ABBREVIATIONS

AMP./A.	AMPERE
AC.	ALTERNATING CURRENT
A/C.	AIR CONDITION
A.F.F.	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
A.I.C.	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH.	ARCHITECTURAL
A.R.F.	ABOVE RAISED FLOOR
ASY.	ASYMMETRICAL
A.T.C.	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
B.F.S.	BELOW FINISHED CEILING
BLDG.	BUILDING
BKR.	BREAKER
BMS	BUILDING MANAGEMENT SYSTEM
BSMT.	BASEMENT
.C.	CENTIGRADE DEGREES
CLG.	CEILING
CKT.	CIRCUIT
CB	CIRCUIT BREAKER
CW	CLOCKWISE
COL.	COLUMN
CONC.	CONCRETE
CCTV	CLOSED CIRCUIT TELEVISION
C.	CONDUIT
CONDR.	CONDUCTOR
CU. FT.	CUBIC FEET
CONTR.	CONTRACTOR
CU.	COPPER
CONST.	CONSTRUCTION
COAX.	COAXIAL
COORD.	COORDINATE
CONT.	CONTINUATION
CMU	CONCRETE MASONRY UNIT
CR	CRITICAL
C.T.	CURRENT TRANSFORMER
DEMO	DEMOLITION
DISC.	DISCONNECT SWITCH
DIV.	DIVISION
DN.	DOWN
EA.	EACH
E.F.	EXHAUST FAN
ELEC. CL.	ELECTRICAL CLOSET
ELEC.	ELECTRICAL
E.C.	ELECTRICAL CONTRACTOR
ELEV/EL.	ELEVATION/ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ENT.	ENTRANCE
ENCL.	ENCLOSURE
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
E.W.	EACH WAY
EQUIP.	EXTERNAL/EXTERIOR
EPO	EMERGENCY POWER OFF
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
.F.	FAHRENHEIT DEGREES
FC	FOOTCANDLE
FT.	FEET
F.E.	FIRE EXTINGUISHER
FDN.	FOUNDATION
FIN.	FINISH/FINISHED
FIXT.	FIXTURE
FLEX.	FLEXIBLE
FL.	FLOOR
FLA	FULL LOAD AMPERES
FLUOR.	FLUORESCENT
GA.	GAGE/GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
GND.	GROUND
G.F.A.	GROUND FAULT INTERRUPTER
G.R.S.C.	GALVANIZED RIGID STEEL CONDUIT
HT.	HEIGHT
H.I.D.	HIGH INTENSITY DISCHARGE
HORIZ.	HORIZONTAL
H.O.A.	HAND OFF AUTO
HP.	HORSEPOWER
H.P.S.	HIGH PRESSURE SODIUM
HZ.	HERTZ
INC.	INCANDESCENT
IMC	INTERMEDIATE CONDUIT
ISOL.	ISOLATED
INSUL.	INSULATION/INSULATED
J	JUNCTION BOX
KHZ	KILOHERTZ
KW	KILOWATT
KWH	KILOWATT HOUR
KVA	KILOVOLT–AMPERE
KVAR	KILOVAR
KV	KILOVOLT

LAN	LOCAL AREA NETWORK
LG.	LENGTH
LF	LINEAR FEET
LT	LIGHT
LTG	LIGHTING
LRA	LOCKED ROTOR AMPERES
LS	LIFE SAFETY
LG	LONG
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
M.C.	MECHANICAL CONTRACTOR
M/C	MULTI–CONDUCTOR
MDS	MAIN DISTRIBUTION SWITCHBOARD
MDP	MAIN DISTRIBUTION PANEL
MANUF.	MANUFACTURER
MF	MAINTENANCE FACTOR
MAX.	MAXIMUM
MB	MAIN BREAKER
MECH.	MECHANICAL
MCM	THOUSAND CIRCULAR MILLS
MG	MOTOR GENERATOR
MTD.	MOUNTED
MIN.	MINIMUM
M.L.O.	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
N.	NEUTRAL
NC	NORMAL CLOSED
N.E.C.	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NO./#	NUMBER
ϕ	PHASE
P.V.C.	POLYVINYLCHLORIDE
PB	PULL BOX
PNL.	PANELBOARD
P.C.	PLUMBING CONTRACTOR
PRI.	PRIMARY
PV	PHOTOVOLTAIC
R.	RADIUS
RF	RADIO FREQUENCY
REBAR.	REINFORCING BAR
RECEPT.	RECEPTACLE
REQ'D	REQUIRED
REV.	REVISE/REVISION
REC.	RECESSED
R..SW.	REMOTE CONTROL SWITCH
RGS	RIGID GALVANIZED STEEL CONDUIT
RTU	REMOTE TERMINAL UNIT
SECT.	SECTION
SEC.	SECONDARY
SERV.	SERVICE
1/C	SINGLE CONDUCTOR
SK.	SKETCH
SPECS.	SPECIFICATIONS
SQ.	SQUARE
S.F.	SQUARE FEET
STA.	STATION
SW.	SWITCH
S.S.	STAINLESS STEEL
SW'BD	SWITCHBOARD
SYM.	SYMMETRICAL
SUSP.	SUSPENDED
SEP.	SEPARATE
SHT.	SHEET
SIG.	SIGNAL
SN	SOLID NEUTRAL
SURF.	SURFACE
THRU	THROUGH
TEL.	TELEPHONE
TRANSF./XFMR	TRANSFORMER
TYP.	TYPICAL
U.O.C.	UNLESS OTHERWISE NOTED
U.R.F.	UNDER RAISED FLOOR
VS.	VERSUS
VERT.	VERTICAL
VD	VOLTAGE DROP
V.	VOLTAGE/VOLTS
WP	WEATHERPROOF
WD.	WIDE
W/	WITH
W/O	WITHOUT
W/I	WROUGHT IRON

NOTE: NOT ALL SYMBOLS, NOTES, AND ABBREVIATIONS ARE USED.

GENERAL

- DEMOLITION
- NEW WORK
- EXISTING
- CIRCUITING CONNECTION

POWER

- PANELBOARD (HATCHING INDICATES VOLTAGE)
- 208/120V HATCHING
- 480/277V HATCHING
- E — ELECTRIC
- EU — UNDERGROUND ELECTRIC
- T — TRANSFORMER
- UNFUSED DISCONNECT SWITCH. SIZE AS NOTED
- FUSED DISCONNECT SWITCH, SIZE AS NOTED
- J — FLUSH WALL JUNCTION BOX OR JUNCTION BOX ABOVE CEILING
- RECEPTACLE
- WP — WEATHER–PROOF RECEPTACLE
- S — SINGLE–POLE SWITCH
- S_M — MOTOR RATED SWITCH
- S_3 — SINGLE–POLE 3–WAY SWITCH
- xx–xx — (CIRCUIT DESIGNATION)
- POLE MOUNTED LIGHT
- WALL MOUNTED LIGHT
- T — THERMOSTAT
- J — FLUSH WALL JUNCTION BOX OR JUNCTION BOX ABOVE CEILING
- WP E1 A — WALL POINT BASE AND COPPER POINT (DETAIL DESIGNATION, SEE SHEET E–501)
- NARROW WALL POINT BASE AND COPPER POINT
- COMBINATION SPLICER
- LIGHTNING PROTECTION CONDUCTOR
- LIGHTNING PROTECTION CONDUCTOR DROP

LIGHTING

- NEW SUSPENDED PENDANT LUMINAIRE 'F1' SEE LIGHTING FIXTURE SCHEDULE FOR INFORMATION

GENERAL ELECTRICAL NOTES

1. NO LIVE ELECTRICAL WORK IS PERMITTED. ALL ELECTRICAL SHUT DOWNS FOR CONNECTIONS MUST BE REQUESTED AND COORDINATED 2 WEEKS IN ADVANCE.
2. ALL INSTALLATIONS SHALL MEET ALL REQUIREMENTS OF THE LATEST VERSION OF THE VA ELECTRICAL DESIGN MANUAL, NEC AND NFPA 780.
3. AIC RATING OF PROVIDED CIRCUIT BREAKERS SHALL AT A MINIMUM MATCH THE AIC RATING OF THE PANEL IN WHICH IT IS INSTALLED.
4. CONTRACTOR SHALL SEAL ALL WALL PENETRATIONS TO MAINTAIN THE WALL'S EXISTING FIRE RATING. SEE TYPICAL PENETRATION PATCHING DETAIL.
5. PROVIDE EMERGENCY EGRESS LIGHTING DURING DEMOLITION/CONSTRUCTION TEMPORARY SHUTDOWNS TO ENSURE EGRESS LIGHTING REMAINS IN OPERATION THROUGHOUT DEMOLITION/CONSTRUCTION.

ELECTRICAL DEMOLITION NOTES

1. REMOVE ALL OBSOLETE ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT, WIRING, CONTROLS, HANGERS, PADS, AND SUPPORTS UNLESS OTHERWISE INDICATED TO REMAIN. DISCONNECT CIRCUIT AND WIRING FROM EQUIPMENT WHICH IS TO BE REMOVED BY OTHERS. WIRING MADE OBSOLETE BY THE NEW CONSTRUCTION SHALL BE REMOVED. CONDUIT MADE OBSOLETE BY THE NEW CONSTRUCTION SHALL BE REMOVED OR SECURELY SEALED AND CAPPED ABOVE CEILINGS, BELOW FLOORS, GRADE OR IN WALLS SO THAT IT IS COMPLETELY CONCEALED AT THE COMPLETION OF THE PROJECT. PIPING AND WIRING REMOVED FROM THE EXISTING ELECTRICAL SYSTEMS SHALL NOT BE USED IN THE INSTALLATION OF THE NEW SYSTEMS.
2. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND LEGAL DISPOSAL OF EQUIPMENT AND SYSTEMS MADE OBSOLETE AND/OR REPLACED BY NEW WORK. DEMOLITION INCLUDES RELOCATION OR REINSTALLATION, DISCONNECTIONS AND RECONNECTIONS OF SERVICES, SUPPORTS, AND SUBSEQUENT FINAL SUPPORTS, TEMPORARY CAPPING, AND REROUTING OF TEMPORARY SERVICES TO PERMIT NEW OR RENOVATION WORK TO PROCEED.
3. THE DEMOLITION WORK INDICATED ON THE DRAWING IS INTENDED TO ASSIST THE CONTRACTOR AND GIVE GENERAL INFORMATION. NOT ALL DEMOLITION OR TEMPORARY CONNECTIONS ARE SHOWN. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND REVIEW ORIGINAL DRAWINGS IF AVAILABLE. CONTRACTOR IS RESPONSIBLE TO DETERMINE THE FULL EXTENT OF DEMOLITION, AND INCLUDE ALL REQUIRED DEMOLITION WORK IN HIS BID, WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. NO ADDITIONAL COST WILL BE GRANTED FOR DEMOLITION. LEGALLY DISPOSE OF ALL ITEMS AND MATERIALS, EXCEPT ANY ITEMS SPECIFICALLY DESIGNATED BY THE OWNER TO BE SALVAGED. REMOVE AND REPLACE THE DESIGNATED SALVAGED EQUIPMENT IN A LOCATION DIRECTED BY THE OWNER AT NO ADDITIONAL EXPENSE.
4. MAINTAIN CONTINUITY OF EXISTING CIRCUITS FOR EQUIPMENT AND DEVICES TO REMAIN. IF A DEVICE OR EQUIPMENT IS REMOVED AND IS PART OF AN EXISTING CIRCUIT TO REMAIN, THE CIRCUIT SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
5. IN ALL AREAS WHERE PATCHING IS REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PATCH THE SUBSURFACE WHERE THE NEW SURFACE IS TO BE FINISHED BY THE GENERAL CONTRACTOR. THIS SUBSURFACE MUST BE PROVIDED SO THAT IT DOES NOT INHIBIT THE INSTALLATION OF OR AFFECT THE APPEARANCE OF THE NEW FINISH. IF A NEW FINISH WILL NOT BE PROVIDED BY THE GENERAL CONTRACTOR, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PATCH THE SURROUNDING SURFACE TO MATCH EXISTING.

GENERAL SCHEDULING/PHASING NOTE

1. ALL MEANS OF EGRESS SHALL BE MAINTAINED AND ACCESSIBLE. ICRA BARRIERS (IF REQUIRED), SHALL BE ERECTED AND TAKEN DOWN AS REQUIRED TO MEET THE VA SCHEDULING REQUIREMENTS. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS ON ICRA DRAWINGS AND AS DIRECTED BY PROJECT COR.

Revisions:	Date:

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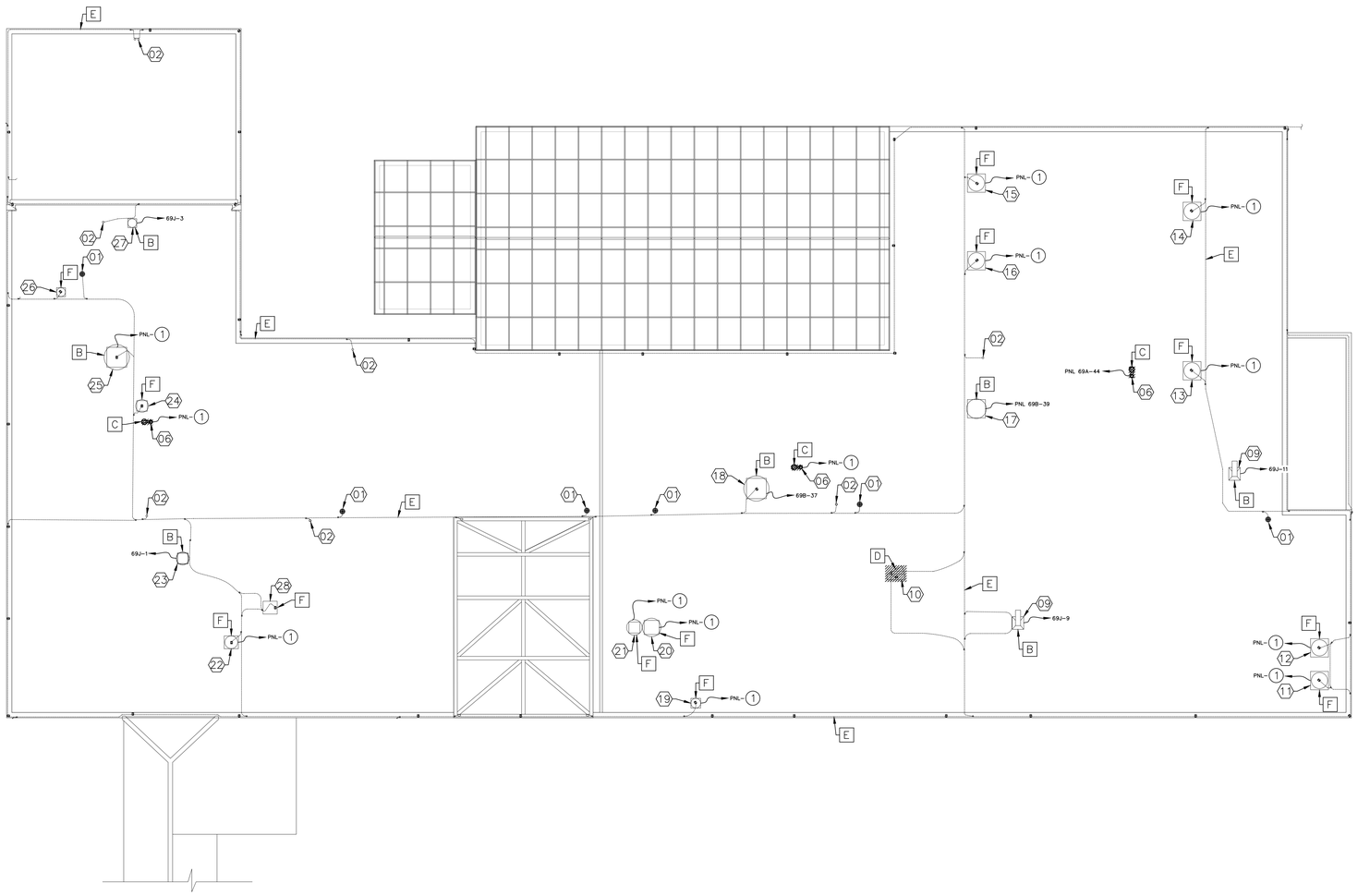
Drawing Title	ELECTRICAL SYMBOLS, NOTES AND ABBREVIATIONS
Phase	FOR BID SUBMISSION
Project Title	AE REPLACE ROOF BUILDINGS 69 &139
Project Number	542-23-201
Building Number	N/A
Location	COATESVILLE VAMC
Drawing Number	E-001
Issue Date	05/01/25
Checked	DT / TH
Drawn	V.A.C.

VA FORM 08 - 6231

HATCH STYLES

	EQUIPMENT TO BE REMOVED AND PRESERVED FOR REINSTALLATION UNLESS OTHERWISE NOTED



PROJECT NORTH
N

1
ED-100

BUILDING 69 ROOF ELECTRICAL DEMOLITION PLAN

SCALE: 3/32"=1'-0"

GENERAL DEMOLITION NOTES

I. DEMOLISH EXISTING LIGHTNING PROTECTION SYSTEM FOR ASSOCIATED BUILDING 69.

II. REFER TO PLUMBING DEMO PLANS FOR DEMOLITION OF ROOF DRAINS AND VENTS.

III. REFER TO ARCHITECTURAL/MECHANICAL DEMO PLANS FOR DEMOLITION OF VENTS AND DUNNAGE.

IIII. EXISTING DOWNLEADS AND ASSOCIATED GROUNDING TO REMAIN. DOWNLEADS AND GROUNDING SHALL BE TESTED AND INSPECTED TO ENSURE REQUIREMENTS OF NFPA 780 ARE MET.

KEYED DEMOLITION NOTES

B COMPLETE LO/TO (LOCKOUT/TAGOUT) PROCEDURE OF ASSOCIATED SOURCE POWER DISTRIBUTION. DISCONNECT EXISTING EQUIPMENT AND MEANS OF DISCONNECT FROM ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR TO ENSURE THE EXISTING INTEGRITY OF EXISTING EQUIPMENT THROUGHOUT CONSTRUCTION.

C DEMOLISH RECEPTACLE AND ASSOCIATED CONDUCTORS TO SOURCE PANELBOARD. EXISTING CONDUIT TO REMAIN.

D REMOVE EXISTING PANELBOARD AND ASSOCIATED FEEDER CONDUCTORS AND CONDUIT TO SOURCE PANELBOARD.

E DEMOLISH EXISTING LIGHTNING PROTECTION SYSTEM FOR ASSOCIATED BUILDING 69.

F DEMOLISH EXISTING EQUIPMENT, MEANS OF DISCONNECT AND ALL CONDUIT AND CONDUCTORS TO SOURCE PANELBOARD.

KEYED NOTE

1 CONTRACTOR TO VERIFY SOURCE PANELBOARD/ SWITCHBOARD. COORDINATE WITH VA COR.

EQUIPMENT SCHEDULE – BUILDING 69		
TAG	SYMBOL	DESCRIPTION
1		ROOF DRAIN
2		PLUMBING VENT
6		RECEPTACLE
9		GOOSE NECK EXHAUST ROOF VENT
10		ELECTRICAL PANEL
11		DOWNBLAST EXHAUST FAN
12		DOWNBLAST EXHAUST FAN
13		DOWNBLAST EXHAUST FAN
14		DOWNBLAST EXHAUST FAN
15		DOWNBLAST EXHAUST FAN
16		DOWNBLAST EXHAUST FAN
17		UPBLAST EXHAUST FAN
18		DOWNBLAST EXHAUST FAN
19		DOWNBLAST EXHAUST FAN
20		DOWNBLAST EXHAUST FAN
21		DOWNBLAST EXHAUST FAN
22		DOWNBLAST EXHAUST FAN
23		UPBLAST EXHAUST FAN
24		DOWNBLAST EXHAUST FAN
25		DOWNBLAST EXHAUST FAN
26		DOWNBLAST EXHAUST FAN
27		UPBLAST EXHAUST FAN
28		ABANDONED ROOF CAP

Revisions:	Date:

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Drawing Title: ROOF ELECTRICAL DEMOLITION PLAN - BUILDING 69

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

Building Number: 69

Location: COATESVILLE VAMC

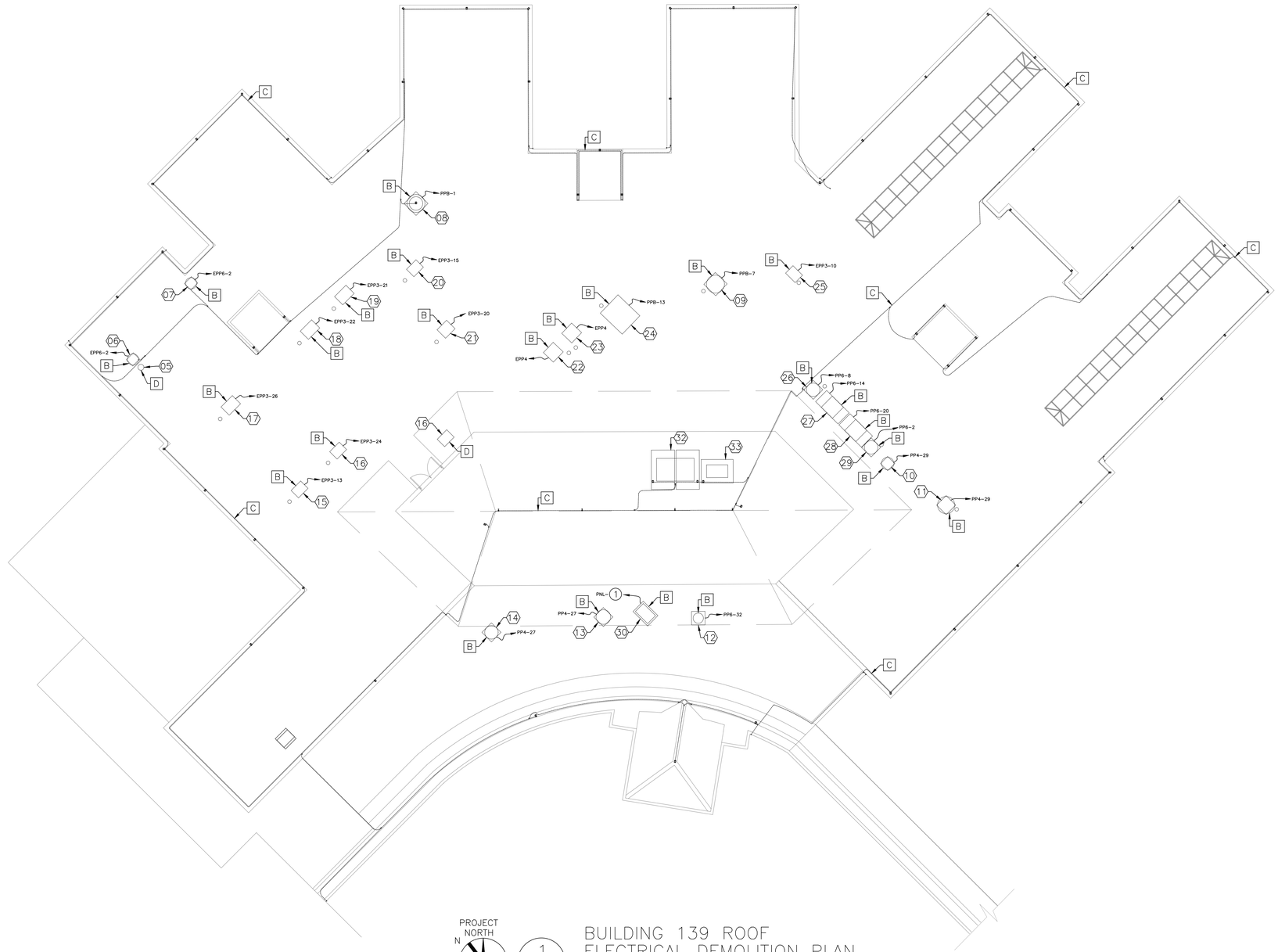
Drawing Number: ED-100

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: V.A.C.

VA FORM 08 - 6231

HATCH STYLES

	EQUIPMENT TO BE REMOVED AND PRESERVED FOR REINSTALLATION UNLESS OTHERWISE NOTED



PROJECT NORTH
N

1
ED-101

BUILDING 139 ROOF ELECTRICAL DEMOLITION PLAN
SCALE: 3/32"=1'-0"

GENERAL DEMOLITION NOTES

I. DEMOLISH EXISTING LIGHTNING PROTECTION SYSTEM FOR ASSOCIATED BUILDING 139
II. REFER TO PLUMBING DEMO PLANS FOR DEMOLITION OF ROOF DRAINS AND VENTS.
III. REFER TO ARCHITECTURAL/MECHANICAL DEMO PLANS FOR DEMOLITION OF VENTS AND DUNNAGE.
IV. EXISTING DOWNLEADS AND ASSOCIATED GROUNDING TO REMAIN. DOWNLEADS AND GROUNDING SHALL BE TESTED AND INSPECTED TO ENSURE REQUIREMENTS OF NFPA 780 ARE MET.

KEYED DEMOLITION NOTES

B COMPLETE LO/TO (LOCKOUT/TAGOUT) PROCEDURE OF ASSOCIATED SOURCE POWER DISTRIBUTION. DISCONNECT EXISTING EQUIPMENT AND MEANS OF DISCONNECT FROM ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR TO ENSURE THE EXISTING INTEGRITY OF EXISTING EQUIPMENT THROUGHOUT CONSTRUCTION.

C DEMOLISH EXISTING LIGHTNING PROTECTION SYSTEM FOR ASSOCIATED BUILDING 139

D DEMOLISH EXISTING EQUIPMENT, MEANS OF DISCONNECT AND ALL CONDUIT AND CONDUCTORS TO SOURCE PANELBOARD.

KEYED NOTE

1 CONTRACTOR TO VERIFY SOURCE PANELBOARD/ SWITCHBOARD. COORDINATE WITH VA COR.

EQUIPMENT SCHEDULE – BUILDING 139		
TAG	SYMBOL	DESCRIPTION
05		ABANDONED ROOF CAP
06		UPBLAST EXHAUST FAN
07		DOWNBLAST EXHAUST FAN
08		DOWNBLAST EXHAUST FAN
09		UPBLAST EXHAUST FAN
10		DOWNBLAST EXHAUST FAN
11		UPBLAST EXHAUST FAN
12		DOWNBLAST EXHAUST FAN
13		UPBLAST EXHAUST FAN
14		UPBLAST EXHAUST FAN
15		REFRIGERATION CONDENSING UNIT SERVES COOLER #1 WALK IN 135
16		REFRIGERATION CONDENSING UNIT SERVES COOLER #2 WALK IN 133
17		REFRIGERATION CONDENSING UNIT SERVES FREEZER #1 WALK IN 136
18		REFRIGERATION CONDENSING UNIT SERVES FREEZER #2 WALK IN 134
19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131
22		REFRIGERATION CONDENSING UNIT
23		REFRIGERATION CONDENSING UNIT
24		MAKE-UP AIR UNIT
25		REFRIGERATION CONDENSING UNIT
26		UPBLAST EXHAUST FAN
27		INTAKE/RELIEF HOOD
28		INTAKE/RELIEF HOOD
29		UPBLAST EXHAUST FAN
30		INTAKE/RELIEF HOOD
32		INTAKE/RELIEF HOOD
33		INTAKE/RELIEF HOOD

Revisions:	Date:

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Drawing Title: ROOF ELECTRICAL DEMOLITION PLAN - BUILDING 139
Phase: FOR BID SUBMISSION
Project Title: AE REPLACE ROOF BUILDINGS 69 &139
Project Number: 542-23-201
Building Number: 139
Location: COATESVILLE VAMC
Drawing Number: ED-101
Issue Date: 05/01/25
Checked: DT / TH
Drawn: V.A.C.

VA FORM 08 - 6231

GENERAL NOTE

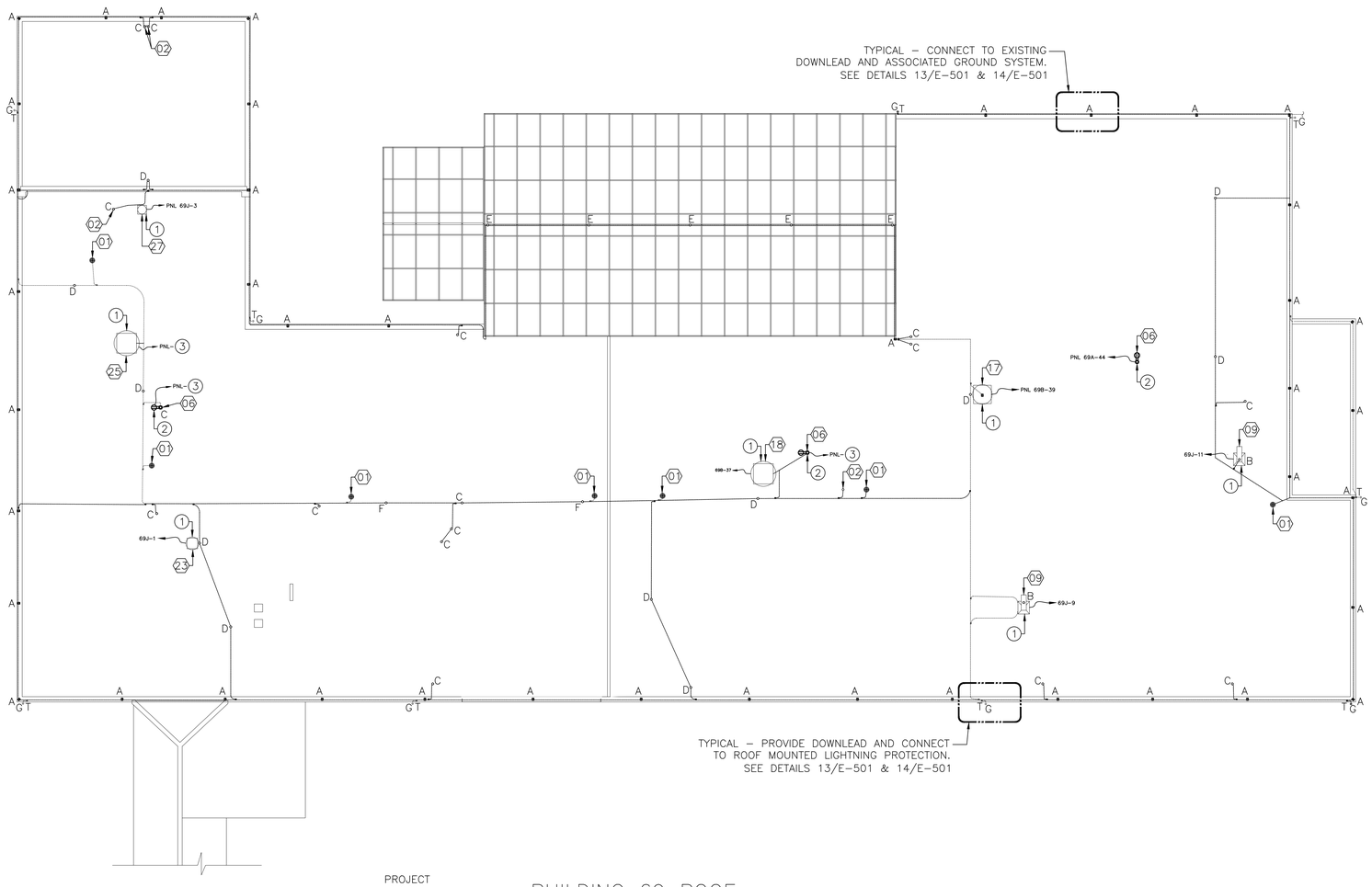
I. PROVIDE LIGHTNING PROTECTION FOR ASSOCIATED ROOF MOUNTED DEVICES. SEE ELECTRICAL DETAILS ON SHEET E-501 FOR ASSOCIATED LIGHTNING PROTECTION DETAILS. ALL INSTALLATIONS SHALL BE PER NFPA 780, UL 96, AND MANUFACTURER INSTALLATION REQUIREMENTS

II. PROVIDE SHOP DRAWING REVIEWED BY A CERTIFIED LIGHTNING PROTECTION MASTER/INSTALLER DESIGNER. COMPLETED SYSTEM SHALL BE TESTED AND CERTIFIED BY A UL SOLUTIONS LIGHTNING PROTECTION MASTER (LPMC).

KEYED NOTES

1. RECONNECT MECHANICAL EQUIPMENT TO ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR SHALL ENSURE ALL CIRCUITS ARE RETURNED TO THE STATE IN WHICH THEY WERE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ENSURE A COMPLETE AND OPERATIONAL SYSTEM AT THE COMPLETION OF CONSTRUCTION.
2. CONNECT TO LOCAL 120V CIRCUIT. PROVIDE 20A CIRCUIT SINGLE POLE BREAKER, (2)#10 CONDUCTORS, (1)#10 GROUND IN EXISTING CONDUIT. CONDUIT INTEGRITY SHALL BE INSPECTED AND ENSURED BY THE CONTRACTOR TO ENSURE ALL INSTALLATIONS ARE COMPLETED PER NEC REQUIREMENTS.
3. CONTRACTOR TO VERIFY SOURCE PANELBOARD/ SWITCHBOARD. COORDINATE WITH VA COR.

EQUIPMENT SCHEDULE – BUILDING 69		
TAG	SYMBOL	DESCRIPTION
01		ROOF DRAIN
02		PLUMBING VENT
6		RECEPTACLE
9		GOOSE NECK EXHAUST ROOF VENT
17		UPBLAST EXHAUST FAN
18		DOWNBLAST EXHAUST FAN
23		UPBLAST EXHAUST FAN
25		DOWNBLAST EXHAUST FAN
27		UPBLAST EXHAUST FAN



PROJECT NORTH

1 / E-100

BUILDING 69 ROOF ELECTRICAL NEW WORK PLAN

SCALE: 3/32"=1'-0"

Revisions:	Date:

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Drawing Title: ROOF ELECTRICAL NEW WORK PLAN - BUILDING 69

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Location: COATESVILLE VAMC

Issue Date: 05/01/25

Checked: DT / TH

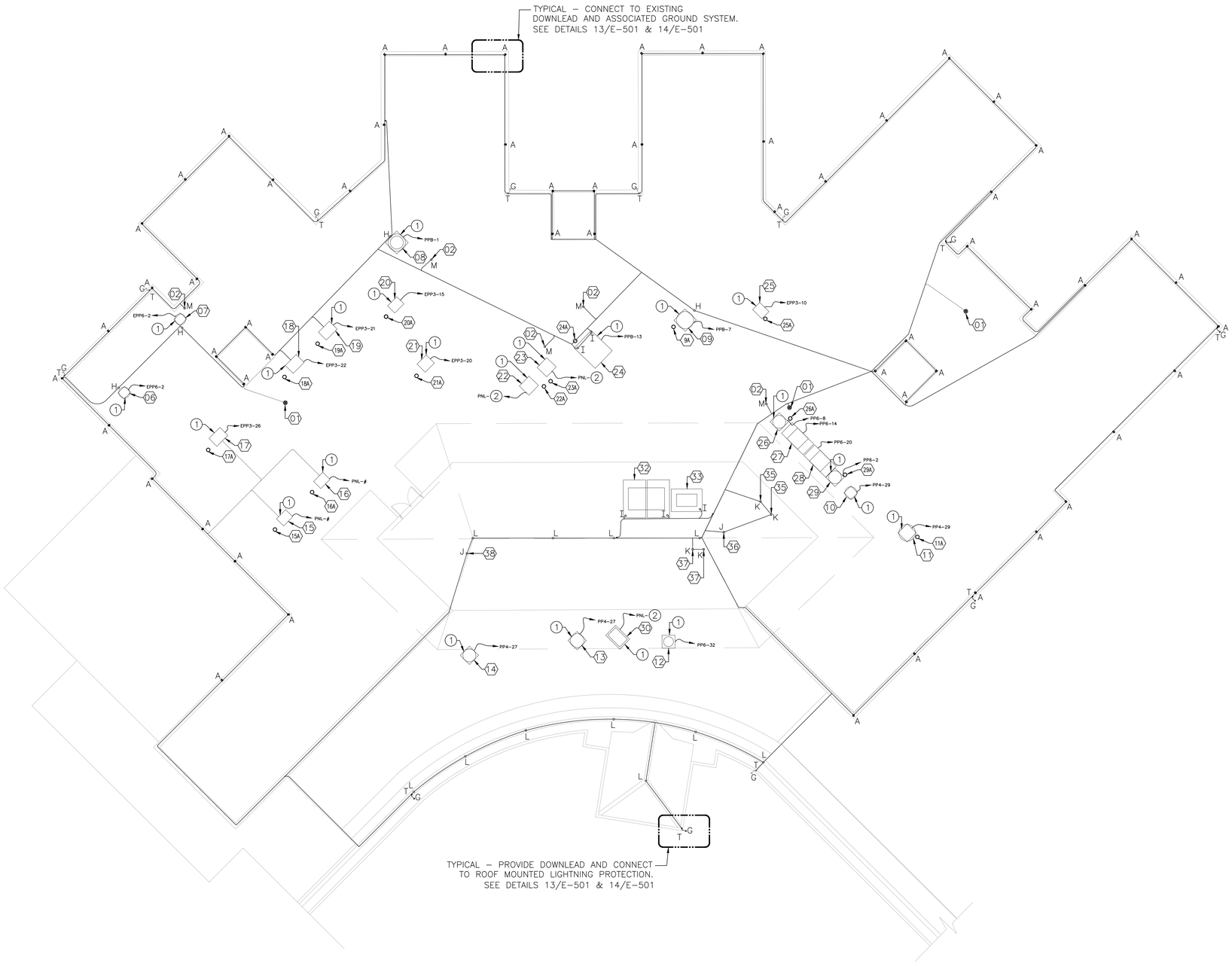
Drawn: V.A.C.

Project Number: 542-23-201

Building Number: 69

Drawing Number: E-100

VA FORM 08 - 6231



PROJECT NORTH

N

1 E-101

BUILDING 139 ROOF ELECTRICAL NEW WORK PLAN

SCALE: 3/32"=1'-0"

GENERAL NOTE

I. PROVIDE LIGHTNING PROTECTION FOR ASSOCIATED ROOF MOUNTED DEVICES. SEE ELECTRICAL DETAILS ON SHEET E-501 FOR ASSOCIATED LIGHTNING PROTECTION DETAILS. ALL INSTALLATIONS SHALL BE PER NFPA 780, UL 96, AND MANUFACTURER INSTALLATION REQUIREMENTS

II. PROVIDE SHOP DRAWING REVIEWED BY A CERTIFIED LIGHTNING PROTECTION MASTER/INSTALLER DESIGNER. COMPLETED SYSTEM SHALL BE TESTED AND CERTIFIED BY A UL SOLUTIONS LIGHTNING PROTECTION MASTER (LPMC).

KEYED NOTES

1. RECONNECT MECHANICAL EQUIPMENT TO ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR SHALL ENSURE ALL CIRCUITS ARE RETURNED TO THE STATE IN WHICH THEY WERE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ENSURE A COMPLETE AND OPERATIONAL SYSTEM AT THE COMPLETION OF CONSTRUCTION.
2. CONTRACTOR TO VERIFY SOURCE PANELBOARD/ SWITCHBOARD. COORDINATE WITH VA COR.

EQUIPMENT SCHEDULE – BUILDING 139		
TAG	SYMBOL	DESCRIPTION
01		ROOF DRAIN
02		PLUMBING VENT
06		UPBLAST EXHAUST FAN
07		DOWNBLAST EXHAUST FAN
08		DOWNBLAST EXHAUST FAN
09		UPBLAST EXHAUST FAN
10		DOWNBLAST EXHAUST FAN
11		UPBLAST EXHAUST FAN
12		DOWNBLAST EXHAUST FAN
13		UPBLAST EXHAUST FAN
14		UPBLAST EXHAUST FAN
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19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131
22		REFRIGERATION CONDENSING UNIT
23		REFRIGERATION CONDENSING UNIT
24		MAKE-UP AIR UNIT
25		REFRIGERATION CONDENSING UNIT
26		UPBLAST EXHAUST FAN
27		INTAKE/RELIEF HOOD
28		INTAKE/RELIEF HOOD
29		UPBLAST EXHAUST FAN
30		INTAKE/RELIEF HOOD
32		INTAKE/RELIEF HOOD
33		INTAKE/RELIEF HOOD
35		PLUMBING VENT X2
36		PLUMBING VENT
37		PLUMBING VENT X2
38		PLUMBING VENT
#A		ROOF PENETRATION – EXACT TAG NUMBERS IDENTIFIED BELOW
9A, 11A, 15A, 16A, 17A, 18A, 19A, 20A, 21A, 22A, 23A, 24A, 25A, 26A, 29A		

Revisions:	Date:

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ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
Engineering • Architecture • Planning

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF ELECTRICAL NEW WORK PLAN - BUILDING 139

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

Building Number: 139

Location: COATESVILLE VAMC

Drawing Number: E-101

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: V.A.C.

VA FORM 08 - 6231

BUILDING 69 ELECTRICAL PANELBOARD SCHEDULE

DESIGNATION	LOCATION	TYPE	VOLTAGE	PHASE	AMPERAGE
69EB		PANEL BOARD	277/480V	3	MCB 100A
69D	ELECTRICAL ROOM 134	PANEL BOARD	120/208V	3	MCB 225A
69B	ELECTRICAL ROOM 158A	PANEL BOARD	120/208V	3	MCB 225A
69C	ELECTRICAL ROOM 158A	PANEL BOARD	120/208V	3	MLO 400A
69A	ELECTRICAL ROOM 158A	PANEL BOARD	120/208V	3	MLO 400A
69E	ELECTRICAL ROOM 134	PANEL BOARD	120/208V	3	MCB 400A
69F		PANEL BOARD	120/208V	3	MLO 200A
69G		PANEL BOARD	120/208V	3	MLO 200A
69H		PANEL BOARD	120/208V	3	MCB 400A
69I		PANEL BOARD	120/208V	3	MCB 400A
69J	ELECTRICAL ROOM 158A	PANEL BOARD	277/480V	3	MCB 225A
69K		PANEL BOARD	277/480V	3	MLO 400A
69L		PANEL BOARD	277/480V	3	MLO 100A
EA-N-S		PANEL BOARD	120/208V	3	MCB 400A
69NE		PANEL BOARD	120/208V	3	MCB 400A
69EA	ELECTRICAL ROOM 158A	PANEL BOARD	120/208V	3	MLO 100A
GENERATOR PANEL		PANEL BOARD	120/208V	3	MLO 100A

NOTES CONTRACTOR SHALL VERIFY SOURCE DISTRIBUTION EQUIPMENT PRIOR TO ANY SHUT DOWNS.

BUILDING 139 ELECTRICAL PANELBOARD SCHEDULE

DESIGNATION	LOCATION	TYPE	VOLTAGE	PHASE	AMPERAGE
PP1A	KITCHEN	PANEL BOARD	120/208V	3	MCB 225A
PP1B	KITCHEN	PANEL BOARD	120/208V	3	MCB 225A
PP2	KITCHEN	PANEL BOARD	120/208V	3	MCB 100A
PP3	KTICHEN	PANEL BOARD	277/480V	3	MCB 150A
EPP1	KITCHEN	PANEL BOARD	120/208V	3	MCB 125A
PPB	KITCHEN	PANEL BOARD	277/480V	3	MCB 100A
LP2	ELECTRICAL CLOSET	PANEL BOARD	277/480V	3	MCB 100A
PP4B	ELECTRICAL ROOM B101	PANEL BOARD	120/208V	3	MCB 225A
PP4A	ELECTRICAL ROOM B101	PANEL BOARD	120/208V	3	MCB 225A
ELP2	ELECTRICAL ROOM B101	PANEL BOARD	277/480V	3	MCB 100A
EPP5	ELECTRICAL ROOM B101	PANEL BOARD	120/208V	3	MCB 60A
PP6	SERVING AREA	PANEL BOARD	277/480V	3	MCB 150A
LP1	ELECTRICAL ROOM	PANEL BOARD	277/480V	3	MLO 100A
EPP6	ELECTRICAL ROOM	PANEL BOARD	120/208V	3	MCB 125A
ELP1	ELECTRICAL ROOM	PANEL BOARD	277/480V	3	MLO 100A
EPP3	PENTHOUSE	PANEL BOARD	120/208V	3	MCB 225A
EPP4	PENTHOUSE	PANEL BOARD	277/480V	3	MCB 100A
PP5	PENTHOUSE	PANEL BOARD	277/480V	3	MCB 150A
PP7 (EPP3-B)	PENTHOUSE	PANEL BOARD	120/208V	3	MCB 60A

NOTES CONTRACTOR SHALL VERIFY SOURCE DISTRIBUTION EQUIPMENT PRIOR TO ANY SHUT DOWNS.

Revisions:	Date:

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Drawing Title: ELECTRICAL PANELBOARD SCHEDULES

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

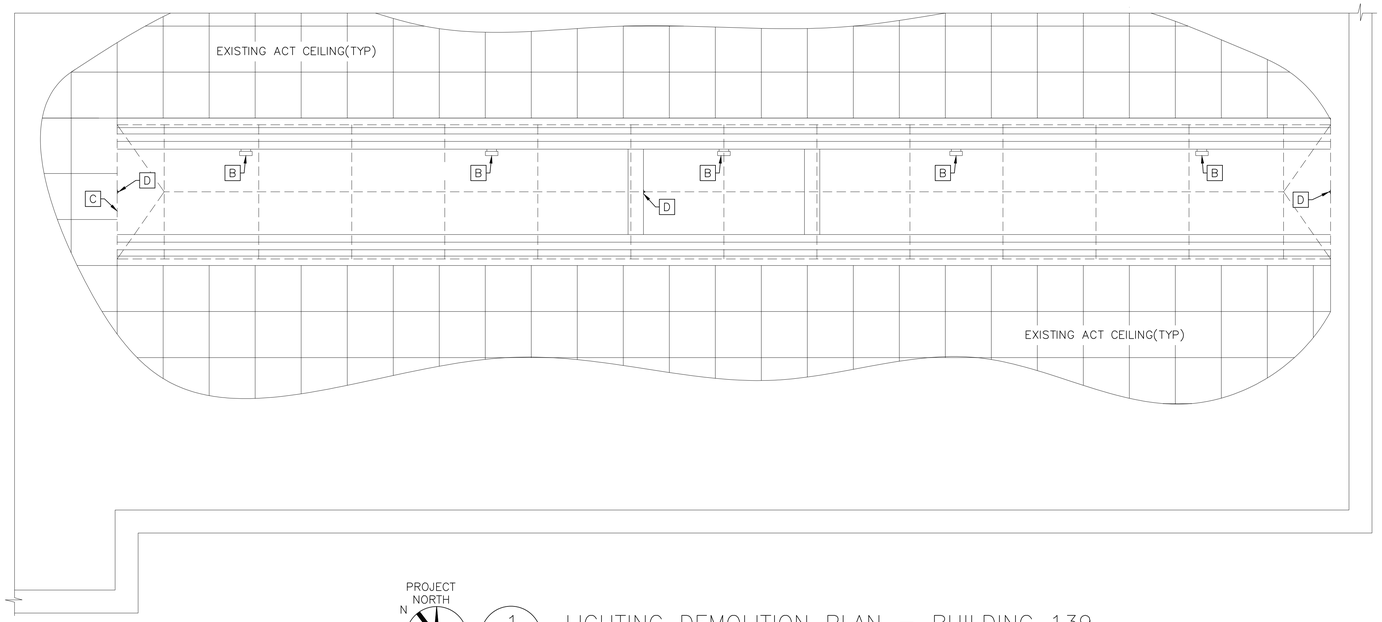
Building Number: 139

Location: COATESVILLE VAMC

Drawing Number: E-102

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: V.A.C.

VA FORM 08 - 6231



PROJECT NORTH N

1 EL-100 LIGHTING DEMOLITION PLAN – BUILDING 139

SCALE: 3/8"=1'-0"

LIGHTING FIXTURE SCHEDULE									
TYPE	BASIS OF DESIGN OR APPROVED EQUAL		MOUNTING	WATTS	LAMPS	LUMENS	COLOR TEMPERATURE	VOLTAGE	REMARKS
	MANUFACTURER	CATALOG ID							
F1	SPI LIGHTING	AIP12373-L54W-120/277V-3500K-DF_80-D IM1-MRA-FINISH	CEILING SUSPENDED	54	–	3515	3500	120V	CONFIRM FINISH AND MOUNTING STYLE WITH OWNER

GENERAL NOTES

I. CONTRACTOR TO PROVIDE WIRING TO ALL EQUIPMENT SHOWN. CONTRACTOR SHALL COORDINATE INSTALLATION WITH EXISTING CONDITIONS AND PROVIDE ROUTING OF CIRCUITING TO AVOID ALL EQUIPMENT, WHETHER OR NOT SHOWN ON DRAWING.

II. MAINTAIN EXISTING SWITCHING TO NEW 'F1' LIGHT FIXTURES.

KEYED DEMOLITION NOTES

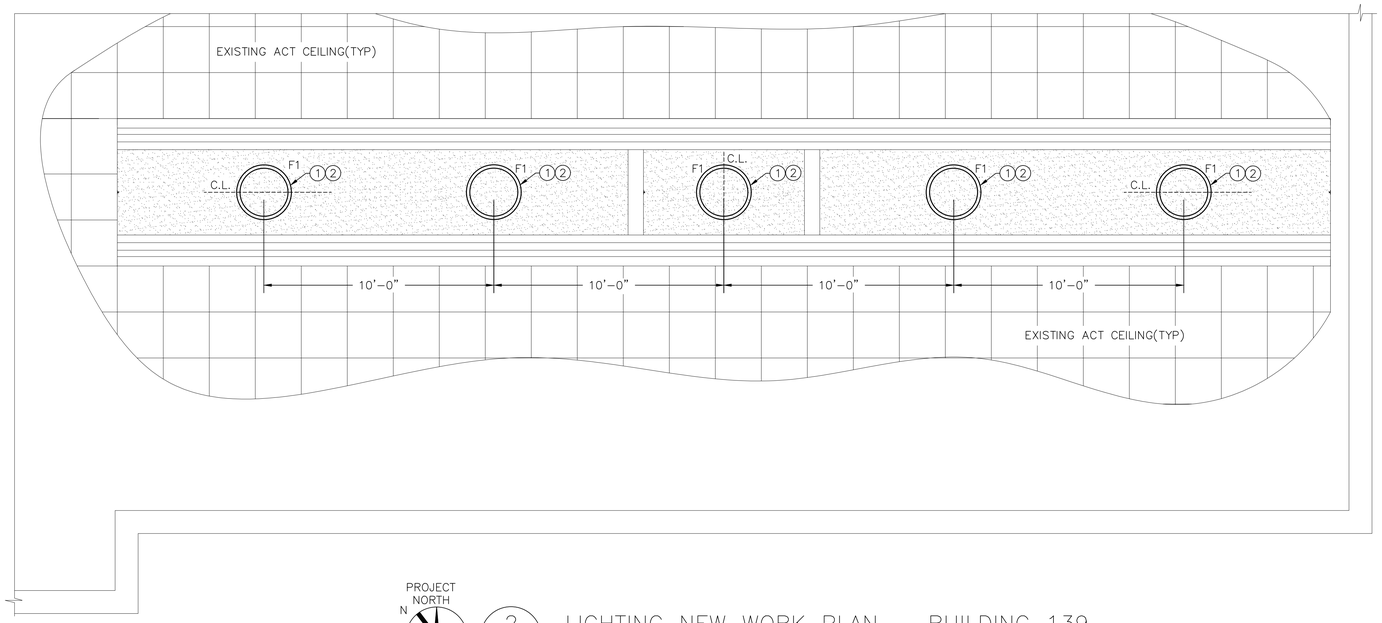
B CONTRACTOR TO DEMOLISH EXISTING LUMINAIRE AND HOUSING. MAINTAIN EXISTING CIRCUITRY AND ASSOCIATED JUNCTION BOXES. RE-USE EXISTING CIRCUITRY AND EXTEND WIRING AND CONDUIT TO NEW PENDANT LIGHTS.

C SKYLIGHT TO BE DEMOLISHED AND OPENING FILLED.

D EXISTING SPRINKLER HEAD TO REMAIN.

KEYED NOTES

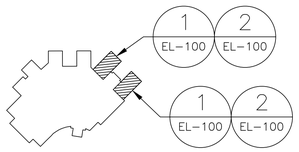
1. RE-USE EXISTING CIRCUITRY TO SUPPLY POWER TO NEW 'F1' PENDANTS. EXISTING CIRCUITRY IS SUPPLIED BY PANEL 'ELP2' LOCATED WITHIN THE ELECTRICAL ROOM B-101. PANEL 'ELP2' IS RATED AT 100A 277/480V 3P 4W AND IS SUPPLIED POWER FROM PANEL 'EDP' RATED AT 400A 277/480V 3P 4W. CONTRACTOR SHALL RETAIN EXISTING SWITCH CONFIGURATION. CONTRACTOR TO ENSURE EXISTING PANEL AND WIRE CAPACITIES ARE NOT EXCEEDED. EXTEND CONDUIT AND ADD JUNCTION BOXES AS REQUIRED AND IN ACCORDANCE TO NEC ARTICLE 314.
2. CONTRACTOR SHALL MEGGER TEST ASSOCIATED CONDUCTORS AND INSPECT CONDUIT TO ENSURE IT IS ACCEPTABLE FOR USE.



PROJECT NORTH N

2 EL-100 LIGHTING NEW WORK PLAN – BUILDING 139

SCALE: 3/8"=1'-0"



PROJECT NORTH N

BUILDING 139 ROOF KEY PLAN

SCALE: 1/128"=1'-0"

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Drawing Title: LIGHTING DEMOLITION AND NEW WORK PLANS - BUILDING 139

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

Building Number: 139

Location: COATESVILLE VAMC

Drawing Number: EL-100

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: K.E.B.

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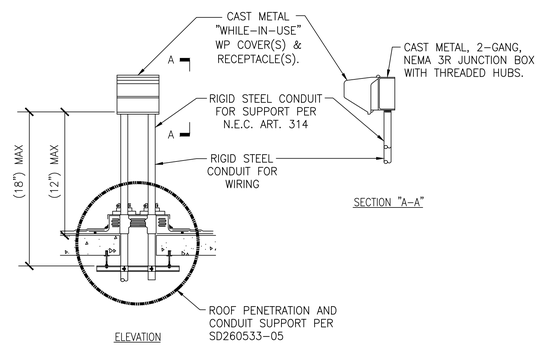
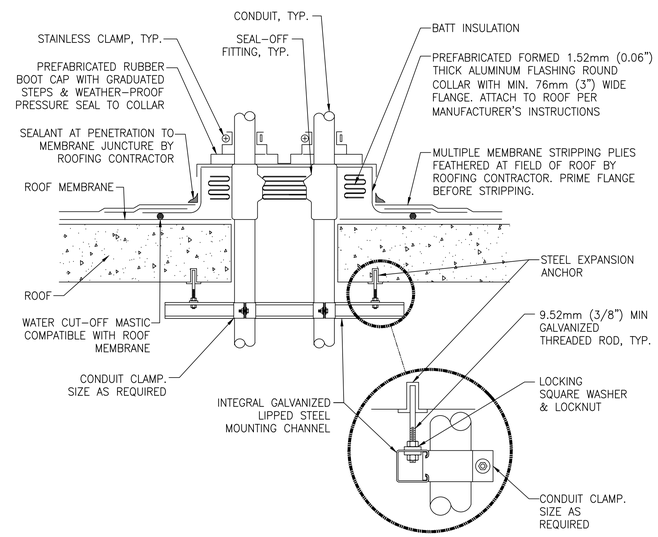


1 E-500 RECEPTACLE ROOF MOUNTING DETAIL

SCALE: NOT TO SCALE



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.

2 E-500 CONDUIT ROOF PENETRATION DETAIL

SCALE: NOT TO SCALE

Revisions:	Date:

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Drawing Title: ELECTRICAL DETAILS

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Location: COATESVILLE VAMC

Issue Date: 05/01/25

Checked: DT / TH

Drawn: V.A.C.

Project Number: 542-23-201

Building Number: N/A

Drawing Number: E-500

VA FORM 08 - 6231

1 E-501 DETAIL 'A'
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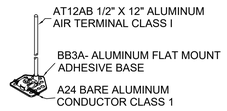

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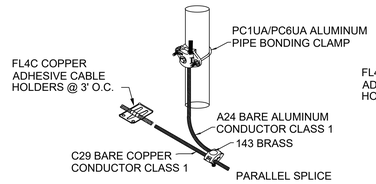

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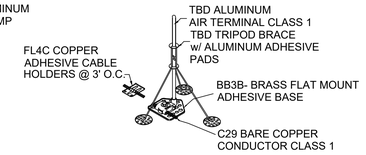

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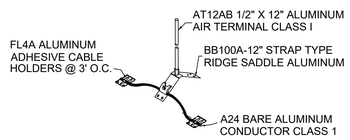

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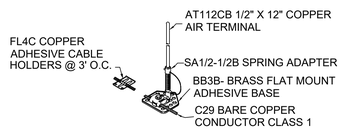

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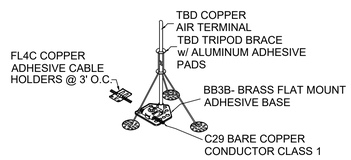

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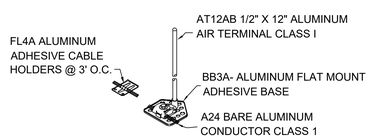

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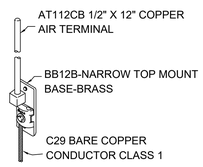

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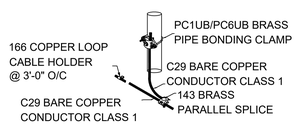

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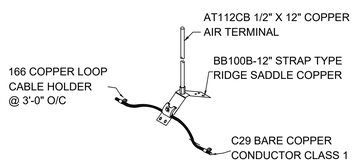

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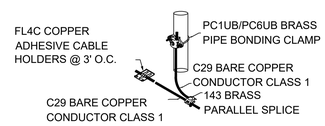

12 E-501 DETAIL 'M'
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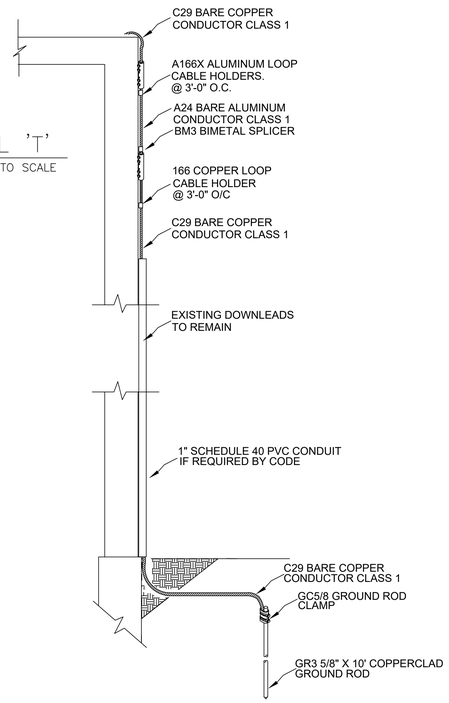

14 E-501 DETAIL 'G'
SCALE: NOT TO SCALE

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Drawing Number: E-501

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