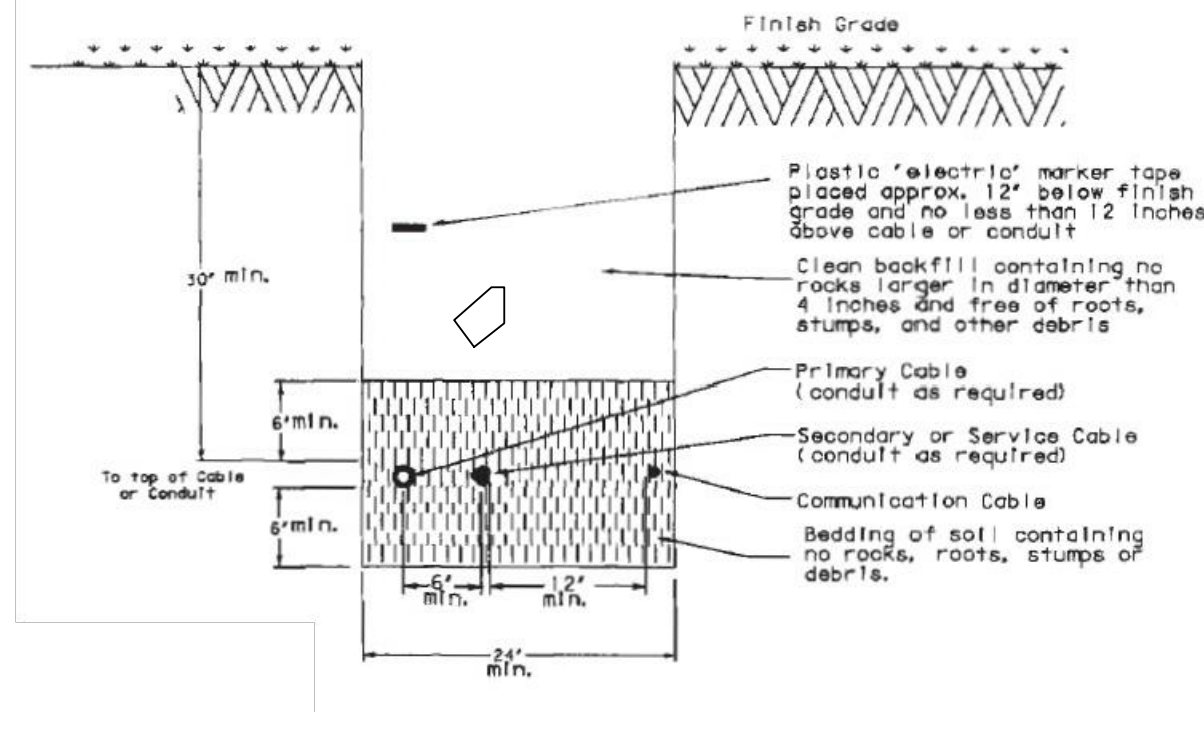


UNDERGROUND CABLE INSTALLATION
JOINTLY USED TRENCH - HORIZONTAL SEPARATION
 IN SITUATIONS WHERE THE TRENCH IS TO BE SHARED
 AGREEMENT MUST BE OBTAINED BETWEEN JOINT USERS

Trench shall be a minimum of 24" wide



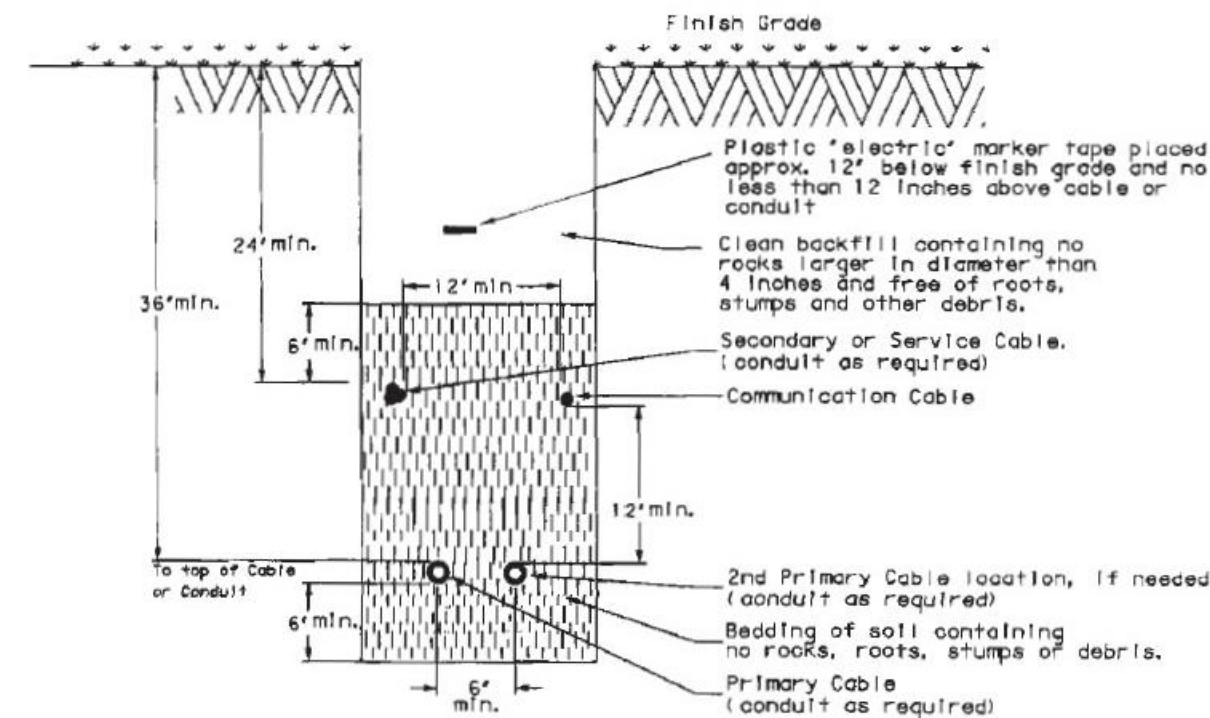
UNDERGROUND CABLE INSTALLATION JOINTLY USED TRENCH HORIZONTAL SEPARATION

(A) N.T.S.

UNDERGROUND CABLE INSTALLATION
JOINTLY USED TRENCH - VERTICAL SEPARATION
 IN SITUATIONS WHERE THE TRENCH IS TO BE SHARED
 AGREEMENT MUST BE OBTAINED BETWEEN JOINT USERS

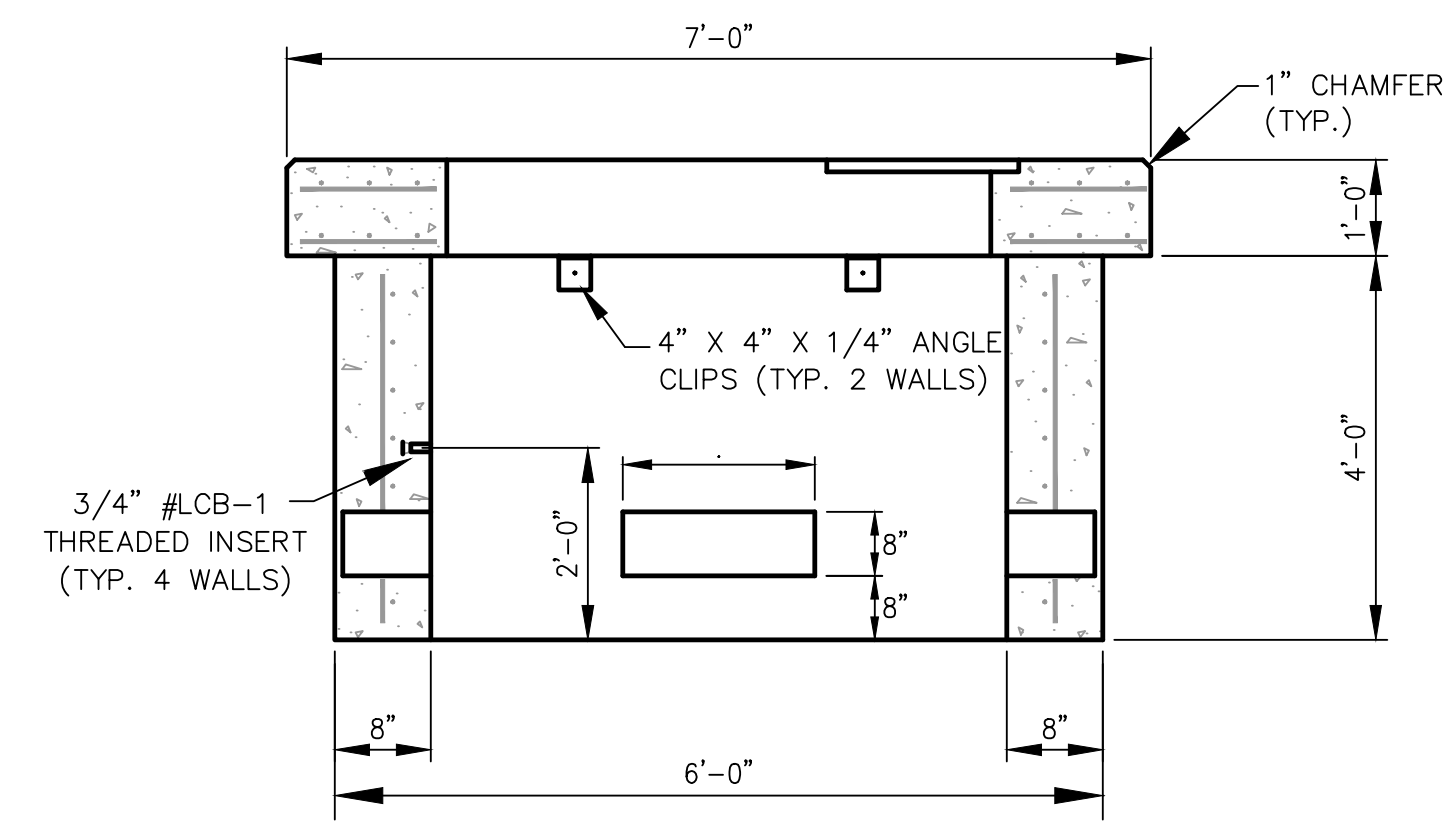
NOTES:

1. Installation should not allow the inter-twining of cables.
2. Bedding and backfill shall be free of roots, stumps and other debris.
3. Communication cable and power cable shall have no less than 12 inches of radial separation.



UNDERGROUND CABLE INSTALLATION JOINTLY USED TRENCH VERTICAL SEPARATION

(C) N.T.S.

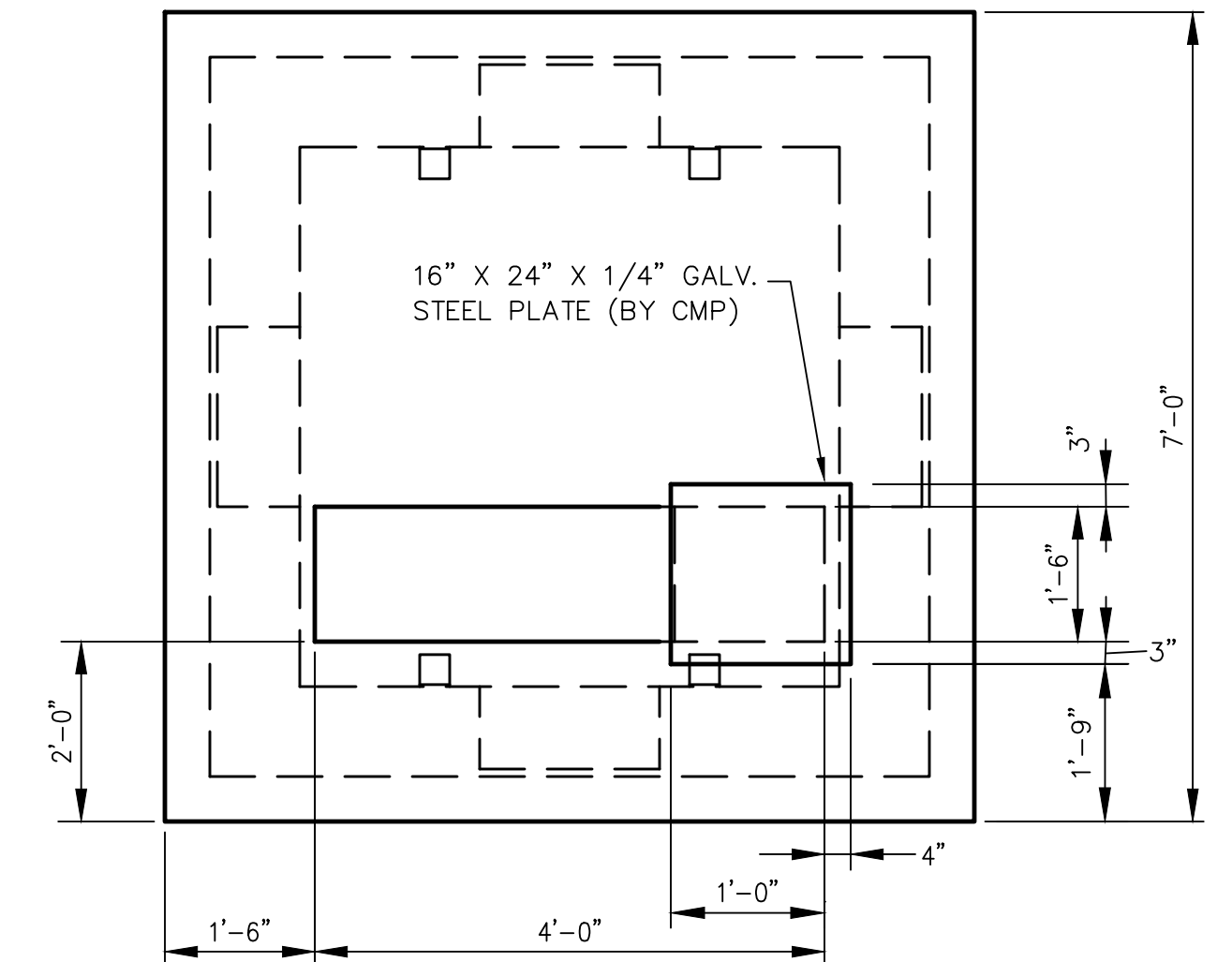


NOTES:

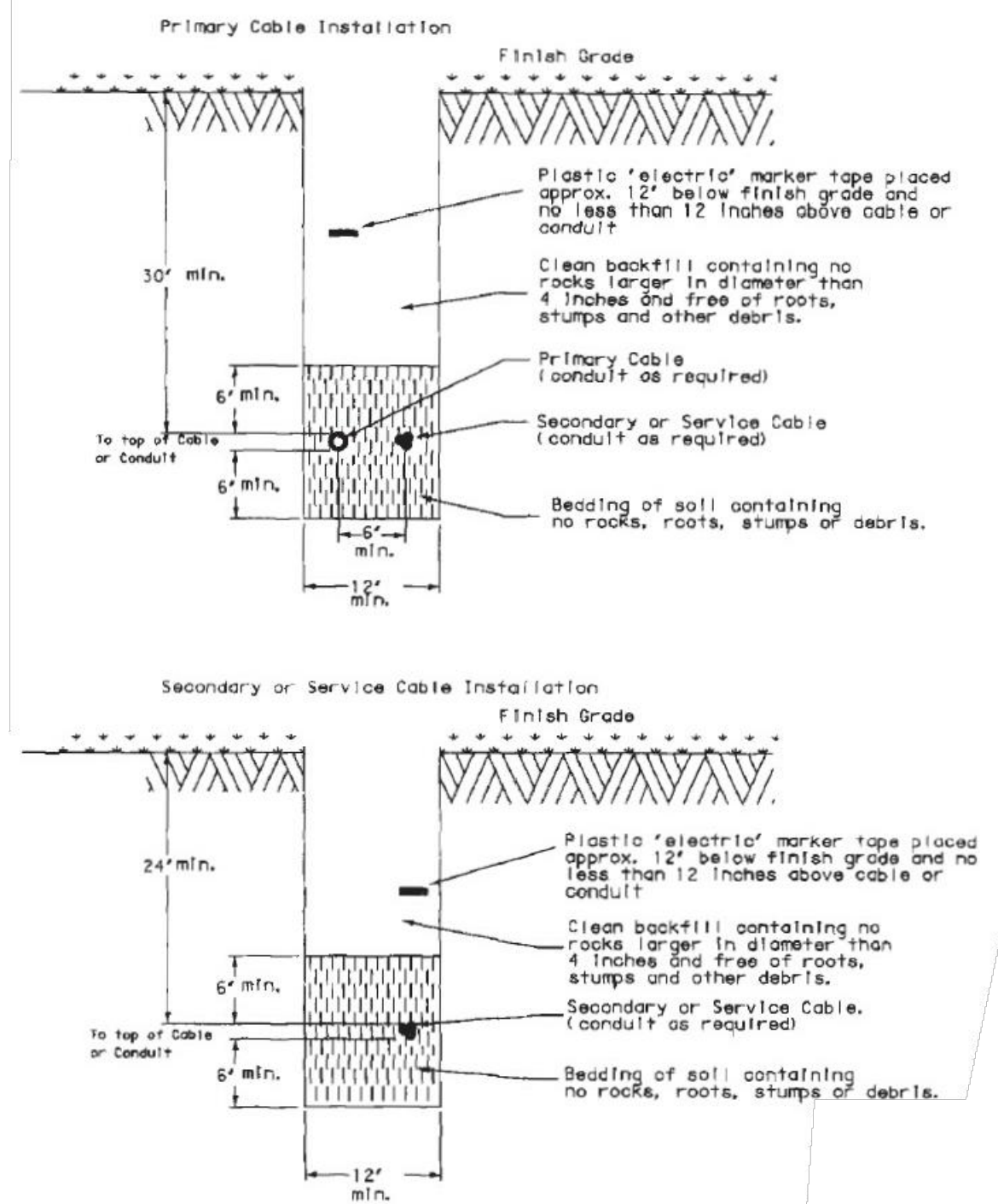
1. CONCRETE: 4,000 PSI AFTER 28 DAYS.
2. REINFORCING: PAD-#4'S @ 12" O.C. E.W.E.F. BASE-1 MAT OF #4'S @ 12" O.C.
3. AS PER CENTRAL MAINE POWER COMPANY SPECIFICATIONS, AS MANUFACTURED BY SUPERIOR CONCRETE OR EQUAL.

TRANSFORMER PAD DETAIL

(E) N.T.S.

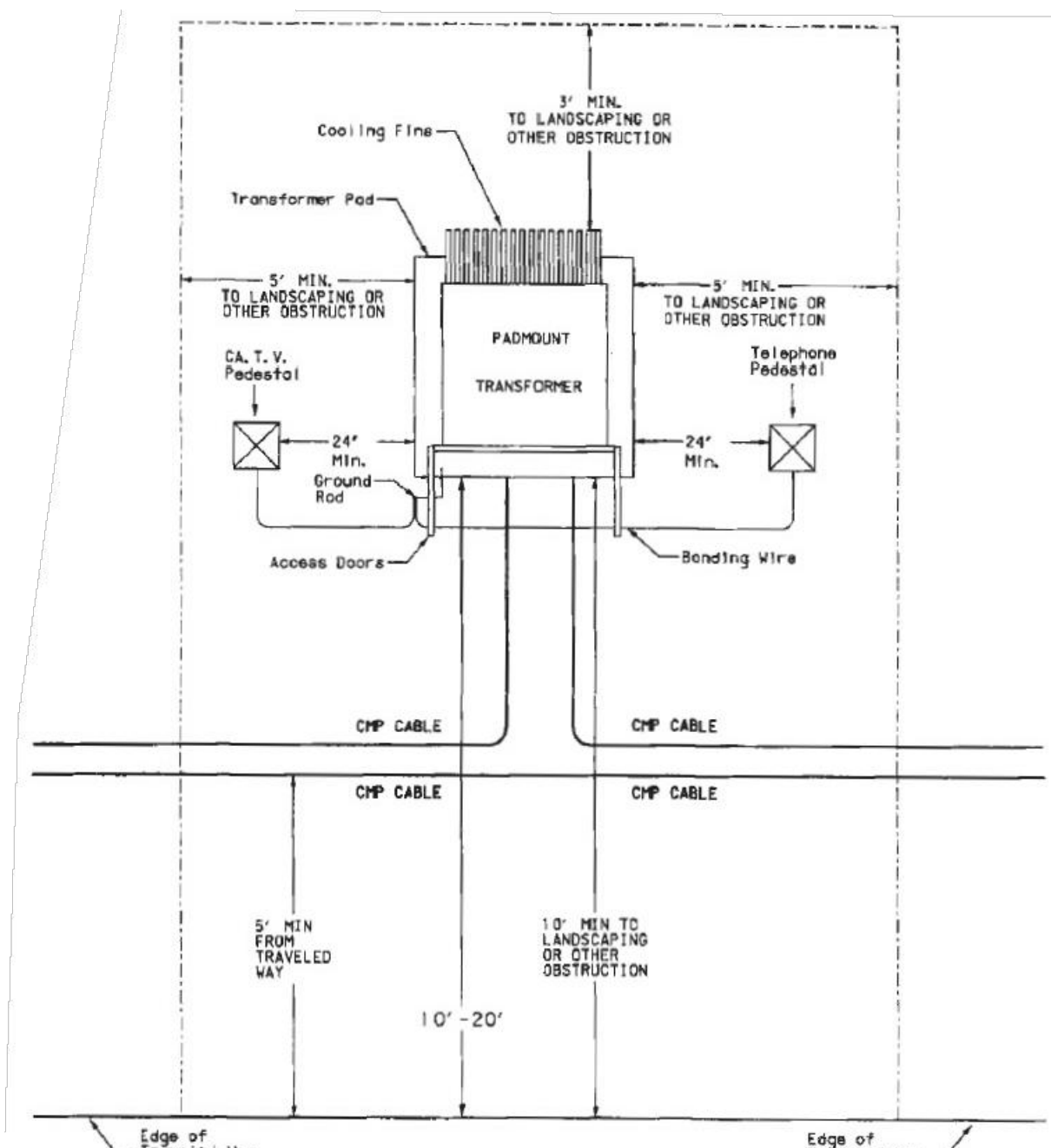


UNDERGROUND CABLE INSTALLATION
TRENCH OCCUPIED BY CENTRAL MAINE POWER COMPANY ONLY



UNDERGROUND CABLE TRENCH FOR POWER ONLY

(B) N.T.S.



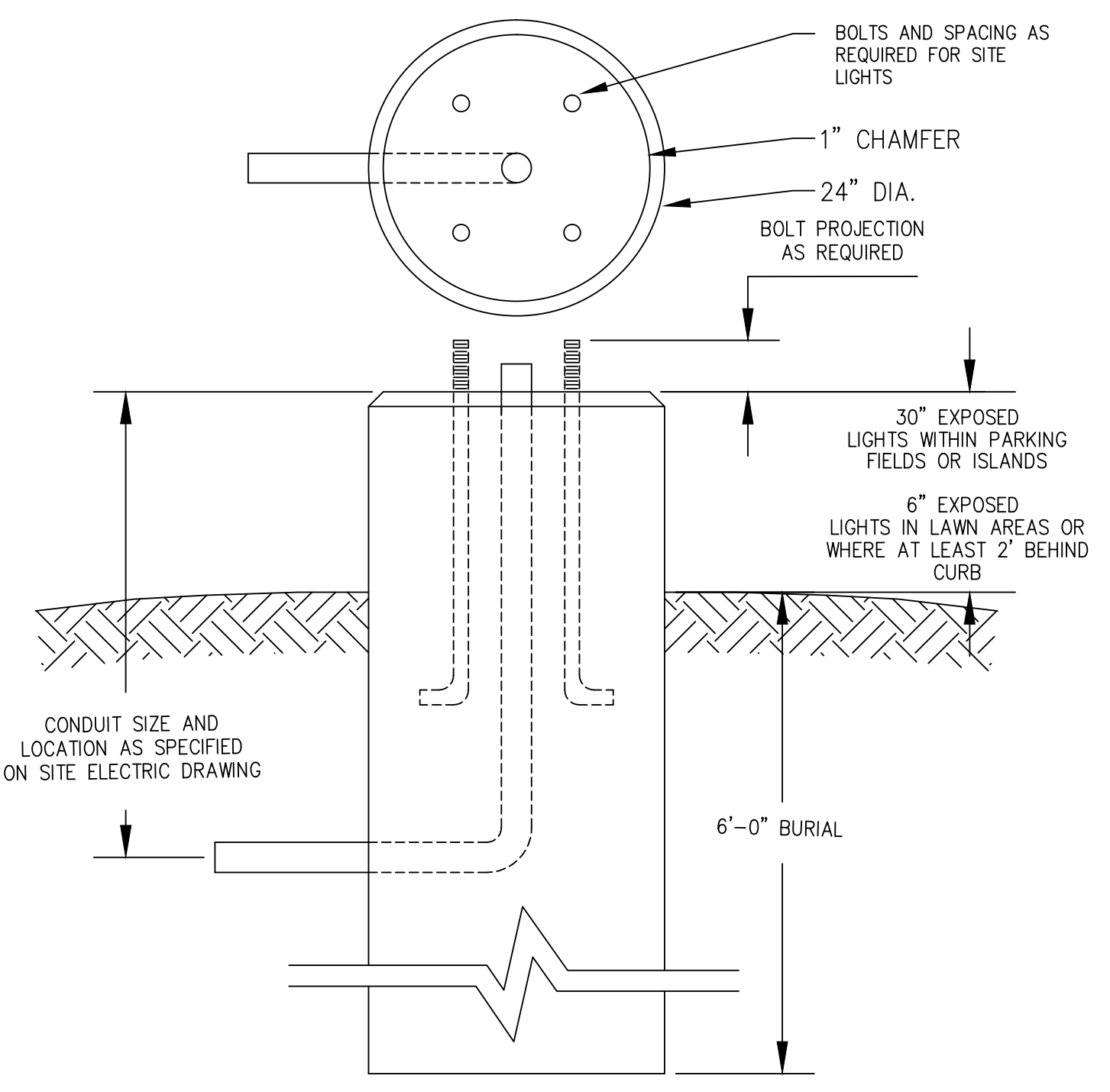
Preferred layout of a padmount transformer and direct buried underground distribution system. Prior CMP approval is required for any deviation from this layout.

At each transformer location a level 10 foot by 10 foot (minimum) area will be provided. The elevation of this area shall be sufficiently high to always be above the highest expected water level and at or above the top of any nearby ditch slope. The transformer foundation shall be installed so the top of the foundation is 6 inches above this elevation. The transformer foundation shall be installed no more than 20 feet from a road surface.

CMP PADMOUNT TRANSFORMER LAYOUT

(D) N.T.S.

NOTE: ANCHOR BOLTS TO BE PROVIDED TO CONTRACTOR BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL LIGHT POLE FOUNDATIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR TRENCHING AND BACKFILLING ALL CONDUITS. THE OWNER WILL BE RESPONSIBLE FOR SETTING OF LIGHT POLES AND ALL WIRING AND LIGHTING ASSEMBLIES.

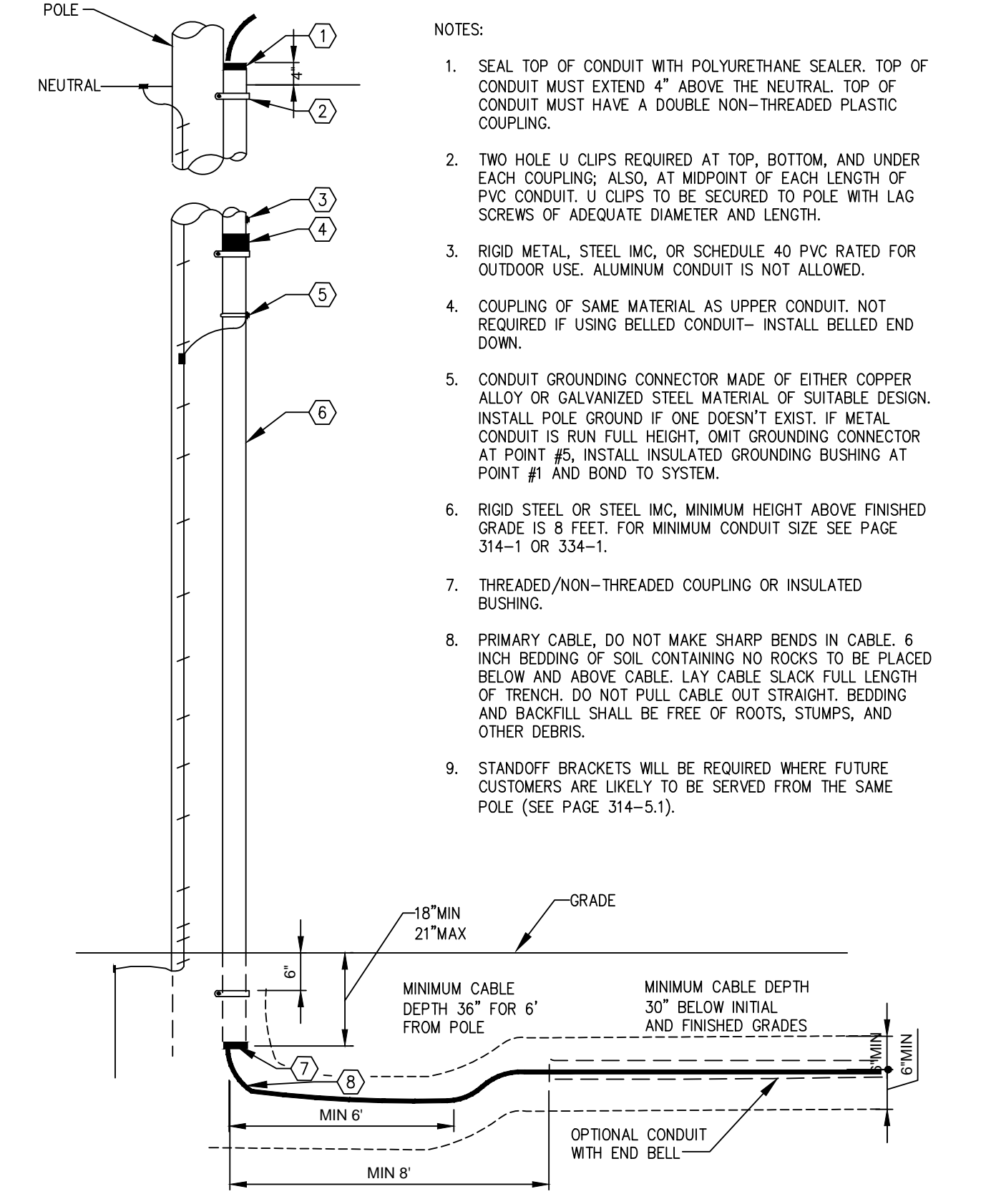


DESIGN NOTES:

1. CONCRETE 4,000 PSI AT 28 DAYS
2. REINFORCING IS AS SPECIFIED. (TYP. 4 - #4 VERTICALLY AND #3 STIRRUPS 12" O.C. HORIZONTALLY)
3. ANCHOR BOLTS AND GROUNDING AS SPECIFIED AND REQUIRED BY SUPPLIER.
4. EXPOSED PORTION OF CONCRETE FOUNDATION TO BE PAINTED WITH 2 COATS OF ACRYLIC PAINT. COLOR TO MATCH POLE COLOR.
5. FOR POLE HEIGHTS EQUAL TO OR LESS THAN 25' TALL.

24" ROUND PRECAST CONCRETE LIGHT POLE FOUNDATION

(F) N.T.S.



NOTES:

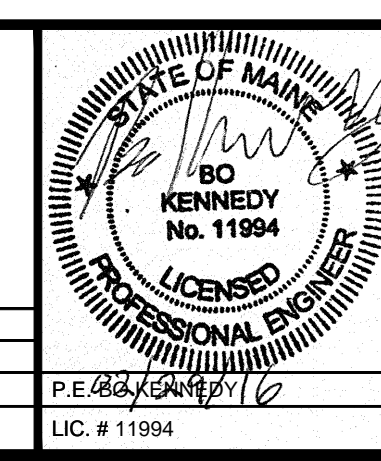
1. SEAL TOP OF CONDUIT WITH POLYURETHANE SEALER. TOP OF CONDUIT MUST EXTEND 4" ABOVE THE NEUTRAL. TOP OF CONDUIT MUST HAVE A DOUBLE NON-THREADED PLASTIC COUPLING.
2. TWO HOLE U CLIPS REQUIRED AT TOP, BOTTOM, AND UNDER EACH COUPLING. ALSO, AT MIDPOINT OF EACH LENGTH OF PVC CONDUIT. U CLIPS TO BE SECURED TO POLE WITH LAG SCREWS OF ADEQUATE DIAMETER AND LENGTH.
3. RIGID METAL, STEEL IMC, OR SCHEDULE 40 PVC RATED FOR OUTDOOR USE. ALUMINUM CONDUIT IS NOT ALLOWED.
4. COUPLING OF SAME MATERIAL AS UPPER CONDUIT. NOT REQUIRED IF USING BELLED CONDUIT- INSTALL BELLED END DOWN.
5. CONDUIT GROUNDING CONNECTOR MADE OF EITHER COPPER ALLOY OR GALVANIZED STEEL MATERIAL OF SUITABLE DESIGN. INSTALL POLE GROUND IF ONE DOESN'T EXIST. IF METAL CONDUIT IS RUN FULL HEIGHT, OMIT GROUNDING CONNECTOR AT POINT #1. INSTALL INSULATED GROUNDING BUSHING AT POINT #1 AND BOND TO SYSTEM.
6. RIGID STEEL OR STEEL IMC, MINIMUM HEIGHT ABOVE FINISHED GRADE IS 8 FEET. FOR MINIMUM CONDUIT SIZE SEE PAGE 314-1 OR 334-1.
7. THREADED NON-THREADED COUPLING OR INSULATED BUSHING.
8. PRIMARY CABLE, DO NOT MAKE SHARP BENDS IN CABLE. 6 INCH BEDDING OF SOIL CONTAINING NO ROCKS TO BE PLACED BELOW AND ABOVE CABLE. LAY CABLE SLACK FULL LENGTH OF TRENCH. DO NOT PULL CABLE OUT STRAIGHT. BEDDING AND BACKFILL SHALL BE FREE OF ROOTS, STUMPS, AND OTHER DEBRIS.
9. STANDOFF BRACKETS WILL BE REQUIRED WHERE FUTURE CUSTOMERS ARE LIKELY TO BE SERVED FROM THE SAME POLE (SEE PAGE 314-5.1).

PRIMARY URD RISER CONDUIT DETAIL

(G) N.T.S.

PRELIMINARY - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION
2	02.29.16	FINAL SITE AND SUBDIVISION PLANS SUBMITTED TO CITY
1	01.22.16	SUBMITTED TO CLIENT FOR REVIEW



PROJECT	SUBURBAN PROPANE RELOCATION
SHEET TITLE	ELECTRICAL AND LIGHTING DETAILS
CLIENT	THOMPSON'S POINT DEVELOPMENT CO. INC.

STANTEC CONSULTING SERVICES INC.	
778 MAIN ST. SUITE 8 SOUTH PORTLAND, ME 04106 WWW.STANTEC.COM	
DRAWN: DED	DATE: JAN 2016
DESIGNED: BEK	SCALE: AS NOTED
CHECKED: BEK	JOB NO. 195350142
FILE NAME: SP-M157 DETAILS	
SHEET	C-8.4