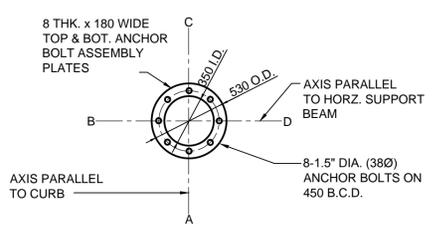


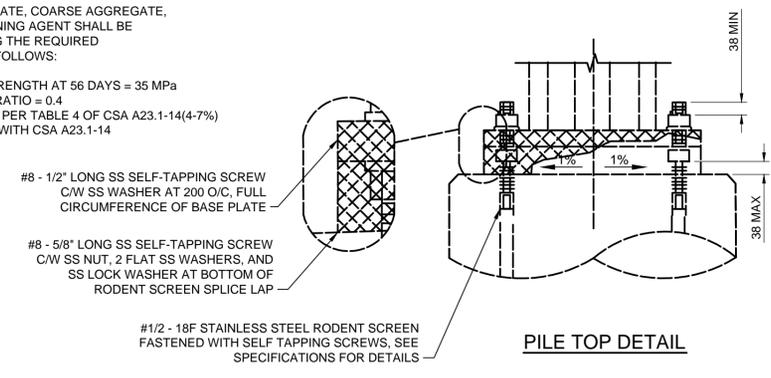
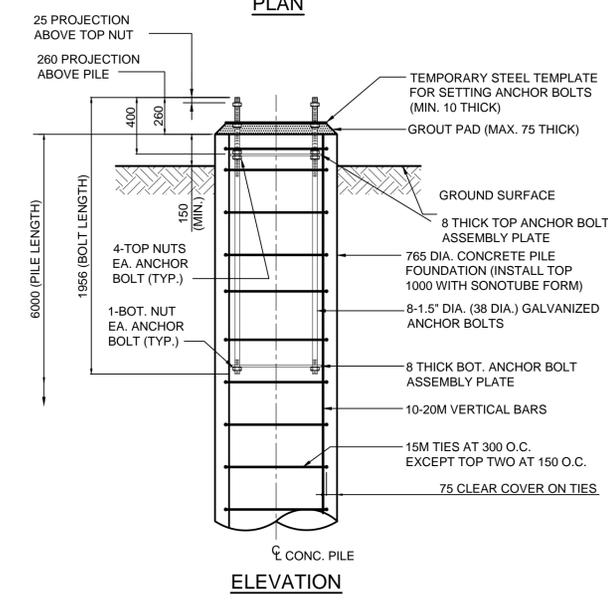
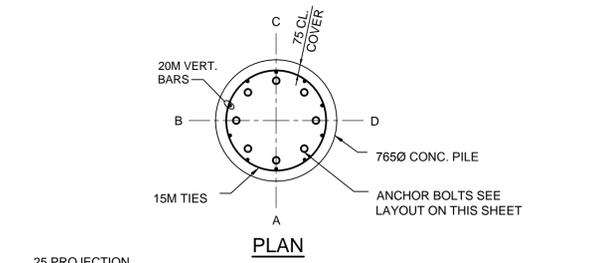
3
13
ELEVATION - LOOKING SOUTH
1:75 OVERHEAD SIGN SUPPORT STRUCTURE NO. S786

PILE CONSTRUCTION NOTES

- REINFORCING STEEL**
 - CSA G30.12 GR. 400W
 - VERTICAL BARS FULL LENGTH OF PILE
 - HOT DIP GALVANIZED
- ANCHORS BOLTS**
 - ASTM F1554, GRADE 55
 - 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 1/4 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 A23.1-14(4-7%)
 - CEMENT - IN ACCORDANCE WITH CSA A23.1-14



ALIGNMENT TABLE - CONTROL			
Line #	Length	Start Point (N,E)	End Point (N,E)
L1	477.367	5521757.664, 640253.761	5522234.944, 640244.618



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

150 WM	WATERMAIN	150 WM	HYDRO	150 WM
⊕	HYDRANT	⊕	M.T.S.	⊕
⊕	VALVE	⊕	CONCRETE	⊕
⊕	LAND DRAINAGE SEWER	⊕	MILL AND FILL OVERLAY	⊕
⊕	WASTE WATER SEWER	⊕	CONCRETE SIDEWALK	⊕
⊕	MANHOLE	⊕	BOREHOLE	⊕
⊕	CATCH BASIN/CATCH PIT	⊕	SEEDING	⊕
⊕	CURB INLET	⊕	PROPERTY LINE	⊕
⊕	CURB RENEWAL	⊕	SURVEY BAR	⊕
⊕	GRAVEL	⊕	ELEVATION	⊕
⊕	GAS	⊕	SIDEWALK DETECTABLE	⊕
⊕	EXISTING	⊕	LEGEND-PLAN	⊕
⊕	PROPOSED	⊕	EXISTING	⊕
⊕	LEGEND-PLAN	⊕	PROPOSED	⊕

LOCATION APPROVED UNDERGROUND STRUCTURES
SUPV. 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. ELEV.	NO.	REVISIONS	DATE	BY
	1	ISSUED FOR TENDER	17.06.16	
	0	ISSUED FOR REVIEW	17.06.02	

Stantec
500 - 311 Portage Avenue, Winnipeg MB
www.stantec.com

DESIGNED BY: H.M.V. CHECKED BY: K.S.A.
DRAWN BY: G.P. APPROVED BY:
HOR. SCALE: AS NOTED RELEASED FOR CONSTRUCTION:
VERTICAL: DATE: 2017.05.01 DATE:

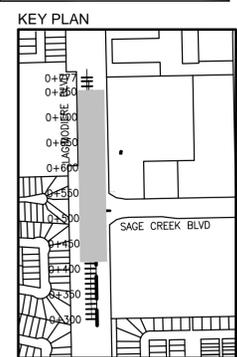
ENGINEER'S SEAL
CONSULTANT DRAWING NO. C502

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

2017 REGIONAL STREET PROGRAM
LAGIMODIERE BOULEVARD
S786 OVERHEAD SIGN LOCATION AND DETAILS

SHEET 13 OF 15
CAD FILE DRAWING NUMBER 07270c-50l-xxx.dwg
CITY DRAWING NUMBER P-3484-13

APEGN
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301



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