CIVIL/SITE CONSTRUCTION GENERAL NOTES: THESE PLANS REFERENCE LOCATION AND TOPOGRAPHIC SURVEY PREPARED BY: MJ ENGINEERING AND LAND SURVEYING, P.C. NAME: 1533 CRESCENT ROAD CLIFTON PARK, NY 12065 (518) 371-0799 DATED: 01/16/2020 HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 (NAD83) PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE) NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) VERTICAL DATUM: REFERENCE CONTROL POINT IS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NEWBURGH CORS ARP (NYNB) PROVIDE IMPROVEMENTS IN ACCORDANCE WITH UNIFIED FACILITIES GUIDE SPECIFICATIONS LATEST EDITION, WITH AMENDMENTS THERETO AND AS SPECIFIED IN THESE CONTRACT DRAWINGS AND APPENDICES. PRIOR TO ANY CONSTRUCTION, PROVIDE A PHASING PLAN INCLUSIVE OF A WRITTEN SEQUENCE OF CONSTRUCTION AND PLANS SHOWING PHASED WORK AREAS, STOCKPILE AREAS, WORKER PARKING AREAS, TRAILER LOCATION, MATERIAL STORAGE AREAS, MAINTAINED SITE ENTRANCE LOCATION, PORTABLE SANITARY STATIONS, HAUL ROUTES AND ALL OTHER NECESSARY CONTRACTOR CONSTRUCTION AREAS. ALL MATERIAL STORAGE AND CONTRACTOR OPERATIONS MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE IDENTIFIED ON THE PLANS. SUBMIT PHASING PLAN TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL. CONTRACTOR MUST FOLLOW THE HAUL ROUTE AS DEPICTED ON SHEET CS102 "TRUCK ACCESS PLAN". MUST BE FOLLOWED.

- PROVIDE PROPER AND SUFFICIENT CONSTRUCTION PROTECTION TO THE WORKERS AND ALL PERSONNEL ONSITE. OSHA EM 385-1-1, AND OTHER FEDERAL, STATE, AND LOCAL CODES
- WORK AND MATERIAL MUST MEET THE STANDARD DOCUMENTS AND PROCEDURES FOR USMA, INCLUDING REQUIREMENTS OF THE UNITED FACILITIES CRITERIA (UFC), ENGINEERING PLANNING STANDARDS FOR WEST POINT, WEST POINT INSTALLATION DESIGN GUIDE, LOCAL, STATE, AND FEDERAL LAWS, STATUTES, RULES, AND REGULATIONS, LATEST EDITION.
- PERFORM WORK IN A SAFE AND CAUTIOUS MANNER IN ACCORDANCE WITH EM 385-1-1.
- QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. VERIFY ALL QUANTITIES AND PROVIDE SUPERINTENDENCE, MATERIAL, LABOR, SURVEYING, AND COORDINATION NECESSARY TO CONSTRUCT THE PROJECT COMPLETE AND AS GENERALLY INTENDED IN THE CONTRACT DOCUMENTS. CONTRACTOR MUST PROVIDE COORDINATION WITH CONTRACTING OFFICER, USMA AUTHORITIES, AND UTILITIES FOR ALL INTERFACING REQUIRED BY THE PROJECT.
- 8. AT NO COST TO THE GOVERNMENT, DISTURBED AREAS OUTSIDE THE LIMIT OF DISTURBANCE, MUST BE RESTORED TO EXISTING CONDITIONS
- IMPLEMENT AND MAINTAIN ALL SOIL EROSION CONTROL STRUCTURES AND MEASURES THROUGHOUT CONSTRUCTION. FOLLOW NYSDEC SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS.A SEQUENCE OF CONSTRUCTION MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL.
- 10. IN CASE OF DISCREPANCIES BETWEEN THESE PLANS AND THE PROJECT SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT MUST APPLY.
- 11. SUBMISSIONS REQUIRED FOR DOCUMENTATION OF CONFORMANCE TO THE CONTRACT PLANS, DOCUMENTS, AND SPECIFICATIONS MUST BE PROVIDED TO THE CONTRACTING OFFICER FOR DISTRIBUTION TO THE APPROPRIATE REVIEWER.
- 12. INGRESS AND EGRESS TO AND FROM THE CONSTRUCTION SITE MUST BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES. CONSTRUCTION EQUIPMENT MUST NOT OBSTRUCT ROADWAYS AND/OR PASSAGEWAYS UNLESS PRE-APPROVAL IS REQUESTED FROM THE COR 14 DAYS PRIOR TO NEED (FOR ITS SUBMISSION TO USMA AN DPW). NO PARKING OR STOPPING ALONG INGRESS-EGRESS ROUTE WILL BE PERMITTED.
- 13. MAINTAIN THE CONSTRUCTION SITE AND THE AREAS OF WORK DAILY. CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS OR USE OF EXPLOSIVES WILL BE PERMITTED.
- 14. PREPARE, LAYOUT, AND INSTALL WORK IN SUCH A MANNER AS NOT TO DELAY OR INTERFERE WITH THE PROGRESS OF OTHER INSTALLATION CONTRACT WORK AND/OR ANY WORK DESIGNATED TO BE PERFORMED UNDER ANY OTHER CONTRACT ON THE INSTALLATION AND/OR ANY OTHER WORK IN PROGRESS ON THE INSTALLATION.
- 15. PROVIDE ALL TESTING SERVICES AND SUBMIT, TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL. PROVIDE A LIST OF ALL TESTS TO BE PERFORMED BY EACH TESTING SERVICE.
- 16. QUALITY CONTROL INSPECTION AND TESTING MUST BE MADE BY A USACE-APPROVED LABORATORY UNDER CONTRACT TO THE CONTRACTOR. COPIES OF REPORTS AND TESTING RESULTS ASSOCIATED WITH THE CONTRACTOR'S QUALITY CONTROL PROGRAM MUST BE SUBMITTED TO THE CONTRACTING OFFICER.
- 17. ILLUMINATE AND PROTECT ALL ELEMENTS COMPLETED OR PARTIALLY COMPLETED AND EXCAVATED TRENCHES AND OPENINGS AT ALL TIMES TO PROTECT AGAINST INJURY TO WORKERS, PEDESTRIANS, WILDLIFE, ETC.
- 18. DO NOT SCALE DRAWINGS. DETAILS, NOTES, AND THE LIKE ARE TYPICAL AND APPLY IN GENERAL TO SIMILAR CONDITIONS.
- 19. BY SUBMITTING A PROPOSAL OR AGREEMENT TO PERFORM WORK, THE CONTRACTOR AGREES THAT THEY ARE SKILLED AND EXPERIENCED IN THE USE AND INTERPRETATION OF PLANS AND SPECIFICATIONS, THEY HAVE CAREFULLY REVIEWED THE PLANS AND SPECIFICATIONS FOR THIS PROJECT AND HAVE FOUND THEM TO BE FREE OF AMBIGUITIES AND SUFFICIENT FOR BID AND CONSTRUCTION PURPOSES. FURTHER, THEY HAVE CAREFULLY EXAMINED THE SITE OF THE WORK AND FROM THEIR OWN OBSERVATIONS ARE SATISFIED AS TO THE NATURE AND LOCATION OF THE WORK; THE CHARACTER, QUALITY, AND QUANTITY OF MATERIALS; THE DIFFICULTIES LIKELY TO BE ENCOUNTERED, AND OTHER ITEMS WHICH MAY AFFECT THE PERFORMANCE OF WORK OTHERWISE, COMPLY WITH NYSDEC AND NYSDOT REQUIREMENTS.
- 20. WORK MUST BE SCHEDULED AND FULLY COORDINATED IN ADVANCE OF PERFORMANCE WITH THE CONTRACTING OFFICER.
- 21. ALL CURB/EDGE OF PAVEMENT RADII ARE MINIMUM 3' UNLESS OTHERWISE NOTED.
- 22. PROVIDE MAINTENANCE OF TRAFFIC PLANS AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REQUIREMENTS. COORDINATE WITH THE CONTRACTING OFFICER.
- 23. THE CONTRACTOR MUST FOLLOW ALL LIFE SAFETY MEASURES APPLICABLE TO THE PROJECT. FIRETRUCK ACCESS TO CULLUM HALL AND THE SURROUNDING BUILDINGS MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR MUST NOTIFY WEST POINT FIRE DEPARTMENT AND DPW 14-DAYS PRIOR TO ANY ACTIVITY THAT PREVENTS FIRE TRUCK ACCESS TO THE
- 24. STRICTLY OBSERVE POLICE AND FIRE PREVENTION CODES AND REGULATIONS AT ALL TIMES.
- 25. THE CONTRACTOR MUST MAINTAIN OPEN TWO-WAY TRAFFIC ROUTES ALONG CULLUM ROAD FOR VEHICLES AT ALL TIMES. THE CONTRACTOR MUST SUBMIT A TRAFFIC SAFETY PLAN OR ROADWAY CLOSURE PLAN TO WEST POINT DPW FOR APPROVAL. 14-DAYS PRIOR TO ANY LANE OR ROADWAY CLOSURE.
- 26. THE CONTRACTOR MUST DESIGNATE A VEHICLE TIRE WASH AREA AND COORDINATE THE LOCATION WITH THE CONTRACTING OFFICER. ALL CONSTRUCTION VEHICLES MUST BE WASHED PRIOR TO LEAVING THE PROJECT SITE. THE WASH AREA MUST BE SWEPT CLEAN DAILY AND ACCEPTED BY THE CONTRACTING OFFICER.
- 27. CLEANING/WASHOUT OF CONCRETE DELIVERY VEHICLES MUST BE LIMITED TO CLEANING THE CHUTES WITH AS LITTLE WATER AS POSSIBLE. THE WATER MUST BE DISCHARGED INTO ONE OF THE FOLLOWING:
- FOR CONCRETE DELIVERIES EXCEEDING 30 CY OVER A 1 WEEK PERIOD: PROVIDE A PORTABLE, SELF-CONTAINED AND WATERTIGHT ROLL-OFF METAL BIN/CONTAINER THAT IS DELIVERED AND COLLECTED BY A FIRM THAT SPECIALIZES IN CONCRETE
- WASHOUT CONTAINERS AND RECYCLING.
- FOR PERIODIC CONCRETE DELIVERIES LESS THAN 30 CY OVER A 1 WEEK PERIOD THE FOLLOWING WASH-OUT CONTAINER IS ACCEPTABLE: A HEAVY-DUTY, WOVEN POLYPROPYLENE OUTER BAG WITH 6-MM CORRUGATED PLASTIC INNER WALLS OR A 6-MM POLYETHYLENE LINER.
- A WATER RESISTANT CORRUGATED BOX AND A 6-MM POLY LINER.
- A REINFORCED PVC, UV AND WEATHER RESISTANT FORMED STRUCTURE.

THE WASHOUT STRUCTURE SHALL BE STURDY ENOUGH FOR PICK-UP AND REMOVAL ONCE THE CONCRETE HAS HARDENED. IT SHALL BE PLACED AND SECURED IN A LEVEL AREA AWAY FROM ANY STORM DRAINS AND WATERCOURSES. ONCE THE CONCRETE HAS HARDENED, ANY REMAINING WATER SHALL BE PUMPED FROM THE WASHOUT AND DISPOSED OF AT A FACILITY PERMITTED TO RECEIVE LIQUID WASTE. THE SOLID CONCRETE RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE DRUM OF THE TRUCK BE EMPTIED OF EXCESS CONCRETE AND/OR WASHED-OUT ON SITE. SIMILAR PROCEDURES SHALL BE ADHERED TO FOR WASHOUT OF PORTABLE CEMENT AND CONCRETE MIXERS.

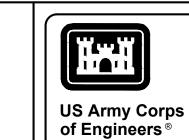
SUBMIT SHOP DRAWINGS OF THE PROPOSED WASHOUT CONTAINER AND LOCATION FOR APPROVAL PRIOR TO ANY CONCRETE DELIVERY

DEMOLITION NOTES:

- BEFORE THE EXECUTION OF WORK, FOLLOW THE USMA DPW DIG SAFE GUIDELINES WITHIN AND OBTAIN A PROJECT DIG SAFE PERMIT FOR UTILITIES ON/ADJACENT TO THE SITE. CONTACT " DIG SAFELY NY" AT 811 PRIOR TO CONSTRUCTION. NOTIFY NYS ONE-CALL AND ALL LOCAL UTILITY COMPANIES/PURVEYORS OWNING OR HAVING JURISDICTION CONCERNING UTILITIES.
- THE INTENT OF THE DEMOLITION SHOWN ON THE DRAWINGS IS TO GENERALLY OUTLINE THE TYPES OF MATERIALS TO BE REMOVED AND THE LIMITS OF THE REMOVALS. THE QUANTITY OF ITEMS TO BE REMOVED WITHIN THE LIMIT OF DEMOLITION MAY VARY FROM THOSE DEPICTED ON THE PLANS. THE INTENT AND REQUIREMENT IS FOR THE CONTRACTOR TO REMOVE THE EXISTING VEGETATION AND IMPROVEMENTS AND REGRADE AS REQUIRED TO CONSTRUCT THE PROPOSED DEVELOPMENT. ALL MEANS AND METHODS INCLUDING SAFETY REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- SURFACE AND SUBGRADE DISTURBANCE BELOW THE PAVEMENT DGA MUST NOT EXCEED 0.99 AC. WITHIN THE PROJECT LIMIT OF DISTURBANCE. CONTRACTOR MUST NOTIFY CONTRACTING OFFICER IF THE DISTURBANCE THRESHOLD WILL BE EXCEEDED PRIOR TO ANY EXCAVATION.
- REMOVE SIGNS, STRUCTURES, FENCES, AND EXISTING IMPROVEMENTS FROM THE CONSTRUCTION SITE AS REQUIRED. THE SITE MUST BE LEFT IN AN ORDERLY AND NEAT CONDITION.
- REMOVE/RELOCATE EXISTING UTILITY SERVICES, WHERE SHOWN ON PLANS AND UNCOVERED BY DEMOLITION, CONSISTENT WITH THE DRAWINGS AND TO THE EXTENT AND MANNER SATISFACTORY TO THE CONTRACTING OFFICER AND UTILITY COMPANIES INVOLVED.
- PIPES, CULVERTS, ETC. WITHIN AND NEAR THE AREA OF WORK MUST BE KEPT FREE FROM MATERIAL ENTERING THE DRAINAGE SYSTEMS DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, REMOVE ALL ACCUMULATED SEDIMENT. DISPOSE OF ALL UNSUITABLE OR EXCESS EXCAVATED MATERIALS OFF OF GOVERNMENT PROPERTY.
- EXERCISE CARE TO PREVENT DAMAGE TO AND PROTECT ANY MATERIALS OR STRUCTURES THAT ARE TO REMAIN IN PLACE. TAKE ALL NECESSARY PRECAUTIONS IN EXCAVATING AND HAND EXCAVATE AS DEEMED NECESSARY TO PROTECT SUBSURFACE UTILITIES. DAMAGE TO ANY EXISTING UTILITY RESULTING FROM THE CONTRACTOR'S OPERATIONS MUST BE IMMEDIATELY REPAIRED IN A MANNER AS APPROVED BY THE CONTRACTING OFFICER AT NO ADDITIONAL COST TO THE GOVERNMENT. IF THE CONTRACTING OFFICER DEEMS IT IS NECESSARY, THE CONTRACTING OFFICER CAN REQUIRE REPAIR OPERATIONS TO BE PERFORMED CONTINUOUSLY UNTIL WORKS ARE ACCEPTABLE TO THE CONTRACTING OFFICER AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
- DESIGN TEMPORARY CLOSURES, BARRICADES, RAILINGS, AND TEMPORARY PROTECTION USED TO PROTECT THE WORK, AND PERSONNEL IN ACCORDANCE WITH EM 385, CHAPTER 23. IF REQUESTED, PROVIDE DRAWINGS INDICATING THE LOCATIONS, EXTENT, AND CONSTRUCTION DETAILS OF SAME. ALL TEMPORARY CONSTRUCTION STRUCTURES MUST BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- PROTECT ALL AREAS OUTSIDE THE LIMIT OF DISTURBANCE WHICH ARE ADJACENT TO CONSTRUCTION ACTIVITY. ALL AREAS OUTSIDE THE LIMIT OF DISTURBANCE WHICH ARE DAMAGED BY THE CONTRACTOR, MUST BE RESTORED TO THEIR ORIGINAL CONDITION AND THAT OF THE SURROUNDING AREA. THE RESTORATION MUST BE DONE AT NO ADDITIONAL COST TO THE GOVERNMENT AND MUST BE APPROVED BY CONTRACTING OFFICER.
- 10. HAUL EXCAVATED SOIL, DEMOLISHED MATERIAL, RUBBISH AND DEBRIS OFF-SITE AND OFF INSTALLATION EXCEPT ITEMS DIRECTED BY THE CONTRACTING OFFICER TO BE SALVAGED. DEMOLISHED MATERIAL TO BE MANAGED ACCORDING TO THE PROJECT ENVIRONMENTAL CONTROLS SPECIFICATIONS. ITEMS FROM THE SITE MUST BE LEGALLY DISPOSED OF WITHOUT DISRUPTING VEHICULAR OR PEDESTRIAN FLOW.
- 11. RE-USE/PROCESSING OF ASPHALT/CONCRETE WILL NOT BE ALLOWED ON SITE.
- 12. PREVENT CONTAMINATED WATER, GASOLINE, OR ANY OTHER CONTAMINANTS FROM ENTERING THE PROJECT AREAS. FOLLOW REQUIREMENTS FOR SPILL
- 13. MANAGEMENT OF WASTES GENERATED FROM THIS PROJECT AS WELL AS UNKNOWN CONTAMINATION IS ADDRESSED IN THE CONTRACT DOCUMENTS.
- 14. CONTROL DUST BY PERIODICALLY SPRAYING WORK AREA WITH WATER, PER NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- 15. EXISTING INLETS, STORMWATER PIPING AND/OR SWALES IMMEDIATELY BELOW THE DISTURBED AREAS MUST HAVE EROSION CONTROL WORKS INSTALLED TO PREVENT ENTRY OF SEDIMENT DURING CONSTRUCTION. DISTURBED AREAS MUST BE STABILIZED IN ACCORDANCE WITH THE SOIL EROSION CONTROL PLAN AND NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION. A SEQUENCE OF CONSTRUCTION SCHEDULE MUST BE SUBMITTED AND APPROVED BY THE CONTRACTING OFFICER PRIOR TO START OF WORK.
- 16. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS, EQUIPMENT, AND UNUSED MATERIALS FROM GOVERNMENT PROPERTY
- 17. THE CONTRACTOR MUST FOLLOW THE GUIDELINES OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY FOR SHORT TERM NOISE STANDARDS.
- 18. THE ABATEMENT OF HAZARDOUS MATERIALS, IF ENCOUNTERED, MUST BE COMPLETED IN ACCORDANCE WITH THE PROJECT DOCUMENTS TO THE SATISFACTION OF THE GOVERNMENT.

GRADING NOTES:

- 1. THE GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR THIS PROJECT IS INCLUDED IN THE PROJECT SPECIFICATIONS AND MUST BE REVIEWED THOROUGHLY PRIOR TO BID SUBMISSION / CONSTRUCTION. REFER TO GEOTECHNICAL REPORT FOR CLASSIFICATION OF SUBGRADE MATERIALS.
- DESIGN TEMPORARY CONSTRUCTION STRUCTURES SUCH AS SHEETING & SHORING FOR EXCAVATIONS. PROVIDE DESIGN CALCULATIONS AND DRAWINGS SHOWING LOCATION, EXTENT, AND CONSTRUCTION DETAILS OF SAID TEMPORARY STRUCTURES AND SUPPORTS PROPOSED. DOCUMENTS MUST BE PREPARED AND SEALED BY A NYS LICENSED PROFESSIONAL ENGINEER. CONTRACTOR MUST SUBMIT A TASK SPECIFIC EXCAVATION AND SHORING PLAN TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO ANY SITE EXCAVATION.
- MAXIMUM SLOPE OF RESTORED AREAS MUST BE 3:1 UNLESS OTHERWISE NOTED. ALL EXPOSED EXCAVATIONS MUST BE STABILIZED IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), LATEST EDITION.
- ALL SUBBASE AND SUBBASES MATERIAL MUST BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. PROVIDE CERTIFICATION BY A PROFESSIONAL GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF NEW YORK THAT ALL SUBGRADE, FILL, AND SUBBASE BELOW AND AGAINST IMPROVEMENTS INCLUDING FOUNDATIONS, PAVEMENT, BELOW GRADE STRUCTURES, SIDEWALKS, WALLS, AND OTHER PROJECT COMPONENTS HAVE BEEN COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- NOTIFY THE CONTRACTING OFFICER OF ANY SUBGRADES NOT MEETING THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. PROVIDE THE CONTRACTING OFFICER WITH RECOMMENDATIONS FOR REMOVAL LIMITS.
- 6. ALL IMPORTED FILL MATERIAL MUST BE OBTAINED FROM AN APPROVED OFF-POST BORROW AREA. ALL EXCAVATED MATERIAL FROM THE PROJECT SITE MUST BE DISPOSED OFF-POST AS WASTE, REFER TO THE PROJECT SPECIFICATIONS FOR SATISFACTORY MATERIAL REQUIREMENTS.
- BORROW OR SELECT FILL MUST BE SELECT GRANULAR FILL PURCHASED FROM AN APPROVED SAND AND GRAVEL COMPANY AND BROUGHT TO THE CULLUM HALL SITE. THE SAND AND GRAVEL COMPANY MUST SUBMIT A CERTIFICATE OF COMPLIANCE WITH CONTRACT SPECIFICATIONS. CONTRACTOR MUST SUBMIT DOCUMENTATION THAT BORROW/SELECT FILL COMPLY WITH THE CONTRACT DOCUMENTS, FEDERAL, STATE AND LOCAL REQUIREMENTS. CONTRACTOR MUST SUBMIT BORROW SITE AND TESTING DATA PER THE PROJECT SPECIFICATIONS.
- 8. THE BOTTOM OF ALL EXCAVATIONS OR FOUNDATIONS MUST BE SCARFIED TO A MINIMUM DEPTH OF 6" AND COMPACT AS INDICATED WITHIN THE CONTRACT DOCUMENTS.
- 9. ALL EXCAVATED MATERIAL MUST BE HAULED OFF-SITE AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 10. PROPOSED SPOT ELEVATIONS AND CONTOURS SHOWN ARE FINISHED GRADE UNLESS OTHERWISE NOTED.
- 11. ALL EXISTING GRADES MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- 12. PROVIDE GRADE SHEETS TO THE CONTRACTING OFFICER FOR REVIEW PRIOR TO PAVEMENT/CURBING/SIDEWALK INSTALLATION.
- 13. THE MAXIMUM GRADE WITHIN ACCESSIBLE PARKING STALLS/ACCESS AISLES MUST BE 2.0%.
- ACCESSIBLE ACCESS WAYS AND IMPROVEMENTS MUST BE IN ACCORDANCE WITH FEDERAL REQUIREMENTS.



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IDENTIFICATION

1.	DESIGN IS BASED ON THE FOLLOWING MATERIAL STRENGTHS USING NORMAL WEIGHT CONCRETE:
	A. 28-DAY CONCRETE CYLINDER STRENGTH: SLABS ON GROUND 4,000 PSI
	B. DEFORMED BAR REINFORCEMENT 60,000 PSI C. WELDED WIRE REINFORCEMENT 65,000 PSI
2.	PROVIDE THE FOLLOWING MINIMUM COVER FOR REINFORCEMENT:
	A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH3 IN. B. CONCRETE EXPOSED TO WEATHER.
	NO. 6 THROUGH NO. 18 BARS
3.	PROVIDE ½" PRE-FORMED EXPANSION JOINTS AGAINST ALL HARD SURFACES INCLUDING BUT NOT LIMITED TO
	OTHER CONCRETE STRUCTURES, MASONRY OF ANY KIND, METALS OF ANY KIND, ETC.
DF	RAINAGE & UTILITY NOTES:
1.	NOTIFY AND COORDINATE WITH WEST POINT DPW AND/OR UTILITY COMPANIES FOR ALL UTILITY RELATED WORK.
2.	REFER TO ALL CONTRACT DRAWINGS FOR LOCATION AND SIZES OF GAS, ELECTRICAL, TELECOMMUNICATIONS, STORM, WATER, AND SANITARY CONNECTIONS TO THE BUILDING.
3.	PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST OBTAIN A USMA DPW DIG SAFE PERMIT FOR THE PROJECT.
4.	LOCATION AND SIZES OF UTILITIES ARE APPROXIMATE. CONSTRUCTION MUST COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS U GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY TEST PIT(S) PRIOR TO PURCHASING MATERIALS AND THE COMMENCEMENT OF CONSTRUCTION. DISCREPANCIES MUST BE REPORTED IMMEDIATELY IN WRITING TO THE CONTRACTING OFFICER.
5.	THE CONTRACTOR MUST PROTECT ADJACENT UTILITIES DURING CONSTRUCTION TO AVOID DAMAGE AND MUST TAKE ALL NECESSARY PRECAUTIONS IN EXCAVATING.
	HAND EXCAVATE AS DEEMED NECESSARY TO PROTECT SUBSURFACE UTILITIES. DAMAGE TO ANY EXISTING UTILITY RESULTING FROM THE CONTRACTOR'S OPERATIONS MUST BE IMMEDIATELY REPAIRED IN A MANNER AS APPROVED BY THE CONTRACTING OFFICER AT NO ADDITIONAL COST TO THE GOVERNMENT. IF THE CONTRACTING OFFICER DEEMS IT IS NECESSARY, THE CONTRACTING OFFICER CAN REQUIRE REPAIR OPERATIONS TO BE PERFORMED CONTINUOUSLY UNTIL WORKS ARE ACCEPTABLE TO THE CONTRACTING OFFICER AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
6.	UTILITY MANHOLE / VALVE COVERS, RIMS, GRATES, VENTS, AND OTHER COMPONENTS WHICH ARE NOT BEING REMOVED AND ARE WITHIN AREAS OF DISTURBANCE MUST BE RESET TO GRADE.
7.	CONCRETE THRUST BLOCKS MUST BE INSTALLED ON ALL WATER LINE BENDS, TEES, CROSSES, ELBOWS, VALVES, CAPS, ETC. IN ACCORDANCE WITH THE THRUST BLOCK DETAIL. RESTRAINED JOINTS MAY BE SUBSTITUTED IN LIEU OF THRUST BLOCKS. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF THE JOINT FITTINGS TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL.
8.	THE EXISTING WATER SYSTEM WILL BE OPERATIONAL DURING THE RENOVATION OF CULLUM HALL.
9.	NEW WATER MAIN SERVICE CONNECTIONS MUST BE DIP AND MUST BE INSTALLED WITH A MINIMUM OF 54" OF COVER FROM FINISHED GRADE TO TOP OF THE PIPE. DISINFECTION, HYDROSTATIC TESTING, AND BACTERIOLOGICAL TESTING MUST BE PERFORMED IN ACCORDANCE WITH UFC / AWWA / WATER COMPANY SPECIFICATIONS.
10.	THE LOCATION, ELEVATION, AND SIZE OF EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE. THE FOLLOWING MUST BE PERFORMED:
	 A. VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION. EXCAVATE TEST PITS AS REQUIRED; B. EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING STORM, SANITARY, GAS, STEAM SYSTEMS, POWER, COMMUNICATIONS OR WATER LINES TO PREVENT DAMAGE. INSTALL SUPPORTS AND BRACES AS REQUIRED. THE DESIGN AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, MUST BE SUBMITTED TO THE COR FOR REVIEW AND APPROVAL PRIOR TO EXCAVATION. C. IMMEDIATELY REPAIR ANY DAMAGE TO THE EXISTING UTILITIES RESULTING FROM CONSTRUCTION AT NO ADDITIONAL COST TO THE GOVERNMENT. D. MAINTAIN UTILITIES IN ACTIVE OPERATION AT ALL TIMES UNLESS THEY ARE TO BE ABANDONED OR REMOVED; E. NOTIFY AND OBTAIN APPROVALS FROM UTILITY COMPANY/WEST POINT DPW/CONTRACTING OFFICER, PRIOR TO PERFORMING WORK. F. UTILITIES THAT ARE TO BE ABANDONED/REMOVED MUST BE APPROVED BY THE CONTRACTING OFFICER. SERVICES TO ADJACENT FACILITIES MUST NOT BE INTERRUPTED.
11.	PRE-CAST CONCRETE STRUCTURES AND REINFORCING STEEL WITHIN PRE-CAST STRUCTURES MUST BE DESIGNED BY THE STRUCTURE MANUFACTURER. REINFORCING STEEL WITHIN POURED-IN-PLACE DRAINAGE STRUCTURES MUST BE DESIGNED BY A NYS LICENSED ENGINEER AND SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW.
12.	SHOP DRAWINGS FOR ALL STRUCTURES MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND SUBMITTED FOR REVIEW AND APPROVAL BY CONTRACTING OFFICER.
13.	SANITARY SEWER PIPE MUST BE SDR 35 PVC AND MUST BE TESTED FOR COMPLIANCE WITH ASTM STANDARDS FOR INFILTRATION / EXFILTRATION.
14.	DEWATER TRENCHES AS REQUIRED FOR INSTALLATION OF THE IMPROVEMENTS. THE CONTRACTOR MUST MAINTAIN THE WATER TABLE 2-FEET BELOW THE BOTTOM OF TRENCH.
15.	ALL STORMWATER INLETS MUST BE EQUIPPED WITH A BICYCLE SAFE ECO GRATE AND CAST WITH "NO DUMPING - DRAINS TO RIVER OR WATERWAY".
16.	CURB STORMWATER INLETS MUST HAVE A 6" FACE AND TYPE N CURB BOX.
17.	EXISTING STORM PIPING TO REMAIN, MUST BE CLEANED TO THE NEAREST INLET / MANHOLE AND/OR DISCHARGE POINT.
18.	ELECTRICAL, FIBER OPTIC, AND COMMUNICATION CONDUIT UNDER AND WITHIN 20' OF VEHICLE TRAVEL WAYS MUST BE ENCASED IN CONCRETE.
19.	REFER TO ELECTRIC AND COMMUNICATION PLANS FOR NUMBER AND ARRANGEMENT OF ELECTRICAL AND COMMUNICATION CONDUIT WITHIN DUCT BANKS.
20.	PROVIDE TEMPORARY ELECTRIC POWER AS NEEDED FOR ALL CONSTRUCTION OPERATIONS UNTIL ELECTRIC IS EXTENDED TO THE SITE AND SUITABLE FOR USE. REFER TO ELECTRIC PLANS.
21.	ALL OPEN EXCAVATIONS WITHIN VEHICULAR TRAVEL AND PARKING AREAS MUST BE COVERED WITH A STEEL PLATE, RATED FOR HS-25 LOADING.
22.	NOTIFY THE CONTRACTING OFFICER, WEST POINT DPW, AND WEST POINT MWR, 14-DAYS PRIOR TO ANY TEMPORARY CLOSURES.
23.	THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY CONFLICTS WITH UNEXPECTED UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION.
24.	THE CONTRACTOR MUST SUBMIT A DEWATERING PLAN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, TO THE CONTRACTING OFFICER 14-DAYS PRIOR TO ANY DEWATERING OPERATIONS.
25.	ALL UTILITY BEDDING MUST BE WRAPPED IN GEOTEXTILE FABRIC.
26.	AMERICAN WATER (AW) IS THE OWNER AND OPERATOR OF ALL SANITARY SEWER AND DOMESTIC/FIRE WATER MAINS AT WEST POINT.
27.	ANY SEWER MAIN AND/OR DOMESTIC.FIRE WATER MAIN REPLACEMENT OR MODIFICATION MUST BE COMPLETED BY AW UNLESS DIRECTED OTHERWISE.
28.	THE SEWER MAIN WITHIN THE UTILITY TUNNEL MAY ONLY BE MODIFIED AND/OR CONSTRUCTED UPON BY AW.
29.	THE CONTRACTOR MUST NOTIFY AND COORDINATE WITH AMERICAN WATER PRIOR TO THE SHUT-OFF OF ANY WATER MAIN OR BUILDING SERVICE.
30.	ALL NEW BELOW-GRADE STRUCTURES MUST BE DESIGNED TO SUPPORT HS-25 LOADING. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS, SIGNED AND SEALED BE A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF ALL STRUCTURES.
31.	PRIOR TO EXCAVATION, DISCONNECTION, CUTTING, OR REMOVAL OF ANY UTILITY SERVICE, COORDINATE WITH THE CONTRACTING OFFICER, WEST POINT DPW, AND THE

PRIVATE UTILITY PURVEYOR TO ENSURE UNINTERRUPTED SERVICE TO SURROUNDING FACILITIES. SUBMIT TEMPORARY SERVICE PLANS FOR APPROVAL PRIOR TO ANY

UTILITY WORK.

LEGEND

	EXISTING	PROPOSED
CURB		
EDGE OF PAVEMENT		
TREE LINE	·	·
FENCE	—	—x—x—x—
GUIDE RAIL		
METAL RAIL	-00	-00
UNDERGROUND COMMUNICATION LINE	— — COMM — — —	———COMM———
UNDERGROUND ELECTRIC (PRIMARY)	— — E — — —	— — E — — —
UNDERGROUND ELECTRIC (SECONDARY)		— — ES — — —
STORM LINE	SD	sp
SANITARY LINE	SAN	
WATER LINE	w	—— w —— w —
GAS LINE		
STEAM LINE	——————————————————————————————————————	
CHILLED WATER SUPPLY	—— CHWS —— CHWS ——	111 0
CHILLED WATER RETURN	—— CHWS —— CHWR ——	
UNKNOWN MANHOLE	[M]	
SANITARY MANHOLE	M S	©
STORM MANHOLE	©	0
ELECTRIC MANHOLE/HANDHOLE	(E)	€
TELE. PED.	•CP	
WATER VALVE	\boxtimes	W
JNKNOWN JUNCTION BOX		
CATCH BASIN	CB	
CLEANOUT		⊚
ROUND CATCH BASIN	©B	
COMMUNICATION MANHOLE	©	
OIL BORING LOCATION	B-4 ⊗	
GUY WIRE	—)	
POST/ BOLLARD		
ROCK/BOULDER		
SHRUB CONIFEROUS TREE	*	
DECIDUOUS TREE	Agen Agen Agen Agen Agen Agen Agen Agen	
REE STUMP		
SIGN	——————————————————————————————————————	
STEAM MANHOLE		_
ELECTRICAL JUNCTION BOX		
IGHT POLE	o—∞	
INKNOWN VENT	\Diamond	
GAS VALVE		
FIRE HYDRANT	<u>•</u>	
CONCRETE (POURED IN PLACE)	Α Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	
BOLLARD		•
NLET PROTECTION		
IMIT OF DISTURBANCE		
IAND EXCAVATION/EXCAVATE VITH CAUTION TO FACE OF		

LIST OF ABBREVIATIONS

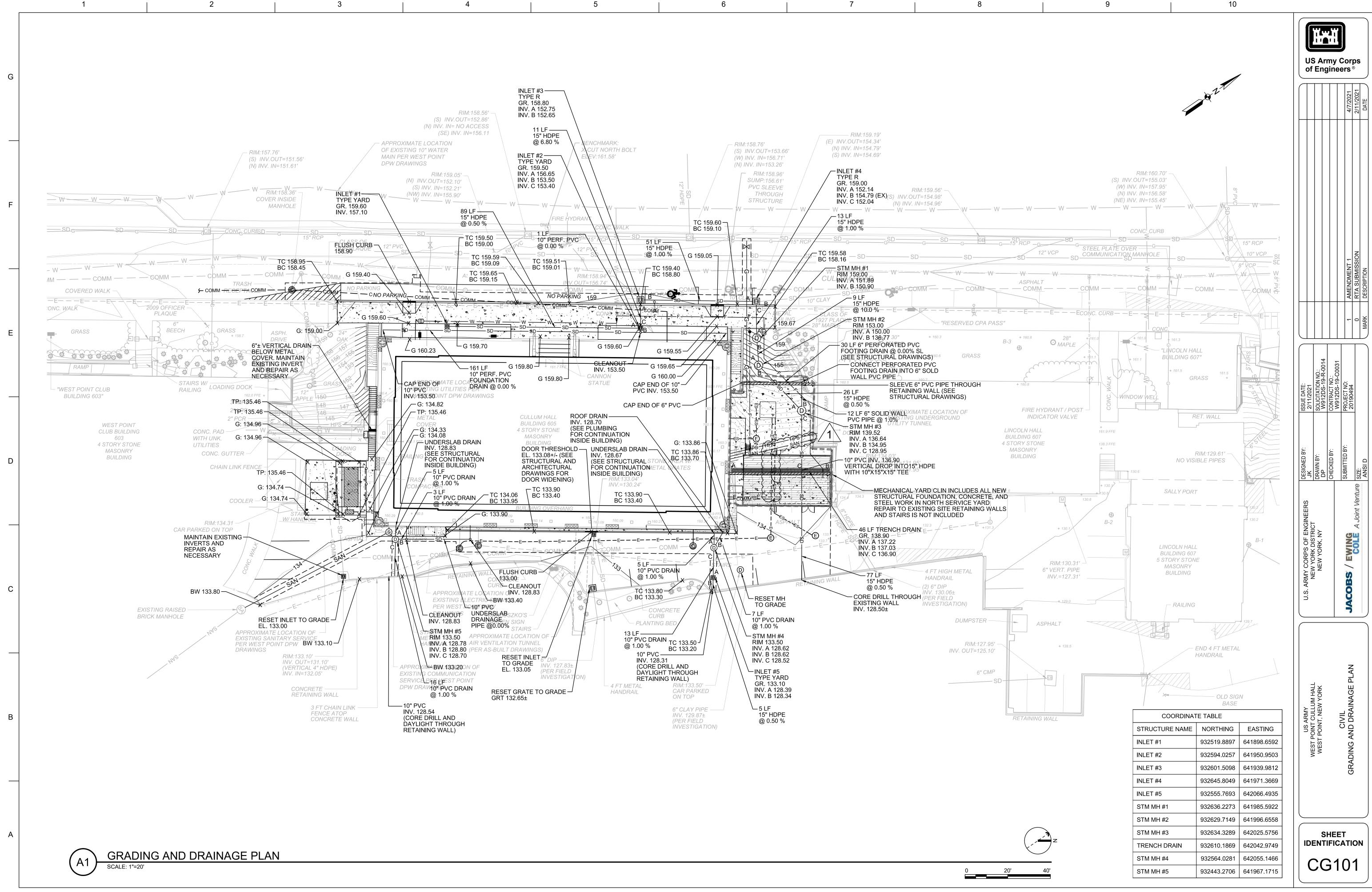
ABA	ARCHITECTURAL BARRIERS ACT
ABC	AGGREGATE BASE COURSE
AC	ACRES
ADA	AMERICAN WITH DISABILITIES ACT
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND
	MATERIALS
AW	AMERICAN WATER
ВС	BOTTOM OF CURB
BIT.	BITUMINOUS
BLDG	BUILDING
СВ	CATCH BASIN
CLF	CHAIN LINK FENCE
СО	CLEAN OUT
COMM	COMMUNICATION
CONC	CONCRETE
CORS	CONTINUOUSLY OPERATING REFERENCE
O\A/	STATION
CW	CHILLED WATER
DC	DEPRESSED CURB
DGA	DENSE GRADED AGGREGATE
DIA.	DIAMETER
DIP	DUCTILE IRON PIPE
DIM.	DIMENSION
DMH	DRAINAGE MANHOLE
DPW	DIRECTORATE OF PUBLIC WORKS
DWG	DRAWING
EA	EACH
ELEC.	ELECTRIC
EL./ELEV.	ELEVATION
EM	ENGINEERS MANUAL
EOP	EDGE OF PAVEMENT
ETC	ET CETERA
EX./EXIST.	EXISTING
FF	FINISHED FLOOR
GR	GRATE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
IN.	INCH
INV	INVERT
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
	MANUAL ON UNIFORM TRAFFIC CONTRO
MUTCD	DEVICES
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NYSDEC	NEW YORK STATE DEPARTMENT OF
	ENVIRONMENTAL CONSERVATION
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PERF.	PERFORATED
PIV	POST INDICATOR VALVE
PROP.	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC	POUNDS PER SQUARE INCH POLYVINYL CHLORIDE
R	RADIUS
RCP	1
	REINFORCED CONCRETE PIPE
REIN.	REINFORCED
REQ'D	REQUIRED
SAN	SANITARY STANDARD DIMENSION BATIO
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FEET
SMH	SANITARY MANHOLE
STA.	STATION
TBR	TO BE REMOVED
TC	TOP OF CURB
TP	TOP OF CONCRETE PAD
TW	TOP OF WALL
TYP.	TYPICAL
UFC	UNIFIED FACILITIES CRITERIA
USMA	UNITED STATES MILITARY ACADEMY
W/	WITH

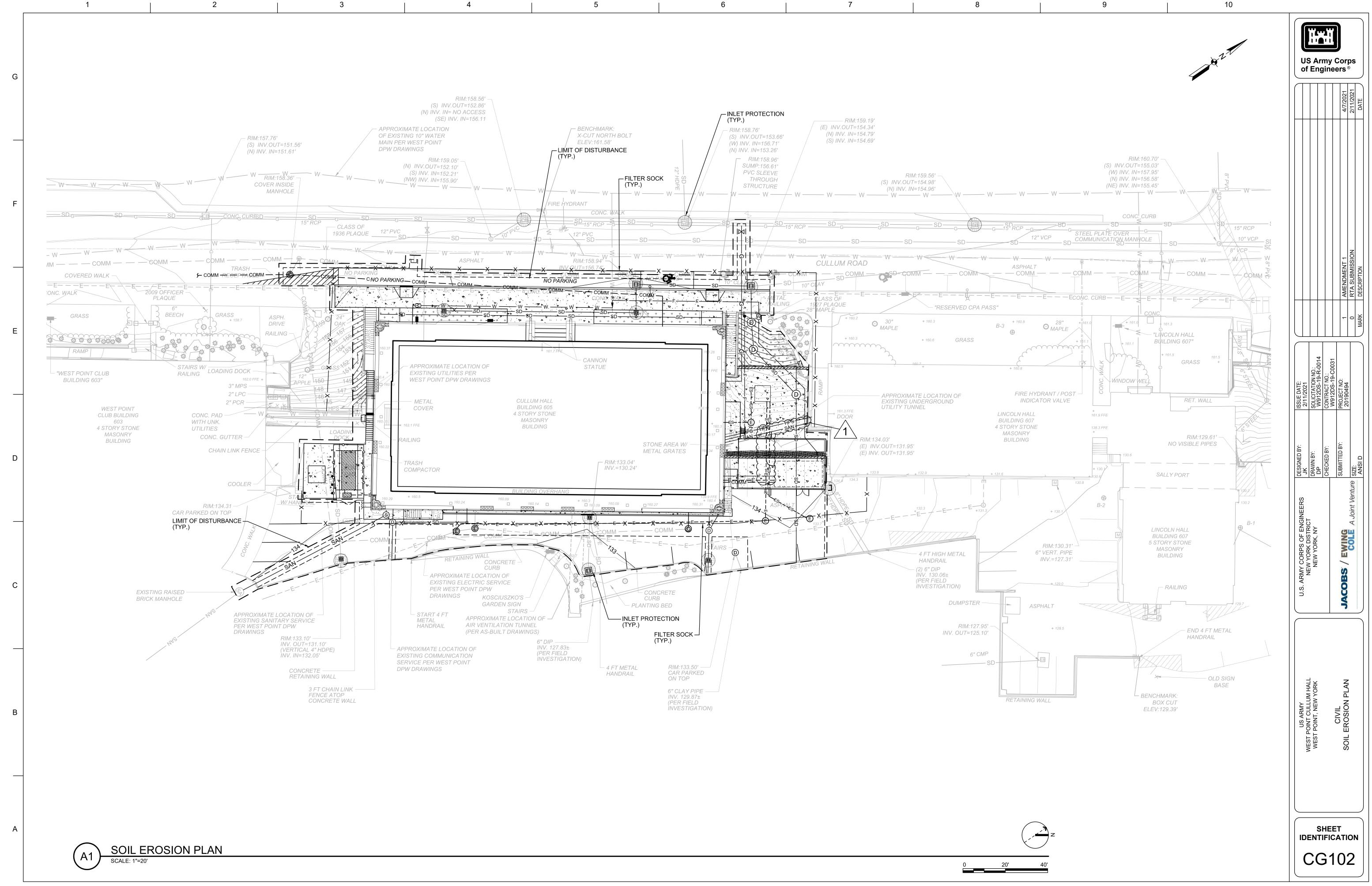


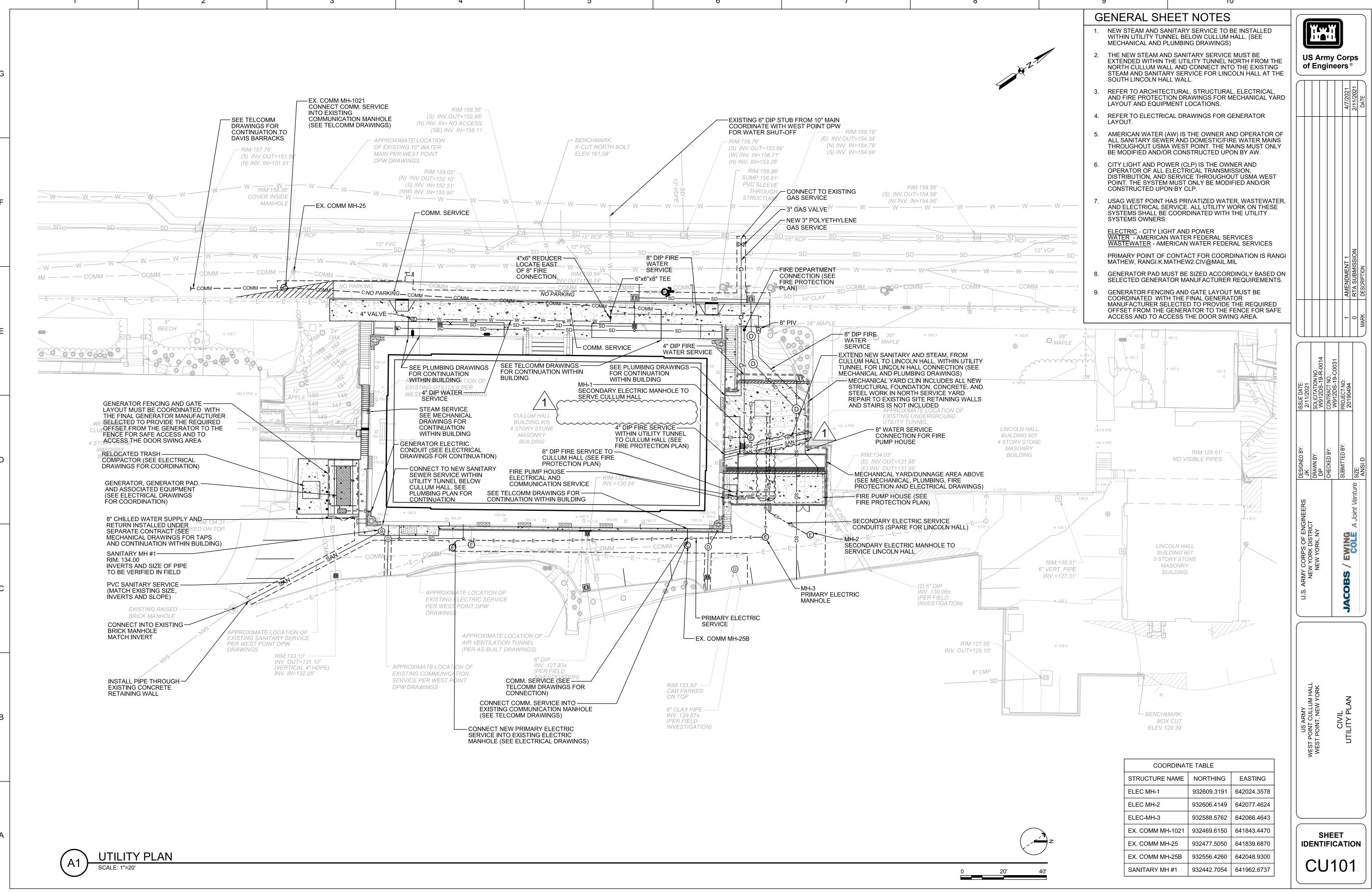
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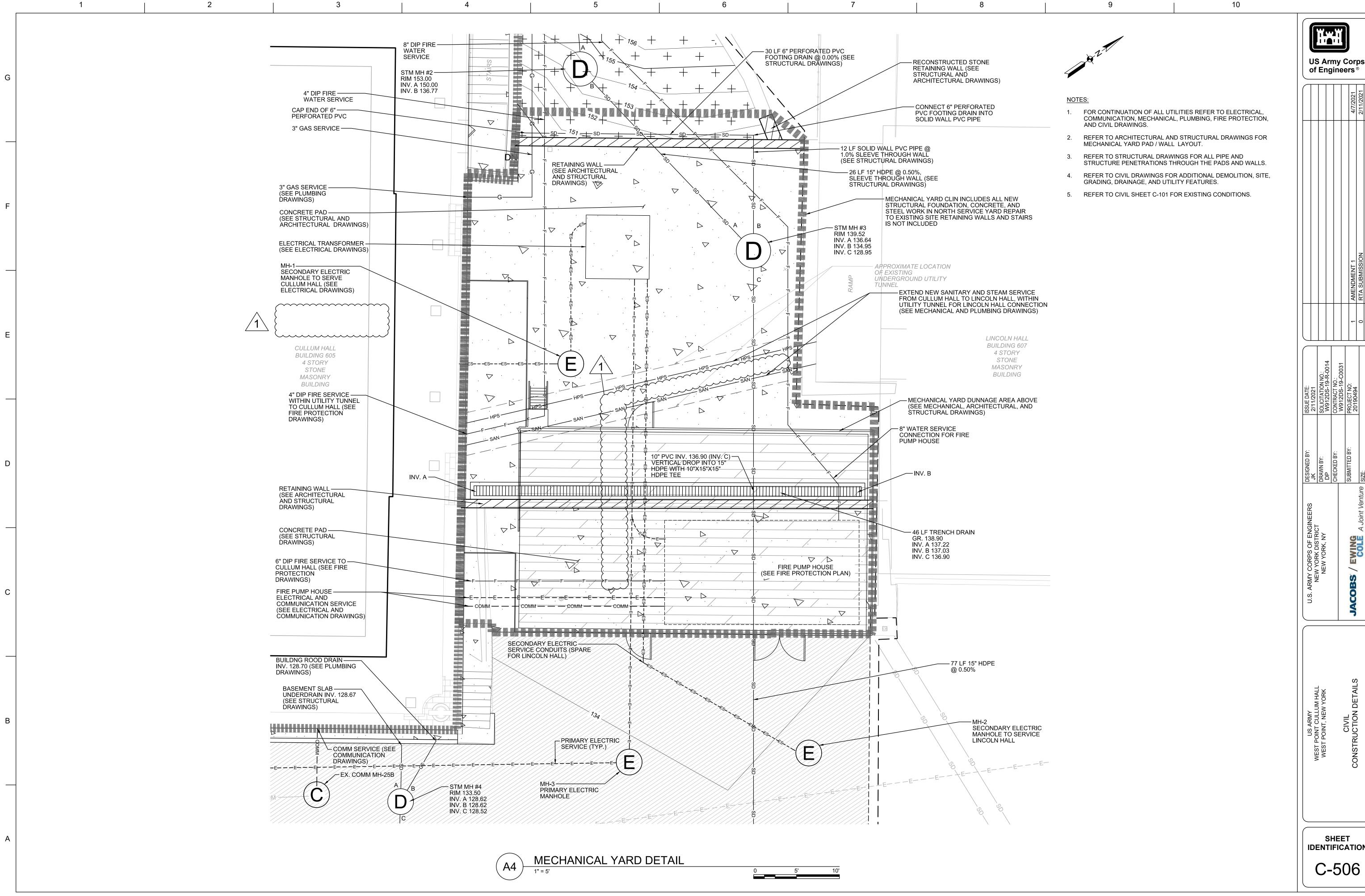
SHEET IDENTIFICATION











ANCHOR BOLT AMERICAN CONCRETE INSTITUTE ADJM^{*} ADJUSTMENT ADDITIONAL **ADDTL** ADH. ADHESIVE **ANCH** ANCHOR ARCH. **ARCHITECTURA** AMERICAN SOCIETY FOR ASTM TESTING AND MATERIALS BLDG. BUILDING BLKG. BLOCKING BM BEAM BOT. BOTTOM **BASEPLATE** BPL. BRCG. BRACING BRG. **BEARING** BRK. BRICK BRKT. **BRACKET** B.S. BOTH SIDE (USED W/ REINF) B.S. BRICK SHELF BSMT **BASEMENT** BTWN. BETWEEN B.W. **BOTH WAYS COMPONENTS & CLADDING** C&C CANT **CANTILEVER CONCRETE BEAM COLD FORMED METAL FRAMING** CFMF C.J. CONTROL JOINT **CENTERLINE** CL. CLR. CMU CONCRETE MASONRY UNIT COL. COLUMN COMP COMPRESSIBLE CONC CONCRETE CONN. CONNECTION CONS CONSTRUCTION CONT. CONTINUOUS CONTR CONTRACTOR COORD. COORDINATE COR CONTRACTING OFFICER'S REPRESENTATIVE CRIPPLED DBL. DOUBLE DET. DETAIL DEV. DEVELOP, DEVELOPMENT DIAG. DIAGONAL DIST. DISTANCE DISCONT DISCONTINUOUS DK. DECK D.L. DEAD LOAD DN. DOWN DWG. DRAWING DWL. DOWEL EA. **EACH** EACH END E.F. **EACH FACE ELEVATION** ELECTRICAL ELEC. ELEV. ELEVATOR EMB. EMBED, EMBEDMENT E.O.R. ENGINEER OF RECORD EQ. EQUAL ETC. ETCETERA

EACH WAY

EXIST., (E) EXISTING

EAST-WEST

EXPANSION

FOUNDATION

FINISH

FLANGE

FLOOR

FRAMING

FAR SIDE

FOOTING

GALVANIZED

GRADE BEAM

GRANULAR

HORIZONTAL

HIGH POINT

INSIDE FACE

INVERT ELEVATION

GENERAL CONTRACTOR

GAGE

HOOK

EXPANSION JOINT

FACTORED

E.W.

E-W

EXP. JT.

FCTD.

FDN.

FIN.

FLG.

FLR.

F.S.

FTG.

GA.

GB

G.C.

HK.

H.P.

I.E.

I.F.

GRAN.

HORIZ.

GALV.

FRMG

INCLUSIVE INCL. INFO. INFORMATION INS. INSULATION JST. JOIST JOINT KIPS (1000 LB.) KSF KSI L.L. LIVE LOAD LLH LLV LSH LSV LOW POINT

KIPS PER SQUARE FOOT KIPS PER SQUARE INCH LONG LEG HORIZONTAL LONG LEG VERTICAL LONG SIDE HORIZONTAL LONG SIDE VERTICAL LIGHT WEIGHT MAS. MASONRY MAX. MAXIMUM MECH. **MECHANICAL** MTL. METAL MFR. MANUFACTURER MIN. MINIMUM N.A. **NEUTRAL AXIS** NO. NUMBER N.S. NEAR SIDE

N-S NORTH-SOUTH NORMAL WEIGHT O.C. ON CENTER O.F. OUTSIDE FACE OPNG. OPENING OPP.HD. OPPOSITE HAND ORIENT ORIENTATION PC. PRECAST P.C. PRECAST CONCRETE PCF POUNDS PER CUBIC FOOT PED. PEDESTAL PENET PENETRATION PERIM. PERIMETER PLATE **PLUMB** PLUMBING PW. PLYWOOD PNL. PANEL PREM. PREMOLDED

PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH REINF. REINFORCING REQD. REQUIRED RET. RETAINING REV. REVISION ROOF R.O. ROUGH OPENING SCHED. SCHEDULE SECT. SECTION SIM SIMILAR SLOTTED SPAN. SPANDREL SPEC. SPECIFICATIONS STAGG. STAGGERED STD. STANDARD STIFF. STIFFENER STL. STEEL STRU. STRUCTURAL SUPP. SUPPORT T.&B. TOP AND BOTTOM

TEMPORARY

THICK, THICKNESS

TOP OF CONCRETE

TOL. TOLERANCE T.O.P. TOP OF PEDESTAL T.O.S. TOP OF STEEL T.O.W. TOP OF WALL TYP. TYPICAL U.N.O. UNLESS NOTED OTHERWISE VERTICAL (USED W/ REINF.) VERT. VERTICAL VERIFY IN FIELD V.I.F. WD. WOOD **WORK POINT** WATER STOP

W.P. W.S. WWF WELDED WIRE FABRIC HORIZONTAL (USED W/ REINF.)

TEMP.

THK.

T.O.C.

GENERAL NOTES

GENERAL NOTES

- 1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE BEFORE ORDERING ANY MATERIALS AND BEGINNING ANY WORK, FIELD SURVEY AND ESTABLISH THE EXISTING BUILDING DIMENSIONS WHERE NEW CONSTRUCTION ABUTS EXISTING BUILDINGS. THIS FIELD SURVEY MUST INCLUDE, BUT MUST NOT BE LIMITED TO THE FOLLOWING: DIMENSIONS OF EXISTING BUILDING FACE INCLUDING ALL FENESTRATIONS, PROJECTIONS, ETC, PLUMBNESS OF WALLS, FLOOR AND ROOF ELEVATIONS, AND ALI OTHER PERTINENT DIMENSIONS. SUBMIT THE SURVEY TO THE COR FOR INFORMATION ONLY AND MAKE THE SURVEY AVAILABLE TO SUBCONTRACTORS.
- 2. THE CONTRACTOR MUST BE RESPONSIBLE FOR ALL WORK AND COORDINATION INVOLVED TO PROVIDE ALL OPENINGS SHOWN ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. PROVIDE FRAMING AND ALL CONNECTIONS AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS. (NOTE - NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL
- 3. ALL CONTRACTORS MUST BE RESPONSIBLE TO ENSURE PROPER STORAGE OF MATERIAL IS MAINTAINED SO AS NOT TO CAUSE OVERLOADING OF THE EXISTING OR NEW STRUCTURE DURING PERFORMANCE OF THIS WORK. GENERAL CONTRACTOR TO COORDINATE.
- 4. ALL CONTRACTORS MUST VERIFY AND/OR ESTABLISH ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE BEFORE ORDERING ANY MATERIAL AND COMMENCEMENT OF ANY WORK.
- 5. IF THE EXISTING CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, NOTIFY THE COR IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH A PROPOSED MODIFICATION TO THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. THE FINAL INSTALLATION MUST BE DONE AS REQUIRED BY THE ARCHITECT AS DIRECTED BY THE COR.
- 6. WHERE ALTERATIONS INVOLVE THE EXISTING SUPPORTING STRUCTURE, PROVIDE ALL SHORING, BRACING, GUYS AND PROTECTION REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY OF THE
- 7. COORDINATE ALL RELATED TRADE ACTIVITY REGARDING SHUT DOWNS, RE-ROUTING, TEMPORARY INSTALLATION, ETC. NECESSARY FOR THIS INSTALLATION WITH THE COR.
- 8. ESTABLISH SPECIFIC MEANS AND METHODS FOR INSTALLATION AND COORDINATE THE WORK FOR ALL CONTRACTORS AND COMPLY WITH THE GOVERNMENT'S GENERAL REQUIREMENTS.
- 9. COORDINATE THE LOCATION AND DIMENSIONS OF ELEVATOR PITS, WALLS, POSTS, HOISTWAY AND OPENINGS WITH ELEVATOR MANUFACTURER.
- 10. COORDINATE WITH EQUIPMENT MANUFACTURERS FOR EXACT SIZE, LOCATION, ETC. OF PITS, CAST-IN ITEMS, WALLS, ETC. BEFORE LAYOUT, ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK.

FOUNDATION NOTES

- FOUNDATIONS LOCATED OUTSIDE THE FOOTPRINT OF THE BUILDING MUST BEAR ON SUBGRADE HAVING A MINIMUM ALLOWABLE BEARING PRESSURE OF 3,000 PSF. FOUNDATIONS LOCATED WITHIN THE FOOTPRINT OF THE BUILDING MUST BEAR ON BEDROCK HAVING A MINIMUM ALLOWABLE BEARING PRESSURE OF 10,000 PSF. BEARING CAPACITY MUST BE VERIFIED IN THE FIELD BY A LICENSED GEOTECHNICAL INSPECTOR HIRED BY THE CONTRACTOR. ROCK RECEIVING FOUNDATIONS MUST BE SOUND, FREE OF SHATTERED OR SPLINTERED FRAGMENTS, AND APPROXIMATELY LEVEL. CONCRETE-ROCK SLIDING COEFFICIENT OF 0.5 SHALL BE USED.
- BASED ON EXISTING BUILDING INFORMATION AND GEOTECHNICAL INVESTIGATION. IT IS ASSUMED THAT EXISTING BUILDING FOUNDATIONS BEAR ON BEDROCK. CONTRACTOR MUST FIELD VERIFY THIS PRESUMPTION. IF ROCK IS NOT ENCOUNTERED WHEN EXCAVATIONS REACH THE BOTTOM ELEVATION OF EXISTING ADJACENT FOOTINGS, THE EXISTING FOOTINGS MUST BE REINFORCED BY AN UNDERPINNING METHOD, TO A DEPTH DETERMINED BY THE GEOTECHNICAL ENGINEER, NECESSARY TO PROVIDE THE DESIGN BEARING CAPACITY OF 10,000 PSF. IN THE EVENT THIS CONDITION IS FOUND, THE CONTRACTOR SHALL FOLLOW THE CONTRACT REQUIREMENTS FOR SEEKING DIRECTION AND RESOLUTION OF THIS CONDITION AND ANY ASSOCIATED REMEDIES. CONTRACTOR IS NOT PERMITTED TO EXCAVATE LOWER THAN EXISTING FOOTINGS OR PROCEEDING FURTHER WITHOUT APPROVAL OF CONTRACTING OFFICER.
- 3. ALL COLUMN FOOTINGS MUST BE CENTERED ON THE COLUMN CENTERLINES, UNLESS OTHERWISE
- PROVIDE DEWATERING DURING EARTHWORK OPERATIONS INCLUDING PREVENTIVE MEASURES RELATED TO EXCAVATION STABILITY. DEWATER TO PREVENT SLOUGHING OF EXCAVATION SLOPES ORDERLY PROGRESS OF CONSTRUCTION. CONTROL MEASURES MUST BE TAKEN TO MAINTAIN THE INTEGRITY OF THE IN SITU MATERIAL. THE DEWATERING SYSTEM MUST BE CONTINUOUSLY OPERATED UNTIL CONSTRUCTION WORK BELOW EXISTING WATER LEVEL IS COMPLETE. CONTRACTOR TO SUBMIT WEEKLY PERFORMANCE RECORDS. CARE MUST BE TAKEN TO IMMEDIATELY CONTROL ANY WATER SEEPAGE TO PREVENT SATURATION OF THE SUBGRADE.
- 5. BOTTOM OF FOOTING GIVEN IN THE FOUNDATION PLAN MARKED THUS (...) ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD IN ACCORDANCE WITH NOTES ABOVE. IT IS ASSUMED THAT EXISTING BUILDING FOOTINGS BEAR ON BEDROCK. IF EXCAVATION OF A NEW FOOTING REACHES THE BOTTOM OF AN ADJACENT EXISTING FOOTING AND NO ROCK IS ENCOUNTERED, STOP EXCAVATING AND NOTIFY THE COR IMMEDIATELY.
- ALL EXISTING UNDERGROUND UTILITIES IN THE AREA OF THE NEW CONSTRUCTION MUST BE RELOCATED UNLESS OTHERWISE NOTED ON THE DRAWINGS BEFORE ANY NEW FOUNDATION WORK IS STARTED. PROVIDE PROTECTION FOR NEW AND EXISTING UTILITIES, ACCESS HOLES, CATCH BASINS, ETC. USING SHEETING AND SHORING DESIGNED BY THE CONTRACTOR'S DELEGATED REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- COORDINATE ALL FOUNDATION WORK WITH ALL UNDERGROUND UTILITIES. DO NOT PLACE UTILITIES BELOW SPREAD FOOTINGS UNLESS APPROVED BY THE ARCHITECT, IF ANY SUCH CONDITION OCCURS, THE CONTRACTOR MUST NOTIFY THE COR AND DROP THE BOTTOM OF FOOTING.
- 8. COORDINATE ALL FOUNDATION WORK WITH ALL UNDERGROUND UTILITIES. EXTREME CARE MUST BE TAKEN DURING EXCAVATION AND CONSTRUCTION OF NEW FOUNDATION WORK SO AS NOT TO DISTURB THE EXISTING CONSTRUCTION AND UTILITIES.
- BACKFILL AGAINST WALLS MUST FOLLOW THE CRITERIA NOTED. AS A MINIMUM, WALLS MUST HAVE REACHED THEIR 28 DAY DESIGN STRENGTH OR BE IN PLACE 14 DAYS, WHICHEVER IS LONGER. EQUIPMENT USED TO COMPACT THE BACKFILL WILL BE SUCH AS TO LIMIT PRESSURES ON THE WALLS TO THE DESIGN VALUES AND TO BE REVIEWED AND ACCEPTED BY THE GEOTECHNICAL ENGINEER. BACKFILL EVENLY ON BOTH SIDES OF FOUNDATION WALLS FOR GREATEST HEIGHT
- 10. PROVIDE STANDARD STEEL PIPE SLEEVES FOR PIPES PASSING THROUGH CONCRETE WALLS AND NEATLY CORED HOLES A MINIMUM OF ONE PIPE SIZE LARGER THAN PIPE THROUGH EXISTING CONCRETE WALLS WHERE SHOWN ON THE DRAWINGS. COORDINATE CORED HOLES WITH SEALANT, ETC., REQUIREMENTS WITH RELATED SPECIFICATIONS. SEE TYPICAL DETAIL ON DRAWING S-501.
- 11. WHERE EXCAVATION FOR UTILITY TRENCHES IS LOWER THAN AND CLOSER THAN A 1.5H:1V SLOPE TO THE BOTTOM OF A NEW OR EXISTING COLUMN OR WALL FOOTING, BACKFILL THE EXCAVATION WITH LEAN MIX CONCRETE. TOP OF FILL TO BE ON A 1.5H:1V SLOPE FROM BOTTOM OF ADJACENT
- 12. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON CONSULTANTS -GEOCONCEPTS ENGINEERING, INC. DATED JUNE 16, 2020 (& OCTOBER 26, 2020 ADDENDUM).

TERRACON CONSULTANTS-GEOCONCEPTS ENGINEERING, INC. 19955 HIGHLAND VISTA DRIVE

SUITE 170 ASHBURN, VA 20147

A COPY OF THE SOILS AND FOUNDATION INVESTIGATION ANALYSIS REPORT IS INCLUDED IN THE SPECIFICATION FOR INFORMATION ONLY.

13. FOR ADDITIONAL REQUIREMENTS SEE TYPICAL DETAILS AND THE SPECIFICATIONS.

CONCRETE NOTES

1. CONCRETE MUST HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

INTERIOR FOUNDATIONS, PIERS AND PEDESTALS	4000 PS
EXTERIOR SLAB ON GRADE	4500 PS
INTERIOR SLAB ON GRADE (NOTED S1 IN PLAN)	4000 PS
INTERIOR SLAB ON GRADE (NOTED S2 IN PLAN)	3000 PS
LIGHTWEIGHT SLAB ON METAL DECK	3000 PS
NORMAL WEIGHT SLAB ON METAL DECK	3500 PS
EXTERIOR EQUIPMENT PADS	4500 PS
EXTERIOR CONCRETE AND FOUNDATIONS	4500 PS
TERRACE LIGHTWEIGHT SLAB ON METAL DECK	4500 PS
EXTERIOR LIGHTWEIGHT TOPPING SLAB	4500 PS
ALL CONCRETE EXPOSED TO FREEZE-THAW CONDITIONS	4500 PS
ALL OTHER CONCRETE	4000 PS

- 2. REINFORCING TO BE ASTM A615 GRADE 60. ALL MESH SHALL BE ASTM A1064. ALL REINFORCING STEEL PLACED IN CONCRETE LOCATED WITHIN OR BELOW THE WATER TABLE MUST BE EPOXY COATED.
- PROVIDE SYNTHETIC POLYPROPYLENE FIBERS (FIBERMESH) IN ALL CONCRETE SLABS ON GRADE AND ELEVATED CONCRETE SLABS. FIBERS WILL CONFORM TO ASTM C1116, TYPE III AND ICC ES AC32 SECTIONS 3.1.1 AND 3.1.2.
- 4. ALL CONCRETE WORK MUST BE CURED FOR A MINIMUM OF 7 DAYS IN ACCORDANCE WITH ACI
- 5. CONTRACTOR MUST VERIFY THE DIMENSIONS OF AND INSTALL IN THE FORMS ALL SLOTS, SLEEVES, ANCHOR BOLTS, MASONRY ANCHORS, POCKETS, ETC. AS REQUIRED FOR OTHER
- 6. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR CONCRETE EQUIPMENT PADS AND FOUNDATIONS REQUIRED.
- ALL SHORING AND/OR RESHORING FOR SUPPORTED CONCRETE SLABS MUST BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED ITS 28 DAY STRENGTH AND A MINIMUM OF 14
- SEE SECTIONS AND DETAILS FOR ALL EQUIPMENT OPENINGS, DEPRESSIONS, ETC. CONTRACTOR MUST COORDINATE EQUIPMENT REQUIREMENTS WITH ARCHITECTURAL MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
- 9. FOR ADDITIONAL REQUIREMENTS, SEE TYPICAL DETAILS AND THE SPECIFICATIONS

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL MUST CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

WIDE FLANGE AND WT SHAPES	ASTM A992/A992M GRADE 5
BASE PLATES, COLUMN CAPS, MOMENT PLATES,	
GUSSET PLATES, WEB PLATES, AND SPLICE PLATES	ASTM A572/A572M GRADE 5
HOLLOW STRUCTURAL STEEL MEMBERS	ASTM A500/A500M GRADE I
STEEL PIPES	ASTM A53/A53M GRADE B
ANGLES, CHANNELS, AND PLATES	ASTM A36/A36M

- VERIFY IN THE FIELD, BY A SURVEY, ALL EXISTING CONDITIONS CONNECTED WITH STRUCTURAL STEEL WORK INCLUDING ANCHOR BOLT LOCATIONS PRIOR TO ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK.
- 3. PROVIDE SATISFACTORY BRACING OF THE EXISTING AND NEW STEEL FRAME UNTIL ALL NEW FRAMING AND THE METAL DECK IS ERECTED AND FINAL CONNECTIONS ARE COMPLETE AND THE CONCRETE SLABS ON METAL DECK ARE PLACED.
- 4. ALL STRUCTURAL STEEL DIRECTLY EXPOSED TO THE WEATHER MUST BE HOT DIPPED GALVANIZED AND TOUCHED UP WITH TWO COATS OF HIGH SOLIDS ZINC RICH PRIMER WHERE ABRADED OR AFTER WELDING (SEE SPECIFICATIONS).
- 5. MAIN SUPPORT MEMBERS FOR THE METAL DECK ARE SHOWN ON THE CONTRACT DRAWINGS PROVIDE ADDITIONAL SECONDARY FRAMING AS REQUIRED AT NO ADDITIONAL COST TO THE GOVERNMENT.
- WHERE WELDING STAINLESS STEEL COMPONENTS, CONTRACTOR MUST COMPLY WITH REQUIREMENTS OF AWS D1.6. WELDER QUALIFICATIONS FOR STAINLESS STEEL ARE REQUIRED.
- BEAM TO BEAM AND/OR BEAM TO COLUMN CONNECTIONS MARKED Mc MUST BE DETAILED TO DEVELOP FULL MOMENT CAPACITY AT THE CONNECTION IN ADDITION TO STANDARD SHEAR CONNECTION. THESE MOMENT CONNECTIONS ARE TO BE MADE BY FULL PENETRATION WELDS OF BOTH BEAM FLANGES. COORDINATE THESE DETAILS WITH OTHER FRAMING ELEMENTS AS REQUIRED.
- 7. SEQUENCE OF ERECTION FOR STRUCTURAL STEEL TO BE COORDINATED AS REQUIRED FOR AREAS SUPPORTED BY CANTILEVERS. ALL MOMENT CONNECTIONS AND/OR OTHER CONNECTIONS FOR CANTILEVERED FRAMING MUST HAVE TEMPORARY BRACING AND SUPPORT OF CANTILEVER FRAMING UNTIL ALL FINAL CONNECTIONS ARE COMPLETED AND INSPECTED BY THE TESTING AND INSPECTION AGENCY, AND THE RESULTS ACCEPTED PRIOR TO ERECTING FRAMING SUPPORTED BY THE CANTILEVER ENDS.
- 8. ANY FIELD WELDING TO ANY EXISTING THIN MEMBER MUST BE PERFORMED WITH EXTREME CARE SO AS TO AVOID EXCESSIVE DAMAGE TO THE BASE METAL.
- 9. EQUALLY SPACE BEAMS BETWEEN COLUMNS/GIRDERS UNLESS OTHERWISE NOTED.
- 10. FOR ADDITIONAL REQUIREMENTS, SEE TYPICAL DETAILS AND THE SPECIFICATIONS.

METAL DECK NOTES

- METAL DECK MUST CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI).
- 2. COMPOSITE METAL FLOOR DECK SUPPORTING LIGHT WEIGHT CONCRETE SLAB MUST BE CONTINUOUS OVER A MINIMUM OF TWO OR MORE SPANS UNLESS INDICATED OTHERWISE
- 3. FOR ADDITIONAL INFORMATION SEE THE SPECIFICATIONS.

STRUCTURAL DRAWING INDEX

		100% SET 12/22/2020	RTA SET 02/11/2021	AMENDMENT 04/07/2021	
S-001	STRUCTURAL NOTES AND INDEX SHEET	Х	Х	Х	T
S-002	STRUCTURAL NOTES	Х	Х		
S-003	WIND AND LIVE LOAD DIAGRAMS	Х	Х		
SD-100	LEVEL B3 / FOUNDATION DEMOLITION PLAN	X	X	Х	
SD-101	LEVEL B2 STRUCTURAL DEMOLITION PLAN	Х	Х		
SD-102	LEVEL B1 STRUCTURAL DEMOLITION PLAN	Х	Х		Γ
SD-110	LEVEL 1 STRUCTURAL DEMOLITION PLAN	Х	Х		T
SD-120	LEVEL 2 STRUCTURAL DEMOLITION PLAN	Х	Х		Ī
SD-130	ATTIC LEVEL STRUCTURAL DEMOLITION PLAN	Х	Х		
S-100	LEVEL B3 + B2 ARCHIVE / FOUNDATION PLAN	Х	Х		T
S-100.1	UNDERSLAB DRAINAGE PLAN	Х	Х		T
S-101	LEVEL B2 FLOOR FRAMING PLAN	Х	Х		Ī
S-102	LEVEL B1 FLOOR FRAMING PLAN	Х	Х		Ī
S-110	LEVEL 1 FLOOR FRAMING PLAN	Х	Х		T
S-120	LEVEL 2 FLOOR AND STAGE FRAMING PLAN	Х	Х		T
S-130	ATTIC LEVEL FRAMING PLANS	Х	Х	Х	T
S-140	ROOF FRAMING PLAN AND ADD ALT NO. 1 ROOF REPLACEMENT	Х	Х		
S-301	SECTIONS	X	Х		Ť
S-302	SECTIONS	Х	Х		Ī
S-303	SECTIONS	Х	Х		T
S-304	SECTIONS	Х	Х		T
S-305	SECTIONS	Х	Х		T
S-306	SECTIONS	Х	Х		Ī
S-307	SECTIONS	Х	Х		Γ
S-401	BEARING WALL ELEVATIONS	Х	Х		T
S-402	BEARING WALL ELEVATIONS	Х	Х		T
S-403	BEARING WALL ELEVATIONS	Х	Х		Ī
S-404	SCREEN WALL ELEVATIONS	Х	Х		
S-501	TYPICAL DETAILS	Х	Х		ſ
S-502	TYPICAL DETAILS	Х	Х		Γ
S-503	TYPICAL DETAILS	Х	Х		T
S-504	TYPICAL DETAILS	Х	Х		T
S-601	COLUMN SCHEDULE AND DETAILS	Х	Х	Х	Γ
DESI	GN CRITERIA UFC 3-301-01 / AS	SCE 7	'-16 /	IBC	2

ELOOP DESIGN LIVE LOADS (SEE DIAGRAMS ON SION

FLOOR DESIGN LIVE LOADS (SEE DIAGRAMS ON S-003)	
CATWALKS / DUNNAGE PLATFORMS (AROUND EQUIPMENT)	40 PSF
OFFICE PLUS PARTITIONS	50 PSF+20 PSF
CORRIDOR	80 PSF
LIBRARY STACK ROOMS	150 PSF
BALCONY / TERRACE	100 PSF
MECHANICAL / ELECTRICAL ROOMS (TYPICAL)	150 PSF*
MECHANICAL / ELECTRICAL ROOMS (HEAVY)	250 PSF*
STAIRS	100 PSF
HIGH DENSITY STORAGE	300 PSF
ASSEMBLY AREAS	100 PSF
BALLROOM STAGE	150 PSF
*LIVE LOADS INCLUDE EQUIPMENT WEIGHT. LOCALIZED PRESSURES BE	NEATH EQUIPMEN

EXCEED THE STATED LIVE LOAD, BUT THE OVERALL FRAMING SYSTEM IS ADEQUATE

COLLATERAL LOADS (SUPERIMPOSED DEAD LOADS)*	
BALCONY/TERRACE	125 PSF
LIBRARY STACK ROOMS	15 PSF
EXISTING FLOORS	15 PSF
CATWALKS	5 PSF
DUNNAGE PLATFORMS	15 PSF
MECHANICAL / ELECTRICAL ROOMS	20 PSF
HIGH DENSITY STORAGE	35 PSF
ASSEMBLY AREAS	15 PSF
*COLLATERAL LOADS DO NOT INCLUDE SELF WEIGHT OF SLA	B, DECK, OR FRAMING ELEMENTS

ROOF DESIGN LIVE LOADS

ROOF 20 PSF **DEFLECTION CRITERIA**

DEAD LOAD: EXISTING BUILDING DEAD LOAD DEFLECTIONS HAVE BEEN FULLY EXPERIENCED AND HAVE NOT BEEN CONSIDERED FOR DESIGN. NEW FLOOR FRAMING IS DESIGNED FOR L/240. LIVE LOAD: IT IS ASSUMED THAT EXISTING FRAMING WAS DESIGNED FOR LIVE LOAD DEFLECTIONS OF L/360. NEW FLOOR FRAMING IS DESIGNED FOR L/360. HIGH-DENSITY STORAGE COMPONENTS MUST BE COORDINATED WITH THE SCOPE OF WORK FOR THOSE AREAS WHERE LI AND TO BE INSTALLED. THEY ARE TO BE INSTALLED.

SNOW LOADS (CRITERIA IDENTIFIED IN STRUCTURAL LOAD DATA TOOL, HOSTED ON WHOLE BUILDING DESIGN GUIDE WEBSITE (https://www.wbdg.org/additional-resources/tools/ufcsIdt))

WIND LOADS ON COMPONENTS AND CLADDING (FACTORED) - SEE DIAGRAMS ON S-003

RESPONSE MODIFICATION FACTOR,

<u>LATERAL LOADS - WIND</u> (CRITERIA IDENTIFIED IN STRUCTURA WHOLE BUILDING DESIGN GUIDE WEBSITE (https://www.wbdg.c	
WIND LOAD DESIGN PARAMETERS	
BASIC WIND SPEED,	V=122 MPH
WIND EXPOSURE	D
INTERNAL PRESSURE COEFFICIENT,	GCpi=±0.18
WIND LOAD ON MAIN WIND FORCE RESISTING SYSTEM (FACTO	ORED) - SEE DIAGRAMS ON S-003

<u>LATERAL LOADS - SEISMIC</u> (CRITERIA IDENTIFIED IN STRUCTURAL LOAD DATA TOOL, HOSTED ON WHOLE BUILDING DESIGN GUIDE WEBSITE (https://www.wbdg.org/additional-resources/tools/ufcsIdt))

RISK CATEGORY		III
SEISMIC IMPORTANCE FACTOR,		I=1.25
SHORT PERIOD MAPPED SPECTRAL RESPONSE	ACCELERATION	Ss=0.26g
1-SECOND MAPPED SPECTRAL RESPONSE ACC	ELERATION	S₁=0.06g
LONG PERIOD TRANSITION PERIOD		TL=6
SITE CLASS		С
SHORT PERIOD SPECTRAL RESPONSE COEFFIC	IENT	Sps=0.226
1-SECOND PERIOD SPECTRAL RESPONSE COEF	FICIENT	S _{D1} =0.059
SEISMIC DESIGN CATEGORY,		В
ANALYSIS PROCEDURE		EQUIV. LAT. FORCE
BASIC SEISMIC-FORCE-RESISTING SYSTEM	ORDINARY PLAIN MAS	SONRY SHEAR WALLS



10

				4/7/2021	2/11/2021	DATE
				AMENDMENT 1	RTA SUBMISSION	DESCRIPTION
				~	0	/ MARK

	DESIGNED BY:	ISSUE DATE:
	KMK	02/11/2021
	DRAWN BY:	SOLICITATION NO.:
	ZBW	W912DS-19-K-0014
	CHECKED BY:	CONTRACT NO.:
	PC	W912DS-19-C0031
SUB / SUB	SUBMITTED BY:	PROJECT NO:
	PC	20190494
enture	SIZE	
	ANSID	

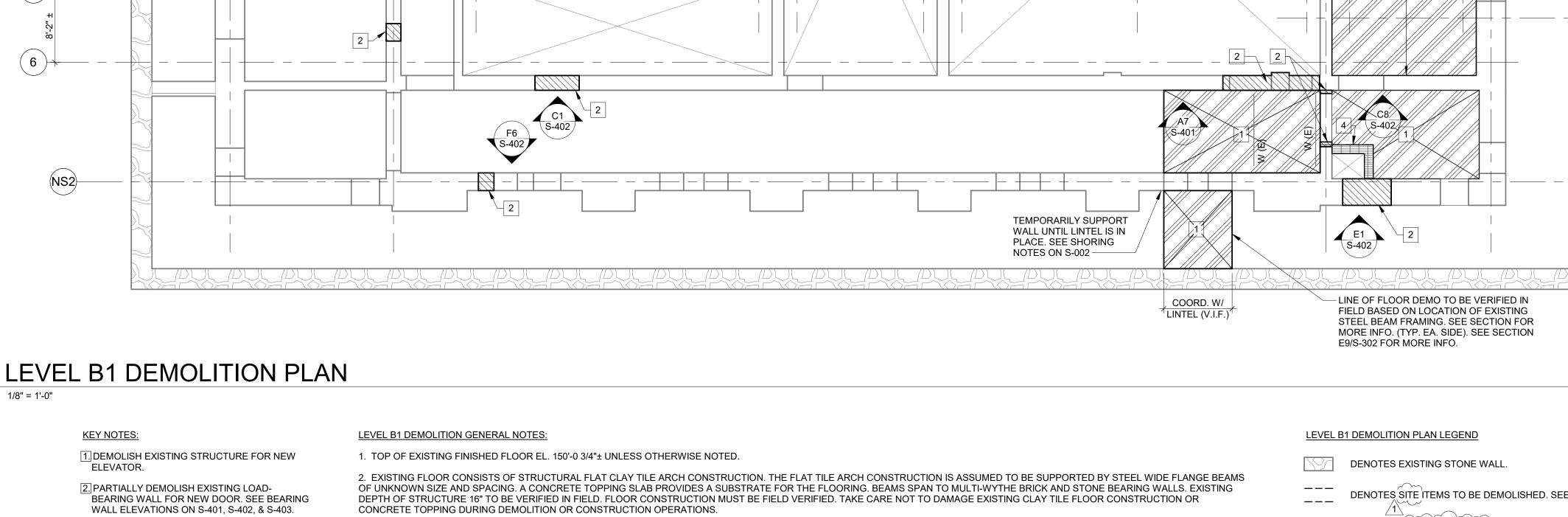
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B1 SD-102

1/8" = 1'-0"



 $\left(\mathsf{D}\right)$

19'-10" ±

19'-2" ±

, 4'-10" ±

A1 S-401

12'-10" ±

165'-0" +/-

14'-4" ±

DENOTES SITE ITEMS TO BE DEMOLISHED. SEE KEY NOTES.

DENOTES FLOOR STRUCTURE TO BE DEMOLISHED. SEE KEY NOTES.

DENOTES PARTITION WALLS TO BE DEMOLISHED. SEE KEY NOTES.

DENOTES LOAD-BEARING WALLS TO BE DEMOLISHED. SEE KEY NOTES.

SCALE: 1/8"=1'-0"

SHEET ID PLAN NORTH

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8. FOR BALANCE OF NON-LOAD BEARING PARTITION AND ARCHITECTURAL ELEMENTS TO BE DEMOLISHED - SEE ARCHITECTURAL DRAWINGS.

3. DEMOLISH EXISTING STRUCTURAL FLOOR AND

EW2

D6 S-402

FRAMING. (V.I.F.) 4. DEMOLISH EXISTING WALLS FOR OLD SMOKE

1. DEMOLISH EXISTING STRUCTURE FOR NEW

BEARING WALL FOR NEW DOOR. SEE BEARING

WALL ELEVATIONS ON S-401, S-402, & S-403.

2. PARTIALLY DEMOLISH EXISTING LOAD-

5. DEMOLISH EXISTING LOAD-BEARING WALL.

6. DEMOLISH EXISTING EXTERIOR CONCRETE STAIR, LANDING, AND CHEEK WALLS.

3. WALLS, SLABS, AND OTHER STRUCTURAL ELEMENTS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE (TYP.).

4. COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.

32'-0" ±

3.5

5. PROVIDE AND MAINTAIN SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. SEE SHORING NOTES ON S-002 FOR MORE INFORMATION.

6. DEMOLISH EXISTING STRUCTURAL SLABS AND FLOOR FRAMING ELEMENTS TO FACES OF EXISTING BEARING WALLS. DO NOT DISTURB EXISTING BEARING WALLS (TYP.).

7. FOR MORE INFORMATION, SEE S-001 AND S-002 FOR NOTES, S-401 AND S-402 FOR BEARING WALL ELEVATIONS, AND S-501 THROUGH S-504 FOR TYPICAL DETAILS.

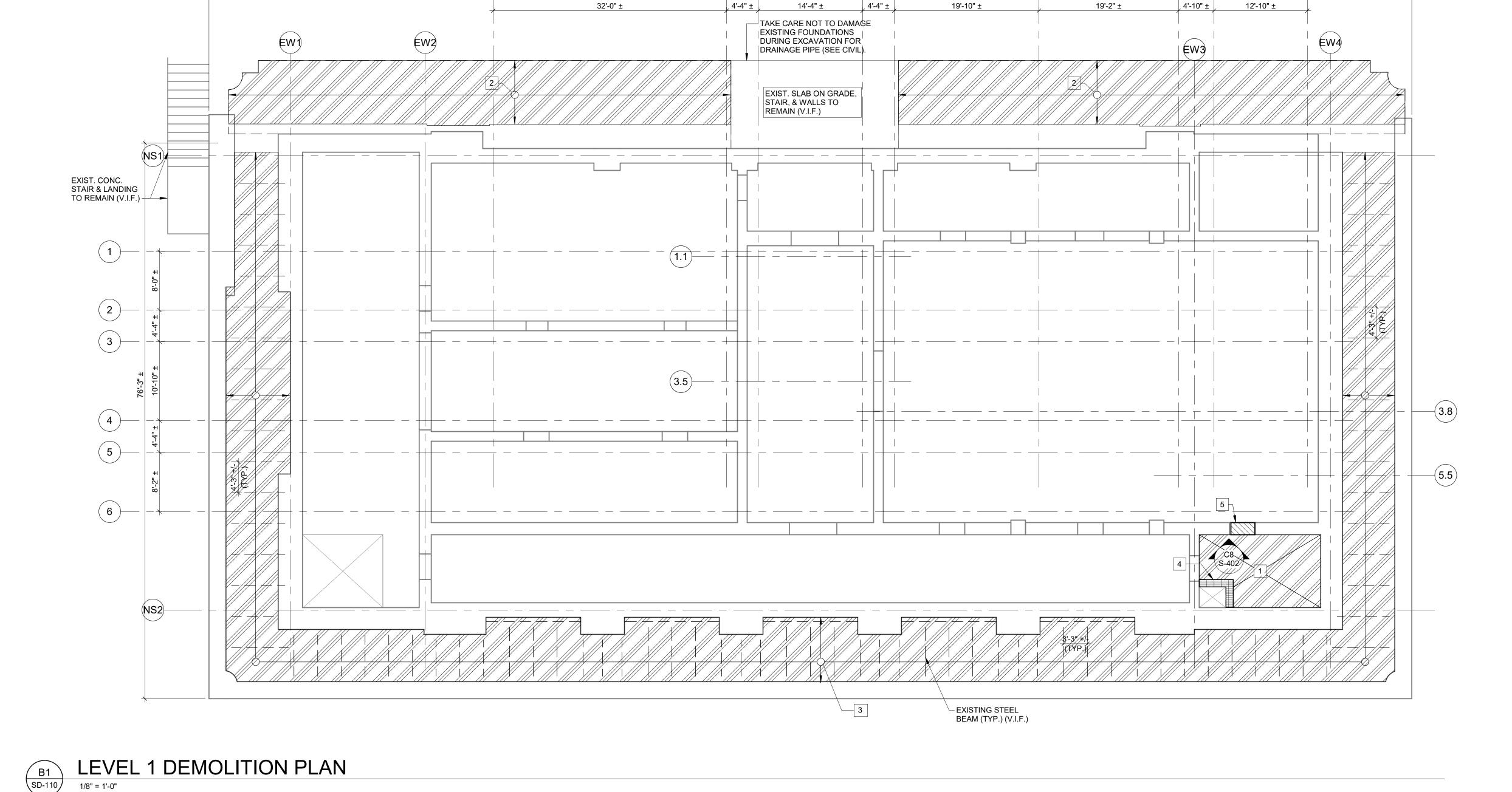
KEY NOTES:

ELEVATOR.

NS1)=

NS2

EXIST. CONC. STAIR & LANDING TO REMAIN (V.I.F.)



LEVEL 1 DEMOLITION PLAN LEGEND

DENOTES EXISTING STONE WALL.

(H)

___ DENOTES, FRAMING TO BE DEMOLISHED. SEE KEY NOTES.

> DENOTES FLOOR STRUCTURE TO BE DEMOLISHED. SEE KEY NOTES. DENOTES, LOAD-BEARING WALL TO BE DEMOLISHED. SEE KEY NOTES.

DENOTES PARTITION WALL TO BE DEMOLISHED. SEE KEY NOTES.

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PLAN NORTH

SCALE: 1/8"=1'-0"

LEVEL 1 DEMOLITION GENERAL NOTES:

BEARING WALLS (TYP.).

1. TOP OF EXISTING FINISHED FLOOR EL. 161'-7 3/4"± UNLESS OTHERWISE NOTED.

CONSTRUCTION BEING DEMOLISHED. SEE SHORING NOTES ON S-002 FOR MORE INFORMATION.

2. EXISTING FLOOR CONSISTS OF STRUCTURAL FLAT CLAY TILE ARCH CONSTRUCTION. THE FLAT TILE ARCH CONSTRUCTION IS ASSUMED TO BE SUPPORTED BY

5. PROVIDE AND MAINTAIN SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF

6. DEMOLISH EXISTING SLABS ON GRADE AND STRUCTURAL FLOOR FRAMING ELEMENTS TO FACES OF EXISTING BEARING WALLS. DO NOT DISTURB EXISTING

TO DAMAGE EXISTING CLAY TILE FLOOR CONSTRUCTION OR CONCRETE TOPPING DURING DEMOLITION OR CONSTRUCTION OPERATIONS.

8. FOR BALANCE OF NON-LOAD BEARING PARTITION AND ARCHITECTURAL ELEMENTS TO BE DEMOLISHED - SEE ARCHITECTURAL DRAWINGS.

4. CONTRACTOR TO COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.

3. WALLS, SLABS, AND OTHER STRUCTURAL ELEMENTS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE (TYP.).

7. FOR MORE INFORMATION, SEE S-001 AND S-002 FOR NOTES, AND S-501 THROUGH S-504 FOR TYPICAL DETAILS.

STEEL WIDE FLANGE BEAMS OF UNKNOWN SIZE AND SPACING. A CONCRETE TOPPING SLAB PROVIDES A SUBSTRATE FOR THE FLOORING. BEAMS SPAN MULTI-WYTHE

BRICK AND STONE BEARING WALLS. EXISTING DEPTH OF STRUCTURE 16" TO BE VERIFIED IN FIELD. FLOOR CONSTRUCTION MUST BE FIELD VERIFIED. TAKE CARE NOT

KEY NOTES:

1. DEMOLISH STRUCTURE FOR NEW ELEVATOR.

2. REMOVE WEST TERRACE BRICK PAVERS AND

3. EXTENT OF EXISTING TERRACE FRAMING TO

BE DEMOLISHED BETWEEN STONE WALLS.

4. DEMOLISH EXISTING WALLS FOR OLD SMOKE

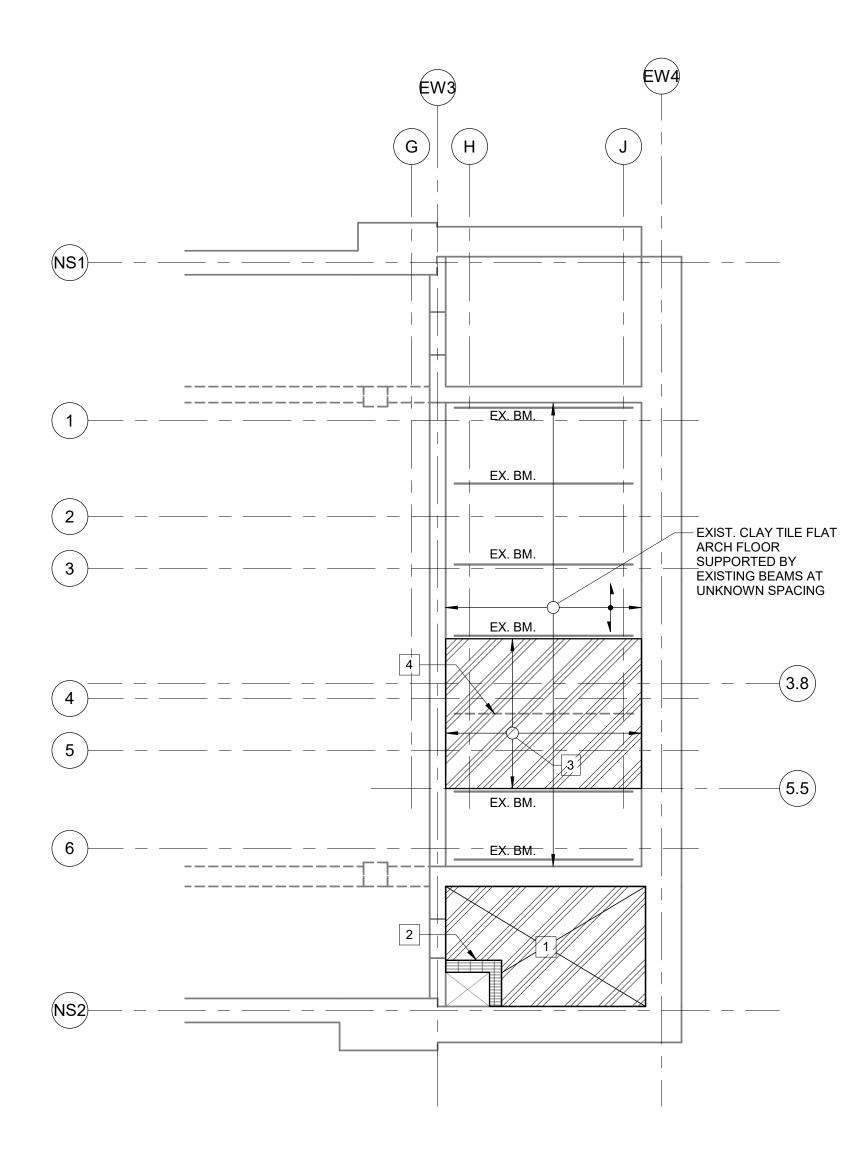
BEARING WALL FOR NEW DOOR. SEE BEARING

WALL ELEVATIONS ON S-401, S-402, & S-403.

5. PARTIALLY DEMOLISH EXISTING LOAD-

VERIFY ALL FRAMING IN FIELD.

DEMOLISH SLAB ON GRADE UP TO BUILDING



C3 LEVE D-120 1/8" = 1'-0"

LEVEL 2 PARTIAL DEMOLITION PLAN

LEVEL 2 STAGE / FRAMING PLAN LEGEND

DENOTES APPROXIMATE EXTENT OF EXISTING STAGE FRAMING TO BE DEMOLISHED FOR DUCTWORK, COORDINATE WITH MECHANICAL DRAWINGS.

D

DENOTES PARTITION WALLS TO BE DEMOLISHED. SEE KEY NOTES.

KEY NOTES:

1. DEMOLISH STRUCTURE FOR NEW ELEVATOR.

2. DEMOLISH EXISTING WALLS FOR OLD SMOKE FLUE.

3. WHERE MECHANICAL DUCT CONFLICTS WITH EXISTING BEAM, REMOVE CLAY TILE ARCH BAYS ON EITHER SIDE OF CONFLICTING BEAM TO CENTERLINE OF ADJACENT BEAMS (V.I.F.). WHERE DUCT PENETRATION OCCURS BETWEEN EXISTING BEAMS, SEE TYPICAL DETAILS ON S-504.

4. REMOVE EXISTING BEAM WHERE IT INTERFERES WITH DUCT PENETRATION (V.I.F.).

5. DEMOLISH EXISTING STAGE FLOOR AND FRAMING TO INSTALL DUCTWORK. COORDINATE WITH MECHANICAL DRAWINGS.

LEVEL 2 NOTES:

1. TOP OF EXISTING FINISHED FLOOR ELEVATION 177'-2 3/4"± TO BE FIELD VERIFIED.

2. WALLS, SLABS, FOUNDATIONS, AND OTHER STRUCTURAL ELEMENTS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE

3. EXISTING FLOOR CONSISTS OF STRUCTURAL FLAT CLAY TILE ARCH CONSTRUCTION. THE FLAT TILE ARCH CONSTRUCTION IS ASSUMED TO BE SUPPORTED BY STEEL WIDE FLANGE BEAMS OF UNKNOWN SIZE AND SPACING. A CONCRETE TOPPING SLAB PROVIDES A SUBSTRATE FOR THE FLOORING. BEAMS SPAN TO MULTI-WYTHE BRICK AND STONE BEARING WALLS. EXISTING DEPTH OF STRUCTURE IS ESTIMATED TO BE 16". FLOOR CONSTRUCTION MUST BE VERIFIED IN FIELD. TAKE CARE NOT TO DAMAGE EXISTING CLAY TILE FLOOR CONSTRUCTION OR CONCRETE TOPPING DURING DEMOLITION OR CONSTRUCTION OPERATIONS.

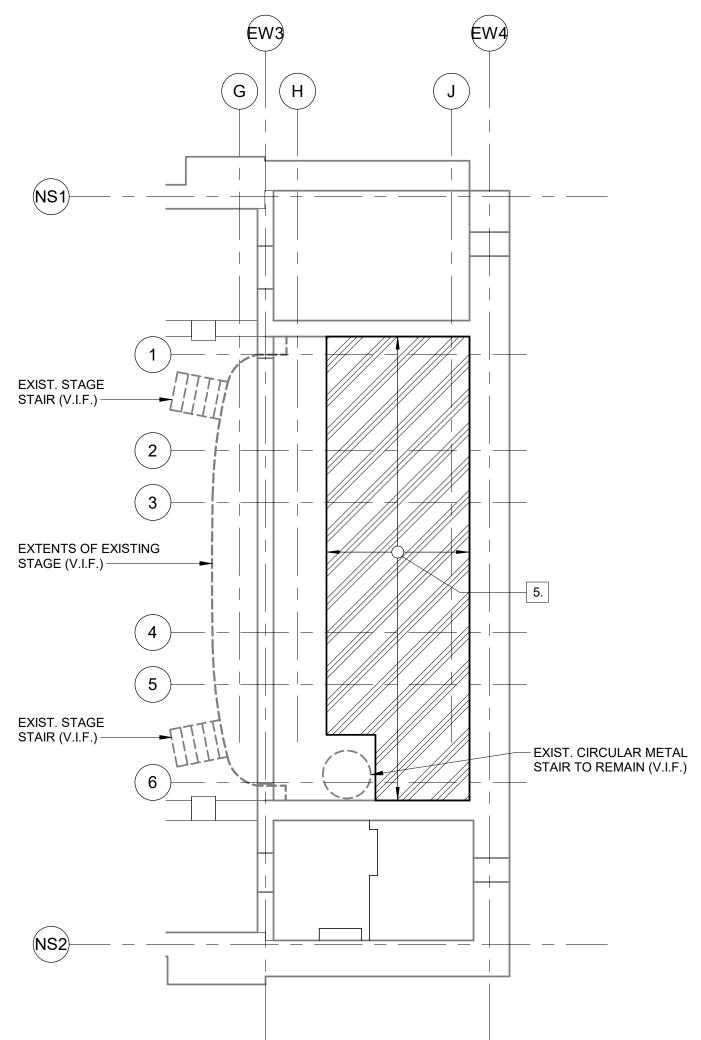
4. COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.

5. COORDINATE ALL DIMENSIONS FOR MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND EQUIPMENT MANUFACTURER.

6. SEE DRAWINGS S-001 AND S-002 FOR ADDITIONAL NOTES AND S-501 FOR TYPICAL DETAILS.

7. PROVIDE AND MAINTAIN SHORING, BRACING, OR STRUCTURAL SUPPORT TO MAINTAIN STABILITY. SEE NOTES ON S-001 AND S-002 FOR MORE INFORMATION.

8. FOR BALANCE OF NON-LOAD BEARING PARTITION AND ARCHITECTURAL ELEMENTS TO BE DEMOLISHED - SEE ARCHITECTURAL



LEVEL 2 PARTIAL DEMOLITION PLAN - STAGE LEVEL

C6 SD-120

1/8" = 1'-0"

LEVEL 2 STAGE NOTES:

1. TOP OF EXISTING STAGE ELEVATION 180'-9 1/4"+ TO BE FIELD VERIFIED.

2. WALLS, SLABS, FOUNDATIONS, AND OTHER STRUCTURAL ELEMENTS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE

3. EXISTING STAGE CONSTRUCTION IS ASSUMED TO CONSIST OF CONVENTIONAL WOOD FLOOR JOISTS SUPPORTING WOOD DECKING ACTING AS A SUBSTRATE FOR THE STAGE FLOOR. FLOOR JOISTS SPAN TO WOOD POSTS AND ARE ANCHORED IN THE LEVEL 2 FLOOR BELOW. STAGE FLOOR CONSTRUCTION MUST BE VERIFIED IN FIELD.

4. COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.

5. COORDINATE ALL DIMENSIONS FOR MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND EQUIPMENT

6. SEE DRAWINGS S-001 AND S-002 FOR ADDITIONAL NOTES AND S-501 FOR TYPICAL DETAILS.

7. PROVIDE AND MAINTAIN SHORING, BRACING, OR STRUCTURAL SUPPORT TO MAINTAIN STABILITY. SEE NOTES ON S-001 AND S-002 FOR MORE INFORMATION.

8. FOR BALANCE OF NON-LOAD BEARING PARTITION AND ARCHITECTURAL ELEMENTS TO BE DEMOLISHED - SEE ARCHITECTURAL

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SD-120

2

NS1

2

NS2

B2 SD-130

EW2

— COORD. NEW PENETRATION LOCS. W/ MECH. DWGS. (TYP.)

8x11 C (E)

8x18 I (E)

8x11 C (E)

ATTIC LEVEL DEMOLITION PLAN

1. REMOVE EXISTING STEEL BEAMS & CLAY TILE

2. REMOVE EXISTING STEEL BEAMS AND WOOD

PLANKS BETWEEN EXISTING MASONRY WALLS.

ARCH FLOOR BETWEEN WALLS (V.I.F.).

KEY NOTES:

 \otimes

⊠ 8x18 I (E)

PLAN NORTH

SHEET ID

ATTIC LEVEL DEMOLITION PLAN LEGEND

ATTIC LEVEL DEMOLITION NOTES:

32'-0" ±

4'-4" ±

14'-4" ±

- 1. TOP OF EXISTING STEEL ELEVATION TO BE FIELD VERIFIED.
- 2. WALLS, SLABS, AND OTHER STRUCTURAL ELEMENTS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE (TYP.).
- 3. CONTRACTOR TO COORDINATE EXISTING FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.

 \bigcirc D

, 4'-4" ±

19'-10" ±

19'-2" ±

EXISTING MASONRY BEARING WALL (V.I.F.) –

EXISTING MASONRY BEARING WALL (V.I.F.) - 12'-10" ±

/8×11/C (E)

//8x18/(E)/

// //8x18/(E)//

/8<u>x18/(E</u>)/

// 8**x18**1 (E)//

8<u>x18 l (E</u>)

/8<u>x18/(E</u>)/

<u>/ 8x18 | (E)/ </u>

8x18 (E)

//8x18/(E)/

<u> /8x18/(E)</u>

8x18 I (E)

/8x18/(E)/

///8x11/C(E)/ |

- 4. PROVIDE AND MAINTAIN SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED
- 5. FOR MORE INFORMATION, SEE S-001 AND S-002 FOR NOTES, AND S-501 THROUGH S-504 FOR TYPICAL DETAILS.

MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. SEE SHORING NOTES ON S-002 FOR MORE INFORMATION.

DENOTES FRAMING TO BE DEMOLISHED. SEE KEY NOTES.

___ DENOTES FLOOR STRUCTURE TO BE DEMOLISHED. SEE KEY NOTES.

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10

ATTIC FRAMING PLAN LEGEND

DENOTES SPAN OF 3-1/4 INCH LIGHTWEIGHT CONCRETE SLAB ON

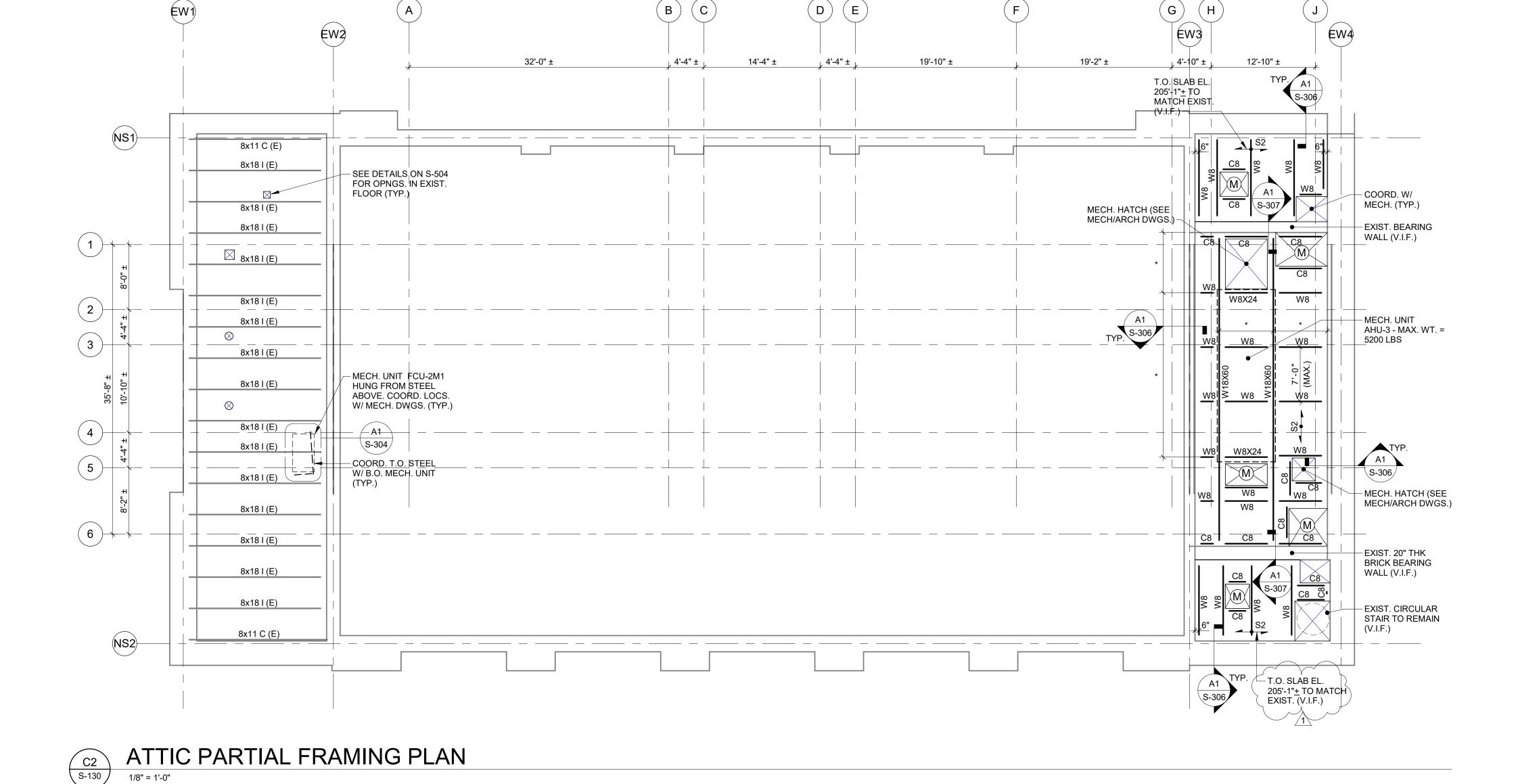
THICKNESS = 5-1/4 INCHES). TOP OF SLAB ELEVATION 203'-0"±. TOP OF STEEL ELEVATION 202'-6 3/4"±. (UNLESS NOTED OTHERWISE)

2-INCH BY 20-GAUGE GALVANIZED COMPOSITE METAL DECK, REINFORCED WITH 6x6-W1.4xW1.4 W.W.F. (TOTAL SLAB

DENOTES AREA DESIGNATED FOR MECHANICAL / ELECTRICAL / PLUMBING CHASE AREA.

1

2



2. COORDINATE ALL DIMENSIONS NOTED THUS, *, WITH EXISTING CONDITIONS AND EQUIPMENT MANUFACTURER.

3. COORDINATE SIZE AND LOCATION OF ALL FLOOR AND WALL OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND TYPICAL DETAILS. FRAME SLAB OPENINGS IN ACCORDANCE WITH TYPICAL DETAIL E7/S-503 AND DETAILS ON S-504. SEE S-401-S-403 AND RELATED SECTIONS FOR LINTELS AT WALL OPENINGS. REFER TO TYPICAL DETAILS FOR

LINTELS NOT SPECIFICALLY SHOWN ON WALL ELEVATIONS. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

4. SEE DRAWINGS S-001 AND S-002 FOR ADDITIONAL NOTES, S-601 FOR COLUMN SCHEDULE AND S-501 FOR TYPICAL DETAILS.

ATTIC LEVEL NOTES:

1. W8 DENOTES W8X18. C8 DENOTES C8X11.5.

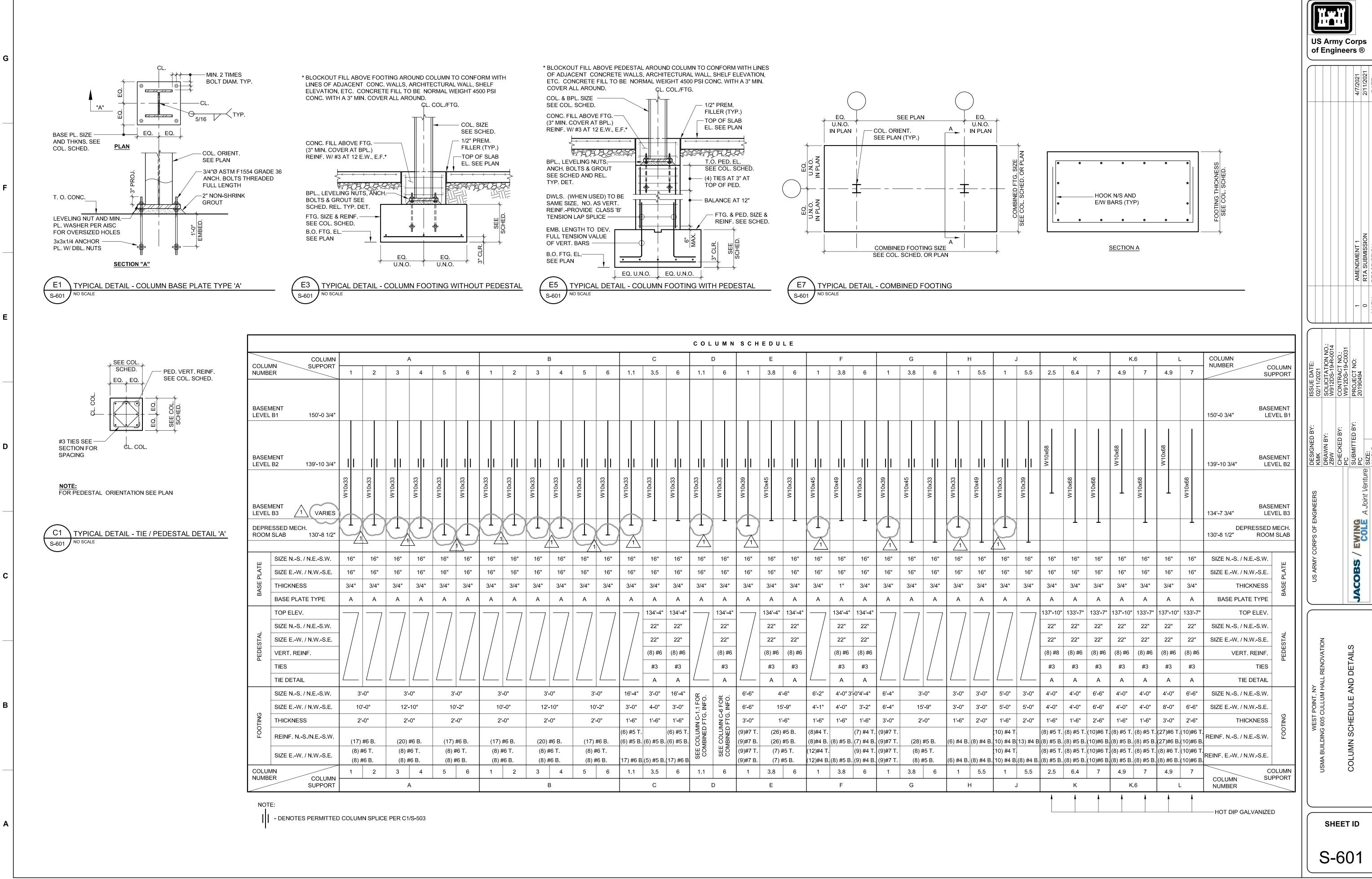
6

10

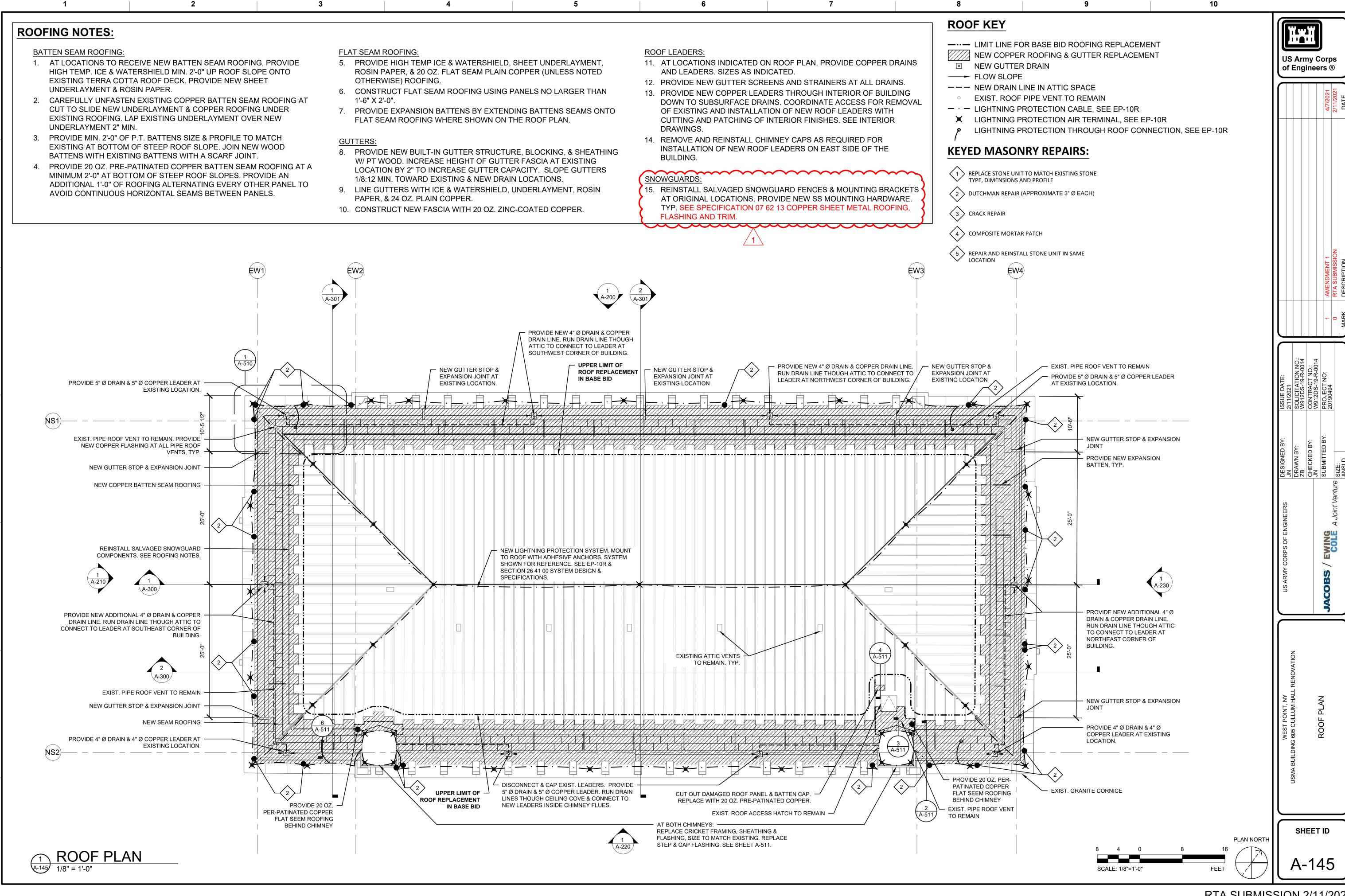
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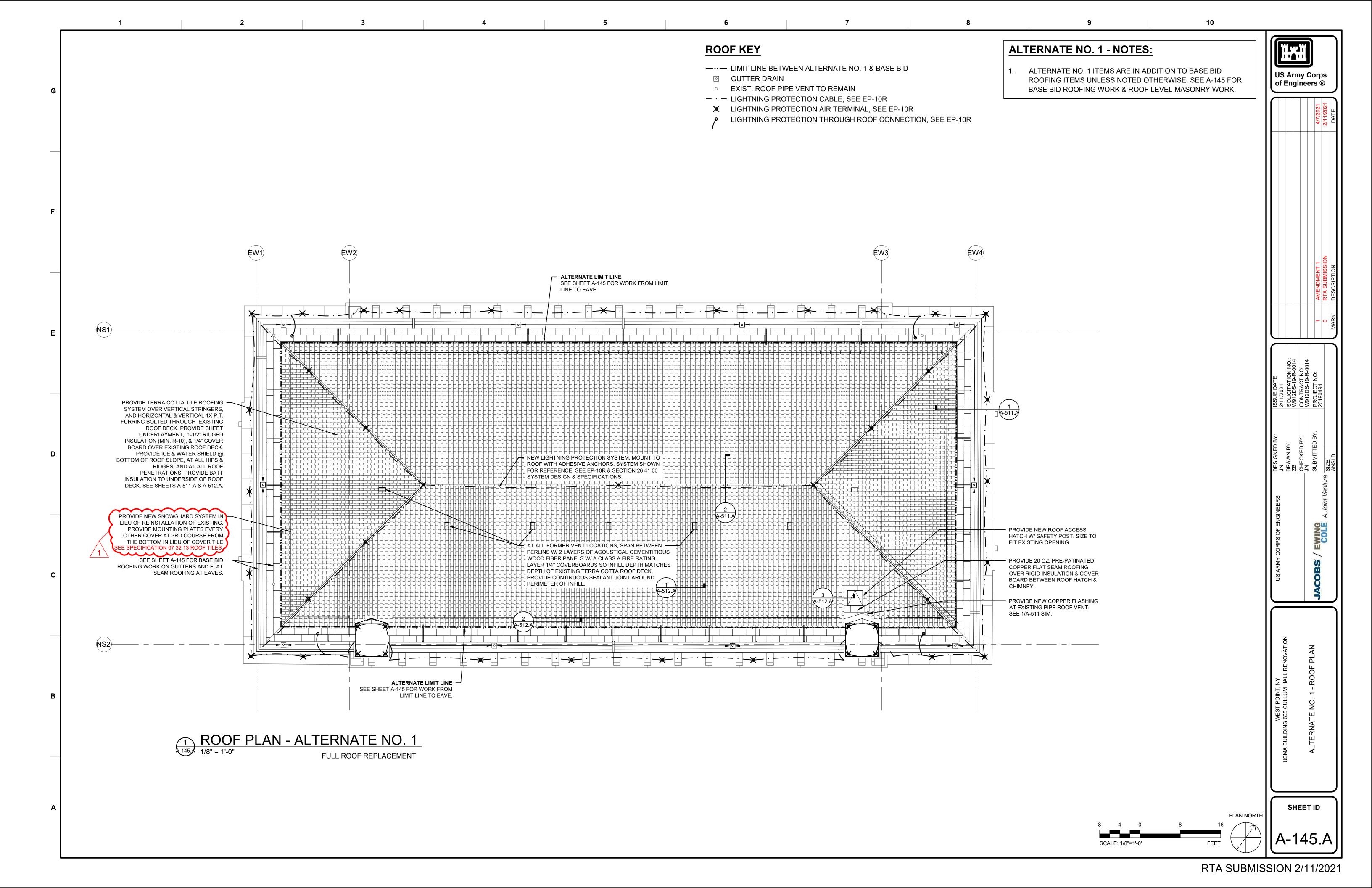
SHEET ID PLAN NORTH

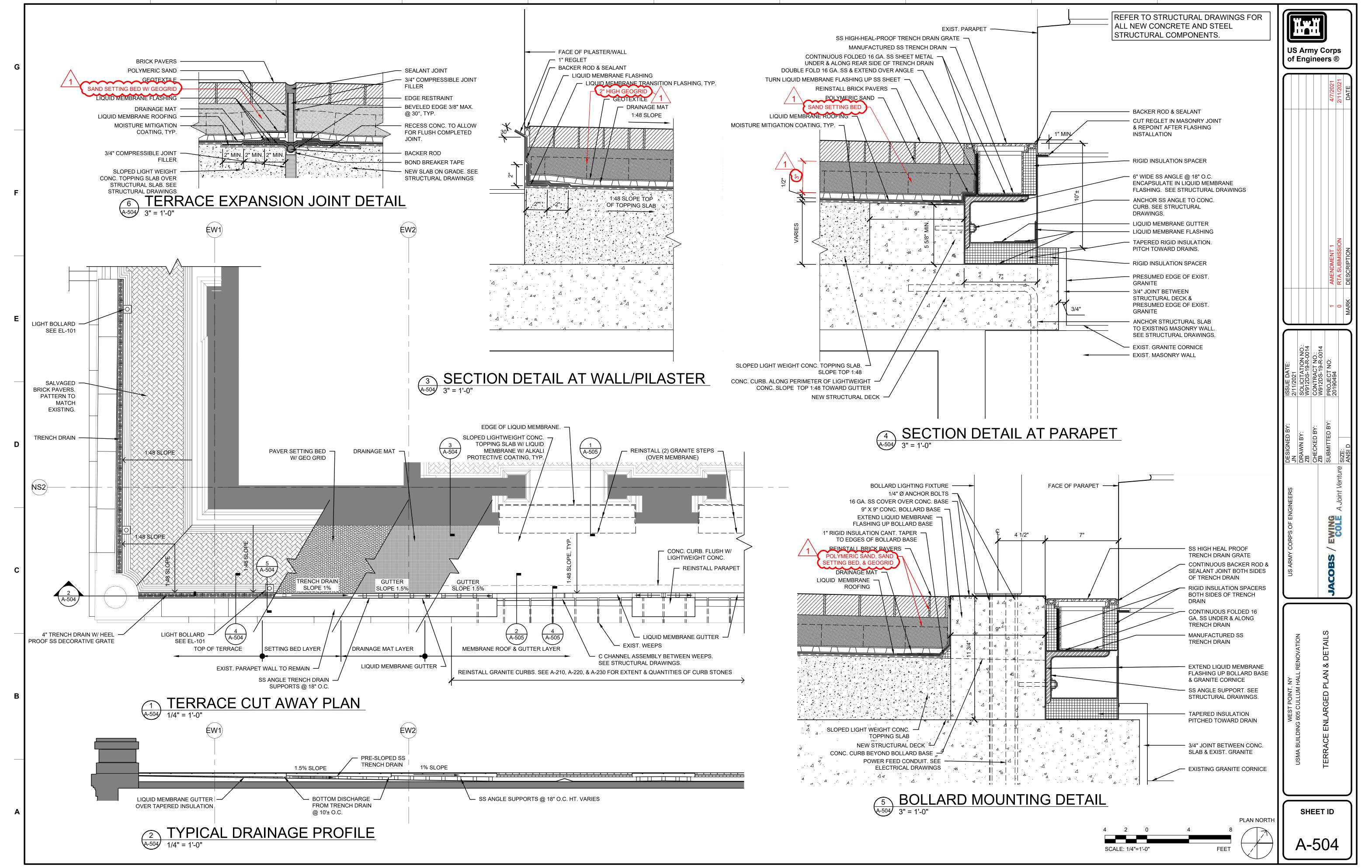
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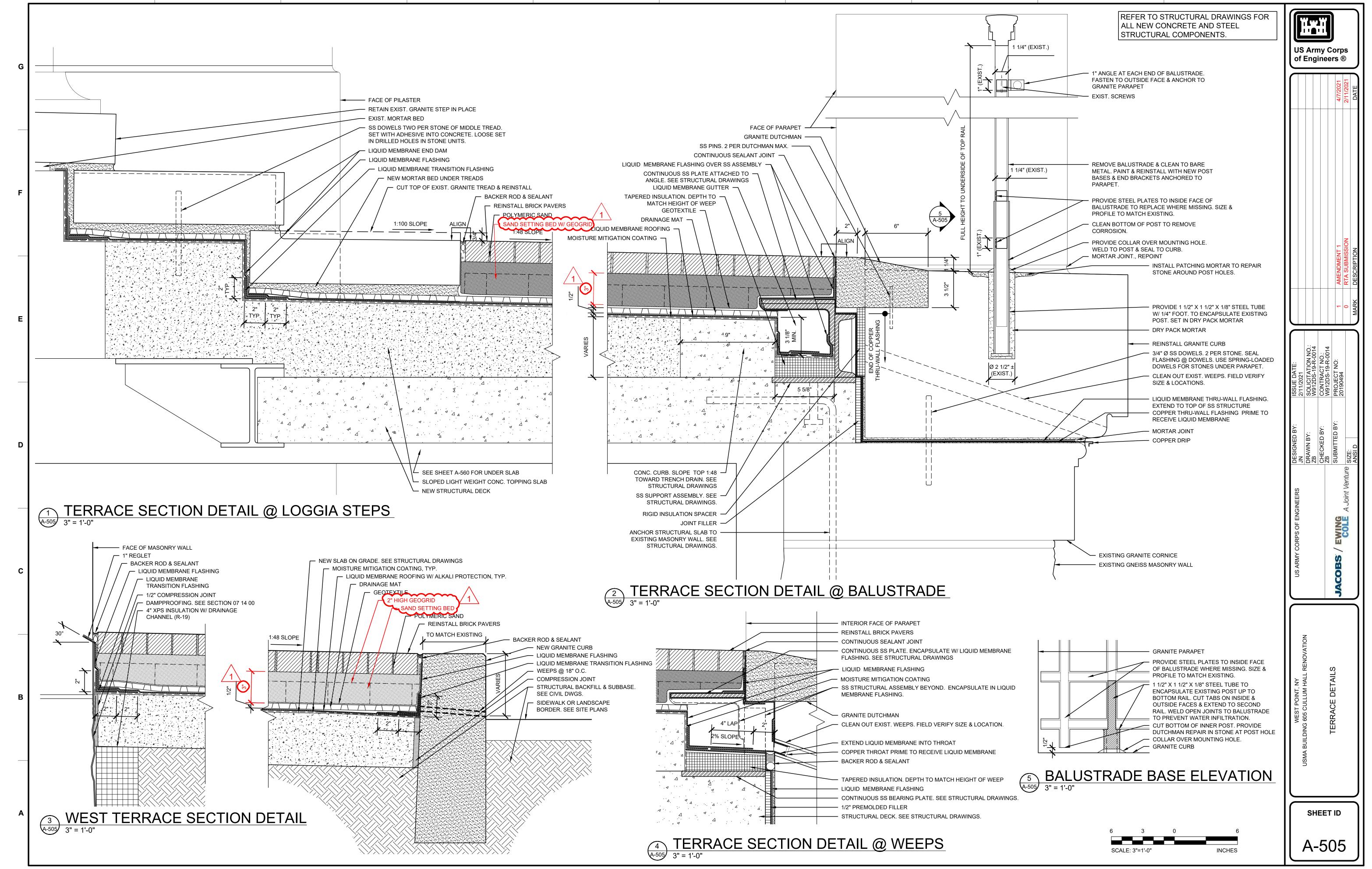


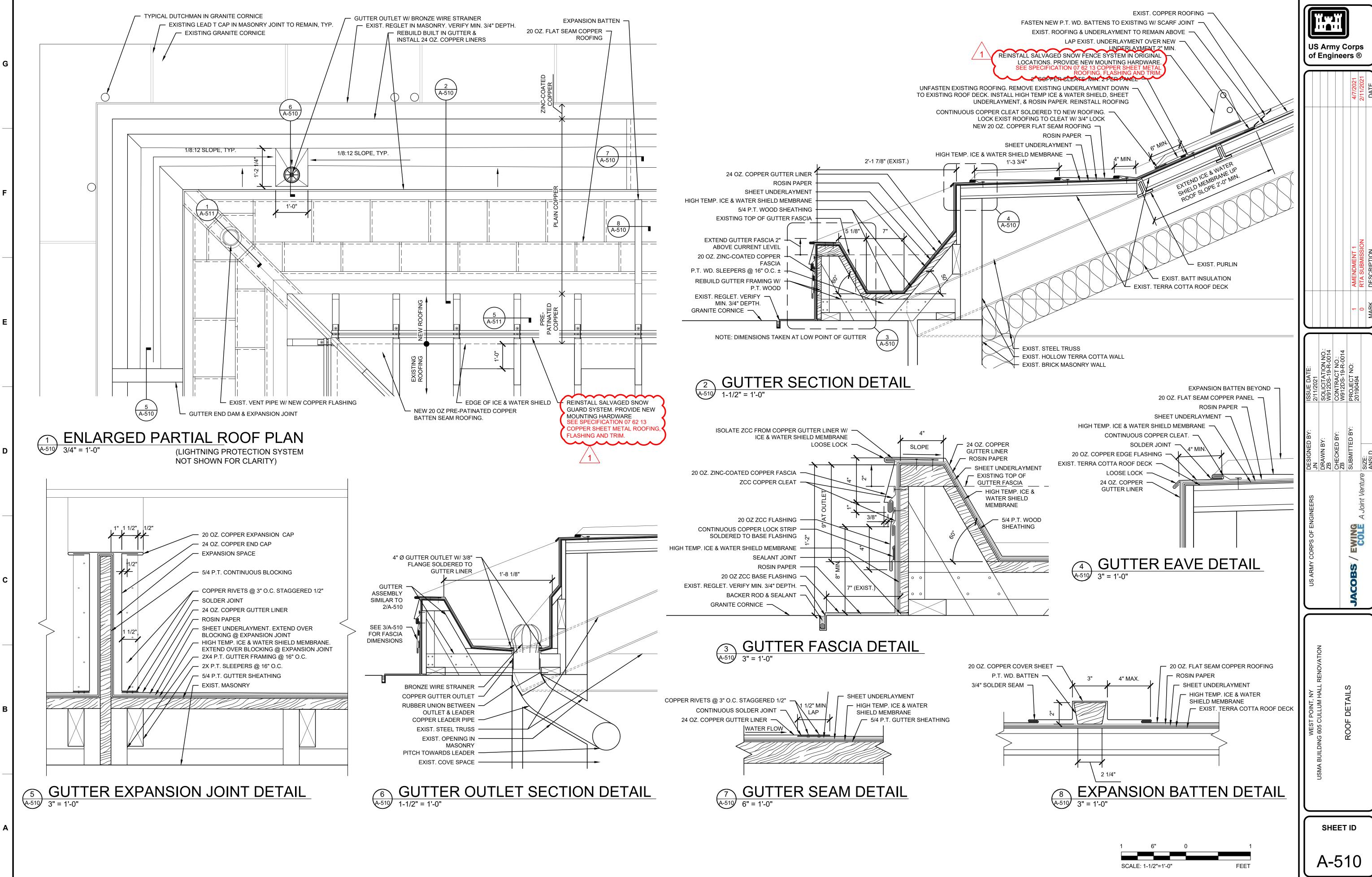
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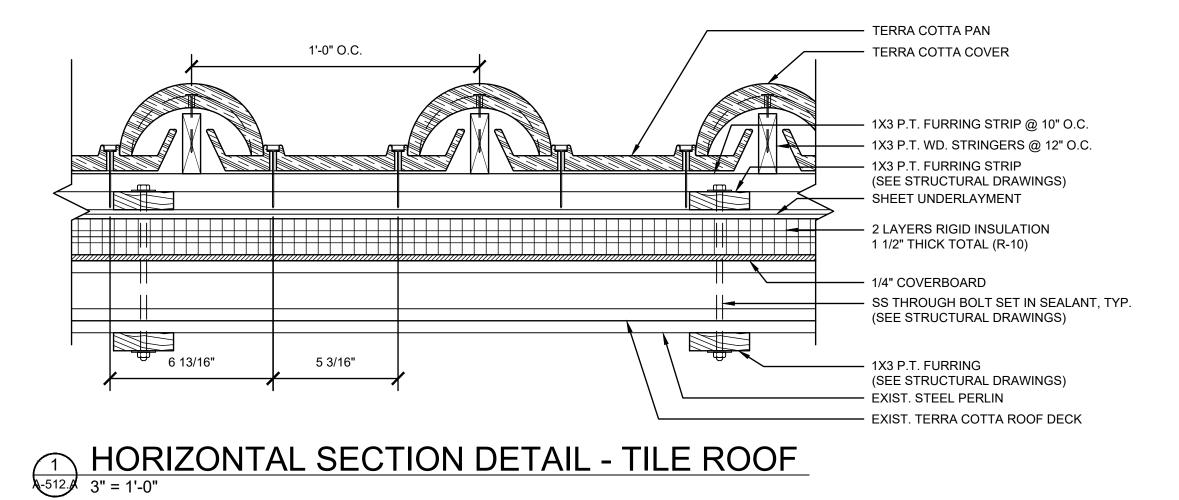


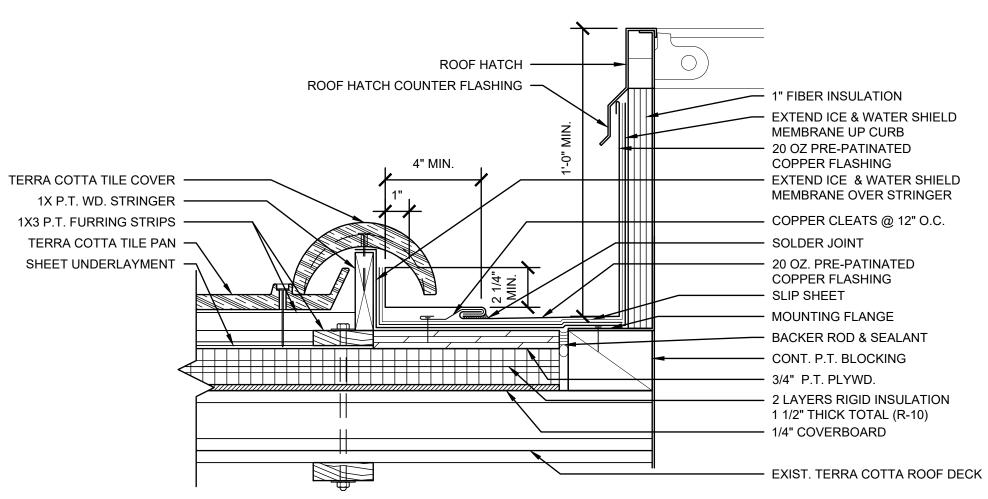




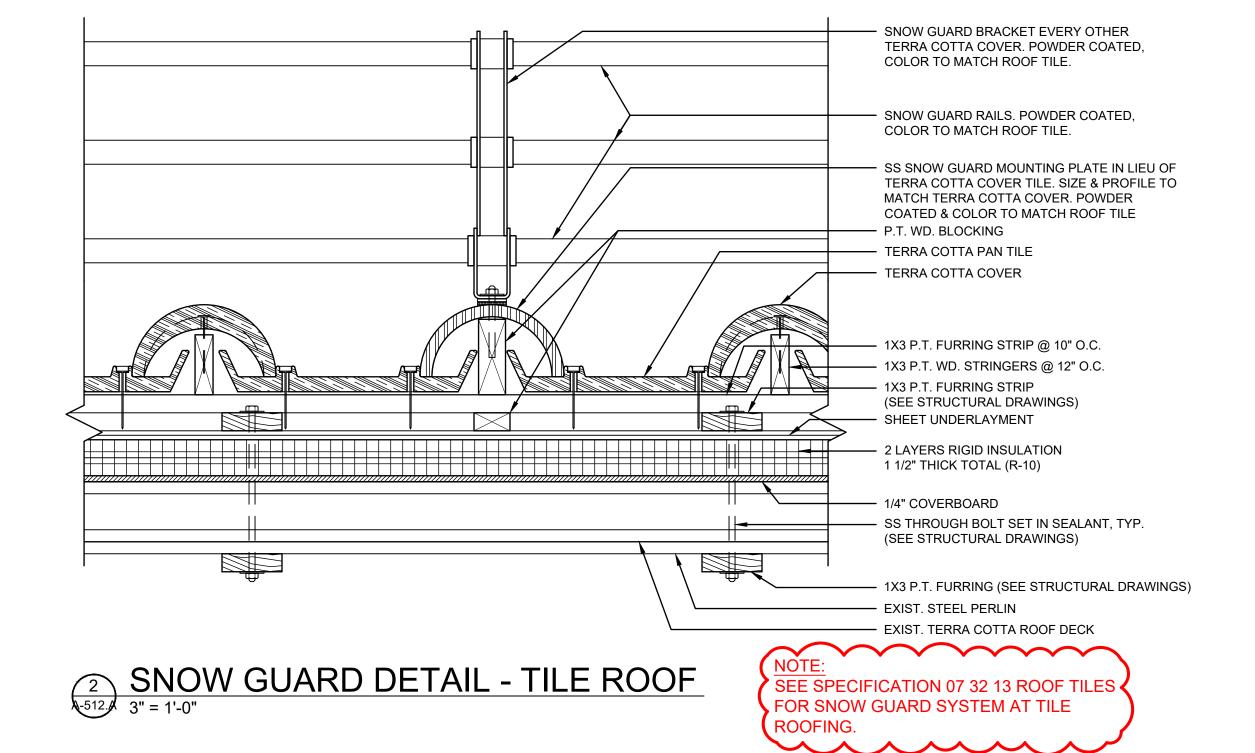


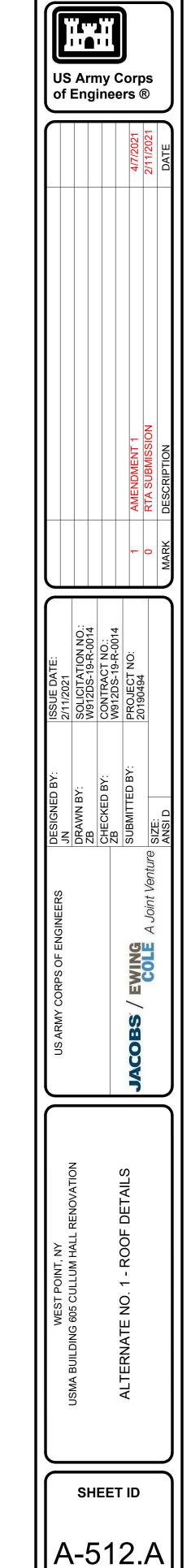
6 3 0 6
SCALE: 3"=1'-0" INCHES



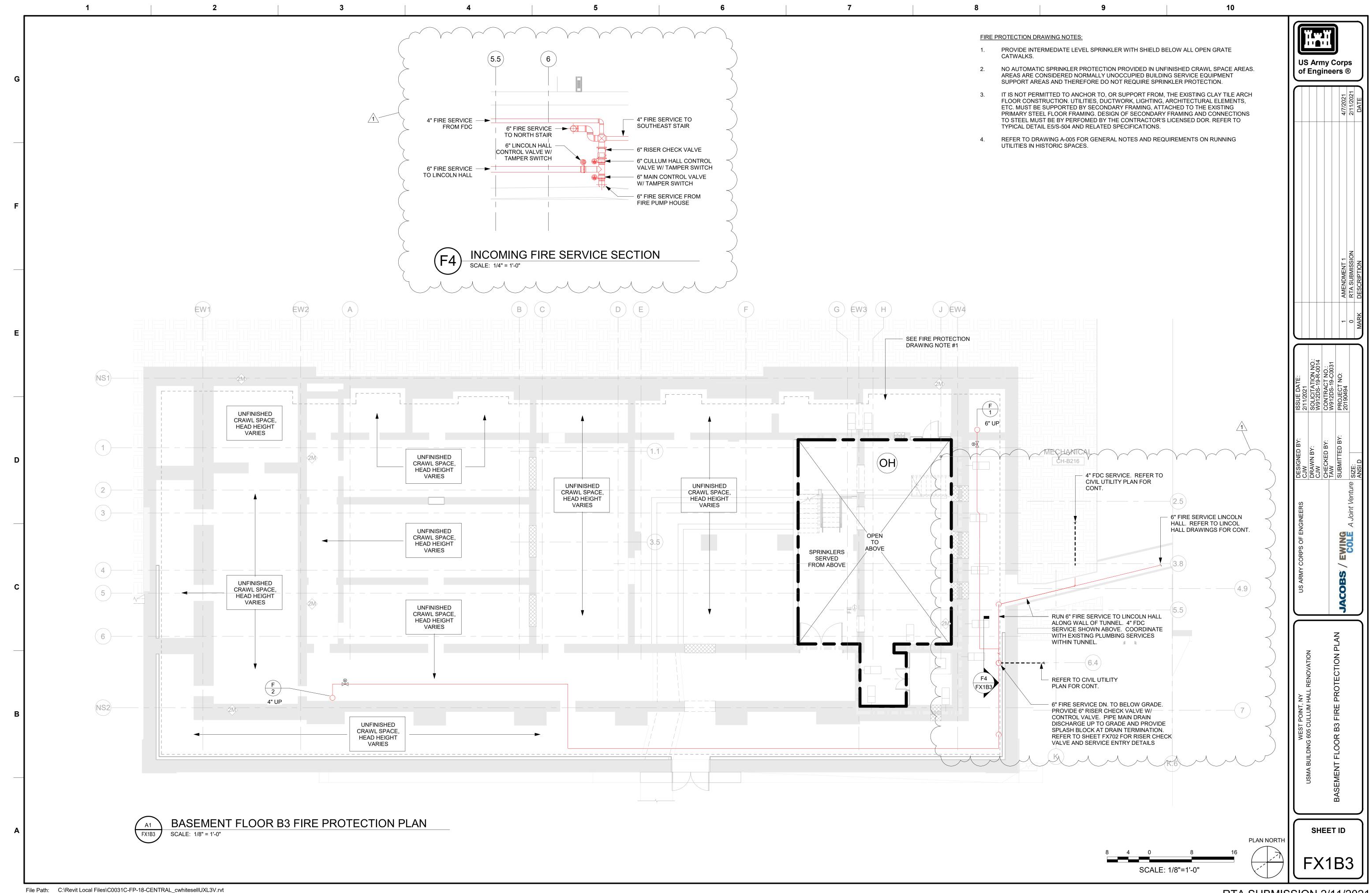


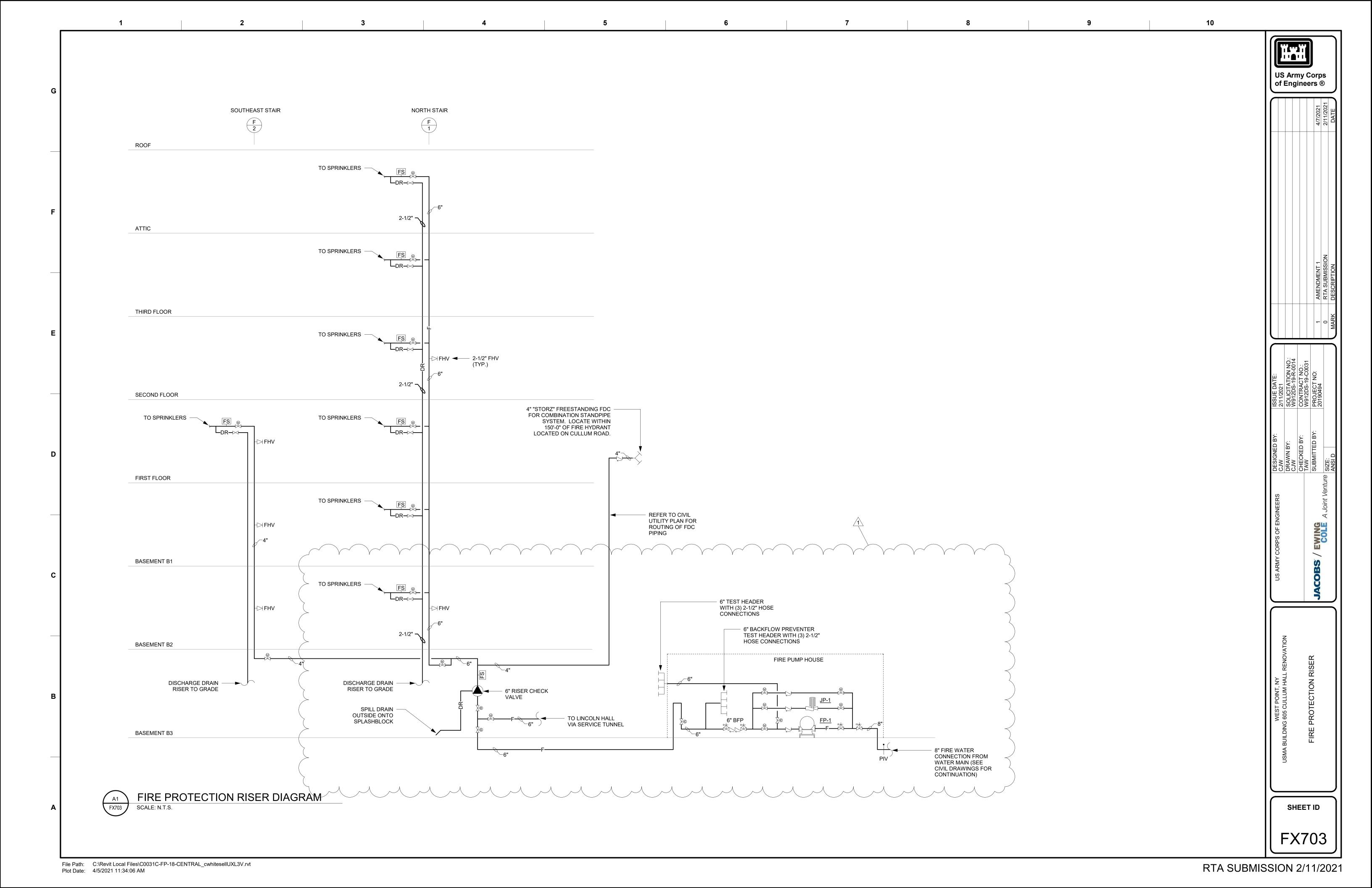


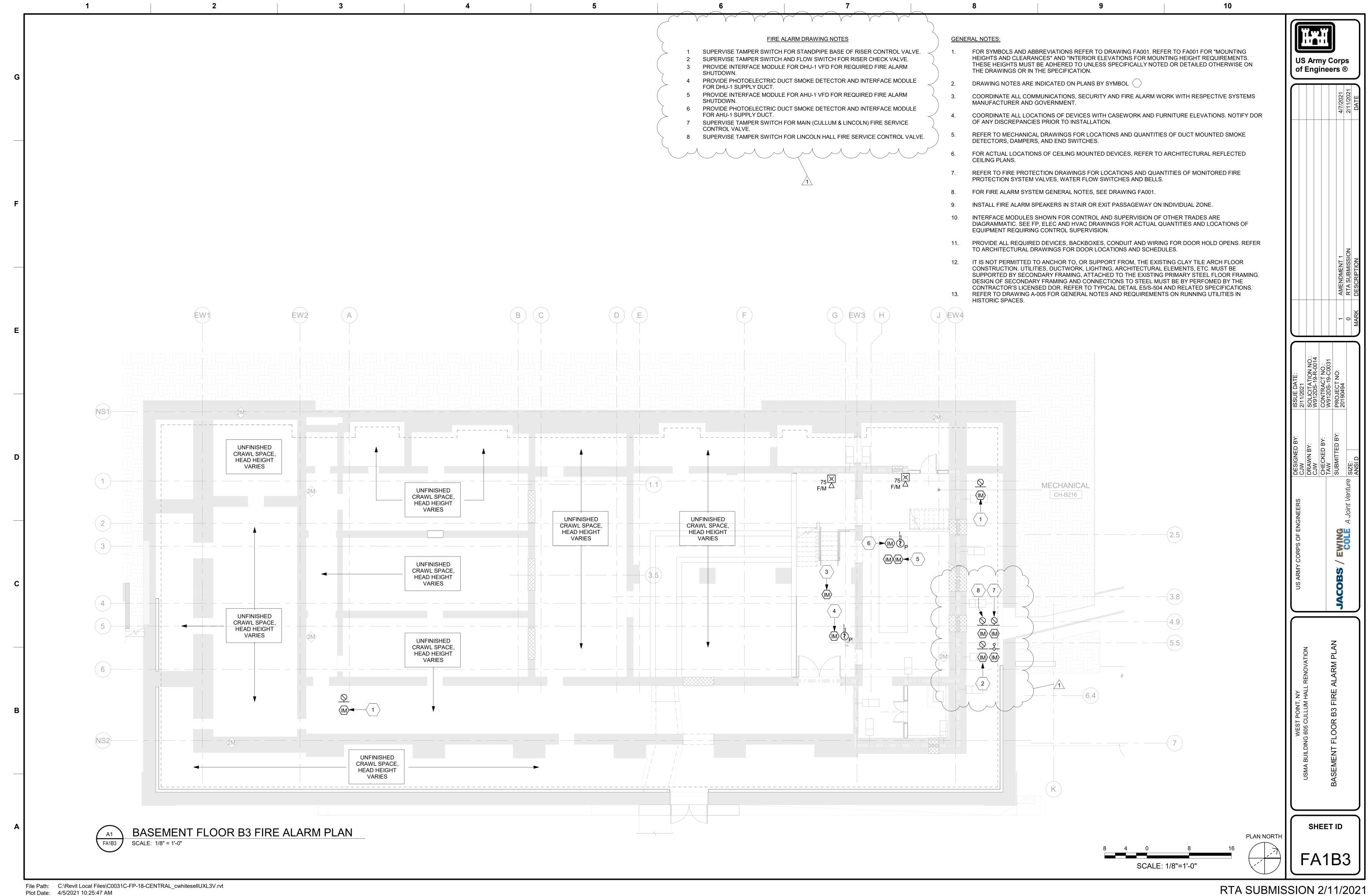


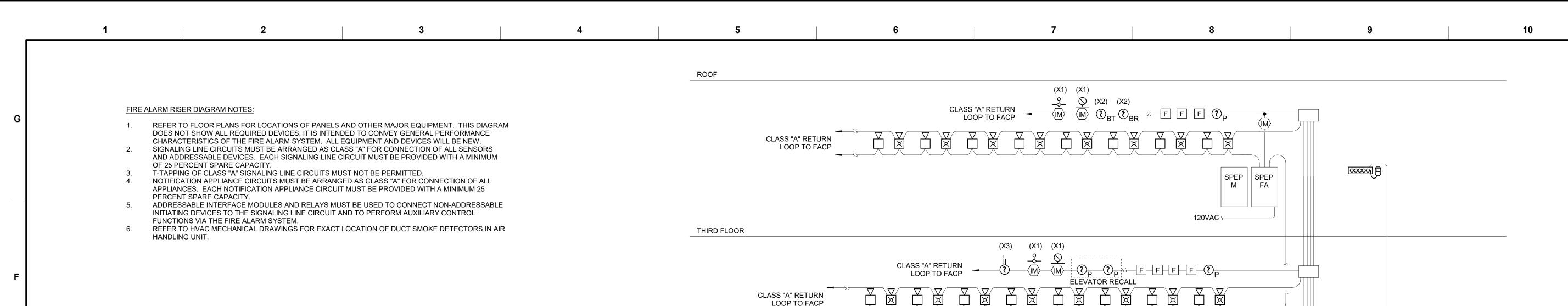


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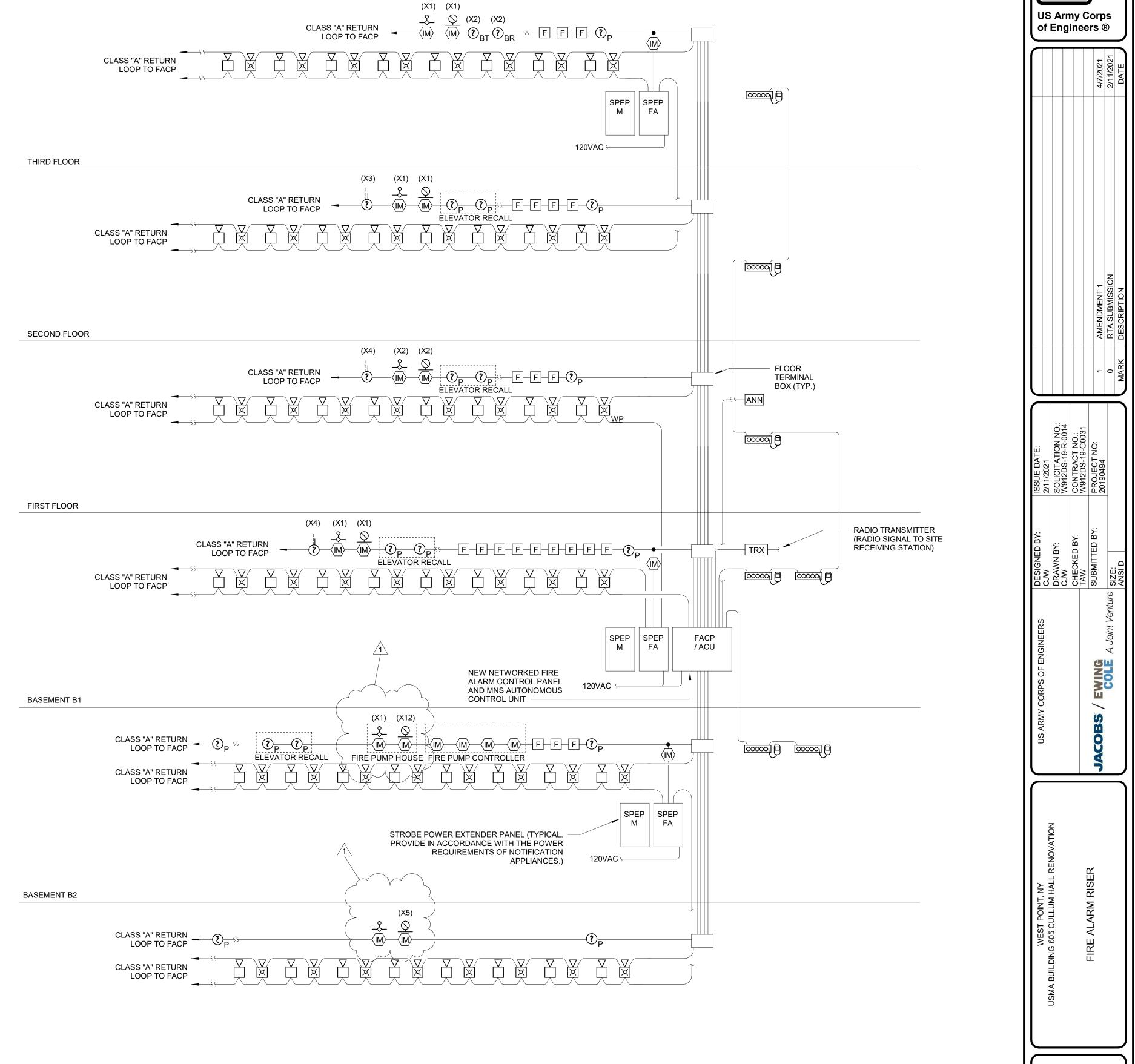






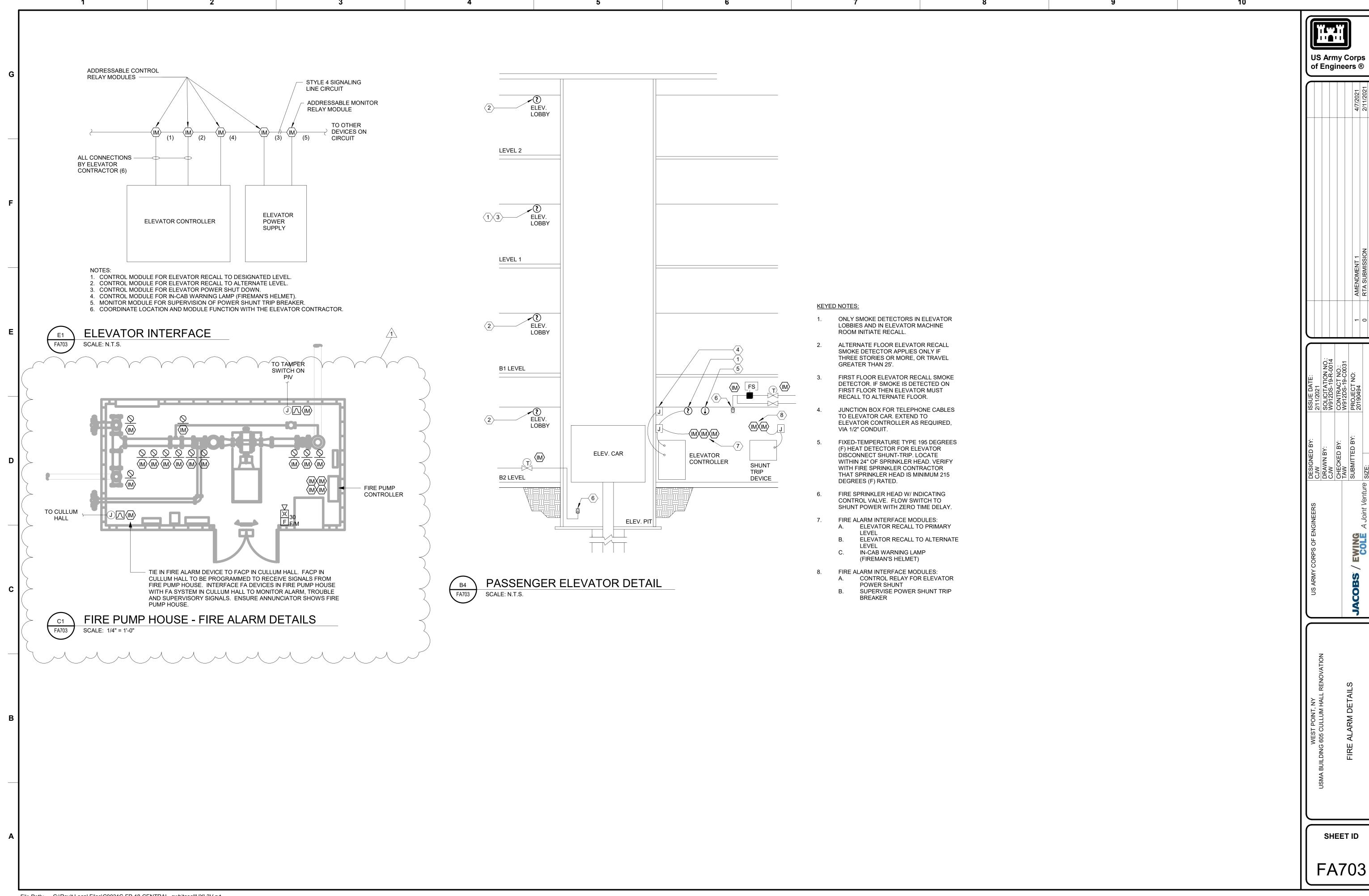


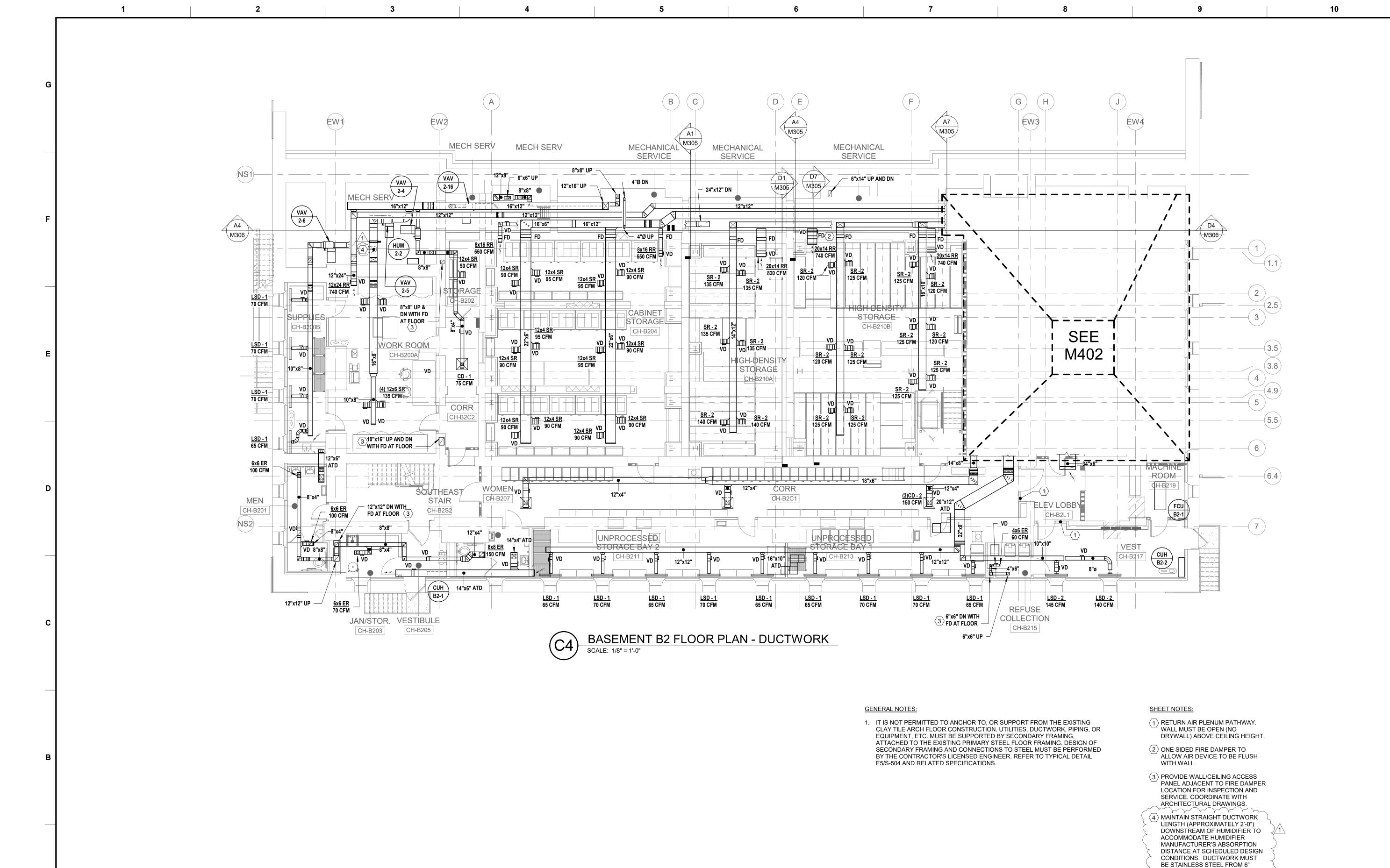
BASEMENT B3



SHEET ID

FA701





RTA SUBMISSION 2/11/2021

PLAN NORTH

SHEET ID

MH1B2

UPSTREAM OF THE HUMIDIFIER DISPERSION TUBE TO 6"

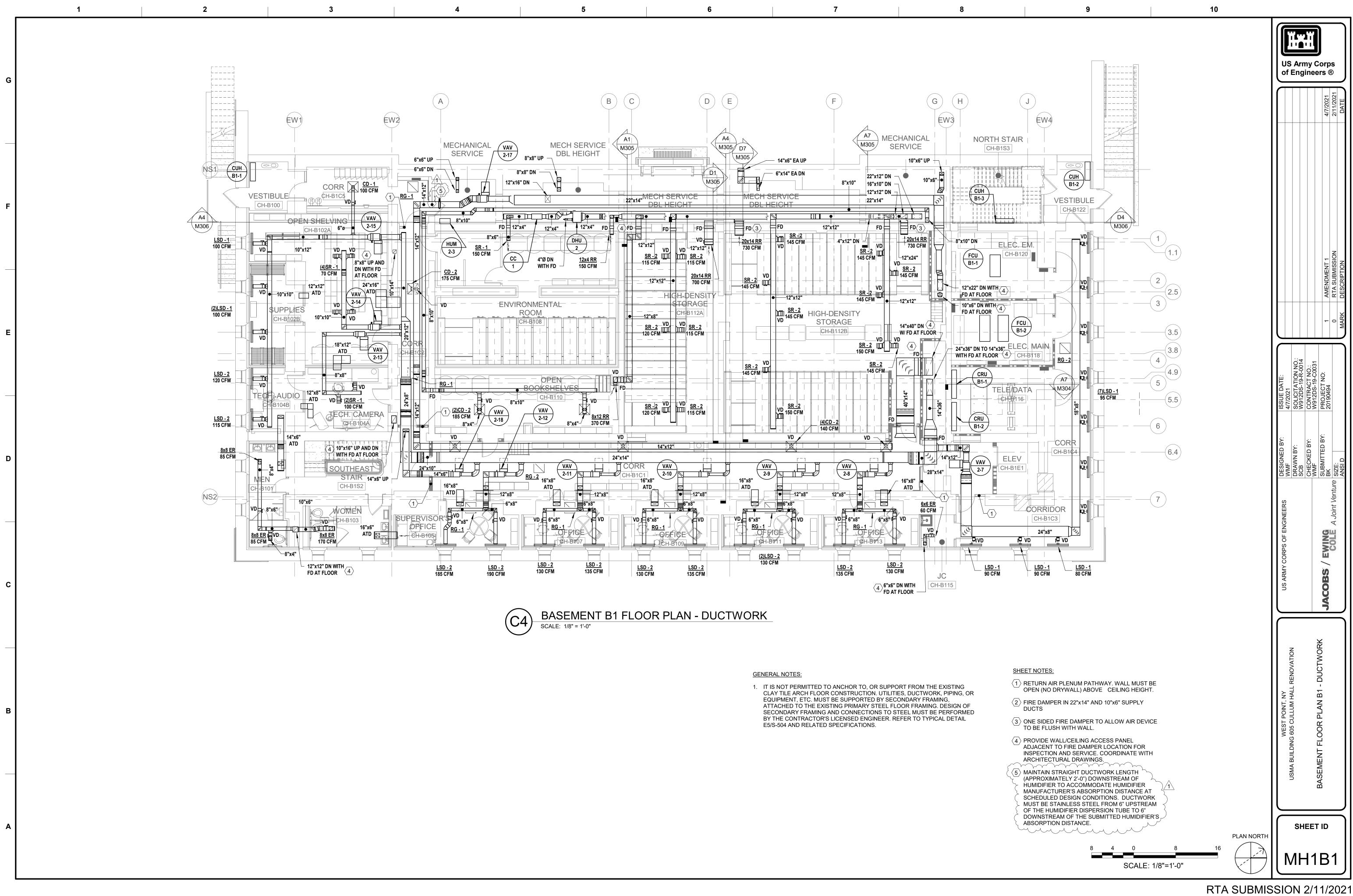
HUMIDIFIER'S ABSORPTION

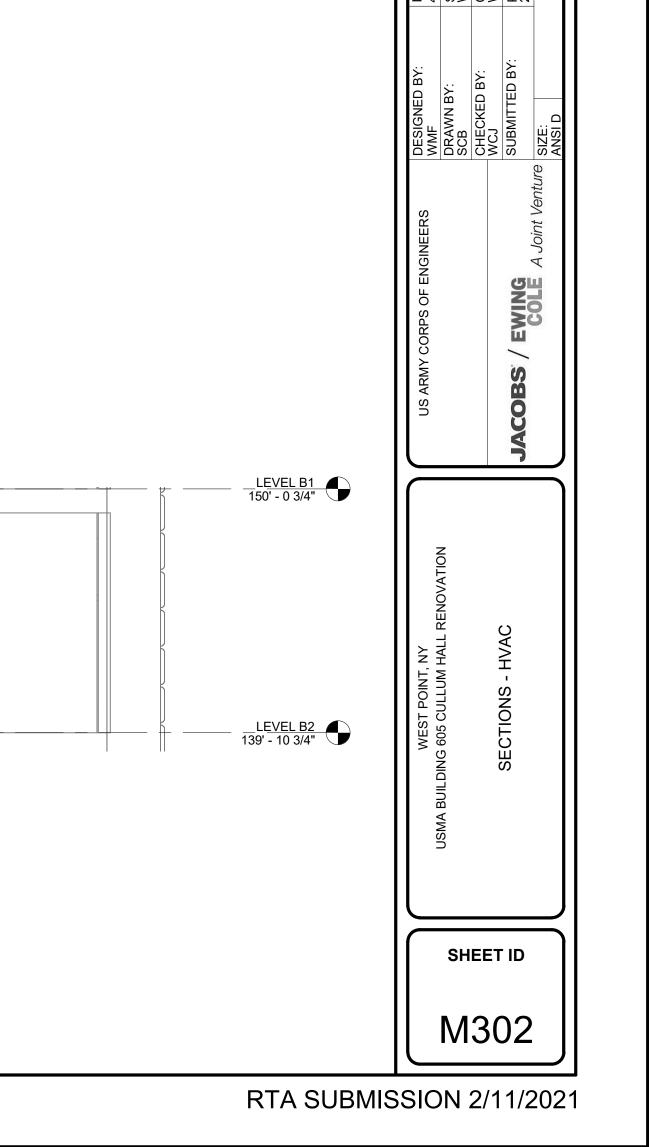
DISTANCE.

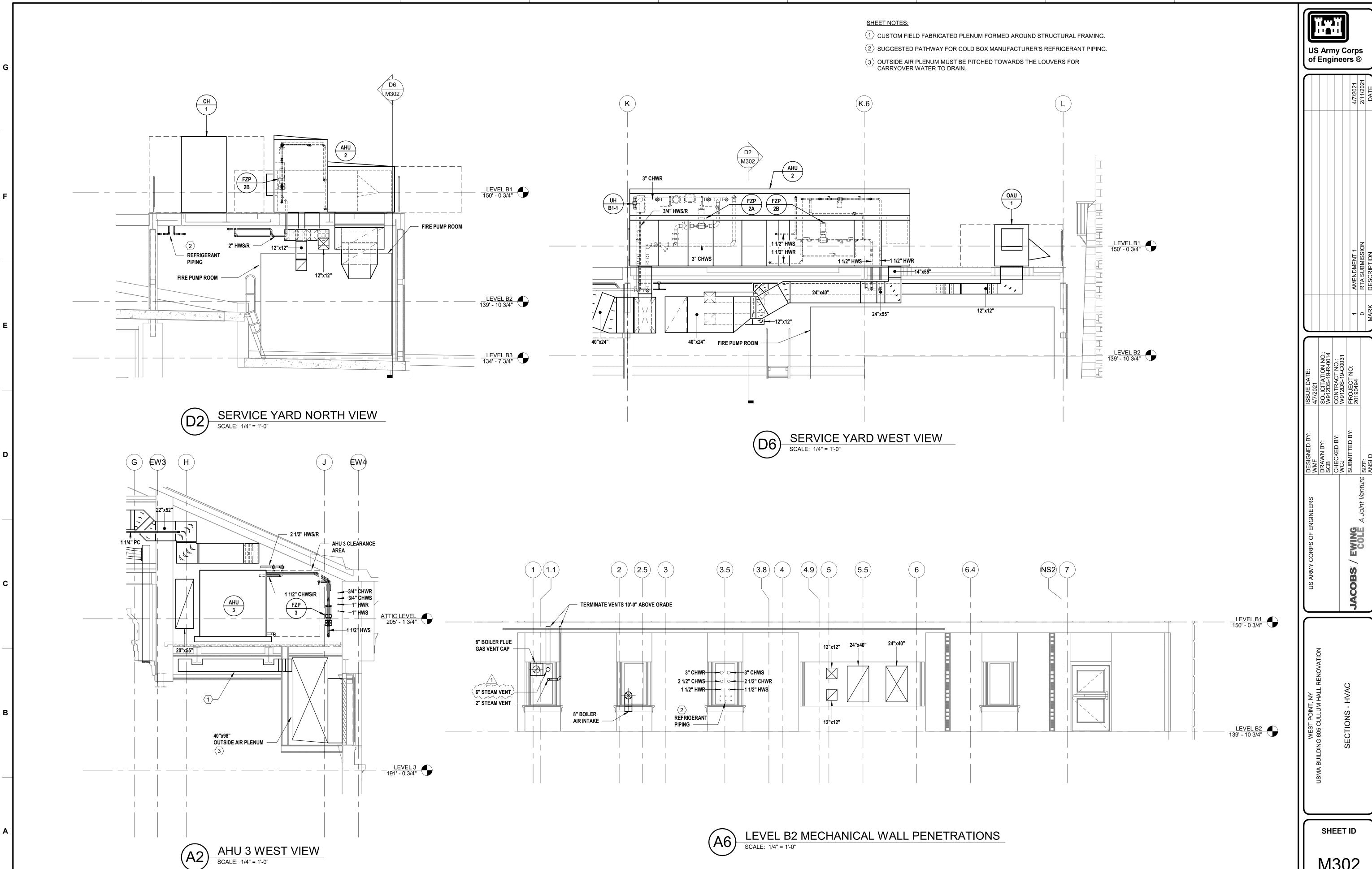
DOWNSTREAM OF THE SUBMITTED

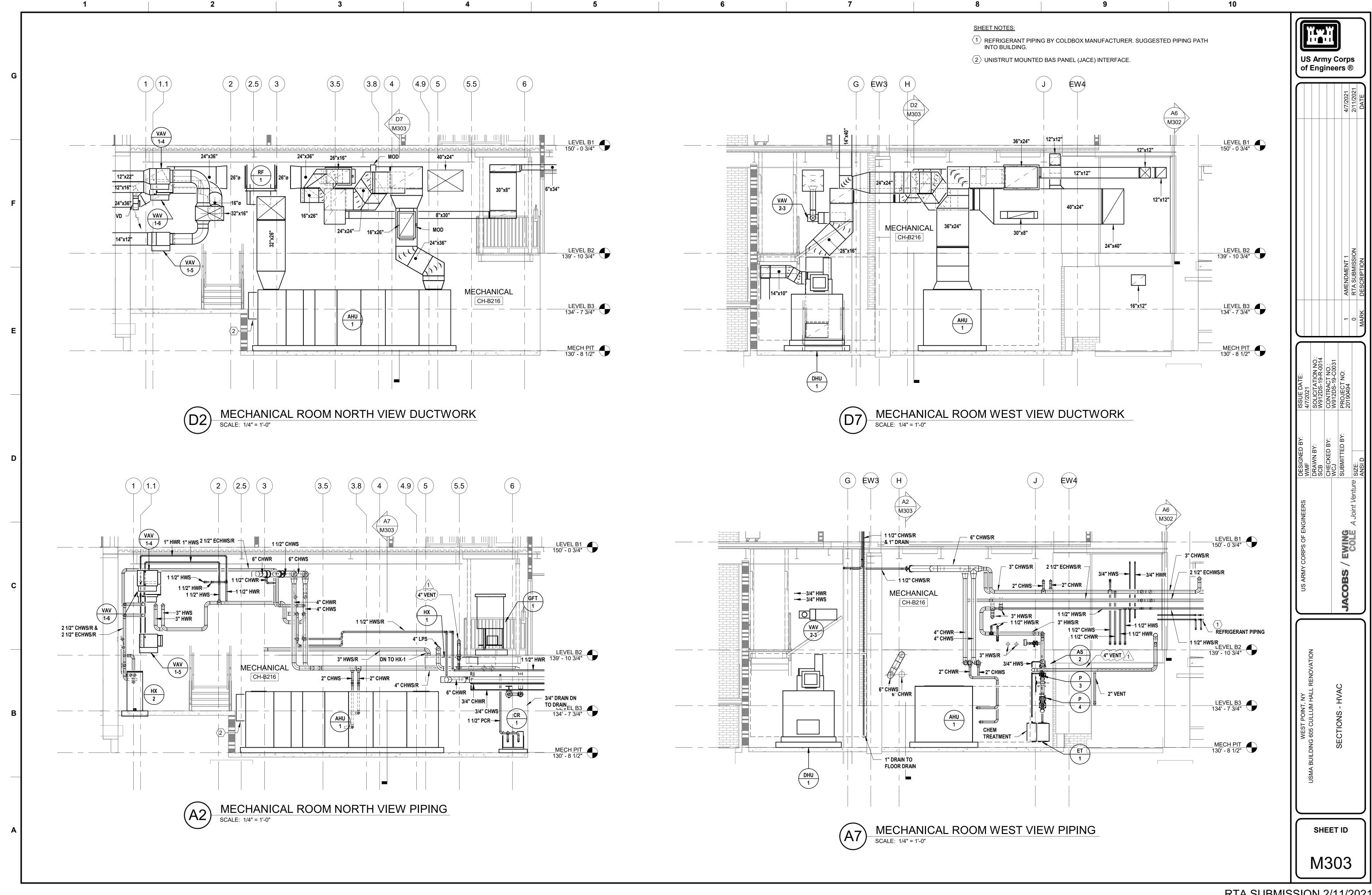
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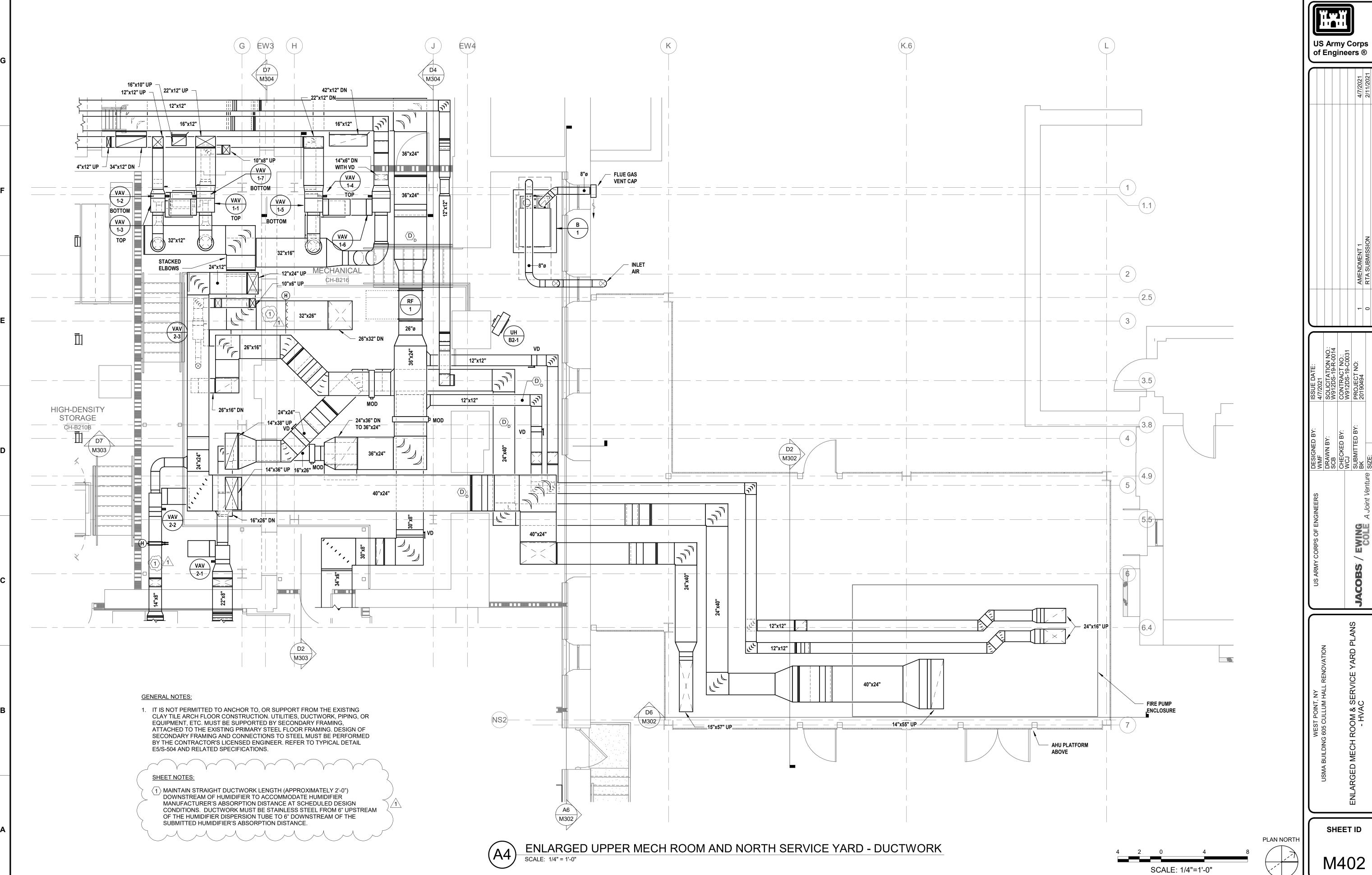
SSI 4/7/1/ SOL W91 W91

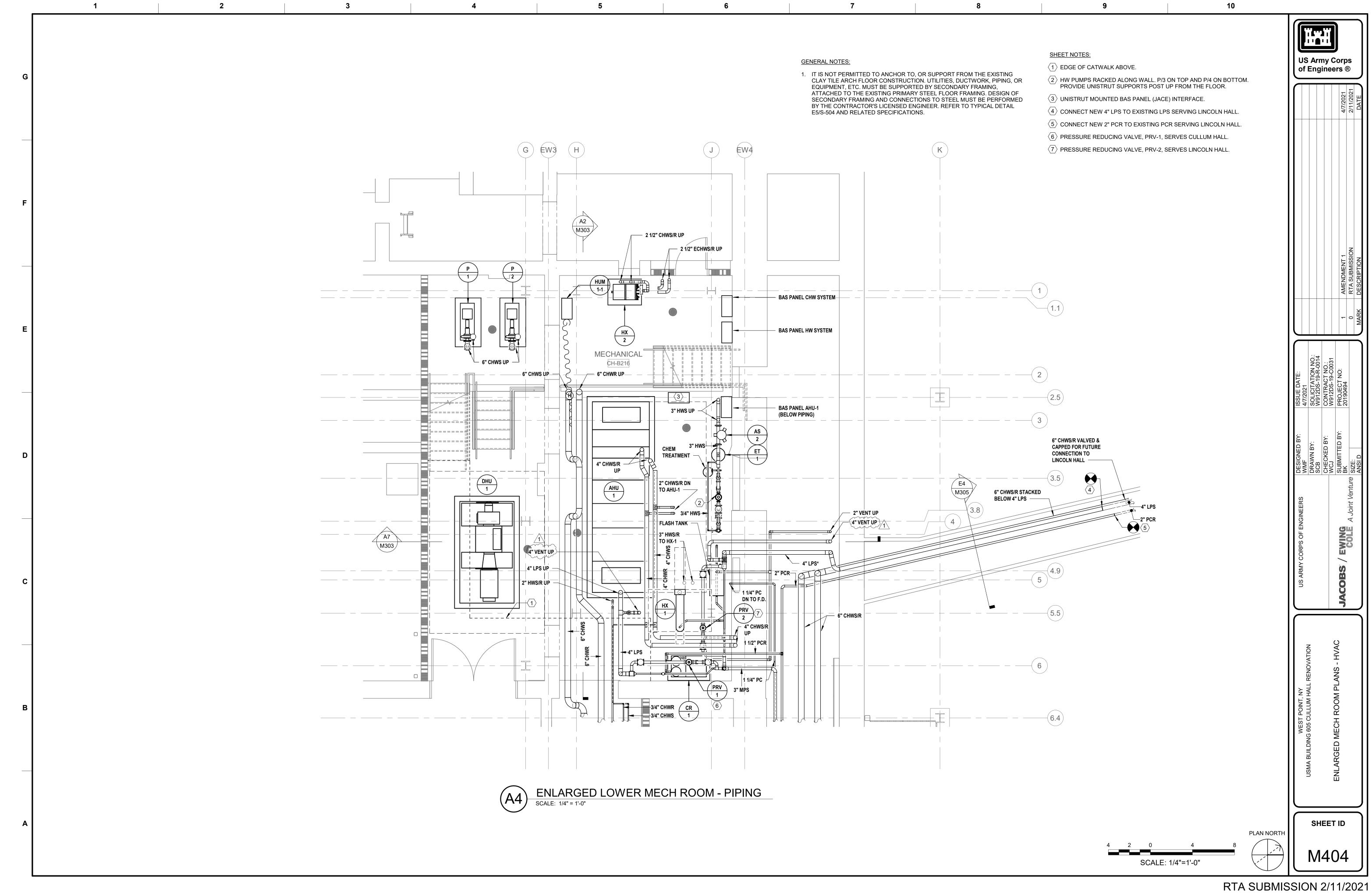


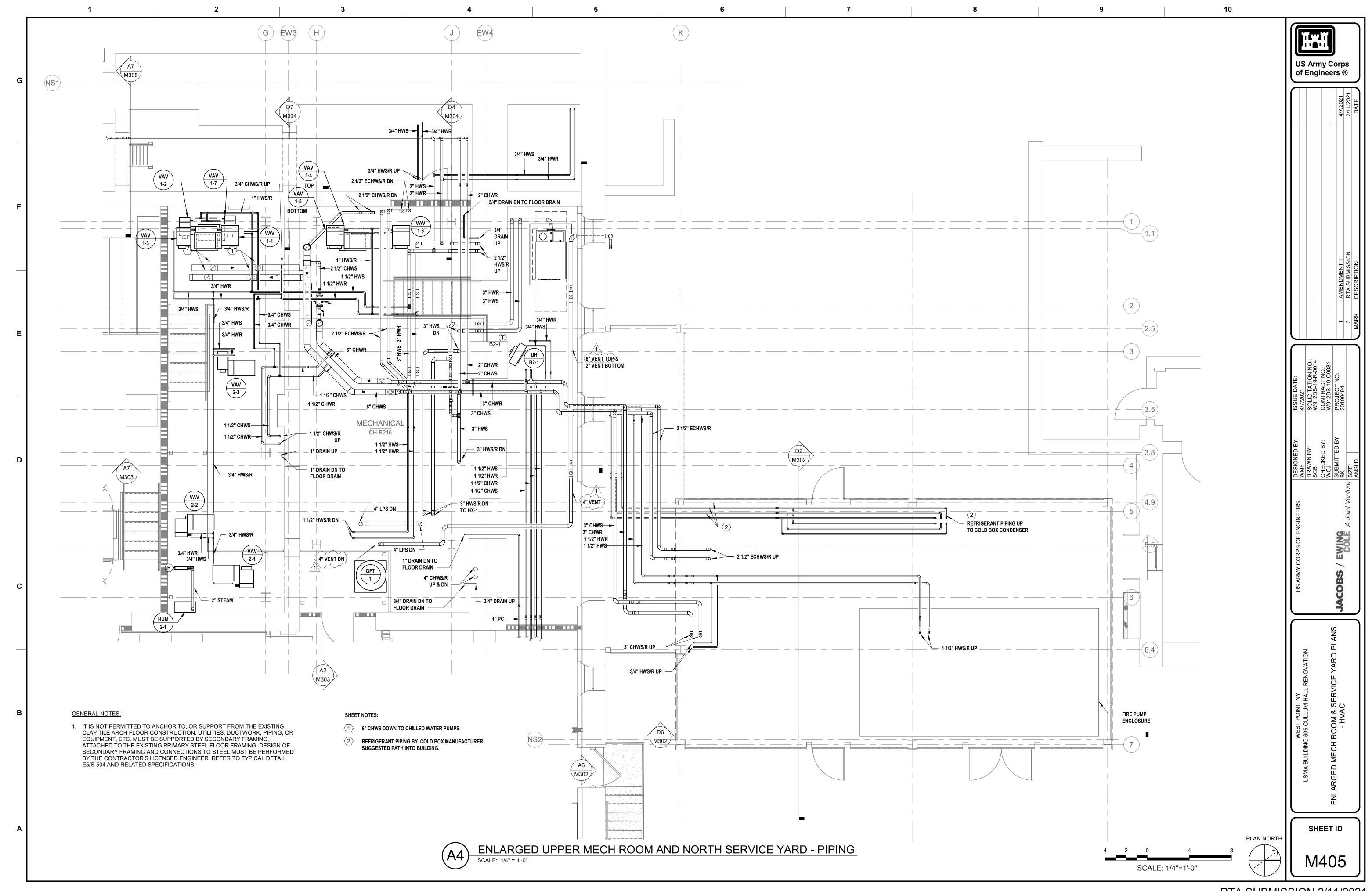












SHEET ID

M605

1. SOUND VALUES INCLUDE THE EFFECTS OF ACOUSTIC PLATES AS WELL AS ACOUSTIC BLANKETS 12. RELIEF VALVE - BASIS OF DESIGN - SPRIAX SARCO SV5708J, PROVIDE WITH DRIP PAN ELBOW AND 4 VENT ROUTED TO ATMOSPHERE.

					STEAM	M PRESSU	RE REI	DUCING ST	ATION SCI	HEDULE	
		PR	ESSURE RI	EDUCING V	'ALVE		REL	IEF VALVE			
SYMBOL	LOCATION	SIZE	FLOW	INIT.	FIN.	FLOW	SET	MIN.	ORIFICE	REMARKS	BASIS OF DESIGN
		(IN.)	LBS/HR.	PSIG	PSIG	LBS/HR.	PSIG	SIZE (IN.)	(SQ. IN.)		
PRV-1	TUNNEL	1.5	1,500	50	5	1,500	20	2	-	CULLUM; SEE NOTE 1 & 2	SPIRAX SARCO 25P (YELLOW)
PRV-2	TUNNEL	1.5	1,500	50	10	1,500	20	2	-	LINCOLN; SEE NOTE 1 & 2	SPIRAX SARCO 25P (YELLOW)

5. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

2. PROVIDE INTEGRAL CONDENSATE PUMP. 3. PROVIDE SPARE SET OF ALL FILTERS.

TYPES - EX = EXPOSED, VCAB = VERTICAL RECESSED CABINET, HCAB = HORIZONTAL CABINET.
 ALL UNITS MUST BE HORIZONTAL DISCHARGE WITH INTEGRAL FAN GUARDS.
 UNIT HEATER MUST BE CONTROLLED THROUGH THE BAS.

2. TYPES - VCAB = VERTICAL CABINET, HCAB = HORIZONTAL CABINET. 3. PROVIDE UNIT WITH HINGED VANDAL-PROOF ACCESS DOORS

8. PROVIDE ACCESSIBLE EXTENDED CABINET TO ENCLOSE ALL CUH TRIM AND ACCESSORIES.

5. UNIT HEATER MUST BE CONTROLLED THRU DDC SYSTEM. 6. PROVIDE 1" THROWAWAY FILTER FOR RETURN AIR. 7. COORDINATE WITH DOR FOR FINISHES COLOR.

9. PROVIDE SPARE SET OF ALL FILTERS. 10. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

1. AIR FLOW INCLUDES ALLOWANCES FOR ALL INTEGRAL PRESSURE DROPS (INCLUDING INTAKE AND DISCHARGE GRILLES, COILS

					U	NIT HE	ATER	SCHE	DULE (SE	E HPE S	SCHEDULE FOR	ELECTRI	CAL SERV	ICE)		
				FAN						HE	EATING CAPACITY					
SYMBOL	TYPE	LOCATION		ran			EAT		PD/	EWT	CONTR	CONTROL VALVE			REMARKS	BASIS OF DESIGN
STWIDOL	IIFL	LOCATION		HP /		MBH	LAI	GPM	F D/	LVVI	TYPE	MAX. PD	FAIL POS.	BRANCH PIPE SIZE		DASIS OF DESIGN
			CFM	WATTS	RPM		°F		FT. WG	°F	IIFE	(FT.)	FAIL FUS.	THE OIZE	(SEE NOTES 1,2,3,4,5)	
UH B2-1	EX	MECHANICAL B216	420	16W	1350	15.7	65	1.9	2.2	180	2W MOD.	7 FT.	NO	3/4"	-	TRANE S-A18

UH B1-1	EX	AHU-2 VESTIBULE	420	16W	1350	15.7	65	1.9	2.2	180	2W MOD.	7 FT.	NO	3/4"	-	TRANE S-A18

4. PROVIDE UNIT HEATER WITH INTEGRAL FAN ON-OFF AUTO SWITCH & THERMOSTAT. ON A CALL FOR HEAT THE UNIT CONTROLS MUST OPEN A SOLENOID VALVE

LOCATED UNDER UNIT COVER IN AN ACCESSIBLE LOCATION. ALL CONTROL DEVICES, TRANSFORMERS, ETC. MUST COME PRE-WIRED WITH UNIT.

				FAN (NOTE	1)						HEATING CAPA	CITY					
SYMBOL	TYPE	LOCATION		FAIN (INOTE	1)		EAT		PD/	EWT	CON	TROL VALVE		BRANCH		REMARKS	BASIS OF DESIGN
OTIMBOL	(NOTE 2)	EOOATION	CFM	HP / WATTS	RPM	MBH	°F	GPM	FT. WG	°F	TYPE	MAX. PD (FT.)	FAIL POS.	PIPE SIZE	ROWS	(SEE NOTES) 3, 6, 9, 10	BAGIO OF BEGION
CUH 1-1	HCAB	CH-103 - WOMEN	350	0.25	MEDIUM	7.2	65	0.9	3.2	180	2W MOD.	7 FT.	NO	3/4"	2	5	TRANE B04
CUH 1-2	HCAB	CH-105 - MEN	300	0.25	MEDIUM	8.2	65	1.1	3.3	180	2W MOD.	7 FT.	NO	3/4"	2	5	TRANE B04
CUH B2-1	VCAB	B205 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B2-2	VCAB	B217 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B1-1	VCAB	B100 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B1-2	VCAB	B122 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B1-3	VCAB	NW STAIR	350	58 WATTS	MEDIUM	21	65	2.7	5.5	180	-	_	_	3/4"	3	4, 7, 8	TRANE FF-B04

			С	ABINET UNIT	HEATER S	SCHED	ULE (S	SEE HP	E SCHE	DULE F	OR ELECTRICAL	SERVICE)				
				FAN (NOTE 1	1)						HEATING CAPAC	TY					
SYMBOL	TYPE	LOCATION		,	1)		EAT		PD/	EWT		ROL VALVE		BRANCH		REMARKS	BASIS OF DESIGN
OTMBOL	(NOTE 2)		CFM	HP / WATTS	RPM	MBH	°F	GPM	FT. WG		TYPE	MAX. PD (FT.)	FAIL POS.	PIPE SIZE	ROWS	(SEE NOTES) 3, 6, 9, 10	Brote of Bestern
CUH 1-1	HCAB	CH-103 - WOMEN	350	0.25	MEDIUM	7.2	65	0.9	3.2	180	2W MOD.	7 FT.	NO	3/4"	2	5	TRANE B04
CUH 1-2	HCAB	CH-105 - MEN	300	0.25	MEDIUM	8.2	65	1.1	3.3	180	2W MOD.	7 FT.	NO	3/4"	2	5	TRANE B04
CUH B2-1	VCAB	B205 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B2-2	VCAB	B217 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B1-1	VCAB	B100 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04
CUH B1-2	VCAB	B122 - VEST	350	58 WATTS	MEDIUM	16	65	2	5.5	180	-	-	-	3/4"	3	4, 7, 8	TRANE FF-B04

						СО	MPUTI	ER RO	OM AIR	COND	ITIONII	NG UNIT	SCHEDU	LE (SEE	HPE SC	HEDULE FOR I	ELECTRICA	AL SERVIC	E)							
						AN DATA								COOLI	NG COIL						REHEA ⁻	г	HUMIDI	FIED	REMARKS	
SYMBOL	TYPE	SED/ICE	LOCATION	TOTAL CEM		AN DATA		ΕΛ.	T °F	1.47	T °F	N/	DLI			CON	TROL VALVE		BBANION		KEREA	I	ПОІМІТІ	TER	REWARKS	DACIC OF DECICAL
STIVIBUL	TTPE	SERVICE	LOCATION	TOTAL CFM	ESP	MAX		EA	I F	LA	ır	IVI	BH	GPM	NOM. TONS	TYPE	MAX. PD	FAIL POS.	BRANCH PIPE SIZE		ELE	CTRIC	CAPACITY		(NOTES 1, 2, 3)	BASIS OF DESIGN
					IN. WG	KW	HP	DB	WB	DB	WB	TOT.	SENS.		TONS	TTPE	(FT.)	FAIL PUS.	FIFL SIZL	MBH	KW	STEPS	LBS/HR	TYPE		
CRU B1-1	WALL-MOUNTED	TELECOM	TELECOM	1,200	0.0	0.398	0.75	72	58.7	55.0	52.2	22.4	21.9	5.3	3	2W MOD.	7 FT.	NO	1"	20.4	5.5	2	3	STM	-	LIEBERT DME044C
CRU B1-2	WALL-MOUNTED	TELECOM	TELECOM	1,200	0.0	0.398	0.75	72	58.7	55.0	52.5\2	22.4	21.9	5.3	3	2W MOD.	7 FT.	NO	1"	20.4	5.5	2	3	STM	-	LIEBERT DME044C
NOTES:	PROVIDE UNIT WITH R	EMOTE WALL MOUNTE	D MICROPROCESSOR	CONTROL KE	YPAD.																					

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