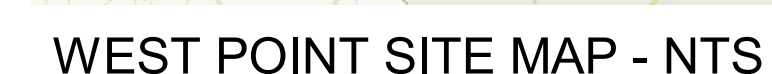



PHASE 1 BUILDINGS

SOLICITATION NO.:
CONTRACT NO.: W912DS-19-D-0010
ISSUE DATE.: DECEMBER 15, 2020
VOLUME: 1 OF 1



CAMP BUCKNER

[illegible]

 JACOBS / EWING COLE	US ARMY CORPS OF ENGINEERS		DESIGNED BY:	ISSUE DATE:
			ECC	DECEMBER 15, 2020
			DRAWN BY:	SOLICITATION NO.:
			ECC	
			CHECKED BY:	CONTRACT NO.:
			TK	W912DS-18-D-0010
		SUBMITTED BY:		
		BK		
		SIZE:		

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

COVER SHEET

SHEET ID
BLDG ID
G-001

G

F

E

D

C

B

A

SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
G-002	DRAWING LIST
G-003	EXISTING SITE PHOTOS
G-101	LIFE SAFETY CODE SUMMARY
G-102	CODE COMPLIANCE SITE PLAN
LIFE SAFETY	
LP-101	FIRST FLOOR - LIFE SAFETY PLAN
CIVIL	
C-001	GENERAL NOTES
C-002	GENERAL NOTES, LEGEND AND ABBREVIATIONS
C-101	EXISTING CONDITIONS PLAN
CD101	DEMOLITION PLAN
CS101	SITE PLAN
CS102	TRUCK ACCESS PLAN
CG101	GRADING PLAN
CG102	SOIL EROSION PLAN
CU101	UTILITY PLAN
C-501	CONSTRUCTION DETAILS
C-502	CONSTRUCTION DETAILS
C-503	CONSTRUCTION DETAILS
STRUCTURAL	
S-001	STRUCTURAL GENERAL NOTES AND INDEX SHEET
S-501	TYPICAL DETAILS
ARCHITECTURAL	
A-001	ABBREVIATIONS
A-002	GENERAL SYMBOLS AND NOTES
A-003	STANDARD MOUNTING HEIGHTS AND CLEARANCES
AD101	TYPICAL EXISTING BARRACK DEMOLITION PLAN
AD201A	TYPICAL EXISTING BARRACK DEMOLITION ELEVATIONS
AD201B	TYPICAL EXISTING BARRACK DEMOLITION ELEVATIONS
AS100	ARCHITECTURAL SITE PLAN AND DETAILS
A-101A	FIRST FLOOR PLAN - TYPICAL SLEEPING QUARTERS
A-101B	FIRST FLOOR PLAN - TYPICAL LATRINE
A-101C	EXISTING BARRACK ARMS ROOMS AND BOILER BUILDINGS
A-102	ROOF PLAN - TYPICAL SLEEPING QUARTERS
A-103	ROOF PLAN - TYPICAL LATRINE
A-111A	TYPICAL SLEEPING QUARTERS REFLECTED CEILING PLAN
A-111B	TYPICAL LATRINE REFLECTED CEILING PLAN
A-201A	TYPICAL SLEEPING QUARTERS EXTERIOR ELEVATIONS
A-201B	TYPICAL LATRINE EXTERIOR ELEVATIONS
A-301	TYPICAL BUILDING SECTIONS, WALL SECTIONS, AND WALL DETAILS
A-302	TYPICAL EXTERIOR WALL SECTIONS AND DETAILS
A-303	TYPICAL LATRINE EXTERIOR WALL DUCTWORK PENETRATION
A-304	TYPICAL LATRINE EXTERIOR WALL SECTIONS AND DETAILS
A-305	DUCTWORK ROUTING AND CEILING AXONOMETRIC AND SECTION VIEWS
A-330	TYPICAL COLUMNS AND MISC DETAILS
A-401	SLEEPING QUARTERS OFFICE - PLAN AND ELEVATIONS
A-520	TYPICAL CEILING DETAILS
A-601	PARTITION TYPES/DETAILS
A-602	PARTITION TYPES/DETAILS
A-603	DOOR AND WINDOW TYPES, SCHEDULES, AND FRAME DETAILS
A-701A	TYPICAL SLEEPING QUARTERS INTERIOR ELEVATIONS
A-701B	TYPICAL LATRINE INTERIOR ELEVATIONS
INTERIORS	
I-001	INTERIOR FINISH SCHEDULE, GENERAL NOTES & MISCELANEOUS DETAILS
I-101A	INTERIOR FINISH PLAN - TYP. SLEEPING QUARTERS
I-101B	INTERIOR FINISH PLAN - TYP. LATRINES
I-131A	INTERIOR FURNITURE PLAN - TYP. SLEEPING QUARTERS
FIRE PROTECTION	
FP-001	FIRE PROTECTION GENERAL NOTES
FP-101	FIRST FLOOR PLAN - FIRE PROTECTION
FP-701	FIRE PROTECTION DETAILS
FIRE ALARM	
FA-001	FIRE ALARM GENERAL NOTES
FA-101	FIRST FLOOR PLAN - FIRE ALARM
FA-701	FIRE ALARM DETAILS

SHEET NUMBER	SHEET NAME
PLUMBING	
P-001	PLUMBING GENERAL NOTES
PD100	TYPICAL EXISTING BARRACK DEMOLITION PLANS
P-100	TYPICAL LATRINE PLAN
P-101	TYPICAL LATRINE PLAN
P-102	BOILER BUILDING PLAN
P-500	PLUMBING DETAILS
P-601	PLUMBING SCHEDULE
P-701	DOMESTIC WATER RISER DIAGRAM
P-702	SANITARY AND VENT RISER DIAGRAM
MECHANICAL	
M-001	MECHANICAL LEGEND AND GENERAL NOTES
MD101A	TYPICAL BARRACK DEMOLITION PLAN - DUCTWORK
M-101A	TYPICAL SLEEPING BARRACK PLAN - DUCTWORK
M-101B	TYPICAL LATRINE PLAN - DUCTWORK
M-101C	TYPICAL AHU-3 SLEEPING BARRACK PLAN - DUCTWORK
M-101D	DUCTWORK PRESSURIZATION PLAN
M-501	HVAC DETAILS
M-502	HVAC DETAILS
M-503	HVAC DETAILS
M-601	HVAC SCHEDULE
M-701	CONTROLS LEGEND
M-702	HVAC CONTROL DIAGRAM
M-703	HVAC CONTROL DIAGRAM
M-704	HVAC CONTROL DIAGRAM
ELECTRICAL	
E-001	ELECTRICAL LEGEND AND GENERAL NOTES
ED101	FIRST FLOOR DEMOLITION PLAN - POWER AND LIGHTING
EP101	FIRST FLOOR PLAN - POWER
EP102	ARMS ROOMS & BOILER BLDG FLOOR PLAN - POWER
EL101	FIRST FLOOR PLAN - LIGHTING
E-501	DETAILS
E-601	ONE-LINE DIAGRAMS
E-611	PANELBOARD SCHEDULES - SLEEPING QUARTERS BARRACKS
E-612	PANELBOARD SCHEDULES - BOILER AND LATRINE BUILDINGS
EL601	LUMINAIRE SCHEDULE
TELECOMMUNICATIONS	
T-001	COMMUNICATIONS SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
TS101	TELECOMMUNICATIONS SITE PLAN
T-101	COMMUNICATIONS FLOOR PLANS AND ELEVATION
T-501	PBB BONDING DETAIL
T-601	COMMUNICATIONS ONE-LINE DIAGRAM

US Army Corps
of Engineers ®

DESIGNED BY:
ECC

DRAWN BY:
ECC

CHECKED BY:
ECC

SUBMITTED BY:
BK

ISSUE DATE:
DECEMBER 15, 2020

SOLICITATION NO.:
W912DS-19-P-0010

CONTRACT NO.:
W912DS-19-P-0010

SIZE:
ANSI D

US ARMY CORPS OF ENGINEERS

JACOBS / EWING COLE
A Joint Venture

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER





DRAWING LIST

SHEET ID
G-002



ROOM	OCCUPANCY	AREA	LOAD FACTOR	FURNITURE	LOAD
MEN	B	472	50	24	24
M. LOCKER	B	107	50	0	3
M. SHOWER	B	262	50	30	30
WOMEN	B	201	50	11	11
W. LOCKER	B	88	50	0	2
W. SHOWER	B	107	50	9	9
CORRIDOR	B	745	50	20	20
JAN	S-2	25	500	0	1
JAN	S-2	22	500		1
				TOTAL OCCUPANTS: 101	



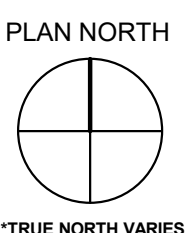
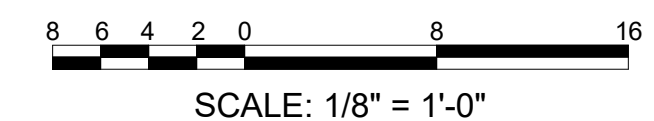
	TRAVEL DISTANCE, FT
	COMMON PATH OF TRAVEL, FT
	STARTING POINT AND TRAVEL PATH TO EXIT
	1 HOUR FIRE BARRIER



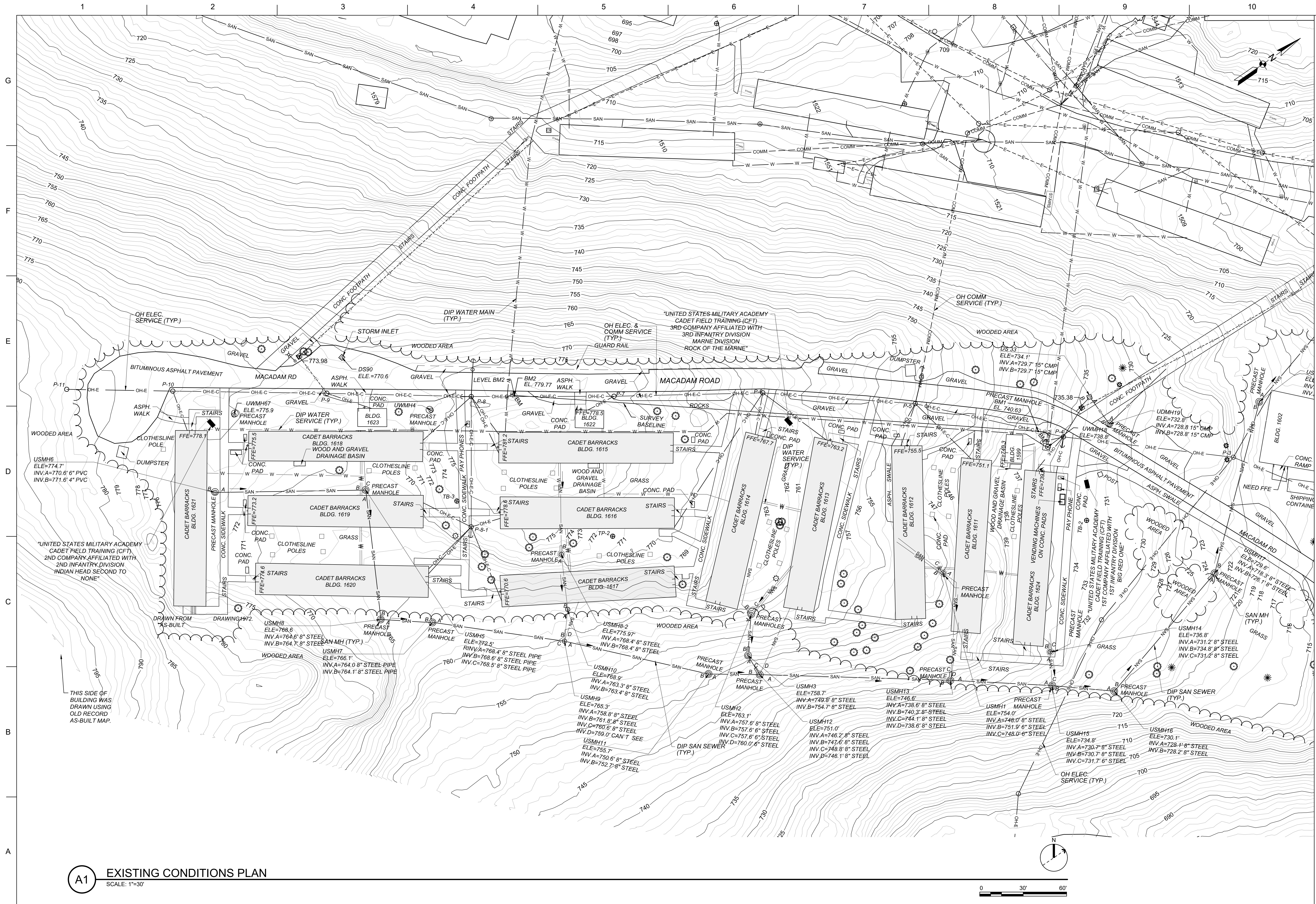
A = NO. OF OCCUPANTS USING EXIT
B = ACTUAL DOOR CLEAR WIDTH, IN
C = DOOR CAPACITY

EXIT LOCATION

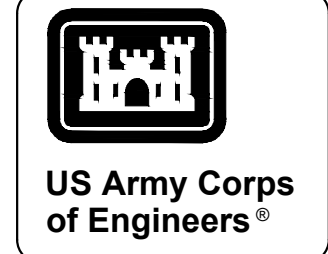
1. DOOR BETWEEN BARRACKS SHALL BE UNLOCKED AT ALL TIMES TO ACT AS A SECONDARY MEANS OF EGRESS.
2. CORRIDOR SINKS ARE PART OF ADD ALTERNATE #01. SEE ARCHITECTURAL SHEET A-101B FOR DETAILS.



	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																							
	<div>DRAINAGE & UTILITY NOTES:</div> <div><div>1. NOTIFY AND COORDINATE WITH UTILITY COMPANIES AND CONNECTIONS TO INTERIOR UTILITY SERVICES.</div><div>2. SIZE AND LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO THE INSTALLATION OF IMPROVEMENTS.</div><div>3. LOCATION OF SERVICES ARE APPROXIMATE. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE USMA DPW DIG SAFE GUIDELINES WITHIN THE PROJECT DIG SAFE PERMIT AND CONFIRM THE UTILITY LOCATIONS INDEPENDENTLY WITH THE WEST POINT DPW/CONTRACTING OFFICER PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE CONTRACTING OFFICER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT(S) PRIOR TO COMMENCEMENT OF CONSTRUCTION AND/OR THE PURCHASE OF ANY STRUCTURES.</div><div>4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN EXCAVATING AND SHALL HAND EXCAVATE AS DEEMED NECESSARY TO PROTECT SUBSURFACE UTILITIES. DAMAGE TO ANY EXISTING UTILITY RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED IN A MANNER AS APPROVED BY THE CONTRACTING OFFICER AT NO ADDITIONAL COST TO THE GOVERNMENT.</div><div>5. REFER TO ALL DRAWINGS FOR EXACT LOCATION AND SIZES OF UTILITY, ELECTRICAL, TELECOMMUNICATIONS, STORM, WATER, AND SANITARY CONNECTIONS TO THE BUILDING.</div><div>6. UTILITY MH/VALVE COVERS, RIMS, GRATES, VENTS, AND OTHER COMPONENTS WHICH ARE NOT BEING REMOVED AND ARE WITHIN AREAS OF DISTURBANCE SHALL BE RESET TO GRADE.</div><div>7. EXTREME CAUTION SHALL BE USED DURING DISTURBANCE ACTIVITIES ADJACENT TO EXISTING ON-SITE UTILITY SERVICES. PROTECT UTILITIES DURING CONSTRUCTION TO AVOID DAMAGE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IN ACCORDANCE WITH THE RESPECTIVE UTILITY PURVEYORS REQUIREMENTS AT THE SOLE EXPENSE OF THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER.</div><div>8. CONCRETE THRUST BLOCKS SHALL BE INSTALLED ON ALL WATER LINE BENDS, TEES, CROSSES, ELBOWS, VALVES, CAPS, ETC. IN ACCORDANCE WITH THE THRUST BLOCK DETAIL. IN LIEU OF THRUST BLOCK, MECHANICAL RESTRAINED JOINTS SHALL BE USED. SUBMIT DETAILS OF THE MECHANICAL JOINTS TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.</div><div>9. NEW WATER MAIN SERVICE CONNECTIONS SHALL BE DIP AND SHALL BE INSTALLED AS INDICATED ON THE CONTRACT DRAWING. DISINFECTION, HYDROSTATIC TESTING, AND BACTERIOLOGICAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH UFC / AWWA / WATER COMPANY SPECIFICATIONS.</div><div>10. ALL STORMWATER INLETS SHALL BE EQUIPPED WITH A BICYCLE SAFE ECO GRATE. STORMWATER INLETS SHALL HAVE A 6" FACE AND TYPE N CURB BOX.</div><div>11. THE GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR THIS PROJECT SHALL BE REVIEWED THOROUGHLY PRIOR TO BID SUBMISSION.</div><div>12. THE LOCATION, ELEVATION, AND SIZE OF EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE. THE FOLLOWING SHALL BE PERFORMED:<div><div>A. VERIFY THE LOCATION OF EXISTING AT GRADE AND UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION. EXCAVATE TEST PITS AS REQUIRED;</div><div>B. EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING STORM, SANITARY, POWER, COMMUNICATIONS OR WATER LINES TO PREVENT DAMAGE;</div><div>C. IMMEDIATELY REPAIR ANY DAMAGE TO THE EXISTING UTILITIES RESULTING FROM CONSTRUCTION AT NO ADDITIONAL COST TO THE GOVERNMENT.</div><div>D. MAINTAIN UTILITIES IN ACTIVE OPERATION AT ALL TIMES UNLESS THEY ARE TO BE ABANDONED OR REMOVED;</div><div>E. THOROUGHLY REVIEW ALL ARCHITECTURAL/UTILITY-RELATED PLANS ASSOCIATED WITH THIS PROJECT FOR CONFLICTS OR DISCREPANCIES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.</div><div>F. NOTIFY AND OBTAIN APPROVALS FROM UTILITY COMPANY/WEST POINT DPW/CONTRACTING OFFICER, PRIOR TO PERFORMING WORK WITHIN AN EASEMENT.</div><div>G. UTILITIES THAT ARE TO BE ABANDONED/REMOVED SHALL REQUIRE REVIEW AND APPROVAL BY THE CONTRACTING OFFICER FOR THE CONTINUED SERVICES ADJACENT TO THE CONTRACT WORK.</div></div></div><div>13. REMOVE 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.</div><div>14. PERFORM WORK IN A SAFE AND CAUTIOUS MANNER IN ACCORDANCE WITH EM 385-1-1.</div><div>15. REINFORCING STEEL WITHIN PRE-CAST STRUCTURES SHALL BE DESIGNED BY THE STRUCTURE MANUFACTURER. REINFORCING STEEL WITHIN POURED-IN-PLACE DRAINAGE STRUCTURES SHALL BE DESIGNED BY A NYS LICENSED ENGINEER AND SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A NYS LICENSED ENGINEER AND SUBMITTED FOR REVIEW AND APPROVAL.</div><div>16. SANITARY SEWER PIPE SHALL BE DIP ABOVE OR BELOW GRADE AND SHALL BE TESTED FOR COMPLIANCE WITH ASTM STANDARDS FOR INFILTRATION/EXFILTRATION.</div><div>17. CONFIRM ALL PIPE SIZES AND QUANTITIES PRIOR TO PURCHASE OF ANY MATERIALS.</div><div>18. DEWATER TRENCHES AS REQUIRED FOR INSTALLATION OF THE IMPROVEMENTS. THE CONTRACTOR MUST MAINTAIN THE WATER TABLE 2-FEET BELOW THE BOTTOM OF TRENCH.</div><div>19. EXISTING STORM PIPING TO REMAIN, SHALL BE CLEANED TO THE NEAREST INLET / MANHOLE AND/OR DISCHARGE POINT, AS APPLICABLE.</div><div>20. ALL UTILITY PIPING TO BE DEMOLISHED SHALL BE REMOVED FROM GOVERNMENT PROPERTY.</div><div>21. PRE-CAST CONCRETE STRUCTURES SHALL BE DESIGNED BY THE MANUFACTURER FOR HS-25 LOADING. CERTIFIED SHOP DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.</div><div>22. ALL UTILITY POLES AND OVERHEAD SERVICE SHALL BE SUPPLIED AND INSTALLED BY CITY LIGHT AND POWER (CLP) UNDER A SEPARATE CONTRACT.</div><div>23. DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY UNEXPECTED UTILITY OR STRUCTURE INTERFERENCE.</div><div>24. ALL ABOVE GRADE AND BELOW GRADE DIP SHALL BE RESTRAIN TYPE, MECHANICAL JOINT PIPE, WITH RESTRAINING GASKETS.</div><div>25. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF THE ELECTRIC SERVICE TO EACH HVAC UNIT. ELECTRIC SERVICE TO BE MOUNTED TO UNDERSIDE OF BARRACKS FROM BUILDING TO CONCRETE PAD.</div><div>26. ALL PROPOSED UTILITIES SHALL REPLACE THE EXISTING UTILITIES IN-KIND. ALL PROPOSED BELOW GRADE UTILITIES SHALL BE INSTALLED WITHIN THE SAME TRENCH AS THE REMOVED EXISTING UTILITY AND TO THE SAME DEPTH AS THE EXISTING UTILITY.</div><div>27. ALL ABOVE GRADE UTILITIES SHALL BE INSTALLED ON PIPE SUPPORTS, MINIMUM TWO SUPPORTS PER PIPE. THE SUPPORTS SHALL BE PLACED AT A LOCATION TO ALLOW FOR SUPPORT OF THE ENTIRE LENGTH OF PIPE IF DISCONNECTED FROM THE SYSTEM.</div><div>28. PROPOSED PIPE IN NEW TRENCH SHALL BE INSTALLED TO A DEPTH OF 2.5' FROM PROPOSED GRADE TO TOP OF PIPE.</div><div>29. AN OPENING SHALL BE CUT THROUGH THE CHAIN LINK FENCE FABRIC THAT SURROUNDS THE HVAC PADS TO ACCOMMODATE THE DUCTWORK INTO THE BUILDING. THE FENCING SHALL BE NEATLY CUT WITH NO GAP BETWEEN THE FENCE FABRIC AND DUCTWORK.</div><div>30. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW YORK, TO DESIGN THE PIPE SUPPORT FOUNDATION AND STRUT SUPPORT SYSTEM. THE SUPPORT SHALL BE DESIGNED TO ACCOMMODATE THE WEIGHT OF ALL MATERIAL BEING SUPPORTED. PIPES THAT ARE SUPPORTED SHALL BE ASSUMED FLOWING FULL. SHOP DRAWINGS OF THE SUPPORTS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.</div></div>				<div>LEGEND</div> <table><thead><tr><th>ITEM</th><th>EXISTING</th><th>PROPOSED</th></tr></thead><tbody><tr><td>ADD ALT DESIGNATION AREA</td><td></td><td></td></tr><tr><td>CURB</td><td></td><td></td></tr><tr><td>EDGE OF PAVEMENT</td><td></td><td></td></tr><tr><td>UNDERGROUND ELECTRIC LINE</td><td></td><td></td></tr><tr><td>UNDERGROUND COMMUNICATION LINE</td><td></td><td></td></tr><tr><td>OVERHEAD COMMUNICATION & ELECTRIC LINE</td><td></td><td></td></tr><tr><td>CENTER LINE</td><td></td><td></td></tr><tr><td>OVERHEAD WIRES</td><td></td><td></td></tr><tr><td>GAS MAIN</td><td></td><td></td></tr><tr><td>FENCE</td><td></td><td></td></tr><tr><td>LIMIT OF DISTURBANCE</td><td></td><td></td></tr><tr><td>SILT SOCK</td><td></td><td></td></tr><tr><td>MAJOR CONTOURS</td><td></td><td></td></tr><tr><td>MINOR CONTOURS</td><td></td><td></td></tr><tr><td>SANITARY SEWER LINE</td><td></td><td></td></tr><tr><td>STORM SEWER LINE</td><td></td><td></td></tr><tr><td>WATER LINE</td><td></td><td></td></tr><tr><td>FIRE ALARM</td><td></td><td></td></tr><tr><td>BENCHMARK</td><td></td><td></td></tr><tr><td>WATER STRUCTURE</td><td></td><td></td></tr><tr><td>STOCKPILE</td><td></td><td></td></tr><tr><td>CONCRETE (POURED IN PLACE)</td><td></td><td></td></tr><tr><td>UTILITY POLE</td><td></td><td></td></tr><tr><td>SANITARY MANHOLE</td><td></td><td></td></tr><tr><td>STORM INLET</td><td></td><td></td></tr><tr><td>INLET PROTECTION</td><td></td><td></td></tr></tbody></table>				ITEM	EXISTING	PROPOSED	ADD ALT DESIGNATION AREA			CURB			EDGE OF PAVEMENT			UNDERGROUND ELECTRIC LINE			UNDERGROUND COMMUNICATION LINE			OVERHEAD COMMUNICATION & ELECTRIC LINE			CENTER LINE			OVERHEAD WIRES			GAS MAIN			FENCE			LIMIT OF DISTURBANCE			SILT SOCK			MAJOR CONTOURS			MINOR CONTOURS			SANITARY SEWER LINE			STORM SEWER LINE			WATER LINE			FIRE ALARM			BENCHMARK			WATER STRUCTURE			STOCKPILE			CONCRETE (POURED IN PLACE)			UTILITY POLE			SANITARY MANHOLE			STORM INLET			INLET PROTECTION			<div>LIST OF ABBREVIATIONS</div> <table><thead><tr><th></th><th>AMERICAN SOCIETY FOR TESTING AND MATERIALS</th></tr></thead><tbody><tr><td>ASTM</td><td>AMERICAN SOCIETY FOR TESTING AND MATERIALS</td></tr><tr><td>BIT.</td><td>BITUMINOUS</td></tr><tr><td>BLDG</td><td>BUILDING</td></tr><tr><td>CB</td><td>CATCH BASIN</td></tr><tr><td>CLF</td><td>CHAIN LINK FENCE</td></tr><tr><td>CO</td><td>CLEAN OUT</td></tr><tr><td>COMM</td><td>COMMUNICATION</td></tr><tr><td>CONC</td><td>CONCRETE</td></tr><tr><td>DC</td><td>DEPRESSED CURB</td></tr><tr><td>DGA</td><td>DENSE GRADED AGGREGATE</td></tr><tr><td>DIA.</td><td>DIAMETER</td></tr><tr><td>DIP</td><td>DUCTILE IRON PIPE</td></tr><tr><td>DIM.</td><td>DIMENSION</td></tr><tr><td>DMH</td><td>DRAINAGE MANHOLE</td></tr><tr><td>DPW</td><td>DIRECTORATE OF PUBLIC WORKS</td></tr><tr><td>DWG</td><td>DRAWING</td></tr><tr><td>EA</td><td>EACH</td></tr><tr><td>ELEC.</td><td>ELECTRIC</td></tr><tr><td>EL./ELEV.</td><td>ELEVATION</td></tr><tr><td>EOP</td><td>EDGE OF PAVEMENT</td></tr><tr><td>EX./EXIST.</td><td>EXISTING</td></tr><tr><td>FES</td><td>FLARED END SECTION</td></tr><tr><td>FFE</td><td>FINISHED FLOOR ELEVATION</td></tr><tr><td>GR</td><td>GRATE</td></tr><tr><td>HDPE</td><td>HIGH DENSITY POLYETHYLENE</td></tr><tr><td>HP</td><td>HIGH POINT</td></tr><tr><td>HW</td><td>HOT WATER</td></tr><tr><td>INV.</td><td>INVERT</td></tr><tr><td>LF</td><td>LINEAR FEET</td></tr><tr><td>LOD</td><td>LIMIT OF DISTURBANCE</td></tr><tr><td>MAX.</td><td>MAXIMUM</td></tr><tr><td>MH</td><td>MANHOLE</td></tr><tr><td>MIN.</td><td>MINIMUM</td></tr><tr><td>NYSDEC</td><td>NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION</td></tr><tr><td>O.C.</td><td>ON CENTER</td></tr><tr><td>OH</td><td>OVERHEAD</td></tr><tr><td>OD</td><td>OUTSIDE DIAMETER</td></tr><tr><td>PROP.</td><td>PROPOSED</td></tr><tr><td>PSI</td><td>POUNDS PER SQUARE INCH</td></tr><tr><td>PVC</td><td>POLYVINYL CHLORIDE</td></tr><tr><td>R</td><td>RADIUS</td></tr><tr><td>RCP</td><td>REINFORCED CONCRETE PIPE</td></tr><tr><td>REQ'D</td><td>REQUIRED</td></tr><tr><td>SAN</td><td>SANITARY</td></tr><tr><td>SDR</td><td>STANDARD DIMENSION RATIO</td></tr><tr><td>SF</td><td>SQUARE FEET</td></tr><tr><td>SMH</td><td>SANITARY MANHOLE</td></tr><tr><td>STA.</td><td>STATION</td></tr><tr><td>TBR</td><td>TO BE REMOVED</td></tr><tr><td>TC</td><td>TOP OF CURB</td></tr><tr><td>TW</td><td>TOP OF WALL</td></tr><tr><td>TYP.</td><td>TYPICAL</td></tr><tr><td>UFC</td><td>UNIFIED FACILITIES CRITERIA</td></tr><tr><td>USMA</td><td>UNITED STATES MILITARY ACADEMY</td></tr><tr><td>W/</td><td>WITH</td></tr><tr><td>WWF</td><td>WELDED WIRE FABRIC</td></tr></tbody></table>					AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	BIT.	BITUMINOUS	BLDG	BUILDING	CB	CATCH BASIN	CLF	CHAIN LINK FENCE	CO	CLEAN OUT	COMM	COMMUNICATION	CONC	CONCRETE	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	EOP	EDGE OF PAVEMENT	EX./EXIST.	EXISTING	FES	FLARED END SECTION	FFE	FINISHED FLOOR ELEVATION	GR	GRATE	HDPE	HIGH DENSITY POLYETHYLENE	HP	HIGH POINT	HW	HOT WATER	INV.	INVERT	LF	LINEAR FEET	LOD	LIMIT OF DISTURBANCE	MAX.	MAXIMUM	MH	MANHOLE	MIN.	MINIMUM	NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	O.C.	ON CENTER	OH	OVERHEAD	OD	OUTSIDE DIAMETER	PROP.	PROPOSED	PSI	POUNDS PER SQUARE INCH	PVC	POLYVINYL CHLORIDE	R	RADIUS	RCP	REINFORCED CONCRETE PIPE	REQ'D	REQUIRED	SAN	SANITARY	SDR	STANDARD DIMENSION RATIO	SF	SQUARE FEET	SMH	SANITARY MANHOLE	STA.	STATION	TBR	TO BE REMOVED	TC	TOP OF CURB	TW	TOP OF WALL	TYP.	TYPICAL	UFC	UNIFIED FACILITIES CRITERIA	USMA	UNITED STATES MILITARY ACADEMY	W/	WITH	WWF	WELDED WIRE FABRIC	<div><div><div><div><div>US Army Corps of Engineers®</div><div></div></div><div><div>ISSUE DATE: DECEMBER 15, 2020</div><div>DESIGNED BY: JK</div><div>DRAWN BY: ANS</div><div>CHECKED BY: KAC</div><div>SUBMITTED BY: JAC</div><div>SIZE: A</div></div><div><div>SOLICITATION NO.: W912DS-19-D-0010</div><div>CONTRACT NO.: W912DS-19-D-0010</div></div></div><div><div>U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY</div><div><div>JACOBS / EWING COLE</div><div>A Joint Venture</div></div></div></div><div><div>WEST POINT, NY REVITALIZATION OF CAMP BUCKNER</div><div>CIVIL GENERAL NOTES, LEGEND AND ABBREVIATIONS</div></div><div><div>SHEET IDENTIFICATION</div><div>C-002</div></div></div>	
ITEM	EXISTING	PROPOSED																																																																																																																																																																																																															
ADD ALT DESIGNATION AREA																																																																																																																																																																																																																	
CURB																																																																																																																																																																																																																	
EDGE OF PAVEMENT																																																																																																																																																																																																																	
UNDERGROUND ELECTRIC LINE																																																																																																																																																																																																																	
UNDERGROUND COMMUNICATION LINE																																																																																																																																																																																																																	
OVERHEAD COMMUNICATION & ELECTRIC LINE																																																																																																																																																																																																																	
CENTER LINE																																																																																																																																																																																																																	
OVERHEAD WIRES																																																																																																																																																																																																																	
GAS MAIN																																																																																																																																																																																																																	
FENCE																																																																																																																																																																																																																	
LIMIT OF DISTURBANCE																																																																																																																																																																																																																	
SILT SOCK																																																																																																																																																																																																																	
MAJOR CONTOURS																																																																																																																																																																																																																	
MINOR CONTOURS																																																																																																																																																																																																																	
SANITARY SEWER LINE																																																																																																																																																																																																																	
STORM SEWER LINE																																																																																																																																																																																																																	
WATER LINE																																																																																																																																																																																																																	
FIRE ALARM																																																																																																																																																																																																																	
BENCHMARK																																																																																																																																																																																																																	
WATER STRUCTURE																																																																																																																																																																																																																	
STOCKPILE																																																																																																																																																																																																																	
CONCRETE (POURED IN PLACE)																																																																																																																																																																																																																	
UTILITY POLE																																																																																																																																																																																																																	
SANITARY MANHOLE																																																																																																																																																																																																																	
STORM INLET																																																																																																																																																																																																																	
INLET PROTECTION																																																																																																																																																																																																																	
	AMERICAN SOCIETY FOR TESTING AND MATERIALS																																																																																																																																																																																																																
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS																																																																																																																																																																																																																
BIT.	BITUMINOUS																																																																																																																																																																																																																
BLDG	BUILDING																																																																																																																																																																																																																
CB	CATCH BASIN																																																																																																																																																																																																																
CLF	CHAIN LINK FENCE																																																																																																																																																																																																																
CO	CLEAN OUT																																																																																																																																																																																																																
COMM	COMMUNICATION																																																																																																																																																																																																																
CONC	CONCRETE																																																																																																																																																																																																																
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																																																																																																																																																																																																																
EOP	EDGE OF PAVEMENT																																																																																																																																																																																																																
EX./EXIST.	EXISTING																																																																																																																																																																																																																
FES	FLARED END SECTION																																																																																																																																																																																																																
FFE	FINISHED FLOOR ELEVATION																																																																																																																																																																																																																
GR	GRATE																																																																																																																																																																																																																
HDPE	HIGH DENSITY POLYETHYLENE																																																																																																																																																																																																																
HP	HIGH POINT																																																																																																																																																																																																																
HW	HOT WATER																																																																																																																																																																																																																
INV.	INVERT																																																																																																																																																																																																																
LF	LINEAR FEET																																																																																																																																																																																																																
LOD	LIMIT OF DISTURBANCE																																																																																																																																																																																																																
MAX.	MAXIMUM																																																																																																																																																																																																																
MH	MANHOLE																																																																																																																																																																																																																
MIN.	MINIMUM																																																																																																																																																																																																																
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION																																																																																																																																																																																																																
O.C.	ON CENTER																																																																																																																																																																																																																
OH	OVERHEAD																																																																																																																																																																																																																
OD	OUTSIDE DIAMETER																																																																																																																																																																																																																
PROP.	PROPOSED																																																																																																																																																																																																																
PSI	POUNDS PER SQUARE INCH																																																																																																																																																																																																																
PVC	POLYVINYL CHLORIDE																																																																																																																																																																																																																
R	RADIUS																																																																																																																																																																																																																
RCP	REINFORCED CONCRETE PIPE																																																																																																																																																																																																																
REQ'D	REQUIRED																																																																																																																																																																																																																
SAN	SANITARY																																																																																																																																																																																																																
SDR	STANDARD DIMENSION RATIO																																																																																																																																																																																																																
SF	SQUARE FEET																																																																																																																																																																																																																
SMH	SANITARY MANHOLE																																																																																																																																																																																																																
STA.	STATION																																																																																																																																																																																																																
TBR	TO BE REMOVED																																																																																																																																																																																																																
TC	TOP OF CURB																																																																																																																																																																																																																
TW	TOP OF WALL																																																																																																																																																																																																																
TYP.	TYPICAL																																																																																																																																																																																																																
UFC	UNIFIED FACILITIES CRITERIA																																																																																																																																																																																																																
USMA	UNITED STATES MILITARY ACADEMY																																																																																																																																																																																																																
W/	WITH																																																																																																																																																																																																																
WWF	WELDED WIRE FABRIC																																																																																																																																																																																																																



A1 EXISTING CONDITIONS PLAN
SCALE: 1"=30'



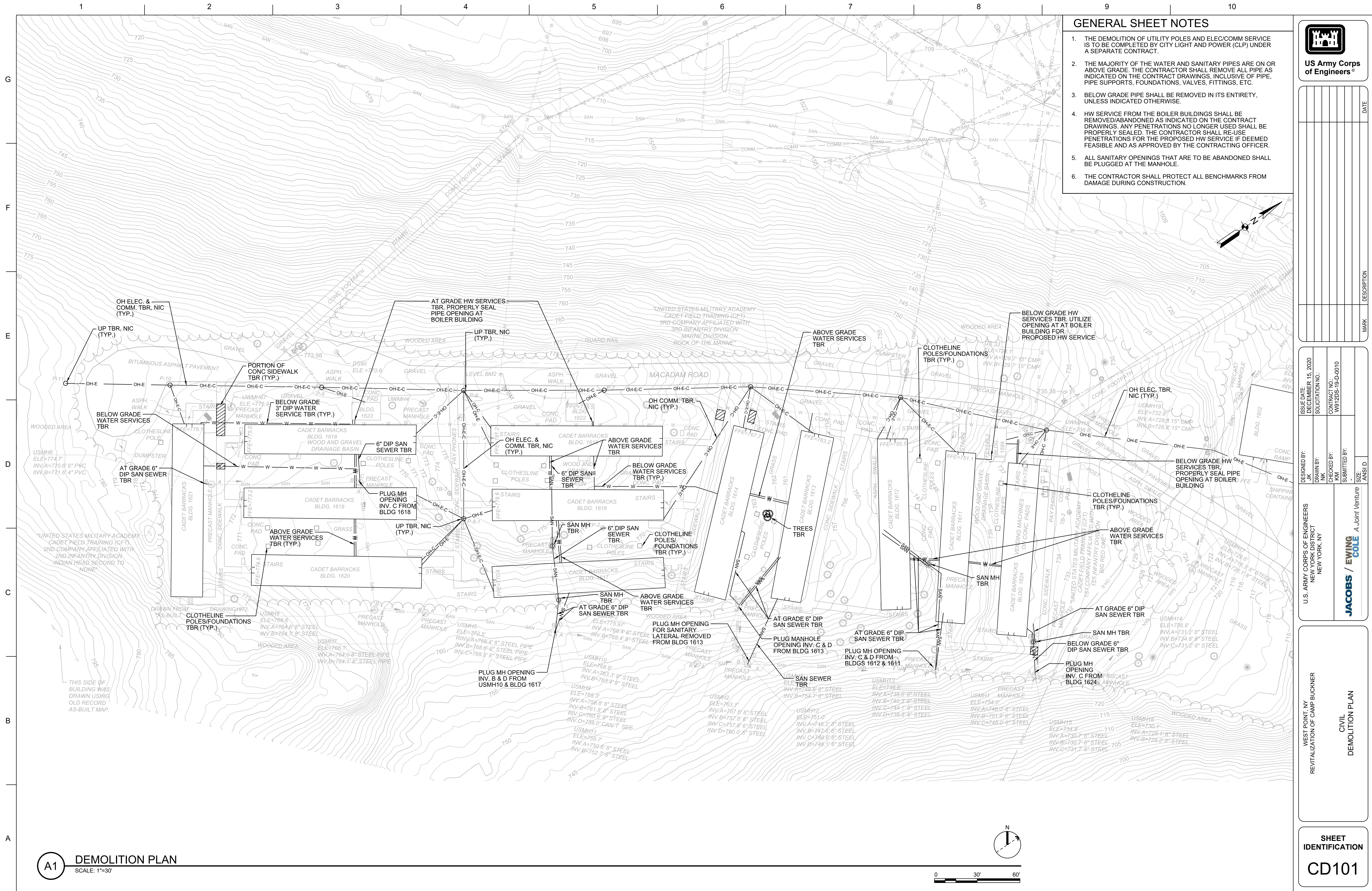
DATE
MARK
DESCRIPTION

DESIGNED BY: JK	ISSUE DATE: DECEMBER 15, 2020
DRAWN BY: KAC	SOLICITATION NO.: W912DS-19-D-0010
CHECKED BY: KAC	CONTRACT NO.: W912DS-19-D-0010
SUBMITTED BY: ANSI D	

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	JACOBS / EWING COLE A Joint Venture
---	---

WEST POINT, NY REVITALIZATION OF CAMP BUCKER	CIVIL EXISTING CONDITIONS PLAN
---	-----------------------------------


SHEET IDENTIFICATION C-101





**Army Corps
Engineers®**

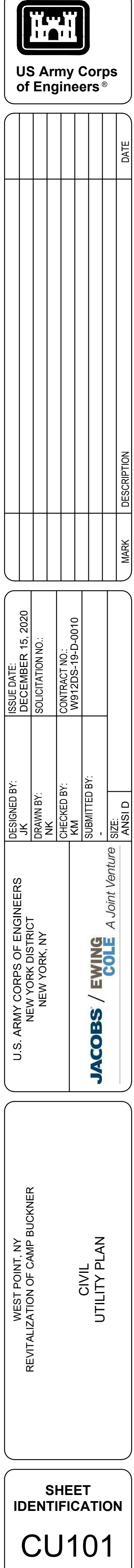
[illegible]

NEW YORK, NY	 JACOBS / EWING COLE	A Joint Venture	
		DRAWN BY: NK CHECKED BY: RMI SUBMITTED BY:	SOLICITATION NO.: CONTRACT NO.: W91ZDS-19-D-0010

CIVIL
SITE PLAN

SHEET
IDENTIFICATION
CS101





1 TYPICAL DETAIL - INJECTION REPAIR OF LARGE CRACKS
SCALE: NTS

DRAWING ABBREVIATIONS

A LABEL	CLASS A DOOR
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABR	ABRASIVE
ABV	ABOVE
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACIP	ARCHITECTURAL CAST IN PLACE CONCRETE
ACOUS	ACoustical(AL)
ACS	AUTOMATIC CONTROL SYSTEM
ACS DR	ACCESS DOOR
ACT	ACoustICAL CEILING TILE
AD	ADRAIN
ADH	AMERICANS WITH DISABILITIES ACT
ADJ	ADHESIVE
ADJU	ADJACENT
ADMIN	ADJUSTABLE
AFC	ADMINISTRATION
AFB	ABOVE FINISHED COUNTER
AFG	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED GRADE
AGGR	ABOVE FINISHED SLAB
AHU	AGGREGATE
AIB	AIR HANDLING UNIT
ALT	AIR INFILTRATION BARRIER
ALUM	ALTERNATE
AP	ALUMINUM
ANODE	ACCESS PANEL
APC	ANODE
APCONC	ACOUSTICAL PANEL CEILING
APPROX	ARCHITECTURAL PRECAST CONCRETE
AR	APPROXIMATE
ARCH	AS REQUIRED
ASC	ARCHITECT(URAL)
ASSY	ABOVE SUSPENDED CEILING
ATC	ASSEMBLY
AVB	ACOUSTICAL TILE CEILING
AVG	AIR & VAPOR BARRIER
AW	AVERAGE
AWT	ARCHITECTURAL WOODWORK
	ACOUSTICAL WALL TREATMENT

B	B
B LABEL	CLASS B DOOR
BALC	BALCONY
BB	BASEBOARD
BC	BOOKCASE
BD	BOARD
BDRY	BOUNDARY
BFF	BELOW FINISH FLOOR
BG	BUMPER GUARD
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION
BITUM	BITUMINOUS
BKR	BACKER
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLT IN	BUILT-IN
BLW	BELOW
BM	BEAM
BMK	BENCHMARK
BN	BULLNOSE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BUILDING PAPER
BR	BEDROOM
BRCG	BRACING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BSPL	BACKSPASH
BTWN	BETWEEN
BUR	BUILT-UP ROOFING

C	CAST
C CONC	CAST CONCRETE
C LABEL	CLASS C DOOR
C/C	CENTER TO CENTER
CAB	CABINET
CATW	CATWALK
CAV	CAVITY
CB	CATCH BASIN
CBB	CEMENTITIOUS (BACKER) BOARD
CBO	CONTROL BOX
CBP	COMPOSITE BUILDING PANEL
CD	CONSTRUCTION DOCUMENTS
CDW	CHILLED DRINKING WATER
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CF	CERAMIC
CF	CONTRACTOR FURNISHED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CF5	CUBIC FEET PER SECOND
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG HT	CEILING HEIGHT
CLL	COLUMN LINE
CLO	CLOSE
CLR	CLEAR
CLRM	CLASSROOM
CMPT	COMPUTER
CMU	CONCRETE MASONRY UNIT
CNDS	CONDENSATE
CNR	CARD READER
CO	CLEANOUT
COL	COLUMN
COMM	COMMUNICATION
COMP	COMPRESSIBLE
CONC	CONCRETE

CONF	CONFERENCE
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	CONCRETE PIPE
CPT	CARPET
CR	CONTROL ROOM
CRA	CRASH RAIL
CRS	COURSE
CS	CAST STONE
CSK	COUNTER SUNK
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTR	CENTER
CU FT	CUBIC FEET
CUB	CUBICLE
CUH	CABINET UNIT HEATER
CW	CASEMENT WINDOW

D	DEPTH
D LABEL	CLASS D DOOR
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DIR	DIRECTION
DISP	DISPENSER
DIST	DISTANCE
DMPF	DAMPPOOFING
DN	DOWN
DO	DITTO
DOC	DOCUMENT
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWTR	DUMBWAITER

E	
E LABEL	CLASS E DOOR
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ES	EACH SIDE
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMBM	EMBEDMENT
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER(ING)
ENTR	ENTRANCE
EP	ELECTRICAL PANEL(BOARD)
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EW	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EXH	EXHAUST
EXP	EXPANSION
EXST	EXISTING
EXT	EXTERIOR
EXT GR	EXTERIOR GRADE
EXTRD	EXTRUDED

F	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAS BD	FASCIA BOARD
FB BRK	FACE BRICK
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FED	FEDERAL
FF	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FB INSUL	FOIL BACKED INSULATION
FGB	FIBERGLASS FACED SILICONE TREATED GYPSUM
FGL	FIBERGLASS
FH	FLAT HEAD
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FIN BS	FINISH BOTH SIDES
FIN GR	FINISH GRADE
FIXT	FIXTURE
FL	FLASHING
FLDG	FOLDING
FLEX	FLEXIBLE
FLG	FLOORING
FLMT	FLUSH MOUNT
FLR	FLOOR
FLUOR	FLUORESCENT
FM	FLOOR MAT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOW	FACE OF WALL
FP	FIRE PROTECTION
FPFR	FIREPROOF(ED)(ING)
FR	FRAME
FRG	FIBER REINFORCED GYPSUM
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FRTW	FIRE RETARDANT TREATED WOOD

FS	FULL SIZE
FSFG	FIRE SAFING
FSP	FIRE STANDPIPE
FSTNR	FASTENER
FT	FEET (FOOT)
FTG	FOOTING
FTR	FINNED TUBE RADIATION
FURG	FURRING
FURN	FURNITURE
FURR	FURRING
FUT	FUTURE
FWC	FABRIC WALLCOVERING

G	*****
G	NATURAL GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GOVERNMENT FURNISHED CONTRACTOR
GFI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFRG	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GL	GLASS
GLZ	GLAZING
GR	GRADE
GR FL	GROUND FLOOR
GRL	GRILLE
GRTG	GRATING
GSF	GROSS SQUARE FEET
GSKFT	GASKET
GUT	GUTTER
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
GYP PLAS	GYPSUM PLASTER

H	*****
H	HIGH
HB	HOSE BIBB
HC	HANDICAPPED
HCT	HANDICAPPED ACCESSIBLE TOILET
HD	HEAD
HDBD	HARDBOARD
HDPE	HIGH DENSITY POLYETHYLENE
HDW	HARDWARE
HDWD	HARDWOOD
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HFS	HIGH FULL SIZE
HFS	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HORSE POWER
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HYDR	HYDRAULIC

I	-----
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDING
INS	INSULATION
INT	INTERIOR
ILO	IN LIEU OF
INV	INVERT

J	-----
JAN	JANITOR
JB	JUNCTION BOX
JCT	JUNCTION
JST	JOIST
JT	JOINT

K	-----
K	KIP
KPD	KEYPAD
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE

L	-----
L	LONG
LAB	LABORATORY
LAM	LAMINATE(D)(ION)
LAT TIE	LATERAL TIEBACK FOR APC PANEL
LAV	LAVATORY
LBR	LUMBER
LB	POUND
LDG	LANDING
LF	LINEAR FEET (FOOT)
LG	LAMINATED GLASS
LJB	LIBRARY
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LIGHTPROOF
LPT	LOW POINT
LT	LIGHT
LTG	LIGHTING
LVDOR	LOUVER DOOR
LVR	LOUVER

M	-----
M	METER
MACH	MACHINE
MACH RM	MACHINE ROOM
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MBAR	MOISTURE BARRIER
MBR	MEMBER
MC	MOISTURE CONTENT
MD	METAL DECK
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MEMB	MEMBRANE

MET	METAL
MEZZ	MEZZANINE
MF	MILL FINISH
MFR	MANUFACTURER
MD	MANHOLE
MID	MIDDLE
MIFRC	MASTIC INTUMESCENT FIRE RESISTIVE COATING
MIL STD	MILITARY STANDARD
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MJ	MOVEMENT JOINT (IN MASONRY)
MDLG	MOLDING (MOULDING)
MLWK	MILLWORK
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MODIFY
MSCW	METAL STUD CURTAIN WALL
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
MVBL	MOVABLE
MW	MINERAL WOOL
MWF	MEMBRANE WALL FLASHING
MWP	MEMBRANE WATERPROOFING

N	-----
N	NORTH
NA	NOT APPLICABLE
NF	NEAR FACE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NP	NO PAINT
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE
NSF	NET SQUARE FEET
NTS	NOT TO SCALE

O	-----
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFD	OVERFLOW DRAIN
OFF	OFFICE
OGL	OBSCURE GLASS
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPQ	OPAQUE
OWSJ	OPEN WEB STEEL JOIST
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL

P	-----
PA	PUBLIC ADDRESS
PAR	PARALLEL
PASS	PASSENGER
PAT	PATTERN
PB	PUSHBUTTON
PBD	PARTICLEBOARD
PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCT	PERCENT
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PGBD	PEGBOARD
PH	PHASE
PI	PLASTER
PL	PROPERTY LINE
PL GL	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLAT	PLATFORM
PLBG	PLUMBING
PILING	PILING
PLK	PLANK
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNT	PINT
PP PL	PUSH/PULL PLATE
PR	PAIR
PRCAST	PRECAST
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PRKG	PARKING
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAINTED
PTN	PARTITION
PWR	POWER

Q	-----
QT	QUARRY TILE
QTY	QUANTITY

R	-----
R	RISER
RAD	RADIUS
RAF	RAISED ACCESS FLOOR
RB	RESILIENT BASE
RBM	REINFORCED BRICK MASONRY
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDG INS	RIGID INSULATION, SOLID
REG	RECESSED
REG ROOM	RECREATION ROOM
RECTP	RECTANGLE
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATION
REG	REGISTER
REINF	REINFORCE(D)(ING)(MENT)

REM	REMOVABLE
REP	REPAIR
REPL	REPLACE
REQ	REQUIRE
REQD	REQUIRED
RESIL	RESILIENT
REST	RESTROOM
RET	RETURN
REV	REVISION
RF	RESILIENT FLOORING
RFG	ROOFING
RH	ROOF HATCH
RHR	RIGHT HAND REVERSE
RJ	RUSTICATION JOINT
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
RSD	ROLLING STEEL DOOR
RV	ROOF VENT
RVL	REVEAL
RWC	RAIN WATER CONDUCTOR

SAFB	SOUND ATTENUATION FIRE BLANKET
SAN	SANITARY
SB	SPASH BLOCK
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SECT	SECTION
SF	SQARE FOOT (FEET)
SFRM	SPRAYED FIRE-RESISTANT MATERIAL
SFTWD	SOFTWOOD
SGL	SINGLE
SH	SHELF
SHR	SHOWER
SHT	SHEET(ING)
SHTHG	SHEATHING
SHV	SHELIVING
SIM	SIMILAR
SJ	SCORED JOINT
SK	SINK
SKLT	SKYLIGHT
SL	SEALANT
SMK	SMOKE
SMLS	SEAMLESS
SP	SPACE(ING)
SP EL	SPOT ELEVATION
SPEC	SPECIFICATION
SPF	SPRAY FOAM
SPFI	SPRAY POLYURETHANE FOAM INSULATION
SPKR	SPEAKER
SPR	SPRINKLER
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SR	SERVICE RECEPTOR
SS	SERVICE SINK
SST	STAINLESS STEEL
SSUR	SOLID SURFACING
ST	STAIRS
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STL JST	STEEL JOIST
STL RF DK	STEEL ROOF DECK
STOR	STORAGE
STR	STRINGERS
STRUCT	STRUCTURAL
STRB/HRN	STROBE/HORN
SUB FL	SUBFLOOR
SUPP	SUPPORT
SURF	SURFACE
SUSP	SUSPEND
SV	SHEET VINYL
SW	SIDEWALK
SYM	SYMBOL
SYS	SYSTEM

T	-----
T	TREAD
T&G	TONGUE AND GROOVE
T/S	TUB/SHOWER
TA	TOILET ACCESSORIES
TB	TOWEL BAR
TC	TERRA COTTA
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
TF	TOP OF FINISH FLOOR
THK	THICKNESS
TK BD	TACKBOARD
TMPD GL	TEMPERED GLASS
TN	TRUE NORTH
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOW	TOP OF WALL
TRANS	TRANSOM
TRTD	TREATED
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL

U	-----
UC	UNDERCOUNTER
UH	UNIT HEATER
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY


V	-----
VAR	VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VNR	VENEER
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VWC	VINYL WALL COVERING

W	-----
W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WP	WATERPROOF(II)
WR	WATER RESISTANT
WSC	WAINSCOT
WT	WEIGHT



**US Army Corps
of Engineers ®**

[illegible]

 JACOBS / EWING COLE	US ARMY CORPS OF ENGINEERS		DESIGNED BY: ECC	ISSUE DATE: DECEMBER 19, 2020
			DRAWN BY: ECC	SOLICITATION NO.:
			CHECKED BY: TK	CONTRACT NO.: W9120S-19-D-00010
			SUBMITTED BY: BK	

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

ABBREVIATIONS

SHEET ID

A-001

DEMOLITION NOTES

- 1. CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE WORK INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO PROCEEDING WITH THE WORK.
- 2. CONTRACTOR SHALL CONSULT WITH THE OWNER IN ADVANCE OF DOING WORK TO DETERMINE DISPOSITION OF ALL FIXTURES, CABINETS, SERVICES, EQUIPMENT AND ITEMS REMOVED DURING THE DEMOLITION. REMOVE AND DISCARD ALL EXISTING FURNITURE & EQUIPMENT, LOOSE ITEMS & DEBRIS ETC. LEFT BEHIND BY OWNER. A TYPICAL BARRACK HAS 20 BUNKS AND 42 WALL LOCKERS FOR A TOTAL OF 240 BUNKS AND 504 WALL LOCKERS TO BE REMOVED BY CONTRACTOR.
- 3. IT IS THE INTENT OF THE DEMOLITION TO REMOVE EXISTING CONSTRUCTION WHICH CONFLICTS WITH THE INTENT OF NEW CONSTRUCTION. EVERY DEMOLITION CONDITION MAY NOT BE COVERED IN THESE DOCUMENTS. CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING CONSTRUCTION FOR THE INSTALLATION OF NEW WORK. THE DESIGN INTENT IS FOR THE FOLLOWING ITEMS TO BE REMOVED FROM THE BUILDING UNLESS SPECIFICALLY NOTED OTHERWISE: WINDOWS, PLASTER AND GYPSUM BOARD WALLS AND RELATED STUDS, MASONRY AND FURRING, PLUMBING FIXTURES, LIGHTING FIXTURES, LOUVERS, AND FIRE EXTINGUISHERS.
- 4. SEE DEMOLITION SPECIFICATION 02 41 00.
- 5. SEE HAZARDOUS MATERIALS REPORT IN SPECIFICATION APPENDIX
- 6. IF HAZARDOUS MATERIALS I.E. LEAD AND ASBESTOS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR IS TO STOP WORK IN THE AREA IMMEDIATELY AND INFORM THE CONTRACTING OFFICER FOR FUTURE DIRECTION.
- 7. UNLESS NOTED OTHERWISE, REMOVE EXISTING PROJECTIONS, HANGERS, BOLTS, NAILS, BRACKETS, CURTAIN RODS, VALANCES, ETC. FROM EXISTING WALLS AND COLUMNS. PATCH ALL HOLES TO MATCH ADJACENT SURFACES FOR THE INSTALLATION OF NEW FINISHES.
- 8. ALL MECHANICAL AND ELECTRICAL WORK NOTED ON THE DEMOLITION DRAWINGS SHALL BE REMOVED BY THE APPROPRIATE DIVISION 21, 22, 23, 25, 26, 27 AND 28 SUBCONTRACTORS.
- 9. DAMAGED METAL PANELS: CONTRACTOR TO SUBMIT A FULL ASSESMENT OF THE EXISTING METAL WALL AND ROOF PANELS FOR ALL BARRACKS BUILDINGS, DOCUMENTING EXISTING HOLES (LARGER THAN 1/4" IN DIAMETER) AND DAMAGED PANELS (INCLUDING MAJOR RUSTING, DENTS, AND TEARS) TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL FOR REPAIR/REPLACEMENT. ASSESMENT TO INCLUDE KEYED PHOTOS IDENTIFYING LOCATIONS OF ALL COMPROMISED LOCATIONS, PROPOSED REPAIR METHOD, AND A TABULATED QUANTITY OF REPAIRS.
- 10. HOLES IN EXISTING FLOORS AND WALLS RESULTING FROM DEMOLITION OR REMOVALS SHALL BE REPAIRED IN A MANNER CONSISTENT WITH THE ADJACENT UL RATED CONSTRUCTION AND BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- 11. REFERENCE APPROPRIATE DESIGN DISCIPLINES FOR RELATED DEMOLITION PLANS.
- 12. PERFORM DEMOLITION WORK TO PROVIDE SQUARE, LEVEL, AND SMOOTH JUNCTURES AND INTERSECTIONS BETWEEN EXISTING AND NEW CONSTRUCTION.
- 13. DEMOLITION WORK IS TO BE DONE IN COMPLIANCE WITH APPLICABLE CODES, LAWS AND REGULATIONS.

KEYED DEMOLITION NOTES

- 1. **GWB PARTITION:** REMOVE ITEMS ATTACHED TO WALL SURFACE, SUCH AS BASE. REMOVE EXISTING DRYWALL, TRACKS AND BRACING IN THEIR ENTIRETY.
- 2. **CMU PARTITION:** REMOVE ITEMS ATTACHED TO WALL SURFACE, SUCH AS BASE. REMOVE EXISTING DRYWALL, IF ANY. DISCONNECT AND REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES AND EQUIPMENT. REMOVE CMU AND BRACING IN THEIR ENTIRETY.
- 3. **METAL CEILING:** DISCONNECT AND REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES AND EQUIPMENT SUPPORTED ON FRAMING GRID. REMOVE ALL ABOVE CEILING INSULATION. REMOVE ALL METAL CEILING PANELS AND FASTENERS IN THEIR ENTIRETY.
- 4. **CERAMIC TILE FLOORS:** REMOVE EXISTING CERAMIC TILE, MATS AND SETTING BED TO STRUCTURAL SLAB.
- 5. **DOOR/FRAME/HARDWARE:** REMOVE EXISTING DOOR, FRAME AND HARDWARE.
- 6. **ALUMINUM WINDOWS:** REMOVE EXISTING WINDOW IN ITS ENTIRETY.
- 7. **FIXTURES AND ACCESSORIES:** REMOVE ALL EXISTING TOILETS, ASSOCIATED ACCESSORIES, AND STALL PARTITIONS. REMOVE ALL EXISTING URINALS. REMOVE ALL EXISTING SINKS AND ASSOCIATED FIXTURES AND ACCESSORIES. REMOVE ALL SHOWER FIXTURES AND ACCESSORIES.
- 8. **EXHAUST FANS:** REMOVE EXISTING CEILING EXHAUST FANS, LOUVERS, AND ASSOCIATED WIRING AND SWITCHES.

NOTE:

A HAZARDOUS MATERIALS SURVEY WAS CONDUCTED BY GLOBAL CONSULTING INC ON 11/13/19 AND 11/14/19. LICENSED, CERTIFIED, AND EXPERIENCED INSPECTORS EXAMINED TWO RANDOM BUILDINGS FROM EACH PHASE OF THE PROJECT, INCLUDING BUILDINGS 1611 AND 1612 FROM PHASE 1. ROOFING COMPONENTS WERE EXCLUDED FROM THE SURVEY. THE FULL HAZARDOUS MATERIAL REPORT CAN BE FOUND IN SPECIFICATIONS APPENDIX 2.2.

SOME OF THE FOLLOWING HAZARDOUS MATERIALS FOR THE PHASE 1 BUILDINGS WERE REPORTED DURING THE SURVEY. SEE THE HAZARDOUS MATERIAL REPORT FOR A COMPREHENSIVE LIST OF POSSIBLE HAZARDOUS MATERIALS AT CAMP BUCKNER :

ASBESTOS:

- NO ASBESTOS-CONTAINING MATERIALS (ACM) WERE IDENTIFIED IN THE PHASE 1 BUILDINGS, THOUGH MATERIALS POSITIVELY-IDENTIFIED AS ACM WERE DISCOVERED IN PHASE 2-4 BUILDINGS.
- ROOFING MATERIALS (EXCLUDED FROM THE SURVEY), POSSIBLE MASTIC PATTIES BEHIND THE MIRRORS IN THE RESTROOMS, AND POSSIBLE PIPE INSULATION INSIDE PIPE CHASES OF RESTROOMS ARE PRESUMED ASBESTOS-CONTAINING MATERIALS (PACM).

LEAD BASED PAINT:

- MEN'S LATRINE SLOP SINK.
- YELLOW TOILET DOOR/PARTITION IN WOMEN'S LATRINE.
- YELLOW PAINT ON EXTERIOR STEPS.
- GREY PAINT ON GATE DOOR IN ARMS ROOM OF BUILDING 1612.

MOLD:

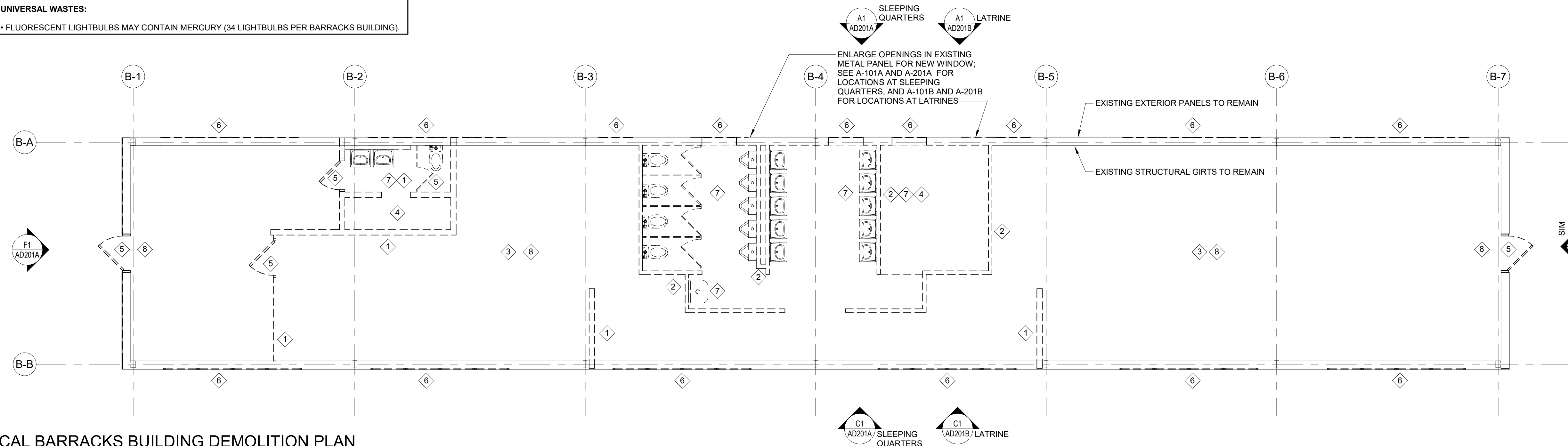
- APPARANT MICROBIAL GROWTH WAS IDENTIFIED

POLYCHLORINATED BIPHENYLS (PCBs):

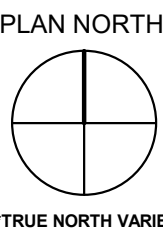
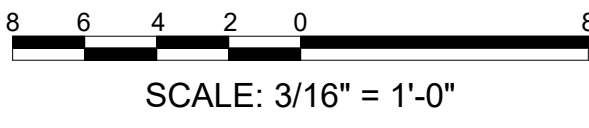
- THERE IS AN ELEVATED POTENTIAL FOR THE PRESENCE OF PCB-CONTAINING LIGHT BALLASTS BASED ON THE AGE AND TYPE OF THE CEILING LIGHT FIXTURES (17 FIXTURES PER BARRACKS BUILDING).


UNIVERSAL WASTES:

- FLUORESCENT LIGHTBULBS MAY CONTAIN MERCURY (34 LIGHTBULBS PER BARRACKS BUILDING).



A1 TYPICAL BARRACKS BUILDING DEMOLITION PLAN
SCALE: 3/16" = 1'-0"





US Army Corps
of Engineers ®

DESIGNED BY:		ISSUE DATE:	DATE
ECC	DECEMBER 15, 2020		
DRAWN BY:		SOLICITATION NO.:	MARK
TK			
CHECKED BY:		CONTRACT NO.:	DESCRIPTION
TK		W912DS-19-D-0010	
SUBMITTED BY:		DATE:	
BK			
SIZE:		ANSI D	

US ARMY CORPS OF ENGINEERS

JACOBS / EWING COLE A Joint Venture

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

TYPICAL EXISTING BARRACK DEMOLITION PLAN

SHEET ID

AD101

G

F

E

D

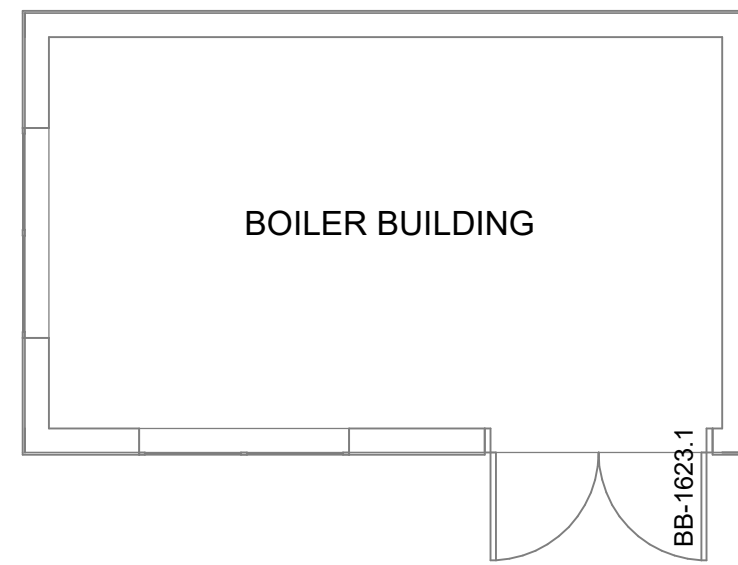
C

B

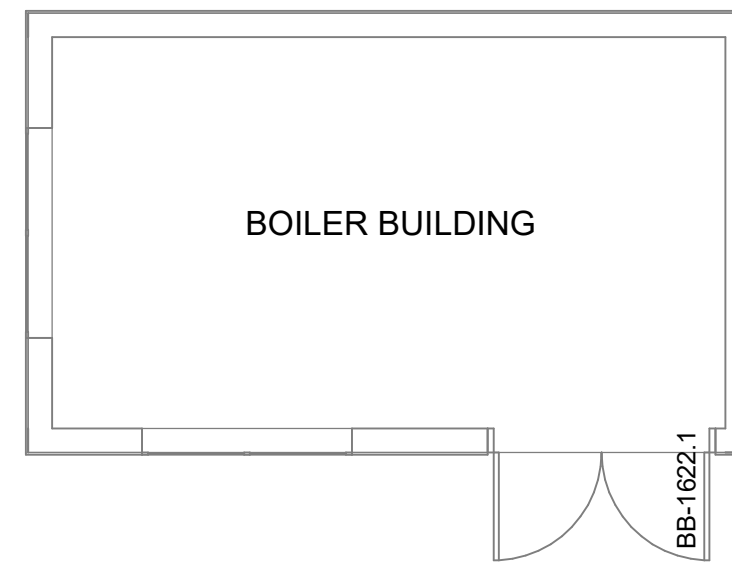
A

BOILER BUILDING GENERAL NOTES

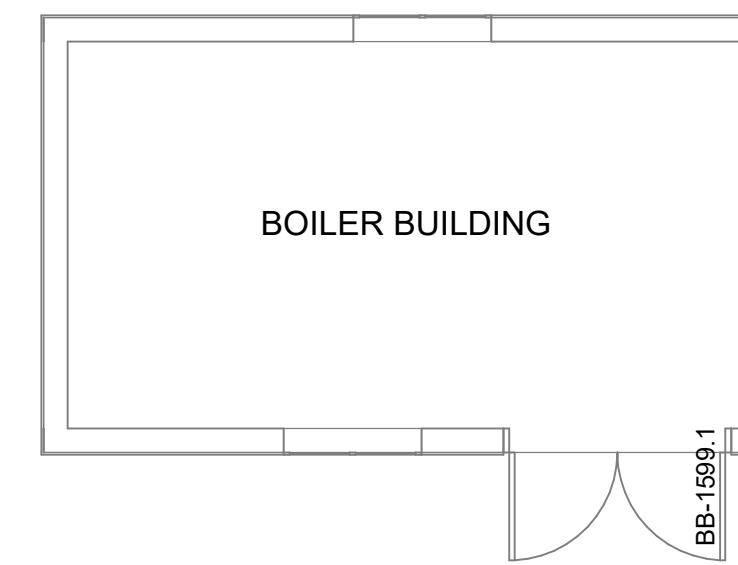
1. BOILER BUILDINGS ARE SHOWN FOR INFORMATION ONLY - NO NEW ARCHITECTURAL WORK IS SCHEDULED FOR THESE SPACES. ALL EXISTING WALLS, DOORS, AND CEILINGS TO REMAIN AS IS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXTENT OF NEW WORK IN THE BOILER BUILDINGS.
2. PATCH AND REPAIR PANEL PENETRATIONS DUE TO REMOVAL OF EXISTING PIPING AS NECESSARY.



E1 BUILDING 1623 - EXISTING BOILER BUILDING
SCALE: 3/16" = 1'-0"



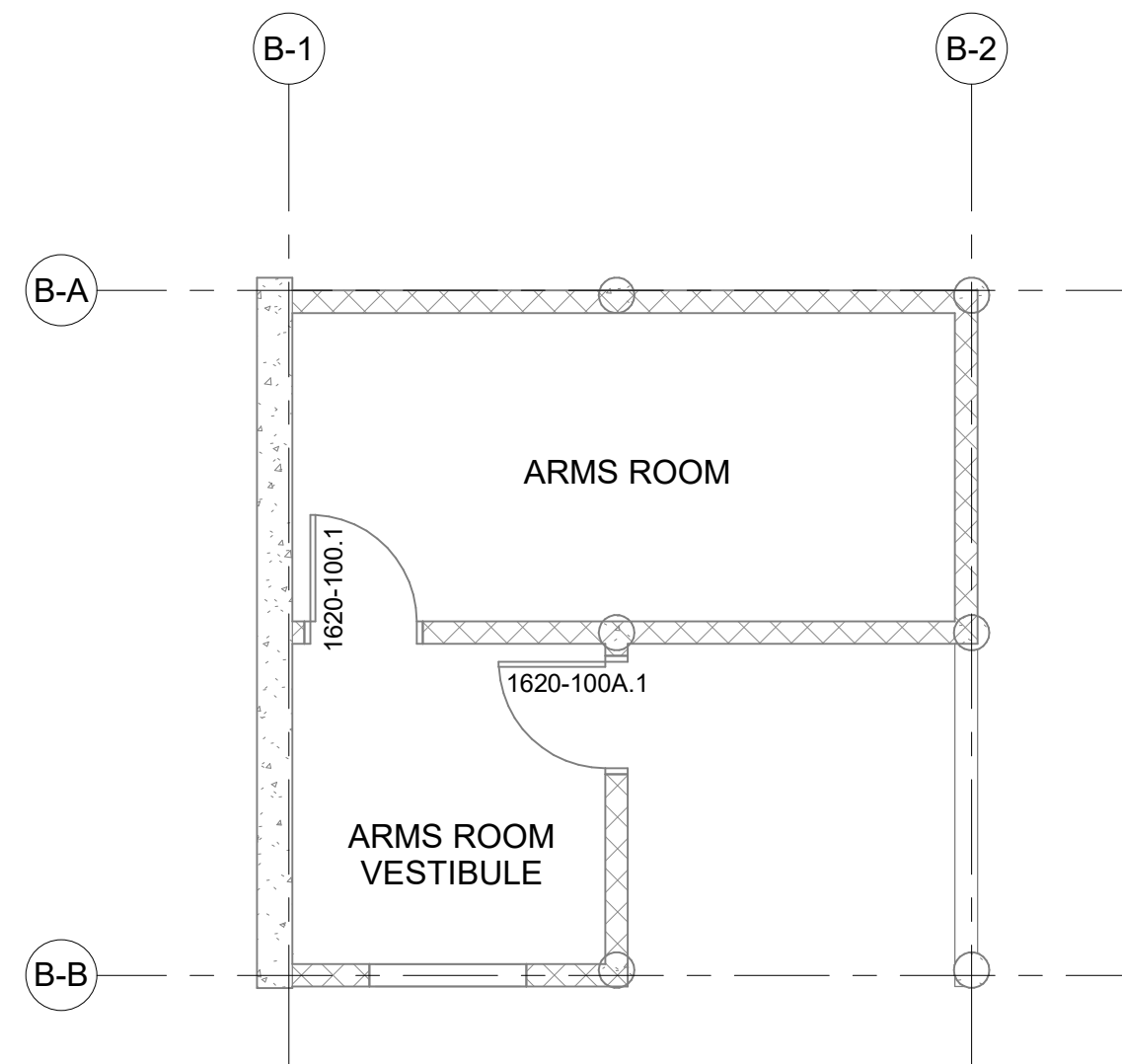
E4 BUILDING 1622 - EXISTING BOILER BUILDING
SCALE: 3/16" = 1'-0"



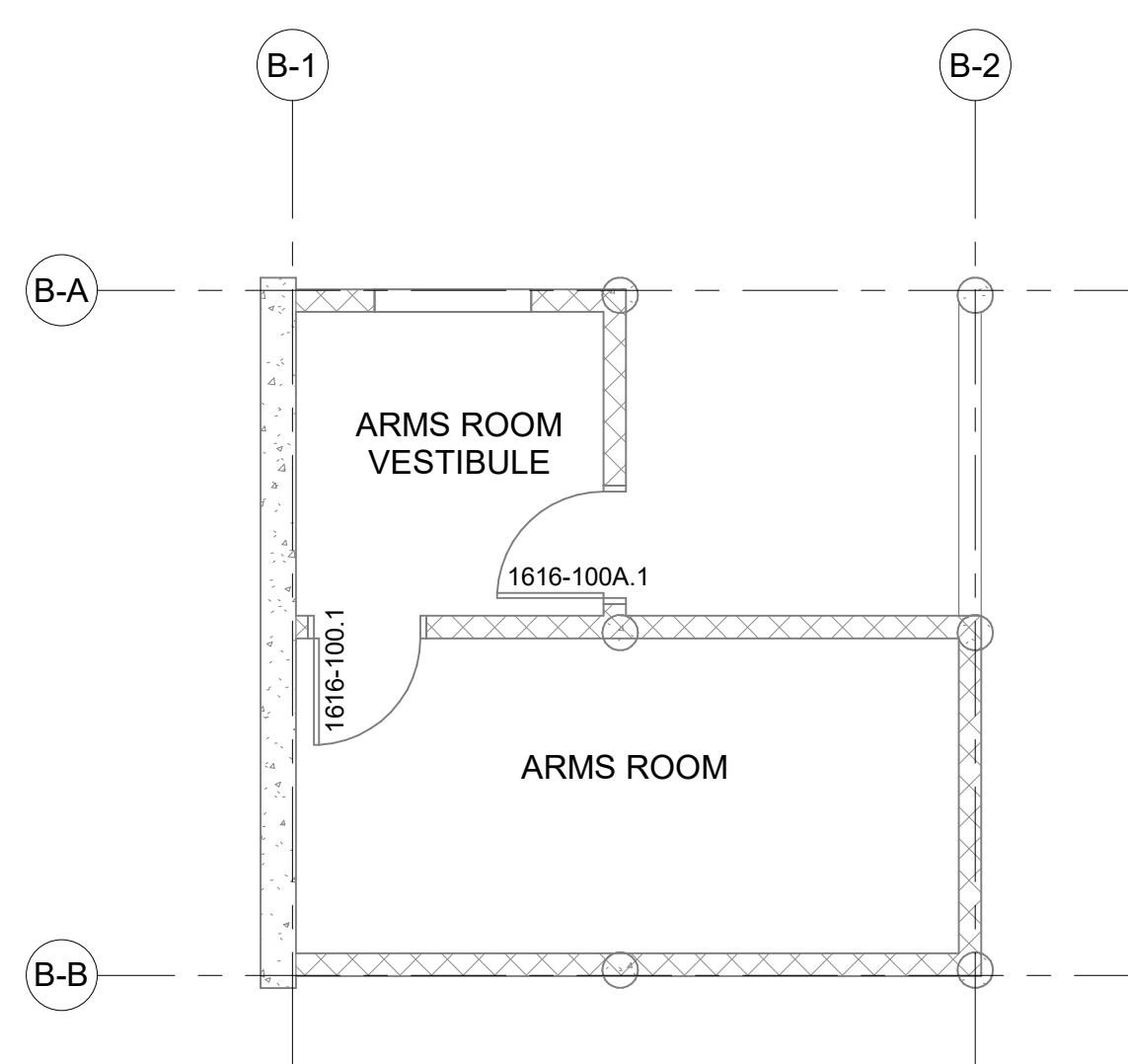
E8 BUILDING 1599 - EXISTING BOILER BUILDING
SCALE: 3/16" = 1'-0"

ARMS ROOMS GENERAL NOTES

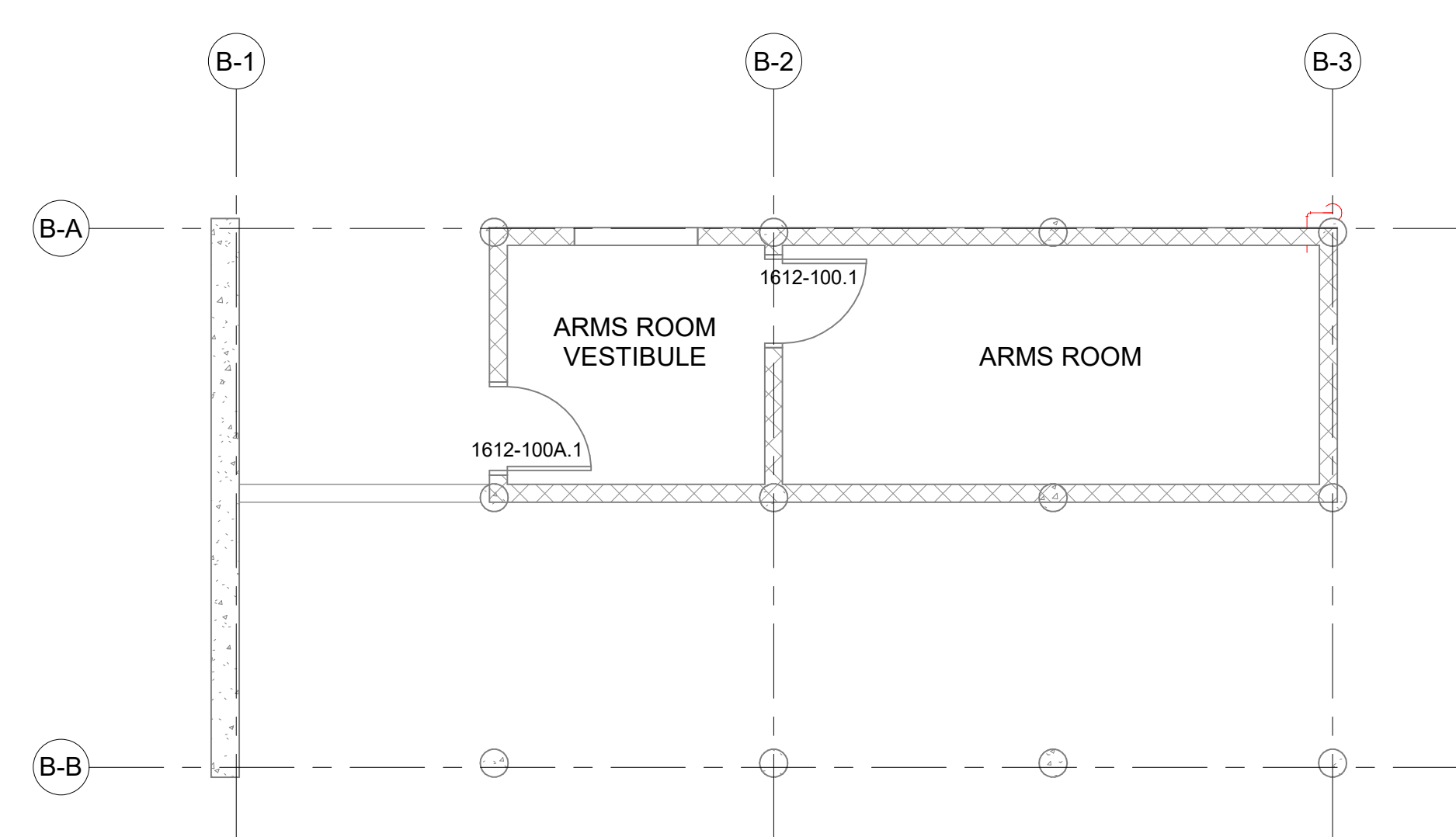
1. ARMS ROOMS ARE SHOWN FOR INFORMATION ONLY - NO NEW WORK IS SCHEDULED FOR THESE SPACES.
2. COORDINATE DEMOLITION OF EXISTING PIPING WITH EXISTING ARMS ROOMS. PATCH AND REPAIR PENETRATIONS DUE TO REMOVAL OF EXISTING PIPING AS NECESSARY.



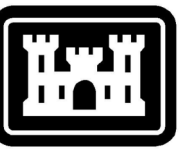
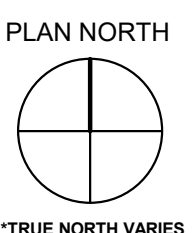
A1 BUILDING 1620 - EXISTING ARMS ROOM
SCALE: 3/16" = 1'-0"



A4 BUILDING 1616 - EXISTING ARMS ROOM
SCALE: 3/16" = 1'-0"





A7 BUILDING 1612 - EXISTING ARMS ROOM
SCALE: 3/16" = 1'-0"



**US Army Corps
of Engineers ®**

[illegible]

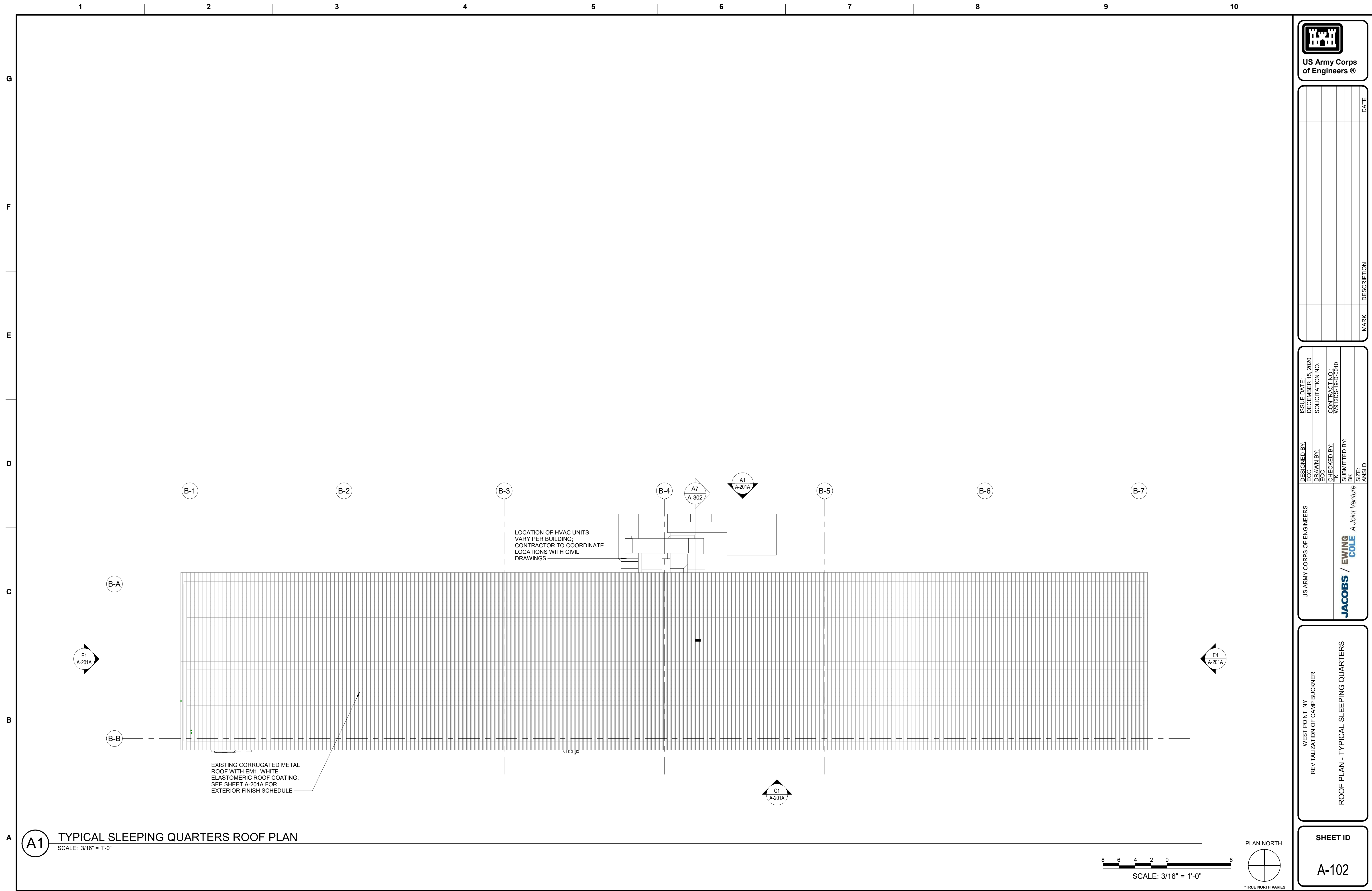
US ARMY CORPS OF ENGINEERS	 	A Joint Venture	
		SIZE: ANSI D	
DRAWN BY: ECC	CHECKED BY: ECC	CONTRACT NO. W12725-1-00010	SOLICITATION NO. DECEMBER 15, 2020
SUBMITTED BY: BK			

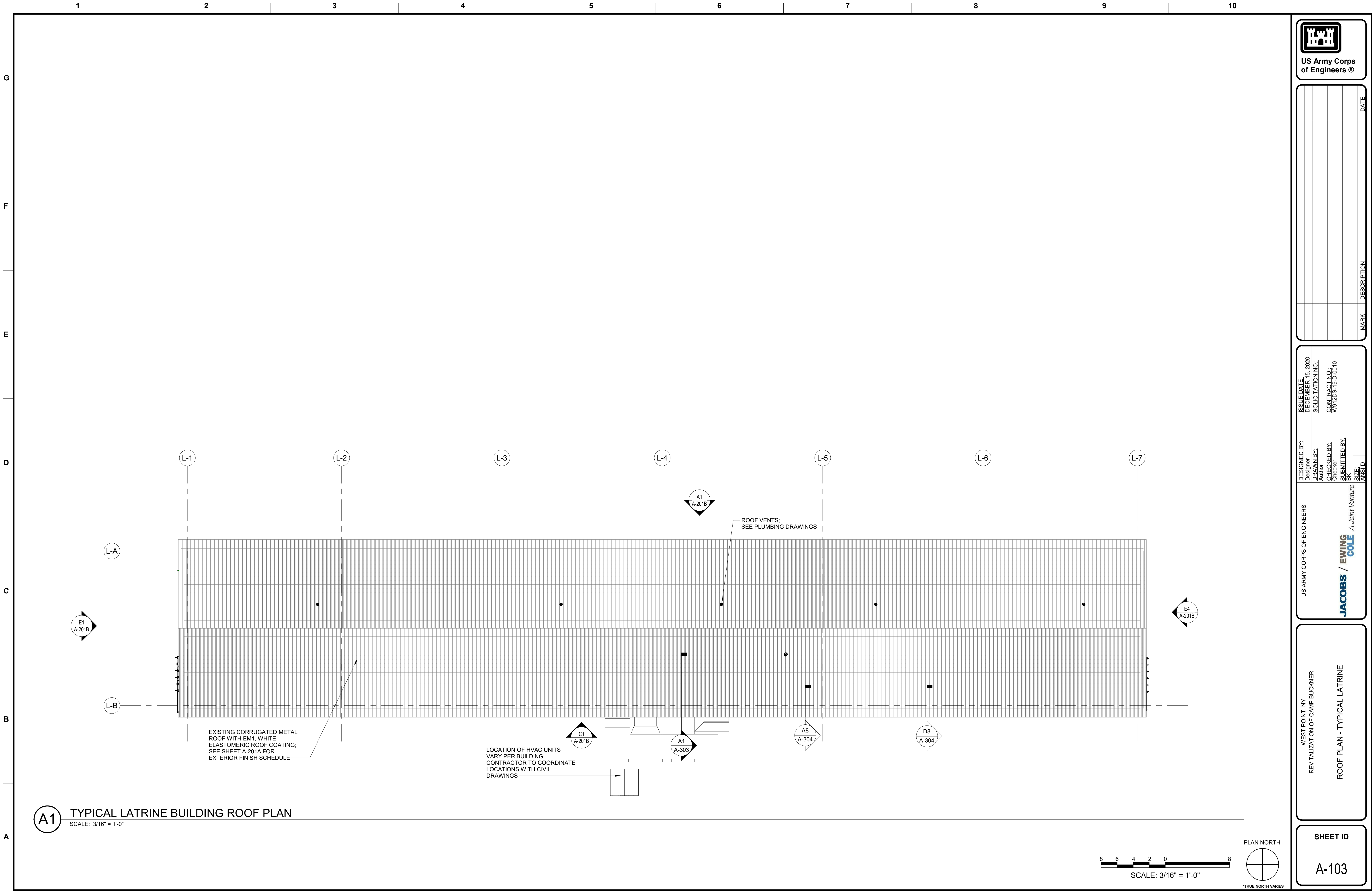
WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

EXISTING BARRACK ARMS ROOMS AND BOILER
BUILDINGS

SHEET ID

A-101C










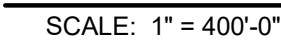
1. ALL CEILINGS LABELED AS FOLLOWS:

2. ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.

3. ALL FIXTURES, DIFFUSERS, GRILLS, SPRINKLER HEADS, SPEAKERS OR OTHER DEVICES SHALL BE LOCATED IN THE CENTER OF A CEILING TILE OR THE CENTER OF A PANEL INSCRIBED ON A TILE, UNO.

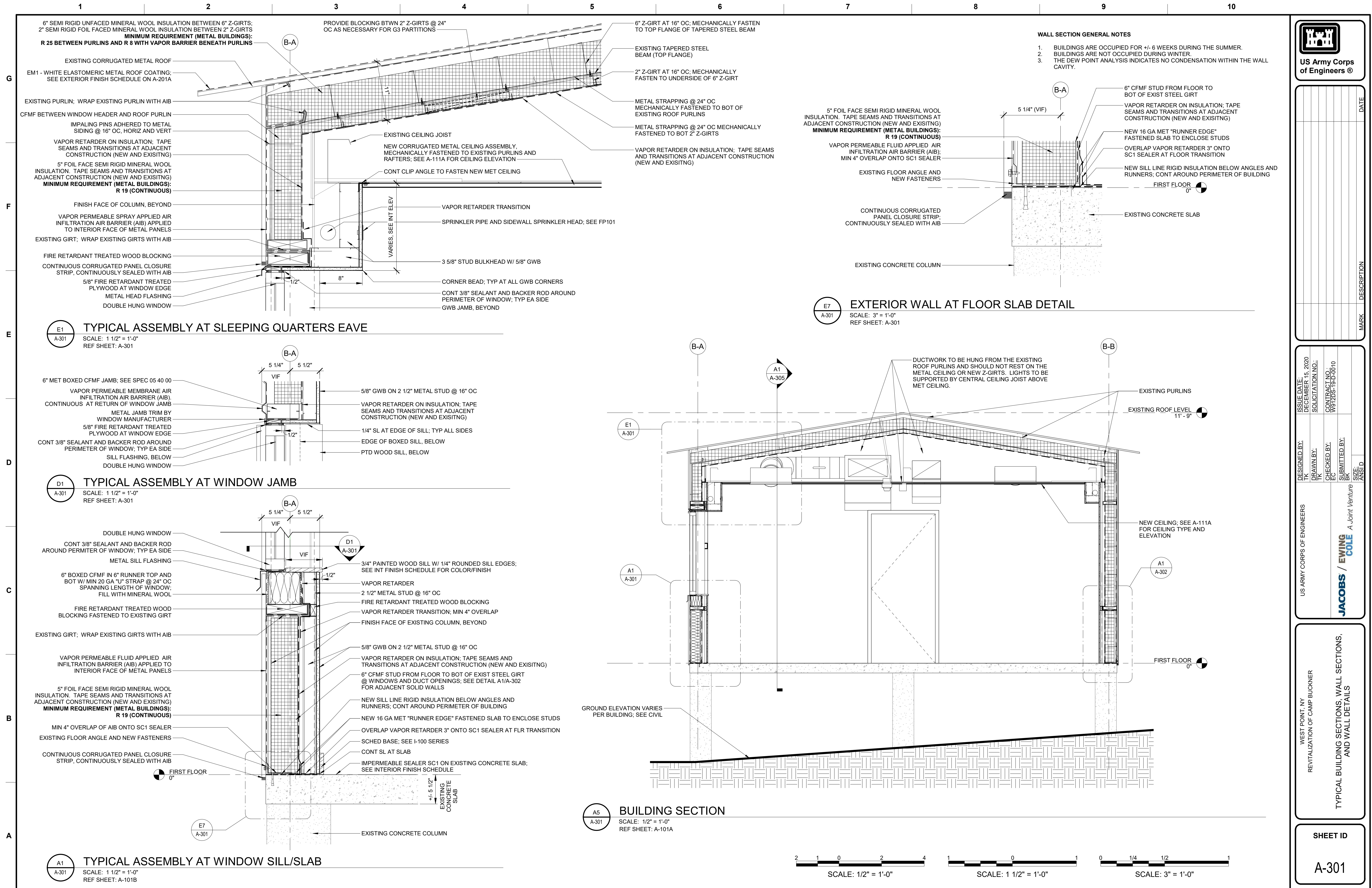
	GWB CEILING or SOFFIT
	2'-0" x 2'-0" ACT CLG, TYPE A (LATRINE BUILDINGS ONLY)
	CORRUGATED METAL CEILING (SLEEPING QUARTERS ONLY)

SEE HVAC DWGS
FOR EQUIPMENT
SPECIFICS



SCALE: 3/16" = 1'-0"

RTA SUBMISSION



[illegible]

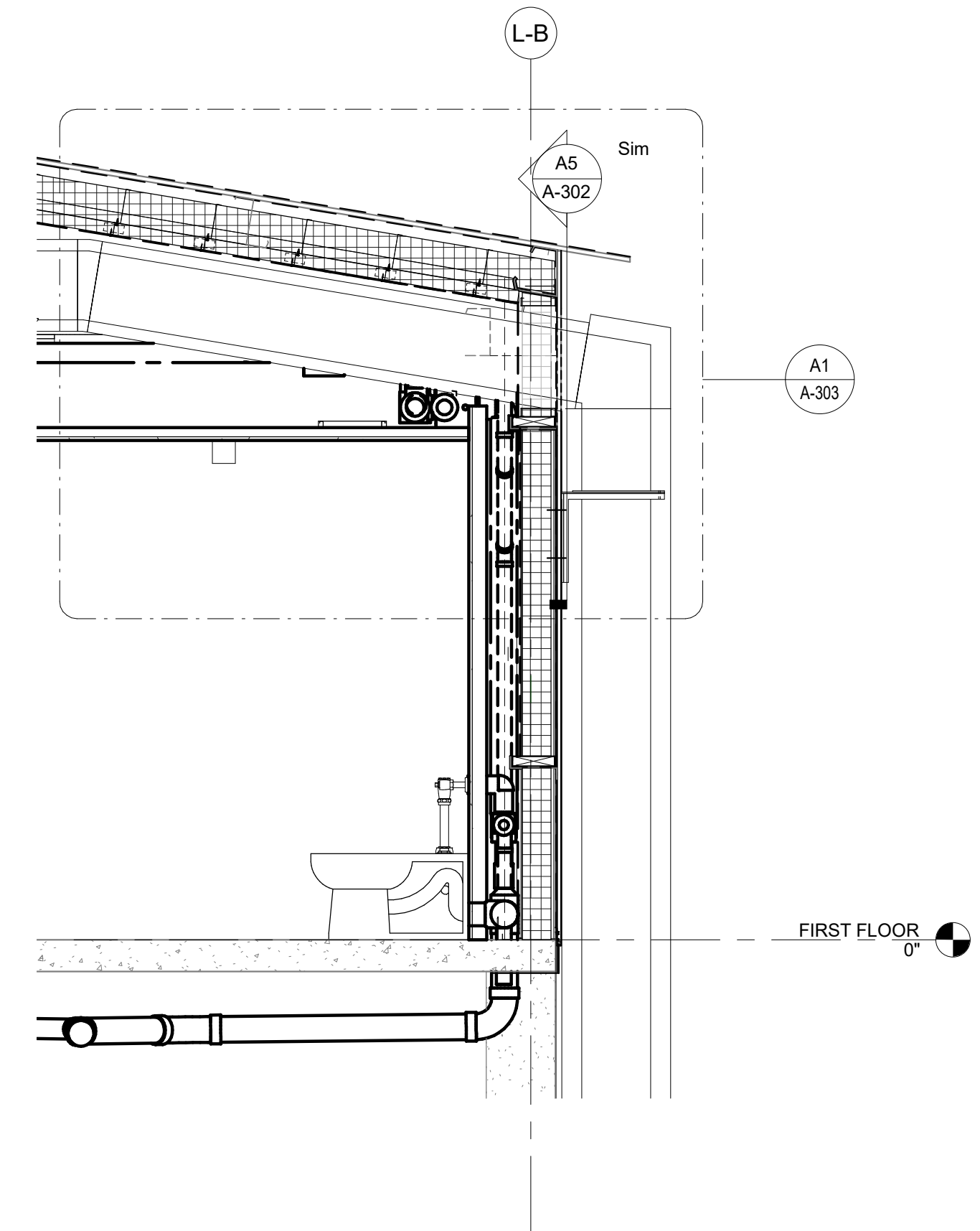
JACOBS / EWING COLE	A Joint Venture	
	SIZE:	ANSI D
	SUBMITTED BY:	BK
	CHECKED BY:	TK
	CONTRACT NO.:	W912DS-1RD-0010
ECN IN BY:	ECN	DECEMBER 13, 2020
SOLICITATION NO.:		

REVITALIZATION OF CAMP BUCKNER

TYPICAL LATRINE EXTERIOR WALL DUCTWORK PENETRATION

SHEET ID

A-303

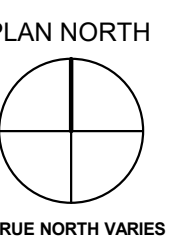
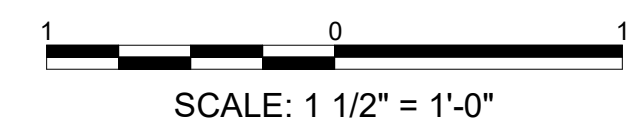


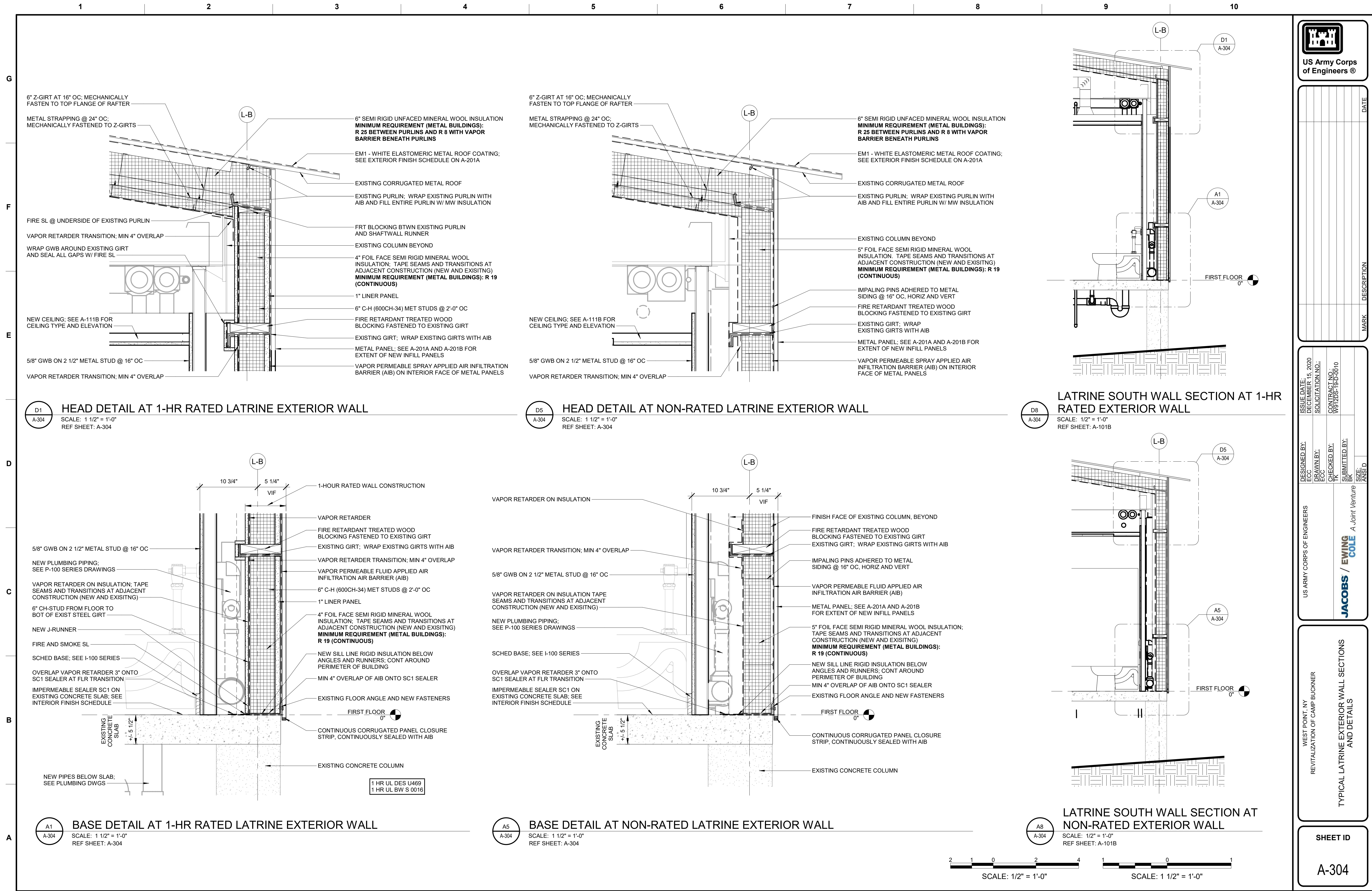




WALL SECTION AT LATRINE DUCTWORK PENETRATION

SCALE: 1/2" = 1'-0"
 REF SHEET: A-101B





1

2

3

4

5

6

7

8

9

10

G

F

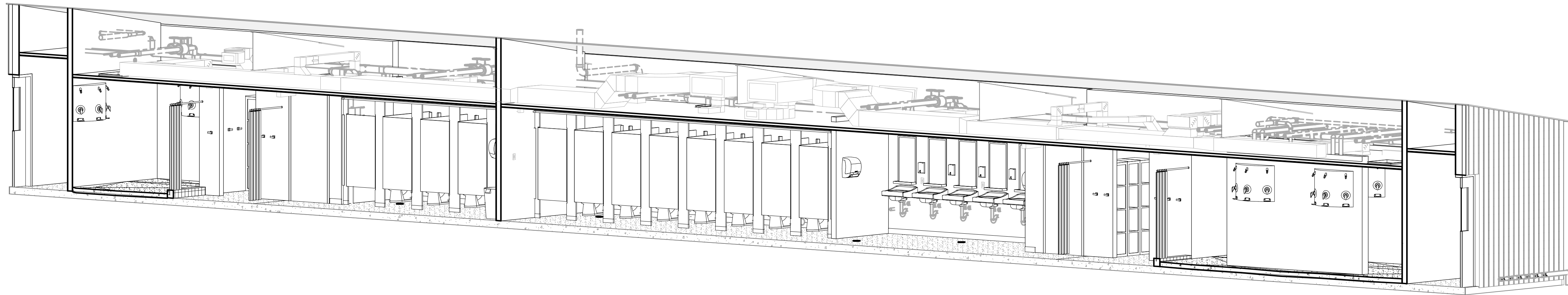
E

D

C

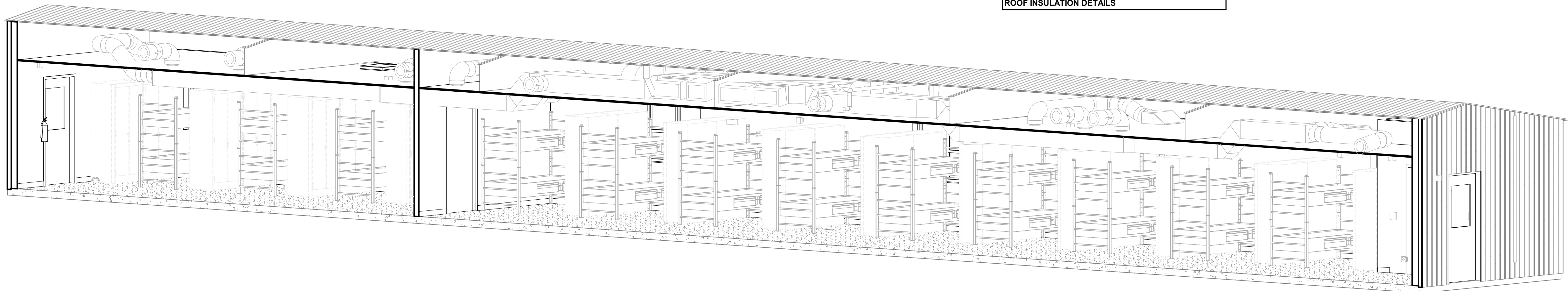
B

A



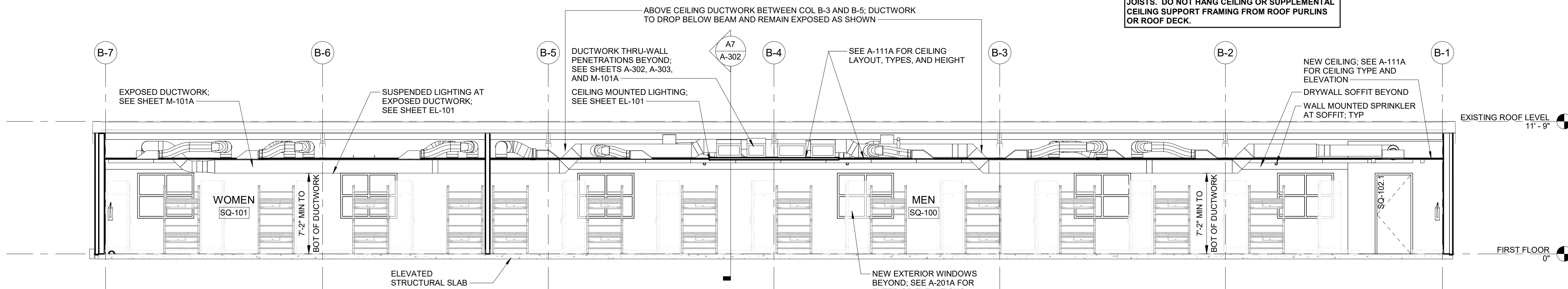
E1
A-305
LATRINE AXONOMETRIC LONGITUDINAL SECTION
NTS

AXONOMETRIC VIEWS SHOWN FOR CLARITY OF
SYSTEM DESIGN; SEE A-301 THROUGH A-304 FOR
ROOF INSULATION DETAILS



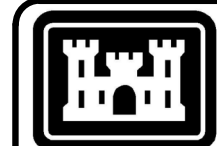
C1
A-305
SLEEPING QUARTERS AXONOMETRIC LONGITUDINAL SECTION
NTS

NOTE:
CEILING AND SUPPLEMENTAL CEILING SUPPORT
FRAMING TO BE HUNG FROM EXISTING CEILING
JOISTS. DO NOT HANG CEILING OR SUPPLEMENTAL
CEILING SUPPORT FRAMING FROM ROOF PURLINS
OR ROOF DECK.



A1
A-305
SLEEPING QUARTERS LONGITUDINAL SECTION
SCALE: 3/16" = 1'-0"
REF SHEET: A-101A

8 6 4 2 0 8
SCALE: 3/16" = 1'-0"



US Army Corps
of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: ECC	ISSUE DATE: DECEMBER 15, 2020
DRAWN BY: TK	SOLICITATION NO.:
CHECKED BY: BK	CONTRACT NO.:
SUBMITTED BY: BK	W912DS-18-D-0010
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS

JACOBS / EWING COLE A Joint Venture

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

DUCTWORK ROUTING AND CEILING
AXONOMETRIC AND SECTION VIEWS

SHEET ID

A-305

[illegible]

ISSUE DATE:	DECEMBER 15, 2020	
DESIGNED BY:	ECC	
DRAWN BY:	ECC	
SOLICITATION NO.:		
CHECKED BY:	TK	
SUBMITTED BY:	BK	
CONTRACT NO.:	W912DS-19-D-0010	
SIZE:		
ANSI D		

2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841

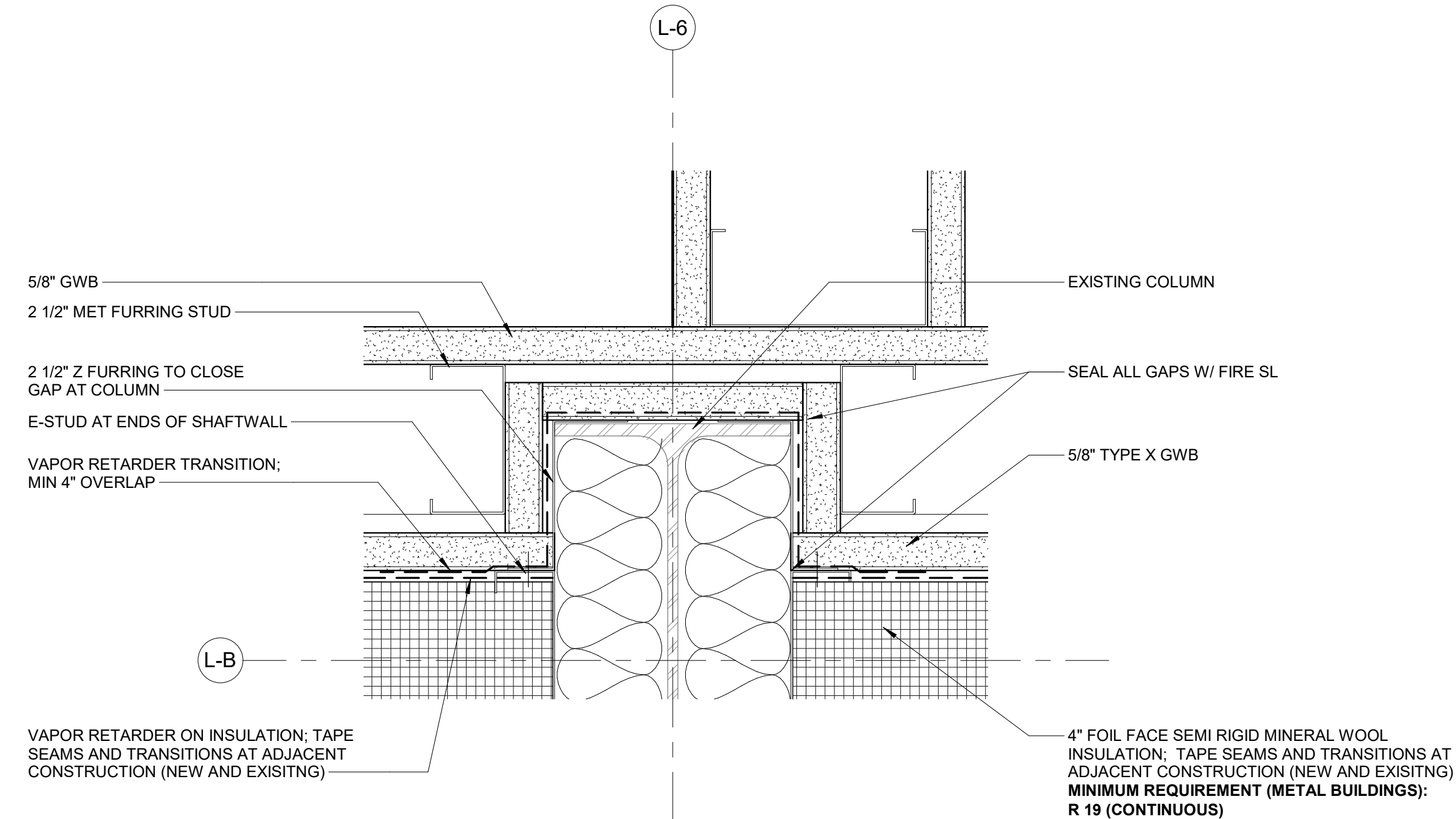
JACOBS / **EWING
COLE**
A Joint Venture

REVITALIZATION OF CAMP BUCKNER

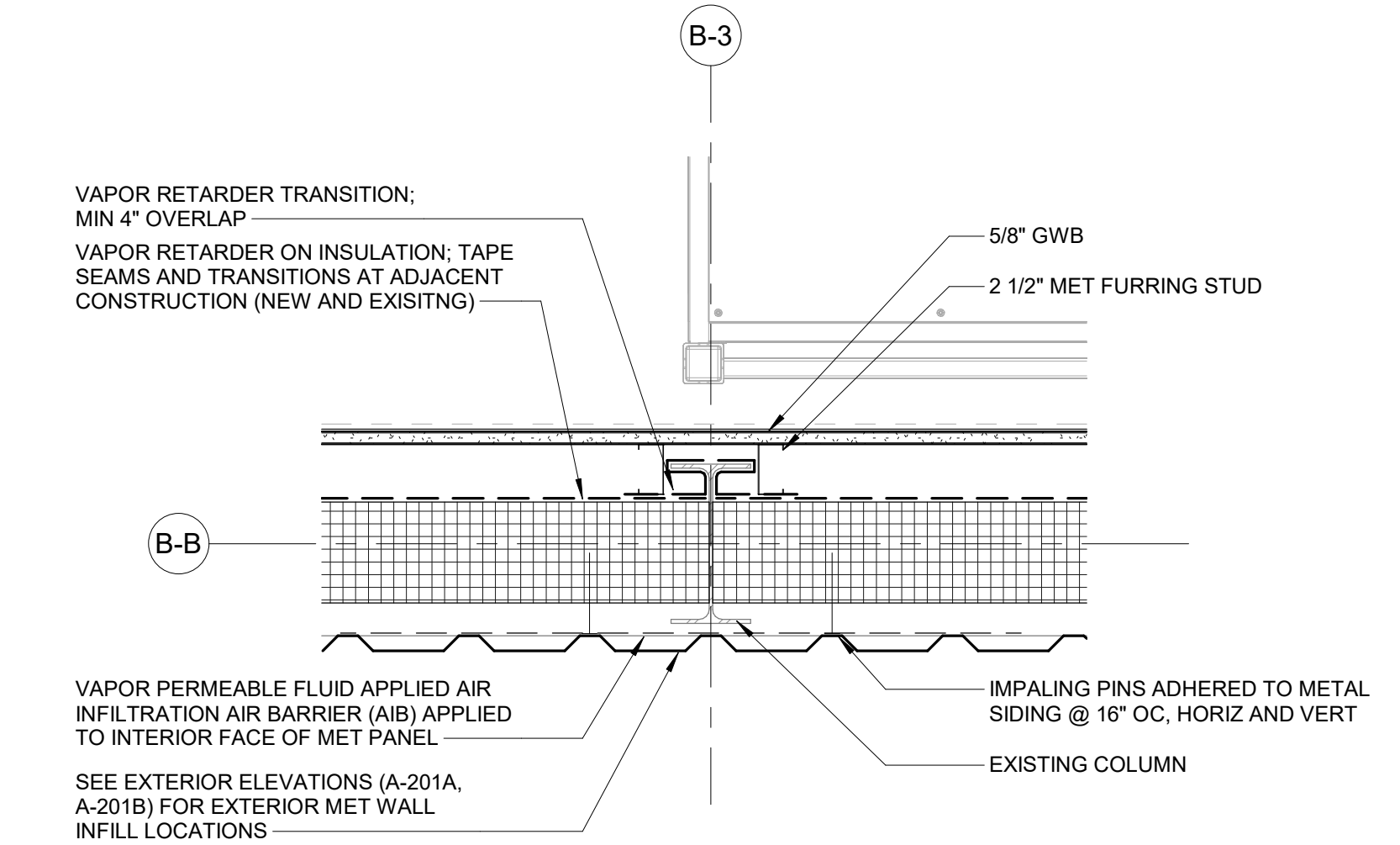
TYPICAL COLUMNS AND MISC DETAILS

HEET ID

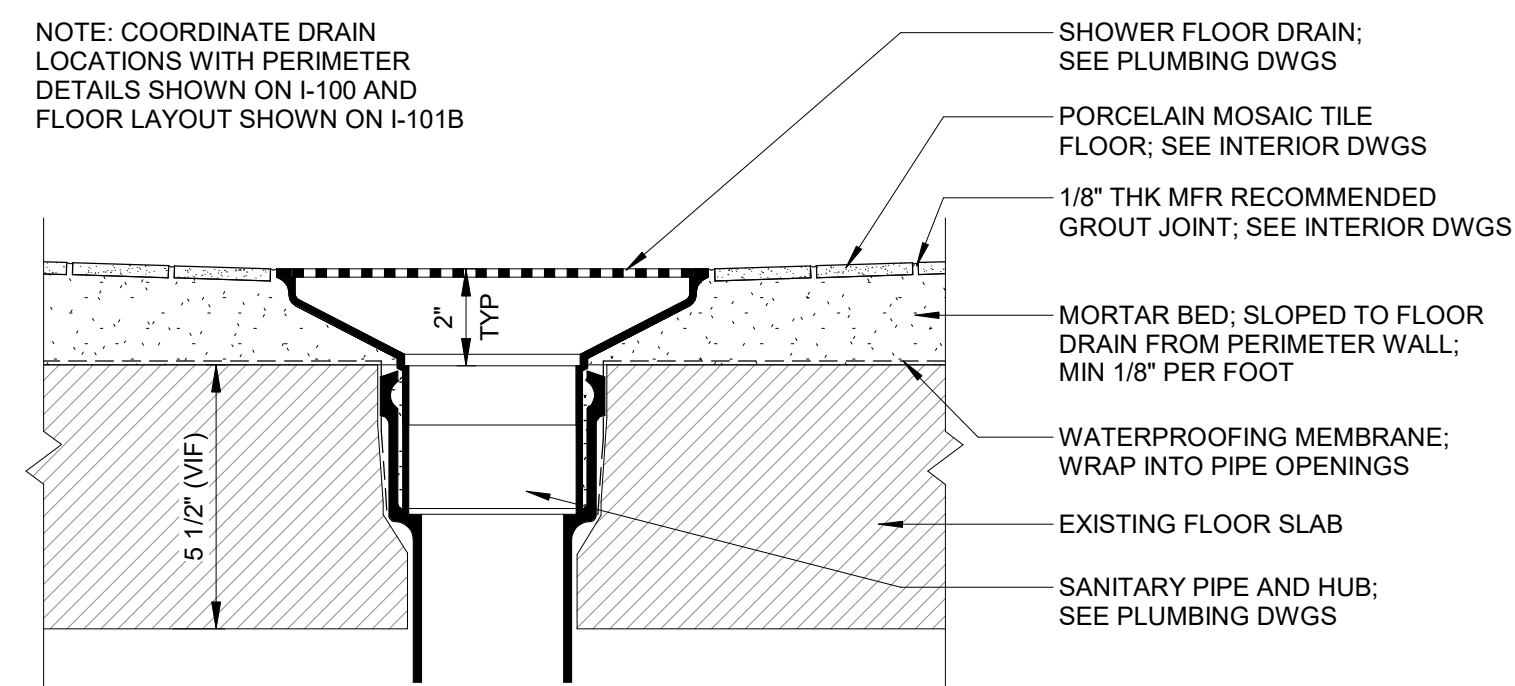
A-330



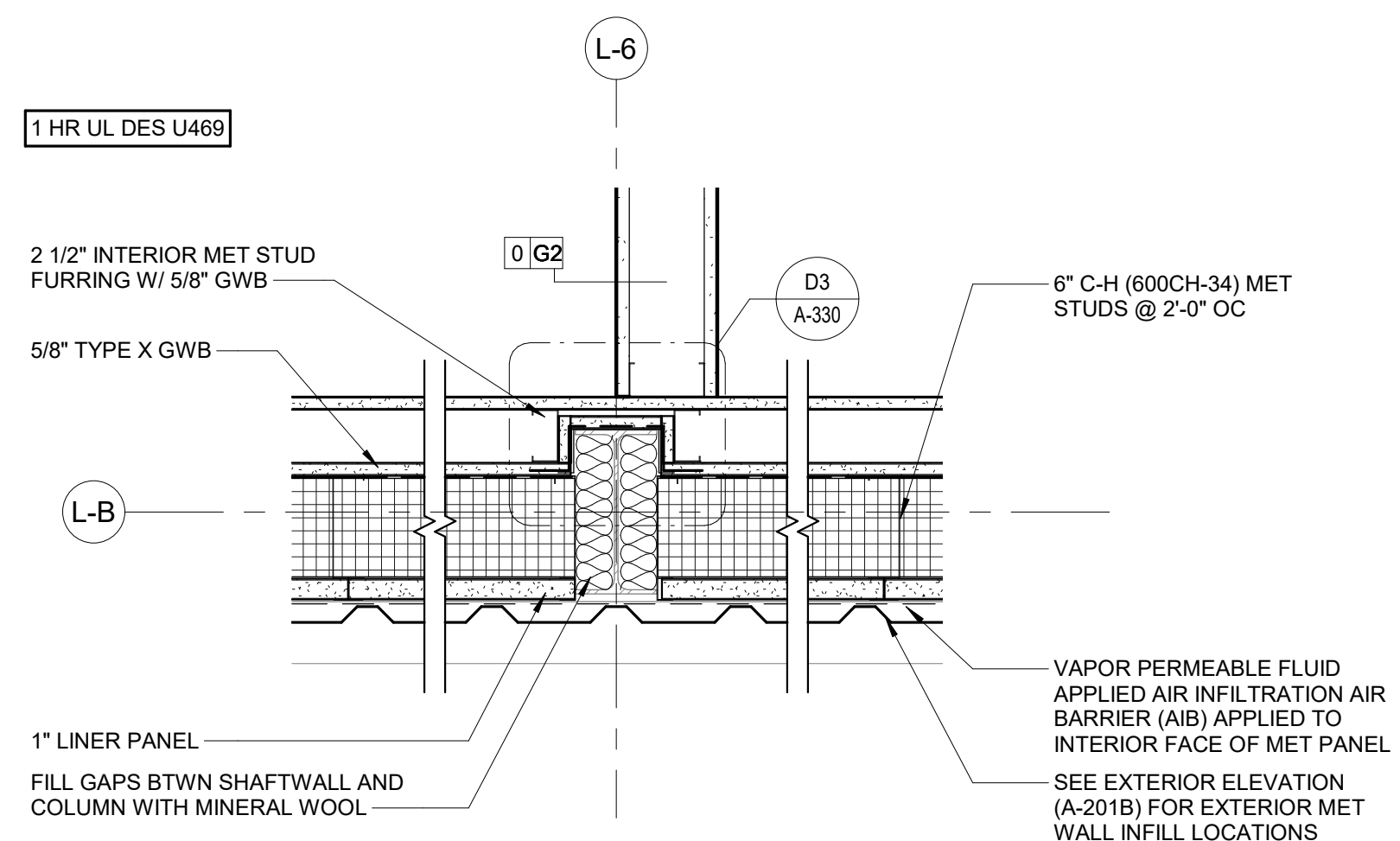
ENLARGED PLAN OF RATED COLUMN WRAP AT EXTERIOR WALL



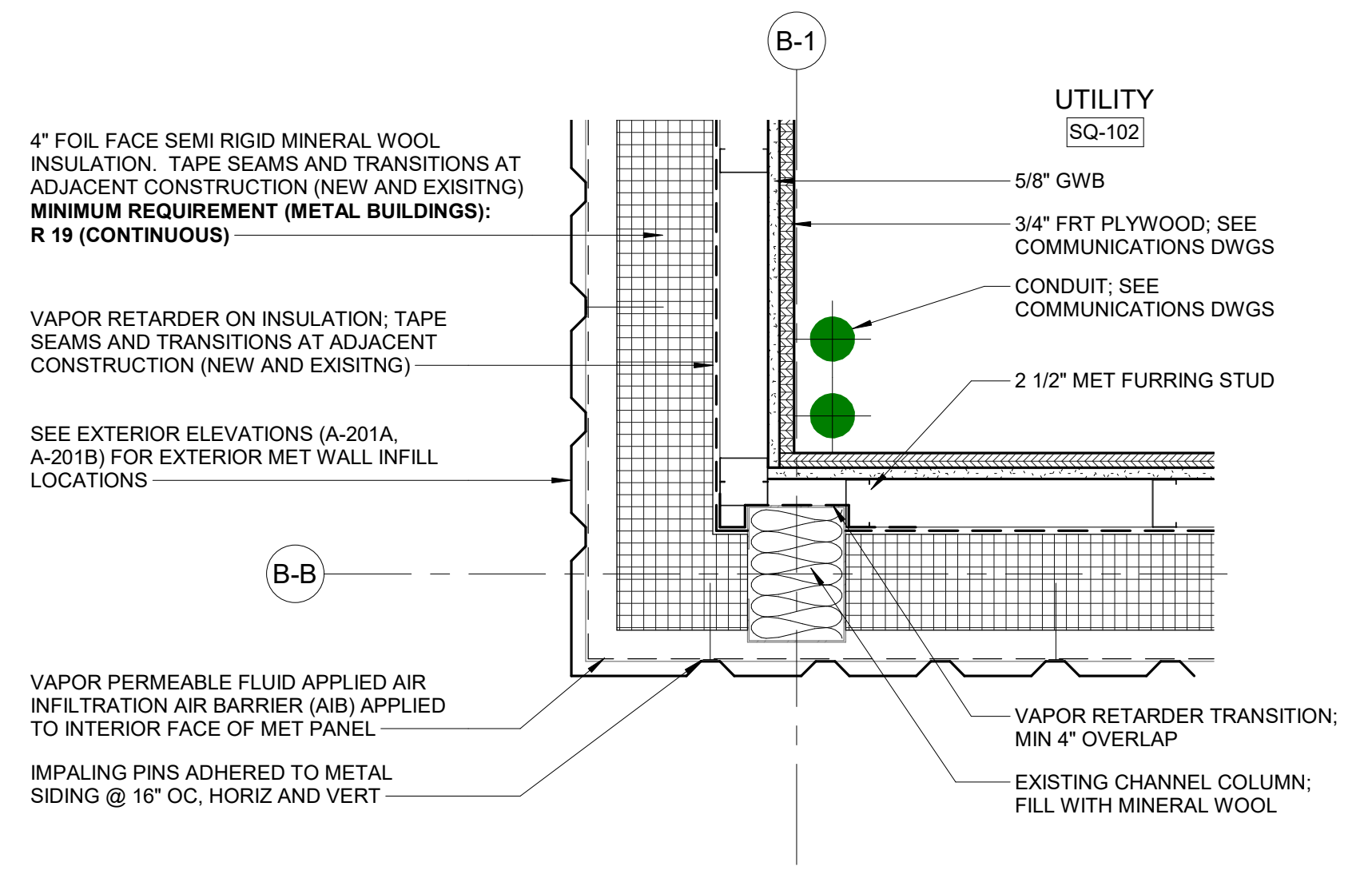
COLUMN DETAIL B-3/B-B
SCALE: 1 1/2" = 1'-0"
REF SHEET: A-101A



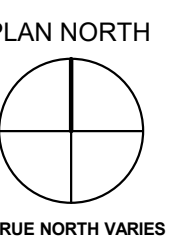
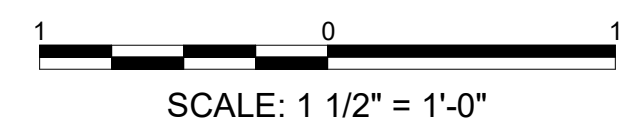
 **FLOOR DRAIN BUILD-UP**
SCALE: 3" = 1'-0"

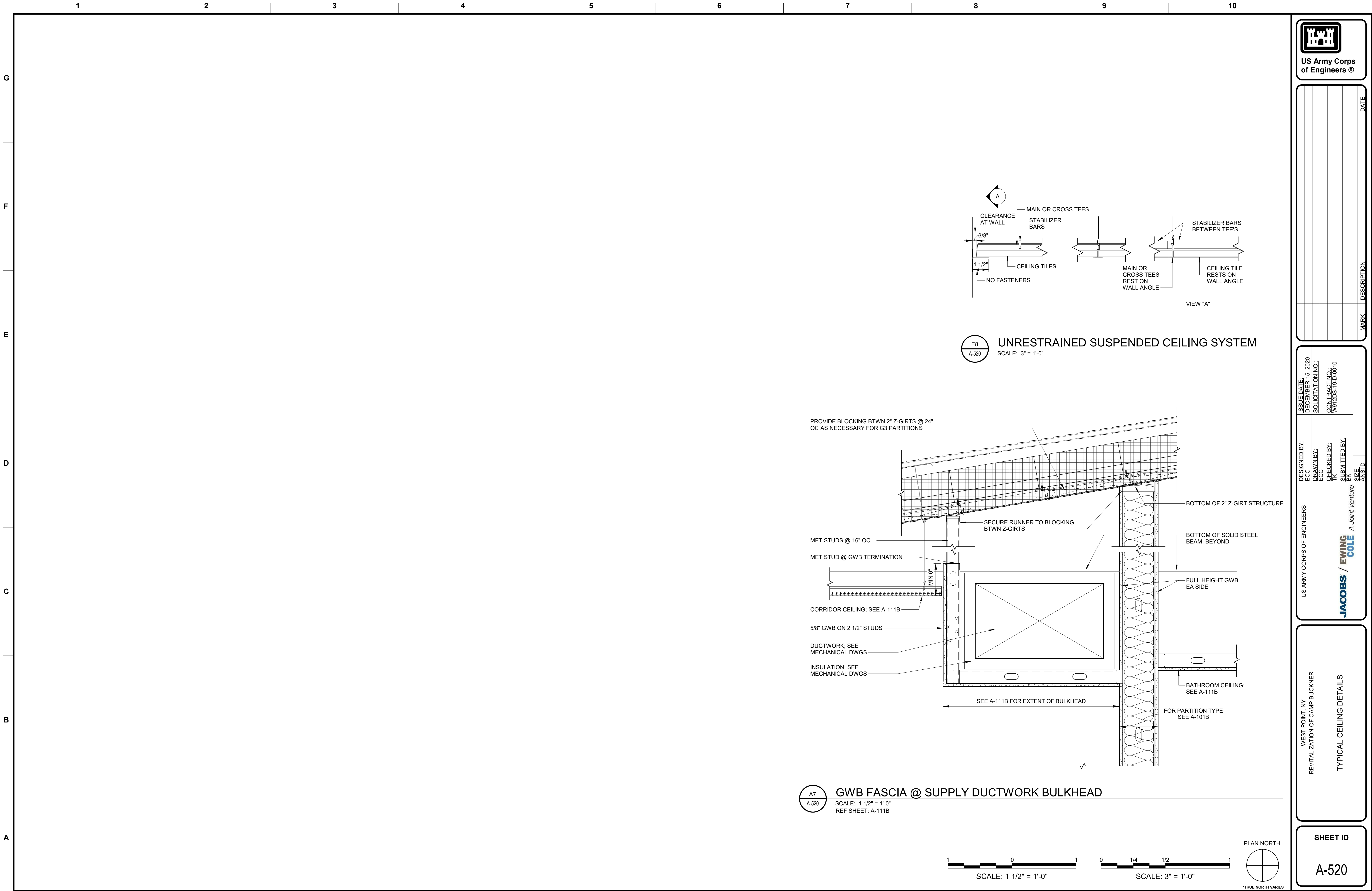


RATED SHAFTWALL ASSEMBLY AT COLUMN DETAIL L-6/L-B



COLUMN DETAIL B-1/B-B
 SCALE: 1 1/2" = 1'-0"
 REF SHEET: A-101A





G

F

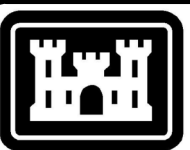
E

D

C

B

A



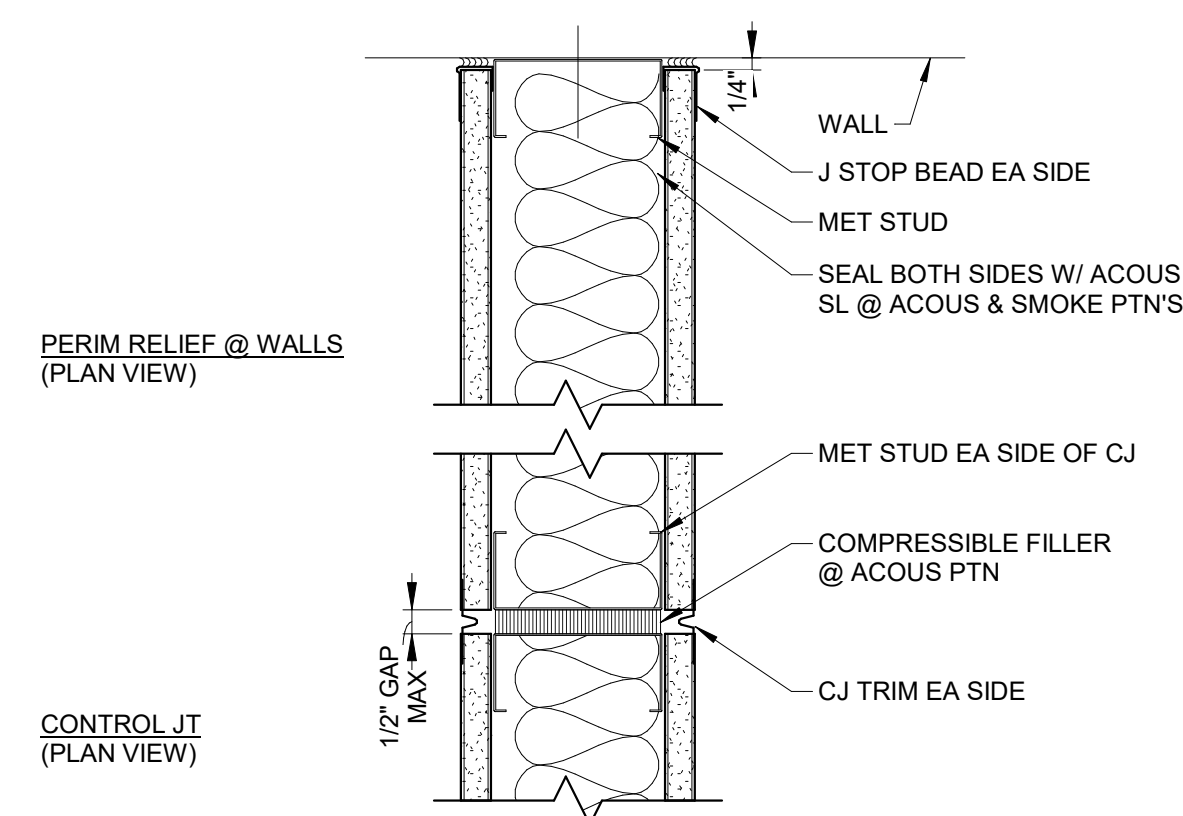
**US Army Corps
of Engineers ®**

[illegible]

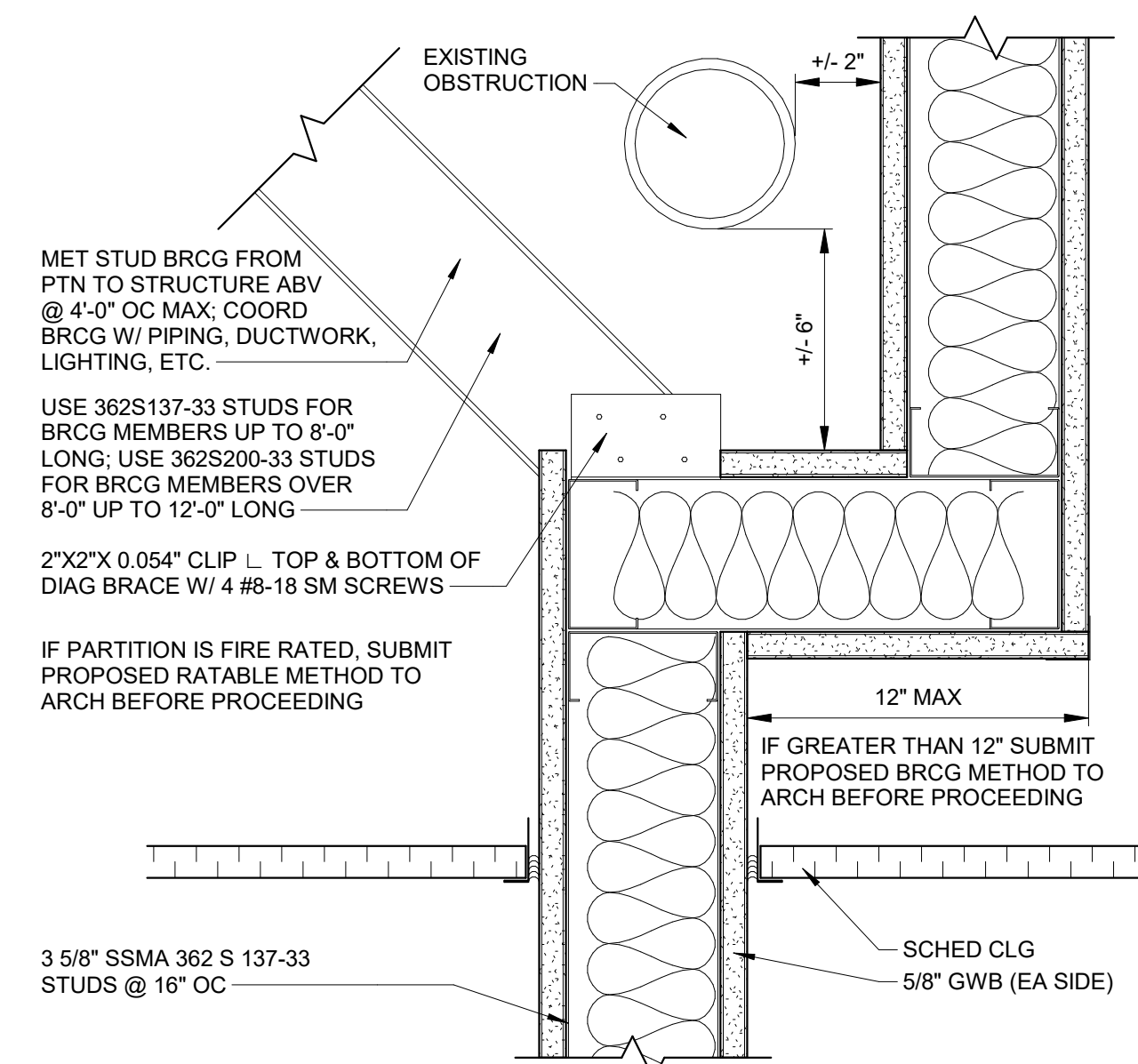
JACOBS / EWING COLE	A Joint Venture	
	PROJECT NO.	W912DS-19-D-0010
	CONTRACT NO.	W912DS-19-D-0010
	SOLICITATION NO.	W912DS-19-D-0010
US ARMY CORPS OF ENGINEERS	EC-UNENR.BT.	DECEMBER 15, 2020
	DRAWN BY:	ECC
	CHECKED BY:	TK
	SUBMITTED BY:	BK
	DATE:	12/15/20
	ANALYST:	

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
PARTITION TYPES/DETAILS

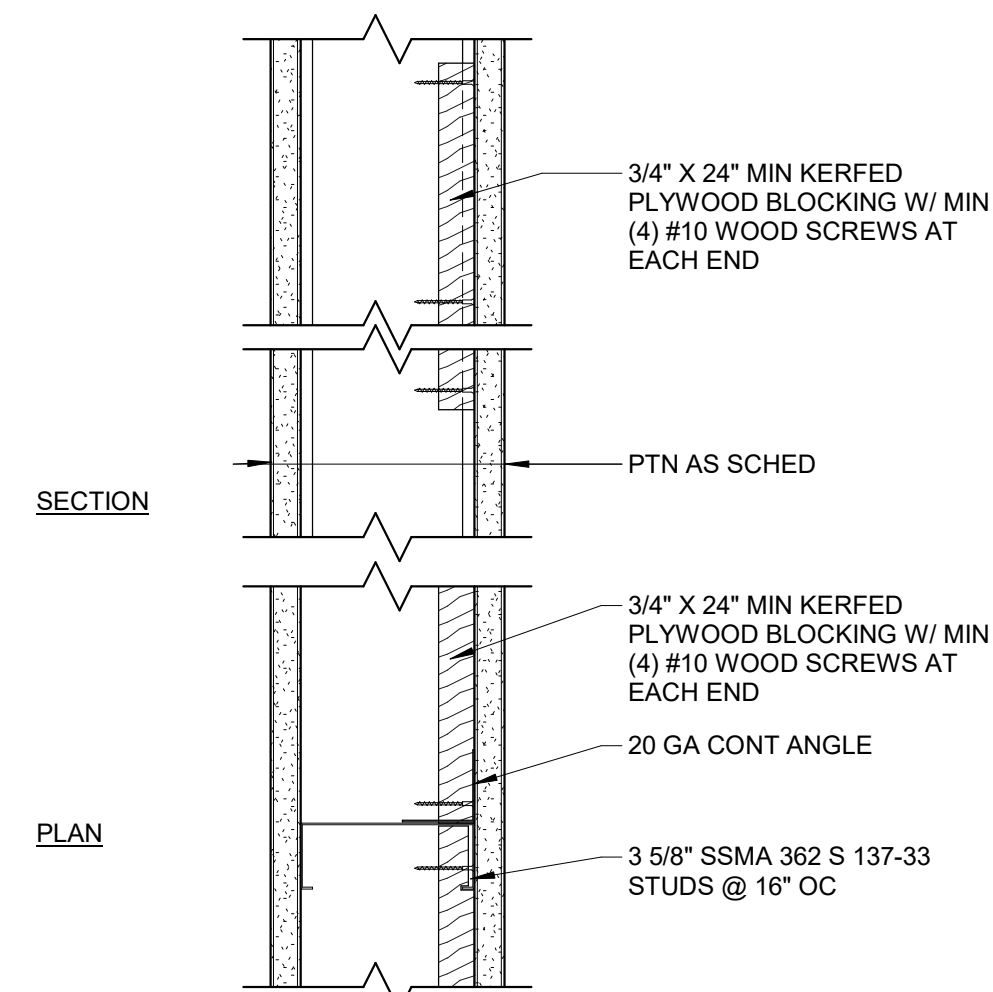
SHEET ID
A-602



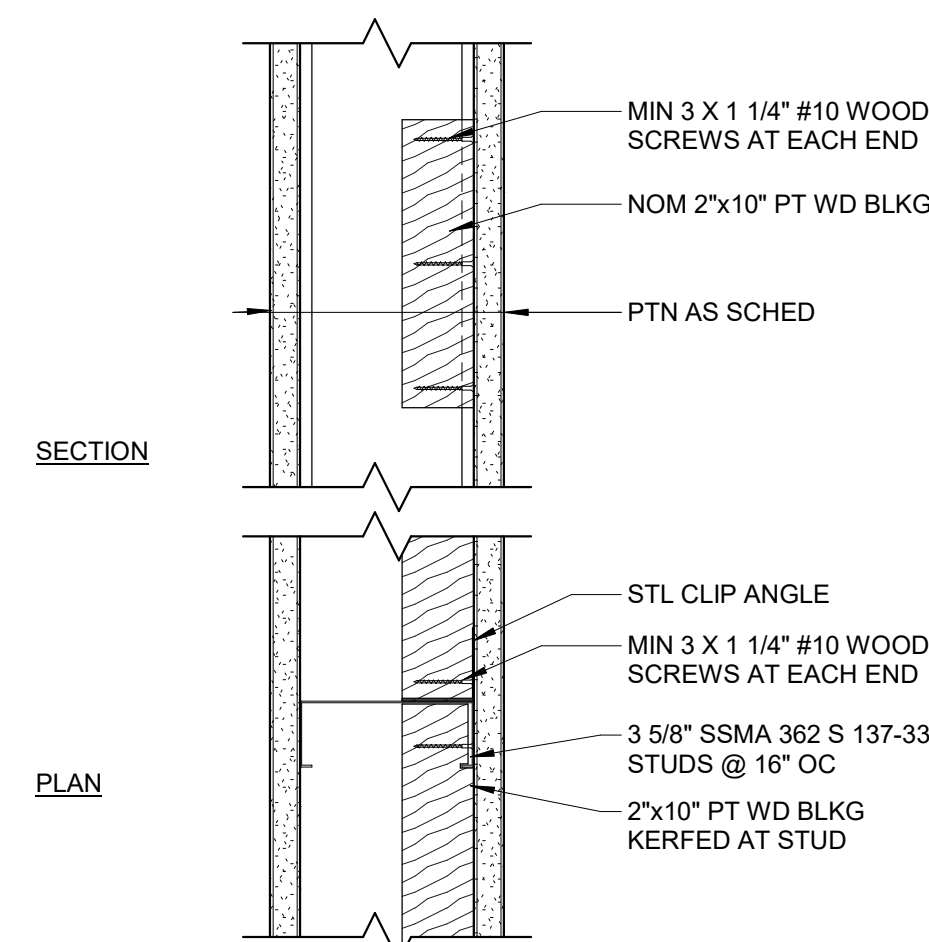
(C6) TYP GWB CONTROL JOINT - NON-RATED
SCALE: 3" = 1'-0"



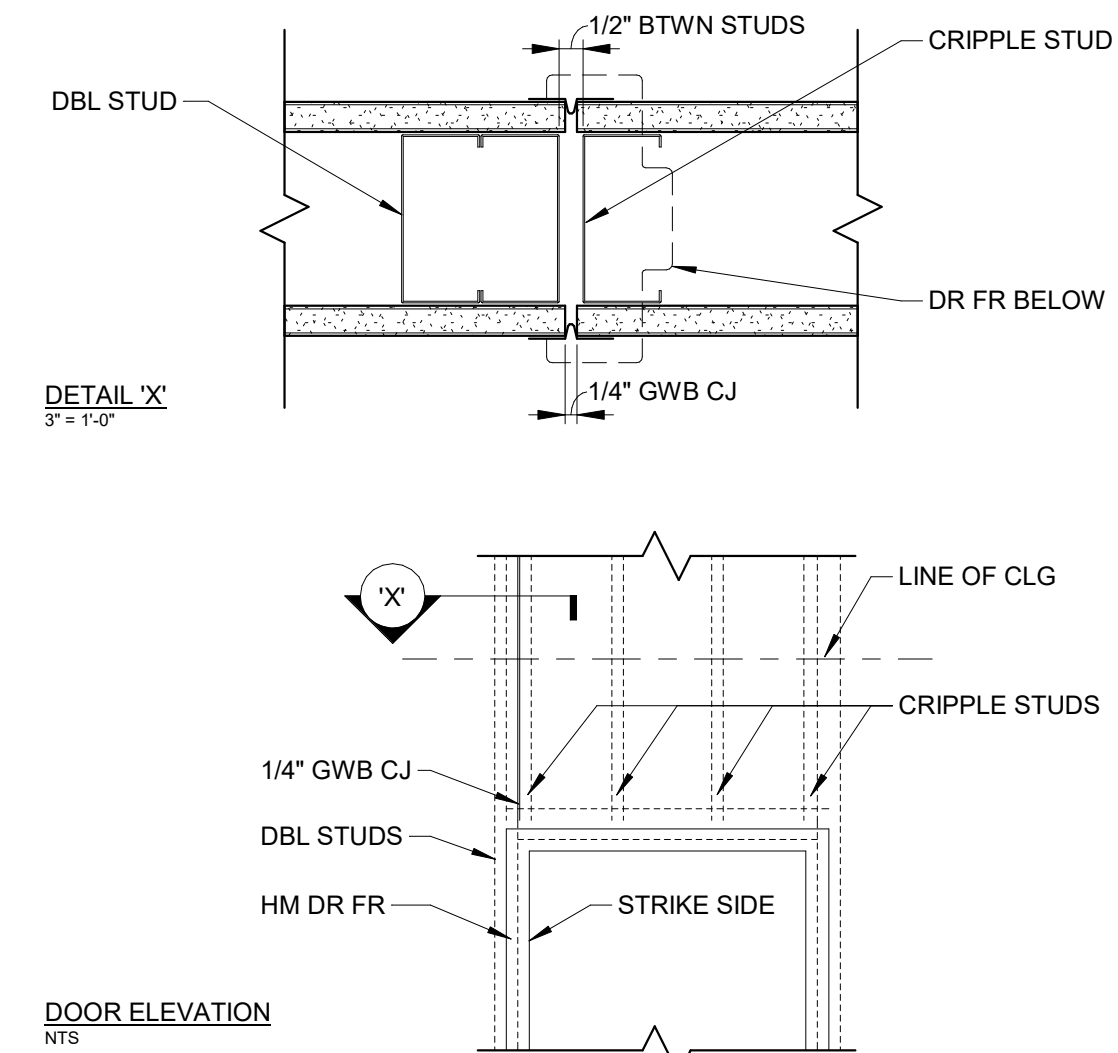
C8 PARTITION FRAMING FOR ABOVE CEILING
OBSTRUCTION - NON RATED
SCALE: 3" = 1'-0"



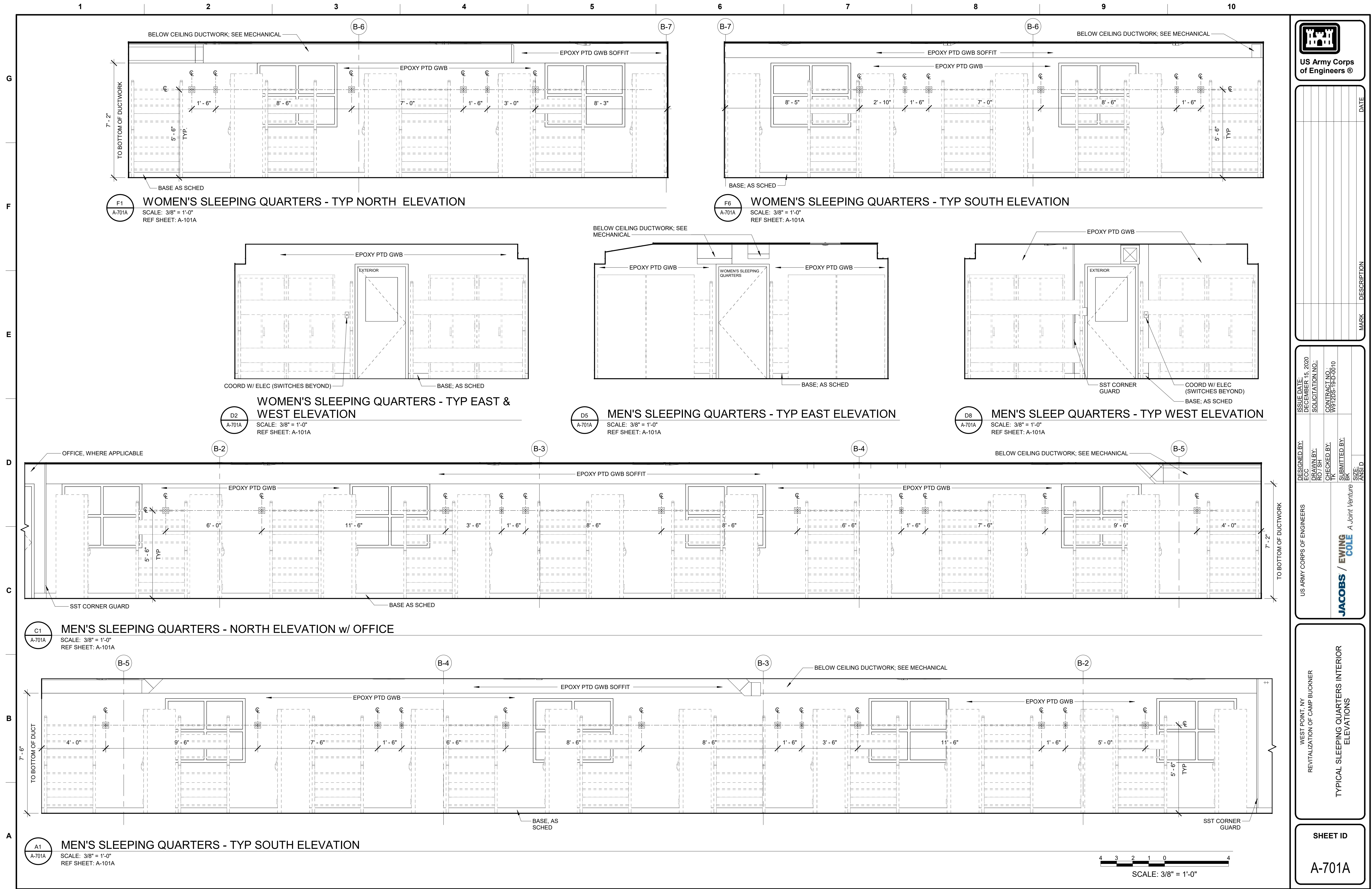
A3 PLYWOOD BLOCKING FOR LOADS UP TO 250LB
SCALE: 3" = 1'-0"




A6 WOOD BLOCKING FOR LOADS UP TO 250LB
SCALE: 3" = 1'-0"



A8 TYP DETAIL OF GWB CJ @ DOOR FRAME
SCALE: 3" = 1'-0"





US Army Corps
of Engineers ®

DATE	

DESCRIPTION	

MARK	

ISSUE DATE: DECEMBER 15, 2020	
DESIGNED BY: ECC	SOLICITATION NO.:
DRAWN BY: JAC	CONTRACT NO.:
CHECKED BY: TK	W912DS-19-D-0010
SUBMITTED BY: BJK	
SIZE: A	ANSI D

US ARMY CORPS OF ENGINEERS

JACOBS / EWING COLE A Joint Venture

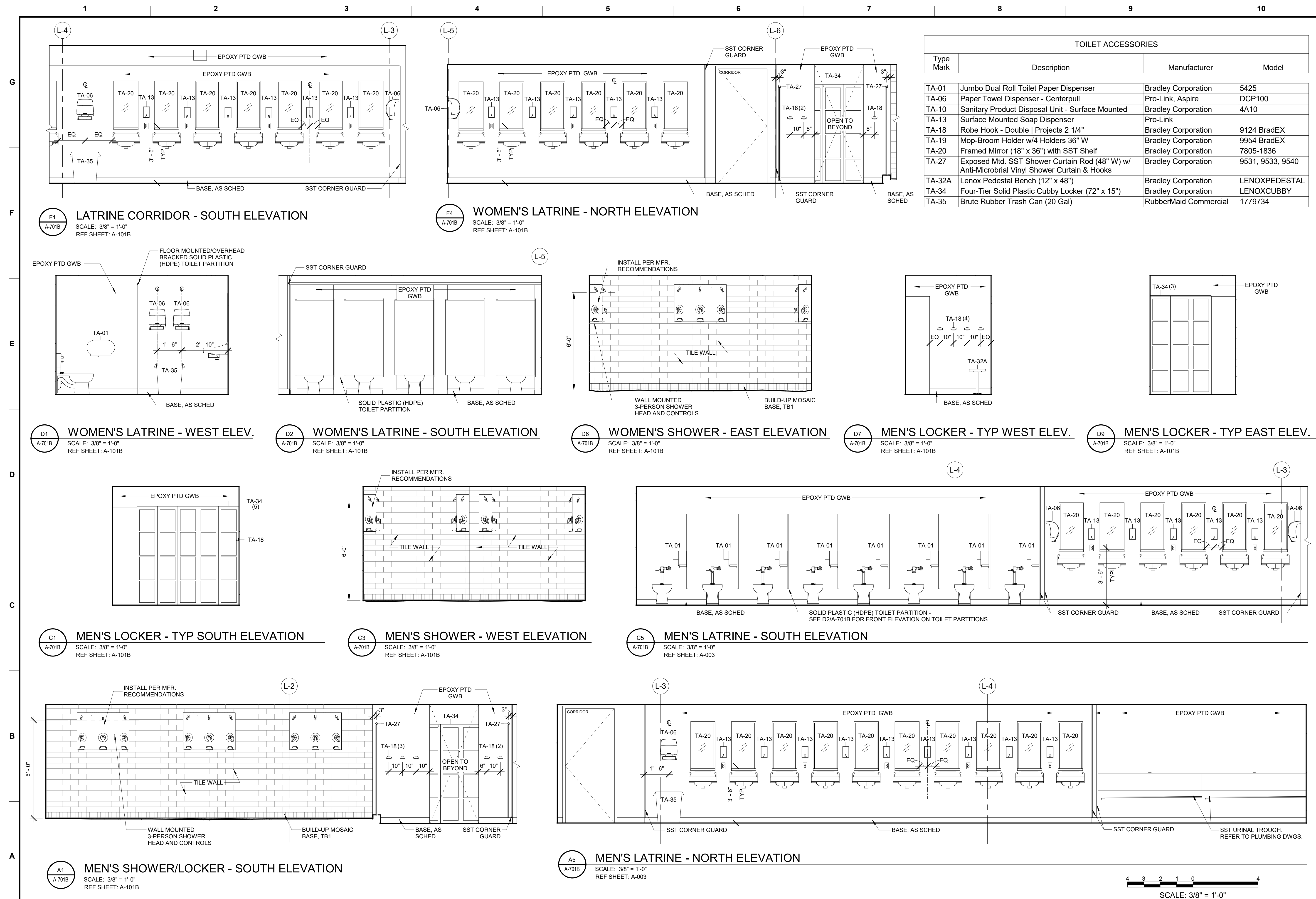
WEST POINT, NY

REVITALIZATION OF CAMP BUCKNER

TYPICAL SLEEPING QUARTERS INTERIOR ELEVATIONS

SHEET ID

A-701A



**US Army Corps
of Engineers®**

DALE

DESCRIPTION

MAXIMA

ISSUE DATE:
DECEMBER 15, 2020
SOLICITATION NO.:

DESIGNED BY: ECC	DRAWN BY: RO / SH
---------------------	----------------------

US ARMY CORPS OF ENGINEERS

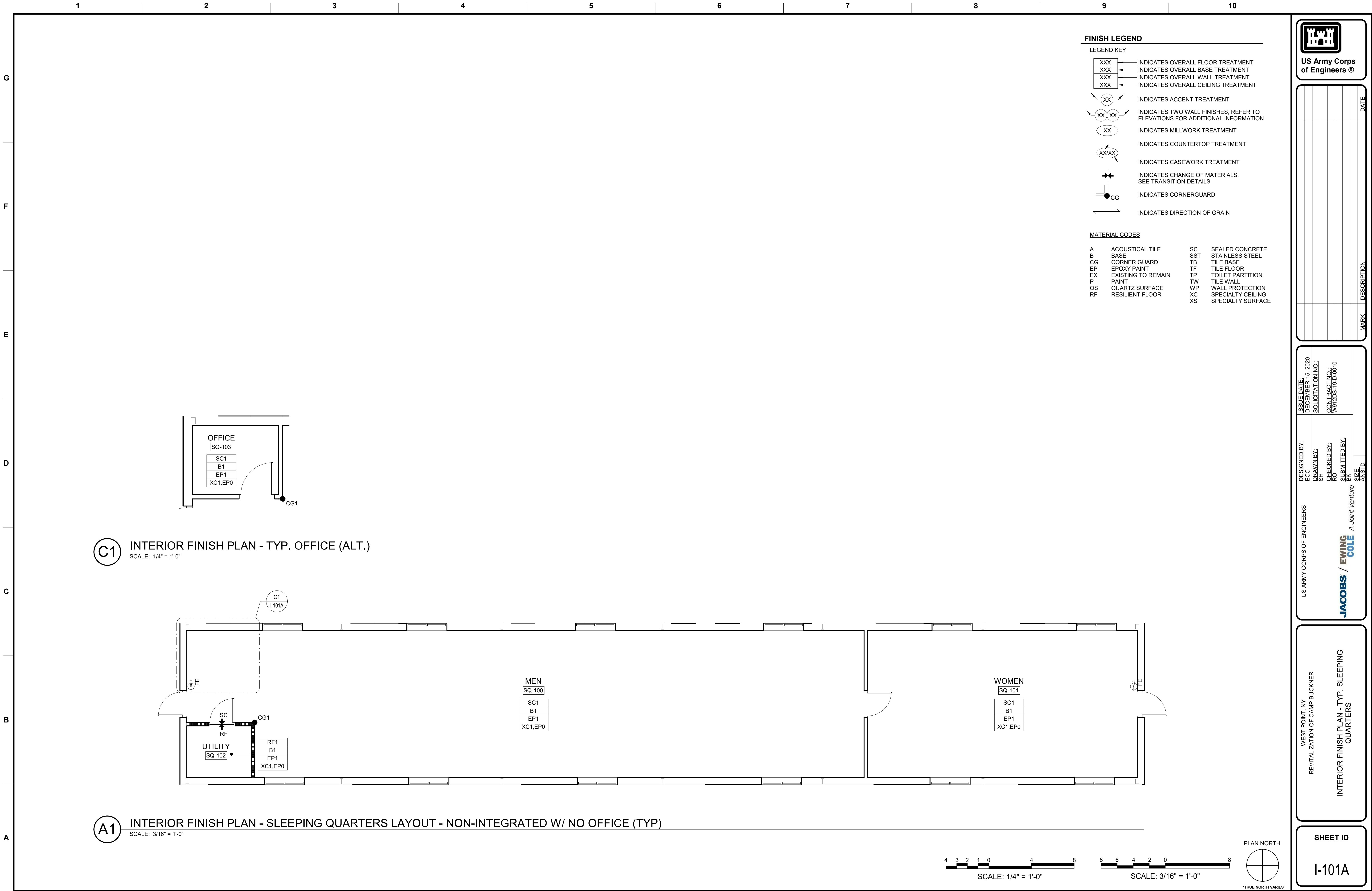
JACOBS / EWING COLE

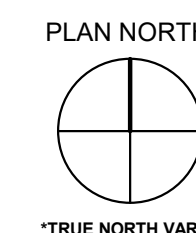
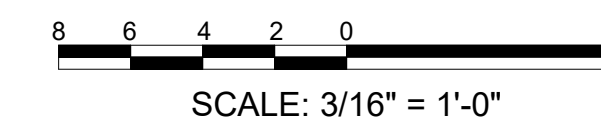
[illegible]

HEET ID

A-701B

RTA SUBMISSION





*TRUE NORTH VAE

FINISH LEGEND

LEGEND KEY

	INDICATES OVERALL FLOOR TREATMENT
	INDICATES OVERALL BASE TREATMENT
	INDICATES OVERALL WALL TREATMENT
	INDICATES OVERALL CEILING TREATMENT
	INDICATES ACCENT TREATMENT
	INDICATES TWO WALL FINISHES. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION
	INDICATES MILLWORK TREATMENT
	INDICATES COUNTERTOP TREATMENT
	INDICATES CASEWORK TREATMENT
	INDICATES CHANGE OF MATERIALS, SEE TRANSITION DETAILS
	INDICATES CORNERGUARD
	INDICATES DIRECTION OF GRAIN

MATERIAL CODES

A	ACOUSTICAL TILE	SC	SEALED CONCRETE
B	BASE	SST	STAINLESS STEEL
CG	CORNER GUARD	TB	TILE BASE
EP	EPOXY PAINT	TF	TILE FLOOR
EX	EXISTING TO REMAIN	TP	TOILET PARTITION
P	PAINT	TW	TILE WALL
QS	QUARTZ SURFACE	WP	WALL PROTECTION
RF	RESILIENT FLOOR	XC	SPECIALTY CEILING
		XS	SPECIALTY SURFACE



**US Army Corps
of Engineers®**

[illegible]

JACOBS / EWING COLE A Joint Venture	DESIGNED BY:		ISSUE DATE:
	ECC		DECEMBER 15, 2020
	DRAWN BY:		SOLICITATION NO.:
	SH		
	CHECKED BY:		CONTRACT NO.:
K		W012DS-19D-0010	
SUBMITTED BY:			
BK			
SIZE:		ANSI D	

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
INTERIOR FINISH PLAN - TYP. LATRINES

SHEET ID

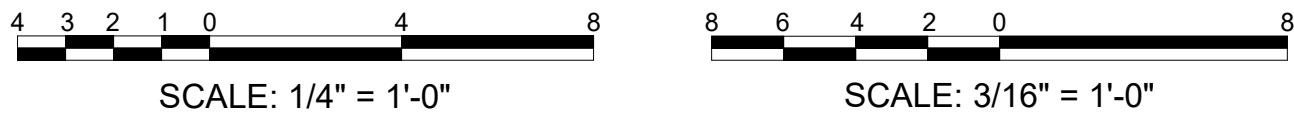
I-101B


RTA SUBMISSION

SLEEPING QUARTER & OFFICE

GENERAL FURNITURE NOTES

1. FURNITURE IS GFGI.
2. FURNITURE IS NOT IN CONSTRUCTION CONTRACT AND IS FOR REFERENCE ONLY.
3. COORDINATE FURNITURE DIMENSIONS AND VERIFY PROPER CLEARANCE NECESSARY FOR PROCURED FURNITURE.







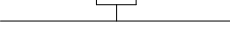


<div> <div>  <div> US Army Corps of Engineers® </div> </div> <div> <div> <div>WEST POINT, NY</div> <div>REVITALIZATION OF CAMP BUCKNER</div> </div> <div> <div>INTERIOR FURNITURE PLAN - TYP. SLEEPING QUARTERS</div> <div>SHEET ID</div> <div>I-131A</div> </div> </div> </div>	<div> <div> <div> <div>DESIGNED BY:</div> <div>ECG</div> </div> <div> <div>DRAWN BY:</div> <div>ST</div> </div> <div> <div>CHECKED BY:</div> <div>RO</div> </div> <div> <div>SUBMITTED BY:</div> <div></div> </div> </div> <div> <div> <div> <div>SIZE:</div> <div>A3</div> </div> <div> <div>DATE:</div> <div>12/15/2020</div> </div> </div> <div> <div> <div> <div>ISSUE DATE:</div> <div>DECEMBER 15, 2020</div> </div> <div> <div>SOLICITATION NO.:</div> <div></div> </div> <div> <div>CONTRACT NO.:</div> <div>W912DS-19-D-0010</div> </div> </div> </div> </div></div>	<div> <div> <div> <div>US ARMY CORPS OF ENGINEERS</div> <div> <div> <div>JACOBS</div> <div>COLE</div> </div> <div>A Joint Venture</div> </div> </div> <div> <div>MARK</div> <div>DESCRIPTION</div> </div> </div> </div>
---	---	---

GENERAL ABBREVIATIONS

A.F.C.	ABOVE FINISHED CEILING	R	REQ.	REQUIRED
A.F.F.	ABOVE FINISHED FLOOR	RPZ	RPZ	REDUCED PRESSURE ZONE
A.F.G.	ABOVE FINISHED GRADE			
AHJ	AUTHORITY HAVING JURISDICTION	S		
AHU	AIR HANDLING UNIT	SF		SQUARE FEET
ARCH.	ARCHITECT	SLV.		SLEEVE
		SP		STANDPIPE
B		SPEC.		SPECIFICATION
BFP	BACK FLOW PREVENTER	SPR		SPRINKLER
BLK	BLACK	STD.		STANDARD
		SYS.		SYSTEM
C				
CL	CENTERLINE	T		
CL.G.	CEILING	TEMP.		TEMPERATURE
CO	CLEANOUT	TS		TAMPER SWITCH
CONC.	CONCRETE	TYP.		TYPICAL
CONN.	CONNECTION			
CONST.	CONSTRUCTION	U		
CONTR.	CONTRACTOR	U.O.N.		UNLESS OTHERWISE NOTED
D				
DEMO.	DEMOLITION	V		
DIA.	DIAMETER	V		VOLT
DN	DOWN			
DW	DOMESTIC WATER	W		
DWG.	DRAWING	WHT		WHITE
DSP	DRY STANDPIPE	WP		WEATHERPROOF
		WSP		WET STANDPIPE
E		SYMBOLS		
(E)	EXISTING	+		DISTANCE DOWN FROM CEILING
E.C.	ELECTRICAL CONTRACTOR			DISTANCE ABOVE FINISHED FLOOR
ELEC.	ELECTRICAL			
ELEV.	ELEVATOR			
(R)	EXISTING RELOCATED			
EQUIP.	EQUIPMENT			
EXP	EXPOSED			
F				
FD	FLOOR DRAIN			
FDC	FIRE DEPARTMENT CONNECTION			
FDV	FIRE DEPARTMENT VALVE			
FDVC	FIRE DEPARTMENT VALVE CABINET			
FEC	FIRE EXTINGUISHER CABINET			
FH	FIRE HYDRANT			
FHC	FIRE HOSE CABINET			
FHR	FIRE HOSE RACK			
FL	FLOOR			
FP	FIRE PUMP			
FS	FLOW SWITCH			
FUT.	FUTURE			
G				
GA.	GAUGE			
G.C.	GENERAL CONTRACTOR			
GPM	GALLON PER MINUTE			
GWB	GYPSUM WALL BOARD			
H				
HP	HORSEPOWER			
HT.	HEIGHT			
HVAC	HEATING, VENTILATING, AIR CONDITIONING			
I				
I.D.	INSIDE DIMENSION			
ITC	INSPECTORS TEST CONNECTION			
K				
KW	KILOWATT			
L				
LT.	LIGHT			
M				
MAX.	MAXIMUM			
MFR.	MANUFACTURER			
MIN.	MINIMUM			
MTD.	MOUNTED			
N				
(N)	NEW			
NC	NORMALLY CLOSED			
NIC	NOT IN CONTRACT			
NO	NORMALLY OPEN			
N.T.S.	NOT TO SCALE			
O				
O.D.	OUTSIDE DIMENSION			
OS&Y	OUTSIDE SCREW & YOKE			
P				
P.C.	PLUMBING CONTRACTOR			
PIV	POST INDICATOR VALVE			
PRV	PRESSURE REDUCING VALVE			
PSI	POUNDS PER SQUARE INCH			
PT	PAINT			

FIRE PROTECTION SYMBOLS

	WET SPRINKLER PIPING
	SERVICE RISER UP/DOWN
	ELBOW DOWN
	NEW SIDEWALL SPRINKLER HEAD
	MONITORED FIRE VALVE
	FLOW SWITCH
	FIRE DEPARTMENT CONNECTION

SYSTEM SUMMARY

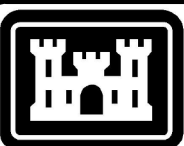
1. OWNER: USMA WEST POINT
2. LOCATION: WEST POINT
3. SYSTEM DESCRIPTION: AUTOMATIC RESIDENTIAL WET-PIPE SPRINKLER SYSTEM THROUGHOUT BARRACKS BUILDINGS.
4. FIRE PROTECTION ENGINEER OF RECORD: JACOBS, ARLINGTON, VA
5. DESCRIPTION OF HAZARDS:
DWELLING UNIT: BARRACKS SLEEPING ROOMS.
ORDINARY HAZARD: UTILITY CLOSETS.
6. FIRE SPRINKLER SYSTEMS - MINIMUM RATE WATER APPLICATION (DENSITY):
DWELLING UNIT : 0.05 GPM/ 4 MOST HYDRAULICALLY DEMANDING HEADS
ORDINARY HAZARD : 0.2 GPM/ ENTIRE COMPARTMENT
7. MAX. AREA OF SPRINKLER COVERAGE:
DWELLING UNIT: PER SPRINKLER HEAD LISTING
ORDINARY HAZARD: 130 SF
8. FIRE SPRINKLER SYSTEM BACKFLOW PREVENTER - A PRESSURE LOSS SHALL BE APPLIED TO THE HYDRAULIC CALCULATIONS MAXIMUM OF MANUFACTURER'S DATA SHEET OR 12 PSI, WHICHEVER IS GREATER.
9. WATER SUPPLY:
9.1 HYDRANT FLOW TEST DATE: 05/20/2020
9.2 TEST CONDUCTED BY: JACOBS ENGINEERING
9.3 LOCATION OF TEST: 1623 MACADAM RD (READ @ HYDRANT CB-006)
9.4 HYDRANT DISCHARGE: 40 PSI AT STATIC; 28 PSI AT 611 GPM (FLOW @ HYDRANT CB-007)
10. DEMAND CALCULATIONS:
10.1 PROJECTED SPRINKLER DEMAND: 25 PSI @ 62GPM
10.2 EXPECTED DOMESTIC DEMAND: 127 GPM
10.3 WATER SUPPLY: 36 PSI @ 189 GPM
10.4 SAFETY FACTOR: 11 PSI
11. HYDRAULIC CALCULATIONS SHALL BE BASED ON FLOW DATA FROM A TEST CONDUCTED WITHIN 12 MONTHS OF DESIGN. CONTRACTOR SHALL PERFORM A NEW FIRE HYDRANT FLOW TEST PRIOR TO SHOP DRAWING SUBMITTALS IF REQUIRED FOR CURRENT FLOW DATA.
12. NOT ALL EQUIPMENT THAT SHALL BE PART OF THE FIRE SPRINKLER SYSTEM IS SHOWN (I.E., PIPE HANGERS, ETC.). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND MATERIALS PER NFPA 13R AND SHOW ON THE SHOP DRAWINGS.
13. FIRE SPRINKLER SYSTEMS - FOR CONTROL VALVES AND FLOW SWITCHES ABOVE HARD CEILING, PROVIDE AN APPROVED ACCESS HATCH WITH PROPER LABELING.

BUILDING CONSTRUCTION CODE DATA

BUILDING CODE: INTERNATIONAL BUILDING CODE (2018 EDITION)
FIRE CODE: NFPA 1 (2018 EDITION)
SITE LOCATION: CAMP BUCKNER, WEST POINT
FIRE SUPPRESSION SYSTEM: [FULLY SPRINKLERED]
PROPOSED WORK SHALL COMPLY WITH: _____
NFPA 13R - 2016 EDITION

GENERAL NOTES

1. DESIGN AND INSTALLATION SHALL BE SUPERVISED BY A CERTIFIED FIRE PROTECTION SPECIALIST WHO IS A PROFESSIONAL REGISTERED FIRE PROTECTION ENGINEER OR WHO IS NICET IV CERTIFIED IN AUTOMATIC SPRINKLER SYSTEM LAYOUT AND SHALL HAVE SERVED IN A SIMILAR CAPACITY FOR AT LEAST THREE SYSTEMS THAT HAVE PERFORMED IN THE MANNER INTENDED FOR A PERIOD OF NOT LESS THAN 6 MONTHS.
2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES (INCLUDING BUT NOT LIMITED TO THOSE SHOWN BELOW), STANDARDS AND LOCAL ORDINANCES HAVING JURISDICTION.
3. APPLICABLE CODES:
NFPA 13 (2016 EDITION)
NFPA 13R (2016 EDITION)
NFPA 72 (2016 EDITION)
NFPA 101 (2016 EDITION)
UNIFORM FACILITIES CRITERIA 3-600-01 (UFC, CHANGE 3 2019 EDITION)
4. CONTRACTOR SHALL PROVIDE A WET PIPE SYSTEM THROUGHOUT WORK AREA, UNLESS STATED OTHERWISE, IN ACCORDANCE WITH THE PROPER OCCUPANCY CLASSIFICATION AND HAZARD RATING PER NFPA 13R. THESE PROVISIONS SHALL INCLUDE COORDINATION OF FIRE SPRINKLER SYSTEM WITH OTHER TRADES.
5. CONTRACTOR IS EXPECTED, AS A REQUIREMENT OF THEIR QUALIFICATIONS, TO UTILIZE THEIR KNOWLEDGE AND EXPERIENCE TO INCLUDE IN THE COST OF ANY WORK OR MATERIALS THAT ARE REQUIRED, BUT NOT SPECIFICALLY EXPRESSED IN THE BID DOCUMENTS.
6. THESE DESIGN DOCUMENTS REPRESENT A DIAGRAMMATIC LAYOUT OF THE SYSTEM AND DO NOT INCLUDE ALL REQUIRED SYSTEM COMPONENTS. PIPE SIZES LISTED ARE A MINIMUM. AT THEIR OWN RISK, THE CONTRACTOR MAY REDUCE THE PIPE SIZES LISTED IF THE PROPOSED SIZES ARE JUSTIFIED BY HYDRAULIC CALCULATIONS AND APPROVED. UNDERGROUND PIPING AND INCOMING MAINS ARE EXISTING TO REMAIN AND MAY NOT BE MODIFIED.
7. CONTRACTOR SHALL PROVIDE TESTING OF THE FIRE SUPPRESSION SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, LOCAL ORDINANCES HAVING JURISDICTION, ENGINEER AND OWNER. PROVIDE ALL APPROVED EQUIPMENT FOR TESTING.
8. WHERE OBSTRUCTIONS TO FIRE SPRINKLER DISCHARGE EXIST, SPRINKLERS SHALL BE LOCATED WITH RESPECT TO THIS OBSTRUCTION IN ACCORDANCE WITH NFPA 13R. THIS INCLUDES FIRE SPRINKLERS BENEATH DUCT WORK AND OTHER OBSTRUCTIONS WIDER THAN 48".
9. CONTRACTOR SHALL COORDINATE FIRE SPRINKLER LOCATIONS WITH ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS.
10. COORDINATE LOCATIONS OF ALL FIRE PROTECTION PIPING WITH BUILDING STRUCTURAL, MECHANICAL, AND ELECTRICAL ELEMENTS INCLUDING, BUT NOT LIMITED TO, STRUCTURAL MEMBERS AND SYSTEMS, AIR DUCTS AND OUTLETS, LIGHT FIXTURES AND SIMILAR EQUIPMENT AND MATERIAL THAT MAY INTERFERE WITH THE PROPER INSTALLATION AND OPERATION OF THESE SYSTEMS. INSTALLATION DRAWINGS SUBMITTED FOR APPROVAL SHALL BE COORDINATED WITH ALL TRADES AND CONTRACTING OFFICER.
11. PROVIDE ALL NECESSARY PARTS, ACCESSORIES AND LABOR TO INSTALL THE NEW SPRINKLER PIPING.
12. REPAIR OR REPLACE ANY COMPONENT/WORK DAMAGED BY THE CONTRACTOR INSTALLING THE FIRE SPRINKLER SYSTEM.
13. PROVIDE SLEEVES FOR ALL PIPING PENETRATING WALLS, FLOORS, AND CEILINGS.
14. SEAL, CAULK AND PROVIDE UL LISTED FIRE STOP SYSTEM AROUND ALL OPENINGS, PENETRATIONS AND SLEEVES THROUGH FIRE RATED WALLS, FLOORS, PARTITIONS, CEILINGS, ETC. UL LABELED AND LISTED FIRE STOP MATERIALS, FIRE STOPS, ETC. SHALL BE USED IN ACCORDANCE WITH THIS REQUIREMENT AND OTHER SPECIFICATIONS SECTIONS.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL NEW BUILDING COMPONENTS AND FINISHES FROM DAMAGE. THE CONTRACTOR SHALL, AT HIS EXPENSE, RESTORE TO ORIGINAL CONDITION AREAS OR FINISHES DAMAGED BY THIS WORK.
16. CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM SHOP DRAWINGS IN ACCORDANCE WITH NFPA 13 AND HYDRAULIC CALCULATIONS SIGNED AND SEALED BY A NICET III OR IV OR PROFESSIONAL ENGINEER. PROVIDE INSTALLATION DETAILS OF SPECIAL CONDITIONS, AND SUBMIT TO THE GOVERNMENT FOR REVIEW. NO WORK SHALL BEGIN WITHOUT APPROVED SHOP DRAWINGS.
17. LOCATION OF FIRE SPRINKLER HEADS: THE SPACING OF SPRINKLER HEADS SHALL NOT EXCEED THAT PERMITTED BY NFPA 13R FOR THE HAZARD OCCUPANCY CLASSIFIED.
18. FOR WET PIPE 2" AND SMALLER, BLACK STEEL PIPING SHALL BE SCHEDULE 40 PIPE. SCHEDULE 40 PIPING SHALL UTILIZE THREADED, WELDED, OR GROOVED CONNECTIONS. THREADING SHALL BE NATIONAL PIPE THREAD (NPT) THREADING. PRESS-FIT FITTINGS SHALL NOT BE UTILIZED.
19. FOR WET PIPE LARGER THAN 2", BLACK STEEL PIPING MAY BE SCHEDULE 10 OR SCHEDULE 40 PIPE. SCHEDULE 10 PIPING SHALL UTILIZE WELDED OR GROOVED CONNECTIONS. THREADING SHALL NOT BE PERMITTED ON SCHEDULE 10 PIPING. PRESS-FIT FITTINGS SHALL NOT BE UTILIZED.
20. ALL SECTIONS OF ALL PIPING SHALL BE PITCHED TO DRAIN. PROVIDE AUXILIARY DRAINS AT END OF LINE WHERE PIPING WILL TRAP WATER. AUXILIARY DRAINS SHALL CONSIST OF A BALL VALVE WITH MALE HOSE THREAD AND CAP. DRAIN LOCATIONS SHALL HAVE A SIGN ATTACHED TO THE FINISHED CEILING STATING "AUXILIARY DRAIN".
21. PIPE AND HANGERS SUPPORTS: PROVIDE PIPE SUPPORTS, HANGERS, AND CLAMPS IN ACCORDANCE WITH NFPA 13R AND UFC 3-600-01.
22. FIRE SPRINKLER HEADS SHALL BE IN CONFORMANCE WITH NFPA 13R. RELEASE ELEMENTS SHALL BE SUITABLE FOR SPECIFIC APPLICATION. PROVIDE QUICK RESPONSE HEADS IN ALL LIGHT HAZARD OFFICE AND ALL OTHER OCCUPANCIES IN WHICH THEIR USE IS LISTED OR APPROVED.
23. PRELIMINARY TESTING: CONTRACTOR SHALL HYDROSTATICALLY TEST ALL WET-PIPE SPRINKLER SYSTEMS, AS REQUIRED BY NFPA 13R, IN THE PRESENCE OF THE CONTRACTING OFFICER OR HIS APPOINTED REPRESENTATIVE.
24. PIPING IDENTIFICATION: EXPOSED SPRINKLER PIPING SHALL BE PAINTED RED. MAIN AND BRANCH SPRINKLER PIPING SHALL BE MARKED WITH SIGNS THAT WRAP AROUND THE PIPE AT INTERVALS OF NOT LESS THAN 20 FEET. SPRINKLER PIPING SIGNS FOR STANDARD PIPING SHALL READ, "FIRE SPRINKLER WATER" AND SPRINKLER DRAINS SHALL READ "FIRE SPRINKLER DRAIN".
25. CLEANING AND PROTECTION: CONTRACTOR SHALL CLEAN DIRT AND DEBRIS FROM FIRE SPRINKLERS AND PIPING.
26. FIRE SPRINKLER PIPE SHALL BE INSTALLED AS HIGH AS POSSIBLE USING NECESSARY FITTINGS TO MAINTAIN MAXIMUM HEADROOM. USE OF AUXILIARY DRAINS AND THEIR LOCATIONS SHALL BE APPROVED BY AHJ AND ENGINEER DURING SHOP DRAWING SUBMITTAL PHASE AND SHALL BE COORDINATED WITH OTHER TRADES.
27. CONTRACTOR SHALL PROVIDE FIRE SPRINKLER SYSTEM SHOP DRAWINGS THAT INCLUDE ALL INFORMATION AS OUTLINED IN SECTION 8.1.7 OF NFPA 13R (2016 EDITION), AS WELL AS WATER SUPPLY INFORMATION AND WATER SUPPLY TREATMENT INFORMATION. THE FIRE SPRINKLER HYDRAULIC CALCULATIONS SHALL INCLUDE A SUMMARY SHEET, GRAPH SHEET AND HYDRAULIC REPORT IN ACCORDANCE WITH SECTIONS 23.3.2, 23.3.3, 23.3.4, 23.3.5 OF NFPA 13 (2016 EDITION).



**US Army Corps
of Engineers ®**

[illegible]

JACOBS / EWING COLE	<i>A Joint Venture</i>	
	SIZE: ANSI/D	SUBMITTED BY: JB
	DRAWN BY: JW	CHECKED BY: JB
	SOLICITATION NO.: DECEMBER 15, 2020	CONTRACT NO.: W91ZDS-16-D-0010

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
FIRE PROTECTION GENERAL NOTES









SHEET ID

FP-001

GENERAL ABBREVIATIONS

A OR AMP	AMPERE	S	SIAM
ACU	AUTONOMOUS CONTROL UNIT	SLC	SIGNALING LINE CIRCUIT
AFB	ABOVE FINISHED CEILING	SLV	SLEEVE
AFF	ABOVE FINISHED FLOOR	SP	STANDPIPE
AFG	ABOVE FINISHED GRADE	SPEC	SPECIFICATION
AHU	AIR HANDLING UNIT	SPR	SPRINKLER
ANN	ANNUNCIATOR	ST	SHUNT TRIP
ARCH	ARCHITECT	SPEP	STROBE POWER EXTENDER PANEL
ARA	AREA OF RESCUE ASSISTANCE	STD	STANDARD
		SW	SWITCH
		SYS.	SYSTEM
B		T	
BKR	BREAKER	TEL	TELEPHONE
BFP	BACK FLOW PREVENTER	TEMP	TEMPERATURE
		TPP	TYPICAL
C		U	
C OR CDT	CONDUIT	U.L.	UNDERWRITER'S LABORATORY
C/B	CIRCUIT BREAKER	U.O.N.	UNLESS OTHERWISE NOTED
CBL	CABLE		
CKT	CIRCUIT	V	VOLT
CL	CENTERLINE	VCC	VOICE COMMAND CENTER
CLG	CEILING		
CO	CLEANOUT	W	WIRE
CONC	CONCRETE	WP	WEATHERPROOF
CONN	CONNECTION	WSP	WET STANDPIPE
CONST	CONSTRUCTION	X	
CONTR	CONTRACTOR	XDR	TRANSDUCER
		XMTR	TRANSMITTER
		XPR	TRANSPONDER
D		SYMBOLS	
DEMO	DEMOLITION	*	DISTANCE DOWN FROM CEILING
DIA	DIAMETER	+	DISTANCE ABOVE FINISHED FLOOR
DISC	DISCONNECT		
DIST	DISTANCE		
DW	DOMESTIC WATER		
DWG	DRAWING		
DP	DISTRIBUTION PANEL		
DSP	DRY STANDPIPE		
E			
(E)	EXISTING		
ELEC	ELECTRICAL CONTRACTOR		
ELEV	ELECTRICAL		
ELEV	ELEVATOR		
EO	ELECTRICALLY OPERATED		
EQUIP	EQUIPMENT		
EX	EXISTING		
F			
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
F.B.O.	FURNISHED BY OWNER		
FD	FLOOR DRAIN		
FDV	FIRE DEPARTMENT VALVE		
FDVC	FIRE DEPARTMENT VALVE CABINET		
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET		
FH	FIRE HYDRANT		
FHC	FIRE HOSE CABINET		
FHR	FIRE HOSE RACK		
FL	FLOOR		
FP	FIRE PUMP		
FS	FLOW SWITCH		
FTR	FIRE ALARM TRANSPONDER PANEL		
FUT	FUTURE		
G			
GA	GAUGE		
GC	GENERAL CONTRACTOR		
GPM	GALLON PER MINUTE		
H			
HP	HORSEPOWER		
HT	HEIGHT		
HVAC	HEATING, VENTILATING, AIR CONDITIONING		
I			
ID	INSIDE DIMENSION		
J			
JB	JUNCTION BOX		
JUNC	JUNCTION		
K			
KW	KILOWATT		
L			
LOC	LOCAL OPERATING CONSOLE		
LT	LIGHT		
LV	LOW VOLTAGE		
M			
MAX	MAXIMUM		
MCB	MAIN CIRCUIT BREAKER		
MFR	MANUFACTURER		
MIN	MINIMUM		
MNS	MASS NOTIFICATION SYSTEM		
MTD	MOUNTED		
N			
(N)	NEW		
NAC	NOTIFICATION APPLIANCE CIRCUIT		
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
O			
OD	OUTSIDE DIAMETER		
P			
PC	PLUMBING CONTRACTOR		
PV	POST INDICATOR VALVE		
PNL	PANEL		
PRV	PRESSURE REDUCING VALVE		
PSI	POUNDS PER SQUARE INCH		
PWR	POWER		
R			
RE	REMOVE EXISTING		
RAP	REMOTE ANNUNCIATOR PANEL		
REQ	REQUIRED		

FIRE ALARM SYMBOLS

	FIRE ALARMASS NOTIFICATION CONTROL PANEL
	MANUAL PULL STATION
	MONITOR MODULE
	CONTROL MODULE
	SMOKE DETECTOR P - PHOTOELECTRIC TYPE
	DUCT SMOKE DETECTOR S - SUPPLY SIDE
	COMBINATION FIRE ALARM AND MNS SPEAKER WITH SEPARATE CLEAR FIRE ALARM STROBE AND AMBER MNS STROBE - WALL MOUNTED
WP (xx)	XX - CANDELA RATING 15cd U.O.N. (ACCOUNT FOR DE-RATING THROUGH AMBER LENS) WP - WEATHER-PROOF
	SPEAKER- WALL MOUNTED
WP	WP - WEATHER-PROOF

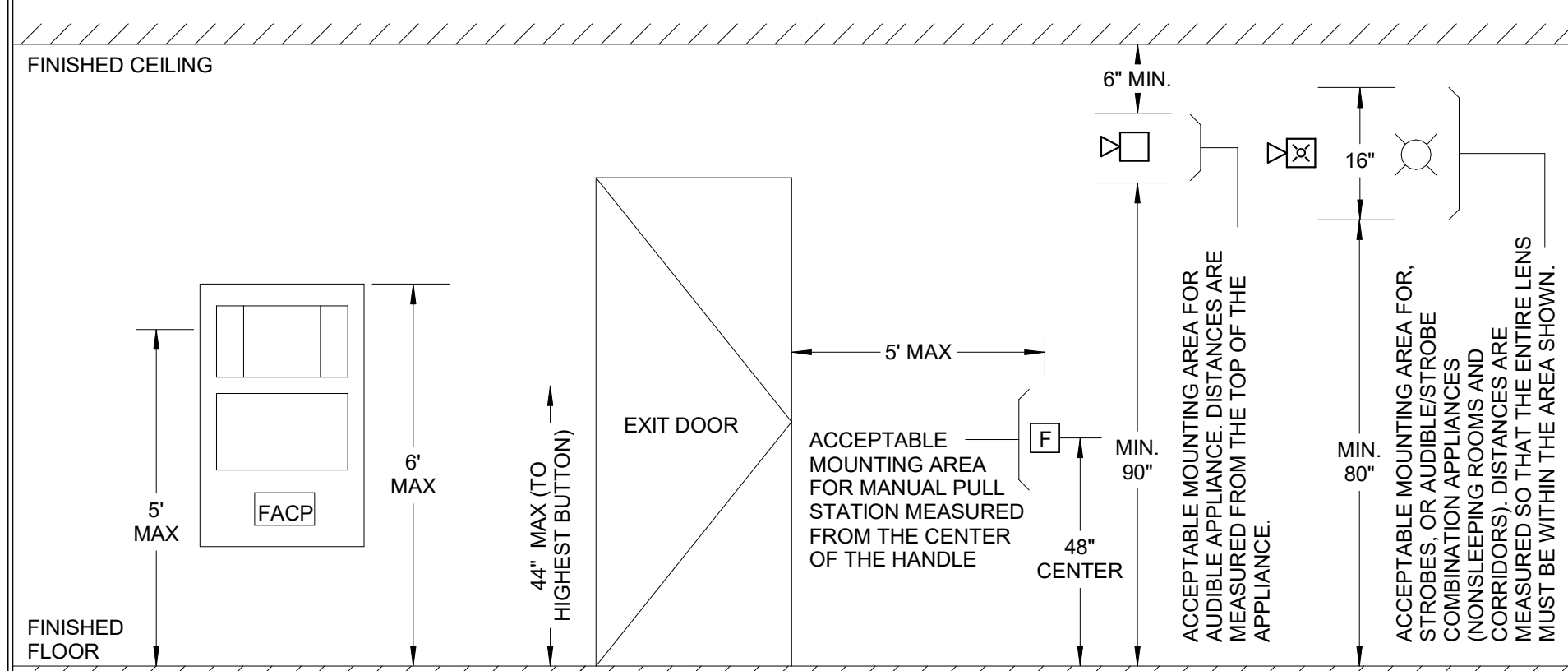
BUILDING CONSTRUCTION CODE DATA

BUILDING CODE:	INTERNATIONAL BUILDING CODE (2018 EDITION)
FIRE CODE:	NFPA 1 (2018 EDITION)
SITE LOCATION:	CAMP BUCKNER, WEST POINT
FIRE ALARM SYSTEM:	ADDRESSABLE FIRE ALARM/MASS NOTIFICATION SYSTEM
<u>PROPOSED WORK SHALL COMPLY WITH:</u> NFPA 72 - 2016 EDITION UFC 4-021-01	

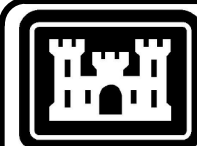
GENERAL NOTES

1. DRAWING KEYNOTES ARE INDICATED ON PLANS BY SYMBOL ①.
2. REFER TO SPRINKLER DRAWINGS FOR EXACT LOCATION AND QUANTITY OF SUPERVISED VALVES AND FLOW SWITCHES.
3. SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72-2016, UFC-3-600-01, AND UFC 4-021-01.
4. LOCATE SMOKE DETECTORS MINIMUM 36 INCHES FROM HVAC DIFFUSERS.
5. LOCATE VISUAL DEVICES A MINIMUM OF 80" ABOVE FINISHED FLOOR OR 6" BELOW THE FINISHED CEILING, WHICHEVER IS LOWER. THE MAXIMUM MOUNTING HEIGHT IS 96" ABOVE FINISHED FLOOR.
6. VISUAL DEVICE CANDELA RATING SHALL BE AS INDICATED ON DRAWING. WHERE TWO OR MORE VISUAL DEVICES ARE IN ANY FIELD OF VIEW THEY SHALL FLASH IN SYNCHRONIZATION.
7. INSTALL ALL WIRING IN MINIMUM 3/4-INCH CONDUIT.
8. ALL DEVICES ARE TO BE PROTECTED DURING CONSTRUCTION.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED DEVICES/APPLIANCES.
10. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
11. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN.
12. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
13. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
14. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
15. THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMAN LIKE MANNER.
16. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED MONACO TECHNICAL REPRESENTATIVE.
17. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
18. THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
19. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NEC.
20. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).
21. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPROPRIATE SECTION OF NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760 SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.
22. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
23. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATE MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLR.
24. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
26. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
27. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
28. MAINTAIN 40 PERCENT (MAXIMUM) CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.

STANDARD MOUNTING HEIGHTS




- NOTES:**
1. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS. SEE INTERIOR ELEVATIONS FOR SPECIFIC MOUNTING HEIGHTS.
 2. DO NOT INSTALL ANY EQUIPMENT OUTSIDE UNLESS IT IS LISTED FOR OUTDOOR USE.
 3. FOR LOW CEILINGS WHERE THE MOUNTING HEIGHTS CAN NOT BE MET, MOUNT THE INDICATING APPLIANCE (EX: SPEAKERS, STROBE) 6" FROM THE CEILING.
 4. MOUNT ALL INDICATING APPLIANCES ON THE WALL, UNLESS INDICATED OTHERWISE.
 5. ALL DEVICE & APPLIANCE HEIGHTS SHOULD BE CONSISTENT FOR THE ENTIRE PROJECT. THE FIRE PANEL SHALL HAVE A MINIMUM 3 FT CLEARANCE FROM THE FRONT OF THE CONTROL EQUIPMENT.



**US Army Corps
of Engineers ®**

[illegible]

 JACOBS / EWING COLE	US ARMY CORPS OF ENGINEERS		DESIGNED BY: JMW	ISSUE DATE: DECEMBER 15, 2020
			DRAWN BY: JMW	
			CHECKED BY: JIB	SOLICITATION NO.:
			SUBMITTED BY:	CONTRACT NO.: W617DS-18-D-0010
		A Joint Venture SPE: ANS/IND		

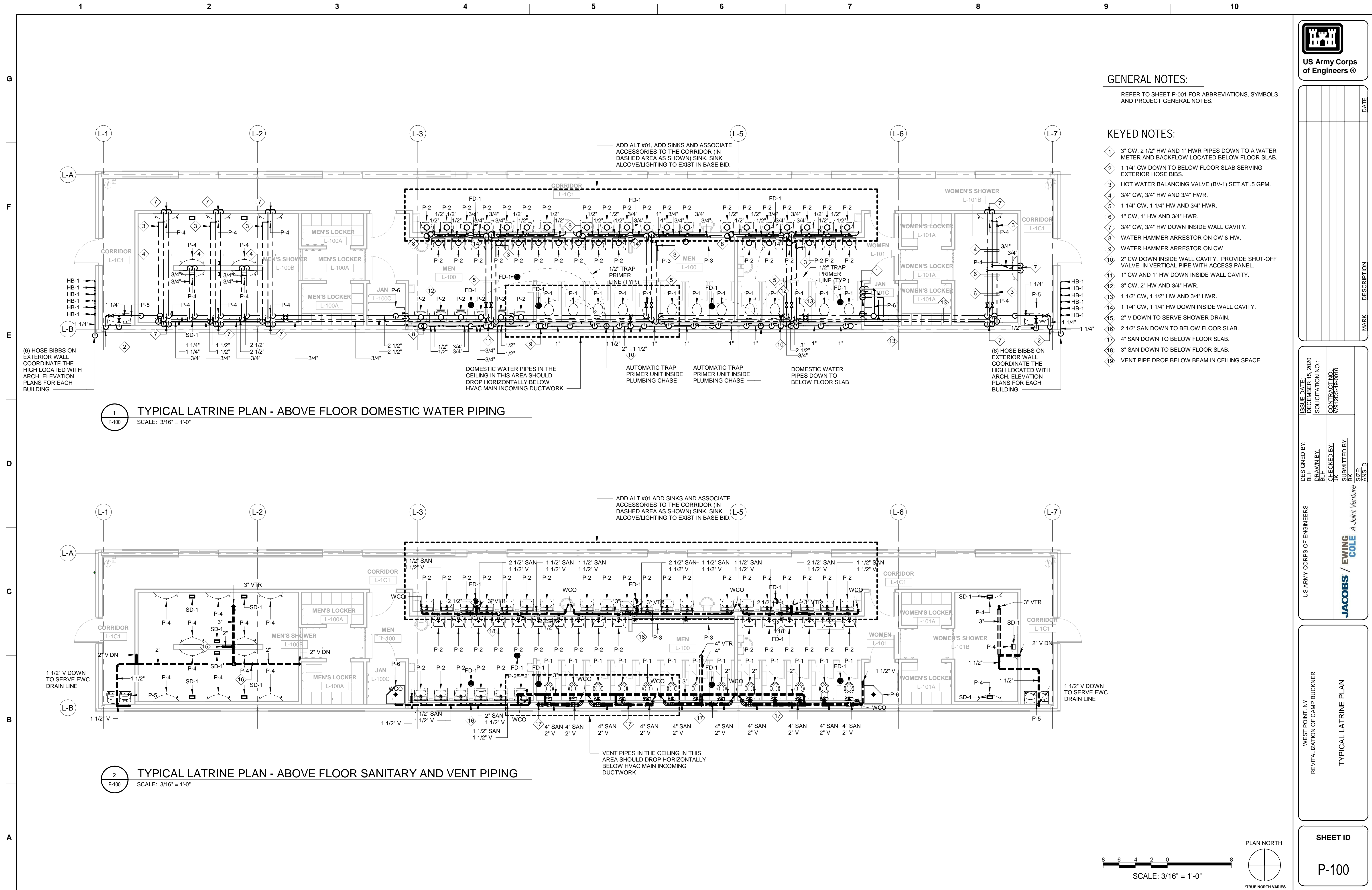
WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

FIRE ALARM GENERAL NOTES

SHEET ID

FA-001







G

PLUMBING FIXTURE SCHEDULE

Type Mark	FIXTURE	MOUNTING	MANUFACTURER NAME & MODEL	MINIMUM CONNECTION SIZE					DESCRIPTION
				SS	V	CW	HW	TW	
P-1	WATER CLOSET	FLOOR MOUNTED	TOILET: AMERICAN STANDARD, MODEL 3690.001, FLUSH VALVE: ROYAL 115-1.28	0"	0"	0"	0"	0"	VITREOUS CHINA, FLOOR MOUNTED WALL OUTLET, 1.28 GPF, ELONGATED BOWL
P-2	LAVATORY	WALL HUNG	SINK: KOHLER, MODEL K-2035-4, FAUCET MODEL LK423L4	1 1/2"	1 1/2"	1/2"	1/2"	0"	VITREOUS CHINA, 4" CENTER, OVAL BASIN WITH OVERFLOW DRAIN
P-3	WASHOUT URINAL	WALL MOUNTED	URINAL: ACORN, MODEL 1713, FLUSH VALVE: MODEL FV1.1.0 GPF	1 1/2"	1 1/2"	3/4"	3/4"	0"	14 GAGE, TYPE 304 STAINLESS STEEL, EXTERIOR SATIN FINISH, DOME STRAINER AND P-TRAP.
P-4	3 SHOWER HEAD UNIT	WALL MOUNTED	BRADLEY, MODEL WS-3W	0"	0"	3/4"	3/4"	0"	18 GAGE, TYPE 304 STAINLESS STEEL, SOAP DISH, 2.0 GPM.
P-5	ELECTRIC WATER COOLER	WALL MOUNTED	HAWSEY TAYLOR, MODEL HTHB-HAC8BLSS-WF	1 1/2"	1 1/2"	1/2"	0"	0"	BI-LEVEL WITH BOTTLE FILLER, SENSOR ACTIVATED
P-6	MOP SINK	FLOOR MOUNTED	FIAT, MODEL TSBCR100					0"	TERRAZZO, 12" HIGH CURBS, STAINLESS STEEL DRAIN BODY
FD-1	FLOOR DRAIN	FLOOR	JOSAM, MODEL 3000-A	3"	1 1/2"	0"	0"	0"	ADJUSTABLE FLOOR DRAIN, ROUND STRAINER
HB-1	HOSE BIBB	WALL MOUNTED	J.R. SMITH, 5670	0"	0"	1/2"	0"	0"	PROVIDE VACUUM BREAKER WITH THE HOSE BIBS.
SD-1	SHOWER DRAIN	FLOOR	JOSAM, MODEL R SERIES	4"	0"	0"	0"	0"	RECTANGULAR DRAIN, SECURED GRATE, VANDAL PROOF SCREWS

F

HOT WATER CIRCULATING PUMP SCHEDULE

Type Mark	LOCATION	BASIS OF DESIGN		SYSTEM	GPM	PUMP HEAD (FT H2O)	ELECTRICAL DATA			NOTES	
		MANUFACTURER	MODEL				RPM	HP	PH		H _z
HWPR-1	BOILER BUILDING	BELL & GOSSETT	E-60 SERIES	DOMESTIC HOT WATER SYSTEM	15	28	1750	0.500	3	60	BRONZEL BODY, INLINE PUMP

E

PLUMBING EXPANSION TANK SCHEDULE

TYPE MARK	LOCATION	BASIS OF DESIGN		SYSTEM	TYPE	TANK VOLUME (gal)	ACCEPTANCE VOLUME (gal)	DIAMETER	HEIGHT	PRESSURE (psi)		NOTES
		MANUFACTURER	MODEL							PRE-CHARGE	MAX OPERATING	
ET-1	BOILER BUILDING	A.O. SMITH	PMET-14	DOMESTIC HOT WATER SYSTEM	PRE-CHARGE D	14.00	10.50	16"	16"	38	150	IAPMO APPROVED

D

MIXING VALVE SCHEDULE

TYPE MARK	LOCATION	BASIS OF DESIGN	SYSTEM	GPM	WATER TEMPERATURE		PIPE SIZE			NOTES
		MANUFACTURER			IN	OUT	CW IN	HW IN	TW OUT	
MV-1	BOILER BUILDING	HOLBY	HOT WATER SYSTEM	126	140 °F	120 °F	2"	2"	2"	CONSTRUCTED ENTIRELY OF BRONZE AND COPPER.

BACKFLOW PREVENTER SCHEDULE

Type Mark	FLOW	CW CONNECTION	MANUFACTURER	MODEL	DESCRIPTION
BFP-1	127 GPM	3"	ZURN	MODEL 375	REDUCED PRESSURE TYPE BACKFLOW PREVENTER, DUCTILE IRON, LEAD FREE CONSTRUCTION

C

WATER HAMMER ARRESTER SCHEDULE

MARK	FIXTURE UNITS	PIPE SIZE	HEIGHT	DIAMETER	NOTES
WHA-A	1-11	1/2"	2.62"	3.25"	COPPER LEAD FREE, PISTON TYPE
WHA-B	12-32	3/4"	2.97"	3.25"	COPPER LEAD FREE, PISTON TYPE
WHA-C	33-60	1"	3.59"	3.25"	COPPER LEAD FREE, PISTON TYPE
WHA-D	61-113	1"	5.14"	3.25"	COPPER LEAD FREE, PISTON TYPE
WHA-E	114-154	1"	5.52"	3.25"	COPPER LEAD FREE, PISTON TYPE
WHA-F	155-330	1"	6.67"	3.25"	COPPER LEAD FREE, PISTON TYPE



B

A



**US Army Corps
of Engineers ®**

[illegible]

 US ARMY CORPS OF ENGINEERS	 JACOBS / EWING COLE		<i>A Joint Venture</i>	
	DESIGNED BY: DEPT. OF THE ARMY BRL		ISSUE DATE: DECEMBER 15, 2020	
	CHECKED BY: JK		SOLICITATION NO.: W912DS-19-0010	
	SUBMITTED BY: SIZE: _____ ANS/D _____			

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER



PLUMBING SCHEDULE

SHEET ID

P-601

REFER TO SHEET P-001 FOR ABBREVIATIONS, SYMBOLS AND PROJECT GENERAL NOTES.

[illegible]

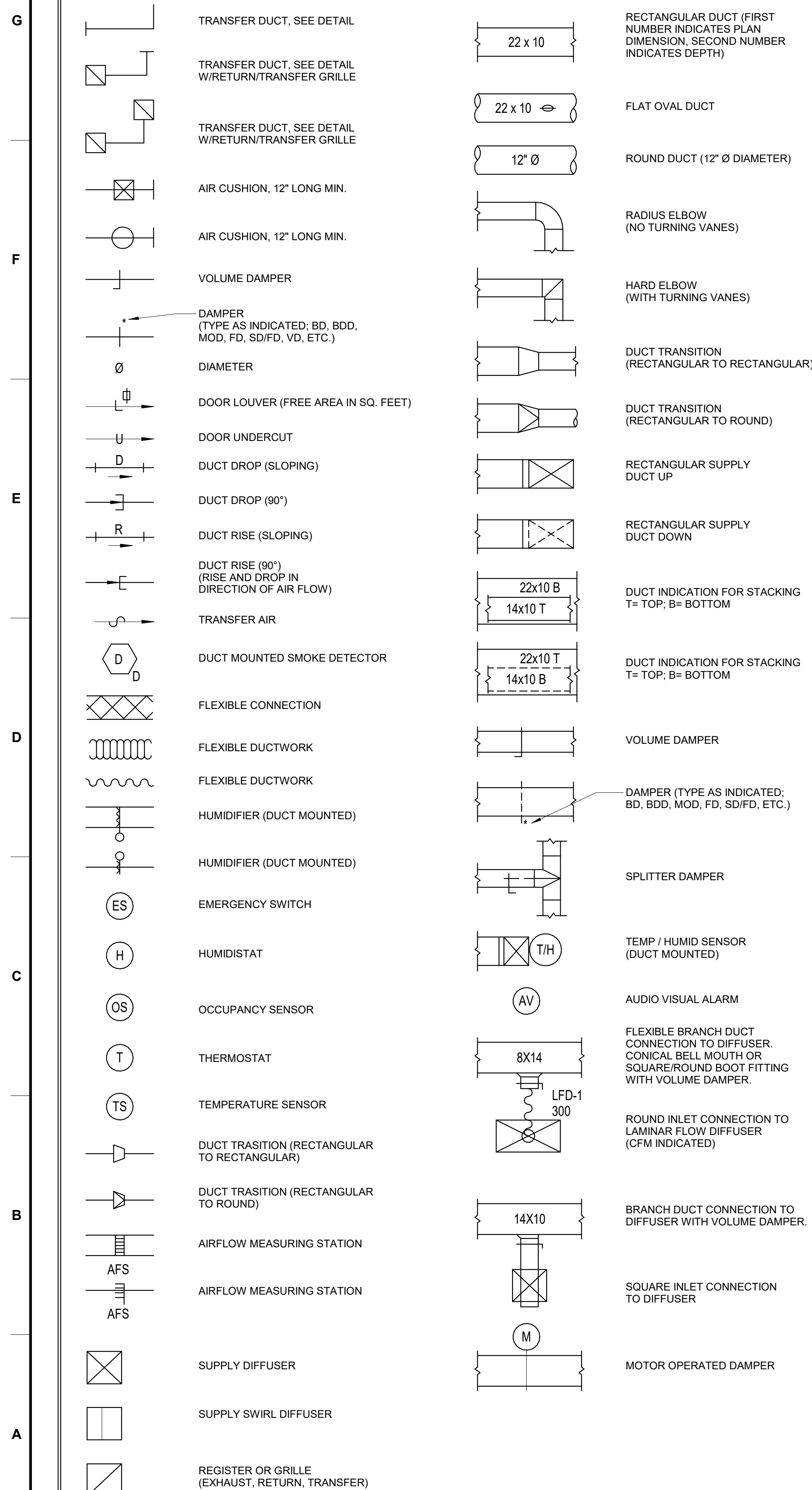
 US ARMY CORPS OF ENGINEERS	 JACOBS / EWING COLE	<i>A Joint Venture</i>	BLH - <u>SIGNED BY:</u> BLH	DECEMBER 15, 2020
			BLH - <u>DRAWN BY:</u> BLH	SOLICITATION NO.: W91ZDS-19-0010
			JK - <u>SUBMITTED BY:</u> JK	CONTRACT NO.: W91ZDS-19-0010
			<u>SIZE:</u> ANSI D	

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
DOMESTIC WATER RISER DIAGRAM

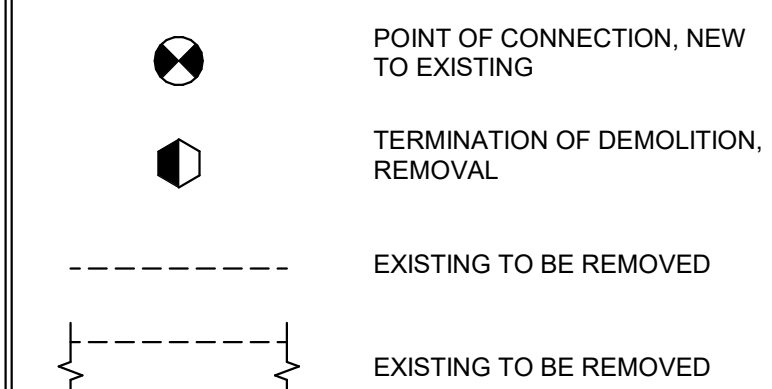
SHEET ID

P-701

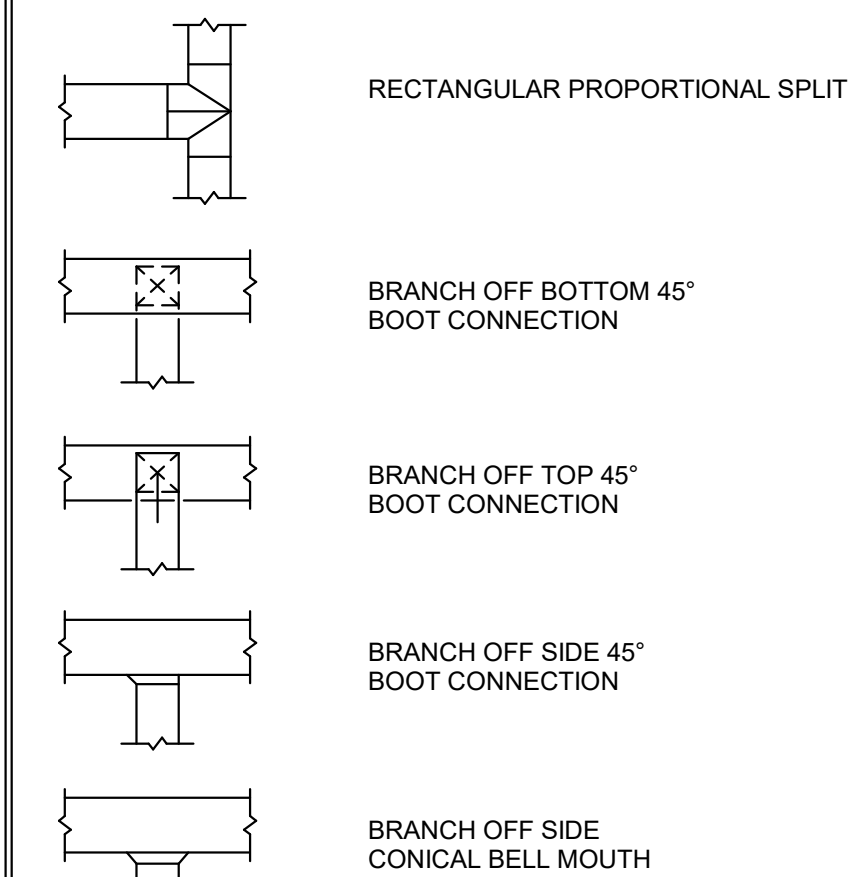
AIR DISTRIBUTION, GENERAL SYMBOLS & NOMENCLATURE



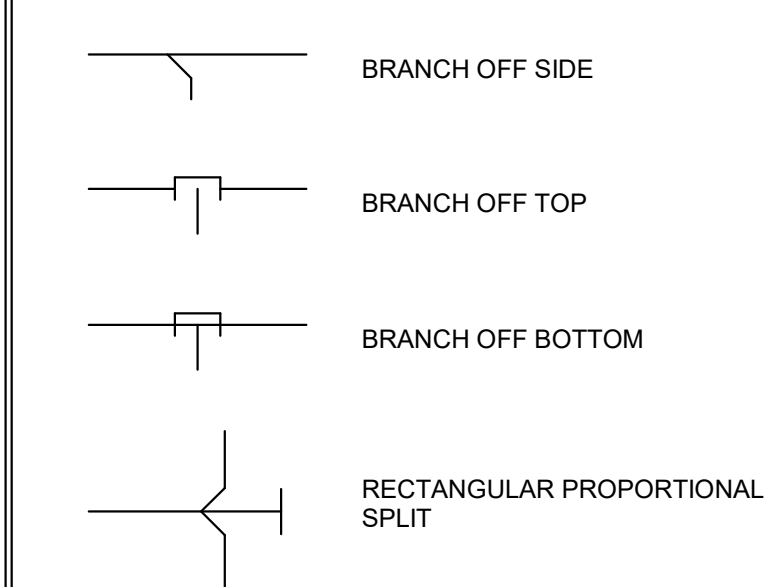
ALTERATION/DEMOLITION SYMBOLS



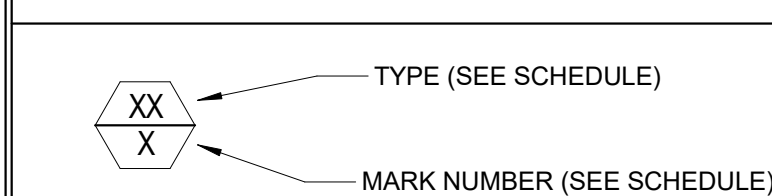
BRANCH CONNECTIONS IN DOUBLE-LINE DUCTWORK



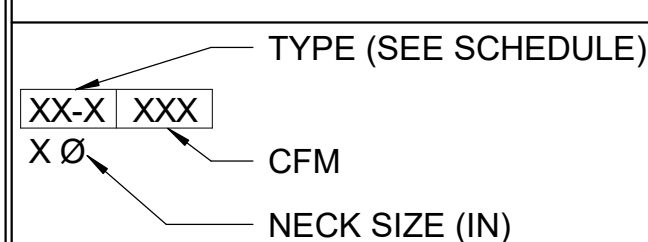
BRANCH CONNECTIONS IN SINGLE-LINE DUCTWORK



EQUIPMENT IDENTIFICATION



AIR TERMINAL IDENTIFICATION



GENERAL ABBREVIATIONS

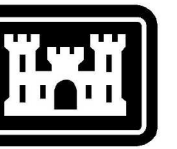
A	AD	ACCESS DOOR	E	EA	EXHAUST AIR	I	INF	INFILTRATION	S	SA	SUPPLY AIR
A	AFF	ABOVE FINISHED FLOOR	E	EAC	EXHAUST AIR CONTROLLER				S	SAC	SUPPLY AIR CONTROLLER
A	AFS	AIR FLOW MEASURING STATION	E	EAT	ENTERING AIR TEMPERATURE	L			SAT	SAT	SOUND ATTENUATOR
A	AHU	AIR HANDLING UNIT	E	EF	EXHAUST FAN	LAT		LEAVING AIR TEMPERATURE	SD	SD	SMOKE DAMPER WITH ACCESS DOOR
A	AL	ACOUSTIC LINING	E	EG	EXHAUST GRILLE	LB		POUND	SD/FD		COMBINATION SMOKE/FIRE DAMPER
A	AP	ACCESS PANEL	E	EJ	EXPANSION JOINT	LF		LINEAR FEET			WITH ACCESS DOOR
A	ATC	AUTOMATIC TEMPERATURE CONTROL	E	EJB	EXPANSION JOINT, BELLOWS TYPE	LFD		LAMINAR AIRFLOW DIFFUSER	SG	SG	SUPPLY GRILLE
A	AVB	AIR VOLUME CONTROL BOX	E	EJO	EXPANSION JOINT, OFFSET TYPE	LWT		LEAVING WATER TEMPERATURE	SR	SR	STATIC PRESSURE
A	AWT	AVERAGE WATER TEMPERATURE	E	EL	ELEVATION				SR	SR	STATIC REGISTER
			E	ER	EXHAUST REGISTER	M			SS	SS	STAINLESS STEEL
B			E	ERV	EXHAUST ROOF VENTILATOR	MBH		THOUSAND BTU'S PER HOUR	SV	SV	STEAM VENT
B	BD	BAROMETRIC DAMPER	E	ESP	EXTERNAL STATIC PRESSURE	M		MOTOR OPERATED DAMPER			
B	BDD	BACKDRAFT DAMPER	E	EWT	ENTERING WATER TEMPERATURE				T	T	
B	BFP	BACKFLOW PREVENTER	E	EXF	EXFILTRATION	N			TG	TG	TRANSFER GRILLE
B	BHP	BRAKE HORSEPOWER	E	EXH	EXHAUST	N		NEW	TOD	TOD	TOP OF DUCT
B	BOD	BOTTOM OF DUCT				NC		NORMALLY CLOSED	TOP	TOP	TOP OF PIPE
B	BTU	BRITISH THERMAL UNITS	F			NC		NOT IN CONTRACT	TSP	TSP	TOTAL STATIC PRESSURE
B	BTUH	BTU'S PER HOUR	F		DEGREE FAHRENHEIT	NO		NORMALLY OPEN	TTP	TTP	THERMOSTATIC TRAP
			F	FC	FLEXIBLE CONNECTION	NTS		NOT TO SCALE	TTY	TTY	TYPICAL
C			F	FCU	FAN COIL UNIT						
C	CC	COOLING COIL	F	F.D.	FLOOR DRAIN	O			U	U	
C	CD	CEILING DIFFUSER	F	FD	FIRE DAMPER WITH ACCESS DOOR	OA		OUTSIDE AIR	UH	UH	UNIT HEATER
C	CDR	CEILING DIFFUSER, ROUND	F	FOB	FLAT ON BOTTOM	OAI		OUTSIDE AIR INTAKE	UTR	UTR	UP THRU ROOF
C	CFM	CUBIC FEET PER MINUTE	F	FOT	FLAT ON TOP	OBD		OPPOSED BLADE DAMPER			
C	CL	CENTERLINE	F	FFM	FEET PER MINUTE				V	V	
C	CUH	CABINET UNIT HEATER	F	FTR	FINNED TUBE RADIATION	P		PANEL DIFFUSER	V	V	VENT
C	CVR	CONSTANT VOLUME EXHAUST	F	FZP	FREEZE PROTECTION PUMP	PD		PANEL DIFFUSER	VAV	VAV	VARIABLE AIR VOLUME
C	CVR	CONSTANT VOLUME RETURN				PDF		PERFORATED FACE DIFFUSER	VD	VD	VOLUME DAMPER
C	CVS	CONSTANT VOLUME SUPPLY	G			PFG		PERFORATED FACE GRILLE	VI	VI	VIBRATION ISOLATOR
			G	GAL	GALLONS	PHC		PREHEAT COIL	VVE	VVE	VARIABLE VOLUME EXHAUST
D			G	GPH	GALLONS PER HOUR	PRV		PRESSURE REDUCING VALVE	VVF	VVF	VARIABLE VOLUME FAN POWERED
D	D	DEAERATOR	G	GPM	GALLONS PER MINUTE	PSI		POUNDS PER SQUARE INCH	VVR	VVR	VARIABLE VOLUME RETURN
D	DB	DRY BULB	G	GR	GRILLE				VVS	VVS	VARIABLE VOLUME SUPPLY
D	DIA	DIAMETER	G	GRV	GRAVITY ROOF VENT	R					
D	DFD	DYNAMIC FIRE DAMPER WITH				RA		RETURN AIR	W	W	
		ACCESS DOOR	H			RG		RETURN GRILLE	WB	WB	WET BULB
DN	DN	DOWN	H	HC	HEATING COIL	RHG		RECTANGULAR FILTER GRILLE	WG	WG	WATER GAUGE
DN	DN	DIFFERENTIAL PRESSURE	H	HP	HORSEPOWER	RH		RELATIVE HUMIDITY			
		TRANSMITTER	H	HX	HEAT EXCHANGER	RHC		REHEAT COIL			
						RPM		REVOLUTIONS PER MINUTE			
						RR		RETURN REGISTER			

GENERAL NOTES - MECHANICAL

1. DUE TO THE SMALL SCALE OF THE DRAWINGS, CERTAIN REQUIRED WORK IS NOT SHOWN ON THE FLOOR PLANS AND IS SHOWN ON RISER DIAGRAMS AND DETAILS. INCLUDE REQUIRED WORK SHOWN ON PLANS, RISER DIAGRAMS, AND DETAILS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, AND FOR EXACT LOCATIONS OF CEILING DIFFUSERS, GRILLES, REGISTERS, AND OTHER DEVICES. PROVIDE BORDER STYLES SUITABLE FOR CEILING TYPE IN WHICH DEVICE IS INSTALLED.
3. DUCTWORK, PIPING, AND EQUIPMENT SHALL ONLY PENETRATE ELECTRICAL, TELEPHONE, DATA, AND ELEVATOR MACHINE ROOMS TO SERVE THOSE SPACES. SERVICES NOT SERVING THOSE SPACES SHALL NOT TRANSIT THROUGH THE SPACES.
4. PROVIDE CABLE OPERATED VOLUME DAMPERS IN BRANCH RUNOUTS TO EACH AIR DEVICE ABOVE INACCESSIBLE CEILING. LOCATE VOLUME DAMPER AS CLOSE TO MAIN AS POSSIBLE.
5. DUCTWORK DRAWINGS ARE DIAGRAMMATIC AND MAY NOT ENTIRELY INDICATE REQUIRED OFFSETS, TRANSITIONS, AND FITTINGS. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, AND FITTINGS AS REQUIRED TO COORDINATE WITH OTHER TRADES.
6. FOR DUCT PENETRATIONS THROUGH INTERIOR NON-RATED FULL HEIGHT PARTITIONS (PARTITIONS EXTENDING TO STRUCTURE), EXTEND INSULATION THROUGH PENETRATION. MAINTAIN COMPLETE VAPOR SEAL.
7. EQUIPMENT LAYOUTS ARE BASED ON EQUIPMENT BASIS OF DESIGN MANUFACTURER. OTHER ACCEPTABLE MANUFACTURERS LISTED IN THE SPECIFICATIONS MAYBE PROVIDED AS LONG AS THEIR PHYSICAL DIMENSIONS DO NOT IMPACT THE EQUIPMENT LAYOUT AS SHOWN. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE LAYOUT TO ENSURE THAT PROPER ACCESS FOR MAINTENANCE AND EQUIPMENT REMOVAL CAN BE MAINTAINED. MAKE NECESSARY DUCTWORK MODIFICATIONS AS REQUIRED AT NO COST TO OWNER.
8. PROVIDE DUCT ACCESS DOORS UPSTREAM OF DUCT MOUNTED EQUIPMENT SUCH AS AIRFLOW STATIONS, HUMIDIFIERS, REHEAT COILS, FILTERS, ETC.
9. PROVIDE DUCT SUPPORTS IN ACCORDANCE WITH SMACNA UNLESS OTHERWISE MODIFIED HEREIN.
10. PROVIDE PIPE SUPPORTS IN ACCORDANCE WITH ANSI/MSS SP-58 UNLESS OTHERWISE MODIFIED HEREIN.

GENERAL NOTES - DEMOLITION

1. FIELD VERIFY EXACT LOCATION AND SIZES OF ELEMENTS RELATED TO THE WORK. ASCERTAIN THAT INTERFERENCES WILL NOT BE ENCOUNTERED, PREVENTING THE DISASSEMBLY OF PARTIALLY OR COMPLETELY ERECTED SYSTEMS FOR RE-ROUTING TO CLEAR OBSTRUCTIONS WHICH MAY EXIST.
2. REMOVE HANGERS, SUPPORTS, MISCELLANEOUS STRUCTURAL STEEL, CONTROLS AND INSTRUMENTATION, CONTROL WIRES AND TUBING, SPECIALTIES, VENTS AND DRAINS, ELECTRICAL POWER, AND OTHER ASSOCIATED ACCESSORIES IN THE PROCESS OF DUCTWORK AND EQUIPMENT DEMOLITION. SUPPORTS FOR DUCTWORK SHOWN TO BE DEMOLISHED THAT PENETRATE THROUGH THE INTERIOR ROOF INSULATION SHALL BE CUT 3" ABOVE INSULATION AND COVERED WITH A PROTECTIVE PLASTIC CAP (BRIGHT ORANGE). EXISTING DUCTWORK SHOWN TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED BACK TO SERVICE MAINS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONTROL WIRING SHALL BE REMOVED BACK TO TERMINATION POINT AT SOURCE PANEL. POWER WIRING SHALL BE REMOVED BACK TO BREAKER AT SOURCE POWER PANEL.
3. PATCH, SEAL, AND FINISH HOLES WHERE DUCTS, LOUVERS, OR OTHER MECHANICAL EQUIPMENT HAS BEEN REMOVED TO MATCH EXISTING WALL MATERIALS AND COLOR.



US Army Corps
of Engineers ®

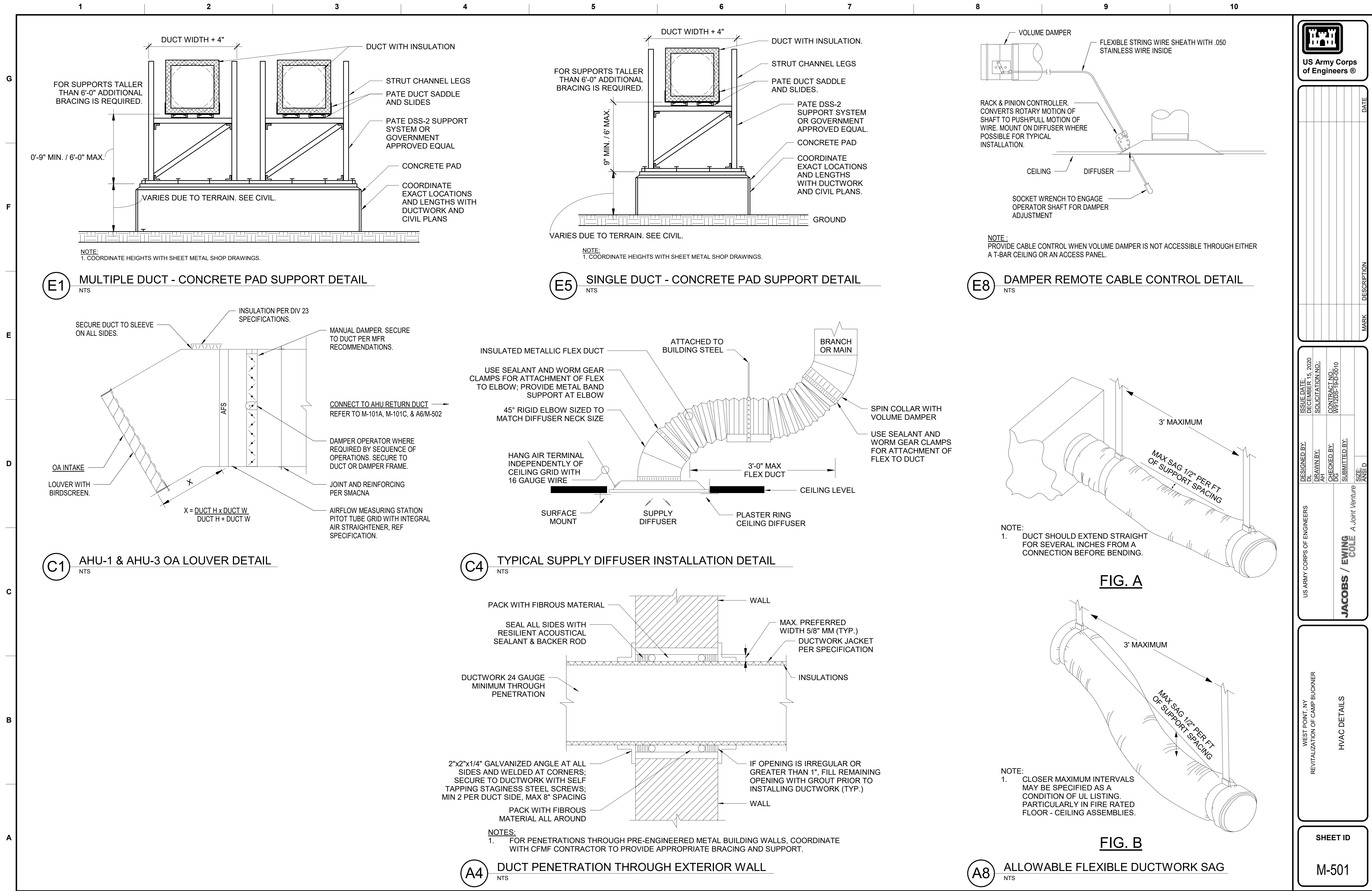
[illegible]

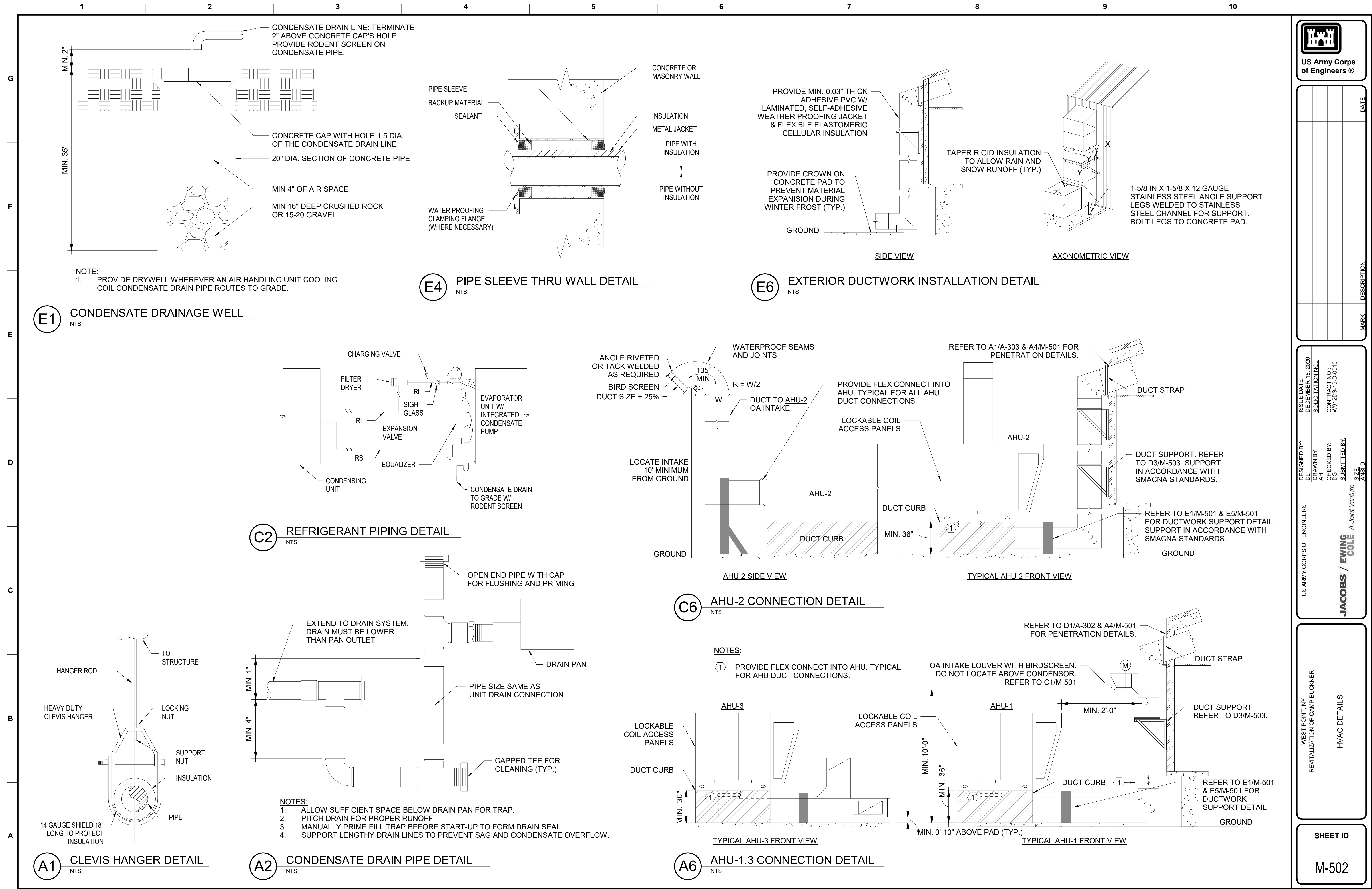
JACOBS / EWING		<i>A Joint Venture</i>
COLE		
DL	DECEMBER 15, 2007	
DRAWN BY:	SOLICITATION NO.:	
CHECKED BY:	CONTRACT NO.:	
DG	W912DS-18-D-0010	
SUBMITTED BY:		
SIZE:	ANSI D	


MECHANICAL LEGEND AND GENERAL NOTES

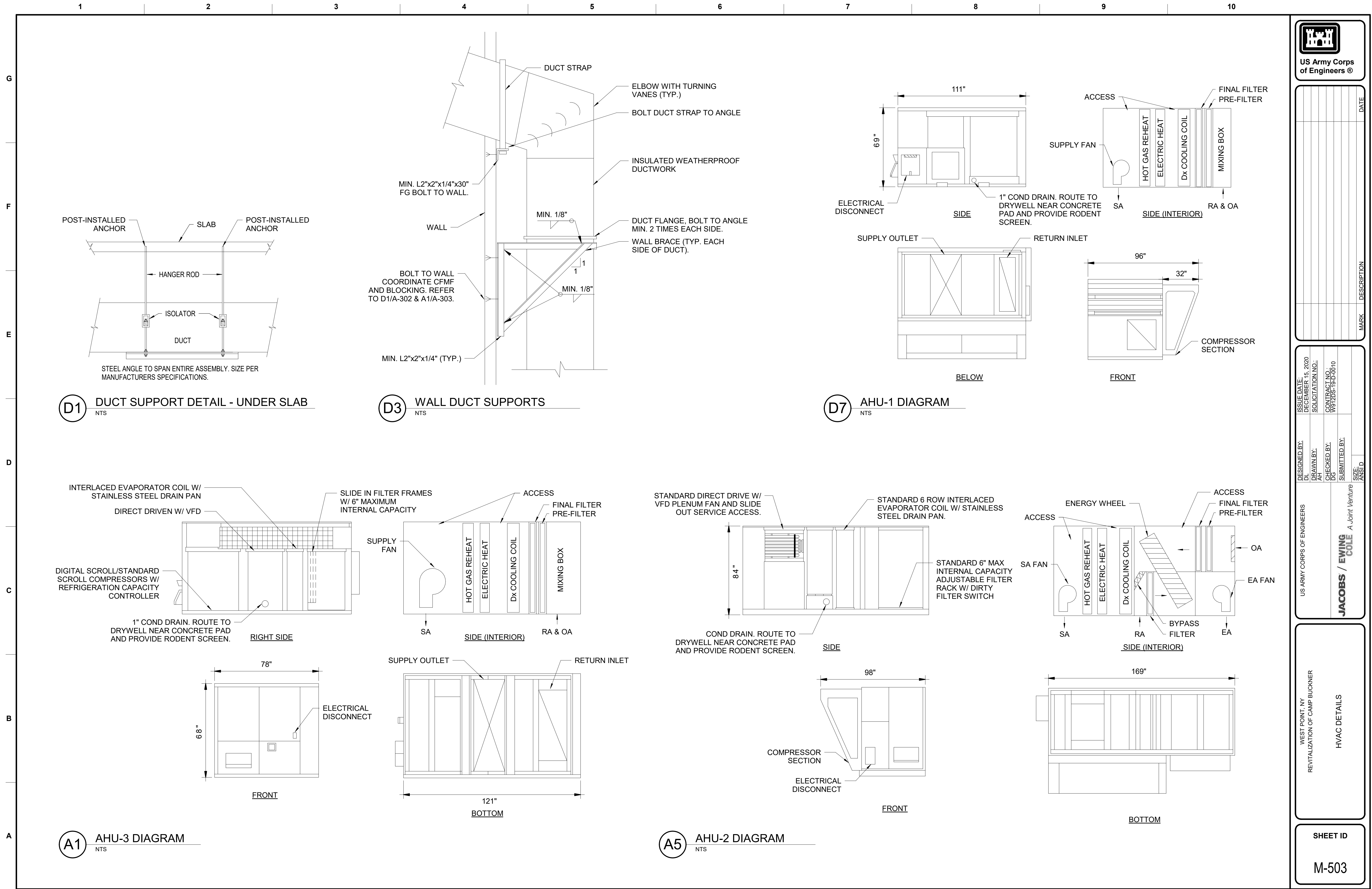
SHEET ID

M-001





 US Army Corps of Engineers ®		DATE
		DESCRIPTION
		MARK
DESIGNED BY: DL	ISSUE DATE: DECEMBER 15, 2020	SHEET ID M-502
DRAWN BY: DL	SOLICITATION NO.: W912DS-19-D-0010	
CHECKED BY: DL	CONTRACT NO.: W912DS-19-D-0010	
SUBMITTED BY: DL	SIZE: ANSI D	
US ARMY CORPS OF ENGINEERS		HVAC DETAILS
WEST POINT, NY REVITALIZATION OF CAMP BUCKNER		
JACOBS / EWING COLE A Joint Venture		RTA SUBMISSION



1	2	3	4	5	6	7
CONTROL SCHEMATIC SYMSBOLS						
	DEVICE SYMBOL, GENERIC USED TO REPRESENT SENSORS, INSTRUMENTS SAFETIES, AND OTHER CONTROL DEVICES W-X-Y-Z (SEE ABBREVIATIONS AND ACRONYMS) GENERIC USAGE TO SHOW LOCATION OF DEVICE, PROCESS OR DEVICE BEING MEASURED OR CONTROLLED, MODIFIERS AND OTHER APPLICATION INFORMATION					
	DEVICE SYMBOL, GENERIC MULTIPLE OUTPUT DEVICE WHERE AT LEAST 1 OUTPUT IS ALWAYS SAFETY INTERLOCK					
	DEVICE SYMBOL, CONTROLLER DDC : DIRECT DIGITAL CONTROL ## : DEVICE NUMBER DIR : DIRECT CONTROL ACTION, OR REV : REVERSE CONTROL ACTION W-X-Y-Z : (SEE ABBREVIATIONS AND ACRONYMS) GENERIC USAGE TO SHOW LOCATION OF DEVICE, PROCESS OR DEVICE BEING MEASURED OR CONTROLLED, SIGNAL TYPE, MODIFIERS AND OTHER APPLICATION INFORMATION					
	ACTUATOR, ELECTRIC					
	AIR FLOW MEASUREMENT ARRAY, WITH FLOW TRANSMITTER SEE "DEVICE SYMBOL, GENERIC"					
	BOILER					
	CHILLER					
	COIL, COOLING					
	COIL, COOLING, DIRECT-EXPANSION					
	COIL, ELECTRIC HEATING					
	COIL, HOT GAS					
	COIL, HEATING					
	COIL, PRECOOL					
	COIL, PREHEAT					
	COIL, STEAM					
	CONTACT, PRESSURE, HIGH LIMIT (HL) SHOWN IN ACTIVATED POSITION CLOSED WHEN PRESSURE IS ABOVE SETPOINT OPEN WHEN PRESSURE IS BELOW SETPOINT					
	CONTACT, PRESSURE, HIGH LIMIT (HL) SHOWN IN ACTIVATED POSITION OPEN WHEN PRESSURE IS ABOVE SETPOINT CLOSED WHEN PRESSURE IS BELOW SETPOINT					
	CONTACT, PRESSURE, LOW LIMIT (LL) SHOWN IN ACTIVATED POSITION CLOSED WHEN PRESSURE IS BELOW SETPOINT OPEN WHEN PRESSURE IS ABOVE SETPOINT					
	CONTACT, PRESSURE, LOW LIMIT (LL) SHOWN IN ACTIVATED POSITION OPEN WHEN PRESSURE IS ABOVE SETPOINT CLOSED WHEN PRESSURE IS BELOW SETPOINT					
	CONTACT, PRESSURE, HIGH LIMIT (HL) SHOWN IN ACTIVATED POSITION OPEN WHEN PRESSURE IS ABOVE SETPOINT CLOSED WHEN PRESSURE IS BELOW SETPOINT					
	CONTACT, PRESSURE, LOW LIMIT (LL) SHOWN IN ACTIVATED POSITION OPEN WHEN PRESSURE IS ABOVE SETPOINT CLOSED WHEN PRESSURE IS BELOW SETPOINT					
	CONTACT, TEMPERATURE, HIGH LIMIT (HL) SHOWN IN ACTIVATED POSITION CLOSED WHEN TEMPERATURE IS ABOVE SETPOINT OPEN WHEN TEMPERATURE IS BELOW SETPOINT					
	CONTACT, TEMPERATURE, HIGH LIMIT (HL) SHOWN IN ACTIVATED POSITION OPEN WHEN TEMPERATURE IS ABOVE SETPOINT CLOSED WHEN TEMPERATURE IS BELOW SETPOINT					
	CONTACT, TEMPERATURE, LOW LIMIT (LL) SHOWN IN ACTIVATED POSITION CLOSED WHEN TEMPERATURE IS BELOW SETPOINT OPEN WHEN TEMPERATURE IS ABOVE SETPOINT					
	CONTACT, TEMPERATURE, LOW LIMIT (LL) SHOWN IN ACTIVATED POSITION OPEN WHEN TEMPERATURE IS ABOVE SETPOINT CLOSED WHEN TEMPERATURE IS BELOW SETPOINT					
	CONTACT, TEMPERATURE, LOW LIMIT (LL) SHOWN IN ACTIVATED POSITION OPEN WHEN TEMPERATURE IS ABOVE SETPOINT CLOSED WHEN TEMPERATURE IS BELOW SETPOINT					
	CONTROL SIGNAL LINE, LOW VOLTAGE					
	CURRENT TRANSFORMER/SWITCH					
	DAMPER, BALANCING					
	DAMPER, PARALLEL BLADE NORMALLY OPEN OR CLOSED AS SHOWN ## = DAMPER NUMBER AS SHOWN IN DAMPER SCHEDULE					
	DAMPER, OPPOSED BLADE NORMALLY OPEN OR CLOSED AS SHOWN ## = DAMPER NUMBER AS SHOWN IN DAMPER SCHEDULE					
	MAIN AIR					
	MOTOR					
	MOTOR STARTER					
	RELAY COIL XX = SEQUENTIAL RELAY (SOLENOID) NUMBER					
	REAL COIL CONTACT NORMALLY OPEN XX = RELAY COIL NUMBER YY = CONTACT NUMBER					
	REAL COIL CONTACT NORMALLY OPEN XX = RELAY COIL NUMBER YY = CONTACT NUMBER					
	FAN					

2P	TWO - POSITION (CONTROL)
ADJ	ADJUSTABLE
AFMA	AIR FLOW MEASUREMENT ARRAY
AI	ANALOG INPUT
ALM	ALARM
AO	ANALOG OUTPUT
BI	BINARY INPUT
BLDG	BUILDING
BLR	BOILER
BO	BINARY OUTPUT
BYP	BYPASS
C	COMMAND (MODULATING CONTROL SIGNAL)
CDO	CONDENSATE OVERFLOW
CF	CONDENSER FAN
CHLR	CHILLER
CLG	COOLING
CO2	CARBON DIOXIDE
COM	COMMON
COMP	COMPRESSOR
CR	CONDENSER/CONDENSATE WATER RETURN
CS	CONDENSER/CONDENSATE WATER SUPPLY
CSR	CURRENT SENSING RELAY
CT	CURRENT TRANSFORMER /SWITCH
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
D	DAMPER
DA	DISCHARGE AIR
DDC	DIRECT DIGITAL CONTROL(LER)
DIFF	DIFFERENCE
DIS	DISABLE
DISP	DISPLAY
DX	DIRECT EXPANSION (UNIT)
EA	EXHAUST AIR
ECM	ELECTRONICALLY COMMUTATED MOTOR
ECO	ECONOMIZER
EF	EXHAUST FAN
EH	ELECTRIC HEAT
EMCS	ENERGY MONITORING AND CONTROL SYSTEM
ENA	ENABLE
ERW	ENERGY RECOVERY WHEEL
ES	END SWITCH
F	FLOW
FAP	FIRE ALARM PANEL
FLT	FILTER
FM	FLOW METER
FZ	FREEZE STAT
FS	FLOW SWITCH
H	HIGH
HG	HOT GAS
HL	HIGH LIMIT
HTG	HEATING
HUM	HUMIDIFIER
HW	HOT WATER
HHWR	HOT WATER RETURN
HHWS	HOT WATER SUPPLY
L	LOW
LDR	LOCAL DISPLAY PANEL
LL	LOW LIMIT
M	MOTOR or MAIN
M&C	MONITORING & CONTROL (SOFTWARE)
MA	MIXED AIR
MINOA	MINIMUM OUTSIDE AIR
MS	MOTOR STARTER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NVI	NETWORK VIRTUAL INPUT
NVO	NETWORK VIRTUAL OUTPUT
OA	OUTSIDE AIR
OCC	OCCUPIED
ODT	ON DELAY TIMER
OWS	OPERATOR WORKSTATION
P	POSITION
PC	PRE-COOLING
PCW	PRIMARY CHILLER WATER
PCWR	PRIMARY CHILLER WATER RETURN
PCWS	PRIMARY CHILLER WATER SUPPLY
PH	PREHEAT
PMP	PUMP
RA	RETURN AIR
REV	REVERSE (CONTROL ACTION)
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RLA	RELIEF AIR
RM	ROOM
RTN	RETURN
S	STATUS
SA	SUPPLY AIR
SF	SUPPLY FAN
SMK	SMOKE
SP	SETPOINT
SS	START/STOP COMMAND
STAT	THERMOSTAT
STM	STEAM
SW	SWITCH
SYS	SYSTEM
T	TEMPERATURE
TAP	TAP PRESSURE
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE

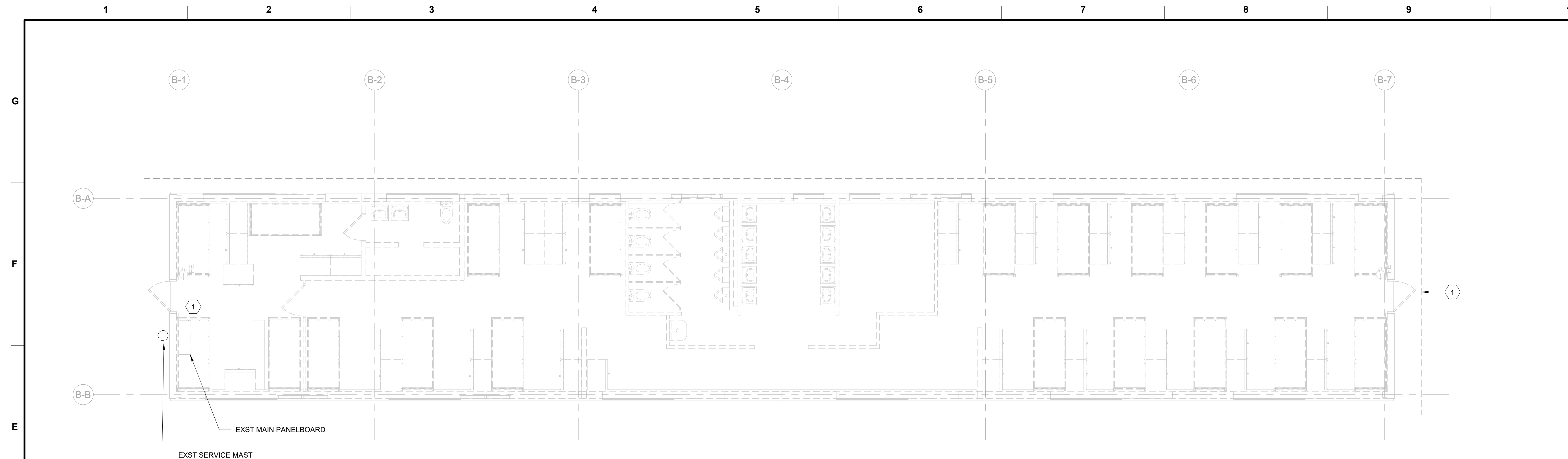
[illegible]

JACOBS / EWING COLLE	A Joint Venture	
	SIZE:	ANSI D
SUBMITTED BY:		
CHECKED BY: DG		
DRAWN BY: HG		
SOLICITATION NO.: DECEMBER 13, 2010		
CONTRACT NO.: W912DS-19-D-0010		

CONTROLS LEGEND

SHEET ID

1-701



GENERAL NOTES

- A. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
- B. INFORMATION INDICATED ON THE DRAWINGS IS BASED ON EXISTING RECORD DOCUMENTATION AND FIELD OBSERVATIONS. FIELD VERIFY EXISTING CONSTRUCTION AND CONDITIONS PRIOR TO PREPARATION OF PROJECT SUBMITTALS. ORDERING OF MATERIALS AND EQUIPMENT, AND NEW WORK CONSTRUCTION. FIELD ISSUES OR EXISTING CONDITIONS AFFECTING WORK UNDER THIS CONTRACT MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- C. ARRANGE AND COORDINATE UTILITY SHUTDOWNS, OUTAGES AND SYSTEM INTERRUPTIONS WITH THE CONTRACTING OFFICER'S REPRESENTATIVE. REQUEST SCHEDULING OF SHUTDOWNS AND OUTAGES AT LEAST 10 WORKING DAYS PRIOR TO DESIRED DATE OF SHUTDOWN/OUTAGE.
- D. WALL AND FLOOR OPENINGS REMAINING FROM REMOVAL OF EXISTING WIRING AND UTILITY SYSTEMS SHALL BE PATCHED AND REINFORCED IN A MANNER APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE TO MAINTAIN THE INTEGRITY OF THE EXISTING CONSTRUCTION.
- E. REFER TO CIVIL UTILITY PLAN CU101 FOR THE FOLLOWING INFORMATION:
1. LOCATIONS AND ORIENTATION OF ALL BUILDINGS IN PROJECT.
 2. LOCATIONS AND DESIGNATIONS OF AIR HANDLER UNITS.
 3. LOCATIONS OF OVERHEAD UTILITY LINES AND POLES.
- NOTE: ELECTRICAL PLAN DRAWINGS REPRESENT THE ELECTRICAL WORK TO BE PROVIDED IN EACH FACILITY. BUT THE FACILITY ORIENTATION AND LAYOUT WILL VARY FROM BUILDING TO BUILDING. COORDINATE ELECTRICAL WORK WITH CIVIL UTILITY PLAN CU101, EXISTING FIELD CONDITIONS, AND BUILDING PLANS ON ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS.

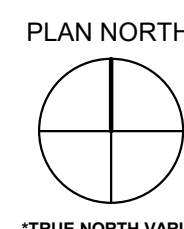
KEYED NOTES

1. FOR THE RENOVATED AREA INDICATED, REMOVE THE FOLLOWING EQUIPMENT:
 - A. ALL RECEPTACLES AND RELATED CONDUITS AND CONDUCTORS BACK TO THE PANELBOARD. ESTIMATED QUANTITY: 30.
 - B. ALL LIGHTING FIXTURES AND RELATED CONDUITS AND CONDUCTORS BACK TO THE PANELBOARD. ESTIMATED QUANTITY: 40.
 - C. MAIN PANELBOARD, RELATED CONDUITS AND CONDUCTORS, SERVICE MAST AND WEATHERHEAD.

NOTE: EXISTING OVERHEAD SERVICE CONDUCTORS WILL BE REMOVED BY CITY LIGHT & POWER (ELECTRICAL UTILITY SERVICE PROVIDER).
2. FOR THE EXISTING ARMS ROOMS IN THE LOWER LEVEL OF BUILDINGS 1612, 1616, AND 1620:
 - A. REMOVE EXISTING WIRING FROM PANELBOARD BACK TO EXISTING SECURITY PANEL TO REMAIN.
 - B. REMOVE EXISTING WIRING FROM PANELBOARD BACK TO ARMS ROOM CONNECTION TO EXISTING LIGHTING AND SWITCHING WIRING TO REMAIN.
 - C. REMOVE EXISTING WIRING FROM PANELBOARD BACK TO EXISTING RECEPTACLES TO BE REMOVED.
 - D. COORDINATE PENETRATIONS OF SLAB TO AVOID EXISTING REINFORCING AND VERIFY PENETRATIONS WITH CONTRACTING OFFICER'S REPRESENTATIVE.
3. MAINTAIN AND PROTECT THE FOLLOWING DURING DEMOLITION AND NEW CONSTRUCTION:
 - A. EXISTING SECURITY PANEL AND RELATED TELEPHONE/ COMMUNICATIONS CABLING TO REMAIN IN SERVICE.
 - B. EXISTING WIRING WITHIN ARMS ROOM FOR EXISTING LIGHTING AND SWITCHING TO REMAIN.

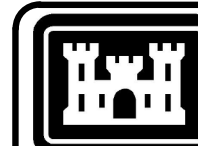


LEVEL 1 DEMOLITION PLAN - POWER AND LIGHTING (ALL EXISTING BARRACKS BUILDINGS)



PLAN NORTH

*TRUE NORTH VARIATION



**US Army Corps
of Engineers ®**

[illegible]

JACOBS / EWING COLE <i>A Joint Venture</i>	DESIGNED BY: W. MCCOY R. HARRIS J. HARRISON	ISSUE DATE: DECEMBER 15, 2020
	CHECKED BY: D. KOLOWITZ	SOLICITATION NO.: CONTRACT NO.: W12DS1900010
SUBMITTED BY:		SIZE: ANSI D

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
20190584
FIRST FLOOR DEMOLITION PLAN - POWER AND
LIGHTING

SHEET ID

ED101

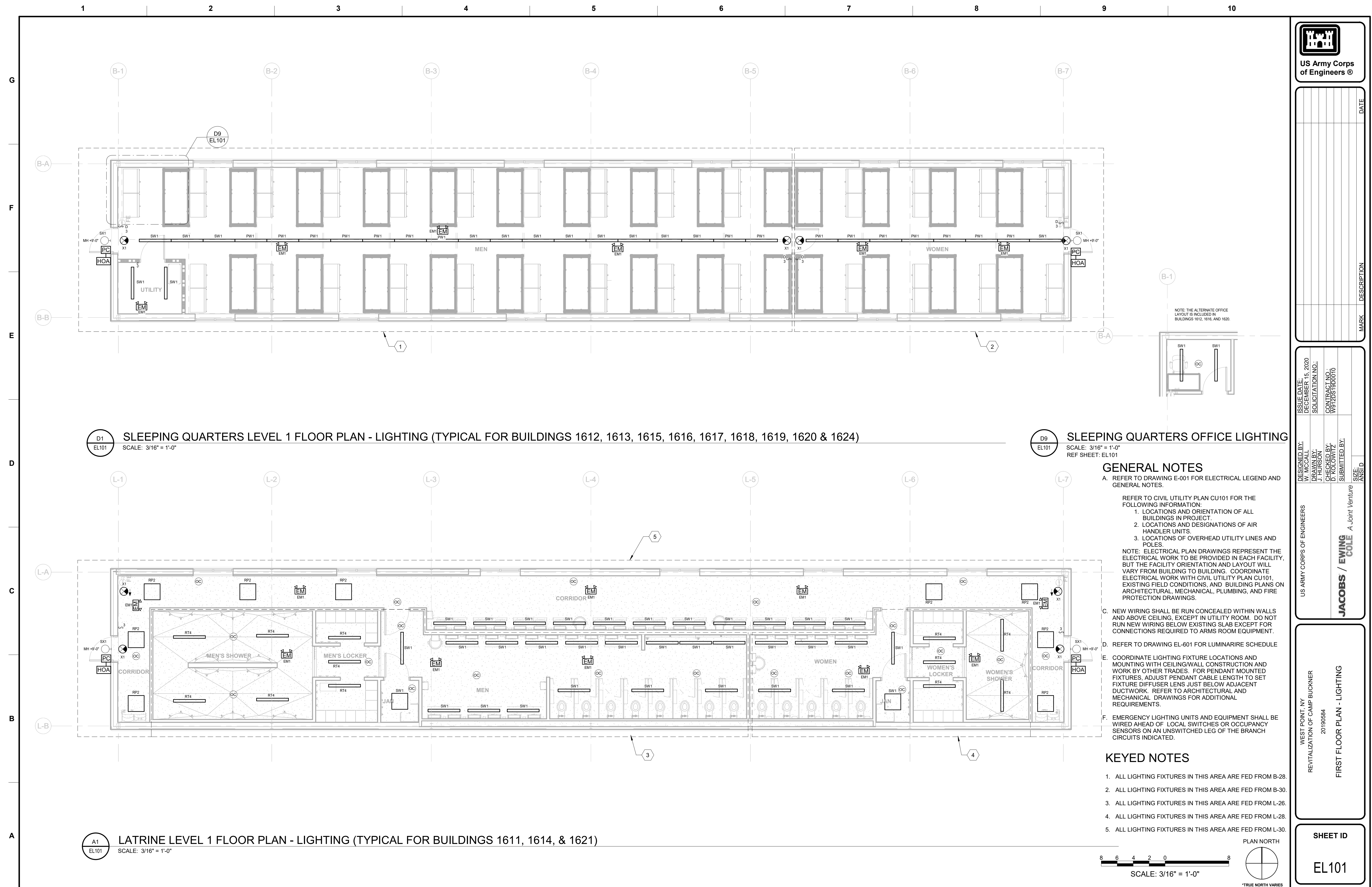
RTA SUBMISSION

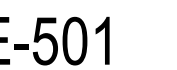


8 6 4 2 0 8

SCALE: $\frac{3}{16}'' = 1'-0''$








SCALE: NONE

GENERAL NOTES

A. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.

[illegible]

 JACOBS / EWING COLE	US ARMY CORPS OF ENGINEERS		DESIGNED BY: W. McCALL	ISSUE DATE: DECEMBER 15, 2020
			DRAWN BY: J. HARRIS	SOLICITATION NO.:
			CHECKED BY: D. KOLOWITZ	CONTRACT NO.: W917ZD519D0010
			SUBMITTED BY:	
			SIZE: ANSI D	
			A Joint Venture	

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
20190584

PANELBOARD SCHEDULES - SLEEPING
QUARTERS BARRACKS

SHEET ID

E-611

RTA SUBMISSION

1

2

3

4

5

6

7

8

9

10

G

F

E

D

C

B

A

PANELBOARD: H

BUILDINGS: 1599, 1622, & 1623

VOLTAGE: 208Y/120

PHASE/WIRE: 3/4

FED FROM: UTILITY SERVICE

(BOILER BLDG)

MOUNTING: SURFACE

NEUTRAL: 100%

DOOR LOCK: YES

GENERAL NOTES: 1,2,3,4,5 & 6

MAIN LUGS RATING: 100

MAIN BKR RATING: 100

TOP OR BOTTOM MAIN: BOTTOM

AIC RATING: 25,000 AMPS

SERVICE ENTRANCE: YES

DESCRIPTION	OPT	LOAD	TRIP	NO.	A	B	C	NO.	TRIP	LOAD	OPT	DESCRIPTION
3#12, #12G, 1°C	3	580	20	1	-A			2	30	0	3	SPD
		580	20	3	-B			4	30	0		
		580	20	5	-C			6	30	0		
3#12,#12N, #12G, 3/4°C	3	10	20	7	-A			8	20	720		EXST RECEPTACLES
		10	20	9	-B			10	20	500		EXST LIGHTING
		10	20	11	-C			12	20			SPARE
SPARE		20		13	-A			14	20			SPARE
SPARE		20		15	-B			16	20			SPARE
SPARE		20		17	-C			18	20			SPARE
SPACE				19	-A			20				SPACE
SPACE				21	-B			22				SPACE
SPACE				23	-C			24				SPACE
SPACE				25	-A			26				SPACE
SPACE				27	-B			28				SPACE
SPACE				29	-C			30				SPACE
N/A - 30 SPACE PANELBOARD				31	-A			32				N/A - 30 SPACE PANELBOARD
N/A - 30 SPACE PANELBOARD				33	-B			34				N/A - 30 SPACE PANELBOARD
N/A - 30 SPACE PANELBOARD				35	-C			36				N/A - 30 SPACE PANELBOARD
N/A - 30 SPACE PANELBOARD				37	-A			38				N/A - 30 SPACE PANELBOARD
N/A - 30 SPACE PANELBOARD				39	-B			40				N/A - 30 SPACE PANELBOARD
N/A - 30 SPACE PANELBOARD				41	-C			42				N/A - 30 SPACE PANELBOARD

TOTAL LOAD PHASE A = 1310 VA = 11 AMPS

TOTAL LOAD PHASE B = 1090 VA = 9 AMPS

TOTAL LOAD PHASE C = 590 VA = 5 AMPS

TOTAL LOAD = 2990 VA = 8 AMPS

OPTIONS:

S - SHUNT TRIP

G - GND FAULT INTERRUPTER

L - LOCK-ON DEVICE

AVG 2 - TWO-POLE BREAKER

3 - THREE-POLE BREAKER

SF-SUBFEED MOUNTING

DATE: 8/13/2020

TIME: 05:18:23 PM

VERSION: 1.0

PANELBOARD ACCESSORIES:

A. 6 INCH FACTORY WIRE GUTTER AT BOTTOM

PANEL BOARD NOTES:

1. BRANCH CIRCUIT WIRING SHALL BE 2#12, #12 GND IN 3/4 INCH CONDUIT, UNLESS NOTED OTHERWISE.

2. NO MORE THAN THREE SINGLE PHASE CIRCUITS PER CONDUIT; SHARED NEUTRALS SHALL NOT BE PERMITTED; REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

3. NEC CIRCUIT GROUND CONDUCTOR SHALL BE PROVIDED IN EACH RACEWAY; 3/4 INCH CONDUIT MINIMUM SIZE; REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

4. REFER TO SPECIFICATIONS FOR METERING AND SURGE PROTECTIVE DEVICE (SPD) EQUIPMENT.

5. PANELBOARD BRANCH CIRCUIT QUANTITY CAPACITY IS 30 MINIMUM.

6. PANELBOARD BUSES SHALL BE COPPER.

PANELBOARD: L

BUILDINGS: 1611, 1614 & 1621

VOLTAGE: 208Y/120

PHASE/WIRE: 3/4

FED FROM: UTILITY SERVICE

(LATRINE)

MOUNTING: SURFACE

NEUTRAL: 100%

DOOR LOCK: YES

GENERAL NOTES: 1,2,3,4 & 5

MAIN LUGS RATING: 225

MAIN BKR RATING: 225

TOP OR BOTTOM MAIN: BOTTOM

AIC RATING: 25,000 AMPS

SERVICE ENTRANCE: YES

DESCRIPTION	OPT	LOAD	TRIP	NO.	A	B	C	NO.	TRIP	LOAD	OPT	DESCRIPTION
2#10,#10G, 3/4°C		180	20	1	-A			2	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	3	-B			4	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	5	-C			6	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	7	-A			8	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	9	-B			10	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	11	-C			12	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	13	-A			14	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	15	-B			16	20	360		RECEPTACLES
2#10,#10G, 3/4°C		360	20	17	-C			18	20	720		RECEPTACLES-EWC
FIRE ALARM PANEL FAMN	L	200	20	19	-A			20	20	720		RECEPTACLES-EWC
SPARE		20		21	-B			22	20	360		RECEPTACLES
SPARE		20		23	-C			24	20			SPARE
SPARE		20		25	-A			26	20	690		LIGHTING
SPARE		20		27	-B			28	20	660		LIGHTING
SPARE		20		29	-C			30	20	450		LIGHTING
		10	20	31	-A			32	20			SPARE
3#12,#12N, #12G, 3/4°C	3	10	20	33	-B			34	20			SPARE
		10	20	35	-C			36	20			SPARE
		16000	175	37	-A			38	30	0		
3#20,#6GND, 2°C	3, SF	16000	175	39	-B			40	30	0	3	SPD
		16000	175	41	-C			42	30	0		

TOTAL LOAD PHASE A = 19600 VA = 163 AMPS

TOTAL LOAD PHASE B = 19190 VA = 160 AMPS

TOTAL LOAD PHASE C = 18980 VA = 158 AMPS

TOTAL LOAD = 57770 VA = 160 AMPS

OPTIONS:

S - SHUNT TRIP

G - GROUND FAULT INTERRUPTER

L - LOCK-ON DEVICE

AVG 2 - TWO-POLE BREAKER

3 - THREE-POLE BREAKER

SF-SUBFEED MOUNTING

DATE: 8/3/2020

TIME: 12:54:31 PM

VERSION: 1.0

PANELBOARD ACCESSORIES:

A. 6 INCH FACTORY WIRE GUTTER AT BOTTOM

PANEL BOARD NOTES:

1. BRANCH CIRCUIT WIRING SHALL BE 2#12, #12 GND IN 3/4 INCH CONDUIT, UNLESS NOTED OTHERWISE.

2. NO MORE THAN THREE SINGLE PHASE CIRCUITS PER CONDUIT; SHARED NEUTRALS SHALL NOT BE PERMITTED; REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

3. NEC CIRCUIT GROUND CONDUCTOR SHALL BE PROVIDED IN EACH RACEWAY; 3/4 INCH CONDUIT MINIMUM SIZE; REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

4. REFER TO SPECIFICATIONS FOR METERING AND SURGE PROTECTIVE DEVICE (SPD) EQUIPMENT.

5. PANELBOARD BUSES SHALL BE COPPER.

GENERAL NOTES

A. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.

US Army Corps of Engineers ®

DESIGNED BY: W. MCCALL

DRAWN BY: J. WATERS

CHECKED BY: D. KOLOVITZ

SUBMITTED BY:

DATE: DECEMBER 15, 2020

SOLICITATION NO.: W912D5100010

CONTRACT NO.: W912D5100010

US ARMY CORPS OF ENGINEERS

JACOBS / EWING COLE A Joint Venture

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
20190584
PANELBOARD SCHEDULES - BOILER AND LATRINE BUILDINGS

SHEET ID
E-612

MARK

DESCRIPTION

DATE

RTA SUBMISSION

G

F

E

D

C

B

A

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER/MODEL	LAMP	DRIVER	VOLTAGE	REMARKS
EM1	EMERGENCY LIGHTING UNIT WITH NEOPRENE GASKETING AND WET LOCATION LISTING, WHITE POLYCARBONATE HOUSING, CLEAR LEXAN LENSES, SELF-TESTING FEATURE, AND NICKEL-CADMIUM BATTERY FOR 90 MINUTES MINIMUM EMERGENCY ILLUMINATION, AND THERMOSTATICALLY CONTROLLED BATTERY HEATER TO PROVIDE OPERATION DOWN TO (-)20 DEGREES F.	CHLORIDE 65X6N24W12CW	TWO 12W LED MR16 LAMPS	FIXED OUTPUT	120/277	SURFACE MOUNTED ON CEILING; PROVIDE MOUNTING ACCESSORIES.
PW1	4 FOOT ADJUSTABLE CABLE PENDANT MOUNT MOUNT DAMP LOCATION LISTED FIXTURE WITH DIE EMBOSSED STEEL HOUSING, MOLDED ABS END CAPS, FROSTED ACRYLIC DIFFUSER WITH MEDIUM DISTRIBUTION, POST-FABRICATION BAKED ENAMEL WHITE FINISH. REFER TO ARCHITECTURAL DETAIL DRAWINGS FOR MOUNTING REQUIREMENTS, COORDINATION WITH CEILING DUCTWORK, AND MOUNTING HEIGHT ABOVE FINISHED FLOOR.	COLUMBIA MPS4-35-VWHE-CPW-EDU-PAF-CM245CF3-KIT	LED 3136 LUMENS 3500K	0-10V 10% DIMMING DRIVER	120/277	SURFACE MOUNTED ON CEILING; PROVIDE MOUNTING ACCESSORIES AND END CAPS FOR INTERMEDIATE AND END-OR-ROW FIXTURES WHERE CONTINUOUS STRIP INSTALLATION IS INDICATED
RP2	2 FOOT X 2 FOOT RECESSED CEILING GRID MOUNT DAMP LOCATION LISTED FIXTURE WITH EXTRUDED ALUMINUM HOUSING, ACRYLIC BLEND LIGHT GUIDE WITH EDGE-LIT FROSTED ACRYLIC OUTER LENS WITH EVEN EDGE-TO-EDGE ILLUMINATION. PROVIDE INTEGRAL SELECTOR SWITCH TO ALLOW SELECTION OF 4200/3300/2800 LUMEN OUTPUT, FIELD SET FOR 2800 LUMENS.	COLUMBIA CFP22-40/33/2835	LED 2875 LUMENS 3500K	0-10V 10% DIMMING DRIVER	120/277	RECESS MOUNTED IN CEILING; PROVIDE MOUNTING ACCESSORIES.
RT4	4 INCH X 4 FOOT RECESSED HARD CEILING MOUNT IP65 WET LOCATION LISTED FIXTURE WITH WELDED SEAM ALUMINUM HOUSING, GASKETED ACRYLIC FROSTED LENS, CEILING FLANGE TRIM KIT	NULITE RXT-F-FF-09L35-1C-U-D-W-4	LED 3711 TOT LUMENS 3500K	FIXED OUTPUT	120/277	RECESS MOUNTED IN CEILING; PROVIDE MOUNTING ACCESSORIES.
SW1	4 FOOT SURFACE MOUNT DAMP LOCATION LISTED FIXTURE WITH DIE EMBOSSED STEEL HOUSING, MOLDED ABS END CAPS, FROSTED CURVED POLYCARBONATE DIFFUSER WITH WIDE DISTRIBUTION, POST-FABRICATION BAKED ENAMEL WHITE FINISH	COLUMBIA MPS4-35-VWHE-CPW-EDU-PAF	LED 3136 LUMENS 3500K	0-10V 10% DIMMING DRIVER	120/277	SURFACE MOUNTED ON CEILING; PROVIDE MOUNTING ACCESSORIES AND END CAPS FOR INTERMEDIATE AND END-OR-ROW FIXTURES WHERE CONTINUOUS STRIP INSTALLATION IS INDICATED. PROVIDE WIRE GUARDS FOR FIXTURES IN UTILITY ROOMS.
SX1	EXTERIOR WALL-PACK LIGHTING FIXTURE WITH EMERGENCY BATTERY AND HEATER, WET LOCATION UL LISTING, TRAPEZOIDAL DIE-CAST ALUMINUM HOUSING, CLEAR LENS, AND WHITE FINISH PAINTED AFTER FABRICATION	DUALITE TRP1-3K-U-WH-EH	LED 3100 LUMENS 3000K	FIXED OUTPUT	120/277	SURFACE MOUNTED ON WALL; PROVIDE MOUNTING ACCESSORIES. EMERGENCY MODE LUMEN OUTPUT: 1000 LUMENS
X1	EXIT SIGN WITH DIE-CAST WHITE ALUMINUM HOUSING, WET LOCATION LISTING, BATTERY HEATER, POLYCARBINATE FACE-PLATE WITH CLOSED CELL NEOPRENE GASKETING, UNIVERSAL END/CEILING/WALL MOUNTING PROVISIONS, REMOVABLE CHEVRON ARROW BLANKS, 6 INCH RED LETTERS WITH 3/4 INCH STROKES. PROVIDE THERMOSTATICALLY CONTROLLED BATTERY HEATER TO PROVIDE OPERATION DOWN TO (-)20 DEGREES F.	DUALITE SEWL-S-R-W-E-HTR	LED	FIXED OUTPUT	120/277	(-)22 DEGREES F MINIMUM OPERATING TEMPERATURE RATING.
LIGHTING FIXTURE SCHEDULE - GENERAL NOTES: 1. MANUFACTURER'S MODEL NUMBERS AND CATALOG NUMBERS INDICATED ABOVE ARE FOR DEFINING THE REQUIRED LIGHTING FIXTURE CONSTRUCTION, FEATURES, AND PERFORMANCE AS A 'BASIS OF DESIGN', AND ARE NOT INTENDED TO REPRESENT A PROPRIETARY SPECIFICATION.						

GENERAL NOTES

- A. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.



**US Army Corps
of Engineers ®**

[illegible]

JACOBS / EWING COLE	<i>A Joint Venture</i>	
	SIZE: ANSI/D	
SUBMITTED BY: D KOLOWITZ		
CHECKED BY: D KOLOWITZ		
DRAWN BY: J HURSON		
DESIGNED BY: J HURSON		
SOLICITATION NO.: W912DS19D0010		
ISSUE DATE: DECEMBER 15, 2020		

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER
20190584

LUMINAIRE SCHEDULE

SHEET ID

EL601

G

F

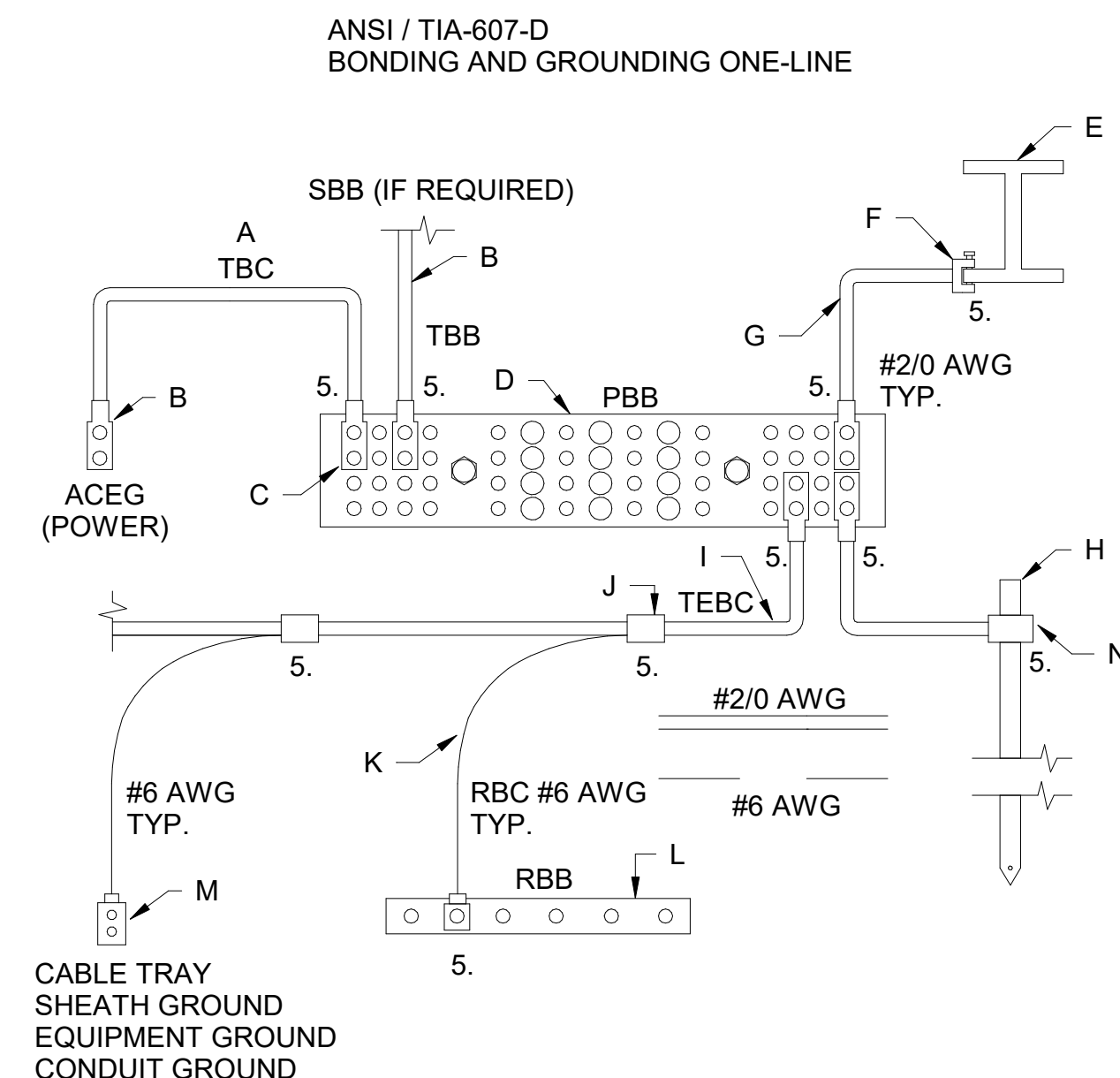
E

D

C

B

A



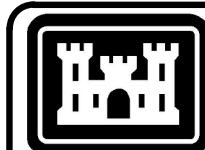
B1 PBB BONDING DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES

1. PBB'S SHALL MEET ANSI / TIA-607-D 6.2.1.
2. SBB'S SHALL MEET ANSI / TIA-607-D 6.2.2.
3. RBB'S SHALL MEET ANSI / TIA-607-D 6.2.3.
4. UNLESS NOTED OTHERWISE, SIZE TBB / BBC CONDUCTORS TO ANSI / TIA-607-D TABLE 1 THESE CONDUCTORS MUST BE THE SAME SIZE WHEN CONNECTED.
5. BONDING CONNECTIONS ARE EITHER LISTED EXOTHERMIC WELDS, LISTED IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED MECHANICAL CONNECTORS. CONNECTORS, LUGS, AND COMPONENTS SHALL BE LISTED FOR THE PURPOSE.


KEYED NOTES

- A. IF PANELBOARD IS LOCATED IN SAME SPACE, BOND PBB TO ACEG BUS. MAINTAIN 12-INCHES SEPARATION.
- B. THIS CONDUCTOR MUST BE CONTINUOUS AND AS SHORT AS POSSIBLE IN A STRAIGHT-LINE PATH.
- C. CONNECTIONS TO THE PBB / SBB SHALL UTILIZE EXOTHERMIC WELDING OR LISTED TWO-HOLE COMPRESSION LUGS.
- D. PBB OR SBB SHALL MEET REQUIREMENTS OF ANSI / TIA-607-D 6.2.1.
- E. BUILDING STEEL (STRUCTURAL METAL) VERIFIED ELECTRONICALLY CONTINUOUS VIA TWO-POINT TEST OR EQUIPMENT.
- F. LISTED BONDING CONNECTOR. LISTED EXOTHERMIC, COMPRESSION, OR MECHANICAL CONNECTION.
- G. SIZE THIS BONDING CONDUCTOR TO TIA 607-D TABLE 1. THIS CONDUCTOR SHALL BE NO SMALLER THAN ANY OTHER CONDUCTOR IN THE TELECOM BONDING BACKBONE SYSTEM. USE #2/0 AWG UON.
- H. MINIMUM GROUND ELECTRODE IS 3/4-INCH DIAMETER BY 8'-0" LONG BURIED 24-INCHES FOR A SUM OF 10'-0" DRIVEN DEPTH. ROD / ELECTRODE SHOULD HAVE A 1/2-INCH COPPER PLATING THICKNESS OR MWE.
- I. TEBC SHALL BE SIZED TO LARGEST-SIZE GROUNDING CONDUCTOR. USE #2/0 AWG, UNLESS OTHERWISE NOTED.
- J. USE IRREVERSIBLE COMPRESSION CONNECTORS TO BOND TEBC TO RBC'S OR OTHER GROUNDING CONDUCTORS.
- K. USE #6 AWG AS A MINIMUM RBC SIZE, UNLESS OTHERWISE NOTED.
- L. WHEN USING RBBS, USE LISTED RBBS SIZED TO ANSI / TIA-607-D 6.2.3.
- M. BOND EQUIPMENT TO TEBC VIA IRREVERSIBLE COMPRESSION CONNECTORS AND #6 AWG.
- N. BOND GROUND CABLE TO GROUND ELECTRODE.
- O. STAND-OFF BRACKET TO MAINTAIN SEPARATION (MINIMUM 2-INCHES) FROM OTHER CABLE SPACE BRACKETS NO GREATER THAN 36-INCHES CENTER TO CENTER.



**US Army Corps
of Engineers ®**

[illegible]

	US ARMY CORPS OF ENGINEERS		DESIGNED BY: JCH	ISSUE DATE: DECEMBER 15, 2020
			DRAWN BY: JCH	SOLICITATION NO.:
			CHECKED BY: JCH	CONTRACT NO.:
			SUBMITTED BY:	W912DS-19-D-3010
			BK	
A Joint Venture				

WEST POINT, NY
REVITALIZATION OF CAMP BUCKNER

PBB BONDING DETAIL

SHEET ID

T-501

