



DOUBLE CORROSION PROTECTED TIE BACK ANCHOR
N.T.S.

- GENERAL NOTES:**
1. WORK INVOLVES RETIGHTENING ABUTMENT TIE-BACK ANCHORS TO MOVE ABUTMENTS. WORK TO REMOVE OR LESSEN POSSIBLE RESTRAINTS TO MOVEMENTS NOT INCLUDED.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORKS WITH CN RAIL AND OBTAIN ANY REQUIRED PERMISSIONS PRIOR TO COMMENCING CONSTRUCTION. WORK SHOULD NOT EFFECT THEIR OPERATIONS.
 3. VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO COMMENCING WORK.
 4. REPORT ANY UNSOUND CONDITIONS TO THE CONTRACT ADMINISTRATOR IMMEDIATELY.

- TIEBACK ANCHORS:**
1. TIEBACK ANCHORS ARE 25 DIA. DYWIDAG THREADBAR CSA G279-M1982 GRADE 1043 MPa (150 ksi) WITH DOUBLE CORROSION PROTECTION.
 2. DESIGN SERVICE LOAD (UNFACTORED) PER ANCHOR = 202 kN.

- RETIGHTENING SEQUENCE:**
1. ESTABLISH MOVEMENT MONITORING POINTS.
 2. JACK ANCHORS TO DETERMINE EXISTING TENSION.
 3. JACK ANCHORS IN SEQUENCE INDICATED TO 260 kN, MONITORING BAR ELONGATION AND MOVEMENTS.
 4. AFTER 4 HOURS MIN., CHECK AND RECORD TENSION IN ANCHORS. REJACK TO 260 kN.
 5. AFTER ADDITIONAL 72 HOURS MIN. CHECK AND RECORD TENSION IN ANCHORS. RESET LOAD TO 202 kN.

TIE BACK ANCHOR TIP ELEVATION	
NORTH ABUTMENT	223.000
SOUTH ABUTMENT	222.000

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

NOTE:			
S.M. ELEV.	DESIGNED BY:	ENGINEER'S SEAL	
	D.N.B.		
	DRAWN BY: M.R.T.		
	CHECKED BY: D.N.B.		
	APPROVED BY: D.N.B.		
	AUTHORIZED BY:		
0	ISSUED FOR TENDER	27/05/10	M.T.
NO.	REVISION	DATE	BY

<p>CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT TRANSPORTATION ENGINEERING DIVISION</p>		<p>SHEET 2 OF 2</p> <p>HORIZONTAL: N.T.S. VERTICAL: N.T.S.</p>
<p>ST. JAMES BRIDGE SOUTHBOUND (ASSINIBOINE RIVER) BRIDGE ABUTMENT TIE BACK ANCHOR RETIGHTENING</p>		
<p>TIE BACK ANCHOR DETAIL</p>		<p>CITY DRAWING NUMBER: B101-10-03</p>