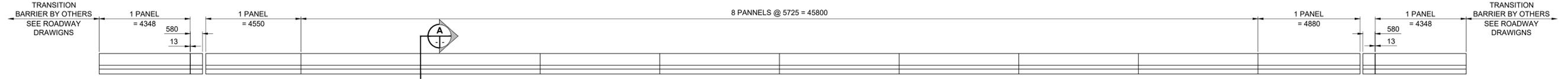
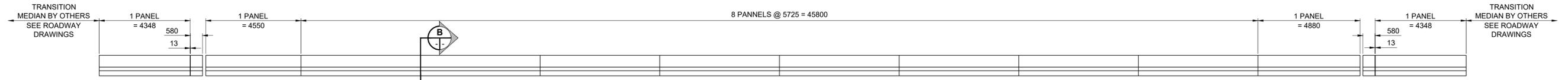


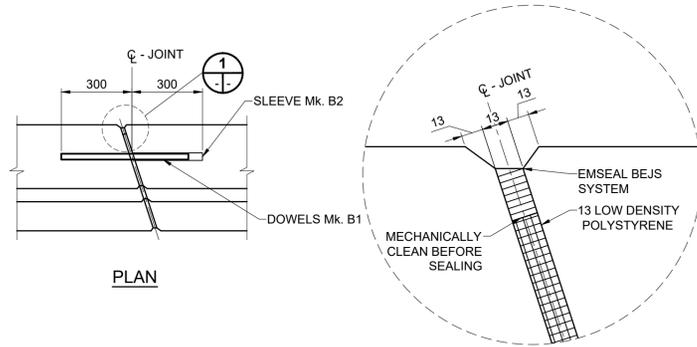
B50.A1 - 594mm x 841mm



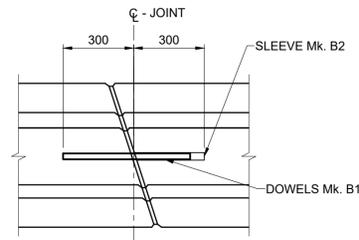
**SHOULDER BARRIER ELEVATION**  
EAST BARRIER SHOWN WEST BARRIER SIMILAR  
SCALE 1:100



**MEDIAN BARRIER ELEVATION**  
SCALE 1:100



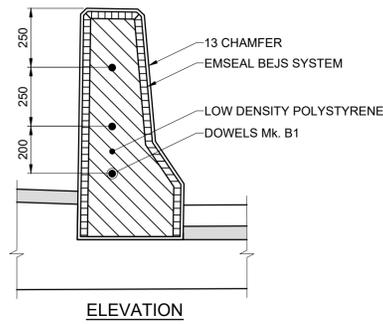
PLAN



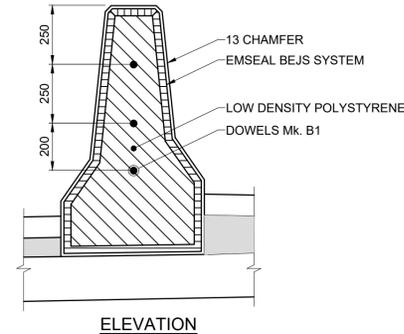
PLAN

BILL OF MISCELLANEOUS METAL						
MARK	NO.	DESCRIPTION	SIZE	COMPONENT MASS (kg)	MASS PER UNIT (kg)	TOTAL MASS (kg)
B1	117	25Ø X 550 LONG SS BAR	AS DESCRIBED	2.19	2.19	256.23
B2	117	32Ø X 300 LONG SS EXPANSION SLEEVE	AS DESCRIBED	0.09	0.09	10.53

**JOINT DETAIL (TYP)**  
SCALE: 1:2



ELEVATION



ELEVATION

**SECTION - TYPICAL BARRIER JOINT**  
SCALE: 1:15

**SECTION - TYPICAL MEDIAN JOINT**  
SCALE: 1:15

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BID OPPORTUNITY No. 602-2018



**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

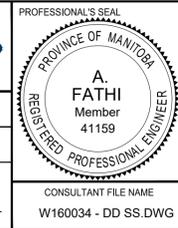
**LOCATION APPROVED**  
UNDERGROUND STRUCTURES

Supr. U/G Structures Committee

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	ISSUED FOR TENDER	18/09/04	BAP
A	ISSUED FOR 95% DESIGN REVIEW	18/08/07	BAP

<b>MORRISON HERSHFIELD</b>	
DESIGNED BY: AF	CHECKED BY: YM
DRAWN BY: ALP	APPROVED BY: BE
HOR SCALE: AS SHOWN	VERT SCALE: AS SHOWN
DATE:	RELEASED FOR CONSTRUCTION: N/A



**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

**EMPRESS STREET PROJECT**  
OVERPASS REHABILITATION WORKS  
SUPERSTRUCTURE  
BARRIER ELEVATION AND JOINT DETAILS

CITY DRAWING NUMBER: P-3494-108  
SHEET 108 OF 168  
DRAWING No. 108 REV B

CONSULTANT FILE NAME: W160034 - DD SS.DWG