



**BAR LIST NOTES:**

- DIAMETERS OF ALL BENDS AND DETAILS OF ALL HOOKS, UNLESS NOTED OTHERWISE, SHALL CONFORM TO THE RECOMMENDED SIZES DETAILED IN THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE, FIRST CANADIAN EDITION 1992, PUBLISHED BY THE REINFORCING INSTITUTE OF CANADA.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-G30.18M92 "BILLET STEEL BARS FOR CONCRETE REINFORCEMENT".
- ALL REINFORCING STEEL SHALL BE GRADE 400 UNLESS NOTED OTHERWISE.
- "C" DENOTES EPOXY COATED REINFORCEMENT.

**NOTES:**

1. ALL BARRIERS SHALL BE CAST IN PLACE BY STATIONARY FORMING OR SLIPFORMING.
2. PROVIDE 20 mm CHAMFER AT TOP EDGES OF BARRIER AND AROUND ALL EXPOSED EDGES OF EXPANSION AND CONSTRUCTION JOINTS.
3. CONCRETE SHALL BE MODIFIED CLASS C UNLESS OTHERWISE SPECIFIED (MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa).
4. BARRIERS ARE NON-REINFORCED EXCEPT AT FOOTING LOCATIONS.
5. BARRIER FOOTINGS SHALL BE PLACED ON EITHER SIDE OF ALL EXPANSION AND CONSTRUCTION JOINTS, AS WELL AS AT BARRIER ENDS.
6. PLACE BARRIER AND FOOTING MONOLITHICALLY. COLD JOINTS BETWEEN FOOTING AND BARRIER ARE NOT PERMITTED.
7. PLACEMENT OF FUTURE OVERLAYS ARE PERMITTED PROVIDED THAT THE HEIGHT OF BARRIER IS MAINTAINED AT LEAST 800 ABOVE FINISHED PAVEMENT.
8. CONTRACTION JOINTS SHALL BE FORMED EVERY 3 METRES EXCEPT WHERE SHORTER SPACING IS NECESSARY FOR CLOSURES.
9. BARRIER SHALL BE PLACED BY INSTRUMENT FOR ALIGNMENT AND GRADE.
10. THIS BARRIER MEETS THE CRASH TEST REQUIREMENTS OF NCHRP REPORT 350 FOR TEST LEVEL 3 (TL-3) AND IS THEREFORE ACCEPTABLE FOR USE ON HIGH SPEED ROAD FACILITIES.
11. TERMINATING THE SINGLE SLOPE CONCRETE BARRIER WITH A BLUNT END, AS SHOWN IN THIS DRAWING, IS RESTRICTED TO THE FOLLOWING APPLICATIONS:
  - ON THE LEAVING END OF BARRIERS INSTALLED ON THE ROADSIDE.
  - ON THE APPROACH END OF BARRIERS INSTALLED ON THE ROADSIDE, PROVIDED THAT THE BARRIER IS TERMINATED AT OR BEYOND THE CLEAR ZONE.
  - ON THE LEAVING END OF BARRIERS INSTALLED IN THE MEDIAN, PROVIDED THAT THE BARRIER IS TERMINATED AT OR BEYOND THE CLEAR ZONE FOR THE FLOW OF TRAFFIC IN THE OPPOSING DIRECTION.
12. WHEN THE CONDITIONS STATED IN NOTE 11 CANNOT BE MET, THE BLUNT END OF THE BARRIER SHALL BE SHIELDED USING AN APPROVED ENERGY ABSORBING END TERMINAL.
13. TAPERED END TREATMENTS ARE NOT CONSIDERED TO MEET THE REQUIREMENTS OF NCHRP REPORT 350 TL-3 AND SHOULD THEREFORE NOT BE USED WITHIN THE CLEAR ZONE.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.

**BAR LIST: BARRIER**

MARK	SIZE	NO.	TYPE	X	Y	Z	LENGTH	MASS
1501C	15	10	A	450	1 000	125	2 840	45
1502C	15	13	STR	-	-	-	2 850	58

EPOXY COATED TOTAL kg = 103

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No.	REVISIONS	BY	DATE

Approved:	
Allan Kwan Executive Director, Technical Standards Branch	
Date: NOVEMBER, 2007	

<b>TL-4 STANDARD SINGLE SLOPE CONCRETE BARRIER DETAILS</b>	
Prepared By: MO	Checked By: WS
Scale: N.T.S.	Dwg No.: RDG-B6.1

SUPERSEDED