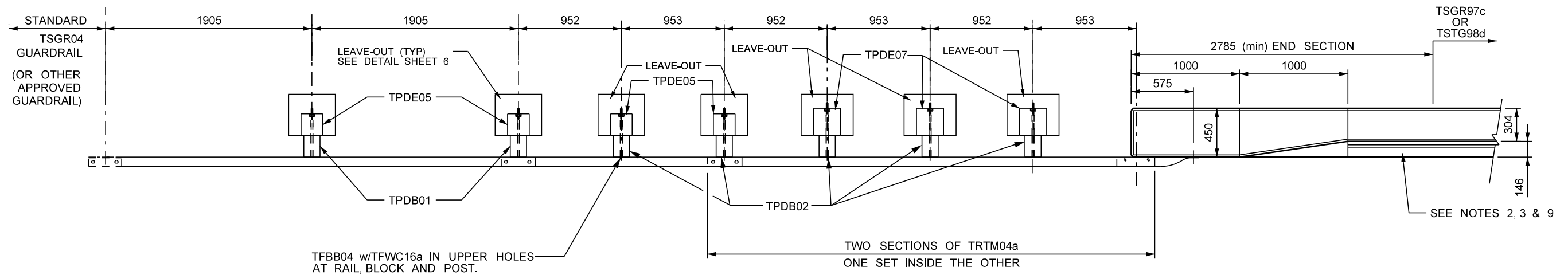


ELEVATION

SCALE 1:40



PLAN

SCALE 1:40

NOTES:

1. ALL SCALES ARE APPROXIMATE.
2. LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY.
3. FORMED OR CUT CONTRACTION JOINTS SHALL BE CREATED AT EACH PLACE WHERE THE BARRIER SHAPE CHANGES, TO MATCH ADJACENT PAVEMENT JOINT SPACING, OR AT A MAXIMUM SPACING OF 8000 mm.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.
5. THE ORIGINAL SEALED AND SIGNED DRAWING IS IN TRAFFIC ENGINEERING.
6. ALL REINFORCING SHALL HAVE MINIMUM 75 mm COVER, UNLESS OTHERWISE NOTED.
7. CONCRETE: CSA A23.1, EXPOSURE CLASS C-1, AIR CONTENT CATEGORY 1, COMPRESSIVE STRENGTH: BARRIER ≥ 45 MPa AND FOOTING ≥ 35 MPa, @ 28 DAYS.
8. SEE SHEETS 7 & 8 FOR REINFORCING DETAILS.
9. TRANSVERSE REINFORCING NOT SHOWN FOR CLARITY.
10. SEE SECTIONS 'A-A', 'B-B', AND 'C-C' FOR BELOW GRADE DESIGN OPTIONS.
11. BLOCKOUT TO BE NAILED TO POST TO PREVENT ROTATION USING 90 mm LONG GALVANIZED NAIL.
12. CUT / GRIND BOLT AS NECESSARY TO FACILITATE ASSEMBLY.
13. HOLES FOR THREADED ROD ANCHORS SHALL BE CORDED AT 2 mm LARGER THAN ANCHOR DIAMETER.
14. STEEL (REBAR) LOCATOR TO BE USED PRIOR TO DRILLING HOLES.

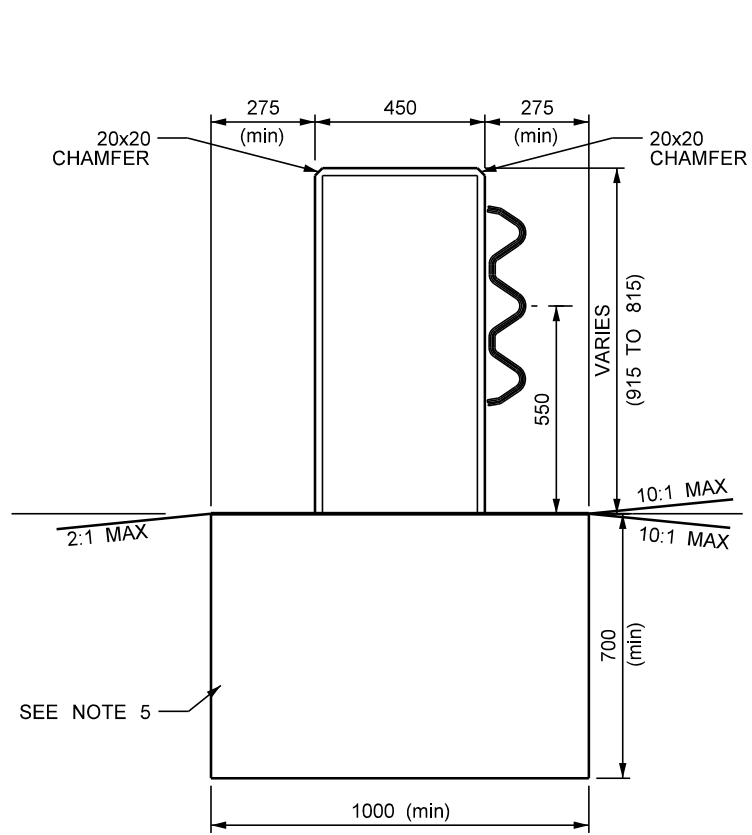
REVISIONS		
DATE	DESCRIPTION	BY



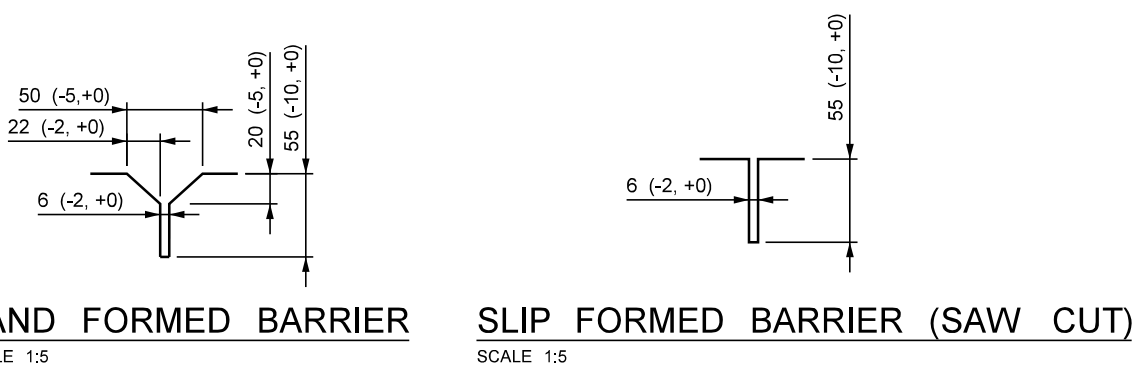
**MANITOBA CONSTRAINED
WIDTH CONSTANT SLOPE
BARRIER - ROADSIDE
NESTED THRIE BEAM
TO TL-4**

SHEET NO: 1 OF 8	DATE: 2020 - 08
DESIGNED BY:	H. LARSEN
DRAWN BY:	L. LIEBRECHT
REVIEWED BY:	N. JOYAL

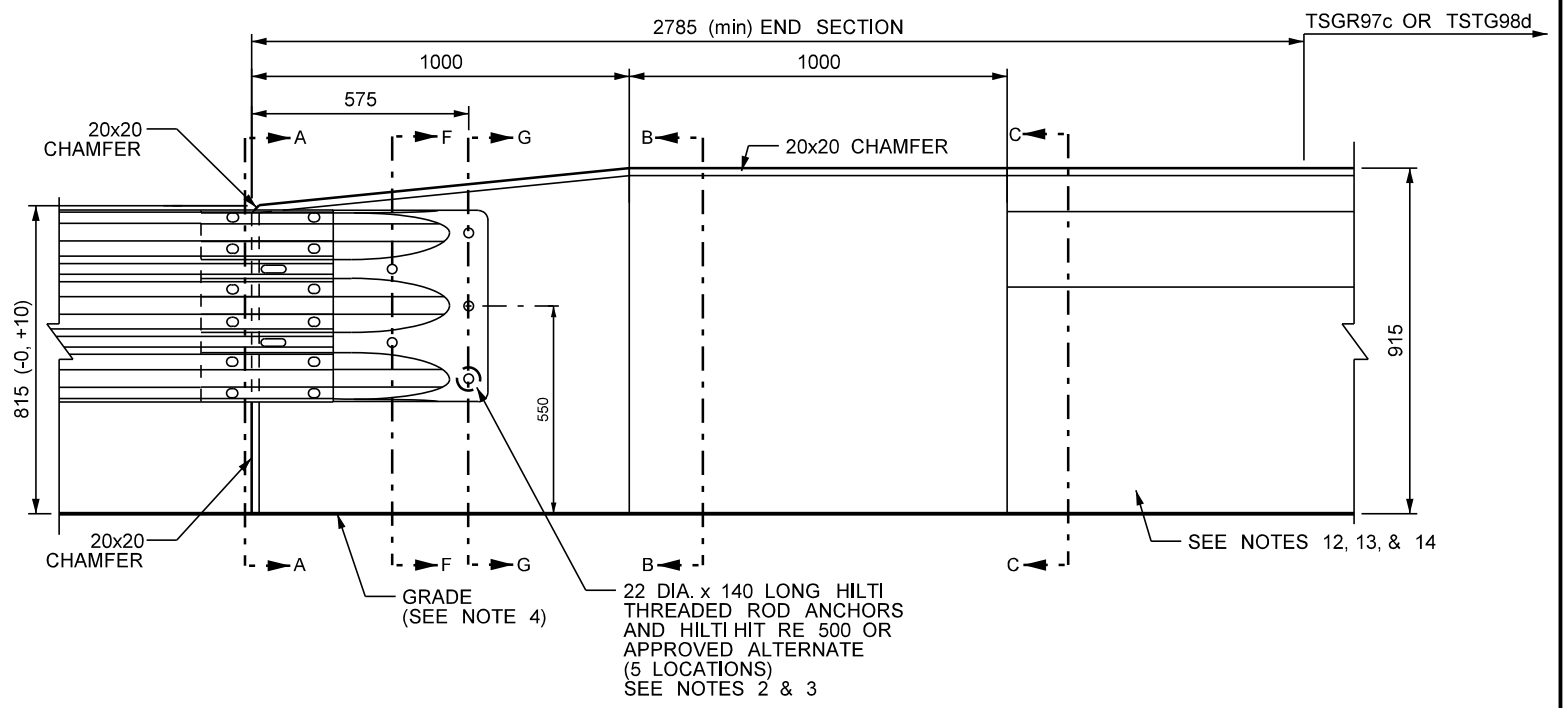
TSTB99c



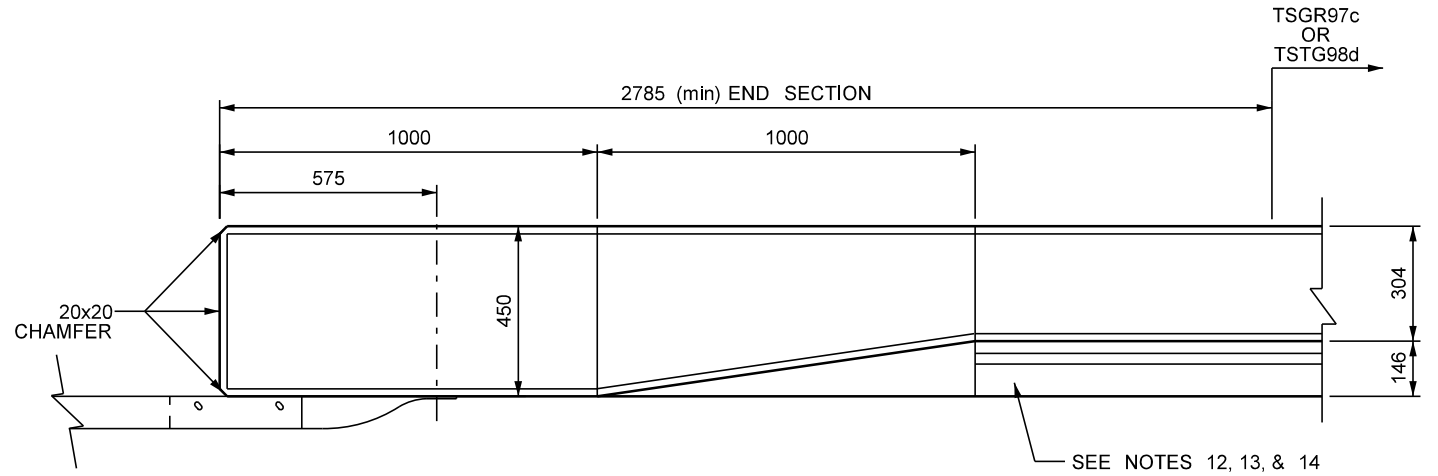
VIEW 'A-A'
SCALE 1:20



CONTRACTION JOINT DETAILS



DETAIL 'H' - ELEVATION VIEW
SCALE 1:20



DETAIL 'H' - PLAN VIEW
SCALE 1:20

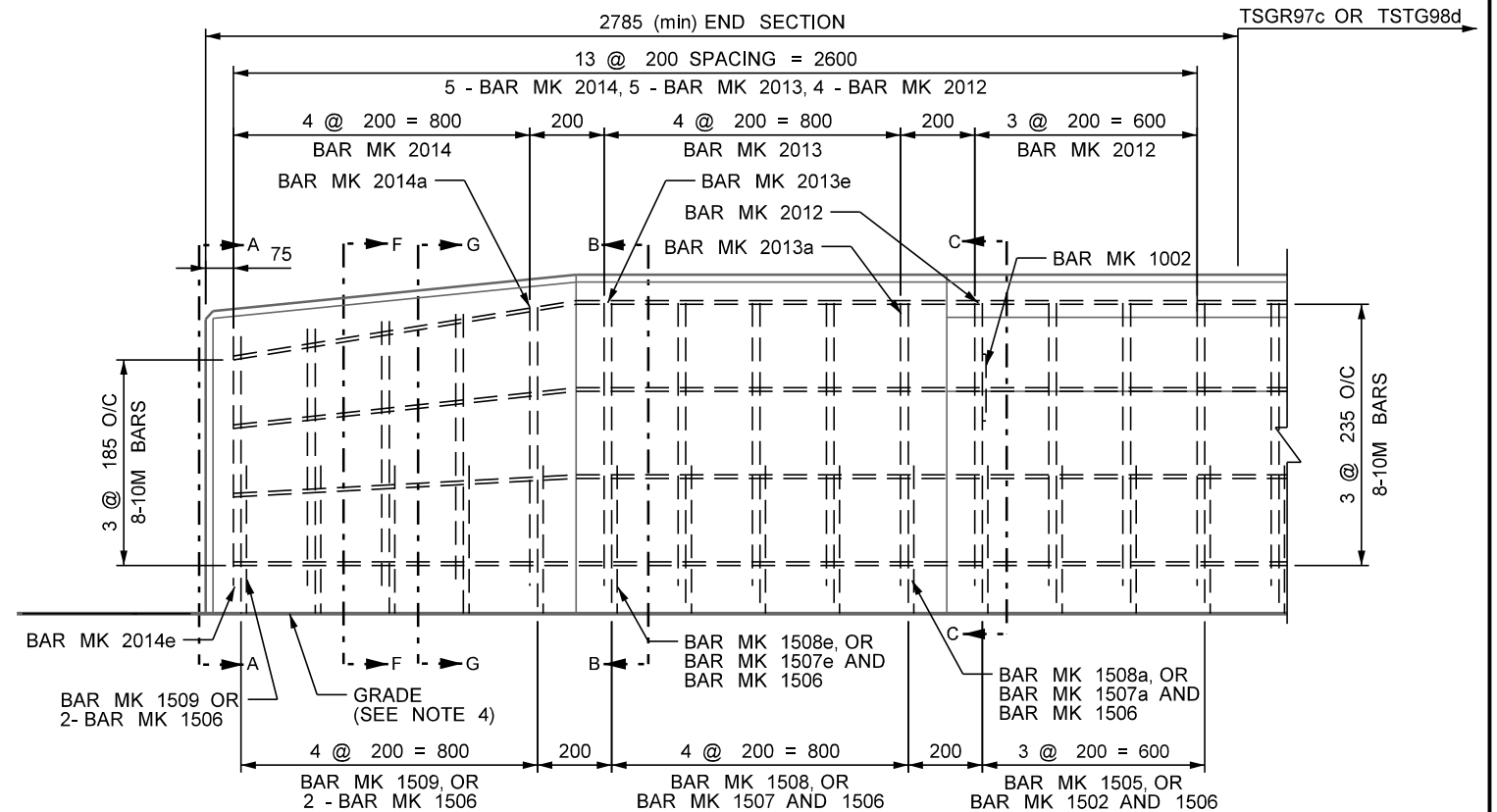
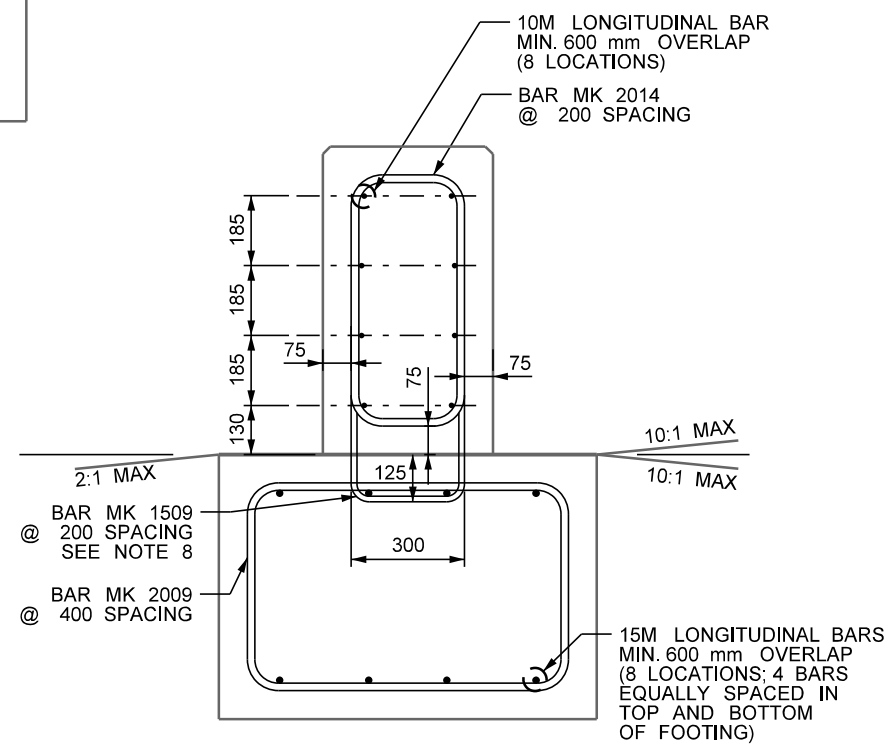
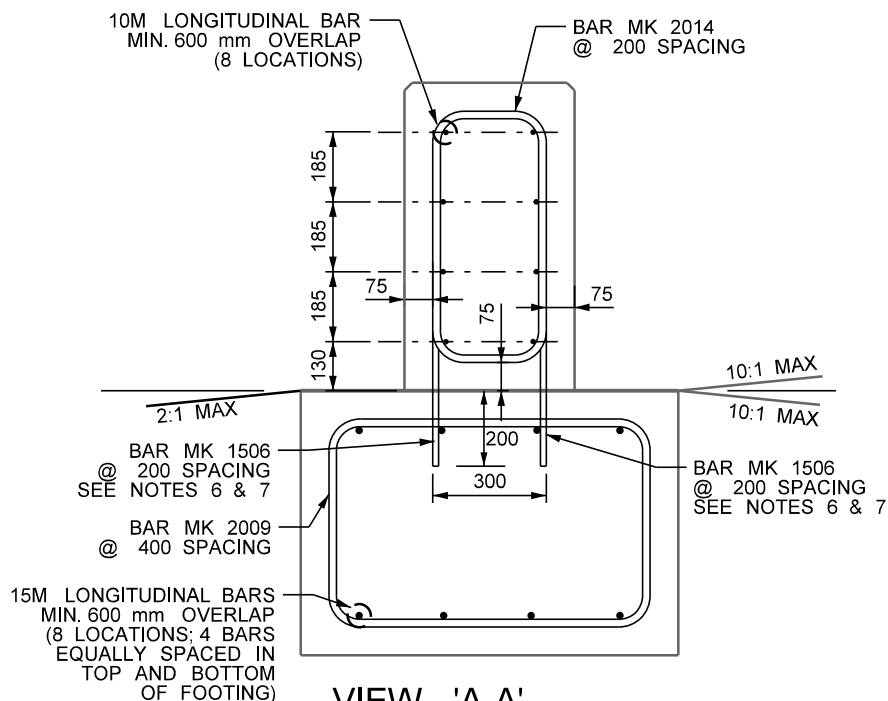
- NOTES:**
- ALL SCALES ARE APPROXIMATE.
 - HOLES FOR THREADED RODS SHALL BE DRILLED HORIZONTAL AT 2 mm LARGER THAN DIAMETER OF THREADED ROD.
 - STEEL (REBAR) LOCATER TO BE USED PRIOR TO DRILLING HOLES.
 - SEE SECTIONS 'A-A', 'B-B' & 'C-C' FOR BELOW GRADE DESIGN OPTIONS.
 - NEW OR EXISTING REINFORCED CONCRETE FOOTING: CSA A23.1, EXPOSURE CLASS C-1, AIR CONTENT CATEGORY 1, COMPRESSIVE STRENGTH ≥ 35 MPa, AT 28 DAYS.
 - HOLES IN FOOTING SHALL BE DRILLED VERTICALLY 2 mm LARGER THAN REINFORCING.
 - HOLES IN FOOTING SHALL BE PREPARED FOR EPOXY (HILTI HIT RE 500, OR APPROVED ALTERNATIVE) AS DIRECTED BY MANUFACTURER.
 - STIRRUP SHALL BE SECURELY ATTACHED TO REBAR.
 - ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE INDICATED.
 - SEE SHEETS 7 & 8 FOR REINFORCING DETAILS.
 - ALL REINFORCING SHALL HAVE MINIMUM 75 mm COVER, UNLESS OTHERWISE INDICATED.
 - LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY.
 - FORMED OR CUT CONTRACTION JOINTS SHALL BE CREATED AT EACH PLACE WHERE THE BARRIER SHAPE CHANGES, TO MATCH ADJACENT PAVEMENT JOINT SPACING OR AT A MAXIMUM SPACING OF 6000 mm.
 - TRANSVERSE REINFORCING NOT SHOWN FOR CLARITY.

REVISIONS		
DATE	DESCRIPTION	BY



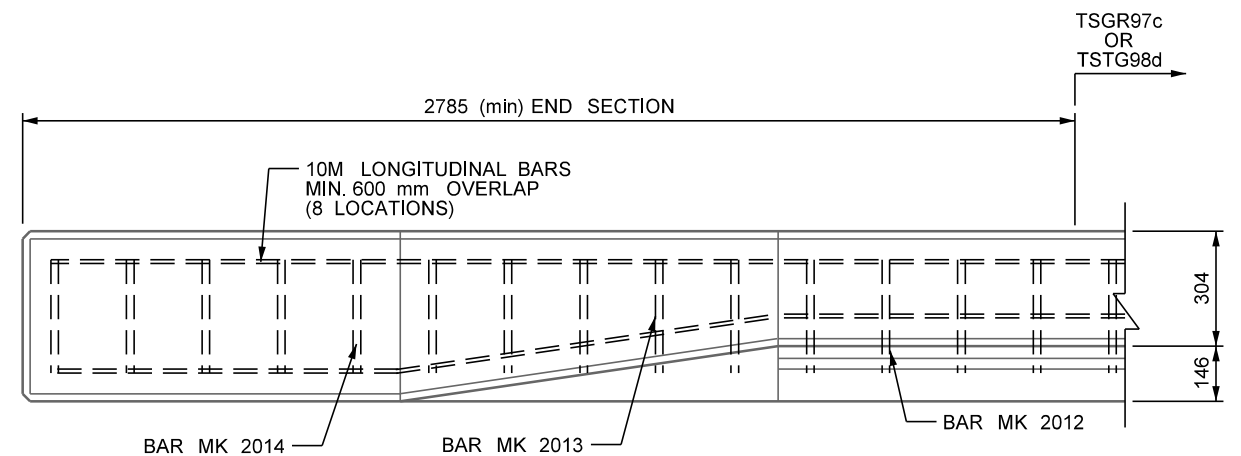
**MANITOBA CONSTRAINED
WIDTH CONSTANT SLOPE
BARRIER - ROADSIDE
NESTED THRIE BEAM
TO TL-4**

SHEET NO: 2 OF 8	DATE: 2020 - 08
DESIGNED BY: H. LARSEN	
DRAWN BY: L. LIEBRECHT	
REVIEWED BY: N. JOYAL	
TSTB99c	



DETAIL 'H' - ELEVATION VIEW

SCALE 1:20



DETAIL 'H' - PLAN VIEW

SCALE 1:20

NOTES:

- ALL SCALES ARE APPROXIMATE.
- HOLES FOR THREADED RODS SHALL BE DRILLED HORIZONTAL AT 2 mm LARGER THAN DIAMETER OF THREADED ROD.
- STEEL (REBAR) LOCATOR TO BE USED PRIOR TO DRILLING HOLES.
- SEE SECTIONS 'A-A', 'B-B' & 'C-C' FOR BELOW GRADE DESIGN OPTIONS.
- NEW OR EXISTING REINFORCED CONCRETE FOOTING: CSA A23.1, EXPOSURE CLASS C-1, AIR CONTENT CATEGORY 1, COMPRESSIVE STRENGTH ≥ 35 MPa, AT 28 DAYS.
- HOLES IN FOOTING SHALL BE DRILLED VERTICALLY 2 mm LARGER THAN REINFORCING.
- HOLES IN FOOTING SHALL BE PREPARED FOR EPOXY (HILTI HIT RE 500, OR APPROVED ALTERNATIVE) AS DIRECTED BY MANUFACTURER.
- STIRRUP SHALL BE SECURELY ATTACHED TO REBAR.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE INDICATED.
- SEE SHEETS 7 & 8 FOR REINFORCING DETAILS.
- ALL REINFORCING SHALL HAVE MINIMUM 75 mm COVER, UNLESS OTHERWISE INDICATED.

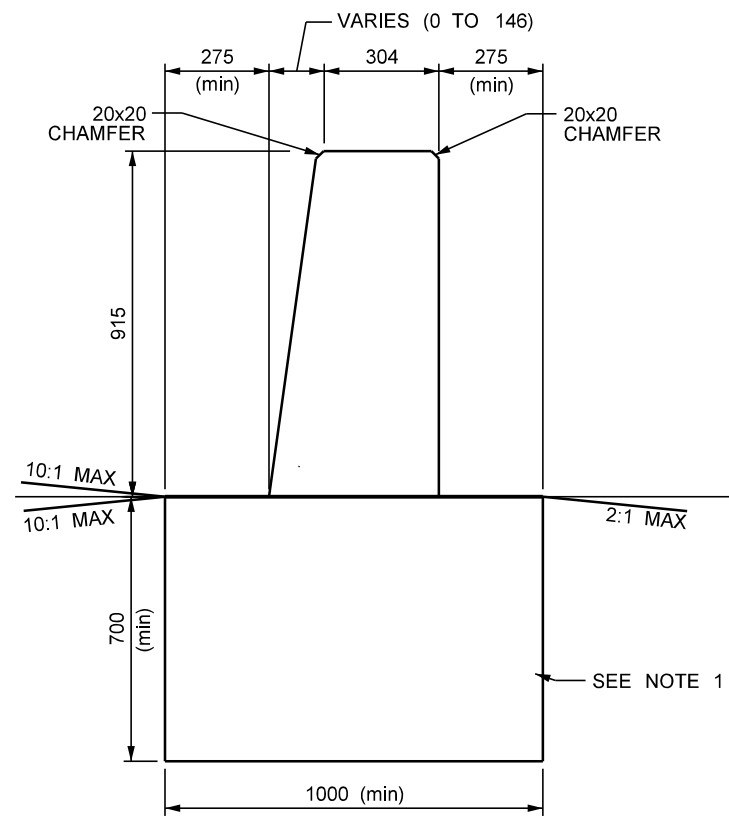
REVISIONS		
DATE	DESCRIPTION	BY



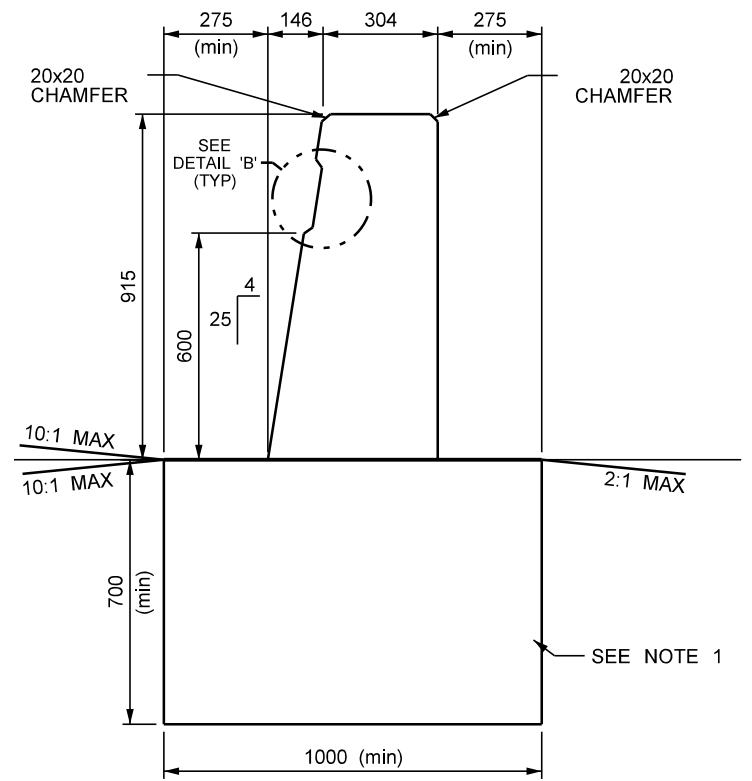
MANITOBA CONSTRAINED
WIDTH CONSTANT SLOPE
BARRIER - ROADSIDE
NESTED THRIE BEAM
TO TL-4

SHEET NO: 3 OF 8	DATE: 2020 - 08
DESIGNED BY:	H. LARSEN
DRAWN BY:	L. LIEBRECHT
REVIEWED BY:	N. JOYAL

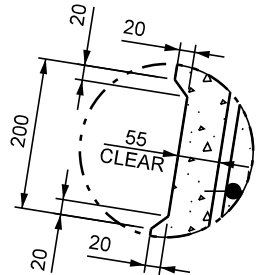
TSTB99c



SECTION 'B-B'
SCALE 1:20



SECTION 'C-C'
SCALE 1:20



DETAIL 'B'
SCALE 1:10

NOTES:

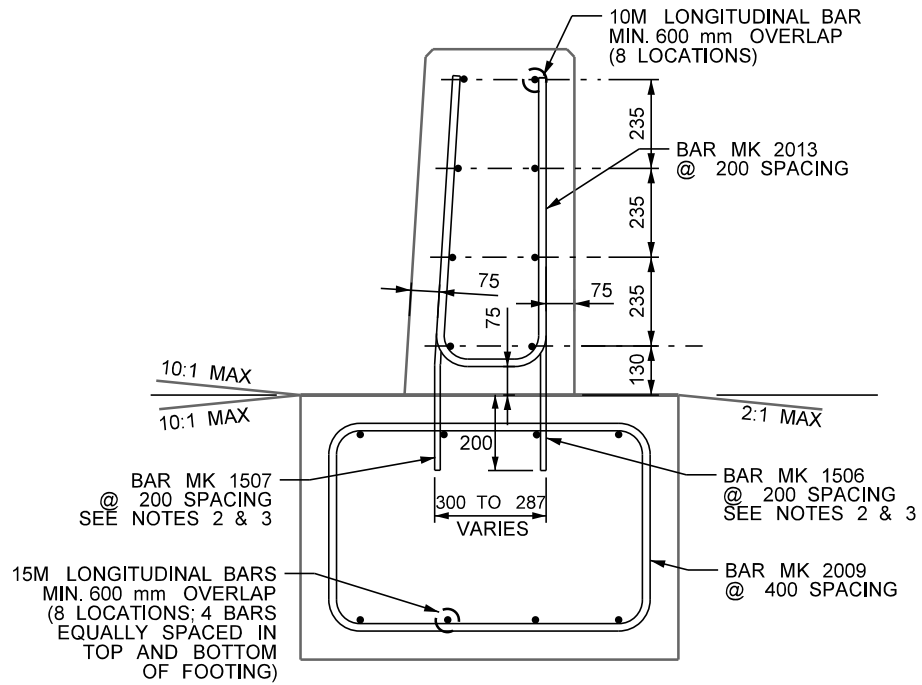
1. NEW OR EXISTING REINFORCED CONCRETE FOOTING: CSA A23.1, EXPOSURE CLASS C-1, AIR CONTENT CATEGORY 1, COMPRESSIVE STRENGTH ≥ 35 MPa, AT 28 DAYS.
2. HOLES IN FOOTING SHALL BE DRILLED VERTICALLY 2 mm LARGER THAN REINFORCING.
3. HOLES IN FOOTING SHALL BE PREPARED FOR EPOXY (HILTI HIT RE 500, OR APPROVED ALTERNATIVE) AS DIRECTED BY MANUFACTURER.
4. STIRRUP SHALL BE SECURELY ATTACHED TO REBAR.
5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE INDICATED.
6. SEE SHEETS 7 & 8 FOR REINFORCING DETAILS.
7. ALL REINFORCING SHALL HAVE 75 mm COVER, UNLESS OTHERWISE INDICATED.

REVISIONS		
DATE	DESCRIPTION	BY



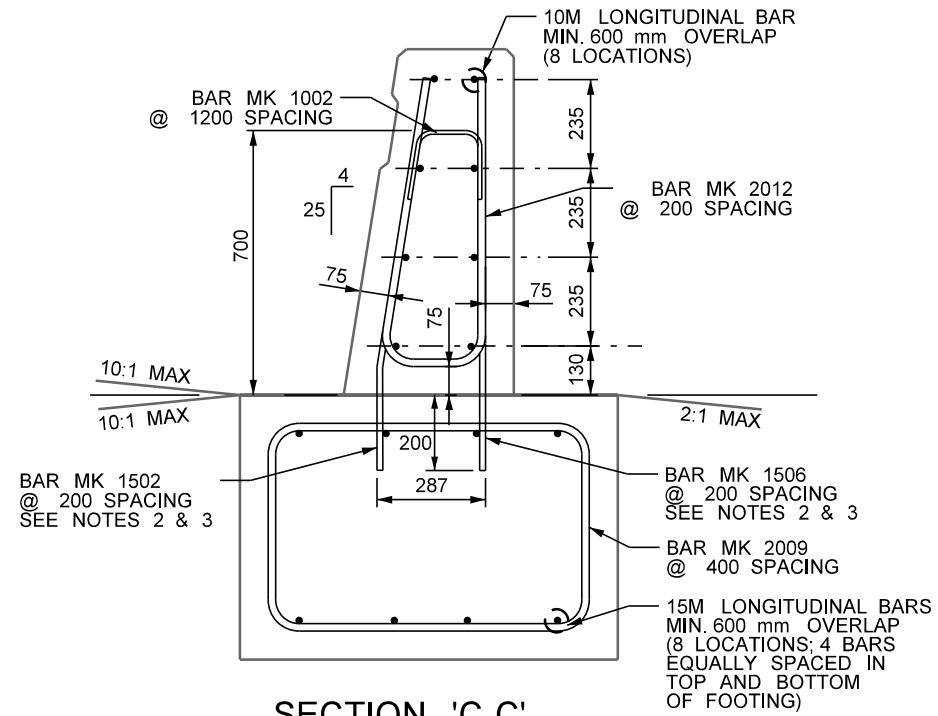
**MANITOBA CONSTRAINED
WIDTH CONSTANT SLOPE
BARRIER - ROADSIDE
NESTED THRIE BEAM
TO TL-4**

SHEET NO: 4 OF 8	DATE: 2020 - 08
DESIGNED BY:	H. LARSEN
DRAWN BY:	L. LIEBRECHT
REVIEWED BY:	N. JOYAL
TSTB99c	



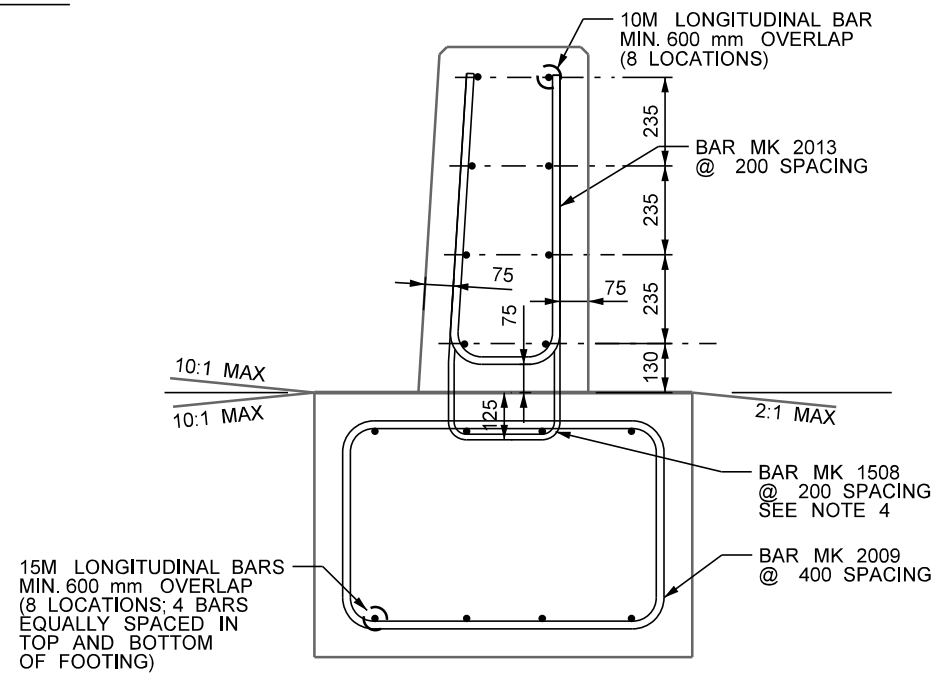
SECTION 'B-B'

OPTION 1
SCALE 1:20



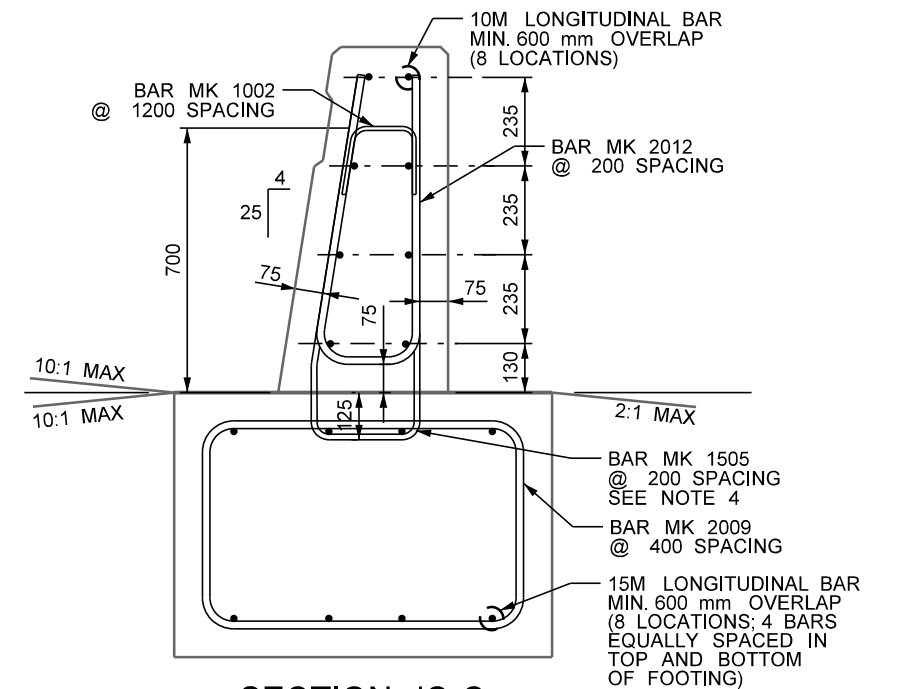
SECTION 'C-C'

OPTION 1
SCALE 1:20



SECTION 'B-B'

OPTION 2
SCALE 1:20



SECTION 'C-C'

OPTION 2
SCALE 1:20

NOTES:

1. NEW OR EXISTING REINFORCED CONCRETE FOOTING: CSA A23.1, EXPOSURE CLASS C-1, AIR CONTENT CATEGORY 1, COMPRESSIVE STRENGTH ≥ 35 MPa, AT 28 DAYS.
2. HOLES IN FOOTING SHALL BE DRILLED VERTICALLY 2 mm LARGER THAN REINFORCING.
3. HOLES IN FOOTING SHALL BE PREPARED FOR EPOXY (HILTI HIT RE 500, OR APPROVED ALTERNATIVE) AS DIRECTED BY MANUFACTURER.
4. STIRRUP SHALL BE SECURELY ATTACHED TO REBAR.
5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE INDICATED.
6. SEE SHEETS 5 & 6 FOR REINFORCING DETAILS.
7. ALL REINFORCING SHALL HAVE 75 mm COVER, UNLESS OTHERWISE INDICATED.

REVISIONS		
DATE	DESCRIPTION	BY

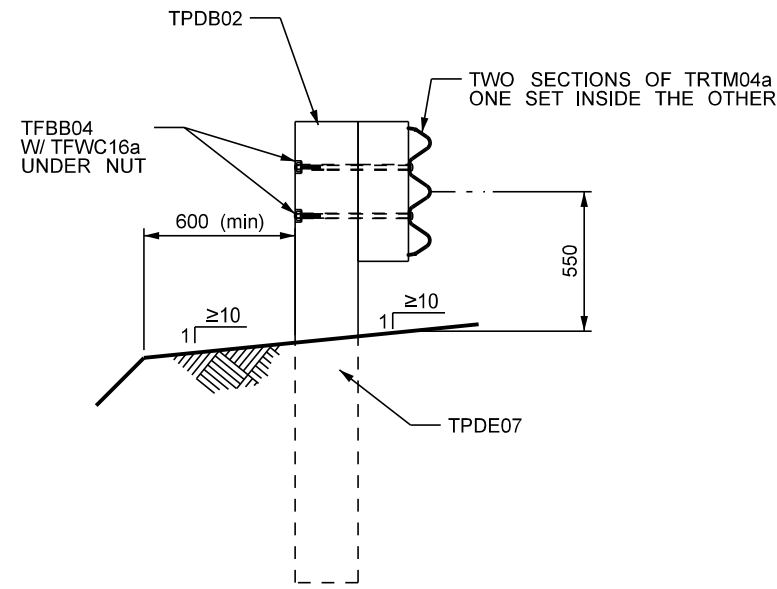
Manitoba
Infrastructure
Traffic Engineering



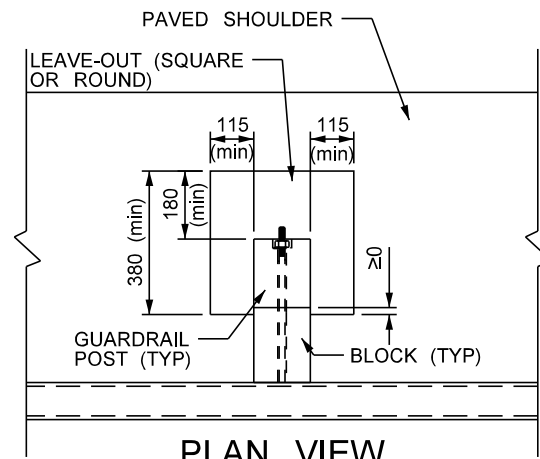
**MANITOBA CONSTRAINED
WIDTH CONSTANT SLOPE
BARRIER - ROADSIDE
NESTED THRIE BEAM
TO TL-4**

SHEET NO: 5 OF 8	DATE: 2020 - 08
DESIGNED BY:	H. LARSEN
DRAWN BY:	L. LIEBRECHT
REVIEWED BY:	N. JOYAL

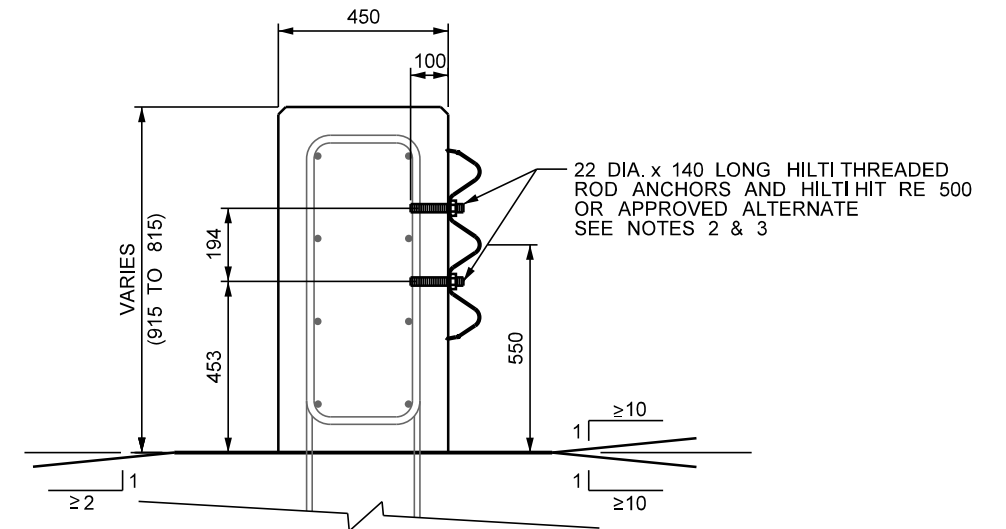
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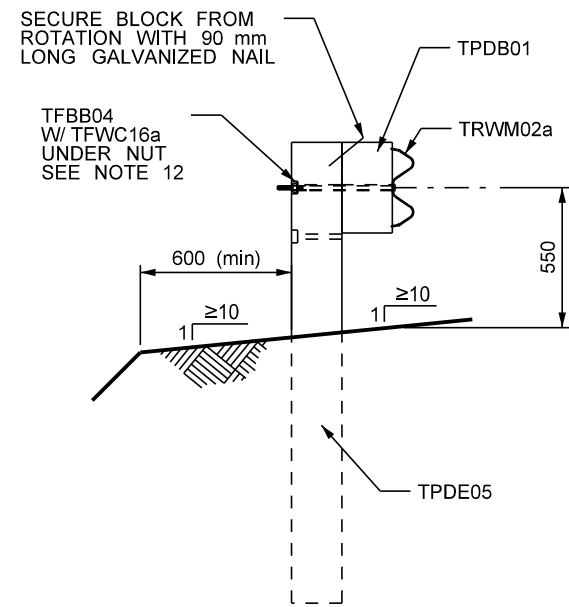
SECTION 'D-D'
SCALE 1:30



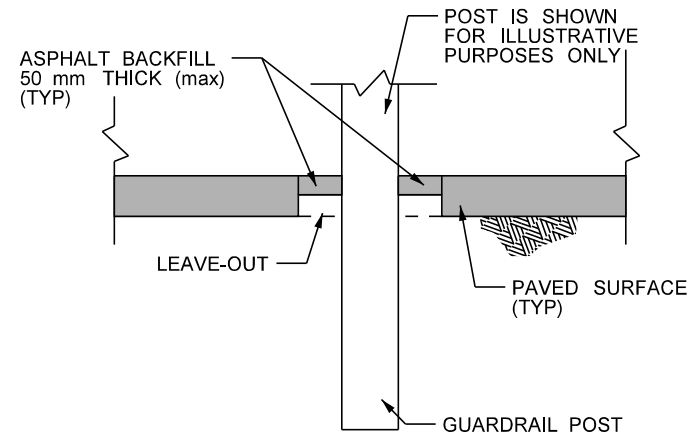
PLAN VIEW
SCALE 1:20



PARTIAL SECTION 'F-F'
SCALE 1:20

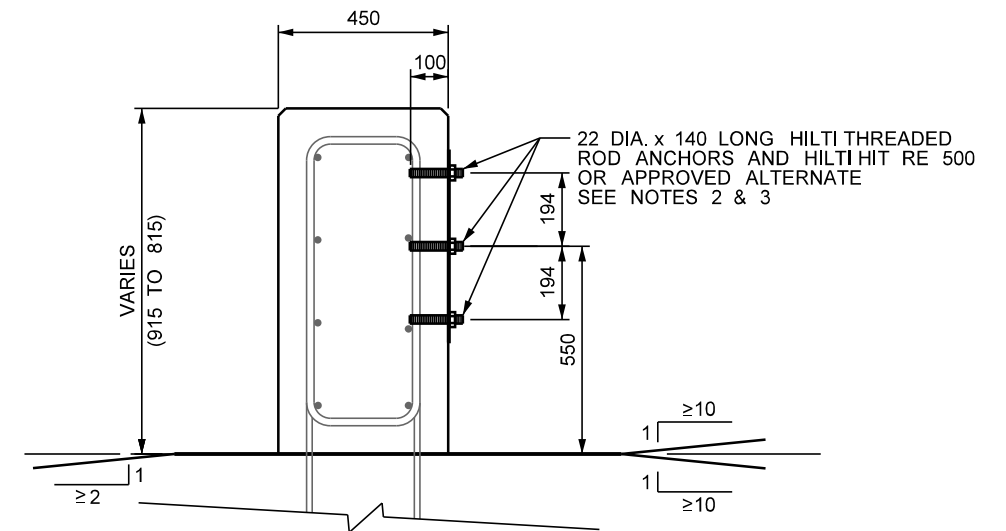


SECTION 'E-E'
SCALE 1:30



ELEVATION VIEW
NOT TO SCALE

STANDARD LEAVE-OUT DETAIL



PARTIAL SECTION 'G-G'
SCALE 1:20

NOTES:

1. ALL SCALES ARE APPROXIMATE.
2. HOLES FOR THREADED RODS SHALL BE DRILLED HORIZONTAL AT 2 mm LARGER THAN DIAMETER OF THREADED ROD.
3. STEEL (REBAR) LOCATOR TO BE USED PRIOR TO DRILLING HOLES.

REVISIONS		
DATE	DESCRIPTION	BY



**MANITOBA CONSTRAINED
WIDTH CONSTANT SLOPE
BARRIER - ROADSIDE
NESTED THRIE BEAM
TO TL-4**

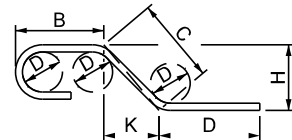
SHEET NO: 6 OF 8	DATE: 2020 - 08
DESIGNED BY:	H. LARSEN
DRAWN BY:	L. LIEBRECHT
REVIEWED BY:	N. JOYAL

TSTB99c

MARK	TYPE	PIN DIAMETER (mm)	TOTAL LENGTH (mm)	MASS			BENDING DIAGRAM																																																															
				kg	kg/m																																																																	
					INTERIOR SEC.	END SEC.																																																																
1002	BENT	65	503	0.39	--	0.14																																																																
1502	BENT	65	604	0.95	--	1.65																																																																
1505	BENT	65	1300	2.04	--	3.55																																																																
1506	STR	0	600	0.94	--	1.63																																																																
							<table border="1"> <thead> <tr> <th colspan="7"></th> <th>DIMENSION</th> </tr> </thead> <tbody> <tr> <td>1507a</td> <td>BENT</td> <td>65</td> <td>603</td> <td>0.95</td> <td>--</td> <td>0.33</td> <td>A</td> </tr> <tr> <td>1507b</td> <td>BENT</td> <td>65</td> <td>602</td> <td>0.95</td> <td>--</td> <td>0.33</td> <td>34</td> </tr> <tr> <td>1507c</td> <td>BENT</td> <td>65</td> <td>601</td> <td>0.94</td> <td>--</td> <td>0.33</td> <td>24</td> </tr> <tr> <td>1507d</td> <td>BENT</td> <td>65</td> <td>600</td> <td>0.94</td> <td>--</td> <td>0.33</td> <td>15</td> </tr> <tr> <td>1507e</td> <td>BENT</td> <td>65</td> <td>600</td> <td>0.94</td> <td>--</td> <td>0.33</td> <td>5</td> </tr> </tbody> </table>								DIMENSION	1507a	BENT	65	603	0.95	--	0.33	A	1507b	BENT	65	602	0.95	--	0.33	34	1507c	BENT	65	601	0.94	--	0.33	24	1507d	BENT	65	600	0.94	--	0.33	15	1507e	BENT	65	600	0.94	--	0.33	5															
							DIMENSION																																																															
1507a	BENT	65	603	0.95	--	0.33	A																																																															
1507b	BENT	65	602	0.95	--	0.33	34																																																															
1507c	BENT	65	601	0.94	--	0.33	24																																																															
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1507e	BENT	65	600	0.94	--	0.33	5																																																															
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							DIMENSION																																																															
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1508d	BENT	65	1306	2.05	--	0.71	15	297																																																														
1508e	BENT	65	1308	2.05	--	0.71	5	299																																																														

NOTES:

- ALL DIMENSIONS GIVEN IN BENDING DIAGRAM ARE OUT TO OUT, EXCEPT RADII AND EXTENSIONS ON 90°, 135° & 180° HOOKS. EXTENSIONS ON 90°, 135° & 180° HOOKS ARE THE "A" OR "G" DIMENSIONS FOR THE STANDARD 90°, 135° & 180° HOOKS REFERENCED FROM THE RSIC "MANUAL OF STANDARD PRACTICE". RADII ARE INSIDE DIMENSIONS. ALL REINFORCING STEEL BENDS AND HOOKS SHALL CONFORM TO CLAUSE 6.6.2 OF CSA A23.1 UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- ALL REINFORCING STEEL SHALL BE DEFORMED STEEL UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- ALL REINFORCING STEEL SHALL CONFORM TO CSA G30.18-M92 "BILLET STEEL BARS FOR CONCRETE REINFORCEMENT" GRADE 400W, UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- LIKE BARS SHALL BE BUNDLED, SECURELY TIED, AND IDENTIFIED AS TO MARK No. BY APPROPRIATE MEANS. ALL OTHER ITEMS TO BE IDENTIFIED IN A SIMILAR FASHION.
- BARS MARKED WITH THE SUFFIX "P" SHALL BE PLAIN UNDEFORMED BARS IN ACCORDANCE WITH CAN/CSA G40.21-M92 GRADE 300W.
- ALL BARS SHALL BE BENT IN ACCORDANCE WITH THE FOLLOWING DETAIL:



REVISIONS		
DATE	DESCRIPTION	BY

Manitoba Infrastructure
Traffic Engineering



MANITOBA
CONSTRAINED WIDTH
CONSTANT SLOPE
BARRIER - MEDIAN
TL-4 AT 915

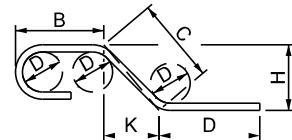
SHEET NO: 7 OF 8 DATE: 2020 - 08
DESIGNED BY: H. LARSEN
DRAWN BY: L. LIEBRECHT
REVIEWED BY: N. JOYAL

TSTB99c

MARK	TYPE	PIN DIAMETER (mm)	TOTAL LENGTH (mm)	MASS			BENDING DIAGRAM																																																								
				kg	kg/m																																																										
					INTERIOR SEC.	END SEC.																																																									
1509	BENT	65	1450	2.28	--	3.97																																																									
2009	BENT	125	3283	7.73	--	40.33																																																									
2012	BENT	125	1741	4.41	--	7.67																																																									
							<table border="1"> <thead> <tr> <th colspan="3">DIMENSION</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2013a</td> <td>BENT</td> <td>125</td> <td>1742</td> <td>4.41</td> <td>--</td> <td>1.53</td> <td>773</td> <td>181</td> <td>108</td> </tr> <tr> <td>2013b</td> <td>BENT</td> <td>125</td> <td>1745</td> <td>4.42</td> <td>--</td> <td>1.54</td> <td>770</td> <td>208</td> <td>84</td> </tr> <tr> <td>2013c</td> <td>BENT</td> <td>125</td> <td>1749</td> <td>4.43</td> <td>--</td> <td>1.54</td> <td>767</td> <td>235</td> <td>59</td> </tr> <tr> <td>2013d</td> <td>BENT</td> <td>125</td> <td>1753</td> <td>4.44</td> <td>--</td> <td>1.54</td> <td>766</td> <td>261</td> <td>35</td> </tr> <tr> <td>2013e</td> <td>BENT</td> <td>125</td> <td>1757</td> <td>4.45</td> <td>--</td> <td>1.55</td> <td>765</td> <td>288</td> <td>11</td> </tr> </tbody> </table>	DIMENSION			A	B	C	2013a	BENT	125	1742	4.41	--	1.53	773	181	108	2013b	BENT	125	1745	4.42	--	1.54	770	208	84	2013c	BENT	125	1749	4.43	--	1.54	767	235	59	2013d	BENT	125	1753	4.44	--	1.54	766	261	35	2013e	BENT	125	1757	4.45	--	1.55	765	288	11
DIMENSION																																																															
A	B	C																																																													
2013a	BENT	125	1742	4.41	--	1.53	773	181	108																																																						
2013b	BENT	125	1745	4.42	--	1.54	770	208	84																																																						
2013c	BENT	125	1749	4.43	--	1.54	767	235	59																																																						
2013d	BENT	125	1753	4.44	--	1.54	766	261	35																																																						
2013e	BENT	125	1757	4.45	--	1.55	765	288	11																																																						
							<table border="1"> <thead> <tr> <th colspan="2">DIMENSION</th> </tr> <tr> <th>A</th> <th></th> </tr> </thead> <tbody> <tr> <td>2014a</td> <td>BENT</td> <td>125</td> <td>2599</td> <td>6.12</td> <td>--</td> <td>2.13</td> <td>753</td> </tr> <tr> <td>2014b</td> <td>BENT</td> <td>125</td> <td>2561</td> <td>6.03</td> <td>--</td> <td>2.10</td> <td>724</td> </tr> <tr> <td>2014c</td> <td>BENT</td> <td>125</td> <td>2521</td> <td>5.94</td> <td>--</td> <td>2.07</td> <td>714</td> </tr> <tr> <td>2014d</td> <td>BENT</td> <td>125</td> <td>2481</td> <td>5.84</td> <td>--</td> <td>2.03</td> <td>694</td> </tr> <tr> <td>2014e</td> <td>BENT</td> <td>125</td> <td>2441</td> <td>5.75</td> <td>--</td> <td>2.00</td> <td>674</td> </tr> </tbody> </table>	DIMENSION		A		2014a	BENT	125	2599	6.12	--	2.13	753	2014b	BENT	125	2561	6.03	--	2.10	724	2014c	BENT	125	2521	5.94	--	2.07	714	2014d	BENT	125	2481	5.84	--	2.03	694	2014e	BENT	125	2441	5.75	--	2.00	674												
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BAR	INTERIOR SECTION	END SECTION	FOOTING																																																												
			OPTION 1	OPTION 2	OPTION 3																																																										
10M	--	6.59	--	--	--																																																										
15M	--	--	13.19	13.19	--																																																										
20M	--	--	--	--	--																																																										

NOTES:

- ALL DIMENSIONS GIVEN IN BENDING DIAGRAM ARE OUT TO OUT, EXCEPT RADII AND EXTENSIONS ON 90°, 135° & 180° HOOKS. EXTENSIONS ON 90°, 135° & 180° HOOKS ARE THE "A" OR "G" DIMENSIONS FOR THE STANDARD 90°, 135° & 180° HOOKS REFERENCED FROM THE RSIC "MANUAL OF STANDARD PRACTICE". RADII ARE INSIDE DIMENSIONS. ALL REINFORCING STEEL BENDS AND HOOKS SHALL CONFORM TO CLAUSE 6.6.2 OF CSA A23.1 UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- ALL REINFORCING STEEL SHALL BE DEFORMED STEEL UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- ALL REINFORCING STEEL SHALL CONFORM TO CSA G30.18-M92 "BILLET STEEL BARS FOR CONCRETE REINFORCEMENT" GRADE 400W, UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- LIKE BARS SHALL BE BUNDLED, SECURELY TIED, AND IDENTIFIED AS TO MARK No. BY APPROPRIATE MEANS. ALL OTHER ITEMS TO BE IDENTIFIED IN A SIMILAR FASHION.
- BARS MARKED WITH THE SUFFIX "P" SHALL BE PLAIN UNDEFORMED BARS IN ACCORDANCE WITH CAN/CSA G40.21-M92 GRADE 300W.
- ALL BARS SHALL BE BENT IN ACCORDANCE WITH THE FOLLOWING DETAIL:



REVISIONS					MANITOBA CONSTRAINED WIDTH CONSTANT SLOPE BARRIER - MEDIAN TL-4 AT 915	SHEET NO: 8 OF 8	DATE: 2020 - 08
DATE	DESCRIPTION	BY				DESIGNED BY: H. LARSEN	DRAWN BY: L. LIEBRECHT
						TSTB99c	