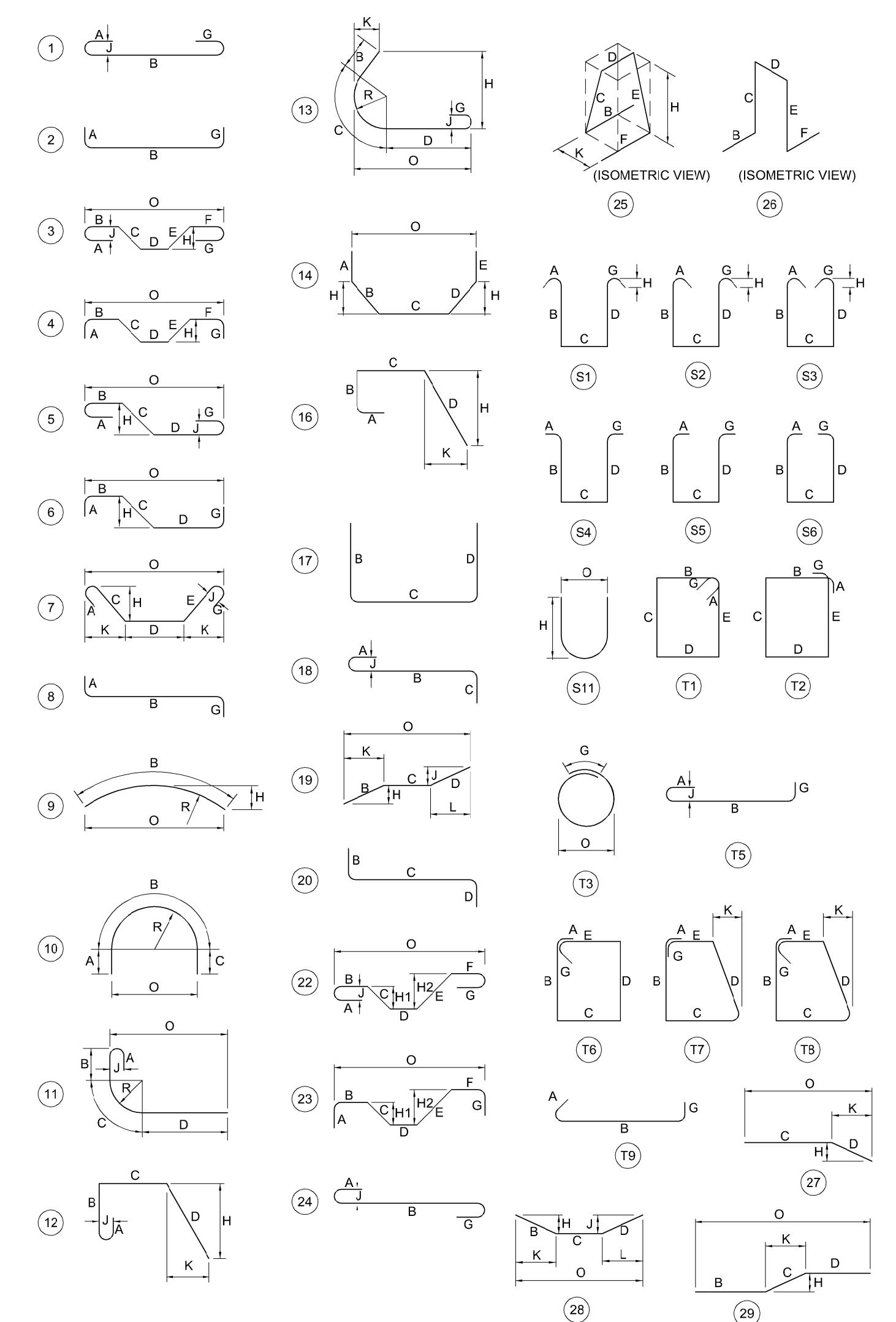
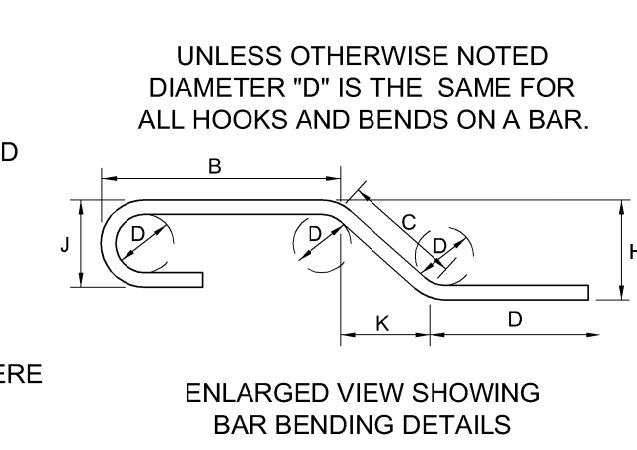


MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
BARRIER WALL/SIDEWALK																				
W1001X	20	10X	1385	X1		250	190	215	130	600		215		133						42.99
W1601X	871	16X	2512	X1		600	357	210	275	1070		245		260						3395.70
W1602X(1)	374	16X	2580	STR																1497.56
W1602X(2)	68	16X	2780	STR																293.39
W1602X(3)	56	16X	2980	STR																259.00
W1602X(4)	72	16X	2230	STR																249.19
W1602X(5)	102	16X	2450	STR																387.84
W1602X(6)	102	16X	2680	STR																424.25
W1602X(7)	122	16X	2900	STR																549.10
W1602X(8)	54	16X	2610	STR																218.74
W1602X(9)	456	16X	2480	STR																1755.13
W1602X(10)	72	16X	2000	STR																223.49
W1602X(11)	150	16X	1750	STR																407.40
W1602X(12)	102	16X	1960	STR																310.28
W1602X(13)	146	16X	2160	STR																489.44
W1602X(14)	28	16X	3060	STR																132.98
W1603X	1904	16X	1500	17		600	900													4432.51
W1604X(1)	1482	16X	1175	STR																2702.58
W1604X(2)	96	16X	1340	STR																199.65
W1604X(3)	110	16X	1500	STR																256.08
W1604X(4)	110	16X	1700	STR																290.22
W1604X(5)	34	16X	1910	STR																100.79
W1604X(6)	72	16X	760	STR																84.93
W1604X(7)	26	16X	940	STR																37.93
W1604X(8)	34	16X	1000	STR																52.77
W1604X(9)	34	16X	1110	STR																58.57
W1604X(10)	34	16X	1285	STR																67.81
W1604X(11)	34	16X	1470	STR																77.57
W1605X(1)	1132	16X	4880	STR																8573.50
W1605X(2)	64	16X	3935	STR																390.86
W1605X(3)	102	16X	4895	STR																774.90
W1605X(4)	86	16X	3300	STR																440.46
W1605X(5)	30	16X	5130	STR																238.85
W1605X(6)	108	16X	5030	STR																843.11
W1605X(7)	40	16X	3675	STR																228.14
W1605X(8)	68	16X	3970	STR																418.98
W1605X(9)	86	16X	3380	STR																451.14
W1605X(10)	52	16X	3220	STR																259.87
W1606X	6	16X	2760	16			900	1860				755		1700						25.70
W1607X	444	16X	780	17		300	180	300												537.49
W1608X	162	16X	1500	17		600	900													377.14
W1609X	20	16X	1500	17		300	1200													46.56
W1610X	801	16X	1620	6		600	545	215			260	385				1200				2013.91
W1611X	4	16X	12000	STR																74.50
W1612X	4	16X	6000	STR																37.25
W1613X	50	16X	1595	T7	140	340	425	335	355					70						123.77
W1614X	100	16X	800	STR																124.16
W2501X	630	25X	600	STR																1501.79
TOTAL MASS: BARRIER WALL/SIDEWALK (kg)																				36436.93

MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
MEDIAN BARRIER																				
M1601X	600	16X	2335	2	180	1975					180									2174.35
M1602X	80	16X	1385	X2	300	315	490					280					570			128.97
M1603X	100	16X	4170	STR																647.18
M1604X	80	16X	453	16								453		85						42.18
M1605X	532	16X	1560	X2	300	315	600					345					630			1288.04
M1606X	60	16X	690	16								690		72						64.25
M1607X	312	16X	4870	STR																2358.17
M1608X	204	16X	2740	14		700	650	700				690					800			867.51
M1609X	56	16X	4770	STR																414.57
M1610X	48	16X	2370	16			1020	660				690		70						176.56
M1611X	8	16X	3060	14		660	1050	660				690		70						37.99
M1612X	8	16X	1150	17		300	850													14.28
M1613X	4	16X	2400	17		720	960	720												14.90
M1614X	108	16X	1075	STR																180.19
M1615X	10	16X	770	STR																11.95
M1616X	50	16X	2650	STR																205.64
M2501X	158	25X	600	STR																376.64
TOTAL MASS: MEDIAN BARRIER (kg)																				9003.37



- NOTES:
- ALL DIMENSIONS ARE OUT-TO-OUT OF A BAR EXCEPT 'A' AND 'G' ON STANDARD 180° AND 135° HOOKS.
 - 'J' DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
 - ON TRUSS BARS 'J' WILL BE KEPT EQUAL TO OR LESS THEN 'H'. WHERE 'J' CAN EXCEED 'H' IT SHOULD BE SHOWN.
 - THE STIRRUPS 'H' DIMENSION SHOULD BE SHOWN ONLY WHERE NECESSARY TO FIT WITHIN CONCRETE.
 - CRITICAL DIMENSIONS ARE TO BE IDENTIFIED WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING TOLERANCES.
 - ON TYPE T3 'G' DIMENSION IS EQUAL TO CLASS C SPLICE.
 - FIGURES SHOWN IN CIRCLES SHOW TYPES.
 - ALL BAR BENDS OTHER THAN THE TYPES SHOWN ABOVE MUST BE DESIGNATED TYPE 'X'.
 - 's' DENOTES LONGER BARS AND SHOULD BE USED FOR THE TOP BECAUSE EXTRA LAP REQUIRED ON TOP.



APCGM
 Certificate of Authorization
Dillon Consulting Limited (MB)
 No. 1789 Date: 18/03/16

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UNDERGROUND STRUCTURES SUPPLY U/G STRUCTURES DATE	B.M. ELEV.	DESIGNED BY DRA		ENGINEER'S SEAL		THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT
		DRAWN BY KNL/CCG/DJB				
		CHECKED BY DRA		CONSULTANT PROJECT NUMBER 17-6152		CITY DRAWING NUMBER U212-18-CS-026-R0
		APPROVED BY TJP				SHEET 026 OF 026
		HOR. SCALE -				CONSULTANT DRAWING NUMBER CS-026
		VERTICAL -				
		NO. REVISIONS				
		DATE BY DATE				