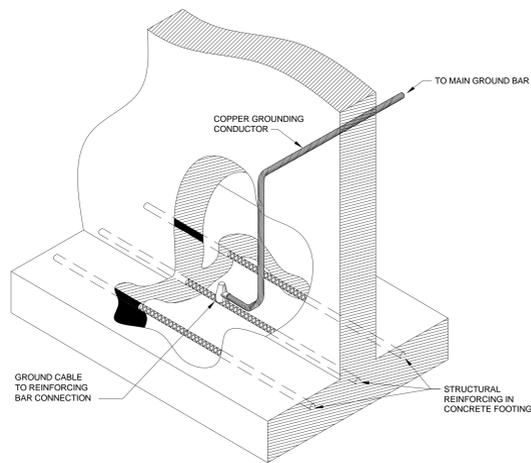
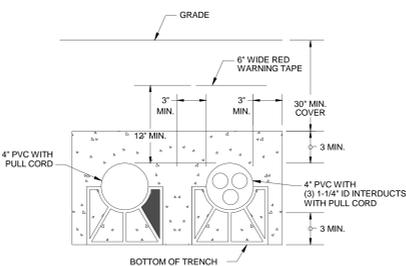


10 GROUND TEST WELL DETAIL
SCALE: NONE



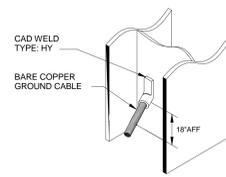
NOTE: REFER TO STRUCTURAL DRAWINGS FOR DESIGNED PROJECT CONDITIONS.

11 GROUND CABLE TO REBAR
SCALE: NONE

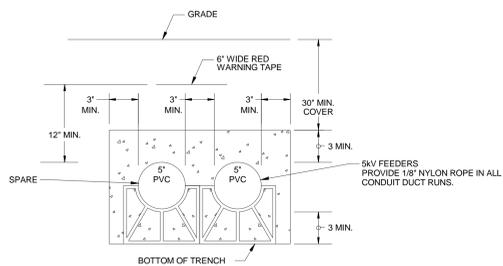


NOTES:
(1) SEE PLANS FOR DUCT BANK LOCATIONS.
(2) DUCT BANKS UNDER ROADWAY TO BE REINFORCED WITH MINIMUM #4 REINFORCING BAR WITH #3 TIES @ 8'-0\"/>

12 TELECOM DUCT BANK DETAIL
SCALE: NONE

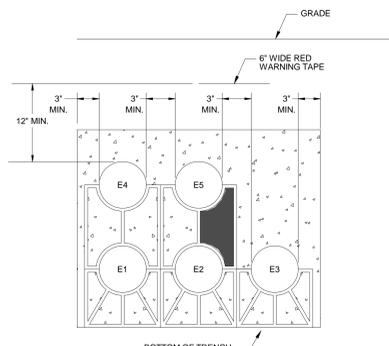


6 BUILDING STEEL TO GROUND CONNECTION
SCALE: NONE



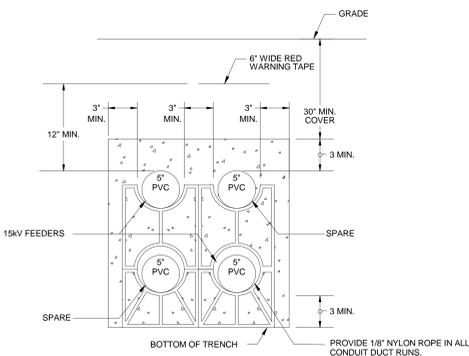
NOTES:
(1) SEE PLANS FOR DUCT BANK LOCATIONS.
(2) DUCT BANKS UNDER ROADWAY TO BE REINFORCED WITH MINIMUM #4 REINFORCING BAR WITH #3 TIES @ 8'-0\"/>

7 13.8 kV M.V. DUCT BANK DETAIL
SCALE: NONE



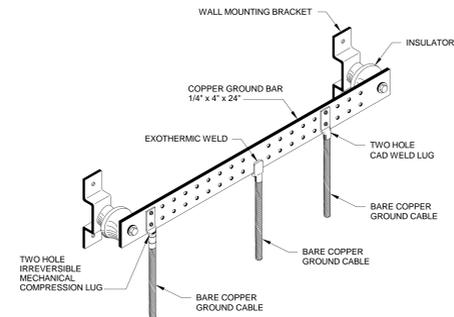
NOTES:
(1) SEE PLANS FOR DUCT BANK LOCATIONS.
(2) NOT USED.
(3) SEE ONE LINE DIAGRAM FOR CONDUIT SIZE.
(4) PROVIDE 1/8\"/>

8 L.V. DUCT BANK DETAIL
SCALE: NONE

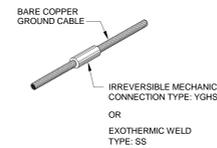


NOTES:
(1) SEE PLANS FOR DUCT BANK LOCATIONS.
(2) DUCT BANKS UNDER ROADWAY TO BE REINFORCED WITH MINIMUM #4 REINFORCING BAR WITH #3 TIES @ 8'-0\"/>

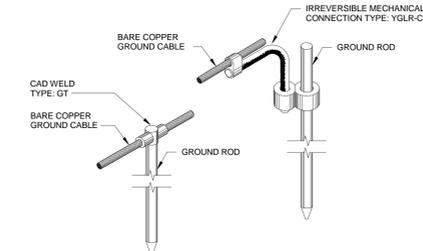
9 13.8kV SITE SERVICE M.V. DUCT BANK DETAIL
SCALE: NONE



1 GROUNDING BAR/CABLE CONNECTION
SCALE: NONE

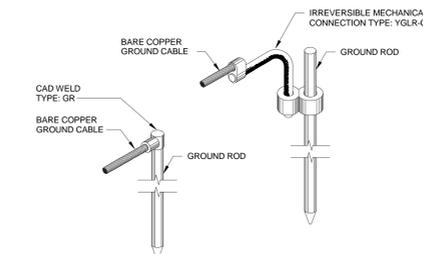


2 GROUNDING CABLE SPLICING CONNECTION
SCALE: NONE



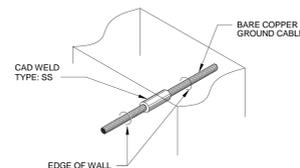
NOTE: TOP OF GROUND ROD AT 24\"/>

3 GROUND ROD 'TEE' CONNECTION
SCALE: NONE



NOTE: TOP OF GROUND ROD AT 24\"/>

4 GROUND CABLE TO GROUND ROD CONNECTION
SCALE: NONE



5 GROUND CABLE TO GROUND ROD CONNECTION
SCALE: NONE

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SEALS AND SIGNATURES



ISSUED FOR CONSTRUCTION 07/03/12

REV. NO. DESCRIPTION BY APVD DATE

Argonne
NATIONAL LABORATORY

FMS
Facilities Management Services

PROJECT TITLE ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY

PROJECT NO 08541-00

DRAWING TITLE

ELECTRICAL DETAILS

DESIGNED DLW	A/E CADD FILE E8.0.1	FACILITY (NOI)
DRAWN DLW	A/E DWG. NO. E8.0.1	
CHECKED BRB	CAD NO.	
PROJECT MANAGER	DWG STATE	
ANL - JESSE ADAMS	BIND ORDER	
DATE - 09/28/11		
FACILITY DOCUMENT NUMBER		
J446-101-W-	E8.0.1	REV. NO.