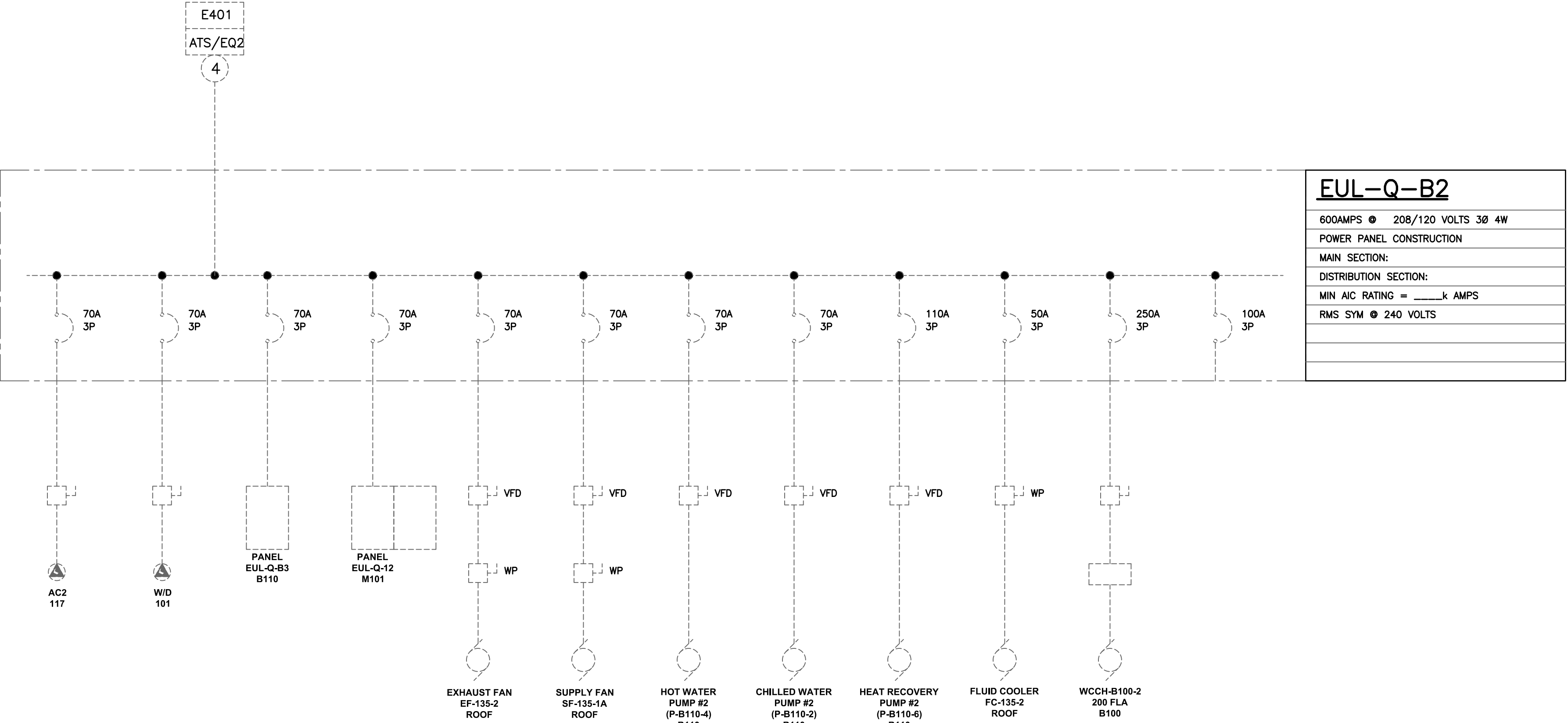
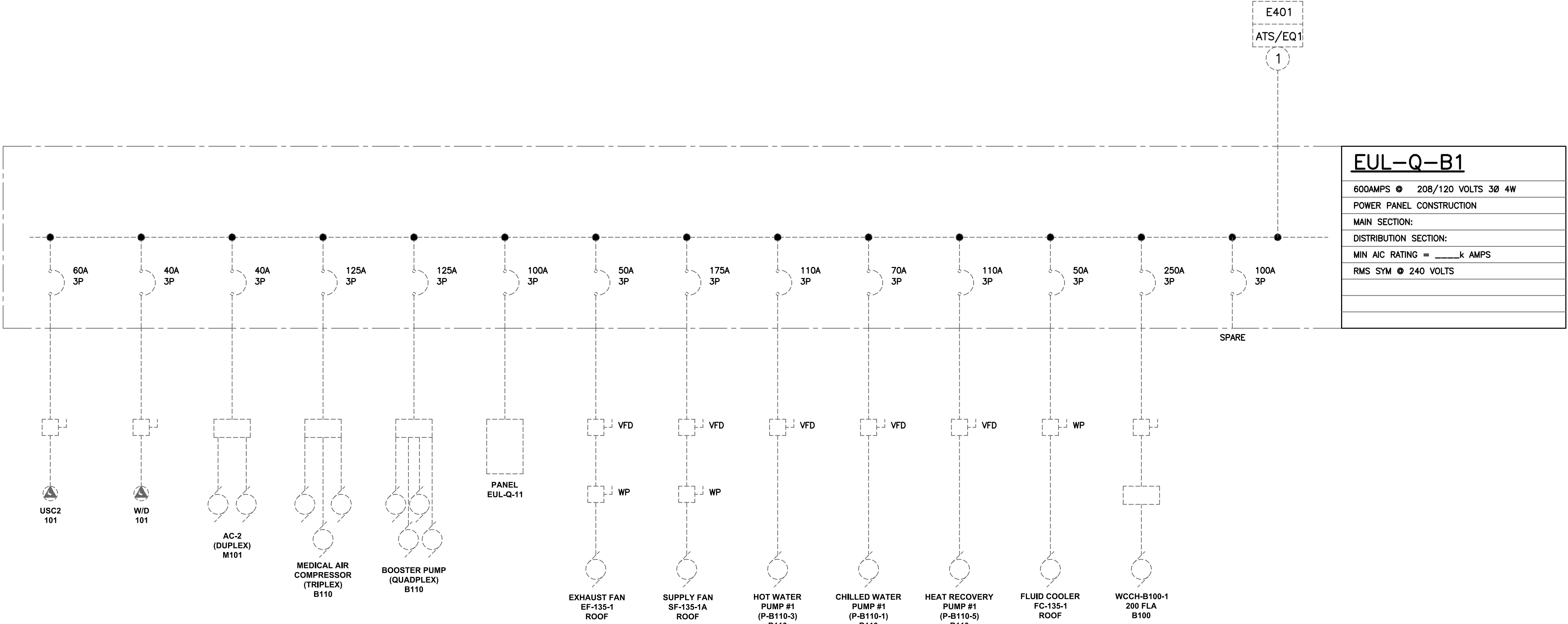


A
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SHEET NOTES —
1. SHEET FOR REFERENCE ONLY.



Revisions:	Date:

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STAMP

Office of
Construction
and Facilities
Management

U.S. Department
of Veterans Affairs

Drawing Title
ONE-LINE DIAGRAM

Approved:
VA MILWAUKEE

Phase
100% BID SET

NON-SPRINKLERED

Project Title
INSTALL EMS BUILDING 102

Location
MILWAUKEE VAMC

Issue Date
JULY 24, 2017

Checked
MJ

Drawn
MJ

Project Number
695-17-108

Building Number
BLDG 102

Drawing Number
ES402

A

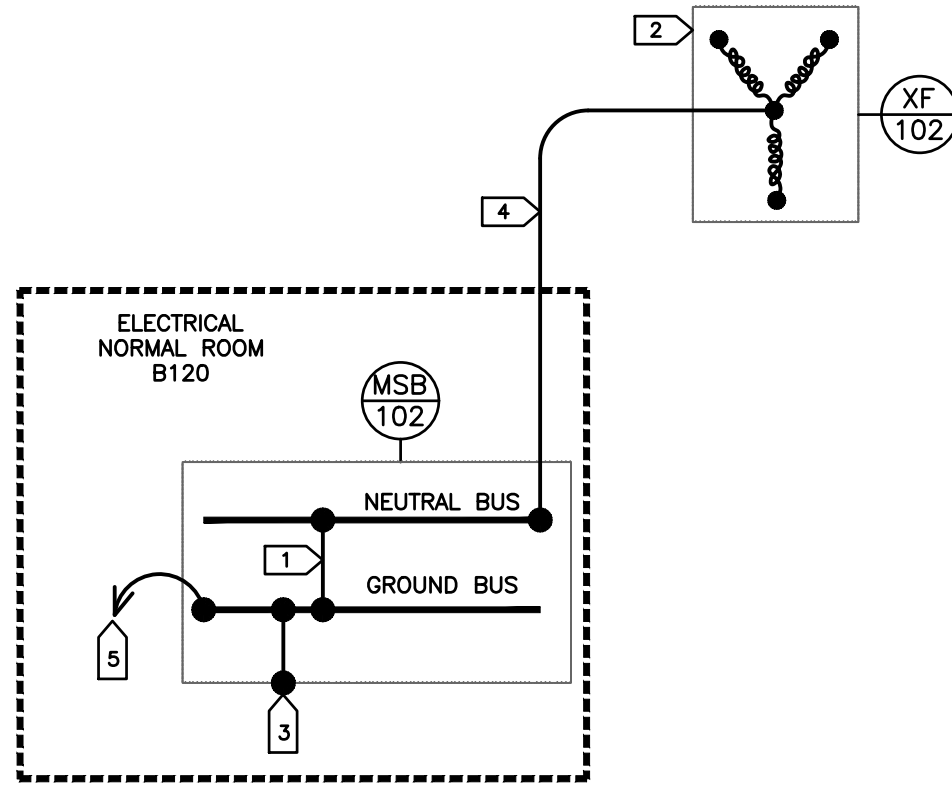
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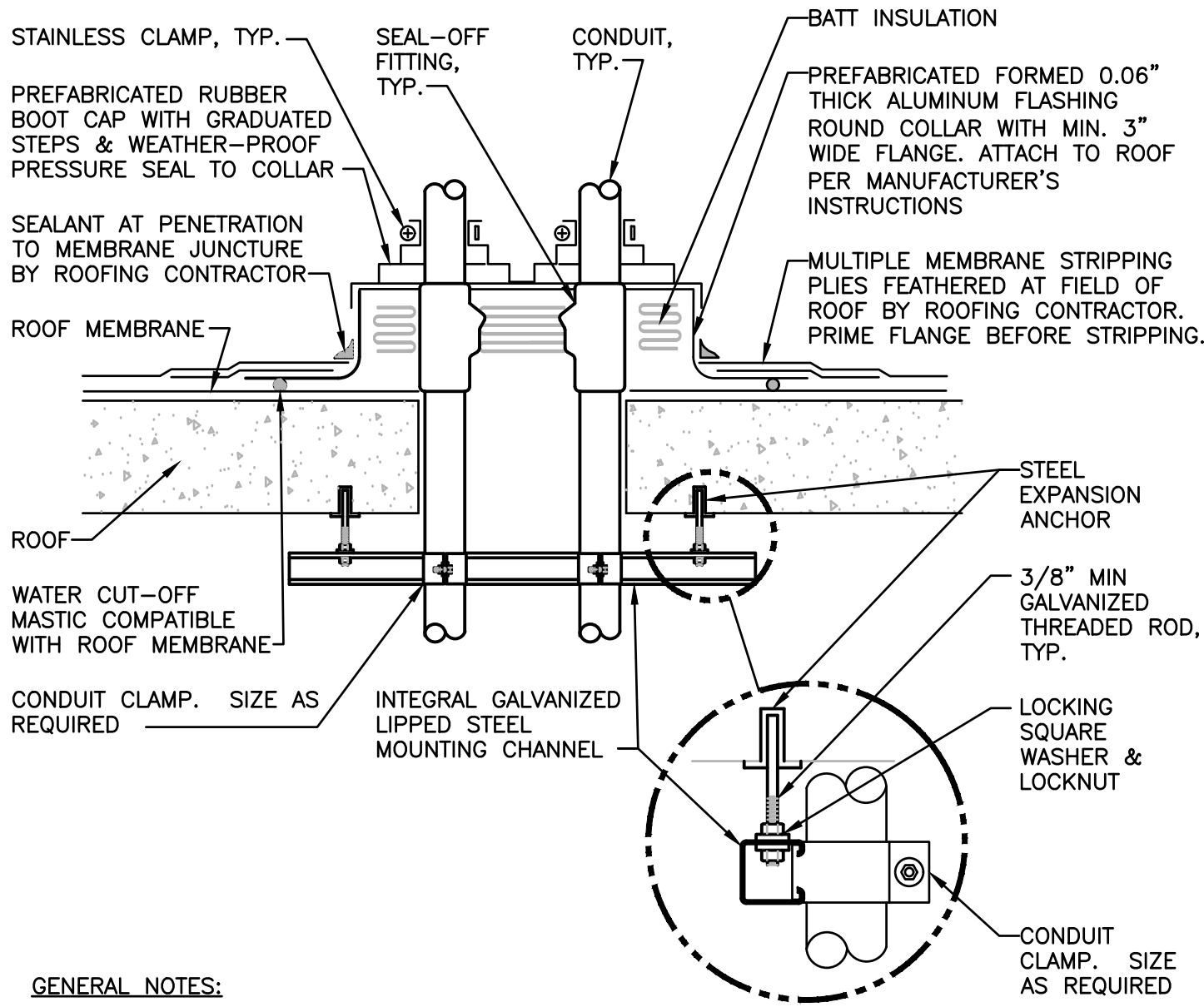
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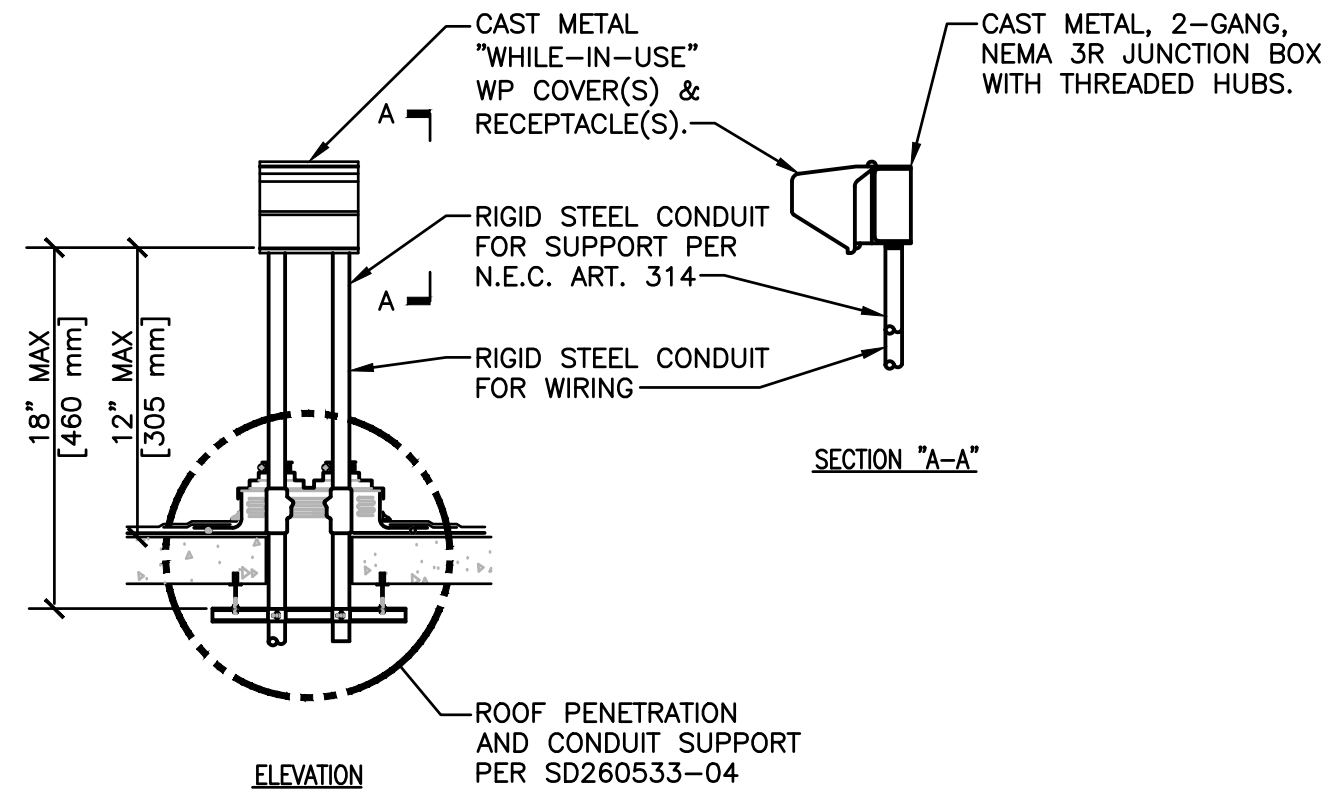
- SHEET NOTES:**
- EE SPECIFICATION SECTION 26 05 26 FOR ADDITIONAL GROUNDING REQUIREMENTS.
 - TERMINATION TO ALL GROUND BUS TYPES SHALL BE VIA MECHANICAL LUGS.
 - ALL GROUNDING WIRES SHALL BE 3/0 THIN INSULATED COPPER GROUND WIRE UNLESS OTHERWISE NOTED.
- KEYED NOTES:**
- MAIN GROUNDING SYSTEM SHALL BE BONDED AT ONE POINT WITHIN MSB/102.
 - NEW BUILDING TRANSFORMER.
 - BOND ENCLOSURE PER NEC ARTICLE 250.
 - REFER TO ONE LINE DIAGRAM FOR WIRE SIZE.
 - EXISTING TIE TO GROUNDING ELECTRODE SYSTEM TO REMAIN.

3 **GROUNDING SYSTEM RISER DIAGRAM**
ES500 NOT TO SCALE

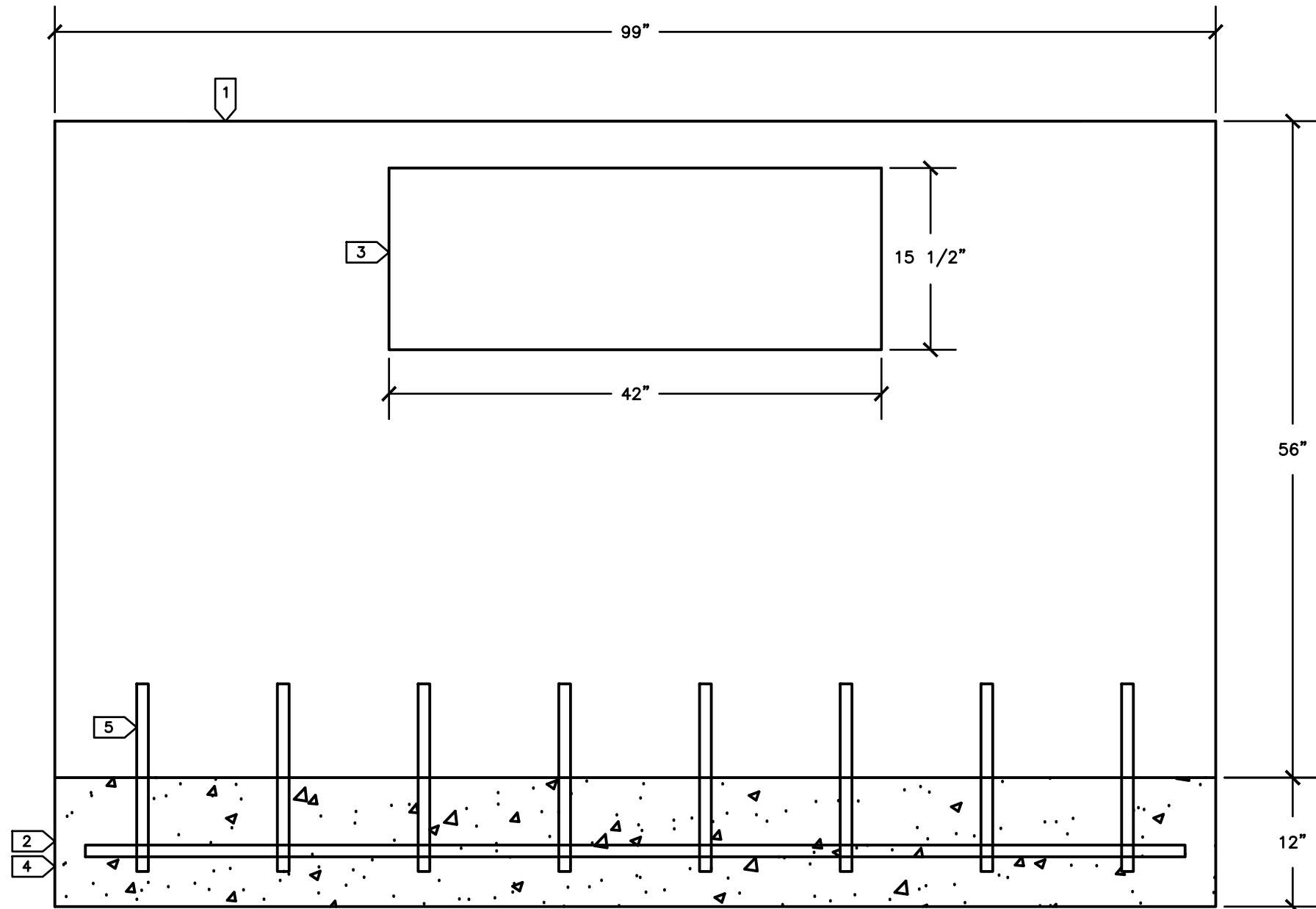


- GENERAL NOTES:**
- MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
 - FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
 - VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
 - COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

2 **CONDUIT ROOF PENETRATION DETAIL**
ES500 NOT TO SCALE



1 **RECEPTACLE ROOF MOUNTING DETAIL**
ES500 NOT TO SCALE



- SHEET NOTES:**
- REFER TO SPECIFICATION SECTION 32 05 23 FOR ADDITIONAL CONCRETE REQUIREMENTS.
 - ADJUST MOUNTING BOLTS AS NEEDED TO ACCOMMODATE NEW TRANSFORMER.
 - ADJUSTMENTS TO PAD ARE BASED ON A NEW EATON TRANSFORMER. PAD ADJUSTMENTS SHALL BE VERIFIED WITH TRANSFORMER MANUFACTURER PRIOR TO WORK BEING PERFORMED.
 - REFER TO SPECIFICATION SECTION 26 12 19 FOR PAD REQUIREMENTS.

- KEYED NOTES:**
- EXISTING CONCRETE PAD TO REMAIN.
 - PAD TO BE EXTENDED TO THE SOUTH THE DIMENSION INDICATED. PAD EXTENSION TO BE 8" DEEP. COORDINATE SPECIFIC LENGTH WITH APPROVED SHOP DRAWINGS.
 - EXISTING CONDUIT ENTRY WINDOW TO REMAIN.
 - PROVIDE #4 REBAR 12" OC EACH WAY WITH 3" CLEAR COVER TO EDGE OF PAD.
 - DRILL REBAR 6" INTO EXISTING PAD AND EPOXY IN PLACE.

4 **TRANSFORMER PAD EXTENSION**
ES500 NOT TO SCALE

		CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title ELECTRICAL DETAILS		Phase 100% BID SET		Project Title INSTALL EMS BUILDING 102		Project Number 695-17-108	
		Consultant: RING & DuCHATEAU LLP 17400 W. CAPITOL DRIVE BROOKFIELD, WI 53045 (414) 778-1700		A/E: PROJECT LEAD Architect, Structural Engineer, Civil Engineer GUIDON DESIGN GUIDON DESIGN INC. 905 N. CAPITOL AVE., SUITE 100 INDIANAPOLIS, IN 46204 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING				VA U.S. Department of Veterans Affairs		Approved: VA MILWAUKEE		NON-SPRINKLERED		Location MILWAUKEE VAMC		Building Number BLDG 102	
Revisions:		Date:										Issue Date JULY 24, 2017		Checked MM		Drawn MJ	
																ES500	

1.1.1.VA FORM 08-6231