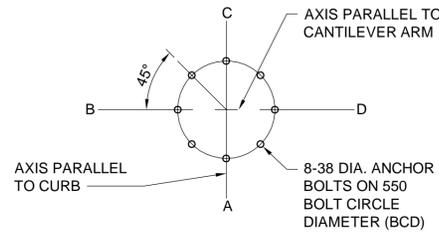
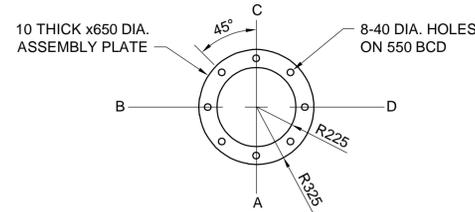


SITE PLAN
SCALE 1:250



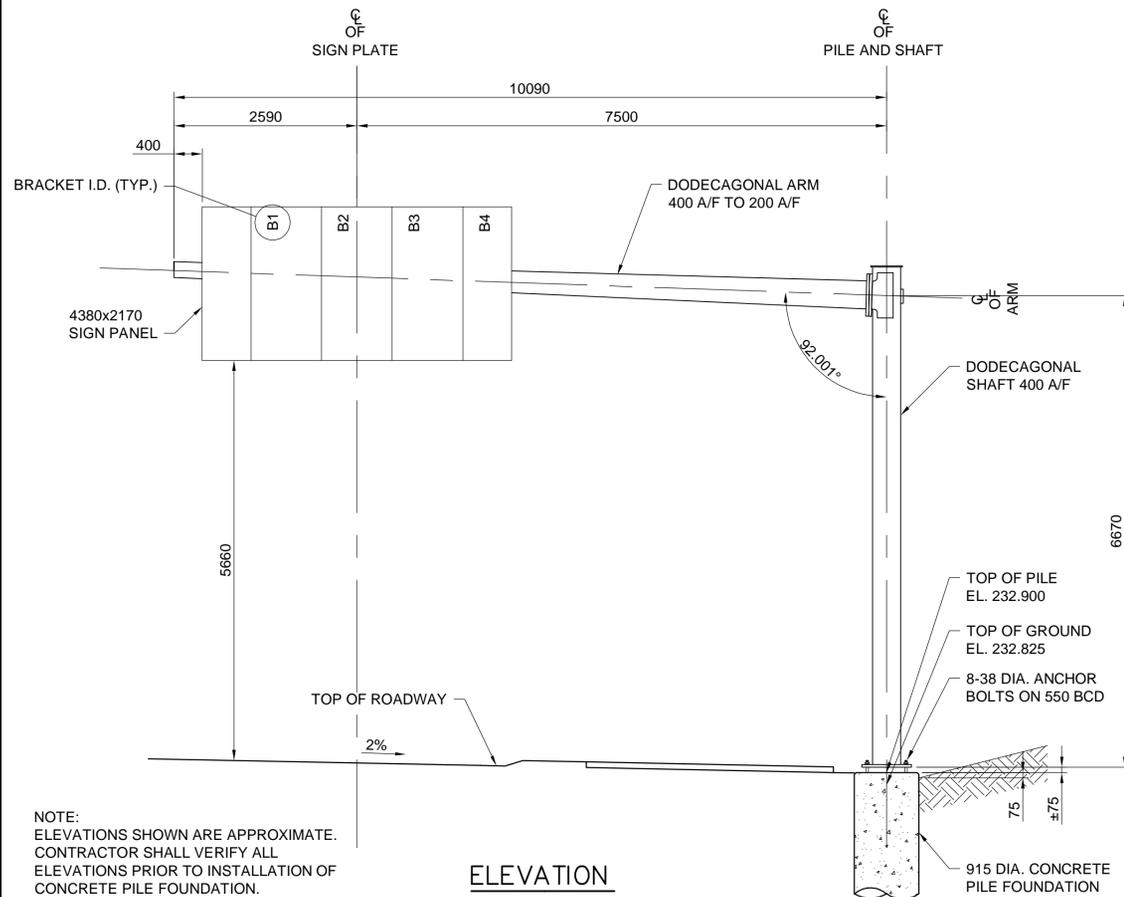
ANCHOR BOLTS LAYOUT
SCALE 1:20



ANCHOR BOLT ASSEMBLY TEMPLATE
SCALE 1:20

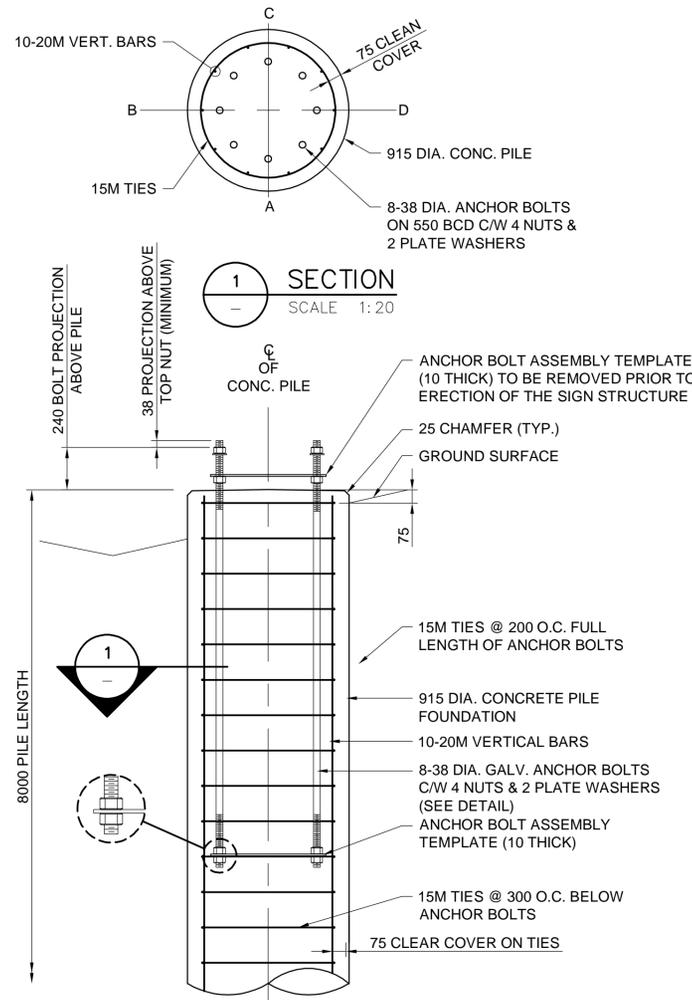


KEY PLAN
SCALE N.T.S.



ELEVATION
SCALE 1:50

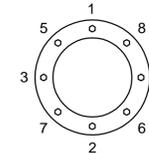
NOTE:
ELEVATIONS SHOWN ARE APPROXIMATE.
CONTRACTOR SHALL VERIFY ALL
ELEVATIONS PRIOR TO INSTALLATION OF
CONCRETE PILE FOUNDATION.



CONCRETE PILE FOUNDATION DETAIL FOR S797
SCALE 1:20

PILE CONSTRUCTION NOTES:

- REINFORCING STEEL**
 - CSA G30.18 GR. 400W
 - VERTICAL BARS FULL LENGTH OF PILE
 - HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A767
- ANCHOR BOLT**
 - ASTM F1554 GR.55 (380 MPa)
 - 8-38 DIA. ANCHOR BOLTS 2.0m LONG
 - EACH BOLT C/W 4 NUTS AND 2 PLATE WASHERS (SEE PLATE WASHER DETAIL FOR MK. 14)
 - TOP 300 THREADED UNC CLASS 2A
 - BOTTOM 100 THREADED UNC CLASS 2A
 - HOT DIP GALVANIZED FULL LENGTH, IN ACCORDANCE WITH ASTM A153 CLASS C
 - B.C.D. = BOLT CIRCLE DIAMETER TO CENTRE OF BOLT GROUP
 - ANCHOR BOLTS SHALL BE ALIGNED WITH TEMPORARY STEEL TEMPLATES. PLACEMENT OF ANCHOR BOLTS AND CONCRETE WITHOUT THE TEMPLATES WILL NOT BE PERMITTED.
 - CONTRACTOR SHALL REMOVE THE TOP ANCHOR BOLT SETTING TEMPLATE, NUTS AND FORM, FOLLOWING A MINIMUM 24 HOUR CONCRETE CURING PERIOD.
 - FOLLOWING INSTALLATION OF THE STEEL STRUCTURE, TIGHTEN THE LOWER LEVELING NUTS AND UPPER ANCHOR NUTS TO A SNUG-TIGHT CONDITION, FOLLOWED BY 1/3 NUT ROTATION (+20°/-0°) OF THE UPPER ANCHOR NUTS.
 - ANCHOR BOLTS SHALL BE TIGHTENED USING A STAR PATTERN TIGHTENING SEQUENCE.



- FORM TOP OF PILE WITH A TUBULAR FORM (SONOTUBE):**
 - 1m FOR DRILLED SHAFTS
 - 1.5m FOR HYDRO-EXCAVATED SHAFTS

4. 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, C-1
- MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS = 35 MPa
- MAXIMUM WATER/CEMENT RATIO = 0.40
- AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-14 (4-7%)
- CEMENT IN ACCORDANCE WITH CSA A23.1-14

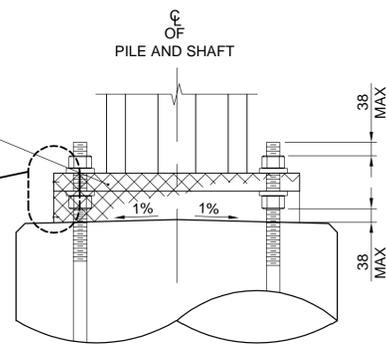
WARNING:

- 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.

1/2" 18F STAINLESS STEEL RODENT SCREEN FASTENED WITH SELF-TAPPING SCREWS. SEE SPECIFICATION FOR DETAILS.

#8-1/2" LONG SS SELF-TAPPING SCREW C/W SS WASHER AT 200 O/C, FULL CIRCUMFERENCE OF BASE PLATE

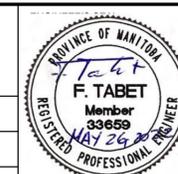
#8-5/8" LONG SS SELF-TAPPING SCREW C/W SS NUT, 2 FLAT SS WASHERS, AND SS LOCK WASHER AT BOTTOM OF RODENT SCREEN SPLICE LAP



PILE TOP DETAIL
SCALE 1:10



B.M. ELEV.		DESIGNED BY		CHECKED BY	
		CC		FT	
		DRAWN BY		APPROVED BY	
		KC		EBL	
HOR. SCALE:		AS		RELEASED FOR CONSTRUCTION BY:	
VERTICAL:		NOTED			
NO.	REVISIONS	DATE	BY	DATE	2022-05-26
0	ISSUED FOR TENDER	22/05/26	FT		



THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

2022 REGIONAL STREET RENEWAL PROGRAM
UNIVERSITY CRESCENT FROM
THATCHER DRIVE TO PEMBINA HIGHWAY

CITY DRAWING NUMBER
S-797-22-01
SHEET 10 OF 11

S797 NB UNIVERSITY CR NORTH OF WEDGEWOOD DR
OVERHEAD SIGN SUPPORT STRUCTURE
PLAN, SECTION AND DETAILS

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