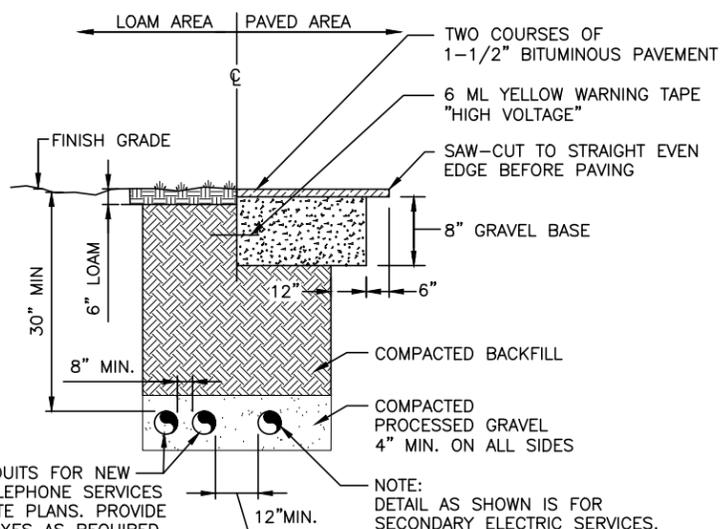


NOTE:
CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF CONDUIT STUB-UP.

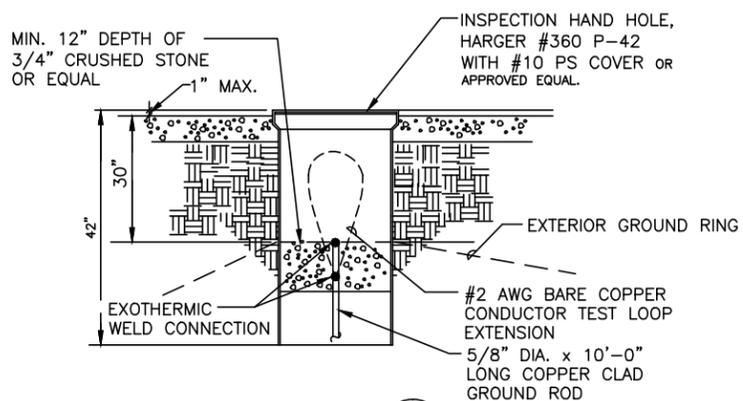
CONDUIT STUB-UP 1
N.T.S. E-3



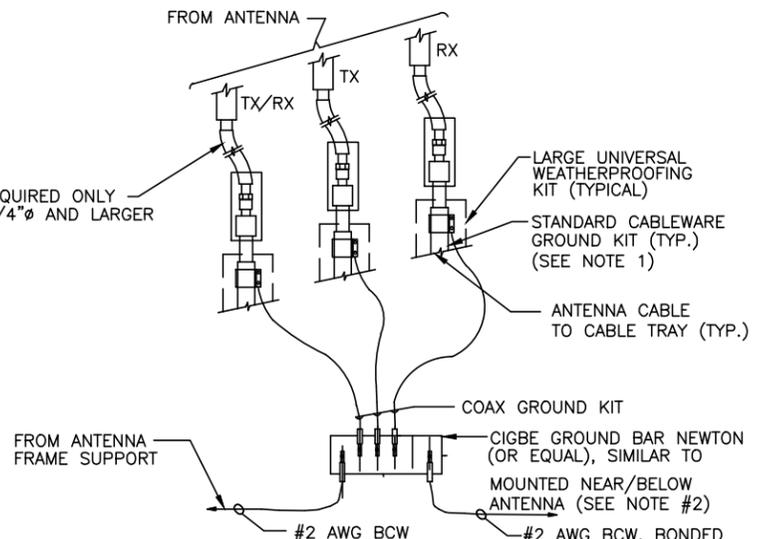
SCHEDULE 40 CONDUITS FOR NEW ELECTRICAL AND TELEPHONE SERVICES SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED, AND COORDINATE INSTALLATION W/ ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.).

NOTE:
DETAIL AS SHOWN IS FOR SECONDARY ELECTRIC SERVICES. PRIMARY HIGH VOLTAGE SERVICE REQUIRES 4" CONCRETE ENCASEMENT.

TYPICAL DIRECT JOIN SERVICE BURIED CONDUIT DETAIL 2
SCALE: N.T.S. E-3

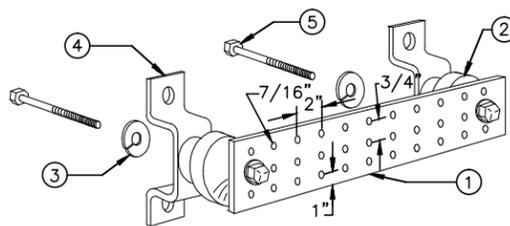


GROUND WELL DETAIL 3
N.T.S. E-3



- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.
 - ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

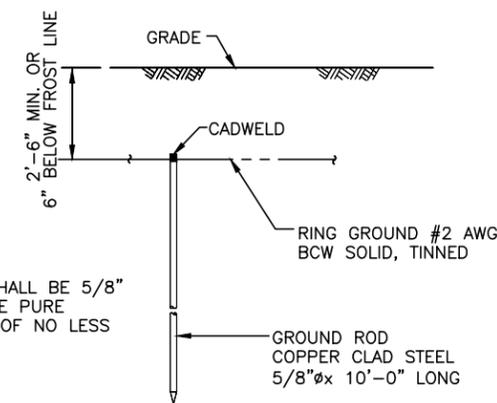
STANDARD DETAIL CONNECTION OF GROUND WIRES TO GROUND BAR (CIGBE) 4
N.T.S. E-3



- LEGEND
- GALVANIZED STEEL GROUND BAR, 1/4" X 4" X 20", OR OTHER LENGTH AS REQUIRED, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
 - 5/8" LOCKWASHERS OR EQUAL
 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
 - 5/8-11 X 1" H.H.C.S. BOLTS

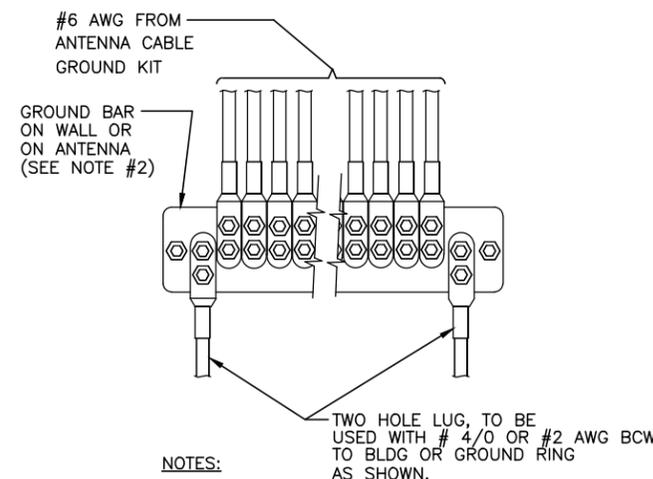
- NOTES:
- ALL BOLTS, NUTS, WASHERS AND LOCK WASHERS SHALL BE 18-8 STAINLESS STEEL.
 - ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

GROUNDING - STANDARD DETAIL GROUND BAR 5
N.T.S. E-3



NOTE:
COPPER RODS SHALL BE 5/8" STEEL, CLAD WIRE PURE COPPER JACKET OF NO LESS THAN 0.0012".

TYPICAL GROUND ROD DETAIL 6
N.T.S. E-3



- NOTES:
- CONTRACTOR TO UTILIZE KOPR-SHIELD (THOMAS & BETTS) ON ALL LUG CONNECTIONS.
 - ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

GROUNDING - STANDARD DETAIL INSTALLATION OF GROUND WIRE GROUND BAR 7
N.T.S. E-3

FOR CONSTRUCTION

PREPARED FOR:
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WESTBOROUGH, MA 01581
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1600 OSGOOD STREET
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Daniel P. Hamm
PROFESSIONAL ENGINEER

CHECKED BY: JX
APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	02/09/16	FOR CONSTRUCTION	MR
0	07/31/15	FOR CONSTRUCTION	HH

SITE NAME:
PORTLAND 3 ME

SITE ADDRESS:
476 SUMMIT STREET
PORTLAND, ME 04103

SHEET TITLE
**ELECTRICAL/
GROUNDING
DETAILS**

SHEET NUMBER
E-3