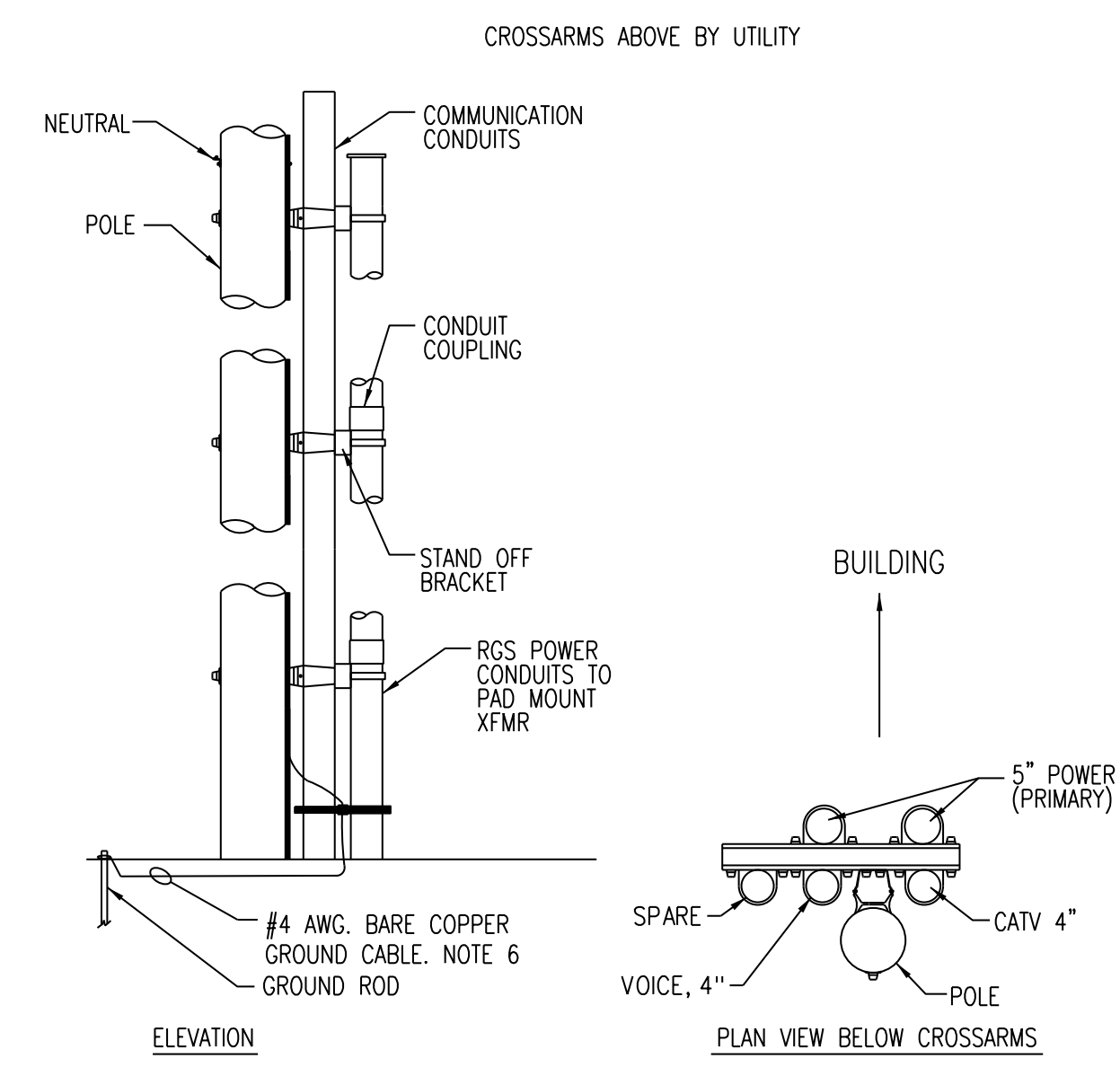


LIGHTING POLE NOTES:  
 1. POLE BASE MAY BE PRECAST.  
 2. PAINT EXPOSED CONCRETE WITH (2) TWO COATS OF BRONZE MASONRY PAINT.  
 3. CONCRETE WITH AIR ENTRAINED AGENT. 4000 P.S.I. AFTER 30 DAYS

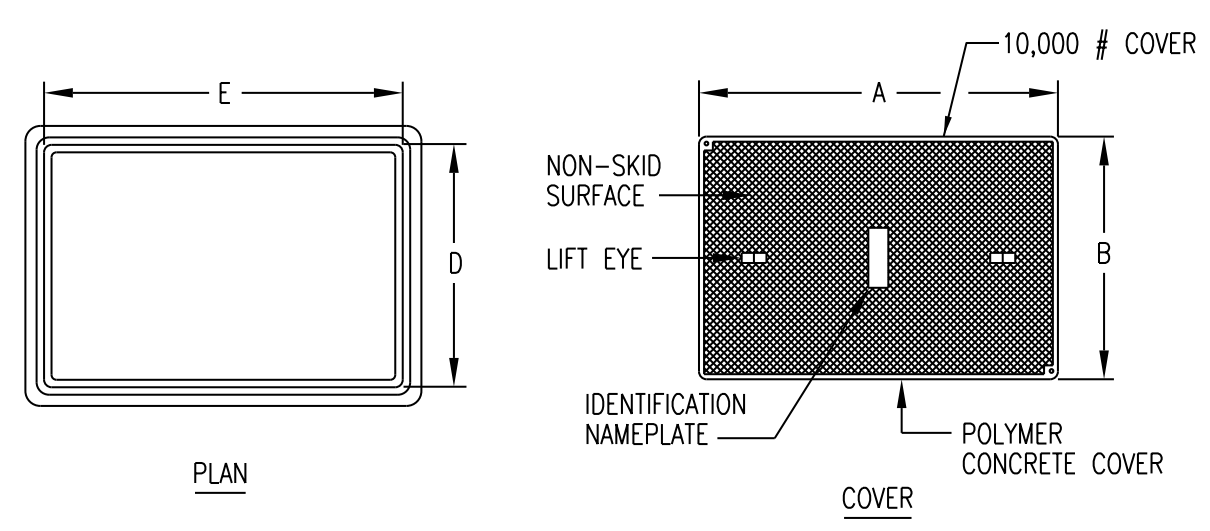
**POLE BASE DETAIL**  
SCALE: NONE



**RISER POLE BRACKET DETAIL**  
SCALE: NONE

NOTES:  
 1. PROVIDE STANDOFF BRACKETS AS INDICATED.  
 2. CONDUIT SHALL BE RGS CONDUIT ONLY.  
 3. TOP CONDUIT SECTIONS LONGER THAN 24" SHALL BE SUPPORTED.  
 4. LOWEST BRACKET SHALL BE MINIMUM OF 8' ABOVE FINISHED GRADE.  
 5. ONE BRACKET SHALL BE USED TO SUPPORT EACH 10' SECTION OF CONDUIT WITH THE BRACKET PLACED JUST BELOW THE RISER CONDUIT COUPLING.  
 6. GROUND RGS RISERS TO GROUND ROD, PIPE CLAMP AND EXTEND #4 AWG. CONDUCTOR UP RISER POLE TO NEUTRAL. BOND GUY WIRE TO SYSTEM NEUTRAL. PROVIDE A YELLOW, PVC U GUARD FOR THE GROUND WIRE.

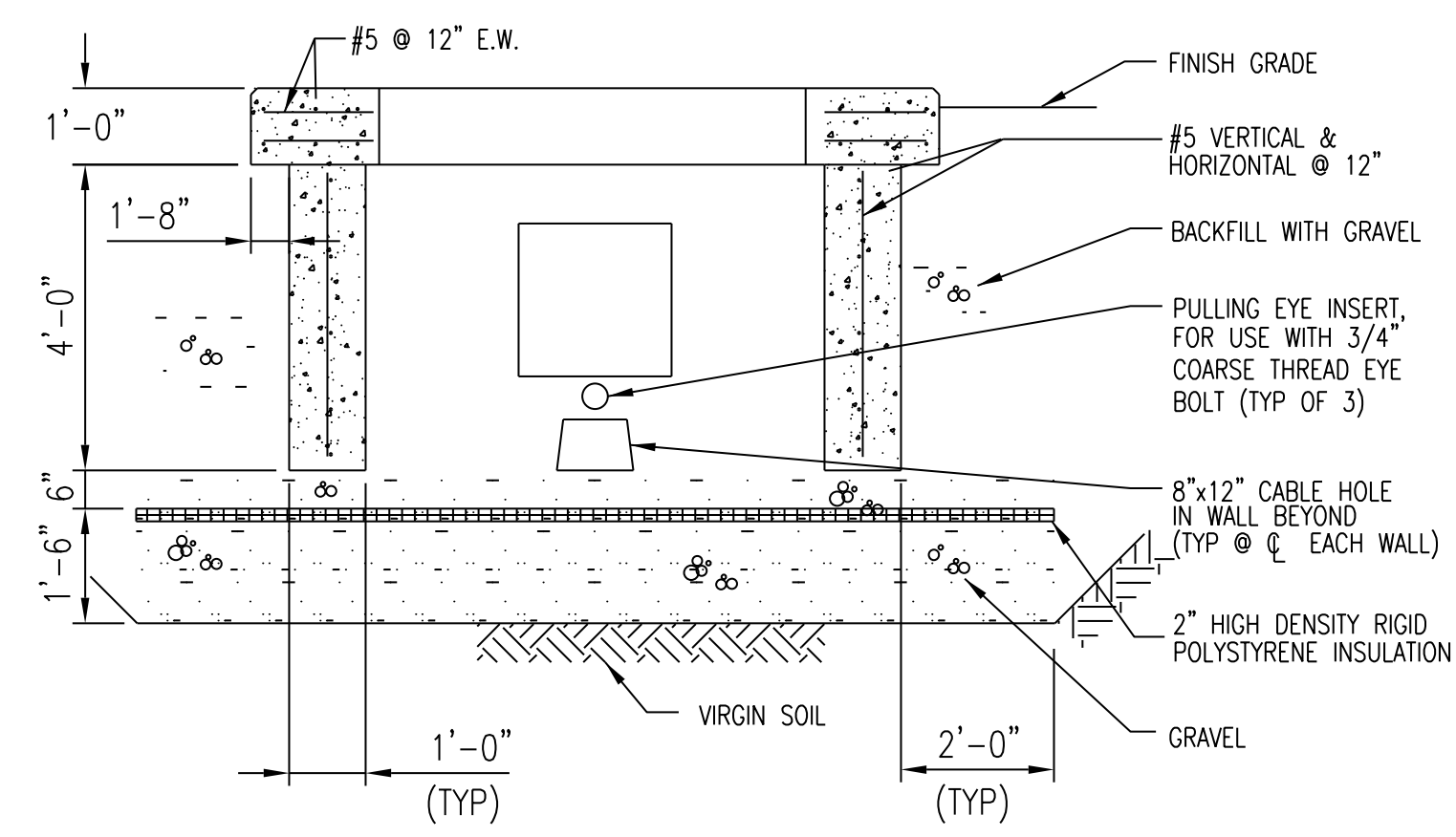
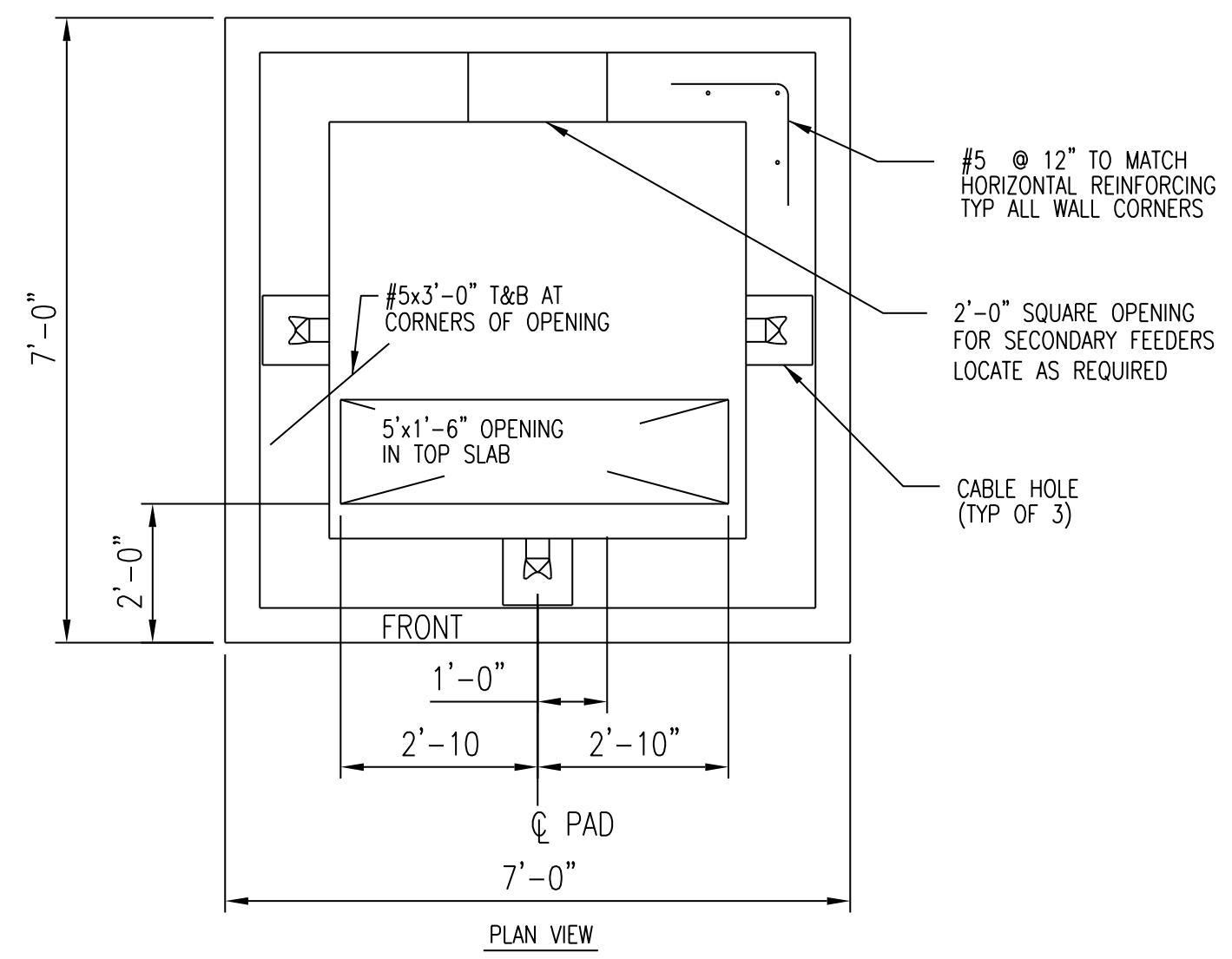
UTILITY COORDINATION NOTES  
 1. A TELEPHONE CABLE WILL BE INSTALLED TO THE \_\_\_\_\_ ROOM BY THE TELEPHONE UTILITY. PROVIDE CONDUIT AS INDICATED ON DRAWINGS. THE TELEPHONE UTILITY WILL TERMINATE PAIRS AT THE EQUIPMENT INSIDE THE \_\_\_\_\_ ROOM.  
 2. A CATV CABLE SHALL BE INSTALLED TO THE \_\_\_\_\_ ROOM BY UTILITY INSTALL TERMINATIONS FOR CATV HOMERUNS.  
 3. COORDINATE INSTALLATION WITH ALL UTILITY REGULATIONS.  
 4. PROVIDE HOMERUNS TO EACH CATV AND TELEPHONE OUTLET TO BACKBOARDS. CATV-5 RUNS SHALL NOT BE MORE THAN 300 FEET.



HH TYPE	DIMENSIONS IN INCHES					
	A	B	C	D	E	F
1	23.25	13.75	2	14	23.5	18
2	30.5	17.5	2	17.75	30.75	18
3	35.63	24	3	24.25	35.88	18

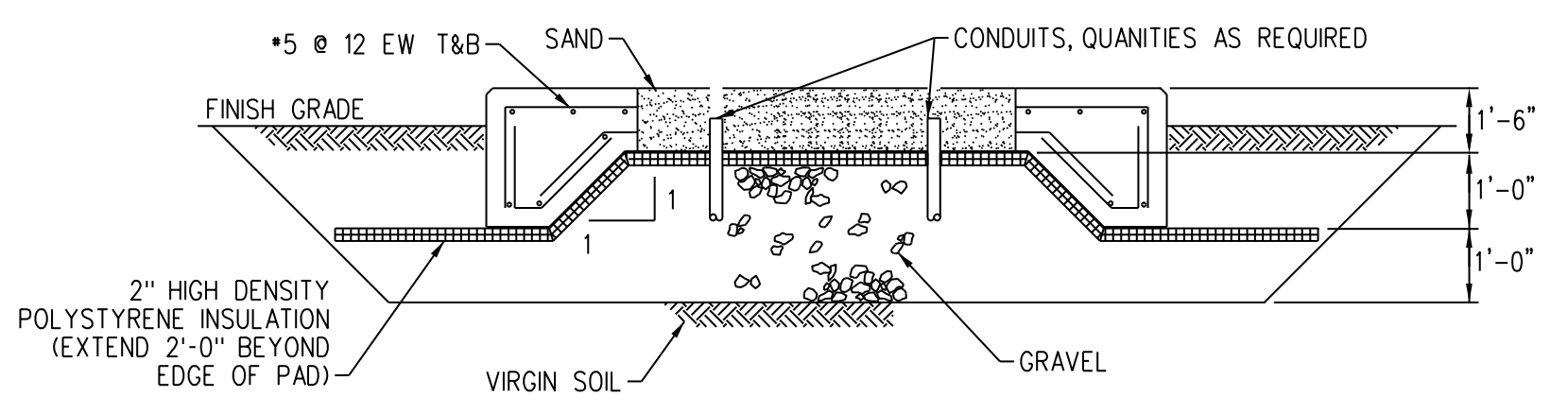
NOTES:  
 1. PROVIDE FOR CONDUIT RUNS OVER 250 FEET.  
 2. PROVIDE TYPE 3 HANDHOLE FOR CATV/TEL PULL BOXES, HMA, HRB, HRC, AND HHD.  
 3. PROVIDE TYPE 1 FOR SITE LIGHTING, SEWER PUMPS, SMALL POWER AND FIRE ALARM HHT, 2 AND 3.

**HANDHOLE DETAILS**  
SCALE: NONE



**SECTION VIEW TRANSFORMER PAD**  
SCALE: NONE

NOTES:  
 1. PLACE CONCRETE PAD ON GRAVEL AND PROVIDE ADEQUATE DRAINAGE AWAY FROM PAD. REINFORCE AS SHOWN.  
 2. "FRONT" DENOTES THE SIDE ON WHICH THE TRANSFORMER ACCESS DOORS ARE LOCATED. THE PAD MUST BE INSTALLED SO THAT THE FRONT IS READILY ACCESSIBLE.  
 3. PROVIDE 8" X 12" CONDUIT HOLES AS REQUIRED. LINE UP WITH TRENCHES. HOLES MAY EXTEND TO BOTTOM OF WALLS.  
 4. COORDINATE PAD DIMENSIONS WITH TRANSFORMER MANUFACTURERS RECOMMENDATIONS.  
 5. PRECAST PAD OF EQUAL CONSTRUCTION IS ACCEPTABLE.  
 6. APPROXIMATE CONFIGURATION. CONTRACTOR SHALL COMPLY WITH POWER UTILITY STANDARD DETAILS. CONTACT UTILITY FOR MORE INFORMATION.



SIZE PAD PER SPECIFIC EQUIPMENT AND MANUFACTURER'S RECOMMENDATIONS.

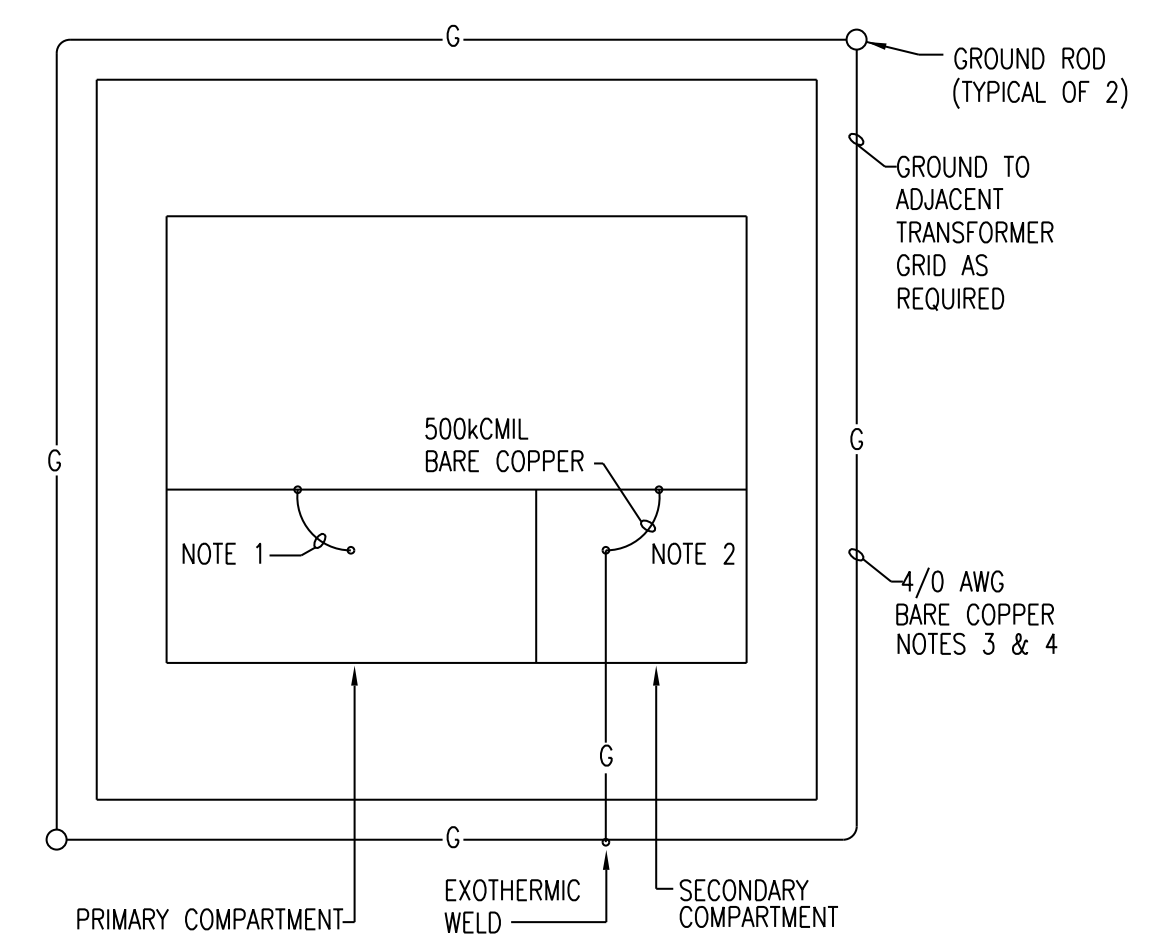
**EQUIPMENT PAD**  
SCALE: NONE

**TRANSFORMER**

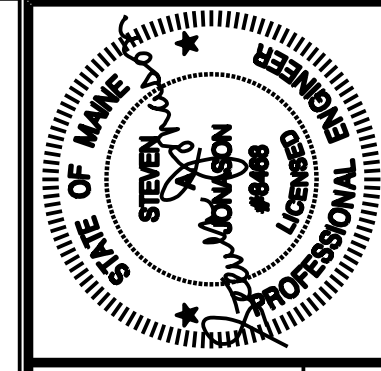
**EARTHWORK:**  
 1. GRAVEL SHALL BE CRUSHED GRAVEL AS SPECIFIED IN THE MAINE STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. COMPACT TO 95% OF ASTM A 1557 MAXIMUM DENSITY.  
 2. BACKFILL SHALL BE CRUSHED GRANULAR BACKFILL GRAVEL AS DEFINED IN MAINE DOT STANDARD SPECIFICATION. COMPACT TO 90% OF ASTM A 1557 MAXIMUM DENSITY. NATIVE SOIL MAY BE USED AS PROVIDED IT MEETS MAINE STANDARD SPECIFICATION.  
 3. SAND SHALL MEET THE REQUIREMENTS FOR MORTAR IN THE MAINE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.

**CONCRETE:**  
 1. ALL CONCRETE WORK AND REINFORCING DETAILS SHALL CONFORM TO LATEST ACI STANDARDS - ACI 318 AND ACI 315.  
 2. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40000 PSI.  
 3. AIR ENTRAINMENT SHALL BE 6% +/- 1%.  
 4. DESIGN MIXES SHALL BE PREPARED IN ACCORDANCE WITH ACI 301. READY-MIX CONCRETE SHALL CONFORM TO ASTM C94. CALCIUM CHLORIDE IS NOT PERMITTED.  
 5. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304.  
 6. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER.  
 7. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, DEFORMED BARS, FY=60,000 PSI.  
 8. MINIMUM CONCRETE COVER FOR REINFORCEMENT, UNLESS OTHERWISE INDICATED, SHALL BE AS FOLLOWS:  
 FOOTINGS, FOUNDATION, AND OTHER CONCRETE CAST AGAINST EARTH (3" MIN).  
 CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND (2" MIN).

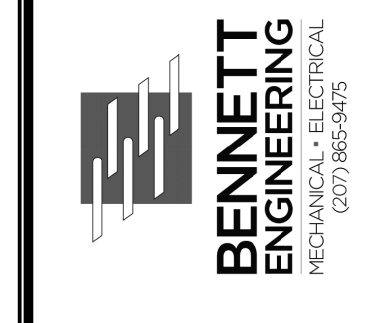
**ELECTRICAL:**  
 1. BOND PRIMARY NEUTRAL TO ENCLOSURE AND LIGHTING ARRESTER SHIELDS.  
 2. BOND GROUND STRAP FROM TRANSFORMER TANK TO NEUTRAL LUG (XO BUSHING) AND GROUND GRID.  
 3. GROUND CONNECTIONS AND CABLE SIZES SHALL COMPLY WITH NEC ARTICLE 250.  
 4. ALL GROUNDING CABLE SHALL BE BURIED AT A DEPTH OF 30". PROTECT CABLES IN 1" RIGID GALVANIZED STEEL CONDUIT ABOVE GRADE AND TO 24" BELOW GRADE.  
 5. CONDUIT SHALL BE ROUTED THROUGH OPENING IN PAD TO PRIMARY AND SECONDARY COMPARTMENTS AND SURROUNDED WITH SAND.  
 6. BOND NEUTRAL TO GROUND BUS IN SWITCHBOARDS USING 4/0 BARE COPPER WIRE OR STRAP PROVIDED BY MANUFACTURER.  
 7. BOND NEUTRAL TO BUILDING STEEL AT SWITCHBOARDS.  
 8. DO NOT TIE TRANSFORMER GRID TO BUILDING STEEL (PARALLEL PATH TO SWITCHBOARDS).



**TRANSFORMER GROUNDING**  
SCALE: NONE  
REFER TO ELECTRICAL NOTES 1-8 THIS DRAWING.



Prepared For:



Consultant:

Architect:

Project: 62 India Street  
NEWBURY / HANCOCK ST., PORTLAND ME

Revisions:  
ISSUED FOR PERMIT

Scale: 1/8" = 1'-0" or AS NOTED  
ELECTRICAL SITE NOTES & DETAILS

Date: 11/18/16  
E1.1