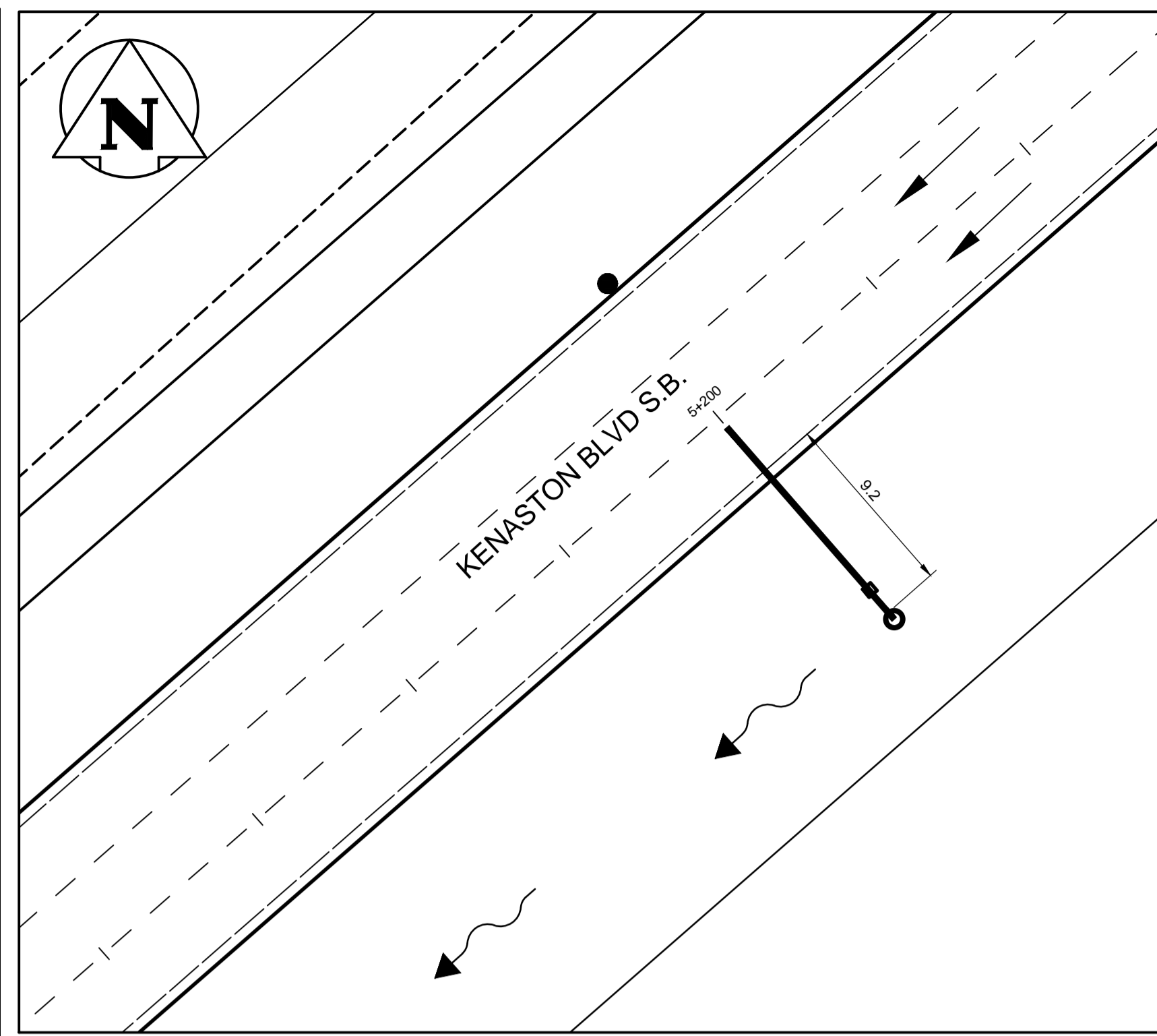
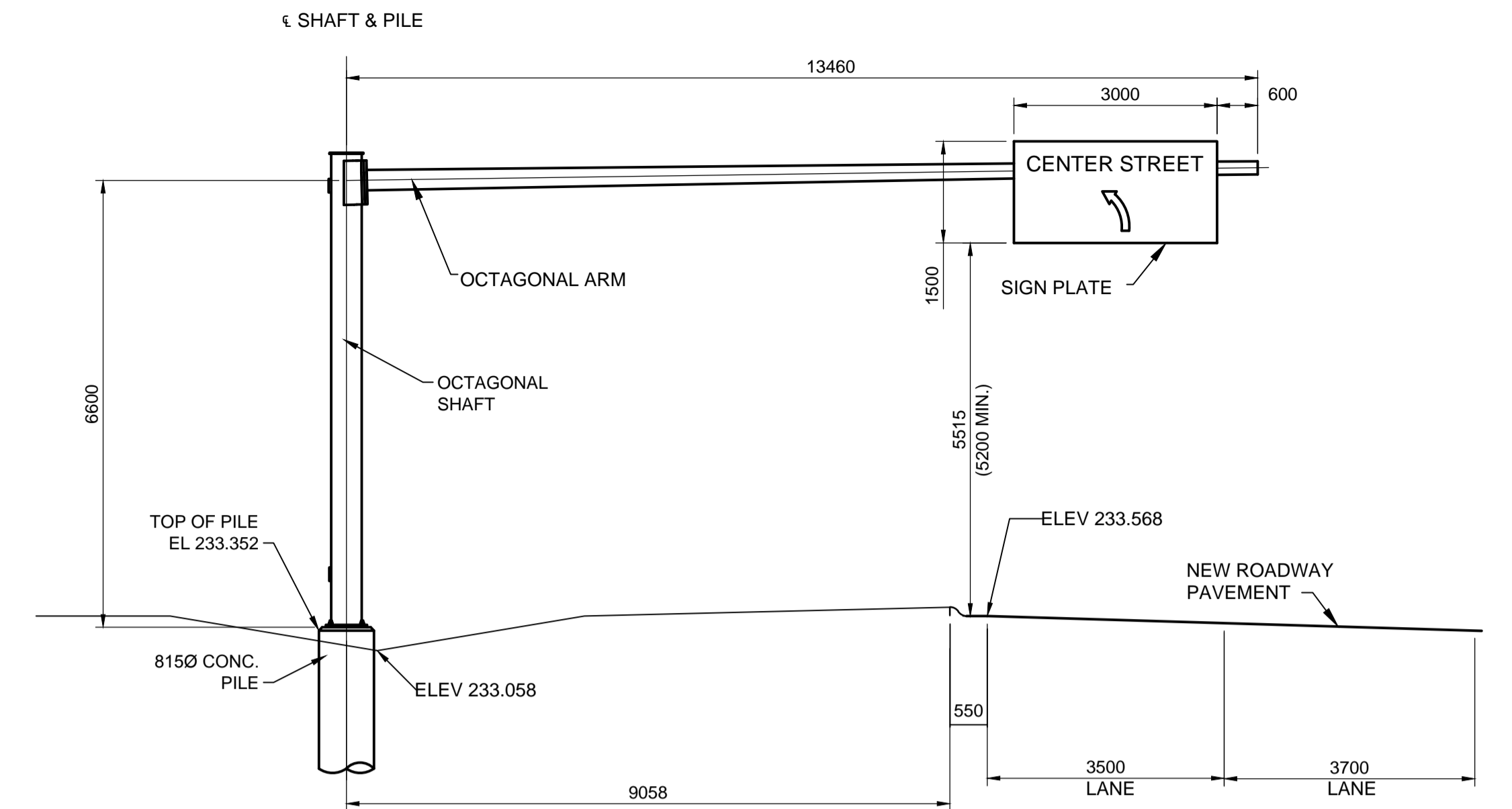


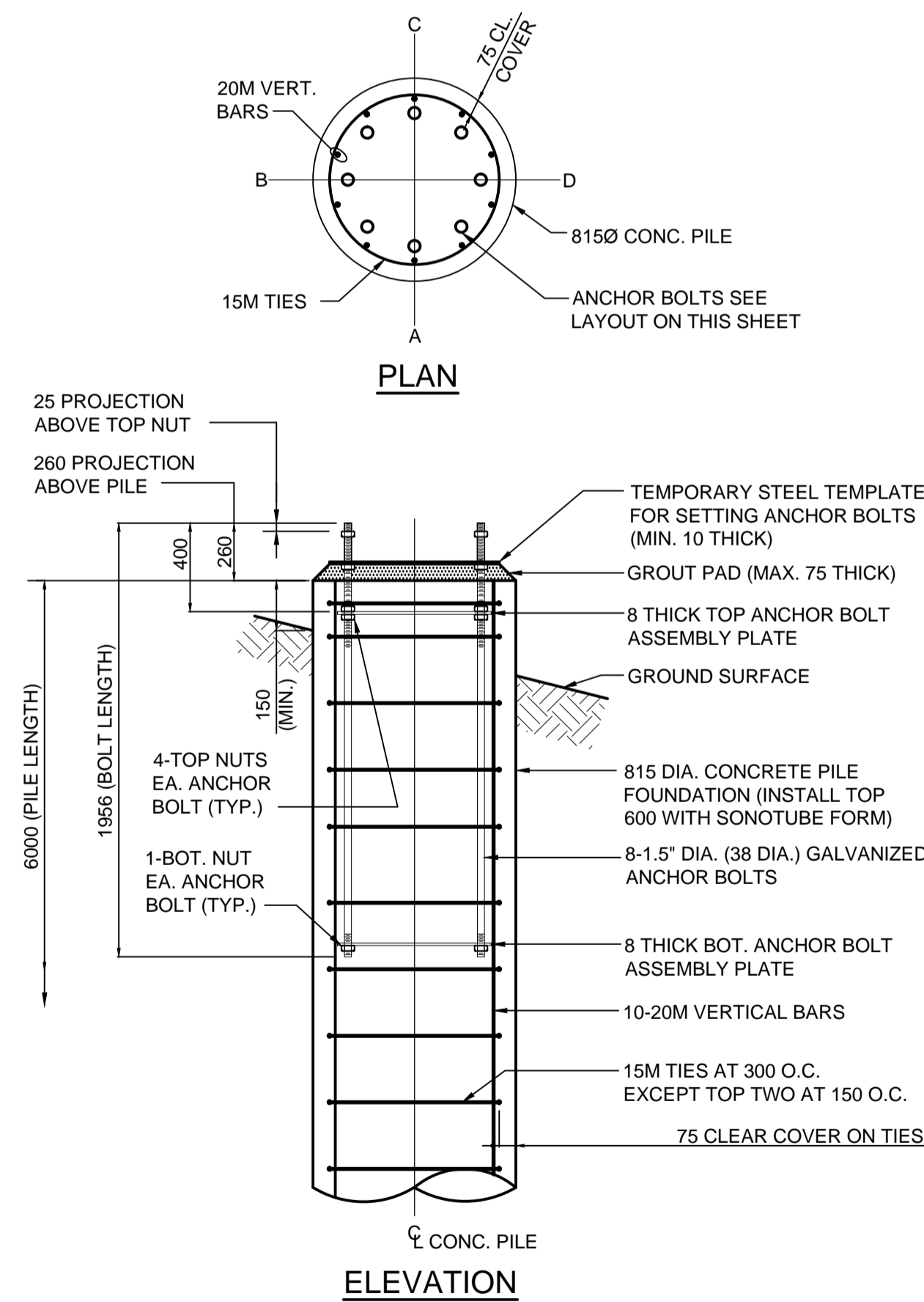
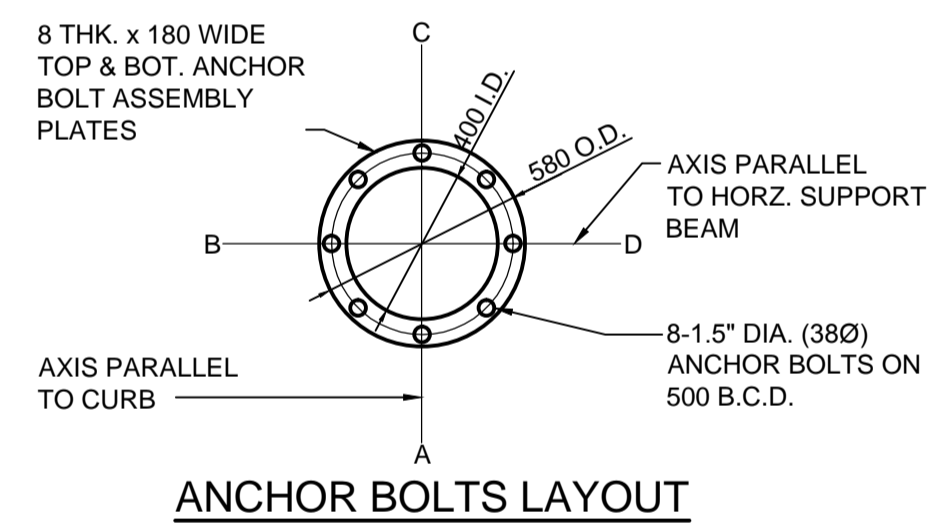
1 SIGN LOCATION KEY PLAN
1:2000



2 OVERHEAD SIGN @ STA 5+200
1:250 OVERHEAD SIGN SUPPORT STRUCTURE NO. S766



3 ELEVATION - LOOKING SOUTH
1:75 OVERHEAD SIGN SUPPORT STRUCTURE NO. S766



PILE CONSTRUCTION NOTES

- REINFORCING STEEL
 - CSA G30.12 GR. 400W
 - VERTICAL BARS FULL LENGTH OF PILE
 - HOT DIP GALVANIZED
- ANCHORS BOLTS
 - ASTM F1554: 380MPa
 - 8-1.5" DIA. (38 DIA.) x 1956 LG. ANCHOR BOLTS THREADED BOTH ENDS (559 TOP & 102 BOT.)
 - EACH BOLT C/W 5 NUTS AND WASHERS (1-BOT. END 4-TOP END). ANCHOR BOLTS CAGE ASSEMBLY HOT DIP GALVANIZED FULL LENGTH AFTER FABRICATION.
 - B.C.D.=BOLT CIRCLE DIAMETER TO CENTER OF BOLT GROUP.
- ANCHOR BOLTS SHALL BE ALIGNED WITH A TEMPORARY STEEL TEMPLATE. PLACEMENT OF ANCHOR BOLTS AND CONCRETE WITHOUT THE TEMPLATE WILL NOT BE PERMITTED.
- FOLLOWING INSTALLATION OF THE STEEL STRUCTURE, TIGHTEN THE LOWER LEVELING NUTS AND TOP NUTS TO A SNUG-TIGHT CONDITION, FOLLOWED BY $\frac{1}{2}$ NUT ROTATION (+20'-'0") OF THE TOP NUTS.
- TOP 1000mm OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE).
- CONTRACTOR SHALL REMOVE THE BASE TEMPLATE, NUTS AND FORM, FOLLOWING A MINIMUM 24 HOUR CONCRETE CURING PERIOD.
- CONCRETE MIX DESIGN
 - PROPORTIONING OF FINE AGGREGATE, COARSE AGGREGATE, CEMENT, WATER, AND AIR ENTRAINING AGENT SHALL BE SUCH AS YIELD CONCRETE HAVING THE REQUIRED STRENGTH AND WORKABILITY AS FOLLOWS:
 - CLASS OF EXPOSURE: S-1
 - MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS = 35 MPa
 - MAXIMUM WATER/CEMENT RATIO = 0.4
 - AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-09 (4-7%)
 - CEMENT - IN ACCORDANCE WITH CSA A23.1-09

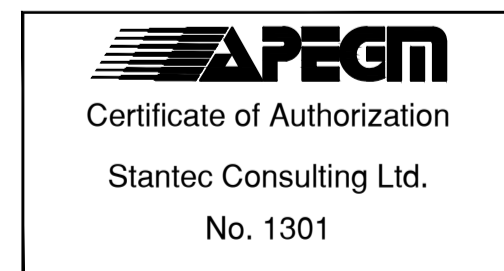
METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
- OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.



84R635 - Lake Crest Rd. & Waverley St., Tblt on top of 0.05m dia. x 2.4m iron pipe, 14.2m N. of S.L. of Lake Crest Rd. & 0.6m E. of E.L. of Waverley St.

150 WM	WATERMAIN	150 WM	MTS	M.T.S.	150 mm W.M.	WATERMAIN	150 mm W.M.	UNDERGROUND STRUCTURES	B.M. 76-030 ELEV. 232.457m	DESIGNED BY H.M.V.	DESIGN TEAM	ENGINEER'S SEAL PROVINCE OF MANITOBA K. S. AMY MEMBER 23572 REGISTERED PROFESSIONAL ENGINEER	THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT	CITY DRAWING NUMBER S766-2013-01
300 LDS	LAND DRAINAGE SEWER	300 LDS		CONCRETE	300 mm L.D.S.	HYDRANT VALVE	300 mm L.D.S.	DATE		DRAWN BY T.G.	Stantec	CONSULTANT PROJECT NUMBER 113705751	WWARP PART 3 - CONTRACT 1 STA 2+922.4 TO STA 5+935	SHEET 48 OF 64
250 WWS	WASTE WATER SEWER	250 WWS		ASPHALT	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.	NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	ISSUED FOR TENDER 3/04/08 K.S.A.	APPROVED BY K.S.A.				
100 GAS	GAS	100 GAS		PLANING		LAND DRAINAGE SEWER		NO. REVISIONS	DATE	CHECKED BY K.S.A.				
HYDRO	HYDRO	HYDRO		PAVING STONES		WASTE WATER SEWER		DATE	BY	APPROVED BY K.S.A.				
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	PROPERTY LINE		HYDRANT VALVE		DATE	DATE	DATE	13/02/12			
				SURVEY BAR		WASTE WATER SEWER								
				CURB RAMP		HYDRANT VALVE								
				DITCH		WASTE WATER SEWER								
				SWALE		HYDRANT VALVE								
						HYDRANT VALVE								

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