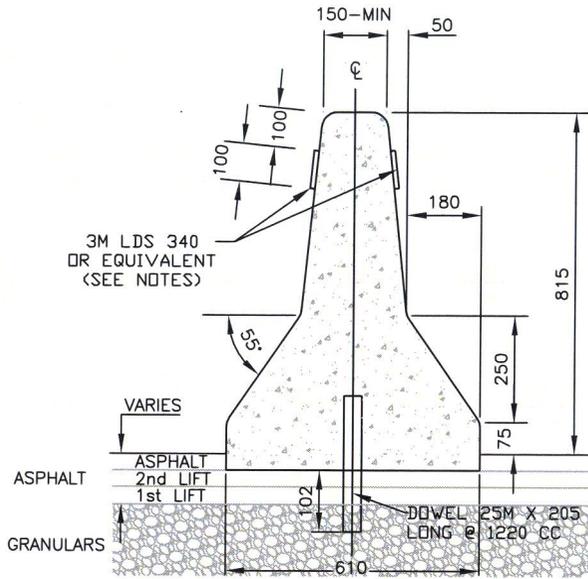
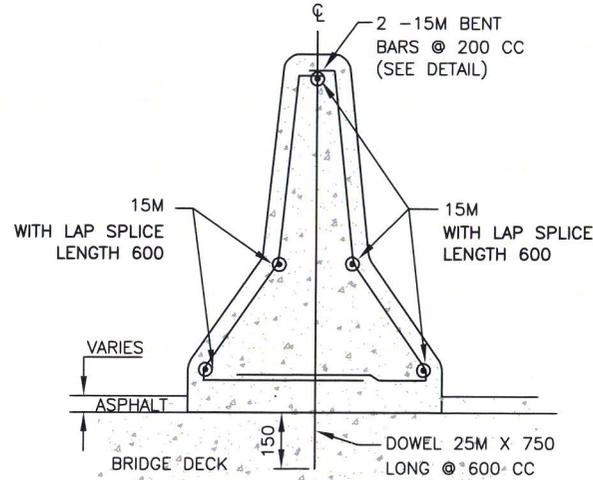


APPENDIX C

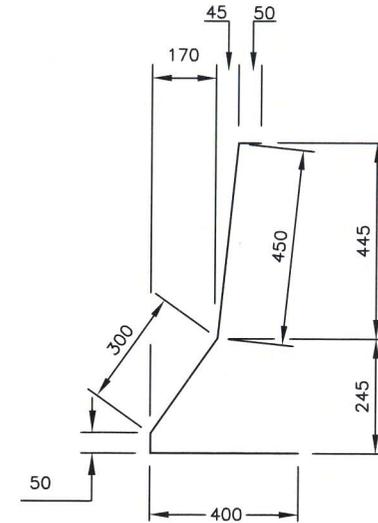
Nova Scotia Department of Transportation and Infrastructure Renewal-
Standard Details Referenced



BARRIER OVER ROADWAY



BARRIER OVER BRIDGES



BENT BAR DETAIL

NOTES:

1. CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH DIVISION 5, SECTION 7 OF STANDARD SPECIFICATIONS.
2. TRAVERSE JOINTS ARE RECOMMENDED AT 6.0m INTERVALS (MAXIMUM).
3. CONCRETE VOLUME = 0.254 CUBIC m/m.
4. OUTSIDE CORNERS TO BE FINISHED TO 25R.
5. EXPOSED ENDS FACING TRAFFIC SHOULD BE PROTECTED USING ONE OF THE TRACC FAMILY END TREATMENTS OR THE HEART END TREATMENT, BOTH BY TRINITY OR AN EQUIVALENT NCHRP 350 TEST LEVEL 3 END TREATMENT.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
7. 3M 340 LINEAR DELINEATION SYSTEM (LDS) OR EQUIVALENT REFLECTORS ARE PLACED 100 MM DOWN FROM THE TOP OF THE BARRIER, EVERY 20 METRES. THE COLOUR IS YELLOW FOR MEDIAN BARRIER.
8. THE LDS COLOUR IS WHITE WHEN THE BARRIER IS USED ON THE RIGHT SIDE OF THE ROAD

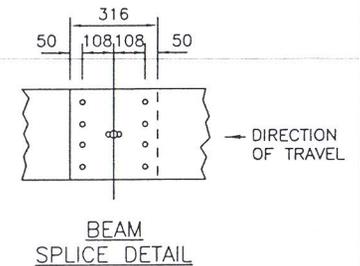
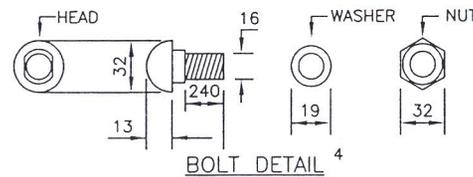
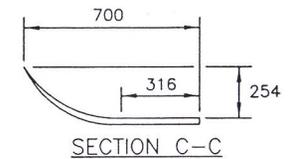
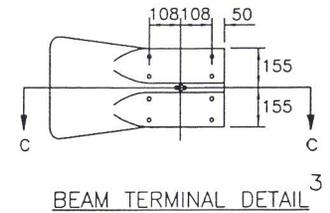
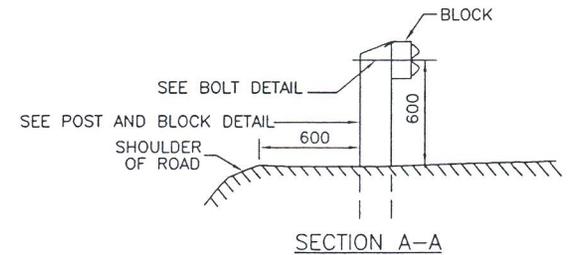
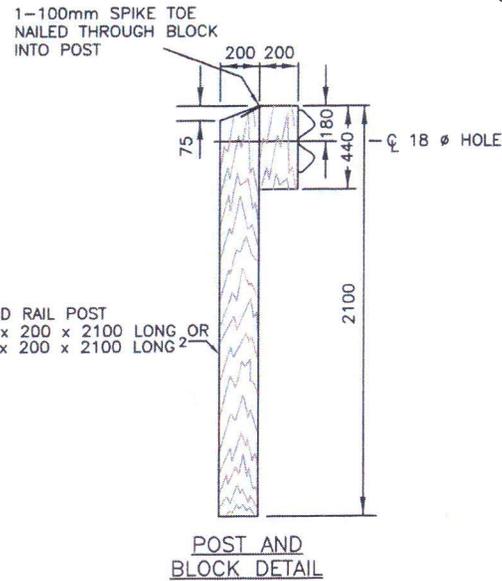
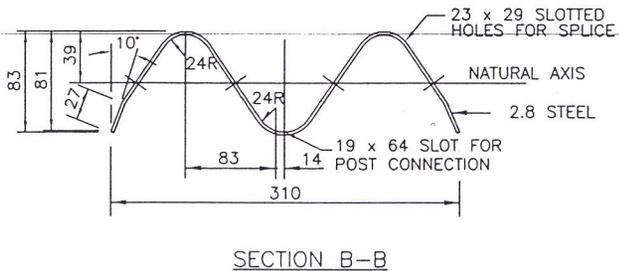
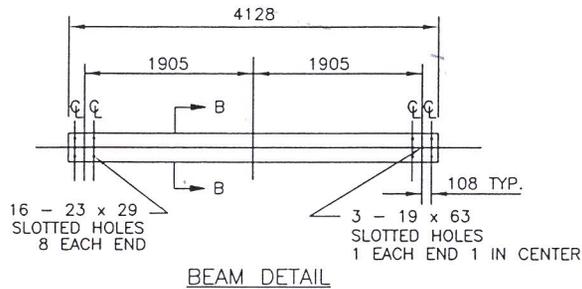
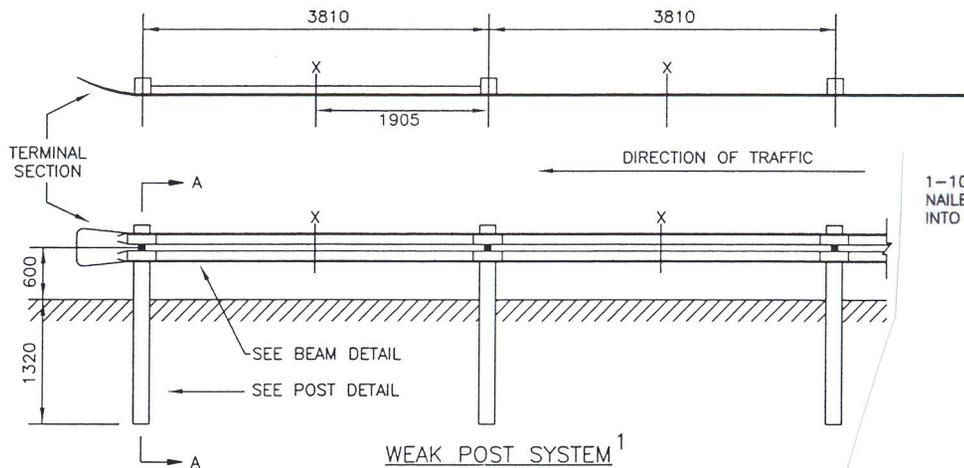


3	LDS NOTES ADDED. MAR 2014
2	EMBEDDING DEPTH SHOWN
1	HS # ADDED TO TITLE
No.	REVISION

Scale : N.T.S.
 Drawn by : M.LABRECHE
 Checked by : K.BODDY
 Date of Plan : AUG2009
 File No. : S-2009-022

B. White
 Manager Highway Planning and Design
B. Boddy
 Director Highway Engineering Services
K. Boddy
 Executive Director Highway Engineering and Construction

**JERSEY BARRIER
 HS529**



NOTES:

1. FOR STRONG POST SYSTEM, ADD POST AT POINT X.
2. IF 150 x 200 x 2100 LONG POSTS ARE USED, THE MATERIAL IS TO BE HARDWOOD.
3. TERMINAL SECTION ONLY APPROPRIATE FOR 4-LANE DIVIDED HIGHWAYS.

4. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED BY THE HOT DIP PROCESS. BOLTS SHALL BE CAPABLE OF WITHSTANDING 106 kN IN SINGLE SHEAR. 16mm SQUARE NUT AND 19mm ROUND WASHERS ARE TO BE USED. ONE WASHER FOR EACH 240mm x 16mm BOLT. BOLTS ARE TO HAVE 75mm THREADS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Philip Cohen
Manager Highway Planning and Design
M. Labreche
Director, Highway Engineering Services
[Signature]
Executive Director Highway Engineering and Construction

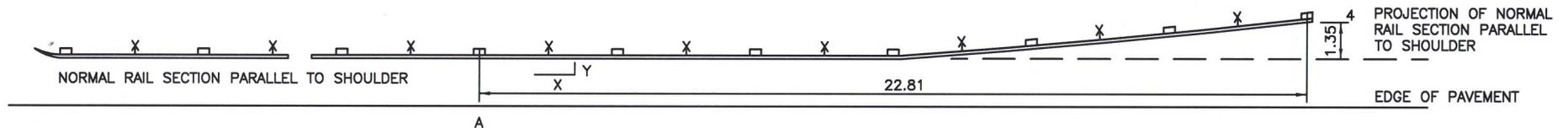
GUARD RAIL AND POST DETAILS
HS518

NOVA SCOTIA
Transportation and Infrastructure Renewal

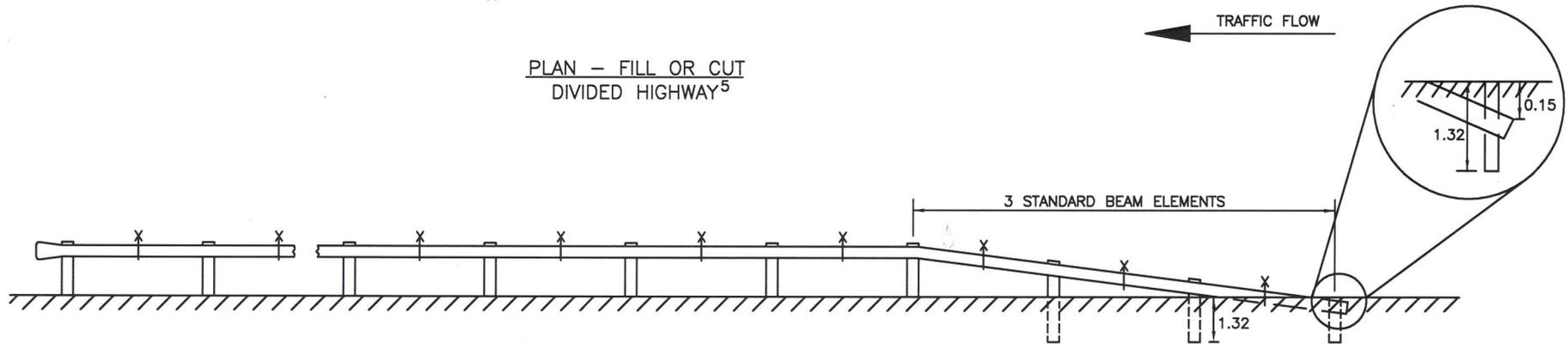
No.	REVISION
2	BEAM SPLICE DETAIL MODIFIED /SEP10
1	DETAILS, NOTES, TITLES /FEB 10

Scale : N.T.S.
Drawn by : M.LABRECHE
Checked by : J.RAE
Date of Plan : AUG2009
File No. : S-2009-071

POST OFFSET TABLE	
FILL OR CUT	
x	y ³
3.81	0.04
7.62	0.15
11.42	0.34
15.22	0.60
19.02	0.94
22.81	1.35



PLAN - FILL OR CUT
DIVIDED HIGHWAY⁵



ELEVATION
DIVIDED HIGHWAY⁵

1. FOR STRONG POST SYSTEM, ADD POST AT POINT "X"
2. THIS STANDARD DRAWING IS NOT APPLICABLE TO NEW 100 SERIES HIGHWAY CONSTRUCTION WHERE ENERGY ABSORBING GUARD RAIL TERMINALS (EAGRT) SYSTEMS ARE SPECIFIED.
3. MEASURED FROM FACE OF RAIL BASED ON NORMAL RAIL SECTION PARALLEL TO SHOULDER AT A.
4. GUARD RAIL MAY BE PLACED AS PRACTICABLE FROM EDGE OF SHOULDER. IN NO CASE MAY GUARD RAIL BE PLACED DOWN THE SLOPE.
5. FOR 2-LANE/ 2-WAY ROADWAYS, BURY BOTH ENDS OF GUARD RAIL.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

Philip Colburn
Manager Highway Planning and Design

[Signature]
Director Highway Engineering Services

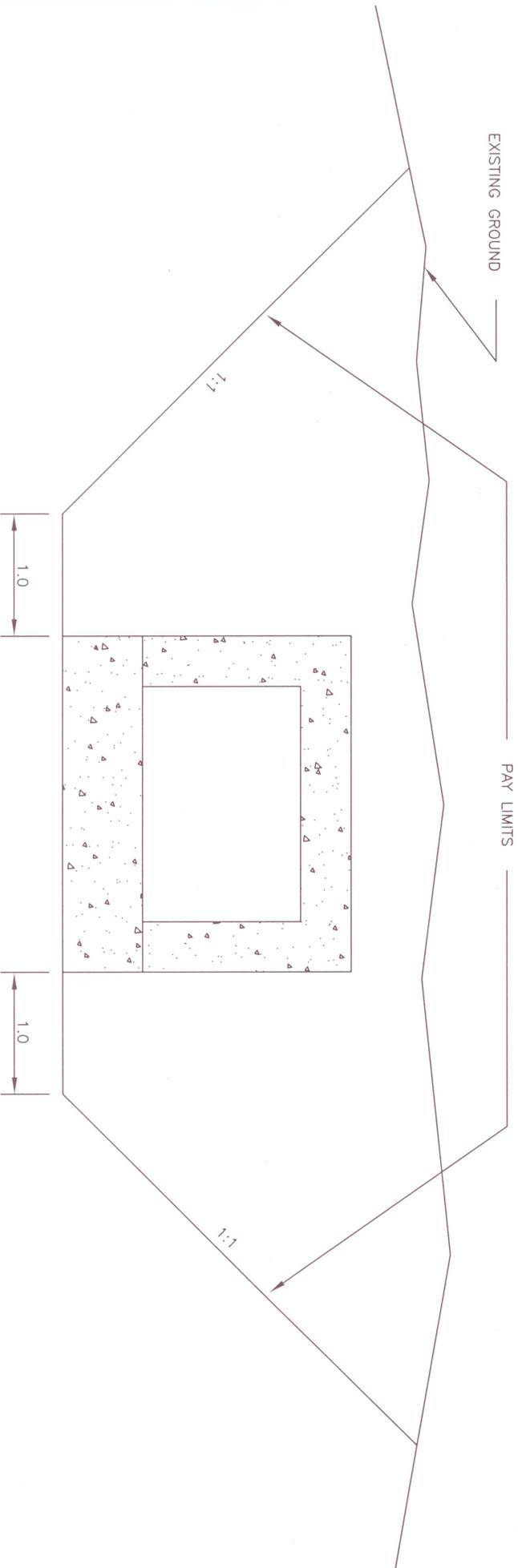
[Signature]
Executive Director Highway Engineering and Construction

STEEL BEAM GUARD RAIL
END TREATMENT HS520



4	Addition of EAGRT note - Feb 12
3	Addition of post bury depth - FEB 11
2	Addition of "X" for strong post system
1	Notes, Titles - Feb 10
No.	REVISION

Scale : N.T.S.
 Drawn by : M.LABRECHE
 Checked by : J.RAE
 Date of Plan : AUG2009
 File No. : S-2009-072



- NOTES:
1. ALSO USED FOR ANY STRUCTURES THAT REQUIRE CAST IN PLACE CONCRETE (INCLUDING FOOTINGS AND FORMATIONS)
 2. THIS CROSS SECTION REPRESENTS MAXIMUM PAY LIMITS FOR FOUNDATION EXCAVATIONS
 3. IF THE BOTTOM WIDTH OF THE EXCAVATION IS LESS OR IF THE SIDE SLOPES ARE STEEPER THAN INDICATED, THE SECTIONAL AREA WILL BE COMPUTED ACCORDINGLY.
 4. EXCEPT IN THOSE CASES WHERE DIMENSIONS FOR EXCAVATION ARE INDICATED ON INDIVIDUAL PLANS, THE DIMENSIONS USED IN COMPUTING THE SECTIONAL AREA OF FOUNDATION EXCAVATION FOR TIMBER STRUCTURES OR STRUCTURES OF ALL SIZES REQUIRING CAST IN PLACE CONCRETE WILL BE AS SHOWN.
 5. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

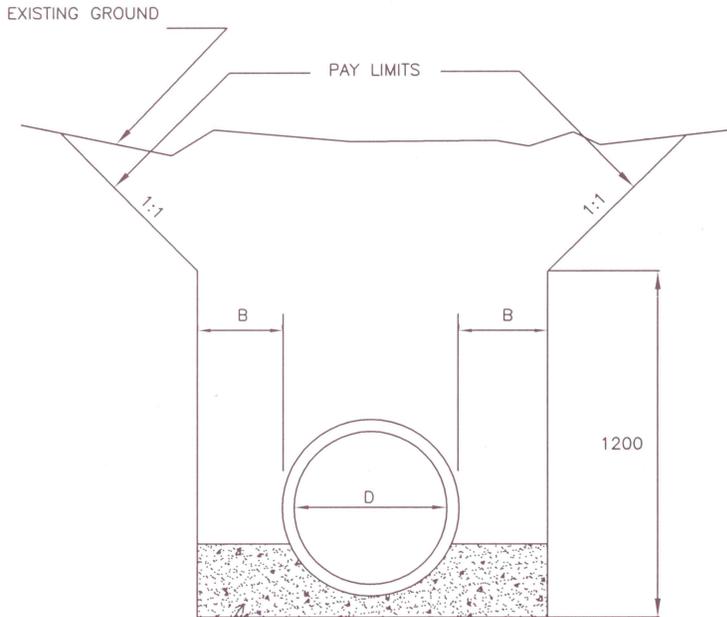
NOVA SCOTIA
 Transportation and Infrastructure Renewal

No.	1	HS # ADDED TO TITLE
		REVISION

Scale : N.T.S.
 Drawn by : M.W.L.
 Checked by : NAME
 Date of Plan : Sept 2009
 File No. : S-2009-142

Manager Highway Planning and Design
 Director Highway Engineering Services
 Executive Director Highway Engineering and Construction

**FOUNDATION EXCAVATION FOR
 BUILT-IN-PLACE STRUCTURES HS-203**



CLASS "B" OR "C"
 BEDDING AS PER
 Dwg S-2009-051

PIPE DIAMETER, D (INSIDE)	DIMENSION B
UP TO 500	300
501 TO 1200	400
OVER 1200 OR ANY OTHER PRECAST SECTION	500

NOTES:

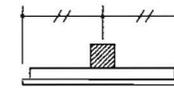
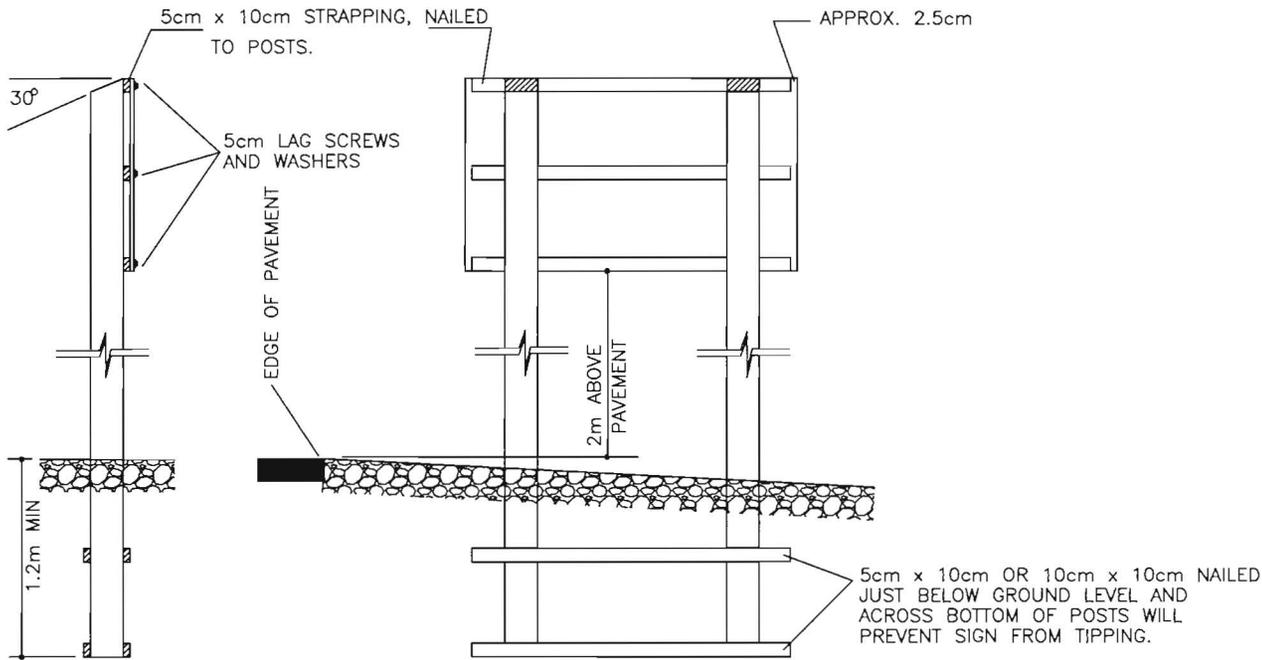
1. THE CROSS SECTION REPRESENTS MAXIMUM PAY LIMITS FOR FOUNDATION EXCAVATION. IF THE BOTTOM WIDTH IS LESS OR IF THE SIDE SLOPES ARE STEEPER THAN INDICATED, THE SECTIONAL AREA WILL BE COMPUTED ACCORDINGLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

Scale : N.T.S.
 Drawn by : M.W.L.
 Checked by :
 Date of Plan : Sept. 2009
 File No. : S-2009-144

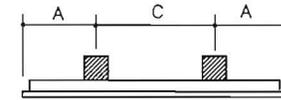
Paul Coburn
 Manager Highway Planning and Design

[Signature]
 Director Highway Engineering Services

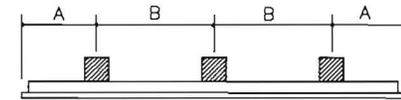
[Signature]
 Executive Director Highway Engineering and Construction



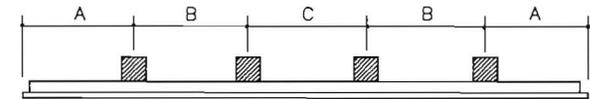
ONE POST



TWO POST



THREE POST



FOUR POST

POST SPACING DIAGRAMS
(NOT TO SCALE)

SEE STANDARD PLAN S-2011-101 FOR POST SPACING

NOTES:

1. STRAPPING BEHIND SIGN ARE TO BE PAINTED THE SAME COLOUR AS THE SIGN.
2. SIGN POSTS TO BE PAINTED WHITE UNLESS PRESSURE TREATED.
3. SIGN SIZE SHOWN ON POST CHART ARE HEIGHT x LENGTH.
4. SEE CHART FOR NUMBER, SIZE AND SPACING OF POSTS.
5. SIGNS TO BE INSTALLED ON BACK SLOPE WHENEVER POSSIBLE.
6. FOR LARGER SIGNS USE MAXIMUM END SPACE OF 45cm AND MAXIMUM POST SPACING OF 120cm WITH 15cm x 15cm POSTS.
7. SEE STANDARD PLAN S-2011-101 FOR POST SPACING.
8. FOR SIGN OFFSET FROM THE LANE LINE, CONTACT THE DISTRICT TRAFFIC SUPERVISOR OR THE PROVINCIAL SIGNING OFFICER.



No.	REVISION

Scale : N.T.S.
 Drawn by : B.STORRIE
 Checked by : P.HILL
 Date of Plan : MAY2011
 File No. : S-2011-100

J. Amadio
 Manager Traffic Engineering Services

P. Hill
 Director Highway Engineering Services

P. Hill
 Executive Director Highway Engineering and Construction

**WOOD SIGN STRUCTURE
ASSEMBLY DETAILS**

Sign Size	# of Posts	Post Size	Post Spacing		
			A	B	C
60 x 30 cm	1	10 x 10 cm	30 cm		
90 x 30 cm	1	10 x 10 cm	45 cm		
60 x 45 cm	1	10 x 10 cm	30 cm		
90 x 45 cm	1	10 x 10 cm	45 cm		
60 x 60 cm	1	10 x 10 cm	30 cm		
90 x 60 cm	1	10 x 10 cm	45 cm		
75 x 75 cm	1	10 x 10 cm	40 cm		
90 x 75 cm	1	10 x 10 cm	45 cm		
90 x 90 cm	1	10 x 10 cm	45 cm		
120 x 30 cm	2	10 x 10 cm	15 cm		90 cm
150 x 30 cm	2	10 x 10 cm	30 cm		90 cm
180 x 30 cm	2	10 x 10 cm	30 cm		120 cm
215 x 30 cm	2	10 x 10 cm	45 cm		120 cm
120 x 45 cm	2	10 x 10 cm	15 cm		90 cm
150 x 45 cm	2	10 x 10 cm	30 cm		90 cm
180 x 45 cm	2	10 x 10 cm	30 cm		120 cm
215 x 45 cm	2	10 x 10 cm	45 cm		120 cm
120 x 60 cm	2	10 x 10 cm	15 cm		90 cm
150 x 60 cm	2	10 x 10 cm	30 cm		90 cm
180 x 60 cm	2	10 x 10 cm	30 cm		120 cm
215 x 60 cm	2	10 x 10 cm	45 cm		120 cm
120 x 75 cm	2	10 x 10 cm	15 cm		90 cm
150 x 75 cm	2	10 x 10 cm	30 cm		90 cm
180 x 75 cm	2	10 x 10 cm	30 cm		120 cm
215 x 75 cm	2	10 x 10 cm	45 cm		120 cm
120 x 90 cm	2	10 x 10 cm	15 cm		90 cm
150 x 90 cm	2	10 x 10 cm	30 cm		90 cm

Sign Size	# of Posts	Post Size	Post Spacing		
			A	B	C
180 x 90 cm	2	10 x 10 cm	30 cm		120 cm
215 x 90 cm	2	10 x 10 cm	45 cm		120 cm
120 x 120 cm	2	10 x 10 cm	15 cm		90 cm
150 x 120 cm	2	10 x 10 cm	30 cm		90 cm
180 x 120 cm	2	10 x 10 cm	30 cm		120 cm
215 x 120 cm	2	10 x 10 cm	45 cm		120 cm
245 x 30 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 45 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 60 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 75 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 90 cm	3	10 x 10 cm	30 cm	90 cm	
275 x 90 cm	3	10 x 10 cm	45 cm	90 cm	
305 x 90 cm	3	15 x 15 cm	30 cm	120 cm	
335 x 90 cm	3	15 x 15 cm	45 cm	120 cm	
365 x 90 cm	3	15 x 15 cm	45 cm	135 cm	
245 x 120 cm	3	15 x 15 cm	30 cm	90 cm	
275 x 120 cm	3	15 x 15 cm	45 cm	90 cm	
305 x 120 cm	3	15 x 15 cm	30 cm	120 cm	
335 x 120 cm	3	15 x 15 cm	45 cm	120 cm	
365 x 120 cm	3	15 x 15 cm	45 cm	135 cm	
395 x 90 cm	4	15 x 15 cm	40 cm	105 cm	105 cm
425 x 90 cm	4	15 x 15 cm	40 cm	115 cm	115 cm
395 x 120 cm	4	15 x 15 cm	40 cm	105 cm	105 cm
425 x 120 cm	4	15 x 15 cm	40 cm	115 cm	115 cm
455 x 120 cm	4	15 x 15 cm	40 cm	125 cm	125 cm
485 x 120 cm	4	15 x 15 cm	40 cm	135 cm	135 cm

NOTES:

[Signature]
 Manager Traffic Engineering Services

[Signature]
 Director Highway Engineering Services

[Signature]
 Executive Director Highway Engineering and Construction



No.	REVISION

Scale : N.T.S.
 Drawn by : J.MACINTOSH/B.STORRIE
 Checked by : P.HILL
 Date of Plan : MAY2011
 File No. : S-2011-101

**WOOD SIGN STRUCTURE
 POST SPACING CHART**