

File: P:\2017\17m-02091-00 - Professional Consulting Services for Chief Peguis Greenway Extension from main street to Henderson Highway\WSP\DWG\Structural\17m-02091-00\_CPT\_Greenway\_DD\_22\_bill\_of\_materials.dwg | Layout: 22\_Bills of Material (Sheet 1 of 2) | Last saved by: deniff | February 22, 2018 at 1:08:44 PM | A1 SIZE (594 mm x 841 mm)

BILL OF REINFORCING STEEL FOR SIX DECK DRAINS						
MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
D1001S	BENT	65	1 600	48	60.29	
D1002S	BENT	65	420	72	23.74	
D1003S	STR		1 180	24	22.23	
D1004S	STR		630	24	11.87	
<b>TOTAL MASS OF REINFORCING STEEL:</b>					<b>118.13 kg</b>	

BILL OF REINFORCING STEEL FOR TRAFFIC BARRIER						
MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
B1601	BENT	95	1 350	1 139	2 386.43	
B1602	BENT	95	965	1 139	1 705.86	
B1603	STR		5 625	539	4 705.47	
B1604	STR		5 818	22	198.65	
B1605	STR		6 150	22	209.99	
B1606	STR		2 920	22	99.70	
B1607	BENT	95	800	30	37.25	
B1901	BENT	120	1 395	1 109	3 457.67	
B1902	BENT	120	1 345	12	36.07	
B2501	STR		550	165	360.55	
<b>TOTAL MASS OF REINFORCING STEEL:</b>					<b>13 197.64 kg</b>	

BILL OF REINFORCING STEEL FOR CONCRETE STAIRS						
MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
S1001	BENT	65	1 140	8	7.16	
S1002	BENT	65	1 850	7	10.17	
S1003	BENT	65	1 040	6	4.90	
S1501	STR		1 255	12	23.64	
S1502	BENT	95	2 015	4	12.65	
S1503	BENT	95	2 005	4	12.59	
S1504	STR		2 000	14	43.96	
S1505	STR		1 000	6	9.42	
<b>TOTAL MASS OF REINFORCING STEEL:</b>					<b>124.49 kg</b>	

BILL OF REINFORCING STEEL FOR TWO CONCRETE PATHWAY						
MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
P1001	BENT	65	600	242	113.98	
P1002	STR		9 000	6	42.39	
P1003	STR		11 200	2	17.58	
P1501	STR		9 000	234	3 306.42	
P1502	STR		11 200	78	1 371.55	
P1503	STR		4 110	242	1 561.55	
P1504	STR		4 635	242	1 761.02	
P1505	BENT	95	1 370	242	520.52	
P1506	BENT	95	1 265	242	480.62	
P1507	BENT	95	1 280	242	486.32	
P1508	BENT	95	1 080	242	410.34	
P1509	STR		975	242	185.22	
<b>TOTAL MASS OF REINFORCING STEEL:</b>					<b>10 257.51 kg</b>	

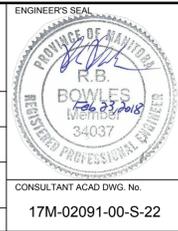


LOCATIONS APPROVED UNDERGROUND STRUCTURES			
SIGNED BY:	DATE	G.B.M.	ELEV.
		-	-
		-	-

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.

No.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	18.02.23	JL

<b>wsp</b>		WSP Canada Group Limited 93 Lombard Avenue, Suite 111 Winnipeg MB R3B 3B1 T+ 1 204-943-3178 F+ 1 204-943-4948 www.wsp.com	
DESIGNED BY	BB	CHECKED BY	WC
DRAWN BY	CP	APPROVED BY	JL
HOR. SCALE	###	RELEASED FOR CONSTRUCTION	
VERTICAL	###	DATE	18.02.23



<b>THE CITY OF WINNIPEG</b> PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION		CITY DRAWING NUMBER <b>B216-18-22</b>
<b>CHIEF PEGUIS TRAIL - GREENWAY EXTENSION</b> KILDONAN SETTLERS BRIDGE MODIFICATIONS		SHEET <b>22</b> OF <b>26</b>
BILLS OF MATERIAL (SHEET 1 OF 2)		BID OPPORTUNITY NUMBER <b>4-2018</b>

**METRIC**  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.