DHPW, will take necessary action to ensure that guide specifications (special conditions) provide for protection of Military Property and Relics in all construction contracts, maintenance and repair contracts and or work orders.

6. PROCEDURES: When a suspected artifact is found:
a. Stop work immediately. Further action may damage or destroy valuable artifacts.
b. Notify supervisor of discovery of possible artifact.

c. Supervisor will contact the Cultural Resource Office (Annex A).

d. The Cultural Resource Manager will contact the Museum Director telephonically at the West Point Museum to seek appropriate assistance to determine the significance of possible artifacts uncovered during construction. The Cultural Resources Manager will also telephonically contact the Chief, Military History Division, Department of History, to determine what if any significance the possible artifact might have on the accepted history of West Point. If it is determined that artifacts of significance have been found, the Cultural Resource Manager will contact the New York State Historic Preservation Office (NYSHPO) to seek further preservation guidance. All found objects are considered property of the Federal government.

e. DHPW personnel, working with the NYSHPO staff, will determine what action will be taken to preserve the artifacts exposed as well as those which may not yet be exposed. Possible actions are:

(1) Complete stoppage of work until all artifacts are removed in an approved manner.

(2) Temporary stoppage of work until already disturbed artifacts are removed and conditions indicate that no other artifacts will be found.

(3) Continuation of work as planned with continued observation for artifacts.

f. If an artifact is found anytime other than during the duty hours, the following procedure should be followed:

(1) Stop work immediately.

(2) The supervisor or the highest grade employee on the job will contact the Central Power Plant. Central Power Plant personnel will initiate home phone calls until one of the appropriate persons on the after hours list has been reached.

(3) The supervisor or the highest grade employee on the job will give a preliminary assessment of the possible artifact and any other pertinent details to the person contacted by the Central Power Plant, who will request work to cease until the USMA Cultural Resource Manager can examine the site, or authorize the work to continue. A site visit may not be necessary to make this decision.

g. If repair work is being performed under emergency conditions, the protection of artifacts shall be secondary to safety of human life and property.

7. <u>REFERENCES:</u>

a. Archaeological Resources Protection Act of 1979 (16 U.S.C. 470a).

b. Archaeological and Historic Preservation Act of 1974, as amended (16 U.S.C.469a).

c. National Historic Preservation Act of 1966, as amended (16 U.S.C. 470-470m).

d. Executive Order 11593, Protection and Enhancement of the Cultural Environment (16 U.S.C. 470).

e. AR 420-40, Historic Preservation.

SECTION 01 58 00

PROJECT IDENTIFICATION
08/19

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EP 310-1-6a	(2006) Sign Standards Manual, VOL 1
EP 310-1-6b	(2006) Sign Standards Manual, VOL 2, Appendices

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Sign Legend Orders; G, RO

1.3 QUALITY CONTROL

1.4 PROJECT IDENTIFICATION SIGN

1.4.1 Construction Project Signs

Furnish the construction project sign package, maintain the signs during construction, and remove the signs from the job site upon completion of the project. The construction project sign package consists of three signs: one for project identification , one to show the on-the-job safety performance of the contractor and one public safety sign. Ensure that the package conforms to the requirements of EP 310-1-6a and EP 310-1-6b, specifically Section 16. Submit the sign legend orders as described in Section 16 of EP 310-1-6a before erecting the signs.

a. Sample sign drawings together with mounting and fabrication details are provided at the end of this section. The signs must be erected within 15 calendar days after the date of Notice to Proceed. The project identification and safety performance signs are to be displayed side-by-side and mounted for reading by passing viewers. The public safety sign must be the same size as the project signs. The Contracting Officer will designate exact placement locations. Panels are fabricated using HDO (High Density Overlay) plywood with dimensional lumber uprights and bracing. The sign faces are

non-reflecting vinyl. All legends are to be die-cut or computer-cut in the sizes and type-faces specified and applied to the white panel background following the graphic formats shown on the attached sheets. The Communications Red panel on the left side of the construction project sign with Corps signature (reverse version) is screen printed onto the white background.

b. The Contractor must maintain the signs in good condition throughout the construction period. No separate payment will be made for erecting and maintaining the signs and all costs in connection therewith will be considered the obligation of the Contractor. Upon completion of the project, the Contractor must remove the signs from the project site.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

PROJECT

SIGNS

LEFT BLANK INTENTIONALLY

PROJECT IDENTIFICATION SIGN
MILITARY PROJECT

The graphic format for this 4' x 6' sign panel follows the legend guidelines and layout as specified below. The large 4' x 4' section of the panel in the right is to be white with black legend. The 2' x 4' section of the sign on the left with the full corps Signature (reverse version) is to be screen printed Communications Red on the white background. The castle insignia will be furnished by the Government in pressure sensitive vinyl for affixing by the Contractor. See attached sheet for fabrication and mounting guidelines.

Legend Group 1: One- to two-line description of Corps relationship to project
Color: White
Typeface: 1.25" Helvetica Regular
Maximum line length: 19"

Legend Group 2: Division or District Name (optional). Place below 10.5" Reverse Signature (6" Castle)
Color: White
Typeface: 1.25" Helvetica Regular

Legend Group 3: One- to three-line project title legend describes the work being done under this contract.
Color: Black
Typeface: 3" Helvetica Bold
Maximum line length: 42"

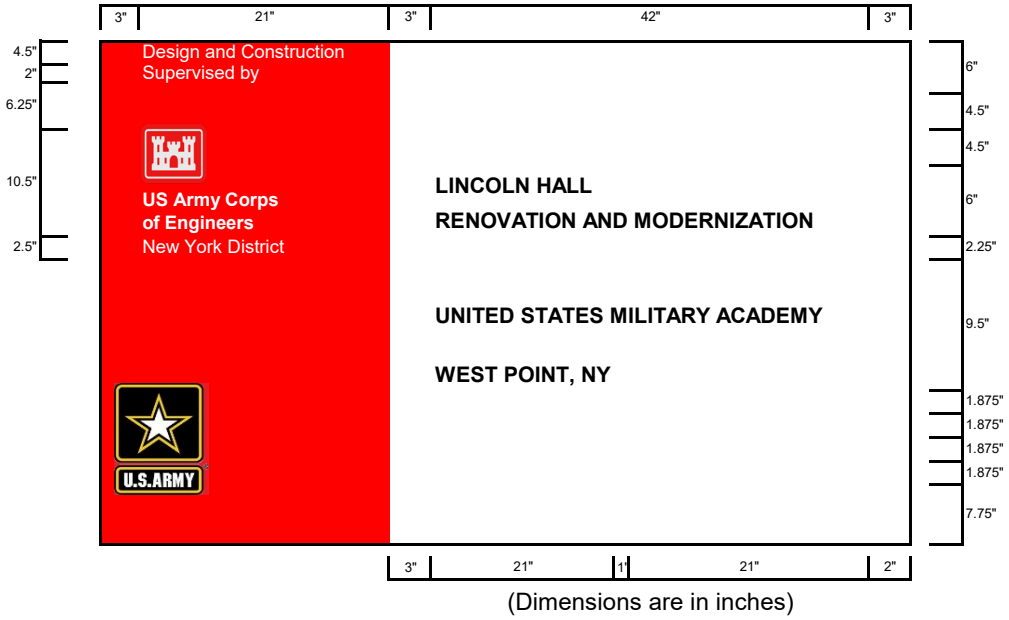
Legend Group 4: One-to two-line identification of project or facility (civil works) or name of sponsoring department (military).
Color: Black
Typeface: 1.5" Helvetica Regular
Maximum line length: 42"

Cross-align the first of Legend Group 4 with the first line of the Corps Signature (US Army Corps) as shown.

Legend Group 5a-b: One-to-five line identification of prime contractors including: type (architect, general contractor, etc.), corporate or firm name, city, state. Use of Legend Group 5 is optional.
Color: Black
Typeface: 1.25" Helvetica Regular
Maximum line length: 21"

All typography is flush left and rag right upper and lower case with initial capitals only as shown. Letter and word spacing to follow Corps standards as specified in
* Appendix D

SAMPLE:



(Dimensions are in inches)

Sign Type	Legend	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CID-01	various	4' x 6'	4' x 4'	HDO-3	48"	WH-RD/BK

* Refers to the U.S. Army Corps of Engineers, "Sign Standards Manual", EPS-310-1-6.

SAFETY PERFORMANCE SIGN

The graphic format, color, size and type-faces used on the sign are to be reproduced exactly as specified below. The title with First Aid logo in the top section of the sign, and the performance record captions are standard for all signs of this type. Legend Group 2 and 3 below identify the project and the contractor and are to be placed on the sign as shown. Safety record numbers are mounted on individual metal plates and are screw-mounted to the background to allow for daily revisions to posted safety performance record.

Legend Group1: Standard two-line title "safety is a Job Requirement", with (8" od.) Safety Green First Aid logo. Color: To match PMS 347
Typeface: 3" Helvetica Bold
Color: Black

Legend Group 2: One- to two-line project title legend describes the work being done under this contract and name of host project.
Color: Black
Typeface: 1.5" Helvetica Regular
Maximum line length: 42"

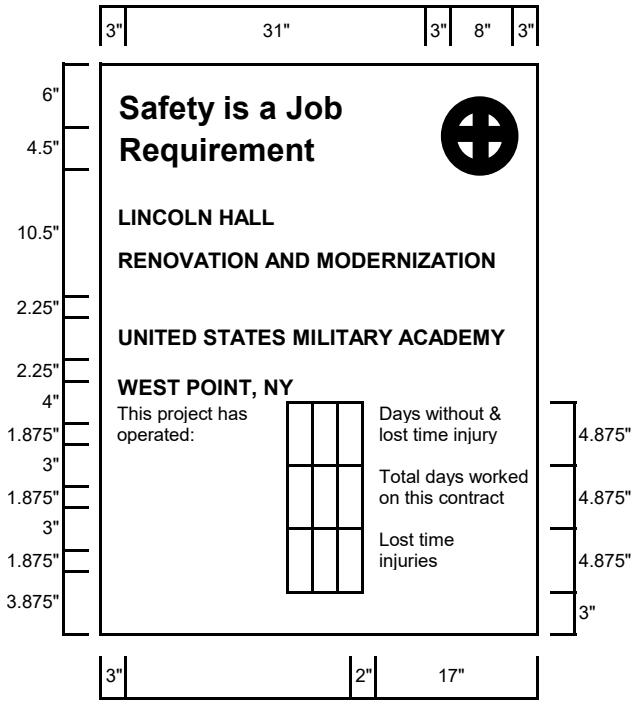
Legend Group 3: One - to two-line identification: name of prime contractor and city, state address.
Color: Black
Typeface: 1.5" Helvetica Regular
Maximum line length: 42"

Legend Group 4: Standard safety record captions as shown.
Color: Black

Typeface: 1.25" Helvetica Regular

Replaceable numbers are to be mounted on white .060: aluminum plates and screw-mounted to background.
Color: Black
Typeface: 3" Helvetica Regular
Plate size: 2.5"x.5"

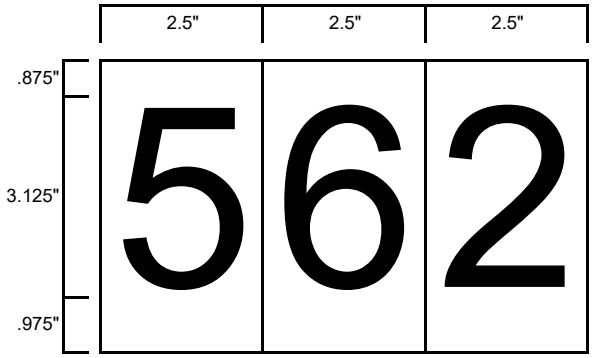
All typography is flush left and rag right, upper and lower case with initial capitals only as shown. Letter- and word-spacing to follow Corps standards as specified in Appendix D. *



Dimensions inches.
See attached sheet for fabrication and mounting guidelines.

* Refer to the U.S. Army Corps of Engineers, "Sign Standards Manual", EPS-310-1-6.

Sign Type	Legend Size	Panel Size	Post Size	Specifications Code	Mounting Height	Color Bkg/Lgd
CID-02	various	4"x4"	4"x4"	HDO-3	48"	WH/BK-GR



US ARMY

CORPS OF ENGINEERS, NEW YORK DISTRICT

LINCOLN HALL RENOVATION AND MODERNIZATION
UNITED STATES MILITARY ACADEMY
WEST POINT, NY

CONTRACTOR:
FUNDED BY:
COMPLETION DATE:

FOR YOUR SAFETY

1. DO NOT ENTER DESIGNATED WORK AREAS
2. OBEY ALL STATE AND LOCAL REQUIREMENTS CONCERNING PROHIBITED ACTIVITIES

DISTRICT ENGINEER: COL. MATTHEW LUZZATTO

Fabrication and Mounting Guidelines

As Construction Project Identification signs and Safety Performance signs are to be fabricated and installed as described below. The signs are to be erected at a location designated by the contracting officer and shall conform to the size, format, and typographic standards shown on the attached sheets.

The sign panels are to be fabricated from .75" High Density Overlay Plywood. Panel preparation to follow HDD specifications provided in Appendix B. **

Sign graphics to be prepared on a white non-reflective vinyl film with positionable adhesive backing.

All graphics except for the Communications Red background with Corps signature on the project sign are to be die-cut or computer-cut non-reflective vinyl, pre-spaced legends prepared in the sizes and typefaces specified and applied to the background panel following the graphic formats shown on the attached sheets.

The 2'x4' Communications Red panel (to match PMS-032) with full Corps signature (reverse version) is to be screen printed on the white background. Identification of the District or Division may be applied under the signature with white cut vinyl letters prepared to Corps standards. Large scale reproduction artwork for the signature is provided on page 4.8 (photographically enlarge from 6.875" to 10.5"). **

Drill and Insert six (6) .375" T-nuts from the front face of the HDD sign panel. Position holes as shown. Flange of T-nut to be flush with sign face.

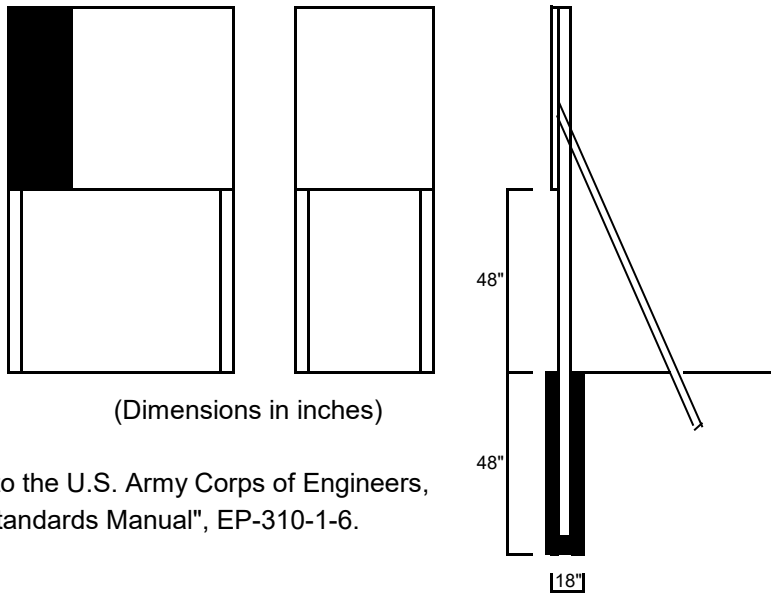
Apply graphic panel to prepared HDD plywood panel following manufacturers' instructions.

Sign uprights to be structural grade 4"x4" treated Douglas Fir or Southern Yellow Pine. No.1 or better. Post to be 12" long. Drill six (6) .375" mounting holes in uprights to align with T-nuts in sign panel. Countersink (.5") back of hole to accept socket head cap screw (4"x.375").

Assemble sign panel and uprights. Imbed assembled sign panel and uprights in 4" hole. Local soil conditions and/or wind loading may require bolting additional 2"x4" struts on inside face of uprights to reinforce installation as shown.

Detailed specifications for HDD plywood panel preparation are provided in Appendix B.**

Shown below the mounting diagram is a panel layout grid with spaces provided for project information. Photocopy this page and use as a worksheet when preparing sign legend orders.



(Dimensions in inches)

** Refers to the U.S. Army Corps of Engineers, "Sign Standards Manual", EP-310-1-6.

Construction Project Sign
Legend Group 1: Corps Relationship

1. _____
2. _____

Legend Group 2: Division/District Name

1. _____
2. _____

Legend Group 3: Project Title

1. _____
2. _____
3. _____

Legend Group 4: Facility Name

1. _____
2. _____

Legend Group 5a: Contractor/A&E

1. _____
2. _____
3. _____
4. _____
5. _____

Legend Group 5b: Contractor /A&E

1. _____
2. _____
3. _____
4. _____
5. _____

Safety Performance Sign
Legend Group 1: Project Title

1. _____
2. _____

Legend Group 2: Contractor/A&E

1. _____
2. _____

SECTION 01 74 19

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
02/19

PART 1 GENERAL

1.1 DEFINITIONS

1.1.1 Co-mingle

The practice of placing unrelated materials together in a single container, usually for benefits of convenience and speed.

1.1.2 Construction Waste

Waste generated by construction activities, such as scrap materials, damaged or spoiled materials, temporary and expendable construction materials, and other waste generated by the workforce during construction activities.

1.1.3 Demolition Debris/Waste

Waste generated from demolition activities, including minor incidental demolition waste materials generated as a result of Intentional dismantling of all or portions of a building, to include clearing of building contents that have been destroyed or damaged.

1.1.4 Disposal

Depositing waste in a solid waste disposal facility, usually a managed landfill, regulated in the US under the Resource Conservation and Recovery Act (RCRA).

1.1.5 Diversion

The practice of diverting waste from disposal in a landfill, by means of eliminating or minimizing waste, or reuse of materials.

1.1.6 Final Construction Waste Diversion Report

A written assertion by a material recovery facility operator identifying constituent materials diverted from disposal, usually including summary tabulations of materials, weight in short-ton. Include Alternative Daily Cover (ADC) in calculations as waste not diverted from landfill.

1.1.7 Recycling

The series of activities, including collection, separation, and processing, by which products or other materials are diverted from the solid waste stream for use in the form of raw materials in the manufacture of new products sold or distributed in commerce, or the reuse of such materials as substitutes for goods made of virgin materials, other than fuel.

1.1.8 Reuse

The use of a product or materials again for the same purpose, in its original form or with little enhancement or change.

1.1.9 Salvage

Usable, salable items derived from buildings undergoing demolition or deconstruction, parts from vehicles, machinery, other equipment, or other components.

1.1.10 Source Separation

The practice of administering and implementing a management strategy to identify and segregate unrelated waste at the first opportunity.

1.2 CONSTRUCTION WASTE (INCLUDES DEMOLITION DEBRIS/WASTE)

Divert a minimum of 64 percent by weight of the project construction waste and demolition debris/waste from the landfill. Follow applicable industry standards in the management of waste. Apply sound environmental principles in the management of waste. (1) Practice efficient waste management when sizing, cutting, and installing products and materials and (2) use all reasonable means to divert construction waste and demolition debris/waste from landfills and to facilitate the recycling or reuse of excess construction materials.

1.3 CONSTRUCTION WASTE MANAGEMENT

Implement a construction waste management program for the project. Take a pro-active, responsible role in the management of construction construction waste, recycling process, disposal of demolition debris/waste, and require all subcontractors, vendors, and suppliers to participate in the construction waste management program. Establish a process for clear tracking, and documentation of construction waste and demolition debris/waste.

Comply with the US Green Building Council’s (USGBC) Leadership in Energy and Environmental Design (LEED) version 4.0 Building Design and Construction (BD+C) with all current addenda for Materials and Resources (MR) Prerequisite 2 Construction and Demolition Waste Management Planning and MR Credit 5 Construction and Demolition Waste Management.

1.3.1 Implementation of Construction Waste Management Program

Develop and document how the construction waste management program will be implemented in a construction waste management plan. Submit a Construction Waste Management Plan to the Contracting Officer for approval. Construction waste and demolition debris/waste materials include un-used construction materials not incorporated in the final work, as well as demolition debris/waste materials from demolition activities or deconstruction activities. In the management of waste, consider the availability of viable markets, the condition of materials, the ability to provide material in suitable condition and in a quantity acceptable to available markets, and time constraints imposed by internal project completion mandates.

1.3.2 Oversight

The Quality Control Manager, as specified in Section 01 45 00.00 10 QUALITY CONTROL, is responsible for overseeing and documenting results from executing the construction waste management plan for the project. Report to the Contracting Officer the amount of project derived Construction and demolition (C&D) waste that was recycled and the amount sent to an off-site landfill or other disposal site.

1.3.3 Special Programs

Implement any special programs involving rebates or similar incentives related to recycling of construction waste and demolition debris/waste materials. Retain revenue or savings from salvaged or recycling, unless otherwise directed. Ensure firms and facilities used for recycling, reuse, and disposal are permitted for the intended use to the extent required by federal, state, and local regulations.

1.3.4 Special Instructions

Provide on-site instruction of appropriate separation, handling, recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the projects. Designation of single source separating or commingling will be clearly marked on the containers.

1.3.5 Waste Streams

Delineate waste streams and characterization, including estimated material types and quantities of waste, in the construction waste management plan. Manage all waste streams associated with the project. Typical waste streams are listed below. Include additional waste steams not listed:

a. Land Clearing Debris (not included in LEEDv4 Construction Waste Management Calculations)

b. Asphalt

c. Masonry and CMU

d. Concrete

e. Metals (e.g. banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized, stainless steel, aluminum, copper, zinc, bronze, etc.)

f. Wood (nails and staples allowed)

g. Glass

h. Paper

i. Plastics (PET, HDPE,PVC,LDPE,PP,PS, Other)

j. Gypsum

k. Non-hazardous paint and paint cans

l. Carpet

m. Ceiling Tiles

n. Insulation

o. Beverage Containers

1.4 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Construction Waste Management Plan; S, RO

SD-06 Test Reports

Quarterly Reports

Annual Report

SD-11 Closeout Submittals

Final Construction Waste Diversion Report; S

1.5 MEETINGS

Conduct Construction Waste Management meetings. After award of the Contract and prior to commencement of work, schedule and conduct a meeting with the Contracting Officer to discuss the proposed construction waste management plan and to develop a mutual understanding relative to the management of the construction waste management program and how waste diversion requirements will be met.

The requirements of this meeting may be fulfilled during the coordination meeting outlined in Section 01 45 00.00 10 QUALITY CONTROL. At a minimum, discuss and document waste management goals at following meetings:

a. Preconstruction meeting.

b. Regular Quality Control meetings.

c. Work safety meeting (if applicable).

1.6 CONSTRUCTION WASTE MANAGEMENT PLAN

Confer with USAG West Point Installation Plan for Construction and Demolition Waste Management. Submit Construction Waste Management Plan within 15 days after notice to proceed. Revise and resubmit Construction Waste Management Plan until it receives final approval from the Contracting Officer, in order for construction to begin. Execute demolition or deconstruction activities in accordance with Section 02 41 00 DEMOLITION . Manage demolition debris/waste or deconstruction materials in accordance with the approved construction waste management plan.

An approved construction waste management plan will not relieve the Contractor of responsibility for compliance with applicable environmental regulations or meeting project cumulative waste diversion requirement. Ensure all subcontractors receive a copy of the approved Construction Waste Management Plan. The plan demonstrates how to meet the project waste diversion requirement. Also, include the following in the plan:

a. Identify the names of individuals responsible for waste management and waste management tracking, along with roles and responsibilities on the project..

b. Actions that will be taken to reduce solid waste generation, including coordination with subcontractors to ensure awareness and participation.

c. Description of the regular meetings to be held to address waste management.

d. Description of the specific approaches to be used in recycling/reuse of the various materials generated, including the areas on site and equipment to be used for processing, sorting, and temporary storage of materials.

e. Name of landfill to be used.

f. Identification of local and regional re-use programs, including non-profit organizations such as schools, local housing agencies, and organization that accept used materials such as material exchange networks and resale stores. Include the name, location, phone number for each re-use facility identified, and provide a copy of the permit or license for each facility.

g. List of specific materials, by type and quantity, that will be salvaged for resale, salvaged and reused on the current project, salvaged and stored for reuse on a future project, or recycled. Identify the recycling facilities by name, address, and phone number. Identify at least five waste streams to be diverted from landfil in the plan.

h. Identification of materials that cannot be recycled or reused with an explanation or justification, to be approved by the Contracting Officer.

i. Description of the means by which any materials identified in item (g) above will be protected from contamination.

j. Description of the means of transportation of the recyclable materials (whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site).

k. Copy of training plan for subcontractors and other services to prevent contamination by co-mingling materials identified for diversion and waste materials.

l. Identification of at least 5 construction or demolition material streams for diversion.

m. Detailed plan and distribution of waste diversion between buildings,

when project is a part of a campus.

n. Identify any local jurisdiction requirements for waste management. Include those requirements, points of contact, etc.

Distribute copies of the waste management plan to each subcontractor, Quality Control Manager, and the Contracting Officer.

1.7 RECORDS (DOCUMENTATION)

1.7.1 General

Maintain records to document the types and quantities of waste generated and diverted though re-use, recycling and/or sale to third parties; through disposal to a landfill facility. Provide explanations for any materials not recycled, reused or sold. Collect and retain manifests, weight tickets, sales receipts, and invoices specifically identifying diverted project waste materials or disposed materials.

1.7.2 Accumulated

Maintain a running record of materials generated and diverted from landfill disposal, including accumulated diversion rates for the project. Make records available to the Contracting Officer during construction or incidental demolition activities. Provide a copy of the diversion records to the Contracting Officer upon completion of the construction, incidental demolitions or minor deconstruction activities.

1.8 REPORTS

1.8.1 General

Maintain current construction waste diversion information on site for periodic inspection by the Contracting Officer. Include in the quarterly reports, annual reports and final reports: the project name, contract information, information for waste generated, diverted and disposed of for the current reporting period and show cumulative totals for the project. Reports must identify quantifies of waste by type and disposal method. Also include in each report, supporting documentation to include manifests, weigh tickets, receipts, and invoices specifically identifying the project and waste material type and weighted sum.

1.8.2 Quarterly Reporting

Provide cumulative reports at the end of each quarter (December, March, June, and September, corresponding with the federal fiscal year for reporting purposes). Submit quarterly reports not later than 15 calendar days after the preceding quarter has ended. Submit Quarterly Reports to the appropriate office or identified point of contact.

1.8.3 Annual Reporting

Provide a cumulative construction waste diversion report annually. Submit annual report not later than 30 calendar days after the preceding fourth quarter has ended. Provide copy of annual construction waste diversion report to the installation POC.

1.9 FINAL CONSTRUCTION WASTE DIVERSION REPORT

A Final Construction Waste Diversion Report is required at the end of the project. Provide Final Construction Waste Diversion Report 60 days prior to the Beneficial Occupancy Date (BOD). The final Construction Waste Diversion Report must be included in the Sustainability eNotebook in accordance with Section 01 33 29 SUSTAINABILITY REPORTING. Demonstrate at least four material waste streams diverted from the landfill through recycling, reusing, salvaging, or donation.

1.10 COLLECTION

Collect, store, protect, and handle reusable and recyclable materials at the site in a manner which prevents contamination, and provides protection from the elements to preserve their usefulness and monetary value. Provide receptacles and storage areas designated specifically for recyclable and reusable materials and label them clearly and appropriately to prevent contamination from other waste materials. Keep receptacles or storage areas neat and clean.

Train subcontractors and other service providers to either separate waste streams or use the co-mingling method as described in the construction waste management plan. Handle hazardous waste and hazardous materials in accordance with applicable regulations and coordinate with Section 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS. Separate materials by one of the following methods described herein:

1.10.1 Source Separation Method

Separate waste products and materials that are recyclable from trash and sort as described below into appropriately marked separate containers and then transport to the respective recycling facility for further processing. Deliver materials in accordance with recycling or reuse facility requirements (e.g., free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process). Separate materials into the category types as defined in the construction waste management plan.

1.10.2 Co-Mingled Method

Place waste products and recyclable materials into a single container and then transport to an authorized recycling facility, which meets all applicable requirements to accept and dispose of recyclable materials in accordance with all applicable local, state and federal regulations. The Co-mingled materials must be sorted and processed in accordance with the approved construction waste management plan.

For LEEDv4 construction waste diversion calculations, calculate co-mingled waste as one waste stream unless the sorting facility demonstrates diversion rates for specific materials using weight or volume. Visual inspection for purposes of documenting percentage of co-mingled waste diverted from landfill is not acceptable.

1.10.3 Other Methods

Other methods proposed by the Contractor may be used when approved by the Contracting Officer.

1.11 DISPOSAL

Control accumulation of waste materials and trash. Recycle or dispose of collected materials off-site at intervals approved by the Contracting Officer and in compliance with waste management procedures as described in the waste management plan. The Contractor must not use West Point dumpsters for disposal of waste generated during contract performance. The Contractor must be responsible for removal of all solid waste generated during contract performance and disposal off site using appropriately permitted waste haulers. Waste cannot be stored exposed to the weather or in a manner that could contaminate the environment. Dumpsters must be emptied at least weekly. Dumpsters must be maintained in good repair and kept clean and sanitary. Except as otherwise specified in other sections of the specifications, dispose of in accordance with the following:

1.11.1 Reuse

Give first consideration to reusing construction and demolition materials as a disposition strategy. Recover for reuse materials, products, and components as described in the approved construction waste management plan. Coordinate with the Contracting Officer to identify onsite reuse opportunities or material sales or donation available through Government resale or donation programs. Sale of recovered materials is not allowed on the Installation.

1.11.2 Recycle

Recycle non-hazardous construction and demolition/debris materials that are not suitable for reuse. Track rejection of contaminated recyclable materials by the recycling facility. Rejected recyclables materials will not be counted as a percentage of diversion calculation. Recycle all fluorescent lamps, HID lamps, mercury (Hg) -containing thermostats and ampoules, and PCBs-containing ballasts and electrical components as directed by the Contracting Officer. Do not crush lamps on site as this creates a hazardous waste stream with additional handling requirements.

1.11.3 Compost

Consider composting on site if a reasonable amount of compostable materials will be available and a utilization of compostable material can be determined and appropriately planned for. Compostable materials include plant materials, sawdust and certain food scraps. Composting as a strategy must be explicitly addressed in the Construction Waste Management Plan submitted for approval to ensure it is feasible.

1.11.4 Waste

Dispose by landfill or incineration only those waste materials with no practical use, economic benefit, or recycling opportunity.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used. -- End of Section --

SECTION 01 78 00

CLOSEOUT SUBMITTALS
05/19

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 19005-3	(2012) Document Management -- Electronic Document File Format for Long-Term Preservation -- Part 3: Use of ISO 32000-1 with Support for Embedded Files (PDF/A-3)
ISO 32000-1	(2008) Document Management -- Portable Document Format -- Part 1: PDF 1.7

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 1110-1-2909	(2012) Geospatial Data and Systems
ERDC/ITL TR-12-1	(2015) A/E/C Graphics Standard, Release 2.0
ERDC/ITL TR-12-6	(2015) A/E/C CAD Standard - Release 6.0

U.S. DEPARTMENT OF DEFENSE (DOD)

UFC 1-300-08	(2009, with Change 2, 2011) Criteria for Transfer and Acceptance of DoD Real Property

1.2 DEFINITIONS

1.2.1 As-Built Drawings

As-built drawings are the marked-up drawings, maintained by the Contractor on-site, that depict actual conditions and deviations from the Contract Documents. These deviations and additions may result from coordination required by, but not limited to: contract modifications; official responses to submitted Requests for Information (RFI's); direction from the Contracting Officer; design that is the responsibility of the Contractor, and differing site conditions. Maintain the as-builts throughout construction as red-lined hard copies on site and red-lined PDF files. These files serve as the basis for the creation of the record drawings.

1.2.2 Record Drawings

The record drawings are the final compilation of actual conditions reflected in the as-built drawings.

Produce the record drawings from the Record Model(s) and do not include annotations indicating revisions.

1.2.3 Record Model

A model reflecting approved changes during construction including red-lines, requests for information (RFI's), and contract modifications. Include updated construction phase facility/site data for components.

1.2.4 Advanced Modeling

A subset of geospatial technologies as defined in EM 1110-1-2909 to include Building Information Modeling (BIM), Civil Information Modeling (CIM), Geographic Information Systems (GIS), and Computer-Aided Design (CAD). Advanced modeling is comprised of models and drawings that form a digital representation of the project, or part thereof, that are comprised of model elements with facility data.

1.2.5 USACE CAD/BIM Technology Center

The USACE CAD/BIM Technology Center hosts all standard content for USACE. This content can be accessed through the CAD/BIM Technology Center website, https://cadbimcenter.erdc.dren.mil/.

1.3 SOURCE DRAWING FILES

Request the full set of electronic drawings, in the source format, for Record Drawing preparation, after award and at least 30 days prior to required use.

1.3.1 Terms and Conditions

Data contained on these electronic files must not be used for any purpose other than as a convenience in the preparation of construction drawings and data for the referenced project. Other use or reuse will be at the sole risk of the Contractor and without liability or legal exposure to the Government. The Contractor must make no claim and waives to the fullest extent permitted by law, any claim or cause of action of any nature against the Government, its agents or sub consultants that may arise out of or in connection with the use of these electronic files. The Contractor must, to the fullest extent permitted by law, indemnify and hold the Government harmless against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the use of these electronic files.

These electronic CAD drawing files are not construction documents. Differences may exist between the CAD files and the corresponding construction documents. The Government makes no representation regarding the accuracy or completeness of the electronic CAD files, nor does it make representation to the compatibility of these files with the Contractor hardware or software. In the event that a conflict arises between the signed and sealed construction documents prepared by the Government and the furnished Source drawing files, the signed and sealed construction documents govern. The Contractor is responsible for determining if any conflict exists. Use of these Source Drawing files does not relieve the Contractor of duty to fully comply with the contract documents, including and without limitation, the need to check, confirm and coordinate the work of all contractors for the project. If the Contractor uses, duplicates or modifies these electronic source drawing files for use in producing

construction drawings and data related to this contract, remove all previous indicia of ownership (seals, logos, signatures, initials and dates).

1.4 RECORD DRAWINGS

The Government will provide an optical disc (CD or DVD) at the preconstruction conference that contains one set of "as-designed" electronic CAD files in the specified software and format revised to reflect all amendments and the final contract PDF drawings. The CAD files are provided to enable preparation of as-built or as-constructed drawings. If discrepancies exist between the CAD files and the contract PDF drawings, correct the CAD files to show the contract PDF drawings.

1.4.1 Variation with Contract Drawings

The electronic files provided are not part of the contract documents. If there is any discrepancy between the electronic files and the contract drawings, the contract drawings govern. The Government has no responsibility to modify any GFM due to changes in the design that occur after award.

Evaluate the content and quality of the GFM upon receipt. If major discrepancies or omissions occur in the GFM, notify the Contracting Officer and indicate the nature of such variations.

1.4.2 Data Loss, Corruption, and Error

Transfer of GFM files may result in corrupted files resulting in data loss and errors. Use of GFM files at own risk. Verify data integrity upon receipt and request a replacement if necessary. Make any adjustment in file structure, format, or software version as needed to make GFM compatible with computer systems and/or software to meet the requirements of the contract.

1.4.3 Modeling Completeness and Quality

The Government makes no guarantee that the GFM provide the level of completeness or quality as required by the contract. Further, the Government makes no guarantee that identified variations will be corrected upon notification.

1.5 OWNERSHIP

The Government, for itself and such others as it deems appropriate, will have unlimited rights under this contract to all information and materials developed under this contract and furnished to the Government and documentation thereof, reports, and listings, and all other items pertaining to the work and services pursuant to this agreement including any copyright. Unlimited rights under this contract are rights to use, duplicate, or disclose text, data, drawings, and information, in whole or in part in any manner and for any purpose whatsoever without compensation to or approval from the Contractor. The Government will at all reasonable times have the right to inspect the work and will have access to and the right to make copies of the above-mentioned items. All text, electronic digital files, data, and other products generated under this contract must become the property of the Government. By reference, the following DFAR clauses are included in this contract as a part of the requirements herein:

a. DFAR 252.227-7013, "Rights in Technical Data - Noncommercial Items."

b. DFAR 252.227-7017, "Identification and Assertion of Use, Release, or Disclosure Restrictions."

c. DFAR 252.227-7020, "Rights in Special Works."

d. DFAR 252.227-7028, "Technical Data or Computer Software Previously Delivered to the Government."

e. DFAR 252.227-7037, "Validation of Restrictive Markings on Technical Data."

f. DFAR 252.227-7025, "Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends."

g. DFAR 252.227-7014, "Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation."

1.6 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Warranty Management Plan

Warranty Tags

Spare Parts Data

SD-08 Manufacturer's Instructions

Posted Instructions

SD-10 Operation and Maintenance Data

Operation and Maintenance Manuals; G, RO

SD-11 Closeout Submittals

As-Built Drawings; G, RO

Record Drawings; G, RO

Record Model; G, RO

As-Built Record of Equipment and Materials

Final Approved Shop Drawings; G, RO

Construction Contract Specifications; G, RO

Certification of EPA Designated Items; G, RO

Certification Of USDA Designated Items; G, RO

Interim DD FORM 1354; G, RO

Checklist for DD FORM 1354; G, RO

High Performance and Sustainable Building (HPSB) Checklist; G

1.7 SPARE PARTS DATA

Submit three copies of the Spare Parts Data list. Also, electronically in PDF format, via email.

a. Indicate manufacturer's name, part number, and stock level required for test and balance, pre-commissioning, maintenance and repair activities. List those items that may be standard to the normal maintenance of the system.

b. At acceptance of commissioning, ensure the required stock level is supplied as indicated in subparagraph a for maintenance and repair activities through the facilities warranty period. Provision of spare parts does not relieve the Contractor of responsibilities listed under the contract guarantee provisions.

1.8 QUALITY CONTROL

Additions and corrections to the contract drawings must be equal in quality and detail to that of the originals. Line colors, line weights, lettering, layering conventions, and symbols must be the same as the original line colors, line weights, lettering, layering conventions, and symbols.

1.9 WARRANTY MANAGEMENT

1.9.1 Warranty Management Plan

Develop a warranty management plan, which contains information relevant to FAR 52.246-21 Warranty of Construction. At least 30 days before the planned pre-warranty conference, submit electronically and three hard copies of the warranty management plan. Include within the warranty management plan all required actions and documents to assure that the Government receives all warranties to which it is entitled. The plan narrative must contain sufficient detail to render it suitable for use by future maintenance and repair personnel, whether tradesmen, or of engineering background, not necessarily familiar with this contract. The term "status" as indicated below must include due date and whether item has been submitted or was accomplished. Submit warranty information, made available during the construction phase, to the Contracting Officer for approval prior to each monthly pay estimate. Assemble approved information in a binder and turn over to the Government upon acceptance of the work. The construction warranty period must begin on the date of project acceptance and continue for the full product warranty period. Conduct a joint 4 month and 9 month warranty inspection, measured from time of acceptance; with the Contractor, Contracting Officer and the Customer Representative. The warranty management plan must include, but is not limited to, the following:

a. Roles and responsibilities of personnel associated with the warranty process, including points of contact and telephone numbers within the organizations of the Contractors, subcontractors, manufacturers or suppliers involved.

b. For each warranty, the name, address, telephone number, and e-mail of each of the guarantor's representatives nearest to the project location.

c. A list and status of delivery of Certificates of Warranty for extended warranty items, including roofs, HVAC balancing, pumps, motors, transformers, and for commissioned systems, such as fire protection and alarm systems, sprinkler systems, and lightning protection systems.

d. As-Built Record of Equipment and Materials list for each warranted equipment, item, feature of construction or system indicating:

(1) Name of item.
(2) Model and serial numbers.
(3) Location where installed.
(4) Name and phone numbers of manufacturers or suppliers.
(5) Names, addresses and telephone numbers of sources of spare parts.
(6) Warranties and terms of warranty. Include one-year overall warranty of construction, including the starting date of warranty of construction. Items which have warranties longer than one year must be indicated with separate warranty expiration dates.
(7) Cross-reference to warranty certificates as applicable.
(8) Starting point and duration of warranty period.
(9) Summary of maintenance procedures required to continue the warranty in force.
(10) Cross-reference to specific pertinent Operation and Maintenance manuals.
(11) Organization, names and phone numbers of persons to call for warranty service.
(12) Typical response time and repair time expected for various warranted equipment.

e. The plans for attendance at the 4 and 9 month post-construction warranty inspections conducted by the Government.

f. Procedure and status of tagging of equipment covered by warranties longer than one year.

g. Copies of instructions to be posted near selected pieces of equipment where operation is critical for warranty or safety reasons.

1.9.2 Performance Bond

The Performance Bond must remain effective throughout the construction and warranty period .

a. In the event the Contractor fails to commence and diligently pursue any construction warranty work required, the Contracting Officer will have the work performed by others, and after completion of the work, will charge the remaining construction warranty funds of expenses incurred by the Government while performing the work, including, but not limited to administrative expenses.

b. In the event sufficient funds are not available to cover the

construction warranty work performed by the Government at the Contractor's expense, the Contracting Officer will have the right to recoup expenses from the bonding company.

c. Following oral or written notification of required construction warranty repair work, respond in a timely manner. Written verification will follow oral instructions. Failure to respond will be cause for the Contracting Officer to proceed against the Contractor.

1.9.3 Pre-Warranty Conference

Prior to contract completion, and at a time designated by the Contracting Officer, meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of this section. At this meeting, establish and review communication procedures for Contractor notification of construction warranty defects, priorities with respect to the type of defect, reasonable time required for Contractor response, and other details deemed necessary by the Contracting Officer for the execution of the construction warranty In connection with these requirements and at the time of the Contractor's quality control completion inspection, furnish the name, telephone number and address of a licensed and bonded company which is authorized to initiate and pursue construction warranty work action on behalf of the Contractor. This point of contact must be located within the local service area of the warranted construction, be continuously available, and be responsive to Government inquiry on warranty work action and status. This requirement does not relieve the Contractor of any of its responsibilities in connection with other portions of this provision.

1.9.4 Contractor's Response to Construction Warranty Service Requirements

Following oral or written notification by the Contracting Officer, respond to construction warranty service requirements in accordance with the "Construction Warranty Service Priority List" and the three categories of priorities listed below. Submit a report on any warranty item that has been repaired during the warranty period. Include within the report the cause of the problem, date reported, corrective action taken, and when the repair was completed. If the Contractor does not perform the construction warranty within the timeframe specified, the Government will perform the work and back charge the construction warranty payment item established.

a. First Priority Code 1. Perform onsite inspection to evaluate situation, and determine course of action within 4 hours, initiate work within 6 hours and work continuously to completion or relief.

b. Second Priority Code 2. Perform onsite inspection to evaluate situation, and determine course of action within 8 hours, initiate work within 24 hours and work continuously to completion or relief.

c. Third Priority Code 3. All other work to be initiated within 3 work days and work continuously to completion or relief.

d. The "Construction Warranty Service Priority List" is as follows:

Code 1-Life Safety Systems
(1) Fire suppression systems.
(2) Fire alarm system(s) in place in the building.

Code 1-Air Conditioning Systems

(1) Recreational support.
(2) Air conditioning leak in part of building, if causing damage.
(3) Air conditioning system not cooling properly.

Code 1-Doors
(1) Overhead doors not operational, causing a security, fire, or safety problem.
(2) Interior, exterior personnel doors or hardware, not functioning properly, causing a security, fire, or safety problem.

Code 3-Doors
(1) Overhead doors not operational.
(2) Interior/exterior personnel doors or hardware not functioning properly.

Code 1-Electrical
(1) Power failure (entire area or any building operational after 1600 hours).
(2) Security lights
(3) Smoke detectors

Code 2-Electrical
(1) Power failure (no power to a room or part of building).
(2) Receptacle and lights (in a room or part of building).

Code 3-Electrical
Street lights.

Code 1-Gas
(1) Leaks and breaks.
(2) No gas to family housing unit or cantonment area.

Code 1-Heat
(1) Area power failure affecting heat.
(2) Heater in unit not working.

Code 2-Kitchen Equipment
(1) Dishwasher not operating properly.
(2) All other equipment hampering preparation of a meal.

Code 1-Plumbing
(1) Hot water heater failure.
(2) Leaking water supply pipes.

Code 2-Plumbing
(1) Flush valves not operating properly.
(2) Fixture drain, supply line to commode, or any water pipe leaking.
(3) Commode leaking at base.

Code 3 -Plumbing
Leaky faucets.

Code 3-Interior
(1) Floors damaged.
(2) Paint chipping or peeling.
(3) Casework.

Code 1-Roof Leaks
Temporary repairs will be made where major damage to property is

occurring.

Code 2-Roof Leaks
Where major damage to property is not occurring, check for location of leak during rain and complete repairs on a Code 2 basis.

Code 2-Water (Exterior)
No water to facility.

Code 2-Water (Hot)
No hot water in portion of building listed.

Code 3-All other work not listed above.

1.9.5 Warranty Tags

At the time of installation, tag each warranted item with a durable, oil and water resistant tag approved by the Contracting Officer. Attach each tag with a copper wire and spray with a silicone waterproof coating. Also, submit two record copies of the warranty tags showing the layout and design. The date of acceptance and the QC signature must remain blank until the project is accepted for beneficial occupancy. Show the following information on the tag.

Type of product/material	
Model number	
Serial number	
Contract number	
Warranty period from/to	
Inspector's signature	
Construction Contractor	
Address	
Telephone number	
Warranty contact	
Address	
Telephone number	
Warranty response time priority code	

WARNING - PROJECT PERSONNEL TO PERFORM ONLY OPERATIONAL MAINTENANCE DURING THE WARRANTY PERIOD.

PART 2 PRODUCTS

2.1 RECORD DRAWINGS

Prepare the CAD drawing files in AutoCAD Release 2019 format compatible with a Windows 10 operating system.

2.1.1 Additional Drawings

If additional drawings are required, prepare them using the specified electronic file format applying the same graphic standards specified for original drawings. The title block and drawing border to be used for any new final record drawings must be identical to that used on the contract drawings.

2.1.1.1 Sheet Numbers and File Names

If a sheet needs to be added between two sequential sheets, append a Supplemental Drawing Designator in accordance with ERDC/ITL TR-12-6 Adding a drawing sheet, and ERDC/ITL TR-12-1 Adding or deleting drawing sheets and index sheet procedures.

2.2 ADVANCED MODELING PACKAGE

For each Advanced Modeling Package submittal for both the Interim Record Model Package and the Final Record Model Package, submit in accordance with ERDC/ITL TR-12-6 and also provide the following items:

a. Advanced Modeling PxP: Provide an electronic copy of the most current approved version of the project Advanced Modeling PxP.

b. Electronic Files: Provide an electronic list (.txt file or similar), of all submitted electronic files including a description, directory, and file name for each file submitted. Identify which files have been produced from the Model and Facility Data. For all sheet files, include a list of the sheet titles and sheet numbers.

c. Advanced Modeling Submittal Checklist: Complete the USACE BIM/CIM Advanced Modeling Submittal Checklist and include with each submittal. Download the Checklist from the USACE CAD/BIM Technology Center website.

d. Advanced Modeling Files: Provide all native Advanced Modeling files associated with the production of the contract drawings and associated as-modeled drawings. Update and maintain in compliance with the Advanced Modeling formatting, content requirement, and standards in, in order to yield a complete and coordinated document package.

e. Quality Control (QC) Reports: Provide electronic PDFs of all QC reports and checklist utilized to ensure full compliance with the contract requirements and standards.

f. CAD Exports of BIM-Generated Sheets and Drawings: Provide supplemental 2D CAD exports from the project BIM model as needed to demonstrate

compliance with contract requirements.

2.3 CERTIFICATION OF EPA DESIGNATED ITEMS

Submit the Certification of EPA Designated Items as required by FAR 52.223-9 Estimate of Percentage of Recovered Material Content for EPA Designated Items and FAR 52-223-17 Affirmative Procurement of EPA designated items in Service and Construction Contracts. Include on the certification form the following information: project name, project number, Contractor name, license number, Contractor address, and certification. The certification will read as follows and be signed and dated by the Contractor. "I hereby certify the information provided herein is accurate and that the requisition/procurement of all materials listed on this form comply with current EPA standards for recycled/recovered materials content. The following exemptions may apply to the non-procurement of recycled/recovered content materials:

a. The product does not meet appropriate performance standards;

b. The product is not available within a reasonable time frame;

c. The product is not available competitively (from two or more sources);

d. The product is only available at an unreasonable price (compared with a comparable non-recycled content product)."

Record each product used in the project that has a requirement or option of containing recycled content in accordance with SECTION 01 33 29 SUSTAINABILITY REPORTING, noting total price, total value of post-industrial recycled content, total value of post-consumer recycled content, exemptions (a, b, c, or d, as indicated), and comments. Recycled content values may be determined by weight or volume percent, but must be consistent throughout.

2.4 CERTIFICATION OF USDA DESIGNATED ITEMS

Submit the Certification of USDA Designated Items as required by FAR 52-223-1 Bio-based Product Certifications and FAR 52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts. Include on the certification form the following information: project name, project number, Contractor name, license number, Contractor address, and certification. The certification will read as follows and be signed and dated by the Contractor. "I hereby certify the information provided herein is accurate and that the requisition/procurement of all materials listed on this form comply with current USDA standards for biobased materials content. The following exemptions may apply to the non-procurement of biobased content materials:

a. The product does not meet appropriate performance standards;

b. The product is not available within a reasonable time frame;

c. The product is not available competitively (from two or more sources);

d. The product is only available at an unreasonable price (compared with a comparable bio-based content product)."

Record each product used in the project that has a requirement or option of containing biobased content in accordance with SECTION 01 33 29

SUSTAINABILITY REPORTING, noting total price, total value of post-industrial recycled content, total value of post-consumer recycled content, total value of biobased content, exemptions (a, b, c, or d, as indicated), and comments. Biobased content values may be determined by weight or volume percent, but must be consistent throughout.

2.5 PDF AS-BUILT FILES

Provide electronic PDF "plots" of all contract drawings sheets associated with the as-built drawing submittal. Compile and organize the PDF set to match the contract drawings. Bookmark and label the pages of the PDF file.

2.5.1 PDF File Packaging

Utilize PDF file format in accordance with ISO 32000-1 and ISO 19005-3. Provide files from original sources, text-searchable, and saved in "Standard" (uncompressed) resolution whenever possible.

2.5.1.1 Bookmarking

a. Bookmark drawing submittal PDF sets to include one Parent Bookmark per Discipline and one Child Bookmark per sheet within each Discipline. Format Parent Bookmarks as "Discipline" (e.g. Architectural). Format Child Bookmarks as "Sheet ID Sheet Title" (e.g. A-101 First Floor Plan).

b. Bookmark specification submittal PDF sets using the SpecsIntact Print Processing PDF Print/Publish feature, combining processed sections into one PDF document. Insert the Submittal Register into the file where specified by Section 01 33 00 SUBMITTAL PROCEDURES and bookmark.

2.5.1.2 Hyperlinking

Hyperlink all reference annotation symbology (e.g. section cut symbology, detail callout symbology, elevation callout symbology) to the sheet referenced by the annotation.

2.6 REDLINES AND MARKUPS

Provide PDFs of the current working redlines and/or markups complying with the as-builts drawing and markup requirements contained in this specification.

2.7 AS-BUILT OR ADVANCED MODELING RE-SUBMISSION REQUIREMENTS

If elements of an as-built submittal or advanced modeling package are rejected, provide the following for each re-submission, in addition to any information required in Section 01 33 00 SUBMITTAL PROCEDURES:

a. Re-submit all components required under paragraph As-Builts or Advanced Modeling Package, including a new Advanced Modeling Submittal Checklist and updated content in response to Government comments.

b. Provide a copy of all Government review comments.

c. Provide a disposition/response to each Government review comment for a back-check of the re-submission deliverable.

PART 3 EXECUTION

3.1 AS-BUILT DRAWINGS

Provide and maintain two black line print copies of the PDF contract drawings for As-Built Drawings. Maintain the as-builts throughout construction as red-lined hard copies on site and red-lined PDF files. Submit As-Built Drawings 30 days prior to Beneficial Occupancy Date (BOD).

3.1.1 Markup Guidelines

Make comments and markup the drawings complete without reference to letters, memos, or materials that are not part of the As-Built drawing. Show what was changed, how it was changed, where item(s) were relocated and change related details. These working as-built markup prints must be neat, legible and accurate as follows:

a. Use base colors of red, green, and blue. Color code for changes as follows:

   (1) Special (Blue) - Items requiring special information, coordination, or special detailing or detailing notes.

   (2) Deletions (Red) - Over-strike deleted graphic items (lines), lettering in notes and leaders.

   (3) Additions (Green) - Added items, lettering in notes and leaders.

b. Provide a legend if colors other than the "base" colors of red, green, and blue are used.

c. Add and denote any additional equipment or material facilities, service lines, incorporated under As-Built Revisions if not already shown in legend.

d. Use frequent written explanations on markup drawings to describe changes. Do not totally rely on graphic means to convey the revision.

e. Use legible lettering and precise and clear digital values when marking prints and PDF files. Clarify ambiguities concerning the nature and application of change involved.

f. Wherever a revision is made, also make changes to related section views, details, legend, profiles, plans and elevation views, schedules, notes and call out designations, and mark accordingly to avoid conflicting data on all other sheets.

g. For deletions, cross out all features, data and captions that relate to that revision.

h. For changes on small-scale drawings and in restricted areas, provide large-scale inserts, with leaders to the applicable location.

i. Indicate one of the following when attaching a print or sketch to a markup print:

   1) Add an entire drawing to contract drawings

   2) Change the contract drawing to show

3) Provided for reference only to further detail the initial design.

j. Incorporate all shop and fabrication drawings into the markup drawings.

3.1.2 As-Built Drawings Content

Revise As-Built Drawings and red-lined PDF files in accordance with ERDC/ITL TR-12-1. Keep these working as-built markup drawings current on a weekly basis and at least one set available on the jobsite at all times. Changes from the contract drawings which are made during construction or additional information which might be uncovered in the course of construction must be accurately and neatly recorded as they occur by means of details and notes. Submit the working as-built markup drawings for approval prior to submission of each monthly pay estimate. For failure to maintain the working and final record drawings as specified herein, the Contracting Officer will withhold 10 percent of the monthly progress payment until approval of updated drawings. Show on the as-built drawings, but not limited to, the following information:

a. The actual location, kinds and sizes of all sub-surface utility lines. In order that the location of these lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, show by offset dimensions to two permanently fixed surface features the end of each run including each change in direction on the record drawings. Locate valves, splice boxes and similar appurtenances by dimensioning along the utility run from a reference point. Also record the average depth below the surface of each run.

b. The location and dimensions of any changes within the building structure.

c. Layout and schematic drawings of electrical circuits and piping.

d. Correct grade, elevations, cross section, or alignment of roads, earthwork, structures or utilities if any changes were made from contract plans.

e. Changes in details of design or additional information obtained from working drawings specified to be prepared or furnished by the Contractor; including but not limited to shop drawings, fabrication, erection, installation plans and placing details, pipe sizes, insulation material, dimensions of equipment, and foundations.

f. The topography, invert elevations and grades of drainage installed or affected as part of the project construction.

g. Changes or Revisions which result from the final inspection.

h. Where contract drawings or specifications present options, show only the option selected for construction on the working as-built markup drawings.

i. If borrow material for this project is from sources on Government property, or if Government property is used as a spoil area, furnish a contour map of the final borrow pit/spoil area elevations.

j. Systems designed or enhanced by the Contractor, such as HVAC controls,

fire alarm, fire sprinkler, and irrigation systems.

k. Changes in location of equipment and architectural features.

l. Modifications.

m. Actual location of anchors, construction and control joints, etc., in concrete.

n. Unusual or uncharted obstructions that are encountered in the contract work area during construction.

o. Location, extent, thickness, and size of stone protection particularly where it will be normally submerged by water.

p. Installed manufacturer information: Manufacturer information must include Manufacturer Name, Model, Serial Number as applicable based on elements already modeled in final design BIM model. See "USAG WEST POINT - NEW EQUIPMENT INVENTORY" table, in this section, for the complete list of information that must be provided.

-Architecture: Windows, Doors and related Hardware, Reflected Ceiling, Manufactured Casework, Restroom Partitions and Accessories (Architecture Models)

-Mechanical: Scheduled Equipment (Mechanical Models)

-Plumbing: Scheduled Equipment (Plumbing Models); Restroom/Kitchen Fixtures: Sinks, Faucets, Toilets, Shower Equipment: Drinking Fountains (Plumbing/Mechanical Models)

-Electrical: Power (generator / UPS / unit substation / transformers / switchboards /overcurrent protection devices) - Lighting (occupancy sensors / fixtures) - Fire Alarm (entire system minus cabling - all devices and panels) - Access Control (card readers / control panels / power supplies / access control door hardware) - Telecommunications (racks / patch panels / 110 blocks / jacks)

-Fire Protection: Mains and Standpipes 2" inches or greater, fire pumps and other scheduled equipment.

-Lab Equipment: Scheduled Equipment - Group I Equipment (Spec 11 53 00), Piping valves, Laboratory service fittings and emergency fixtures; Custom Built Lab Furnishings Manufacturer (Lab Models: Equipment & Plumbing)

3.2 RECORD DRAWING FILES

If additional drawings are required, prepare them using the specified electronic file format applying the same graphic standards specified for original drawings. The title block and drawing border to be used for any new final record drawings must be identical to that used on the contract drawings. Accomplish additions and corrections to the contract drawings using CAD files. Provide all program files and hardware necessary to prepare final PDF record drawings. The Contracting Officer will review final PDF record drawings for accuracy and return them to the Contractor for required corrections, changes, additions, and deletions.

3.2.1 Rename the CAD Drawing files

Rename the CAD Drawing files using the contract number as the Project Code field,(e.g., W91238-15-C-10A-102.DWG) as instructed in the Pre-Construction conference. Use only those renamed files for the Marked-up changes. Make all changes on the layer/level as the original item.

a. For AutoCAD files (DWG), enter all as-built delta changes and notations on the AS-BUILT layer.

b. When final revisions have been completed, show the wording "RECORD DRAWING AS-BUILTS" followed by the name of the Contractor in letters at least 3/16 inch high on the cover sheet drawing. Date RECORD DRAWING AS-BUILTS" drawing revisions in the revision block.

c. Within 20 days after Government approval of all of the working record drawings for a phase of work, prepare the final CAD record drawings for that phase of work and submit PDF drawing files and two sets of prints for review and approval. The Government will promptly return one set of prints and PDF files annotated with any necessary corrections. Within 10 days revise the CAD files accordingly at no additional cost and submit one set of final prints and PDF files for the completed phase of work to the Government. Within 20 days of substantial completion of all phases of work, submit the final record drawing package for the entire project. Submit one set of electronic CAD files, and one set of the approved working record PDF files , via email on PDF format. The CAD files must be complete in all details and identical in form and function to the CAD drawing files supplied by the Government. Prepare AutoCAD files for transmittal using e-Transmit. Make any transactions or adjustments necessary to accomplish this. The Government reserves the right to reject any drawing files it deems incompatible with the customer's CAD system. Paper prints, drawing files and storage media submitted will become the property of the Government upon final approval. Failure to submit final record PDF drawing files, CAD files and marked prints as specified will be cause for withholding any payment due under this contract. Approval and acceptance of final record drawings must be accomplished before final payment is made.

3.3 RECORD DRAWINGS

Prepare final record drawings after the completion of each definable feature of work as listed in the Contractor Quality Control Plan (such as Foundations, Utilities, or Structural Steel as appropriate for the project). Transfer the changes from the approved working as-built markup drawings to the original electronic CAD drawing files. Modify the as-built CAD drawing files to correctly show the features of the project as-built by bringing the working CAD drawing set into agreement with approved working as-built markup drawings, and adding such additional drawings as may be necessary. Refer to ERDC/ITL TR-12-1. Jointly review the working as-built markup drawings with printouts from working as-built CAD drawing PDF files for accuracy and completeness. Monthly review of working as-built CAD drawing PDF file printouts must cover all sheets revised since the previous review. These PDF drawing files are part of the permanent records of this project. Any drawings damaged or lost must be satisfactorily replaced at no expense to the Government.

Drawing revisions (include within change order price the cost to change

working and final record drawings to reflect revisions) and compliance with the following procedures.

a. Follow directions in the revision for posting descriptive changes.

b. The revision delta size must be 5/16 inch unless the area where the delta is to be placed is crowded. Use a smaller size delta for crowded areas.

c. Place a revision delta at the location of each deletion.

d. For new details or sections which are added to a drawing, place a revision delta by the detail or section title.

e. For minor changes, place a revision delta by the area changed on the drawing (each location).

f. For major changes to a drawing, place a revision delta by the title of the affected plan, section, or detail at each location.

g. For changes to schedules or drawings, place a revision delta either by the schedule heading or by the change in the schedule.

3.3.1 Final Record Drawing Package

Submit the final record PDF and CAD drawings package for the entire project within 20 days of substantial completion of all phases of work. Submit five sets of ANSI D size PDF and CAD files on optical disc, read-only memory (ROM), two sets of ANSI D size prints and one set of the approved working record drawings. The package must be complete in all details and identical in form and function to the contract drawing files supplied by the Government.

3.4 FINAL APPROVED SHOP DRAWINGS

Submit final approved project shop drawings 30 days after transfer of the completed facility. Failure to submit final record PDF specification files, PDF files as specified will be cause for withholding payment due under thssssis contract. Approval and acceptance of final record construction contract specifications must be accomplished before final payment is made.

3.5 CONSTRUCTION CONTRACT SPECIFICATIONS

Submit final PDF file record construction contract specifications, including revisions thereto, 30 days after transfer of the completed facility. Failure to submit final record PDF specification files, PDF files as specified will be cause for withholding payment due under this contract. Approval and acceptance of final record construction contract specifications must be accomplished before final payment is made.

3.6 AS-BUILT RECORD OF EQUIPMENT AND MATERIALS

Furnish electronically in PDF format, via email the preliminary record of equipment and materials used on the project 15 days prior to final inspection. This preliminary submittal will be reviewed and returned 2 days after final inspection with Government comments. Submit Two sets of final record of equipment and materials 10 days after final inspection. Key the designations to the related area depicted on the contract

drawings. Contractor is required to complete and submit the DPW Equipment Inventory Spreadsheet with the final as-builts. See attached spreadsheet.

USAG WEST POINT - NEW EQUIPMENT INVENTORY												
EQ CAT	DESCRIPTION	LOCATION			EXP LIFE (YRS)	WARRANTY (MONTH/YR)		REPLACEMENT		EQ TAG	O&M MAN #	ADD'L INFO
		BLDG #	FL #	RM #		START DT	END DT	YES/ NO	DESC			
0	SAMPLE ITM	9999	01	100	10	01/20	01/30	NO	--	WP001	0001	--

USAG WEST POINT - NEW EQUIPMENT INVENTORY (Cont.)									
EQ CAT	DESCRIPTION	RPIE DT	MFG NAME	MFG COUNTRY	MODEL #	MFG PART #	MFG SERIAL #	WEIGHT (LBS)	SIZE DIM CAP
0	SAMPLE ITM	01/01/20	WASHUP	USA	MDL28	00000	00000	100	200

NEW EQUIPMENT INVENTORY - DESCRIPTIONS

EQ CAT: Enter a number specifying the category of equipment:
1 - Conveying Systems, 2 - Plumbing, 3 - HVAC, 4 - Fire Protection, 5 - Electrical, 6 - Kitchen, 7 - Storage System, 8 - Mechanical, 9 - Vehicle Maintenance, A - Grounds, B - Overhead Doors, C - Other

DESCRIPTION: Enter a description for the piece of equipment. (40 CHAR MAX)

LOCATION: Describe the location of this piece of equipment with the most detail possible. In some instances, floor and/or room numbers will not be appropriate.

EXP LIFE: How long is the piece of equipment expected to operate effectively? Report in years.

WARRANTY: If there is an active warranty on the item, enter the beginning and end dates in MM/DD/YYYY format.

REPLACEMENT (YES/NO): Is this piece of equipment replacing an existing piece of equipment? Enter Y or N

REPLACEMENT (DESC): Describe the old piece of equipment with as much detail as possible - location, make, model, capacity, etc.

EQ TAG: Include information located on equipment tag (local numbering system)

O&M MAN #: Title/volume number of where to locate information on this specific piece of equipment in the Operations and Maintenance manuals.

ADD'L INFO: Insert any additional, necessary information. This may include the local numbering system or a characterizing feature.

RPIE DT: Enter the date on which the equipment became or will become the property of the government. Report in MM/DD/YYYY format.

MFG NAME: Enter the Manufacturer

MFG COUNTRY: Enter Manufacturing Country US, MX, etc.

MODEL #: Enter Model Number

MFG PART #: Enter Manufacturer Part Number

MFG SERIAL #: Enter Manufacturer Serial Number

WEIGHT: Weight of the piece of equipment in lbs

SIZE / DIM / CAP: Size/Dimension/Capacity, Include units of measurement.

3.7 OPERATION AND MAINTENANCE MANUALS

Provide project operation and maintenance manuals as specified in Section 01 78 23 OPERATION AND MAINTENANCE DATA. Provide four electronic copies of the Operation and Maintenance Manual files and three hard copy of the Operation and Maintenance Manuals. Submit to the Contracting Officer for approval within 30 calendar days of the Beneficial Occupancy Date (BOD). Update and resubmit files for final approval at BOD.

3.8 CLEANUP

Leave premises "broom clean." Clean interior and exterior glass surfaces exposed to view; remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces; vacuum carpeted and soft surfaces. Clean equipment and fixtures to a sanitary condition. Replace filters of operating equipment. Clean debris from roofs, gutters, downspouts and drainage systems. Sweep paved areas and rake clean landscaped areas. Remove waste and surplus materials, rubbish and construction facilities from the site..

3.9 REAL PROPERTY RECORD

Refer to UFC 1-300-08 for instruction on completing the DD FORM 1354. Contact the Contracting Officer for any project specific information necessary to complete the DD FORM 1354.

3.9.1 Interim DD FORM 1354

Near the completion of Project, but a minimum of 60 days prior to final acceptance of the work, complete, update draft DD FORM 1354 attached to this section, and submit an accounting of all installed property with Interim DD FORM 1354. Include any additional assets, improvements, and alterations from the Draft DD FORM 1354.

3.9.2 Completed DD FORM 1354

Attach the Real Property receiving Component's completed High Performance and Sustainable Building (HPSB) Checklist for each applicable building to

the completed DD 1354, in accordance with Section 01 33 29 SUSTAINABILITY REPORTING. For convenience, a blank fillable PDF DD FORM 1354 may be obtained at the following link: www.esd.whs.mil/Portals/54/Documents/DD/forms/dd/dd1354.pdf

Submit the completed Checklist for DD FORM 1354 of Installed Building Equipment items. Attach this list to the updated DD FORM 1354.

3.10 FINAL ACCEPTANCE

Failure to make an acceptable submission of Record Drawings will delay the Final Acceptance Inspection for the project and must be cause for withholding any payment due the Contractor under this contract.

3.11 PROPERTY

Paper prints, reproducible drawings and CAD files will become property of the Government upon final approval. Approval and acceptance of the final record drawings must be accomplished before final payment is made to the Contractor.

3.12 PAYMENT

No separate payment will be made for the as-built and record drawings or updating of CAD files required under this contract, and all costs in connection therewith must be considered a subsidiary obligation of the Contractor.

-- End of Section --

SECTION 01 78 23

OPERATION AND MAINTENANCE DATA
08/15

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-10 Operation and Maintenance Data

O&M Database; G, RO

Training Plan; G, RO

Training Outline; G, RO

Training Content; G, RO

SD-11 Closeout Submittals

Training Video Recording; G, RO

Validation of Training Completion; G, RO

1.2 OPERATION AND MAINTENANCE DATA

Submit Operation and Maintenance (O&M) Data for the provided equipment, product, or system, defining the importance of system interactions, troubleshooting, and long-term preventive operation and maintenance. Compile, prepare, and aggregate O&M data to include clarifying and updating the original sequences of operation to as-built conditions. Organize and present information in sufficient detail to clearly explain O&M requirements at the system, equipment, component, and subassembly level. Include an index preceding each submittal. Submit in accordance with this section and Section 01 33 00 SUBMITTAL PROCEDURES.

1.2.1 Package Quality

Documents must be fully legible. Operation and Maintenance data must be consistent with the manufacturer's standard brochures, schematics, printed instructions, general operating procedures, and safety precautions.

1.2.2 Package Content

Provide data package content in accordance with paragraph SCHEDULE OF OPERATION AND MAINTENANCE DATA PACKAGES. Comply with the data package requirements specified in the individual technical sections, including the content of the packages and addressing each product, component, and system designated for data package submission, except as follows. Use Data

Package 5 for commissioned items without a specified data package requirement in the individual technical sections. Provide a Data Package 5 instead of Data Package 1 or 2, as specified in the individual technical section, for items that are commissioned.

1.2.3 Changes to Submittals

Provide manufacturer-originated changes or revisions to submitted data if a component of an item is so affected subsequent to acceptance of the O&M Data. Submit changes, additions, or revisions required by the Contracting Officer for final acceptance of submitted data within 30 calendar days of the notification of this change requirement.

1.2.4 Commissioning Authority Review and Approval

Submit the commissioned systems and equipment submittals to the Commissioning Authority (CxA) to review for completeness and applicability. Obtain validation from the CxA that the systems and equipment provided meet the requirements of the Contract documents and design intent, particularly as they relate to functionality, energy performance, water performance, maintainability, sustainability, system cost, indoor environmental quality, and local environmental impacts. The CxA communicates deficiencies to the Contracting Officer. Submit the O&M manuals to the Contracting Officer upon a successful review of the corrections, and with the CxA recommendation for approval and acceptance of these O&M manuals. This work is in addition to the normal review procedures for O&M data.

1.3 O&M DATABASE

Develop an editable, electronic spreadsheet based on the equipment in the Operation and Maintenance Manuals that contains the information required to start a preventive maintenance program. As a minimum, provide list of system equipment, location installed, warranty expiration date, manufacturer, model, and serial number.

1.4 OPERATION AND MAINTENANCE MANUAL FILE FORMAT

Assemble data packages into electronic Operation and Maintenance Manuals. Assemble each manual into a composite electronically indexed file using the most current version of Adobe Acrobat or similar software capable of producing PDF file format. Provide compact disks (CD) or data digital versatile disk (DVD) as appropriate, so that each one contains operation, maintenance and record files, project record documents, and training videos. Include a complete electronically linked operation and maintenance directory.

1.4.1 Organization

Bookmark Product and Drawing Information documents using the current version of CSI MasterFormat numbering system, and arrange submittals using the specification sections as a structure. Use CSI MasterFormat and UFGS numbers along with descriptive bookmarked titles that explain the content of the information that is being bookmarked.

1.4.2 CD or DVD Label and Disk Holder or Case

Provide the following information on the disk label and disk holder or case:

a. Building Number

b. Project Title

c. Activity and Location

d. Construction Contract Number

e. Prepared For: (Contracting Agency)

f. Prepared By: (Name, title, phone number and email address)

g. Include the disk content on the disk label

h. Date

i. Virus scanning program used

1.5 TYPES OF INFORMATION REQUIRED IN O&M DATA PACKAGES

The following are a detailed description of the data package items listed in paragraph SCHEDULE OF OPERATION AND MAINTENANCE DATA PACKAGES.

1.5.1 Operating Instructions

Provide specific instructions, procedures, and illustrations for the following phases of operation for the installed model and features of each system:

1.5.1.1 Safety Precautions and Hazards

List personnel hazards and equipment or product safety precautions for operating conditions. List all residual hazards identified in the Activity Hazard Analysis provided under Section 01 35 26 GOVERNMENT SAFETY REQUIREMENTS. Provide recommended safeguards for each identified hazard.

1.5.1.2 Operator Prestart

Provide procedures required to install, set up, and prepare each system for use.

1.5.1.3 Startup, Shutdown, and Post-Shutdown Procedures

Provide narrative description for Startup, Shutdown and Post-shutdown operating procedures including the control sequence for each procedure.

1.5.1.4 Normal Operations

Provide Control Diagrams with data to explain operation and control of systems and specific equipment. Provide narrative description of Normal Operating Procedures.

1.5.1.5 Emergency Operations

Provide Emergency Procedures for equipment malfunctions to permit a short period of continued operation or to shut down the equipment to prevent further damage to systems and equipment. Provide Emergency Shutdown Instructions for fire, explosion, spills, or other foreseeable

contingencies. Provide guidance and procedures for emergency operation of utility systems including required valve positions, valve locations and zones or portions of systems controlled.

1.5.1.6 Operator Service Requirements

Provide instructions for services to be performed by the operator such as lubrication, adjustment, inspection, and recording gauge readings.

1.5.1.7 Environmental Conditions

Provide a list of Environmental Conditions (temperature, humidity, and other relevant data) that are best suited for the operation of each product, component or system. Describe conditions under which the item equipment should not be allowed to run.

1.5.1.8 Operating Log

Provide forms, sample logs, and instructions for maintaining necessary operating records.

1.5.1.9 Additional Requirements for HVAC Control Systems

Provide Data Package 5 and the following for control systems:

a. Narrative description on how to perform and apply functions, features, modes, and other operations, including unoccupied operation, seasonal changeover, manual operation, and alarms. Include detailed technical manual for programming and customizing control loops and algorithms.

b. Full as-built sequence of operations.

c. Copies of checkout tests and calibrations performed by the Contractor (not Cx tests).

d. Full points list. Provide a listing of rooms with the following information for each room:

(1) Floor

(2) Room number

(3) Room name

(4) Air handler unit ID

(5) Reference drawing number

(6) Air terminal unit tag ID

(7) Heating or cooling valve tag ID

(8) Minimum cfm

(9) Maximum cfm

e. Full print out of all schedules and set points after testing and acceptance of the system.

f. Full as-built print out of software program.

g. Marking of system sensors and thermostats on the as-built floor plan and mechanical drawings with their control system designations.

1.5.2 Preventive Maintenance

Provide the following information for preventive and scheduled maintenance to minimize repairs for the installed model and features of each system. Include potential environmental and indoor air quality impacts of recommended maintenance procedures and materials.

1.5.2.1 Lubrication Data

Include the following preventive maintenance lubrication data, in addition to instructions for lubrication required under paragraph OPERATOR SERVICE REQUIREMENTS:

a. A table showing recommended lubricants for specific temperature ranges and applications.

b. Charts with a schematic diagram of the equipment showing lubrication points, recommended types and grades of lubricants, and capacities.

c. A Lubrication Schedule showing service interval frequency.

1.5.2.2 Preventive Maintenance Plan, Schedule, and Procedures

Provide manufacturer's schedule for routine preventive maintenance, inspections, condition monitoring (predictive tests) and adjustments required to ensure proper and economical operation and to minimize repairs. Provide instructions stating when the systems should be retested. Provide manufacturer's projection of preventive maintenance work-hours on a daily, weekly, monthly, and annual basis including craft requirements by type of craft. For periodic calibrations, provide manufacturer's specified frequency and procedures for each separate operation.

a. Define the anticipated time required to perform each of each test (work-hours), test apparatus, number of personnel identified by responsibility, and a testing validation procedure permitting the record operation capability requirements within the schedule. Provide a remarks column for the testing validation procedure referencing operating limits of time, pressure, temperature, volume, voltage, current, acceleration, velocity, alignment, calibration, adjustments, cleaning, or special system notes. Delineate procedures for preventive maintenance, inspection, adjustment, lubrication and cleaning necessary to minimize repairs.

b. Repair requirements must inform operators how to check out, troubleshoot, repair, and replace components of the system. Include electrical and mechanical schematics and diagrams and diagnostic techniques necessary to enable operation and troubleshooting of the system after acceptance.

1.5.3 Repair

Provide manufacturer's recommended procedures and instructions for correcting problems and making repairs.

1.5.3.1 Troubleshooting Guides and Diagnostic Techniques

Provide step-by-step procedures to promptly isolate the cause of typical malfunctions. Describe clearly why the checkout is performed and what conditions are to be sought. Identify tests or inspections and test equipment required to determine whether parts and equipment may be reused or require replacement.

1.5.3.2 Wiring Diagrams and Control Diagrams

Provide point-to-point drawings of wiring and control circuits including factory-field interfaces. Provide a complete and accurate depiction of the actual job specific wiring and control work. On diagrams, number electrical and electronic wiring and pneumatic control tubing and the terminals for each type, identically to actual installation configuration and numbering.

1.5.3.3 Repair Procedures

Provide instructions and a list of tools required to repair or restore the product or equipment to proper condition or operating standards.

1.5.3.4 Removal and Replacement Instructions

Provide step-by-step procedures and a list of required tools and supplies for removal, replacement, disassembly, and assembly of components, assemblies, subassemblies, accessories, and attachments. Provide tolerances, dimensions, settings and adjustments required. Use a combination of text and illustrations.

1.5.3.5 Spare Parts and Supply Lists

Provide lists of spare parts and supplies required for repair to ensure continued service or operation without unreasonable delays. Special consideration is required for facilities at remote locations. List spare parts and supplies that have a long lead-time to obtain.

1.5.3.6 Repair Work-Hours

Provide manufacturer's projection of repair work-hours including requirements by type of craft. Identify, and tabulate separately, repair that requires the equipment manufacturer to complete or to participate.

1.5.4 Real Property Equipment

Provide a list of installed equipment furnished under this contract. Include all information usually listed on manufacturer's name plate. In the "EQUIPMENT-IN-PLACE LIST" include, as applicable, the following for each piece of equipment installed: description of item, location (by room number), model number, serial number, capacity, name and address of manufacturer, name and address of equipment supplier, condition, spare parts list, manufacturer's catalog, and warranty. Submit the final list 30 days after transfer of the completed facility.

Key the designations to the related area depicted on the contract drawings. List the following data:

USAG WEST POINT - NEW EQUIPMENT INVENTORY												
EQ CAT	DESCRIPTION	LOCATION			EXP LIFE (YRS)	WARRANTY (MONTH/YR)		REPLACEMENT		EQ TAG	O&M MAN #	ADD'L INFO
		BLDG #	FL #	RM #		START DT	END DT	YES/ NO	DESC			
0	SAMPLE ITM	9999	01	100	10	01/20	01/30	NO	--	WP001	0001	--

USAG WEST POINT - NEW EQUIPMENT INVENTORY (Cont.)									
EQ CAT	DESCRIPTION	RPIE DT	MFG NAME	MFG COUNTRY	MODEL #	MFG PART #	MFG SERIAL #	WEIGHT (LBS)	SIZE DIM CAP
0	SAMPLE ITM	01/01/20	WASHUP	USA	MDL28	00000	00000	100	200

NEW EQUIPMENT INVENTORY - DESCRIPTIONS

EQ CAT: Enter a number specifying the category of equipment: 1 - Conveying Systems, 2 - Plumbing, 3 - HVAC, 4 - Fire Protection, 5 - Electrical, 6 - Kitchen, 7 - Storage System, 8 - Mechanical, 9 - Vehicle Maintenance, A - Grounds, B - Overhead Doors, C - Other

DESCRIPTION: Enter a description for the piece of equipment. (40 CHAR MAX)

LOCATION: Describe the location of this piece of equipment with the most detail possible. In some instances, floor and/or room numbers will not be appropriate.

EXP LIFE: How long is the piece of equipment expected to operate effectively? Report in years.

WARRANTY: If there is an active warranty on the item, enter the beginning and end dates in MM/DD/YYYY format.

REPLACEMENT (YES/NO): Is this piece of equipment replacing an existing piece of equipment? Enter Y or N

REPLACEMENT (DESC): Describe the old piece of equipment with as much detail as possible - location, make, model, capacity, etc.

EQ TAG: Include information located on equipment tag (local numbering system)

O&M MAN #: Title/volume number of where to locate information on this specific piece of equipment in the Operations and Maintenance manuals.

ADD'L INFO: Insert any additional, necessary information. This may

include the local numbering system or a characterizing feature.

RPIE DT: Enter the date on which the equipment became or will become the property of the government. Report in MM/DD/YYYY format.

MFG NAME: Enter the Manufacturer

MFG COUNTRY: Enter Manufacturing Country US, MX, etc.

MODEL #: Enter Model Number

MFG PART #: Enter Manufacturer Part Number

MFG SERIAL #: Enter Manufacturer Serial Number

WEIGHT: Weight of the piece of equipment in lbs

SIZE / DIM / CAP: Size/Dimension/Capacity, Include units of measurement.

Sample form is attached and it will be provided electronically.

1.5.5 Appendices

Provide information required below and information not specified in the preceding paragraphs but pertinent to the maintenance or operation of the product or equipment. Include the following:

1.5.5.1 Product Submittal Data

Provide a copy of SD-03 Product Data submittals documented with the required approval.

1.5.5.2 Certificates

Provide a copy of SD-07 Certificates submittals documented with the required approval.

1.5.5.3 Manufacturer's Instructions

Provide a copy of SD-08 Manufacturer's Instructions submittals documented with the required approval.

1.5.5.4 O&M Submittal Data

Provide a copy of SD-10 Operation and Maintenance Data submittals documented with the required approval.

1.5.5.5 Parts Identification

Provide identification and coverage for the parts of each component, assembly, subassembly, and accessory of the end items subject to replacement. Include special hardware requirements, such as requirement to use high-strength bolts and nuts. Identify parts by make, model, serial number, and source of supply to allow reordering without further identification. Provide clear and legible illustrations, drawings, and exploded views to enable easy identification of the items. When illustrations omit the part numbers and description, both the illustrations and separate listing must show the index, reference, or key

number that will cross-reference the illustrated part to the listed part. Group the parts shown in the listings by components, assemblies, and subassemblies in accordance with the manufacturer's standard practice. Parts data may cover more than one model or series of equipment, components, assemblies, subassemblies, attachments, or accessories, such as typically shown in a master parts catalog.

1.5.5.6 Warranty Information

List and explain the various warranties and clearly identify the servicing and technical precautions prescribed by the manufacturers or contract documents in order to keep warranties in force. Include warranty information for primary components of the system. Provide copies of warranties required by Section 01 78 00 CLOSEOUT SUBMITTALS.

1.5.5.7 Extended Warranty Information

List all warranties for products, equipment, components, and sub-components whose duration exceeds one year. For each warranty listed, indicate the applicable specification section, duration, start date, end date, and the point of contact for warranty fulfillment. Also, list or reference the specific operation and maintenance procedures that must be performed to keep the warranty valid. Provide copies of warranties required by Section 01 78 00 CLOSEOUT SUBMITTALS.

1.5.5.8 Personnel Training Requirements

Provide information available from the manufacturers that is needed for use in training designated personnel to properly operate and maintain the equipment and systems.

1.5.5.9 Testing Equipment and Special Tool Information

Include information on test equipment required to perform specified tests and on special tools needed for the operation, maintenance, and repair of components. Provide final set points.

1.5.5.10 Testing and Performance Data

Include completed prefunctional checklists, functional performance test forms, and monitoring reports. Include recommended schedule for retesting and blank test forms. Provide final set points.

1.5.5.11 Field Test Reports and Manufacturer's Field Reports

Provide a copy of Field Test Reports (SD-06) and Manufacturer's Field Reports (SD-09) submittals documented with the required approval.

1.5.5.12 Contractor Information

Provide a list that includes the name, address, and telephone number of the General Contractor and each Subcontractor who installed the product or equipment, or system. For each item, also provide the name address and telephone number of the manufacturer's representative and service organization that can provide replacements most convenient to the project site. Provide the name, address, and telephone number of the product, equipment, and system manufacturers.

1.6 SCHEDULE OF OPERATION AND MAINTENANCE DATA PACKAGES

Provide the O&M data packages specified in individual technical sections. The information required in each type of data package follows:

1.6.1 Data Package 1

a. Safety precautions and hazards

b. Cleaning recommendations

c. Maintenance and repair procedures

d. Warranty information

e. Extended warranty information

f. Contractor information

g. Spare parts and supply list

1.6.2 Data Package 2

a. Safety precautions and hazards

b. Normal operations

c. Environmental conditions

d. Lubrication data

e. Preventive maintenance plan, schedule, and procedures

f. Cleaning recommendations

g. Maintenance and repair procedures

h. Removal and replacement instructions

i. Spare parts and supply list

j. Parts identification

k. Warranty information

l. Extended warranty information

m. Contractor information

1.6.3 Data Package 3

a. Safety precautions and hazards

b. Operator prestart

c. Startup, shutdown, and post-shutdown procedures

d. Normal operations

e. Emergency operations

f. Environmental conditions

g. Operating log

h. Lubrication data

i. Preventive maintenance plan, schedule, and procedures

j. Cleaning recommendations

k. Troubleshooting guides and diagnostic techniques

l. Wiring diagrams and control diagrams

m. Maintenance and repair procedures

n. Removal and replacement instructions

o. Spare parts and supply list

p. Product submittal data

q. O&M submittal data

r. Parts identification

s. Warranty information

t. Extended warranty information

u. Testing equipment and special tool information

v. Testing and performance data

w. Contractor information

x. Field test reports

1.6.4 Data Package 4

a. Safety precautions and hazards

b. Operator prestart

c. Startup, shutdown, and post-shutdown procedures

d. Normal operations

e. Emergency operations

f. Operator service requirements

g. Environmental conditions

h. Operating log

i. Lubrication data

j. Preventive maintenance plan, schedule, and procedures

k. Cleaning recommendations

l. Troubleshooting guides and diagnostic techniques

m. Wiring diagrams and control diagrams

n. Repair procedures

o. Removal and replacement instructions

p. Spare parts and supply list

q. Repair work-hours

r. Product submittal data

s. O&M submittal data

t. Parts identification

u. Warranty information

v. Extended warranty information

w. Personnel training requirements

x. Testing equipment and special tool information

y. Testing and performance data

z. Contractor information

aa. Field test reports

1.6.5 Data Package 5

a. Safety precautions and hazards

b. Operator prestart

c. Start-up, shutdown, and post-shutdown procedures

d. Normal operations

e. Environmental conditions

f. Preventive maintenance plan, schedule, and procedures

g. Troubleshooting guides and diagnostic techniques

h. Wiring and control diagrams

i. Maintenance and repair procedures

j. Removal and replacement instructions

k. Spare parts and supply list

l. Product submittal data

m. Manufacturer's instructions

n. O&M submittal data

o. Parts identification

p. Testing equipment and special tool information

q. Warranty information

r. Extended warranty information

s. Testing and performance data

t. Contractor information

u. Field test reports

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 TRAINING

Prior to acceptance of the facility by the Contracting Officer for Beneficial Occupancy, provide comprehensive training for the systems and equipment specified in the technical specifications. The training must be targeted for the building maintenance personnel, and applicable building occupants. Instructors must be well-versed in the particular systems that they are presenting. Address aspects of the Operation and Maintenance Manual submitted in accordance with Section 01 78 00 CLOSEOUT SUBMITTALS.. Training must include classroom or field lectures based on the system operating requirements. The location of classroom training requires approval by the Contracting Officer.

3.1.1 Training Plan

Submit a written training plan to the Contracting Officer for approval at least 60 calendar days prior to the scheduled training. Training plan must be approved by the Quality Control Manager (QC) prior to forwarding to the Contracting Officer. Also, coordinate the training schedule with the Contracting Officer and QC. Include within the plan the following elements:

a. Equipment included in training

b. Intended audience

c. Location of training

d. Dates of training

e. Objectives

f. Outline of the information to be presented and subjects covered including description

g. Start and finish times and duration of training on each subject

h. Methods (e.g. classroom lecture, video, site walk-through, actual operational demonstrations, written handouts)

i. Instructor names and instructor qualifications for each subject

j. List of texts and other materials to be furnished by the Contractor that are required to support training

k. Description of proposed software to be used for video recording of training sessions.

3.1.2 Training Content

The core of this training must be based on manufacturer's recommendations and the operation and maintenance information. The QC is responsible for overseeing and approving the content and adequacy of the training. Spend 95 percent of the instruction time during the presentation on the OPERATION AND MAINTENANCE DATA. Include the following for each system training presentation:

a. Start-up, normal operation, shutdown, unoccupied operation, seasonal changeover, manual operation, controls set-up and programming, troubleshooting, and alarms.

b. Relevant health and safety issues.

c. Discussion of how the feature or system is environmentally responsive. Advise adjustments and optimizing methods for energy conservation.

d. Design intent.

e. Use of O&M Manual Files.

f. Review of control drawings and schematics.

g. Interactions with other systems.

h. Special maintenance and replacement sources.

i. Tenant interaction issues.

3.1.3 Training Outline

Provide the Operation and Maintenance Manual Files (Bookmarked PDF) and a written course outline listing the major and minor topics to be discussed by the instructor on each day of the course to each trainee in the course. Provide the course outline 14 calendar days prior to the training.

3.1.4 Training Video Recording

Record classroom training session(s) on video. Provide to the Contracting Officer two copies of the training session(s) in DVD video recording

format. Capture within the recording, in video and audio, the instructors' training presentations including question and answer periods with the attendees. The recording camera(s) must be attended by a person during the recording sessions to assure proper size of exhibits and projections during the recording are visible and readable when viewed as training.

3.1.5 Unresolved Questions from Attendees

If, at the end of the training course, there are questions from attendees that remain unresolved, the instructor must send the answers, in writing, to the Contracting Officer for transmittal to the attendees, and the training video must be modified to include the appropriate clarifications.

3.1.6 Validation of Training Completion

Ensure that each attendee at each training session signs a class roster daily to confirm Government participation in the training. At the completion of training, submit a signed validation letter that includes a sample record of training for reporting what systems were included in the training, who provided the training, when and where the training was performed, and copies of the signed class rosters. Provide two copies of the validation to the Contracting Officer, and one copy to the Operation and Maintenance Manual Preparer for inclusion into the Manual's documentation.

3.1.7 Quality Control Coordination

Coordinate this training with the QC in accordance with Section 01 45 00.00 10 QUALITY CONTROL.

-- End of Section --

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SECTION 01 78 24.00 10

FACILITY DATA REQUIREMENTS
05/18

PART 1 GENERAL

This specification requires the collection, organization, and turnover of electronic Facility Data for specific assets designed and constructed as part of this contract. Provide a Facility Document Set (FDS) and Facility Data Workbook (FDW) as defined in this specification. See Sections 01 33 00 SUBMITTAL PROCEDURES, 01 78 00 CLOSEOUT SUBMITTALS, and 01 78 23 OPERATION AND MAINTENANCE DATA, for additional Facility Data delivery requirements.

1.1 DEFINITIONS AND ABBREVIATIONS

1.1.1 Assets

Assets are specific items of property or equipment.

1.1.2 Attributes

Attributes are individual pieces of Facility Data that describe facilities and their associated assets.

1.1.3 Facility Data

Information defined and collected in the Facility Data Workbook (FDW) and Facility Document Set (FDS).

1.1.4 Facility Document Set (FDS)

An electronically compiled and organized document containing the supporting documents and data used to populate the Facility Data Workbook during its respective phase of development.

a. For construction-based deliverables, the FDS is comprised of the project Operation and Maintenance Data Packages and Government-Approved Record drawings.

1.1.5 Facility Data Workbook (FDW)

A pre-formatted spreadsheet template used to compile Asset, Attribute, Facility, and Space Data that the Government wishes to manage via electronic means. The FDW also contains all requirements associated with proper collection, organization, and turnover of the Facility Data.

1.1.6 Facility Data Project Execution Plan (FDPxP)

A document that describes the clear and organized plan for the collection, organization, and turnover of the Facility Data deliverables required by this specification.

1.2 UNITS OF MEASURE

Provide Facility Data deliverables utilizing the units of measure identified in the contract documents.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Facility Data Project Execution Plan(FDPxP)

SD-10 Operation and Maintenance Data

Facility Data Workbook, Construction Progress; G, RO

Facility Document Set, Construction Progress; G, RO

SD-11 Closeout Submittals

Facility Data Workbook, Construction Final; G, RO

Facility Document Set, Construction Final; G, RO

1.4 QUALITY ASSURANCE

1.4.1 Facility Data Project Execution Plan (FDPxP)

Provide the Government with a plan for the collection, organization, and turnover of the Facility Data deliverables to the Government. At a minimum, include the following items in the FDPxP:

1.4.1.1 Front Matter

Provide a Cover Page, Table of Contents, and Executive Summary/Objectives.

1.4.1.2 Project Information

List the Project Owner, Project Name, Project Location and address, Contract Type, Project Description, Project/Contract Number, Project Milestones.

1.4.1.3 Submittal Schedule

Identify delivery schedule for all deliverables in compliance with the submission requirements identified in this specification.

1.4.1.4 Personnel

Identify key personnel involved in the development of the Facility Data deliverables including Contractor and Government personnel.

1.4.1.5 Facility Data Workbook(s)

Identify Facility and Space Data as applicable at time of FDPxP submission. Individually list every asset group from the FDW Requirements

that will require Facility Data collection. No attribute data is required at this time. Identify any asset groups from the FDW Requirements that are not required within the scope of this Contract. Document the version of FDW to be used through the duration of the project.

1.4.1.6 Facility Document Set(s)

Define structure and format of the submittal. Provide a comprehensive outline of the final FDS to be delivered. Organize the outline with headings, titles, and descriptions such that the Government may ascertain that working documents comply with the formatting requirements defined by this specification.

1.4.1.7 Protocols

Detailed procedures:

a. Facility Data documentation/collection process.

b. Facility Document Set production/development process.

c. Collaboration procedures including strategy, meetings, communication, and subcontractor/consultant involvement.

d. Quality Control, including site verification of FDW, as applicable.

e. File and folder naming structure.

f. Hardware and software being used for collection and organization of Facility Data. Identify type, format, and anticipated organization of digital storage media to be provided as part of required deliverables. Include means and methods for checking deliverables for malicious content.

1.4.2 Meetings

To assure that Facility Data requirements are being met through the duration of the project, organize the following meetings and discuss the subsequent topics:

1.4.2.1 Pre-Construction Meeting

At a minimum, discuss the following:

a. The requirement for Facility Data deliverables under this contract.

b. Primary roles and responsibilities associated with the development and delivery of the Facility Data deliverables, and.

c. Identify and agree upon a date and attendance list for the meetings described below:

1.4.2.2 FDPxP Coordination Meeting

a. Facilitate a meeting following submission and Government review of the FDPxP. Include the Facility Data Preparer(s), Designer of Record (DOR),, Quality Control (QC) Manager, Government's Facility Data Proponent, Contracting Officer's Representative, and Directorate of Public Works (DPW) Facilities Management Specialist (FMS). Also

include any Government personnel required for obtaining security clearances and waivers for proper Facility Data collection in this meeting.

b. The purpose of this meeting is to coordinate the efforts necessary by contract parties to ensure an accurate collection, preparation, quality control, and submittal of these deliverables.

c. The FDPxP serves as the primary agenda for this meeting. At a minimum, discuss the following:

(1) Processes and methods of gathering facility data during construction. Discuss and obtain special permissions and/or waivers as necessary (photo waivers, data encryption, etc.);

(2) Contractor Quality Control practices and procedures;

(3) Corrective actions necessary for Government approval of FDPxP;

(4) Necessity for additional or recurring Facility Data Coordination Meetings outside of those required by this specification, as requested by the Contractor. Intent of these meetings would be to maintain regular contact between responsible parties of the Contractor and Government with regard to development of the facility data deliverables. Conduct status meetings with a frequency agreed upon at this meeting.

1.4.2.3 Submittal Coordination Meeting

a. Facilitate a meeting following submission and Government review of each design or progress submittal of the Facility Data. Include the Facility Data Preparer(s), Designer of Record (DOR), Quality Control (QC) Manager, Commissioning Authority (CA), Government's Facility Data Proponent, Contracting Officer's Representative, and Directorate of Public Works (DPW) Facilities Management Specialist (FMS). Include Mechanical, Electrical, Plumbing, and Fire Protection subcontractors as applicable.

b. The purpose of this meeting is to demonstrate ongoing compliance with the requirements identified in this specification.

c. The applicable deliverables, along with Government remarks associated with review of these submittals serve as the primary guide and agenda for this meeting. At a minimum, discuss the following during this meeting:

(1) Review assets, applicable attributes, facility, and space data in FDW at time of submittal;

(2) Demonstrate Quality Control and site verification procedures, as applicable, by Contractor QC;

(3) Review contents and organization of FDS at time of submittal;

(4) Discuss Government review comments and/or unresolved items preventing completion and Government approval of the Facility Data Workbook and Facility Document Set.

1.4.3 Facility Turnover and Contract Closeout

Include the Facility Document Set, Construction Final as a deliverable in Facility Turnover and Contract Closeout procedures as defined in 01 78 00 CLOSEOUT SUBMITTALS.

1.4.4 Facility Data Workbook Quality Requirements

For each submittal, ensure that the information contained in the FDW(s) reflects the minimum content requirements defined in the PART 3 EXECUTION portion of this section. Ensure that information provided as part of the FDW(s) conforms to the standards described below:

a. Compile FDW(s) using approved spreadsheet templates. Do not alter the formatting or organizational layout of the templates in any way. For this Contract, templates are available for download from the USACE CAD/BIM Technology Center website, site information provided in the PART 2 PRODUCTS portion of this section.

b. Instructions for the proper maintenance and completion of these FDWs are contained in the FDW Requirements contained within the FDW template.

1.4.5 Facility Document Set Quality Requirements

Ensure that information provided as part of each FDS conforms to the electronic and data formatting standards identified in 01 33 00 SUBMITTAL REQUIREMENTS and 01 78 23 OPERATION AND MAINTENANCE DATA.

1.4.6 Facility Document Set Integrity Requirements

Ensure that information provided as part of each FDS conforms to the integrity standards identified below:

1.4.6.1 File Protection

Do not restrict data files, document files or photographic files from being printed, exported, modified or copied. Do not deliver files with any restrictions (expiration date, locks, etc.) for access, viewing, archiving, or editing.

1.4.6.2 Manufacturer-Specific Documents

Provide text-searchable, vector-based document files from the manufacturer's online or electronic documentation. Color documents are preferred. Provide documents specific to the product(s) installed under this Contract. When possible, do not submit document files containing multiple product catalogs from the same manufacturer, or product data from multiple manufacturers in the same file. Provide documents directly from the manufacturer whenever possible. Do not provide scanned copies of hardcopy documents.

1.5 DELIVERY, STORAGE, AND HANDLING

Deliver facility data submittals in an organized and legible manner. Provide submittals adhering to the requirements of of 01 33 00 SUBMITTAL REQUIREMENTS and 01 78 23 OPERATION AND MAINTENANCE DATA.

1.5.1 Number of Copies

Provide three identical copies of disks for approval; for each submittal and each facility required. Provide on approved electronic media (one copy per disk or set of disks) as defined below. Provide submittal files on electronic storage media in compliance with the quality requirements identified in this specification.

1.5.2 Malicious Content

Scan all files for malicious viruses using a commercially available scanning program that is routinely updated to identify and remove current virus threats.

1.5.3 Storage Media

Provide facility data on disk-based (DVD-R/RW) media. Any deviations from the required storage media must be approved by the Government. Select and apply technology used for electronic data transmission to ensure that the full Facility Data submittal for each facility is provided on one single disk, whenever possible. When separation of the submittal is required, first separate the FDS and the FDW onto separate media. Second, separate FDS into logical segments or components. Any further divisions must be documented in the FDPxP and approved by the Government.

Provide Facility Data on disk-based (DVD-R/RW) media. Any deviations from the required storage media must be approved by the Government. Select and apply technology used for electronic data transmission to ensure that the full Facility Data submittal for each facility is provided on one single disk, whenever possible. When separation of the submittal is required, first separate the FDS and the FDW onto separate media. Second, separate FDS into logical segments or components. Any further divisions must be documented in the FDPxP and approved by the Government.

a. Apply a label directly printed to storage media. Do not provide adhesive, paper-based labels. List the name of the facility, Project, Project location, Contract number, Designer of Record firm/Prime Contractor company's name, title of submission, and security classification (in accordance with the appropriate security classification labeling regulations) on the label. If multiple disks are provided, clearly document the contents of each disk on the label.

b. Include the name and contact information of the individual who produced the final data disk to ensure that any problems with the data or media can be easily resolved.

c. When browsed on any computer, the disk must display the following folders and their associated content:

    (1) Facility Data Workbook (containing 1 FDW per facility);
    (2) Facility Document Set (containing 1 FDS per facility);
    (3) FDPxP (containing 1 PxP per contract);
    (4) Readme (Containing 1 TXT, PDF, or HTML file with general use information, organizational instructions, and basic preparer contact information. Include all information included on the storage media label).

PART 2 PRODUCTS

2.1 FACILITY DATA WORKBOOK(S)

Provide one compiled FDW for each facility identified above. Complete all portions of each FDW including facility, space, asset, and attribute data in compliance with the FDW Requirements. The current FDW template (.xlsm format) must be downloaded from the USACE CAD/BIM Technology Center website at https://cadbimcenter.erdc.dren.mil.

2.1.1 Spaces

Provide data for all applicable spaces in the facility. Minimum space definitions are as follows:

a. Provide all rooms as defined in the design documents.
b. If not otherwise defined, provide a minimum of one "roof" space in the FDW.
c. If not otherwise defined, provide a minimum of one "site" space in the FDW.
d. Provide all spaces not otherwise described, but necessary to accurately indicate the location of all FDW assets required by this specification.

2.1.2 Assets

a. Provide data for all applicable asset types described in the "Required Assets" portion of the FDW template and any additional assets defined in the FDPxP. Populate each FDW with every instance of equipment within the scope of the contract fitting the asset descriptions identified therein. This includes all assets in contract scope including assets inside and outside of the building footprint, as well as on the site, underground, and anywhere within the project extents.

b. Sub-component assets that are an integral and functional part of another component (e.g. An electric motor that serves as part of an air-handling unit) need not be duplicated or listed separately as its own asset.

c. Definitions, descriptions, and formatting requirements for these assets can be found in the FDW Requirements contained within the FDW template.

d. If an asset type is not included in the scope of the Project, no Facility Data (assets or attributes) are to be included in the FDW (even as a placeholder) for that asset type.

2.1.3 Attributes

a. Populate each individual asset with all required attributes defined in the "Required Attributes" portion of the FDW template.

b. Definitions, descriptions, and formatting requirements for these attributes can be found in the FDW Requirements contained within the FDW template.

c. If an attribute is not applicable, populate that field with "N/A." Do not leave it blank.

2.2 FACILITY DOCUMENT SET

2.2.1 Organization

Organize the FDS in a hierarchical manner as follows. Use electronic bookmarks to create an easily navigable document. The first and primary hierarchical level must contain the following bookmarks:

b. "O&M Data" - See subordinate hierarchical requirements in the "O&M DATA HIERARCHY" paragraph.

c. "Record Drawings" - See subordinate hierarchical requirements in paragraph RECORD DRAWINGS HIERARCHY.

2.2.1.1 O&M Data Hierarchy

Under "O&M Data" provide all Government-Approved O&M Data Packages as defined in 01 78 23 OPERATION AND MAINTENANCE DATA and as required by technical specifications contained within this contract. Further organize this information under the following hierarchical levels:

a. The contract specification and title under which the Data Package and the associated equipment or system references. (e.g. 26 23 00.00 40 - SWITCHBOARDS AND SWITCHGEAR)

b. The Data Package Number as defined in 01 78 23 OPERATION AND MAINTENANCE DATA. (e.g. Data Package 2)

2.2.1.2 Record Drawings Hierarchy

Under "Record Drawings" provide an electronic copy of the Government-Approved record drawings, as specified in 01 78 00 CLOSEOUT SUBMITTALS, for the project in PDF format. Further group discipline sheets under the following hierarchical levels:

a. The full discipline heading represented by the contents of the sheet and as shown in the Record Drawing Sheet Index. Organize these headings in the order that the drawings set is organized. (General, Civil, Structural, Architectural, Interiors, Plumbing, Mechanical, Electrical, Telecommunications, etc.)

b. The Sheet ID and Sheet Name as found in the Record Drawing Sheet Index and in accordance with the AEC CAD Standard referenced in 01 78 00 CLOSEOUT SUBMITTALS. (e.g. G-001 - LEGEND; CS101 - SITE PLAN AREA 101; A-101 - OVERALL FIRST FLOOR PLAN; P-601 - FIRST FLOOR DWS WATER RISER DIAGRAM, etc.)

PART 3 EXECUTION

3.1 CONSTRUCTION PROGRESS SUBMITTALS

Submit the FDW and FDS construction progress submittals together. Meet the following completeness and formatting requirements listed below:

a. Provide Facility Data Workbook, Construction Progress submittal(s) when all assets are identified, but not later than 90 days prior to Beneficial Occupancy Date (BOD) as identified in the

Government-Approved construction schedule. Clearly identify any assets or asset groups missing in the "variations" section of the ENG Form 4025 Transmittal Form provided with the submittal. Populate assets with any front-loaded attribute data that is available at the time of asset input. See the FDW Requirements contained within the FDW template for a list of attributes to be completed for this submittal.

b. Submit individual FDW templates for each facility identified in the "FACILITIES" paragraph. While FDWs are not required to be complete for this submittal, any data provided must be accurate and formatted correctly according to the FDW Requirements.

c. Submit a sample or working Facility Document Set, Construction Progress submittal containing "draft" or "example" documents that are organized in the manner defined by this specification. Draft or example documents need not be technically accurate or complete in their content, but defined and separated in a manner such that all organizational and formatting requirements defined by this specification may be evaluated.

3.2 CONSTRUCTION FINAL SUBMITTALS

Submit the FDW and FDS construction final submittals as they are completed. Coordinate the Facility Data Workbook, Construction Final submittal with data verification procedures as defined in the accepted FDPxP. Provide the Facility Document Set, Construction Final submittal only after Government acceptance of its individual components as defined by 01 78 00 CLOSEOUT SUBMITTALS and 01 78 23 OPERATION AND MAINTENANCE DATA.

3.3 FACILITY DATA WORKBOOK VERIFICATION

Verify the FDW through the quality control personnel and procedures as defined in the FDPxP. Coordinate and conduct verification with commissioning procedures defined in Secttion 01 91 00.15 10 TOTAL BUILDING COMISSIONING . One-hundred percent accuracy of FDW information is required for Government acceptance of the Facility Data Workbook, Construction Final submittal.

--Attachments--
Project Facility Data Worksheets

-- End of Section --

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USAG West Point
New Equipment Inventory

Eqipment Category	Description	Valid From	Manufacturer	Manfacturing Country	Model Number	Manufacturer Part No.	Manufacturer Serial No.	Weight	Size/Dimension/Capacity	Location			Life Expectancy	Warranty Begin Date (MM/DD/YY)	Warranty End Date (MM/DD/YY)	Replacement	If Yes, describe.	Additional Notes			Preventative Maintenance - Optional (if Required)	
										Building No.	Floor No.	Room No.									PM Tasks	PM Task Frequency
Enter a number specifying the category of equipment: 1 - Conveying Systems 2 - Plumbing 3 - HVAC 4 - Fire Protection 5 - Electrical 6 - Kitchen 7 - Storage System 8 - Mechanical 9 - Vehicle Maintenance A - Grounds B - Overhead Doors C - Other	Enter a description for the piece of equipment. (40 CHAR MAX)	Enter the date on which the equipment became or will become the property of the government. Report in MM/DD/YYYY format.	Enter the Manufacturer.	Enter Manufacturing Country US, MX, etc.	Enter Model Number.	Enter Manufacturer Part Number.	Enter Manufacturer Serial Number.	Weight of the piece of equipment in lbs. (NUMBER ONLY - NO TEXT)	Include units of measurement. (18 CHAR MAX)	Describe the location of this piece of equipment with the most detail possible. In some instances, floor and/or room numbers will not be appropriate.			How long is the piece of equipment expected to operate effectively? Report in years.	If there is an active warranty on the item, enter the beginning and end dates in MM/DD/YYYY format.		Is this piece of equipment replacing an existing piece of equipment? Enter Y or N.	Describe the old piece of equipment with as much detail as possible - location, make, model, capacity, etc.	Insert any additional, necessary information. This may include the local numbering system or a characterizing feature.	If there are printed Specifications associated with the piece of equipment, enter the Gov POC (name, contact number) who accepted the documents.	If the piece of equipment is related to EMCS Building Automation Systems, enter the Gov POC (name, contact number) who has Administrative Privileges (with system login info and passwords).	If extensive, attach separate MS Word document.	Annual, Quarterly, Monthly, etc.
EXAMPLE 3	Boiler Pump 1	4/1/2015	Weinmann	US	534A	200-60-10-V2-D2-INP100S-PO1S	T-1616768	2	H32.83" L23" 25GPM	667	3	201	20	4/1/2015	4/1/2025	N			Jane Doe, x1234	John Doe, x5678	Clean lube oil sump	Annual

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SECTION 01 91 00.15 10

TOTAL BUILDING COMMISSIONING
05/19

PART 1 GENERAL

1.1 SUMMARY

Commission the building systems listed herein. The Government has retained a third party Commissioning Firm to lead the commissioning effort. Conform to the commissioning procedures outlined in this specification.

1.2 SYSTEMS TO BE COMMISSIONED

Commission the following systems:

Heating, Ventilating, Air Conditioning, and Refrigeration Systems (HVAC)
Building Automation System
Utility Monitoring and Control System
Lighting Systems
Power Distribution Systems
Fire Alarm/Detection Systems
Plumbing Systems
Fire Suppression Systems
Electronic Security Access and Surveillance System
Telecommunications System
Energy and Water Utility Metering Systems and Sub-Meters
Building Envelope: include moisture, thermal integrity, and air tightness for the entire buidling envelope including systems such as walls, fenestration, roofing, below grade perimeter walls, and crawl spaces.

1.3 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ASHRAE 180	(2012) Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems

1.4 COMMUNICATION WITH THE GOVERNMENT

The Commissioning Agent (CxA) must submit all plans, schedules, reports, and documentation directly to the Contracting Officer Representative. The Lead Commissioning Specialist must have direct communication with the Contracting Officer's Representative regarding all elements of the commissioning process. The CxA has no direct contractual relationship with nor authority over the Contractor.

1.5 SEQUENCING AND SCHEDULING

1.5.1 Sequencing

Complete the following prior to starting Functional Performance Tests of mechanical systems:

a. All equipment and systems have been completed, cleaned, flushed, disinfected, calibrated, tested, and operate in accordance with contract documents and construction plans and specifications.

b. Performance Verification Tests of the controls systems have been completed and the Performance Verification Test Report has been submitted and approved in accordance with Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC.

c. Testing, Adjusting, and Balancing has been completed and the Testing, Adjusting, and Balancing Report, has been submitted and approved in accordance with Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC.

d. The building envelope is enclosed according to contract documents with final construction completed.

e. The Pre-Functional Checklists have been submitted and approved.

f. The Certificate of Readiness for mechanical systems has been submitted and approved.

Complete the following prior to starting Functional Performance Tests of the electrical systems:

a. All electrical, power generation, and lighting equipment and systems have been completed, calibrated, tested, and operate in accordance with contract documents and construction plans and specifications.

b. The building envelope is enclosed according to contract documents with final construction completed.

c. Ceiling tiles, floor coverings, and window coverings are in place.

d. The Certificate of Readiness for electrical systems has been submitted and approved.

e. Occupancy schedules set and integration between lighting systems and HVAC systems complete.

1.5.2 Project Schedule

Include the following tasks in the project schedule required by Section 01 32 01.00 10 PROJECT SCHEDULE. Ensure sufficient time is scheduled to accommodate the requirements of this specification section. The order of items listed below is not intended to imply a specified sequence:

a. Submission and approval of the Testing, Adjusting, and Balancing (TAB) Firm and TAB Specialist specified in Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

b. Submission of the Design Review Report specified in Section 23 05 93

TESTING, ADJUSTING, AND BALANCING FOR HVAC.

c. Installation of permanent utilities (gas, water, electric)

d. Building Envelope Construction

e. Submission and approval of the Building Envelope Inspection Checklists

f. Air Barrier Pressure Tests

g. Drainage and Vent, Building Sewers, Water Supply Systems and Backflow Prevention Assembly Tests specified in Section 22 00 00 PLUMBING, GENERAL PURPOSE

h. Factory Acceptance Testing for each of the systems to be commissioned as required by technical specifications

i. Manufacturer's Equipment Start-Up for each of the systems to be commissioned.

j. Potable Water System Flushing specified in Section 22 00 00 PLUMBING, GENERAL PURPOSE

k. Operational Tests of the plumbing system specified in Specification Section 22 00 00 PLUMBING, GENERAL PURPOSE.

l. Potable Water System Disinfection specified in Section 22 00 00 PLUMBING, GENERAL PURPOSE

m. Submission and approval of the TAB Schematic Drawings, Report Forms, and Procedures specified in Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC.

n. Submission and approval of Duct Air Leakage Test Procedures specified in Specification Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

o. Duct Air Leakage Test Execution specified in Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

p. Submission and approval of the Final Duct Air Leakage Test Report specified in Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

q. Testing, Adjusting, and Balancing (TAB) Field Work required by Specification Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

r. Submission and approval of the TAB Report specified in Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

s. TAB Field Acceptance Testing required by Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC

t. Submission and approval of the Start-Up Testing Report specified in Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC.

u. Submission and approval of the Performance Verification Test Procedures specified in Section 23 09 00 INSTRUMENTATION AND CONTROL

FOR HVAC.

v. Performance Verification Tests required by Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC

w. Performance Verification Test Report specified in Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC

x. Performance Verification Tests required by Specification Section 25 10 10 UTILITY MONITORING AND CONTROL SYSTEM (UMCS) FRONT END INTEGRATION.

y. Performance Verification Test Reports required by Specification Section 25 10 10 UTILITY MONITORING AND CONTROL SYSTEM (UMCS) FRONT END INTEGRATION.

z. Functional Performance Testing for each system to be commissioned

aa. Integrated Systems Tests

bb. Post-Test Deficiency Correction for each system to be commissioned

cc. Re-Testing

dd. Training for each of the systems to be commissioned

ee. Systems Manual, Maintenance Plan, and Service Life Plan submission and approval

ff. Seasonal Testing

gg. Post-Construction Endurance Testing

hh. Post-Construction Site Visit

1.6 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-06 Test Reports

Building Envelope Inspection Checklists; G, DO

Completed Pre-Functional Checklists; G, DO

Issues Log

Commissioning Report; G

Post-Construction Trend Log Report; G, DO

Performance Verification Test Report; G, DO

SD-07 Certificates

Certificate of Readiness; G, DO

SD-10 Operation and Maintenance Data

Training Plan; G, RO

Training Attendance Rosters; G, RO

Maintenance and Service Life Plans; G, DO

1.7 COMMISSIONING PERSONNEL

1.7.1 Lead Commissioning Liaison

The Contractor must provide a Lead Commissioning Liaison that is familiar with all Commissioning standards referenced in this specification. The Lead Commissioning Liaison is responsible to oversee the commissioning activities required to be completed by the contractor including adding commissioning activities to the schedule, completion of pre-functional checklists, attendance at all functional performance testing, submission of operations and maintenance manuals, and training oversight. The Lead Commissioning Liaison will be the Contractor'smain point of contact for the Commissioning Agent (CxA) for all commissioning activities for the duration of the project.

1.8 SUSTAINABILITY THIRD PARTY CERTIFICATION (TPC)

The Commissioning Specialists must execute and document the commissioning activities required of the Commissioning Authority for the purposes of complying with the Third Party Certification (TPC) requirements for the project in accordance with Section 01 33 29 SUSTAINABILITY REPORTING. Provide all commissioning documentation required to meet the TPC requirements.

The Commissioning Specialists must provide any additional documentation or perform additional acitivities required by Leadership in Energy and Environmental Design version 4 (LEEDv4) Fundamental Commissioning and Verification including such documents as the Current Facilities Requirements and Operations and Maintenance Plan. In addition, the Commissioning Specialists must provide any additional documentation and perform additional activities as required by LEEDv4 Enhanced Commissioning Option 1: Path 1 Enhanced Commissioning and Option 2 Envelope Commissioning including such activities as developing and providing an ongoing commissioning plan, developing and implementing a monitoring-based commissioning plan, and compliance with NIBS Guideline 3 for envelope commissioning.

1.9 ISSUES LOG UPDATES

The CxA will develop and maintain an Issues Log for tracking and resolution of all deficiencies discovered through submittal reviews, inspection, and testing. At any point during construction, any commissioning team member finding deficiencies may communicate those deficiencies in writing to the CxA for inclusion into the Issues Log. The Issues Log will be reviewed regularly with the Contracting Officer Representative and the Contractor.

The Commissioning Issues Log will be maintained in the CxA's commissioning software. The Contractor shall access the CxA's commissioning software to input comments and updates to the Commissioning Issues Log.

1.10 CERTIFICATE OF READINESS

Prior to scheduling Functional Performance Tests for each system, issue a Certificate of Readiness for the system certifying that the system is ready for Functional Performance Testing. The Certificate of Readiness must include, for each system to be commissioned, all equipment and system start-up reports; Performance Verification Test Reports; completed Building Envelope Inspection Checklists; completed Pre-Functional Checklists; Testing, Adjusting, and Balancing (TAB) Report; HVAC Controls Start-Up Reports; and the Air Leakage Test Reports and Diagnostic Test Reports to the extent applicable to the system. The Contractor; the Lead Commissioning Specialist; the Contractor's Quality Control Representative; the Mechanical, Electrical, Controls, and TAB subcontractor representatives must sign and date the Certificate of Readiness. Submit the Certificate of Readiness for each system no later than 14 calendar days prior to Functional Performance Tests of that system. Submit an electronic copy. Do not schedule Functional Performance Tests for a system until the Certificate of Readiness for that system receives approval by the Government.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

3.1 CONSTRUCTION PHASE

3.1.1 Construction Commissioning Coordination Meeting

The Commissioning Agent will lead a Construction Commissioning Kickoff Meeting to discuss the commissioning process including contract requirements, lines of communication, roles and responsibilities, schedules, documentation requirements, inspection and test procedures, and logistics as specified in this specification section. The Contractor's Superintendent or Project Manager, the Contractor's Quality Control Representative, the Lead Commissioning Liaison, Subcontractor representatives for each system to be commissioned, and the Government must attend this meeting. Invite the User and a Directorate of Public Works Representative, to attend this meeting.

3.1.2 Design Phase Commissioning Plan

A commissioning plan developed during design phase is provided as Appendix C for information only. The design phase commissioning plan does not form a part of this contract and is provided for commissioning review purposes only.

3.1.3 Construction Phase Commissioning Plan

3.1.3.1 Construction Phase Commissioning Plan

The CxA will prepare the Construction Phase Commissioning Plan and distribute to the team for review and comment. The Construction Phase Commissioning Plan will include the commissioning and testing standards

and outline the overall commissioning process, the commissioning schedule, the commissioning team members and responsibilities, lines of communication, and documentation requirements for the construction phase of the project.

3.1.3.1.1 Pre-Functional Checklists

The Pre-Functional Checklists will include items for physical inspection or testing that demonstrate that installation and start-up of equipment and systems is complete. Refer to paragraph Pre-Functional Checks for more information. Pre-Functional Checklists will be prepared by the CxA and completed by the Contractor.

3.1.3.1.2 Functional Performance Test Checklists

Functional Performance Test Checklists will include procedures that explain, step-by-step, the actions and expected results that will demonstrate that the system performs in accordance with the contract. Refer to paragraph Functional Performance and Integrated Systems Tests for more information. Include the following sections and details appropriate to the systems being tested in the Functional Performance Test Checklists:

a. Notable system features including information about controls to facilitate understanding of system operation

b. Conclusions and recommendations. Conclusions must clearly indicate if system does or does not perform in accordance with contract requirements. Recommendation must clearly indicate that the system should or should not be accepted by the Government.

c. Test conditions including date, beginning and ending time, and beginning and ending outdoor air conditions

d. Attendees

e. Identification of the equipment involved in the test

f. Control system feature identification

g. Point-to-point observations including demonstrating system flow meters and sensors have been calibrated and are correctly displayed on the Operator work station

h. Actuator operation observations demonstrating actuator responses to commands from the control system

i. As-found condition of the system operation

j. List of test items with step numbers along with the corresponding feature or control operation, intended test procedure, expected system response, and pass/fail indication.

k. Space for comments for each test item.

3.1.3.1.3 Integrated Systems Test Checklists

Integrated Systems Test Checklists will include test procedures that explain, step-by-step, the actions and expected results that will demonstrate that the interactive operations between systems performs in

accordance with the contract. Refer to paragraph Functional Performance and Integrated Systems Tests for more information. Include the following sections in the Integrated Systems Test Checklists:

a. Notable features of the interconnected systems organized by discipline including information to facilitate understanding of system operation

b. Conclusions and recommendations. Conclusions must clearly indicate if the systems do or do not perform in accordance with contract requirements. Recommendation must clearly indicate that the systems should or should not be accepted by the Government

c. Test conditions including date and beginning and ending time

d. Attendees

e. Identification of the equipment and systems involved in the test

f. List of test items with step numbers along with the corresponding feature or control operation, intended test procedure, expected system response, and pass/fail indication.

g. Space for comments for each test item.

3.1.4 Construction Submittals

Provide all submittals associated with the systems to be commissioned, including shop drawings; equipment submittals; test plans, procedures, and reports; and resubmittal's to the CxA. The CxA will review the submittals to the extent necessary verify that the equipment and system installation will comply with the contract requirements and the requirements of the Basis of Design and the Government's Project Requirements Document.

3.1.5 Inspection and Testing

Demonstrate that all system components have been installed, that each control device and item of equipment operates, and that the systems operate and perform, including interactive operation between systems, in accordance with contract documents and the Government's Project Requirements. Requirements in related specification sections are independent from the requirements of this section and do not satisfy any of the requirements specified in this specification section. Provide all materials, services, and labor required to perform the Pre-Functional Checks, Building Envelope Inspection, Integrated Systems Tests, and Functional Performance Tests.

3.1.5.1 Commissioning Team

Provide a commissioning representative for each sub-contractor associated with the systems to be commissioned. Each commissioning representative is responsible for coordination of their respective sub-contractor's execution of the commissioning activities and participation in the inspection and testing required by this specification section. The designers listed below are the designers of record for their respective systems. Substitutes must be approved by the Contracting Officer's Representative.

3.1.5.1.1 Building Envelope Inspections Team

The following team members must participate in building envelope inspections:

Designation	Function
CxL	Contractor's Lead Commissioning Liaison
QAR	Contracting Officer's Quality Assurance Representative
CQC	Contractor's Quality Control Personnel
CxA	Commissioning Agent

3.1.5.1.2 Pre-Functional Checks Team

The following team members must participate in Pre-Functional checks of mechanical systems:

Designation	Function
CxL	Contractor's Lead Commissioning Liaison
QAR	Contracting Officer's Quality Assurance Representative
CQC	Contractor's Quality Control Personnel
MC	Contractor's Mechanical Commissioning Representative
EC	Contractor's Electrical Commissioning Representative
CC	Contractor's Controls Commissioning Representative
TABC	Contractor's TAB Commissioning Representative
PC	Contractor's Plumbing Commissioning Representative
FPF	Contractor's Fire Protection Commissioning Representative
FAC	Contractor's Fire Alarm Commissioning Representative

3.1.5.1.3 Systems Test Team

The following team members must participate in Functional Performance, Seasonal, and Integrated Systems Testing:

Designation	Function
CxA	Commissioning Agent
CxL	Contractor's Lead Commissioning Liaison
QAR	Contracting Officer's Quality Assurance Representative
CQC	Contractor's Quality Control Personnel
MC	Contractor's Mechanical Commissioning Representative
EC	Contractor's Electrical Commissioning Representative
CC	Contractor's Controls Commissioning Representative
TABC	Contractor's TAB Commissioning Representative
PC	Contractor's Plumbing Commissioning Representative
FPF	Contractor's Fire Protection Commissioning Representative
FAC	Contractor's Fire Alarm Commissioning Representative

3.1.5.1.4 Other Pre-Functional and Functional Performance Participants

The following may participate as team members during Pre-Functional Checks and Functional Performance Testing:

Designation	Function
DPW	Directorate of Public Works Representative
User	Using Agent's Representative
DOR	Designer of Record

3.1.5.2 Building Envelope Inspection

Document building envelope inspection by the commissioning team using the approved Template Building Envelope Inspection Checklists. Indicate commissioning team member inspection and acceptance of each Building Envelope Inspection Checklist item by initials at the time they are inspected and found to be in conformance with contract requirements. Inspect checklist items before they become hidden as construction progresses.

a. Submit the completed and initialed Building Envelope Inspection Checklists no later than 7 calendar days after completion of inspection of all checklists items. Submit an electronic copy.

b. The Commissioning Agent will make site visits to the site to observe construction of the building envelope in-progress. On each visit, the Building Envelope Commissioning Specialist must review the Contractor's in-progress checklists to ensure that the commissioning

team is inspecting the building envelope as required.

c. The Commissioning Agent will witness the building envelope pressure tests and diagnostic tests. The Commissioning Agent must review the resulting reports and provide recommendations for correction of any deficiencies or further testing.

3.1.5.3 Pre-Functional Checks

Pre-Functional Checklists must be completed by the Contractor. Complete one Pre-Functional Checklist for each individual item of equipment or system for each system required to be commissioned including, but not limited to, ductwork, piping, equipment, fixtures (lighting and plumbing), and controls. Indicate commissioning team member inspection and acceptance of each Pre-Functional Checklist item by initials. Acceptance of each Pre-Functional Checklist item by each team member indicates that item conforms to the construction contract requirements in their area of responsibility. Submit the completed and initialed Pre-Functional Checklists no later than 7 calendar days after completion of inspection of all checklists items for each system. Submit an electronic copy. Include manufacturer start-up checklists associated with equipment with the submission of the Pre-Functional Checklists.

3.1.5.4 Testing, Adjusting, and Balancing (TAB) Report and Field Acceptance Testing

The Commissioning Agent must review the pre-final TAB Report required by Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC. Identify any deficiencies to the Contracting Officer's Representative and the Contractor's Quality Control Personnel. Resolve all deficiencies prior to TAB Field Acceptance Testing.

The Commissioning Agent must witness the TAB Field Acceptance Testing specified by Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC. Include a certification by the Mechanical Subcontractor and Lead Commissioning Liaison that no outstanding deficiencies exist in the systems relative to Testing, Adjusting, and Balancing with the final TAB Report submittal.

3.1.5.5 Controls Test Reports

The Commissioning Agent must review the Start-Up Testing Report and the PVT Procedures and Reports required by Specification Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC and Specification Section 25 10 10 UTILITY MONITORING AND CONTROL SYSTEM (UMCS) Front End and Integration. Resolve all deficiencies prior to beginning Performance Verification Testing. The Commissioning Agent must review the Start-Up Testing Reports and acceptance testing reports specified in Specification Section 26 08 00 APPARATUS INSPECTION AND TESTING and System Operation Tests specified in Specification Section 26 09 43 LIGHTING CONTROLS.

3.1.5.6 Security Systems Test Reports

The Commissioning Agent must review the test plans and operational test reports required by Section 28 08 10 - ELECTRONIC SECURITY SYSTEM ACCEPTANCE TESTING. Include certification by the installing Subcontractors that the submittals contain no deficiencies or that the submittals do not indicate any deficiencies in the access control or intrusion detection systems.

3.1.5.7 Telecommunications Systems Test Reports

The Commissioning Agent must review the test plans and operational test reports required by Section 27 10 00 - BUILDING TELECOMMUNICATIONS CABLING SYSTEM. Include certification by the installing Subcontractors that the submittals contain no deficiencies or that the submittals do not indicate any deficiencies in the telecommunications systems.

3.1.5.8 Tests

3.1.5.8.1 Functional Performance and Integrated Systems Tests

Schedule Functional Performance Tests for each system only after the Certificate of Readiness has been approved by the Government for the system. Correct all deficiencies identified through any prior review, inspection, or test activity before the start of Functional Performance Tests. Perform Integrated Systems Tests only after the Functional Performance Tests for each associated system are completed with all deficiencies resolved and after the related Functional Performance Test Checklists have been signed by each commissioning team member.

a. Functional Performance Tests and Integrated Systems Tests must be performed with the Contracting Officer's Quality Assurance Representative present.

b. Abort Functional Performance Tests or Integrated Systems Tests when any system deficiency prevents the successful completion of the test.

c. Commissioning Agent must lead and document all Functional Performance Tests and Integrated Systems Tests for the systems to be commissioned with the Contractor and appropriate sub-contractors performing the Functional Performance Tests and Integrated Systems Tests. The representatives listed in the paragraph Commissioning Team must attend the tests. Abort Functional Performance Tests or Integrated Systems Tests when any required commissioning team member is not present for the test.

d. Functional Performance Tests must be scheduled minimum 10 days in advance.

3.1.5.8.1.1 Checklist

Use the Functional Performance Test and Integrated Systems Test Checklists prepared by the CxA to guide the Functional Performance Tests and Integrated Systems Tests. Functional Performance Tests must be performed for each item of equipment and each system required to be commissioned and verify all sensor calibrations, control responses, safeties, interlocks, operating modes, sequences of operation, capacities, lighting levels, and all other performance requirements comply with construction contract regardless of the specific items listed within the Functional Performance Test and Integrated Systems Test Checklists provided. Testing must progress from equipment or components to subsystems to systems to interlocks and connections between systems. Integrated Systems Tests must be performed for the interactive operation between systems such as HVAC systems, fire protection systems, back-up electrical supply, energy generation systems, and other systems, and verify correct interactive operation, acceptable speed of response, and other contract requirements for both normal and failure modes. Examples of Integrated Systems Tests

include the correct operation of HVAC systems during emergency system activation, correct operation of uninterruptible power supplies or energy generators and connected systems, or lighting system operation during power outage or emergency system activation. The order of components and systems to be tested will be determined by the Technical Commissioning Specialists.

3.1.5.8.1.2 Acceptance

Indicate acceptance of each item of equipment and systems tested by signature of each commissioning team member for each Functional Performance Test or Integrated Systems Test Checklist. The Contractor's Commissioning Liaison must indicate acceptance after the equipment and systems are free of deficiencies. The CxA will not recommend the Government accept a system until that system is proven free of deficiencies.

3.1.5.8.2 HVAC Test Methods

Perform Functional Performance Tests in accordance with the following:

3.1.5.8.2.1 Prior to Testing

Prior to testing operating modes, sequences of operation, interlocks, and safeties, complete control point-to-point observations, test sensor calibrations, and test actuator commands.

3.1.5.8.2.2 Simulating Conditions

Over-writing control input values through the controls system is not acceptable, unless approved by the Contracting Officer's Representative. Identify proposed exceptions in a protocol submitted to the Contracting Officer's Representative for approval. Before simulating conditions, overwriting values (if approved), or changing set-points, calibrate all sensors, transducers and devices. Below are several examples of exceptions that would be considered acceptable:

a. When varying static pressures inside ductwork can not be simulated within the duct, and where a sensor signals the controls system to initiate sequences at various duct static pressures, it is acceptable to simulate the various pressures with a Pneumatic Squeeze-Bulb Type Signaling Device with gauge temporarily attached to the sensing tube leading to the transmitter. It is not acceptable to reset the various set-points, nor to simulate an electric analog signal (unless approved as noted above).

b. Dirty filter pressure drops can be simulated using sheets of cardboard at filter face.

c. Freeze-stat safeties can be simulated by packing portion of sensor with ice.

d. High outside air temperatures can be simulated with a hair blower.

e. High entering cooling coil temperatures can be used to simulate entering cooling coil conditions.

f. Do not use signal generators to simulate sensor signals unless approved by the Contracting Officer's Representative, as noted above,

for special cases.

g. Control set points can be altered. For example, to see the air conditioning compressor lockout work at an outside air temperature below 55 degrees F, when the outside air temperature is above 55 degrees F, temporarily change the lockout set point to be 0 degrees F above the current outside air temperature. Caution: Set points are not to be raised or lowered to a point such that damage to the components, systems, or the building structure and/or contents will occur.

h. Test duct mounted smoke detectors in accordance with the manufacturer's recommendations. Perform the tests with air system at minimum airflow condition in ductwork.

i. Test current sensing relays used for fan and pump status signals to control system to indicate unit failure and run status by resetting the set point on the relay to simulate a lost belt or unit failure while the unit is running. Confirm that the failure alarm was generated and received at the control system. After the test is conducted, return the set point to its original set-point or a set-point as indicated by the Contracting Officer's Representative.

3.1.5.8.2.3 Setup

Perform each test under conditions that simulate actual conditions as close as is practically possible. Provide all necessary materials and system modifications to produce the necessary flows, pressures, temperatures, and other conditions necessary to execute the test according to the specified conditions. At completion of the test, return the affected building equipment and systems to their pre-test condition.

3.1.5.8.3 Sample Strategy

Perform Functional Performance Tests using the following sample strategy. Prepare and complete a Functional Performance Test Checklist for each item of equipment or system to be tested. For sample sizes less than 100 percent for all similar equipment, the Government will select the specific equipment or system to be tested during testing. Equipment Identifiers are as indicated on the design drawings:

Perform Integrated Systems Tests for all systems and equipment having interactive operation.

3.1.5.8.4 Seasonal Tests

3.1.5.8.4.1 Initial Functional Performance Tests

Perform Initial Functional Performance Tests as soon as all contract work is completed, regardless of the season. Develop and implement means of artificial loading to demonstrate, to a reasonable level of confidence, the ability of the HVAC systems to handle peak seasonal loads.

3.1.5.8.4.2 Full-Load Conditions

In addition to the Initial Functional Performance Tests, perform Functional Performance Tests of HVAC systems under full-load conditions during peak heating and cooling seasons as close as possible to outdoor air condition design extremes.

Schedule Seasonal Functional Performance Tests in coordination with the Government.

3.1.5.8.4.3 System Acceptance

Systems may be partially accepted by the Government prior to seasonal testing if they comply with all construction contract that can be tested during initial Functional Performance Tests. All Functional Performance Test procedures must be completed prior to full systems acceptance.

3.1.5.8.5 Aborted Tests and Re-Testing

Abort Functional Performance Tests, Integrated Systems Tests, or Seasonal Tests if any deficiency prevents successful completion of the test or if any required commissioning team member is not present for the test. Reimburse the Government for all costs associated with effort lost due to re-testing due to test failures and aborted tests. These costs must include salary, travel costs, and per diem for Government commissioning team members including the CxA. Re-test only after all deficiencies identified during the original tests have been corrected.

3.1.5.8.5.1 100 Percent Sample

Systems or equipment for which 100 percent sample size are tested fail if one or more of the test procedures results in discovery of a deficiency and the deficiency cannot be resolved within 5 minutes during the test.

Re-test to the extent necessary to confirm that the deficiencies have been corrected without negatively impacting the performance of the rest of the system.

3.1.5.8.5.2 Less than 100 Percent Sample

For systems tests with a sample size less than 100 percent, if one or more of the test procedures for an item of equipment or a system results in discovery of a deficiency, regardless of whether the deficiency is corrected during the sample tests, the item of equipment or system fails the test.

a. If the system failure rate is 5 percent or less, meaning that 5 percent or less of the equipment or systems tested had at least one deficiency, re-test only on the items which experienced the initial failures.

b. If the system failure rate is higher than 5 percent, meaning that more than 5 percent of equipment or systems tested had at least one deficiency, re-test the items which experienced the initial failures to the extent necessary to confirm that the deficiencies have been corrected . In addition, test another random sample of the same size as the initial sample for the first time. If the second random sample set has any failures, re-test those failed items and all remaining equipment and systems to complete 100 percent testing of that system type.

3.1.6 Training Plan

Develop a training plan which identifies all training required by specification sections associated with commissioned systems. Include a matrix listing each training requirement, content of the training, the

trainer name, trainer contact information, and schedule and location of training. Submit an electronic copy of the Training Plan to the CxA and the Government no later than 30 calendar days prior to the associated training. Training plan must be approved no less than 7 days prior to scheduled training session(s).

Document training attendance using training attendance rosters and provide completed attendance rosters to the CxA and the Government no later than 7 calendar days following the completion of training for each system to be commissioned. Submit an electronic copy.

3.1.7 Systems Manual

Prepare and submit a Systems Manual including a signed certification or letter from the Government's Commissioning Agent stating that the Systems Manual is complete, clear, and accurate. The Systems Manual, for all commissioned systems must conform to Appendix A SYSTEMS MANUAL ORGANIZATION AND CONTENT to ER 25-345-1, available at the USACE Publications website at the following location:

https://www.publications.usace.army.mil/USACE-Publications/Engineer-Regulations
Update and resubmit the Systems Manual based on any corrective action taken during the warranty period.

Submit the Systems Manual no later than 30 calendar days following completion of Functional Performance Testing and Integrated Systems Testing. Submit an electronic copy

3.1.8 Maintenance and Service Life Plans

3.1.8.1 Maintenance Plan

Prepare and submit a Maintenance Plan for the project mechanical, electrical, plumbing, and fire protection systems. Prepare the HVAC and refrigeration sections of the Maintenance Plan in accordance with ASHRAE 180. Develop required inspection and maintenance tasks similar to Section 5 of ASHRAE 180 for the other commissioned systems and fire protection systems.

Submit the Maintenance Plan no later than 30 calendar days following the completion of Functional Performance Tests and Integrated Systems Tests. Submit an electronic copy.

3.1.8.2 Service Life Plan

Prepare and submit a Service Life Plan for the building envelope, structural systems, and site hardscape that includes the following for each assembly or component:

a. A description of each including the materials or products.

b. The estimated service life, in years.

c. The estimated maintenance frequency and description of maintenance tasks.

d. The point of maintenance access for the components with estimated service life less than service life of the building.

Submit the Service Life Plan no later than 30 calendar days following the completion of Functional Performance Tests and Integrated Systems Tests. Submit an electronic copy.

3.1.8.3 Design Life

Building Design Life (years)	Building Element Design Life (years)					
	Structural Elements and/or inaccessable elements	Expensive and/or difficult replacement	Major Replaceable	Mechanical, Electrical, plumbing and energy generation	Roofing	Site Hardscape
60	60	60	40	20	20	30

3.2 COMMISSIONING REPORT

Contractor to provide CxA all requested reports and documents necessary to include in the final commissioning report within 7 days of request. CxA will provide a list of all required documentation.

3.3 POST-CONSTRUCTION SUPPORT

3.3.1 Post-Construction Endurance Test

Perform an Endurance Test in accordance with the paragraph Endurance Test in Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC once during the peak heating season and once during the peak cooling season during outdoor air condition extremes with the exception that network bandwidth usage measurement and recording is not required.

Submit one electronic copy of all trend data to the Commissioning Firm. The CxA must review the trend logs from the Endurance Tests to ensure that the systems have stable operation and operate as required by the construction contract, and the Owner's Project Requirements Document. The CxA will provide a Post-Construction Trend Log Report that identifies any deficiencies noted in operation, recommendations for correction, and includes a graphical representation of the trends. Provide one Trend Log Report for the peak cooling season and one Trend Log Report for the peak heating season.

3.3.2 Post-Construction Site Visit

The CxA must be informed of the 9 month warranty inspection at least 30 days prior to meeting and will attend to inspect building system equipment and review building operation with the building operating/maintenance staff. The CxA must identify any deficiency of the building systems to operate in accordance with the contract requirements and the Government's Project Requirements. The CxA will advise the Contracting Officer's Representative of any identified deficiencies and the proposed corrective action.

APPENDIX C - DESIGN PHASE COMMISSIONING PLAN

-- End of Section --

JACOBS / EWING COLE A Joint Venture

West Point
Lincoln Hall

USMA, West Point, NY

DESIGN PHASE COMMISSIONING PLAN

February 22, 2023

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END OF TABLE OF CONTENTS

1 REVIEW AND APPROVAL

The Commissioning Plan was developed specifically for this project using approved engineering specifications and drawings as the basis for verification that the owner's project requirements are met.

Function	Organization	Name	Signature	Date
Written By				
Cx Authority	Jacobs/Ewing Cole	Mike Teague		3/25/2022
Reviewed By				
Cx Authority	Jacobs/Ewing Cole	Wael AbuElyamin		3/21/2022
Cx Authority	Jacobs/Ewing Cole	Wael AbuElyamin		7/8/2022

2 REVISION HISTORY

The Commissioning Plan is considered a "living" document that may be updated throughout the project duration by the Cx Authority as applicable. When updates are completed, copies of the revised Plan will be submitted to the Commissioning Team Members.

Summarized here are the Plan updates along with revision dates:

Rev #	Date	Description
00	03/20/2020	Draft – issued for review
01	02/05/2021	Draft – issued for 60% CD
02	3/29/2022	Draft – issued for 90% CD
03	6/30/2022	Draft - Issued for 100% CD
04	7/8/2022	Issued for 100% CD
05	2/22/2023	Issued with IFC

3 OVERVIEW

3.1 Purpose of the Commissioning Plan

The United States Military Academy at West Point (USMA) has committed to implement the commissioning process for the renovation of Lincoln Hall to verify that all systems reflect the United States Army Corps of Engineers' (USACE) design philosophy and criteria, that systems are complete and functioning properly, that systems integrate with existing control systems where appropriate, and that facility operations staff has adequate system documentation and training.

The purpose of the commissioning process is to provide the owner / operators of the facility with a high level of assurance that the commissioned systems have been installed in the prescribed manner and operate within the performance guidelines set forth in the basis of design. The commissioning authority will provide the owner with an unbiased, objective view of the system's installation, operation and performance. this process is not to take away or reduce the responsibility of the design professionals or installing contractors to provide a finished product. Commissioning is intended to enhance the quality of a system start-up and aid in the orderly transfer of systems to beneficial use by the owner. The Cx Authority is a member of the commissioning team who is responsible for coordinating all commissioning activities with the owner, design professionals, construction manager, contractors, subcontractors, manufacturers and equipment suppliers.

This commissioning plan is to be used as a guide by all project team members throughout the duration of this project. This plan is written to provide detailed information about the many activities that make up the commissioning process.

3.2 Codes and Standards

This project will adhere to the following for the commissioning process:

LEED v4: United States Green Building Council Leadership in Environmental and Energy Design, version 4

ASHRAE Guideline 0, 2013: The Commissioning Process

ASHRAE Standard 189.1, 2014: Standard for the Design of High-Performance Green Buildings

ER-1110-345-723: Total Building Commissioning Procedures

3.3 Commissioning Scope

The commissioning process includes all the parties directly involved in the design and construction process, as well as representatives of the USMA, USACE and the commissioning authority. Commissioning takes place continuously during the project and touches all parties involved in design, construction, start-up, testing, operation and maintenance.

This project consists of the renovation of Lincoln Hall as part of the Academic Building Upgrade Program (ABUP) at the West Point USMA. The building is situated with the building's length oriented north south between Cullum Road and the Hudson River and stands as the focal point of the three-building cluster along the eastern edge of the Plain. The position makes it a highly visible building, both from the Plain and from across the river.

Constructed in 1909, Lincoln Hall originally served as the campus Bachelor Officer's Quarters, but has since been repurposed for academic departmental use. The building is one of many legacy buildings listed on the National Register of Historic Places (NRHP) as part of the USMA National Historic Landmark District (NHLD) in 1966 and is a prominent facility in the USMA campus' Central Cadet Area. last renovated in 1987, the performance of critical building systems within Lincoln Hall

has declined due to normal use and does not meet present day mission requirements to adequately serve its tenants. Incremental maintenance, repair, and upgrades to Lincoln Hall will not provide the solutions necessary to improve the facility's performance and functionality, therefore a comprehensive large-scale project for Lincoln Hall is necessary to ensure the continuation of providing exceptional learning environments at USMA West Point.

The Lincoln Hall project addresses the urgent need to fully renovate, recapitalize, repair, restore, and redesign the existing building to include administrative functional areas for Admissions, Regional Command Staff, Multi-Media support, the Staff Judge Advocate, the Cadet Hostess, and retail space for a Cadet Store.

4 COMMISSIONED SYSTEMS

SYSTEM	QTY	SAMPLE

4.1 Mechanical Systems

Air Handling Units (DOAS)	2	100%
Make Up Air Handling Unit	1	100%
Chilled Water Pumps (Building)	2	100%
Chilled Water Pumps (Chilled Beam Loop)	3	100%
Heating Hot Water System		
Hot Water Heat Exchangers	2	100%
Hot Water Pumps	2	100%
Condensate Return Unit	1	100%
Exhaust Fans	5	100%
Fan Coil / Blower Coil Units	136	20%
Air Terminal Boxes	17	20%
Duct Cooling Coils	3	100%
Chilled Beams	8	100%
Computer Room Air Handling Units	17	100%
Unit Heaters / Convectors	19	20%
Building Automation System	1	100%

4.2 Plumbing Systems

Domestic Water Booster Pump	1	100%
Domestic Water Heaters		
Tank Type	1	100%
Instantaneous	2	100%
Hot Water Recirculation Pumps	1	100%
Plumbing Fixtures*	73	10%
Sump / Sewage Ejector Pumps	2	100%

*Plumbing fixtures include: water closets, urinals, lavatories, sinks

4.3 Life Safety Systems

Fire Alarm System+		
Fire Alarm Control Panel	1	100%
Fire Alarm Remote Annunciator	1	100%
Mass Notification System	1	100%
Fire Alarm Initiating Devices	88	10%
Wet Pipe Fire Sprinkler System+		
Fire Pump*	1	100%

Tamper/Flow Switches	25	15%

*Fire pump is existing, will be tested with this project's load

+Life safety systems will be tested in conjunction with AHJ. Contractor responsible for test schedule coordination.

4.4 Electrical Systems

Lighting Controls / Occupancy Sensors	Lot	50%
Normal Power Distribution	Lot	20%
Emergency Lighting Systems	Lot	100%
Emergency Lighting Power Inverter	1	100%

4.5 Specialty Systems

Building Envelope		
Fenestration (AAMA 502)	203	10%
Air/Vapor Barrier	1	100%
Control Systems Integration	1	100%
Utility Metering/Sub-Metering	Lot	100%
Electronic Security Access and Surveillance+	Lot	25%
Telecommunications	Lot	25%

+Security and surveillance systems will be tested in conjunction USMA post SME. Contractor responsible for test schedule coordination

5 ABBREVIATIONS AND DEFINITIONS

5.1 Abbreviations

The following are common abbreviations used throughout the Commissioning Process:

A/E	Architect / Engineer		PFC	Pre-Functional Checklist
CM	Construction Manager		PM	Project Manager
CxC	Construction Commissioning Agent		RFP	Request for Proposal
CxD	Design Commissioning Agent		SC	Subcontractor
Cx	Commissioning		SI	Systems Integrator
EC	Electrical Contractor		TAB	Test and Balance Contractor
FPT	Functional Performance Test		TCC	Temperature Control Contractor
GC	General Contractor		USMA	US Military Academy at West Point
MC	Mechanical Contractor		USACE	US Army Corps of Engineers

5.2 Definitions

Basis of Design Document: A document that records the concepts, calculations, decisions, and product selections used to meet the owner's project requirements and to satisfy applicable regulatory requirements, standards, and guidelines. The document includes both narrative descriptions and lists of individual items that support the design process.

Commissioning Authority: An entity identified by the owner who plans, schedules, and coordinates the commissioning team to implement the commissioning process.

Commissioning Plan: A document that outlines the organization, allocation of resources, and documentation requirements of the commissioning process.

Commissioning Process: A quality-focused process for enhancing the delivery of a project. The process focuses on verifying and documenting that the facility and all its systems and assemblies are planned, designed, installed, tested, operated, and maintained to meet the owner's project requirements.

Commissioning Team: The individuals who through coordinated actions are responsible for implementing the commissioning process.

Corrective Issue Report: A report generated by the Cx Authority during functional performance testing documenting issues found during the testing procedures that require follow-up corrective action.

Functional Performance Testing: The process by which specific documents, components, equipment, assemblies, systems, and interfaces among systems are confirmed to comply with the criteria described in the owner's project requirements.

Owners Project Requirements: A written document that details the functional requirements of the project and the expectations of how the building will be used and operated. This includes project and design goals, measurable performance criteria, budgets, schedules, success criteria, and supporting information. For this project, the design RFP will serve as the Owners Project Requirements document.

Pre-Functional Checklist: A form used by the contractor to verify that appropriate components are on-site, correctly installed, functional and ready for functional performance testing.

Systems Manuals: The systems manuals include information related to the systems, assemblies and the commissioning process, incorporated into a usable information resource, with indexes and cross references. Information included in the Systems Manuals: owner's project requirements, basis of design document, commissioning plan, commissioning process progress reports, manufacturer installation manuals, manufacturer operation and maintenance manuals, test reports and record drawings.

6 COMMISSIONING TEAM

6.1 Team Structure

The Commissioning Team shall consist of representatives from each of the following parties involved in the design, construction and operation of this facility: 1) Owner, Facilities Operations & Users; 2) Architect & Design Professionals; 3) Construction Manager; 4) Contractor, Subcontractors & Equipment Suppliers; and 5) the Commissioning Authority. The time at which individual members join the team and the level of their participation during the different phases of the project will vary from member to member.

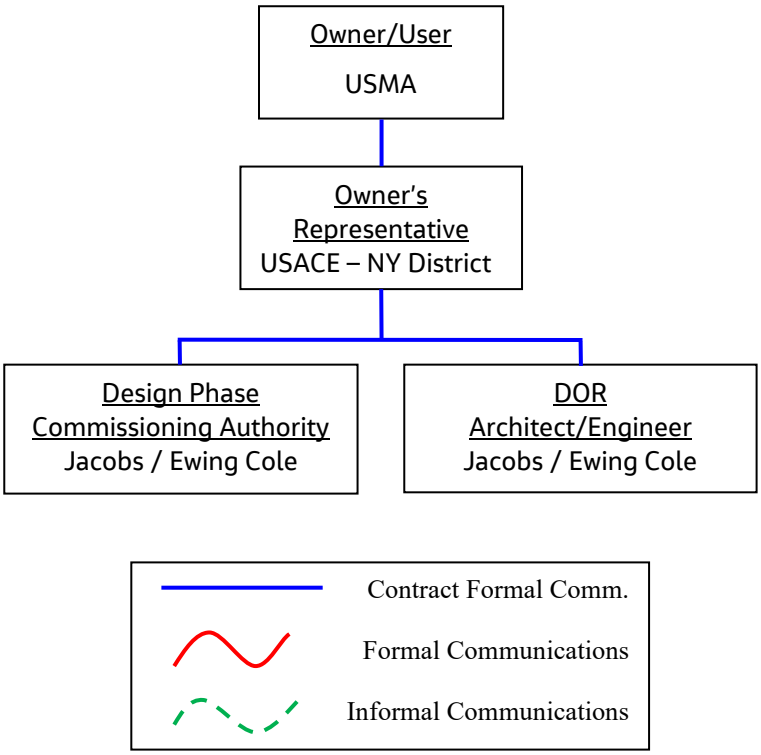

Figure 4-1: Commissioning Team Organization Chart

Following are the Commissioning Team Members and Contact Information:

Team Member	Organization	Role	Phone	Email
Barbara Kolonauski	Jacobs/Ewing Cole	DOR / Architect	215.923.2020	bkolonauski@ewingcole.com
Mike Teague	Jacobs/Ewing Cole	CxA	312.636.8919	michael.teague@jacobs.com
August Boschert	Jacobs/Ewing Cole	DOR / MEP	571.218.1284	august.boschert@jacobs.com

6.2 Roles and Responsibilities

6.2.1 Owner / Owner Representative

The Owner (USMA) and owner's representatives (USACE) play an important role in the commissioning process throughout the duration of this project. The owner facilitates and supports the Cx Authority and is the party who provides final acceptance of the commissioning process. Following is an outlined summary of responsibilities for the representatives of the USMA and USACE:

- Provide the owner's project requirements documented for the project in the form of project RFP.
- Attend design & construction phase meetings and provide input to design discussions and construction activities.
- Review and approve any changes made to the basis of design
- Lead the design submission review and backcheck activities and meetings
- Review commissioning plan and specifications
- Review draft pre-functional checklists and functional performance test procedures
- Assign operations and maintenance personnel and schedule them to participate in the various progress meetings, training sessions, and observations & inspections.
- Review RFI's, submittals, and operations & maintenance manuals
- Review training plan and attend all training sessions
- Attend commissioning team meetings as scheduled by the commissioning authority. Fully support decisions made by the team and lead USMA coordinated activities
- Review systems manual and final commissioning report

6.2.2 Designers of Record

The various disciplines of the design team will collaborate closely with the commissioning authority to ensure the design is clear and when complete meets the owner's project requirements, as well as addressing issues raised during the design of the project. Following is an outlined summary of responsibilities for the designers of record:

- Review the owner's project requirements (project RFP)
- Develop of the basis of design document.
- Review the Cx Plan and specifications and incorporate into the contract documents, including the integration of the commissioning process requirements and activities.
- Attend the pre-design and design phase coordination and review meetings.
- Attend the construction phase pre-bid and pre-construction meetings.
- Attend the commissioning team meetings.
- Review and incorporate, as appropriate, the commissioning authority's comments from their design reviews.
- Review draft pre-functional checklists and functional performance test procedures to ensure they meet the design intent and match the desired sequences of operation
- Review and incorporate, as appropriate, the commissioning authority's comments on submittals and shop drawings
- Participate in the initial operation and maintenance personnel and occupant training session by presenting the project basis of design.
- Specify and verify that adequate training requirements are provided in the contract documents.
- Collaborate with the commissioning authority to develop the final detailed functional performance test procedures for control/building automation systems, based on the system shop drawings and submittals.

6.2.3 Commissioning Authority

The commissioning authority will organize and lead the commissioning team.

- Review the owner's project requirements.
- Verify the commissioning process activities are clearly identified in the contract documents.
- Integrate the commissioning process activities into the proposed project schedule.
- Prepare a commissioning plan that describes the extent of the commissioning process to accomplish the owner's project requirements. Update the Cx plan throughout the project to incorporate changes and additional information.
- Review the contract documents with respect to completeness in all areas relating to the commissioning process. This includes verifying that the owner's project requirements have been achieved, and that there are adequate devices included in the design to properly test the systems and assemblies and document proper performance.
- Develop preliminary pre-functional checklists. These preliminary checklists will be updated by the construction phase CxA with submitted equipment information at the appropriate time.
- Develop preliminary pre-verification tests and functional test procedures. These preliminary test procedures will be updated by the construction phase CxA once the final equipment selections and sequences of operation are approved.

- Develop the issues log to be used throughout the duration of the project.
- Coordinate contractor training specification requirements
- Conduct a Commissioning Team kick-off meeting. The intent of the meeting will be to present the Commissioning specification requirements, test procedures, and scheduling.
- Conduct and document Commissioning meetings.
- Prepare the Systems Manual including system descriptions, single line diagrams, sequence of operations overview, control diagrams, recommendations for maintenance requirements and re-testing and calibration recommendations.
- Randomly sample the completion of the Pre-Functional Checklists.
- Work with the contractor in resolving any issues identified during QA/QC or Functional Performance Testing.
- Review and comment on any changes to the Basis of Design document prepared by the Design Team.
- Assist the Construction Manager, subcontractors, and Owner's Project Manager in incorporating Commissioning activities into the master project schedule.
- Review equipment shop drawings and coordination drawings applicable to systems to be commissioned concurrent with the Design Team's review for compliance with the contract documents, the owner's project requirements, and the basis of design. Submit review comments to the Design Team for inclusion with their review comments.
- Review O&M manuals applicable to systems to be commissioned concurrent with the Design Team's review. Submit review comments to the Design Team.
- Review additional Construction Phase documentation, ASIs, RFIs, Change Orders, Meeting Minutes, and other correspondence required to place and perform commissioning tasks.
- Perform site visits, in conjunction with Commissioning meetings, to observe component and system installations. Attend selected planning and job site meetings to obtain information on construction progress.
- Review testing, adjusting, and balancing (TAB) report and training plans.
- Prepare final Functional Performance Test Procedures reflective of the approved equipment/system shop drawings and the final Basis of Design. These will be distributed to the Owner, Design Team, and Construction Manager for distribution to all affected contractors for their review.
- Witness system and assembly Functional Performance Testing. List any deficiencies on systems in the Corrective Issues Report and provide to the Owner, Design Team, and contractors for review and corrections. Include completed Functional Performance Test Procedures within the Final Commissioning Report.
- Assemble the final Commissioning documentation, including the Commissioning Report, the Systems Manual, and all record documents. Submit this documentation to the Owner for review and acceptance.
- Witness deferred and seasonal functional performance testing.

6.2.4 Contractors

Contractors are responsible for integrating the Commissioning Process into their operations. Primarily, this includes educating their workers on what commissioning is, this Project's Basis of Design, and the responsibility of each worker to perform a quality job. The forms provided by the Cx Authority shall be completed by the individual workers as appropriate and the Functional Performance Tests completed per the oversight of the Cx Authority. Following is an outlined summary of the Contractor's responsibilities:

- Review Construction Phase Commissioning documentation including, but not limited to site observation reports, Pre-Functional Checklists, and submittal reviews.
- Participate in Commissioning meetings.
- Notify the Commissioning Authority when systems and assemblies are ready for functional performance testing through the completion of the Pre-Functional Checklists.
- Copy all meeting minutes to the Commissioning Authority for informational purposes.
- Incorporate Commissioning activities into the master project schedule. This scheduling shall involve the Commissioning Authority and installation contractors. Provide the Commissioning Authority with schedule updates at least monthly.
- Consolidate and manage the system/equipment O&M manual preparation process by the installation contractors. Submit the systems/equipment O&M manuals to the Commissioning Authority for review and inclusion in the Cx close-out documentation prior to submission of completed Pre-Functional Checklists.
- Manage the training plan submittal process by the installation contractors. Submit training plans to the Commissioning Authority for review.
- Submit QA/QC testing and start-up report documentation for review by the Owner, Design Team and Commissioning Authority.
- Verify completion of the Pre-Functional Checklists by the appropriate subcontractor as the work is accomplished. Submit completed Pre-Functional Checklists to the Commissioning Authority prior to certifying systems are ready for Functional Performance Testing.
- Keep the Commissioning Authority updated of any construction changes to the systems being commissioned, including copies of all relevant Requests for Information and Change Orders.
- Coordinate all subcontractor participation and provide any required equipment necessary for Functional Performance Testing. Equipment required for testing shall have valid calibration certificates.
- Remedy deficiencies identified by the Commissioning Authority during Functional Performance Testing and noted within the Corrective Issues Report.
- Attend warranty review meeting.
- Attend and assist with seasonal performance testing.

7 DESIGN PHASE COMMISSIONING

7.1 Design Phase Overview

During the design phase of the project delivery process, the owner's project requirements are translated into construction documents.

The Cx Authority provides focused reviews of the contract documents at the various stages of completion to ensure the Cx process requirements are incorporated into the contract documents.

The Cx Authority reviews the basis of design document. The intent of the basis of design is to clearly convey the assumptions made in developing a design solution that fulfills the intent and criteria in the owner's project requirements. Narrative descriptions of facility systems and assemblies are developed and included.

7.2 Design Phase Commissioning Activities

7.2.1 Review Owners Project Requirements

The owner's project requirements (OPR) is a document that evolves through each project phase. It is the intention that as decisions are made during the design, construction, and operations / occupancy phases, that this document be updated to reflect the current project requirements of the owner. It is the primary tool for benchmarking success and quality at all phases of the project delivery and throughout the life of the facility.

The OPR forms the basis from which all design, construction, acceptance, and operational decisions are made. An effective commissioning process depends on a clear, concise and comprehensive OPR document.

The OPR is a written document that details the functional requirements of the facility and the expectations of how it will be used and operated. This document includes project and design goals, budgets, owner directives, schedules, and supporting information. It also includes information necessary for all disciplines to properly plan, design, construct, operate and maintain systems and assemblies.

The design phase commissioning authority reviewed the OPR. For this project the request for proposal to the architect and engineers is considered the OPR document. Since there is such a large amount of information generated in the design phase, only the concepts most important to the owner will be included. Information extraneous to the actual design, such as justification for the facility, permitting details, history or policy issues, etc., are not part of the OPR.

7.2.2 Develop Commissioning Plan

The commissioning plan identifies processes and procedures necessary for a successful commissioning process. The commissioning plan addresses the owner's project requirements and reflects the defined scope and budget for the commissioning process. Also included in the commissioning plan is the commissioning team structure along with a description of each team member's roles and responsibilities.

The commissioning plan will develop further during the construction phase to include the commissioning process procedures for the duration of the project. This plan can then be used by all project team members as a reference guide or handbook for the commissioning process.

7.2.3 Establish Issues Log Procedures

The project issues log contains detailed descriptions of design, installation, or performance issues that are discovered through the commissioning process. The Cx Authority will prepare and update the log. The Cx Authority will track Issues as they are encountered during the design, construction, and operation phases of the project. The Cx Authority will maintain the log with the status of all current and resolved Issues.

On a periodic basis the Cx Authority will generate a written narrative report describing the outstanding Issues and the status of each issue. Copies of these reports will be forwarded to the commissioning team members for review. Outstanding issues will be discussed, and a completion plan will be implemented.

7.2.4 Develop Commissioning Specifications

The Cx Authority will develop a project specific commissioning specification section to be included in the project specifications. This specification section will be numbered 01 91 10.00 15. Being included in Division 01, this specification section outlines the administrative requirements of the Cx Process and the Cx Authority involvement with the Contractor.

The commissioning process integrates with many other administrative procedures. The Cx Authority will review the complete set of specifications to insure proper cross references are made to all related sections. These review comments will be issued to the architect and USACE for review and consideration for inclusion into the contract Documents. The Cx Authority issues the comments to the architect, and it is the architect's responsibility to perform any editing to the specifications.

7.2.5 Review Basis of Design

The basis of design is developed by the design team and, reviewed by the Cx Authority. This document details all assumptions made during the design phase. These assumptions (codes, standards, occupant load, noise criteria, etc.) are typically recorded in the designer's files, but never transmitted to the owner. By documenting the basis of design in a consistent format, the information is captured and stays with the facility for its life. This simplifies future troubleshooting and modification of the facility and its systems. For this project the basis of design document is referred to as the Design Analysis Handbook.

7.2.6 Develop Measurement & Verification Plan

The measurement & verification plan identifies the method for evaluating and tracking the building and/or energy system performance in compliance with the International Performance Measurement and Verification Protocol. The Cx Authority will develop a detailed, project specific measurement and verification plan to indicate systems metering requirements and time period (no less than one-year post construction occupancy). The plan will be developed in collaboration with the design team so that the appropriate level of systems metering is incorporated into the design.

7.2.7 Perform Focused Review of Contract Documents

When the contract documents are issued for review to the project team at the various milestone levels, the Cx Authority will also perform a focused review of the issued documents.

The general quality of the documents is evaluated by checking for consistent layout and legibility of the contract documents. Compliance with the owner's project requirements along with ease of use and clarity are the major issues reviewed. Any previous issues or items of concern identified during previous reviews will be examined to insure these issues have been properly included.

Sample areas of the facility are reviewed in detail to evaluate the coordination accomplished within and among disciplines. This includes reviewing for constructability and interfaces among

disciplines. The intent of this review is to determine if there are systematic errors or omissions, not to fully check the design accuracy of the design team.

Finally, the plans are reviewed from the perspective of facilities management. The Cx Authority offers comments on the design plans to improve accessibility for equipment and component maintenance and access. In addition, the Cx Authority will comment on the ability to replace equipment at the end of its useful life.

7.2.8 Identify Training Requirements

During the design phase the training requirements of the operation and maintenance personnel and occupants are identified relative to the systems and assemblies to be installed in the facility. It is critical that the operations and maintenance personnel have the knowledge and skills required to operate the facility and maintain the operations in an energy efficient and cost effective manner.

The goal of the Cx process is to identify in the specifications the time requirements for each type of system and assembly that requires demonstration and training. Also include the expected experience and knowledge of the trainer, the number of unique training sessions, repeating of training for multiple shifts, and commissioning procedures for submittal of training plan, handouts, record of training, and follow-up evaluation feedback from the attendees.

One additional step the Cx Authority performs is the follow-up evaluation from each of the training session attendees. When the training has been completed, the Cx Authority will issue an evaluation form to each of the attendees. The feedback will be reviewed with the owner, architect and contractor to ensure the objectives of the training session have been met.

7.2.9 Pre-Bid Meeting

During the pre-bid phase, the commissioning authority shall review all commissioning related RFI's in order to clearly define the unique requirements of the commissioning process to the prospective bidders. The CxA shall provide responses that specifically address commissioning process issues.

7.3 Design Phase Documentation

Documentation delivered at the conclusion of the design phase includes:

DOCUMENT	RESPONSIBLE	RECIPIENT
Design Review Comments	CxA	USACE / DOR
Commissioning Specifications	CxA	DOR
Measurement & Verification Plan	CxA	USACE
Commissioning Plan	CxA	USACE
Issues Log	CxA	USACE
Training Requirements Matrix	CxA	USACE / DOR

8 CONSTRUCTION PHASE COMMISSIONING

8.1 Construction Phase Overview

The Construction Phase begins with the Notice to Proceed and concludes on the date of Substantial Completion. During the Construction Phase of the project delivery process, systems and assemblies are installed, inspected, tested, and placed into service to meet the Owner's Project Requirements.

8.2 Construction Phase Commissioning Activities

8.2.1 Commissioning Kick-Off Meeting

The Commissioning Authority will conduct a Commissioning Kick-off Meeting to introduce the Contractor and Subcontractors to the Commissioning Process requirements for the project. The Owner's Project Requirements, Basis of Design, Commissioning Plan, and unique Contract Document requirements are reviewed. In addition, the specific roles and responsibilities of each Contractor relative to the Commissioning Process are reviewed.

8.2.2 Update Commissioning Plan

The Commissioning Plan identifies processes and procedures necessary for a successful Commissioning Process. The Commissioning Plan addresses the Owner's Project Requirements and reflects the defined scope and budget for the Commissioning Process. Also included in the Commissioning Plan is the Commissioning Team structure along with a description of each Team Member's role and responsibilities. This Plan can be used by all Project Team Members as a reference guide or handbook for the Commissioning Process.

8.2.3 Update Measurement & Verification Plan

The Measurement and Verification Plan details the expected values of each end use based on the design energy modeling and outlines the methods and forms for recording actual building performance. The plan is intended to verify the cost savings associated with energy efficiency measures incorporated into the design and to provide a recalibrated energy model that will serve as a tool for facility operators in identifying and remedying causes of underperformance. Energy conservation measures (ECMs) found to deliver anticipated savings will be considered by the USACE for inclusion in architecture and design standards for future builds of similar properties.

The plan describes the process and responsible parties for:

- Predicting energy use by end use in the project building
- Measuring energy use by end use in the project building
- Calculating actual cost savings
- Corrective action when underperformance occurs

8.2.4 Progress Meetings

The Commissioning Authority will periodically attend the project progress meetings. Attendance at meetings will be infrequent during early construction activities, increasing in frequency as functional testing approaches. The Commissioning Authority has plans to attend 24 meetings through the course of this project, either in person or virtually. The Contractor will be given advance notice prior to a meeting date if the Cx Authority wishes to have an agenda item for that particular meeting.

In addition to the regularly scheduled project progress meetings, the Cx Authority will conduct separate commissioning progress meetings with an agenda focused solely on commissioning-

related issues. The frequency of these meetings is dependent on the progress of the project and the quality of documentation being provided by the commissioning team members. If the project is progressing on schedule and the documentation is current and complete to the state of the project, there will be fewer commissioning progress meetings required. The Cx Authority will notify all expected attendees well in advance of scheduling a commissioning progress meeting. These meetings will usually be held in conjunction with regularly scheduled construction or OAC meetings.

The Cx Authority will also attend milestone coordination and planning meetings at their discretion. Milestone meetings include the TAB conference, equipment start up coordination, etc. The Contractor will alert the Cx Authority of all milestone meetings.

8.2.5 Project Schedule

The Cx Authority will provide to the Contractor a detailed schedule of commissioning activities to be performed on the project. The Contractor is required to incorporate these commissioning activities into the master project schedule. The Cx Authority will be available to assist the Contractor in this effort. As the schedule is updated throughout the construction phase, the Cx Authority will provide input for commissioning activities and review the overall project progress. The Contractor should update the Cx Authority on any schedule changes at least monthly.

A vital activity in the commissioning process is the functional performance testing of the systems being commissioned. It is imperative that adequate time be allotted for this testing in the schedule.

8.2.6 Submittal / Shop Drawing Reviews

All submittals and shop drawings will be sent from the Contractor to USACE. For submittals relating to the systems to be commissioned, USACE will forward one complete copy of the submittal package to the Cx Authority at the same time as forwarding to the Design Team. The Cx Authority will review the submittal package concurrently with the Design Team performing their review. Any comments generated by the Cx Authority will be issued directly to USACE within 14 days of receipt for incorporation with the DOR comments. Electronic submittals are requested and encouraged.

The Cx Authority will review product submittals and shop drawings for Commissioning Process-related information and conformance with the owner's project requirements and the basis of design. Any deviations from the submittal requirements will be compared to the owner's project requirements and the basis of design documents for any positive or negative impacts.

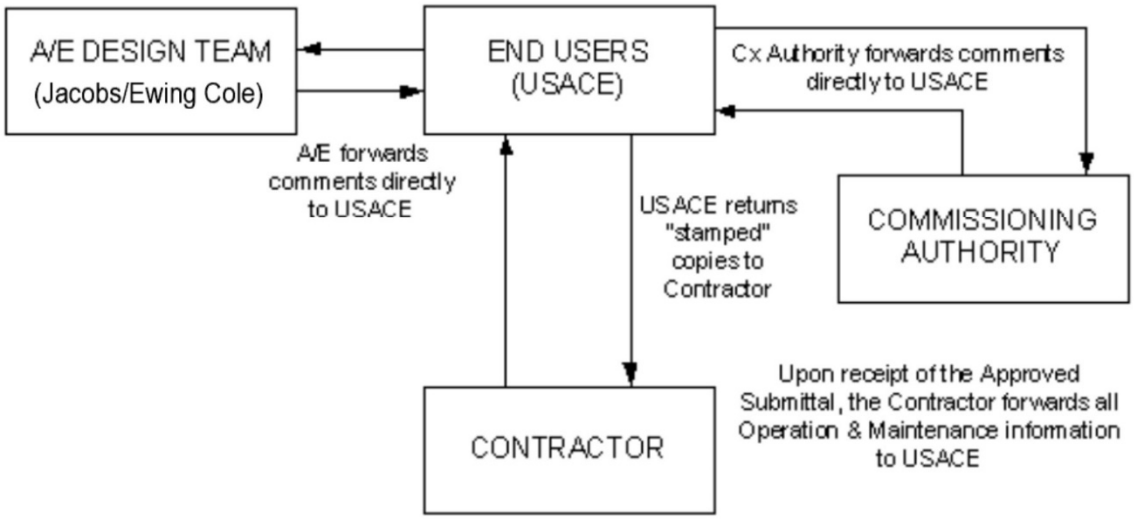

Figure 8-2-1: Commissioning Related Submittal Process Flowchart

8.2.7 RFIs and Change Orders

The Cx Authority will review each RFI relating to system to be commissioned for relevant commissioning information and issue comments directly to USACE. For RFIs, ASIs, and change orders relating to the systems to be commissioned, USACE shall include the Cx Authority in the distribution of answers.

8.2.8 Operation & Maintenance Data

One of the requirements of the commissioning process is to compile all operation & maintenance data PRIOR to performing functional performance testing or owner training sessions. This requires the Contractor to submit the operations & maintenance data to the Design Team and the Cx Authority immediately after completion of the approved submittal package. This should occur by approximately 50% construction completion.

The receipt of this information is required for the development of the functional performance test procedures and the systems manual. It is also a component of the successful completion of the pre-functional checklists.

8.2.9 Pre-Functional Checklists:

Pre-functional checklists are important to ensure that the equipment and systems are installed and operational in accordance with the contract documents and commissioning process, and that functional performance testing may proceed without unnecessary delays. The Cx Authority will develop a pre-functional checklist for each system or major piece of equipment included in the

systems being commissioned (see Section 2 of this plan). The checklists are to be completed by the Contractor and returned to the Cx Authority for inclusion in the final commissioning report.

Pre-functional checklists are primarily static inspections and procedures to prepare the equipment or system for initial operation (e.g. oil levels, fan belt tension, labels affixed, gauges in place, sensor calibration, etc.). Some checklist items entail simple testing of the function of a component, piece of equipment or system (e.g. measuring voltages and current values, checking rotations, etc.). Pre-functional checklists augment and are combined with the manufacturer's start-up procedures. The Cx Authority does not witness the checklist activities, except for QA/QC testing of larger or more critical pieces of equipment, as appropriate.

Pre-functional checklists will be made available through the Cx Authority's online documentation portal (JCx), and the Contractor is encouraged to complete the checklists online to improve communication and reduce delay in information transmission. The Cx Authority will provide JCx access to all commissioning team members free of charge

The checklist is to be completed by the Contractor in five steps as follows:

Step 1: When the equipment is delivered to the site, section 1 of the checklist is to be completed. The intent of this section is to make physical checks for shipping damage and to verify the model & serial information, capacities, and options included as specified.

Numerous problems and delays can be avoided at this time by the identification of possible wrong shipments, incorrect capacities, and missing components.

Step 2: When the equipment is installed, section 2 of the checklist is to be completed by the Contractor. The intent of this section is to assure the equipment is installed per the contract documents and the owner's project requirements.

Step 3: At the time of equipment start-up, section 3 will be completed by the Contractor. For larger or critical equipment, the Cx Authority may witness the start-up procedures. The Contractor is to forward copies of all manufacturer's start-up forms and reports to the Cx Authority upon completion of section 3. The start-up documentation shall be included with the checklists and may be uploaded through the online portal.

Step 4: During the BAS configuration and integration process for the system, section 4 shall be completed by the Contractor. The purpose of this section is to document the full control and monitoring capabilities of the BAS system including alarms, trends, and full range of the sequence of operations.

Step 5: When Sections 1-4 have been completed, the Contractor will complete section 5 to notify the Cx Authority that the equipment or system has been properly installed and started and is ready for functional performance testing.

8.2.10 Site Observations

Periodically during the Construction Phase, the Cx Authority will perform site observation visits. The purpose of these visits is to review the installation progress of the systems being commissioned and to compare the actual job progress with the progress indicated on the pre-functional checklists. The Cx Authority will submit a detailed report of each visit to the members of the Commissioning Team. These site visits will typically correspond with project meeting dates and project progress milestones.

8.2.11 Contractor QA / QC Testing

The Contractor is responsible to provide all quality assurance and quality control testing and administrative procedures as indicated in the contract documents.

The Cx Authority will be notified in advance of all testing performed on the project. Depending on the complexity of the test, the Cx Authority will determine the necessity of witnessing the test procedure. The Contractor is responsible to record all procedures used and results of the testing as required by the contract documents. The Contractor is also responsible for forwarding a copy of ALL test reports to USACE. USACE will forward copies of the reports to the Cx Authority for review and inclusion in the final commissioning report.

8.2.12 TAB Verification

After the TAB report is submitted and approved by the Design Team, the Cx Authority will spot check selected areas to ensure they have not drifted from the reported values. The areas checked will be developed in conjunction with the Design Team and Contractor in accordance with specification section 23 05 93. The Contractor will assist the Cx Authority by providing the balancing man-power and equipment.

8.2.13 Develop Systems Operations & Maintenance Manual

One of the benefits for the facility O&M Personnel from the commissioning process is the systems manual prepared by the Contractor and reviewed by the Cx Authority. Development of the systems manual includes gathering all of the information related to the systems, assemblies and the commissioning process, and incorporating it into a usable information resource, with indices and cross references. This shall include information from the final basis of design document, manufacturer installation manuals, manufacturer operation and maintenance manuals, and building automation system schematics. This information is edited and organized to focus on the systems being commissioned. The systems manuals will prove to be an invaluable reference source throughout the life of the facility.

8.2.14 Pre-Verification Testing

Pre-verification testing is the dynamic testing of systems to confirm they are complete and ready for functional performance testing. Pre-verification testing is performed by the Contractor to discover any issues or problems with the functionality of the system. All system components must be complete prior to beginning the pre-verification testing to ensure all potential issues are discovered and corrected. The Contractor may use the functional performance test procedures provided by the CxA as a guide for pre-verification testing; or may develop their own test procedures. If the Contractor develops separate test procedures, they must be submitted to the DOR and CxA for review and approval.

8.2.15 Functional Performance Test Procedures:

Functional performance testing is the dynamic testing of systems under full operation. Systems are tested under various modes, such as during low cooling or heating loads, high loads, component failures, unoccupied operations, varying outdoor environmental conditions, fire alarm interactions, power failure, etc. The systems are run through all the control system's sequences of operation, and components are verified to be responding as the sequences and contract documents state.

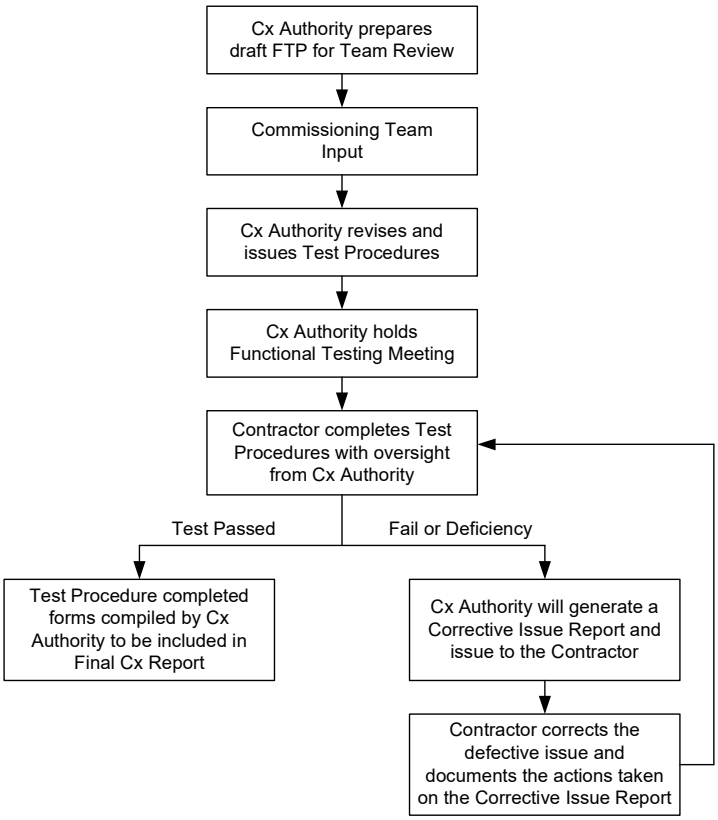

Figure 8-2-2: Functional Test Procedures

Referring to Figure 8-2-2, it must be noted that the Contractor is responsible for performing all actions required to carry out the functional performance test procedures, including providing all required meters, test equipment, laptops, software, radio communication, etc. The Contractor is required to perform the tests because these tests are completed BEFORE the equipment or systems are accepted by the Owner, which means the equipment and systems have not yet been turned over to the Owner and are still the responsibility of the Contractor.

The Cx Authority will develop the test procedures and issue to the Commissioning Team for review and comment. Once the test procedures are finalized, a meeting will be held to plan the sequencing and scheduling of the functional performance testing.

The Cx Authority will be in attendance to oversee ALL functional testing and will be responsible for documenting the actions, results and issues encountered.

8.2.16 Corrective Issue Log

A corrective issue will be recorded by the Cx Authority when issues or problems arise during the functional performance testing. The corrective issue log is separate from the FPT document and will describe the problem condition along with any related reference information and will be issued to the Contractor for corrective action. All corrective issues will be recorded in JCx, and the log may be forwarded to the Commissioning Team periodically. When the necessary corrections have been completed, the Contractor will document the actions taken in JCx and alert the Commissioning Team that the issue is resolved. Depending on the nature of the issue or problem, the Cx Authority,

along with USACE and the Design Team, will determine if re-testing of the equipment or system is necessary.

8.2.17 Coordinate and Verify Training Sessions:

Training is one of the most important aspects of turning the project over to the Owner and the facility O&M personnel. The commissioning process requires all training sessions follow pre-approved agendas, all attendees sign the attendance sheet during the sessions, and a follow-up evaluation is performed to verify that the trainees were provided with the pertinent information to operate and maintain the facility properly.

The Cx Authority will develop a commissioning training form for each training session required by the contract documents including owner-required specific training topics and information for each system to be commissioned. These forms will be given to the Contractor at approximately 50% completion of the construction phase.

The Contractor shall complete and submit a separate training form for each training session required by the contract documents to the Cx Authority. This form shall be submitted a minimum of fourteen (14) calendar days in advance of the proposed training session.

The scheduling and conducting of training sessions is a 4-step process as follows:

Step 1: The Contractor shall complete the first section of the form including the proposed training session date, name of instructor(s), and proposed length (time) of the session(s). An agenda will be attached indicating the format of the training session and listing any handouts that will be provided.

Step 2: The Cx Authority will review the proposed training information with the Owner. If the submitted information is complete and the proposed dates meet the schedule of the Owner's facility O&M personnel, the Commissioning Authority will respond to the Contractor to proceed with scheduling the subject training session.

Step 3: During the training session, the Contractor shall have all attendees sign in the third section of the training form. Attach additional pages if necessary. The Contractor shall forward the completed training form to the Cx Authority after the training session.

Step 4: Upon receipt of the training form, the Cx Authority will request that each attendee complete the evaluation form to gain feedback on the value of the session. If the session meets the objectives and intent of the contract documents, the Cx Authority will approve the training form and provide a copy to the Contractor for project records. If negative feedback is received, the evaluation forms will be reviewed with the Commissioning Team and determine if re-scheduling of the training will be required.

8.3 Construction Phase Acceptance Requirements

Acceptance of the construction phase of the commissioning process requires the Owner's acceptance of the systems manual, submittal/shop drawing reviews, and site observation reports consistent with recommendations of the Design Team and other appropriate Commissioning Team members.

8.4 Construction Phase Documentation

Documentation delivered at the conclusion of the Construction Phase includes:

DOCUMENT	RESPONSIBLE	RECIPIENT
Updated Commissioning Plan	CxA	Cx Team
Updated Measurement & Verification Plan	CxA	USACE / DOR
Submittal Reviews and Comments	CxA	USACE / DOR
Completed Pre-Functional Checklists	Contractor	CxA / USACE
Completed QA / QC Test Reports	Contractor	CxA / USACE / DOR
Approved Testing, Adjusting, and Balancing Report	Contractor	CxA / USACE / DOR
Completed Functional Test Procedures	CxA	USACE / DOR
Commissioning Corrective Issue Log	CxA	USACE / DOR
Completed Training Records	Contractor / CxA	USACE / DOR
System Operations & Maintenance Manual	Contractor	USACE
Draft Commissioning Report	CxA	USACE / DOR
Re-Commissioning Plan	CxA	USACE

9 POST OCCUPANCY PHASE COMMISSIONING

9.1 Post Occupancy Phase Overview

The commissioning process activities underway at this point continue through the end of the contractual warranty/correction period. During the warranty phase, the on-going operation, maintenance, and modification of the facility systems and assemblies, and their associated documentation, are verified against the updated owner's project requirements.

9.2 Post Occupancy Phase Commissioning Activities

9.2.1 Seasonal/Deferred Testing

Verification of the performance of all systems and assemblies being commissioned should be completed at the end of the construction phase. However, certain weather conditions, load conditions, or occupant interactions are required to complete some verification activities. Such deferred functional performance testing will be conducted at an appropriate time, and under appropriate conditions, as early as possible after occupancy. Contractor and appropriate Subcontractors associated with the systems to be tested are required to be on site to participate in this testing

9.2.2 Final Commissioning Report

The final commissioning report compiled by the Cx Authority will be issued to the Owner as record of the commissioning process. This report is a compilation of all the commissioning-related documents, forms, logs, and miscellaneous correspondences that were generated during the project.

Dynamic systems and equipment, as well as static systems, assemblies, and components will tend to migrate from their as-installed conditions (as documented in the final commissioning report). In addition, the needs and demands of facility users and processes typically change as a facility is used. To attain optimal performance of facility systems, periodic verification of system, assembly, and component condition and operation is essential. The various commissioning documents generated during the design and construction of the facility provide the tools and documented benchmarks for evaluation of ongoing performance. Such periodic verification is often best done in the context of a re-commissioning process.

9.2.3 Measurement & Verification

During the first year of operation, the CxA will implement the measurement & verification plan by collecting data from installed sensors and meters. The collected data will be compared against the projected energy use and overall energy performance goals for the facility.

The final measurement & verification report compiled by the CxA shall be issued to the Owner for a record of the measurement & verification process and results. The M&V period shall cover a period of no less than 12 months and no more than 14 months of post-construction occupancy. This initial year performance report will serve as the baseline for all future energy conservation measures as well as a tool for monitoring building performance over its useful life.

9.2.4 Warranty Review Meeting

Ten months into the typical 12-month warranty period, the Cx Authority will reconvene the Commissioning Team to meet with the Owner and facility O&M personnel. This meeting is intended to solicit the user comments, suggestions, and areas of concern regarding the systems and their

first year of operation as well as ensure any know issues are documented prior to the expiration of project warranties.

9.3 Post Occupancy Phase Acceptance Requirements

This phase of the Commissioning Process includes the formal acceptance of any seasonal/deferred functional performance testing and the Final Commissioning Report.

9.4 Post Occupancy Phase Documentation

Documentation delivered at the conclusion of the Occupancy Phase includes:

DOCUMENT	RESPONSIBLE	RECIPIENT
Final Commissioning Report	CxA	USACE / DOR
Measurement & Verification Report	CxA	USACE / DOR
Warranty Review Meeting Minutes	CxA	Cx Team
Final Systems Operations and Maintenance Manual	CxA	USACE