TOMKO SPORTS SYSTEMS

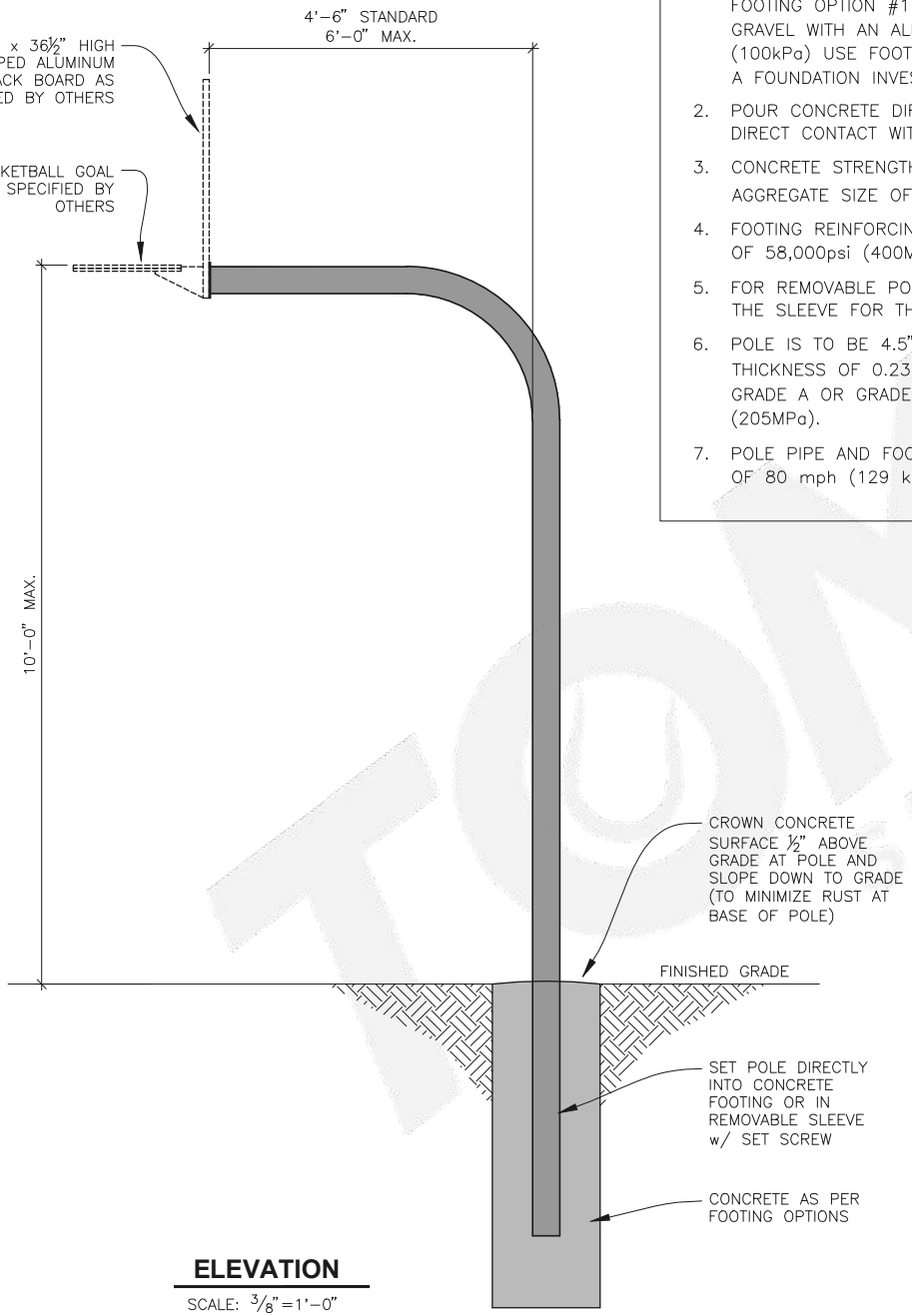
JOB No. 120-400

lang structural engineering inc.

#201-2313 West Railway Street.
Abbotsford, B.C.
V2S 2E3
Abbotsford (604) 853-8522
Toll Free (604) 857-1757
Fax (604) 853-0158
E-mail mail@langeng.com

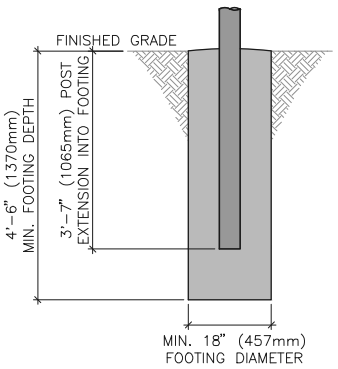
STRUCTURAL SPECIFICATIONS

1. EXCAVATE POST HOLE WITH DIAMETER AND DEPTH SHOWN IN THE DIFFERENT DIAGRAM OPTIONS. FOR GOOD SOIL CONDITIONS SUCH AS SANDY GRAVEL OR GRAVEL WITH AN ALLOWABLE SOIL BEARING CAPACITY OF 2000psf (100kPa) OR BETTER, USE FOOTING OPTION #1. FOR POOR SOIL CONDITIONS SUCH AS CLAY, SAND, OR SILTY GRAVEL WITH AN ALLOWABLE SOIL BEARING CAPACITY OF LESS THAN 2000psf (100kPa) USE FOOTING OPTION #2. FOR FOOTINGS IN ORGANIC CLAYS AND PEATS, A FOUNDATION INVESTIGATION BY A GEOTECHNICAL ENGINEER WILL BE REQUIRED.
2. POUR CONCRETE DIRECTLY INTO THE EXCAVATED HOLE SO THAT CONCRETE IS IN DIRECT CONTACT WITH THE SOIL FOR THE FULL FOOTING DEPTH.
3. CONCRETE STRENGTH TO BE A MINIMUM OF 3000psi (20MPa) WITH A MAXIMUM AGGREGATE SIZE OF ¾" (20mm) AND A SLUMP OF 3" (75mm).
4. FOOTING REINFORCING BARS TO BE GRADE 400 WITH A MINIMUM YIELD STRENGTH OF 58,000psi (400MPa).
5. FOR REMOVABLE POLES ENSURE THAT THE REMOVABLE POLE HAS A TIGHT FIT TO THE SLEEVE FOR THE FULL SLEEVE DEPTH.
6. POLE IS TO BE 4.5" (114mm) OUTSIDE DIAMETER SCHEDULE 40 PIPE, WITH A WALL THICKNESS OF 0.237" (6.02mm), HOT DIPPED GALVANIZED, AND MEETING ASTM A53 GRADE A OR GRADE B SPECIFICATIONS WITH MINIMUM YIELD STRENGTH OF 30,000psi (205MPa).
7. POLE PIPE AND FOOTING SIZES HAVE BEEN DESIGNED FOR A MAXIMUM WIND LOAD OF 80 mph (129 kph).



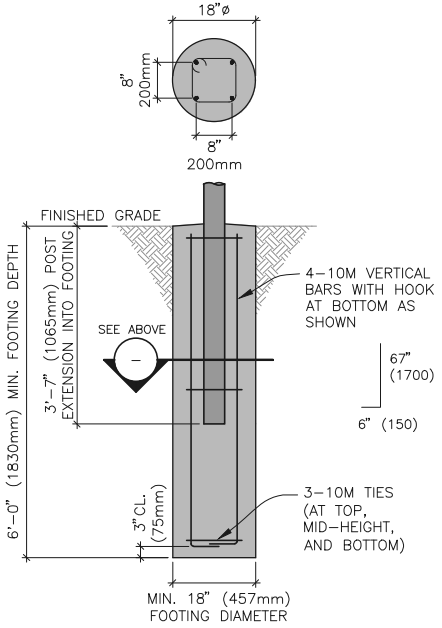
ELEVATION

SCALE: 3/8" = 1'–0"



FOOTING OPTION #1

N.T.S. (GOOD SOIL CONDITIONS)



FOOTING OPTION #2

N.T.S. (POOR SOIL CONDITIONS)