



REBAR:
 1. Reinforcing rebars to grad. 400M, CSA-G30, 18M. All outer reinforcing steel shall have a minimum of 75mm (3") concrete cover. Welding shall conform to CSA W59, 47.1.

CONCRETE:
 1. Concrete - 30 MPa in 7 days
 -S₁ - BK air
 -70mm - 100mm slump
 -Type 50 cement
 -Other requirements to satisfy the City of Edmonton's "Specification for Structural Footing"
 2. All concrete works in/c placing, consolidation & winter protection shall be done in accordance with the latest version of CSA, CAN3-A23.1 & A23.4.

ANCHOR BOLT:
 1. All anchor rods to be of grad. 400M, CSA-G30, 18M, yield strength 400MPa (min.). Each anchor rod w/ 2-A194 grade 2H heavy hex nuts and 1- F436 washer. The whole assembly shall be hot dip galvanized. Galvanizing shall conform to G 164M.
 2. Anchor Bolt Tightening: remove nuts, washers. Install pole base. Install washer, and nuts tensioning to snug tight plus 1/3 turn-of-nut.

SOIL:
 1. Soil is assumed to be homogeneous firm clay. During installation if unsuitable soil is found to be more than 1.0m deep, the pile length must be increased to accommodate such additional depth of unsuitable soil. If site condition does not concur with the firm clay assumption, it must be notified to the Project Engineer immediately.
 2. Top of pile to be placed at 0-25mm above the concrete if installed in the sidewalk, 150mm above ground if installed in level ground.
 3. For pile on sloped ground steeper than 1 vertical to 4 horizontal contact designer for a deeper pile.

PRECAST BASE INSTALLATION:
 1. Drill hole min. 610mm (24") dia and 2285mm (7'-6") deep. Prepare compacted gravel mix, bed (min. 6") Place the pre-cast base at required position. Pour 2MPa (7 days strength) fillcrete and compact properly. (7 days) days waiting time to install street light pole.
 2. Ensure a plumb installation of the base. Levelling shims shall not be used for the installation of the pole.

PRECAST CONCRETE BASE (PILE) DETAILS:

POLE DETAILS	BCD	PILE SIZE	PILE DEPTH
36"x8" SD POLE	292mm (11.5")	508mmx508mm (20'x20')	320mm (10'-6")

Note:
 Dimensions are shown in metric unit with imperial. In the event of any discrepancy, the metric unit will prevail.

Emont TRANSPORTATION SERVICES
 TRAFFIC OPERATIONS BRANCH
TRAFFIC SIGNALS
 TYPICAL PRECAST CONCRETE BASE
 292mm (11.5") BCD
 NOT TO SCALE DWG. NO.