



NOTE:

- CONTRACTOR TO PROVIDE DRAWINGS AND DESIGN NOTES FOR BOTH MSE AND DURAHOLD PRECAST RETAINING WALLS, LEVELLING PADS, ALL TYPES OF ASSOCIATED BACKFILL, AND ANCHORAGES AND DRAINAGE FOR BOTH RETAINING WALL SYSTEMS. CONTRACTOR TO CONFIRM LEVELLING AND AND FILL REQUIREMENTS WITH GEOTECHNICAL ENGINEER, PLAN GEOMETRY AND T/O WALL ELEVATION TO BE AS SHOWN IN THE DRAWINGS. RETAINING WALL DRAWINGS AND DESIGN NOTES TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
- CONTRACTOR TO COORDINATE THE PHASING OF THE RETAINING WALLS AND THE TEMPORARY GRADE SEPARATION WALL AND DESIGN ANY CONNECTIONS REQUIRED.
- REFER TO SHEET 5 FOR TEMPORARY GRADE SEPARATION WALL.

LINE TYPE REPRESENTS CHAIN LINK FENCE ANCHORED TO FACE OF WALL. REFER TO SHEET 49 FOR EXTENTS TYP.

DURAHOLD MODULAR RETAINING WALL 'B' SHOWN SHADED C/W LEVELLING PAD AS DETERMINED BY CONTRACTOR. WALL 'B' TO FOLLOW WATERWAY EDGE OF A.T. TRAIL.

EXTEND 150Ø DRAINAGE PIPE INTO RIPRAP. COVER END OF PIPE WITH GEOTEXTILE. (TYP. OF 6)

ALUMINUM PEDESTRIAN RAILING ANCHORED TO THE TOP OF THE PRE-CAST RETAINING WALL. REFER TO SHEET 49 FOR EXTENTS

MSE PRECAST RETAINING WALL 'C' SHOWN SHADED C/W LEVELLING PAD. WALL 'C' TO SPAN BETWEEN WINGWALLS OF BRIDGE.

MSE PRECAST RETAINING WALL 'A' CONTINUOUS BELOW BRIDGE

150Ø DRAINAGE PIPE BEHIND ABUTMENT WITHIN CLEAN DRAINING STONE C/W WITH GEOTEXTILE TYP.

150Ø DRAINAGE PIPE BEHIND ALL RETAINING WALLS FOR FULL LENGTH OF WALLS C/W WITH GEOTEXTILE. PROVIDE MIN 300 CLEAN DRAINING STONE ALL AROUND TYP.

CHAIN LINK FENCE ANCHORED TO FACE OF WALL. REFER TO SHEET 49 FOR EXTENTS TYP.

MSE PRECAST RETAINING WALL 'A' SHOWN SHADED C/W LEVELLING PAD. WALL 'A' TO FOLLOW ORIENTATION OF A.T. TRAIL.

MSE PRECAST RETAINING WALL SHOWN SHADED TO FOLLOW WATERWAY EDGE OF A.T. TRAIL.

RETAINING WALL LAYOUT – NORTH EMBANKMENT

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 Date: 2012 Jun 31 4:08pm Login: Friesen, Vince

APEGM
 Certificate of Authorization
 Stantec Consulting Ltd.
 No. 1301 Date: _____

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

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.

NO.	REVISIONS	DATE	BY	B.M. ELEV.
2	REVISED PER ADDENDUM No.2	12.01.31	K.S.A.	
1	REVISED PER ADDENDUM No.1	12.01.18	K.S.A.	
0	ISSUED FOR TENDER	11.12.15	K.S.A.	

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DESIGNED BY: K.S.A.	CHECKED BY: K.S.A.
DRAWN BY: V.J.F.	APPROVED BY: B.J.W.
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION: _____
VERTICAL: _____	DATE: DEC. 15, 2011

ENGINEER'S SEAL
 CONSULTANT DRAWING NO. S-801

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

STURGEON ROAD
 BRIDGE REPLACEMENT
 PORTAGE AVENUE TO HALLONQUIST DRIVE
 NORTH BANK MODULAR BLOCK
 RETAINING WALL LAYOUT

SHEET 57 OF 82
CAD FILE DRAWING NUMBER 31590s-801-767.dwg
CITY DRAWING NUMBER B120-12-057