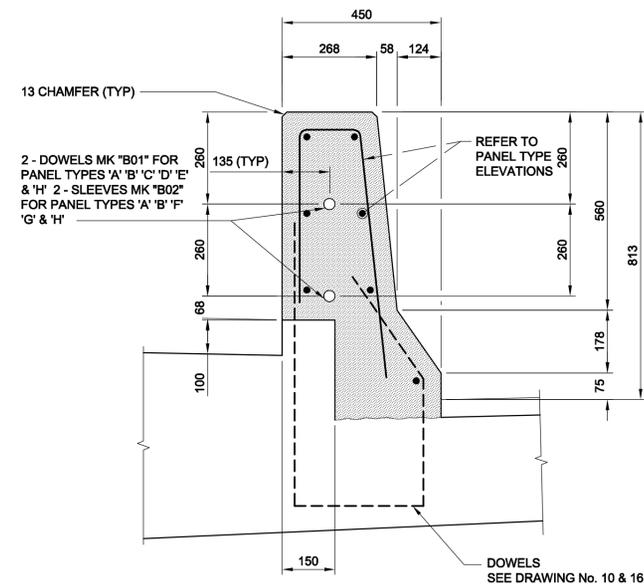
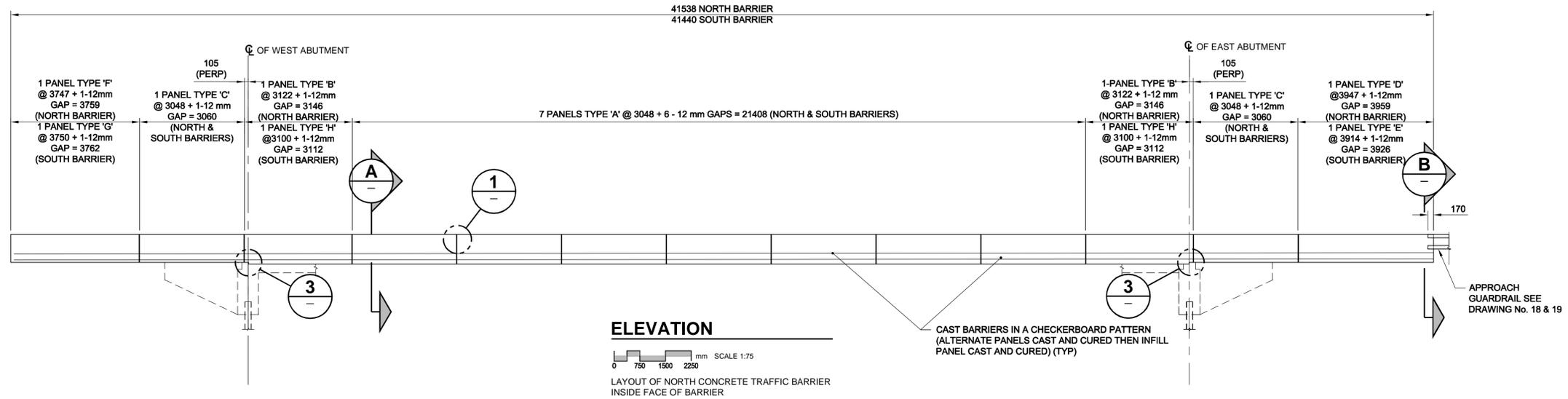


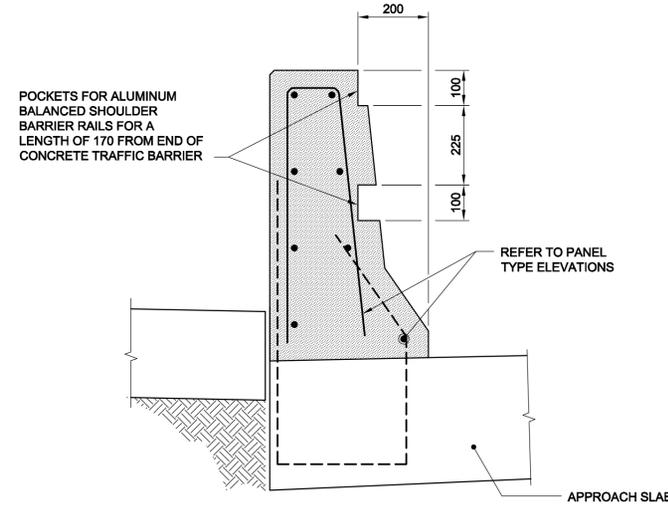
**BILL OF MISCELLANEOUS METAL  
FOR NORTH & SOUTH TRAFFIC BARRIERS**

MARK	QTY	DESCRIPTION	COMPONENT MASS	TOTAL MASS
B01	48	GALVANIZED PLAIN BAR 25Ø x 550 LG	2.18	104.6t
B02	48	EXPANSION SLEEVE 32 OD x 300 LG (GALV)	0.75	36.0t
<b>TOTAL</b>			<b>2.93</b>	<b>140.64t</b>

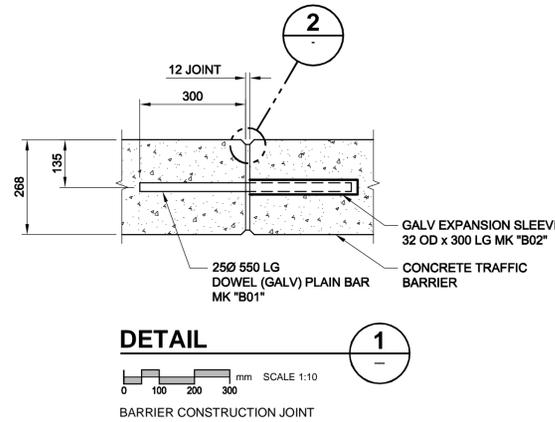
TOTAL VOLUME OF CONCRETE NORTH & SOUTH BARRIERS = 10.8 m³



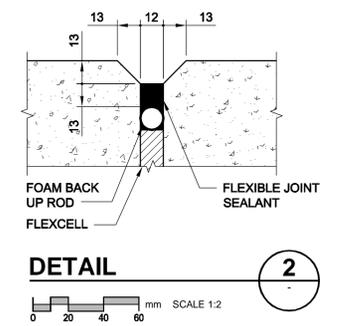
**SECTION A**  
TYP BARRIER SECTION FOR PANEL TYPES 'A', 'C', 'D' & 'E' OPPOSITE HAND SIMILAR



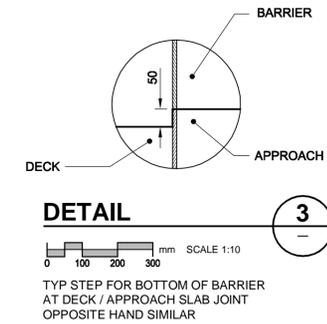
**SECTION B**  
TYP BARRIER SECTION AT END FOR PANEL TYPES 'C' & 'D' OPPOSITE HAND SIMILAR



**DETAIL 1**  
BARRIER CONSTRUCTION JOINT



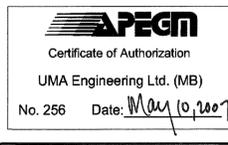
**DETAIL 2**



**DETAIL 3**  
TYP STEP FOR BOTTOM OF BARRIER AT DECK / APPROACH SLAB JOINT OPPOSITE HAND SIMILAR

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

BM 40-012 ELEV 238.149m	UMA   AECOM		PROFESSIONAL'S SEAL
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DESIGNED BY: BLL	CHECKED BY: SBB		
DRAWN BY: CPK	APPROVED BY: BWS		
HOR. SCALE: AS NOTED	VERT. SCALE: AS NOTED	CONSULTANT DRAWING NO. 0265-397-00_01-S-0505_RX.dwg	
ISSUED FOR CONSTRUCTION 07/05/10 DJH	DATE 07/03/23	DATE 07/10/07	
NO. REVISIONS	YYMMDD	BY	



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

**HAMILTON AVENUE BRIDGE REHABILITATION**  
BARRIER CONCRETE AND REINFORCING DETAILS I

CITY DRAWING NUMBER B133-07-13  
SHEET 13 OF 30  
DRAWING No. 13 REV 0

BID OPPORTUNITY NO. 349-2007