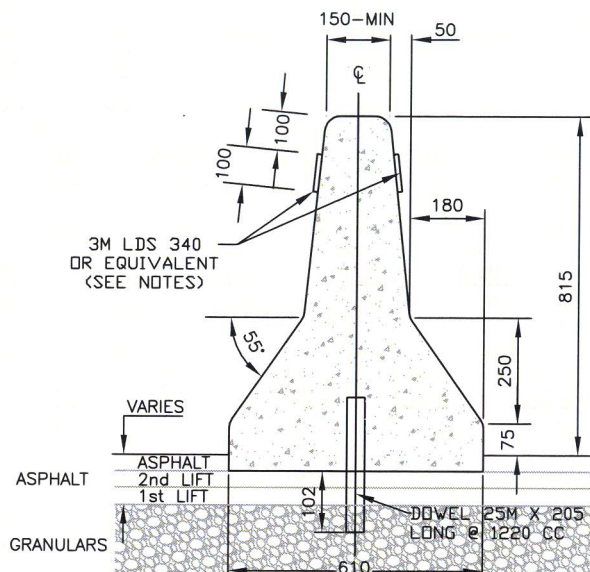
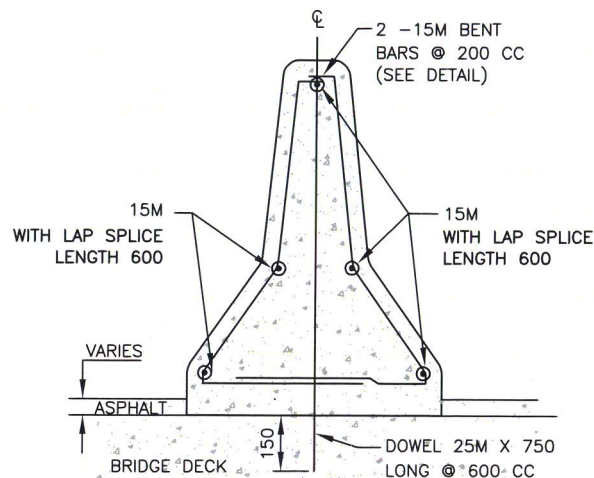


## **APPENDIX C**

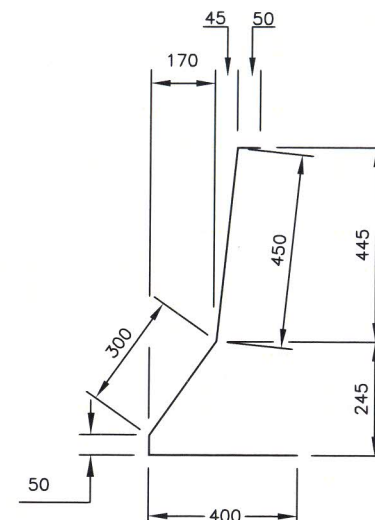
Nova Scotia Department of Transportation and Infrastructure Renewal-  
Standard Details Referenced



BARRIER OVER ROADWAY



BARRIER OVER BRIDGES

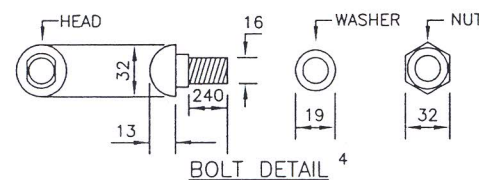
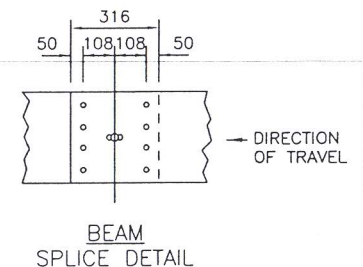
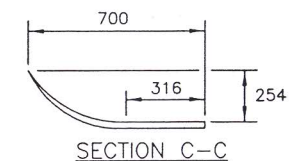
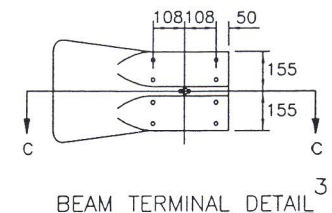
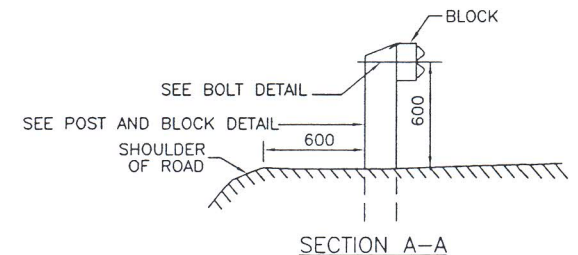
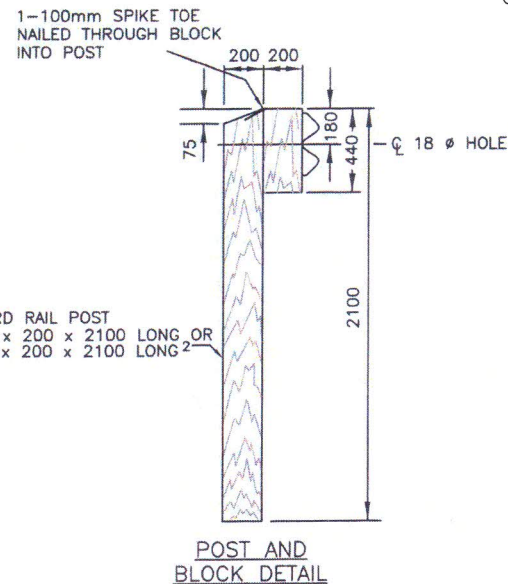
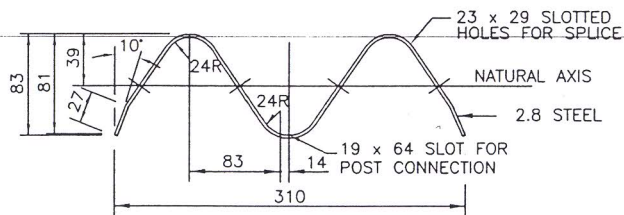
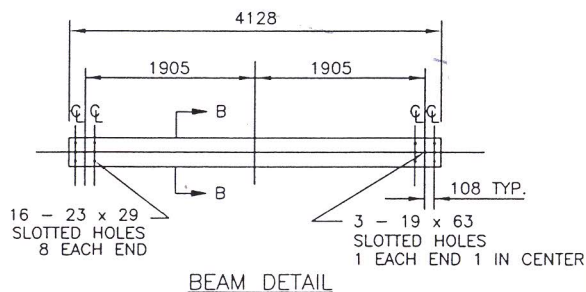
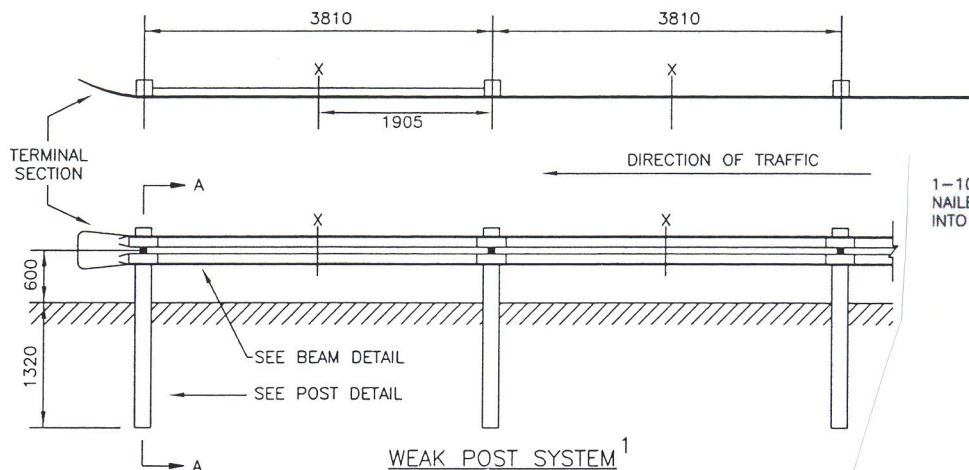


BENT BAR DETAIL

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

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



# 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.

**NOVA SCOTIA**  
Transportation and Infrastructure Renewal

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

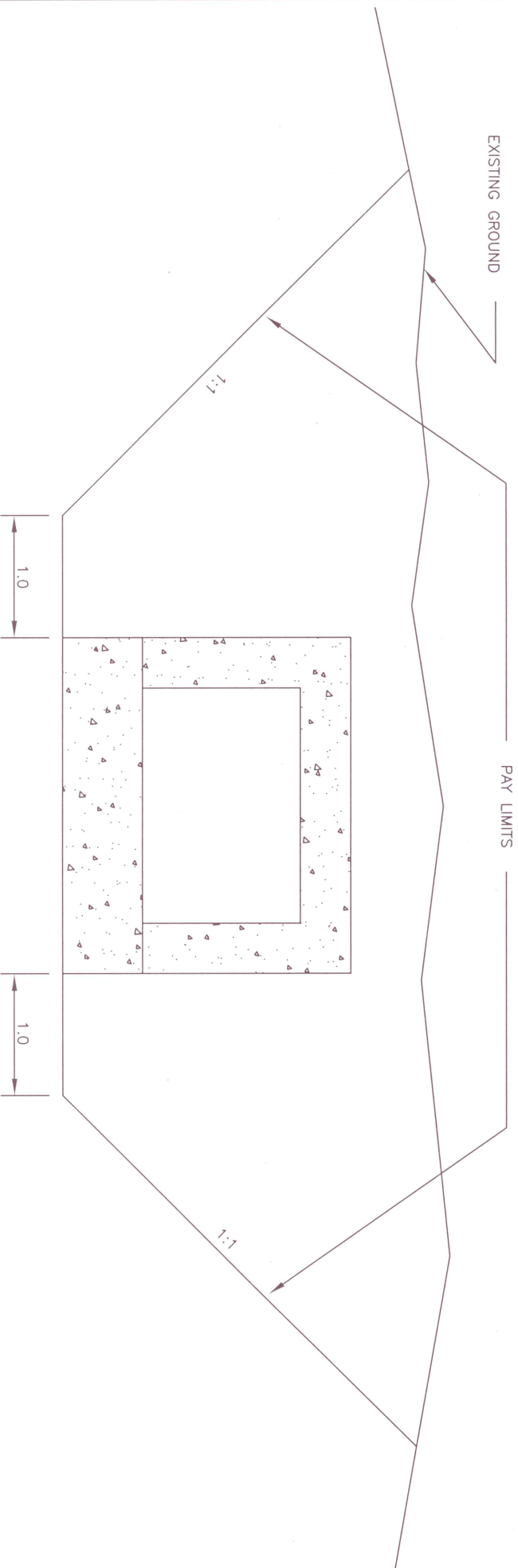
Scale : N.T.S.  
Drawn by : M.LABRECHE  
Checked by : J.RAE  
Date of Plan : AUG2009  
File No. : S-2009-071

*Philip Cohen*  
Manager Highway Planning and Design  
*[Signature]*  
Director Highway Engineering Services  
*[Signature]*  
Executive Director Highway Engineering and Construction

**GUARD RAIL AND POST DETAILS**  
**HS518**







- 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.

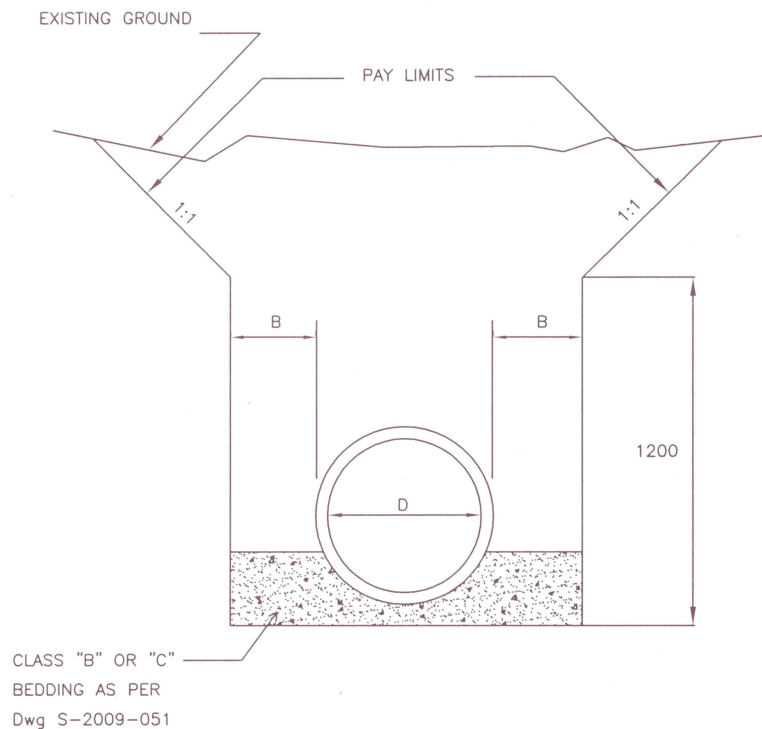
**NOVA SCOTIA**  
Transportation and Infrastructure Renewal

No.	1
REVISION	HS # ADDED TO TITLE

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

*Debo Colvin*  
Manager Highway Planning and Design  
*[Signature]*  
Director Highway Engineering Services  
*[Signature]*  
Executive Director Highway Engineering and Construction

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



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 Colburn*  
 Manager Highway Planning and Design

*[Signature]*  
 Director Highway Engineering Services

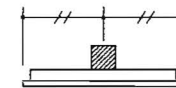
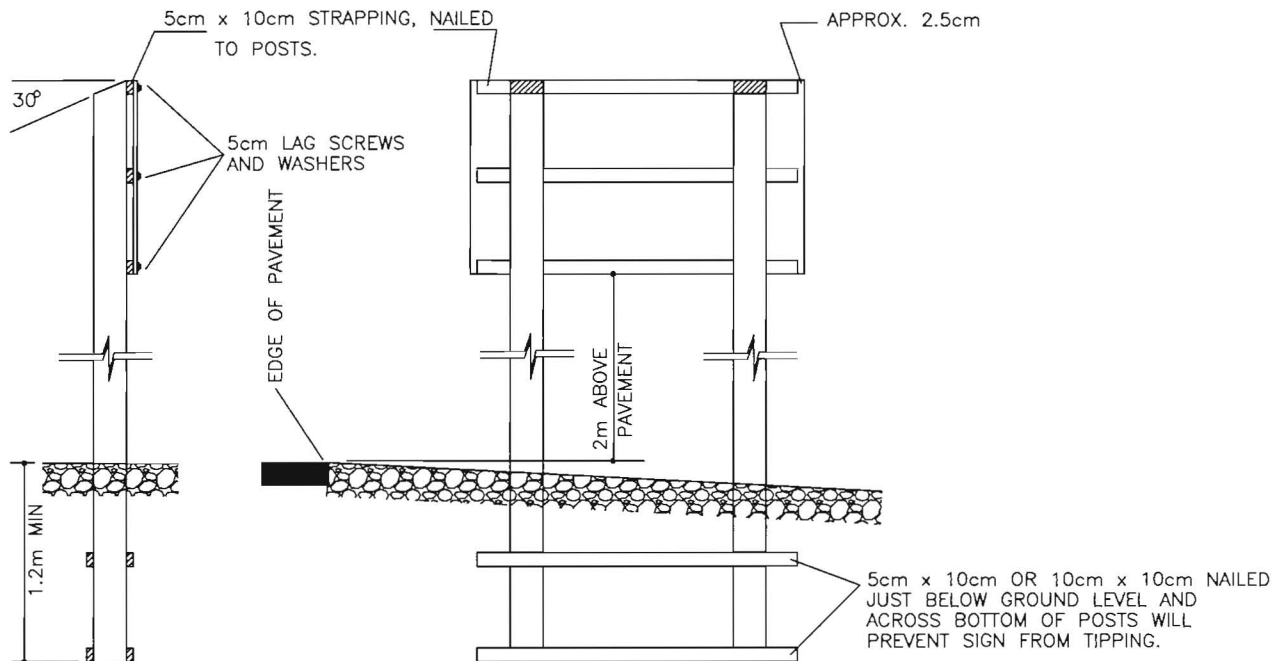
*[Signature]*  
 Executive Director Highway Engineering and Construction

**NOVA SCOTIA**

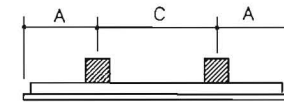
Transportation and Infrastructure Renewal

No.	1	HS # ADDED TO TITLE
REVISION		

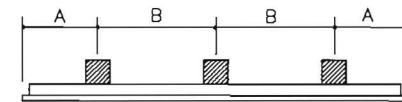
**FOUNDATION EXCAVATION LIMITS  
FOR CULVERTS HS-528**



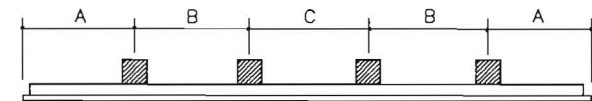
ONE POST



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

Manager Traffic Engineering Services

Director Highway Engineering Services

Executive Director Highway Engineering and Construction

**WOOD SIGN STRUCTURE  
ASSEMBLY DETAILS**

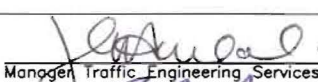
Sign Size	# of Posts	Post Size	Post Spacing		
			A	B	C
60 x 30 cm	1	10 x 10 cm	30 cm		
90 x 30 cm	1	10 x 10 cm	45 cm		
60 x 45 cm	1	10 x 10 cm	30 cm		
90 x 45 cm	1	10 x 10 cm	45 cm		
60 x 60 cm	1	10 x 10 cm	30 cm		
90 x 60 cm	1	10 x 10 cm	45 cm		
75 x 75 cm	1	10 x 10 cm	40 cm		
90 x 75 cm	1	10 x 10 cm	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:

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

  
 Manager Traffic Engineering Services

  
 Director Highway Engineering Services

  
 Executive Director Highway Engineering and Construction

## WOOD SIGN STRUCTURE POST SPACING CHART