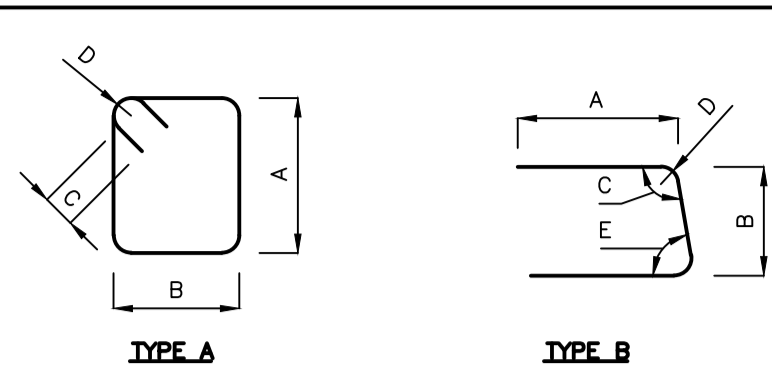


**BILL OF REINFORCING STEEL**

STRAIGHT BARS				PIER CAPS									
MARK	QTY.	LENGTH (mm)	MASS (kg)	MARK	QTY.	TYPE	A	B	C	D	E	LENGTH (mm)	MASS (kg)
P2501	24	15560	1465.8	P2001	464	A	1030	765	120	120		2035	2223.7
P3002	96	15560	8208.2	P2002	16	A	1030	780	120	120		2050	77.2
P3003	32	6500	1143.0	P2003	16	A	1030	820	120	120		2090	78.8
				P2004	16	A	1030	880	120	120		2150	81.0
				P2005	16	A	1030	960	120	120		2230	84.0
				P2006	24	B	300	1345	130	120	50	1945	109.9
				P2007	32	B	300	1030	90	120	90	1630	122.8
<b>TOTAL MASS OF REINFORCING STEEL</b>													<b>13594.4 kg</b>

**BAR TYPES**



**BILL OF REINFORCING STEEL**

STRAIGHT BARS				CAISSON									
MARK	QTY.	LENGTH (mm)	MASS (kg)	MARK	QTY.	TYPE	A	B	C	D	E	LENGTH (mm)	MASS (kg)
C2501	480	8000	15072.0										
C2502	480	4150	7818.6										
C2503	480	14700	27694.8										
<b>TOTAL MASS OF REINFORCING STEEL</b>													<b>50585.4 kg</b>

**BAR TYPES**

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Date: 2011 Dec 20 3:17pm Login: Beerncoerts, James

**APEGM**  
Certificate of Authorization  
Stantec Consulting Ltd.  
No. 1301 Date: \_\_\_\_\_  
**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**LOCATION APPROVED UNDERGROUND STRUCTURES**  
SUPV. U/G STRUCTURES COMMITTEE DATE \_\_\_\_\_  
**NOTE:**  
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.	NO.	REVISIONS	DATE	BY
	0	ISSUED FOR TENDER	11.12.15	K.S.A.

**Stantec Consulting Ltd.**  
100-1355 Taylor Ave., Winnipeg, Manitoba  
Tel 204-928-8840 Fax 204-284-4795

DESIGNED BY <b>K.S.A.</b>	CHECKED BY <b>K.S.A.</b>
DRAWN BY <b>J.M.B.</b>	APPROVED BY <b>B.J.W.</b>
HOR. SCALE: 1:10 VERTICAL: U.N.O.	RELEASED FOR CONSTRUCTION: DATE _____

ENGINEER'S SEAL  
CONSULTANT DRAWING NO.  
**S-305**

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

**STURGEON ROAD**  
BRIDGE REPLACEMENT  
PORTAGE AVENUE TO HALLONQUIST DRIVE  
REINFORCING SCHEDULES FOR  
ABUTMENTS & PIERS

SHEET **30** OF **82**  
CAD FILE DRAWING NUMBER  
31590s-301-767.dwg  
CITY DRAWING NUMBER  
**B120-12-030**