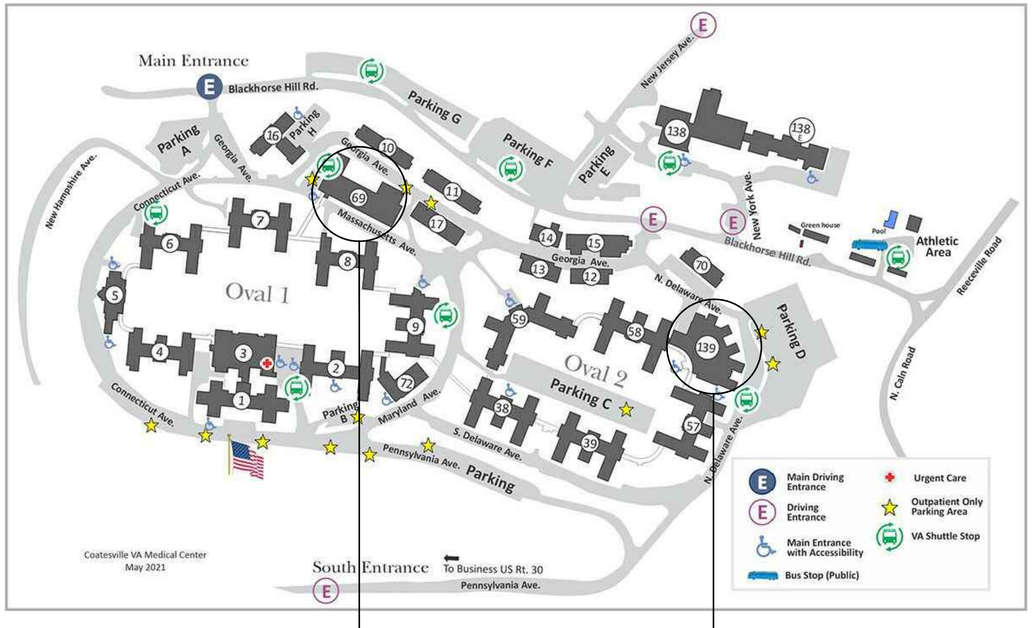
U.S. Department of Veterans Affairs

COATESVILLE VAMC
1400 Blackhorse Hill Road
Coatesville, PA 19320

AE REPLACE ROOF BUILDINGS 69 & 139

FOR BID SUBMISSION



DRAWING LIST - **BUILDING 69**

Sheet Number	Sheet Name
01 - GENERAL	
G-001	TITLE SHEET
G-002	GENERAL INFORMATION
02 - ARCHITECTURAL	
AD-101	DEMOLITION PLAN - BUILDING 69
A-101	EXISTING CONDITIONS PLAN - BUILDING 69
A-102	NEW WORK PLAN - BUILDING 69
A-103	PHASING PLAN - BUILDING 69
A-104	EXISTING DRAINAGE PLAN - BUILDING 69
A-105	NEW WORK DRAINAGE PLAN - BUILDING 69
03 - PLUMBING	
PD-100	ROOF PLUMBING DEMOLITION PLAN - BUILDING 69
PL-100	ROOF PLUMBING NEW WORK PLAN - BUILDING 69
04 - MECHANICAL	
MD-100	ROOF MECHANICAL DEMOLITION PLAN - BUILDING 69
M-100	ROOF MECHANICAL NEW WORK PLAN - BUILDING 69
05 - ELECTRICAL	
ED-100	ROOF ELECTRICAL DEMOLITION PLAN - BUILDING 69
E-100	ROOF ELECTRICAL NEW WORK PLAN - BUILDING 69
06 - STRUCTURAL	
S-105	ROOF PLAN & SECTIONS - BUILDING 69

DRAWING LIST - **BUILDING 139**

Sheet Number	Sheet Name
02 - ARCHITECTURAL	
AD-102	DEMOLITION PLAN - BUILDING 139
AD-103	REFLECTED CEILING PLAN DEMOLITION / NEW WORK - BUILDING 139
A-106	EXISTING CONDITIONS PLAN - BUILDING 139
A-107	NEW WORK PLAN - BUILDING 139
A-108	PHASING PLAN - BUILDING 139
A-109	EXISTING DRAINAGE PLAN - BUILDING 139
A-110	NEW DRAINAGE PLAN - BUILDING 139
03 - PLUMBING	
PD-101	ROOF PLUMBING DEMOLITION PLAN - BUILDING 139
PL-101	ROOF PLUMBING NEW WORK PLAN - BUILDING 139
04 - MECHANICAL	
MD-101	ROOF MECHANICAL DEMOLITION PLAN - BUILDING 139
M-101	ROOF MECHANICAL NEW WORK PLAN - BUILDING 139
05 - ELECTRICAL	
ED-101	ROOF ELECTRICAL DEMOLITION PLAN - BUILDING 139
EL-100	LIGHTING DEMOLITION AND NEW WORK PLAN - BUILDING 139
E-101	ROOF ELECTRICAL NEW WORK PLAN - BUILDING 139
06 - STRUCTURAL	
S-104	ROOF PLAN & SECTIONS - BUILDING 139

DRAWING LIST - **SHEETS APPLIED TO BOTH BUILDINGS**

Sheet Number	Sheet Name
ARCHITECTURAL	
A-001	STAGING PLAN
A-002	STAGING PLAN
A-501	ROOF DETAILS
A-502	ROOF DETAILS
A-503	ROOF DETAILS
PLUMBING	
PL-001	PLUMBING SYMBOLS & ABBREVIATIONS
PL-002	PLUMBING NOTES
MECHANICAL	
M-001	MECHANICAL SYMBOLS & NOTES
M-002	MECHANICAL NOTES & ABBREVIATIONS
M-500	MECHANICAL DETAILS
ELECTRICAL	
E-001	ELECTRICAL SYMBOLS, NOTES AND ABBREVIATIONS
E-102	ELECTRICAL PANELBOARD SCHEDULE
E-500	ELECTRICAL DETAILS
E-501	ELECTRICAL DETAILS
STRUCTURAL	
S-001	GENERAL NOTES - STRUCTURE
S-300	TYPICAL DETAILS

Revisions:	Date:

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
TITLE SHEET	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 69 / 139
		Location: COATESVILLE VAMC	Drawing Number: G-001
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	

VA FORM 08 - 6231

GENERAL NOTES

A ALL WORK, MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN STRICT ACCORDANCE WITH, AND SHALL CONFORM WITH, ALL FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS, TO THE PUBLISHED SPECIFICATIONS AND RECOMMENDED PRACTICES OF THE MANUFACTURERS AND THE APPROPRIATE APPLICABLE STANDARDS. WHERE SUCH CODES, RULES AND REGULATIONS ARE AT VARIANCE WITH THE PLANS AND NOTES, SAID CODES, RULES AND REGULATIONS, ETC SHALL TAKE PRECEDENCE OVER THE PLANS AND NOTES.

B CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE CODES INCLUDING ACCESSIBILITY STANDARDS AND THE REQUIREMENTS OF "ABAAS W/VA SUPPLEMENT" .

C COR SHALL ENGAGE THE INDEPENDENT SPECIAL INSPECTION AGENCY. CONTRACTOR TO NOTIFY INSPECTOR ON PROGRESS OF CONSTRUCTION AND PROVIDE ACCESS TO THE SITE TO COMPLETE INSPECTIONS. EACH SPECIAL INSPECTOR IS RESPONSIBLE FOR JOB SPECIFIC ITEMS AS DEFINED IN CHAPTER 17 OF THE IBC (AND IN ACCORDANCE WITH THE SPECIFICATION.)

D THE CONTRACTOR(S) SHALL VISIT THE SITE AND CORRELATE THE REQUIREMENTS OF THE DOCUMENTS WITH THE EXISTING CONDITIONS. CONTRACTOR MUST FULLY FAMILIARIZE HIMSELF OF THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR UNDER WHICH THE WORK WILL BE PERFORMED AND COMPARE THE DRAWINGS AND SPECIFICATIONS WITH THE WORK IN PLACE. FAILURE TO DO SO WILL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO FURNISH ALL LABOR AND MATERIAL NECESSARY TO CARRY OUT THE PROVISION OF THE CONTRACT DOCUMENTS AND TO COMPLETE THE CONTEMPLATED WORK FOR THE CONSIDERATION SET FORTH IN HIS BID. EACH CONTRACTOR, IN THE CARRYING OUT OF HIS WORK, SHALL EMPLOY SUCH CONSTRUCTION METHODS OR MEANS THAT WILL NOT CAUSE ANY INTERRUPTIONS OR INTERFERENCE WITHIN THE WORK OF ANY OTHER TRADES.

E THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATERTIGHT INTEGRITY OF THE BUILDING AT ALL TIMES TO THE GOVERNMENT. ALL WATER DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.

F DO NOT SCALE DRAWINGS. CONTRACTOR(S) ARE TO VERIFY ALL ON SITE DIMENSIONS AND EXISTING CONDITIONS PRIOR TO WORK OCCURRING. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE GOVERNMENT PRIOR TO STARTING CONSTRUCTION. COMMENCEMENT OF THE WORK BY THE CONTRACTOR SHALL IMPLY HIS ACCEPTANCE OF ALL EXISTING CONDITIONS.

G DRAWINGS ARE DIAGRAMMATIC AND SINCE EXISTING CONDITIONS, INCLUDING AREAS ABOVE ACCESSIBLE CEILINGS MAY AFFECT NEW WORK, THE CONTRACTOR SHALL COORDINATE AND ALTER NEW WORK TO PROPERLY FIT THE EXISTING CONDITIONS. THE WORK SHALL BE PERFORMED AT NO EXTRA COST. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. ALL CHANGES MADE TO THE PLANS MUST BE APPROVED BY THE CONTRACTING OFFICER. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR OFFICER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK.

H. SHOULD ANY CONFLICT BE FOUND BETWEEN CONTRACT DOCUMENTS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL OVERRULE THE CONTRACT DRAWINGS.

I THE APPROVAL OF SUBMITTALS BY THE GOVERNMENT SHALL NOT BE CONSTRUED AS A COMPLETE CHECK, BUT WILL INDICATE ONLY THAT A GENERAL METHOD OF CONSTRUCTION, MATERIALS, DETAILING AND OTHER INFORMATION ARE SATISFACTORY. APPROVAL WILL NOT RELIEVE THE CONTRACTOR OF THE REASONABILITY FOR ANY ERROR, WHICH MAY EXIST, AS THE CONTRACTOR UNDER THE CQC REQUIREMENTS OF THIS CONTRACT, IS RESPONSIBLE FOR THE DIMENSIONS AND DESIGN OF ADEQUATE CONNECTIONS, DETAILS, AND SATISFACTORY CONSTRUCTION OF ALL WORK.

J SUBMITTALS SHALL BE IN COMPLIANCE WITH CONTRACT REQUIREMENTS AND ACTUAL FIELD CONDITIONS. INCOMPLETE SUBMITTALS SHALL NOT BE REVISED BY THE GOVERNMENT AND RETURNED TO THE CONTRACTOR.

K REPRODUCED CONTRACT DRAWINGS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

L ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST OR DISTURBANCE TO OCCUPANTS, ADJACENT SITES OR BUILDINGS.

M DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHEN SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

N. DETAILS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYP." IMPLY ALL CONDITIONS ARE TREATED SIMILARLY.

O MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED ON THE DRAWINGS.

P SOME MASONRY AND STEEL STUD DIMENSIONS SHOWN ON THE DRAWINGS ARE NOMINAL DIMENSIONS. CONTRACTOR(S) TO FIELD VERIFY ALL DIMENSIONS.

Q EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE NOT GUARANTEED CONDITIONS, DIMENSIONS, AND MATERIALS REQUIRED FOR THE CONTRACTED WORK. REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO FABRICATION AND ERECTION.

R SUBMIT A PLAN WITH THE PROPOSED LOCATION TO THE COR FOR APPROVAL PRIOR TO THE START OF WORK. STAGING AREA WILL BE DEDICATED TO THIS PROJECT ONLY AND NOT SHARED WITH ANY OTHER CONSTRUCTION PROJECTS.

S PRIOR TO THE START OF WORK AT EACH BUILDING, OSHA COMPLIANT SIDEWALK OVERHEAD PROTECTION CANOPIES SHALL BE INSTALLED AT EVERY EXTERIOR DOOR AND WALKWAY BELOW THE SCAFFOLDING. ALL WORK AREAS, INCLUDING STAGING, ARE TO BE SECURED WITH AN EIGHT (8) FOOT HIGH TEMPORARY CHAIN LINK CONSTRUCTION FENCE.

T THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE SCAFFOLDING AND OVERHEAD PROTECTION CANOPY FOR APPROVAL PRIOR TO START OF WORK. SHOP DRAWINGS ARE TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. THE SCAFFOLDING SYSTEM AND DEBRIS NETTING SYSTEM SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS TO THE WORK AREA. THE PROJECT SUPERVISOR AND COMPETENT PERSON SHALL INSPECT THE SCAFFOLDING DAILY.

U. EXISTING ACCESS TUNNELS ARE PERMANENT STRUCTURES AND ARE NOT IN CONTRACT/SCOPE. FULLY PROTECT FROM DAMAGE THROUGHTOUT CONSTRUCTION.

W ABANDONED STORM DRAIN LEADERS LINES WILL BE REMOVED / DEMOLISHED. (SEE CIVIL DRAWINGS)

X ALL EQUIPMENT EXCEPT FOR THAT WHERE REFRIGERANT PIPING GOING THROUGH THE GUTTER/SOFFIT HAVE TO BE REMAIN OPERATIONAL FOR THE ENTIRE DURATION OF THE PROJECT.

Z IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE ARCHITECT AND COR.

AA WHERE EXISTING PARTITIONS OR SERVICES HAVE BEEN REMOVED, OR NEW SERVICES PENETRATE EXISTING SURFACES, THE OPENINGS SHALL BE PATCHED TO MATCH THE EXISTING SURFACE FINISH, TEXTURE, AND SHEEN.

AB WHERE NEW OPENINGS OCCUR IN A STRUCTURAL BEARING WALL, CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SUPPORTS AND/OR SHORING AS REQUIRED FOR INSTALLATION OF LINTELS.

AF ALL VOIDS IN WALL / PIPE PENETRATIONS FOR ROOF DRAINS & HVAC/MECHANICAL PIPING AND/OR DUCTWORK NEED TO BE SEALED PER MANUFACTURE'S RECOMMENDATION.

AJ THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL ACCESS DOORS, ACCESS PANELS AND FRAMES, INCLUDING, BUT NOT LIMITED TO THOSE SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND FURNISHED BY OTHER CONTRACTORS. ALL ACCESS DOORS AND PANEL LOCATIONS TO BE COORDINATED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PAINTING ALL ACCESS PANELS AND ACCESS DOORS. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PAINT COLORS WITH THE ARCHITECT PRIOR TO COMMENCING WITH THE WORK.

AL CONTRACTOR TO SUBMIT SHOP DRAWINGS PREPARED BY LICENSED PROFESSIONAL ENGINEER WHICH IS RETAINED BY PRIME CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT.

AM SLAB REQUIRED GROUND PENETRATION REBAR PRIOR TO DRILLING. (SEE SPECS.)

AN FIRE STOP SLAB, DECKS, RATED WALLS/FLOORS AND TEMPORARY CONSTRUCTION WALLS PRIOR TO END OF SHIFT.

AO FOR ALL VA ACTIVE SYSTEMS UNDER A MAINTENANCE CONTRACT, THE BUILDOUT IS TO BE COMPLETED BY THE PRIME CONTRACTOR. TIE-INS ARE PART OF THE GC S CONTRACT; THE PRIME CONTRACTOR IS TO HIRE VA MAINTENANCE CONTRACTOR FOR FINAL TIE-IN AND ACCEPTANCE TO ENSURE WARRANTIES CAN REMAIN IN EFFECT WITHOUT CONFLICT. THE PRIME CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING TO ENSURE FUNCTION & COMPATIBILITY WITH EXISTING VA SYSTEMS AS WELL AS INFRASTRUCTURE BUILD-OUT AND EQUIPMENT MAKE READY. THIS WOULD INCLUDE ALL TEMPORARY INSTALLATION & REMOVAL WITHIN THE CONSTRUCTION/CONTRACT AREA, SO AREAS ARE NOT DAMAGED BY OTHERS. THE PRIME CONTRACTOR CAN PERFORM THE WORK THEMSELVES, SUBCONTRACTORS, OR HIRE THE VA MAINTENANCE CONTRACTOR DIRECTLY.

AP ALL LUMBER / BLOCKING USED FOR WALL CONSTRUCTION MUST BE FIRE RETARDANT TREATED WOOD.

AQ GC TO PROVIDE & MAINTAIN A PORT-A-POTTY WITH HAND SANITIZER.

AR GC TO STOP WORK IN AREA S WHERE HISTORICAL ITEMS ARE FOUND DURING DEMOLITION WHICH CAN BE SALVAGED. GC TO NOTIFY COR AS SOON AS FOUND FOR FURTHER DIRECTION ON HOW TO PROCEED.

AS ENSURE THAT THE CONTRACTOR IS RESPONSIBLE FOR HAULING AND DISPOSING OF ALL METAL (PIPING, CONDUIT, FIXTURES, DUCTWORK, EQUIPMENT, ETC.) TO THE ON-SITE RECYCLING YARD IN T21 AS DIRECTED BY COR.

AT EC TO ENSURE ANY AND ALL PENETRATIONS INTO BUILDING ARE SEALED TO PREVENT ANY WATER INSTRUSION PER INDUSTRY STANDARDS AND THE DESIGN SPECIFICATIONS. ADDITIONALLY, ANY EXISTING PENETRATIONS THAT MIGHT BE SEALED IMPROPERLY OR IN NEED OR REPAIR AND ARE DISCOVERED DURING THE SCOPE OF THE WORK SHALL BE NOTED AND PROVIDED TO THE GC, ARCHITECT, AND CONSTRUCTION MANAGER IN WRITING.

GENERAL DEMOLITION NOTES

A THE SCOPE OF DEMOLITION WORK, SPECIFICALLY CUTTING AND PATCHING, SHALL NOT BE LIMITED TO AREAS BEING RENOVATED BUT SHALL INCLUDE ALL WORK NECESSARY TO COMPLETE THE FINISHED PROJECT TO THE SATISFACTION OF THE GOVERNMENT.

B PRIOR TO START OF DEMO, INSPECT AREA'S IN WHICH WORK WILL BE PERFORMED. NOTE EXISTING CONDITIONS OF STRUCTURE SURFACES, EQUIPMENT, OR SURROUNDING PROPERTY THAT COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM SELECTIVE DEMOLITION WORK; FILE WITH GOVERNMENT PRIOR TO STARTING WORK.

C THE GOVERNMENT ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF THE SITES OR STRUCTURES TO BE DEMOLISHED OR REMOVED.

D ALL DEMOLITION ACTIVITIES, CUTTING AND PATCHING REQUIRED IN CONNECTION WITH THE WORK SHALL BE PERFORMED BY MECHANICS OF THE SPECIFIC TRADE INVOLVED AND AS REQUIRED TO EXECUTE EACH LINE OF WORK. ALL PATCHING SHALL BE FINISHED TO MATCH ADJACENT SURFACES EITHER NEW OR EXISTING TO REMAIN.

E CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH WALK WAYS IN OTHER ADJACENT OCCUPIED AND ACTIVE FACILITIES.

F PROVIDE BARRICADES, WARNING SIGNS, AND LIGHTS AT OPENINGS AND OTHER AREAS HAZARDOUS TO PEDESTRIANS AND TRAFFIC. KEEP CONSTRUCTION DEBRIS CLEAR OF TRAFFIC AREAS. PROJECT SITE SHALL REMAIN SECURED AT ALL TIMES. CONTRACTOR SHALL INSTALL TEMPORARY FENCING SO THAT A CLOSED PERIMETER OF WORK IS MAINTAINED AT ALL TIMES. TEMPORARY FENCING SHALL NOT BE ADJUSTED FOR EQUIPMENT / CONSTRUCTION UNLESS APPROVED BY THE COR. CONTRACTOR SHALL NOTIFY THE COR 14 CALENDAR DAYS IN ADVANCE OF ANY REQUESTED CHANGE IN FENCE LOCATION.

G ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE REGULATIONS AND GUIDELINES SET FORTH BY ALL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES, LATEST EDITION.

H. CONTRACTOR SHALL REMOVE AND RELOCATE ALL EXISTING CONSTRUCTION, EQUIPMENT, CONDUITS, PIPING, WIRING, UTILITIES, ETC THAT MAY INTERFERE WITH NEW CONSTRUCTION AT NO ADDITIONAL COST TO THE GOVERNMENT.

I THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING ITEMS TO REMAIN AND SHALL REPAIR AND/OR REPLACE ANY ITEM DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.

J ALL DEMOLITION MATERIALS AND DEBRIS SHALL BE LEGALLY DISPOSED OF OFF GOVERNMENT PROPERTY.

K DUST CONTROL SHALL BE IN ACCORDANCE W/ PA STATE STANDARDS AND SPECIFICATIONS.

L ANY EXISTING CONSTRUCTION THAT IS TO REMAIN IN PLACE IF DAMAGED DURING PERFORMANCE OF WORK UNDER THIS CONTRACT SHALL BE RESTORED TO IT'S ORIGINAL CONDITION TO THE SATISFACTION OF THE GOVERNMENT AND AT THE CONTRACTORS SOLE EXPENSE.

M CONTRACTOR IS RESPONSIBLE FOR MOWING AND MAINTAINING ALL AREAS WITHIN THE PROJECT LIMITS FROM THE NOTICE TO PROCEED DATE THROUGHOUT THE DURATION OF THE PROJECT. MOW AREAS TO A MAXIMUM AVERAGE HEIGHT OF 3-INCHES FOR SPRING/SUMMER MAINTENANCE AND TO A MAXIMUM AVERAGE OF 6-INCHES FOR FALL/WINTER MAINTENANCE.

N. ALL DESIGNS WILL BE DEVELOPED IN ACCORDANCE WITH VA GUIDELINES AND SPECIFICATIONS OUTLINED IN THE SCOPE OF WORK FOR PROJECT # 632-21-114 AS WELL AS THE PHYSICAL SECURITY & RESILIENCY DESIGN MANUAL COMPLYING WITH CHAPTER 8 BUILDING ENVELOPE REQUIREMENTS.

0 PER SECTION 6.3.2.1 ALTERATION / RENOVATION OF EXISTING FACILITIES REGARDING FENESTRATION: FOR RENOVATIONS IN WHICH THE GLAZING IS NOT REPLACED, USE A MECHANICALLY ANCHORED OR WET GLAZED ATTACHED MINIMUM 7-MIL THICK ANTI-SHATTER FILM APPLIED TO THE INSIDE FACE OF THE GLASS (OR EQUIVALENT) . PERFORMANCE OF THE SELECTED SYSTEM MUST BE DEMONSTRATED WITH GLAZING HAZARD CALCULATIONS OR BLAST TEST DATA, WHICH MUST BE OF SIMILAR SIZED GLASS PANELS AND BLAST LOAD INTENSITY, IN ACCORDANCE WITH ASTM F1642.

P. PER SECTION 6.5.2 ALTERATION/RENOVATION OF EXISTING FACILITIES REGARDING ROOF STRUCTURE: FOR UPGRADES IN WHICH AN ELEMENT OF THE ROOF STRUCTURE IS BEING REPLACED, THE REPLACEMENT ELEMENT AND ITS CONNECTIONS MUST COMPLY WITH THE REQUIREMENTS DEFINED IN SECTION 6.5.1 ROOF STRUCTURE. HOWEVER, WHEN EXISTING ROOF FRAMING IS NOT REPLACED OR STRENGTHENED ANY REPLACED DECKING MUST BE DESIGNED TO THE CALCULATED BLAST LOADS (AS LIMITED BY THE GP VALUES), BUT THE DECK CAPACITY MUST BE NO GREATER THAN THE CAPACITY OF THE EXISTING BEAMS THAT SUPPORT THE DECK.

Q CIH WILL REVIEW ALL ABATEMENT REPORTS AND TESTS REQUIRED BY THE STATEMENT OF WORK AND IM COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS AND SPECIFICATIONS. NOTE: THE COMMISIONNG PROCESS DOES NOT TAKE AWAY OR REDUCE THE RESPOSIBILITY OF THE CONTRACTOR TO COMPLY WITH THEIR STATED REQUIREMENTS.

Revisions:	Date:

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KEAST & HOOD STRUCTURAL ENGINEERS

NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
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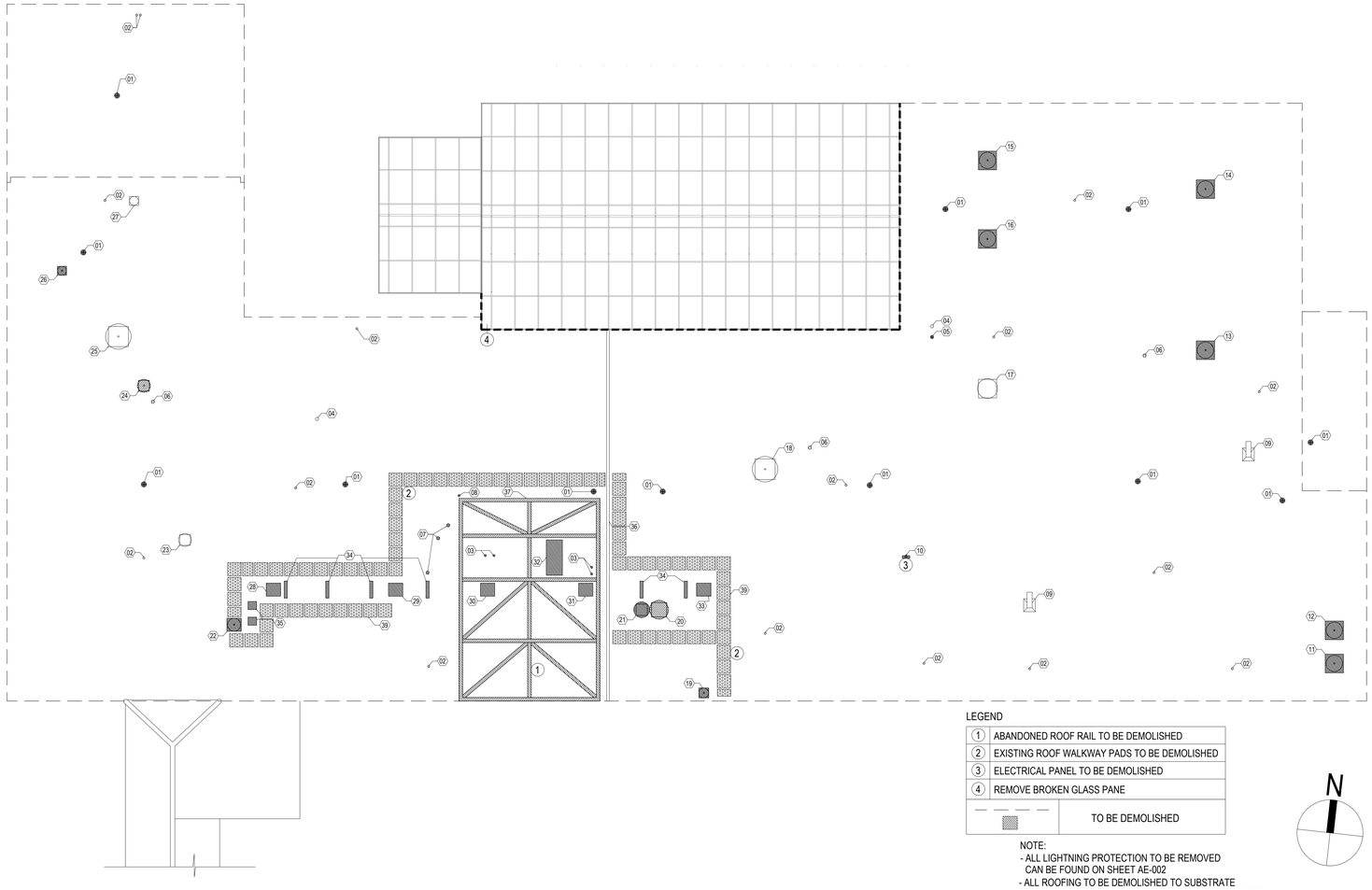
REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
GENERAL INFORMATION	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 69 / 139
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: G-002

VA FORM 08 - 6231



EQUIPMENT SCHEDULE - BUILDING 69		
TAG	SYMBOL	DESCRIPTION
01		ROOF DRAIN
02		PLUMBING VENT
03		ABANDONED ROOF CAP
04		EXHAUST VENT
05		ROOFJACK ROUND
06		RECEPTACLE
07		ABANDONED ROOF CAP
08		ABANDONED ROOF RAIL
09		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
29		ABANDONED ROOF CAP
30		ABANDONED ROOF CAP
31		ABANDONED ROOF CAP
32		ABANDONED ROOF CAP
33		ABANDONED ROOF CAP
34		ABANDONED ROOF RAIL
35		ABANDONED ROOF CAP
36		EXISTING EXPANSION JOINT
37		ABANDONED ROOF RAIL
-	-	NOT USED
39		EXISTING ROOF WALKWAY PADS

NOTE:
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMO

LEGEND

1	ABANDONED ROOF RAIL TO BE DEMOLISHED
2	EXISTING ROOF WALKWAY PADS TO BE DEMOLISHED
3	ELECTRICAL PANEL TO BE DEMOLISHED
4	REMOVE BROKEN GLASS PANE
	TO BE DEMOLISHED

NOTE:
- ALL LIGHTNING PROTECTION TO BE REMOVED CAN BE FOUND ON SHEET AE-002
- ALL ROOFING TO BE DEMOLISHED TO SUBSTRATE
- REMOVE EXISTING SEAL AT SILL TO GLAZING CONNECTING
- REMOVE EXISTING METAL SILL
- REMOVE EXISTING METAL GUTTER

N

1 DEMOLITION ROOF PLAN - BUILDING 69
1/8" = 1'-0"

Revisions:	Date:

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA TIMOTHY J. HOGAN RA-018179

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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

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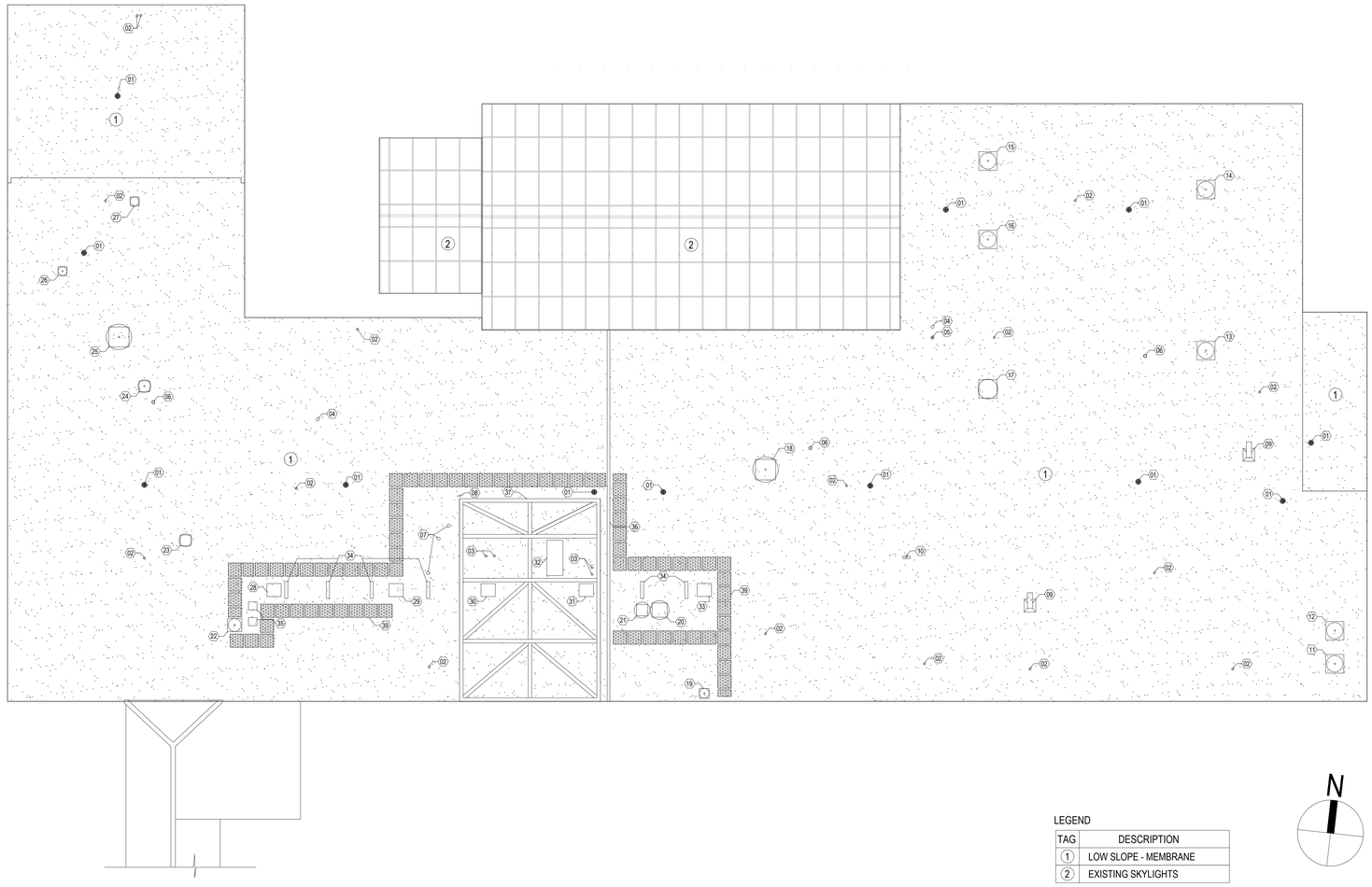

1 EXISTING CONDITIONS PLAN - BUILDING 69
3/32" = 1'-0"

LEGEND

TAG	DESCRIPTION
1	LOW SLOPE - MEMBRANE
2	EXISTING SKYLIGHTS

NOTE:
- LIGHTING PROTECTION DEMOLITION INFORMATION LOCATED ON SHEET ED-100

N

EQUIPMENT SCHEDULE - BUILDING 69

TAG	SYMBOL	DESCRIPTION
01		ROOF DRAIN
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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
29		ABANDONED ROOF CAP
30		ABANDONED ROOF CAP
31		ABANDONED ROOF CAP
32		ABANDONED ROOF CAP
33		ABANDONED ROOF CAP
34		ABANDONED ROOF RAIL
35		ABANDONED ROOF CAP
36		EXISTING EXPANSION JOINT
37		ABANDONED ROOF RAIL
-	-	NOT USED
39		EXISTING ROOF WALKWAY PADS

NOTE:
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMO

Revisions:	Date:

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING CONDITIONS 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

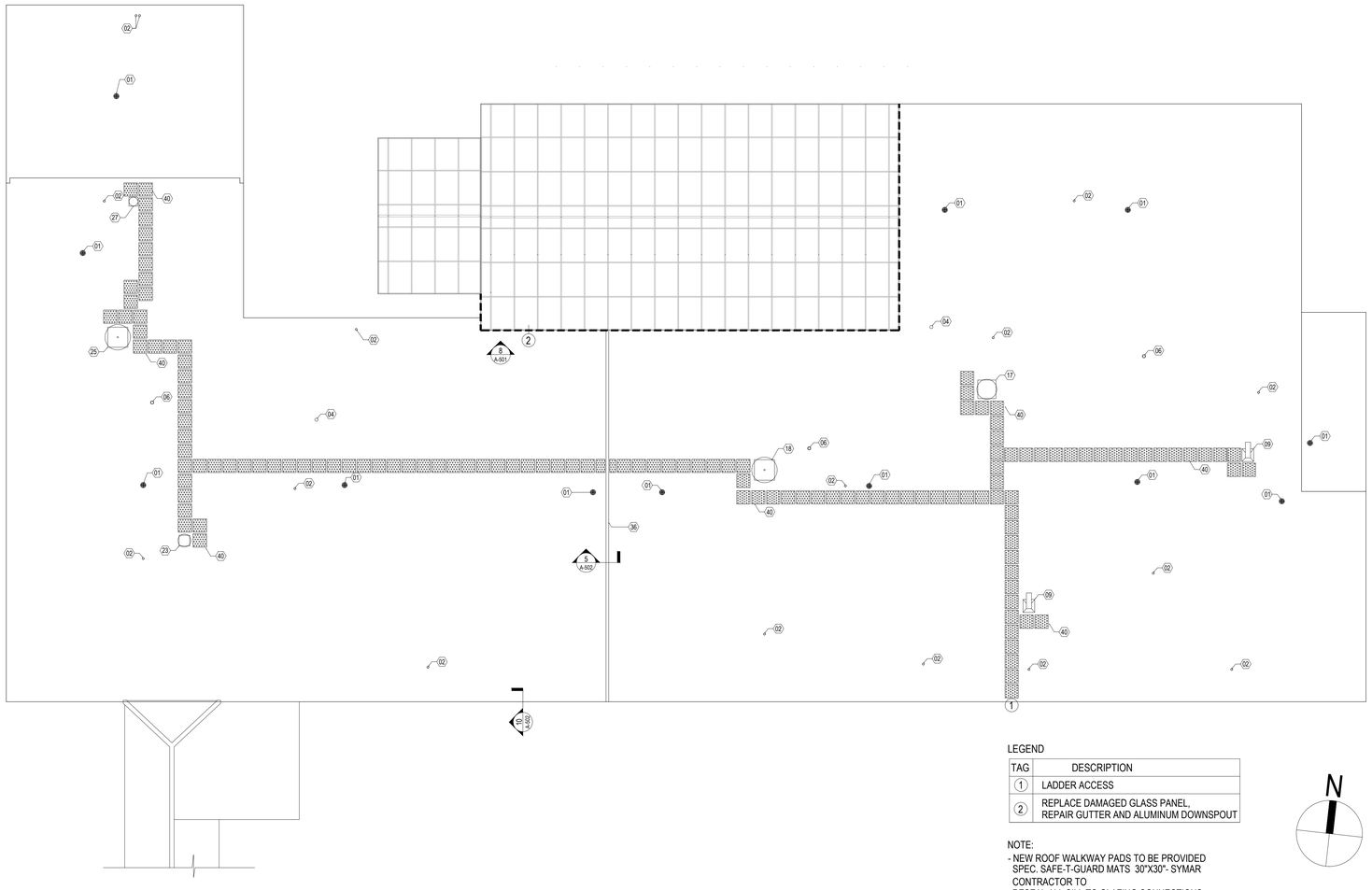
Drawn: JA

Project Number: 542-23-201

Building Number: 69

Drawing Number: A-101

VA FORM 08 - 6231



EQUIPMENT SCHEDULE - BUILDING 69			
TAG	SYMBOL	DESCRIPTION	
01		ROOF DRAIN	SEE DETAIL 1 SHEET A-502
02		PLUMBING VENT	SEE DETAIL 7 SHEET A-501
-	-	NOT USED	-
04		EXHAUST VENT	-
-	-	NOT USED	-
06		RECEPTACLE	-
-	-	NOT USED	-
-	-	NOT USED	-
09		GOOSE NECK EXHAUST ROOF VENT	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
17		UPBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
18		DOWNBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
23		UPBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
-	-	NOT USED	-
25		DOWNBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
-	-	NOT USED	-
27		UPBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
		NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
36		EXISTING EXPANSION JOINT	SEE DETAIL 5 SHEET A-502
-	-	NOT USED	-
-	-	NOT USED	-
-	-	NOT USED	-
40		NEW ROOF WALKWAY PADS TO BE PROVIDED	-

NOTE:
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMO

LEGEND

TAG	DESCRIPTION
1	LADDER ACCESS
2	REPLACE DAMAGED GLASS PANEL. REPAIR GUTTER AND ALUMINUM DOWNSPOUT

NOTE:
- NEW ROOF WALKWAY PADS TO BE PROVIDED SPEC. SAFE-T-GUARD MATS 30"X30"- SYMAR CONTRACTOR TO
- RESEAL ALL SILL TO GLAZING CONNECTIONS
- REPLACE METAL SILLS
- REPLACE METAL GUTTER / REPOSITION DOWN SPOUT

N

1 NEW WORK PLAN - BUILDING 69
3/32" = 1'-0"

Revisions:	Date:

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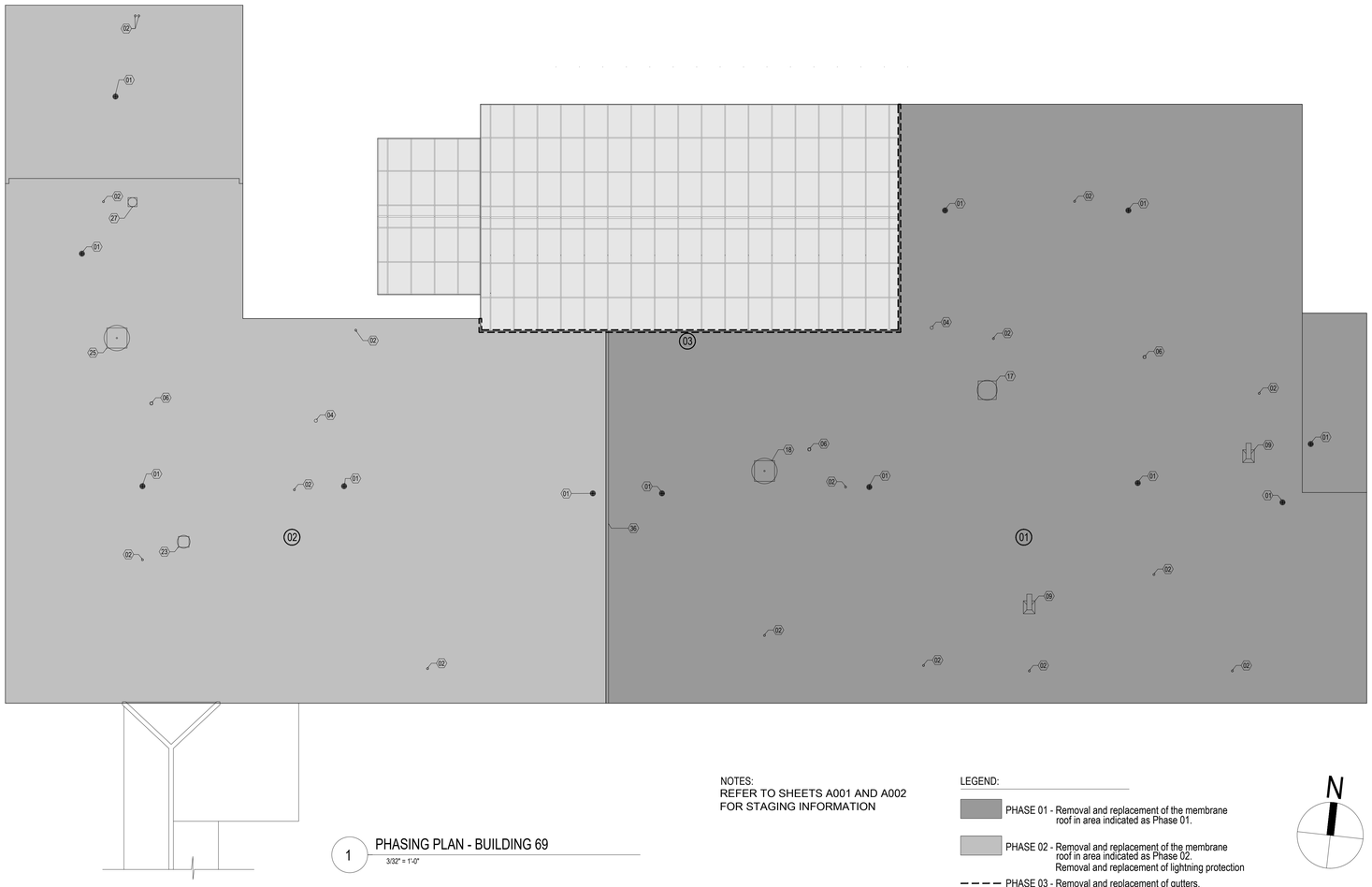
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
NEW WORK PLAN - BUILDING 69	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 69
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-102

VA FORM 08 - 6231



1 PHASING PLAN - BUILDING 69
3/32" = 1'-0"

NOTES:
REFER TO SHEETS A001 AND A002
FOR STAGING INFORMATION

LEGEND:

PHASE 01 - Removal and replacement of the membrane roof in area indicated as Phase 01.

PHASE 02 - Removal and replacement of the membrane roof in area indicated as Phase 02. Removal and replacement of lightning protection

PHASE 03 - Removal and replacement of gutters, downspouts, sills indicated as Phase 03.

N

EQUIPMENT SCHEDULE - BUILDING 69		
TAG	SYMBOL	DESCRIPTION
01	●	ROOF DRAIN
02	⊕	PLUMBING VENT
-	-	NOT USED
04	○	EXHAUST VENT
06	⊙	RE-DIRECTED
-	-	NOT USED
-	-	NOT USED
09		GOOSE NECK EXHAUST ROOF VENT
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
17		UPBLAST EXHAUST FAN
18		DOWNBLAST EXHAUST FAN
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
23		UPBLAST EXHAUST FAN
-	-	NOT USED
25		DOWNBLAST EXHAUST FAN
-	-	NOT USED
27		UPBLAST EXHAUST FAN
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED
36		EXISTING EXPANSION JOINT
-	-	NOT USED
-	-	NOT USED
-	-	NOT USED

NOTE:
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMO

Revisions:	Date:

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA
MICHAEL J. HOGAN
RA-026319

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
PHASING PLAN - BUILDING 69	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 69
		Location: COATESVILLE VAMC	Drawing Number: A-103
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	

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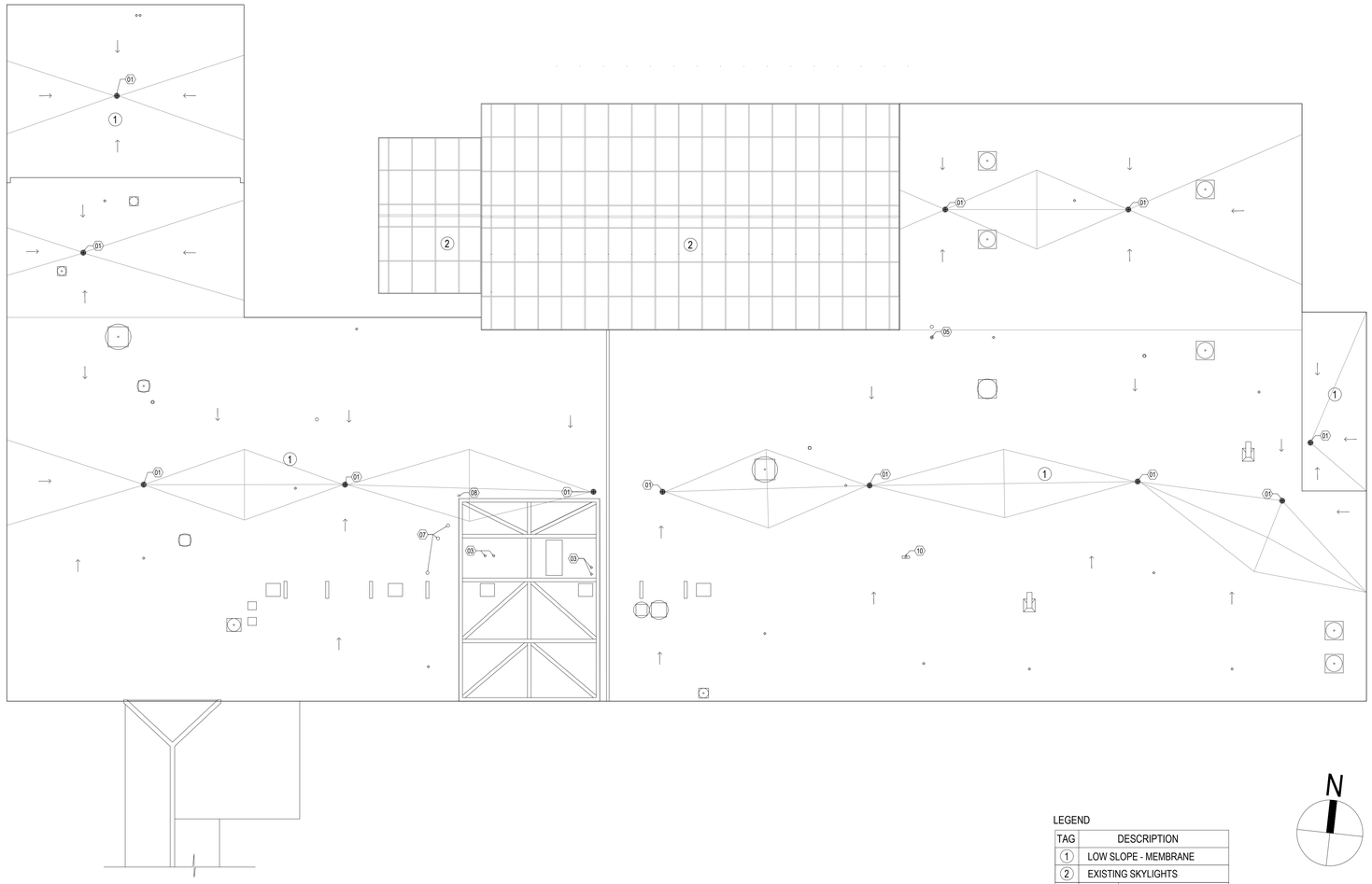

LEGEND

TAG	DESCRIPTION
1	LOW SLOPE - MEMBRANE
2	EXISTING SKYLIGHTS
01	ROOF DRAIN

N

1 EXISTING DRAINAGE PLAN - BUILDING 69

3/32" = 1'-0"

Revisions:	Date:

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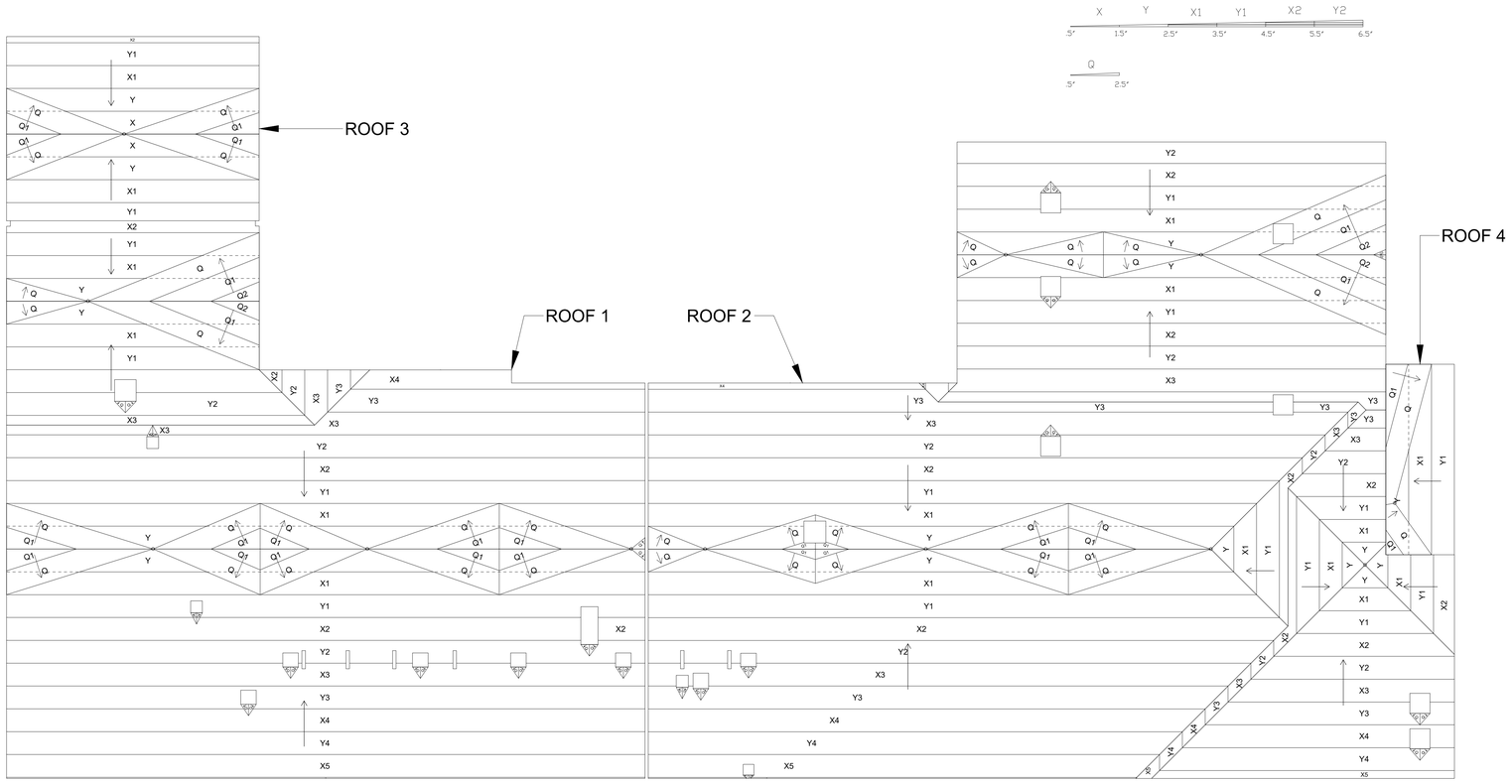
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
EXISTING DRAINAGE PLAN - BUILDING 69	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 69
		Location: COATESVILLE VAMC	Drawing Number: A-104

Issue Date	Checked	Drawn
05/01/25	DT / TH	JA

VA FORM 08 - 6231



1 NEW WORK DRAINAGE PLAN - BUILDING 69

3/32" = 1'-0"

Revisions:	Date:

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA JAMES A. HOGAN No. 16611

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
NEW WORK DRAINAGE PLAN - BUILDING 69	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 69
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-105

VA FORM 08 - 6231

HATCH STYLES

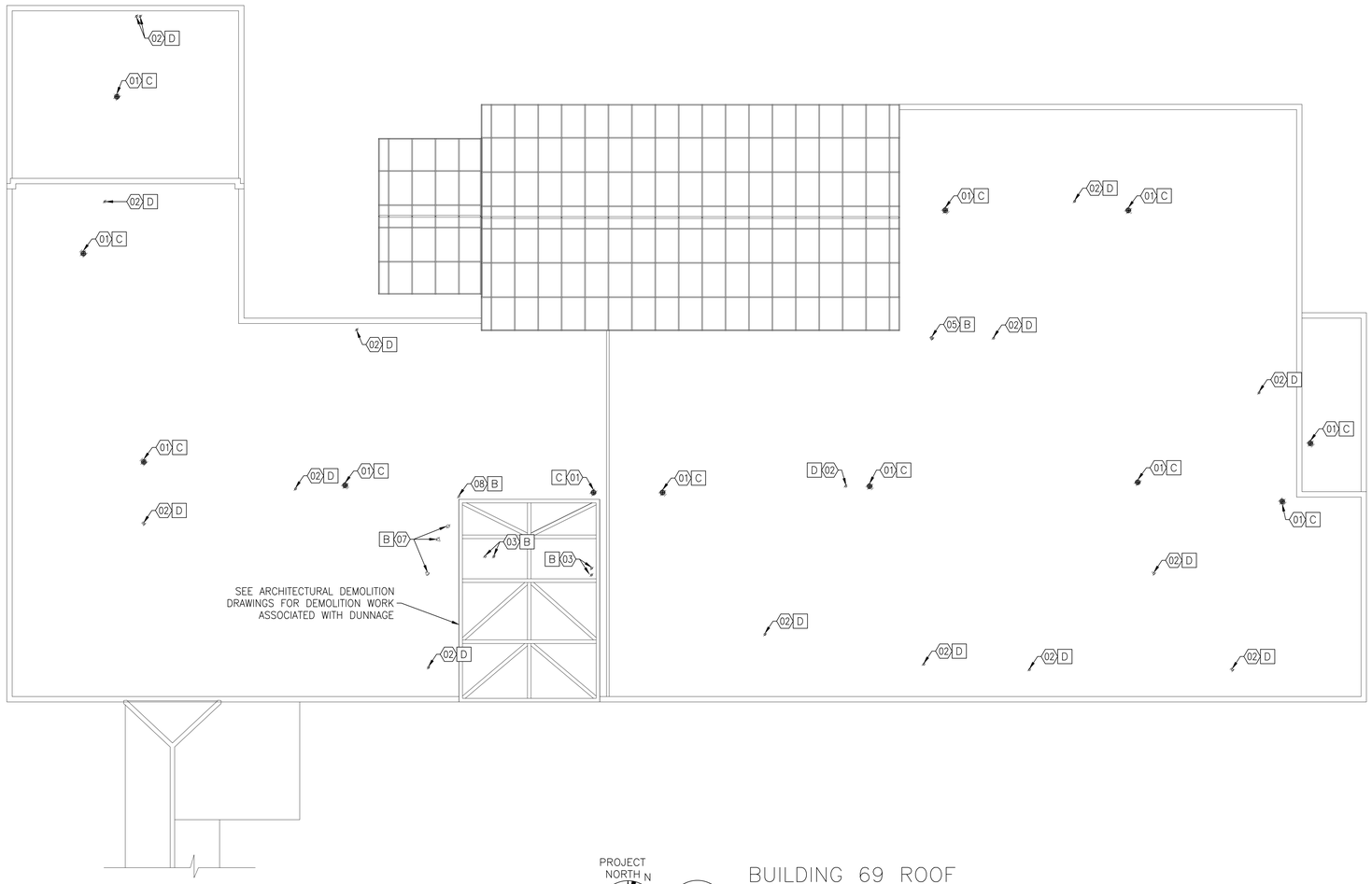
	EQUIPMENT TO BE REMOVED AND PRESERVED FOR REINSTALLATION UNLESS OTHERWISE NOTED

GENERAL NOTE

1. CONTRACTOR SHALL REMOVE EXISTING ROOF EQUIPMENT AND ASSOCIATED APPURTENANCES AS INDICATED ON DRAWINGS. IN CASE EXISTING ROOF EQUIPMENT NOTED TO BE PRESERVED IS DAMAGED CONTRACTOR SHALL PROVIDE AND INSTALL NEW EQUIPMENT TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE STATION.

KEYED DEMOLITION NOTES

- B EQUIPMENT TO BE DEMOLISHED AND NOT PRESERVED FOR REINSTALLATION.
- C CONTRACTOR SHALL REPLACE DRAIN EQUIPMENT AT NOTED LOCATIONS. DRAIN PENETRATIONS SHALL BE MAINTAINED.
- D CONTRACTOR SHALL REPLACE BOOT AND ASSOCIATED FLASHING AT NOTED LOCATION. PENETRATION AND VENT PIPING SHALL REMAIN.



PROJECT NORTH N

1 PD-100

BUILDING 69 ROOF PLUMBING DEMOLITION PLAN

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

EQUIPMENT SCHEDULE – BUILDING 69			
TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		ABANDONED ROOF CAP	N/A
04		EXHAUST VENT	YES
05		ROOFJACK ROUND	N/A
06		RECEPTACLE	N/A
07		ABANDONED ROOF CAP	N/A
08		ABANDONED ROOF RAIL	N/A
09		GOOSE NECK EXHAUST ROOF VENT	YES
10		ELECTRICAL PANEL	N/A
11		DOWNBLAST EXHAUST FAN	N/A
12		DOWNBLAST EXHAUST FAN	N/A
13		DOWNBLAST EXHAUST FAN	N/A
14		DOWNBLAST EXHAUST FAN	N/A
15		DOWNBLAST EXHAUST FAN	N/A
16		DOWNBLAST EXHAUST FAN	N/A
17		UPBLAST EXHAUST FAN	NO
18		DOWNBLAST EXHAUST FAN	YES
19		DOWNBLAST EXHAUST FAN	N/A
20		DOWNBLAST EXHAUST FAN	N/A
21		DOWNBLAST EXHAUST FAN	N/A
22		DOWNBLAST EXHAUST FAN	N/A
23		UPBLAST EXHAUST FAN	YES
24		DOWNBLAST EXHAUST FAN	N/A
25		DOWNBLAST EXHAUST FAN	YES
26		DOWNBLAST EXHAUST FAN	N/A
27		UPBLAST EXHAUST FAN	YES
28		ABANDONED ROOF CAP	N/A
29		ABANDONED ROOF CAP	N/A
30		ABANDONED ROOF CAP	N/A
31		ABANDONED ROOF CAP	N/A
32		ABANDONED ROOF CAP	N/A
33		ABANDONED ROOF CAP	N/A
34		ABANDONED ROOF RAIL	N/A
35		ABANDONED ROOF CAP	N/A
36		EXISTING EXPANSION JOINT	N/A
37		ABANDONED ROOF RAIL	N/A

NOTE

REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF PLUMBING EQUIPMENT.

Revisions:	Date:

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REGISTERED PROFESSIONAL Engineer No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF PLUMBING 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: PD-100
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: E.G.W.	

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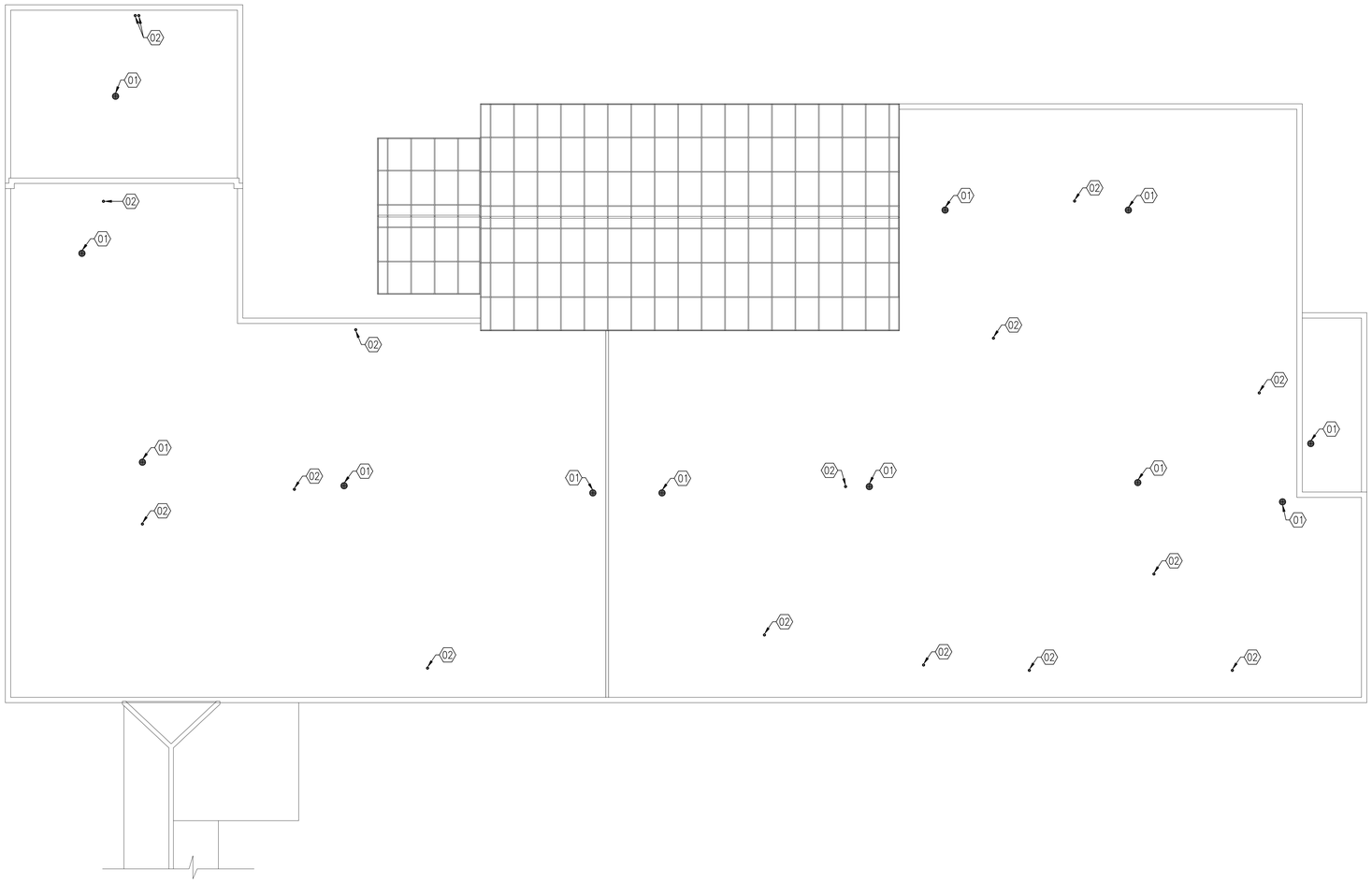

PROJECT NORTH N

1 / PL-100

BUILDING 69 ROOF PLUMBING NEW WORK PLAN

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

GENERAL NOTES

I. CONTRACTOR SHALL REINSTALL REMOVED EQUIPMENT. CONTRACTOR SHALL REPLACE ANY DAMAGED EQUIPMENT TO MATCH EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE STATION.

II. CONTRACTOR SHALL ENSURE PIPING CURBS ARE A MINIMUM OF 12" ABOVE ROOF EPDM. CONTRACTOR SHALL EXTEND CURBS OF PIPING WHICH ARE NOT A MINIMUM OF 12" ABOVE ROOF EPDM.

III. CONTRACTOR SHALL PROVIDE ROOF DRAIN ASSEMBLY BASIS OF DESIGN "ZURN RD2150" OR APPROVED EQUAL. ROOF DRAIN ASSEMBLY SHALL BE CAST IRON.

IV. CONTRACTOR SHALL REPLACE AND INSTALL DRAIN EQUIPMENT AT NOTED LOCATIONS. DRAIN PENETRATIONS SHALL BE MAINTAINED.

V. CONTRACTOR SHALL REPLACE BOOT AND FLASHING FOR PIPING THAT HAS BEEN PRESERVED.

EQUIPMENT SCHEDULE – BUILDING 69

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		ABANDONED ROOF CAP	N/A
04		EXHAUST VENT	YES
05		ROOFJACK ROUND	N/A
06		RECEPTACLE	N/A
07		ABANDONED ROOF CAP	N/A
08		ABANDONED ROOF RAIL	N/A
09		GOOSE NECK EXHAUST ROOF VENT	YES
10		ELECTRICAL PANEL	N/A
11		DOWNBLAST EXHAUST FAN	N/A
12		DOWNBLAST EXHAUST FAN	N/A
13		DOWNBLAST EXHAUST FAN	N/A
14		DOWNBLAST EXHAUST FAN	N/A
15		DOWNBLAST EXHAUST FAN	N/A
16		DOWNBLAST EXHAUST FAN	N/A
17		UPBLAST EXHAUST FAN	NO
18		DOWNBLAST EXHAUST FAN	YES
19		DOWNBLAST EXHAUST FAN	N/A
20		DOWNBLAST EXHAUST FAN	N/A
21		DOWNBLAST EXHAUST FAN	N/A
22		DOWNBLAST EXHAUST FAN	N/A
23		UPBLAST EXHAUST FAN	YES
24		DOWNBLAST EXHAUST FAN	N/A
25		DOWNBLAST EXHAUST FAN	YES
26		DOWNBLAST EXHAUST FAN	N/A
27		UPBLAST EXHAUST FAN	YES
28		ABANDONED ROOF CAP	N/A
29		ABANDONED ROOF CAP	N/A
30		ABANDONED ROOF CAP	N/A
31		ABANDONED ROOF CAP	N/A
32		ABANDONED ROOF CAP	N/A
33		ABANDONED ROOF CAP	N/A
34		ABANDONED ROOF RAIL	N/A
35		ABANDONED ROOF CAP	N/A
36		EXISTING EXPANSION JOINT	N/A
37		ABANDONED ROOF RAIL	N/A

NOTE

REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF PLUMBING EQUIPMENT.

Revisions:	Date:

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REGISTERED PROFESSIONAL ENGINEER No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF PLUMBING NEW WORK 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: PL-100

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: E.G.W.

VA FORM 08 - 6231

HATCH STYLES

	EQUIPMENT TO BE REMOVED AND PRESERVED FOR REINSTALLATION UNLESS OTHERWISE NOTED

KEYED DEMOLITION NOTES

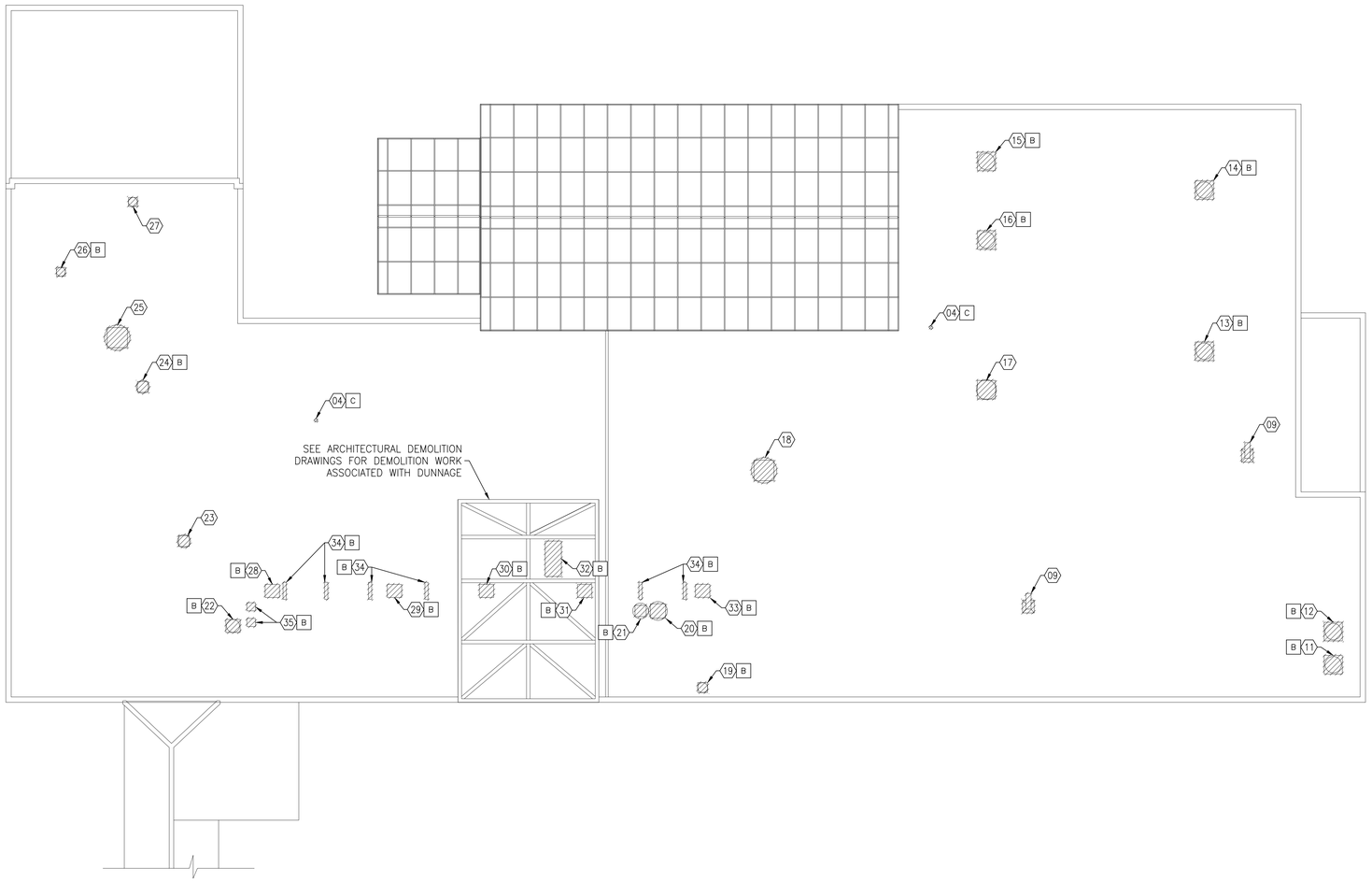
B EQUIPMENT TO BE DEMOLISHED AND NOT PRESERVED FOR REINSTALLATION.

C CONTRACTOR SHALL REPLACE BOOT AND ASSOCIATED FLASHING AT NOTED LOCATION. PENETRATION AND VENT PIPING SHALL REMAIN.

GENERAL NOTES

I. CONTRACTOR SHALL REMOVE EXISTING ROOF EQUIPMENT AND ASSOCIATED APPURTENANCES AS INDICATED ON DRAWINGS. IN CASE EXISTING ROOF EQUIPMENT NOTED TO BE PRESERVED IS DAMAGED CONTRACTOR SHALL PROVIDE AND INSTALL NEW EQUIPMENT TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE STATION.

II. EQUIPMENT DESIGNATED TO BE REMOVED AND PRESERVED FOR REINSTALLATION FOR THE PURPOSE OF ROOF REPLACEMENT MUST BE COORDINATED WITH THE COR PRIOR TO REMOVAL. EQUIPMENT MUST BE REMOVED DURING OFF HOURS AND REINSTALLED PRIOR TO THE START OF BUSINESS HOURS TO PREVENT INTERRUPTION OF NORMAL BUILDING OPERATIONS.



PROJECT NORTH N

1 MD-100 BUILDING 69 ROOF MECHANICAL DEMOLITION PLAN

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

EQUIPMENT SCHEDULE – BUILDING 69

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		ABANDONED ROOF CAP	N/A
04		EXHAUST VENT	YES
05		ROOFJACK ROUND	N/A
06		RECEPTACLE	N/A
07		ABANDONED ROOF CAP	N/A
08		ABANDONED ROOF RAIL	N/A
09		GOOSE NECK EXHAUST ROOF VENT	YES
10		ELECTRICAL PANEL	N/A
11		DOWNBLAST EXHAUST FAN	N/A
12		DOWNBLAST EXHAUST FAN	N/A
13		DOWNBLAST EXHAUST FAN	N/A
14		DOWNBLAST EXHAUST FAN	N/A
15		DOWNBLAST EXHAUST FAN	N/A
16		DOWNBLAST EXHAUST FAN	N/A
17		UPBLAST EXHAUST FAN	NO
18		DOWNBLAST EXHAUST FAN	YES
19		DOWNBLAST EXHAUST FAN	N/A
20		DOWNBLAST EXHAUST FAN	N/A
21		DOWNBLAST EXHAUST FAN	N/A
22		DOWNBLAST EXHAUST FAN	N/A
23		UPBLAST EXHAUST FAN	YES
24		DOWNBLAST EXHAUST FAN	N/A
25		DOWNBLAST EXHAUST FAN	YES
26		DOWNBLAST EXHAUST FAN	N/A
27		UPBLAST EXHAUST FAN	YES
28		ABANDONED ROOF CAP	N/A
29		ABANDONED ROOF CAP	N/A
30		ABANDONED ROOF CAP	N/A
31		ABANDONED ROOF CAP	N/A
32		ABANDONED ROOF CAP	N/A
33		ABANDONED ROOF CAP	N/A
34		ABANDONED ROOF RAIL	N/A
35		ABANDONED ROOF CAP	N/A
36		EXISTING EXPANSION JOINT	N/A
37		ABANDONED ROOF RAIL	N/A

NOTE

REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF PLUMBING EQUIPMENT.

Revisions:	Date:

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER No. PE061114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF MECHANICAL DEMOLITION PLAN - BUILDING 69

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

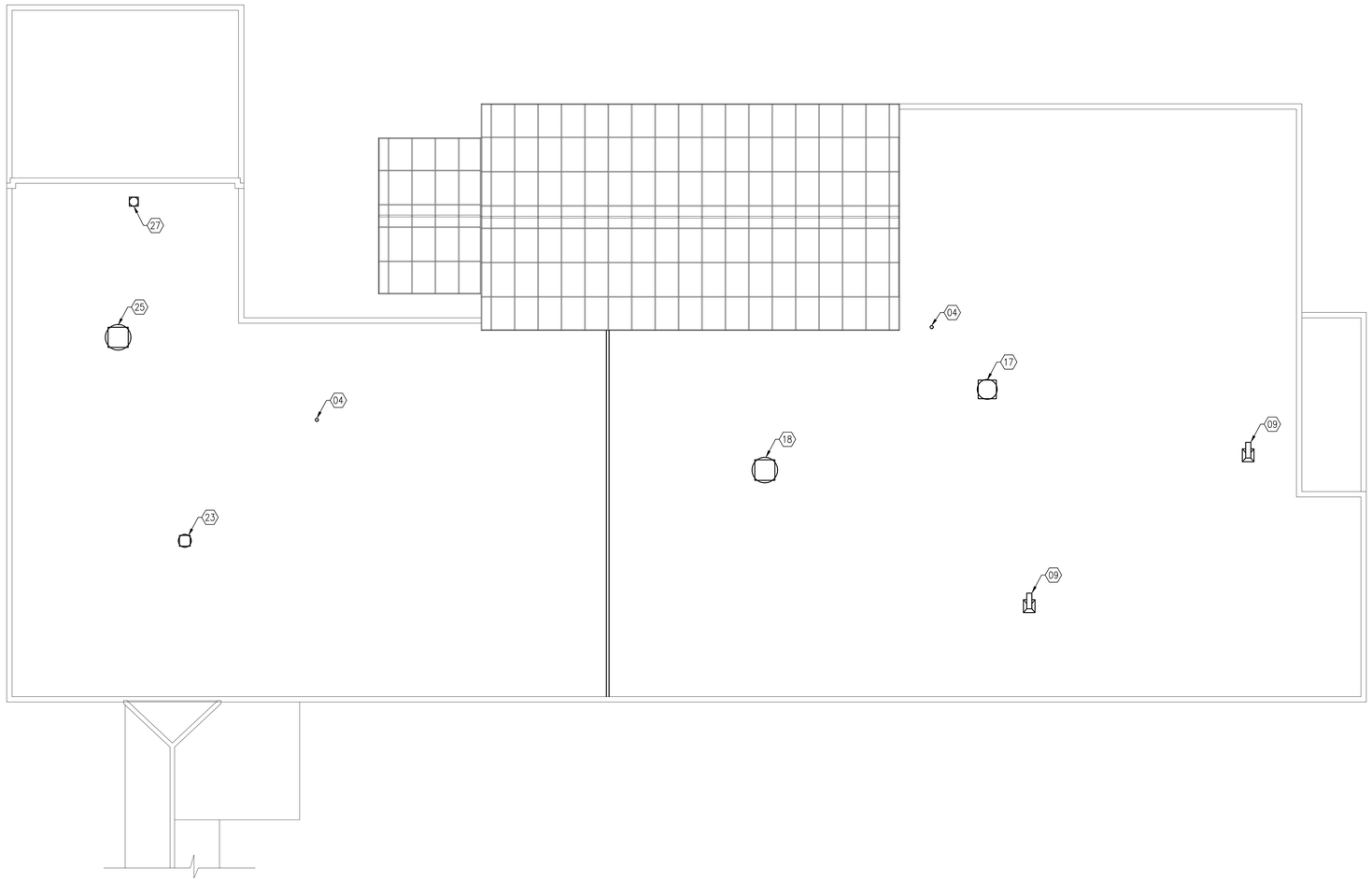
Building Number: 69

Location: COATESVILLE VAMC

Drawing Number: MD-100

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: E.G.W.

VA FORM 08 - 6231



PROJECT NORTH N

1
M-100

BUILDING 69 ROOF MECHANICAL NEW WORK PLAN

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

GENERAL NOTES

I. CONTRACTOR SHALL REINSTALL REMOVED EQUIPMENT. CONTRACTOR SHALL REPLACE ANY DAMAGED EQUIPMENT TO MATCH EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE STATION.

II. CONTRACTOR SHALL ENSURE EQUIPMENT CURBS ARE A MINIMUM OF 12" ABOVE ROOF EPDM. CONTRACTOR SHALL EXTEND CURBS OF EQUIPMENT WHICH ARE NOT A MINIMUM OF 12" ABOVE ROOF EPDM.

III. EQUIPMENT DESIGNATED TO BE REMOVED AND PRESERVED FOR REINSTALLATION FOR THE PURPOSE OF ROOF REPLACEMENT MUST BE COORDINATED WITH THE COR PRIOR TO REMOVAL. EQUIPMENT MUST BE REMOVED DURING OFF HOURS AND REINSTALLED PRIOR TO THE START OF BUSINESS HOURS TO PREVENT INTERRUPTION OF NORMAL BUILDING OPERATIONS.

IV. CONTRACTOR SHALL REPLACE BOOT AND FLASHING FOR PIPING THAT HAS BEEN PRESERVED.

EQUIPMENT SCHEDULE – BUILDING 69

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		ABANDONED ROOF CAP	N/A
04		EXHAUST VENT	YES
05		ROOFJACK ROUND	N/A
06		RECEPTACLE	N/A
07		ABANDONED ROOF CAP	N/A
08		ABANDONED ROOF RAIL	N/A
09		GOOSE NECK EXHAUST ROOF VENT	YES
10		ELECTRICAL PANEL	N/A
11		DOWNBLAST EXHAUST FAN	N/A
12		DOWNBLAST EXHAUST FAN	N/A
13		DOWNBLAST EXHAUST FAN	N/A
14		DOWNBLAST EXHAUST FAN	N/A
15		DOWNBLAST EXHAUST FAN	N/A
16		DOWNBLAST EXHAUST FAN	N/A
17		UPBLAST EXHAUST FAN	NO
18		DOWNBLAST EXHAUST FAN	YES
19		DOWNBLAST EXHAUST FAN	N/A
20		DOWNBLAST EXHAUST FAN	N/A
21		DOWNBLAST EXHAUST FAN	N/A
22		DOWNBLAST EXHAUST FAN	N/A
23		UPBLAST EXHAUST FAN	YES
24		DOWNBLAST EXHAUST FAN	N/A
25		DOWNBLAST EXHAUST FAN	YES
26		DOWNBLAST EXHAUST FAN	N/A
27		UPBLAST EXHAUST FAN	YES
28		ABANDONED ROOF CAP	N/A
29		ABANDONED ROOF CAP	N/A
30		ABANDONED ROOF CAP	N/A
31		ABANDONED ROOF CAP	N/A
32		ABANDONED ROOF CAP	N/A
33		ABANDONED ROOF CAP	N/A
34		ABANDONED ROOF RAIL	N/A
35		ABANDONED ROOF CAP	N/A
36		EXISTING EXPANSION JOINT	N/A
37		ABANDONED ROOF RAIL	N/A

NOTE

REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF PLUMBING EQUIPMENT.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF MECHANICAL NEW WORK 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

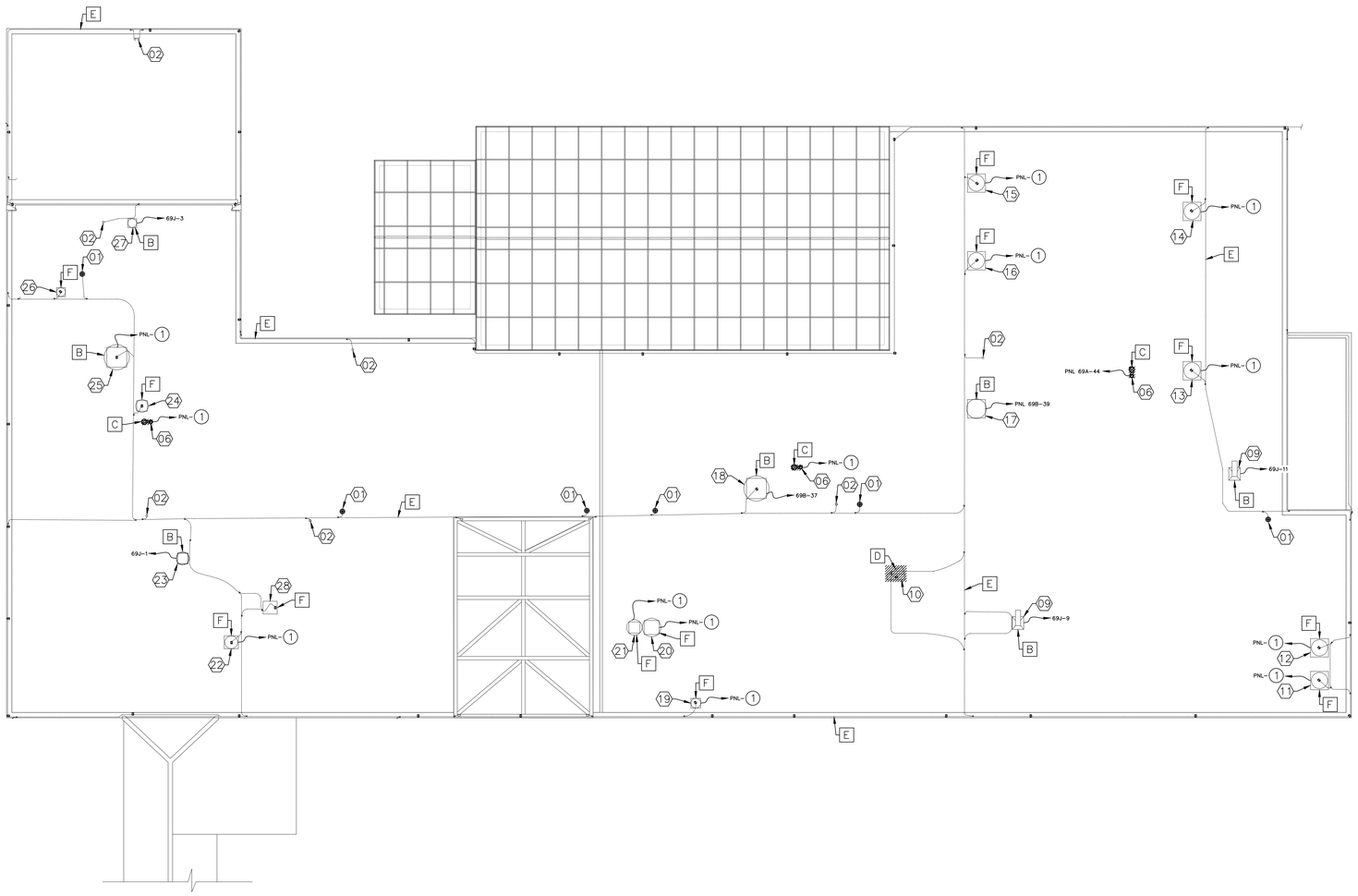
Drawing Number: M-100

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: E.G.W.

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

GENERAL NOTE

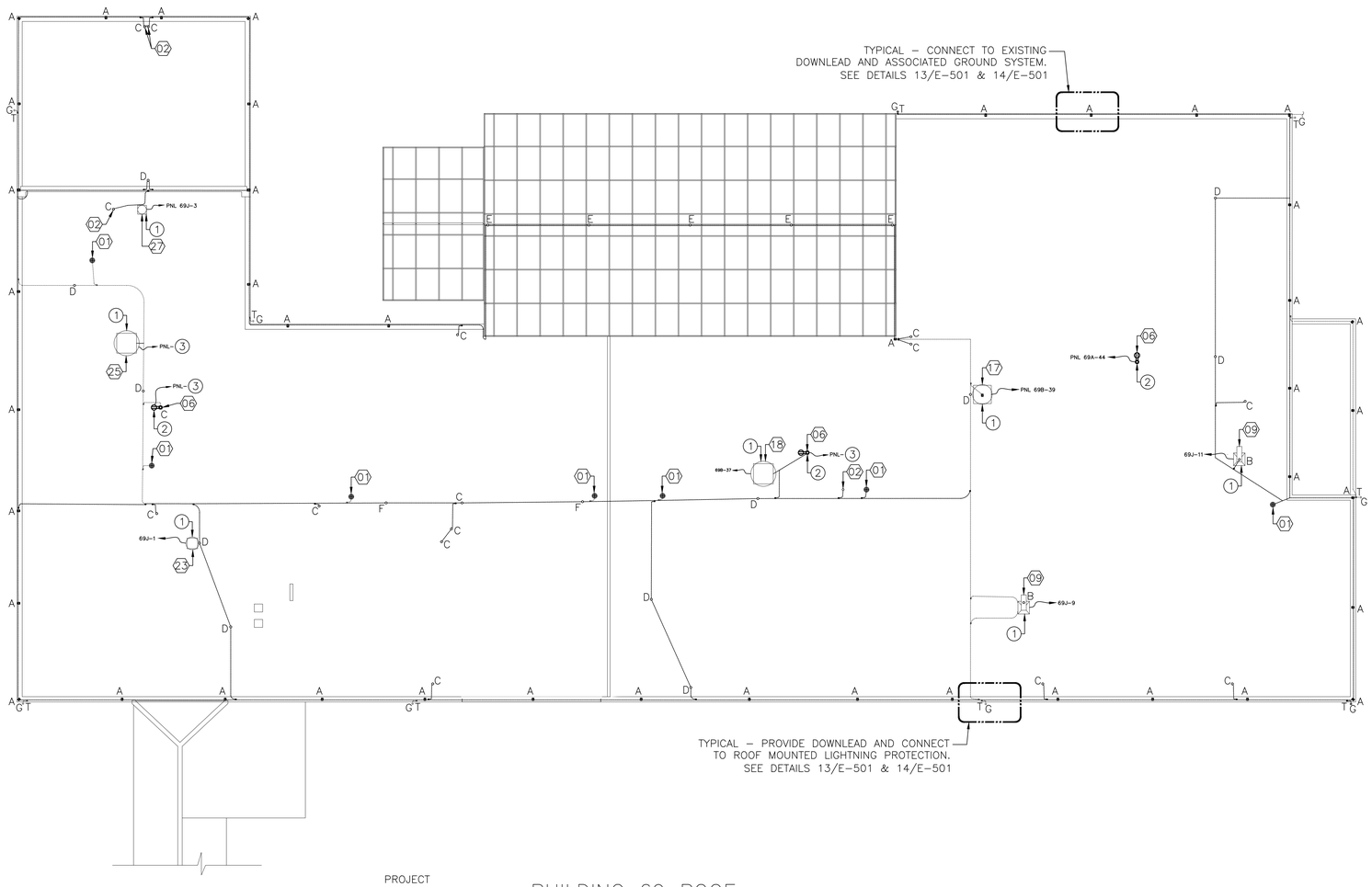
I. PROVIDE LIGHTNING PROTECTION FOR ASSOCIATED ROOF MOUNTED DEVICES. SEE ELECTRICAL DETAILS ON SHEET E-501 FOR ASSOCIATED LIGHTNING PROTECTION DETAILS. ALL INSTALLATIONS SHALL BE PER NFPA 780, UL 96, AND MANUFACTURER INSTALLATION REQUIREMENTS

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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VA U.S. Department of Veterans Affairs

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

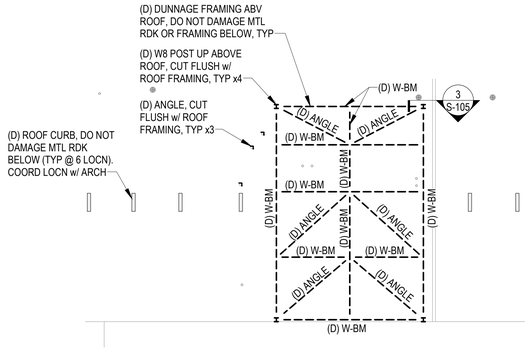
Drawn: V.A.C.

Project Number: 542-23-201

Building Number: 69

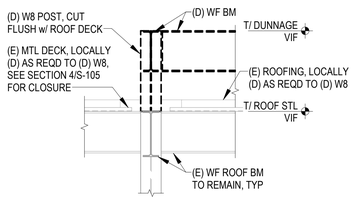
Drawing Number: E-100

VA FORM 08 - 6231



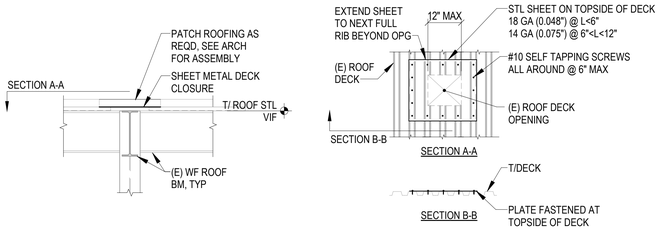
2 S-105 DEMO PLAN - ROOF

SCALE AT FULL SIZE 3/32" = 1'-0"



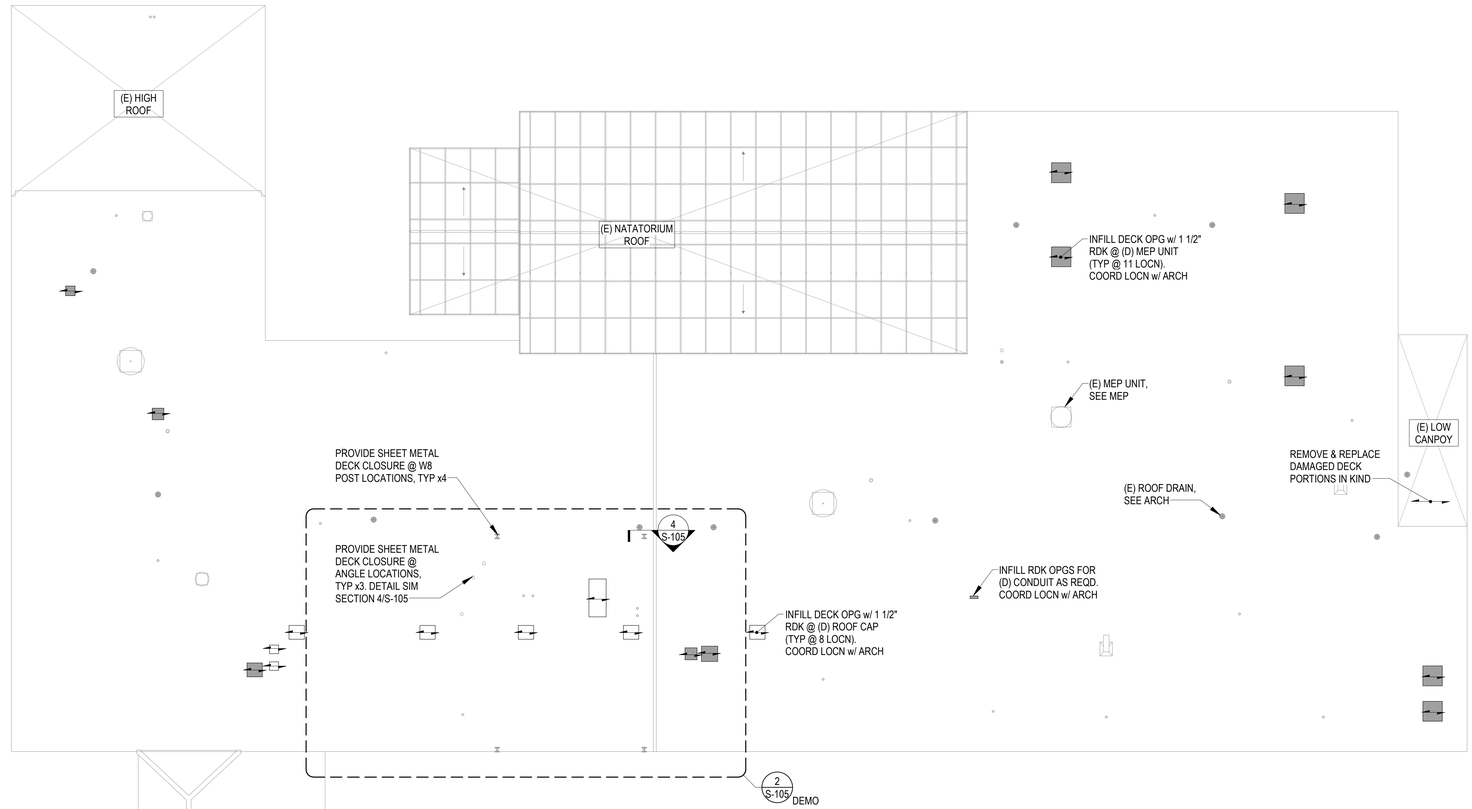
3 S-105 DEMO SECTION - DUNNAGE POST-UP

SCALE AT FULL SIZE 1/2" = 1'-0"



4 S-105 SECTION - DECK CLOSURE @ DUNNAGE POST

SCALE AT FULL SIZE 1/2" = 1'-0"



1 S-105 FRAMING PLAN - ROOF

SCALE AT FULL SIZE 3/32" = 1'-0"

DEMOLITION PLAN NOTES:

1. REFERENCE THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF DEMOLITION WORK. WORK THE STRUCTURAL DEMOLITION DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL AND EXISTING BUILDING DRAWINGS.
2. REFERENCE THE EXISTING BUILDING DRAWINGS FOR EXISTING BUILDING CONSTRUCTION NOT SHOWN ON PLAN.
3. FIELD VERIFY CONDITIONS PRIOR TO DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL SHORING AND BRACING OF EXISTING CONSTRUCTION DURING DEMOLITION UNLESS NOTED OTHERWISE.

FRAMING PLAN NOTES:

1. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIREPROOFING REQUIREMENTS.
2. REFERENCE SHEET S-300 FOR TYPICAL DETAILS OF CONSTRUCTION NOT SHOWN ON PLAN.
3. 1 1/2" RDK INDICATES 1 1/2" DEEP 18 GAUGE GALVANIZED STL ROOF DECK. MATCH PROFILE OF EXISTING DECK. OVERLAP 6" WITH EXISTING DECK AND FASTEN TO EXISTING DECK WITH #10 SELF TAPPING SCREWS AT 12" SPACING AROUND PERIMETER.

CONSTRUCTION NOTATION:

WORK INDICATED IS NEW UNLESS NOTES AS:
(E) = EXISTING CONSTRUCTION TO REMAIN
(D) = DEMOLISH EXISTING CONSTRUCTION
(R) = REPLACE EXISTING CONSTRUCTION WITH ___

LEGEND

- INFILL ROOF DECK @ (D) MEP UNIT
- INFILL ROOF DECK @ (D) ROOF OPENING CAP
- (D) ROOF CURB, DO NOT DAMAGE ROOF DECK

Revisions:	Date:

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JOHN R. DAVIS ENGINEER No. PE055730

John R. Davis, P.E.
Penna. Professional Engineer
No. PE055730

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ROOF PLANS & SECTIONS - BUILDING 69	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 & 139	542-23-201
			Building Number: 69
		Location: COATESVILLE VAMC	Drawing Number: S-105
		Issue Date: 05/01/2025 · Checked: PTF · Drawn: MDS	

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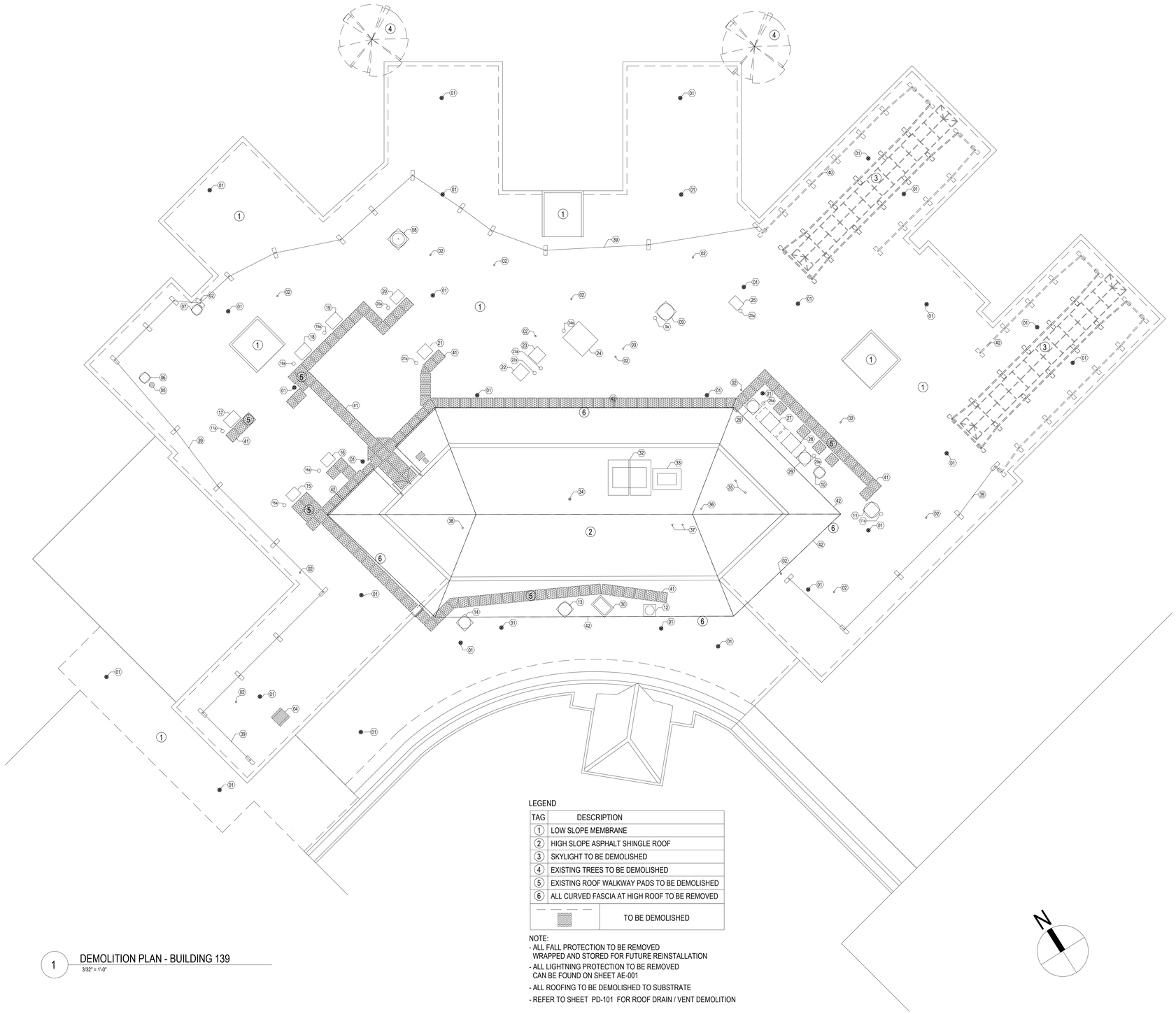

1 DEMOLITION PLAN - BUILDING 139
3/32" = 1'-0"

LEGEND

TAG	DESCRIPTION
1	LOW SLOPE MEMBRANE
2	HIGH SLOPE ASPHALT SHINGLE ROOF
3	SKYLIGHT TO BE DEMOLISHED
4	EXISTING TREES TO BE DEMOLISHED
5	EXISTING ROOF WALKWAY PADS TO BE DEMOLISHED
6	ALL CURVED FASCIA AT HIGH ROOF TO BE REMOVED
	TO BE DEMOLISHED

NOTE:
- ALL FALL PROTECTION TO BE REMOVED WRAPPED AND STORED FOR FUTURE REINSTALLATION
- ALL LIGHTNING PROTECTION TO BE REMOVED CAN BE FOUND ON SHEET AE-001
- ALL ROOFING TO BE DEMOLISHED TO SUBSTRATE
- REFER TO SHEET PD-101 FOR ROOF DRAIN / VENT DEMOLITION

EQUIPMENT SCHEDULE - BUILDING 139

TAG	SYMBOL	DESCRIPTION
01		ROOF DRAIN
02		PLUMBING VENT
03		PLUMBING VENT
04		ABANDONED ROOF RAIL
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
31		ABANDONED MOTORS
32		INTAKE/RELIEF HOOD
33		INTAKE/RELIEF HOOD
34		PLUMBING VENT
35		PLUMBING VENT X2
36		PLUMBING VENT
37		PLUMBING VENT X2
38		PLUMBING VENT
39		FALL PROTECTION CHAIN CONNECTION
40		FALL PROTECTION SOLID CONNECTION
41		EXISTING ROOF WALKWAY PADS
42	-	EXISTING METAL FASCIA

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
DEMOLITION PLAN - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number 139
		Location COATESVILLE VAMC	Drawing Number AD-102
		Issue Date 05/01/25 · Checked DT / TH · Drawn JA	

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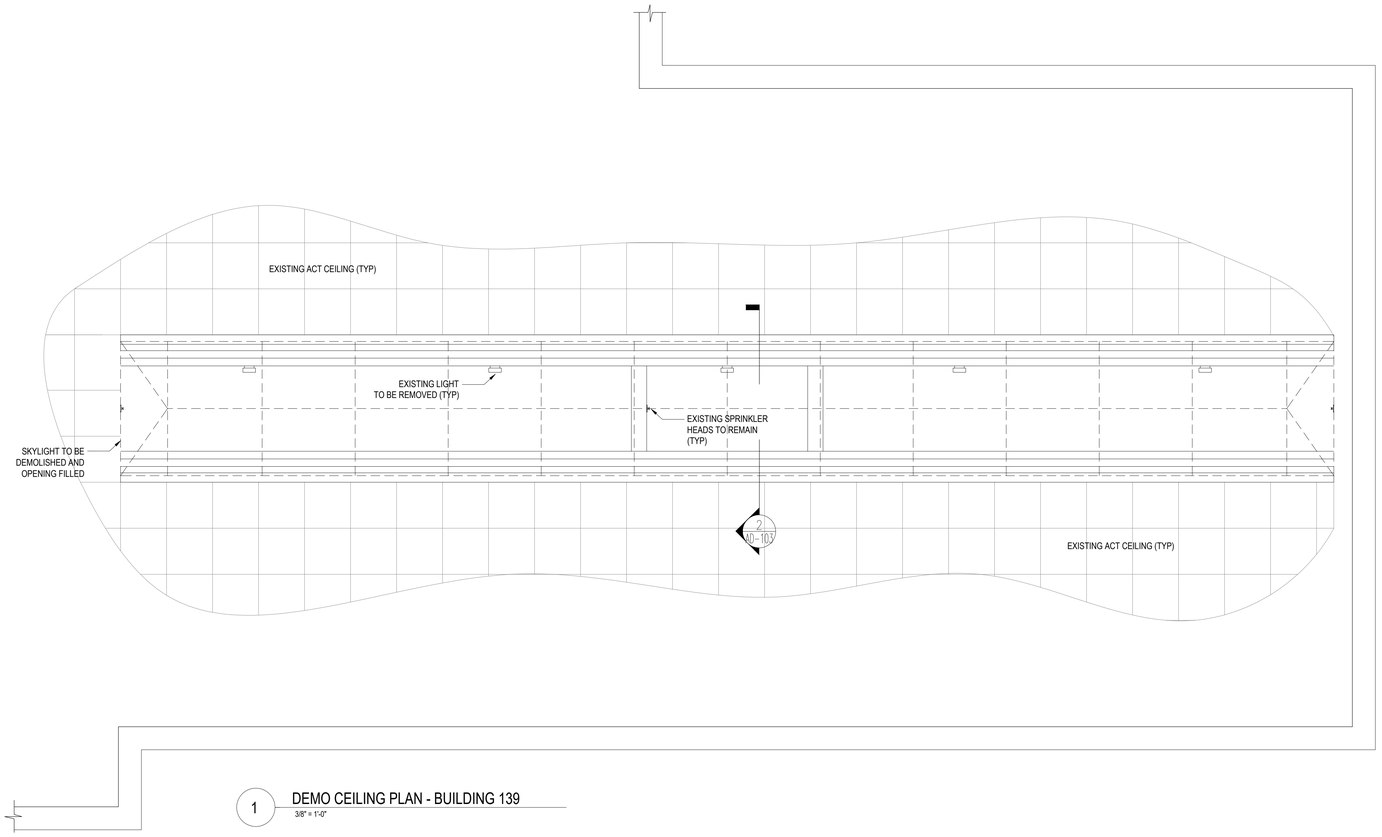
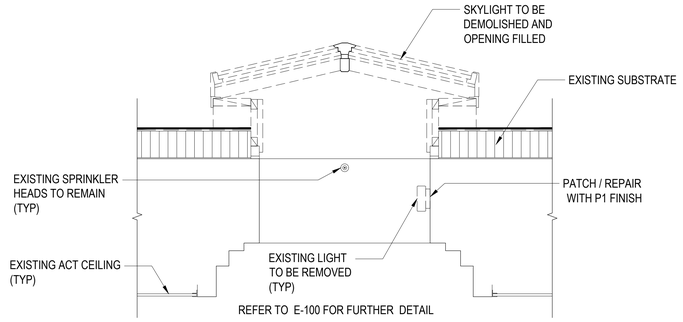
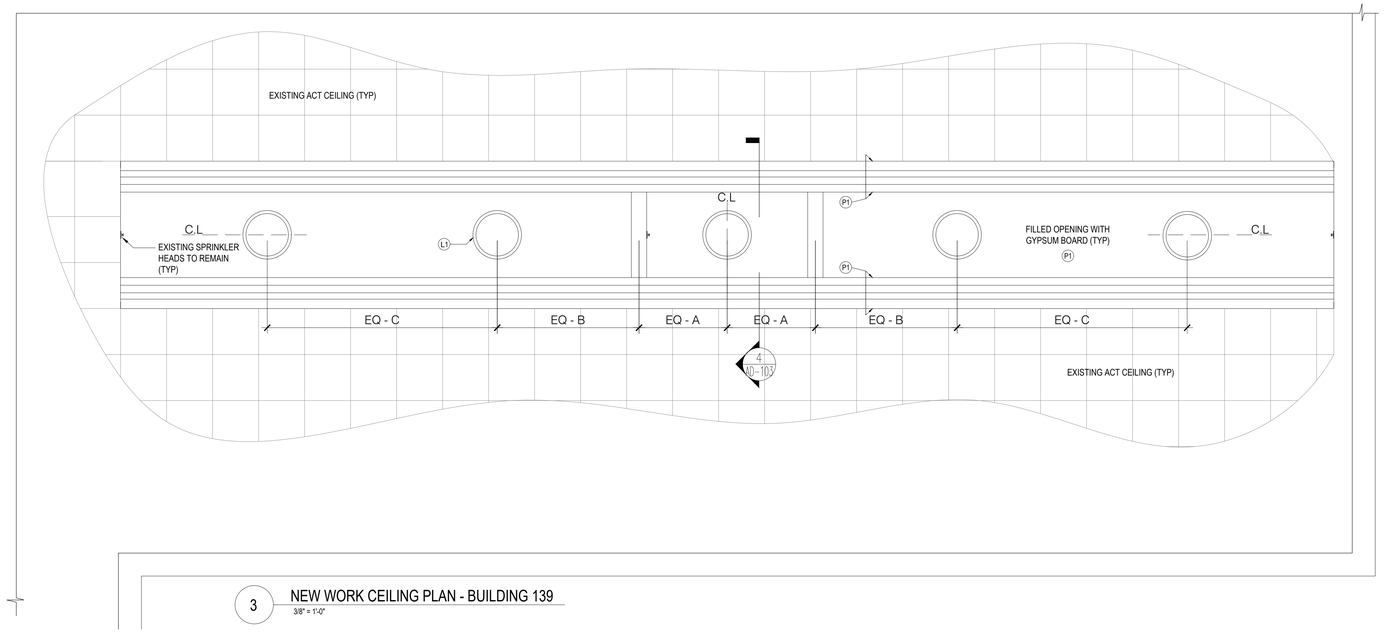


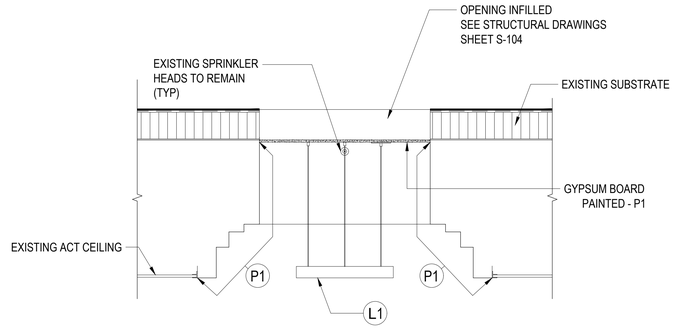
1 DEMO CEILING PLAN - BUILDING 139
3/8" = 1'-0"



2 DEMO CEILING SECTION - BUILDING 139
3/4" = 1'-0"



3 NEW WORK CEILING PLAN - BUILDING 139
3/8" = 1'-0"



4 NEW WORK CEILING SECTION - BUILDING 139
3/4" = 1'-0"

LEGEND

TAG	DESCRIPTION
	PAINT FINISH
P1	MATCH EXISTING PAINT FINISH
	NEW PROPOSED LIGHT
L1	CABLE MOUNTED LED RING LIGHT FIXTURE 24"-30" DIAMETER, 1.5"-3"HEIGHT

Revisions:	Date:

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REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
THOMAS HOGAN BARNETT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
REFLECTED CEILING PLAN DEMOLITION /NEW WORK - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 139
		Location: COATESVILLE VAMC	Drawing Number: AD-103
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	

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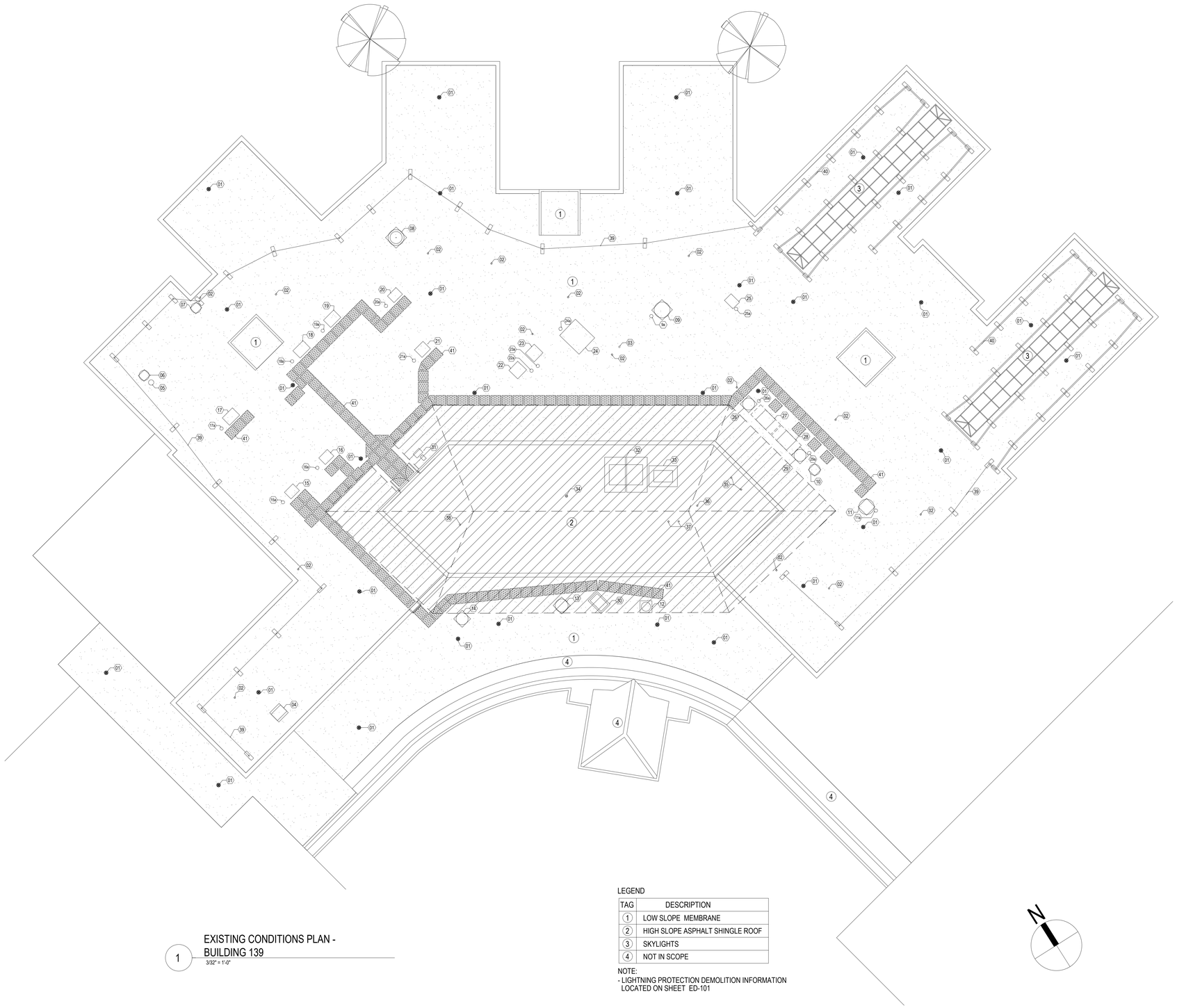

1 EXISTING CONDITIONS PLAN - BUILDING 139
3/32" = 1'-0"

LEGEND

TAG	DESCRIPTION
1	LOW SLOPE MEMBRANE
2	HIGH SLOPE ASPHALT SHINGLE ROOF
3	SKYLIGHTS
4	NOT IN SCOPE

NOTE:
- LIGHTNING PROTECTION DEMOLITION INFORMATION LOCATED ON SHEET ED-101

EQUIPMENT SCHEDULE - BUILDING 139

TAG	SYMBOL	DESCRIPTION
01		ROOF DRAIN
02		PLUMBING VENT
03		PLUMBING VENT
04		ABANDONED ROOF RAIL
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
31		ABANDONED MOTORS
32		INTAKE/RELIEF HOOD
33		INTAKE/RELIEF HOOD
34		PLUMBING VENT
35		PLUMBING VENT X2
36		PLUMBING VENT
37		PLUMBING VENT X2
38		PLUMBING VENT
39		FALL PROTECTION CHAIN CONNECTION
40		FALL PROTECTION SOLID CONNECTION
41		EXISTING ROOF WALKWAY PADS

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING CONDITIONS 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: A-106

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: JA

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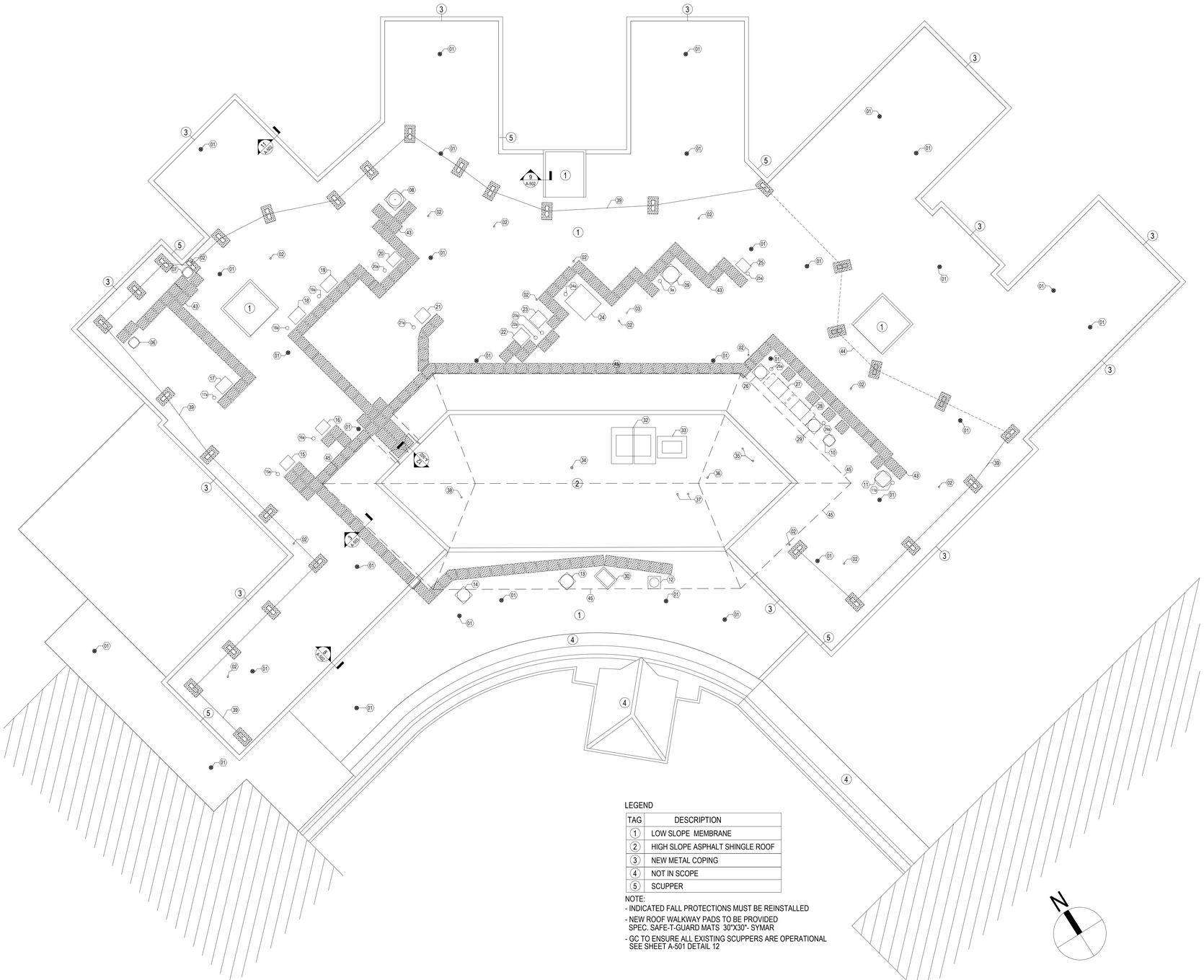


1 NEW WORK PLAN - BUILDING 139
3/32" = 1'-0"

LEGEND

TAG	DESCRIPTION
1	LOW SLOPE MEMBRANE
2	HIGH SLOPE ASPHALT SHINGLE ROOF
3	NEW METAL COPING
4	NOT IN SCOPE
5	SCUPPER

NOTE:
- INDICATED FALL PROTECTIONS MUST BE REINSTALLED
- NEW ROOF WALKWAY PADS TO BE PROVIDED SPEC. SAFE-T-GUARD MATS 30"X30"- SYMAR
- GC TO ENSURE ALL EXISTING SCUPPERS ARE OPERATIONAL SEE SHEET A-501 DETAIL 12

EQUIPMENT SCHEDULE - BUILDING 139

TAG	SYMBOL	DESCRIPTION	
01		ROOF DRAIN	SEE DETAIL 1 SHEET A-502
02		PLUMBING VENT	SEE DETAIL 6 SHEET A-502
03		PLUMBING VENT	SEE DETAIL 6 SHEET A-502
-	-	NOT USED	-
-	-	NOT USED	-
06		UPBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
07		DOWNBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
08		DOWNBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
09		UPBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
10		DOWNBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
11		UPBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
12		DOWNBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
13		UPBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
14		UPBLAST EXHAUST FAN	SEE DETAIL 2 SHEET A-502
15		REFRIGERATION CONDENSING UNIT SERVES COOLER #1 WALK IN 135	SEE DETAIL 4 SHEET A-502
16		REFRIGERATION CONDENSING UNIT SERVES COOLER #2 WALK IN 133	SEE DETAIL 4 SHEET A-502
17		REFRIGERATION CONDENSING UNIT SERVES FREEZER #1 WALK IN 136	SEE DETAIL 4 SHEET A-502
18		REFRIGERATION CONDENSING UNIT SERVES FREEZER #2 WALK IN 134	SEE DETAIL 4 SHEET A-502
19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134	SEE DETAIL 4 SHEET A-502
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127	SEE DETAIL 4 SHEET A-502
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131	SEE DETAIL 4 SHEET A-502
22		REFRIGERATION CONDENSING UNIT	SEE DETAIL 4 SHEET A-502
23		REFRIGERATION CONDENSING UNIT	SEE DETAIL 4 SHEET A-502
24		MAKE-UP AIR UNIT	SEE DETAIL 3 SHEET A-502
25		REFRIGERATION CONDENSING UNIT	SEE DETAIL 4 SHEET A-502
26		UPBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
27		INTAKE/RELIEF HOOD	SEE DETAIL 3 SHEET A-502
28		INTAKE/RELIEF HOOD	SEE DETAIL 3 SHEET A-502
29		UPBLAST EXHAUST FAN	SEE DETAIL 4 SHEET A-502
30		INTAKE/RELIEF HOOD	SEE DETAIL 3 SHEET A-502
31		ABANDONED MOTORS	-
32		INTAKE/RELIEF HOOD	-
33		INTAKE/RELIEF HOOD	-
34		PLUMBING VENT	SEE DETAIL 7 SHEET A-501
35		PLUMBING VENT X2	SEE DETAIL 7 SHEET A-501
36		PLUMBING VENT	SEE DETAIL 7 SHEET A-501
37		PLUMBING VENT X2	SEE DETAIL 7 SHEET A-501
38		PLUMBING VENT	SEE DETAIL 7 SHEET A-501
39		FALL PROTECTION CHAIN CONNECTION	-
40		FALL PROTECTION SOLID CONNECTION	-
43		NEW ROOF WALKWAY PADS TO BE PROVIDED	-
44		NEW FALL PROTECTION	-
45	-	METAL FASCIA	SEE DETAIL 3 SHEET A-503
9a		ROOF PENETRATION	SEE DETAIL 1 SHEET A-503
9a, 11a, 13a, 15a, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24a, 25a, 26a, 28a, 29a			

NOTE:
REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMO

Revisions:	Date:

CONSULTANT
KEAST & HOOD STRUCTURAL ENGINEERS
NEI Northeast Infrastructure, LLC

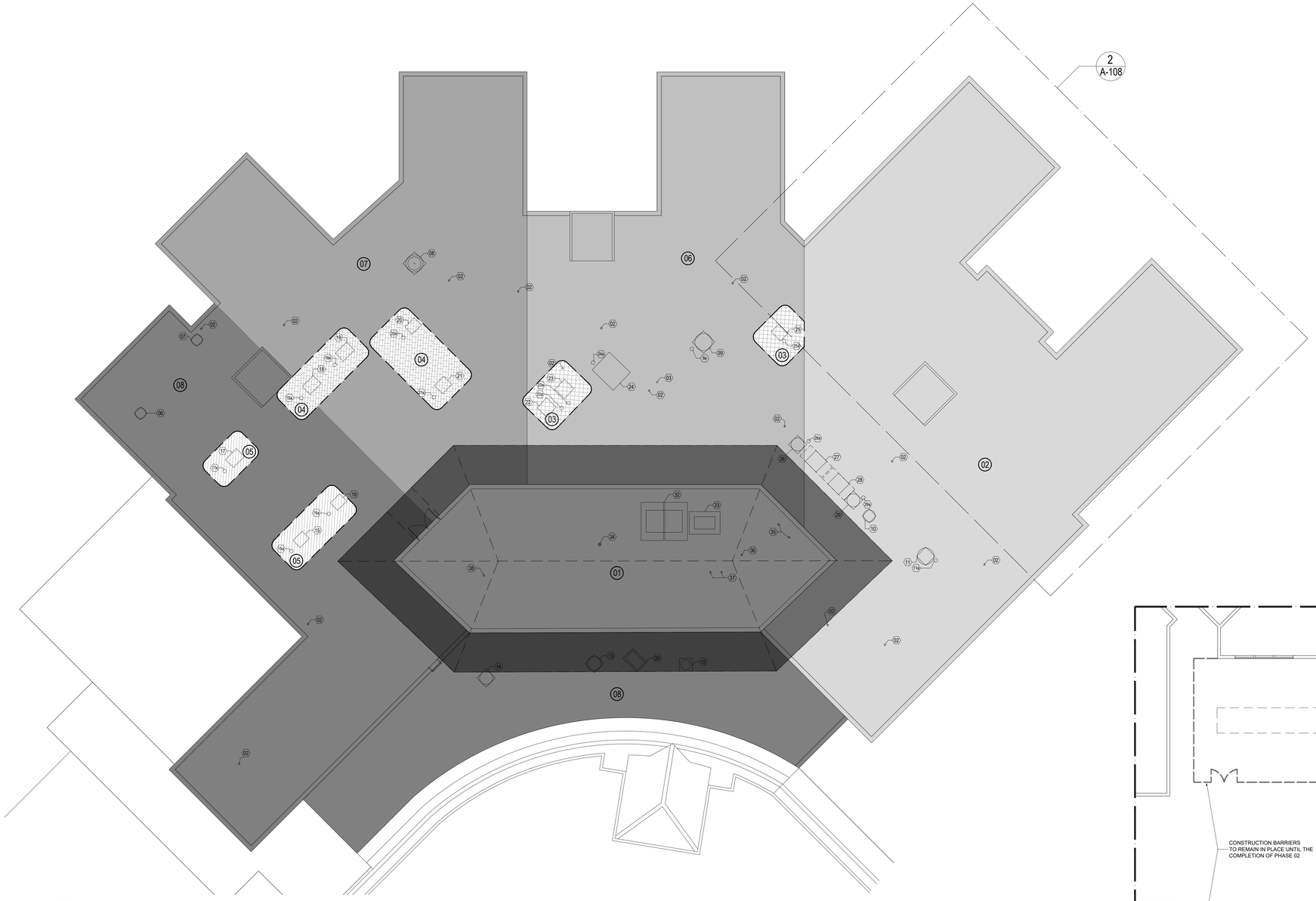
ARCHITECT/ENGINEER OF RECORD
THE PETTIT GROUP, LLC
Engineering • Architecture • Planning

STAMP
REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

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

Drawing Title: 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: A-107
Issue Date: 05/01/25
Checked: DT / TH
Drawn: JA

VA FORM 08 - 6231



1 PHASING PLAN - BUILDING 139

3/32" = 1'-0"

LEGEND:

PHASE 01 - Remove and replace asphalt shingled roof and fascia as detailed

PHASE 02 - Remove and in fill skylights, remove and fully replace existing membrane roof including flashing and coping as detailed.

PHASE 03 - Remove and fully replace existing membrane roof and curbs for units 15, 16 and 17. Install associated penetration housing.

- (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

PHASE 04

Remove and fully replace existing membrane roof and curbs for units 18, 19, 20 and 21. Install associated penetration housing.

- (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

PHASE 05

Remove and fully replace existing membrane roof and curbs for units 22, 23, and 25. Install associated penetration housing.

- (22) REFRIGERATION CONDENSING UNIT
- (23) REFRIGERATION CONDENSING UNIT
- (25) REFRIGERATION CONDENSING UNIT

PHASE 06

Remove and fully replace existing membrane roof including lightning protection, flashing and coping as detailed.

PHASE 07

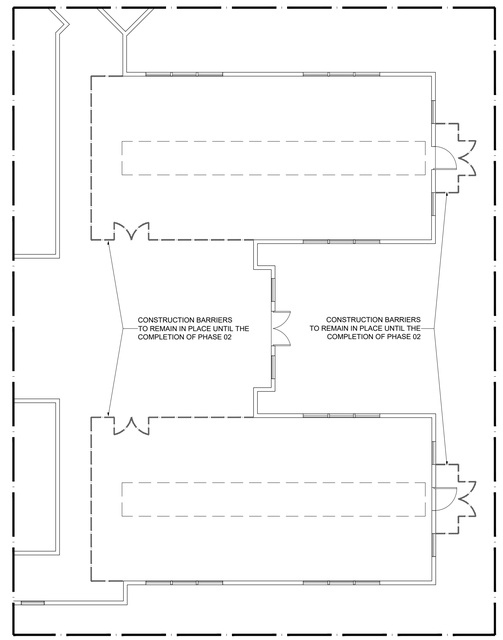
Remove and fully replace existing membrane roof including lightning protection, flashing and coping as detailed.

PHASE 08

Remove and fully replace existing membrane roof including lightning protection, flashing and coping as detailed.

EQUIPMENT SCHEDULE - BUILDING 139

TAG	SYMBOL	DESCRIPTION
(01)		ROOF DRAIN
(02)		PLUMBING VENT
(03)		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
(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
(31)		ABANDONED MOTORS
(32)		INTAKE/RELIEF HOOD
(33)		INTAKE/RELIEF HOOD
(34)		PLUMBING VENT
(35)		PLUMBING VENT X2
(36)		PLUMBING VENT
(37)		PLUMBING VENT X2
(38)		PLUMBING VENT
(39)		FALL PROTECTION CHAIN CONNECTION
(40)		FALL PROTECTION SOLID CONNECTION



2 GROUND FLOOR PHASING PLAN - BUILDING 139

3/32" = 1'-0"

LEGEND:

1 HR RATED TEMPORARY FIRE WALLS

1 HR RATED METAL DOORS

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

NEI Northeast Infrastructure, LLC

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THE PETTIT GROUP, LLC
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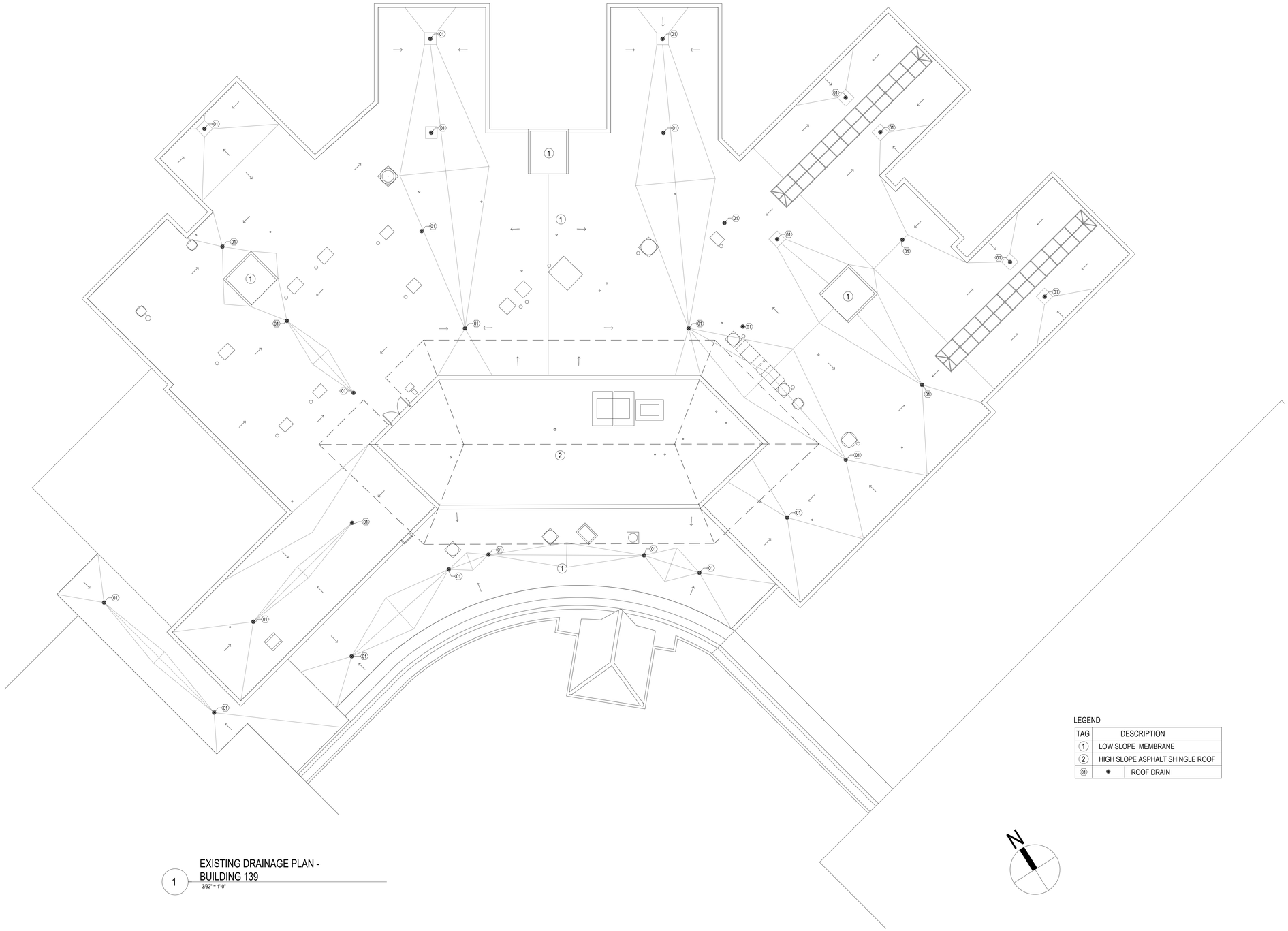
REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
PHASING PLAN - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 139
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-108

VA FORM 08 - 6231



LEGEND

TAG	DESCRIPTION
1	LOW SLOPE MEMBRANE
2	HIGH SLOPE ASPHALT SHINGLE ROOF
01	ROOF DRAIN

1 EXISTING DRAINAGE PLAN - BUILDING 139
3/32" = 1'-0"

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

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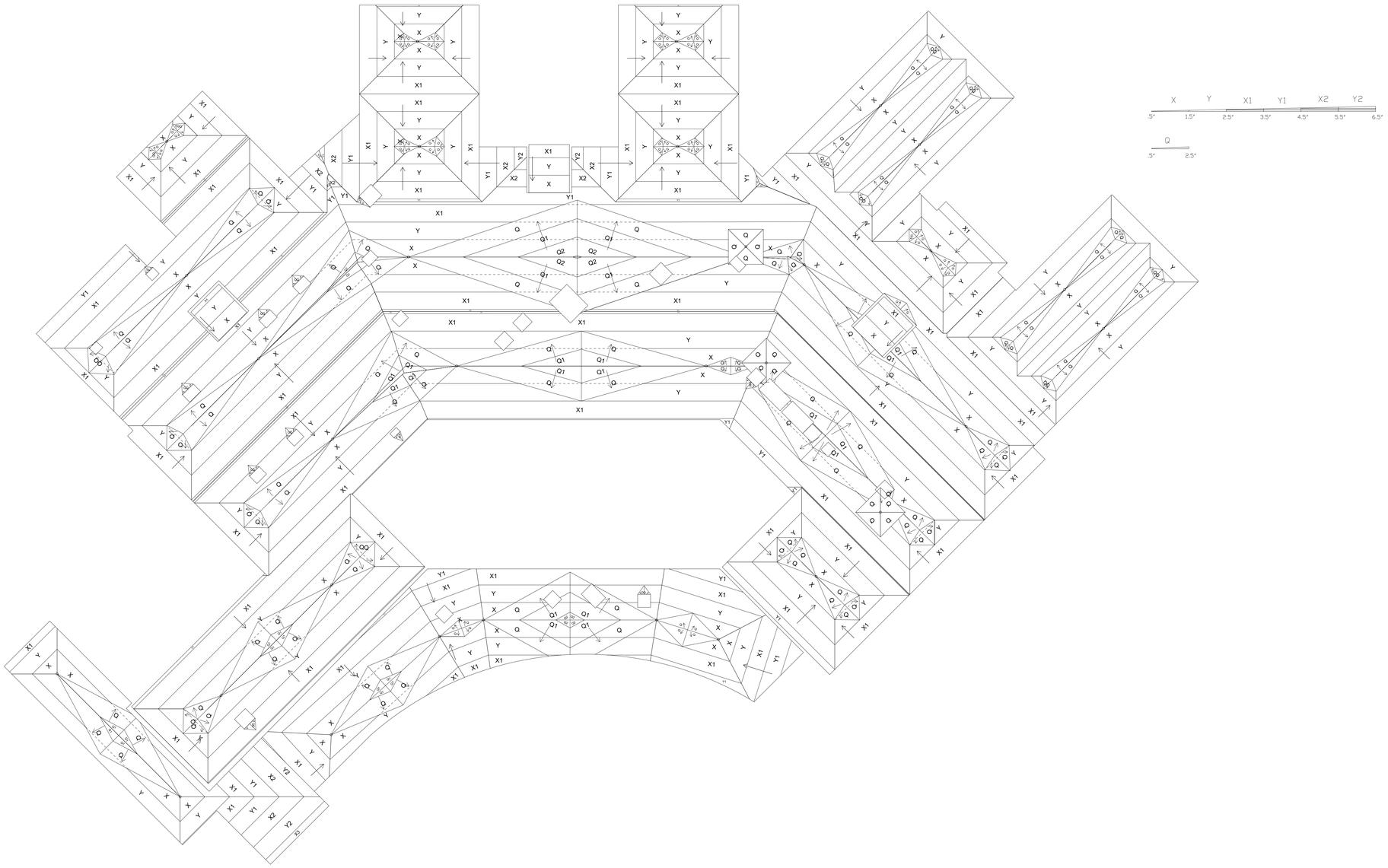
REGISTERED ARCHITECT
JOSEPH A. HOGAN JR.
COMMONWEALTH OF PENNSYLVANIA
No. RA-024192-E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
EXISTING DRAINAGE PLAN - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 139
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-109

VA FORM 08 - 6231



1 NEW WORK DRAINAGE PLAN - BUILDING 139
3/32" = 1'-0"

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
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REGISTERED ARCHITECT
JOHN A. HOGAN
STATE OF MARYLAND
No. 18-0-0-0

Office of Construction and Facilities Management

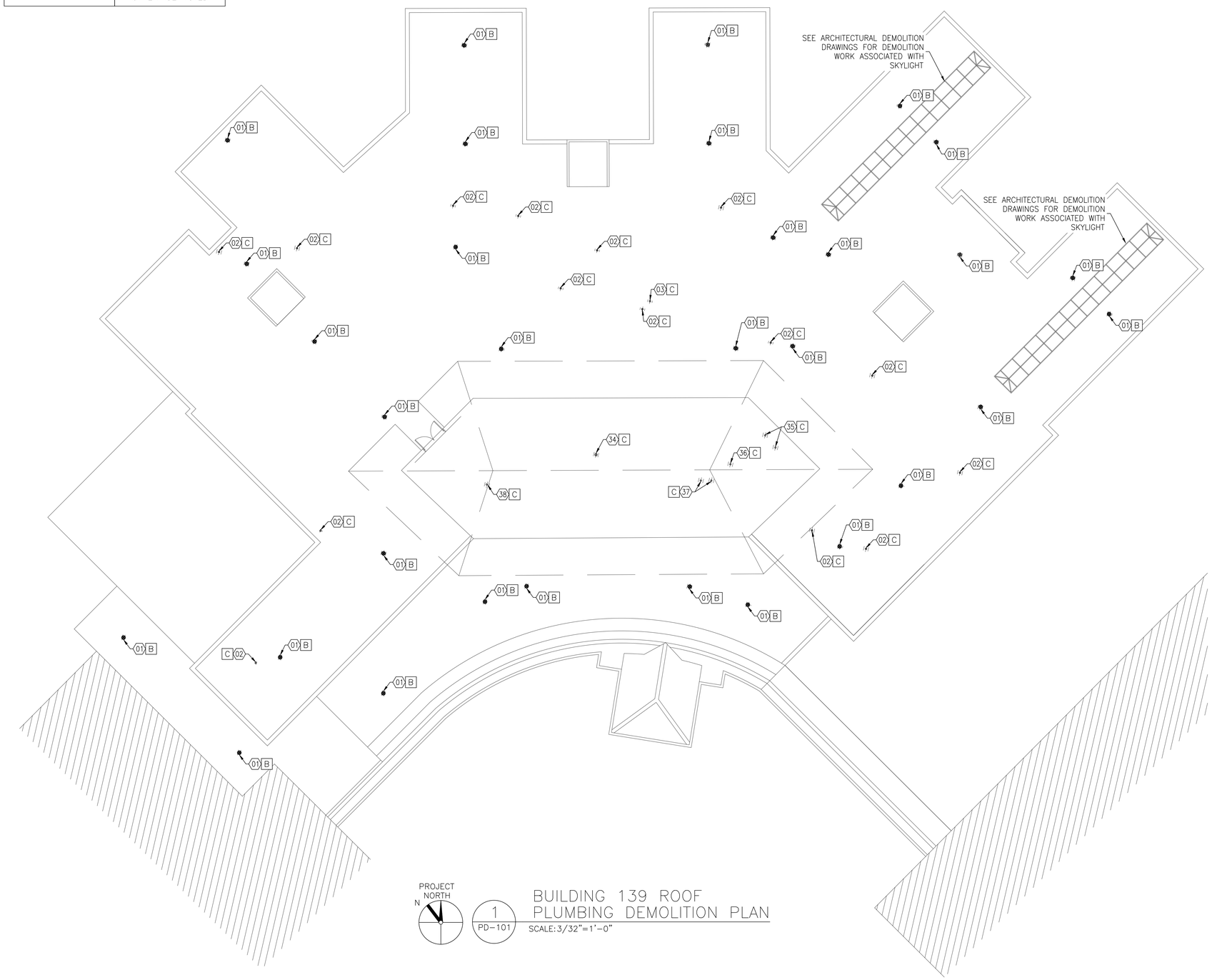
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
NEW WORK DRAINAGE PLAN - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 139
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-110

VA FORM 08 - 6231

HATCH STYLES

	EQUIPMENT TO BE REMOVED AND PRESERVED FOR REINSTALLATION UNLESS OTHERWISE NOTED



1 PD-101 BUILDING 139 ROOF PLUMBING DEMOLITION PLAN
SCALE: 3/32"=1'-0"

GENERAL NOTE

1. CONTRACTOR SHALL REMOVE EXISTING ROOF EQUIPMENT AND ASSOCIATED APPURTENANCES AS INDICATED ON DRAWINGS. IN CASE EXISTING ROOF EQUIPMENT NOTED TO BE PRESERVED IS DAMAGED CONTRACTOR SHALL PROVIDE AND INSTALL NEW EQUIPMENT TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE STATION.

KEYED DEMOLITION NOTES

B CONTRACTOR SHALL REPLACE DRAIN EQUIPMENT AT NOTED LOCATIONS. DRAIN PENETRATIONS SHALL BE MAINTAINED.

C CONTRACTOR SHALL REPLACE BOOT AND ASSOCIATED FLASHING AT NOTED LOCATION. PENETRATION AND VENT PIPING SHALL REMAIN.

EQUIPMENT SCHEDULE – BUILDING 139

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		PLUMBING VENT	YES
04		ABANDONED ROOF RAIL	N/A
05		ABANDONED ROOF CAP	N/A
06		UPBLAST EXHAUST FAN	YES
07		DOWNBLAST EXHAUST FAN	YES
08		DOWNBLAST EXHAUST FAN	NO
09		UPBLAST EXHAUST FAN	NO
10		DOWNBLAST EXHAUST FAN	YES
11		UPBLAST EXHAUST FAN	NO
12		DOWNBLAST EXHAUST FAN	NO
13		UPBLAST EXHAUST FAN	NO
14		UPBLAST EXHAUST FAN	NO
15		REFRIGERATION CONDENSING UNIT SERVES COOLER #1 WALK IN 135	YES
16		REFRIGERATION CONDENSING UNIT SERVES COOLER #2 WALK IN 133	YES
17		REFRIGERATION CONDENSING UNIT SERVES FREEZER #1 WALK IN 136	YES
18		REFRIGERATION CONDENSING UNIT SERVES FREEZER #2 WALK IN 134	YES
19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134	YES
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127	YES
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131	YES
22		REFRIGERATION CONDENSING UNIT	YES
23		REFRIGERATION CONDENSING UNIT	YES
24		MAKE-UP AIR UNIT	NO
25		REFRIGERATION CONDENSING UNIT	YES
26		UPBLAST EXHAUST FAN	YES
27		INTAKE/RELIEF HOOD	NO
28		INTAKE/RELIEF HOOD	NO
29		UPBLAST EXHAUST FAN	YES
30		INTAKE/RELIEF HOOD	YES
31		ABANDONED MOTORS	N/A
32		INTAKE/RELIEF HOOD	N/A
33		INTAKE/RELIEF HOOD	N/A
34		PLUMBING VENT	YES
35		PLUMBING VENT X2	YES
36		PLUMBING VENT	YES
37		PLUMBING VENT X2	YES
38		PLUMBING VENT	YES
#A		ROOF PENETRATION – EXACT TAG NUMBERS IDENTIFIED BELOW	YES
9A 11A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 29A			N/A

NOTE

REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF HVAC EQUIPMENT.

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
Engineering • Architecture • Planning

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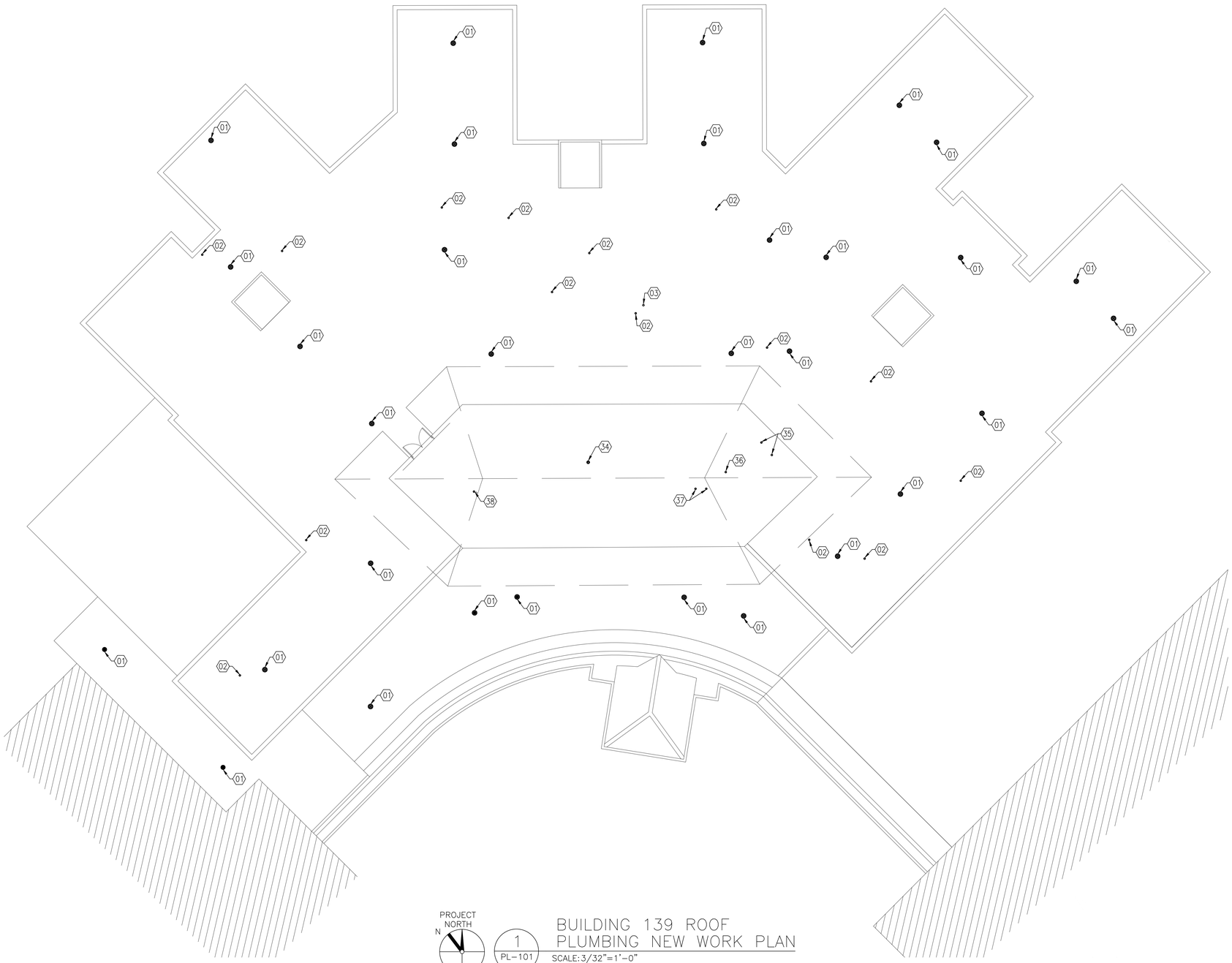
REGISTERED PROFESSIONAL ENGINEER No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ROOF PLUMBING DEMOLITION PLAN - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 139
		Location: COATESVILLE VAMC	Drawing Number: PD-101
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: E.G.W.	

VA FORM 08 - 6231



1
PL-101

BUILDING 139 ROOF PLUMBING NEW WORK PLAN

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

GENERAL NOTES

I. CONTRACTOR SHALL REINSTALL EQUIPMENT REMOVED. CONTRACTOR SHALL REPLACE ANY DAMAGED EQUIPMENT TO MATCH EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE STATION.

II. CONTRACTOR SHALL ENSURE PIPING CURBS ARE A MINIMUM OF 12" ABOVE ROOF EPDM. CONTRACTOR SHALL EXTEND CURBS OF PIPING WHICH ARE NOT A MINIMUM OF 12" ABOVE ROOF EPDM.

III. CONTRACTOR SHALL PROVIDE ROOF DRAIN ASSEMBLY BASIS OF DESIGN "ZURN RD2150" OR APPROVED EQUAL. ROOF DRAIN ASSEMBLY SHALL BE CAST IRON.

IV. CONTRACTOR SHALL REPLACE BOOT AND FLASHING FOR PIPING THAT HAS BEEN PRESERVED.

EQUIPMENT SCHEDULE – BUILDING 139

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		PLUMBING VENT	YES
04		ABANDONED ROOF RAIL	N/A
05		ABANDONED ROOF CAP	N/A
06		UPBLAST EXHAUST FAN	YES
07		DOWNBLAST EXHAUST FAN	YES
08		DOWNBLAST EXHAUST FAN	NO
09		UPBLAST EXHAUST FAN	NO
10		DOWNBLAST EXHAUST FAN	YES
11		UPBLAST EXHAUST FAN	NO
12		DOWNBLAST EXHAUST FAN	NO
13		UPBLAST EXHAUST FAN	NO
14		UPBLAST EXHAUST FAN	NO
15		REFRIGERATION CONDENSING UNIT SERVES COOLER #1 WALK IN 135	YES
16		REFRIGERATION CONDENSING UNIT SERVES COOLER #2 WALK IN 133	YES
17		REFRIGERATION CONDENSING UNIT SERVES FREEZER #1 WALK IN 136	YES
18		REFRIGERATION CONDENSING UNIT SERVES FREEZER #2 WALK IN 134	YES
19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134	YES
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127	YES
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131	YES
22		REFRIGERATION CONDENSING UNIT	YES
23		REFRIGERATION CONDENSING UNIT	YES
24		MAKE-UP AIR UNIT	NO
25		REFRIGERATION CONDENSING UNIT	YES
26		UPBLAST EXHAUST FAN	YES
27		INTAKE/RELIEF HOOD	NO
28		INTAKE/RELIEF HOOD	NO
29		UPBLAST EXHAUST FAN	YES
30		INTAKE/RELIEF HOOD	YES
31		ABANDONED MOTORS	N/A
32		INTAKE/RELIEF HOOD	N/A
33		INTAKE/RELIEF HOOD	N/A
34		PLUMBING VENT	YES
35		PLUMBING VENT X2	YES
36		PLUMBING VENT	YES
37		PLUMBING VENT X2	YES
38		PLUMBING VENT	YES
#A		ROOF PENETRATION – EXACT TAG NUMBERS IDENTIFIED BELOW	YES
9A 11A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 29A			N/A

NOTE

REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF HVAC EQUIPMENT.

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
Engineering • Architecture • Planning

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF PLUMBING 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

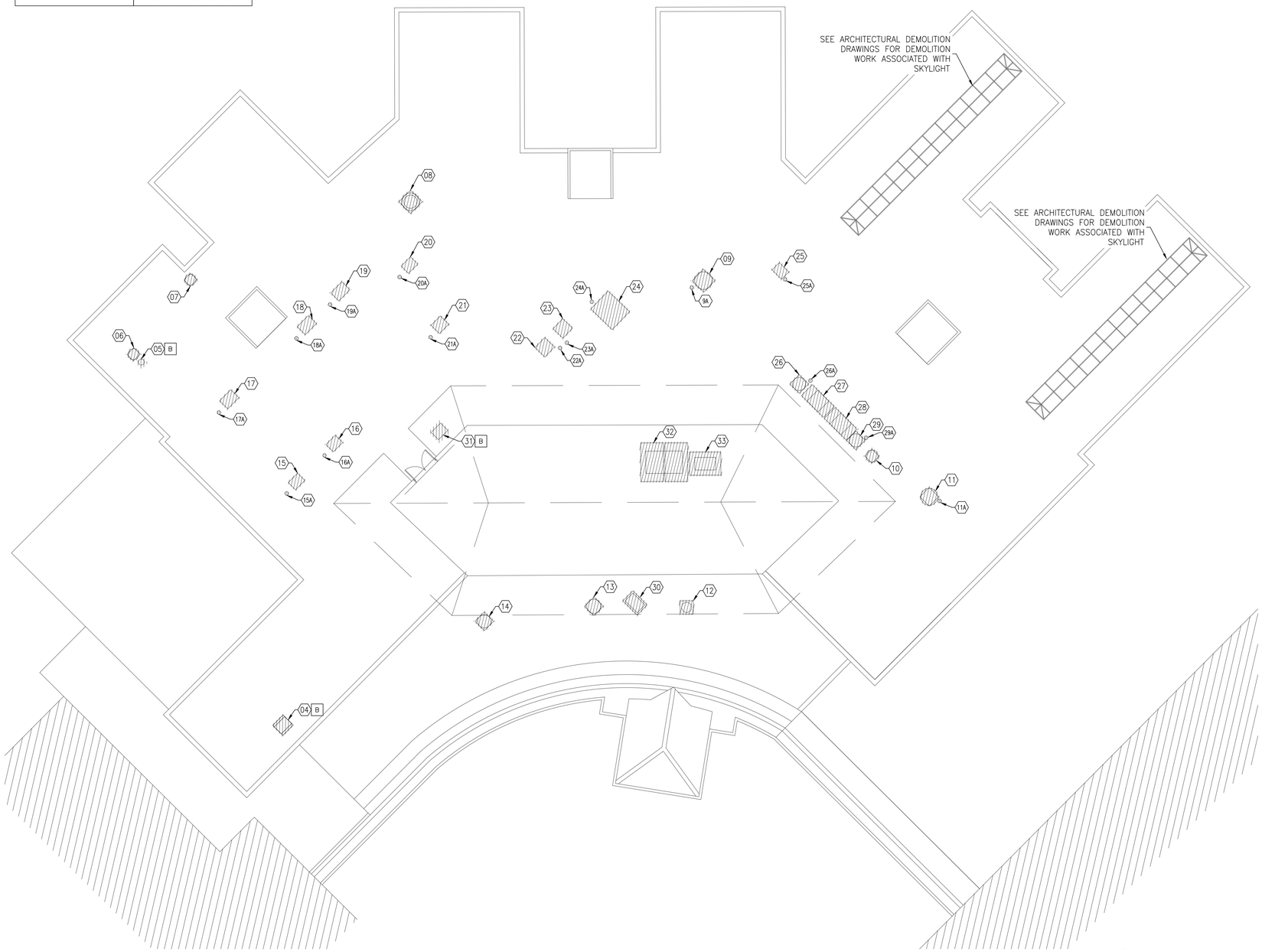
Drawing Number: PL-101

Issue Date: 05/01/25 | Checked: DT / TH | Drawn: E.G.W.

VA FORM 08 - 6231

HATCH STYLES

	EQUIPMENT TO BE REMOVED AND PRESERVED FOR REINSTALLATION UNLESS OTHERWISE NOTED



1 / MD-101

BUILDING 139 ROOF MECHANICAL DEMOLITION PLAN

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

KEYED DEMOLITION NOTE

B EQUIPMENT TO BE DEMOLISHED AND NOT PRESERVED FOR REINSTALLATION.

GENERAL NOTES

I. CONTRACTOR SHALL REMOVE EXISTING ROOF EQUIPMENT AND ASSOCIATED APPURTENANCES AS INDICATED ON DRAWINGS. IN CASE EXISTING ROOF EQUIPMENT NOTED TO BE PRESERVED IS DAMAGED CONTRACTOR SHALL PROVIDE AND INSTALL NEW EQUIPMENT TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE STATION.

II. EQUIPMENT DESIGNATED TO BE REMOVED AND PRESERVED FOR REINSTALLATION FOR THE PURPOSE OF ROOF REPLACEMENT MUST BE COORDINATED WITH THE COR PRIOR TO REMOVAL. EQUIPMENT MUST BE REMOVED DURING OFF HOURS AND REINSTALLED PRIOR TO THE START OF BUSINESS HOURS TO PREVENT INTERRUPTION OF NORMAL BUILDING OPERATIONS.

EQUIPMENT SCHEDULE – BUILDING 139

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		PLUMBING VENT	YES
04		ABANDONED ROOF RAIL	N/A
05		ABANDONED ROOF CAP	N/A
06		UPBLAST EXHAUST FAN	YES
07		DOWNBLAST EXHAUST FAN	YES
08		DOWNBLAST EXHAUST FAN	NO
09		UPBLAST EXHAUST FAN	NO
10		DOWNBLAST EXHAUST FAN	YES
11		UPBLAST EXHAUST FAN	NO
12		DOWNBLAST EXHAUST FAN	NO
13		UPBLAST EXHAUST FAN	NO
14		UPBLAST EXHAUST FAN	NO
15		REFRIGERATION CONDENSING UNIT SERVES COOLER #1 WALK IN 135	YES
16		REFRIGERATION CONDENSING UNIT SERVES COOLER #2 WALK IN 133	YES
17		REFRIGERATION CONDENSING UNIT SERVES FREEZER #1 WALK IN 136	YES
18		REFRIGERATION CONDENSING UNIT SERVES FREEZER #2 WALK IN 134	YES
19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134	YES
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127	YES
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131	YES
22		REFRIGERATION CONDENSING UNIT	YES
23		REFRIGERATION CONDENSING UNIT	YES
24		MAKE–UP AIR UNIT	NO
25		REFRIGERATION CONDENSING UNIT	YES
26		UPBLAST EXHAUST FAN	YES
27		INTAKE/RELIEF HOOD	NO
28		INTAKE/RELIEF HOOD	NO
29		UPBLAST EXHAUST FAN	YES
30		INTAKE/RELIEF HOOD	YES
31		ABANDONED MOTORS	N/A
32		INTAKE/RELIEF HOOD	N/A
33		INTAKE/RELIEF HOOD	N/A
34		PLUMBING VENT	YES
35		PLUMBING VENT X2	YES
36		PLUMBING VENT	YES
37		PLUMBING VENT X2	YES
38		PLUMBING VENT	YES
#A		ROOF PENETRATION – EXACT TAG NUMBERS IDENTIFIED BELOW	YES
9A 11A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 29A			N/A

NOTE

REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF HVAC EQUIPMENT.

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
Engineering • Architecture • Planning

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REGISTERED PROFESSIONAL Engineer No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ROOF MECHANICAL DEMOLITION PLAN - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 139
		Location: COATESVILLE VAMC	Drawing Number: MD-101
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: E.G.W.	

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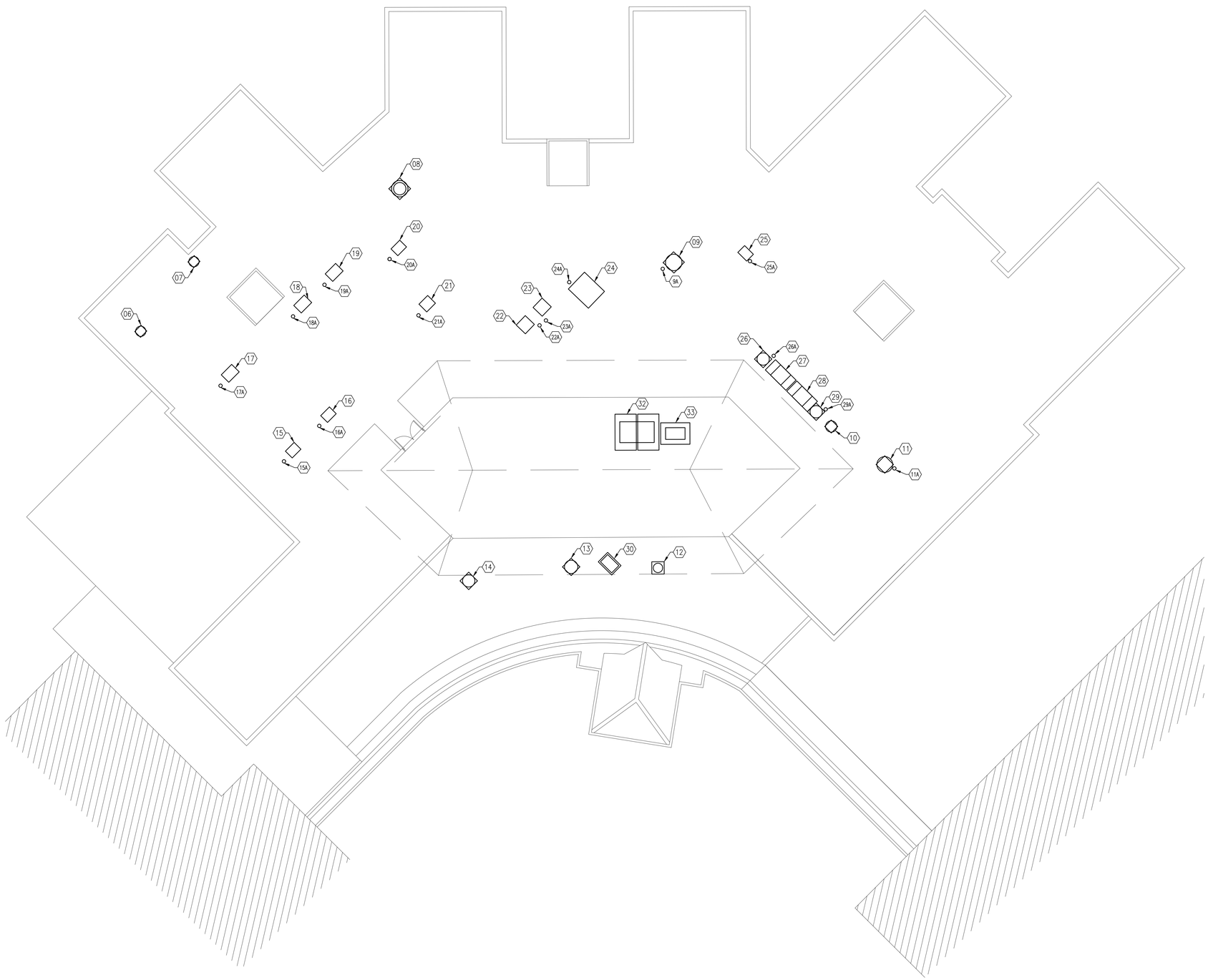

PROJECT NORTH
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1
M-101

BUILDING 139 ROOF MECHANICAL NEW WORK PLAN

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

GENERAL NOTES

I. CONTRACTOR SHALL REINSTALL EQUIPMENT REMOVED. CONTRACTOR SHALL REPLACE ANY DAMAGED EQUIPMENT TO MATCH EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE STATION.

II. CONTRACTOR SHALL ENSURE EQUIPMENT CURBS ARE A MINIMUM OF 12" ABOVE ROOF EPDM. CONTRACTOR SHALL EXTEND CURBS OF EQUIPMENT WHICH ARE NOT A MINIMUM OF 12" ABOVE ROOF EPDM.

III. EQUIPMENT DESIGNATED TO BE REMOVED AND PRESERVED FOR REINSTALLATION FOR THE PURPOSE OF ROOF REPLACEMENT MUST BE COORDINATED WITH THE COR PRIOR TO REMOVAL. EQUIPMENT MUST BE REMOVED DURING OFF HOURS AND REINSTALLED PRIOR TO THE START OF BUSINESS HOURS TO PREVENT INTERRUPTION OF NORMAL BUILDING OPERATIONS.

EQUIPMENT SCHEDULE – BUILDING 139

TAG	SYMBOL	DESCRIPTION	EQUIPMENT CURB EXTENSION REQUIRED
01		ROOF DRAIN	N/A
02		PLUMBING VENT	YES
03		PLUMBING VENT	YES
04		ABANDONED ROOF RAIL	N/A
05		ABANDONED ROOF CAP	N/A
06		UPBLAST EXHAUST FAN	YES
07		DOWNBLAST EXHAUST FAN	YES
08		DOWNBLAST EXHAUST FAN	NO
09		UPBLAST EXHAUST FAN	NO
10		DOWNBLAST EXHAUST FAN	YES
11		UPBLAST EXHAUST FAN	NO
12		DOWNBLAST EXHAUST FAN	NO
13		UPBLAST EXHAUST FAN	NO
14		UPBLAST EXHAUST FAN	NO
15		REFRIGERATION CONDENSING UNIT SERVES COOLER #1 WALK IN 135	YES
16		REFRIGERATION CONDENSING UNIT SERVES COOLER #2 WALK IN 133	YES
17		REFRIGERATION CONDENSING UNIT SERVES FREEZER #1 WALK IN 136	YES
18		REFRIGERATION CONDENSING UNIT SERVES FREEZER #2 WALK IN 134	YES
19		REFRIGERATION CONDENSING UNIT SERVES FREEZER #3 WALK IN 134	YES
20		REFRIGERATION CONDENSING UNIT SERVES COOLER #4 WALK IN 127	YES
21		REFRIGERATION CONDENSING UNIT SERVES COOLER #3 WALK IN 131	YES
22		REFRIGERATION CONDENSING UNIT	YES
23		REFRIGERATION CONDENSING UNIT	YES
24		MAKE–UP AIR UNIT	NO
25		REFRIGERATION CONDENSING UNIT	YES
26		UPBLAST EXHAUST FAN	YES
27		INTAKE/RELIEF HOOD	NO
28		INTAKE/RELIEF HOOD	NO
29		UPBLAST EXHAUST FAN	YES
30		INTAKE/RELIEF HOOD	YES
31		ABANDONED MOTORS	N/A
32		INTAKE/RELIEF HOOD	N/A
33		INTAKE/RELIEF HOOD	N/A
34		PLUMBING VENT	YES
35		PLUMBING VENT X2	YES
36		PLUMBING VENT	YES
37		PLUMBING VENT X2	YES
38		PLUMBING VENT	YES
#A		ROOF PENETRATION – EXACT TAG NUMBERS IDENTIFIED BELOW	YES
9A, 11A, 15A, 16A, 17A, 19A, 19A, 20A, 21A, 22A, 23A, 24A, 25A, 26A, 29A			N/A

NOTE: REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF HVAC EQUIPMENT.

Revisions:	Date:

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REGISTERED PROFESSIONAL Engineer No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF MECHANICAL NEW WORK PLAN - BUILDING 139

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Location: COATESVILLE VAMC

Issue Date: 05/01/25

Checked: DT / TH

Drawn: E.G.W.

Project Number: 542-23-201

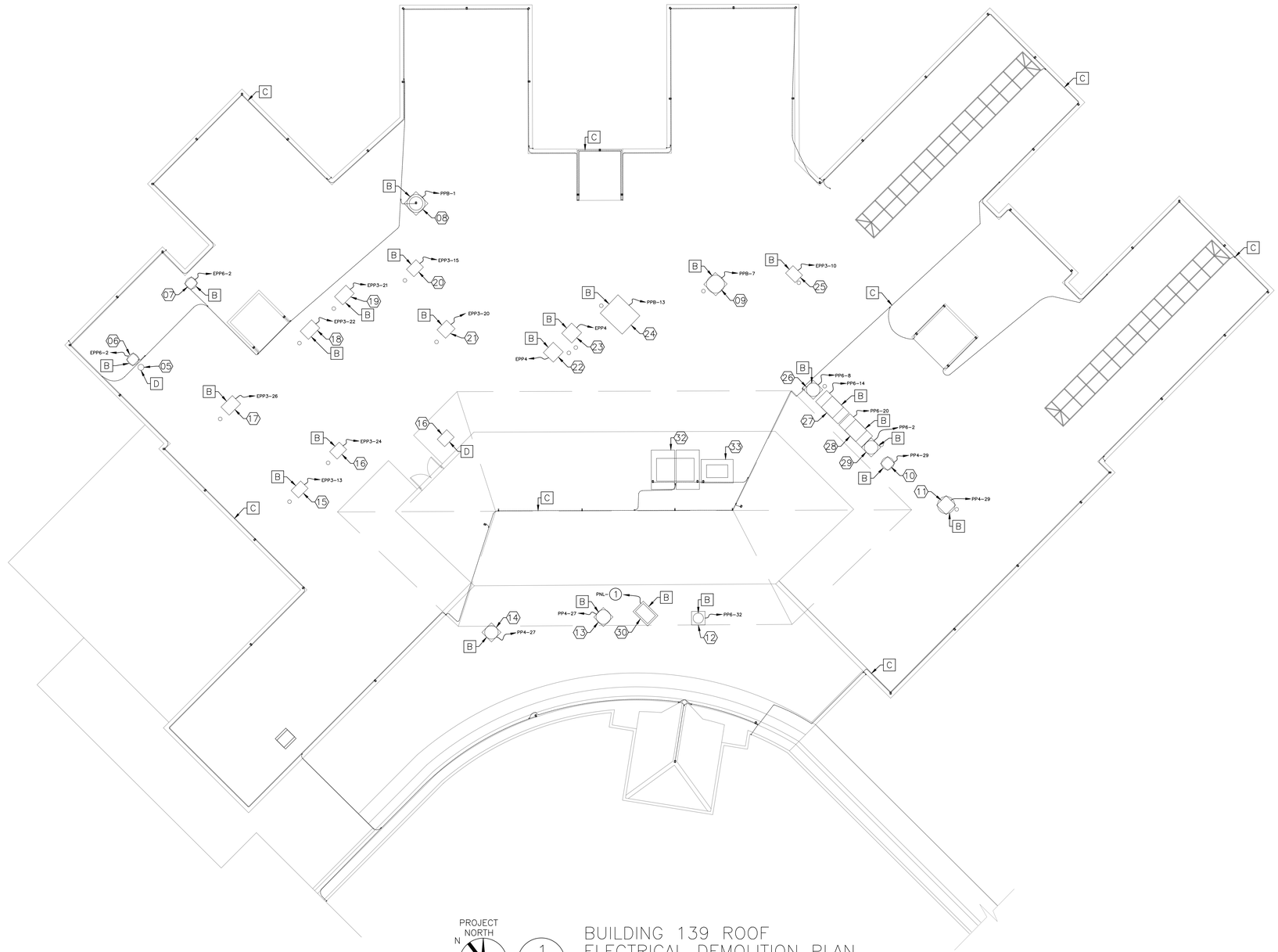
Building Number: 139

Drawing Number: M-101

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

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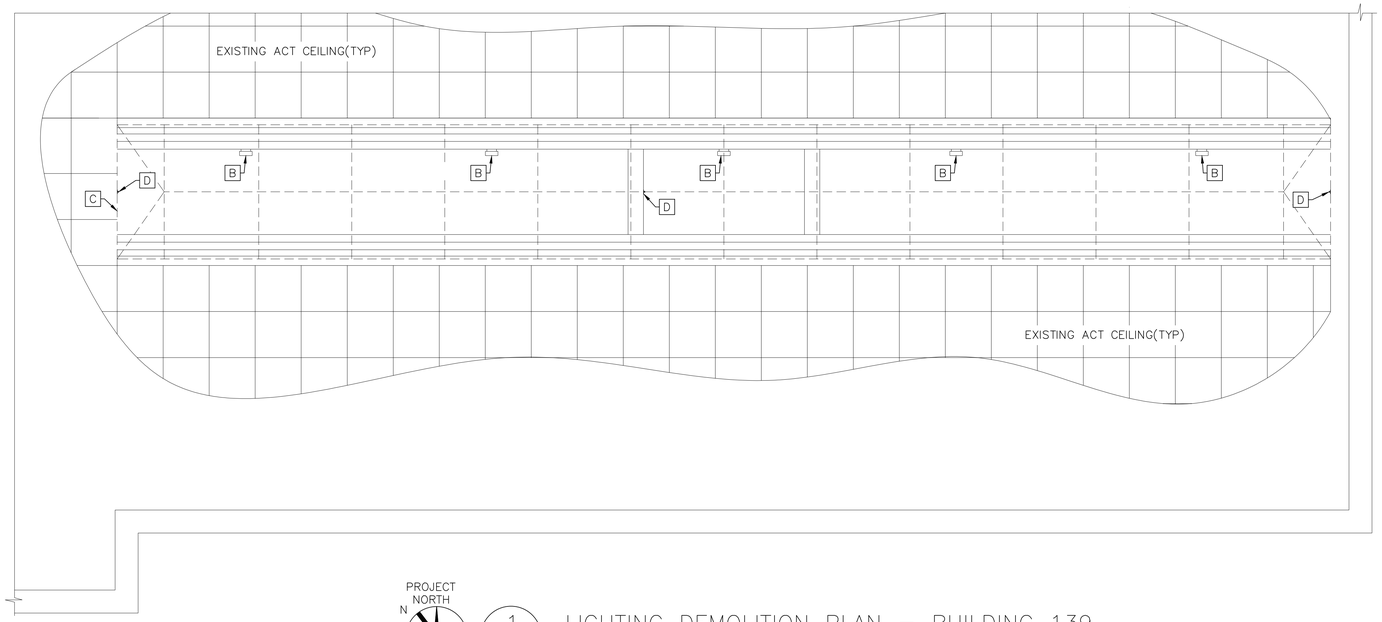
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

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



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

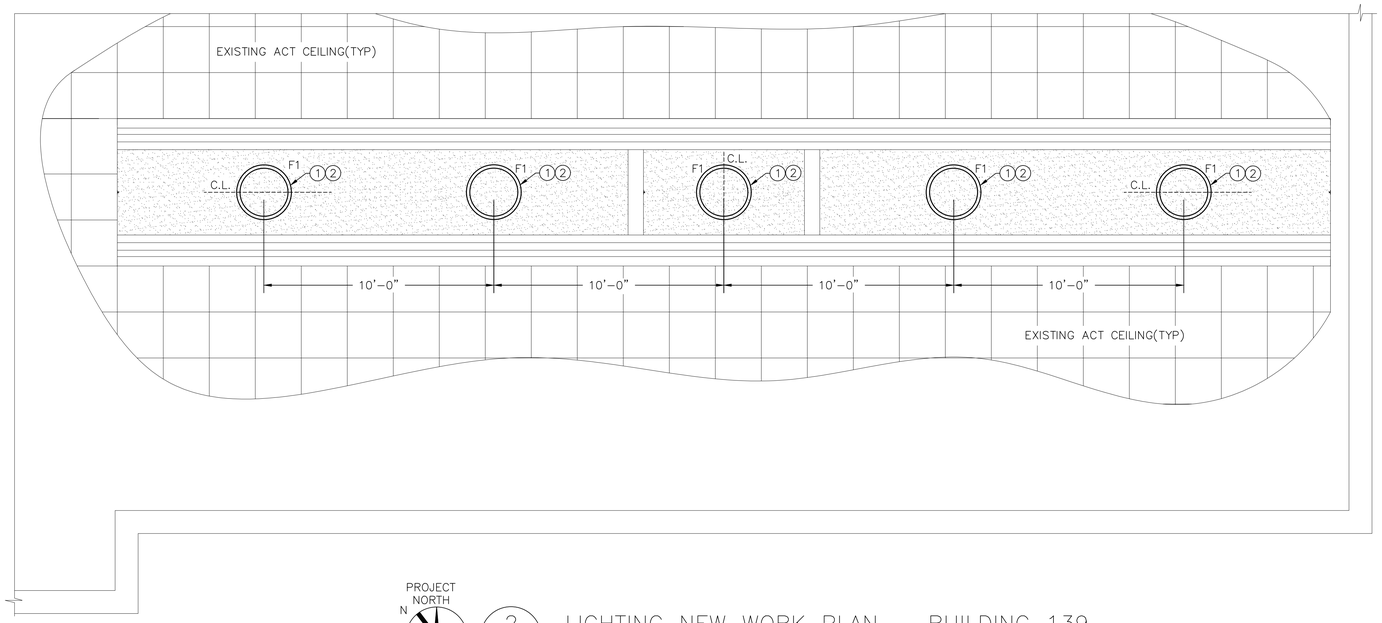
B CONTRACTOR TO DEMOLISH EXISTING LUMINAIRE AND HOUSING. MAINTAIN EXISTING CIRCUITRY AND ASSOCIATED JUNCTION BOXES. RE-USE EXISTING CIRCUITRY AND EXTEND WIRING AND CONDUIT TO NEW PENDANT LIGHTS.

C SKYLIGHT TO BE DEMOLISHED AND OPENING FILLED.

D EXISTING SPRINKLER HEAD TO REMAIN.

KEYED NOTES

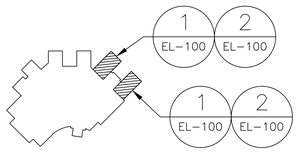
1. RE-USE EXISTING CIRCUITRY TO SUPPLY POWER TO NEW 'F1' PENDANTS. EXISTING CIRCUITRY IS SUPPLIED BY PANEL 'ELP2' LOCATED WITHIN THE ELECTRICAL ROOM B-101. PANEL 'ELP2' IS RATED AT 100A 277/480V 3P 4W AND IS SUPPLIED POWER FROM PANEL 'EDP' RATED AT 400A 277/480V 3P 4W. CONTRACTOR SHALL RETAIN EXISTING 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"

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

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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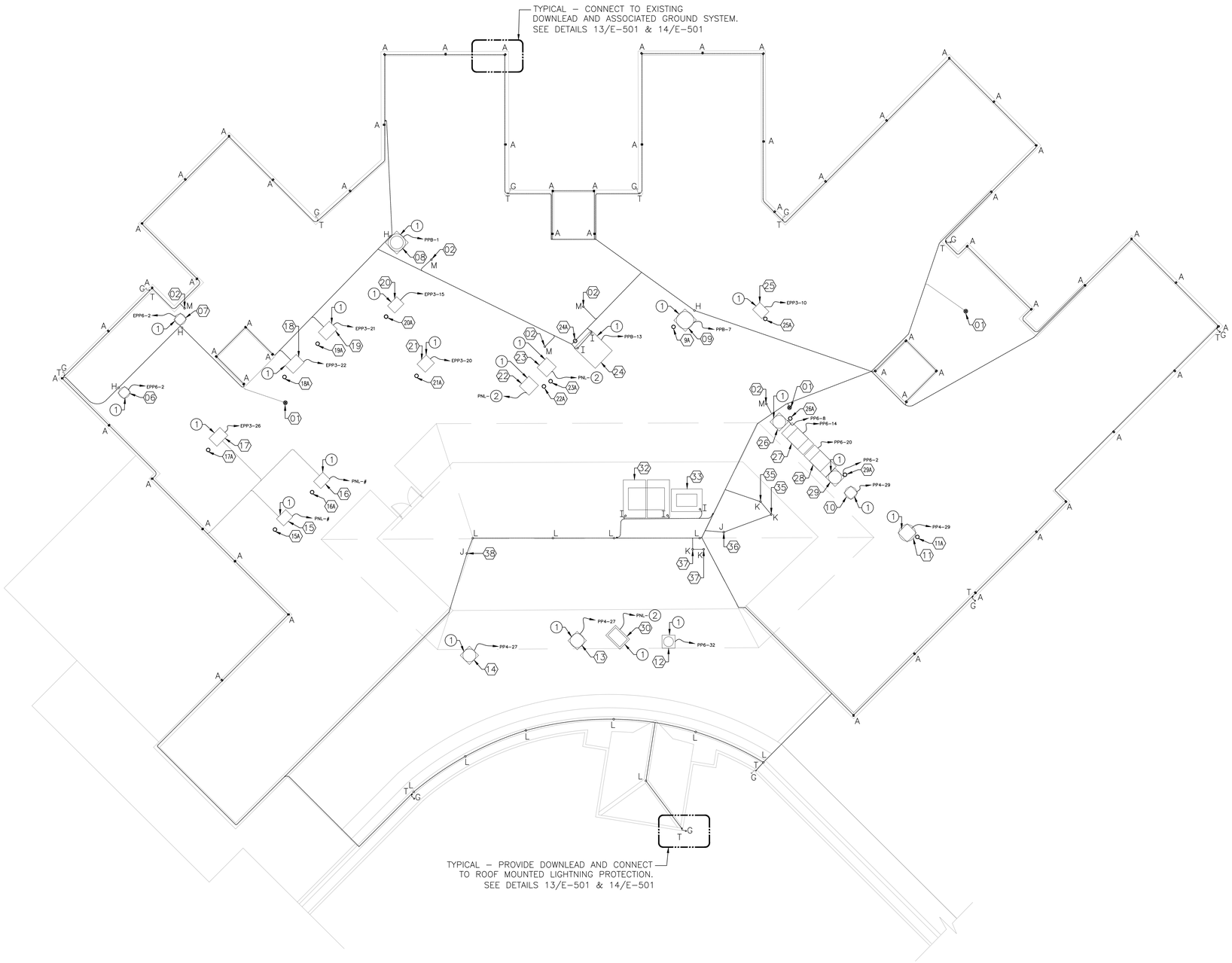

PROJECT NORTH

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
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
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		

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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.

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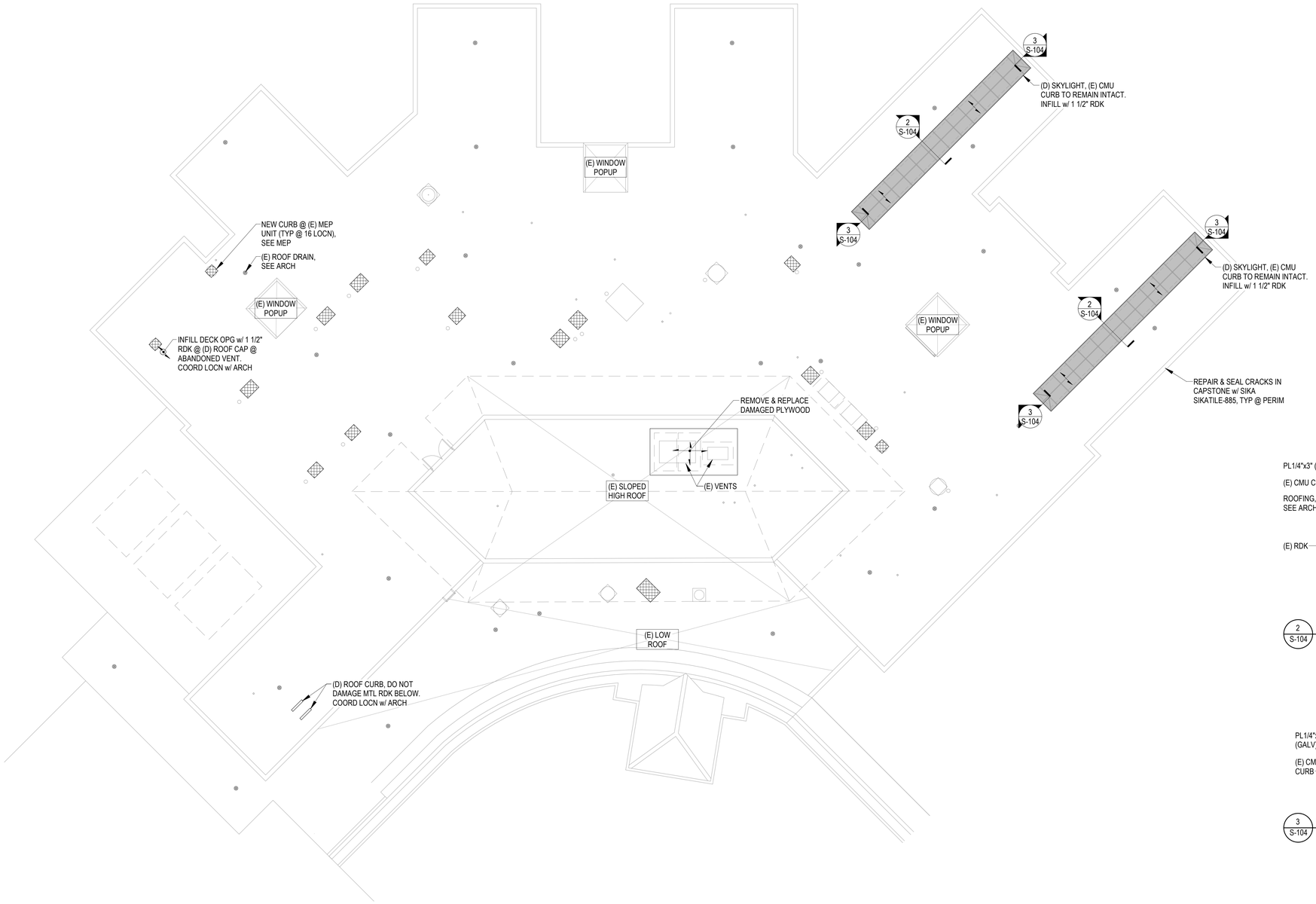
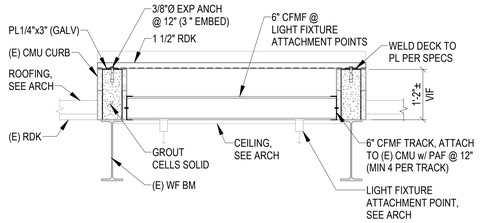


1 S-104 FRAMING PLAN - ROOF

8' 0 8' 16 24'

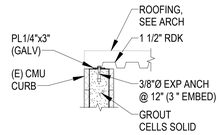
SCALE AT FULL SIZE 3/32" = 1'-0"



2 S-104 SECTION - SKYLIGHT INFILL PERP DECK

1' 0 1' 2' 3'

SCALE AT FULL SIZE 3/4" = 1'-0"



3 S-104 SECTION - SKYLIGHT INFILL PARALLEL DECK

1' 0 1' 2' 3'

SCALE AT FULL SIZE 3/4" = 1'-0"

LEGEND

- INFILL ROOF DECK @ (D) SKYLIGHT
- INFILL ROOF DECK @ (D) ROOF OPENING CAP
- MEP UNITS TO RECIEVE NEW CURBS
- (D) ROOF CURB, DO NOT DAMAGE ROOF DECK

DEMOLITION PLAN NOTES:

1. REFERENCE THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF DEMOLITION WORK. WORK THE STRUCTURAL DEMOLITION DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL AND EXISTING BUILDING DRAWINGS.
2. REFERENCE THE EXISTING BUILDING DRAWINGS FOR EXISTING BUILDING CONSTRUCTION NOT SHOWN ON PLAN.
3. FIELD VERIFY CONDITIONS PRIOR TO DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL SHORING AND BRACING OF EXISTING CONSTRUCTION DURING DEMOLITION UNLESS NOTED OTHERWISE.

FRAMING PLAN NOTES:

1. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIREPROOFING REQUIREMENTS.
2. REFERENCE SHEET S-300 FOR TYPICAL DETAILS OF CONSTRUCTION NOT SHOWN ON PLAN.
3. 1 1/2" RDK INDICATES 1 1/2" DEEP 18 GA GALVANIZED STL ROOF DECK.
   A. AT INFILLS IN THE PLANE OF EXISTING ROOFING - MATCH PROFILE OF EXISTING DECK AND OVERLAP 6" WITH EXISTING DECK AND FASTEN TO EXISTING DECK WITH #10 SELF TAPPING SCREWS AT 12" SPACING AROUND PERIMETER.
   B. AT SKYLIGHT INFILL - PROVIDE TYPE B DECK AND FASTEN PER SECTION.

CONSTRUCTION NOTATION:

WORK INDICATED IS NEW UNLESS NOTES AS:
(E) = EXISTING CONSTRUCTION TO REMAIN
(D) = DEMOLISH EXISTING CONSTRUCTION
(R) = REPLACE EXISTING CONSTRUCTION WITH ___

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ROOF PLAN & SECTIONS - BUILDING 139	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 & 139	542-23-201
			Building Number: 139
		Location: COATESVILLE VAMC	Drawing Number: S-104
		Issue Date: 05/01/2025 · Checked: PTF · Drawn: MDS	

VA FORM 08 - 6231

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1 STAGING PLAN
3/32" = 1'-0"

GENERAL NOTES

1. ENSURE EQUIPMENT, FENCING, VEHICLES, TRASH PILE AND RAW MATERIALS DO NOT BLOCK THE FDC, PIV, FIRE HYDRANT OR FIRE ALARM PANEL.
2. ENSURE EQUIPMENT, FENCING, VEHICLES, TRASH PILE AND RAW MATERIALS DO NOT BLOCK INGRESS/EGRESS.
3. ENSURE TRASH/DISCARD AREA IS NOT IN AN AREA WHERE STAFF, PATIENTS OR VISITORS WILL BE WALKING.
4. ENSURE PERMITS ARE OBTAINED FOR ANY HOT WORK.
5. ENSURE CONTRACTORS SEAL ALL PENETRATIONS WITH APPROVED FIRE RETARDANT
6. REFER TO PHASING PLANS FOR EACH BUILDING FOR FURTHER DETAILS.
7. GENERAL CONTRACTOR TO COORDINATE LOCATION OF OFFICE TRAILER WITH COR.

STAGING PLAN KEYNOTES

1. OFFICE TRAILER LOT - SCOPE OF WORK. GC IS ALLOWED A PARKING AREA FOR A CONSTRUCTION OFFICE TRAILER WITHIN PARKING LOT T21. THE EXACT LOCATION OF THE TRAILER TO BE COORDINATED WITH THE COR ON SITE.

LEGEND

BUILDING HATCH - SCOPE OF WORK

OFFICE TRAILER LOT - SCOPE OF WORK

Revisions:	Date:

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA
JOHN P. HOGAN III

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
STAGING PLAN	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 69 -139
		Location: COATESVILLE VAMC	Drawing Number: A-001
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	

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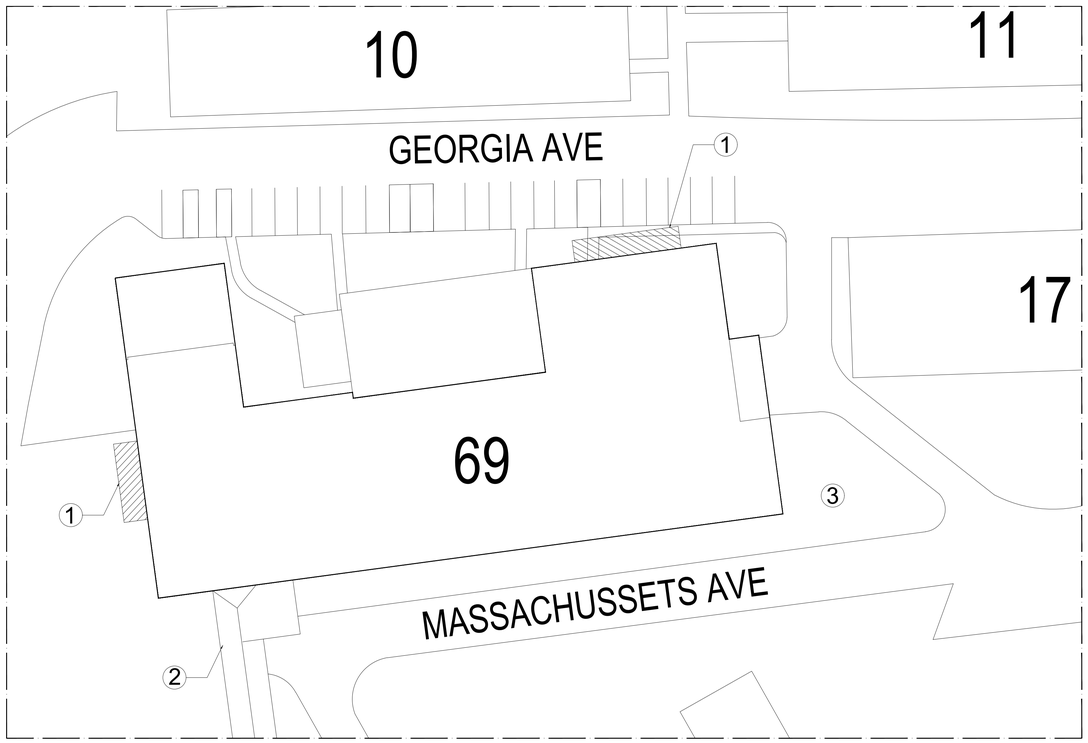


1 STAGING PLAN BUILDING 69
N.T.S

STAGING PLAN KEYNOTES

#

1 OVERHEAD PROTECTION CANOPY TO BE PROVIDED & INSTALLED.

2 CONTRACTOR TO PROTECT ROOFING, FLASHING AND STRUCTURE OF TUNNEL BELOW FROM FALLING DEBRIS, FULLY PROTECT FROM DAMAGE AS REQUIRED.

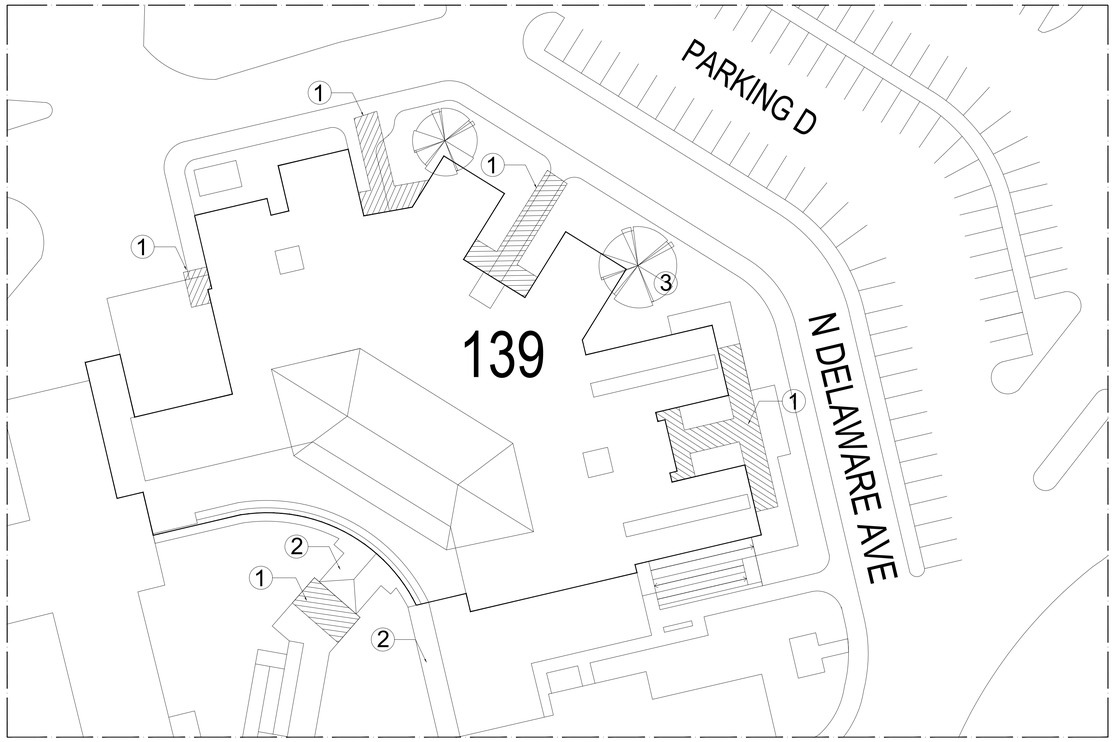
3 PROVIDE & INSTALL PROPOSED DUMPSTER, CHUTE AND OSHA COMPLIANT SCAFFOLDING LOCATION. CONTRACTOR TO SUBMIT A PLAN LOCATION. PROPOSED LOCATION TO BE SUBMITTED BY THE CONTRACTOR FOR VA APPROVAL AND TO BE COORDINATED WITH THE COR.

GENERAL NOTES

- ENSURE EQUIPMENT, FENCING, VEHICLES, TRASH PILE AND RAW MATERIALS DO NOT BLOCK THE FDC, PIV, FIRE HYDRANT OR FIRE ALARM PANEL.
- ENSURE EQUIPMENT, FENCING, VEHICLES, TRASH PILE AND RAW MATERIALS DO NOT BLOCK INGRESS/EGRESS.
- ENSURE TRASH/DISCARD AREA IS NOT IN AN AREA WHERE STAFF, PATIENTS OR VISITORS WILL BE WALKING.
- ENSURE PERMITS ARE OBTAINED FOR ANY HOT WORK.
- ENSURE CONTRACTORS SEAL ALL PENETRATIONS WITH APPROVED FIRE RETARDANT
- CONTRACTOR TO SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY P.E., FOR OVERHEAD PROTECTION CANOPY FOR REVIEW AND APPROVAL.
- GRADING SHALL BE RESTORED AND ANY LAWN SHALL BE SEEDED AND WATERED SO AS TO RESTORE THE SITE TO PRE-CONSTRUCTION.
- FULLY PROTECT OUTSIDE AIR INTAKES DURING ALL TUCKPOINTING ACTIVITIES.
- CONTRACTOR WILL BEGIN BY PROVIDING & INSTALLING OVERHEAD CANOPY PROTECTION AT ALL POINTS OF EGRESS WITHIN THE AREA OF SCOPE AS SHOWN IN PLAN AND PER THE APPROVED SHOP DRAWINGS. THEN BEGIN ON THE ROOF REPLACEMENT AND REPAIRS AS NOTED IN THE DRAWINGS.
- PROVIDE & INSTALL NEW GRASS TO BE SEEDED, STRAWED, WATERED, AND 6-MONTH BIO-DEGRADABLE MESH.

LEGEND

OVERHEAD PROTECTION



2 STAGING PLAN BUILDING 139
N.T.S

Revisions:	Date:

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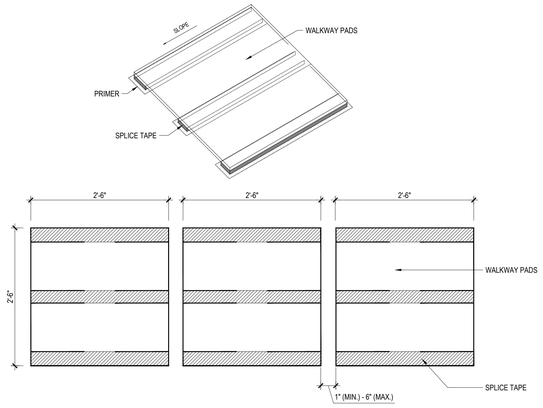
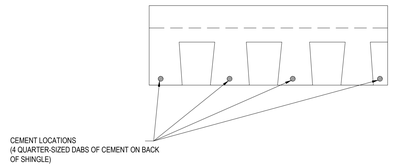
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
STAGING PLAN	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 69 -139
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-002

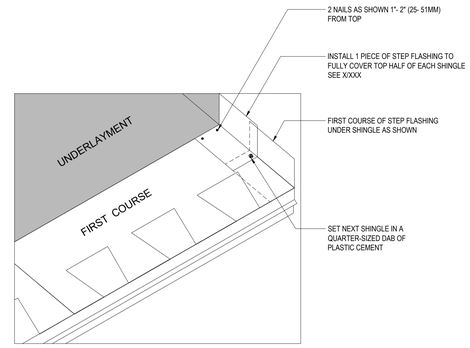
VA FORM 08 - 6231



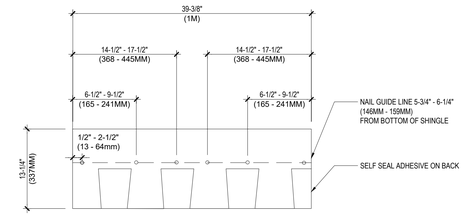
1 EPDM WALKWAY PADS DETAIL (TYP)
SCALE: NTS



2 TYP. ASPHALT SHINGLE SEALANT LOCATION
SCALE: NTS

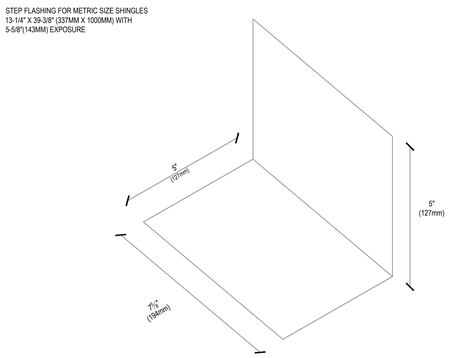


3 STEP FLASHING DETAIL
SCALE: NTS

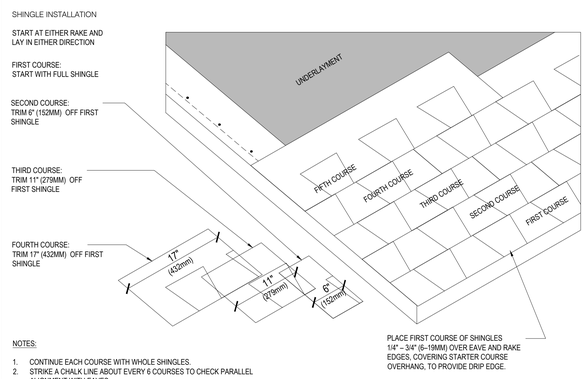


ENHANCED NAILING PATTERN - SIX NAILS PER SHINGLE*
* REQUIRED BY SOME LOCAL CODES AND REQUIRED FOR ENHANCED WIND COVERAGE ON CERTAIN PRODUCTS.
SEE LIMITED WARRANTY FOR DETAILS.

4 TYP. ASPHALT NAIL PLACEMENT DETAIL
SCALE: NTS

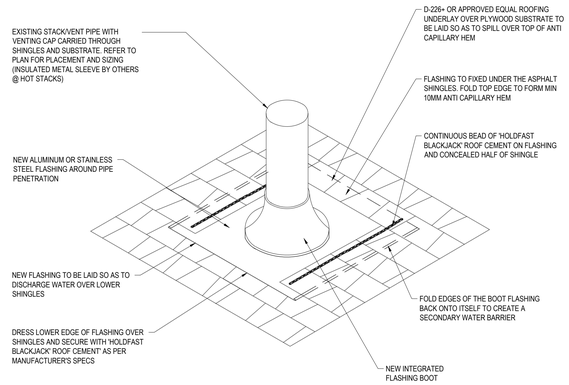


5 STEP FLASHING DETAIL
SCALE: NTS

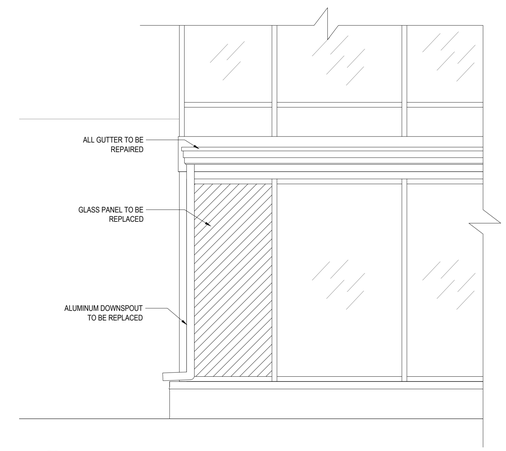


NOTES:
1. CONTINUE EACH COURSE WITH WHOLE SHINGLES.
2. STRIKE A CHALK LINE ABOUT EVERY 6 COURSES TO CHECK PARALLEL ALIGNMENT WITH EAVES.

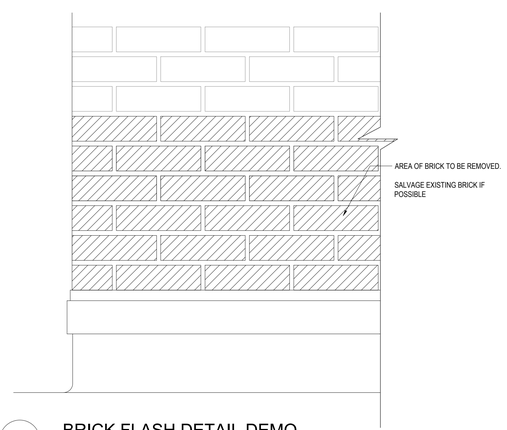
6 TYP. ASPHALT SHINGLE INSTALLATION DETAIL
SCALE: NTS



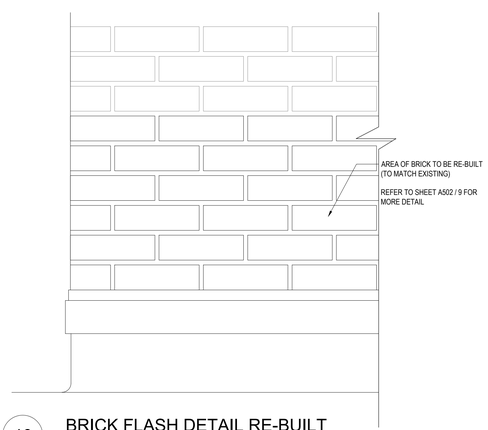
7 VENT PIPE/ PENETRATION DETAIL (TYP)
SCALE: NTS



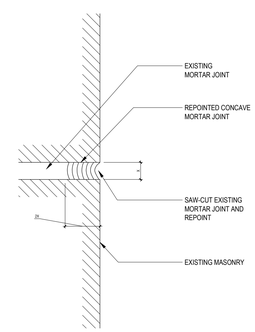
8 GLASS STRUCTURE ABOVE THE POOL - ELEVATION
SCALE: NTS



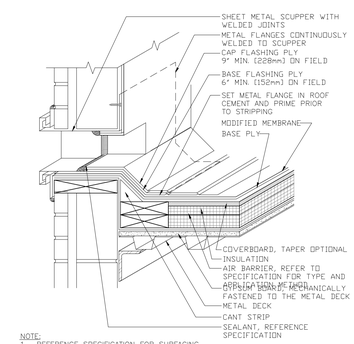
9 BRICK FLASH DETAIL DEMO
SCALE: NTS



10 BRICK FLASH DETAIL RE-BUILT
SCALE: NTS



11 REPOINTING DETAIL (TYP)
SCALE: NTS



NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.
2. ASSURE ROOF AIR BARRIER PROPERLY TIES INTO WALL SYSTEM AIR BARRIER, IF PRESENT.

12 SCUPPER THROUGHWALL - OVERFLOW
SCALE: NTS

Revisions:	Date:

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JOHN MORGAN PETTIT III
RA-024611
BY STATE

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

Drawing Title	Phase	Project Title	Project Number
ROOF DETAILS	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 139 - 69
		Location: COATESVILLE VAMC	Drawing Number: A-501
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	

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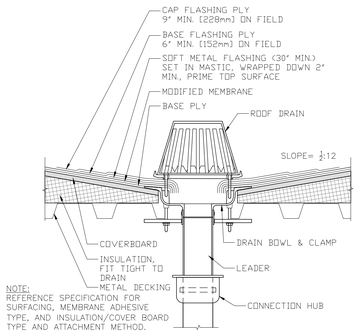
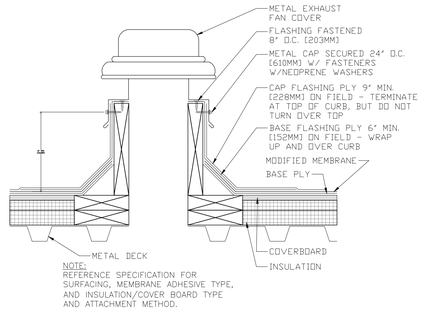
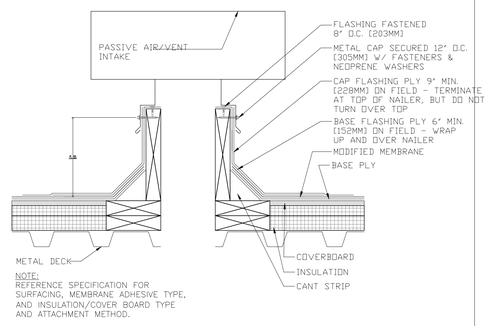


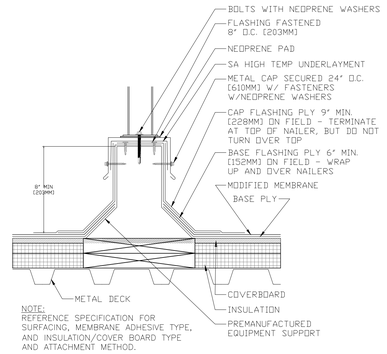
1 ROOF DRAIN (TYP)
SCALE: NTS



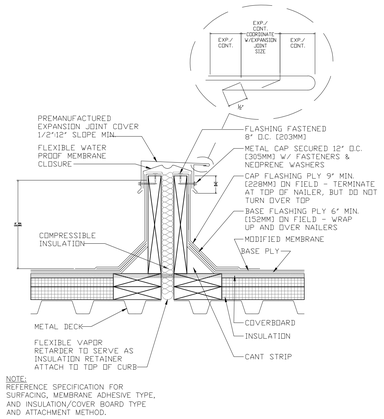
2 EXHAUST FAN (TYP)
SCALE: NTS



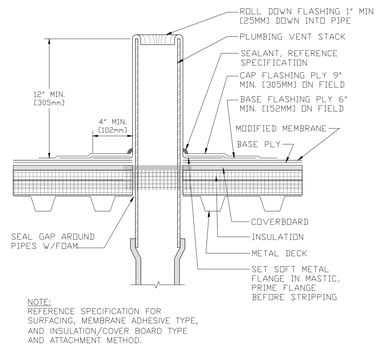
3 PASSIVE AIR / VENT INTAKE (TYP)
SCALE: NTS



4 EQUIPMENT SUPPORT - PREMANUFACTURED (TYP)
SCALE: NTS

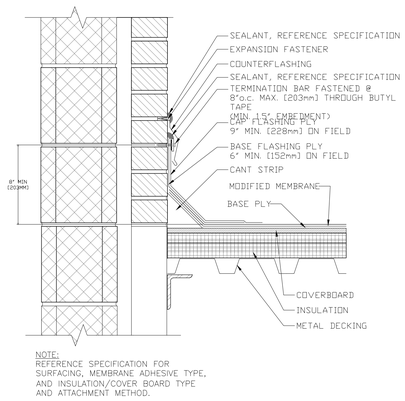


5 EXPANSION JOINT (TYP)
SCALE: NTS

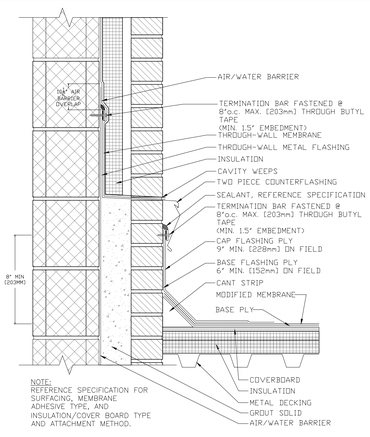


6 PLUMBING STACK (TYP)
SCALE: NTS

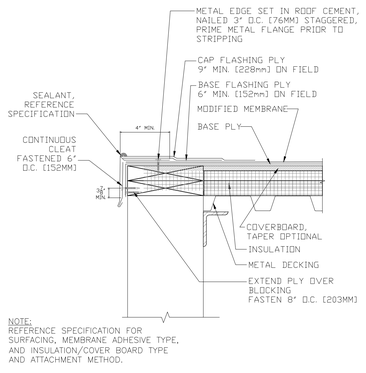
- NOT USED
-



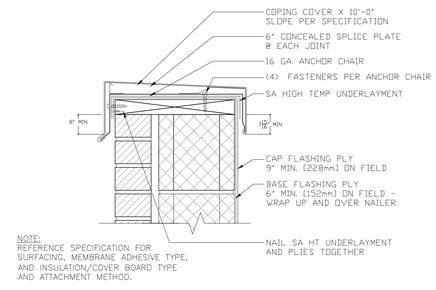
8 WALL FLASHING-REGLET MOUNTED COUNTERFLASHING (TYP)
SCALE: NTS



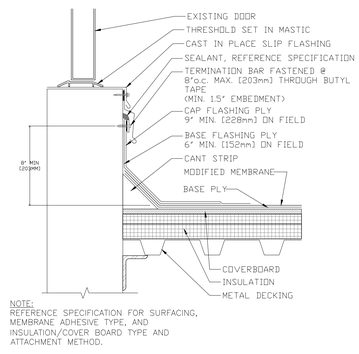
9 WALL FLASHING - WITH THROUGH-WALL FLASHING (TYP)
SCALE: NTS



10 METAL EDGE - DRIP EDGE (TYP)
SCALE: NTS



11 COPING CAP AT MASONRY WALL (TYP)
SCALE: NTS



12 DOOR THRESHOLD DETAIL (TYP)
SCALE: NTS

Revisions:	Date:

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MICHAEL J. HOGAN AR-018111

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VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ROOF DETAILS	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: 139 - 69
		Location: COATESVILLE VAMC	Drawing Number: A-502
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	

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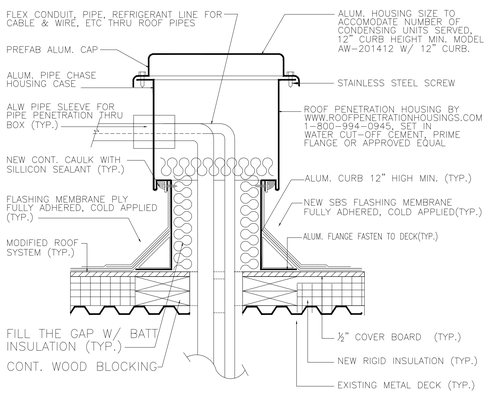
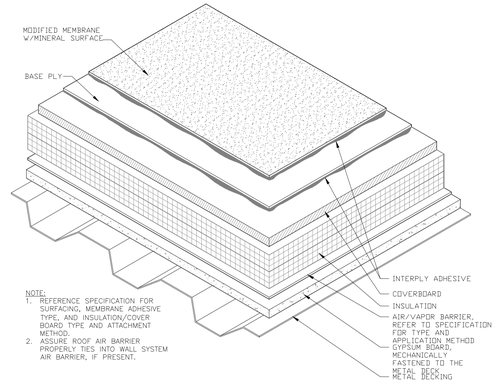
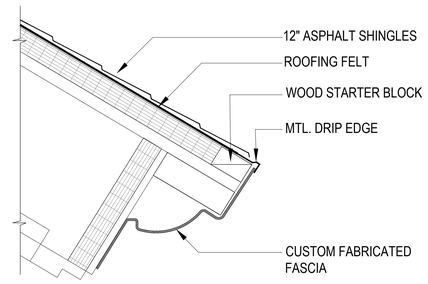


1 ROOF PENETRATION HOUSING (TYP)
SCALE: NTS



NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.
2. ASSURE ROOF AIR BARRIER PROPERLY TIES INTO WALL SYSTEM AIR BARRIER, IF PRESENT.

2 TYPICAL ROOF SYSTEM MINERAL SURFACE (TYP)
SCALE: NTS



3 FASCIA PENTHOUSE ROOF (TYP)
SCALE: NTS

- NOT USED
-

- NOT USED
-

- NOT USED
-

- NOT USED
-

- NOT USED
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- NOT USED
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- NOT USED
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- NOT USED
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- NOT USED
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- NOT USED
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Revisions:	Date:

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Drawing Title	Phase	Project Title	Project Number
ROOF DETAILS	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
		Location: COATESVILLE VAMC	Building Number: 139 - 69
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: JA	Drawing Number: A-503

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NOTE: IN THE CASE AN EXISTING WALL MUST BE DISTURBED FOR DEMOLITION OF EXISTING PIPING OR INSTALLATION OF NEW PIPING, CONTRACTOR SHALL RESTORE/REPAIR THE WALL TO ITS ORIGINAL CONDITION INCLUDING FIRE/SMOKE RATINGS, STRUCTURAL INTEGRITY, AND WALL FINISH. WHERE WALL PENETRATIONS ARE MADE THEY SHALL BE SEALED WITH THE APPROPRIATE FIRESTOPPING SEALANT OR FIRE CAULK TO RESTORE THE WALL TO ITS ORIGINAL FIRE/SMOKE RATING.

PLUMBING PIPING SYMBOLS

CW	EXISTING DOMESTIC COLD WATER
HW	EXISTING DOMESTIC HOT WATER
HWR	EXISTING DOMESTIC HOT WATER RETURN
T T	EXISTING TEMPERED WATER
GWA	EXISTING GREY WATER PIPING (ABOVE FF)
GWB	EXISTING GREY WATER PIPING (BELOW FF)
V	EXISTING VENT PIPING
D	EXISTING DRAIN PIPING
CW	NEW DOMESTIC COLD WATER
HW	NEW DOMESTIC HOT WATER
HWR	NEW DOMESTIC HOT WATER RETURN
T T	NEW TEMPERED WATER
GWA	NEW GREY WATER PIPING (ABOVE FF)
GWB	NEW GREY WATER PIPING (BELOW FF)
	NEW SANITARY VENT PIPING
LPG	LIQUEFIED PETROLEUM GAS

GENERAL PLUMBING SYMBOLS

- DIRECTION OF FLOW
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- GREY WATER CLEAN OUT
- HOSE BIB
- HOSE REEL
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- AUTOMATIC CONTROL VALVE
- GATE VALVE
- BALL VALVE
- PRESSURE REGULATING VALVE
- BALANCING VALVE
- MIXING VALVE
- WATER FILTER
- EYE WASH COMBINATION WITH EMERGENCY SHOWER
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- CAP OR PLUG
- RISE OR DROP IN PIPE
- PIPE UP
- PIPE DOWN
- PIPE UP AND DOWN
- VALVE ON RISE
- VALVE ON DROP
- DROP TEE
- STRAINER
- BLIND FLANGE
- THERMOMETER
- PRESSURE GAUGE
- PUMP
- EYE WASH
- FLOOR DRAIN
- INSULATED FLEXIBLE DUCTWORK
- ABB. VOLUME DAMPER
- EQUIPMENT TAG – REFER TO SCHEDULES

PLUMBING ABBREVIATIONS

ACM	ASBESTOS CONTAINING MATERIAL
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
BMS	BUILDING MANAGEMENT SYSTEM
BP	BOOSTER PUMP
BT	BATHTUB
C	CELSIUS
CD	CONDENSATION DRAIN
CO	CLEANOUTS
CS	CLINICAL SINK
Cu	COPPER
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
CWS	DOMESTIC COLD WATER SUPPLY
DI	DEIONIZED WATER
DN	DOWN
DOE	DEPARTMENT OF ENERGY
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EL	ELEVATION
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPACT	ENERGY POLICY ACT
ESH	EMERGENCY SHOWER
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
EWS	EYE WASH STATION
EWS/SH	EYE WASH/DRENCH SHOWER
EX	EXISTING
F	FAHRENHEIT
FF	FINISH FLOOR
FCW	FILTERED COLD WATER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT (HOSE) CONNECTION
FM	FLOW METER
FP	FIRE PROTECTION
FS	FLOOR SINK
FS	FLOW SWITCH
GAL	GALLON
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H&CW	HOT AND COLD WATER
HB	HOSE BIB
HCW	HIGH PRESSURE COLD WATER
HEX	HEAT EXCHANGER
HHW	HIGH PRESSURE HOT WATER
HHWR	HIGH PRESSURE HOT WATER RETURN
HP	HORSEPOWER
HS	HAND SINK
HST	HOT WATER STORAGE TANK (DOMESTIC)
HW	DOMESTIC HOT WATER
HWB	HOT WATER BOILER
HWCP	HOT WATER CIRCULATING PUMP
HWP	HOT WATER PUMP
HWR	DOMESTIC HOT WATER RETURN
HWS	DOMESTIC HOT WATER SUPPLY
ID	INSIDE DIAMETER
IP	INSULATE PIPE
IPR	INSULATE ASBESTOS INSULATED REMEDIATED PIPE
IPC	INTERNATIONAL PLUMBING CODE
IRW	IRRIGATION WATER
IWH	INSTANTANEOUS WATER HEATER
KDHW	KITCHEN DOMESTIC HOT WATER
LAV	LAVATORY
LCW	LOW PRESSURE COLD WATER
LHW	LOW PRESSURE HOT WATER
LHWR	LOW PRESSURE HOT WATER RETURN
M	METER
MED	MEDICAL
MER	MECHANICAL EQUIPMENT ROOM
MOU	MEMORANDUM OF UNDERSTANDING
MSB	MOP SERVICE BASIN
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
OVF	OVERFLOW
PD	PRESSURE DROP OR DIFFERENCE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PG	PRESSURE GAUGE
PP	PLUMBING PUMP
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTRV	PRESSURE TEMPERATURE RELIEF VALVE
PW	POTABLE WATER
RP	RECIRCULATION PUMP
RO	REVERSE OSMOSIS WATER
SCW	SOFTENED COLD WATER
SQFT/SF	SQUARE FEET
SS	STAINLESS STEEL
ST	STORAGE TANK
TCV	TEMPERATURE CONTROL VALVE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TEMP. PROBE AND THERMAL WELL
TSTAT	THERMOSTAT
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
VB	VACUUM BREAKER
WC	WATER CLOSET
WG	WATER GAUGE
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WL	WATER LINE
WM	WATER METER
WOG	WATER OIL GAS
WPD	WATER PRESSURE DROP
WSFU	WATER SUPPLY FIXTURE UNITS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS USED.

Revisions:	Date:

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REGISTERED PROFESSIONAL ENGINEER No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING SYMBOLS & 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: PL-001
		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: E.G.W.	

VA FORM 08 - 6231

GENERAL PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.

2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY PIPE, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT SCALE LOCATION DIMENSIONS FROM THESE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED FOR THE ACCURATE CUTTING OF PIPE OR ITS EXACT LOCATION. BEFORE ANY PIPING IS INSTALLED, CONFER WITH ALL OTHER CONTRACTORS IN ORDER TO ESTABLISH THE LOCATION OF THEIR PIPING, CONDUIT, DUCTWORK, GRILLES, FOUNDATIONS, STRUCTURAL STEEL, LIGHTING FIXTURES AND OTHER EQUIPMENT SO AS TO AVOID INTERFERENCE. FAILURE TO COORDINATE SHALL NOT RESULT IN ANY ADDITIONAL EXPENSE TO THE OWNER.

3. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES. PERFORM WORK IN A NEAT, ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCES.

4. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE FOLLOWING:

   A. NEC (NFPA 70)
   B. ALL FEDERAL CODES
   C. VA DESIGN GUIDE (PLUMBING) AND REFERENCED CODES.
   D. VHA DIRECTIVE 1061–PREVENTION OF HEALTHCARE–ASSOCIATED LEGIONELLA DISEASE AND SCALD INJURY FROM POTABLE WATER DISTRIBUTION SYSTEMS.
   E. VA HANDBOOK H–18–8 SEISMIC DESIGN REQUIREMENTS

5. CONTRACTOR SHALL PROTECT THE PIPING FROM STRESS AND STRAIN.

6. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL REQUIREMENTS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE OF THE CODE.

7. WHERE PIPES PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS AND CEILINGS). SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEM. UTILIZE FIRESTOPPING PRODUCTS PER VA REQUIREMENTS.

8. REFER TO SCHEMATIC DIAGRAMS FOR ALL PIPE SIZES AND PIPING LOCATIONS NOT SHOWN ON THE PLANS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

9. COORDINATE LOCATION OF PIPING ABOVE CEILING WITH ELECTRICAL PANELS BY ELECTRICAL CONTRACTOR. DO NOT INSTALL PIPING IN DEDICATED SPACE FOR ELECTRIC PANEL.

10. ALL EQUIPMENT AND MATERIALS INCORPORATED IN THIS WORK SHALL BE NEW UNLESS NOTED OTHERWISE NOTED AND SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.

11. ALL FACTORY APPLIED COATINGS AND FINISHES SHALL BE PROVIDED WITHOUT RUST, SCRATCHES OR DENTS.

12. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION.

13. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SECTION 22 05 11 – COMMON WORK RESULTS FOR PLUMBING, PARAGRAPH, SUBMITTALS. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN REVIEWED BY THE PROFESSIONAL AND THE VA.

14. WATER CHLORINATION SUPPORT – REFER TO SPECIFICATIONS SECTION 22 08 16 DISINFECTION OF POTABLE WATER PIPING. WHENEVER THE WATER IS SHUT DOWN FOR PERIOD LASTING LONGER THAN 2 HOURS, THE BRANCH OR BRANCHES THAT WERE SHUT DOWN SHALL BE CHLORINATED IN ACCORDANCE WITH THIS SPECIFICATIONS SECTION.

15. THE CONTRACTOR SHALL NOT CORE DRILL THROUGH ANY FLOOR PRIOR TO PERFORMING A (NON–RADIOACTIVE SOURCE) SCAN ON THE FLOOR. PROVIDE SUBMITTAL OF SOURCE TO SCAN FLOOR TO VA COR FOR APPROVAL FOR ALL ASSOCIATED AREAS OF WORK. COORDINATE WITH VA COR FOR ALL FLOOR SCANS.

16. CONTRACTOR SHALL VERIFY PIPE ROUTING AND FIXTURES SERVED PRIOR TO ANY SHUT DOWN OF LIVE DOMESTIC WATER PIPING.

17. CONTRACTOR MUST ENSURE THAT ALL TEMPORARY FACILITIES ARE INSTALLED PER MANUFACTURER'S INSTRUCTIONS PRIOR TO OPERATION.

18. CONTRACTOR MUST ENSURE THAT ALL TEMPORARY FACILITIES ARE BLOCKED AND LEVELED TO MANUFACTURER'S SPECIFICATIONS PRIOR TO OPERATION.

19. THE USE OF PRESS–CONNECT TYPE FITTINGS IS PROHIBITED.

20. WORKPLACE CODE AND CONDUCT – THE CONTRACTOR SHALL, AT ALL TIMES, ACT PROFESSIONALLY AND BE RESPECTFUL TO ALL VAMC PATIENTS AND STAFF. WHERE YOU ARE WORKING IS THE HOME FOR OUR VETERANS. FOUL AND/OR ABUSIVE LANGUAGE WILL NOT BE TOLERATED. THE CONTRACTOR SHALL NOT WEAR INAPPROPRIATE OR HEAVILY SOILED CLOTHING.

21. COORDINATE LOCATIONS AND INSTALLATION OF PLUMBING WORK TO AVOID CONFLICTS AND INTERFERENCES, MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE COMPLETELY RESOLVED BY CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE VA.

22. LOCATIONS OF HOSPITAL PLUMBING EQUIPMENT REPRESENTED ON DRAWINGS ARE GENERALLY SCHEMATIC AND SHALL BE COORDINATED TO ACCOMMODATE EXISTING CONDITIONS WITH IN THE FACILITY.

23. CONTRACTOR SHALL COORDINATE WITH FACILITY ENGINEERING TO IDENTIFY AND COORDINATE THE IMPACTED AREAS OF A SYSTEM SHUTDOWN.

24. CONTRACTOR SHALL PROVIDE SELF–CONTAINED TEMPORARY EYEWASH IN AREA OF KITCHEN THAT WILL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE SHOP DRAWINGS.

PLUMBING INSTALLATION REQUIREMENTS

1. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS AND ALL DOCUMENTS LISTED IN ITEM 4 OF THE GENERAL PLUMBING NOTES SECTION ON PL–002. MAINTAIN CLEARANCES FOR ACCESS TO MAINTAIN AND SERVICE EQUIPMENT, VALVES AND CONTROLS.

2. ALL WORK SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER SO AS NOT TO DAMAGE ANY SURFACES, EQUIPMENT OR MATERIALS.

3. ALL EQUIPMENT AND PIPING SHALL BE SUPPORTED IN AN APPROVED MANNER FROM THE BUILDING STRUCTURE AND INCLUDE HANGERS AND RESTRAINTS IN ACCORDANCE WITH ALL APPLICABLE CODES.

4. THE MANUFACTURERS AND MODEL NUMBERS LISTED ON THE SCHEDULES AND DETAILS ARE THE BASIS OF DESIGN FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR REFERENCE PURPOSE ONLY AND IS NOT INTENDED TO PRECLUDE SUBMITTAL OF OTHER MANUFACTURERS OF EQUAL QUALITY SUBJECT TO APPROVAL BY THE VA PROJECT ENGINEER.

5. RUNOUTS TO EQUIPMENT SHALL BE SIZED AS INDICATED AND INCREASED OR REDUCED AT POINT OF FINAL CONNECTION TO EQUIPMENT.

6. ALL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION IN ACCORDANCE WITH APPLICABLE CODE OR REGULATION.

7. CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS THROUGH WALL, FLOORS AND WATERTIGHT IMMEDIATELY UPON COMPLETION OF WORK IN ANY AREA. SEAL ALL PIPE PENETRATION THROUGH FIRE–RATED PARTITIONS WITH UL RATED FIRE RETARDANT CAULKING COMPOUND.

8. IN CASE COMPLETION OF WORK WITHIN THIS CONTRACT REQUIRES ARCHITECTURAL DEMOLITION CONTRACTOR SHALL REPAIR, PAINT, AND PATCH TO MATCH EXISTING ADJACENT SURFACE. ALL WALLS AND FLOORS MUST BE PATCHED TO MATCH EXISTING FIRE RATING.

9. PIPING THAT HAS BEEN EXPOSED AS A RESULT OF ANY WORK WITHIN THIS CONTRACT SHALL RE–INSULATED AND LABELED TO REPRESENT WHAT THE PIPE IS USED FOR (I.E. DOMESTIC COLD WATER) AND ARROWS INDICATING DIRECTION OF FLOW.

GENERAL PLUMBING DEMOLITION NOTES

1. BEFORE COMMENCING ANY DEMOLITION ACTIVITIES CONTRACTOR SHALL THOROUGHLY INVESTIGATE THE SITE, THE PIPING/EQUIPMENT AND SYSTEM BEING DEMOLISHED AND ALL OTHER SYSTEMS AND EQUIPMENT TO REMAIN IN OPERATION. CONTRACTOR SHALL ENSURE THAT NO SYSTEM NOR ELEMENT THEREOF IS DAMAGED, SHUTDOWN, OR OTHERWISE ADVERSELY AFFECTED BY THE DEMOLITION ACTIVITIES. CONTRACTOR SHALL NOT CUT ANY LIVE PIPE. SHOULD A LIVE PIPE BE CUT, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CLEAN–UP, REPAIRS, RESTORATION, EQUIPMENT REPLACEMENT, AND ANY/ALL COSTS ASSOCIATED WITH THE CUTTING OF LIVE PIPE AND DAMAGE CAUSED.

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 EXISTING CONDITIONS. PRIME CONTRACTOR IS RESPONSIBLE TO DETERMINE THE FULL EXTENT OF DEMOLITION, FOR ALL TRADES, AND INCLUDE ALL REQUIRED DEMOLITION WORK, FOR ALL TRADES, 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 VA TO BE SALVAGED. REMOVE AND PLACE THE DESIGNATED SALVAGED EQUIPMENT IN A LOCATION DIRECTED BY THE VA AT NO ADDITIONAL EXPENSE.

4. PLUMBING CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND NEW WORK WITH THE PHASING AS OUTLINED IN CONSTRUCTION DOCUMENTS. THE PLUMBING CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN CONTINUED OPERATION OF THE PLUMBING SYSTEM THROUGH THE PHASES OF WORK AS INDICATED IN THE CONTRACT DOCUMENTS.

GENERAL PHASING NOTES

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.

2. OFF HOURS WORKING CONDITIONS – THE PHASING DRAWINGS AND PROJECT SPECIFICATIONS SECTION 01 00 00 GENERAL REQUIREMENTS REFLECT THE LOCATIONS AND HOURS WHERE WORK SHALL BE PERFORMED. WHEN WORK ENTAILS SHUTTING OFF WATER TO AREAS REFLECTED AS IDENTIFIED AS REQUIRING OFF HOURS WORK ON THE ICRA DRAWINGS, THE CONTRACTOR SHALL ANTICIPATE OFF HOURS WORK IN THAT PARTICULAR AREA. EXAMPLE; THE CONTRACTOR MAY NOT BE WORKING IN RADIOLOGY OR DENTAL; HOWEVER, IF THE WATER SHUTDOWN REQUEST WILL DISRUPT WATER TO THOSE AREAS, THEN THAT WORK SHALL BE PERFORMED DURING OFF HOURS. REFER TO THE PIPING PLANS TO DETERMINE WHAT AREAS WILL BE AFFECTED BY EACH WATER SHUT DOWN AND COORDINATE APPROVAL WITH COR PRIOR TO START OF WORK.

Revisions:	Date:

CONSULTANT

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Engineering • Architecture • Planning

STAMP

REGISTERED PROFESSIONAL ENGINEER No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
PLUMBING NOTES	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 &139	542-23-201
			Building Number: N/A
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		Issue Date: 05/01/25 · Checked: DT / TH · Drawn: E.G.W.	

VA FORM 08 - 6231

GENERAL MECHANICAL PIPING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL PIPING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY PIPE, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT SCALE LOCATION DIMENSIONS FROM THESE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED FOR THE ACCURATE CUTTING OF PIPE OR ITS EXACT LOCATION. BEFORE ANY PIPING IS INSTALLED, CONFER WITH ALL OTHER CONTRACTORS IN ORDER TO ESTABLISH THE LOCATION OF THEIR PIPING, CONDUIT, DUCTWORK, GRILLES, FOUNDATIONS, STRUCTURAL STEEL, LIGHTING FIXTURES AND OTHER EQUIPMENT SO AS TO AVOID INTERFERENCE. FAILURE TO COORDINATE SHALL NOT RESULT IN ANY ADDITIONAL EXPENSE TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES. PERFORM WORK IN A NEAT, ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCES.
4. CONTRACTOR SHALL PROTECT THE MECHANICAL PIPING FROM STRESS AND STRAIN.
5. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL REQUIREMENTS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE OF THE CODE.
6. WHERE PIPES PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS AND CEILINGS). SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEM. UTILIZE HILTI FIRESTOPPING PRODUCTS PER VA REQUIREMENTS.
7. REFER TO SCHEMATIC DIAGRAMS FOR ALL PIPE SIZES AND PIPING LOCATIONS NOT SHOWN ON THE PLANS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
8. COORDINATE LOCATION OF PIPING ABOVE CEILING WITH ELECTRICAL PANELS BY CONTRACTOR. DO NOT INSTALL PIPING IN DEDICATED SPACE FOR ELECTRIC PANEL.
9. ALL EQUIPMENT AND MATERIALS INCORPORATED IN THIS WORK SHALL BE NEW UNLESS NOTED OTHERWISE AND SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.
10. ALL FACTORY APPLIED COATINGS AND FINISHES SHALL BE PROVIDED WITHOUT RUST, SCRATCHES OR DENTS.
11. PROVIDE VA COR WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION.
12. EQUIPMENT INSTALLED WITHIN WORK AREAS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS, SPECIFICATIONS, AND VA HANDBOOK H-18-8 SEISMIC DESIGN REQUIREMENTS. CONTRACTOR SHALL PROVIDE STAMPED AND SEALED SHOP DRAWINGS FROM A PROFESSIONAL ENGINEER. REFER TO SPECIFICATION 13 05 41.

COORDINATION REQUIREMENT

1. COORDINATE LOCATIONS AND INSTALLATION OF MECHANICAL PIPING WORK TO AVOID CONFLICTS AND INTERFERENCES, MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE COMPLETELY RESOLVED BY CONTRACTOR IN ACCORDANCE WITH RECOMMENDATIONS OF THE VA.

MECHANICAL PIPING GENERAL DEMOLITION NOTES

1. REMOVE ALL EQUIPMENT, PIPING, INSULATION, HANGERS, CONTROLS, PADS, AND SUPPORTS UNLESS OTHERWISE INDICATED TO REMAIN.PIPING REMOVED FROM THE EXISTING MECHANICAL PIPING SYSTEM SHALL NOT BE USED IN THE INSTALLATION OF THE NEW SYSTEM.
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 EXISTING CONDITIONS. PRIME CONTRACTOR IS RESPONSIBLE TO DETERMINE THE FULL EXTENT OF DEMOLITION, FOR ALL TRADES, AND INCLUDE ALL REQUIRED DEMOLITION WORK, FOR ALL TRADES, 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 VA TO BE SALVAGED. REMOVE AND PLACE THE DESIGNATED SALVAGED EQUIPMENT IN A LOCATION DIRECTED BY THE VA AT NO ADDITIONAL EXPENSE.
4. CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING. THE CONTRACTOR SHALL CUT AND PATCH THE EXISTING WALLS AND TO MATCH EXISTING. CONTRACTOR SHALL REMOVE/REPLACE EXISTING CEILING TILES AND GRID AS REQUIRED TO ACCOMPLISH INDICATED MECHANICAL PIPING WORK, UNLESS SPECIFICALLY INDICATED OTHERWISE.
5. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND NEW WORK WITH THE PHASING AS OUTLINED IN DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN CONTINUED OPERATION OF THE MECHANICAL PIPING SYSTEM THROUGH THE PHASES OF WORK AS INDICATED IN THE CONTRACT DOCUMENTS.
6. BEFORE COMMENCING ANY DEMOLITION ACTIVITIES, CONTRACTOR SHALL THOROUGHLY INVESTIGATE THE SITE, THE PIPING/EQUIPMENT AND SYSTEM BEING DEMOLISHED, AND ALL OTHER SYSTEMS AND EQUIPMENT TO REMAIN IN OPERATION. CONTRACTOR SHALL ENSURE THAT NO SYSTEM NOR ELEMENT THEREOF IS DAMAGED, SHUTDOWN, OR OTHERWISE ADVERSELY AFFECTED BY THE DEMOLITION ACTIVITIES. CONTRACTOR SHALL NOT CUT ANY LIVE PIPE. SHOULD A LIVE PIPE BE CUT, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CLEAN-UP, REPAIRS, RESTORATION, EQUIPMENT REPLACEMENT, AND ANY/ALL COSTS ASSOCIATED WITH THE CUTTING OF THE LIVE PIPE.

GENERAL MECHANICAL PIPING WORK SCHEDULING/PHASING NOTES

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.
2. ALL WORK REQUIRED WITHIN CORRIDORS SHALL BE PERFORMED TO MAINTAIN ACCESSIBILITY THROUGH THE MEANS OF EGRESS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND VA CONSTRUCTION POLICY AND PERFORMED OVERNIGHT AS DIRECTED BY VA.
3. ACCESS PANELS TO BE ADDED AS NECESSARY FOR AREAS OF WORK ABOVE HARD CEILINGS.

GENERAL HVAC NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL, AND COATESVILLE VA HEALTH SYSTEM REQUIREMENTS AND POLICIES PERTAINING TO COVID-19; INCLUDING TESTING, SOCIAL DISTANCING, WEARING OF PPE, AND ANY OTHER RULES AS REQUIRED BY PROJECT COR.
2. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
3. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY PIPE, FITTING, VALVE, OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT SCALE LOCATION DIMENSIONS FROM THESE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED FOR THE ACCURATE CUTTING OF PIPE, FABRICATION OF DUCTWORK, OR THEIR EXACT LOCATIONS. BEFORE ANY DUCTWORK OR PIPING IS INSTALLED, CONTRACTOR SHALL SURVEY THE SITE AND VERIFY EQUIPMENT SPACE CONSTRAINTS AND CONFER WITH ALL OTHER CONTRACTORS IN ORDER TO ESTABLISH THE LOCATION OF THEIR PIPING, CONDUIT, DUCTWORK, GRILLES, FOUNDATIONS, STRUCTURAL STEEL, LIGHTING FIXTURES AND OTHER EQUIPMENT SO AS TO AVOID INTERFERENCE. FAILURE TO VERIFY SPACE CONSTRAINTS AND COORDINATE WITH EXISTING AND NEW WORK SHALL NOT RESULT IN ANY ADDITIONAL EXPENSE TO THE GOVERNMENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL SITE CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES. CONTRACTOR SHALL PERFORM WORK IN A NEAT, ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCES.
5. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:
   - A. INTERNATIONAL MECHANICAL CODE; 2018 IMC
   - B. INTERNATIONAL FUEL GAS CODE; 2018 IFGC
   - C. INTERNATIONAL ENERGY CONSERVATION CODE; 2018 IECC
   - D. IBC INTERNATIONAL BUILDING CODE; 2018 IBC
   - E. NEC (NFPA 70)
   - F. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES
   - G. VA HVAC DESIGN GUIDE
   - H. VA HANDBOOK H-18-8 SEISMIC DESIGN REQUIREMENTS
6. THE CONTRACTOR SHALL PROVIDE SENSORS, CONTROLLERS, ACTUATORS, WIRING, ETC. NECESSARY TO INTEGRATE SYSTEMS/EQUIPMENT WITH THE FACILITY BUILDING MANAGEMENT SYSTEM (SEE SPECIFICATIONS AND DRAWINGS).
7. THE CONTRACTOR SHALL PROTECT THE PIPING AND DUCTWORK FROM STRESS AND STRAIN.
8. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL REQUIREMENTS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE OF THE CODE.
9. WHERE PIPES PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS, AND CEILINGS) CONTRACTOR SHALL SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEM. UTILIZE PRODUCTS PER VA REQUIREMENTS. REFER TO PROJECT SPECIFICATIONS.
10. COORDINATE LOCATION OF PIPING AND DUCTWORK ABOVE CEILING WITH ELECTRICAL PANELS BY ELECTRICAL CONTRACTOR. DO NOT INSTALL PIPING OR DUCTWORK IN DEDICATED SPACE FOR ELECTRIC PANEL.
11. ALL EQUIPMENT AND MATERIALS INCORPORATED IN THIS WORK SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.
12. ALL EQUIPMENT COATINGS AND FINISHES SHALL BE PROVIDED WITHOUT RUST, SCRATCHES, OR DENTS.
13. CONTRACTOR SHALL PROVIDE COMPLETE LAYOUT DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS SECTION 23 05 11, COMMON WORK RESULTS FOR HVAC, PARAGRAPH – SUBMITTALS. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN REVIEWED BY THE PROFESSIONAL ENGINEER AND THE VA.
14. EQUIPMENT INSTALLED WITHIN WORK AREAS MUST BE INSTALLED INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS, SPECIFICATIONS, AND VA HANDBOOK H-18-8 SEISMIC DESIGN REQUIREMENTS. CONTRACTOR SHALL PROVIDE STAMPED AND SEALED SHOP DRAWINGS FROM A PROFESSIONAL ENGINEER. REFER TO SPECIFICATION 13 05 41.

GENERAL MECHANICAL PIPING SYMBOLS

- GATE VALVE
- CHECK VALVE
- WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
- WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
- FLEXIBLE CONNECTION
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- MODULATING CONTROL VALVE
- MODULATING CONTROL BUTTERFLY VALVE
- TWO POSITION CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE SAFETY VALVE
- AUTOMATIC BALANCING CONTROL VALVE
- WATER BALANCE DEVICE
- CIRCUIT SETTER VALVE
- GATE VALVE WITH GLOBE-VALVED BYPASS
- PLUG VALVE
- CONTROL VALVE (CV) – FLOAT-OPERATED
- PRESSURE REDUCING VALVE (PRV)
- PRS — PRESSURE REDUCING STATION
- LC — WATER LEVEL CONTROLLER
- M — FLOW METER
- PUMP
- INVERTER BUCKET TRAP ASSEMBLY
- PIPE REDUCER
- DIRECTION OF FLOW
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- CAP OR PLUG
- CHANGE OF ELEVATION ON PIPE
- PIPE RISES TO NEXT FLOOR
- PIPE DROPS
- VALVE ON PIPE DROP
- VALVE ON RISE
- PIPE RISES AND DROPS TO NEXT FLOORS
- PIPE ANCHOR
- DIRECTION OF FLOW
- STRAINER
- THERMOMETER
- PRESSURE GAGE

MECHANICAL PIPING

HHWS — HHWS	HEATING HOT WATER SUPPLY
HHWR — HHWR	HEATING HOT WATER RETURN
LPS — LPS	LOW PRESSURE STEAM PIPING
MPS — MPS	MEDIUM PRESSURE STEAM PIPING
HPS — HPS	HIGH PRESSURE STEAM PIPING
LPR — LPR	LOW PRESSURE CONDENSATE PIPING
MPR — MPR	MEDIUM PRESSURE CONDENSATE PIPING
HPR — HPR	HIGH PRESSURE CONDENSATE PIPING
PC — PC	PUMPED CONDENSATE PIPING
D — D	CONDENSATE DRAIN PIPING
SAN — SAN	SANITARY PIPING
V — V	VENT PIPING
	ATMOSPHERIC VENT
LPS — LPS	NEW LOW PRESSURE STEAM PIPING
LPR — LPR	NEW LOW PRESSURE CONDENSATE PIPING

DUCTWORK SYMBOLS

- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE REMOVED
- EXHAUST LOUVER
- STANDARD 90° ELBOW
- RADIUS 90° ELBOW
- DIRECTION OF AIR FLOW
- CEILING SUPPLY DIFFUSER
- CEILING RETURN DIFFUSER
- UP DN — SUPPLY DUCT (UP & DOWN)
- UP DN — EXHAUST DUCT (UP & DOWN)
- WALL DIFFUSER
- WALL DIFFUSER DIRECTION OF AIR FLOW

DRAWING SYMBOLS

- X / X-XX — DETAIL NUMBER / DRAWING NUMBER WHERE DRAWN
- X / X-XX — SECTION LETTER / DRAWING NUMBER WHERE SHOWN
- X — EQUIPMENT TAG REFER TO SCHEDULES

EQUIPMENT ABBREVIATIONS

AHU	= AIR HANDLING UNIT
AS	= AIR SEPARATOR
CP	= CONDENSATE PUMP
CV	= CV TERMINAL UNIT
ET	= EXPANSION TANK
FCU	= FAN COIL UNIT
FL	= FLASH TANK
FT	= FINNED TUBE RADIATOR
HX	= HEAT EXCHANGER
HWP	= HOT WATER PUMP
ST	= STEAM TRAP
SPRV	= STEAM PRESSURE REDUCING VALVE
V	= VAV TERMINAL UNIT

DIFFUSER TYPE — DIRECTION OF AIRFLOW — XX / XXX — DIFFUSER TAG — CFM (CUBIC FEET PER MINUTE)

DIFFUSER ABBREVIATIONS

SD	= SUPPLY DIFFUSER
RD	= RETURN DIFFUSER
ED	= EXHAUST DIFFUSER
SG	= SUPPLY GRILLE
RG	= RETURN GRILLE
EG	= EXHAUST GRILLE

- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK

NOTE: NOT ALL SYMBOLS USED

Revisions:	Date:

CONSULTANT: KEAST & HOOD STRUCTURAL ENGINEERS; NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD: THE PETTIT GROUP, LLC — Engineering • Architecture • Planning

STAMP: COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER No. PE041114

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL SYMBOLS & NOTES
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	M-001
Issue Date	05/01/25
Checked	DT / TH
Drawn	E.G.W.

VA FORM 08-6231

GENERAL HVAC WORK SCHEDULING/PHASING NOTES

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.

2. ALL WORK REQUIRED WITHIN CORRIDORS SHALL BE PERFORMED TO MAINTAIN ACCESSIBILITY THROUGH THE MEANS OF EGRESS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND VA CONSTRUCTION POLICY AND PERFORMED OVERNIGHT OR AS DIRECTED BY COR.

HVAC INSTALLATION REQUIREMENTS

1. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN CLEARANCES FOR ACCESS TO MAINTAIN AND SERVICE EQUIPMENT, VALVES AND CONTROLS.

2. ALL WORK SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER SO AS NOT TO DAMAGE ANY SURFACES, EQUIPMENT OR MATERIALS.

3. ALL EQUIPMENT AND PIPING SHALL BE SUPPORTED IN AN APPROVED MANNER FROM THE BUILDING STRUCTURE AND INCLUDE HANGERS AND RESTRAINTS IN ACCORDANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING AND SEISMIC RESTRAINTS TO SUPPORT EQUIPMENT, DUCTWORK, AND PIPING.

4. PROVIDE PIPE ESCUTCHEONS AT ALL EXPOSED PIPING PENETRATIONS OF FLOORS, WALLS, AND CEILINGS.

5. THE MANUFACTURERS AND MODEL NUMBERS LISTED ON THE SCHEDULES AND DETAILS ARE THE BASIS OF DESIGN FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR REFERENCE PURPOSE ONLY AND IS NOT INTENDED TO PRECLUDE SUBMITTAL OF OTHER MANUFACTURERS OF EQUAL QUALITY SUBJECT TO APPROVAL BY THE COR.

6. RUNOUTS TO EQUIPMENT SHALL BE SIZED AS INDICATED AND INCREASED OR REDUCED AT POINT OF FINAL CONNECTION TO EQUIPMENT.

7. ALL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION IN ACCORDANCE WITH APPLICABLE CODE OR REGULATION.

8. CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS THROUGH WALLS AND FLOORS WATERTIGHT. REFER TO PROJECT SPECIFICATIONS FOR PIPE SLEEVE REQUIREMENTS. SEAL ALL PIPE PENETRATION THROUGH FIRE-RATED PARTITIONS WITH UL RATED FIRE RETARDANT CAULKING COMPOUND. FIRE CAULK SHALL BE AS MANUFACTURED BY 3M OR HILTI PRODUCTS. (SEE FIRESTOPPING NOTES IN GENERAL HVAC NOTES.)

MECHANICAL ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AAHX	AIR TO AIR HEAT EXCHANGER
AAV	AUTOMATIC AIR VENT
AB	AIR BLENDER
ACC	AIR COOLED CONDENSER
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
ACD	AUTOMATIC CONTROL DAMPER, MODULATING
ACD-TP	AUTOMATIC CONTROL DAMPER,TWO POSITION
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AFW	AIR FOIL WHEEL (FAN)
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AQST	AQUASTAT
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ATV	ATMOSPHERIC VENT
AW	AIR WASHER
AXF	AXIAL FLOW
B	BOILER
B-AAC	BACNET ADVANCED APPLICATION CONTROLLER
B-ASC	BACNET APPLICATION SPECIFIC CONTROLLER
B-AWC	BACNET ADVANCED WORKSTATION
B-BC	BACNET BUILDING CONTROLLER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BDR	BASE BOARD RADIATOR
BFP	BACKFLOW PREVENTER
BFT	BOILER PLANT FIRE TUBE
BG	BOTTOM GRILLE
BHP	BRAKE HORSEPOWER
BHW	HOT WATER HEATING BOILER
BHX	BOILER BLOWDOWN HEAT EXCHANGER
BIW	BACKWARD INCLINED WHEEL (FAN)
BMT	BONE MARROW TRANSPLANT
BR	BOTTOM REGISTER
BSC	BIOLOGICAL SAFETY CABINETS
BT	BLOWOFF TANK
BTC	BLOWOFF TANK CONTROL VALVE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWT	BOILER PLANT WATER TUBE
C	CENTIGRADE (CELSIUS)
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CD-1	CONSTRUCTION DOCUMENTS (SUBMISSION1)
CD-2	CONSTRUCTION DOCUMENTS (SUBMISSION2)
CENT	CENTRIFICAL
CF	CHEMICAL FEED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CFP	CHEMICAL FEED PUMP
CG	CEILING GRILLE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHW	CHILLER WATER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CI	CAST IRON
CM	CARBON MONOXIDE
CM	CUBIC METER
CM/S	CUBIC METER PER SECOND
CO	CLEAN OUT
CO2	CARBON DIOXODE
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CS	CONDENSATE STORAGE TANK
CSG	CLEAN STEAM GENERATOR
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)
CWCC	CHILLED WATER COOLING COIL
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN (TO COOLING TOWER)
CWS	CONDENSER WATER SUPPLY (FROM COOLING TOWER)
D	DAMPER - AUTOMATIC
Db	DRY-BULB TEMPERATURE
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DD-1	DESIGN DEVELOPMENT (SUBMISSION 1)
DD-2	DESIGN DEVELOPMENT (SUBMISSION 2)
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA	DIAMETER
DIW	DEIONIZED WATER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DTM	DUCT TRAVERSE MEASUREMENT
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
ECC	ENGINEERING CONTROL CENTER
ECU	EVAPORATIVE CONDENSER UNIT
ED	EXHAUST DIFFUSER
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EGS	EMERGENCY GAS SHUTOFF
EGT	ENTERING GLYCOL TEMPERATURE
EH	EXHAUST HOOD
EJ	EXPANSION JOINT
EMD	END OF MAIN DRIP (STEAM)
ENT	ENTERING
ER	EXHAUST REGISTER
ERC	ELECTRIC REHEAT COIL
ERP	ELECTRIC RADIANT PANEL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETO	ETHYLENE OXIDE
EUH	ELECTRIC UNIT HEATER
EWC	EVAPORATIVE WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT (4 PIPE)
FCUC	FAN COIL UNIT COOLING ONLY
FCUH	FAN COIL UNIT HEATING ONLY
FCW	FORWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
FD	FIRE DAMPER
FF	FINAL FILTER
FHX	FLUE GAS/FEEDWATER HEAT EXCHANGER
FM	FLOW METER
FOP	FUEL OIL PUMP
FOT	FUEL OIL TANK
FOHX	FUEL OIL HEAT EXCHANGER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPTU	FAN POWERED TERMINAL UNIT
FR	FLOOR REGISTER
FRP	FIBER REINFORCED POLYESTER
FS	FLOW SWITCH
FSTAT	FREEZESTAT
FT	FEET
FT WC	FEET OF WATER COLUMN
FT-LB	FOOT-POUND
FTR	FIN TUBE RADIATION
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
GH	GRAVITY HOOD
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GS	GALVANIZED STEEL
H	HUMIDIFER
HAC	HOUSEKEEPING AID CLOSET
HB	HOSE BIBB
HC	HEATING COIL
HD	HOOD
HOA	HAND/OFF/AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HPDT	HIGH PRESSURE DRIP TRAP
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS	HIGH PRESSURE SUPPLY (STEAM)
HRC	HEAT RECOVERY COIL
HRD	HEAT RECOVERY DEVICE
HRP	HYDRONIC RADIANT (CEILING) PANEL
HRW	HEAT RECOVERY WHEEL
HSTAT	HUMIDISTAT
HTM	HUMIDIFIER TERMINAL
HUM	HUMIDIFIER UNIT MOUNTED
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWC	HOT WATER COIL
HWHC	HOT WATER HEATING COIL
HWP	HEATING HOT WATER PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HWUH	HOT WATER UNIT HEATER
HVD	HOISTWAY VENT DAMPER
HX	HEAT EXCHANGER
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IBT	INVERTED BUCKET TRAP
ICF	IN-LINE CENTRIFUGAL FAN
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTERGRATED PART LOAD VALUE
IRH	INTRARED HEATER
IS	INSECT SCREEN
IU	INDUCTION UNIT
IV	INLET VANES
KG	KILOGRAM
KG/HR	KILOGRAM PER HOUR
kPa	KILOPASCAL
KW	KILOWATT
KWH	KILOWATT HOUR
L	LITER
L/h	LITERS PER HOUR (or LITERS/HOUR)
L/m	LITERS PER MINUTE (or LITERS/MINUTE)
L/s	LITERS PER SECOND (or LITERS/SECOND)
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LGT	LEAVING GLYCOL TEMPERATURE
LH	LATENT HEAT
LPG	LIQUEFIED PETROLEUM GAS
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPRC	LOW PRESSURE STEAM RETURN (CLEAN)
LLHX	LIQUID TO LIQUID HEAT EXCHANGER
LPS	LOW PRESSURE STEAM
LPSC	LOW PRESSURE STEAM (CLEAN)
LSD	LINEAR SLOT DIFFUSER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M	METER, SI UNIT
M/S	METERS PER SECOND (OR METERS/SECOND)
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MIXING BOX
MBH	1,000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MH	MANHOLE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOV	MOTOR OPERATED VALVE
MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS	MEDIUM PRESSURE STEAM
MRI	MAGNETIC RESONANCE IMAGING
MTD	MEAN TEMPERATURE DIFFERENCE
MVD	MANUAL VOLUME DAMPER
MZ	MULTI-ZONE
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NGFM	NATURAL GAS FLOWMETER
Nm	NEWTON METER
NO	NORMALLY OPEN
NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM	NOMINAL
N.P.E.	NEGATIVE PRESSURE ENCLOSURE
NPLV	NON-STANDARD PART LOAD VALUE
NPSHNET	POSITIVE SUCTION HEAD
NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTDOOR AIR DAMPER
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OFM	OIL FLOWMETER
OR	OPERATING ROOM
P	PUMP
Pa	PASCAL
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PEF	PROPELLER (TYPE) EXHAUST FAN
PF	PRE-FILTER
PG	PRESSURE GAGE
PGW	PROPYLENE GLYCOL-WATER (SOLUTION)
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PRS	PRESSURE REGULATING (VALVE) STATION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAGE
PSS	PRIMARY SECONDARY SYSTEM
PSV	PRESSURE SAFETY VALVE
PTM	PIPE TRAVERSE MEASUREMENT
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R/E	RETURN OR EXHAUST
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAF	RADIO FREQUENCY
RAHX	ROTARY AIR HEAT EXCHANGER
RAT	RETURN AIR TEMPERATURE
RCCH	REMOTE CONDENSER CHILLER
RCU	RECIPROCATING CHILLER UNIT
RD	RETURN DIFFUSER
RDS	ROOM DATA SHEETS
REA	RELIEF AIR
RELAD	RELIEF AIR DAMPER
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCFM	STANDARD CUBIC FEET PER MINUTE
SCI	SPINAL CODE INJURY
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SD	SUPPLY AIR DIFFUSER
SD-1	SCHEMATIC DESIGN (SUBMISSION1)
SD-2	SCHEMATIC DESIGN (SUBMISSION2)
SDPR	SMOKE DAMPER
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SH	STEAM HUMIDIFIER
SHC	STEAM HEATING COIL
SI	SQUARE INCHES
SP	STATIC PRESSURE
SP GR	SPECIFIC GRAVITY
SPD	SUPPLY PROCESS AND DISTRIBUTION
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
SSHX	STEAM TO STEAM HEAT EXCHANGER
SSR	SOLID SEPARATOR
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
SV	STEAM PRESSURE REDUCING VALVE
SVS	STEAM VENT SILENCER
SW	SOFTWATER
SWHX	STEAM TO WATER HEAT EXCHANGER
T&PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TG	TRANSFER GRILLE
TP	TRAP
TR	TOP REGISTER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TWU	THRU-WALL UNIT
UC	UNDER CUT
UC	UNIT COOLER
UH	UNIT HEATER
U	UNDERWRITERS LABORATORY
URV	UPBLAST UNIT VENTILATOR
V	VALVE
VAF	VANE-AXIAL FAN
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VHA	VETERANS HEALTH ADMINISTRATION
VI	VIBRATION ISOLATOR
VP	VACUUM PUMP
VPS	VARIABLE PRIMARY SYSTEM
VR	VACUUM (STEAM CONDENSATE) RETURN
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
WAG	WASTE ANETHESIA GAS
Wb	WET-BULB (TEMPERATURE)
WC	WATER COOLED
WCCH	WATER COOLED CHILLER
WCCU	WATER COOLED CONDENSING UNIT
WCHP	WATER COOLED HEAT PUMPS
WCPU	WATER COOLED PACKAGED UNIT
WEF	WALL EXHAUST FAN
WF	WATER FILTER
WFCV	WATER FLOW CONTROL VALVE
WFM	WATER FLOWMETER
WFMD	WATER FLOW MEASURING DEVICE
WG	WATER GAGE
WPD	WATER SIDE PRESSURE DROP
YR	YEAR

NOTE: NOT ALL ABBREVIATIONS USED

Revisions:	Date:

CONSULTANT

KEAST & HOOD STRUCTURAL ENGINEERS

ONEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD

THE PETTIT GROUP, LLC
Engineering • Architecture • Planning

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER No. PE045114E

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL NOTES & ABBREVIATIONS

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

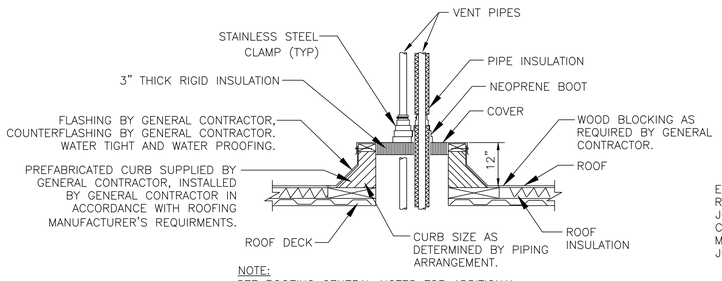
Building Number: N/A

Location: COATESVILLE VAMC

Drawing Number: M-002

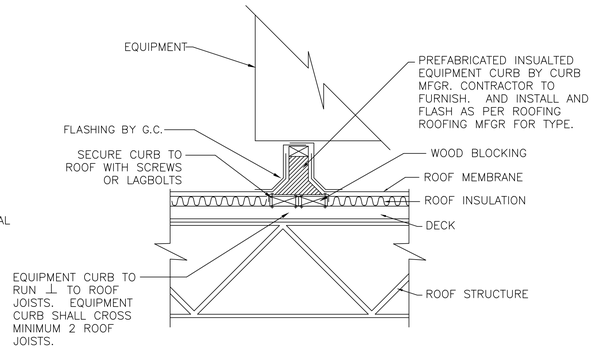
Issue Date	Checked	Drawn
05/01/25	DT / TH	E.G.W.

VA FORM 08 - 6231



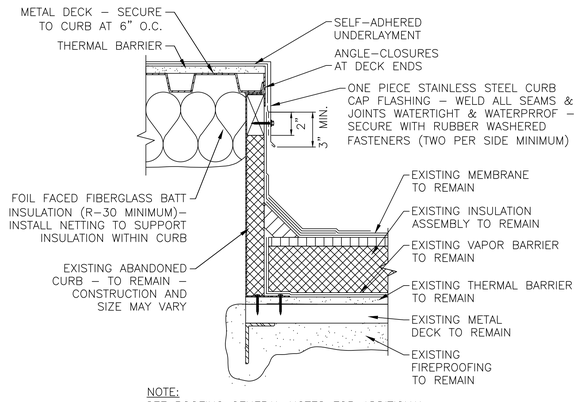
NOTE:
SEE ROOFING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

1 / M-500 PIPE CURB DETAIL
SCALE: NOT TO SCALE



NOTES:
1. COORDINATE WITH STRUCTURAL DETAILS, SEE STRUCTURAL PLAN S-300.
2. SEE ROOFING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 / M-500 EQUIPMENT CURB DETAIL
SCALE: NOT TO SCALE



NOTE:
SEE ROOFING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

3 / M-500 CURB CAP DETAIL
SCALE: NOT TO SCALE

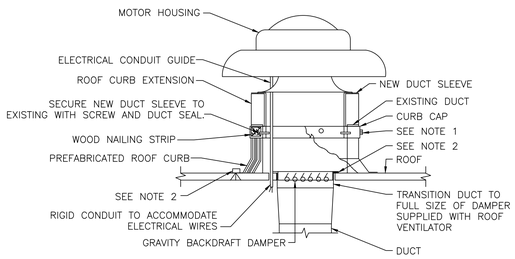
GENERAL ROOFING NOTES

I. PRIOR TO SUBMITTAL OF BIDS, THE BIDDING GENERAL CONTRACTOR (GC) AND THEIR ROOFING SUBCONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH EXISTING ROOFING SYSTEMS INSTALLED AT EACH OF THE AREAS WHERE EXISTING CURBS ARE TO BE REMOVED AND NEW CURBS WILL BE INSTALLED, INCLUDING DETERMINATION OF ROOFING SYSTEM MANUFACTURER, ROOFING WARRANTIES CURRENTLY IN EFFECT, EXISTING ROOFING SYSTEMS APPROVED DETAILS AND PROCEDURES FOR TYING INTO EXISTING ROOFING. ASSISTANCE IS TO BE PROVIDED BY THE VA'S CONTRACTING OFFICER REPRESENTATIVE (COR) FOR OBTAINING DOCUMENTATION RELATED TO EXISTING ROOF SYSTEMS, DATES OF INSTALLATION, APPLICABLE WARRANTIES, ETC.

II. GENERAL CONTRACTOR (GC) SHALL DELEGATE DESIGN RESPONSIBILITY TO THEIR ROOFING SUBCONTRACTOR DURING CONSTRUCTION FOR DEVELOPMENT OF DETAILS TO BE SUBMITTED FOR REVIEW AND APPROVAL FOR PATCHING OF ROOFING RELATED TO REMOVAL OF EXISTING CURBS, TIE-IN OF NEW ROOF CURBS TO EXISTING ROOF SYSTEMS, AND OTHER ROOFING PENETRATIONS OR CONDITIONS WHICH WILL BE AFFECTED BY THE WORK.

III. DETAILS TO BE PROVIDED AS PART OF THE SUBMITTAL PROCESS SHALL INCLUDE CURBS AND RELATED ITEMS, PENETRATIONS THROUGH ROOFING AND OTHER CONDITIONS THAT WILL DISTURB THE EXISTING ROOFING SYSTEM.

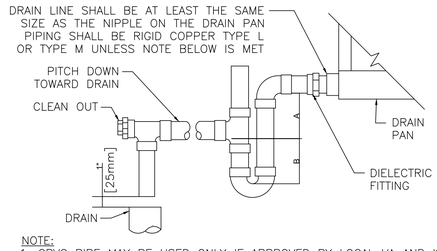
IV. DETAILS PROVIDED FOR SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE EXISTING ROOFING MANUFACTURER PRIOR TO SUBMITTAL BY THE GENERAL CONTRACTOR TO THE PROJECT COR. DETAILS SHALL BE APPROVED BY THE EXISTING ROOFING MANUFACTURER FOR MAINTAINING EXISTING WARRANTIES AND PROVIDE FOR A COMPLETE WEATHER TIGHT INSTALLATION.



NOTE:

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF). SEAM CURB ALL AROUND THE CURB WATER TIGHT & WATERPROOF.
3. RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.
4. SEE ROOFING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

4 / M-500 ROOF EXHAUST FAN DETAIL
SCALE: NOT TO SCALE

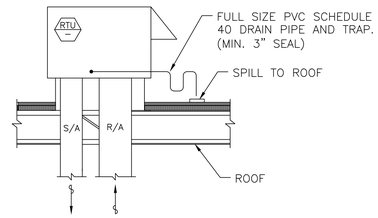


NOTE:
1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

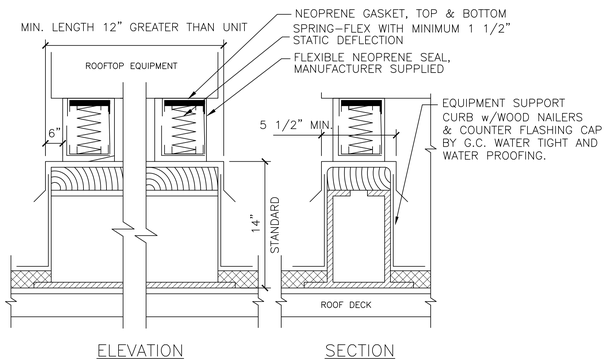
5 / M-500 AC UNIT CONDENSATE DRAIN DETAIL
SCALE: NOT TO SCALE



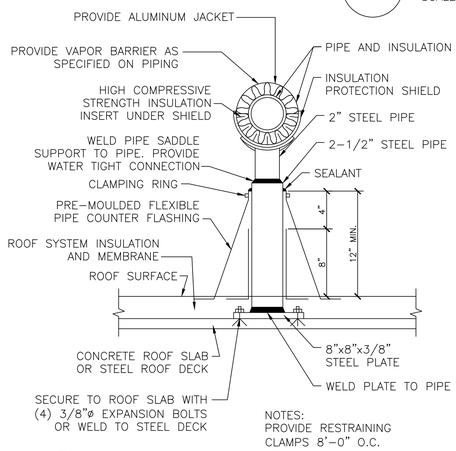
NOTES:

1. THIS DETAIL IS DIAGRAMMATIC ONLY. EXACT UNIT CONFIGURATION(S) MAY VARY.
2. CONTRACTOR SHALL COORDINATE ALL PIPING REQUIREMENTS FOR THE A/C UNITS

6 / M-500 ROOFTOP UNIT DUCTWORK DETAIL
SCALE: NOT TO SCALE



7 / M-500 TYPICAL EQUIPMENT SUPPORT CURB DETAIL
SCALE: NOT TO SCALE



NOTES:
PROVIDE RESTRAINING CLAMPS 8'-0" O.C.

8 / M-500 ROOF PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

Revisions:	Date:

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

Drawing Title	MECHANICAL DETAILS
Phase	FOR BID SUBMISSION
Project Title	AE REPLACE ROOF BUILDINGS 69 &139
Project Number	542-23-201
Building Number	N/A
Location	COATESVILLE VAMC
Issue Date	05/01/25
Checked	DT / TH
Drawn	E.G.W.
Drawing Number	M-500

VA FORM 08 - 6231

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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VA U.S. Department of Veterans Affairs

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.

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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

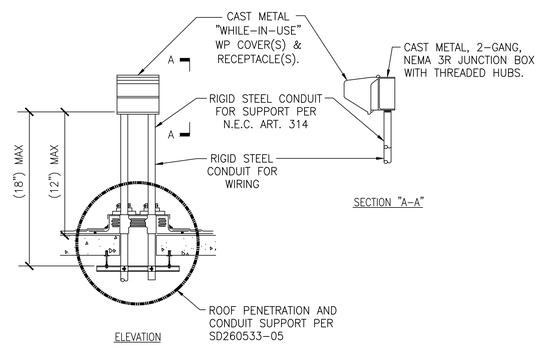
Building Number: 139

Location: COATESVILLE VAMC

Drawing Number: E-102

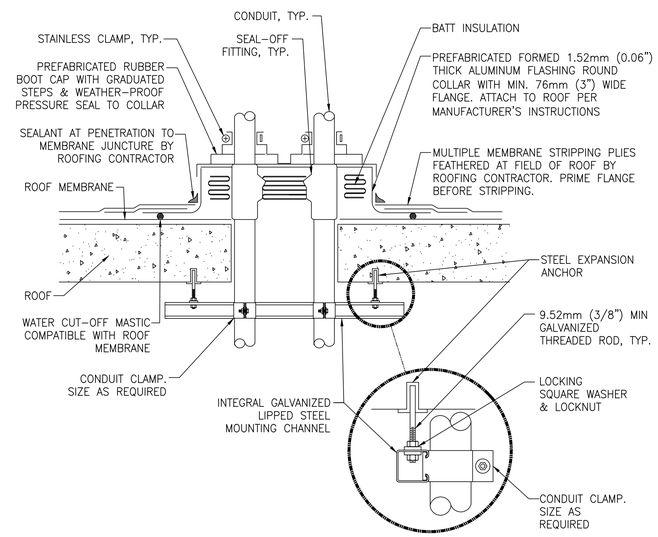
Issue Date: 05/01/25 | Checked: DT / TH | Drawn: V.A.C.

VA FORM 08 - 6231



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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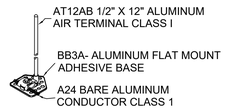

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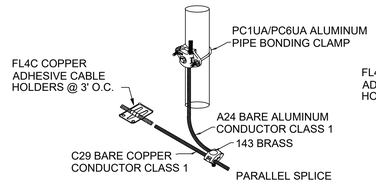

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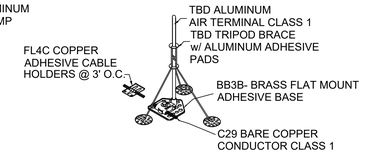

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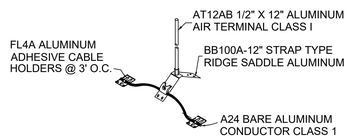

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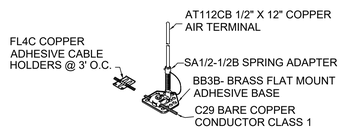

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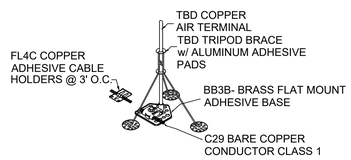

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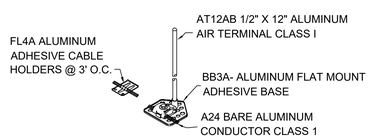

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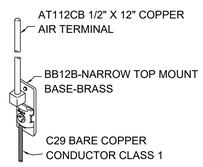

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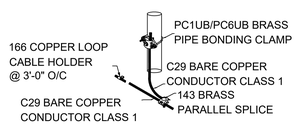

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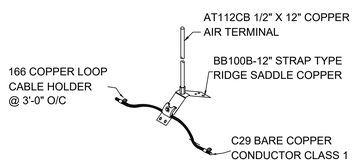

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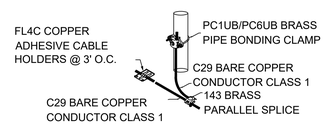
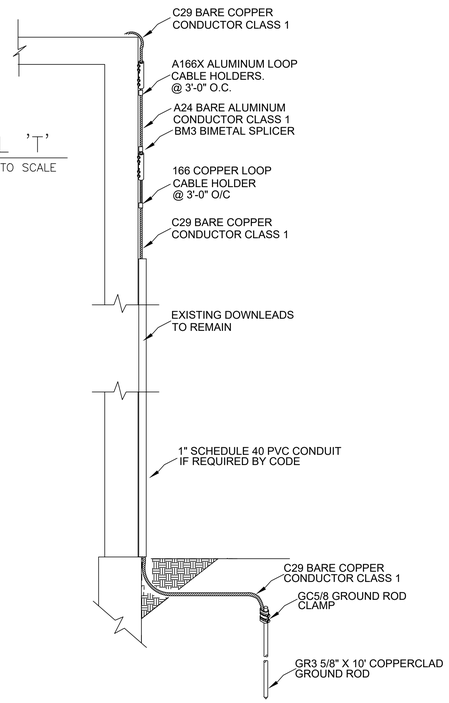


12 E-501 DETAIL 'M'
SCALE: NOT TO SCALE

13 E-501 DETAIL 'T'
SCALE: NOT TO SCALE



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

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 &139

Project Number: 542-23-201

Building Number: N/A

Location: COATESVILLE VAMC

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

Drawing Number: E-501

VA FORM 08 - 6231

SYMBOLS

- 6" SOD — ONE-WAY SLAB OR DECK SPAN DIRECTION. SEE PLAN NOTES OR SCHEDULE
- 0'-0" — SPOT ELEVATION, SEE PLAN NOTES
- (_'-__") — T/STEEL ELEVATION SEE PLAN NOTES
- SLAB STEP
- DIMENSION. DOT SNAPS TO CL OR GRIDS. TICK SNAPS TO EDGE OR FACE OF OBJECT.
- (E) GRID LINE

COMPONENT & CLADDING WIND PRESSURES (PSF)

SURFACE	ZONE	EFFECTIVE AREA (SF)				
		10	20	50	100	500
FLAT ROOF	NEGATIVE ZONE 1	-45	-42	-38	-36	-29
	NEGATIVE ZONE 1'	-26	-26	-26	-26	-18
	NEGATIVE ZONE 2	-60	-56	-51	-47	-38
	NEGATIVE ZONE 3	-60	-56	-51	-47	-38
	POSITIVE ZONE 1 & 1'	+16	+16	+16	+16	+16
	POSITIVE ZONE 2 & 3	+26	+25	+24	+22	+20
	OVERHANG ZONE 1 & 1'	-41	-40	-39	-39	-24
	OVERHANG ZONE 2	-55	-50	-44	-39	-27
	OVERHANG ZONE 3	-55	-50	-44	-39	-27
HIP ROOF	NEGATIVE ZONE 1	-39	-34	-28	-23	-23
	NEGATIVE ZONE 2	-52	-44	-35	-28	-28
	NEGATIVE ZONE 3	-54	-47	-36	-29	-29
	POSITIVE ALL ZONES	+21	+19	+16	+16	+16
	OVERHANG ZONE 3 @ ZONE 4	-76	-67	-55	-46	-46
	OVERHANG ZONE 3 @ ZONE 5	-83	-73	-60	-49	-49

NOTES:
1. ZONE DESIGNATIONS PER ASCE 7.
2. ALL PRESSURES SHOWN ARE CALCULATED USING THE ENVELOPE METHOD (PART 1) IN ASCE 7.
3. ALL PRESSURES SHOWN ARE IN PSF AND ARE ULTIMATE LEVEL IN ACCORDANCE WITH ASCE 7.
4. POSITIVE PRESSURE ACTS TOWARDS BLDG SURFACE, NEGATIVE PRESSURE ACTS AWAY FROM BLDG SURFACE (SUCTION).
5. INTERPOLATION OF VALUES BETWEEN EFFECTIVE AREAS PERMITTED.
6. MINIMUM DESIGN WIND PRESSURE IS 16 PSF ACTING IN EITHER DIRECTION NORMAL TO SURFACE IN ACCORDANCE WITH ASCE 7.
7. WALL PRESSURES ARE FOR PRESSURE AT MEAN ROOF HEIGHT h UNLESS NOTED OTHERWISE.
8. THE EFFECTIVE AREA SHALL BE TAKEN AS THE TRIBUTARY AREA (SPAN LENGTH x EFFECTIVE WIDTH), EXCEPT THAT THE EFFECTIVE WIDTH NEED NOT BE LESS THAN 1/3 THE SPAN LENGTH.

STRUCTURAL DESIGN LOADS AND FACTORS

DESIGN CODE: INTERNATIONAL BUILDING CODE 2024 ED
ASCE 7-22

DEAD & LIVE LOAD DATA - ROOF			RAIN & SNOW LOAD DATA		WIND LOAD DATA	
EXISTING ROOF AREA	SDL[1] [psf]	LL [psf]	GROUND SNOW LOAD (Pg) [psf]	65	RISK CATEGORY	IV
BUILDING 139	15	20	FLAT ROOF SNOW LOAD (Pf) [psf]	46	WIND EXPOSURE	B
BUILDING 69		20	SNOW EXPOSURE (Ce)	1.0	ULTIMATE WIND SPEED (Vult) (MPH)	127
ROOF AREA	SDL [psf]	LL [psf]	THERMAL FACTOR (Ct)	1.0	NOMINAL WIND SPEED (Vasd) (MPH)	99
BUILDING 139 - SKYLIGHT INFILLS	30	20	SLOPE FACTOR (Cs)	1.0	INTERNAL PRESSURE COEFFICIENT	±0.18
			DRIFT SURCHARGE (Pd) [psf]	NA		
			DRIFT WIDTH (w) [ft]	NA	COMPONENTS AND CLADDING WIND PRESSURE [psf]	SEE SCHED
			1-HR RAIN INTENSITY (i) [in/hr]	3.27		
			15-MIN RAIN INTENSITY (i) [in/hr]	5.24		

1. SDL INDICATES ADDITIONAL DEAD LOAD DESIGN CAPACITY DUE TO REMOVAL OF ROOF BALLAST DURING A PREVIOUS PROJECT.
2. LATERAL ANALYSIS OF THE EXISTING BUILDING NOT REQUIRED IN ACCORDANCE WITH THE IEBC.

POST-INSTALLED ANCHORS

BASE MATERIAL	ANCHOR TYPE	BASIS OF DESIGN	ACCEPTABLE ALTERNATES	
		HILTI	DEWALT	SIMPSON STRONG TIE
GROUT FILLED CMU	EXPANSION (WEDGE) ANCHOR	KWIK BOLT TZ2	POWER-STUD+SD1	STRONG-BOLT 2
	POWDER-ACTUATED FASTENER (PAF)	X-U FASTENER	CSI SPIRAL DRIVE PIN	PDPAWL

NOTES:
1. REFER TO "POST-INSTALLED ANCHORS" NOTES ON GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. ALL ANCHORS SHALL BE CARBON STEEL, ZINC-PLATED UNO.
3. ALL HOLES SHALL BE DRILLED USING THE HILTI SAFESET, DEWALT DUST X+ , OR SIMPSON STRONG TIE DXS SYSTEM WITH HOLLOW DRILL BIT AND VACUUM DUST EXTRACTION.

STANDARD ABBREVIATIONS

ABV	Above	DIAG	Diagonal	JT	Joint	RD	Roof Drain
ADDL	Additional	DIM(S).	Dimension(s)	k	Kip (thousand pounds)	RDK	Roof Deck
ADH	Adhesive	DIR	Direction	KB	Knee Brace	REF	Reference
ADJ	Adjacent, Adjustment	DK	Deck	LB, #	Pound	REINF	Reinforce(d)/ Reinforcement
AESS	Architecturally Exposed Structural Steel	DL	Dead Load	LDGR	Ledger (board)	REQ(D)	Require(d)
		DN	Down	LEN	Length	RET	Retaining
AFF	Above Finished Floor	do.	Ditto	LG	Long	REV	Revise(d)/Revision
AGG	Aggregate	DP	Deep	LL	Live Load	RO	Rough Opening
ALT	Alternate	DS	Drilled Shaft, Drag Strut	LLBB	Long Legs Back to Back	RQMT(S)	Requirement(s)
ANCH	Anchor			LLH	Long-Leg Horizontal	RXN	Reaction
APRX	Approximate	DWG(S)	Drawing(s)	LLV	Long-Leg Vertical	SC	Slip-Critical (connection)
AR	Anchor Rod	DWL	Dowel	LOCN	Location	SCHED	Schedule
ARCH	Architect(ural)	(E)	Existing	LONGIT	Longitudinal	SECT	Section
BOT, B	Bottom	EA	Each	LP	Low Point	SEOR	Structural Engineer of Record
B/	Bottom of	EE	Each End	LSH	Long Side Horizontal	SF	Square Foot
B-B	Back-to-Back	EF	Each Face	LSL	Long-Slotted Hole, Laminated Strand Lumber	SFRM	Spray-Applied Fire Resistant Material
BAL	Balance	EJ	Expansion Joint				
BCE	Bot Chord Extension	EL	Elevation	LSV	Long Side Vertical	SHRG	Shoring
BEL	Below	ELEC	Electrical	LVL	Laminated Veneer Lumber	SHTHG	Sheathing
BF	Braced Frame	ELEV	Elevator	LW	Long Way	SIM	Similar
BLDG	Building	EMBED	Embedment/Embedded	LWC	Light Weight Concrete	SL	Slope(d)
BLK(G)	Block(ing)	ENGR	Engineer	M	Moment	SLBB	Short Legs Back to Back
BM	Beam	EOD	Edge Of Deck	MAS	Masonry	SLV	Sleeve
BP	Base Plate	EOS	Edge Of Slab	MATL	Material	SOD	Slab On Deck
BR	Brace(ing)	EQ	Equal	MAX	Maximum	SOG	Slab On Grade
BRDG	Bridging	EQP	Equipment	MECH	Mechanical	SPA	Space(s)/Spacing
BRG	Bearing	ES	Each Side	MFR	Manufacturer	SPEC(S)	Specification(s)
BRK	Brick	EXCAV	Excavate/Excavation	MIN	Minimum	SQ	Square
BRKT	Bracket	EXP	Expansion	MISC	Miscellaneous	SS	Stainless Steel
BS	Both Sides	EXT	Exterior	MO	Masonry Opening	SSL	Short-Slotted Hole
BSMT	Basement	EW	Each Way	MONO	Monolithic	STD	Standard
BT	Bent	F/	Face of	MTL	Metal	STIFF	Stiffener
BTWN	Between	FAB	Fabricate	NIC	Not In Contract	STIR.	Stirrup
BYD	Beyond	FDN	Foundation	NO.	Number	STL	Steel
CANT	Cantilever	FIN.	Finish(ed)	NOM	Nominal	STRUC	Structural
CAP.	Capacity	FL	Floor	NS	Near Side	SUPT	Support
C-C	Center-to-Center	FLG	Flange	NTS	Not To Scale	SW	Short Way
CE	Concrete Encased	FP	Fireproofing	NWC	Normal Weight Concrete	SYM	Symmetrical
CFMF	Cold-Formed Metal Framing	FRMG	Framing	OC	On Centers	T	Top
CHAM	Chamfer	FRP	Fiber-Reinforced Polymer	OD	Outside Diameter	T/	Top of
CI	Cast Iron	FS	Far Side	O.F.	Outside Face	T&B	Top and Bottom
CIP	Cast In Place	FT	Feet	O-O	Out-to-Out	TC	Terra Cotta
CJ	Control/Contraction Joint	FTG	Footing	OPG	Opening	TCE	Top Chord Extension
CL	Centerline	FUT	Future	OPP	Opposite	TEMP	Temporary, Temperature
CLG	Ceiling	GA	Gage	OSB	Oriented Strand Board	T&G	Tongue and Groove
CLR	Clear	GALV	Galvanize(d)	OSL	Outstanding Leg, Oriented Strand Lumber	THD	Thread(ed)
CM	Construction Manager	GC	General Contractor			THK	Thick(ness)
CMU	Concrete Masonry Unit	GR	Grade	OVS	Oversized-Hole	TLS	Tension Lap Splice
COL	Column	GYP	Gypsum	PAF	Powder Actuated Fastener	TRANS	Transverse
COMB.	Combined	HDR	Header	PC	Precast Concrete, Piece	TYP	Typical
COMP	Composite	HEF	Horizontal Each Face	PCF	Pounds per Cubic Foot	UNO	Unless Noted Otherwise
CONC	Concrete	HGR	Hanger	PED	Pedestal	U-P	Underpinning
COND	Condition	HI.	High	PERP	Perpendicular	V	Shear
CONN	Connection	HIF	Horizontal Inside Face	PREFAB	Prefabricate(d)	VAR	Varies
CONST	Construction	HK	Hook(ed)	PL	Plate	VB	Vapor Barrier
CONT	Continuous	HOF	Horizontal Outside Face	PLF	Pounds per Lineal Foot	VEF	Vertical Each Face
CONTR	Contractor	HORIZ	Horizontal	PLYWD	Plywood	VERT	Vertical
COORD	Coordinate	HP	High Point	PMF	Premolded Filler	VIF	Vertical Inside Face, Verify In Field
COV	Cover	HT	Height	PROJ	Project(ion)		
CP	Cap Plate	H&V	Horizontal & Vertical	PROV	Provide	VOF	Vertical Outside Face
CSK	Countersunk	HVAC	Heating, Ventilating, & Air Conditioning	PSF	Pounds per Square Foot	VR	Vapor Retarder
CTR	Center(ed)			PSI	Pounds per Square Inch	w/	With
CY	Cubic Yard	I.D.	Inside Diameter	PSL	Parallel Strand Lumber	w/o	Without
DBL	Double	I.F.	Inside Face	PT	Preservative-Treated, Post-Tensioned	WD	Wood
DEMO, (D)	Demolition/Demolish	INFO	Information			WI	Wrought Iron
DEPR	Depress(ed)/Depression	INSTL	Install/Installation	PVC	Polyvinyl Chloride	WP	Work Point, Waterproofing
DET(S)	Detail(s)	INSUL	Insulation	QTY	Quantity	WT	Weight
DEV	Develop/Development	INT	Interior	R	Radius	WWF	Welded Wire Fabric
DIA, ∅	Diameter	JST(S)	Joist(s)	RCMU	Reinforced Concrete Masonry Unit	XS	Extra Strong
						XXS	Double Extra Strong
						±	Exist Dim or El (VIF)

STRUCTURAL DRAWINGS LIST

SHEET NUMBER	DRAWING TITLE	01/15/2025 - 50% CONSTRUCTION DOCUMENTS SUBMISSION	02/28/2025 - 95% CONSTRUCTION DOCUMENTS SUBMISSION	04/01/2025 - 100% CONSTRUCTION DOCUMENTS SUBMISSION	05/01/2025 - FOR BID SUBMISSION
S-001	GENERAL NOTES - STRUCTURE	X	X	X	X
S-104	ROOF PLAN & SECTIONS - BUILDING 139	X	X	X	X
S-105	ROOF PLANS & SECTIONS - BUILDING 69	X	X	X	X
S-300	TYPICAL DETAILS	X	X	X	X

SHEET COUNT: 4

GENERAL

1. These notes highlight but do not replace the specifications contained in the Project Manual.
2. The applicable building code is 2024 IBC and 2024 IEBC as amended by the Pennsylvania Uniform Construction Code.
3. Refer to the Design Loads and Factors table, this sheet, for code required loads for the project.
4. Contractor is solely responsible for means and methods and protecting adjacent structures during the course of the work. Do not damage or endanger the structural integrity of the Work or Existing Structure.
5. Contractor shall be responsible for the proper and safe design of shoring systems for trenches and excavations.
6. Notify Structural Engineer of Record (SEOR) in case of discrepancies between drawings, these notes, and Project Manual before proceeding with the work.
7. Use architectural drawings and drawings of other disciplines in conjunction with the structural drawings to properly perform the work.
8. If conditions disclosed during demolition reveal unforeseen conditions, promptly request direction from SEOR before proceeding.
9. Contractor is responsible for coordinating between trades and/or sub-contractors.
10. Do not scale drawings.
11. Field dimensions
    A. If structural drawings are used for laying out column centers and wall lines, all dimensions shall first be verified with the architectural drawings. Layout shall be checked before work is begun.
    B. Verify all dimensions and accurately locate all existing columns, bearing walls, and other structural members before beginning work or preparing shop drawings.
12. Sections and details shown, while drawn for specific locations, are intended to establish the general types of details to be used throughout.
13. The SEOR's review of a submittal shall not relieve the Contractor of their responsibility to follow the intent of the contract drawings.

DELEGATED DESIGN ITEMS

1. Employ or retain a licensed professional engineer in the Commonwealth of Pennsylvania to design and detail the following performance specified structural components:
    A. Shoring / Scaffolding
2. See individual material sections for additional requirements.

EXISTING BUILDING/STRUCTURE NOTES

1. Utmost care shall be exercised at all times when working on existing structural members and masonry bearing walls to avoid impairing the carrying capacity of the existing structure.
    A. Should the SEOR determine that the carrying capacity of the existing structure has been impaired by, or as a result of, the operations of the Contractor, or is otherwise not in conformance with the contract documents, appropriate remedial work shall be required.
    B. Any damage resulting from the operations of the Contractor shall be repaired as directed by the Owner's representative at no additional cost to the Owner.
2. Do not cut or remove any part of the existing structure not indicated to be modified or demolished.
3. Burning or welding in the building is strictly prohibited.
4. Contractor shall infill all abandoned mechanical/electrical/plumbing penetrations in existing masonry walls with new or salvaged masonry, to the satisfaction of the Architect. The masonry sub-contractor shall provide an allowance in their bid/pricing for this work.
5. Definitions:
    A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.
    B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and store.
    C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.
    D. Remove and Replace: Detach items from existing construction and replace in kind.
    E. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

STRUCTURAL STEEL

1. Detail, fabricate, and erect structural steel in accordance with AISC 360 and AISC 303 "Code of Standard Practice".
2. Structural steel design is based on the Load and Resistance Factor Design (LRFD) methodology. All loads shown on drawings are factored loads, unless noted otherwise.
3. The structural steel detailer shall develop all elevations, plans, and sections without reproducing same from the design drawings. Detailer shall adequately cross reference the structural drawings to the satisfaction of the SEOR. All shop drawings shall be submitted for review and review comments incorporated prior to fabrication.
4. Materials shall conform to the following:
    A. W-Shapes, WTs, & Channels 8" or deeper - ASTM A992 (Fy = 50 ksi)
    B. Channels less than 8" deep - ASTM A36 (Fy = 36ksi)
    C. Angles - ASTM A572, Gr 50 (Fy = 50 ksi)
    D. Hollow Structural Sections (HSS) - ASTM A500, Gr C (Fy = 50 ksi)
    E. Plates 4" thickness or less - ASTM A572, Gr 50 (Fy = 50 ksi)
    F. High Strength Bolts – ASTM F3125: Grade A325 or F1852 TC Bolts; Grade A490 or F2280 TC Bolts (as required)
    G. Welding Electrodes - AWS A5.1 E70XX
5. Connections:
    A. Connections shall be standard AISC connections using 3/4" dia. high-strength bearing, type N bolts, unless noted otherwise.
    B. Provide minimum weld sizes in accordance with AISC 360 Specification for Structural Steel Buildings.
    C. Electrodes shall be suited to grade and weldability of base metal.
    D. Use AWS certified welders for structural welding.
6. Field cutting or burning of structural steel is prohibited except where indicated on plans, sections, and details.
7. Steel deck shall be manufactured by a member firm of the Steel Deck Institute (SDI) and shall be detailed, fabricated and erected in accordance with SDI specifications.
    A. Attach steel deck to supporting steel and fasten side laps in accordance with SDI requirements.

POST-INSTALLED ANCHORS

1. Refer to Post Installed Anchor table, this sheet, for anchor products. Substitution requests for alternate products must be approved in writing by the SEOR prior to use.
2. Drill and install post-installed anchors according to manufacturer's printed installation instructions. All holes to be hammer drilled and cleaned per manufacturer's printed installation instructions.
3. Anchor capacity is dependent upon spacing between adjacent anchors and distance of anchors to the edge of base material. Anchors shall be installed in accordance with spacing and edge distance requirements indicated on the drawings.
4. Do not cut or damage existing reinforcement in concrete or CMU during drilling operations without prior approval from the SEOR. Offset anchor locations to clear existing reinforcement should reinforcing bars be encountered during drilling. It is recommended that the existing concrete or CMU be scanned to locate existing reinforcement prior to drilling for anchors.
5. Oversized holes may be provided for field adjustment of the anchors, provided 5/16" thick plate washers are field welded (3/16" all around) to the member. Provide standard holes in plate washers.
6. All post-installed anchors shall meet ICC-ES Compliance for each type of application.
7. Submit product information and ICC-ES Evaluation Report for each anchor.
8. All anchor designs are for installation in the following conditions, unless noted otherwise. Written approval must be received from SEOR prior to installation of adhesive anchors in alternate conditions.
    A. Dry concrete.
    B. Anchor holes to be hammer drilled.
9. All installers of post-installed anchors shall be Hilti and/or ACI/CRSI Adhesive Anchor Installer Certified. Submit certificates for record.
10. Coordinate required holes sizes in steel members with manufacturer's installation requirements and method of installation.

SHORING/SCAFFOLDING

1. The contractor shall submit shoring/scaffolding shop drawings and calculations, prepared and sealed by a professional engineer licensed in the Commonwealth of Pennsylvania, for the following:
    A. Building/structure support shoring.
    B. Scaffolding.
2. Shoring and scaffolding shall comply with O.S.H.A. regulations.
3. The SEOR will review shoring/scaffolding submittals only for loads transmitted to the building structure. Submittals shall clearly indicate the location and magnitude of all loads applied to the building or structure. The contractor is responsible for design and performance of the shoring/scaffold system.

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Revisions:	Date:

CONSULTANT: KEAST & HOOD STRUCTURAL ENGINEERS; NEI Northeast Infrastructure, LLC

ARCHITECT/ENGINEER OF RECORD: THE PETTIT GROUP, LLC — Engineering • Architecture • Planning

STAMP: COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JOHN R. DAVIS No. PE055730
John R. Davis
Penna. Professional Engineer
No. PE055730

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

Drawing Title	Phase	Project Title	Project Number
GENERAL NOTES - STRUCTURE	FOR BID SUBMISSION	AE REPLACE ROOF BUILDINGS 69 & 139	542-23-201
			Building Number: N/A
		Location: COATESVILLE VAMC	Drawing Number: S-001
		Issue Date: 05/01/2025 · Checked: PTF · Drawn: MDS	

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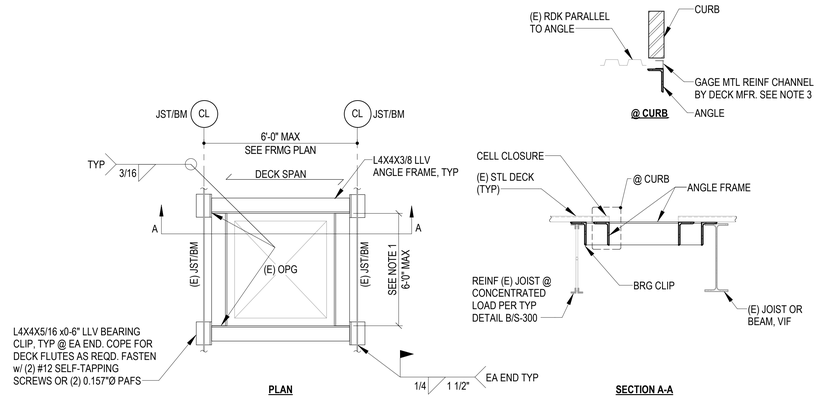
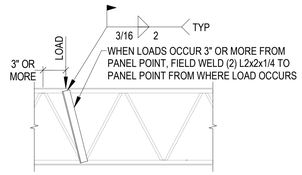


NOTES:

1. COORDINATE SIZE & LOCATION OF OPENINGS WITH EQUIPMENT. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
2. DETAIL APPLIES TO ROOF OPENINGS SUBJECT TO EQUIPMENT LOADS UP TO 1500 POUNDS. SEE PLAN FOR FRAMING AT UNITS GREATER THAN 1500 POUNDS.
3. REINFORCING CHANNEL NOT REQUIRED WHERE DECK SPAN IS PERPENDICULAR TO ANGLE.

A / S-300 DETAIL - TYPICAL OPENING IN ROOF DECK (OVER 2'-0")
NTS



NOTE: DETAIL APPLIES TO CONCENTRATED LOADS GREATER THAN 100#.

B / S-300 DETAIL - TYPICAL JOIST PANEL POINT REINFORCEMENT
NTS

4/29/2025 11:47:14 AM

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TYPICAL DETAILS

Phase: FOR BID SUBMISSION

Project Title: AE REPLACE ROOF BUILDINGS 69 & 139

Location: COATESVILLE VAMC

Issue Date: 05/01/2025

Checked: PTF

Drawn: MDS

Project Number: 542-23-201

Building Number: N/A

Drawing Number: S-300

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