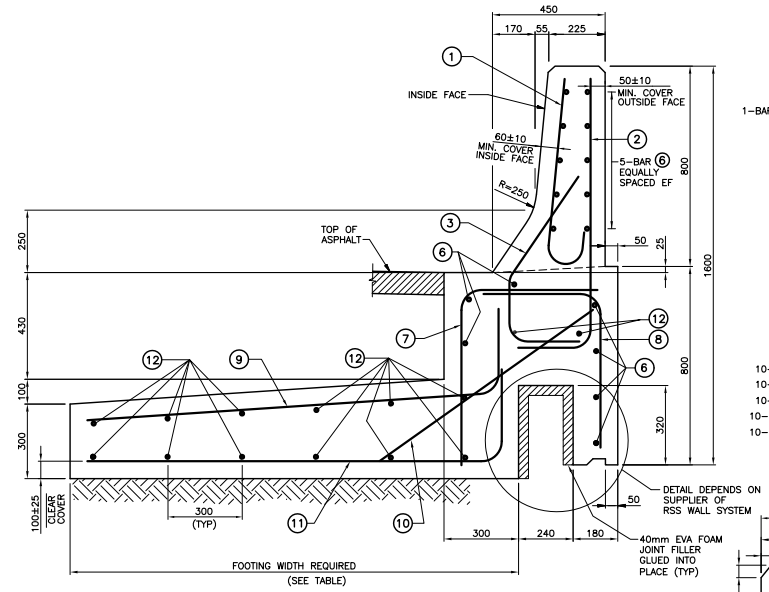
METRIC

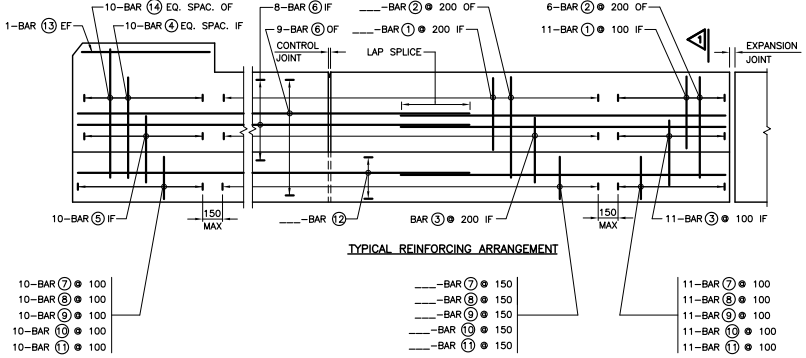
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN

CONT No	
WP No	SHEET

BARRIER WALL WITH RAILING – PL2 ON RSS WALL–GFRP REBAR



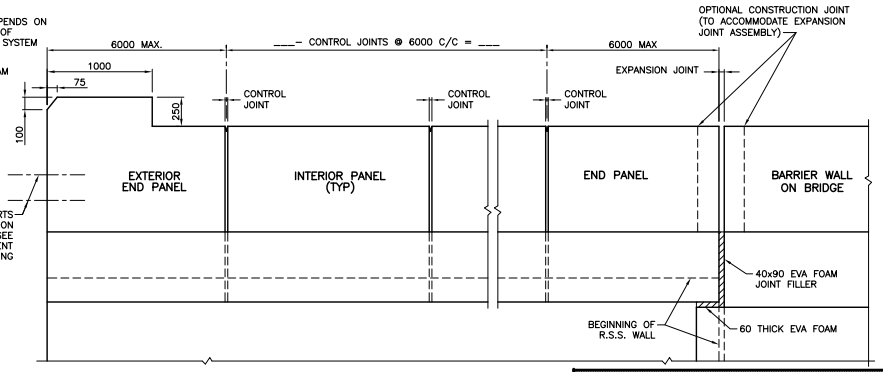
1 BARRIER WALL ON R.S.S. WALL
N.T.S.



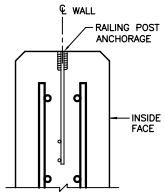
TYPICAL REINFORCING ARRANGEMENT

NOTES:

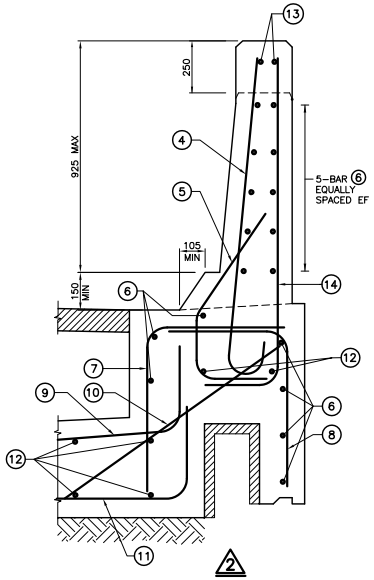
1. RETAINED SOIL SYSTEM WALL, BARRIER WALL AND FOOTING, SHALL BE IN ACCORDANCE WITH THE DESIGNATED SOURCES FOR MATERIALS LIST DSM 9.70.56.
2. CONCRETE COVER TO REINFORCING BAR 70±20mm, EXCEPT AS NOTED.
3. CLASS OF CONCRETE FOR FOOTING 30 MPa.
4. GLASS FIBRE REINFORCED POLYMER(GRFP) SHALL BE GRADE I, SIZE IN THE BAR SCHEDULE INDICATES GRADE AND DESIGNATED BAR DIAMETERS.
5. REINFORCING STEEL SHALL BE GRADE 400W
6. BAR LAP SPLICE FOR HORIZONTAL REINFORCEMENT MUST NOT LAP THROUGH CONTROL JOINT.
7. MINIMUM BAR LAP SPLICE TO BE 700mm, UNLESS OTHERWISE SHOWN.
8. LENGTH OF HORIZONTAL BAR TO SUIT CONTRACTOR'S OPERATIONS. BAR LENGTHS NEED NOT MATCH DISTANCE BETWEEN CONTROL JOINTS.
9. CONTROL JOINT TO BE FORMED.
10. SAWCUTS NOT PERMITTED.
11. CONTROL JOINT FORM HARDWARE NOT TO BE LEFT IN PLACE.
12. OPTIONAL CONSTRUCTION JOINTS TO BE LOCATED WITHIN LIMITS OF CONCRETE DAMS ON DECK OR BALLAST WALL
13. FOOTINGS SHALL HAVE CONSTRUCTION JOINTS AT MAX SPACING OF 12.0M.
14. LEGEND:
    - EF – DENOTES EACH FACE
    - IF – DENOTES INSIDE FACE
    - OF – DENOTES OUTSIDE FACE



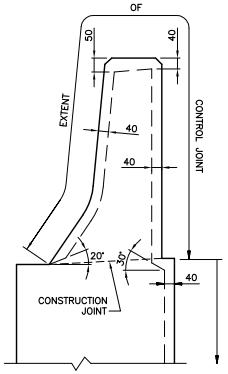
ELEVATION
N.T.S.



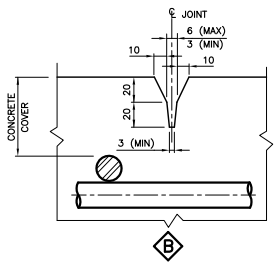
C POST ANCHORAGE DETAIL



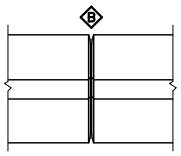
2 BARRIER WALL AT EXTERIOR END PANEL
N.T.S.



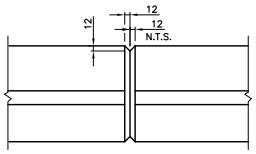
EXTENT OF CONTROL JOINT IN BARRIER WALL



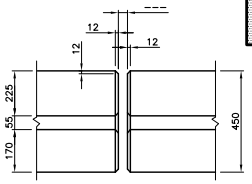
B CONTROL JOINT DETAIL



TYPICAL CONTROL JOINT



TYPICAL OPTIONAL CONSTRUCTION JOINT



TYPICAL EXPANSION JOINT

NOTES TO DESIGNER

1. THE DESIGNER SHALL SHOW DETAIL OF STUB WALL, AS IS COMMONLY REQUIRED, AT THE BEGINNING OF THE RSS WALL.
2. THE FOOTING WIDTH REQUIRED IS BASED ON THE FOOTING LENGTH FOR THIS PROJECT AS PER TABLE FOUND BELOW, AND SHALL BE FILLED IN ON THIS DRAWING BY THE DESIGNER.

	FOOTING LENGTH		
	≤6.0m	6.0m TO 15.0m	>15.0m
	*	**	**
FOOTING WIDTH REQUIRED	2500mm	2250mm	1750mm

* – WITH APPROACH SLAB
** – WITHOUT APPROACH SLAB

3. THIS DRAWING IS NOT SUITABLE FOR ANTICIPATED SETTLEMENT OF UNDERLYING SOIL LARGER THAN 25mm. FOR SUCH CASES, FOLLOW MTO RSS DESIGN GUIDELINES.
4. THE "NOTES TO DESIGNER" SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING OF THE CONTRACT.

BAR MARK	SIZE	SHAPE
①	GI–15M	160, 65
②	GI–15M	280, 1025
③	GI–15M	280, 250, 500, 300
④	GI–15M	160, 65
⑤	GI–15M	250, 240, 530, 300
⑥	GI–15M	STRAIGHT
⑦	GI–15M	650, 570
⑧	GI–15M	570, 650
⑨	GI–15M	3 VARIES, 350
⑩	GI–15M	STRAIGHT
⑪	15M	350 VARIES
⑫	15M	STRAIGHT
⑬	GI–15M	STRAIGHT
⑭	GI–15M	280, 1275

REFER TO 1.1.8 IN THE STRUCTURAL MANUAL FOR PROFESSIONAL ENGINEER STAMPING REQUIREMENTS.

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

STANDARD DRAWING
OCTOBER 2013

SS110–69

BARRIER WALL WITH RAILING – PL2 ON RSS WALL – GFRP REBAR

REVISIONS	DESCRIPTION			
DESIGN	CHK	CODE CHBDC–00	LOAD	DATE
DRAWN	CHK	SITE		DWG

MINISTRY OF TRANSPORTATION, ONTARIO PR–D–707 88–05