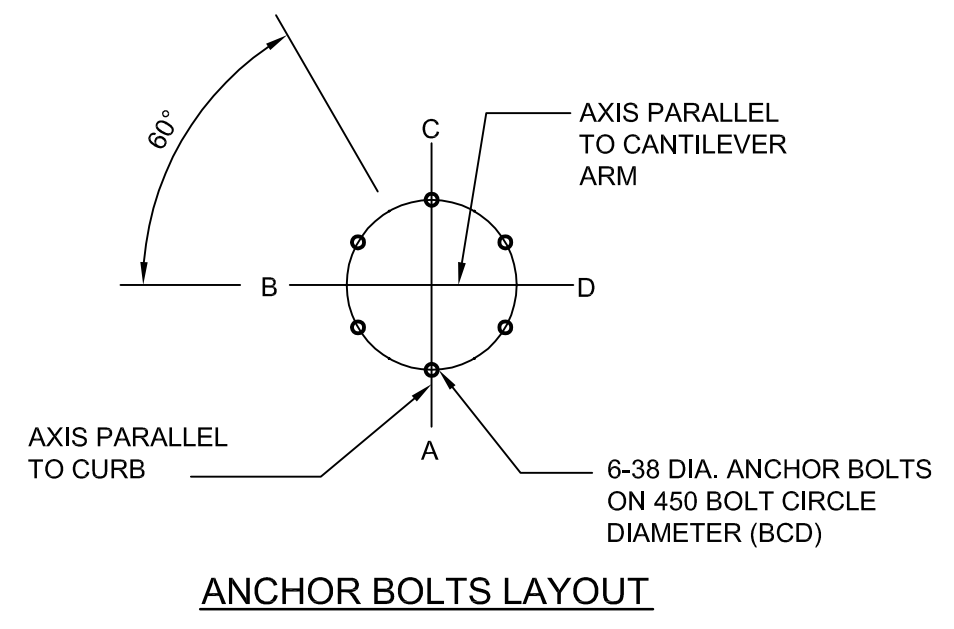
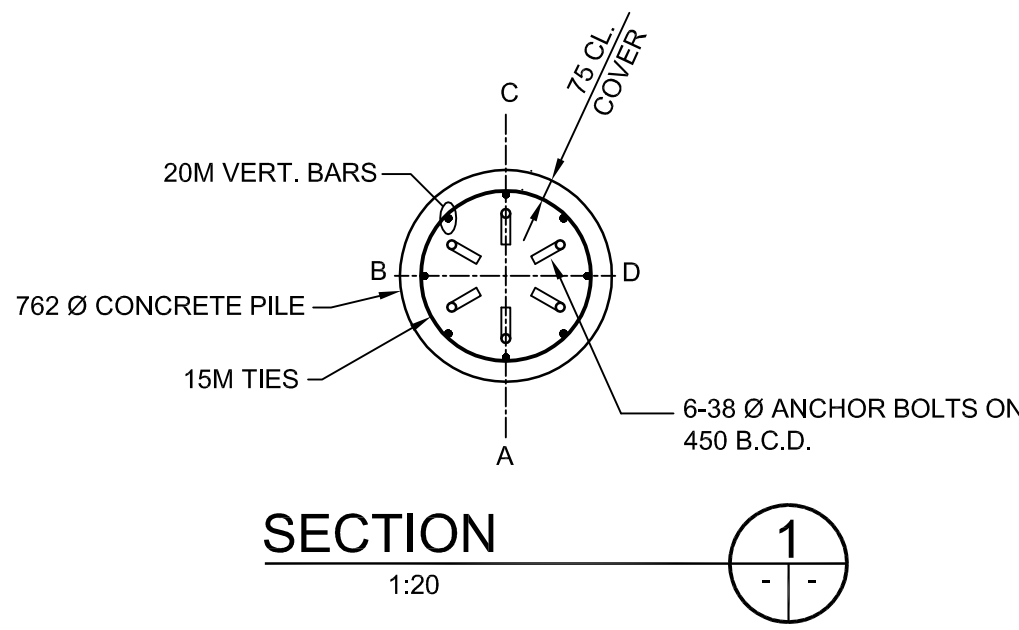


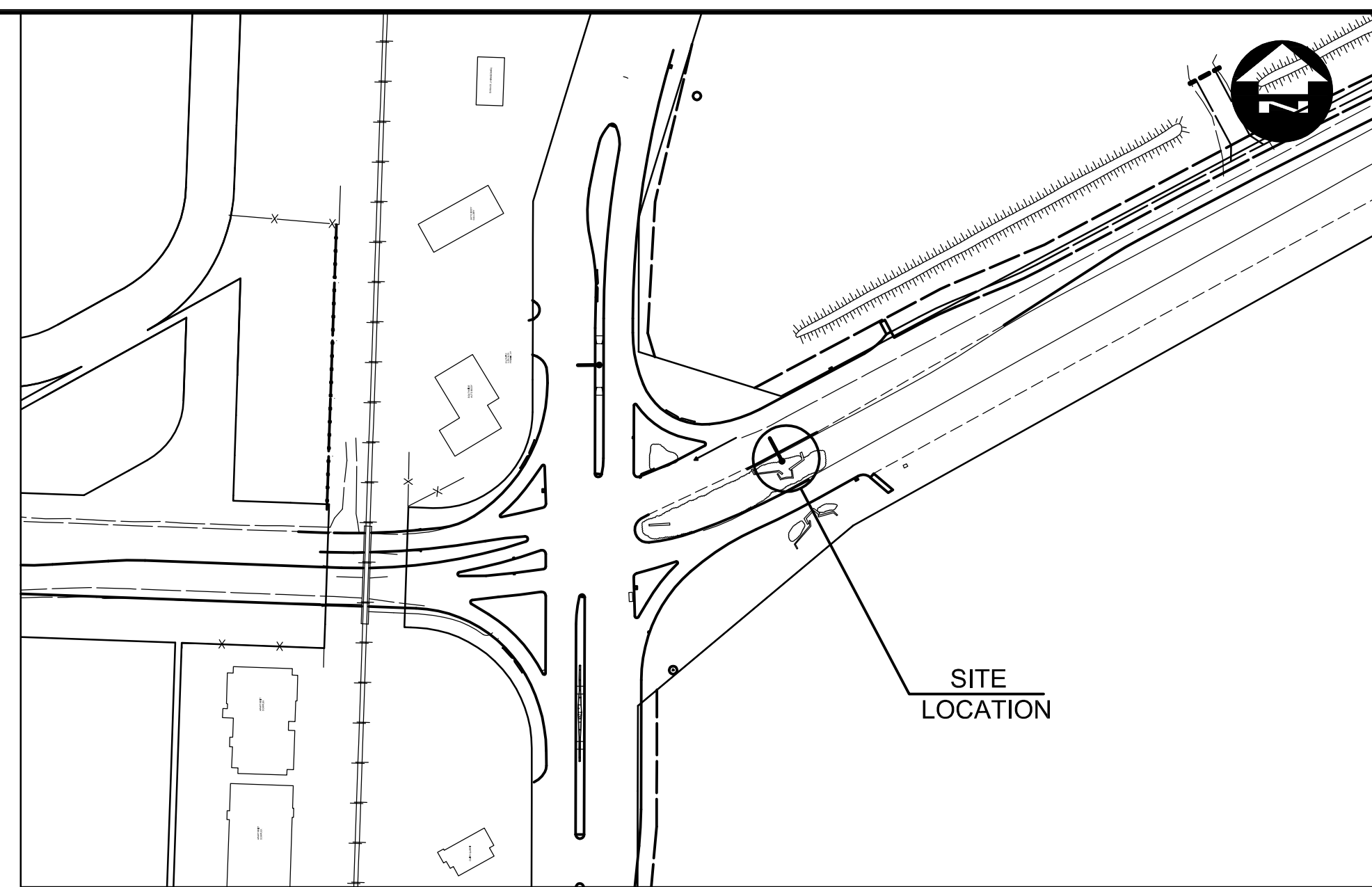
SITE PLAN
1:250



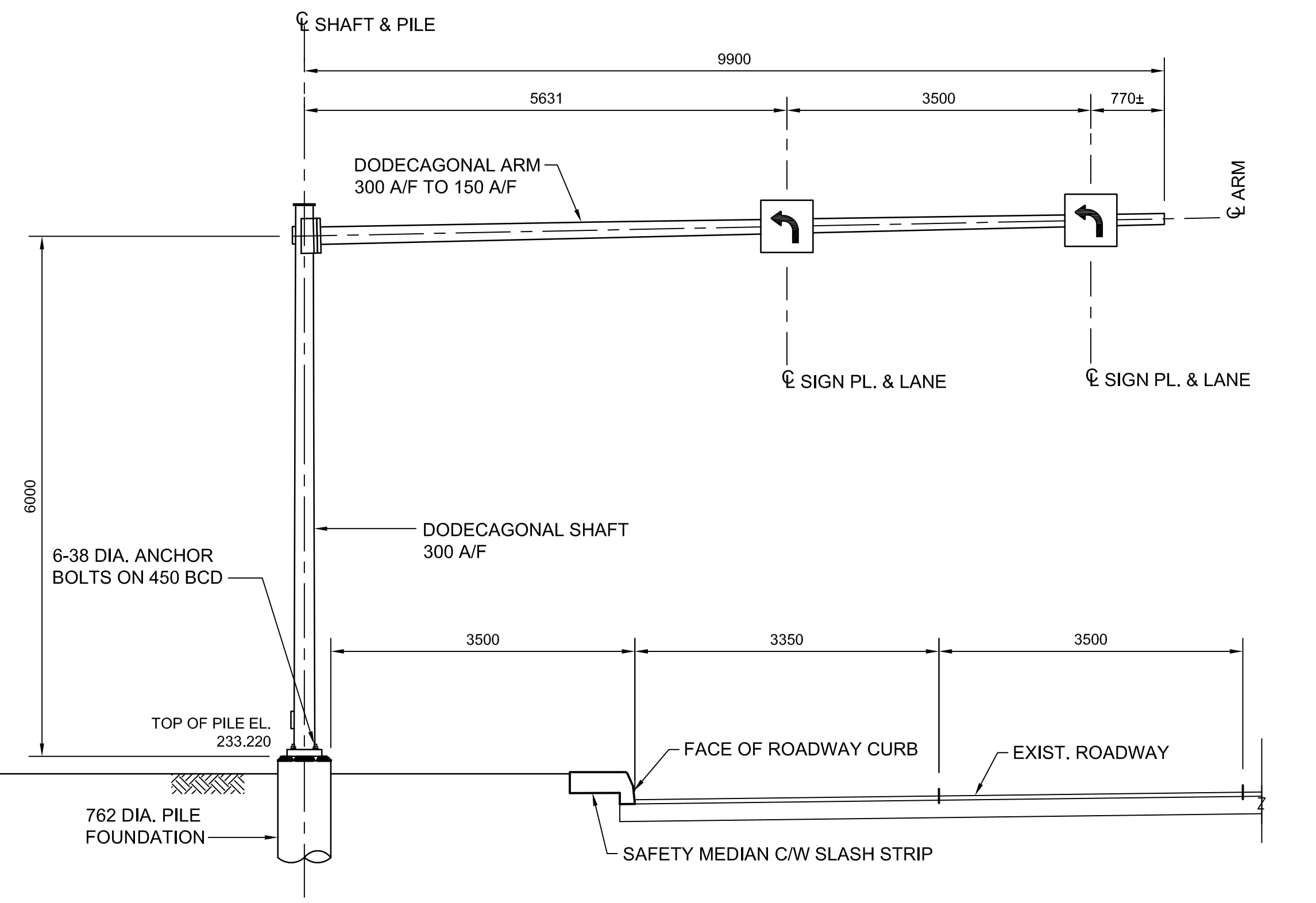
ANCHOR BOLTS LAYOUT



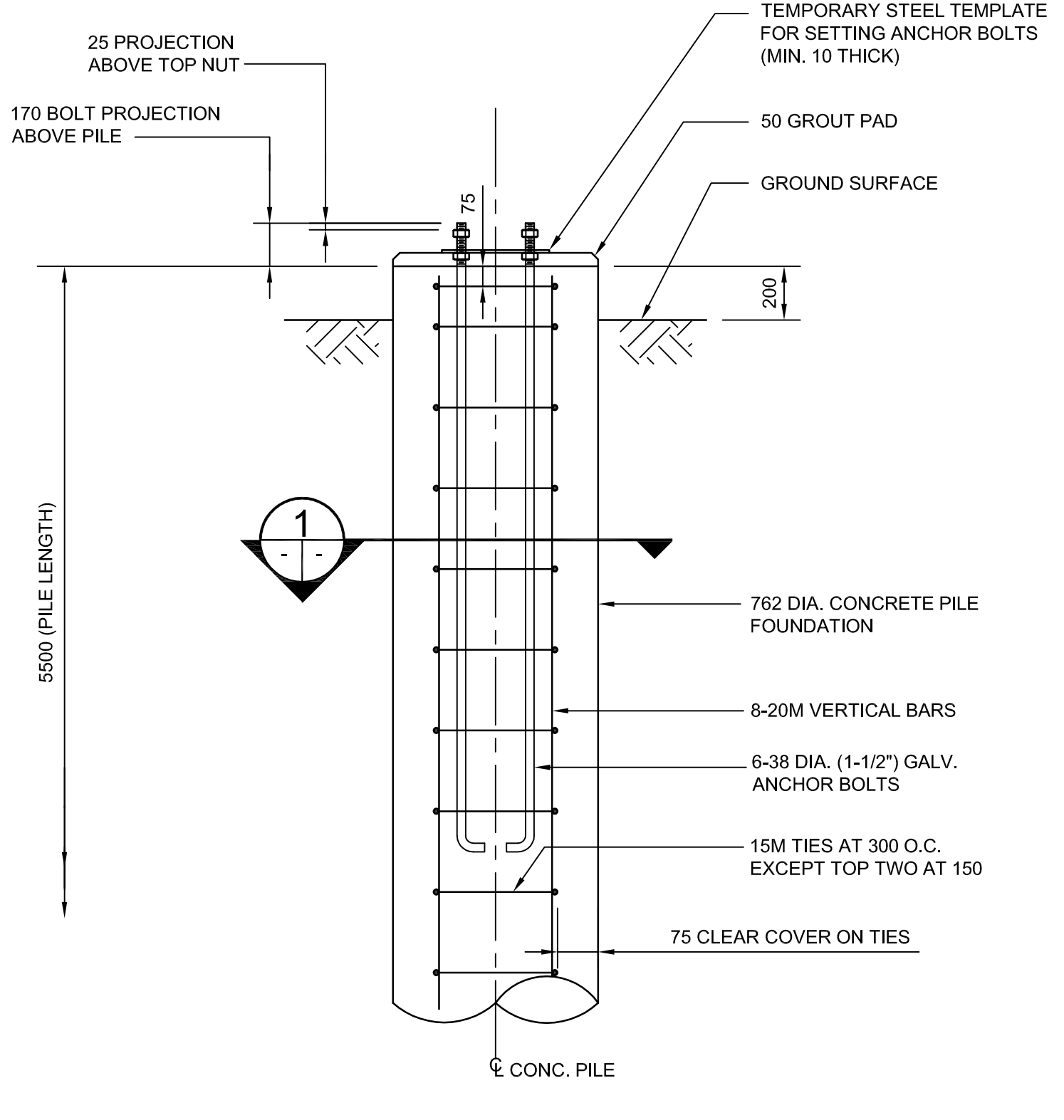
SECTION
1:20



KEY PLAN



SITE ELEVATION - LOOKING WEST
1:50 OVERHEAD SIGN SUPPORT STRUCTURE NO. S752



CONCRETE PILE FOUNDATION DETAIL
1:20

PILE CONSTRUCTION NOTES

- EXCAVATION**
 - CONTRACTOR SHALL EXCAVATE USING HYDRO JET.
 - CONTRACTOR SHALL NOT DAMAGE EXISTING BRICK WALLS AND SHRUBS.
- REINFORCING STEEL**
 - CSA G30.18 GR. 400W
 - VERTICAL BARS FULL LENGTH OF PILE
 - HOT DIP GALVANIZED
- ANCHOR BOLTS**
 - CSA G40.21 GR. 300W
 - 6-38 (1-1/2") DIA. x 1500 LONG + 150 HOOK
 - EACH BOLT C/W 2 NUTS & 2 WASHERS
 - TOP 300 THREADED
 - HOT DIP GALVANIZED FULL LENGTH
 - BCD = BOLT CIRCLE DIAMETER TO CENTRE 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.
- TOP 1.5 m OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE).
- CONTRACTOR SHALL REMOVE THE ANCHOR SETTING 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 = 0.40
 - AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-04 (4-7%)
 - CEMENT - TYPE HS OR HSB, HIGH SULPHATE RESISTANT.

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.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	HYDRO	150 mm W.M.	WATERMAIN	150 mm W.M.
300 LDS	LAND DRAINAGE SEWER	300 LDS	MTS	M.T.S.	MTS	300 mm L.D.S.	HYDRANT	300 mm L.D.S.
250 WWS	WASTE WATER SEWER	250 WWS		CONCRETE		250 mm W.W.S.	VALVE	250 mm W.W.S.
	MANHOLE			ASPHALT				
	CATCH BASIN			PLANING				
	CURB INLET			SIDEWALK				
	JUNCTIONS			PAVING STONES				
	CULVERT			PARTIAL DEPTH REPAIR				
100 GAS	GAS	100 GAS		PROPERTY LINE				
				SURVEY BAR				
				CURB RAMP				

UNDERGROUND STRUCTURES SUPPLY, U/G STRUCTURES COMMITTEE DATE: _____ 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.	B.M. 654271 N 5517192.470 E 632610.651 ELEV. 233.084	DESIGNED BY CDW	ENGINEER'S SEAL PROVINCE OF MANITOBA ORIGINAL STAMPED BY S.S. RIHAL 2011/06/22 REGISTERED PROFESSIONAL ENGINEER	THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT Winipeg	BISON DRIVE & PEMBINA HIGHWAY INTERSECTION IMPROVEMENTS	CITY DRAWING NUMBER P-3327-23
		DRAWN BY APH				SHEET 23 OF 24
		CHECKED BY SSR	RELEASED FOR CONSTRUCTION ORIGINAL SIGNED BY B. KIBBINS DATE 11/06/23	CONSULTANT PROJECT NUMBER 11-4587	S752 CHANCELLOR MATHESON RD. W.B. EAST OF PEMBINA HWY	CONSULTANT DRAWING NUMBER
		APPROVED BY DPK				DATE 2011/06/23
		HOR. SCALE VERTICAL				