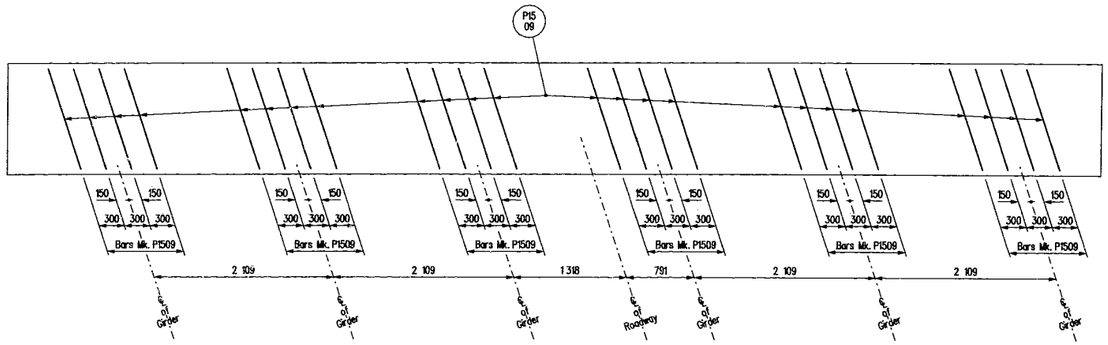
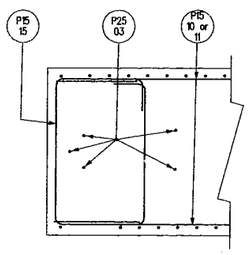
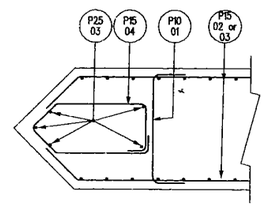


SECTION L-L

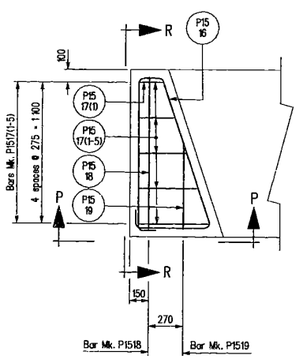
Scale 1 : 30



PART SECTION M-M

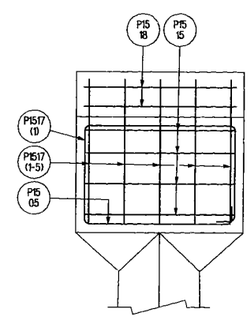


PART SECTION N-N

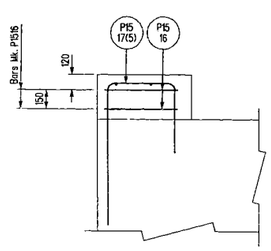


TOP VIEW O-O

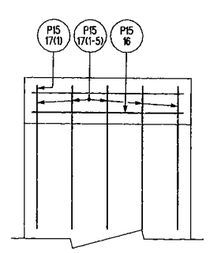
Showing parapet reinforcing. Similar for both parapets.



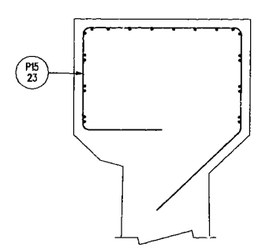
END VIEW S-S



FRONT VIEW P-P



END VIEW R-R



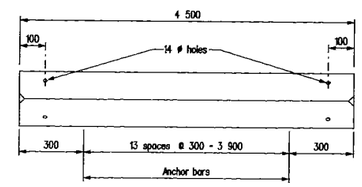
SECTION T-T

BILL OF ICE BREAKERS

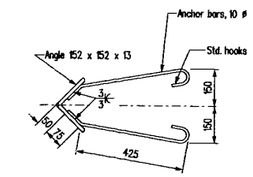
SITE No. 693-02

MARK	No.	DESCRIPTION	LOCATION	COMPONENT MASS	TOTAL MASS
	2	Ice breaker units - to be fabricated from:	SU.2 & SU.3		283.30
		1 - L152 x 152 x 13, 4 500 long		130.50	
		28 anchor bars, 10 ø x 640 long (plain bars, weldable steel grade 300W)		11.05	
		4 square nuts for 12 ø bolts		0.10	
				141.65	
				TOTAL MASS (kg) =	283.30

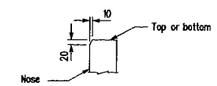
NOTES : 1. All material in the above Bill shall be galvanized in accordance with CAN/CSA-G164-M92
2. Seal all welds prior to galvanizing.



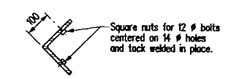
PLAN
Not To Scale



END VIEW



PART SIDE ELEVATION



CROSS SECTION

ICE BREAKER UNIT

NOTE: Angle to be chemically descaled and cleaned. The anchor bars to be bent to required shape before welding to angle. Unit to be completely galvanized after the fabrication is completed.

NOTES:

1. Concrete cover shall be 60 mm unless noted otherwise.
2. For locations of SECTION L-L, PART SECTION M-M, PART SECTION N-N, TOP VIEW O-O, END VIEW S-S and SECTION T-T see Sheet No. 21.

REVISIONS		
OCT 31/07	R.A	AS BUILT
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA — S. L. DONACHUK — Oct 11/05 — REGISTERED ENGINEER

PIER REINFORCING DETAILS

FOR PROPOSED 69 714 LONG R.C. BRIDGE
OVER SEINE RIVER DIVERSION
ON P.T.H. No. 59 SOUTH BOUND LANES, 10 900 ROADWAY
IN SEC. 28-8-4E

R.M. OF RITCHOT

Manitoba Transportation and Government Services
Bridges and Structures Branch

RELEASED FOR CONSTRUCTION
BY: _____ Oct-12/05
DIRECTOR OF BRIDGES AND STRUCTURES — DATE

DESIGN	BY: S.L.D.	SCALE: 1:20 or As Shown
	CHECKED: A.H.P.	SHEET No. 23
DETAILS	BY: M.S. / D.P.W.	SITE No. 693-02
	CHECKED: S.L.D.	

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