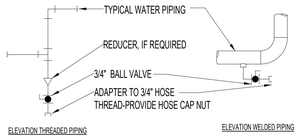
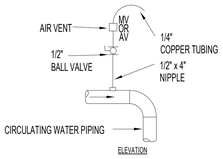


TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

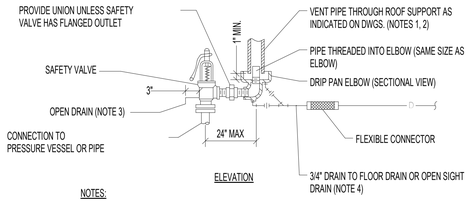


TYPICAL MANUAL AIR VENT

NOTES:
1. VENT ALL HIGH POINTS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

4 DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)

NTS

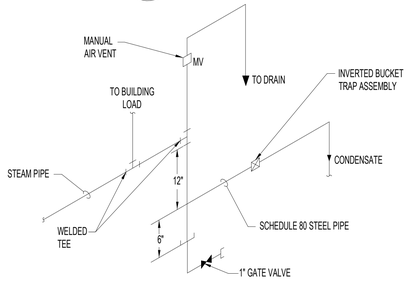


NOTES:

1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SIZE THE VENT PIPE SO THAT STEAM IS NOT BLOWN OUT AT THE VENT PIPE ENTRANCE. UTILIZE THE CALCULATION METHOD CONTAINED IN ANSI B31.1. POWER PIPING CODE, APPENDIX II. THE VENT PIPE SHOULD GO VERTICAL THRU THE ROOF WITH NO TURNS OR ANGLES. WHERE REQUIRED THERE SHALL BE NO MORE THEN A TOTAL OR 180 DEGREES IN DIRECTIONAL CHANGES MADE WITH 45 DEG. ELBOWS.
2. VENT PIPE SHALL TERMINATE 6' MIN. ABOVE FINISHED ROOF OR GRADE.
3. DISCHARGE OF DRAIN SHALL BE DIRECTED AWAY FROM PLATFORMS OR OTHER AREAS WHERE PERSONNEL MAY OCCUPY.
4. DO NOT CONNECT ANY OTHER DRAIN TO THE DRIP PAN ELBOW DRAIN PIPE.
5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

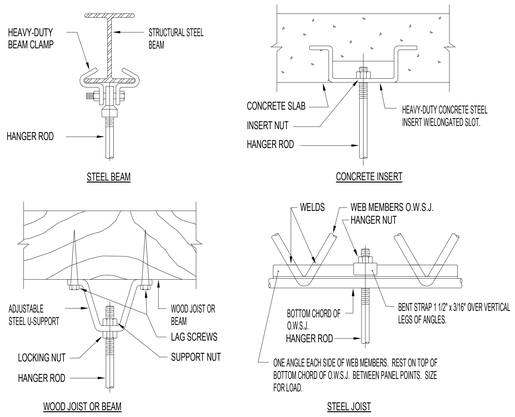
8 STEAM SAFETY VALVE

NTS



9 END OF STEAM LINE DRIP TRAP

NTS



PIPE HANGERS AND SUPPORTS

SUPPORT HORIZONTAL STEEL AND COPPER PIPING AS FOLLOWS:

NOMINAL PIPE SIZE	DISTANCE BETWEEN SUPPORTS	HANGER ROD DIAMETERS
1/2"	6'	3/8"
3/4 TO 1-1/2"	6'	1/2"
2" TO 2-1/2"	10'	1/2"
3" AND 4"	12'	5/8"
6" TO 12"	14'	7/8"
14" TO 18"	20'	1"

PLACE HANGER WITHIN 1 FOOT OF EACH HORIZ. ELBOW. SUPPORT HORIZ. SOIL WASTE AND STORM PIPE NEAR EACH HUB, WITH 5 FEET MAXIMUM SPACING BETWEEN HANGERS. VERTICAL PIPING:

1. SUPPORT VERTICAL WATER PIPING AT EVERY FLOOR.
2. SUPPORT VERTICAL SOIL PIPE AT EACH FLOOR AT HUB.

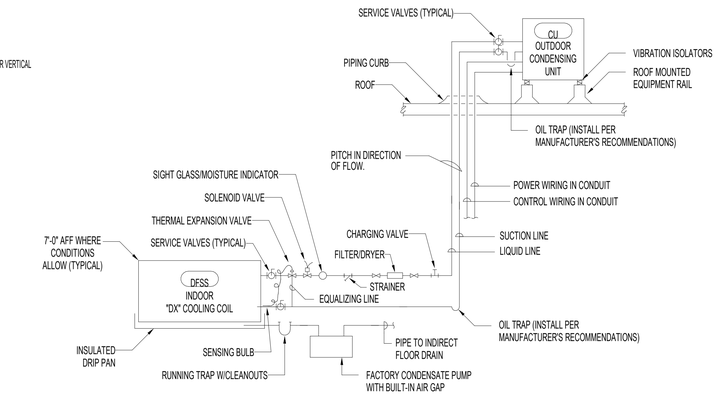
WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION PROVIDE MULTIPLE OR TRAPEZE HANGERS. WHERE PRACTICAL, SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZ. PIPING.

3 PIPE HANGER

NTS

REFRIGERANT DEVICE APPLICATION SCHEDULE	
DEVICE	APPLICATION
CAPILLARY TUBE SYSTEM	4 TONS & LOWER
THERMAL EXPANSION VALVE	5 TONS & HIGHER
FILTER DRYER	5 TONS & HIGHER
SOLENOID VALVE	20 TONS & HIGHER
SIGHT GLASS/MOISTURE INDICATOR	25 TONS & HIGHER
STRAINER	40 TONS & HIGHER
VALVED BYPASS FOR FILTER DRYER	40 TONS & HIGHER
TXV EQUALIZING LINE	40 TONS & HIGHER

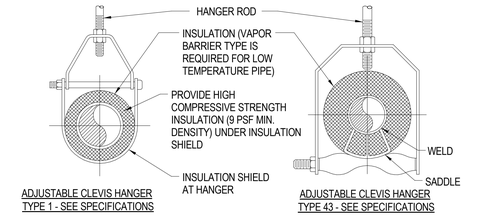
NOTE:
REFRIGERANT SPECIALTIES, TXVs, SIGHT GLASSES, EQUALIZING LINES, ETC. ARE SHOWN FOR INTENDED OPERATION OF TYPICAL DX SYSTEMS REQUIREMENTS. LOCATIONS AND DEVICES MAY NOT BE APPLICABLE FOR SMALL TONNAGE SPLIT SYSTEMS AND MANY MAY BE INTERNAL TO THE SCHEDULED COMPONENTS. PROVIDE FULLY OPERATIONAL SYSTEMS WITH REFRIGERANT SPECIALTIES AND DEVICES REQUIRED. PROVIDE ADDITIONAL SERVICE VALVES FOR SUCTION AND LIQUID LINES AT EVAPORATOR AND ACCU SECTIONS.

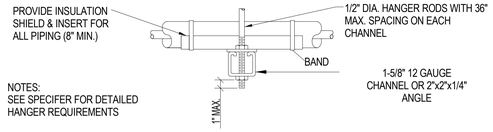


NOTES:
1. REFRIGERANT PIPING AS SHOWN IS TO ILLUSTRATE GENERAL REQUIREMENTS. PIPING SHALL BE SIZED, PITCHED, AND ARRANGED PER CONDENSING UNIT MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

2 DFSS UNIT REFRIGERANT PIPING DETAIL (ROOF)

NTS



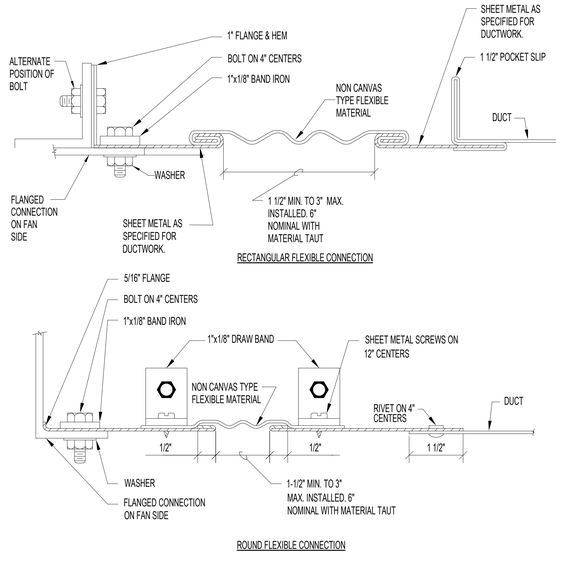


SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																			
NOM. SIZE	IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	FT.	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	FT.	5 FT	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

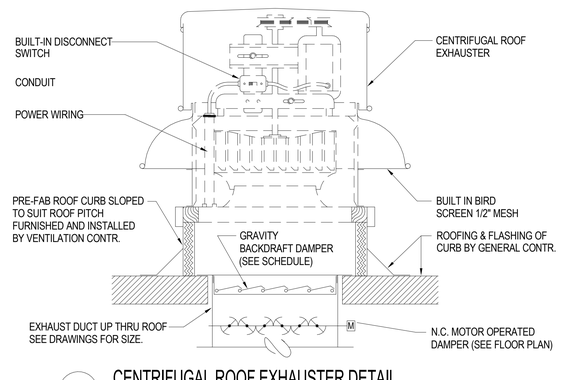
1 PIPE HANGER DETAIL

NTS



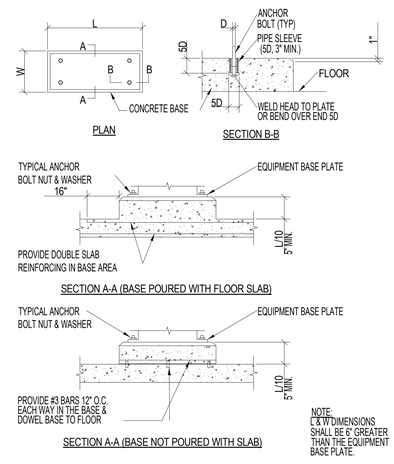
7 DUCTWORK FLEXIBLE CONNECTION DETAIL

NTS



6 CENTRIFUGAL ROOF EXHAUSTER DETAIL

NTS



5 CONCRETE EQUIPMENT BASES

NTS

100% CONSTRUCTION DOCUMENTS	06/10/2026
ISSUE FOR CONSTRUCTION	11/25/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
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30% SCHEMATIC DESIGN	11/23/2023
Revisions:	Date:

CONSULTANT

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: RH

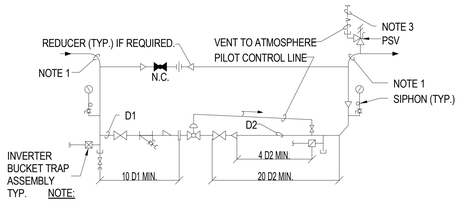
Drawn: RBB

Project Number: 578-26-016

Building Number: 217

Drawing Number: M503

VA FORM 08-6231



NOTE:

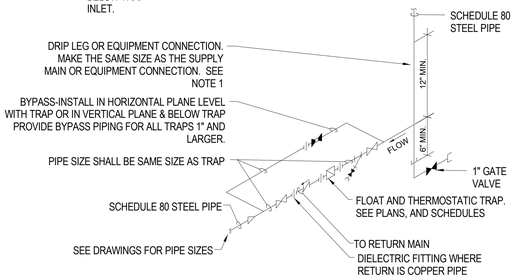
1. SEE FLOOR PLANS FOR PIPE SIZES.
2. SEE EQUIPMENT SCHEDULES FOR VALVE DATA AND PIPE SIZES D1 AND D2. INSTALL VALVES AS RECOMMENDED BY MANUFACTURER.
3. MAKE BYPASS VALVE DISCHARGE PIPE THE SAME SIZE AS D2 FOR THE LARGEST PRV.
4. PROVIDE NECESSARY UNIONS FOR THE REMOVAL OF VALVE WITH SCREWED CONNECTIONS.

4 STEAM PRESSURE REDUCING STATION VALVE SINGLE STAGE

NTS

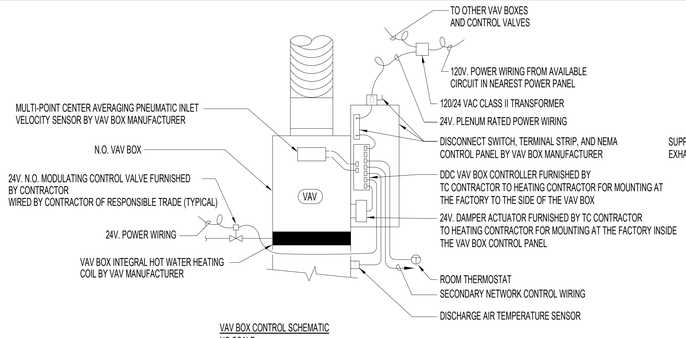
NOTE:

1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.



3 FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY

NTS



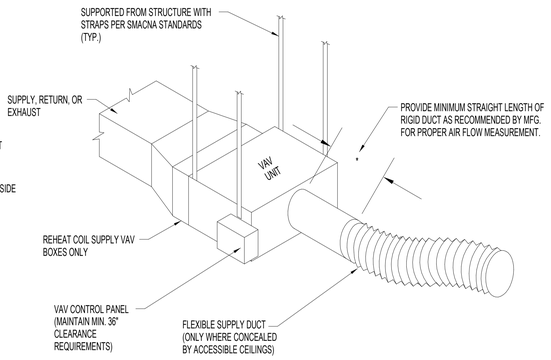
VAV BOX CONTROL SCHEMATIC
NO SCALE

NOTES:

1. ALL WORK SHOWN ABOVE SHALL BE BY THE TC CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
2. VAV BOX SHALL BE COMPLETE WITH BOX MANUFACTURER'S STANDARD AIRFLOW VELOCITY PRESSURE SENSOR.

2 VAV BOX CONTROL SCHEMATIC DIAGRAM

NTS

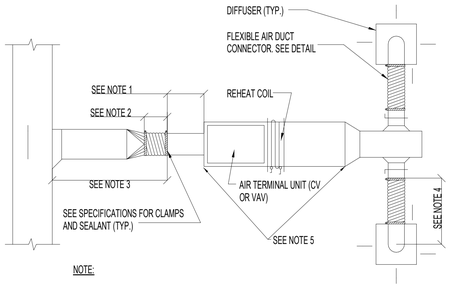


NOTES:

1. VERIFY RIGHT OR LEFT HAND CLEARANCE REQUIREMENTS WITH PLANS.

1 VAV BOX INSTALLATION

NTS

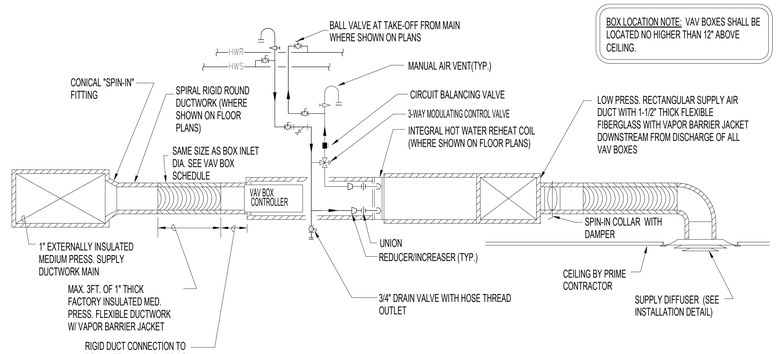


NOTE:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET . FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.08"/100'.
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 3'-0". USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

7 DUCT CONNECTIONS - AIR TERMINAL UNITS

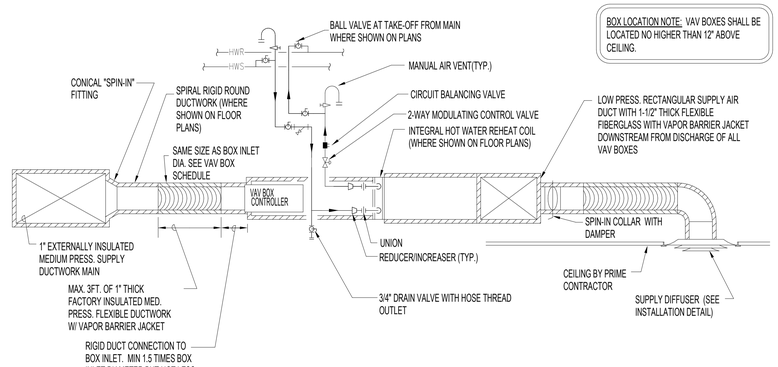
NTS



NOTE:
PROVIDE STAINLESS STEEL BRAIDED LINES FOR CONNECTIONS TO TERMINAL UNIT REHEAT COILS.

6 TERMINAL UNIT PIPING DETAIL (3-WAY VALVE) (VAV-400)

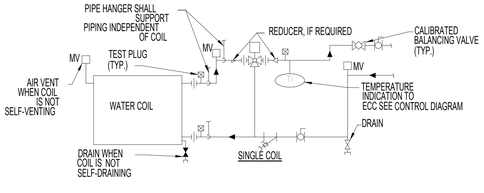
NTS



NOTE:
PROVIDE STAINLESS STEEL BRAIDED LINES FOR CONNECTIONS TO TERMINAL UNIT REHEAT COILS.

5 TERMINAL UNIT PIPING DETAIL (2-WAY VALVE)

NTS

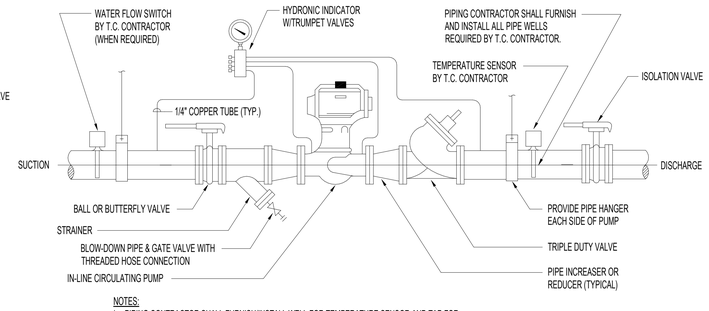


NOTES:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4": PIPE & SMALLER. TYPE "H-P" FOR 5" PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.
3. ALL VALVES TO BE INSTALLED IN MECHANICAL ROOM IN AN ACCESSIBLE LOCATION FOR MAINTANCE.

11 CHILLED WATER COILS - PIPING CONNECTIONS

NTS

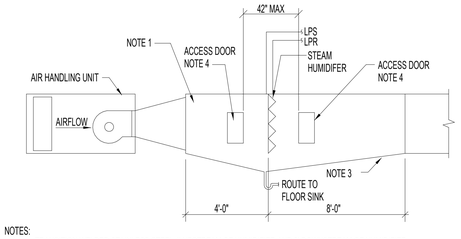


NOTES:

1. PIPING CONTRACTOR SHALL FURNISH/INSTALL WELL FOR TEMPERATURE SENSOR AND TAP FOR SWITCH AS SHOWN FOR FUTURE USE EVEN IF SENSOR OR FLOW SWITCH ARE NOT PROVIDED UNDER THIS PROJECT.
2. FOR PUMPS 1/2 HP OR SMALLER, CONTRACTOR MAY PROVIDE INDIVIDUAL PRESSURE/TEMPERATURE PLUGS IN LIEU OF HYDRONIC INDICATOR AND TUBING SHOWN.

10 IN-LINE PUMP DETAIL

NTS

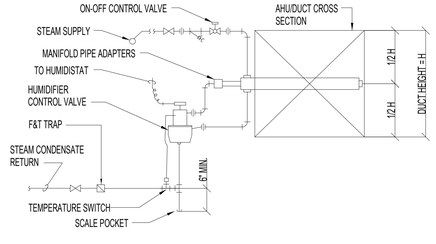


NOTES:

1. TRANSITION WELDED STAINLESS STEEL 4' UPSTREAM OF HUMIDIFIER AND 8' DOWNSTREAM OF HUMIDIFIER.
2. DETAIL ONLY APPLICABLE TO AHU'S WITHOUT AFTER FILTER DOWNSTREAM OF THE SUPPLY AIR FAN.
3. INTEGRAL STAINLESS STEEL DRAIN PAN SLOPE FROM ALL DIRECTIONS TO DRAIN CONNECTION. SLOPE .125" PER 1'-0".
4. PROVIDE MIN. 18" WIDE ACCESS DOOR, DIRECTLY UPSTREAM AND DOWNSTREAM OF HUMIDIFIER.

9 DUCT MOUNTED HUMIDIFIER

NTS



NOTE: SEE MANUFACTURER'S PIPING RECOMMENDATIONS FOR FINAL LAYOUT

8 STEAM HUMIDIFIER - PIPING CONNECTIONS

NTS

100% CONSTRUCTION DOCUMENTS	06/10/2026
ISSUE FOR CONSTRUCTION	11/25/2025
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Revisions:	Date:

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

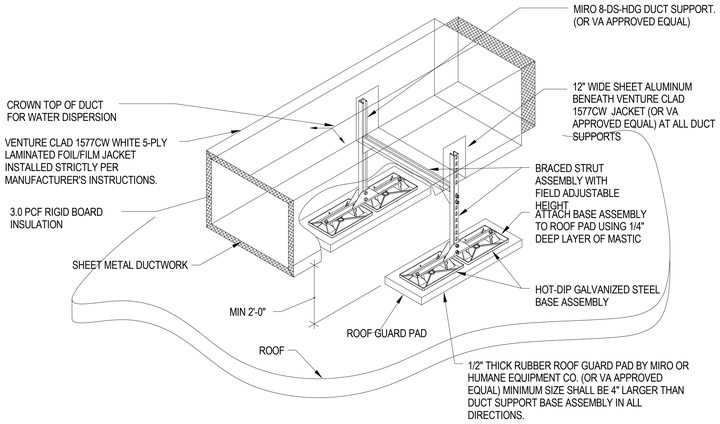
Issue Date: 06/10/2026 | Checked: RH | Drawn: RBB

Project Number: 578-26-016

Building Number: 217

Drawing Number: M504

VA FORM 08-6231

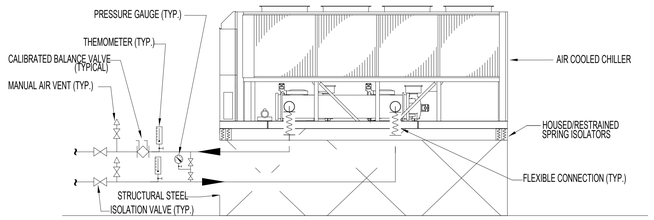


3 EXTERIOR DUCT SUPPORT DETAIL

NTS

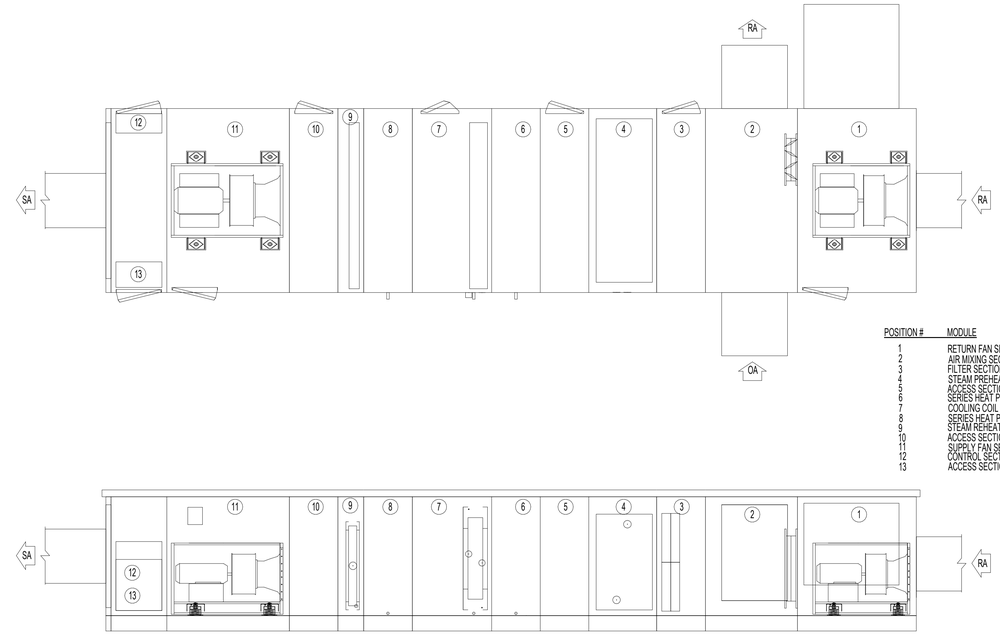
NOTES:

1. PROVIDE QUANTITY OF DUCT SUPPORTS AS REQUIRED SUCH THAT INSTALLED WEIGHT DOES NOT EXCEED 300 LBS. PER DUCT SUPPORT OR 150 LBS. ON EACH BASE.
2. SPACING NOT TO EXCEED 6'-0" CENTERS.
3. CROSSBRACE TWO PIPESTANDS EVERY FOURTH (4TH) PIPESTAND FOR ELEVATIONS 24" AND HIGHER.
4. IT IS NOT ACCEPTABLE FOR DUCT SUPPORT TO PENETRATE VENTURE CLAD JACKET.



2 AIR COOLED CHILLER DETAIL

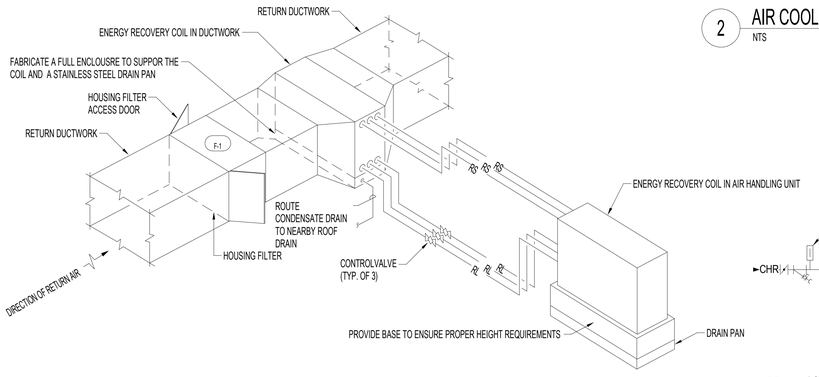
NTS



POSITION #	MODULE
1	RETURN FAN SECTION
2	AIR MIXING SECTION
3	FILTER SECTION
4	STEAM PREHEAT COIL SECTION
5	ACCESS SECTION
6	SERIES HEAT PIPE COIL
7	COOLING COIL SECTION
8	SERIES HEAT PIPE COIL
9	STEAM REHEAT COIL SECTION
10	ACCESS SECTION
11	SUPPLY FAN SECTION
12	CONTROL SECTION
13	ACCESS SECTION

1 AIR HANDLING UNIT

NTS

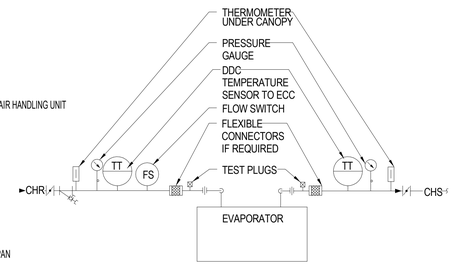


6 ENERGY RECOVERY COIL - PASSIVE HEAT PIPE (REFRIGERANT)

NTS

NOTES:

1. MAXIMUM 120 FT. PIPE LENGTH.
2. ELEVATE SUPPLY COIL (AHU) HEIGHT TO BE AT LEAST +25% OF EXHAUST COIL (DUCT MOUNTED) HEIGHT. COORDINATE ROOF CURBS, RAILS AND AHU COIL STAND TO ACHIEVE THE NECESSARY HEIGHT REQUIREMENT.

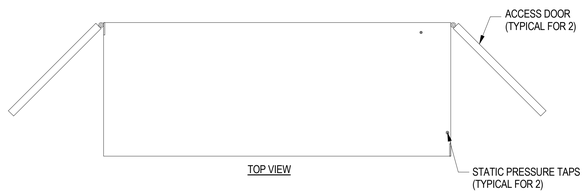


5 AIR COOLED CHILLER - PIPING CONNECTIONS

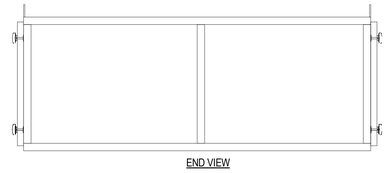
NTS

DESIGNER NOTE:

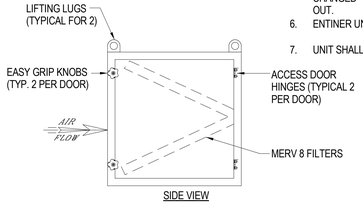
1. PROVIDE HEAT TRACING WHEN THE EXPOSED PIPING CARRYING CHILLED WATER IS NOT MIXED WITH PROPYLENE CLYCOL. ALL VALVES, STRAINER, FLOW SWITCH, FLEXIBLE CONNECTORS, ETC., SHALL BE WRAPPED WITH ELECTRIC HEAT TRACE CABLE UNDER INSULATION.
2. VERIFY NEED FOR FLEXIBLE CONNECTOR.
3. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED, INSULATED PIPING.



TOP VIEW



END VIEW



SIDE VIEW

4 OUTSIDE AIR ENERGY RECOVERY COIL FILTER HOUSING DETAIL

NTS

SPECIFICATIONS:

1. UNIT SHALL BE CONSTRUCTED OF 16 GA. GALVANIZED STEEL.
2. UNIT SHALL BE POP RIVITED, BOLTED, AND SEALED AIRTIGHT WITH RTV CAULKING.
3. RECOMMENDED STATIC PRESSURE FOR STANDARD HOUSING IS -4" TO +3" W.G.
4. ACCESS DOORS WITH NEOPRENE GASKET SHALL BE PROVIDED ON BOTH SIDES OF UNIT.
5. A MINIMUM OF 27 INCH CLEARANCE IS REQUIRED FOR FILTER CHANGED OUT.
6. ENTINER UNIT SHALL BE DOUBLE WALL INSULATED.
7. UNIT SHALL BE EQUIPPED WITH LIFTING LUGS.

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Revisions:	Date:

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

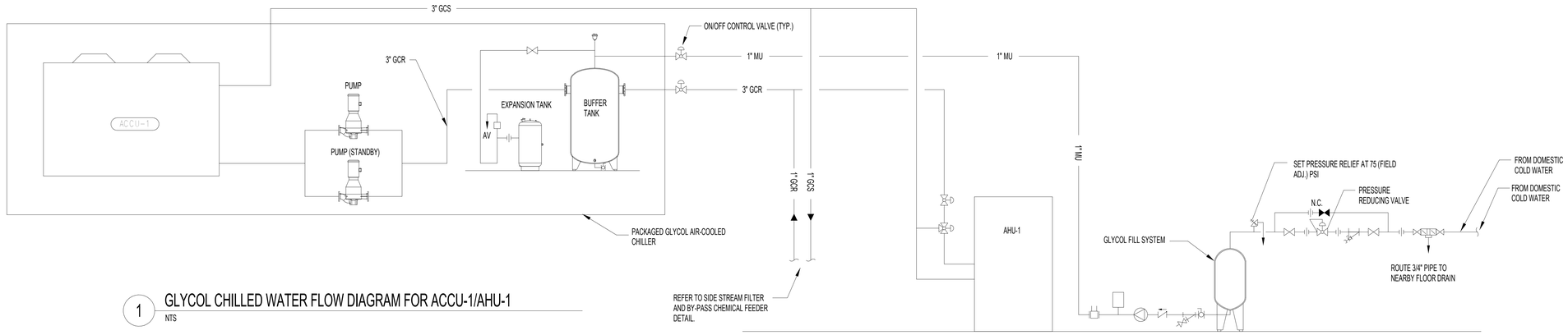
Issue Date: 06/10/2026 | Checked: RH | Drawn: RBB

Project Number: 578-26-016

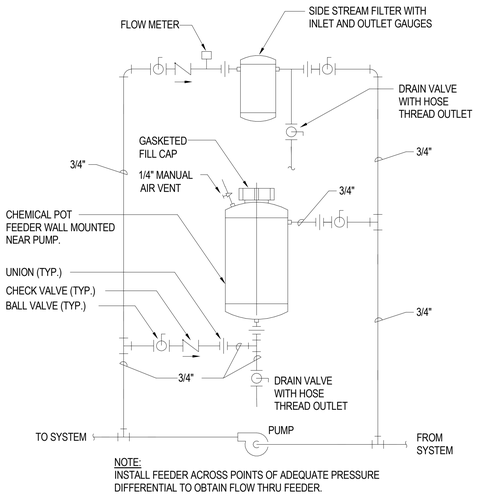
Building Number: 217

Drawing Number: M505

VA FORM 08-6231

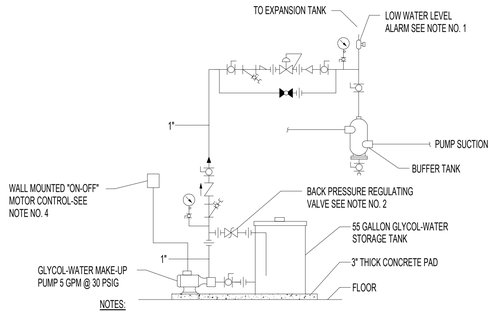


1 GLYCOL CHILLED WATER FLOW DIAGRAM FOR ACCU-1/AHU-1
NTS



NOTE:
INSTALL FEEDER ACROSS POINTS OF ADEQUATE PRESSURE DIFFERENTIAL TO OBTAIN FLOW THRU FEEDER.

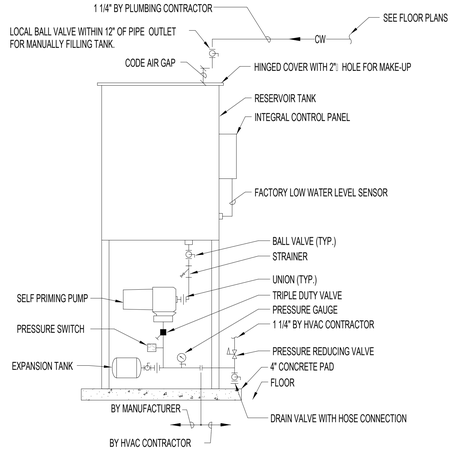
3 SIDE STREAM FILTER AND BY-PASS CHEMICAL FEEDER DETAIL
NTS



NOTES:

1. PROVIDE LOW WATER LEVEL ALARM. PROVIDE A LOW WATER LEVEL AT ECC. RELIEF VALVE DRAIN SHALL RETURN TO TANK AS SHOWN ON THIS DETAIL.
2. SET REGULATING VALVE TO MAINTAIN MAKE-UP PRESSURE AT 15 PSIG ABOVE HIGHEST SYSTEM PRV SETTING.
3. MAKE-UP PIPING SYSTEM DOES NOT REQUIRE INSULATION.
4. OPERATE PUMP MANUALLY AS REQUIRED TO FILL.

2 INDIRECT GLYCOL MAKE-UP SYSTEM (PIPING AND CONTROLS)
NTS



4 GLYCOL FILL SYSTEM DETAIL
NTS

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Phase: 100% CONSTRUCTION DOCUMENTS

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Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: RH

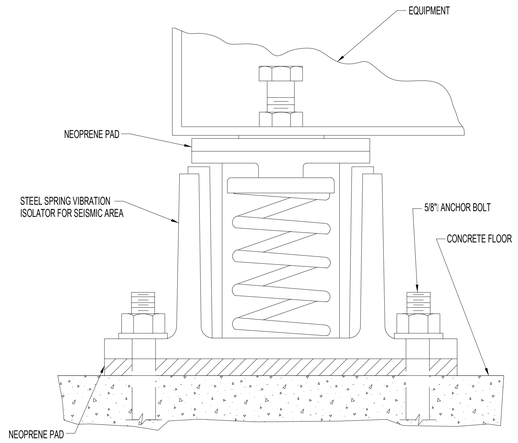
Drawn: RBB

Project Number: 578-26-016

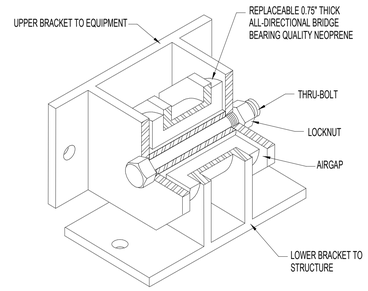
Building Number: 217

Drawing Number: M506

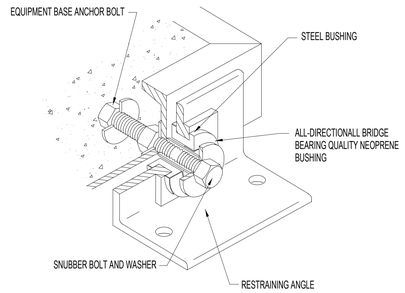
VA FORM 08-6231



4 VIBRATION ISOLATOR DETAIL
NTS



3 ALL DIRECTIONAL SEISMIC SNUBBER
NTS



2 ALL DIRECTIONAL SEISMIC SNUBBER
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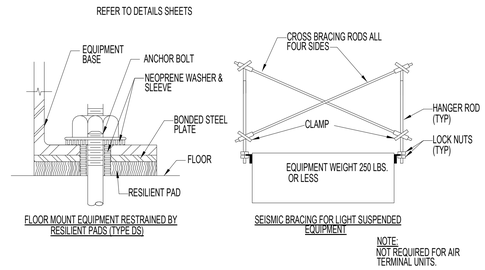


1 SEISMIC BRACING FOR EQUIPMENT
NTS

NOTE TO CONTRACTOR:
THESE DETAILS ARE DIAGRAMMATIC. ALL FINAL SEISMIC RESTRAINTS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 13 05 41 AND VA HANDBOOK H-18-8. NON STRUCTURAL SEISMIC RESTRAINT SYSTEMS SHALL BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER AS DELEGATED BY THE CONTRACTOR. ALL SEISMIC RESTRAINTS SHALL MEET REQUIREMENTS OF RISK CATEGORY IV SEISMIC DESIGN CATEGORY D.

SEISMIC BRACING NOTES

GENERAL

1. NO BRACING IS REQUIRED IF THE TOP OF THE DUCT OR PIPE IS SUSPENDED 12 INCHES OR LESS FROM THE SUPPORTING STRUCTURAL MEMBER.

2. WALLS, INCLUDING DRYWALL PARTITIONS, MAY REPLACE REQUIRED TRANSVERSE OR VERTICAL BRACING FOR DUCTWORK OR PIPING.

3. ALL SEISMIC RESTRAINTS SHALL MEET OR EXCEED REQUIREMENTS OF SMACNA PUBLICATION "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" 1991 EDITION.

DUCTWORK

4. BRACE ALL RECTANGULAR DUCTS OF 6 SQ. FT. CROSS SECTIONAL AREA AND LARGER. BRACE ALL ROUND/OVAL DUCTS 28 INCHES IN DIAMETER AND LARGER.

5. TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 30 FOOT INTERVALS, MAXIMUM. LONGITUDINAL BRACING SHALL OCCUR AT 60 FOOT INTERVALS, MAXIMUM.

PIPING

6. BRACE ALL PIPES 2 1/2 INCHES IN DIAMETER AND LARGER. IN MECHANICAL ROOMS ALSO BRACE 1 1/4", 1 1/2" AND 2 INCH PIPING AS FOR 2 1/2" PIPING. BRACE ALL FUEL GAS AND COMPRESSED AIR PIPING 1" AND LARGER.

7. TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 40 FOOT INTERVALS, MAXIMUM UNLESS NOTED OTHERWISE. LONGITUDINAL BRACING SHALL OCCUR AT 80 FOOT INTERVALS, MAXIMUM. WHEN THERMAL EXPANSION OR CONTRACTION IS INVOLVED, PROVIDE LONGITUDINAL BRACING AT ANCHOR POINTS. THE LONGITUDINAL BRACES AND THE CONNECTIONS MUST BE CAPABLE OF RESISTING THE FORCE INDUCED BY EXPANSION AND CONTRACTION.

8. AT PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER.

9. DO NOT FASTEN ONE RIGID PIPING SYSTEM TO DISSIMILAR PARTS OF THE BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE; FOR EXAMPLE, A WALL AND A ROOF.

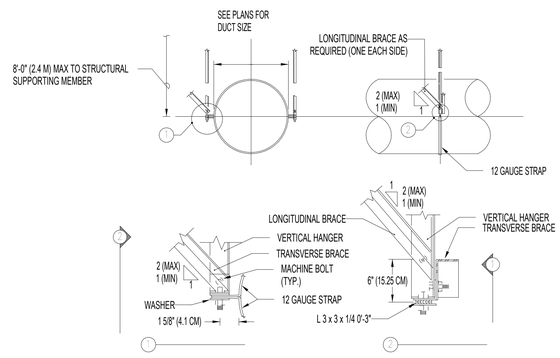
10. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.

EQUIPMENT

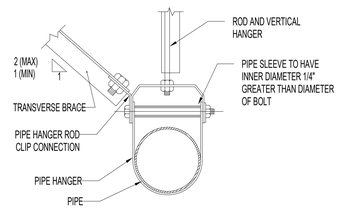
11. FLOOR OR PAD MOUNTED EQUIPMENT, WITHOUT VIBRATION ISOLATORS, SHALL BE BOLTED TO THE OTHER SUPPORT.

12. FLOOR MOUNTED EQUIPMENT, WITH VIBRATION ISOLATORS, SHALL BE PROVIDED WITH LATERAL AND VERTICAL RESTRAINING DEVICES ON ALL SIDES OF THE BASE TO RESTRICT DISPLACEMENT OF THE EQUIPMENT.

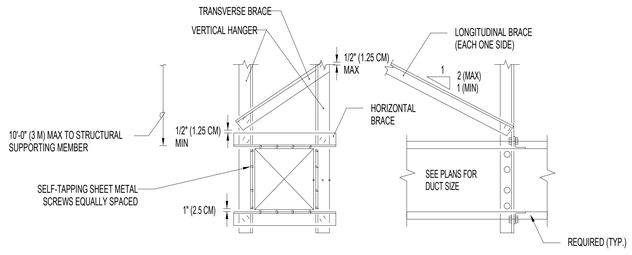
13. ON ALL SIDES OF SUSPENDED EQUIPMENT, PROVIDE BRACING FOR RIGID SUPPORTS AND PROVIDE RESTRAINTS FOR RESILIENTLY SUPPORTED EQUIPMENT.



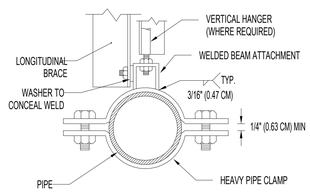
BRACING FOR ROUND DUCTS
NO SCALE

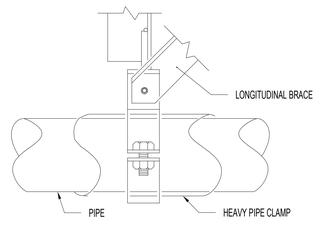


TRANSVERSE BRACING FOR PIPES
NO SCALE



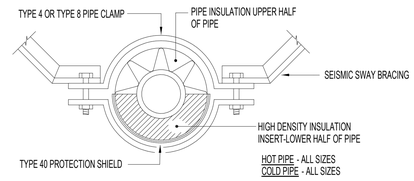
BRACING FOR RECTANGULAR DUCTS
NO SCALE



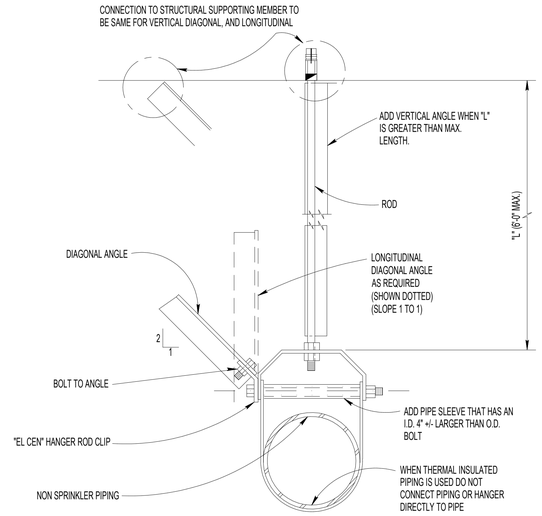


LONGITUDINAL BRACING FOR PIPES
NO SCALE

7 SEISMIC BRACING FOR PIPES AND ROUND AND RECTANGULAR DUCTS
NTS



5 SEISMIC SWAY BRACE DETAIL (INSULATED NON SPRINKLER PIPIPNG)
NTS



6 TYPICAL SEISMIC PIPE BRACING (2 1/2" Ø AND LARGER PIPING)
NTS

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Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: RH | Drawn: RBB

Project Number: 578-26-016

Building Number: 217

Drawing Number: M507

VA FORM 08-6231

AIR HANDLING UNIT SCHEDULE

"EQUIPMENT TAG"	BASIS OF DESIGN		LOCATION	DIMENSIONS (IN.)			WEIGHT (LBS)	MIN. O.A.	"100% O.A."	SUPPLY FAN											CHW COOLING COIL														STEAM PRE-HEAT COIL							
															MOTOR																											
	MANUFACTURER	MODEL		H	W	L				SUPPLY CFM	TSP (IN. WG)	ESP (IN. WG)	TYPE	FAN RPM	# OF FANS	TOTAL BHP	TOTAL HP	FLA	PH	VOLT	EAT DB/WB (°F)	LAT DB/WB (°F)	EWT (°F)	LWT (°F)	AIR P.D. (IN)	AIR VELOCITY (FPM)	TOTAL MBH	SENS. MBH	ROWS/ FPI	# OF COILS	FLUID TYPE	FLUID P.D. (FT)	FLUID VELOCITY (FT/SEC)	GPM	EAT DB (°F)	LAT DB (°F)	STEAM PRESSURE (PSI)	STEAM FLOW (LBS/HR)	TOTAL MBH	AIR P.D. (IN)	ROWS/ FPI
AHU-1	TRANE	CSAA017	ROOF	82	142	338	14,100	3,500	7,000	7,000	6.4	3.0	PLENUM	3,265	2	11	15	11	3	460	91.5/76.4	52/51.9	42	56	1.00	402	553	292	12 / 11	2.0	40% PROP. GLYCOL	8.1	2.1	86.6	-10	80	15	718.6000	679.6000	0.45	2 / 14

AIR HANDLING UNIT SCHEDULE

STEAM RE-HEAT COIL								RETURN FAN											PRE FILTERS TYPE	NOTES
													MOTOR							
# OF COILS	EAT DB (°F)	LAT DB (°F)	STEAM PRESSURE (PSI)	STEAM FLOW (LBS/HR)	TOTAL MBH	AIR P.D. (IN)	ROWS/ FPI	RETURN CFM	TSP (IN. WG)	ESP (IN.)	TYPE	FAN RPM	# OF FANS	BHP	HP	FLA	PH	VOLT		
2.0	80.0	107.8	15	219.9	208	0.07	1/6	7,000	1.8700	1.5	PLENUM	2,439	2.00	4.00	6.0	4.80	3	460	MERV 8 / MERV 13	1-14

EXHAUST FAN SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN		LOCATION	AREA SERVED	TYPE	DRIVE	WEIGHT (LBS)	CFM	SP (IN.)	MAXIMUM SONES	FAN RPM	BHP	MOTOR				CONTROL TYPE	NOTES
	MANUFACTURER	MODEL											HP	RPM	PHASE	VOLT		
EF-08	GREENHECK	G-140-VG	ROOF-UNIT B	DEMENTIA WING	CENTRIFUGAL DOWN BLAST	DIRECT	63	2,400	0.75	15.1	1,558	0.77	1	1725	1	115	BAS	1,2,3,4,5,6
EF-09	GREENHECK	G-160-VG	ROOF-UNIT B	DEMENTIA WING	CENTRIFUGAL DOWN BLAST	DIRECT	63	1,750	0.63	10.3	963	0.33	1	1200	1	115	BAS	1,2,3,4,5,6
EF-11	GREENHECK	G-120-VG	ROOF-UNIT B	DEMENTIA WING	CENTRIFUGAL DOWN BLAST	DIRECT	49	1,250	0.62	11.2	1,358	0.24	1/2	1725	1	115	BAS	1,2,3,4,5,6

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUALS
2. PROVIDE THE FOLLOWING OPTIONS: MOTORIZED DAMPER, NEMA 3R DISCONNECT SWITCH, AND SPEED CONTROLLER
3. PROVIDE ALUMINUM BIRDSCREEN.
4. PROVIDE PRE-FABRICATED 18" TALL INSULATED ROOF CURB.
5. FAN SHALL COME IN STANDARD ENAMEL GREY COLOR.
6. MOTORIZED DAMPER POWER SHALL BE FROM FAN CIRCUIT VIA INTEGRAL TRANSFORMER.

ENERGY RECOVERY COILS SCHEDULE

EQUIPMENT TAG	LOCATION	BASIS OF DESIGN		CFM (WHEN RUNNING 100% OA)	REFRIGERANT TYPE	SUPPLY SIDE (AHU) APPROX. OVERALL DIMENSIONS (IN.)							EXHAUST SIDE (DUCT MOUNTED) APPROX. OVERALL DIMENSIONS (IN.)							ENERGY RECOVERY (WHEN RUNNING 100% OA)																					NOTES
																				SUMMER CONDITIONS										WINTER CONDITIONS											
																				AIR VELOCITY (FPM)	HEAT TRANSFERED (MBH)	SUPPLY SIDE (AHU)			EXHAUST SIDE (DUCT MOUNTED)			EFFECTIVENESS			AIR VELOCITY (FPM)	HEAT TRANSFERED (MBH)	SUPPLY SIDE (AHU)			EXHAUST SIDE (DUCT MOUNTED)			EFFECTIVENESS			
		MANUFACTURER	MODEL			H	W	L	FACE AREA (FT2)	# CIRCUITS / ROWS PER CIRCUIT	# ROWS / FINS PER INCH	WEIGHT (LBS)	H	W	L	FACE AREA (FT2)	# CIRCUITS / ROWS PER CIRCUIT	# ROWS / FINS PER INCH	WEIGHT (LBS)			EAT DB / WB (°F)	LAT DB / WB (°F)	PD (IN. WG)	EAT DB / WB (°F)	LAT DB / WB (°F)	PD (IN. WG)	SENSIBLE (%)	LATENT (%)	TOTAL (%)			EAT DB / WB (°F)	LAT DB / WB (°F)	PD (IN. WG)	EAT DB / WB (°F)	LAT DB / WB (°F)	PD (IN. WG)	SENSIBLE (%)	LATENT (%)	TOTAL (%)	
ERC-1	ROOF	HEAT PIPE TECHNOLOGY	HRM	7,000	R134A	47.25	54	22	13.89	3 / 2	6 / 12	474.0	47.25	54	22	13.89	3 / 2	6 / 12	474.0	504	32.4	91.5 / 76.4	87.3 / 75.3	0.86	70.0 / 58.43	74.2 / 60.0	0.83	19.3	0	7.1	504	214.4	0.2 / -1.2	28.5 / 20.5	0.76	70.0 / 52.9	41.9 / 39.7	0.81	40.6	0	31.8	1,2,3,4,5

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUALS
2. PROVIDE NEMA 4 RATED 120V CONTROL PANEL. INSTALL CONTROL VALVE ON LIQUID PIPING.
3. REFER TO MANUFACTURERS MAXIMUM DISTANCES BETWEEN COILS.
4. PROVIDE A FULL ENCLOSURE FOR THE EXHAUST COIL TO INCLUDE DRAIN PAN. FIELD FABRICATE AS REQUIRED, ROUTE DRAIN PIPING TO NEARBY ROOF DRAIN.
5. COORIDNATE SUPPLY SIDE RECOVERY COIL SECTION WITH AHU MANUFACTURER.

AIR COOLED CHILLER SCHEDULE

EQUIPMENT TAG	LOCATION	UNIT SERVED	MANUFACTURER	MODEL	HEAT REJECTION (TONS)	WEIGHT (LBS)	COMPRESSORS			WATERT SIDE								ELECTRICAL DATA				NOTES
							QUANTITY	SIZE EACH (TONS)	REF. TYPE	EWT (°F)	LWT (°F)	GPM	COOLING CAPACITY (TONS)	FLUID TYPE	FLUID CONCENTRATION	PUMP TYPE	PRESSURE DROP (FT)	MCA	MOCP	PHASE	VOLT	
ACCU-1	ROOF	AHU-1	TRANE	CGAM	52	6,423	4	18	R454B	57	42	81.12	48.06	PROPYLENE GLYCOL	30%	DUAL HIGH HEAD	12.8	113	150	3	460	1 to 14

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. HOT GAS BYPASS.
3. SPRING VIBRATION ISOLATORS.
4.LOW AMBIENT CONTROL.
5. CRANKCASE HEATER.
6. DUAL HIGH HEAD PUMPS, VFD, EXPANSION VESSELS, DRAINAGE VALVES, SHUT-OFF AT EW AND LW CONN; 140 GAL BUFFER TANK
7. SINGLE POINT POWER CONNECTION WITH 65KA HIGH FAULT CIRCUIT BREAKER
8. INSTALL AIR COOLED CHILLER ON RAILS.
9. N+1 REDUNDANT PARALLEL PUMPS; LEAD LAG AND FAILURE RECOVERY FUNCTIONALITY
10. BUFFER TANK WITH FACTORY INSULATION AND -20F FREEZE PROTECTION
11. FREEZE PROTECTION TO -20F AMBIENT; FACTORY HEAT TRACING
12. LEAD/LAG COMPONENT OPERATION AND PHASE REVERSAL PROTECTION
13. FACTORY PUMP PACKAGE
14. FACTORY INSTALLED REFRIGERANT ISOLATION VALVES

SINGLE STAGE STEAM PRESSURE REGULATOR VALVE SCHEDULE

EQUIPMENT TAG	LOCATION	MANUFACTURER	SERVES	1ST STAGE		FLOW (LBS / HR)	NOTES
				INLET PRESSURE (PSI)	OUTLET PRESSURE (PSI)		
PRV-1	BUILDING 217	HOFFMAN	AHU-1	25	15	1,650	1,2

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. INSTALL CONTROL PRESSURE RANGE, AND PLATE.

DUCT FREE SPLIT SYSTEM SCHEDULE

EQUIPMENT TAG	LOCATION	BASIS OF DESIGN	COOLING CAPACITY (BTUH)	INDOOR UNIT									OUTDOOR UNIT										NOTES
				MODEL	TYPE	DIMENSIONS (IN.)			AIRFLOW			FILTERS	EQUIPMENT TAG	MODEL	LOCATION	COMPRESSOR				ELECTRICAL DATA				
						H	W	D	TOTAL CFM	EAT. D.B. (°F)	EAT. W.B. (°F)	TYPE				SIZE (TONS)	REF. TYPE	EAT (°F)	SEER	MCA	MOCP	PHASE	VOLTS	
DFSS-108A	TR-402	CARRIER	24,000	40MAHBQ24XA3	HIGH WALL	15	45	11	720	75°	67°	CLEANABLE	CU-108A	38MARBQ24AA3	ROOF	2	R-410A	95	21.5	25	35	1	208	1,2,3

NOTES:
1. ACCEPTABLE MANUFACTURERS: VA APPROVED EQUALS
2. INDOOR UNIT SHALL BE INTERLOCKED TO OUTDOOR UNIT FOR POWER AND CONTROL WIRING.
3. WALL MOUNTED TEMPERATURE SENSOR.

100% CONSTRUCTION DOCUMENTS	06/10/2026
ISSUE FOR CONSTRUCTION	11/25/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENTS	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
30% SCHEMATIC DESIGN	11/23/2023
Revisions:	Date:

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: RH

Drawn: RBB

Project Number: 578-26-016

Building Number: 217

Drawing Number: M601

VA FORM 08-6231

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	TYPE	NOMINAL FACE SIZE	MATERIAL	MAX. N.C.	NOTES
A	TITUS	OMNI	SQUARE PANEL FACE	24"x24"	STEEL	30	1,2,3
B	TITUS	45F	EGG CRATE	VARIES	ALUMINUM	30	1,2,3,4
C	TITUS	OMNI-AA	SQUARE PANEL FACE	12"x12"	ALUMINUM	30	1,2,3
D	TITUS	TBDI-80	LINEAR INSULATED BOOT	VARIES	STEEL	30	1,2,3,5,6
E	TITUS	350F	35 DEG. DEFLECTION REGISTER	VARIES	ALUMINUM	30	1,2,3

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUALS.
2. COORDINATE FRAME TYPE WITH CEILING/WALL TYPE AND ARCHITECT.
3. FINISH AS SELECTED BY ARCHITECT.
4. 1/2"x1/2"x1" GRID.
5. (2) -1" WIDE SLOTS
6. INSULATED PLENUM

GLYCOL FILL STATION

SYMBOL	LOCATION	CHILLER SERVED	TYPE	CAPACITY / SIZE	MOTOR			BASIS OF DESIGN		NOTES
					HP	VOLT	PHASE	MANUFACTURER	MODEL	
GFS-1	ROOF	ACCU-1	50 GAL. SIMPLEX	1.8 GPM AT 70 PSI	1/3	120	1	WESSELS	GMP-15050	1,2

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL.
2. PACKAGED SYSTEM SHALL INCLUDE 1/2 HP PUMP, 50 GAL. GLYCOL DRUM, EXPANSION TANK, LOW WATER CUT OFF SWITCH, PRESSURE SWITCH/STARTER, Y-STRAINER, TRIPLE DUTY VALVE, PRESSURE GAUGE, AND THREADED OUTLET.

FILTER HOUSING SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	CFM MAX CAPACITY	TYPE	% Efficiency ASHRAE STANDARDS 52.1 / 52.2	FILTER MODULE NOMINAL SIZE			FILTER MODULE ARRANGEMENT			MAXIMUM PRESSURE DROP (IN WG)		TOTAL HOUSING FINAL PRESSURE DROP (IN WG)	REMARKS
							H (IN)	W (IN)	D (IN)	TOTAL NUMBER OF UNITS	NUMBER UNITS HIGH	NUMBER UNITS WIDE	CLEAN	DIRTY		
F-1	ERC-1	EASY STREET ROOF	FLANDERS	7,000	FILTER ENCLOSURE, PLEATED FILTERS	35% / MERV-8	24	24	2	4	2	2	0.19	1.00	1	1,2,3,4,5,6,7,8

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL.
2. PROVIDE STATIC PRESSURE TAPS AND WEATHER PROOF MAGNEHELIC GAGES TO READ ACROSS FILTER BANK.
3. PROVIDE ACCESS DOORS WITH NEOPRENE GASKET ON BOTH SIDES FOR FILTER REPLACEMENT. A MINIMUM OF 27" CLEARANCE IS REQUIRED FOR FILTER CHANGE OUT.
4. ENTIRE UNIT SHALL BE DOUBLE WALL INSULATED.
5. PROVIDE STATIC PRESSURE TAPS AND PROVIDE WEATHER COVER.
6. PROVIDE 2" CHANNEL BASE WELDED TO BOTTOM OF HOUSING. INSTALL ON ROOF RAIL, COORDINATE FINAL ELEVATIONS WITH DUCTWORK.
7. PROVIDE LIFTING LUGS.
8. SEE SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS

HUMIDIFIER SCHEDULE

SYMBOL	SERVICE	AIRFLOW (CFM)	ABSORPTION DISTANCE MAX. (IN)	MANIFOLD DIMENSIONS (W x H)	NO. OF DISPERSION TUBES	STEAM PRESSURE (PSIG)	CAPACITY (lbs/hr)	ELECTRICAL			DIMENSIONS (H x W x D)	UNIT WEIGHT (lbs)	BASIS OF DESIGN		REMARKS
								RATED POWER (kW)	VOLT	PHASE			MANUFACTURER	MODEL	
HUM-1	AHU-1	7000	24	48 x 24	8	15	190	0.36	120	1	48 x 33 x 24.5	578	NEPTRONIC	SKS4190SLPA	1, 2, 3, 4, 5, 6

NOTES:
1. PROVIDE NECESSARY STAND TO AHU MANIFOLD TO ACHIEVE DRAIN HEIGHT. FOLLOW ALL MANUFACTURER'S RECOMMENDATION.
2. PROVIDE ON/OFF DIGITAL DUCT HUMIDISTAT, AIR PROVING SWITCH, REMOTE WALL HUMIDITY SENSOR c/w DIGITAL DISPLAY,
3. PROVIDE HEADER, 304 STAINLESS STEEL STEAM TUBE, MOUNTING FRAME, AND INLET KIT.
4. PROVIDE FULLY MODULATING, BUILT-IN FLOAT & THERMOSTATIC STEAM TRAP, ELECTRIC ACTUATOR, AND BACnet COMPATIBLE.
5. PROVIDE WITH MANUFACTURER'S SUPPORT STAND.
6. REFER TO SPECIFICATION SECTION 23 22 13 STEAM AND CONDENSATE HEATING PIPING.

UNIT HEATER SCHEDULE (ELECTRIC)

SYMBOL	SERVICE	HEATING CAPACITY		FAN / MOTOR DATA			ELECTRICAL			DIMENSIONS (H x W x D)	UNIT WEIGHT (lbs)	MANUFACTURER	MODEL	REMARKS
		KW	MBH	CFM	RPM	HP	AMPS	VOLT	PHASE					
UH-101	AHU VESTIBULE	3	10.3	350	1600	1 / 100	14.5	208	1	16" x 14" x 8 1/2"	24.0000	QMARK	HUHAA320	1 AND 2
UH-102	AHU VESTIBULE	3	10.3	350	1600	1 / 100	14.5	208	1	16" x 14" x 8 1/2"	24.0000	QMARK	HUHAA320	1 AND 2

REMARKS:
1. PROVIDE DISCONNECT SWITCH, FAN DELAY SWITCH, AND BUILT-IN UNIT MOUNTED THERMOSTAT.
2. PROVIDE MOUNTING KIT TO MATCH MOUNTING REQUIREMENT.

VAV BOX WITH HOT WATER REHEAT SCHEDULE

EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	AIRFLOW (CFM)		APPROX. DIMENSIONS (IN.)					HOT WATER COIL							NOISE LEVEL(NC)		INTEGRAL SOUND ATTENUATOR	NOTES
				MIN.	MAX.	INLET SIZE	OUTLET SIZE	H	L	W	HEATING CFM	CAPACITY (MBH)	EAT (°F)	LAT (°F)	EWT (°F)	GPM	ROWS	RADIATED	DISCHARGE		
VAV-1A104	SEE PLANS	TITUS	DESV	260	260	06	12x8	8.0	15.5	12.0	260	5.6	55	75	180	0.7	2	16	24	NO	1,2,3,4,5,6,7,8
VAV-1A104A	SEE PLANS	TITUS	DESV	170	170	08	12x10	10.0	15.5	12.0	170	3.2	55	72	180	0.8	1	-	24	NO	1,2,3,4,5,6,7,8
VAV-1A105	SEE PLANS	TITUS	DESV	165	165	06	12x8	8.0	15.5	12.0	165	5.6	55	86	180	0.5	1	11	19	NO	1,2,3,4,5,6,7,8
VAV-1A106	SEE PLANS	TITUS	DESV	170	170	06	12x8	8.0	15.5	12.0	170	6.5	55	90	180	0.6	1	11	19	NO	1,2,3,4,5,6,7,8
VAV-1A107	SEE PLANS	TITUS	DESV	155	155	06	12x8	8.0	15.5	12.0	155	5.5	55	88	180	0.5	1	11	18	NO	1,2,3,4,5,6,7,8
VAV-1A108	SEE PLANS	TITUS	DESV	165	165	08	12x10	10.0	15.5	12.0	165	5.7	55	87	180	0.7	1	-	23	NO	1,2,3,4,5,6,7,8
VAV-1A109	SEE PLANS	TITUS	DESV	165	165	08	12x10	10.0	15.5	12.0	165	3.8	55	76	180	0.7	1	-	23	NO	1,2,3,4,5,6,7,8
VAV-1A111	SEE PLANS	TITUS	DESV	115	115	06	12x8	8.0	15.5	12.0	115	2.5	55	75	180	0.5	1	-	15	NO	1,2,3,4,5,6,7,8
VAV-1A118	SEE PLANS	TITUS	DESV	1450	1450	14	20x17.5	17.5	15.5	20.0	1450	31.3	55	75	180	3.3	2	20	19	NO	1,2,3,4,5,6,7,8
VAV-1A127A	SEE PLANS	TITUS	DESV	475	475	08	12x10	10.0	15.5	12.0	475	10.3	55	75	180	1.1	2	18	25	NO	1,2,3,4,5,6,7,8
VAV-1A141	SEE PLANS	TITUS	DESV	135	135	06	12x8	8.0	15.5	12.0	135	2.9	55	75	180	0.9	1	10	17	NO	1,2,3,4,5,6,7,8
VAV-1A142	SEE PLANS	TITUS	DESV	130	130	06	12x8	8.0	15.5	12.0	130	2.8	55	75	180	0.8	1	-	17	NO	1,2,3,4,5,6,7,8
VAV-2A12A	SEE PLANS	TITUS	DESV	425	425	8	12x10	10.0	15.5	12.0	425	9.2	55	75	180	1.0	2	18	25	NO	1,2,3,4,5,6,7,8
VAV-2A12B	SEE PLANS	TITUS	DESV	285	285	6	12x8	8.0	15.5	12.0	285	6.2	55	75	180	0.8	2	17	25	NO	1,2,3,4,5,6,7,8
VAV-2A18A	SEE PLANS	TITUS	DESV	1025	1025	12	16x15	15.0	15.5	16.0	1025	22.2	55	75	180	2.6	2	19	23	NO	1,2,3,4,5,6,7,8
VAV-2A18B	SEE PLANS	TITUS	DESV	1025	1025	12	16x15	15.0	15.5	16.0	1025	22.2	55	75	180	2.6	2	19	23	NO	1,2,3,4,5,6,7,8
VAV-1B142	SEE PLANS	TITUS	DESV	250	250	6	12x8	8.0	15.5	12.0	250	5.4	55	75	180	0.6	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B149	SEE PLANS	TITUS	DESV	310	310	06	12x8	8.0	15.5	12.0	310	9.4	55	83	180	0.9	2	18	22	NO	1,2,3,4,5,6,7,8
VAV-1B153	SEE PLANS	TITUS	DESV	165	165	6	12x8	8.0	15.5	12.0	165	7.9	55	99	180	0.7	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B155	SEE PLANS	TITUS	DESV	245	245	6	12x8	8.0	15.5	12.0	245	7.5	55	83	180	0.7	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B156	SEE PLANS	TITUS	DESV	245	245	6	12x8	8.0	15.5	12.0	245	7.5	55	83	180	0.7	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B159	SEE PLANS	TITUS	DESV	250	250	6	12x8	8.0	15.5	12.0	250	7.6	55	83	180	0.7	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B160	SEE PLANS	TITUS	DESV	190	190	6	12x8	8.0	15.5	12.0	190	5.9	55	84	180	0.6	2	13	20	NO	1,2,3,4,5,6,7,8
VAV-1B162	SEE PLANS	TITUS	DESV	240	240	6	12x8	8.0	15.5	12.0	240	8.8	55	89	180	0.7	2	15	23	NO	1,2,3,4,5,6,7,8
VAV-1B164	SEE PLANS	TITUS	DESV	255	255	06	12x8	8.0	15.5	12.0	255	7.5	55	82	180	0.7	2	16	24	NO	1,2,3,4,5,6,7,8
VAV-1B167	SEE PLANS	TITUS	DESV	230	230	06	12x8	8.0	15.5	12.0	230	7.5	55	85	180	0.6	2	15	23	NO	1,2,3,4,5,6,7,8
VAV-1B168	SEE PLANS	TITUS	DESV	245	245	06	12x8	8.0	15.5	12.0	245	7.6	55	84	180	0.6	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B171	SEE PLANS	TITUS	DESV	245	245	06	12x8	8.0	15.5	12.0	245	7.6	55	84	180	0.6	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B172	SEE PLANS	TITUS	DESV	245	245	06	12x8	8.0	15.5	12.0	245	7.6	55	84	180	0.6	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B175	SEE PLANS	TITUS	DESV	270	270	6	12x8	8.0	15.5	12.0	270	7.5	55	81	180	0.6	2	15	23	NO	1,2,3,4,5,6,7,8
VAV-1B176	SEE PLANS	TITUS	DESV	250	250	06	12x8	8.0	15.5	12.0	250	7.7	55	84	180	0.6	2	16	23	NO	1,2,3,4,5,6,7,8
VAV-1B178	SEE PLANS	TITUS	DESV	400	400	8	12x10	10.0	15.5	12.0	400	10.3	55	79	180	0.9	2	17	25	NO	1,2,3,4,5,6,7,8
VAV-1B100	SEE PLANS	TITUS	DESV	585	585	10	14x12.5	12.5	15.5	14.0	585	16.2	55	81	180	1.4	2	22	24	NO	1,2,3,4,5,6,7,8
VAV-2B78	SEE PLANS	TITUS	DESV	400	400	8	12x10	10.0	15.5	12.0	400	11.4	55	81	180	0.9	2	17	25	NO	1,2,3,4,5,6,7,8
VAV-1C100W	SEE PLANS	TITUS	DESV	1200	1200	16	24x18	18.0	15.5	24.0	1200	52.3	55	95	180	1.9	2	12	11	NO	1,2,3,4,5,6,7,8
VAV-1C104	SEE PLANS	TITUS	DESV	420	420	08	12x10	10.0	15.5	12.0	420	12.2	55	82	180	1.0	2	18	25	NO	1,2,3,4,5,6,7,8
VAV-1C104B	SEE PLANS	TITUS	DESV	500	500	08	12x10	10.0	15.5	12.0	500	10.8	55	75	180	1.4	2	30	36	NO	1,2,3,4,5,6,7,8
VAV-1C104A	SEE PLANS	TITUS	DESV	945	945	14	20x17.5	17.5	15.5	20.0	945	20.4	55	75	180	1.6	2	17	18	NO	1,2,3,4,5,6,7,8
VAV-1C149	SEE PLANS	TITUS	DESV	305	305	6	12x8	8.0	15.5	12.0	305	9.3	55	83	180	0.9	2	18	22	NO	1,2,3,4,5,6,7,8
VAV-1C150N	SEE PLANS	TITUS	DESV	595	595	10	14x12.5	12.5	15.5	14.0	595	11.5	55	73	180	1.4	2	20	24	NO	1,2,3,4,5,6,7,8
VAV-1C150S	SEE PLANS	TITUS	DESV	810	810	12	16x15	15.0	15.5	16.0	810	17.5	55	75	180	1.6	2	18	22	NO	1,2,3,4,5,6,7,8
VAV-1C178	SEE PLANS	TITUS	DESV	440	440	8	12x10	10.0	15.5	12.0	440	12.6	55	82	180	1.0	2	18	25	NO	1,2,3,4,5,6,7,8
VAV-2C204	SEE PLANS	TITUS	DESV	420	420	8	12x10	10.0	15.5	12.0	420	12.2	55	82	180	1.0	2	18	25	NO	1,2,3,4,5,6,7,8
VAV-2C278	SEE PLANS	TITUS	DESV	430	430	8	12x10	10.0	15.5	12.0	430	12.4	55	82	180	1.0	2	18	25	NO	1,2,3,4,5,6,7,8

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. PROVIDE WITH ACCESS DOORS FOR REHEAT COIL AND FACTORY MOUNTED DISCONNECT.
3. SOUND LEVELS (NC) AST FULL AIR FLOW WITH 0.75" INLET STATIC PRESSURE AND 0.5"
4. DISCHARGE PRESSURE. NOISE CRITERIA (NC) SOUND INFORMATION IS BASED ON ARI-880-98.
5. REGARDLESS OF HOT WATER COIL AIR PRESSURE DROP, AVAILABLE DISCHARGE STATIC PRESSURE SHALL NOT BE LESS THAN 0.25" AT AIR FLOW RATE SCHEDULED.
5. HOT WATER COIL WATER PRESSURE DROP SHALL NOT EXCEED 5' AND AIR PRESSURE DROP SHALL NOT EXCEED 0.3" WG.
6. VAV MANUFACTURER TO MOUNT IN FACTORY THE DDC CARD/CONTROLLER AND DAMPER ACTUATOR FURNISHED BY THE T.C. CONTRACTOR. BOXES SHALL NOT BE RELEASED FOR PRODUCTION UNTIL BOX MANUFACTURER HAS COORDINATED WITH T.C. CONTRACTOR.
7. COORDINATE LEFT HANDED/RIGHT HANDED COIL CONNECTIONS WITH DESIGN DRAWINGS AND EXISTING FIELD CONDITIONS
8. PROVIDE NECESSARY 120V / 24V POWER SUPPLY FOR CONTROLLER POWER. COORDINATE WITH ELECTRICAL DRAWINGS FOR QUANTITY AND LOCATION.

100% CONSTRUCTION DOCUMENTS	06/10/2026
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Revisions:	Date:

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - SCHEDULES

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: RH | Drawn: RBB

Project Number: 578-26-016

Building Number: 217

Drawing Number: M602

VA FORM 08-6231

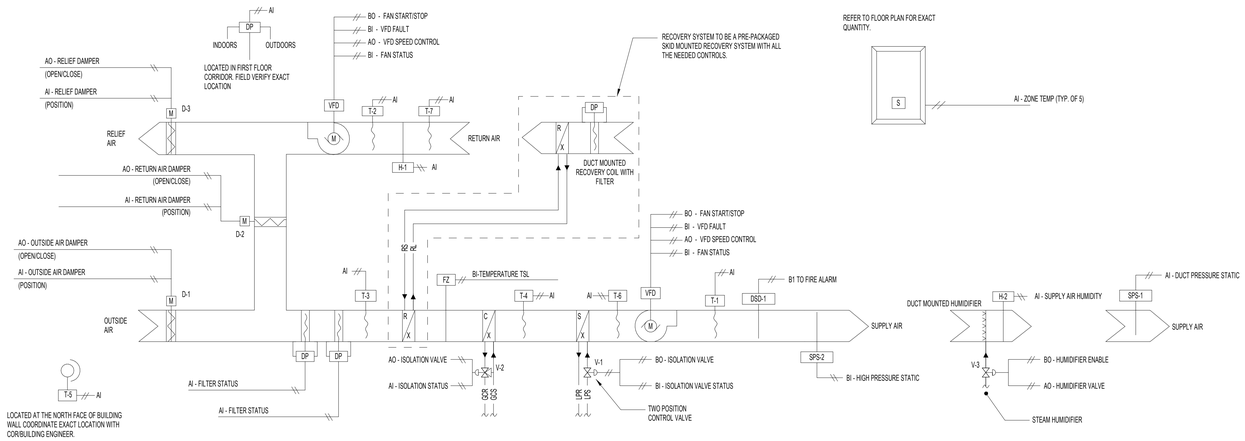
CONTROLS SYMBOLS

CONTROL SYMBOL LIST

SYMBOL	DESCRIPTION
ADJ	ADJUSTABLE
AFMS	AIRFLOW MEASURING STATION
BAS	BUILDING AUTOMATION SYSTEM
CT	CONTROLLER
DDC	DIRECT DIGITAL CONTROL
DP	DIFFERENTIAL PRESSURE
DSD	DUCT SMOKE DETECTOR
FZ	FREEZESTAT
EP	POWER WIRING
H	HUMIDITY SENSOR
HOA	HAND-OFF-AUTO
M	MOTORIZED DAMPER
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
RH	RELATIVE HUMIDITY
SPS	STATIC PRESSURE SENSOR
T	TEMPERATURE SENSOR
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
VFD	VARIABLE FREQUENCY DRIVE

SYMBOL	DESCRIPTION
	CONTROL VALVE
C X	COOLING COIL
S X	STEAM HEATING COIL
R X	ENERGY RECOVERY COIL
M	MOTORIZED DAMPER (SPRING RETURN)
M	MOTOR (FAN)
	PUMP
	TRANSMITTER
	TRANSMITTER, AVERAGING ELEMENT

SYMBOL	DESCRIPTION
AI	ANALOG INPUT
AO	ANALOG OUTPUT
BI	BINARY INPUT
BO	BINARY OUTPUT
AV	ANALOG VALUE
BV	BINARY VALUE



1 AIR HANDLING UNIT CONTROL DIAGRAM (AHU-1)

NTS

NOTE TO TEMPERATURE CONTROL CONTRACTOR: CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT TYPE, SIZES AND QUANTITIES OF CONTROL CABLES, CONTROLLERS, SENSORS, TRANSFORMERS, DEVICES AND PROGRAMMING NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. WHETHER OR NOT SHOWN ON THESE DRAWINGS.

AIR HANDLING UNIT POINT LIST (AHU-1)

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
RETURN AIR HUMIDITY (H-1)	X							X		X
SUPPLY AIR HUMDITY (H-2)	X							X		X
OUTSIDE AIR DAMPER, POSITION (D-1)	X							X		X
RETURN AIR DAMPER, POSITION (D-2)	X							X		X
RELIEF AIR DAMPER, POSITION (D-3)	X							X		X
MIXED AIR FILTER DIFFERENTIAL PRESSURE (MERV 8)	X							X		X
MIXED AIR FILTER DIFFERENTIAL PRESSURE (MERV 13)	X							X		X
RETURN AIR FILTER DIFFERENTIAL PRESSURE	X							X		X
SUPPLY DUCT STATIC PRESSURE, SPS-1	X							X	X	X
SUPPLY AIR TEMPERATURE, T-1	X							X	X	X
ENERGY RECOVERY RETURN AIR TEMPERATURE, T-2	X							X	X	X
MIXED AIR TEMPERATURE, T-3	X							X	X	X
CHILLED AIR TEMPERATURE, T-4	X							X	X	X
OUTSIDE AIR DEWPOINT TEMPERATURE, T-5	X							X	X	X
HEATED AIR TEMPERATURE, T-6	X							X	X	X
RETURN AIR TEMPERATURE, T-7	X							X	X	X
SUPPLY FAN VFD SPEED CONTROL		X						X		X
RETURN FAN VFD SPEED CONTROL		X						X		X
OUTSIDE AIR DAMPER, ACTUATOR (D-1)		X						X		X
RETURN AIR DAMPER, ACTUATOR (D-2)		X						X		X
RELIEF AIR DAMPER, ACTUATOR (D-3)		X						X		X
COOLING VALVE, V-2		X						X		X
SUPPLY DUCT HUMIDIFIER VALVE, V-3		X						X		X
SUPPLY FAN STATUS			X					X		X
RETURN FAN STATUS			X					X		X
STEAM HEATING VALVE STATUS, V-1			X					X		X
SUPPLY FAN VFD FAULT			X						X	
RETURN FAN VFD FAULT			X						X	
FREEZE PROTECTION, FZ			X						X	
HIGH STATIC PRESSURE, SPS-2			X					X	X	X
SUPPLY DUCT SMOKE DETECTOR, DSD-1			X					X	X	X
STEAM HEATING VALVE, V-1				X				X		X
SUPPLY DUCT HUMIDIFIER VALVE ENABLE, V-3				X				X		X
SUPPLY FAN START/STOP				X			X	X	X	X
RETURN FAN START/STOP				X			X	X	X	X
ALARM										
FREEZESTAT (FZ)								X	X	X
HIGH SUPPLY AIR STATIC PRESSURE									X	
HIGH SUPPLY AIR TEMPERATURE (T-1)									X	
HIGH SUPPLY AIR HUMIDITY (H-2)									X	
HIGH MIXED AIR TEMPERATURE (T-3)									X	
HIGH RETURN AIR TEMPERATURE (T-7)									X	
HIGH RETURN AIR HUMIDITY (H-1)									X	
LOW SUPPLY AIR STATIC PRESSURE									X	
LOW SUPPLY AIR TEMPERATURE (T-1)									X	
LOW SUPPLY AIR HUMIDITY (H-2)									X	
LOW MIXED AIR TEMPERATURE (T-3)									X	
LOW RETURN AIR TEMPERATURE (T-7)									X	
LOW RETURN AIR HUMIDITY (H-1)									X	
SUPPLY FAN FAILURE									X	
RETURN FAN FAILURE									X	
SUPPLY FAN IN HAND									X	
RETURN FAN IN HAND									X	
PREFILTER CHANGE REQUIRED									X	

SEQUENCE OF OPERATION

CONSTANT AIR HANDLING UNIT

1. GENERAL
   A. UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE DDC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-1, D-2, & D-3, SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" D-1, D-2, & D-3 SHALL BE OPEN TO ITS MINIMUM POSITION. DAMPER SHALL MODULATE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:

   SCHEDULED:
   OCCUPIED MODE: THE UNIT SHALL MAINTAIN
   - A 75°F (ADJ.) COOLING SETPOINT.
   - A 70°F (ADJ.) HEATING SETPOINT.

   UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
   - A 85°F (ADJ.) COOLING SETPOINT.
   - A 55°F (ADJ.) HEATING SETPOINT.

2. TEMPERATURE CONTROL
   A. THE UNIT SHALL RUN WHENEVER THE ZONE IS OCCUPIED OR THE ZONES NEED HEATING OR COOLING.

   B. SUPPLY AIR TEMPERATURE, SENSED BY T-1, SHALL BE MAINTAINED AT SETPOINT VIA DDC BY MODULATING D-1, D-2 AND D-3 OR V-1 OR V-2 IN SEQUENCE.

   C. WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY T-5, IS ABOVE 75°F (ADJ). THE DIGITAL CONTROL PANEL SHALL PREVENT THE MODULATION OF D-1, D-2, & D-3 AND SHALL ASSUME THE MINIMUM OUTSIDE AIR POSITION. THE DDC SHALL MODULATE V-2 TO MAINTAIN THE SUPPLY AIR TEMPERATURE 57°F (ADJ), SENSED BY T-1.

   D. WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY T-5, IS BETWEEN 65°F AND THE SUPPLY AIR TEMPERATURE SENSED BY T-1, DAMPER D-1, D-2, AND D-3 SHALL BE FULLY OPEN (MAXIMUM OUTSIDE AIR POSITION). THE DDC SHALL MODULATE V-2 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY T-1.

   E. WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY T-5, IS BELOW THE SUPPLY AIR TEMPERATURE, SENSED BY T-1, DAMPERS D-1, D-2, AND D-3 SHALL MODULATE TO MAINTAIN THE SCHEDULED SUPPLY AIR TEMPERATURE. IF D-1 D-2, AND D-3 ARE AT THE MINIMUM OUTSIDE AIR POSITION, THE HEATING COIL VALVES SHALL MODULATE OPEN TO MAINTAIN THE SUPPLY AIR TEMPERATURE 65°F (ADJ), SENSED BY T-1.

3. PREHEATING COIL FACE AND BYPASS STEAM VALVES:
   A. THE CONTROLLER SHALL MEASURE THE OUTSIDE AIR TEMPERATURE AND ACTIVATE THE STEAM CONTROL VALVE WITH THE OUTSIDE AIR IS BELOW 55°F (ADJ) OR THE UNIT IS CALLING FOR HEAT.

   B. THE CONTROLLER SHALL MODULATE FACE AND BYPASS AIR DAMPER AND STEAM COIL VALVE IN SEQUENCE. WHEN EVER THE OUTDOOR TEMPERATURES IS ABOVE 35°F TO ACHIEVE COIL LEAVING SETPOINT. WHEN OUTDOOR TEMPERATURES IS BELOW 35°F THE STEAM COIL SHALL BE FULLY OPEN AND MODULATE THE BYPASS DAMPER ONLY.

THE PREHEATING SHALL BE ENABLED WHENEVER:
   a. OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
   b. AND THE ECONOMIZER (IF PRESENT) IS DISABLED.
   c. AND THE HEATING IS ACTIVE.
   d. AND COOLING IS NOT ACTIVE.
   e. AND THE SUPPLY FAN STATUS IS ON.

4. COOLING COIL:
   A. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.
   B. THE COOLING SHALL BE ENABLED WHENEVER:
      a. OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
      b. AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN.
      c. AND THE SUPPLY FAN STATUS IS ON.
      d. AND THE HEATING (IF PRESENT) IS NOT ACTIVE.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
      a. HIGH SUPPLY AIR TEMP. IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

5. AIR FLOW CONTROL
   A. THE SUPPLY FAN SHALL BE COMMANDED TO RUN ANYTIME THE UNIT IS COMMAND TO RUN. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE MINIMUM RUNTIME.

   B. THE DDC, USING TOTAL SUPPLY AIR AND RETURN AIR FLOW SIGNALS, SHALL RESET THE RETURN AIR FAN VARIABLE SPEED MOTOR CONTROLLER (VFD) TO MAINTAIN A CONSTANT AIR FLOW DIFFERENCE BETWEEN THE SUPPLY AIR AND THE RETURN AIR EQUAL TO MINIMUM OUTSIDE AIR.

   C. THE DDC, USING HIGH PRESSURE SENSOR SPS-1 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL PREVENT THE SUPPLY FAN FROM DEVELOPING OVER 3" OF STATIC PRESSURE (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-1 DOES EXCEED 3". THE SUPPLY AIR FAN SHALL STOP. SPS-1 SHALL BE HARDWIRED TO THE SUPPLY FAN (VFD) AND UNIT SHALL BE SHUTDOWN IN HAND, AUTO OR BYPASS MODE. SPS-1 WILL REQUIRE MANUAL RESET AT THE DEVICE.

7. FREEZE PROTECTION
   A. IF THE AIR TEMPERATURE AS SENSED BY T-3 FALLS BELOW 40°F, AN ALARM SIGNAL SHALL INDICATE AT THE DDC. IF THIS TEMPERATURE FALLS BELOW 35°F, AS SENSED BY FZ, THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DDC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN VFD AND UNIT SHALL BE SHUTDOWN IN HAND, AUTO OR BYPASS MODE. WILL REQUIRE MANUAL RESET AT THE DEVICE. DURING FAN SHUTDOWN, T-5 (HEATING TEMP) SENSOR MODULATE PREHEAT VALVE TO MAINTAIN 60°F - 95 °F (ADJ.).

8. AUTOMATIC SHUTDOWN/RESTART
   A. WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR, DSD, THE SUPPLY FANS SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM.

9. EMERGENCY CONSTANT SPEED OPERATION
   A. UPON FAILURE OF THE VFD, THE SUPPLY AND RETURN FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DDC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

10. ALARMS
   A. PROVIDE ALARMS FOR SUPPLY FAN VFD FAULT, SUPPLY FAN FAILURE, (COMMANDED ON BUT "ON" BUT THE STATUS IS "OFF"; SUPPLY FAN RUNNING IN HAND (COMMANDED "OFF" BUT THE STATUS IS "ON", AND HIGHER PRE FILTER AND FINAL FILTER DIFFERENTIAL STATIC PRESSURES.

11. ECONOMIZER CYCLE
   A. PROVIDE THE UNIT WITH AN ECONOMIZER CYCLE OPERATION SHALL BE SUCH THAT WHEN
      a. THE OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ).
      b. AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
      c. AND THE SUPPLY FAN STATUS IS ON.
      d. THE ECONOMIZER SHALL BE DISABLED ANYTIME THE MIXED AIR TEMPERATURE DROPS LESS THAN 40°F (ADJ) OR THE FREEZESTAT IS ON.
      e. AND RECOVERY COIL TO BE DEACTIVATED.

12. BUILDING DIFFERENTIAL PRESSURE
   A. PROVIDE BUILDING DIFFERENTIAL PRESSURE SENSORS AT SPACE SERVED BY THE AHU. IN OCCUPIED MODE, ON A RISE IN BUILDING DIFFERENTIAL PRESSURE ABOVE SETPOINT (0.05 W.C., ADJ), THE RELIEF AIR DAMPER SHALL MODULATE OPEN TO MAINTAIN THE BUILDING STATIC PRESSURE SETPOINT. THE RETURN /RELIEF FAN SHALL TRACK THE SUPPLY FAN VFD SPEED MINUS AS ADJUSTABLE OFFSET. (THE OFFSET SHALL BE DETERMINED AT SYSTEM BALANCING.)

13. MINIMUM OUTSIDE AIR VENTILATION
   A. WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL MEASURE THE OUTSIDE AIRFLOW AND MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN THE PROPER MINIMUM OUTSIDE AIR VENTILATION, OVERRIDING NORMAL DAMPER CONTROL ON DROPPING OUTSIDE AIRFLOW. THE CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPERS OPEN TO MAINTAIN THE OUTSIDE AIRFLOW SETPOINTS (ADJ).

14. SUPPLY AIR SMOKE DETECTION:
   A. THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

   REMARKS:
   A. LOCATE OUTSIDE SENSOR ON THE EXTERIOR NORTH SIDE OF THE BUILDING. LOCATE OUT OF ANY HEAT SOURCE RELATED EQUIPMENT. COORDINATE FINAL LOCATION WITH CORBUILDING ENGINEER AND ALL MANUFACTURER'S RECOMMENDATIONS.

15. ENERGY RECOVERY - RUN-AROUND LOOP COILS:
   A. THE CONTROLLER SHALL RUN THE RUN-AROUND LOOP PUMP AND MODULATE THE RUN-AROUND LOOP MIXING VALVE FOR ENERGY RECOVERY AS FOLLOWS.

   B. COOLING RECOVERY MODE:
      a. THE RUN-AROUND LOOP PUMP SHALL RUN CONTINUOUSLY. THE CONTROLLER SHALL MEASURE THE RUN-AROUND LOOP COIL DISCHARGE AIR TEMPERATURE (DOWNSTREAM OF THE OUTSIDE AIR COIL) AND MODULATE THE RUN-AROUND LOOP MIXING VALVE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE UNIT SUPPLY AIR TEMPERATURE SETPOINT. THE RUN-AROUND LOOP SHALL RUN FOR COOL RECOVERY WHENEVER:
      b. UNIT RETURN AIR TEMPERATURE IS 5°F (ADJ.) OR MORE BELOW THE OUTSIDE AIR TEMPERATURE.
      c. AND THE UNIT IS IN A COOLING MODE.
      d. AND THE ECONOMIZER (IF PRESENT) IS OFF.
      e. AND THE SUPPLY FAN IS ON.

   C. HEATING RECOVERY MODE:
      a. THE RUN-AROUND LOOP PUMP SHALL RUN CONTINUOUSLY. THE CONTROLLER SHALL MEASURE THE RUN-AROUND LOOP COIL DISCHARGE AIR TEMPERATURE (DOWNSTREAM OF THE OUTSIDE AIR COIL) AND MODULATE THE RUN-AROUND LOOP MIXING VALVE TO MAINTAIN A SETPOINT 2°F (ADJ.) GREATER THAN THE UNIT SUPPLY AIR TEMPERATURE SETPOINT. THE RUN-AROUND LOOP SHALL RUN FOR HEAT RECOVERY WHENEVER:
      b. UNIT RETURN AIR TEMPERATURE IS 5°F (ADJ.) OR MORE ABOVE THE OUTSIDE AIR TEMPERATURE.
      c. AND THE UNIT IS IN A HEATING MODE.
      d. AND THE ECONOMIZER (IF PRESENT) IS OFF.
      e. AND THE SUPPLY FAN IS ON.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
      - RUN-AROUND LOOP PUMP FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
      - RUN-AROUND LOOP PUMP IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
      - RUN-AROUND LOOP PUMP RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

16. HUMIDIFIER CONTROL
   A. THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND MODULATE THE HUMIDIFIER TO MAINTAIN A SETPOINT OF 50RH (ADJ.). THE HUMIDIFIER SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON.

   B. THE HUMIDIFIER SHALL TURN OFF WHENEVER:
      - SUPPLY AIR HUMIDITY RISES FROM 90%RH TO 95%RH (ADJ.).
      - OR ON LOSS OF SUPPLY FAN STATUS.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
      - HIGH SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS GREATER THAN 90%RH (ADJ.).
      - LOW SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS LESS THAN 30%RH (ADJ.).

17. DEHUMIDIFICATION:
   A. THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 60%RH (ADJ.). DEHUMIDIFICATION SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON.

18. RETURN FILTER DIFFERENTIAL PRESSURE MONITOR:
   A. THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

19. PREFILTER DIFFERENTIAL PRESSURE MONITOR:
   A. THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

20. FINAL FILTER DIFFERENTIAL PRESSURE MONITOR:
   a. THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTER.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

21. MIXED AIR TEMPERATURE:
   a. THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR PREHEATING CONTROL (IF PRESENT).

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
   b. LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

22. RETURN AIR HUMIDITY:
   a. THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR HUMIDITY CONTROL (IF PRESENT).

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 70% (ADJ.).
   b. LOW RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS LESS THAN 35% (ADJ.).

23. RETURN AIR TEMPERATURE:
   a. THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
   c. LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

24. SUPPLY AIR TEMPERATURE:
   a. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

   ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
   b. LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

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STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: RH | Drawn: TE

Project Number: 578-26-016

Building Number: 217

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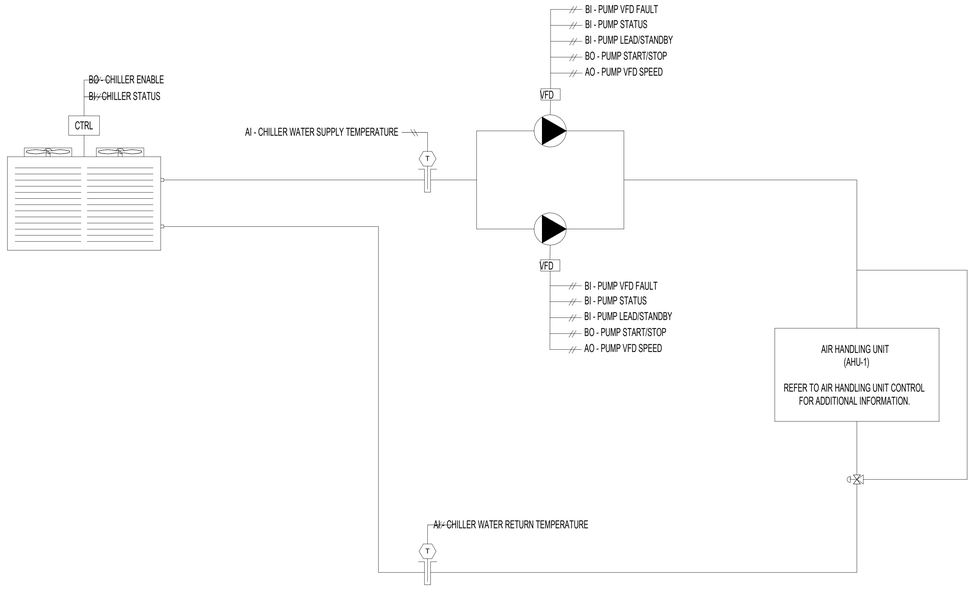


3 AIR COOLED CHILLER CONTROL DIAGRAM

NTS

AIR COOLED CHILLER
THE CHILLER MANUFACTURER SHALL PROVIDE A FACTORY MOUNTED CHILLER CONTROL. CHILLER CONTROL PANEL SHALL BE AVAILABLE TO AND MONITORED BY THE BAS SYSTEM.
THE CHILLER SHALL BE ENABLED TO RUN WHENEVER:

- A DEFINABLE NUMBER OF CHILLED WATER COILS NEED COOLING.
- AND THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 54°F (ADJ).

TO PREVENT SHORT CYCLING, THE CHILLER SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES, UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.

THE CHILLER SHALL RUN SUBJECTS TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

CHILLED WATER SUPPLY SETPOINT:
THE CHILLER SHALL MAINTAIN A CHILLED WATER SUPPLY TEMPERATURE SETPOINT AS SCHEDULED ON THE DRAWINGS (ADJ.)

CHILLED WATER PUMP LEAD/STANDBY OPERATION:
THE TWO CHILLED WATER PUMPS ARE EACH SIZED FOR 100% OF THE COOLING LOAD. THE TWO CHILLED WATER PUMPS SHALL RUN ANYTIME THE CHILLER IS CALLED TO RUN.

THE LEAD PUMP SHALL START PRIOR TO THE CHILLER BEING ENABLED AND SHALL STOP ONLY AFTER THE CHILLER IS DISABLED. THE PUMP(S) SHALL THEREFORE HAVE:

- A USER ADJUSTABLE DELAY ON START.
- AND A USER ADJUSTABLE DELAY ON STOP.

THE DELAY TIMES SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.

THE TWO PUMPS SHALL OPERATE IN A LEAD/STANDBY FASHION.

- THE LEAD PUMP SHALL RUN FIRST.
- ON FAILURE OF THE LEAD PUMP, THE STANDBY PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.

THE DESIGNATED LEAD PUMP SHALL ROTATE ONCE A WEEK TO EQUALIZE THE RUN TIME BETWEEN PUMPS.

CHILLED WATER PUMP 1

- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- VFD FAULT.

CHILLED WATER PUMP 2

- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- VFD FAULT.

CHILLER:
THE CHILLER SHALL BE ENABLED A USER ADJUSTABLE TIME AFTER PUMP STATUSES ARE PROVEN ON. THE CHILLER SHALL THEREFORE HAVE A USER ADJUSTABLE DELAY ON START.

THE DELAY TIME SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.

CHILLED WATER TEMPERATURE MONITORING:
THE FOLLOWING TEMPERATURES SHALL BE MONITORED:

- CHILLED WATER SUPPLY.
- CHILLED WATER RETURN.

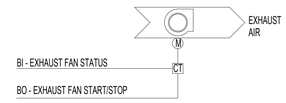
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH CHILLED WATER SUPPLY TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS GREATER THAN 55°F (ADJ.).
- LOW CHILLED WATER SUPPLY TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS LESS THAN 38°F (ADJ.).

CHILLER SAFETIES:
CONTRACTOR COORDINATE ALL SAFETY AND INTERLOCK REQUIREMENTS WITH CHILLER MANUFACTURER. CONTRACTOR SHALL PROVIDE THE INSTALLATION AND WIRING OF CHILLED WATER FLOW SWITCHES AND OTHER COMPONENTS PROVIDED WITH CHILLER FOR PROPER OPERATION.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- CHILLER FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- CHILLER RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- CHILLER RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.



2 EXHAUST AIR CONTROL DIAGRAM

NTS

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN CONTINUOUSLY.

FAN:
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

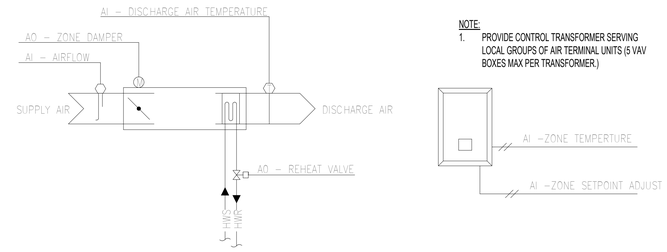
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

EXHAUST FAN POINTS LIST (EF-08, EF-09 AND EF-11)

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
FAN STATUS			X					X		X
FAN START/STOP				X				X		X
FAN FAILURE									X	
FAN IN HAND									X	
FAN RUNTIME EXCEEDED									X	

NOTE TO TEMPERATURE CONTROL CONTRACTOR:
CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT TYPE, SIZES AND QUANTITIES OF CONTROL CABLES, CONTROLLERS, SENSORS, TRANSFORMERS, DEVICES AND PROGRAMMING NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. WHETHER OR NOT SHOWN ON THESE DRAWINGS.



NOTE:
1. PROVIDE CONTROL TRANSFORMER SERVING LOCAL GROUPS OF AIR TERMINAL UNITS (5 VAV BOXES MAX PER TRANSFORMER.)

1 CONSTANT VOLUME TERMINAL AIR BOX W/HOT WATER REHEAT

NTS

RUN CONDITIONS - CONTINUOUS:
THE CONSTANT VOLUME TERMINAL AIR BOX SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN THE FOLLOWING TEMPERATURE.

TEMPERATURE CONTROL
THE UNIT SHALL MAINTAIN

- A 75°F (ADJ) COOLING SETPOINT
- A 70°F (ADJ) HEATING SETPOINT

DEADBAND OF 2°F BETWEEN HEATING AND COOLING SETPOINTS WILL BE MAINTAINED.

THE UNIT SHALL MAINTAIN CONSTANT AIRFLOW THROUGH ONE OF THE FOLLOWING:

- THE ZONE DAMPER SHALL MODULATE TO MAINTAIN A CONSTANT AIRFLOW DISTRIBUTED INTO THE ZONE.
- AT FULL COOLING THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- WHEN THE ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT.

AIR COOLED CHILLER POINT LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
CHILLER WATER SUPPLY TEMPERATURE	X							X		X
CHILLER WATER RETURN TEMPERATURE	X							X		X
CHILLED WATER PUMP 1 VFD Speed		X						X		X
CHILLED WATER PUMP 2 VFD Speed		X						X		X
CHILLER STATUS / ALARM			X					X	X	X
CHILLED WATER PUMP 1 VFD FAULT			X					X	X	X
CHILLED WATER PUMP 2 VFD FAULT			X					X	X	X
CHILLED WATER PUMP 1 STATUS			X					X		X
CHILLED WATER PUMP 2 STATUS			X					X		X
CHILLED WATER PUMP 1 LEAD/STANDBY			X					X		X
CHILLED WATER PUMP 2 LEAD/STANDBY			X					X		X
CHILLED WATER PUMP 1 START/STOP				X				X		X
CHILLED WATER PUMP 2 START/STOP				X				X		X
CHILLER ENABLE				X						X
CHILLED WATER PUMP 1 FAILURE									X	
CHILLED WATER PUMP 1 RUNNING IN HAND									X	
CHILLED WATER PUMP 1 RUNTIME EXCEEDED									X	
CHILLED WATER PUMP 2 FAILURE									X	
CHILLED WATER PUMP 2 RUNNING IN HAND									X	
CHILLED WATER PUMP 2 RUNTIME EXCEEDED									X	
CHILLER FAILURE									X	
CHILLER RUNNING IN HAND									X	
HIGH CHILLED WATER SUPPLY TEMPERATURE									X	
LOW CHILLED WATER SUPPLY TEMPERATURE									X	

VARIABLE TERMINAL AIR BOX POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
DISCHARGE AIR TEMPERATURE	X							X		X
ZONE SETPOINT ADJUST	X									X
AIRFLOW	X							X		X
ZONE TEMPERATURE	X							X		X
HOT WATER HEATING VALVE		X						X		X
ZONE DAMPER		X						X		X
AIRFLOW SETPOINT					X			X		X
COOLING/HEATING SETPOINT					X			X		X
DISCHARGE AIR TEMPERATURE HEATING LIMIT					X					
HEATING/COOLING MODE						X		X		
HIGH DISCHARGE AIR TEMPERATURE									X	
HIGH ZONE TEMPERATURE									X	
LOW DISCHARGE AIR TEMPERATURE									X	
LOW ZONE TEMPERATURE									X	

100% CONSTRUCTION DOCUMENTS	06/10/2026
ISSUE FOR CONSTRUCTION	11/25/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENTS	08/23/2024
Revisions:	Date:

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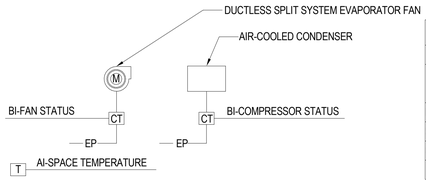
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - CONTROLS
Approved: Project Director
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATIONS TO BUILDING 217
Location: EDWARD J. HINES JR. VAMC
Issue Date: 06/10/2026
Checked: RAH
Drawn: TE
Project Number: 578-26-016
Building Number: 217
Drawing Number: M702

VA FORM 08-6231



DUCTFREE SPLIT SYSTEM POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
FAN STATUS			X							X
SPACE TEMPERATURE	X							X	X	X
COMPRESSOR STATUS			X				X		X	X

1. DUCTLESS SPLIT SYSTEMS:
   A. DUCTLESS SPLIT SYSTEMS SHALL HAVE SYSTEM MANUFACTURER'S STANDARD WALL-MOUNTED PROGRAMMABLE CONTROLLER. SYSTEM SHALL OPERATE UNDER ITS BUILT-IN, FACTORY INSTALLED CONTROL SYSTEM TO MAINTAIN ROOM TEMPERATURE SET POINT (72F). AN INDEPENDENT, WALL-MOUNTED TEMPERATURE SENSOR SHALL MONITOR ROOM TEMPERATURE AND SEND AN ALARM TO THE BMS PANEL IF ROOM TEMPERATURE RISES ABOVE 85F (ADJUSTABLE). HIGH TEMPERATURE ALARM SHALL REQUIRE MANUAL RESET. THE BMS SHALL MONITOR COMPRESSOR STATUS.

1 DUCTLESS SPLIT SYSTEM CONTROL DIAGRAM
NTS

Revisions:	Date:
100% CONSTRUCTION DOCUMENTS	06/10/2026
ISSUE FOR CONSTRUCTION	11/25/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENTS	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
30% SCHEMATIC DESIGN	11/23/2023

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - CONTROLS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

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Drawn: TE

Project Number: 578-26-016

Building Number: 217

Drawing Number: M703

VA FORM 08-6231

MOUNTING HEIGHTS FOR ELECTRICAL DEVICES

DEVICE	MOUNTING HEIGHTS
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
PLUGMOLD OR WIREMOLD	AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
CLOCK OUTLETS	12" CEILING TO CENTERLINE OR 7'-0" TO CENTERLINE IF CEILING IS OVER 8'-0".
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.
TELEPHONE OUTLETS - WALL TYPE	54" TO DIAL CENTER (NON-ACCESSIBLE). 48" TO HIGHEST OPERABLE PART (ACCESSIBLE).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.
FIRE ALARM MANUAL PULL STATIONS	48" TO HIGHEST OPERABLE PART - NOT MORE THAN 5'-0" FROM EXIT.
FIRE ALARM AUDIBLE ONLY DEVICE	NOT LESS THAN 90" TO TOP OR 6" BELOW CEILING, WHICH EVER IS HIGHER.
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWER.
AREA OF REFUGE TELEPHONE	SAME AS TELEPHONE - ACCESSIBLE.
CALL FOR AID SWITCH WITH PULL CHAIN TO FLOOR	48" TO CENTERLINE OF BOX MINIMUM (TOILETS). 66" TO CENTERLINE OF BOX MAXIMUM (SHOWERS - LOCATED OUT OF SPRAY AREA).
CARD READER	48" TO HIGHEST OPERABLE PART (SIDE OR FORWARD ACCESS).
INTERCOM STATION	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
SOUND SYSTEM VOLUME CONTROL	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
MICROPHONE OUTLETS	16" TO BOTTOM OF BOX.
THERMOSTATS	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.

NOTES:

1. ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.
2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.
3. OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.

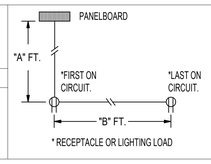
SPECIAL NOTES:

1. EXIT SIGNS SHALL NOT BE INSTALLED IN A MANNER THAT THE SIGN WILL BLOCK FIRE ALARM VISUAL DEVICES.
2. FOR LIGHTING FIXTURES MOUNTING HEIGHTS SEE SCHEDULE AND DRAWINGS.

WIRE SIZING TABLE

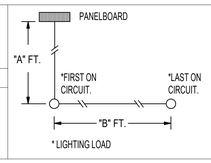
FOR 120V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FEET IS: (SEE DIAGRAMAT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.	
	WIRE SIZE	CONDUIT SIZE
0' TO 100'	#12 AWG (MIN.)	3/4"
100' TO 175'	#10 AWG	3/4"
175' TO 300'	#8 AWG	3/4"
300' TO 450'	#6 AWG (MAX.)	1"



FOR 277V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FEET IS: (SEE DIAGRAMAT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.	
	WIRE SIZE	CONDUIT SIZE
0' TO 250'	#12 AWG (MIN.)	3/4"
250' TO 400'	#10 AWG	3/4"
400' TO 700'	#8 AWG	3/4"
700' TO 1000'	#6 AWG (MAX.)	1"



NOTES:

1. TABLES ARE BASED ON EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET.
2. 480V MOTOR BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG IN 3/4" C UNLESS OTHERWISE NOTED.
3. SIZE OF CONDUCTORS ARE BASED UPON EACH MOTOR BEING FED WITH SEPARATE CONDUIT. IF CONDUCTORS FOR TWO MOTORS (MAX.) ARE TO BE COMBINED IN ONE CONDUIT, INCREASE THE SIZE OF CONDUCTORS AND CONDUITS PER NATIONAL ELECTRICAL CODE (NEC), TO COMPENSATE FOR CONDUCTOR DE-RATING.
4. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.

ELECTRICAL GENERAL NOTES

SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL REQUIREMENTS LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AND AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED BELOW.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) PROTOCOLS": IS TO BE FOLLOWED FOR ALL EQUIPMENT, MATERIAL AND ASSEMBLIES SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE FULL BOD EQUIVALENCY SUBSTITUTION REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

1. CODES

THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, STATE, NATIONAL CODES, AND ALL VA APPLICABLE DESIGN MANUALS STANDARDS REQUIREMENTS. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.), NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES ALONG WITH ALL DESIGN CRITERIA STD AND REQUIREMENTS. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW (UNLESS OTHERWISE NOTED) AND SHALL BEAR THE MARK OF NATIONALLY RECOGNIZED TESTING LABORATORY. ALL EQUIPMENT OF THE SAME TYPE AND CAPACITY SHALL BE BY THE SAME MANUFACTURER.

2. DRAWINGS AND SPECIFICATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.
CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL ELECTRICAL, ALL PLUMBING, AND ENTIRE SPECIFICATIONS. CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE BASE SCOPE OF WORK AT NO ADDITIONAL COST TO THE VA.

3. INTERPRETATION OF THE DOCUMENTS

CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE COR BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE BID, IT WILL NOT BE CONSIDERED EXTRA.
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, IN A NEAT AND WORKABLE MANNER CONSISTENT WITH RECOGNIZED GOOD PRACTICE, AND SHALL BE SUBJECT TO THE APPROVAL OF THE VA.
ANY CHANGES TO THE CONTRACT REQUIREMENTS MUST BE APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL KEEP UP-TO-DATE DRAWINGS, ON-SITE, AVAILABLE, INCLUDING ALLOWABLE DEVIATIONS FROM THE CONTRACT DRAWINGS.

4. ELECTRICAL DRAWINGS

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC. THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.

5. SITE EXAMINATION

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THIS VISIT SHALL ONLY BE ALLOWED AS PER THE VA SCHEDULED WALKTHROUGH AND THE SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH A VISIT HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH VISIT BEEN MADE.

CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK, AND FULLY INFORM HIMHER SELF AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF, SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

6. COORDINATION WITH OTHER TRADES

THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS, DAMPERS, LIFTS, AND OTHER SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL CHECK ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL TRADES WORK FOR POSSIBLE INTERFERENCE CAUSED BY CONDITIONS IN THE FIELD BEFORE THE BID IS MADE. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HISHER FAILURE TO HAVE MADE SUCH EXAMINATIONS OR OF ANY ERROR OF HISHER PART.

7. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR.

CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS AND TAXES APPLICABLE TO THIS DIVISION IF NECESSARY. (FEDERAL GOVERNMENT IS NOT SUBJECT TO LOCAL PERMITS OR FEE FOR THE PROJECT).

8. FIRE STOPPING

ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M CO OR APPROVED EQUAL.

9. PAINTING

ALL NEWLY INSTALLED EXPOSED PIPING SHALL BE PAINTED TO MATCH THE EXISTING ADJACENT WALL OR CEILING SURFACE.

10. VA FURNISHED EQUIPMENT

EQUIPMENT THAT WILL BE FURNISHED BY THE VA SHALL BE INDICATED ON A SEPARATE SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE VA FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR, IN COORDINATION WITH THE COR, WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE, PROTECT, AND ULTIMATELY INSTALL THE EQUIPMENT.

11. ELECTRICAL SERVICE DISRUPTIONS

ANY WORK INVOLVING A TASK WHICH EXPOSES ACTIVE BUS SHALL BE PERFORMED AFTER HOURS (11:00PM TO 5:00AM). THIS RESTRICTION INCLUDES REMOVING THE COVER FROM ANY PANEL BOARD, SWITCHBOARD, M.C.C. ETC. ALL WORK WHICH EXPOSES ACTIVE BUS REQUIRES A WRITTEN NOTIFICATION TO THE COR WHICH WILL OUTLINE THE METHOD OF PROCEDURE FOR THE WORK. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 WEEKS NOTICE TO THE COR BEFORE WORKING ON ANY ENERGIZED ELECTRICAL SYSTEM. ALL POWER DISRUPTION SHALL OCCUR AT TIMES AND OF DURATIONS ACCEPTABLE TO THE COR.

12. EQUIPMENT

ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND LABEL.
THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT SERVICES, AND ACCESSORIES FOR COMPLETE INSTALLATION OF ALL ELECTRICAL WORK AS NOTED. ITEMS OMITTED FROM EITHER THE SPECIFICATIONS OR THE DRAWINGS, BUT SHOWN OR DESCRIBED IN ONE OR THE OTHER, AND ITEMS NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL FORM A PART OF THE WORK.

13. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LUMINAIRE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
ANY MENTION OF A SPECIFIC VOLTAGE ON THE ELECTRICAL DRAWINGS SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE VOLTAGE PRIOR TO PURCHASING OR ROUGH-IN WORK.

14. DISTRIBUTION PANELS AND PANELS BOARDS

ALL DISTRIBUTION PANELS AND PANEL BOARDS SHALL BE PROVIDED WITH TYPEWRITTEN DIRECTORIES. SEE PANEL SCHEDULES ON THE DRAWINGS AND SPECIFICATION FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS. ALL DISTRIBUTION PANELS AND PANEL BOARDS SHALL BE LABELED ON THE PANEL CABINET WITH THE PANEL NAME AND THE POWER SOURCE FEEDING THE PANEL AS PER THE ELECTRICAL ONE LINE. ALL PANELS AND PANEL BOARDS SHALL BE PROVIDED WITH HINGED DOOR WITH LOCK AND KEY.

15. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE VA'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK

16. EQUIPMENT CONNECTIONS

PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL VA FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTION TO ALL VIBRATION PRODUCING EQUIPMENT.

17. TEMPORARY LIGHTING, POWER, FIRE, AND SAFETY

PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED IN AREAS UNDERGOING WORK DURING CONSTRUCTION. FURNISH AND INSTALL ONE OSHA APPROVED PIGTAIL SOCKET WITH LED EQUIVALENT 150-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE AND A MINIMUM 1 PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL.

FURNISH AND INSTALL POWER OUTLETS TO A TOTAL ONE FOR EVERY 2,000 SQUARE FEET OR PART THEREOF OF FLOOR AREA AND THESE SHALL BE 20 AMP, SINGLE PHASE RECEPTACLES FOR EITHER 110 VOLTS OR AS INDICATED ON THE DRAWINGS. COORDINATE ADDITIONAL TEMPORARY POWER AND REQUIREMENTS WITH OTHER TRADES TO PROVIDE AN ADEQUATE INSTALLATION.

COMPLY WITH NFPA 241 FOR SAFEGUARDING DURING CONSTRUCTION AND ALTERATION OPERATIONS. IN ADDITION, ANY OPENINGS IN FIRE RATED SEPARATIONS BETWEEN OCCUPIED AND UNOCCUPIED (OR OPERATIONAL AND NON-OPERATIONAL) AREAS SHALL BE SEALED AT THE END OF EACH WORK DAY WITH AN APPROPRIATE FIRE RATED ENCLOSURE OR SEALANT. DO NOT COMPROMISE EXISTING SECURITY OR FIRE ALARM SYSTEMS SERVING THE OCCUPIED OR OPERATIONAL AREAS.

DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO THE BUILDING WITHOUT ANY POWER OUTAGES OR INTERRUPTION AT ALL TIMES. SHOULD IT BE NECESSARY TO INTERRUPT ANY ELECTRICAL SERVICE OR UTILITY, THE CONTRACTOR SHALL REQUIRED PERMISSION IN WRITING FROM THE COR FOR SUCH INTERRUPTION AT LEAST 2 WEEKS IN ADVANCE. ANY INTERRUPTION SHALL BE MADE WITH A MINIMUM AMOUNT OF DOWNTIME TO THE VA. ANY SHUT-DOWN TIME SHALL HAVE TO BE ON A PREMIUM TIME BASIS AND SUCH TIME TO BE INCLUDED IN THE CONTRACTOR'S BID.
CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA), AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

18. POWER COORDINATION

THE CONTRACTOR SHALL PERFORM ALL COORDINATION AND SCHEDULING OF LOCAL POWER OUTAGES REQUIRED WITH THE COR. ALL NEEDED POWER OUTAGES TO BE SCHEDULED WITH THE COR TWO WEEKS IN ADVANCE.

19. CABLING

BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (15 OR 20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2 - #12, 1 - #12 GRD., 3/4" C. A SEPARATE NEUTRAL SHALL BE RUN FOR EACH CIRCUIT. SEE WIRE SIZING TABLE ON THIS SHEET.
ALL WIRE SIZE #12 AWG AND LARGER SHALL BE STRANDED AND SOLID FOR #14 AND SMALLER.

EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. ALL CONDUCTORS SHALL BE COPPER TYPE THWN / XHHW.

20. CABLING SIZES

BRANCH CIRCUIT CABLE SIZING SHALL BE ADJUSTED BASED ON THE VALUES INDICATED IN THE WIRE SIZING TABLE PER THIS SHEET.

21. SPECIAL LUG REQUIREMENTS

ANY CABLE WHICH TERMINATES DIRECTLY ON TO A BUS BAR SHALL BE 2 BOLT LONG BARREL TYPE WITH INSPECTION HOLES PRODUCED WITH NON FLASHING TYPE DYES AS MANUFACTURED BY THOMAS AND BETTS, OR EQUAL MINIMUM 10 TONS OF COMPRESSION, HEX CRIMP. THE USE OF HEAT SHRINK TUBING IS EXPLICITLY FORBIDDEN. THERE SHALL BE NO "SHINERS" AT THE LUGS.

22. RACEWAYS

ALL WIRE SHALL BE INSTALLED IN THIN WALL (E.M.T.) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" EXCEPT FOR DROPS FOR DEVICES, SWITCH LEGS, TEMPERATURE CONTROL CONDUITS, WHERE INDICATED OR AS CALLED FOR ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE.

ALL UNDERFLOOR, UNDERGROUND OR EXPOSED-TO-WEATHER CONDUIT SHALL BE HEAVYWALL GALVANIZED RIGID STEEL. (G.R.S.), MINIMUM 3/4".

ALL CONDUIT FASTENERS, STRAPS, SUPPORTS ETC. MUST BE "BOLT-ON" GALVANIZED STEEL ON EXPOSED CONSTRUCTION AND IN WET AREAS. SNAP-ON BLACK METAL "CADDY" CLIPS IN METAL PARTITION WALLS AND ABOVE SUSPENDED CEILINGS WILL BE PERMITTED. ALL FASTENERS, STRAPS, CLIPS, ETC. SHALL BE UL LISTED FOR THEIR USE.

SUPPORT CONDUIT WITH P1000 UNISTRUT OR APPROVED EQUAL WITH 3/8" THREADED ROD 8'-0" O.C. MAX.

PROVIDE MYERS HUBS OR EQUAL FOR ALL CONDUIT TO ENCLOSURE CONNECTIONS.

ALL CONDUIT RACEWAYS SHALL BE CONCEALED IN OR WITHIN: WALLS, CEILING CAVITY, ROOF CONSTRUCTION (WHERE APPROVED), SLAB, GRADE, ETC. UNLESS OTHERWISE NOTED. ANY RACEWAY THAT IS TO BE ROUTED EXPOSED SHALL BE APPROVED BY THE VACOR AND SUCCESSFULLY REVIEWED BY THE ARCHITECTENGINEER. PRIOR TO INSTALLATION. ALL CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS WITH 90° BENDS WHERE REQUIRED AND SHALL BE RACKED. PULL AND JUNCTION BOXES SHALL BE HELD TO A MINIMUM. CONTRACTOR SHALL INSTALL ALL WORK IN NEAT & WORK LIKE MANNER.

GROUND ALL CONDUITS, MOTORS, AND EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. VA SPECIFICATION SECTION 26 05 26 "GROUNDING AND BONDING FOR ELECTRICAL SYSTEM".

CONTRACTOR SHALL PROVIDE BOXES, JUNCTION BOXES, SPLICE BOXES AND FITTINGS WHERE NECESSARY OR REQUIRED BY THE NEC.

ALL ELECTRICAL CONDUITS TO A MINIMUM OF 3/4". MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

PROVIDE COLOR RED CONDUIT FOR FIRE ALARM. WHERE CORE DRILLING AND CUTTING OF FLOORS OR WALLS IS REQUIRED, X RAY THE AREAS PRIOR TO DRILLING. AVOID INTERFERENCE WITH EXISTING CONCEALED ELECTRICAL, PLUMBING INSTALLATIONS REINFORCING STEEL. REFINISH DAMAGED AND CUT SURFACES TO MATCH ADJACENT FINISHES.

CONTRACTOR SHALL FIREPROOF ALL CONDUIT OPENINGS BETWEEN FLOORS AND ANY INTERSPACE FIRE SEPARATION BLOCK WALLS WITH AN COR APPROVED U.L. LISTED FIRE RETARDANT MATERIAL AS SUCCESSFULLY REVIEWED BY ARCHITECT/ENGINEER.

23. LIGHTING

ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.

24. RECEPTACLES

CONTRACTOR SHALL VERIFY ALL OUTLET MOUNTING ARRANGEMENTS, HEIGHTS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, HEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT WITH THE EQUIPMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR OUTLETS IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK ETC. THE VA RESERVES THE RIGHT TO RELOCATE ANY DEVICE 10'-0" PRIOR TO ROUGH-IN WITHOUT ANY ADDITIONAL CHARGES BY THE CONTRACTOR.

OUTLET BOXES MOUNTED BACK-TO-BACK IN THE SAME WALL ARE PROHIBITED. A MINIMUM 24" CENTER-TO-CENTER LATERAL SPACING SHALL BE MAINTAINED BETWEEN BOXES.

ALL DUPLEX RECEPTACLES SHALL BE HOSPITAL GRADE NEMA 5-20R.

ALL EMERGENCY POWER OUTLETS SHALL BE RED IN COLOR. IN ROOMS WITHOUT GENERAL ILLUMINATION ON EMERGENCY POWER, EMERGENCY RECEPTACLES SHALL BE OF THE SELF ILLUMINATED TYPE.

25. GUARANTEE

ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD AS PER VA SPECIFICATION, UNLESS OTHERWISE NOTED. ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE VA.

26. FINAL INSPECTION

ALL THE ITEMS AND WORK SHALL BE TESTED FOR SAFE, PROPER OPERATIONS.

UPON COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE VA'S PROPERTY, LEAVING THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY CARTON, DEBRIS, ETC. FOR EQUIPMENT INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY THE VA. THE ABOVE SHALL ALSO APPLY TO ALL EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTON, BY THE CONTRACTOR.

GENERAL NOTES - DEMOLITION

1. EXAMINATION
   A. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE AREAS UNDERWHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE VA IN WRITING OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL SATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
   B. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS FOR DEVICES SHOWN ON DRAWINGS.
   C. DEMO

ELECTRICAL SYMBOLS - DIAGRAM

- INCOMING LINE
- GROUND
- DELTA CONNECTION
- WYE CONNECTION
- SURGE AND LIGHTNING ARRESTER
- POTHEAD
- STRESS CONE
- TRANSFORMER
- CONTACTOR
- EARTH GROUND
- PB — PULL BOX
- NORMALLY CLOSED RELAY CONTACT
- NORMALLY OPEN RELAY CONTACT
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- MEDIUM-VOLTAGE OIL CIRCUIT BREAKER
- MEDIUM-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- SWITCH AND FUSE UNIT
- FUSIBLE SWITCH
- FUSED DRAWOUT POTENTIAL TRANSFORMER
- CONTROL OR POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- CABLE AND CONDUIT TAG SEE SCHEDULE
- EQUIPMENT TAG SEE EQUIPMENT SCHEDULE
- ST — SHUNT TRIP
- A — AMMETER
- AS — AMMETER SELECTOR SWITCH
- V — VOLTMETER
- VS — VOLTMETER SELECTOR SWITCH
- M — UTILITY METER
- CM — OWNER METER
- KWH — KILOWATT HOUR METER
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- GF — GROUND FAULT

ELECTRICAL SYMBOL - HVAC POWER PLAN

- 2KW 1/8HP — FP 1 — CP — T — FAN POWERED BOX
- UH 1 — CP 1/4 — UNIT HEATER (GAS OR HOT WATER TYPE)
- 10KW 1/8HP — EUH 1 — CP 1/8 — UNIT HEATER (ELECTRIC COIL)
- VAV 1 — CP — VAV BOX
- FCU XX — CCT. XX — 30A/1P — CONDENSATE PUMP
- UNIT HEATER

ELECTRICAL SYMBOL - POWER PLAN

- MOTOR, SINGLE-PHASE
- MOTOR, THREE-PHASE
- TRANSFORMER, PLAN
- WYE CONNECTION
- EARTH GROUND
- J — POWER JUNCTION BOX
- A/V — DOUBLE GANG DEEP AUDIO/VISUAL JUNCTION BOX
- LADDER CABLE TRAY
- HOMERUN TO PANELBOARDS. 4#10 + 1#12 GROUND IN 3/4" CONDUIT
- PB — PULL BOX
- WIREWAY
- REGULAR POWER
- LIFE SAFETY POWER
- CRITICAL POWER
- PANELBOARD
- RECEPTACLE, DUPLEX
- RECEPTACLE, DUPLEX MOUNTED AT 44"
- RECEPTACLE, DUPLEX ON CRITICAL POWER
- GFCI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
- GFCI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER MOUNTED AT 44"
- RECEPTACLE, QUADRAPLEX
- RECEPTACLE, QUADRAPLEX MOUNTED AT 44"
- RECEPTACLE, QUADRAPLEX ON CRITICAL POWER
- FLOOR RECEPTACLE, DUPLEX
- FLOOR RECEPTACLE, DUPLEX ON CRITICAL POWER
- FLOOR RECEPTACLE, QUADRAPLEX
- FLOOR RECEPTACLE, QUADRAPLEX ON CRITICAL POWER
- CEILING MOUNTED RECEPTACLE
- CEILING MOUNTED RECEPTACLE ON CRITICAL POWER
- L6-30R TWIST LOCK RECEPTACLE ON NORMAL POWER, 250V, TWO-POLE, 3W GROUNDED
- L6-30R TWIST LOCK RECEPTACLE ON CRITICAL POWER, 250V, TWO-POLE, 3W GROUNDED
- ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" AFF OR AS INDICATED.
- PP — AUTOMATIC DOOR OPERATOR PUSH PLATE
- TC — TIME CLOCK
- CONDUIT STUBBED DOWN
- CONDUIT STUBBED UP
- FLEXIBLE CONDUIT
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- J — JUNCTION BOX WITH DISCONNECT SWITCH AND FLEXIBLE CONDUIT CONNECTION
- J — EQUIPMENT CONNECTION
- EMERGENCY POWER OFF PUSHBUTTON
- BELL
- B — BUZZER
- DOCK DOOR POSITION INDICATOR LIGHT
- T — THERMOSTAT, WALL MOUNTED PULL CORD
- H — HUMIDISTAT, WALL MOUNTED

MOTORS AND CONTROLS

- XX — SINGLE PHASE MOTOR (HP AS INDICATED)
- XX — THREE PHASE (HP AS INDICATED)
- 30A/20A — DISCONNECT SWITCH, FUSED (SWITCH/FUSE RATING)
- 30A — DISCONNECT SWITCH, UNFUSED (SWITCH RATING)
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- VFD — VARIABLE FREQUENCY DRIVE

ELECTRICAL SYMBOLS - LIGHTING PLAN

- $2 — SWITCH
  BLANK = SINGLE POLE; 3 = THREE-WAY; 4 = FOUR-WAY; K = KEY OPERATED; DM= DIMMER; P = WITH PILOT LIGHT; LV= LOW VOLTAGE; TM = TIMER OPERATED; WP=WEATHER PROOF; X = EXPLOSION PROOF; T= THERMAL OVERLOAD PROTECTION; OS= OCCUPANCY SENSOR
- OS — SWITCH, OCCUPANCY SENSOR REFER TO FIXTURE SCHEDULE FOR TYPE
- PC — SWITCH, EXTERIOR PHOTO CELL FOR CONTROL OF EXTERIOR LIGHTING
- SWITCH, LAMP HOLDER POLE
- LIGHT FIXTURE RECESSED ROUND CEILING MOUNTED DOWNLIGHT
- LIGHT FIXTURE RECESSED SQUARE CEILING MOUNTED DOWNLIGHT
- LIGHT FIXTURE, RECESSED LED, 2'x4'
- LIGHT FIXTURE, RECESSED LED 1'x4'
- LIGHT FIXTURE, RECESSED LED, 2'x2'
- S — LIGHT FIXTURE, LED, 2'x4' LETTER INDICATES MOUNTING TYPE i.e. LETTER "S" INDICATES SURFACE MOUNTED.
- S — LIGHT FIXTURE, LED, 1'x4' LETTER INDICATES MOUNTING TYPE i.e. LETTER "S" INDICATES SURFACE MOUNTED.
- S — LIGHT FIXTURE, LED, 2'x2' LETTER INDICATES MOUNTING TYPE i.e. LETTER "S" INDICATES SURFACE MOUNTED.
- LIGHT FIXTURE, LED CRITICAL POWER
- LIGHT FIXTURE, LED LIFE SAFETY
- LIGHT TRACK WITH HEADS AS SHOWN
- LIGHT FIXTURE, STRIP/INDUSTRIAL LED; LETTER INDICATES TYPE.
- LIGHTING, UNDERCABINET LIGHT/COVE LIGHT
- EMERGENCY BATTERY BACK-UP EGRESS LIGHT
- DOUBLE FACED CEILING OR WALL MOUNTED EXIT SIGN. ARROW INDICATES DIRECTION
- SINGLE FACED CEILING OR WALL MOUNTED EXIT SIGN. ARROW INDICATES DIRECTION
- LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE
- LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES
- LIGHT POLE, POST TOP MOUNT LUMINAIRE
- LIGHT POLE, ONE LUMINAIRE
- LIGHT POLE, TWO LUMINAIRES
- LIGHTING WALL PACK - EXTERIOR BUILDING
- LIGHTING LANDSCAPE WALL
- LIGHT FIXTURE, BOLLARD, ROUND
- LIGHT FIXTURE, BOLLARD, SQAURE
- LIGHT FIXTURE, DIRECTIONAL

ELECTRICAL SYMBOLS - COMM. / DATA PLAN

- 3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.
- THREE PORT TELEPHONE DATA OUTLET - MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
- FOUR PORT TELEPHONE/DATA OUTLET - MOUNTED 18" AFF UNLESS OTHERWISE NOTED. CABLE AND JACK COLOR AS FOLLOW VOICE - WHITE, GREEN - VOIP, BLUE - DATA, RED - DATA
- FLOOR MOUNTED FOUR PORT TELEPHONE/DATA OUTLET
- TELEPHONE OUTLET - WALL MOUNTED
- GETWELL NETWORK DATA OUTLET
- CEILING MOUNTED DATA OUTLET
- WAP — WIRELESS ACCESS POINT
- S PA S — SPEAKER FOR PUBLIC ANNOUNCEMENT
- TV CS — HDMI OUTLET - CEILING/WALL
- TV — COAXIAL OUTLET - CEILING/WALL
- TV — TELEVISION ANTENNA SYSTEM OUTLET - CEILING/WALL
- TV OUTLET - +84" A.F.F. OTHERWISE NOTED

FIRE ALARM SYMBOLS

- F SD — STANDARD, CEILING MOUNTED SMOKE DETECTOR
- F SSD — SOUNDER BASE, CEILING MOUNTED SMOKE DETECTOR
- F HD — RATE-OF-RISE STD, CEILING MOUNTED HEAT DETECTOR
- 135 F HD — FIXED TEMP (135°), CEILING MOUNTED HEAT DETECTOR
- DUCT SMOKE DETECTOR W/REMOTE TEST STATION
- P — MANUAL PULL STATION WP-WEATHERPROOF HOUSING WP INDICATES WEATHERPROOF HOUSING FOR DUCTU
- F HS — CEILING MOUNTED HORN/STROBE (A/V)
- F ST — CEILING MOUNTED STROBE
- F SP — CEILING MOUNTED FIRE ALARM SPEAKER
- F SPS — CEILING MOUNTED FIRE ALARM SPEAKER/STROBE
- F HS — WALL MOUNTED HORN/STROBE
- F ST — WALL MOUNTED STROBE
- F SP — WALL MOUNTED FIRE ALARM SPEAKER
- F SPS — WALL MOUNTED FIRE ALARM SPEAKER/STROBE
- CHIME
- FA — FIRE ALARM LINE = FA
- DH — ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET
- TS — TEMPER SWITCH
- FS — FLOW SWITCH
- PS — PRESSURE SWITCH
- LS — LEVEL SWITCH
- VTS — VALVE TAMPER SWITCH
- VSS — VALVE SUPERVISORY SWITCH
- FACP — FIRE ALARM CONTROL PANEL
- MM — MONITOR MODULE
- CM — CONTROL MODULE
- FIRE FIGHTERS TELEPHONE JACK
- RTS/I — REMOTE TEST SWITCH W/INDICATOR
- Z — F.A. ZONE ADDRESSABLE MODULE
- I — F.A. INDIVIDUAL ADDRESSABLE MODULE
- F.A. DOOR HOLDER
- F.A. DOOR CLOSER
- FR — FIRE ALARM SHUT DOWN RELAY

ELECTRONIC SAFETY AND SECURITY SYMBOLS

- CR — WALL MOUNTED CARD READER
- DC — DOOR CONTACT (SN-CSD80-W)
- ES — ELECTRIC STRIKE (DS160I)
- ML — MAG LOCK
- REX — REQUEST TO EXIT PUSH BUTTON
- CR/K — WALL MOUNTED CARD READER WITH KEYPAD
- ACP — ACCESS CONTROL PANEL
- ACP — ACCESS CONTROL PANEL (LNL-AL400ULX)
- ACPS — ACCESS CONTROL POWER SULLPY (AL600ULACMCB)
- KP — KEYPAD LOCK
- AIP — AIPHONE
- DC — DOOR CONTACT/DOOR POSITION SWITCH
- RX — REQUEST TO EXIT MOTION
- ES — DOOR LOCKING MECHANISM/ELECT STRIKE
- ML — DOOR LOCKING MECHANISM/MAG LOCK
- P A — SECURITY / DURESS-ALARM BUTTON MOUNTED 3" ABOVE COUNTER TOP / COUNTER TOP BACK SPLAH
- C — CEILING MOUNTED SECURITY CAMERA
- C — WALL MOUNTED SECURITY CAMERA
- ROOF POLE MOUNTED SECURITY CAMERA
- CCP — CAMERA CONTROL PANEL
- RTLS — REAL TIME LOCATING SYSTEM
- QTS — CENTRAX EQUIPMENT TRACKING SYSTEM
- MID — MOTION INTRUSION DETECTOR
- GB — GLASS BREAK SENSOR

NURSE CALL SYMBOLS

- N D — NURSE CALL, CEILING MOUNTED DOME LIGHT
- N P — NURSE CALL, WALL MOUNTED PULL CORD
- N D — NURSE CALL, WALL MOUNTED DOME LIGHT
- N BI — NURSE CALL, WALL MOUNTED BED INTERFACE
- N SA — NURSE CALL, WALL MOUNTED STAFF ASSIST
- N DS — NURSE CALL, WALL MOUNTED DUTY STATION
- N ST — NURSE CALL, WALL MOUNTED STAFF TERMINAL
- N CB — NURSE CALL, WALL MOUNTED CODE BLUE
- N MS — NURSE CALL, COUNTER MOUNTED MASTER STATION

ELECTRICAL ABBREVIATIONS

1PH	SINGLE-PHASE	EC	EMPTY CONDUIT	NEUT OR N	NEUTRAL
1P	SINGLE POLE	EG	EQUIPMENT GROUND	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
2/C	TWO-CONDUCTOR	EL	ELEVATION	NIC	NOT IN CONTRACT
3/C	THREE-CONDUCTOR	ELEC	ELECTRIC OR ELECTRICAL	NL	NIGHT LIGHT
3PH	THREE-PHASE	ELEV	ELEVATOR	NO	NORMALLY OPEN
4/C	FOUR-CONDUCTOR	EMCP	EMERGENCY MONITORING CONTROL PANEL	NS	NO SCALE
4W	FOUR-WIRE	EMER	EMERGENCY	NTS	NOT TO SCALE
		EMI	ELECTROMAGNETIC INTERFERENCE		
A/C UNIT	AIR CONDITIONING UNIT	EMT	ELECTRICAL METALLIC TUBING	OC	ON CENTER
A/E	ARCHITECT/ENGINEER	ENCL	ENCLOSURE	OD	OUTSIDE DIAMETER
AAP	ALARM ANNUNCIATOR PANEL	EPO	EMERGENCY POWER OFF	OL	OVERLOAD
AC	ALTERNATING CURRENT OR ARMORED CABLE	EPRF	EXPLOSION PROOF		
ACC	ACCESSIBLE	ESMT	EASEMENT	P	POLE
ADDL	ADDITIONAL	EWC	ELECTRIC WATER COOLER	PA	PUBLIC ADDRESS
ADJ	ADJACENT, ADJOINING	EWH	ELECTRIC WATER HEATER	PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
ADO	AUTOMATIC DOOR OPENER	EXIST, EX	EXISTING	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
AF	AMPERE FRAME OR AMP FUSE			PCB	POLYCHLORINATED BIPHENYL
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY	FA	FIRE ALARM	PEC	PHOTOELECTRIC CELL
	CONTROL, OR AVAILABLE FAULT CURRENT	FAAP	FIRE ALARM ANNUNCIATOR PANEL	PED	PEDESTAL
AFF	ABOVE FINISHED FLOOR	FABL	FIRE ALARM BELL	PEND	PENDANT
AFG	ABOVE FINISHED GRADE	FABX	FIRE ALARM BOX	PF	POWER FACTOR
AH	AMPERE HOUR	FACP	FIRE ALARM CONTROL PANEL	PH	PHASE
AHJ	AUTHORITY HAVING JURISDICTION	FC	FOOTCANDLE	PNL	PANEL
AIC	AMPERE INTERRUPTING CAPACITY	FI	FILM ILLUMINATOR	POD	POWER OPERATED DAMPER
ALT	ALTERNATE	FIXT	FIXTURE	PT	POTENTIAL TRANSFORMER
AMB OR A	AMBIENT	FLA	FULL LOAD AMPS	PTRV	POWER TYPE ROOF VENTILATION
AMP	AMPERE	FLEX	FLEXIBLE METALLIC CONDUIT	PVC	POLYVINYL CHLORIDE (PLASTIC)
ARCH	ARCHITECT	FLT	FLOODLIGHT	PWR	POWER
ASC	AMPS SHORT CIRCUIT	FLUOR	FLUORESCENT		
AT	AMPERE TRIP	FLUOR FIX	FLUORESCENT FIXTURE	RCP	REFLECTED CEILING PLAN
ATS	AUTOMATIC TRANSFER SWITCH	FOUTT	TELEPHONE FLOOR OUTLET	REC	RECESSED
AUTO	AUTOMATIC	FP	FIRE PROTECTION	RECPT	RECEPTACLE
AV	AUDIO VISUAL	FT	FEET OR FOOT	RGS	RIGID GALVANIZED STEEL
		FU SW	FUSED SWITCH	RM	ROOM
BAT	BATTERY	FVNR	FULL VOLTAGE NON-REVERSING	RMS	ROOT MEAN SQUARE
BC	BARE COPPER	FVR	FULL VOLTAGE REVERSING	REQD	REQUIRED
BD	BOARD				
BFF	BELOW FINISH FLOOR	G OR GND	GROUND OR GENERATOR	SCC	SHORT CIRCUIT CAPACITY
BIL	BASIC INSULATION LEVEL	GEN	GENERATOR	SES	SERVICE ENTRANCE SECTION
BLDG	BUILDING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SD	SMOKE DETECTOR
BPIP	BOILER PLANT INSTRUMENTATION PANEL	GTB	GROUND TERMINAL BOX	SF	SQUARE FOOT (FEET)
BRKR	BREAKER			SHT	SHEET
BYP	BY PASS	HID	HIGH INTENSITY DISCHARGE	SI	INTERNATIONAL SYSTEM OF UNITS
		HOA	HAND-OFF-AUTOMATIC	SPEC	SPECIFICATION
C	CONDUIT	HP	HORSEPOWER	SPST	SINGLE POLE, SINGLE THROW
CAB	CABINET	HT	HEIGHT	SURF	SURFACE
CALC	CALCULATE	HZ	HERTZ	SW	SWITCH
CAP	CAPACITY			SWBD	SWITCHBOARD
CAT	CATALOG	IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA	SWGR	SWITCHGEAR
CATV	COMMUNITY ANTENNA TELEVISION	IMC	INTERMEDIATE METAL CONDUIT		
CCR	CONTROL CONTACTOR	INCAND	INCANDESCENT	TC	TIME CLOCK
CCTV	CLOSED CIRCUIT TELEVISION	IR	INFRARED	TEL	TELEPHONE
CB	CODE BLUE	IWH	INSTANTANEOUS WATER HEATER	TP	TWISTED PAIR
cd	CANDELA			TPS	TWISTED PAIR SHIELDED
CD	CONSTRUCTION DOCUMENTS	J-BOX, JB	JUNCTION BOX	TTB	TELEPHONE TERMINAL BOARD
CF	CONTRACTOR FURNISHED			TV	TELEVISION
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	kV	KILOVOLT	TYP	TYPICAL
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	kVA	KILOVOLT AMPERE		
CFE	CONTRACTOR FURNISHED EQUIPMENT	kVAH	KILOVOLT AMPERE PER HOUR	UFD	UNDERFLOOR DUCT
CHW	CHILLED WATER	kVAR	KILOVOLT AMPERE REACTIVE	UGND	UNDERGROUND
CHWP	CHILLED WATER PUMP	kW	KILOWATT	UL	UNDERWRITERS LABORATORY
CKT	CIRCUIT	kWH	KILOWATT HOUR	UON	UNLESS OTHERWISE NOTED
CKT BRKR	CIRCUIT BREAKER	kWHM	KILOWATT HOUR METER	UPS	UNINTERRUPTIBLE POWER SUPPLY
CLF	CURRENT LIMITING FUSE			UTIL	UTILITY
CLG	CEILING	LED	LIGHT EMITTING DIODE		
CMU	CONCRETE MASONRY UNIT	LF	LINEAR FEET (FOOT)	V	VOLT
COAX	COAX CABLE	LM	LUMEN	VA	VOLT AMPERE
COMM	COMMUNICATION	LP	LIGHT POLE	VAR	VOLT AMPERE REACTIVE
COMPT	COMPARTMENT	LPS	LOW PRESSURE SODIUM	VFD	VARIABLE FREQUENCY DRIVE
CONC	CONCRETE	LRA	LOCKED ROTOR AMPS	VOLT	VOLTAGE
CONT	CONTINUE	LTCP	LOCAL TEMPERATURE CONTROL PANEL		
CONTR	CONTRACTOR	LT	LIGHT	W	WATT
COORD	COORDINATE	LTG	LIGHTING	WH	WATER HEATER
CPT	CONTROL POWER TRANSFORMER	LTG PNL	LIGHTING PANEL	WP	WEATHERPROOF
CRI	COLOR RENDERING INDEX	LTNG	LIGHTNING		
CT	CURRENT TRANSFORMER	LV	LOW VOLTAGE	XFER	TRANSFER
CTV	CABLE TELEVISION			XFMR	TRANSFORMER
CU	COPPER	MATV	MASTER ANTENNA TELEVISION SYSTEM		
CU FT	CUBIC FEET	MAX	MAXIMUM		
CUR	CURRENT	MC	METAL-CLAD		
		MCA	MINIMUM CIRCUIT AMPS		
DB	DECIBEL OR DIRECT BURIAL	MCB	MAIN CIRCUIT BREAKER		
DC	DIRECT CURRENT	MCC	MOTOR CONTROL CENTER		
DCP	DIMMER CONTROL PANEL	MDP	MAIN DISTRIBUTION PANEL		
DEG C	DEGREES CELSIUS	MECH	MECHANICAL		
DEG F	DEGREES FAHRENHEIT	MG	MOTOR GENERATOR		
DEMO	DEMOLITION	MH	MANHOLE		
DIAG	DIAGRAM	MIN	MINIMUM		
DISC	DISCONNECT	MOCP	MAXIMUM OVERCURRENT PROTECTION		
DISTR	DISTRIBUTION	MLO	MAIN LUGS ONLY		
DISTR PNL	DISTRIBUTION PANEL	MT	MOUNT		
DMR SW	DIMMER SWITCH	MTD	MOUNTED		
DN	DOWN	MTG	MOUNTING		
DPDT	DOUBLE POLE, DOUBLE THROW	MTS	MANUAL TRANSFER SWITCH		
DPST	DOUBLE POLE, SINGLE THROW	MV	MEDIUM VOLTAGE		
DRSW	DOOR SWITCH	MVA	MEGAVOLT-AMPERE		
DS	DISCONNECT SWITCH	MW	MEGAWATT MICROWAVE		
DWG	DRAWING				
		NA	NOT APPLICABLE		
		NAC	NOTIFICATION APPLIANCES CIRCUIT PANEL		
		NEC	NATIONAL ELECTRICAL CODE		
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		

GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

Revisions:	Date:
100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
30% DESIGN DEVELOPMENT	11/23/2023

CONSULTANT

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - SYMBOLS AND ABBREVIATIONS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: JC

Project Number: 578-26-016

Building Number: 217

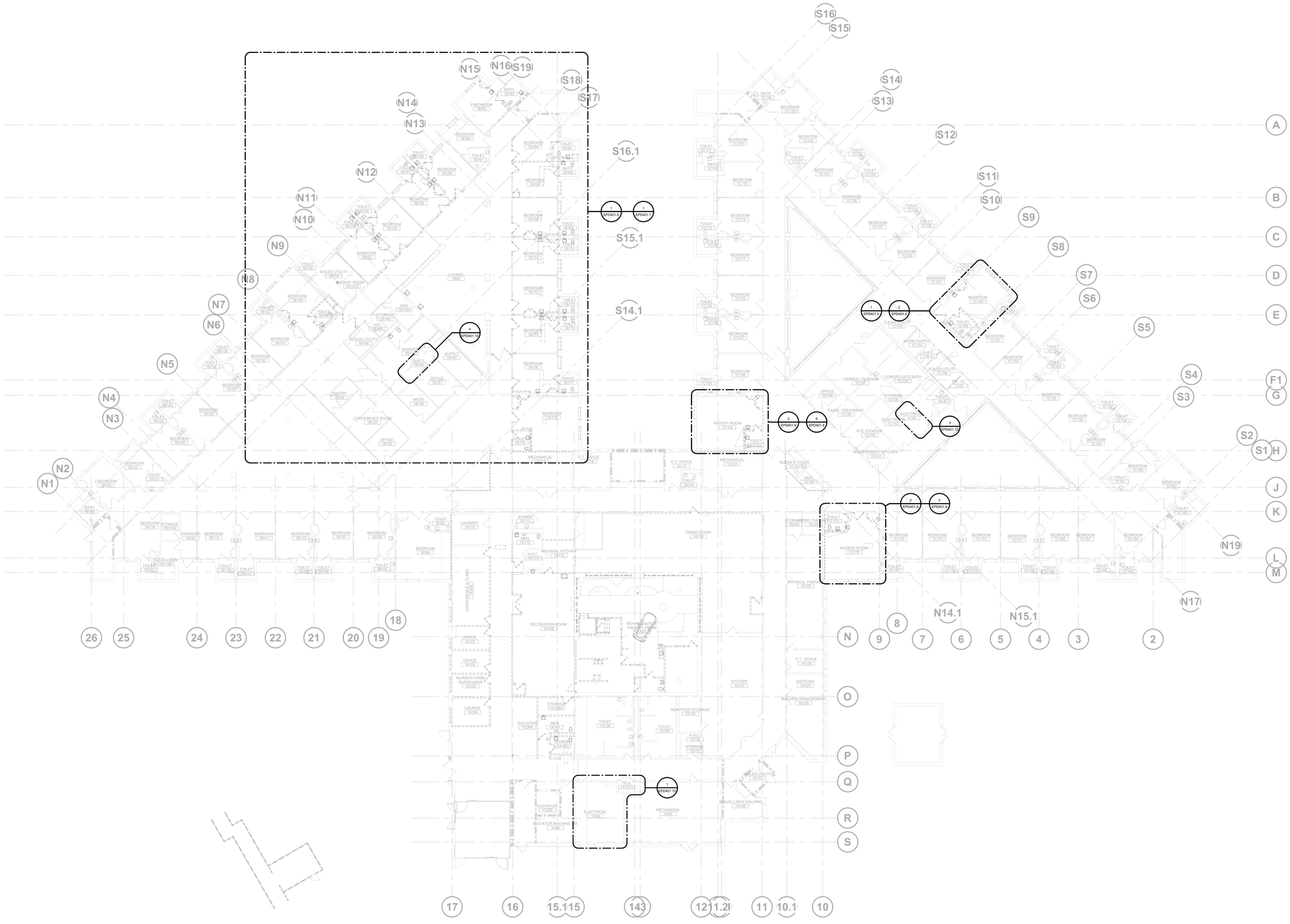
Drawing Number: E002

VA FORM 08-6231

ELECTRICAL DEMOLITION GENERAL NOTES

A. REFER TO E-001 ELECTRICAL GENERAL CONSTRUCTION NOTES.

B. ANY EXISTING CEILING MOUNTED SPEAKER, STROBE, AND SMOKE DETECTORS TO BE RE-USED UNLESS OTHERWISE NOTED.



N

1 **ELECTRICAL - DEMOLITION OVERALL PLAN, FIRST FLOOR**

1/16" = 1'-0"

BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - OVERALL DEMO PLAN, FIRST FLOOR

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

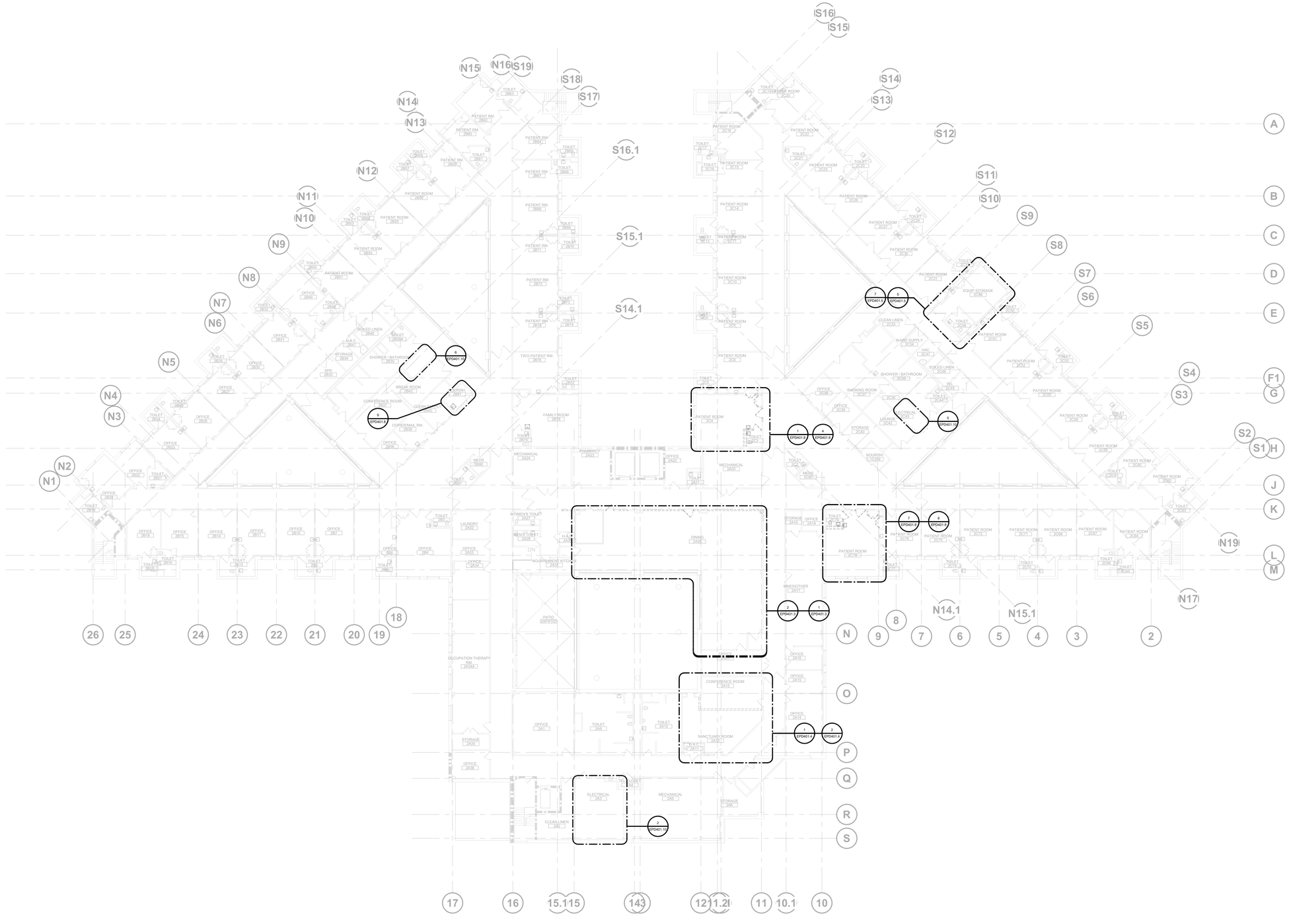
Drawing Number: EPD101

VA FORM 08-6231

ELECTRICAL DEMOLITION GENERAL NOTES

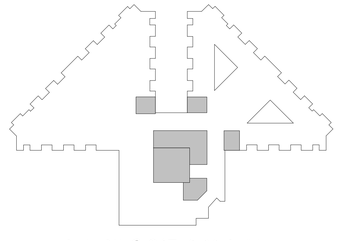
A. REFER TO E-001 ELECTRICAL GENERAL CONSTRUCTION NOTES.

B. ANY EXISTING CEILING MOUNTED SPEAKER, STROBE, AND SMOKE DETECTORS TO BE RE-USED UNLESS OTHERWISE NOTED.



N 1 **ELECTRICAL - DEMOLITION OVERALL PLAN, SECOND FLOOR**

1/16" = 1'-0"



BUILDING 217 KEY PLAN

Revisions:	Date:
100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - OVERALL DEMO PLAN, SECOND FLOOR

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

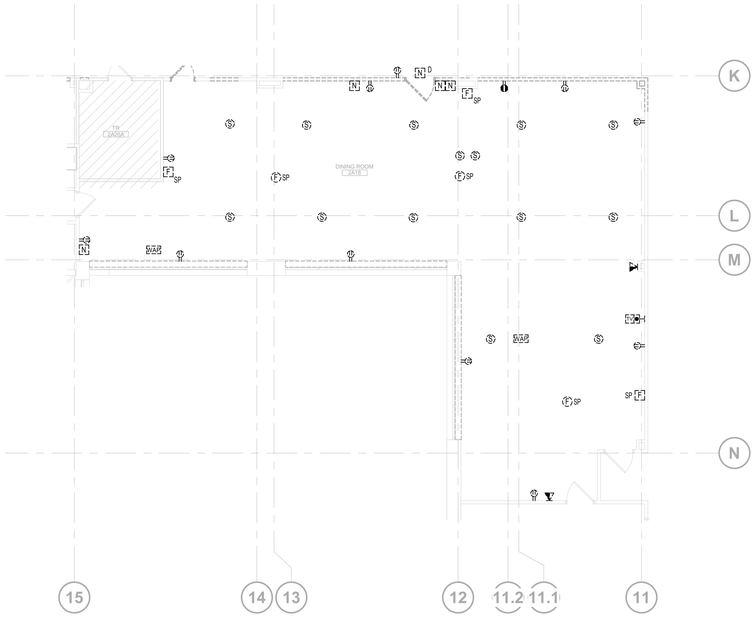
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD102

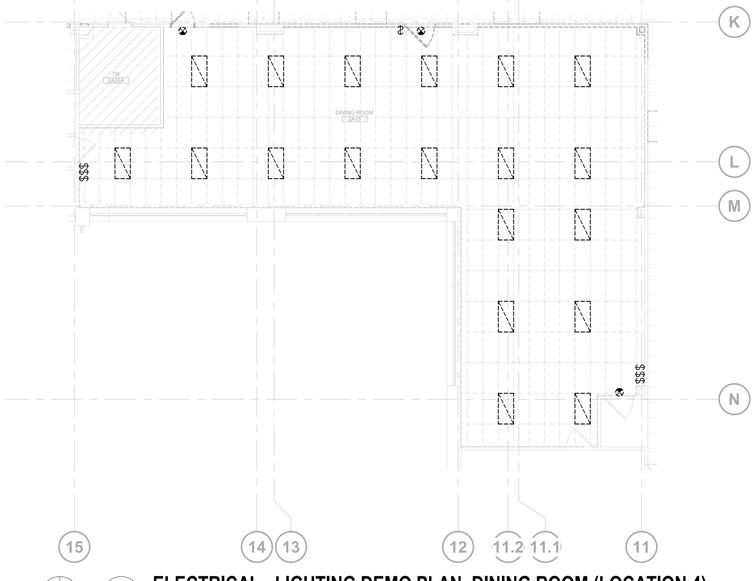
VA FORM 08-6231



N

2 **ELECTRICAL - POWER DEMOLITION PLAN, DINING ROOM (LOCATION 4)**

1/8" = 1'-0"



N

1 **ELECTRICAL - LIGHTING DEMO PLAN, DINING ROOM (LOCATION 4)**

1/8" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

C. LOW VOLTAGE DEVICES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO SOURCE.

D. REMOVE ALL ABANDONED WIRING AND CONDUIT BACK TO SOURCE.

E. EXISTING CIRCUITS OUTSIDE OF SCOPE OF WORK SHALL BE EXISTING TO REMAIN. IF CIRCUITS ARE AFFECTED FROM NEW CONSTRUCTION, CONTRACTOR SHALL CIRCUIT TRACE AS NECESSARY. CIRCUITS FOR THESE INTERRUPTED CIRCUITS SHALL BE NEW WIRING. ALL CIRCUITS THAT ARE SHARED WITH DEVICES OUTSIDE THE AREA OF DEMOLITION SHALL REMAIN POWERED AND SHALL BE RECONNECTED TO THE EXISTING ASSOCIATED PANEL FEEDING THESE ITEMS. CONTINUITY SHALL BE CHECKED FOR ALL LIGHTING, OUTLETS, COMMDATA OUTLETS, FIRE ALARM DEVICES IN THE AREAS NOT BEING REMODELED TO ENSURE PROPER FUNCTIONING.

F. ALL ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED INCLUDING WIRING, BOXES AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

G. ALL ELECTRICAL LUMINAIRES AND LIGHTING CONTROLS SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED, UNLESS OTHERWISE NOTED.

H. NORMAL POWER AND LIFE SAFETY LIGHTING BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

I. EMERGENCY EXIT SIGN BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

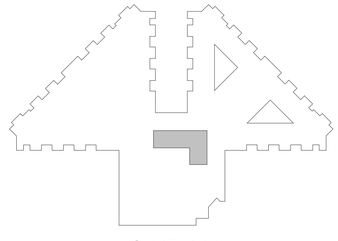
J. WIRELESS ACCESS POINTS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING BACK TO SOURCE. THE SAME WIRELESS ACCESS POINTS SHALL BE RE-USED IN THE RENOVATED AREA.

K. EXISTING PA SYSTEM SPEAKERS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. MAINTAIN, SECURE AND PROTECT CABING DURING CONSTRUCTION. THE SAME PA SYSTEM SPEAKERS SHALL BE RE-USED IN THE RENOVATED AREA.

L. DRAWINGS DO NOT REPRESENT ALL EXISTING FIRE ALARM DEVICES. INITIATING AND NOTIFICATION DEVICES NOT SHOWN ON THE DRAWINGS ARE EXISTING TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF THE EXISTING DEVICES NOT SHOWN.

M. FIELD TEST OPERABILITY OF FIRE ALARM SYSTEM AND REPLACE AS REQUIRED.

N. SURVEILLANCE CAMERAS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING AND CONDUIT BACK TO SOURCE. THE SAME SURVEILLANCE CAMERA SHALL BE RE-USED IN THE NEW WORK.



BUILDING 217 KEY PLAN

Revisions:	Date:
100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DEMOLITION PLAN, DINING ROOM

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.3

VA FORM 08-6231

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

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F. ALL ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED INCLUDING WIRING, BOXES AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

G. ALL ELECTRICAL LUMINAIRES AND LIGHTING CONTROLS SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED, UNLESS OTHERWISE NOTED.

H. NORMAL POWER AND LIFE SAFETY LIGHTING BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

I. EMERGENCY EXIT SIGN BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

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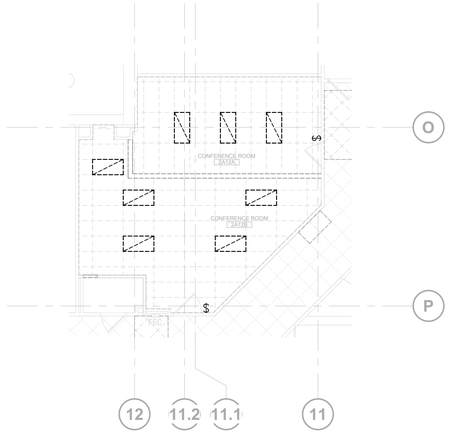
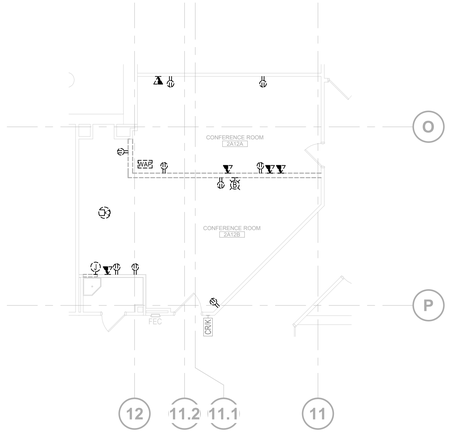
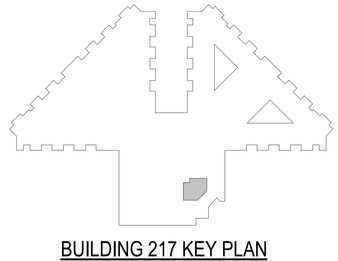


N 2 **ELECTRICAL - LIGHTING DEMOLITION PLAN, SECOND FLOOR CONFERANCE ROOMS**
1/8" = 1'-0"



N 1 **ELECTRICAL - POWER DEMOLITION PLAN, SECOND FLOOR CONFERANCE ROOMS**
1/8" = 1'-0"



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DEMOLITION PLAN, SECOND FLOOR CONFERANCE ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

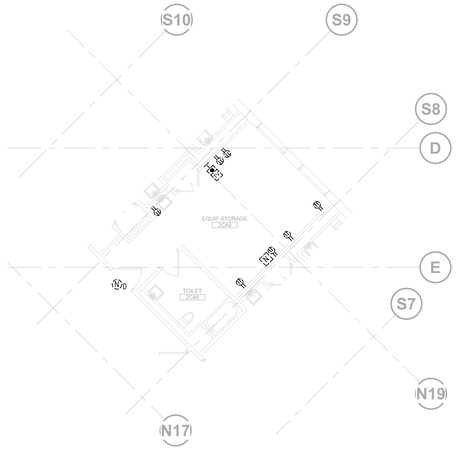
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.4

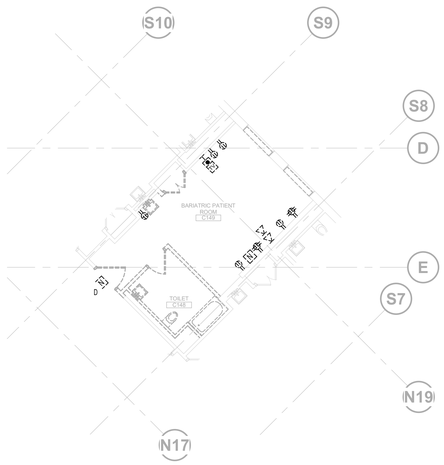
VA FORM 08-6231



N

5 **ELECTRICAL - POWER DEMOLITION PLAN, BARIATRIC PATIENT ROOM (LOCATION 9)**

1/8" = 1'-0"



N

2 **ELECTRICAL - POWER DEMOLITION PLAN, BARIATRIC PATIENT ROOM (LOCATION 7)**

1/8" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

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F. ALL ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED INCLUDING WIRING, BOXES AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

G. ALL ELECTRICAL LUMINAIRES AND LIGHTING CONTROLS SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED, UNLESS OTHERWISE NOTED.

H. NORMAL POWER AND LIFE SAFETY LIGHTING BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

I. EMERGENCY EXIT SIGN BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

J. WIRELESS ACCESS POINTS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING BACK TO SOURCE. THE SAME WIRELESS ACCESS POINTS SHALL BE RE-USED IN THE RENOVATED AREA.

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M. FIELD TEST OPERABILITY OF FIRE ALARM SYSTEM AND REPLACE AS REQUIRED.

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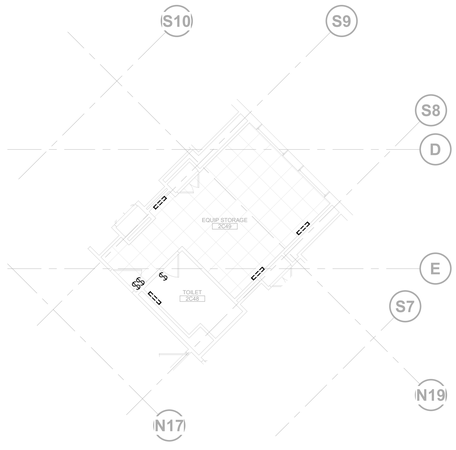
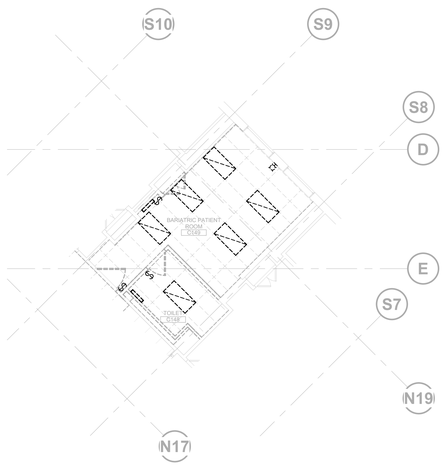


N

7 **ELECTRICAL - LIGHTING DEMOLITION PLAN, BARIATRIC PATIENT ROOM (LOCATION 9)**

1/8" = 1'-0"



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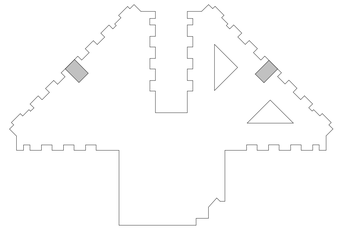
1 **ELECTRICAL - LIGHTING DEMOLITION PLAN, BARIATRIC PATIENT ROOM (LOCATION 7)**

1/8" = 1'-0"



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DEMOLITION PLAN, BARIATRIC ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

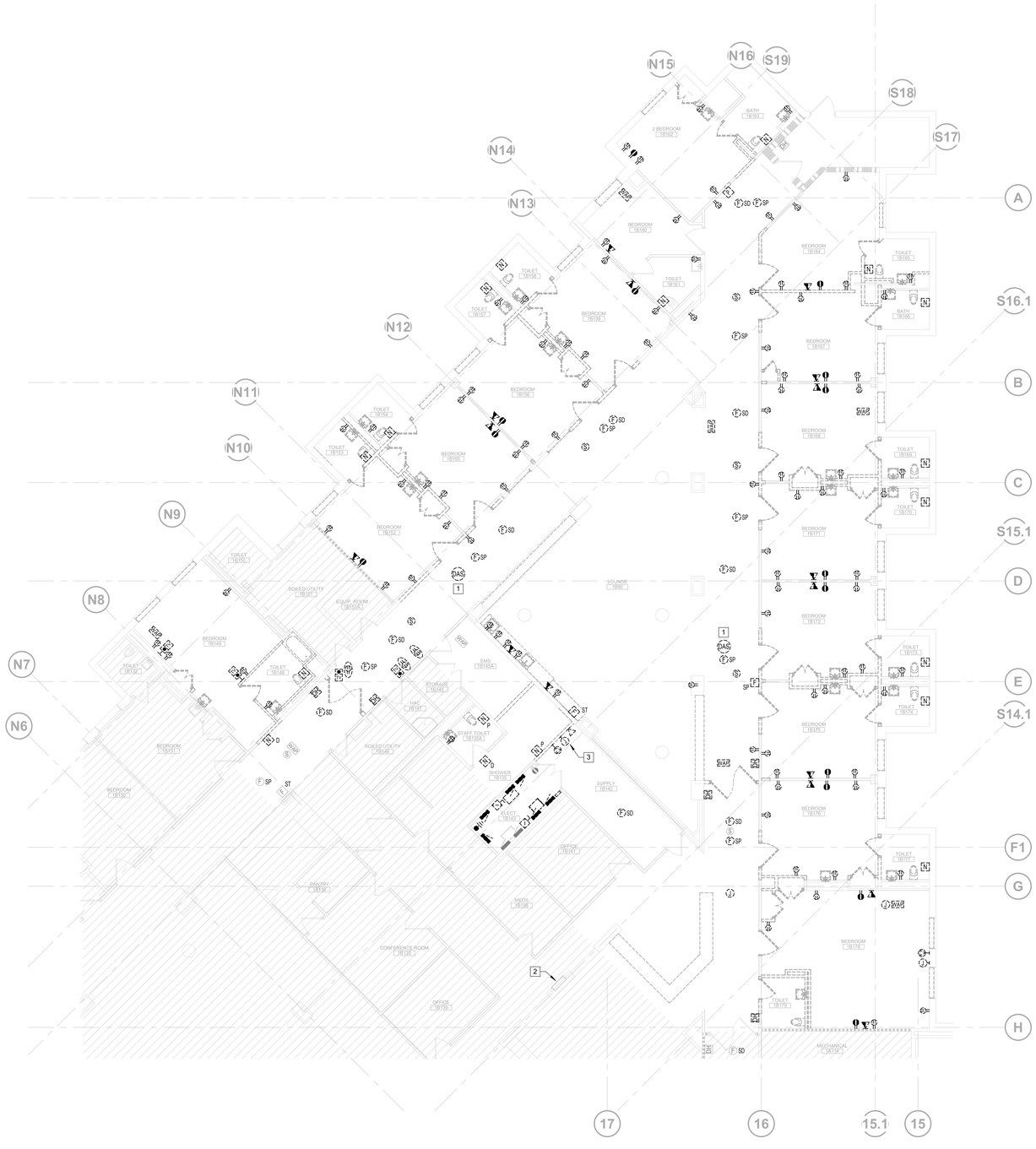
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.5

VA FORM 08-6231



N

1 **ELECTRICAL - POWER DEMOLITION PLAN, DEMENTIA UNIT (LOCATION 5)**

1/8" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

C. LOW VOLTAGE DEVICES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO SOURCE.

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E. EXISTING CIRCUITS OUTSIDE OF SCOPE OF WORK SHALL BE EXISTING TO REMAIN. IF CIRCUITS ARE AFFECTED FROM NEW CONSTRUCTION, CONTRACTOR SHALL CIRCUIT TRACE AS NECESSARY. CIRCUITS FOR THESE INTERRUPTED CIRCUITS SHALL BE NEW WIRING. ALL CIRCUITS THAT ARE SHARED WITH DEVICES OUTSIDE THE AREA OF DEMOLITION SHALL REMAIN POWERED AND SHALL BE RECONNECTED TO THE EXISTING ASSOCIATED PANEL FEEDING THESE ITEMS. CONTINUITY SHALL BE CHECKED FOR ALL LIGHTING, OUTLETS, COMM/DATA OUTLETS, FIRE ALARM DEVICES IN THE AREAS NOT BEING REMODELED TO ENSURE PROPER FUNCTIONING.

F. ALL ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED INCLUDING WIRING, BOXES AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

G. ALL ELECTRICAL LUMINAIRES AND LIGHTING CONTROLS SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED, UNLESS OTHERWISE NOTED.

H. NORMAL POWER AND LIFE SAFETY LIGHTING BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

I. EMERGENCY EXIT SIGN BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

J. WIRELESS ACCESS POINTS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING BACK TO SOURCE. THE SAME WIRELESS ACCESS POINTS SHALL BE RE-USED IN THE RENOVATED AREA.

K. EXISTING PA SYSTEM SPEAKERS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. MAINTAIN, SECURE AND PROTECT CABING DURING CONSTRUCTION. THE SAME PA SYSTEM SPEAKERS SHALL BE RE-USED IN THE RENOVATED AREA.

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M. FIELD TEST OPERABILITY OF FIRE ALARM SYSTEM AND REPLACE AS REQUIRED.

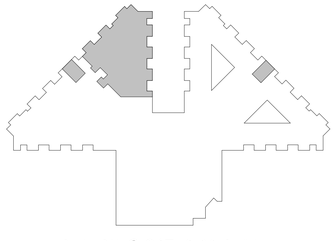
N. SURVEILLANCE CAMERAS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING AND CONDUIT BACK TO SOURCE. THE SAME SURVEILLANCE CAMERA SHALL BE RE-USED IN THE NEW WORK.

ELECTRICAL DEMOLITION KEY NOTES

1 OMNI ANTENNA SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. TO BE RE-INSTALLED IN NEW CEILING. CABLING EXISTING TO REMAIN.

2 EXISTING NURSE CALL SYSTEM HEAD-END UNIT SERVING THE FIRST FLOOR "B" WING.

3 WANDER MANAGEMENT SYSTEM AND FIRE ALARM INTERFACE TO BE TEMPORARILY REMOVED AND RELOCATED. REFER TO NEW WORK FOR NEW LOCATION.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER DEMOLITION PLAN, DEMENTIA UNIT

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

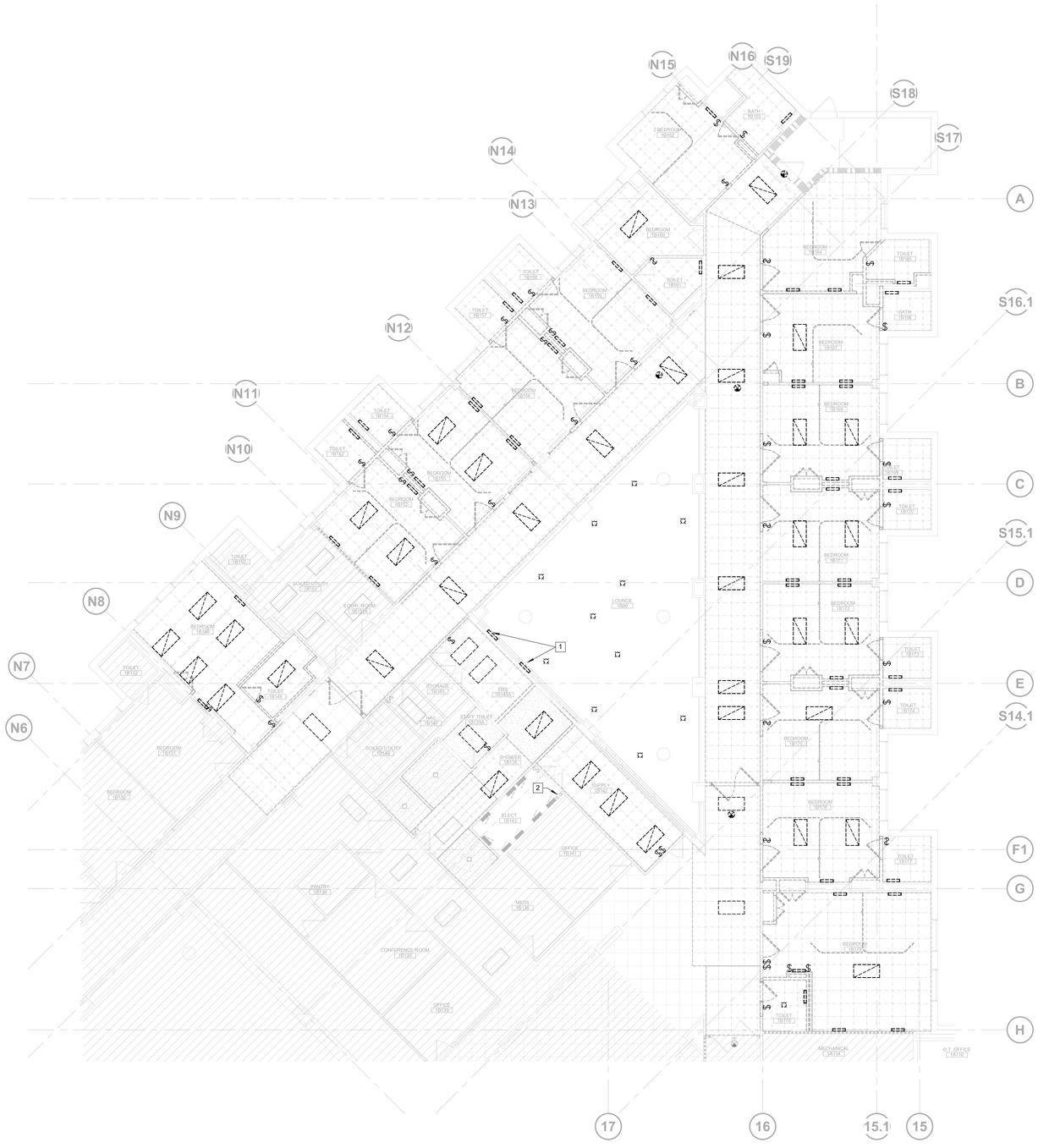
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.6

VA FORM 08-6231



N

1 **ELECTRICAL - LIGHTING DEMOLITION PLAN, DEMENTIA UNIT (LOCATION 5)**

1/8" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

C. LOW VOLTAGE DEVICES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO SOURCE.

D. REMOVE ALL ABANDONED WIRING AND CONDUIT BACK TO SOURCE.

E. EXISTING CIRCUITS OUTSIDE OF SCOPE OF WORK SHALL BE EXISTING TO REMAIN. IF CIRCUITS ARE AFFECTED FROM NEW CONSTRUCTION, CONTRACTOR SHALL CIRCUIT TRACE AS NECESSARY. CIRCUITS FOR THESE INTERRUPTED CIRCUITS SHALL BE NEW WIRING. ALL CIRCUITS THAT ARE SHARED WITH DEVICES OUTSIDE THE AREA OF DEMOLITION SHALL REMAIN POWERED AND SHALL BE RECONNECTED TO THE EXISTING ASSOCIATED PANEL FEEDING THESE ITEMS. CONTINUITY SHALL BE CHECKED FOR ALL LIGHTING, OUTLETS, COMM/DATA OUTLETS, FIRE ALARM DEVICES IN THE AREAS NOT BEING REMODELED TO ENSURE PROPER FUNCTIONING.

F. ALL ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED INCLUDING WIRING, BOXES AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

G. ALL ELECTRICAL LUMINAIRES AND LIGHTING CONTROLS SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED, UNLESS OTHERWISE NOTED.

H. NORMAL POWER AND LIFE SAFETY LIGHTING BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

I. EMERGENCY EXIT SIGN BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

J. WIRELESS ACCESS POINTS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING BACK TO SOURCE. THE SAME WIRELESS ACCESS POINTS SHALL BE RE-USED IN THE RENOVATED AREA.

K. EXISTING PA SYSTEM SPEAKERS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. MAINTAIN, SECURE AND PROTECT CABING DURING CONSTRUCTION. THE SAME PA SYSTEM SPEAKERS SHALL BE RE-USED IN THE RENOVATED AREA.

L. DRAWINGS DO NOT REPRESENT ALL EXISTING FIRE ALARM DEVICES. INITIATING AND NOTIFICATION DEVICES NOT SHOWN ON THE DRAWINGS ARE EXISTING TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF THE EXISTING DEVICES NOT SHOWN.

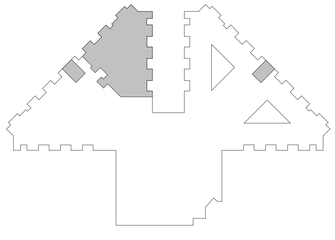
M. FIELD TEST OPERABILITY OF FIRE ALARM SYSTEM AND REPLACE AS REQUIRED.

N. SURVEILLANCE CAMERAS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLING AND CONDUIT BACK TO SOURCE. THE SAME SURVEILLANCE CAMERA SHALL BE RE-USED IN THE NEW WORK.

ELECTRICAL DEMOLITION KEY NOTES

1 REMOVE LIGHT FIXTURES IN THIS AREA PRIOR TO PLUMBING DEMOLITION WORK.

2 REMOVE AND DEMOLISH TIMECLOCK AND CONTACTORS BACK TO SOURCE. EXISTING TO REMIAN CIRCUITS SHALL BE WIRED TO NEW LIGHTING CONTROL PANEL. THOSE EXISTING TO REMAIN BRANCH CIRCUIT TIMESETTINGS SHALL BE TRANSFERED OVER TO THE NEW CONTROL PANEL.



BUILDING 217 KEY PLAN

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - LIGHTING DEMOLITION PLAN, DEMENTIA UNIT

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

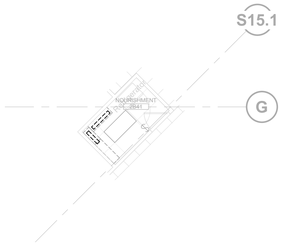
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.7

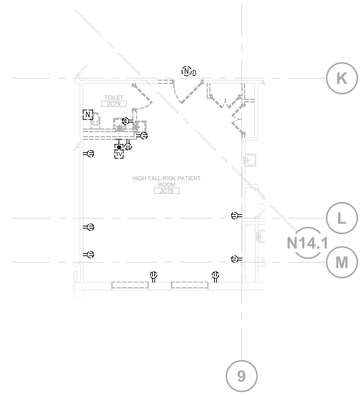
VA FORM 08-6231



N

9 **ELECTRICAL - LIGHTING DEMOLITION PLAN, EQUIPMENT STORAGE**

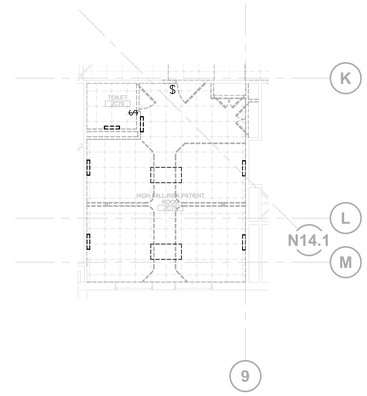
1/8" = 1'-0"



N

8 **ELECTRICAL - POWER DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 14)**

1/8" = 1'-0"



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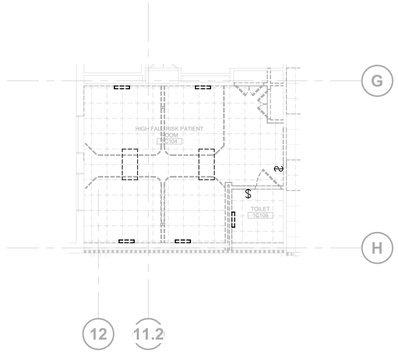
7 **ELECTRICAL - LIGHTING DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 14)**

1/8" = 1'-0"



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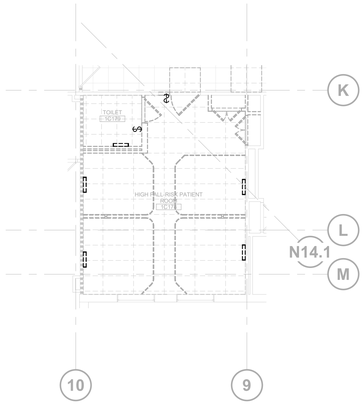
6 **ELECTRICAL - LIGHTING DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 11)**

1/8" = 1'-0"



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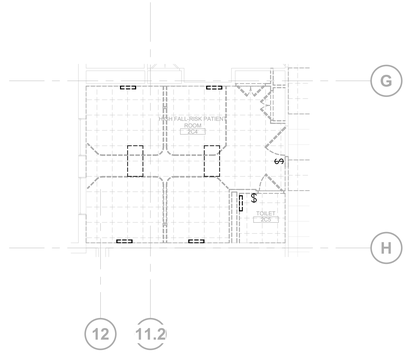
5 **ELECTRICAL - LIGHTING DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 12)**

1/8" = 1'-0"



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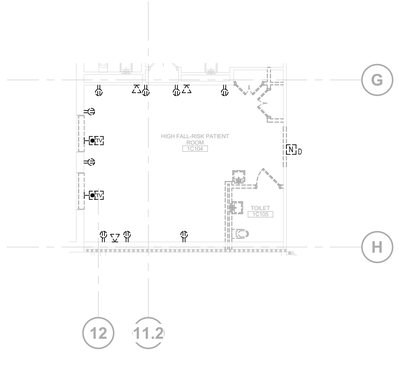
4 **ELECTRICAL - LIGHTING DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 13)**

1/8" = 1'-0"



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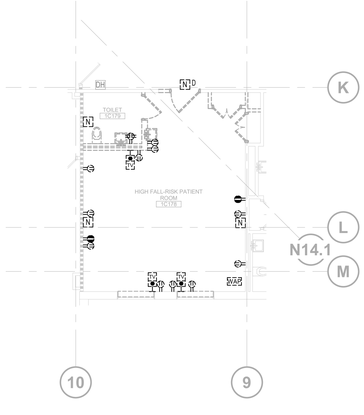
3 **ELECTRICAL - POWER DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 11)**

1/8" = 1'-0"



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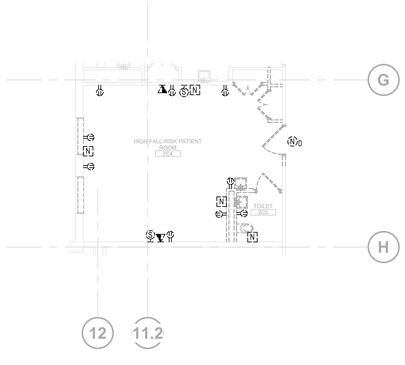
2 **ELECTRICAL - POWER DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 12)**

1/8" = 1'-0"



N

1 **ELECTRICAL - POWER DEMOLITION PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 13)**

1/8" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

C. LOW VOLTAGE DEVICES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO SOURCE.

D. REMOVE ALL ABANDONED WIRING AND CONDUIT BACK TO SOURCE.

E. EXISTING CIRCUITS OUTSIDE OF SCOPE OF WORK SHALL BE EXISTING TO REMAIN. IF CIRCUITS ARE AFFECTED FROM NEW CONSTRUCTION, CONTRACTOR SHALL CIRCUIT TRACE AS NECESSARY. CIRCUITS FOR THESE INTERRUPTED CIRCUITS SHALL BE NEW WIRING. ALL CIRCUITS THAT ARE SHARED WITH DEVICES OUTSIDE THE AREA OF DEMOLITION SHALL REMAIN POWERED AND SHALL BE RECONNECTED TO THE EXISTING ASSOCIATED PANEL FEEDING THESE ITEMS. CONTINUITY SHALL BE CHECKED FOR ALL LIGHTING, OUTLETS, COMM/DATA OUTLETS, FIRE ALARM DEVICES IN THE AREAS NOT BEING REMODELED TO ENSURE PROPER FUNCTIONING.

F. ALL ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED INCLUDING WIRING, BOXES AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

G. ALL ELECTRICAL LUMINAIRES AND LIGHTING CONTROLS SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED, UNLESS OTHERWISE NOTED.

H. NORMAL POWER AND LIFE SAFETY LIGHTING BRANCH CIRCUITS SHALL BE RE-USED IN THE RENOVATED AREA.

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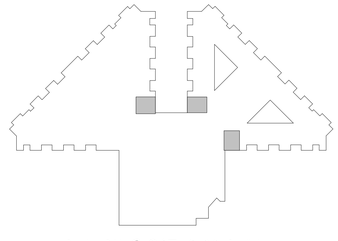

BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
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STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DEMOLITION PLAN, HIGH FALL-RISK PATIEN ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

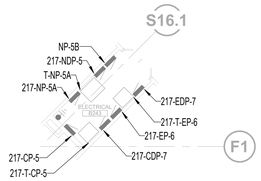
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.8

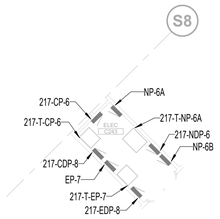
VA FORM 08-6231



N

6 ELECTRICAL - POWER DEMOLITION PLAN, ELECTRICAL ROOM 2B WING

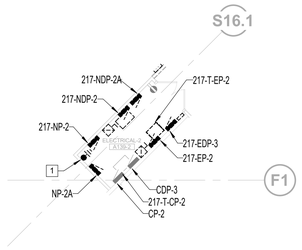
1/8" = 1'-0"



N

5 ELECTRICAL - POWER DEMOLITION PLAN, ELECTRICAL ROOM 2C WING

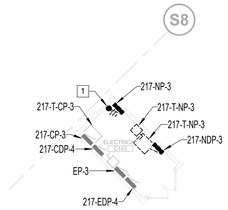
1/8" = 1'-0"



N

4 ELECTRICAL - POWER DEMOLITION PLAN, ELECTRICAL ROOM 1B WING

1/8" = 1'-0"



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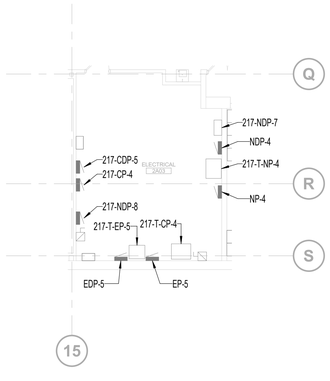
3 ELECTRICAL - POWER DEMOLITION PLAN, ELECTRICAL ROOM 1C WING

1/8" = 1'-0"



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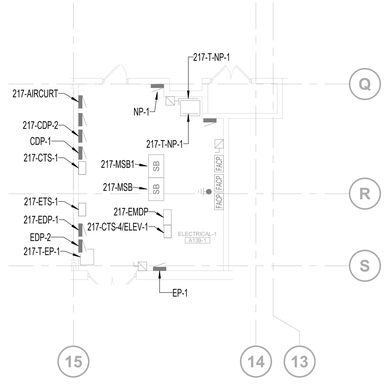
2 ELECTRICAL - POWER DEMOLITION PLAN, ELECTRICAL ROOM 2A WING

1/8" = 1'-0"



N

1 ELECTRICAL - POWER DEMOLITION PLAN, MAIN ELECTRICAL ROOM

1/8" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES

A. REMOVE VAV POWER SUPPLIES NO LONGER IN USE.

B. RECEPTACLES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO PANEL SOURCE. UPDATE TYPEWRITTEN DIRECTORY TO REFLECT CHANGES.

C. LOW VOLTAGE DEVICES NOTED AS DEMOLISH, REMOVE CONDUITS, PULL BOXES AND CONDUCTORS BACK TO SOURCE.

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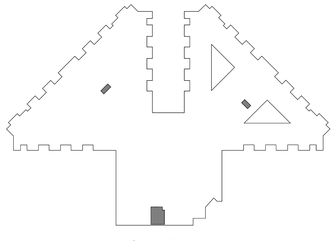
ELECTRICAL DEMOLITION KEY NOTES

1 REMOVE AND DEMOLISH GROUND BUS BAR. EXTEND GROUNDING CONDUCTORS AND CONDUIT TO NEW LOCATION.



BUILDING 217 KEY PLAN

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER DEMOLITION PLAN, ELECTRICAL ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

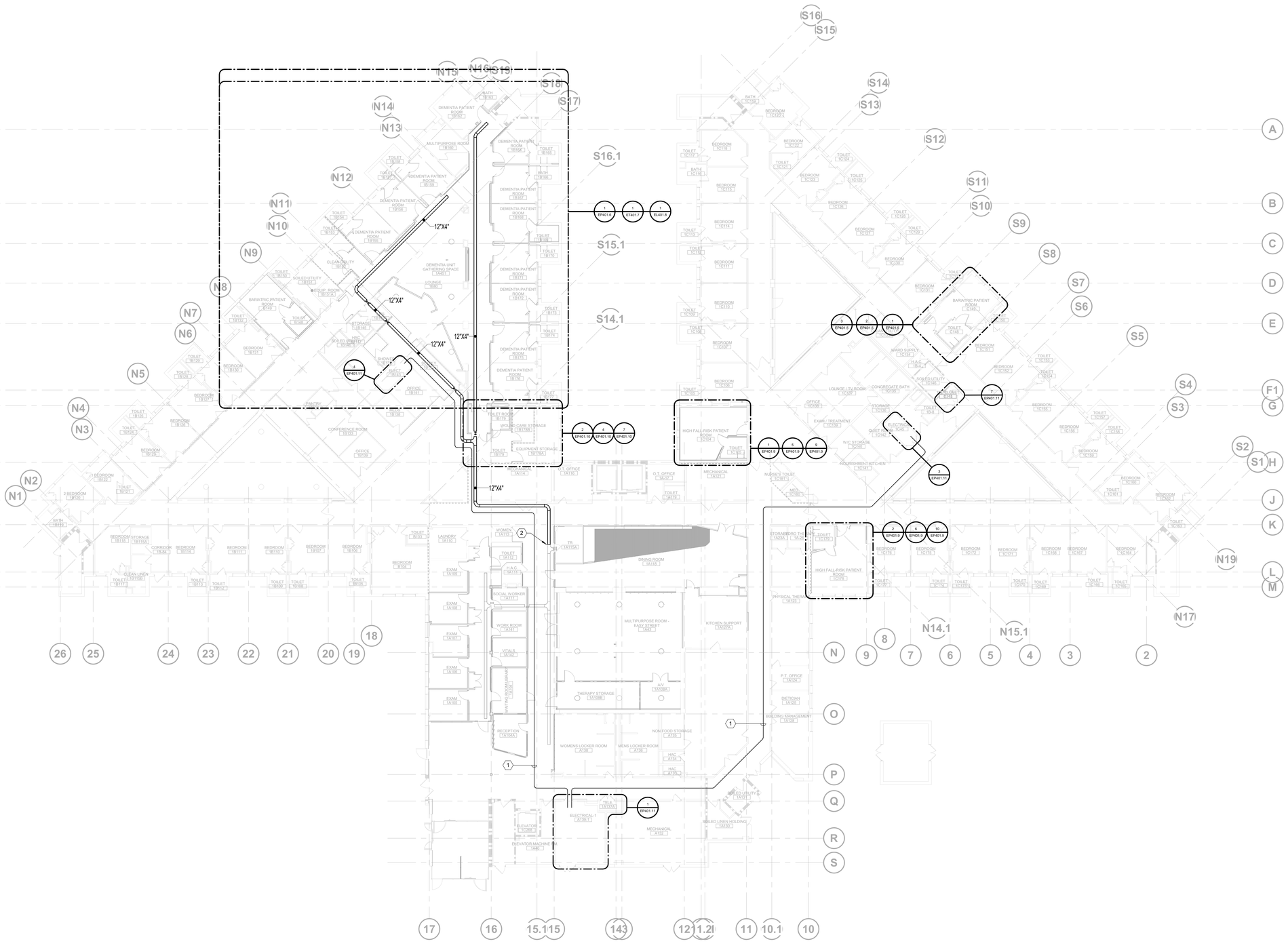
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EPD401.10

VA FORM 08-6231



ELECTRICAL POWER GENERAL NOTES

A. EXISTING GRAPHIC CENTER SHOWING ELECTRONIC FLOOR PLAN IN ROOM 1D-01. CONTRACTOR TO UPDATE ELECTRONIC FLOOR PLAN THAT WILL CORRECTLY SHOW ALL MRI AREA FIRE ALARM DEVICES WITHIN PROJECT SCOPE.

B. WIRE MESH CABLE TRAY SIZE AS SHOWN ON PLAN.

C. TELECOMMUNICATIONS CABLE TRAY SHALL BE PLACED AT LOWEST POSITION WITHIN CEILING SPACE FOR EASY AND FREQUENT ACCESS.

D. TELECOMMUNICATIONS CABLE TRAY SHALL BE INSTALLED IN A LINEAR FASHION, EITHER PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURE. JOGS, SHIFTS OR DIRECTIONAL CHANGES THAT ARE NOT 90 DEGREES SHALL BE AVOIDED WHENEVER POSSIBLE.

E. TELECOMMUNICATIONS CABLE TRAY SHALL BE INSTALLED ON A CONTINUOUS HORIZONTAL PLANE. CHANGES IN ELEVATION SHALL BE AVOIDED WHENEVER POSSIBLE.

F. OTHER UTILITIES SHALL NOT BE ALLOWED TO BE PLACED BELOW TELECOMMUNICATIONS CABLE TRAY.

G. OTHER UTILITIES, CONDUIT OR CABLING SHALL NOT BE PERMITTED TO PASS THRU THE TELECOMMUNICATIONS CABLE TRAY, EITHER VERTICALLY OR HORIZONTALLY.

H. TELECOMMUNICATIONS CABLE TRAY SHALL NOT BE CUT IN SUCH A WAY THAT IT WEAKENS THE STRUCTURAL INTEGRITY OF THE CABLE TRAY.

I. WHERE PERMISSIBLE, BOTTOM OF TELECOMMUNICATIONS CABLE TRAY SHALL BE PLACED 6" ABOVE TOP OF CEILING T-BAR GRID AND SUSPENDED BAFFLES, BUT UNDER NO CIRCUMSTANCES SHALL SEPARATION BE LESS THAN 3 INCHES.

J. ONE SIDE OF TELECOMMUNICATIONS CABLE TRAY SHALL HAVE A MINIMUM OF 12 INCHES OF HORIZONTAL CLEARANCE TO ALLOW FOR ACCESS TO CABLES FOR MOVES, ADDS AND CHANGES.

K. FROM THE TOP OF THE TELECOMMUNICATIONS CABLE TRAY THERE SHALL BE A MINIMUM OF 12 INCHES OF VERTICAL CLEARANCE TO ALLOW FOR ACCESS TO CABLES FOR MOVE, ADDS AND CHANGES. WHERE THE DISTANCES DOES NOT EXCEED 6'-0", VERTICAL CLEARANCE MAY BE REDUCED TO 6 INCHES. WHERE DISTANCE DOES NOT EXCEED 3'-0", VERTICAL CLEARANCE MAY BE REDUCED TO 3 INCHES. IF VERTICAL CLEARANCE DOES NOT MEET THE ABOVE CRITERIA, TELECOMMUNICATIONS CABLE TRAY SHALL BE TRANSITIONED INTO CONDUIT WHICH EXTENDS A MINIMUM OF 3 INCHES PAST OBSTRUCTION. CONDUIT CROSS-SECTIONAL CALCULATED FILL AREA SHALL BE EQUAL TO OR GREATER THAN THE CROSS-SECTIONAL CALCULATED FILL AREA OF THE TELECOMMUNICATIONS CABLE TRAY.

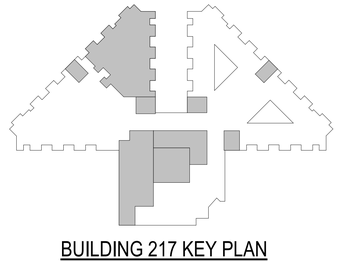
L. WHERE OTHER DISCIPLINES EQUIPMENT ARE IN CLOSE PROXIMITY WITH TELECOMMUNICATIONS CABLE TRAY OR CONDUIT AND REQUIRE MAINTENANCE, COORDINATE TELECOMMUNICATIONS PATHWAY WITH OTHER DISCIPLINES TO ALLOW FOR MAINTENANCE CLEARANCE AND ROUTING OF TELECOMMUNICATIONS PATHWAYS.

M. CABLE TRAY SHALL NOT INTERFERE WITH VAV MAINTENANCE CLEARANCES. COORDINATE WITH MECHANICAL CONTRACTOR.

ELECTRICAL POWER KEY NOTES

1 APPROXIMATE ROUTING OF PANEL FEEDER(S). CONTRACTOR TO FIELD VERIFY. CONTRACTOR TO ROUTE NEW FEEDER ALONG THE SAME PATH OF THE DEMOLISHED FEEDERS AT THEIR DISCRETION

2 HALFTONE CABLE TRAY IS EXISTING TO REMAIN. CONNECT THE NEW CABLE TRAY TO THE EXISTING.



BUILDING 217 KEY PLAN

N

1 **ELECTRICAL - OVERALL PLAN, FIRST FLOOR**

1/16" = 1'-0"

100% CONSTRUCTION DOCUMENTS	06/10/2026
ADDENDUM #2	06/10/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - OVERALL PLAN, FIRST FLOOR

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

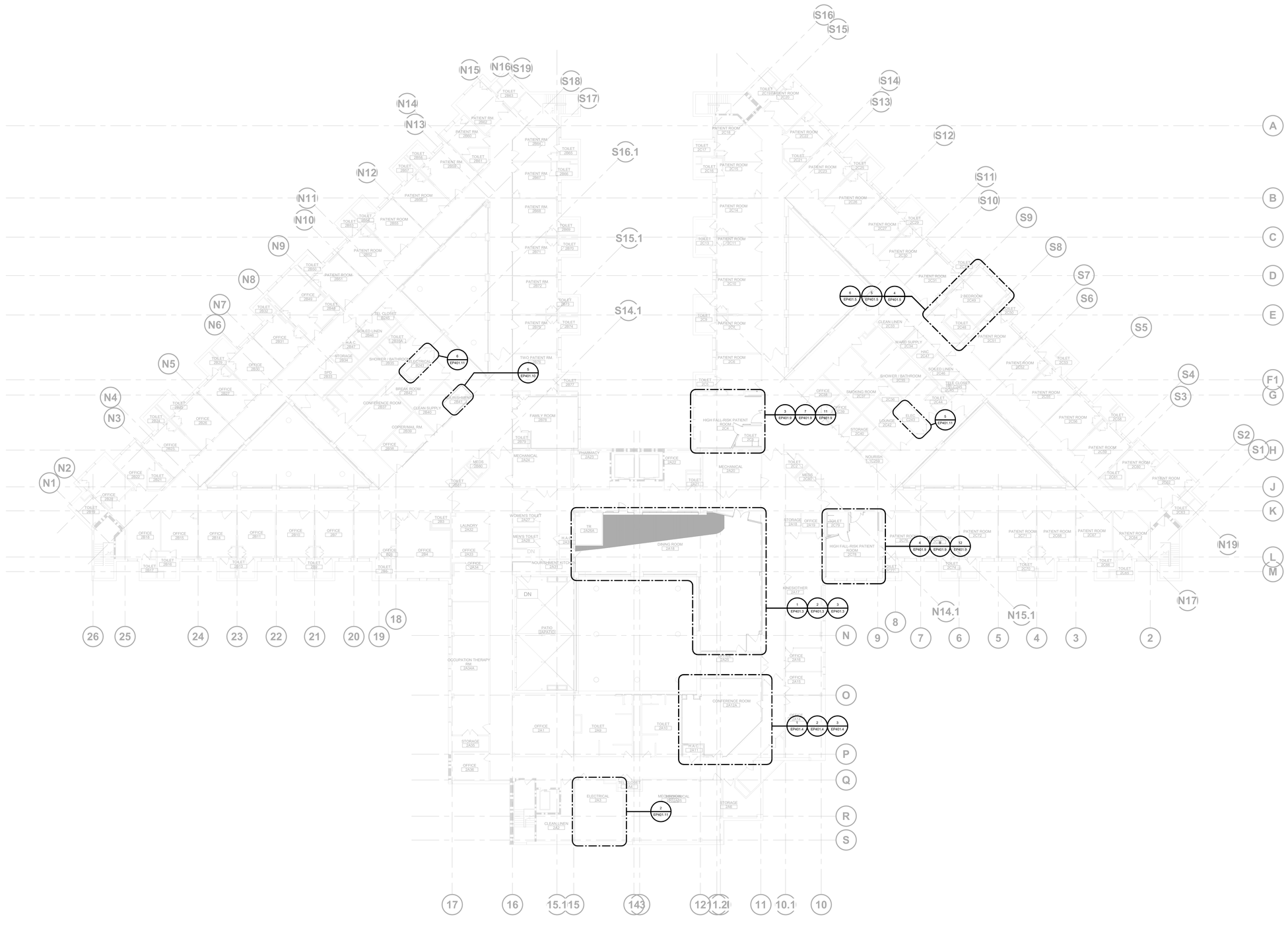
Building Number: 217

Drawing Number: EP101

VA FORM 08-6231

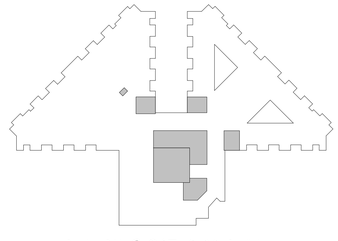
ELECTRICAL POWER GENERAL NOTES

A. EXISTING GRAPHIC CENTER SHOWING ELECTRONIC FLOOR PLAN IN ROOM 1D-01. CONTRACTOR TO UPDATE ELECTRONIC FLOOR PLAN THAT WILL CORRECTLY SHOW ALL MRI AREA FIRE ALARM DEVICES WITHIN PROJECT SCOPE.



N 1 **ELECTRICAL - OVERALL PLAN, SECOND FLOOR**

1/16" = 1'-0"



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - OVERALL PLAN, SECOND FLOOR

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

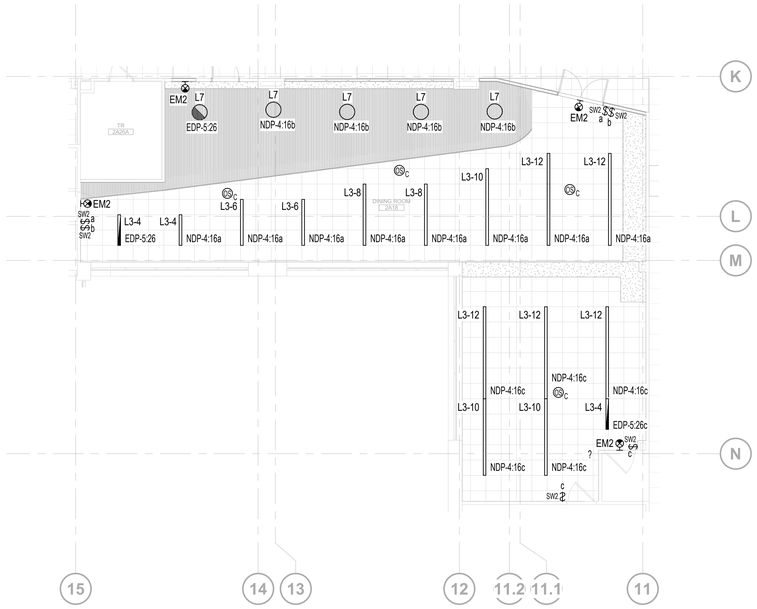
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP102

VA FORM 08-6231

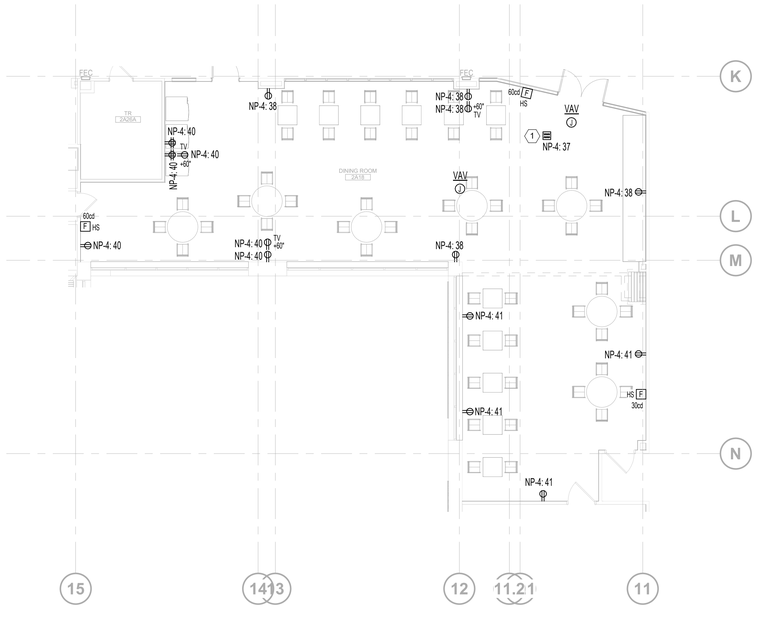


N 3 **ELECTRICAL - LIGHTING PLAN, DINING ROOM (LOCATION 4)**

1/8" = 1'-0"

N 2 **ELECTRICAL - TELECOM PLAN, DINING ROOM (LOCATION 4)**

1/8" = 1'-0"



N 1 **ELECTRICAL - POWER PLAN, DINING ROOM (LOCATION 4)**

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

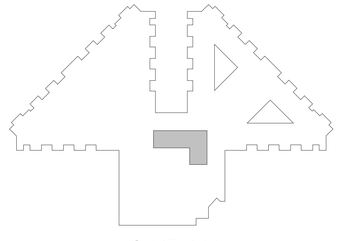
J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

ELECTRICAL KEY NOTES

1 PROVIDE 120V-24V STEPDOWN TRANSFORMER FOR VAV BOXES. 120V INPUT FROM PANEL, 24V OUTPUT TO VAV BOXES. BASIS OF DESIGN IS FUNCTIONAL DEVICES, INC MODEL NUMBER PSH500AB10-LVC OR APPROVED EQUAL. COORDINATE LOW VOLTAGE CONDUIT RUNS WITH TEMPERATURE CONTROLS CONTRACTOR.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PLANS, DINING ROOM 2A26

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

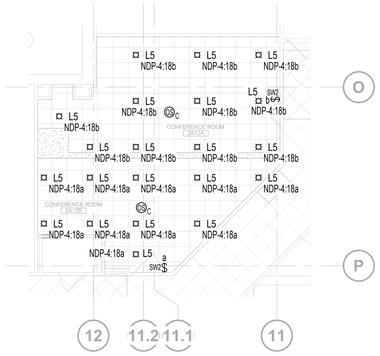
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

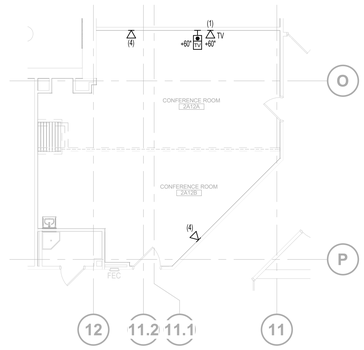
Drawing Number: EP401.3

VA FORM 08-6231



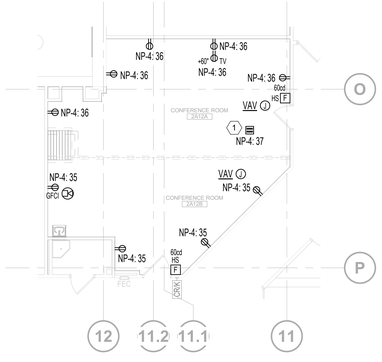
N 3 **ELECTRICAL - LIGHTING PLAN, SECOND FLOOR CONFERANCE ROOMS**

1/8" = 1'-0"



N 2 **ELECTRICAL - TELECOM PLAN, SECOND FLOOR CONFERENCE ROOMS**

1/8" = 1'-0"



N 1 **ELECTRICAL - POWER PLAN, SECOND FLOOR CONFERANCE ROOMS**

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

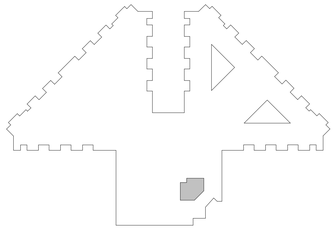
J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

ELECTRICAL KEY NOTES

1 PROVIDE 120V-24V STEPDOWN TRANSFORMER FOR VAV BOXES. 120V INPUT FROM PANEL, 24V OUTPUT TO VAV BOXES. BASIS OF DESIGN IS FUNCTIONAL DEVICES, INC MODEL NUMBER PSH500AB10-LVC OR APPROVED EQUAL. COORDINATE LOW VOLTAGE CONDUIT RUNS WITH TEMPERATURE CONTROLS CONTRACTOR.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PLANS, LIBRARY

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Project Number: 578-26-016

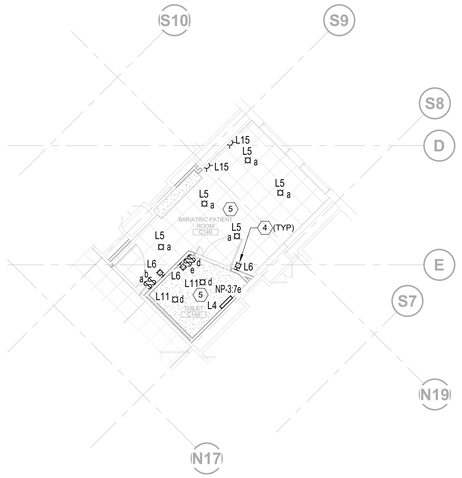
Building Number: 217

Location: EDWARD J. HINES JR. VAMC

Drawing Number: EP401.4

Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

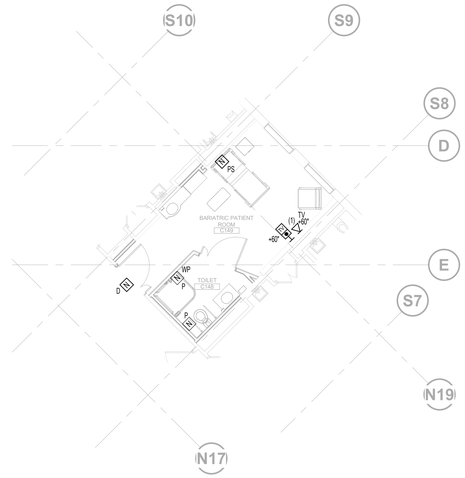
VA FORM 08-6231



N

3 ELECTRICAL - LIGHTING PLAN, BARIATRIC PATIENT ROOM (LOCATION 7)

1/8" = 1'-0"



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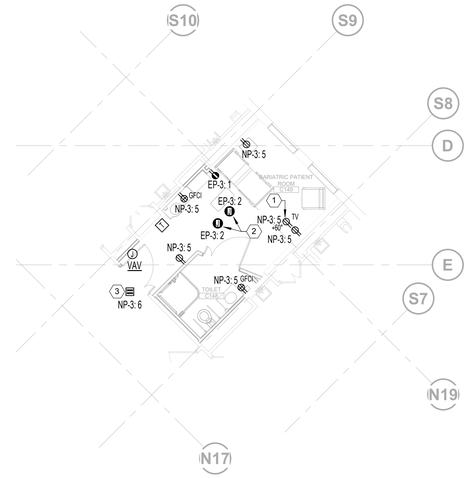
2 ELECTRICAL - TELECOM PLAN, BARIATRIC PATIENT ROOM (LOCATION 7)

1/8" = 1'-0"



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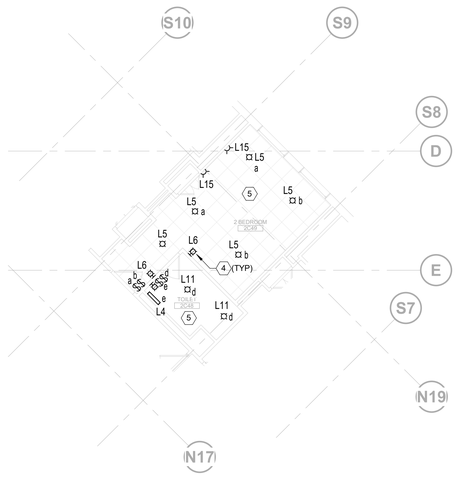
1 ELECTRICAL - POWER PLAN, BARIATRIC PATIENT ROOM (LOCATION 7)

1/8" = 1'-0"



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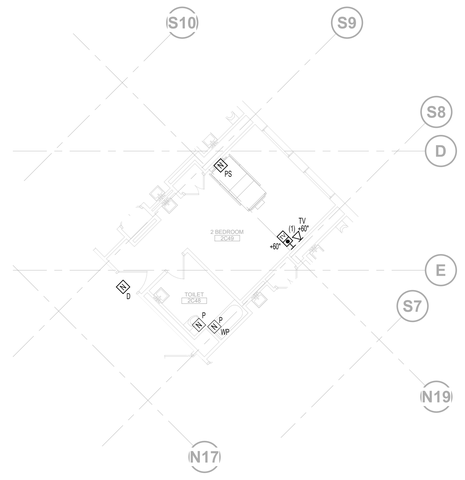
6 ELECTRICAL - LIGHTING PLAN, BARIATRIC PATIENT ROOM (LOCATION 9)

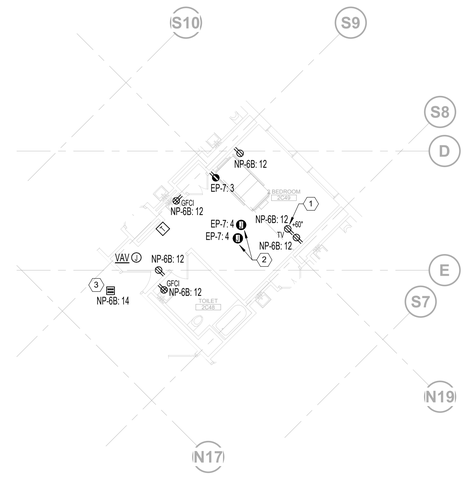
1/8" = 1'-0"



N

5 ELECTRICAL - TELECOM PLAN, BARIATRIC PATIENT ROOM (LOCATION 9)

1/8" = 1'-0"



N

4 ELECTRICAL - POWER PLAN, BARIATRIC PATIENT ROOM (LOCATION 9)

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

ELECTRICAL KEY NOTES

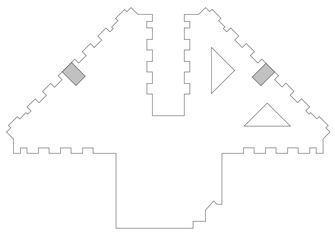
1 PROVIDE TELEVISION OUTLET ENCLOSURE HUBBELL #NSAV62M OR APPROVED EQUAL. MOUNT TELEVISION RECEPTACLE IN TELEVISION BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.

2 PATIENT LIFT OUTLET.

3 PROVIDE 120V-24V STEPDOWN TRANSFORMER FOR VAV BOXES. 120V INPUT FROM PANEL, 24V OUTPUT TO VAV BOXES. BASIS OF DESIGN IS FUNCTIONAL DEVICES, INC.MODEL NUMBER PSH500AB10-LVC OR APPROVED EQUAL. COORDINATE LOW VOLTAGE CONDUIT RUNS WITH TEMPERATURE CONTROLS CONTRACTOR.

4 WIRE TO EXISTING NIGHT LIGHT BRANCH CIRCUIT SERVING THIS AREA. TYPICAL OF THIS TYPE.

5 WIRE ROOM LIGHTING TO EXISTING LIGHTING BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
Revisions:	Date:

CONSULTANT

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PLANS, BARIATRIC ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

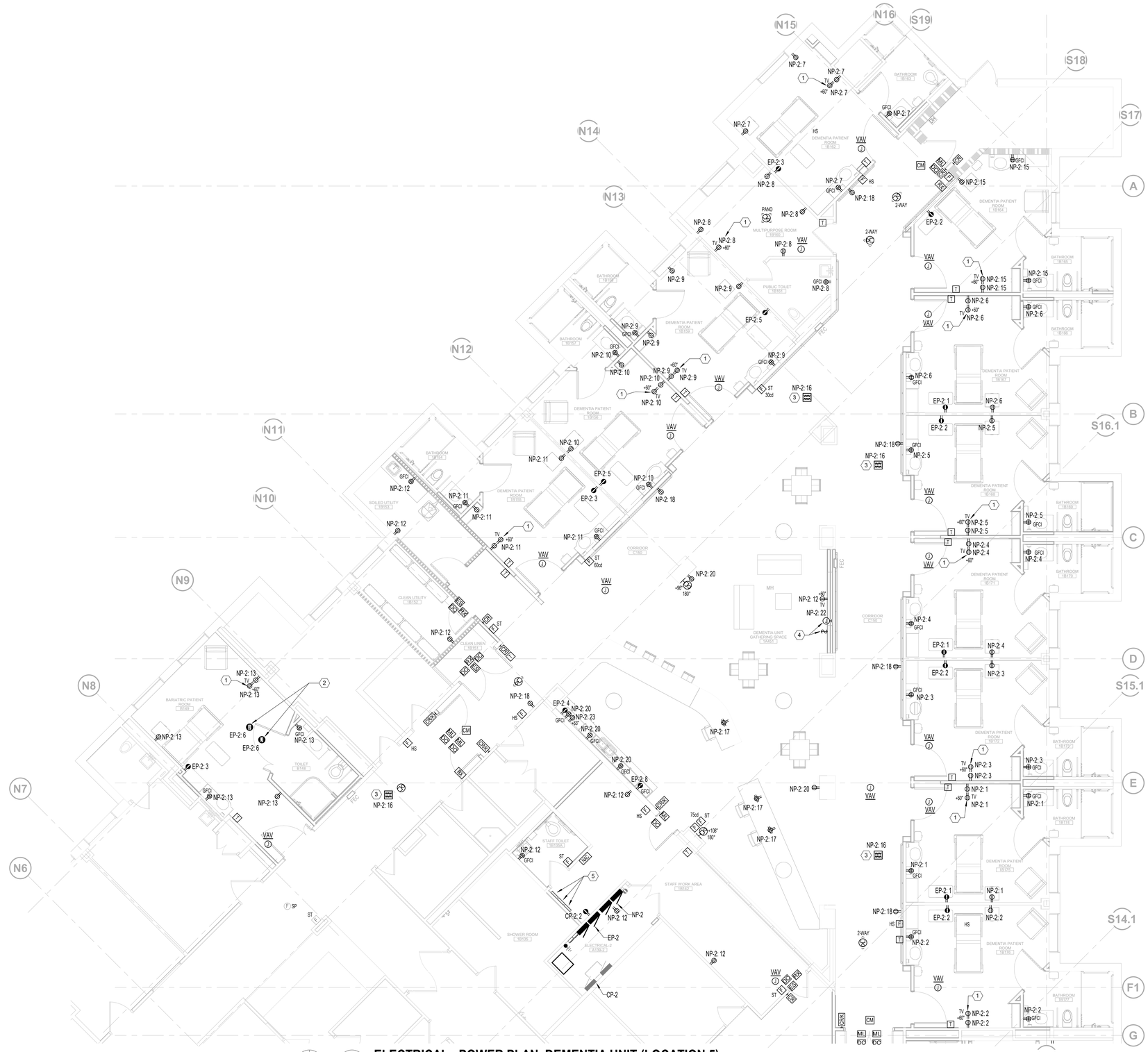
Drawn: JC

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP401.5

VA FORM 08-6231



N 1 **ELECTRICAL - POWER PLAN, DEMENTIA UNIT (LOCATION 5)**

3/16" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

ELECTRICAL KEY NOTES

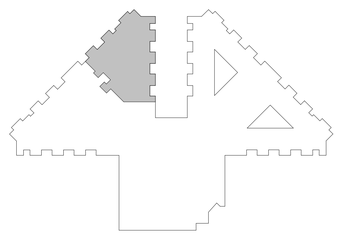
1 PROVIDE TELEVISION OUTLET ENCLOSURE HUBBELL #NSAV62M OR APPROVED EQUAL. MOUNT TELEVISION RECEPTACLE IN TELEVISION BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.

2 PATIENT LIFT OUTLET.

3 PROVIDE 120V-24V STEPDOWN TRANSFORMER FOR VAV BOXES. 120V INPUT FROM PANEL. 24V OUTPUT TO VAV BOXES. BASIS OF DESIGN IS FUNCTIONAL DEVICES, INC MODEL NUMBER PSH500AB10-LVC OR APPROVED EQUAL. COORDINATE LOW VOLTAGE CONDUIT RUNS WITH TEMPERATURE CONTROLS CONTRACTOR.

4 ELECTRIC FIREPLACE AND SWITCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5 PROVIDE ACCESS CONTROLS PANELS AND POWER SUPPLIES AS REQUIRED TO SERVE THE "B" WING.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
ADDENDUM #2	06/10/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Northbrook, IL 60062
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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER PLAN, DEMENTIA UNIT

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP401.6

VA FORM 08-6231

N

1 **ELECTRICAL - TELECOM PLAN, DEMENTIA UNIT (LOCATION 5)**

3/16" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

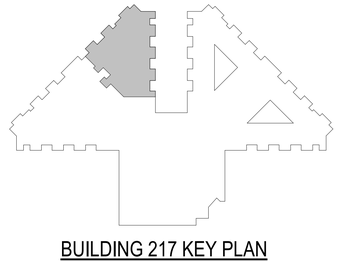
ELECTRICAL KEY NOTES

1 RE-USE PREVIOUSLY SALVAGED WIRELESS ACCESS POINT AND INSTALL WITH-IN 2FT OF THE ORIGINAL LOCATION. WIRE TO THE NEAREST TR CLOSET SERVING THE AREA.

2 PREVIOUSLY SALVAGED OMNI ANTENNA TO BE RE-INSTALLED IN NEW CEILING. UTILIZE EXISITNG CABLING.

3 PROVIDE NEW NURSE CALL SYSTEM HEAD-END CABINET TO SERVE THE FIRST FLOOR "B" WING. PROVIDE SUFFICIENT CAPACITY FOR EXISTING TO REMIAN DEVICES TO BE REWIRED TO THIS CABINET IN THE FUTURE AND FUTURE CAPACITY. REFER TO DIVISION 27 52 23 SPECIFICATIONS. DAISY CHAIN TO NURSE CALL RISER.

4 RELOCATE EXISTING WANDERING MANAGEMENT SYSTEM TO THIS NEW LOCATION. EXTEND CONDUIT AND WIRING AS REQUIRED.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - TELECOM PLAN, DEMENTIA UNIT

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

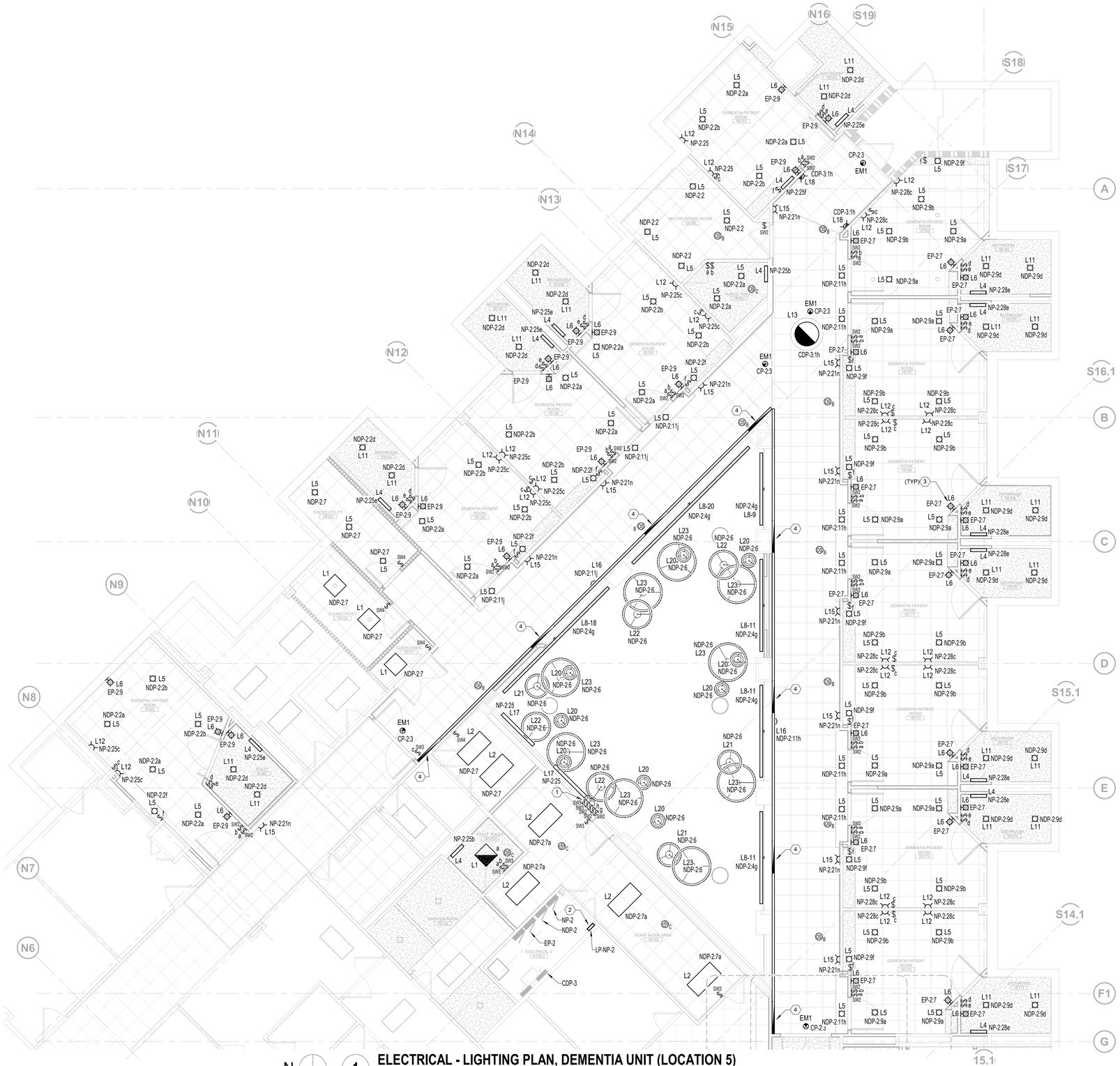
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: ET401.7

VA FORM 08-6231



N

1 **ELECTRICAL - LIGHTING PLAN, DEMENTIA UNIT (LOCATION 5)**

3/16" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

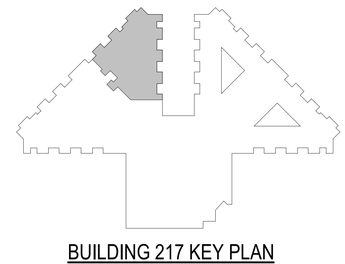
ELECTRICAL KEY NOTES

1 LOCAL OVERRIDE SWITCHES FOR TIMED LIGHTING AS INDICATED BY SWITCH ID.

2 PROVIDE WATTSTOPPER LMCP8-277-8HDR OR APPROVED EQUAL LIGHTING CONTROL PANEL. WIRE EXISTING TO REMAIN BRANCH CIRCUITS FROM THE PREVIOSLY DEMOLISHED TIMECLOCK TO THIS LIGHTING CONTROL PANEL. THE SAME TIMING SHALL BE PROGRAMMED FOR THOSE EXISTING TO REMAIN. PROVIDE EXTERIOR RATED PHOTOCELL AT EACH CARDINAL DIRECTION FACING WALL OF THE DEMENTIA WING. TOTAL OF (2) PHOTOCELLS.

3 NIGHT LIGHT TO BE CONTROLLED BY LIGHTING CONTROL PANEL SERVING THE AREA. TYPICAL OF THIS TYPE.

4 WIRE EMERGENCY SECTION OF CONTINOUS LUMINAIRE TO LIFE SAFETY BRANCH CIRCUIT SERVING THIS AREA.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - LIGHTING PLAN, DEMENTIA UNIT

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

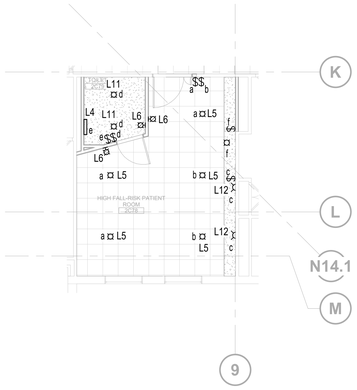
Drawn: BX

Project Number: 578-26-016

Building Number: 217

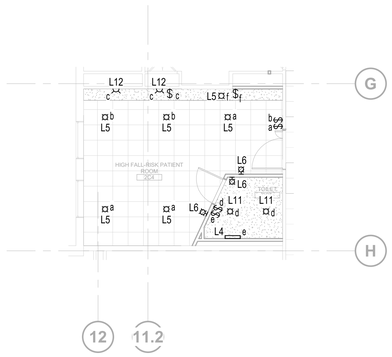
Drawing Number: EL401.8

VA FORM 08-6231



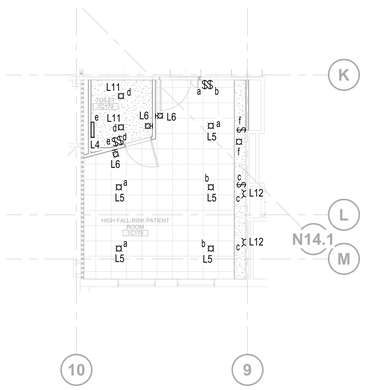
12 ELECTRICAL - LIGHTING PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 14)

1/8" = 1'-0"



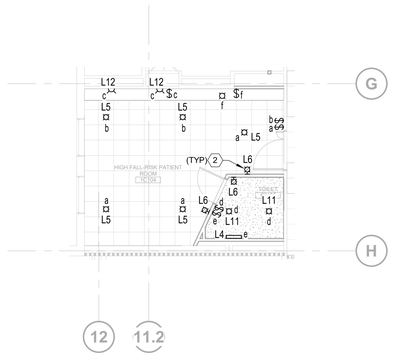
11 ELECTRICAL - LIGHTING PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 13)

1/8" = 1'-0"



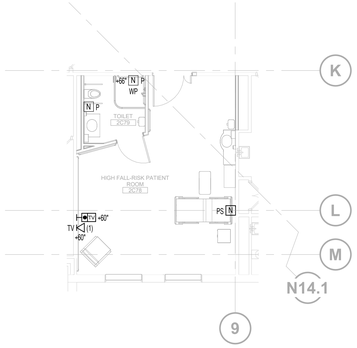
10 ELECTRICAL - LIGHTING PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 12)

1/8" = 1'-0"



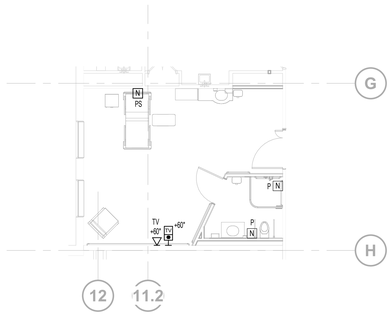
9 ELECTRICAL - LIGHTING PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 11)

1/8" = 1'-0"



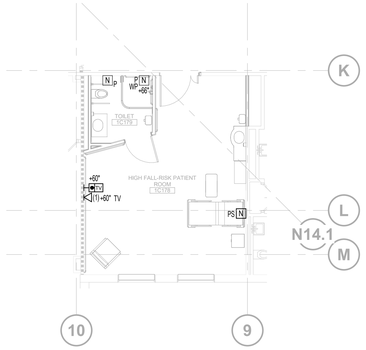
8 ELECTRICAL - TELECOM PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 14)

1/8" = 1'-0"



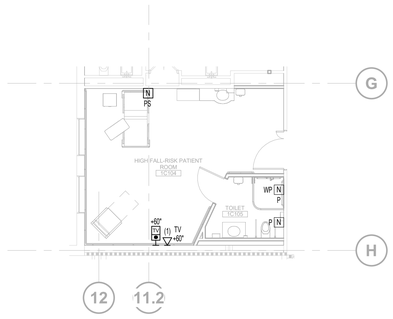
7 ELECTRICAL - TELECOM PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 13)

1/8" = 1'-0"



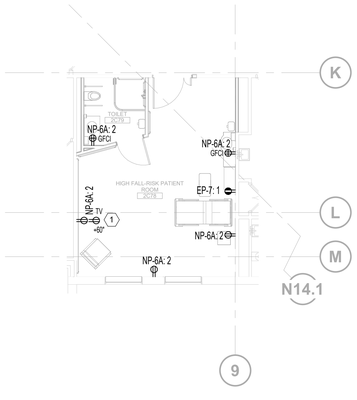
6 ELECTRICAL - TELECOM PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 12)

1/8" = 1'-0"



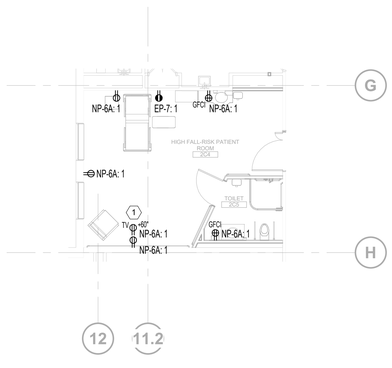
5 ELECTRICAL - TELECOM PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 11)

1/8" = 1'-0"



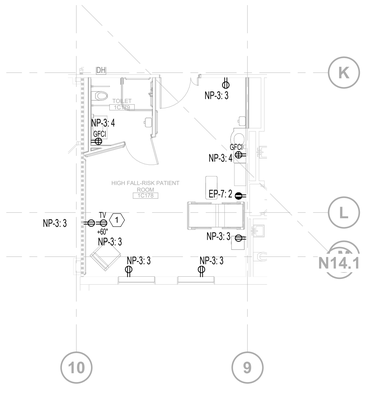
4 ELECTRICAL - POWER PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 14)

1/8" = 1'-0"



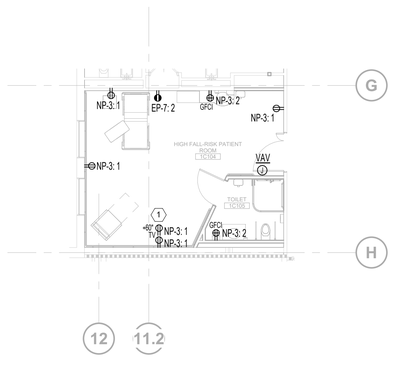
3 ELECTRICAL - POWER PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 13)

1/8" = 1'-0"



2 ELECTRICAL - POWER PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 12)

1/8" = 1'-0"



1 ELECTRICAL - POWER PLAN, HIGH FALL-RISK PATIENT ROOM (LOCATION 11)

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

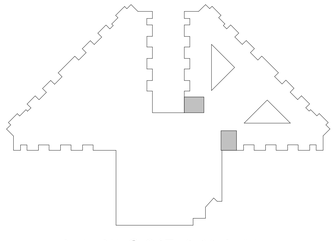
K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

ELECTRICAL KEY NOTES

1 PROVIDE TELEVISION OUTLET ENCLOSURE HUBBELL #NSAV62M OR APPROVED EQUAL. MOUNT TELEVISION RECEPTACLE IN TELEVISION BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.

2 WIRE TO EXISTING NIGHT LIGHT BRANCH CIRCUIT SERVING THIS AREA. TYPICAL OF THIS TYPE.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PLANS, HIGH FALL-RISK ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

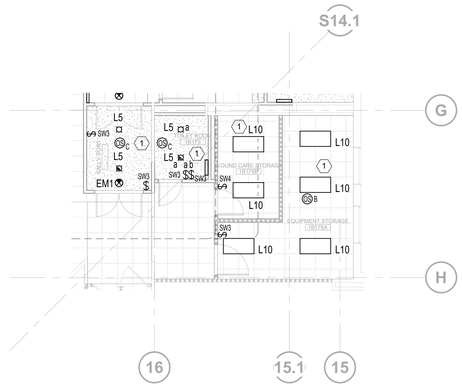
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP401.9

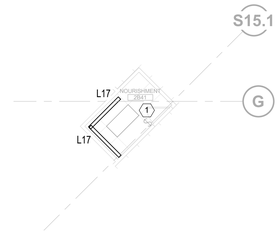
VA FORM 08-6231



N

7 ELECTRICAL - LIGHTING PLAN, EQUIPMENT STORAGE (LOCATION 19)

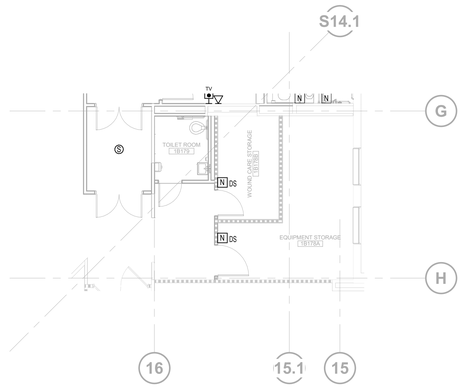
1/8" = 1'-0"



N

5 ELECTRICAL - LIGHTING PLAN, EQUIPMENT STORAGE

1/8" = 1'-0"



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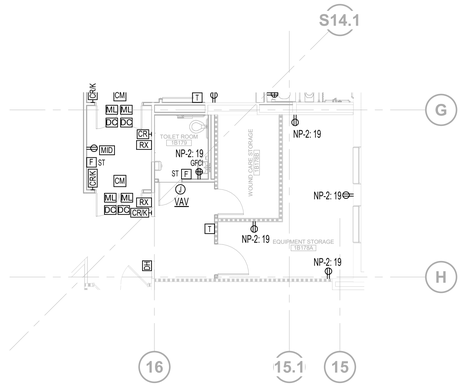
4 ELECTRICAL - TELECOM PLAN, EQUIPMENT STORAGE (LOCATION 19)

1/8" = 1'-0"



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2 ELECTRICAL - POWER PLAN, EQUIPMENT STORAGE (LOCATION 19)

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

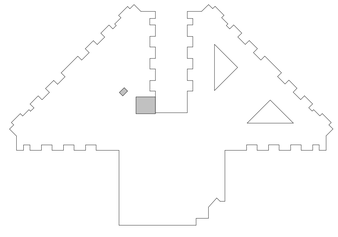
J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

ELECTRICAL KEY NOTES

1 WIRE ROOM LIGHTING TO EXISTING LIGHTING BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PLANS, EQUIPMENT STORAGE

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

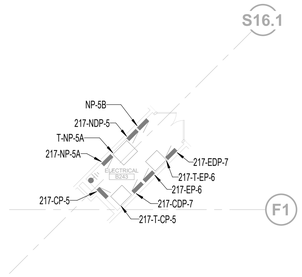
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP401.10

VA FORM 08-6231



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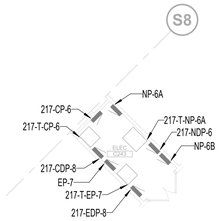
6 **ELECTRICAL - POWER PLAN, ELECTRICAL ROOM 2B WING**

1/8" = 1'-0"



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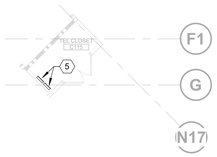
5 **ELECTRICAL - POWER PLAN, ELECTRICAL ROOM 2C WING**

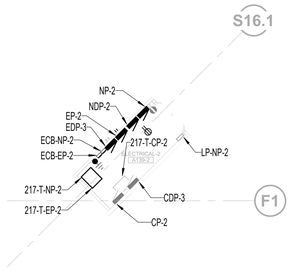
1/8" = 1'-0"



N

7 **ELECTRICAL - POWER PLAN, TELE CLO C115**

1/8" = 1'-0"



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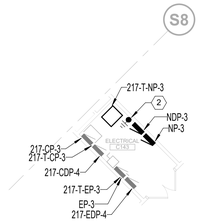
4 **ELECTRICAL POWER PLAN, ELECTRICAL ROOM 1B WING**

1/8" = 1'-0"



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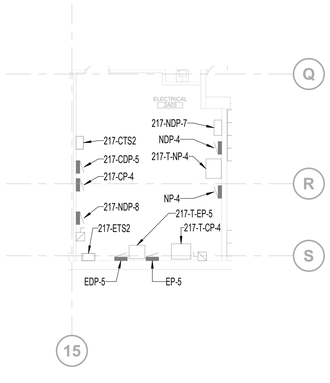
3 **ELECTRICAL - POWER PLAN, ELECTRICAL ROOM 1C45 C WING**

1/8" = 1'-0"



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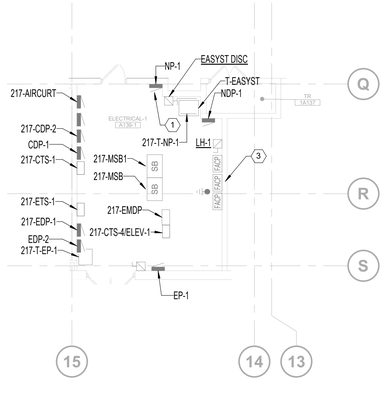
2 **ELECTRICAL - POWER PLAN, ELECTRICAL ROOM 2A WING**

1/8" = 1'-0"



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1 **ELECTRICAL - POWER PLAN, MAIN ELECTRICAL ROOM**

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

A. EQUIPMENT/DEVICES SHOWN AS HALF-TONED SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E.E FIRE ALARM, LIGHTING, ETC.

C. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBER.

D. VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURE FURNITURE LAYOUT TO ENSURE ACCESSIBILITY.

E. CONNECT ALL FIRE ALARM DEVICES BACK TO EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL SYSTEM IN ELECTRICAL ROOM 1A139.

F. CONTRACTOR SHALL ENSURE THAT FIRE ALARM NOTIFICATION ZONING MATCHES THE SMOKE COMPARTMENT EVACUATION. REFER TO FIRE PROTECTION DRAWINGS FOR SMOKE COMPARTMENT ZONING INFORMATION.

G. CONTRACTOR TO TEST FIRE ALARM ZONES FOR OPERABILITY OF DEVICES/EQUIPMENT. CONTRACOTR TO PROVIDE ALL REQUIRED ALARM MODULES, LABOR AND PROGRAMMING TO INTEGRATE THE BUIDLING FIRE ALARM SYSTEM. WIRE PER MANUFACTURER'S RECOMMENDATIONS.

H. WIRELESS ACCESS POINTS

I. UTILIZE SURVEILLANCE CAMERAS SALVAGED FROM DEMOLITION PHASE. INSTALL WITH-IN 2FT OF THE PREVIOUS LOCATION, UNLESS OTHERWISE NOTED. ORIENTATE THE SAME POSITION AS PREVIOUSLY INSTALLED AND ADJUST THE FIELD OF VIEW TO THE SATISFACTORY OF THE VA POLICE. WIRE ALL SURVEILLANCE CAMERAS TO THE NEAREST TELECOMMUNICATIONS ROOM TELECOM RACK PATCH PANEL.

J. MOUNT WIRELESS ACCESS POINTS TO NEW CEILING WITHIN 2FT OF ORIGINAL LOCATION. WIRE TO THE NEAREST TELECOMMUNICATION ROOM TELECOM RACK PATCH PANEL.

K. WIRE LIFE SAFETY LIGHTING TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

L. WIRE EXIT SIGN TO LIFE SAFETY BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.

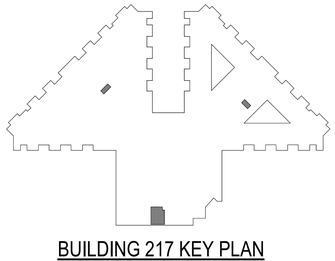
ELECTRICAL KEY NOTES

1 REMOVE LIGHT FIXTURES IN THIS AREA PRIOR TO PLUMBING DEMOLITION WORK. RE-INSTALL LIGHTING AFTER PLUMBING WORK IS COMPLETE.

2 EXTEND EXISTING GROUNDING CONDUCTORS TO NEW GROUND BUS LOCATION.

3 EXISTING FIRE ALARM CONTROL PANEL SIMPLEX 4100ES.

5 PROVIDE ACCESS CONTROLS PANELS AND POWER SUPPLIES AS REQUIRED TO SERVE THE "C" WING.



BUILDING 217 KEY PLAN

100% CONSTRUCTION DOCUMENTS	06/10/2026
ADDENDUM #2	06/10/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

CONSULTANT

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www.bancroft-ae.com
VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER PLAN, ELECTRICAL ROOMS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

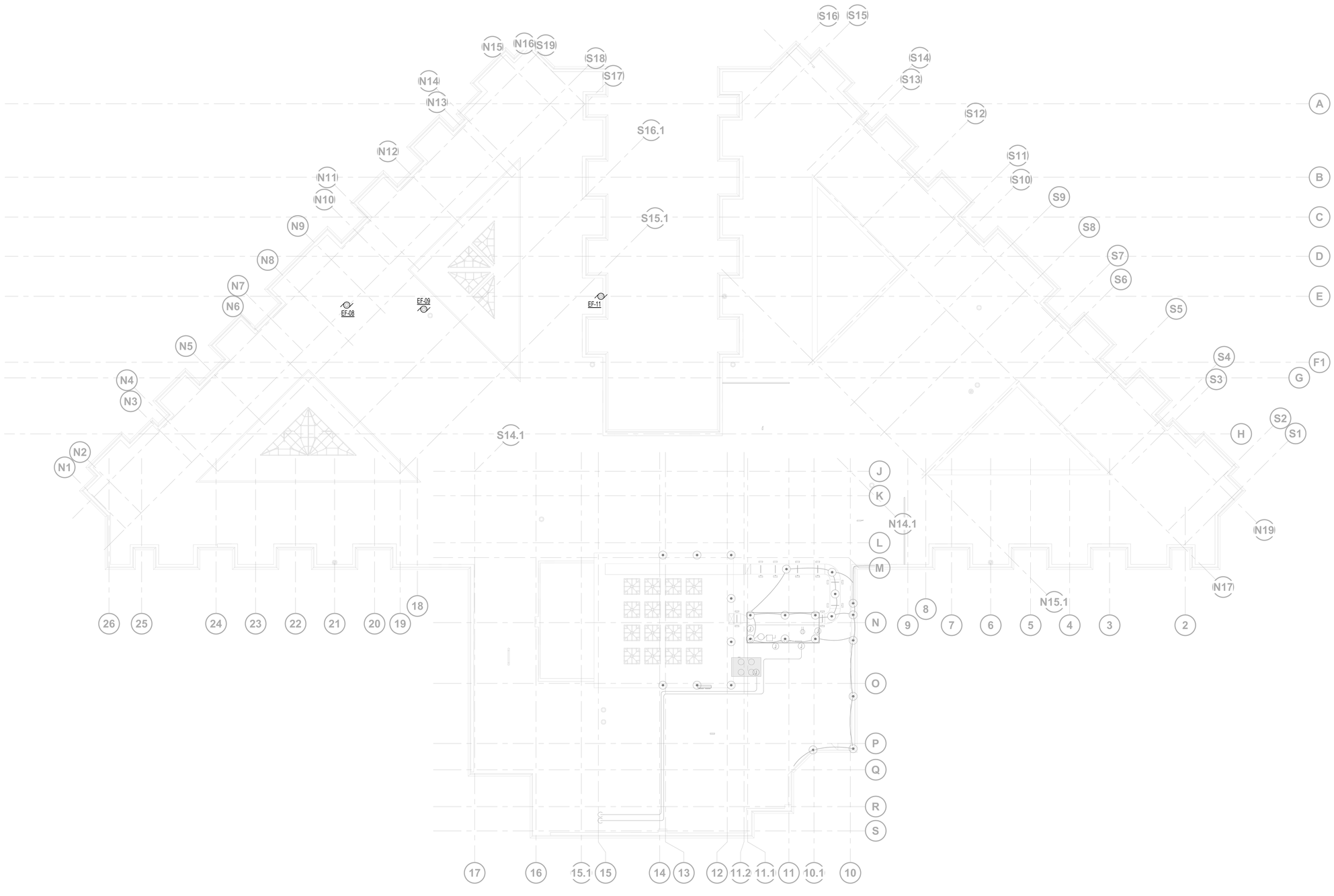
Drawn: JC

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP401.11

VA FORM 08-6231



N

1 **ELECTRICAL - POWER PLAN, ROOF**

1/16" = 1'-0"

ELECTRICAL GENERAL NOTES

A. FOR CONDUIT ROUTING TO ROOF MOUNTED EQUIPMENTS, CONTRACTOR SHALL COORDINATE ROOF PENETRATIONS WITH MECHANICAL EQUIPMENT AND PIPE CURBS, WHERE CONDUIT MUST RUN ON ROOF, IT SHALL BE RACKED WITH OTHER TRADES WHERE POSIBBLE OR PROVIDE WITH ITS OWN RACK SUPPORT SYSTEM WITH PROPER ROOF PLATES SO AS NOT TO CAUSE DAMAGE TO THE ROOF COVERING.

B. PROVIDE PHP SYSTEM DESIGN OR APPROVED EQUAL ROOF SUPPORT SYSTEM FOR ALL ROOF ROUTED CONDUIT.

C. PROVIDE A LIGHTNING PROTECTION AIR TERMINAL ON EACH ROOF MOUNTED EXHAUST FAN. TIE INTO THE EXISTING LIGHTING PROTECTION SYSTEM.

100% CONSTRUCTION DOCUMENTS	06/10/2026
ADDENDUM #2	06/10/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER PLAN, ROOF

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

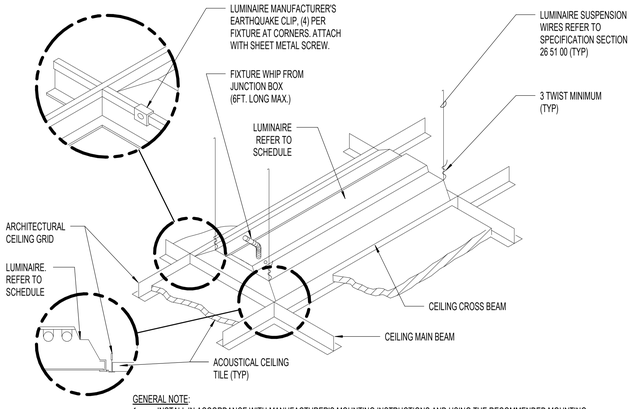
Issue Date: 06/10/2026 | Checked: WG | Drawn: JC

Project Number: 578-26-016

Building Number: 217

Drawing Number: EP401.13

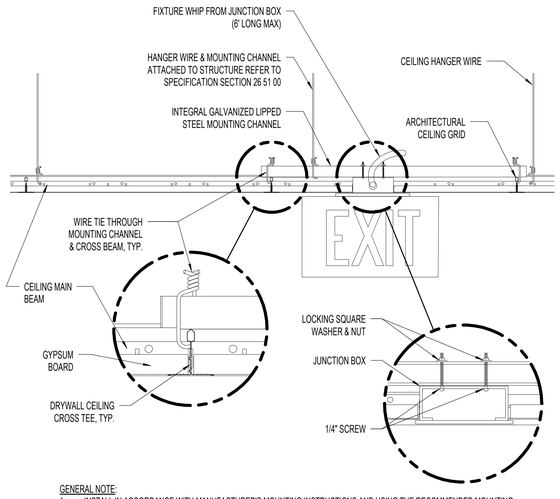
VA FORM 08-6231



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

6 LUMINAIRE MOUNTING - LAY-IN CEILING

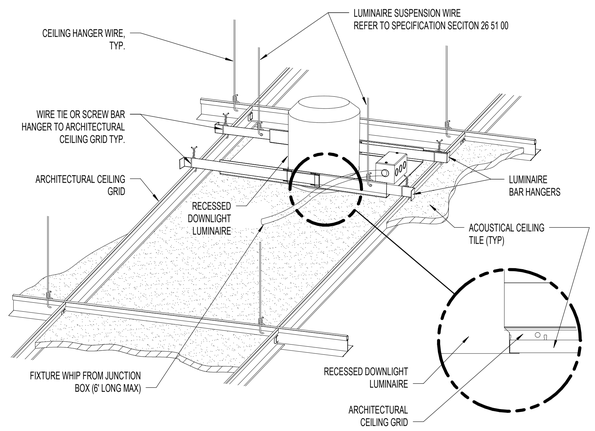
NOT TO SCALE



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

5 265100 EXIT SIGN MOUNTING - LAY-IN CEILING

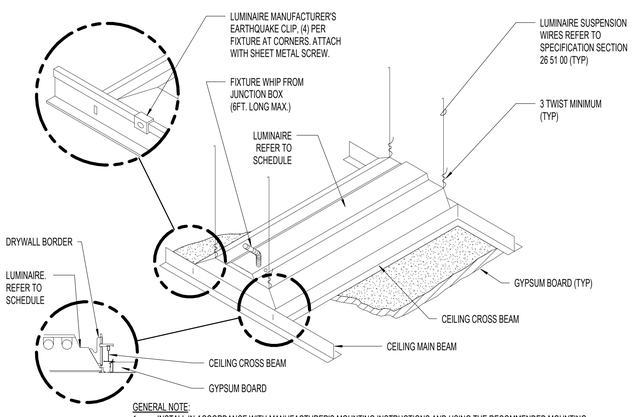
NOT TO SCALE



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

4 DOWNLIGHT MOUNTING - LAY-IN CEILING

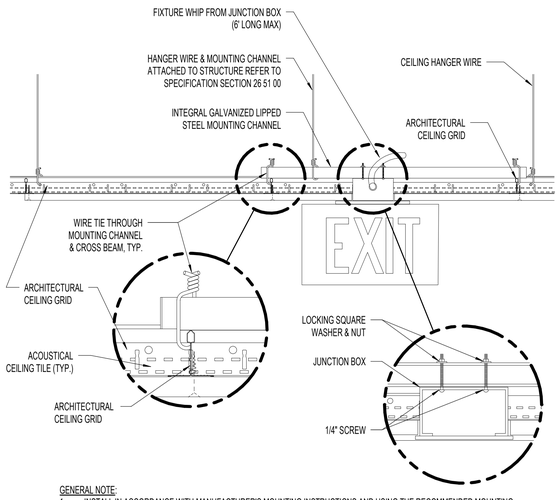
NOT TO SCALE



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

3 LUMINAIRE MOUNTING - GYBOARD CEILING

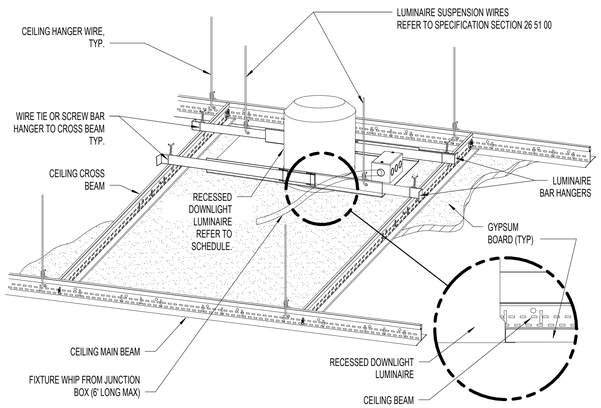
NOT TO SCALE



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

2 EXIT SIGN MOUNTING - GYPBOARD CEILING

NOT TO SCALE



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

1 DOWNLIGHT MOUNTING - GYPBOARD CEILING

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS	06/10/2026
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Revisions:	Date:

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VA CONTRACT NO.36C25223C0071
Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DETAILS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Project Number: 578-26-016

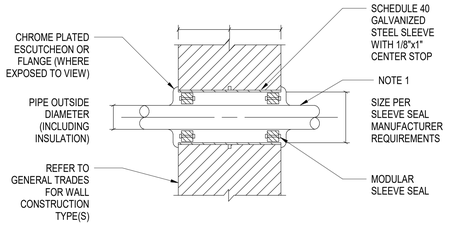
Building Number: 217

Location: EDWARD J. HINES JR. VAMC

Drawing Number: E501

Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

VA FORM 08-6231

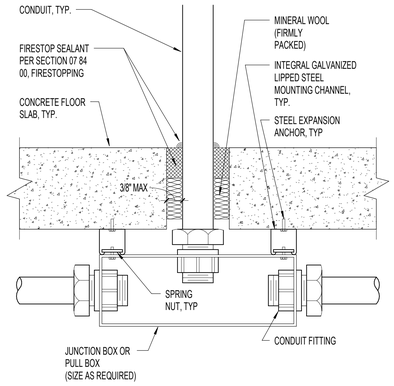


NOTE:
1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS. PROVIDE RIGID THERMAL HANGAR SHIELD INSERT AT MODULAR SLEEVE SEALS.

PIPE PENETRATION EXTERIOR WALL

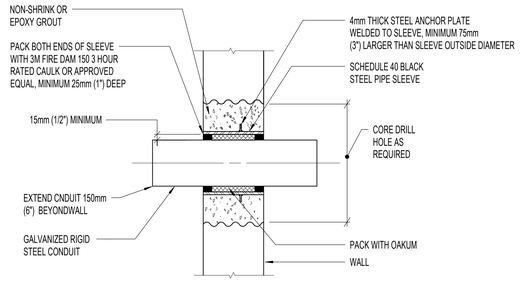
6 PIPE PENETRATION EXTERIOR WALL

NOT TO SCALE



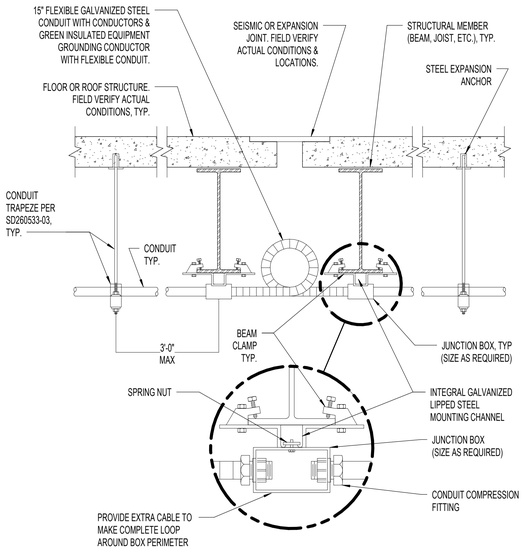
5 FLOOR SLAB PENETRATION DETAIL

NOT TO SCALE



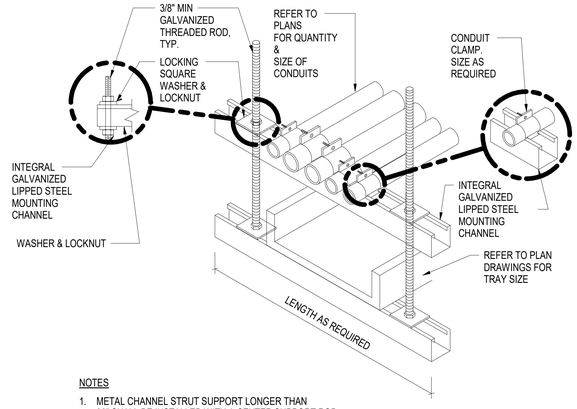
4 PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE



3 CONDUIT JOINT CROSSING DETAIL

NOT TO SCALE

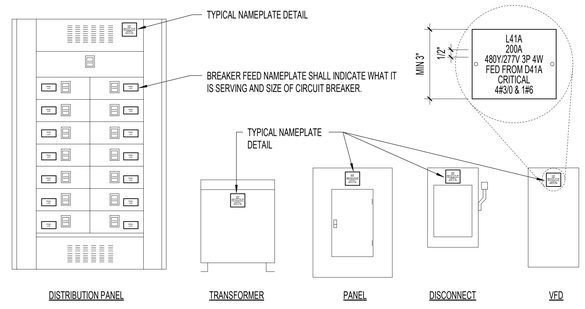


NOTES

1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. IF APPLICABLE FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

2 CONDUIT AND TRAY TRAPEZE MOUNTING DETAIL

NOT TO SCALE



DETAIL NOTES:
1. TAGS SHALL BE LAMINATED RESIN. TAG THICKNESS TO BE 1/16" FOR UNITS UP TO 20 SQUARE INCHES OR 8" IN LENGTH AND 1/8" FOR LARGER TAGS.
2. SECURE TAGS TO EQUIPMENT WITH SELF-TAPPING STAINLESS STEEL SCREWS, .
3. COLOR CODES:
   A. NORMAL POWER SYSTEM: LAMINATED BLACK WITH A WHITE CORE WITH ENGRAVED LETTERING.
   B. ESSENTIAL ELECTRICAL SYSTEM (EES): LAMINATED RED WITH A WHITE CORE WITH ENGRAVED LETTERING.
4. IDENTIFICATION SIGNS SHALL INDICATE EQUIPMENT DESIGNATION, RATED BUS AMPERAGE OR MCB RATING, VOLTAGE, NUMBER OF PHASES, NUMBER OF WIRES, AND TYPE OF EES POWER BRANCH AS APPLICABLE.
5. REFER TO SPECIFICATION SECTION 260511.

1 TYPICAL EQUIPMENT NAMEPLATE LOCATIONS

NOT TO SCALE

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100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
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Revisions:	Date:

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U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DETAILS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

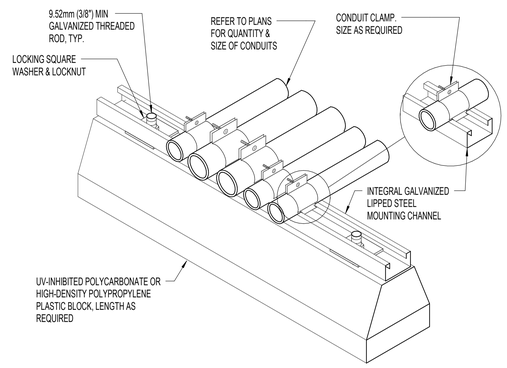
Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

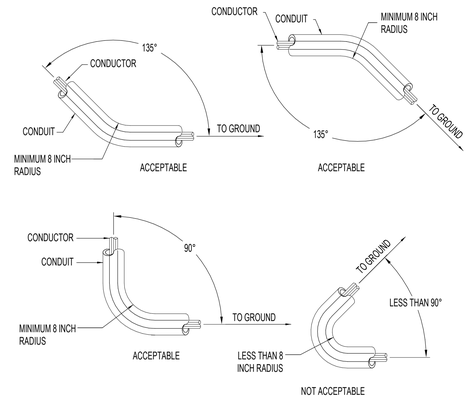
Drawing Number: E502

VA FORM 08-6231



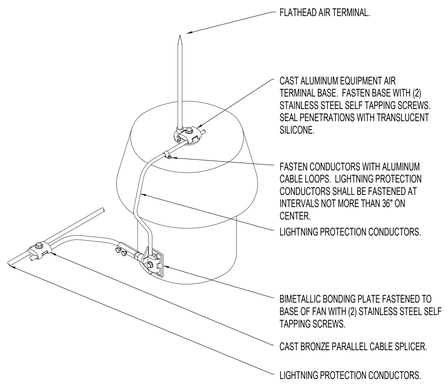
6 ROOF CONDUIT SUPPORT DETAIL

NOT TO SCALE



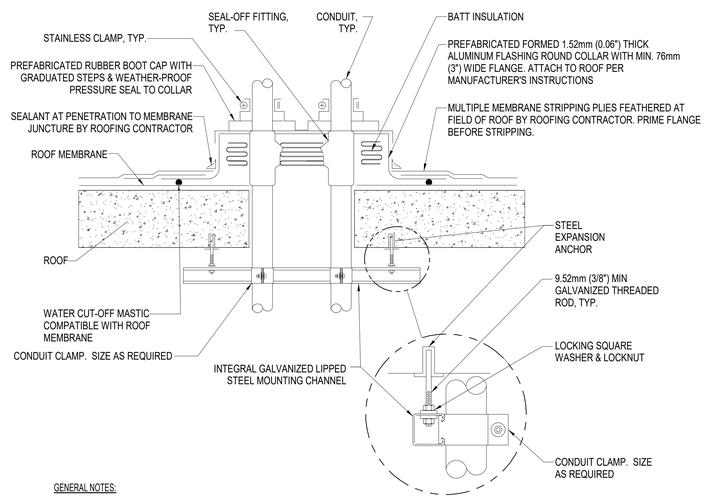
5 LIGHTNING PROTECTION CONDUCTOR BENDING REQUIREMENTS DETAIL

NOT TO SCALE



3 EXHAUST AIR TERMINAL DETAIL

NOT TO SCALE



GENERAL NOTES:

1. MAINTAIN A MINIMUM CLEARANCE OF 305mm (12") ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

1 CONDUIT ROOF PENETRATION DETAIL

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS	**06/10/2026**
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90% CONSTRUCTION DOCUMENT	**08/23/2024**
60% DESIGN DEVELOPMENT	**05/08/2024**
Revisions:	**Date:**

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - DETAILS

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

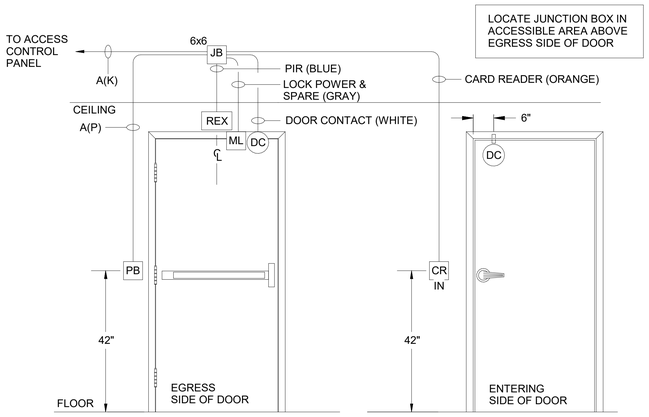
Project Title
RENOVATIONS TO BUILDING 217

Location
EDWARD J. HINES JR. VAMC

Issue Date 06/10/2026
Checked WG
Drawn BX

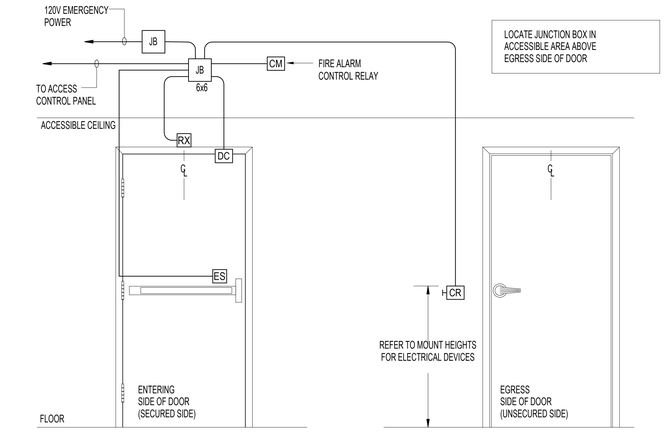
Project Number 578-26-016
Building Number 217
Drawing Number E503

VA FORM 08-6231



5 SINGLE DOOR WITH MAGNETIC LOCK

NOT TO SCALE



3 SINGLE DOOR WITH ELECTRIC STRIKE DETAIL

NOT TO SCALE

NOTES:

A. WHERE INSTALLATION DOES NOT OCCUR WHERE THERE IS AN ACCESSIBLE CEILING ABOVE. CONDUITS SHALL HOME RUN TO THE NEAREST ACCESSIBLE CEILING OR TO A SECURITY PANEL.

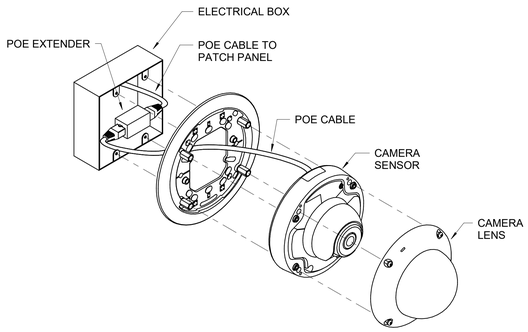
B. DETAILS ARE REPRESENTATIVE OF TYPICAL INSTALLATION. VERIFY EXACT REQUIREMENTS WITH VA SECURITY VENDOR FOR ROUGH-IN AND POWER.

C. 3/4" CONDUIT MINIMUM.

D. REFER TO ARCHITECTURAL DRAWINGS FOR HARDWARE DOOR SCHEDULE.

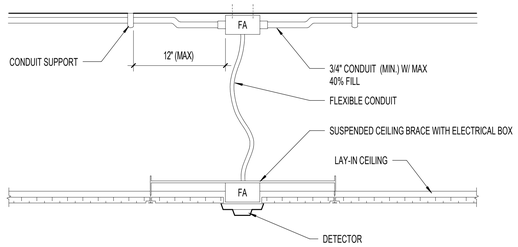
X ELECTRIC STRIKE KEY NOTES

1. RECESSED MAGNETIC DOOR CONTACT.
2. PROVIDE REQUEST TO EXIT MOTION.
3. ELECTRIC DOOR STRIKE. WIRE THROUGH DOOR TO STRIKE.
4. REQUEST TO EXIT PNEUMATIC PUSH BUTTON.
5. CARD READER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG PLASTER-RING MOUNTED FLUSH WITH WALL.



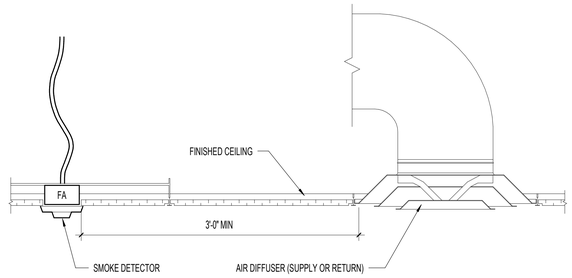
7 CEILING MOUNED CAMERA DETAIL

NOT TO SCALE



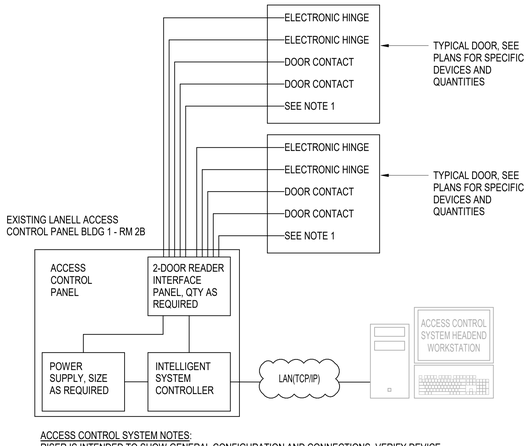
4 TYPICAL SMOKE DETECTOR MOUNTING DETAIL

NOT TO SCALE



2 SMOKE DETECTOR/AIR DIFFUSER MINIMUM DISTANCE DETAIL

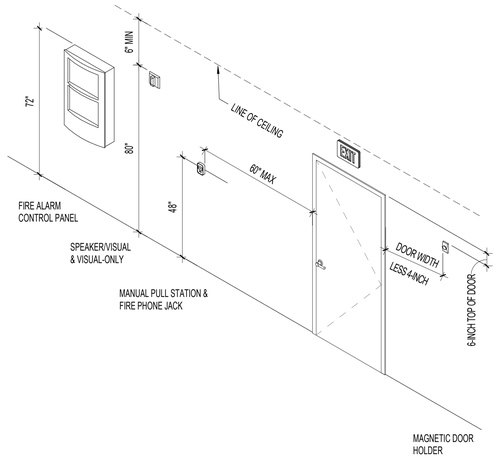
NOT TO SCALE



ACCESS CONTROL SYSTEM NOTES:
RISER IS INTENDED TO SHOW GENERAL CONFIGURATION AND CONNECTIONS. VERIFY DEVICE QUANTITIES FROM FLOOR PLANS AND PROVIDE AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. ALL CABLING SHALL BE IN CONDUIT DEDICATED FOR THE ACCESS CONTROL SYSTEM. MINIMUM SIZE CONDUIT IS 1". VERIFY ALL CABLING TYPES AND QUANTITIES WITH MANUFACTURER AS PROVIDED AS REQUIRED.

6 281300 TYPICAL ACCESS CONTROL SYSTEM RISER DIAGRAM

NOT TO SCALE



1 FIRE ALARM DEVICES MOUNTING HEIGHTS

NOT TO SCALE

FIRE ALARM SYSTEM INPUT OUTPUT MATRIX

INPUT DEVICE ↓ / OUTPUT →	1. SOUND GENERAL BUILDING ALARM (FOR OTHER AND NON-HIGH RISE (NON-HEALTH CARE). SEE SECTION 1.2.1	2. NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTH CARE, AMBULATORY HEALTH CARE*** AND HIGH RISE BUILDINGS ONLY (ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	3. NOTIFY FIRE DEPARTMENT.	4. INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE.	5. CLOSE ASSOCIATED SMOKE BARRIER DOORS ON THE FLOOR.	6. CLOSE DAMPERS ON FAN PROXIMATE TO DETECTOR.	7. SHUT DOWN AIR HANDLER SERVED BY DETECTOR.	8. RECALL ELEVATOR.	9. INITIATE ELEVATOR SHUT DOWN AND DISCONNECT ELEVATOR POWER.	10. OPEN** LOCKED EGRESS DOORS ON THE FLOOR OF FIRE ORIGIN.	11. DISCONNECT FUEL SOURCE FROM COOKING EQUIPMENT.
DUCT SMOKE DETECTOR*				X[b]		X	X[a]				
AREA SMOKE DETECTOR*	X	X	X							X	
DOOR RELEASE SMOKE DETECTOR*	X	X	X		X	X				X	
ELEVATOR SMOKE DETECTOR*	X	X	X					X			
MANUAL PULL STATION	X	X	X		X					X	
ELEVATOR MACHINE ROOM HEAT DETECTOR											
GENERATOR ROOM HEAT DETECTOR	X	X	X							X	
SPRINKLER WATERFLOW / PRESSURE SWITCH	X	X	X		X					X	
WATER CONTROL VALVE TAMPER SWITCH				X							
FIRE PUMP (ANY ALARM CONDITION REQUIRED BY NFPA 20)				X							
HIGH/LOW PRESSURE DRY-PIPE SPRINKLER SYSTEM				X							
KITCHEN HOOD SUPPRESSION SYSTEM	X	X	X		X					X	X
GAS EXTINGUISHING SYSTEMS	X	X	X		X					X	
DRY-PIPE VALVE ROOM TEMPERATURE ALARM				X							
DEDICATED FIRE WATER STORAGE TANK LOW LEVEL				X							
DEDICATED FIRE WATER STORAGE TANK LOW TEMPERATURE				X							

* WHILE NFPA 101 DOES NOT REQUIRE SOME DETECTORS TO NOTIFY BUILDING OCCUPANTS, VA REQUIRES ALL SMOKE DETECTORS, OTHER THAN DUCT SMOKE DETECTORS, TO NOTIFY BUILDING OCCUPANTS. ONLY INSTALL SMOKE DETECTORS WHEN REQUIRED BY NFPA 101 OR ITS REFERENCES.
** THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS ELECTRICAL LOCKING SYSTEMS AND SENSOR RELEASE ELECTRICAL LOCKING SYSTEMS.
*** THIS APPLIES TO AMBULATORY HEALTH CARE OCCUPANCIES THAT REQUIRE SMOKE BARRIERS PER NFPA 101 OR ARE DESIGNED WITH MULTIPLE SMOKE ZONES.
a – DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.
b – THE FACILITY IS PERMITTED TO SOUND THE GENERAL ALARM OR NOTIFY NECESSARY STAFF IN LIEU OF INITIATING SUPERVISORY SIGNAL TO BE CONSISTENT WITH THE OPERATION OF EXISTING SYSTEMS.

100% CONSTRUCTION DOCUMENTS	06/10/2026
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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DETAILS

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

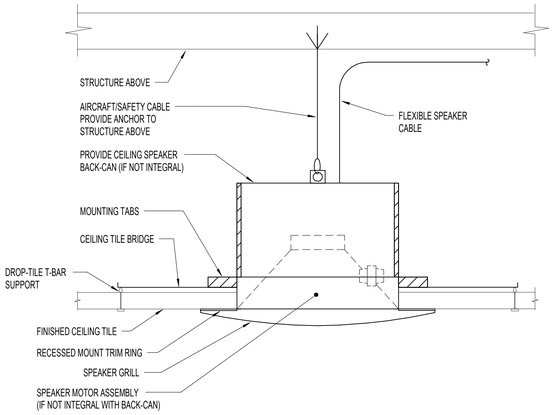
Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: E504

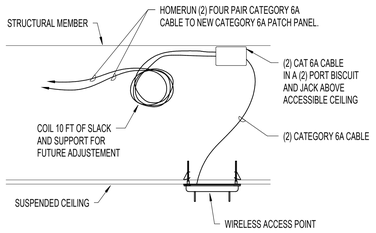
VA FORM 08-6231



NOTES:
1. WHERE SUPPORTS ATTACH TO METAL ROOF DECKING, EXCLUDING CONCRETE ON METAL DECKING, DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDE ELECTRICAL AND MECHANICAL ITEMS HANGING FORM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, THE ADDITION OF SUPPLEMENTAL FRAMING OFF STEEL FRAMING WILL BE REQUIRED.

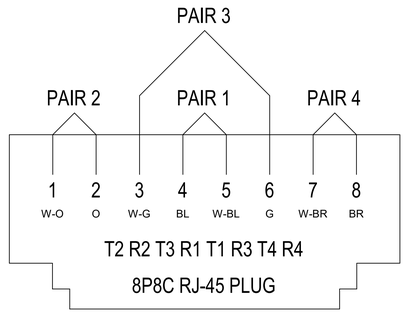
7 CEILING PUBLIC ADDRESS SYSTEM SPEAKER DETAIL

NOT TO SCALE



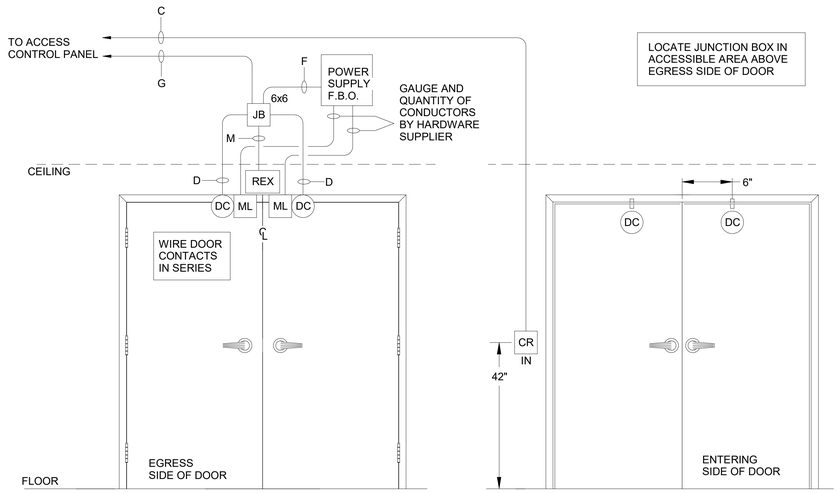
4 WIRELESS ACCESS POINT (WAP) DETAIL

NOT TO SCALE



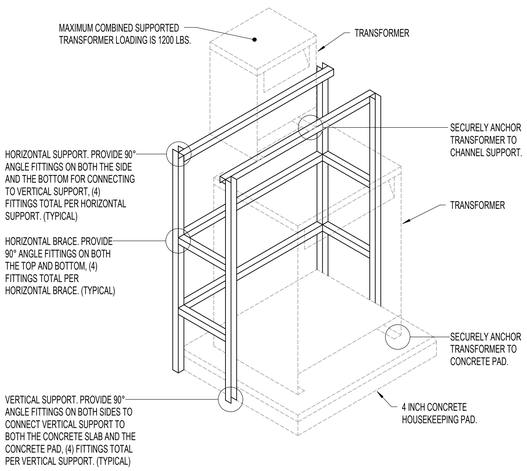
5 TELECOMMUNICATIONS T568B JACK WIRING DIAGRAM

NOT TO SCALE



3 DOUBLE DOOR WITH MAGNETIC LOCK

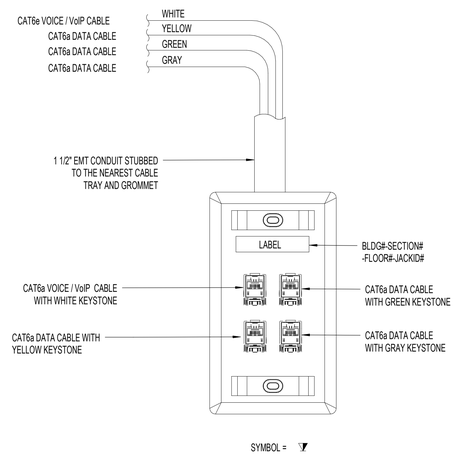
NOT TO SCALE



DETAIL NOTES:
1. ALL SUPPORTING CHANNEL PROVIDED TO BE AS MANUFACTURED BY B-LINE CAT#B22TH SERIES.
2. ALL FITTINGS PROVIDED TO BE AS RECOMMENDED BY B-LINE TO EQUAL THE SUPPORT CAPACITY OF THE PROVIDED CHANNEL.

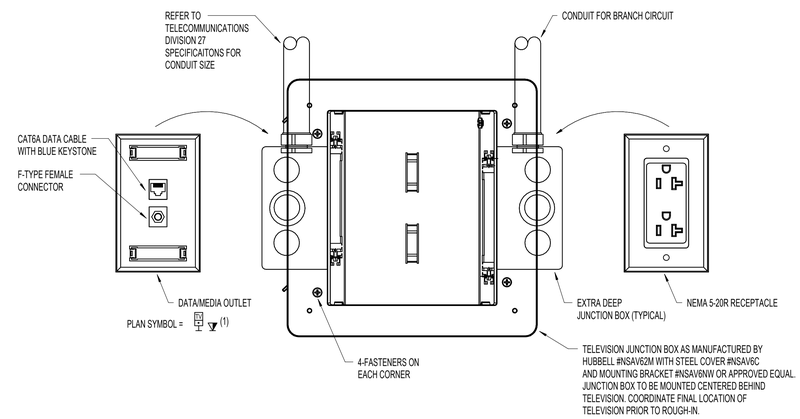
6 STACKED TRANSFORMER MOUNTING DETAIL

NOT TO SCALE



2 FOUR PORT FACEPLATE DETAIL

NOT TO SCALE



1 TELEVISION OUTLET ENCLOSURE DETAIL

NOT TO SCALE

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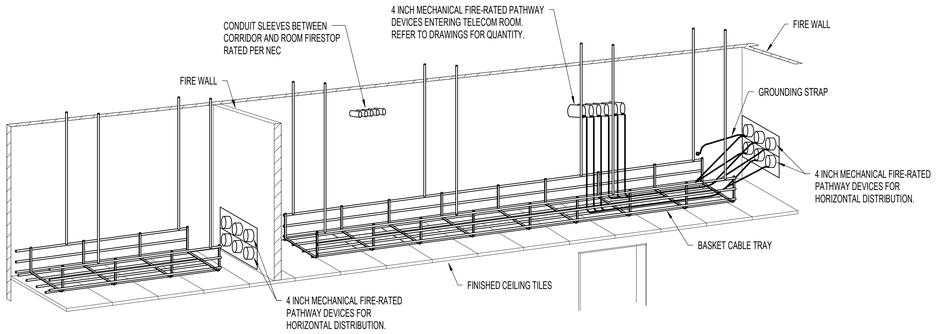
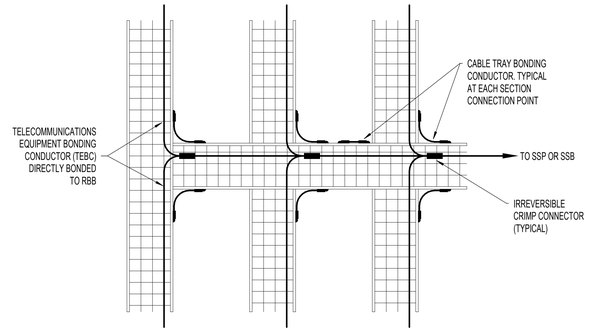
Drawing Title: ELECTRICAL - DETAILS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: RENOVATIONS TO BUILDING 217	Project Number: 578-26-016
Approved: Project Director	FULLY SPRINKLERED	Location: EDWARD J. HINES JR. VAMC	Building Number: 217
		Issue Date: 06/10/2026 · Checked: WG · Drawn: JC	Drawing Number: E505

VA FORM 08-6231



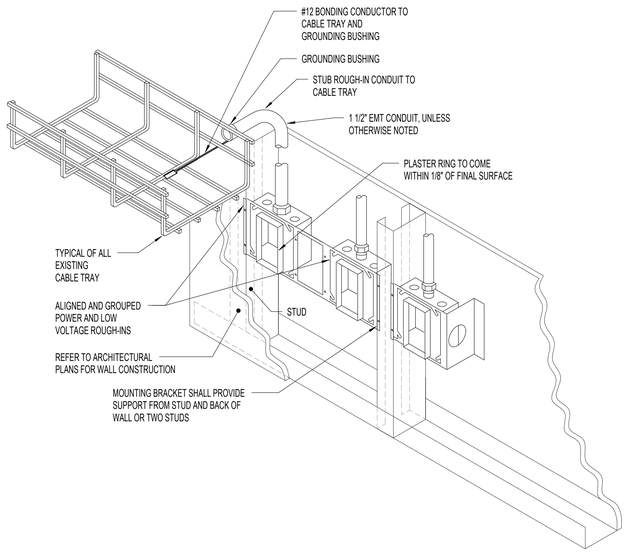
8 CABLE TRAY WITH FIRE WALL PENETRATIONS

NOT TO SCALE



4 BASEKET CABLE TRAY BONDING DETAIL

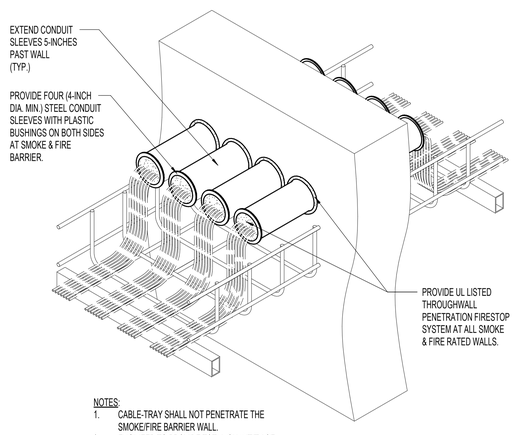
NOT TO SCALE



1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.
6. TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
7. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY IN THE ROOM.
8. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
9. FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

6 COMMUNICATIONS OUTLET ROUGH-IN TO CABLE TRAY DETAIL

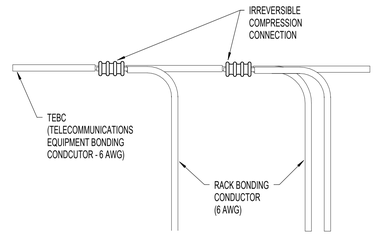
NOT TO SCALE



NOTES:
1. CABLE-TRAY SHALL NOT PENETRATE THE SMOKE/FIRE BARRIER WALL.
2. ENGINEER TO PROVIDE TOTAL QUANTITY OF SLEEVES REQUIRED FOR 150% OF RATED CABLE TRAY CAPACITY.

7 CABLE TRAY TRANSITION AT SMOKE & FIRE-RATED WALLS

NOT TO SCALE



5 TELECOMMUNICATIONS BONDING REQUIREMENTS

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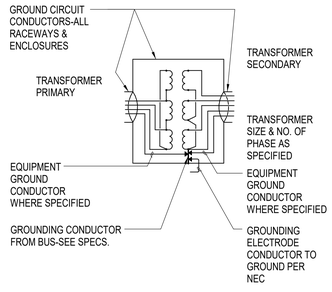
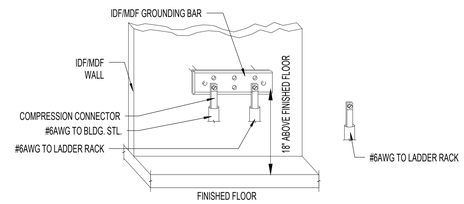


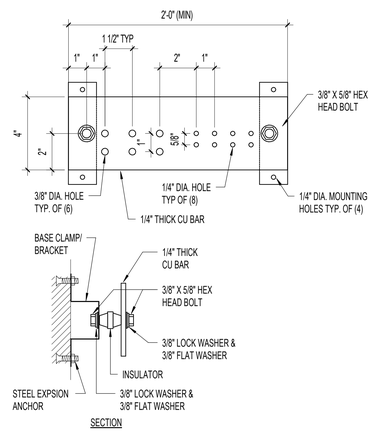
3 DRY TYPE TRANSFORMER (600V OR LESS) GROUNDING

NOT TO SCALE



2 GROUND BUS DETAIL

NOT TO SCALE



GENERAL NOTES:
A. ALL HARDWARE SHALL BE STAINLESS STEEL.
B. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
C. HOLES MAY BE ADDED IF REQUIRED.

1 GROUND BAR DETAIL

NOT TO SCALE

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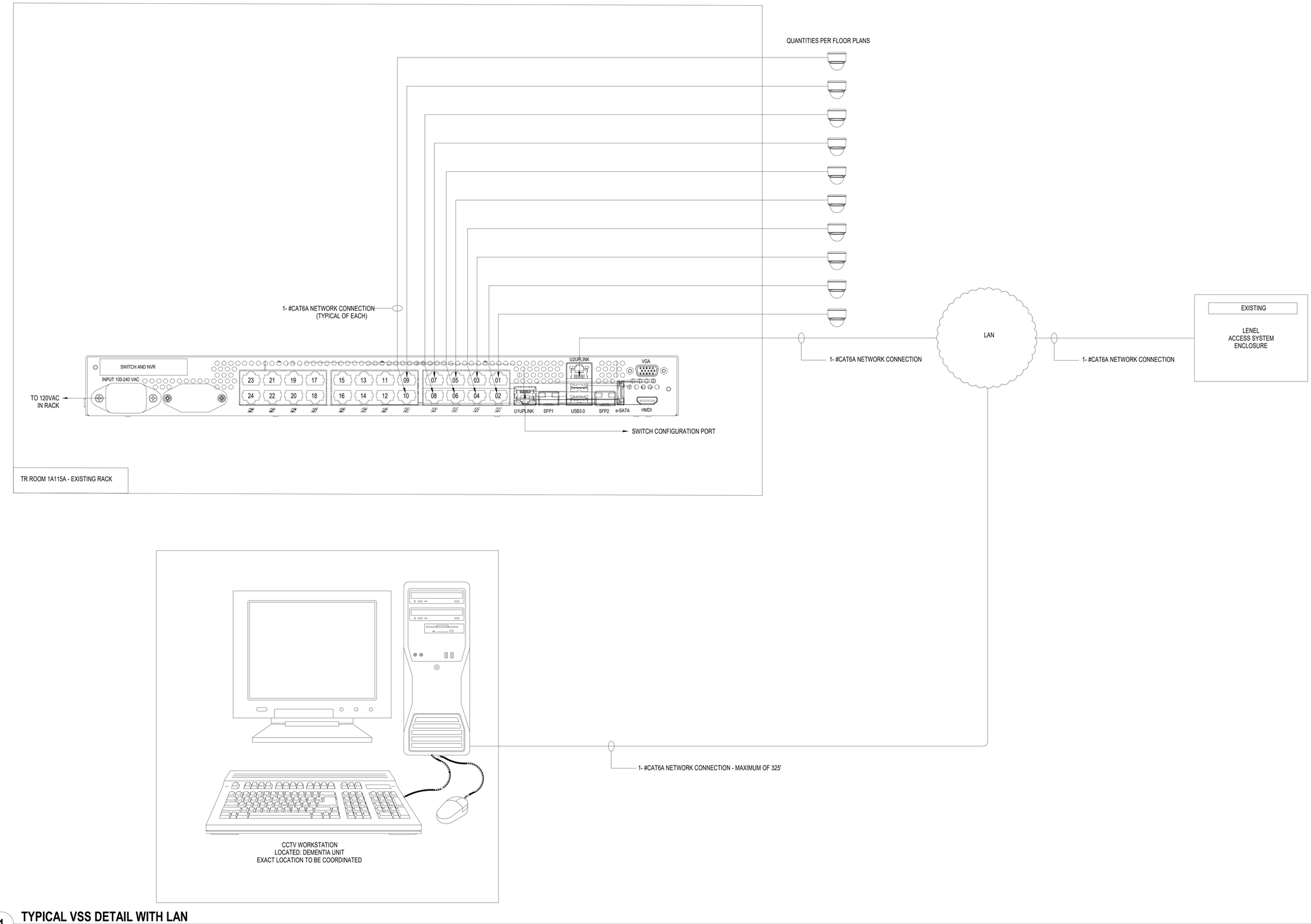
Drawing Title	Phase	Project Title	Project Number
ELECTRICAL - DETAILS	100% CONSTRUCTION DOCUMENTS	RENOVATIONS TO BUILDING 217	578-26-016
			Building Number: 217
Approved: Project Director	FULLY SPRINKLERED	Location: EDWARD J. HINES JR. VAMC	Drawing Number: E506
		Issue Date / Checked: WG / Drawn: JC	

VA FORM 08-6231



1 TYPICAL VSS DETAIL WITH LAN

NOT TO SCALE

Revisions:	Date:

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Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date

Checked: WG

Drawn: JC

Project Number: 578-26-016

Building Number: 217

Drawing Number: E507

VA FORM 08-6231

LUMINAIRE SCHEDULE

NOTES:

1.) CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL LUMINAIRE IN VARYING CEILING TYPES AS SHOWN ON THE PLANS.
2.) FINAL FINISH TO BE SELECTED BY THE ARCHITECT.
3.) REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS.
4.) REFER TO ARCHITECTURAL ELEVATIONS TO CONFIRM FINAL SUSPENSION LENGTHS.
5.) PROVIDE CONTINUOUS ROW LUMINAIRES AS SHOWN ON THE PLANS.
6.) WET LOCATION APPLICATION IN PATIENT TOILET ROOMS. REFER TO INSTALLATION INSTRUCTIONS.

GENERAL NOTES:

a.) CONTRACTOR TO PROVIDE NECESSARY MOUNTING HARDWARE AND LABOR FOR LUMINAIRES.
b.) LAY-IN CEILING GRID LUMINAIRES SHALL BE FOR USE WITH STANDARD 15/16" GRID SYSTEM.
c.) SUBSTITUTE LUMINAIRES FROM MANUFACTURERS OTHER THAN THOSE LISTED SHALL BE SUBMITTED FOR PRE-APPROVAL (10) DAYS PRIOR TO SUBMISSION OF BID.
d.) EXIT SIGN NUMBER OF FACES AND ARROWS AS SHOWN ON PLAN.

TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTS	MANUFACTURER & CATALOG NUMBER	ALTERNATE MANUFACTURER	NOTES
EM1	AC POWERED EMERGENCY EXIT SIGN, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	TOP MOUNT	LED	120 V	2.5	CHLORIDE 46L-XX-W-R	APPROVED EQUAL	1
EM2	AC POWERED EMERGENCY EXIT SIGN, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	WALL	LED	120 V	2.5	CHLORIDE 46L-XX-W-R	APPROVED EQUAL	1
L1	2'X2' LED RECESSED TROFFER, WITH CENTERED BASKET CURVED SMOOTH DIFFUSER, 4500 NOMINAL LUMENS	RECESSED	LED	277 V	34	DAY-BRITE 2-FGX-G-45L-835-2-RS-UNV-DIM-BAC	APPROVED EQUAL	1
L2	2'X4' LED RECESSED TROFFER, WITH CENTERED BASKET CURVED SMOOTH DIFFUSER, 4800 NOMINAL LUMENS	RECESSED	LED	277 V	36	DAY-BRITE 2-FGX-G-48L-835-4-RS-UNV-BAC	APPROVED EQUAL	1
L3-4	4FT LINEAR LED RECESSED, FROSTED ACRYLIC LENS, 750 NOMINAL LUMENS/FT	RECESSED	LED	277 V	28	LUMENWERX VIA4R-D-HLO-FH-SW-80CRI-750LMF-35K-4FT-UNV-D1-1C-TB15-W	APPROVED EQUAL	1,5
L3-6	6FT LINEAR LED RECESSED, FROSTED ACRYLIC LENS, 750 NOMINAL LUMENS/FT	RECESSED	LED	277 V	42	LUMENWERX VIA4R-D-HLO-FH-SW-80CRI-750LMF-35K-6FT-UNV-D1-1C-TB15-W	APPROVED EQUAL	1,5
L3-8	8FT LINEAR LED RECESSED, FROSTED ACRYLIC LENS, 750 NOMINAL LUMENS/FT	RECESSED	LED	277 V	56	LUMENWERX VIA4R-D-HLO-FH-SW-80CRI-750LMF-35K-8FT-UNV-D1-1C-TB15-W	APPROVED EQUAL	1,5
L3-10	10FT LINEAR LED RECESSED, FROSTED ACRYLIC LENS, 750 NOMINAL LUMENS/FT	RECESSED	LED	277 V	70	LUMENWERX VIA4R-D-HLO-FH-SW-80CRI-750LMF-35K-10FT-UNV-D1-1C-TB15-W	APPROVED EQUAL	1,5
L3-12	12FT LINEAR LED RECESSED, FROSTED ACRYLIC LENS, 750 NOMINAL LUMENS/FT	RECESSED	LED	277 V	84	LUMENWERX VIA4R-D-HLO-FH-SW-80CRI-750LMF-35K-12FT-UNV-D1-1C-TB15-W	APPROVED EQUAL	1,5
L4	2FT LINEAR LED VANITY, OPAQUE ACRYLIC DIFFUSER, 1400 NOMINAL LUMENS	WALL/ SURFACE	LED	120 V	10.7	SPECTRUM LIGHTING INC EV04IND24OL-07L-35K-EX-DW-SM-MW	APPROVED EQUAL	2,3
L5	4 INCH LED RECESSED DOWNLIGHT, WIDE DISTRIBUTION WITH COMFORT REFLECTOR, WHITE FLANGED, 1,000 NOMINAL LUMENS	RECESSED	LED	277 V	8.6	LIGHTOLIER 4RN-BAC-P4R-DL-10-935-W-CD-Z10-U-BAC	APPROVED EQUAL	1
L6	HORIZONTAL RECTANGLE LED STEP LIGHT, AMBER LIGHT SOURCE, ACYRLIC LENS, 2 WATTS, WET LOCATION APPLICATION	SEMI RECESSED	AMBER LED	120 V	2	CHLORIDE WG2H-2-XX	APPROVED EQUAL	2,6
L7	24" LED DRUM PENDANT, OPAQUE DIFFUSER, 4500 NOMINAL LUMENS	PENDANT	LED	277 V	43.5	LUMENWERX POROPD-24IN-ULO-5H-LED-80-4500-35-UNV-D1-1-5WA C36-XX	APPROVED EQUAL	1,2,4
L8-9	1.5 INCH APERTURE LINEAR LED WALL MOUNT, DIRECT/INDIRECT, LOW GLARE ACRYLIC FLUSH LENS DN, CLEAR ACRYLIC LENS IN, 350LM/FT DN, 350 LM/FT UP, LENGTH AS SHOWN ON PLAN	WALL	LED	277 V	91	LUMENWERX VIA1.5W-DI-LGO-FH-CLO-SW-80CRI-350LMF-350LMF-35K-11FT6IN-UNV-D1-1C-XX	APPROVED EQUAL	2.3.5
L8-11	1.5 INCH APERTURE LINEAR LED WALL MOUNT, DIRECT/INDIRECT, LOW GLARE ACRYLIC FLUSH LENS DN, CLEAR ACRYLIC LENS IN, 350LM/FT DN, 350 LM/FT UP, LENGTH AS SHOWN ON PLAN	WALL	LED	277 V	91	LUMENWERX VIA1.5W-DI-LGO-FH-CLO-SW-80CRI-350LMF-350LMF-35K-11FT6IN-UNV-D1-1C-XX	APPROVED EQUAL	2,3,5
L8-18	1.5 INCH APERTURE LINEAR LED WALL MOUNT, DIRECT/INDIRECT, LOW GLARE ACRYLIC FLUSH LENS DN, CLEAR ACRYLIC LENS IN, 350LM/FT DN, 350 LM/FT UP, LENGTH AS SHOWN ON PLAN	WALL	LED	277 V	106	LUMENWERX VIA1.5W-DI-LGO-FH-CLO-SW-80CRI-350LMF-350LMF-35K-18FT6IN-UNV-D1-1C-XX	APPROVED EQUAL	2,3,5
L8-20	1.5 INCH APERTURE LINEAR LED WALL MOUNT, DIRECT/INDIRECT, LOW GLARE ACRYLIC FLUSH LENS DN, CLEAR ACRYLIC LENS IN, 350LM/FT DN, 350 LM/FT UP, LENGTH AS SHOWN ON PLAN	WALL	LED	277 V	117	LUMENWERX VIA1.5W-DI-LGO-FH-CLO-SW-80CRI-350LMF-350LMF-35K-20FT6IN-UNV-D1-1C-XX	APPROVED EQUAL	2,3,5
L10	2X4 LED RECESSED TROFFER, #12 PATTERN, FROSTED PRISMATIC, 0.0125" THICK LENS, FLUSH STEEL, WHITE DOOR, 4800 NOMINAL LUMENS	RECESSED	LED	277 V	43.2	DAY-BRITE 2TG48L840-4-FS-12F-UNV-DIM	APPROVED EQUAL	1
L11	4 INCH LED RECESSED SHOWER DOWNLIGHT, WIDE DISTRIBUTION WITH WHITE REFLECTOR, WHITE FLANGED, 1,000 NOMINAL LUMENS, WET LISTED	RECESSED	LED	277 V	8.6	LIGHTOLIER 4RN-BAC-P4R-SL-10-935-W-WH-Z10-U-BAC	APPROVED EQUAL	1
L12	DECORATIVE RESIDENTIAL TYPE WALL SCONCE, FINISHES SELECTED BY ARCHITECT	WALL	LED	120 V	19	HEMERA SOW-XX-XX-MB-UPWARD	APPROVED EQUAL	2,3
L13	36-IN DIAMETER RECESSED LED, FROSTED FLAT ACRYLIC LENS, 7,000 NOMINAL LUMENS	RECESSED	LED	277 V	69	LUMENWERX POPOR-36IN-ULO-FH-SW-80-7000-35-UNV-D1-1-TB15-W-NA	OR APPROVED EQUAL	1
L15	11 INCH DECORATIVE LED WALL SCONCE, MATTE WHITE ACRYLIC DIFFUSER, 1300 NOMINAL LUMENS	WALL	LED	120 V	13	VISA LIGHTING CB5142-L35K(L)-MVOLT-RBT	APPROVED EQUAL	2,3
L16	3 INCH APERTURE LINEAR LED RECESSED PERIMETER LUMINAIRE, ACRYLIC FLUSH LENS WITH ASYMMETRIC OPTICS, 500LM/FT, LENGTH AS SHOWN ON PLAN	RECESSED	LED	277 V	5.5 W/FT	LUMENWERX V3PERL-ARFO-SW-80CRI-500LMF-35K-XX-UNV-D1-XM C-XECXX-TB9-XX-TES	APPROVED EQUAL	1,5
L17	5.5FT LINEAR LED UNDERCABINET, FROSTED LENS WITH ROCKER SWITCH, 192 LM/FT	UNDER-CABINET	LED	120 V	11	ALUZ A1-ZADY-STN-F-WH-35K-ZW-DRY-UNV-RWX-5.5FT	APPROVED EQUAL	1
L18	11 INCH DECORATIVE LED WALL SCONCE, MATTE WHITE ACRYLIC DIFFUSER, 1300 NOMINAL LUMENS	WALL	LED	277 V	13	VISA LIGHTING CB5142-L35K(L)-MVOLT-RBT	APPROVED EQUAL	2,3
L20	21.5-INCH (SMALL) DIAMETER LED RING PENDANT, DIRECT, WHITE OPAL DIFFUSER, 1301 LUMENS	PENDANT	LED	277 V	25	LIGHT ART LA2-SLIM-RING-21.5D-XX-835CK-EXT-CCL-XX-XX	APPROVED EQUAL	1,2,4
L21	33-INCH (MEDIUM) DIAMETER LED RING PENDANT, DIRECT, WHITE OPAL DIFFUSER, 2722 LUMENS	PENDANT	LED	277 V	40	LIGHTART LA2-SLIM-RING-33D-XX-835CK-EXT-CCL-XX-XX	APPROVED EQUAL	1,2,4
L22	43-INCH (LARGE) DIAMETER LED RING PENDANT, DIRECT, WHITE OPAL DIFFUSER, 4174 LUMENS	PENDANT	LED	277 V	50	LIGHTART LA2-SLIM-RING-43D-XX-835CK-EXT-CCL-XX-XX	APPROVED EQUAL	1,2,4
L23	57.5-INCH (EXTRA LARGE) DIAMETER LED RING PENDANT, DIRECT, WHITE OPAL DIFFUSER, 5626 LUMENS	PENDANT	LED	277 V	71	LIGHTART LA2-SLIM-RING-57.5D-XX-835CK-EXT-CCL-XX-XX	APPROVED EQUAL	1,2,4

OCCUPANCY SENSOR AND CONTROLS SCHEDULE

OCCUPANCY SENSOR GENERAL NOTES:

a.) ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
b.) ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.
c.) CONTRACTOR IS RESPONSIBLE FOR: PROPER SENSITIVITY & TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS) RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITHIN RESPECT TO POWER PLACEMENT.
d.) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
- ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT TO BE CONTROLLED.
- ONE POWER PACK IS REQUIRED FOR EACH ZONE.
- IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AN AUXILIARY RELAY CAN BE USED IN CONJUNCTION WITH THE POWER PACK.
- THE MAXIMUM NUMBER OF SENSORS THAT CAN BE PUT ON A POWER PACK IS TO BE REDUCED BY ONE FOR EACH SLAVE PACK USED.
- ROOM OCCUPANCY SENSORS TO PROVIDE SIGNAL FOR HVAC MANAGEMENT. OR ALL POWER PACKS SHALL HAVE AUX HVAC RELAY.
e.) WHERE RETURN AIR PLENUM IS UTILIZED, MOUNT CONTROL UNITS WITHIN JUNCTION BOXES INSTALLED PER ALL CODE REQUIREMENTS.
f.) CONTROL WIRING BETWEEN SENSORS AND CONTROLS UNITS SHALL BE CLASS II, 18-24 AWG, STRANDED UL CLASSIFIED. WHERE RETURN AIR PLENUM IS UTILIZED, ALL CONTROL WIRING SHALL BE PLENUM-RATED.
g.) SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.
h.) SENSOR PLACEMENT ON PLANS IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MANUFACTURER TO PRODUCE A MOTION SENSOR LAYOUT THAT IS COMPLIANT WITH THE GOVERNING ENERGY CODE.
i.) CONTRACTOR IS RESPONSIBLE FOR ENSURING MOTION CONTROL OF ALL LOCATIONS SHOWN ON PLAN.
j.) CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL CODE.
k.) ALL LINE VOLTAGE SENSORS AND ALL POWER PACKS SHALL HAVE AUXILIARY CONNECTIONS FOR FOR HVAC AUTOMATION. ELECTRICAL CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS WITH THE HVAC CONTRACTOR.
l.) PRODUCTS FROM SPECIFIED AND ACCEPTABLE MANUFACTURERS SHALL PROVIDE SAME LEVEL OF CONTROL AND SHALL PROVIDE AUXILIARY RELAY/CONTACTS FOR HVAC SYSTEM.

SYMBOL	TYPE	DESCRIPTION	MOUNTING	MANUFACTURER & CATALOG NUMBER	ACCEPTABLE MANUFACTURERS
OS	A	STANDARD RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED OCCUPANCY SENSOR	CEILING	WATTSTOPPER LMPC-100-1-U	APPROVED EQUAL
OS	B	EXTENDED RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED OCCUPANY SENSOR	CEILING	WATTSTOPPER LMPC-100-1-U	APPROVED EQUAL
OS	C	EXTENDED RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR	CEILING	WATTSTOPPER LMDC-100-U	APPROVED EQUAL
$	SW1	ON/OFF/DIM WALL SWITCH SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY	WALL	WATTSTOPPER LMDW-211-U	APPROVED EQUAL
$	SW2	ON/OFF/DIM, SINGLE ZONE PUSH-BUTTON CONTROL STATION	WALL	WATTSTOPPER LMSW-211-U	APPROVED EQUAL
$	SW3	ON/OFF SINGLE ZONE PUSH-BUTTON CONTROL STATION	WALL	WATTSTOPPER LMSW-210-U	APPROVED EQUAL
$	SW4	WALL SWITCH SENSOR, LOW VOLTAGE, PASSIVE INFRARED	WALL	WATTSTOPPER LMDW-220-U	APPROVED EQUAL

LIGHTING CONTROLS SEQUENCE OF OPERATION SCHEDULE

NOTES:

1.) CORRIDOR NORMAL LIGHTING BRANCH CIRCUITS SHALL DIM TO 20% LUMEN OUTPUT DURING VACANCY AND SHALL DIM TO 100% LUMEN OUTPUT WHEN OCCUPANCY IS DETECTED. CORRIDOR EMERGECNY LIGHTING BRANCH CIRCUIT SHALL SWITCH TO 100% LUMEN OUTPUT IN THE EVENT OF A POWER LOSS.
2.) NORMAL LIGHTING BRANCH CIRCUIT(S) IN THIS ROOM SHALL AUTOMATICALLY TURN ON TO 100% AT THE START OF THE FACILITY BUSINESS HOURS AND SHUT OFF AUTOMATICALLY AT THE END OF BUSINESS HOURS. PROVIDE LOCAL 2-HOUR OVERRIDE CAPABILITY FOR AFTER BUSINESS HOURS OPERATION.
3.) EMERGENCY LIGHTING BRANCH CIRCUIT(S) IN THIS ROOM SHALL AUTOMATICALLY DIM TO 50% OUTPUT AT THE END OF THE BUSINESS HOURS. SHALL COMPLY WITH UL924. 100% OUTPUT AT THE EVENT OF NORMAL POWER LOSS.

GENERAL NOTES:

A.) LIGHTING RELAY PANEL SHALL HAVE BACNET IP CAPABILITY.
B.) COORDINATE OPERATION OF BUSINESS HOURS WITH COR.
C.) PATIENT ROOM NIGHT LIGHTS SHALL BE TIME CLOCK CONTROLLED. WIRE TO THE THE LIGHTING CONTROL RELAY PANEL SERVING THE AREA.
D.) PATIENT ROOM GENERAL LIGHTING ON SWITCHLEG "b" AND BED LIGHTING TYPE "L12" SHALL BE CONTROLLED VIA THE NURSE CALL SYSTEM PILLOW SPEAKER.

		OCCUPANCY SENSOR CONTROL				DAYLIGHT RESPONSIVE CONTROL				TIME BASED CONTROL		
NUMBER	NAME	NONE	AUTOMATIC ON	MANUAL ON	AUTOMATIC DELAYED OFF	NONE	ON/OFF	AUTOMATIC DIMMING	AVGERAGE ILLUMINATION	YES	NO	NOTES
-	SALLY PORT		X		10	X					X	1
1A45	NURSE STATION	X				X		X		X		
1A451	DEMENTIA UNIT GATHERING SPACE	X						X		X		
1B142	STAFF WORK AREA		X		30	X					X	
1B151	CLEAN LINEN			X	5	X					X	
1B152	CLEAN UTILITY			X	10	X					X	
1B153	SOILED UTILITY			X	10	X					X	
1B160	MULTIPURPOSE ROOM			X	30	X					X	
1B161	PUBLIC TOILET		X		30	X					X	
1B178A	EQUIPMENT STORAGE			X	10	X					X	
1B178B	WOUND CARE STORAGE			X	10	X					X	
1B179	TOILET ROOM		X		15	X					X	
2A12A	CONFERENCE ROOM			X	30	X					X	
2A12B	CONFERENCE ROOM			X	30	X					X	
2A18	DINING ROOM		X		30	X					X	
C150	CORRIDOR		X		30	X				X		1

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
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STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - LUMINAIRE AND CONTROLS SCHEDULES

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: BX

Project Number: 578-26-016

Building Number: 217

Drawing Number: E601

VA FORM 08-6231

A/V OUTLET SCHEDULE

LABEL	DESCRIPTION	OUTLETS	BOX	BOX DEPTH
B1	MEDIA OUTLET	DUAL BINDING SPEAKER KEYSTONES	2-GANG	STANDARD
C1	SPEAKER	DUAL BINDING SPEAKER KEYSTONES	SINGLE GANG	STANDARD

MECHANICAL EQUIPMENT SCHEDULE

NOTES:

a.) UNLESS OTHERWISE NOTED, WIRING SIZE SHALL BE PER "WIRE SIZING TABLE" IN ELECTRICAL COVER SHEET.
b.) LOW VOLTAGE VAVS SHOWN ON PLAN FOR REFERENCE. VAVS TO BE WIRED TO THE NEAREST POWER SUPPLY AS SHOWN ON PLAN. COORDINATE WITH TEMPERATURE CONTROLS CONTRACTOR FOR LOW VOLTAGE WIRING AND CONDUIT.

			LOAD					POWER SOURCE			STARTER SIZE		DISCONNECT		
EQUIPMENT TAG	EQUIPMENT DESCRIPTION	LOCATION	VOLTAGE	PHASE	MCA	CONDUIT AND WIRE SIZE	HP	PANEL	CIRCUIT NO.	KAIC	SIZE	TYPE	SIZE	TYPE	NOTES
EF-08	EXHAUST FAN GREENHECK G-140-VG	ROOFTOP CURB	120 V	1 Ø	20.0 A	2#12, 1#12 IN 3/4"C	1	NP-5B	13	N/A	NEMA 0	NEMA 3R	30/2P	NEMA 3R	DISCONNECT FURNISHED WITH EQUIPMENT, TO BE WIRED BY ELECTRICAL CONTRACTOR.
EF-09	EXHAUST FAN GREENHECK G-140-VG	ROOFTOP CURB	120 V	1 Ø	20.0 A	2#12, 1#12 IN 3/4"C	1	NP-5B	15	N/A	NEMA 0	NEMA 3R	30/2P	NEMA 3R	DISCONNECT FURNISHED WITH EQUIPMENT, TO BE WIRED BY ELECTRICAL CONTRACTOR.
EF-11	EXHAUST FAN GREENHECK G-120-VG	ROOFTOP CURB	120 V	1 Ø	12.3 A	2#12, 1#12 IN 3/4"C	0.5	NP-5B	17	N/A	NEMA 0	NEMA 3R	30/2P	NEMA 3R	DISCONNECT FURNISHED WITH EQUIPMENT, TO BE WIRED BY ELECTRICAL CONTRACTOR.

COPPER FEEDER SCHEDULE

FEEDER DESIGNATION	No. OF SETS	PHASE CONDUCTOR (PER SET)	N NEUTRAL CONDUCTOR (PER SET)	G GROUND CONDUCTOR (PER SET)	SG SYSTEM BONDING JUMPER (PER SET)	P PARTIAL NEUTRAL SERVICE CONDUCTOR (PER SET)	I ISOLATED GROUND CONDUCTOR (PER SET)	CONDUIT SIZE - CONDUIT TYPES EMT, FMC, LFMC, IMC, RMC, SCH 40 PVC: 3 PHASE NEUTRAL & GROUND 'NG', 'NSG' 'PG','PSG' (PER SET)	3 PHASE & GROUND 'G' (PER SET)	3 PHASE NEUTRAL, GROUND & ISOLATED GROUND 'NGI',NSGI' (PER SET)	CONDUIT SIZE - CONDUIT TYPES SCH 80 PVC: 3 PHASE NEUTRAL & GROUND 'NG',NSG' 'PG','PSG' (PER SET)	3 PHASE & GROUND 'G' (PER SET)	3 PHASE NEUTRAL GROUND & ISOLATED GROUND 'NGI','NSGI' (PER SET)
15	1	3 #12	1 #12	1 #12	1 #8		1 #12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
20	1	3 #12	1 #12	1 #12	1 #8		1 #12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
30	1	3 #10	1 #10	1 #10	1 #8		1 #10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
40/50	1	3 #8	1 #8	1 #10	1 #8		1 #10	3/4"	3/4"	1"	1"	3/4"	1"
60	1	3 #6	1 #6	1 #10	1 #8		1 #10	1"	3/4"	1"	1"	1"	1 1/4"
70/80	1	3 #4	1 #4	1 #8	1 #8		1 #8	1 1/4"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
100	1	3 #2	1 #2	1 #8	1 #8	1 #8	1 #8	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/4"	1 1/2"
115	1	3 #2	1 #2	1 #6	1 #8	1 #8	1 #6	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/4"	1 1/2"
130	1	3 #1	1 #1	1 #6	1 #6	1 #6	1 #6	1 1/2"	1 1/2"	1 1/2"	2"	1 1/2"	2"
150	1	3 #1/0	1 #1/0	1 #6	1 #6	1 #6	1 #6	2"	1 1/2"	2"	2"	1 1/2"	2"
175	1	3 #2/0	1 #2/0	1 #6	1 #4	1 #4	1 #6	2"	1 1/2"	2"	2"	2"	2"
200	1	3 #3/0	1 #3/0	1 #6	1 #4	1 #4	1 #6	2"	2"	2"	2 1/2"	2"	2 1/2"
225	1	3 #4/0	1 #4/0	1 #4	1 #2	1 #2	1 #4	2 1/2"	2"	2 1/2"	2 1/2"	2"	2 1/2"
250	1	3 #250	1 #250	1 #4	1 #2	1 #2	1 #4	2 1/2"	2"	2 1/2"	3"	2 1/2"	3"
300	1	3 #350	1 #350	1 #4	1 #2	1 #2	1 #4	3"	2 1/2"	3"	3"	3"	3"
350	1	3 #500	1 #500	1 #3	1 #1/0	1 #1/0	1 #3	4"	3"	4"	4"	3"	4"
400	2	3 #3/0	1 #3/0	1 #3	1 #1/0	1 #1/0	1 #3	2"	2"	2 1/2"	2 1/2"	2"	2 1/2"
460	2	3 #4/0	1 #4/0	1 #2	1 #1/0	1 #1/0	1 #2	2 1/2"	2"	2 1/2"	2 1/2"	2"	2 1/2"
500	2	3 #250	1 #250	1 #2	1 #1/0	1 #1/0	1 #2	2 1/2"	2 1/2"	3"	3"	2 1/2"	3"
600	2	3 #350	1 #350	1 #1	1 #2/0	1 #2/0	--	3"	2 1/2"	--	3"	3"	--
700	2	3 #500	1 #500	1 #1/0	1 #2/0	1 #2/0	--	4"	3"	--	4"	3"	--
800	3	3 #300	1 #300	1 #1/0	1 #2/0	1 #2/0	--	3"	2 1/2"	--	3"	2 1/2"	--
1000	3	3 #400	1 #400	1 #2/0	1 #3/0	1 #3/0	--	3"	3"	--	4"	3"	--
1200	4	3 #350	1 #350	1 #3/0	1 #4/0	1 #4/0	--	3"	2 1/2"	--	3"	3"	--
1600	5	3 #400	1 #400	1 #4/0	1 #250	1 #250	--	3"	3"	--	4"	3"	--
2000	6	3 #400	1 #400	1 #250	1 #300	1 #300	--	3"	3"	--	4"	3"	--
2500	7	3 #500	1 #500	1 #350	1 #500	1 #500	--	4"	3"	--	4"	4"	--
3000	8	3 #500	1 #500	1 #400	1 #500	1 #500	--	4"	3"	--	4"	4"	--
4000	11	3 #500	1 #500	1 #500	2 #350	1 #500	--	4"	4"	--	4"	4"	--

EXAMPLES:
1. 150NG = INDICATES 1 SET OF 4# 1/0 + 1# 6 GROUND CONDUCTOR PER SET.
2. 500P = INDICATES 2 SETS OF 3 # 250KCMIL AND 1 # 1/0 PARTIAL NEUTRAL CONDUCTOR PER SET.
3. 300NNG = INDICATES 5 # 350KCMIL AND 1 # 4 GROUND CONDUCTOR.

100% CONSTRUCTION DOCUMENTS	06/10/2026
ADDENDUM #2	06/10/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024
Revisions:	Date:

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - SCHEDULES

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026

Checked: WG

Drawn: JC

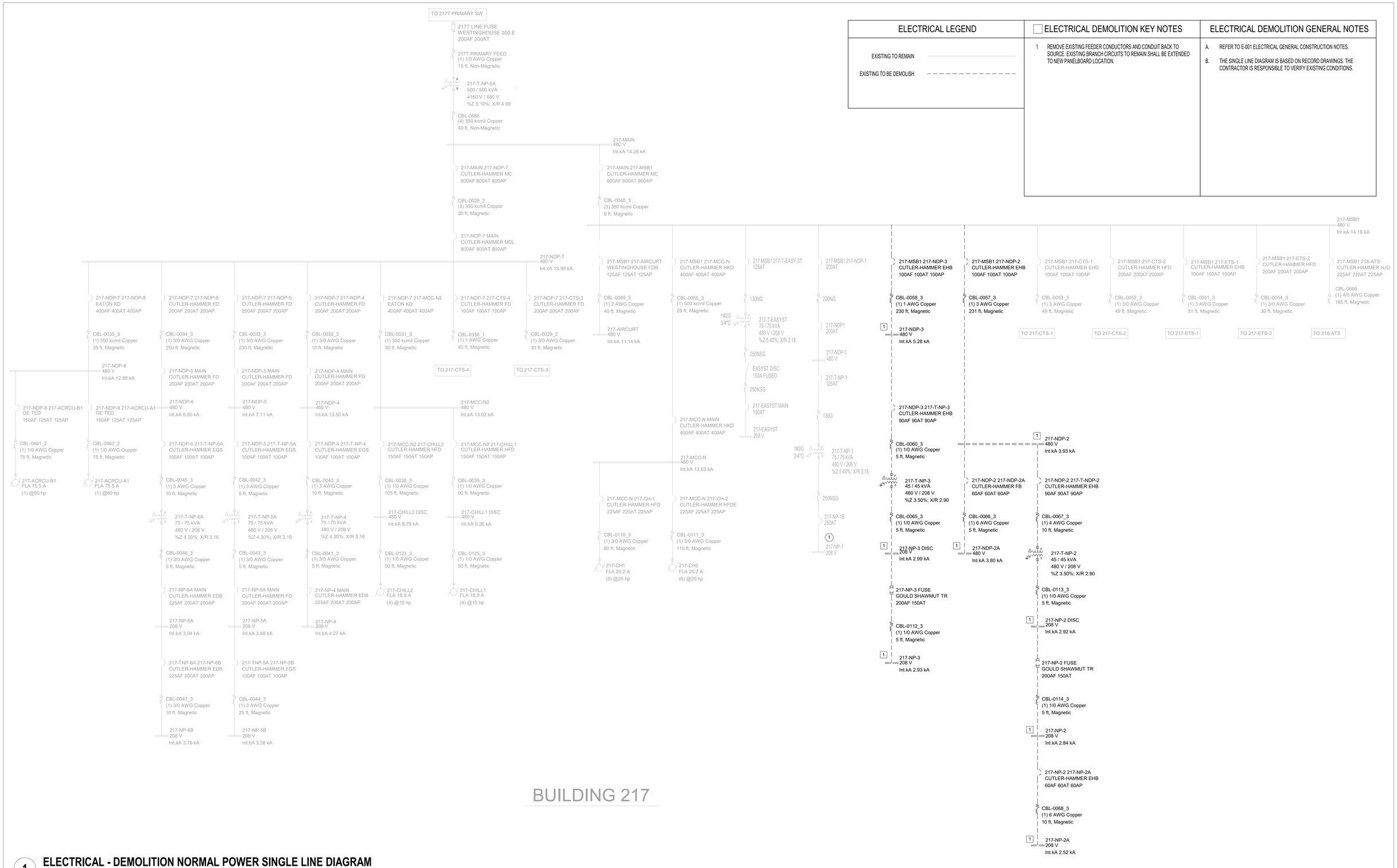
Project Number: 578-26-016

Building Number: 217

Drawing Number: E602

VA FORM 08-6231

ELECTRICAL LEGEND	ELECTRICAL DEMOLITION KEY NOTES	ELECTRICAL DEMOLITION GENERAL NOTES
EXISTING TO REMAIN EXISTING TO BE DEMOLISH	1 REMOVE EXISTING FEEDER CONDUCTORS AND CONDUIT BACK TO SOURCE. EXISTING BRANCH CIRCUITS TO REMAIN SHALL BE EXTENDED TO NEW PANELBOARD LOCATION.	A. REFER TO E-001 ELECTRICAL GENERAL CONSTRUCTION NOTES. B. THE SINGLE LINE DIAGRAM IS BASED ON RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS.



1 ELECTRICAL - DEMOLITION NORMAL POWER SINGLE LINE DIAGRAM

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DEMOLITION NORMAL POWER SINGLE LINE DIAGRAM

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: JC

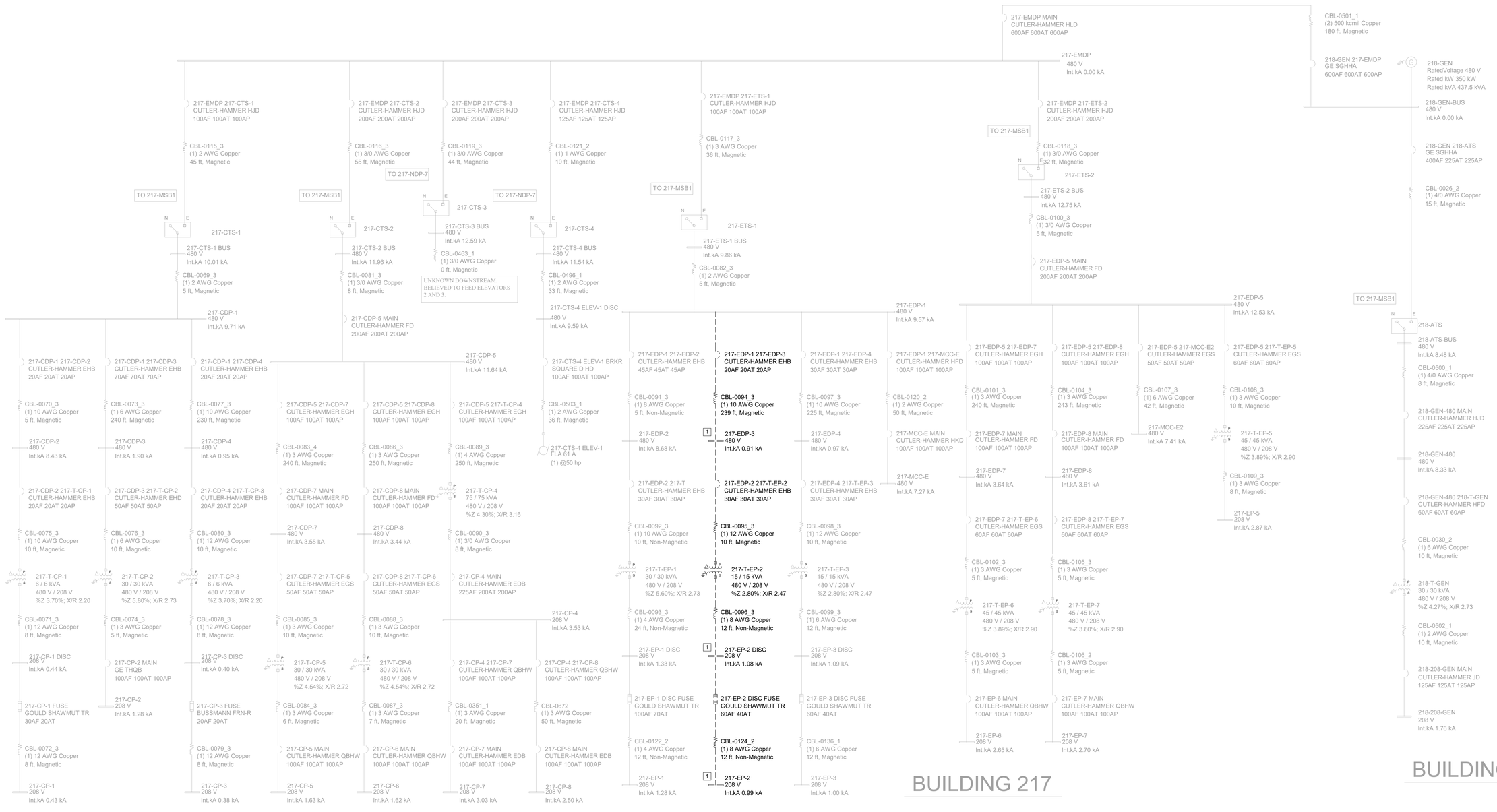
Project Number: 578-26-016

Building Number: 217

Drawing Number: E701

VA FORM 08-6231

ELECTRICAL LEGEND	☐ ELECTRICAL DEMOLITION KEY NOTES	ELECTRICAL DEMOLITION GENERAL NOTES
EXISTING TO REMAIN EXISTING TO BE DEMOLISH		A. REFER TO E-001 ELECTRICAL GENERAL CONSTRUCTION NOTES. B. THE SINGLE LINE DIAGRAM IS BASED ON RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS.



1 ELECTRICAL - DEMOLITION EMERGENCY POWER SINGLE LINE DIAGRAM

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
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VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DEMOLITION EMERGENCY POWER SINGLE LINE DIAGRAM

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: JC

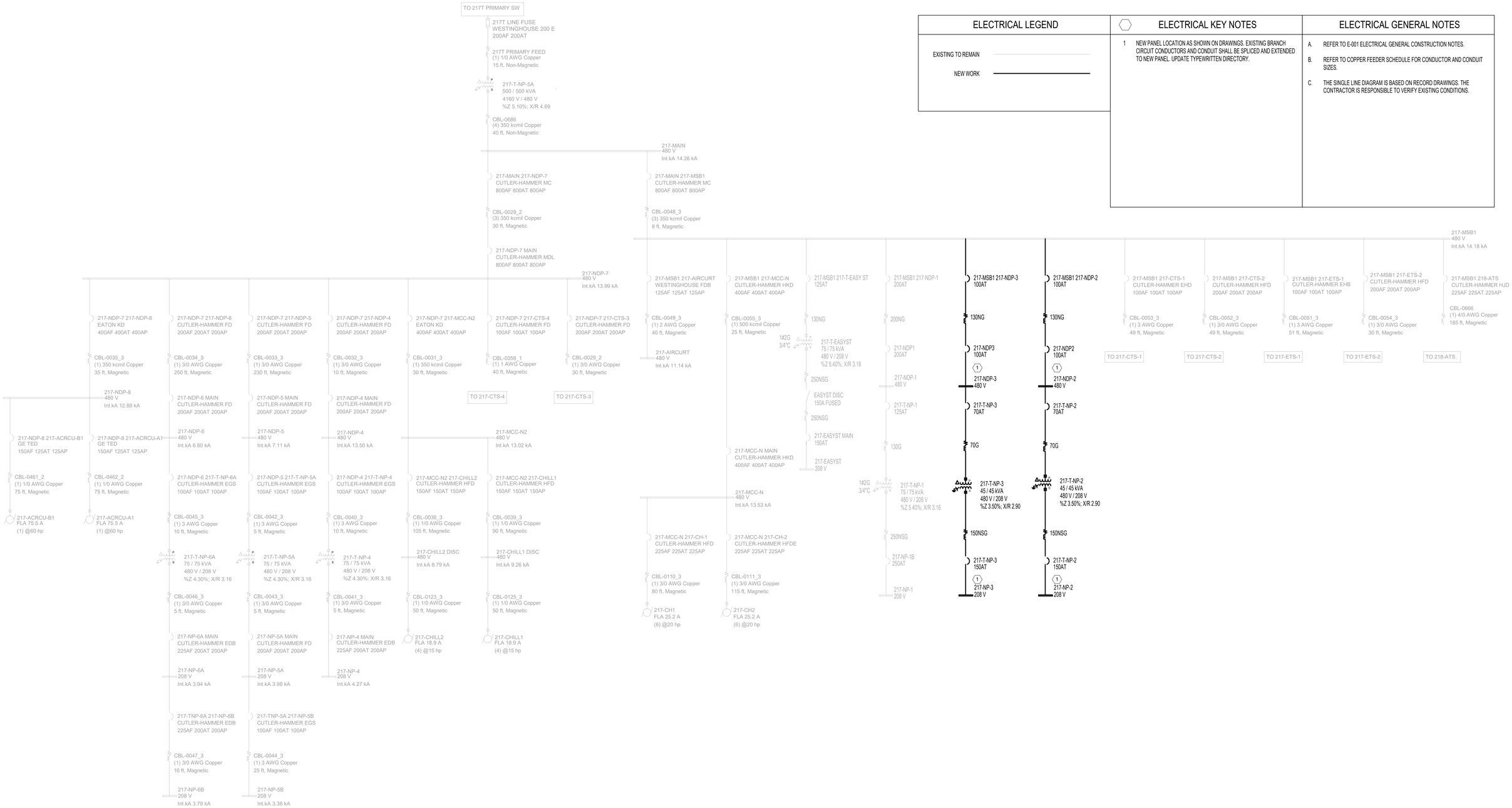
Project Number: 578-26-016

Building Number: 217

Drawing Number: E702

VA FORM 08-6231

ELECTRICAL LEGEND	ELECTRICAL KEY NOTES	ELECTRICAL GENERAL NOTES
EXISTING TO REMAIN NEW WORK	1 NEW PANEL LOCATION AS SHOWN ON DRAWINGS. EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUIT SHALL BE SPLICED AND EXTENDED TO NEW PANEL. UPDATE TYPEWRITTEN DIRECTORY.	A. REFER TO E-001 ELECTRICAL GENERAL CONSTRUCTION NOTES. B. REFER TO COPPER FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT SIZES. C. THE SINGLE LINE DIAGRAM IS BASED ON RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS.



BUILDING 217

1 ELECTRICAL - NEW WORK NORMAL POWER SINGLE LINE DIAGRAM

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - NEW WORK NORMAL POWER SINGLE LINE DIAGRAM

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: JC

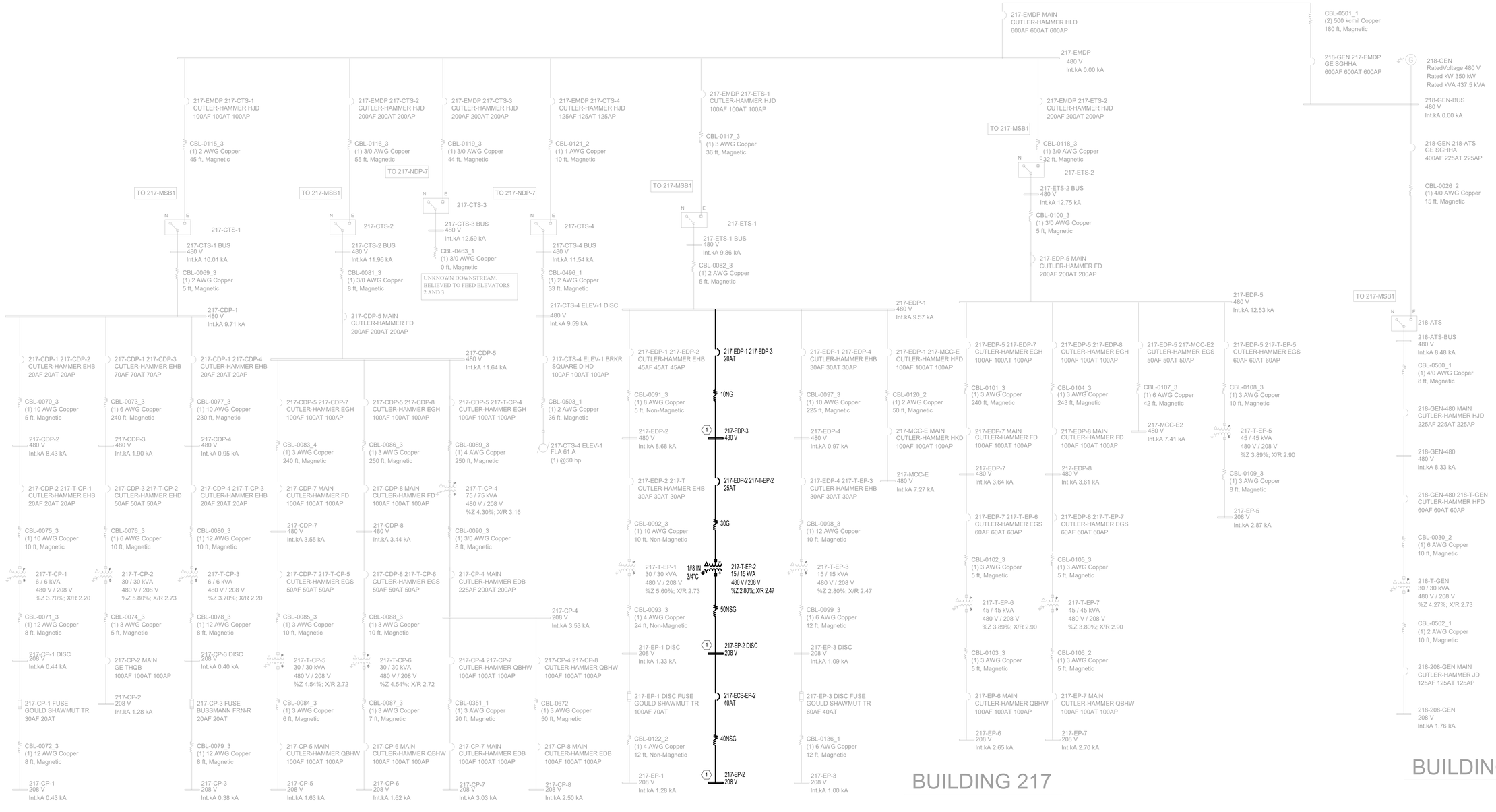
Project Number: 578-26-016

Building Number: 217

Drawing Number: E703

VA FORM 08-6231

ELECTRICAL LEGEND	ELECTRICAL KEY NOTES	ELECTRICAL GENERAL NOTES
EXISTING TO REMAIN NEW WORK		A. REFER TO E-001 ELECTRICAL GENERAL CONSTRUCTION NOTES. B. REFER TO COOPER FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT SIZES. C. THE SINGLE LINE DIAGRAM IS BASED ON RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS.



1 ELECTRICAL - NEW WORK EMERGENCY POWER SINGLE LINE DIAGRAM

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS	**06/10/2026**
100% CONSTRUCTION DOCUMENTS	**12/06/2024**
90% CONSTRUCTION DOCUMENT	**08/23/2024**
60% DESIGN DEVELOPMENT	**05/08/2024**
Revisions:	**Date:**

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Bancroft Project No. Z3-009

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VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - NEW WORK EMERGENCY POWER SINGLE LINE DIAGRAM

Approved: Project Director

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATIONS TO BUILDING 217

Location: EDWARD J. HINES JR. VAMC

Issue Date: 06/10/2026 | Checked: WG | Drawn: JC

Project Number: 578-26-016

Building Number: 217

Drawing Number: E704

VA FORM 08-6231

PANELBOARD NP-2

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1		DEMENTIA PATIENT RM RECEP	1	20 A	900	900					20 A	1	DEMENTIA PATIENT RM RECEP		2
3		DEMENTIA PATIENT RM RECEP	1	20 A			900	900			20 A	1	DEMENTIA PATIENT RM RECEP		4
5		DEMENTIA PATIENT RM RECEP	1	20 A					900	900	20 A	1	DEMENTIA PATIENT RM RECEP		6
7		DEMENTIA PATIENT RM RECEP	1	20 A	1080	1080					20 A	1	DEMENTIA PATIENT RM RECEP		8
9		DEMENTIA PATIENT RM RECEP	1	20 A			1260	1080			20 A	1	BATHROOM RECEPTACLE		10
11		DEMENTIA PATIENT RM RECEP	1	20 A					1080	1440	20 A	1	UTILITY RM,ELEC RECEPTACLE		12
13		DEMENTIA PATIENT RM RECEP	1	20 A	1080										14
15		DEMENTIA PATIENT RM RECEP	1	20 A			900	200			20 A	1	VAV POWER SUPPLY		16
17		LOUNGE RECEPTACLE	1	20 A					1080	1080	20 A	1	CORRIDOR RECEPTACLE		18
19		STORAGE RECEPTACLE	1	20 A	900	900					20 A	1	LOUNGE RECEPTACLE		20
21		CORRIDOR SCONCE LTG	1	20 A			143	1800			20 A	1	ELECTRIC FIREPLACE		22
23		LOUNGE MICROWAVE	1	20 A					180						24
25		DEMENTIA TLT RM LIGHTING	1	20 A	198										26
27								215			20 A	1	DEMENTIA TLT RM LIGHTING		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
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67															68
69															70
71															72
73															74
75															76
77															78
79															80
81															82
83															84
					7036		7398		6660						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 225 A
MAIN TYPE: 150 A MLO
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION: ELECTRICAL-2 A139-2

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 21.09 TOTAL (KVA): 17.41
TOTAL (AMPS): 58.6 TOTAL (AMPS): 48.3

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.
■ BRANCH CIRCUIT SHALL BE TIME CLOCK CONTROLLED.

PANELBOARD NP-3

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1		**HIGH FALL-RISK PATIENT RM**	**1**	**20 A**	900	360					**20 A**	**1**	**HIGH FALL-RISK PATIENT RM**		2
3		**HIGH FALL-RISK PATIENT RM**	**1**	**20 A**			1080	360			**20 A**	**1**	**TOILET 1C179**		4
5		**BARIATRIC RECEPTACLE**	**1**	**20 A**					1080	50	**20 A**	**1**	**VAV POWER SUPPLY**		6
7		**BARIATRICS NIGHT LIGHTING**	**1**	**20 A**	11										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
					1271		1440		1130						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 225 A
MAIN TYPE: 150 A MCB
MINIMUM A.I.C.: 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION: ELECTRICAL C143

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 3.84 TOTAL (KVA): 3.84
TOTAL (AMPS): 10.7 TOTAL (AMPS): 10.7

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD NP-4

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LOAD	--	2
3	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	4
5	--	(E) LOAD	1	20 A					0	0	20 A	1	(E) LOAD	--	6
7	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LOAD	--	8
9	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	10
11	--	(E) LOAD	1	20 A					0	0	20 A	1	(E) LOAD	--	12
13	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LOAD	--	14
15	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	16
17	--	(E) LOAD	1	20 A					0	0	20 A	1	(E) LOAD	--	18
19	--	(E) REC 2A-1,2A-19-2A13,2A-25	1	20 A	0	0					20 A	1	(E) LOAD	--	20
21	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	22
23	--	(E) REC PHARMA 2A12, NURSE	1	20 A					0	0	20 A	1	(E) LOAD	--	24
25	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LTG 2A-12,2A-10,2A-17,2A-33	--	26
27	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	28
29	--	(E) LOAD	1	20 A					0	0	20 A	1	(E) LOAD	--	30
31	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LOAD	--	32
33	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	34
35	R	R CONFERENCE ROOM 2A12B	1	20 A					720	1080	20 A	1	R CONFERENCE ROOM 2A12A	R	36
37	E	VAV POWER SUPPLY	1	20 A	100	900					20 A	1	DINING RM RECEPT	R	38
39	R	217-AHU-A1 RECEPTACLE	1	20 A			180	1440			20 A	1	DINING RM RECEPT	R	40
41	R	DINING RM RECEPT	1	20 A					720	600	20 A	1	DDC-1,2,3	C	42
					1000		1620		3120						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION: ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): 100 VA X 100% 100 VA
RECEPT BASE LOAD (R): 5040 X 100% 5040 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 5.14 TOTAL (KVA): 5.14
TOTAL (AMPS): 14.3 TOTAL (AMPS): 14.3

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD 217-EDP-1

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1															2
3															4
5															6
7						0					45 A	3	217-EDP-2	Other; Sp...	8
9								0							10
11										0					12
13															14
15															16
17															18
19															20
					0		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MLO
MINIMUM A.I.C.: (VIF) 14k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM: 217-EDP-1
LOCATION: ELECTRICAL...

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 0 TOTAL (KVA): 0
TOTAL (AMPS): 0 TOTAL (AMPS): 0

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: ALUMINUM
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD EDP-2

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	--	(E) LTG HALL	1	20 A	0										2
3								0						Other	4
5										0	30 A	3	217-T-EP-1		6
7						0									8
					0		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 14k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM: 217-EDP-1
LOCATION: ELECTRICAL...

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 0 TOTAL (KVA): 0
TOTAL (AMPS): 0 TOTAL (AMPS): 0

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: ALUMINUM
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD 217-EDP-4

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1															2
3								180							4
5										0	30 A	3	217-T-EP-3	R; NC	6
7						0									8
					0		180		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MLO
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION: ELECTRICAL C143

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): 0 VA X 100% 0 VA
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 180 X 100% 180 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 0.18 TOTAL (KVA): 0.18
TOTAL (AMPS): 0.2 TOTAL (AMPS): 0.2

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: ALUMINUM
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND A/C RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD EDP-5

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	Other	(E) 217-EDP-7	3	20 A	0	0					100 A	3	(E) SPARE	--	2
3							0	0							4
5									0	0					6
7	Equipment; R	(E) 217-EDP-8	3	20 A	720	867					60 A	3	(E) 217-T-EP-5	Spare; M; E	8
9							180	0							10
11									0	0					12
13	Other	(E) MCC-E2	3	50 A	0	5820					**40 A**	**3**	**ΔAHU-SF**	**MH**	14
15							0	5820							16
17									0	5820					18
19	--	(E) 217-AHU-B1 EAST ATRIUM ROOF	3	20 A	0	0					20 A	3	(E) 217-AHU-B2 EAST ATRIUM ROOF	--	20
21							0	0							22
23									0	0					24
25					3048	100					20 A	1	*** DINING RM LIGHTING**	**L**	26
27	**M**	**ΔAHU-RF**	**3**	**20 A**			3048	3300			**20 A**	**1**	**ΔSUH-1**	**C**	28
29									3048	3300	**20 A**	**1**	**ΔSUH-2**	**C**	30
					10555		12348		12168						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 200 A MCB
MINIMUM A.I.C.: (VIF) 35k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION: ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): 6600 VA X 125% 8250 VA
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): 3 VA X 100% 3 VA
RECEPT BASE LOAD (R): 900 X 100% 900 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): 100 VA X 100% 124 VA
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): 17459 VA X 125% 21824 VA
MOTORS, REMAINING LOAD (M): 10009 VA X 100% 10009 VA
TOTAL (KVA): 35.07 TOTAL (KVA): 41.11
TOTAL (AMPS): 42.2 TOTAL (AMPS): 49.4

FEEDER DEMAND LOAD

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND A/C RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

100% CONSTRUCTION DOCUMENTS	**06/10/2026**
100% CONSTRUCTION DOCUMENTS	**12/06/2024**
90% CONSTRUCTION DOCUMENT	**08/23/2024**
60% DESIGN DEVELOPMENT	**05/08/2024**
Revisions:	**Date:**

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Bancroft Project No. 23-009

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PANEL SCHEDULES
Approved: Project Director
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATIONS TO BUILDING 217
Location: EDWARD J. HINES JR. VAMC
Issue Date: 06/10/2026
Checked: WG
Drawn: BX
Project Number: 578-26-016
Building Number: 217
Drawing Number: E802

VA FORM 08-6231

PANELBOARD 217-EDP-8

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	Equi				720										2
3	pme	217-T-EP-7	3	60 A			180								4
5	nt; R								0						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
					720		180		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELEC C243

BRANCH CIRCUIT CONNECTED LOAD			FEEDER DEMAND LOAD	
CONTINUOUS LOAD (C):		X 125%		
NON-CONTINUOUS LOAD (NC):		X 100%		
EQUIPMENT (E):		X 100%		
RECEPT BASE LOAD (R):	900	X 100%	900 VA	
RECEPT DEMAND LOAD (R):	0	X 50%	0 VA	
LIGHTING LOAD (L):		X 100%		
TRANSFORMER (T):		X 100%		
MOTORS, HIGHEST LOAD (MH):		X 125%		
MOTORS, REMAINING LOAD (M):		X 100%		
TOTAL (KVA):	0.9		0.9	
TOTAL (AMPS):	1.1		1.1	

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD 217-EMDP

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1						0					50 A	1	(E) SPARE	--	2
3							0	0							4
5	--	(E) 217-CTS-3	3	20 A					0	0	125 A	3	217-CTS-4/ELEV-1	Other	6
7					0	0									8
9							0	0							10
11	Other	217-ETS-1	3	100 A					0	0	100 A	3	217-CTS-1	Other	12
13					0	0									14
15							0	0							16
17	--	(E) SPARE	3	250 A					0	0	250 A	3	(E) SPARE	--	18
19					0	0									20
21							0	0							22
23	--	(E) 217-ETS-2	3	20 A					0	0	20 A	3	(E) 217-CTS-2	--	24
25					0	0									26
					0		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 600 A
MAIN TYPE: 600 A MCB
MINIMUM A.I.C.: (VIF) 65k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM: 218-GEN
LOCATION: ELECTRICAL...

BRANCH CIRCUIT CONNECTED LOAD			FEEDER DEMAND LOAD	
CONTINUOUS LOAD (C):		X 125%		
NON-CONTINUOUS LOAD (NC):		X 100%		
EQUIPMENT (E):		X 100%		
RECEPT BASE LOAD (R):	0	X 100%	0 VA	
RECEPT DEMAND LOAD (R):	0	X 50%	0 VA	
LIGHTING LOAD (L):		X 100%		
TRANSFORMER (T):		X 100%		
MOTORS, HIGHEST LOAD (MH):		X 125%		
MOTORS, REMAINING LOAD (M):		X 100%		
TOTAL (KVA):	0		0	
TOTAL (AMPS):	0		0	

OPTIONS:
NEUTRAL BUS:
BUS MATERIAL:

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD EDP-3

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1		LP-NP-2	1	20 A	100	1482									2
3								752			50 A	3	217-T-EP-2		4
5										360					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
					1582		752		360						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 20 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL-2 A139-2

BRANCH CIRCUIT CONNECTED LOAD			FEEDER DEMAND LOAD	
CONTINUOUS LOAD (C):		X 125%		
NON-CONTINUOUS LOAD (NC):		X 100%		
EQUIPMENT (E):		X 100%		
RECEPT BASE LOAD (R):	0	X 100%	0 VA	
RECEPT DEMAND LOAD (R):	0	X 50%	0 VA	
LIGHTING LOAD (L):		X 100%		
TRANSFORMER (T):		X 100%		
MOTORS, HIGHEST LOAD (MH):		X 125%		
MOTORS, REMAINING LOAD (M):		X 100%		
TOTAL (KVA):	2.59		2.61	
TOTAL (AMPS):	3.1		3.1	

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD EP-5

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	--	(E) RECEP 2A-3 2A-UH5-6	1	20 A	0	0					20 A	1	(E) NURSE CALL	--	2
3	--	(E) RECEP 2A-3 2A-UH5-6	1	20 A			0	0			20 A	1	(E) AHU CTRL	--	4
5	--	(E) HEATERS	1	20 A					0	0	20 A	1	(E) MATV SYSTEM	--	6
7	--	(E) KEYPAD	1	20 A	0	0					20 A	1	(E) FAN 2A-SF-4	--	8
9	--	(E) SD	1	20 A			0	0			20 A	1	(E) FAN 2A-SF-3	--	10
11	--	(E) LTG	1	20 A					0	0	20 A	1	(E) EXIT SIGN	--	12
13	**M**	**Δ GFS-1**	**1**	**15 A**	864	3					**20 A**	**1**	**HUM-1**	**E**	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
					867		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k.
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD			FEEDER DEMAND LOAD	
CONTINUOUS LOAD (C):		X 125%		
NON-CONTINUOUS LOAD (NC):		X 100%		
EQUIPMENT (E):	3 VA	X 100%	3 VA	
RECEPT BASE LOAD (R):	0	X 100%	0 VA	
RECEPT DEMAND LOAD (R):	0	X 50%	0 VA	
LIGHTING LOAD (L):		X 100%		
TRANSFORMER (T):		X 100%		
MOTORS, HIGHEST LOAD (MH):		X 125%		
MOTORS, REMAINING LOAD (M):	864 VA	X 100%	864 VA	
TOTAL (KVA):	0.87		0.87	
TOTAL (AMPS):	2.4		2.4	

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD NDP-2

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1					7036	353					20 A	1	DEMENTIA PATIENT RM LTG	L	2
3	L; C; R; E	217-T-NP-2	3	90 A			7398	565			20 A	1	LOUNGE LIGHTING	L	4
5									6660	1184	20 A	1	LIGHTING LOUNGE 1B80	L	6
7	L	UTILITY, STAFF WORK LTG	1	20 A	344										8
9	L	DEMENTIA PATIENT RM LTG	1	20 A			421								10
11	L	DEMENTIA CORRIDOR LTG	1	20 A					857						12
13															14
15															16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
					7733		8384		8701						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: 14k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM: 217-MSB1
LOCATION: ELECTRICAL-2 A139-2

BRANCH CIRCUIT CONNECTED LOAD			FEEDER DEMAND LOAD	
CONTINUOUS LOAD (C):	1800 VA	X 125%	2250 VA	
NON-CONTINUOUS LOAD (NC):		X 100%		
EQUIPMENT (E):	200 VA	X 100%	200 VA	
RECEPT BASE LOAD (R):	10000	X 100%	10000 VA	
RECEPT DEMAND LOAD (R):	8540	X 50%	4270 VA	
LIGHTING LOAD (L):	4278 VA	X 100%	5348 VA	
TRANSFORMER (T):		X 100%		
MOTORS, HIGHEST LOAD (MH):		X 125%		
MOTORS, REMAINING LOAD (M):		X 100%		
TOTAL (KVA):	24.82		22.07	
TOTAL (AMPS):	29.9		26.5	

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD EP-2

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	R	BARIATRIC RECEPTACLE	1	20 A	540	720					20 A	1	BARIATRIC RECEPTACLE	R	2
3	R	BARIATRIC RECEPTACLE	1	20 A			540	180			20 A	1	LOUNGE FRIDGE	R	4
5	R	DEMENTIA PATIENT RM RECEP	1	20 A					360	0	20 A	1	BARIATRIC PATIENT LIFT	NC	6
7	L	■ DEMENTIA NIGHT LIGHT	1	20 A	42	180					20 A	1	LOUNGE ICE MAKER	R	8
9	L	■ DEMENTIA NIGHT LIGHT	1	20 A			32								10
11															12
13															14
15															16
17															18
19															20
					1482		752		360						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MLO
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL-2 A139-2

BRANCH CIRCUIT CONNECTED LOAD			FEEDER DEMAND LOAD	
CONTINUOUS LOAD (C):		X 125%		
NON-CONTINUOUS LOAD (NC):	0 VA	X 100%	0 VA	
EQUIPMENT (E):		X 100%		
RECEPT BASE LOAD (R):	2520	X 100%	2520 VA	
RECEPT DEMAND LOAD (R):	0	X 50%	0 VA	
LIGHTING LOAD (L):	74 VA	X 100%	93 VA	
TRANSFORMER (T):		X 100%		
MOTORS, HIGHEST LOAD (MH):		X 125%		
MOTORS, REMAINING LOAD (M):		X 100%		
TOTAL (KVA):	2.59		2.61	
TOTAL (AMPS):	7.2		7.3	

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

Revisions:	Date:
100% CONSTRUCTION DOCUMENTS	06/10/2026
ADDENDUM #2	06/10/2025
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024

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Office of Construction and Facilities Management
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Drawing Title: ELECTRICAL - PANEL SCHEDULES
Approved: Project Director
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATIONS TO BUILDING 217
Location: EDWARD J. HINES JR. VAMC
Issue Date: 06/10/2026
Checked: WG
Drawn: BX
Project Number: 578-26-016
Building Number: 217
Drawing Number: E803

VA FORM 08-6231

Switchboard: 217-MSB

Location: ELECTRICAL-1 A139-1
Supply From:
Mounting: FLOOR
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30k
Mains Type: MCB
Mains Rating: 1600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	217-MSB1	3	800 A	800 A	56665 VA	
2	217-NDP-7	3	400 A	800 A	52065 VA	
3						
				Total Conn. Load:	108130 VA	
				Total Amps:	130 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	0 VA	0.00%	0 VA		
Motor	69 VA	125.00%	86 VA	**Total Conn. Load:**	108130 VA
L	10458 VA	125.00%	13072 VA	**Total Est. Demand:**	90063 VA
C	1800 VA	125.00%	2250 VA	**Total Conn.:**	130 A
R	52297 VA	59.56%	31149 VA	**Total Est. Demand:**	108 A
M	5016 VA	100.00%	5016 VA		
E	38490 VA	100.00%	38490 VA		

Notes:

Switchboard: 217-MSB1

Location: ELECTRICAL-1 A139-1
Supply From: 217-MSB
Mounting: FLOOR
Enclosure: NEMA TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30k
Mains Type: MCB
Mains Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	(E) 217-AIRCURT	3	400 A	125 A	0 VA	
2	(E) 217-CTS-1	3	400 A	100 A	0 VA	
3	**217-NDP-2**	**3**	**400 A**	**100 A**	24818 VA	
4	(E) ETS-2	1	400 A	200 A	0 VA	
5	T-EASYST	3	400 A	125 A	6658 VA	
6	**217-NDP-3**	**3**	**400 A**	**100 A**	3841 VA	
7	(E) CTS-2	1	400 A	200 A	0 VA	
8	**217-ETS-1**	**3**	**400 A**	**100 A**	0 VA	
9	NDP-1	3	400 A	200 A	21349 VA	
10	(E) ATS-GEN-480	1	400 A	250 A	0 VA	
11	(E) MCC-N	3	400 A	400 A	0 VA	
12	(E) SPARE	1	400 A	20 A	0 VA	
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	56665 VA	
				Total Amps:	68 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	0 VA	0.00%	0 VA		
Motor	69 VA	125.00%	86 VA	**Total Conn. Load:**	56665 VA
L	9249 VA	125.00%	11561 VA	**Total Est. Demand:**	41896 VA
C	1800 VA	125.00%	2250 VA	**Total Conn.:**	68 A
R	45097 VA	61.09%	27549 VA	**Total Est. Demand:**	50 A
E	450 VA	100.00%	450 VA		

Notes:

PANELBOARD 217-NDP-6

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1						2160									2
3	R	217-T-NP-6A	3	100 A			0								4
5									0						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
					2160		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION
ELEC C243

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C):
NON-CONTINUOUS LOAD (NC):
EQUIPMENT (E):
RECEPT BASE LOAD (R): 2160
RECEPT DEMAND LOAD (R): 0
LIGHTING LOAD (L):
TRANSFORMER (T):
MOTORS, HIGHEST LOAD (MH):
MOTORS, REMAINING LOAD (M):
TOTAL (KVA): 2.16
TOTAL (AMPS): 2.6

FEEDER DEMAND LOAD
X 125%
X 100%
X 100%
X 100% 2160 VA
X 50% 0 VA
X 100%
X 100%
X 125%
X 100%
TOTAL (KVA): 2.16
TOTAL (AMPS): 2.6

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD NDP-3

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1															2
3															4
5															6
7															8
9															10
11															12
13															14
15															16
17															18
19															20
21															22
23															24
25					1271										26
27		**217-T-NP-3**	**3**	**90 A**			1440								28
29									1130						30
					1271		1440		1130						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: 14k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION
ELECTRICAL C143

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C):
NON-CONTINUOUS LOAD (NC):
EQUIPMENT (E):
RECEPT BASE LOAD (R): 0
RECEPT DEMAND LOAD (R): 0
LIGHTING LOAD (L):
TRANSFORMER (T):
MOTORS, HIGHEST LOAD (MH):
MOTORS, REMAINING LOAD (M):
TOTAL (KVA): 3.84
TOTAL (AMPS): 4.6

FEEDER DEMAND LOAD
X 125%
X 100%
X 100%
X 100% 0 VA
X 50% 0 VA
X 100%
X 100%
X 125%
X 100%
TOTAL (KVA): 3.84
TOTAL (AMPS): 4.6

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD 217-NDP-5

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1						1920									2
3	Spare, M	T-NP-5A	3	100 A				1920							4
5										1176					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
					1920		1920		1176						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
PANELBOARD LOCATION
ELECTRICAL B243

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C):
NON-CONTINUOUS LOAD (NC):
EQUIPMENT (E):
RECEPT BASE LOAD (R): 0
RECEPT DEMAND LOAD (R): 0
LIGHTING LOAD (L):
TRANSFORMER (T):
MOTORS, HIGHEST LOAD (MH):
MOTORS, REMAINING LOAD (M): 5016 VA
TOTAL (KVA): 5.02
TOTAL (AMPS): 6

FEEDER DEMAND LOAD
X 125%
X 100%
X 100%
X 100% 0 VA
X 50% 0 VA
X 100%
X 100%
X 125%
X 100% 5016 VA
TOTAL (KVA): 5.02
TOTAL (AMPS): 6

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD 217-NDP-8

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1					0	0									2
3	--	(E) SPARE	3	30 A			0	0			20 A	3	(E) SPARE	--	4
5									0	0					6
7					0	0									8
9	--	(E) LOAD	3	20 A			0	0			20 A	3	(E) SPARE	--	10
11									0	0					12
13					0	0									14
15	--	(E) LOAD	3	20 A			0	0			20 A	3	(E) SPARE	--	16
17									0	0					18
19					0	0									20
21	--	(E) LOAD	3	20 A			0	0			20 A	3	(E) SPARE	--	22
23									0	0					24
25					0	12647									26
27	--	(E) LOAD	3	125 A			0	12647			**150 A**	**3**	**217-ACCU-1**	**E**	28
29									0	12647					30
31					0										32
33	--	(E) LOAD	3	125 A			0								34
35									0						36
					12647		12647		12647						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 400A
MAIN TYPE: 400 A MLO
MINIMUM A.I.C.: (VIF) 18k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM: 217-NDP-7
LOCATION: ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C):
NON-CONTINUOUS LOAD (NC):
EQUIPMENT (E): 37940 VA
RECEPT BASE LOAD (R): 0
RECEPT DEMAND LOAD (R): 0
LIGHTING LOAD (L):
TRANSFORMER (T):
MOTORS, HIGHEST LOAD (MH):
MOTORS, REMAINING LOAD (M):
TOTAL (KVA): 37.94
TOTAL (AMPS): 45.6

FEEDER DEMAND LOAD
X 125%
X 100%
X 100% 37940 VA
X 100% 0 VA
X 50% 0 VA
X 100%
X 100%
X 125%
X 100%
TOTAL (KVA): 37.94
TOTAL (AMPS): 45.6

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

100% CONSTRUCTION DOCUMENTS	**06/10/2026**
100% CONSTRUCTION DOCUMENTS	**12/06/2024**
90% CONSTRUCTION DOCUMENT	**08/23/2024**
60% DESIGN DEVELOPMENT	**05/08/2024**
Revisions:	**Date:**

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Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL - PANEL SCHEDULES
Approved: Project Director
Phase 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title RENOVATIONS TO BUILDING 217
Location EDWARD J. HINES JR. VAMC
Issue Date 06/10/2026
Checked WG
Drawn BX
Project Number 578-26-016
Building Number 217
Drawing Number E801

VA FORM 08-6231

PANELBOARD 217-CDP-4

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	--	(E) LTG EXAM TREAT LC-39	1	20 A	0	0					20 A	1	(E) IC-35 BATH	--	2
3	--	(E) LTG OUTLET RM 1C142	1	20 A			0	0							4
5	--	(E) SPARE	1	20 A					0	0	50 A	3	217-T-CP-3	T	6
7	--	(E) SPACE	1	--	--	0									8
					0		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MLO
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL C143

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 0
TOTAL (AMPS): 0

FEEDER DEMAND LOAD
TOTAL (KVA): 0
TOTAL (AMPS): 0

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: ALUMINUM
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD NP-5B

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LOAD	--	2
3	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	4
5	--	(E) LOAD	1	20 A					0	0	20 A	1	(E) LOAD	--	6
7	--	(E) LOAD	1	20 A	0	0					20 A	1	(E) LOAD	--	8
9	--	(E) LOAD	1	20 A			0	0			20 A	1	(E) LOAD	--	10
11	--	(E) LOAD	1	20 A					0	0	20 A	1	(E) LOAD	--	12
13	**M**	**EF-08**	**1**	**30 A**	1920	0					20 A	1	(E) LOAD	--	14
15	**M**	**EF-09**	**1**	**30 A**			1920	0			20 A	1	(E) LOAD	--	16
17	**M**	**EF-10**	**1**	**20 A**					1176						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
					1920		1920		1176						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 250A
MAIN TYPE: 200 A MLO
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL B243

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): 5016 VA X 100% 5016 VA
TOTAL (KVA): 5.02
TOTAL (AMPS): 13.9

FEEDER DEMAND LOAD
TOTAL (KVA): 5.02
TOTAL (AMPS): 13.9

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD NDP-4

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	Spar				1000	0					20 A	1	(E) LTG	--	2
3	e; C;	217-T-NP-4	3	100 A			1620	0			20 A	1	(E) LTG	--	4
5	R; E								3120	0	20 A	1	(E) LTG	--	6
7	--	(E) SPARE	1	20 A	0	0					20 A	1	(E) LTG	--	8
9	--	(E) SPARE	1	20 A			0	0			20 A	1	(E) LTG	--	10
11	--	(E) SPARE	1	20 A					0	0	20 A	1	(E) LTG	--	12
13	--	(E) SPARE	1	20 A	0	0					20 A	1	(E) LTG	--	14
15	--	(E) SPARE	1	20 A			0	1028			**20 A**	**1**	*** DINING RM LIGHTING**	**L**	16
17	--	(E) SPARE	1	20 A					0	181	**20 A**	**1**	**CONFERENCE RM LIGHTING**	**L**	18
19	--	(E) SPARE	1	20 A	0	0					20 A	1	(E) LTG	--	20
21	--	(E) SPARE	1	20 A			0	0			20 A	1	(E) SPARE	--	22
23	--	(E) SPARE	1	20 A					0	0	20 A	1	(E) SPARE	--	24
25	--	(E) SPARE	1	20 A	0	0					20 A	1	(E) SPARE	--	26
27	--	(E) SPARE	1	20 A			0	0			20 A	1	(E) SPARE	--	28
29	--	(E) SPARE	1	20 A					0	0	20 A	1	(E) SPARE	--	30
31	--	(E) SPARE	1	20 A	0	0					20 A	1	(E) SPARE	--	32
33	--	(E) SPARE	1	20 A			0	0			20 A	1	(E) SPARE	--	34
35	--	(E) SPARE	1	20 A					0	0	20 A	1	(E) SPARE	--	36
37	--	(E) SPARE	1	20 A	0	0					20 A	1	(E) SPARE	--	38
39	--	(E) SPARE	1	20 A			0	0			20 A	1	(E) SPARE	--	40
41	--	(E) SPARE	1	20 A					0	0	20 A	1	(E) SPARE	--	42
					1000		2648		3301						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 200 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): 100 VA X 100% 100 VA
RECEPT BASE LOAD (R): 5040 X 100% 5040 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): 1209 VA X 100% 1511 VA
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 6.35
TOTAL (AMPS): 7.6

FEEDER DEMAND LOAD
TOTAL (KVA): 6.65
TOTAL (AMPS): 8

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD (T)217-EDP-5

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1					0	0									2
3	--	(E) 217-EDP-7	3	20 A			0	0			100 A	3	(E) SPARE	--	4
5									0	0					6
7					0	0									8
9	--	(E) 217-EDP-8	3	20 A			0	0			60 A	3	(E) 217-T-EP-5	--	10
11									0	0					12
13					0	0							(E) 217-AHU-A1		14
15	--	(E) MCC-E2	3	50 A			0	0			50 A	3	EAST ST / SOUTH	--	16
17									0	0			ROOF		18
19		(E) 217-AHU-B1			0	0							(E) 217-AHU-B2		20
21	--	EAST ATRIUM	3	20 A			0	0			20 A	3	EAST ATRIUM	--	22
23		ROOF							0	0			ROOF		24
25	--	SPACE	1	--	--	0					20 A	1	(E) LOAD	--	26
27	--	SPACE	1	--			--	--			--	1	SPACE	--	28
29	--	SPACE	1	--					--	--	--	1	SPACE	--	30
					0		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 200 A MCB
MINIMUM A.I.C.: (VIF) 35k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM:
LOCATION: ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 0
TOTAL (AMPS): 0

FEEDER DEMAND LOAD
TOTAL (KVA): 0
TOTAL (AMPS): 0

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD 217-NDP-7

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1						1000									
3								2648			200 A	3	217-NDP-4	Spar e; L; C;...	4
5										3301					6
7					1920	2160									8
9	Spar e; M	217-NDP-5	3	100 A			1920	0			200 A	3	217-NDP-6	R	10
11									1176	0					12
13					0										14
15	Othe r	217-CTS-4/ELEV-1	3	20 A			0								16
17									0						18
19					12647										20
21								12647			400 A	3	217-NDP-8	Spar e; E	22
23										12647					24
25						0									26
27								0			400 A	3	MCC-N2	Othe r	28
29										0					30
					17727		17215		17123						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELECTRICAL 2A03

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): 38040 VA X 100% 38040 VA
RECEPT BASE LOAD (R): 7200 X 100% 7200 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): 1209 VA X 100% 1511 VA
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): 5016 VA X 100% 5016 VA
TOTAL (KVA): 51.46
TOTAL (AMPS): 61.9

FEEDER DEMAND LOAD
TOTAL (KVA): 51.77
TOTAL (AMPS): 62.3

OPTIONS:
NEUTRAL BUS:
BUS MATERIAL:

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD CDP-1

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1					0										2
3	Othe r	217-CDP-2	3	20 A			0								4
5									0						6
7					0										8
9	--	(E) CDP-3	3	70 A			0								10
11									0						12
13					0										14
15	--	(E) CDP-4	3	20 A			0								16
17									0						18
19															20
					0		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 480/277 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 100 A
MAIN TYPE: 100 A MLO
MINIMUM A.I.C.: (VIF) 14k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor
SUPPLY FROM:
LOCATION: ELECTRICAL...

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 0 X 100% 0 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 0
TOTAL (AMPS): 0

FEEDER DEMAND LOAD
TOTAL (KVA): 0
TOTAL (AMPS): 0

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: ALUMINUM
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

PANELBOARD NP-6A

#	TYPE	DESCRIPTION	# OF POLES	CB RATING	A		B		C		CB RATING	# OF POLES	DESCRIPTION	TYPE	#
1	**R**	**HIGH FALL-RISK RECEPTACLE**	**1**	**20 A**	1080	1080					**20 A**	**1**	**HIGH FALL-RISK RECEPTACLE**	**R**	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
					2160		0		0						
					ØA		ØB		ØC						

PANELBOARD INFORMATION
VOLTAGE: 120/208 Wye
PHASE, WIRES: 3PH, 4W
BUS AMPACITY: 200 A
MAIN TYPE: 100 A MCB
MINIMUM A.I.C.: (VIF) 10k
MOUNTING: SURFACE
ENCLOSURE: NEMA 1 Indoor

PANELBOARD LOCATION
ELEC C243

BRANCH CIRCUIT CONNECTED LOAD
CONTINUOUS LOAD (C): X 125%
NON-CONTINUOUS LOAD (NC): X 100%
EQUIPMENT (E): X 100%
RECEPT BASE LOAD (R): 2160 X 100% 2160 VA
RECEPT DEMAND LOAD (R): 0 X 50% 0 VA
LIGHTING LOAD (L): X 100%
TRANSFORMER (T): X 100%
MOTORS, HIGHEST LOAD (MH): X 125%
MOTORS, REMAINING LOAD (M): X 100%
TOTAL (KVA): 2.16
TOTAL (AMPS): 6

FEEDER DEMAND LOAD
TOTAL (KVA): 2.16
TOTAL (AMPS): 6

OPTIONS:
NEUTRAL BUS: 100%
BUS MATERIAL: COPPER TIN PLATED
GROUND BUS

NOTES:
1.) LIGHT TONED BRANCH CIRCUITS ARE EXISTING TO REMAIN.

FOOT NOTES:
* UTILIZE EXISTING CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK.
Δ PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. UTILIZE SPACE MADE AVIALABLE FROM DEMOLITION WORK.

Revisions:	Date:
100% CONSTRUCTION DOCUMENTS	06/10/2026
100% CONSTRUCTION DOCUMENTS	12/06/2024
90% CONSTRUCTION DOCUMENT	08/23/2024
60% DESIGN DEVELOPMENT	05/08/2024

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Bancroft Project No. 23-009

STAMP

Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PANEL SCHEDULES
Approved: Project Director
Phase: 100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATIONS TO BUILDING 217
Location: EDWARD J. HINES JR. VAMC
Issue Date: 06/10/2026
Checked: WG
Drawn: BX
Project Number: 578-26-016
Building Number: 217
Drawing Number: E804

VA FORM 08-6231