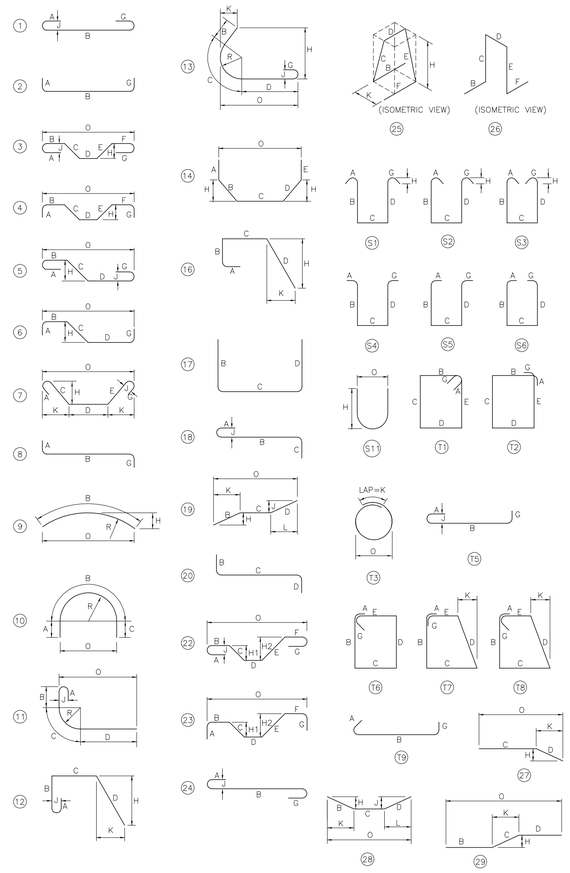
A1 SIZE 23.4" x 33.1" (594mm x 841mm)

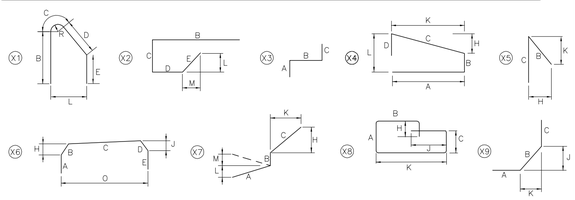
MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
CONCRETE LAYOUT 4 - GALVANIZED 1																				
R15401X	14	15	2900	STR															—	63.7
R15402X	2	15	975	STR															—	3.0
R15403X	2	15	1925	STR															—	6.0
R15404X	2	15	2875	STR															—	9.0
R15405X	2	15	3030	STR															—	9.5
R15406X	2	15	2060	STR															—	6.4
R15407X	2	15	2160	STR															—	6.7
R15408X	2	15	2255	STR															—	7.0
R15409X	2	15	2355	STR															—	7.3
R15410X	2	15	2450	STR															—	7.6
R15411X	2	15	2550	STR															—	8.0
R15412X	2	15	2650	STR															—	8.3
R15413X	2	15	2745	STR															—	8.6
R15414X	2	15	2845	STR															—	8.9
R15415X	2	15	2940	STR															—	9.2
R15416X	2	15	2990	STR															—	9.3
																			TOTAL	178.5
CONCRETE LAYOUT 5 - GALVANIZED 1																				
R15501X	32	15	3200	STR															—	160.7
R15502X	2	15	520	STR															—	1.6
R15503X	1	15	1000	STR															—	1.5
R15504X	2	15	1480	STR															—	4.6
R15505X	1	15	1960	STR															—	3.0
R15506X	2	15	2440	STR															—	7.6
R15507X	1	15	2915	STR															—	4.5
R15508X	2	15	3335	STR															—	10.4
R15509X	2	15	3040	STR															—	9.5
R15510X	2	15	3140	STR															—	9.8
R15511X	2	15	3235	STR															—	10.1
R15512X	2	15	3335	STR															—	10.4
R15513X	2	15	3430	STR															—	10.7
R15514X	2	15	3530	STR															—	11.0
R15515X	2	15	3625	STR															—	11.3
R15516X	2	15	3725	STR															—	11.6
R15517X	2	15	3820	STR															—	11.9
R15518X	2	15	3920	STR															—	12.3
R15519X	2	15	4020	STR															—	12.6
R15520X	2	15	4060	STR															—	12.7
																			TOTAL	327.8
CONCRETE LAYOUT 6 - GALVANIZED 1																				
R15601X	32	15	3270	STR															—	164.2
R15602X	24	15	3500	STR															—	131.8
R15603X	24	15	1585	STR															—	59.7
																			TOTAL	355.7
CONCRETE LAYOUT 7 - GALVANIZED 1																				
R15701X	24	15	3275	STR															—	123.4
R15702X	24	15	2500	STR															—	94.2
R15703X	24	15	1500	STR															—	56.5
																			TOTAL	274.1
CONCRETE LAYOUT 7B - GALVANIZED 1																				
R15701X	21	15	3275	STR															—	107.9
R15702X	12	15	2500	STR															—	47.1
R15703X	12	15	1500	STR															—	28.2
R15704X	6	15	2600	STR															—	24.4
R15705X	6	15	2550	STR															—	24.0
R20701X	10	20	3275	STR															—	77.1
R20001X	24	20	1295	2	60	1175					60									73.1
R20002X	12	20	2570	X2		1325	300	520	425							300	300			72.6
																			TOTAL	454.4

MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
CONCRETE LAYOUT 8 - GALVANIZED 1																				
R15801X	20	15	3280	STR															—	102.9
R15802X	2	15	570	STR															—	1.7
R15803X	2	15	1525	STR															—	4.7
R15804X	2	15	2475	STR															—	7.7
R15805X	2	15	3415	STR															—	10.7
R15806X	2	15	2580	STR															—	8.1
R15807X	2	15	2675	STR															—	8.3
R15808X	2	15	2770	STR															—	8.6
R15809X	2	15	2870	STR															—	9.0
R15810X	2	15	2970	STR															—	9.3
R15811X	2	15	3065	STR															—	9.6
R15812X	2	15	3165	STR															—	9.9
R15813X	2	15	3260	STR															—	10.2
R15814X	2	15	3355	STR															—	10.5
R15815X	2	15	3455	STR															—	10.8
R15816X	2	15	3550	STR															—	11.1
R15817X	2	15	3620	STR															—	11.3
																			TOTAL	244.4
CONCRETE LAYOUT 9 - GALVANIZED 1																				
R15901X	30	15	3420	STR															—	161.0
R15902X	26	15	3500	STR															—	142.8
R15903X	26	15	1470	STR															—	60.0
																			TOTAL	363.8
CONCRETE LAYOUT 10B - GALVANIZED 1																				
R151001X	47	15	3420	STR															—	252.3
R151002X	12	15	2500	STR															—	47.1
R151003X	12	15	1420	STR															—	26.7
R151004X	6	15	2550	STR															—	24.0
R151005X	7	15	2500	STR															—	27.4
R201001X	10	20	3420	STR															—	80.5
R20001X	26	20	1295	2	60	1175					60									79.2
R20002X	13	20	2570	X2		1325	300	520	425						300	300				78.6
																			TOTAL	615.8
CONCRETE LAYOUT 11 - GALVANIZED 1																				
R151101X	30	15	3420	STR															—	161.0
R151102X	2	15	395	STR															—	1.2
R151103X	2	15	1330	STR															—	4.1
R151104X	2	15	2665	STR															—	8.3
R151105X	2	15	3200	STR															—	10.0
R151106X	2	15	3580	STR															—	11.2
R151107X	2	15	1425	STR															—	4.4
R151108X	2	15	1520	STR															—	4.7
R151109X	2	15	1620	STR															—	5.0
R151110X	2	15	1720	STR															—	5.4
R151111X	2	15	1815	STR															—	5.6
R151112X	2	15	1915	STR															—	6.0
R151113X	2	15	2010	STR															—	6.3
R151114X	2	15	2115	STR															—	6.6
R151115X	2	15	2210	STR															—	6.9
R151116X	2	15	2310	STR															—	7.2
R151117X	2	15	2410	STR															—	7.5
R151118X	2	15	2475	STR															—	7.7
R151119X	2	15	2530	STR															—	7.9
																			TOTAL	277.0
CONCRETE LAYOUT 12 - GALVANIZED 1																				
R151201X	30	15	3045	STR															—	143.4
R151202X	22	15	3000	STR															—	103.6
R151203X	22	15	1620	STR															—	55.9
																			TOTAL	302.9

DWG TOTAL WEIGHT = 3394.4 kg GALVANIZED 1



A.C.I. - TYPICAL BAR BENDS



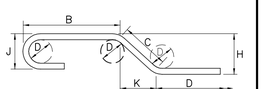
SPECIAL BAR BENDS

NOTES:

1. ALL DIMENSIONS ARE OUT-TO-OUT OF A BAR EXCEPT 'A' AND "G" ON STANDARD 180° AND 135° HOOKS.
2. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
3. ON TRUSS BARS "J" WILL BE KEPT EQUAL TO OR LESS THEN "H". WHERE "J" CAN EXCEED "H" IT SHOULD BE SHOWN.
4. THE STIRRUPS "H" DIMENSION SHOULD BE SHOWN ONLY WHERE NECESSARY TO FIT WITHIN CONCRETE.
5. CRITICAL DIMENSIONS ARE TO BE IDENTIFIED WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING TOLERANCES.
6. ON TYPE T3 "G" DIMENSION IS EQUAL TO CLASS C SPLICE.
7. FIGURES SHOWN IN CIRCLES SHOWN TYPES.
8. ALL BAR BENDS OTHER THAN THE TYPES SHOWN ABOVE MUST BE DESIGNATED TYPE "X".

APEGM
Certificate of Authorization
AECOM Canada Ltd.
Original dated on:
No. 4671 Date: 2010/03/24

UNLESS OTHERWISE NOTED DIAMETER D IS THE SAME FOR ALL HOOKS AND BENDS ON A BAR.



ENLARGED VIEW SHOWING BAR BENDING DETAILS

BID OPPORTUNITY NO. 133-2010

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR, 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.

BM 00-000
ELEV 200.000m

NO.	REVISIONS	YY/MM/DD	BY
1	ISSUED FOR ADDENDUM 2	10/04/12	DJH
0	ISSUED FOR CONSTRUCTION	10/03/24	CPK

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DESIGNED BY	AP	CHECKED BY	SBB / CGC
DRAWN BY	CPK	APPROVED BY	
HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
VERT. SCALE	AS NOTED		
DATE	YY/MM/DD	DATE	

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA — ORIGINAL SIGNED — A. POCHANART — Member 30017 — MARCH 24/2010 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
0265-412-00_01-S-0803_RX.dwg

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

JUBILEE AVENUE OVERPASS REHABILITATION

REINFORCING SCHEDULE III

CITY DRAWING NUMBER: B124-10-27
SHEET 27 OF 51
DRAWING No. 27
REV 1

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