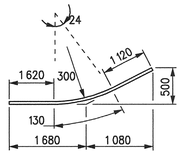
BILL OF REINFORCING STEEL (MMFX - 2)
FOR STAGE 1 DECK AND SIDEWALK

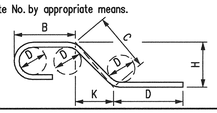
Site No.
2924-00

MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
D1678	STR		8 000	45	558.72	
D1901	BENT		2 880	336	2162.76	

Total mass of reinforcing steel	47297.38 kg
Total volume of structural concrete	353.02 m³

NOTES:

1. All dimensions given in bending diagram are out to out, except radii and extensions on 90°, 135° & 180° hooks. Extensions on 90°, 135° & 180° hooks are the "A" or "C" dimensions for standard 90°, 135° & 180° hooks referenced from the RSIC "Manual of Standard Practice". Radii are inside dimensions. All reinforcing steel bends and hooks for low carbon chromium steel bars shall conform to the same requirements listed for C.S.A. G30.18 Grade 400W in Clause 6.6.2 of C.S.A. A23.1-04, unless noted otherwise in the BILL OF REINFORCING STEEL (MMFX - 2).
2. All reinforcing steel shall be deformed steel, unless noted otherwise in the BILL OF REINFORCING STEEL (MMFX - 2)
3. All reinforcing steel shall be low carbon chromium steel bars conforming to ASTM A615 Grade 75 and ASTM A1035 unless noted otherwise in the BILL OF REINFORCING STEEL (MMFX - 2)
4. Like bars shall be bundled, securely tied and identified as to Mark and Site No. by appropriate means. All other items to be identified in a similar fashion.
5. All bars shall be bent in accordance with the following detail:



NOTES:

1. Prior to placing sidewalk concrete, form drain recess in sidewalk as shown in the details.
2. Contraction joint backer rod & joint sealant to be supplied by the Bridge Contractor.

REVISIONS		
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA
March 15/10
S.S
RIHAL
REGISTERED PROFESSIONAL ENGINEER

DECK REPLACEMENT - STAGE 1
REINFORCING DETAILS

RECONSTRUCTION AND STRENGTHENING OF EXISTING BRIDGE
OVER ASSINIBOINE RIVER - CONTRACT THREE
ON P.T.H. No. 100 IN R.L.'S 72, 73 & 94
PARISH OF ST. CHARLES

CITY OF WINNIPEG

Manitoba
Infrastructure and Transportation
Water Control & Structures

RELEASED FOR CONSTRUCTION
BY:
Ruth Edelson March 15/10
DIRECTOR — DATE
STRUCTURES DESIGN AND CONSTRUCTION BRANCH

DESIGN	BY: M.B.C.	SCALE: Not to Scale
	CHECKED: S.S.R.	SHEET No. 79
DETAILS	BY: D.P.W.	
	CHECKED: S.S.R./J.J.	SITE No. 2924-00