

MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
NORTH RETAINING WALL																				
RW1601X	102	16	2 520	4		500	580	360	580	500							2260			398.93
RW1602X	198	16	2 020	4			580	360	580	500							1760			620.74
RW1603X	143	16	4 100	STR																909.94
RW1604X(1)	125	16	970	STR																188.18
RW1604X(2)	185	16	1 570	STR																450.78
RW1604X(3)	105	16	1 370	STR																223.26
RW1604X(4)	60	16	1 170	STR																108.95
RW1605X	4	16	6 100	STR																37.87
RW1606X	8	16	2 975	X8		500	640	635	1200				450	290	0					36.94
RW1607X	6	16	2 975	X8		500	640	635	1200				450	290	45					27.70
RW1608X	4	16	2 975	X8		500	640	635	1200				450	290	0					18.47
C1601X	444	16	1 140	17		230	680	230												785.56
C1602X	520	16	1 690	X9		450	290	180	320	450			305							1 363.90
C1603X(1)	144	16	4 100	STR																916.30
C1603X(3)	8	16	4 380	STR																54.38
C1603X(4)	40	16	3 115	STR																193.38
C1604X	24	16	1 150	17		800	200	150												42.84
C2501X	12	25	600	STR																28.61
TOTAL MASS: NORTH RETAINING WALL (kg)																			6 406.70	
SOUTH RETAINING WALL																				
RW1601X	70	16	2 520	4		500	580	360	580	500							2260			273.77
RW1602X	134	16	2 020	4			580	360	580	500							1760			420.10
RW1603X	96	16	4 100	STR																610.87
RW1604X(5)	227	16	1 640	STR																577.78
RW1604X(6)	2	16	1 560	STR																4.84
RW1604X(7)	2	16	1 490	STR																4.62
RW1604X(8)	2	16	1 415	STR																4.39
RW1604X(9)	2	16	1 350	STR																4.19
RW1604X(10)	2	16	1 270	STR																3.94
RW1604X(11)	2	16	1 210	STR																3.76
RW1604X(12)	2	16	1 130	STR																3.51
RW1604X(13)	2	16	1 060	STR																3.29
RW1604X(14)	2	16	995	STR																3.09
RW1604X(15)	2	16	920	STR																2.86
RW1604X(16)	2	16	845	STR																2.62
RW1604X(17)	2	16	770	STR																2.39
RW1604X(18)	2	16	695	STR																2.16
RW1604X(19)	2	16	620	STR																1.92
RW1604X(20)	2	16	580	STR																1.80
RW1604X(21)	2	16	500	STR																1.55
RW1604X(22)	2	16	425	STR																1.32
RW1604X(23)	28	16	315	STR																13.69
RW1609X	2	16	3 220	STR																9.99
RW1610X	2	16	2 030	STR																6.30
RW1611X	2	16	830	STR																2.58
RW1612X	4	16	3 700	STR																22.97
RW1613X	4	16	2 135	17		300	635	1200												13.25
RW1614X	4	16	1 590	3	180	350	560	500				430	130							9.87
C1603X(1)	119	16	4 100	STR																757.22
C1603X(4)	14	16	3 115	STR																67.68
C1605X	247	16	1 570	X5		530	890	150									830			601.85
C1606X	2	16	1 575	X6			650	775	150				375				1350			4.89
C1607X(1)	2	16	1 970	17		850	270	850												6.11
C1607X(2)	2	16	2 880	17		1070	540	1070												8.32
C1607X(3)	4	16	3 410	17		1310	790	1310												21.17
C1608X	2	16	1 350	X6		330	475	395	150				175							4.19
C2501X	2	25	600	STR																4.77
TOTAL MASS: SOUTH RETAINING WALL (kg)																			3 489.63	

MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
ROADWAY SHOULDER BARRIER																				
F1601X(1)	1080	16	2 850	STR																4 777.06
F1601X(2)	40	16	2 445	STR																151.79
F1602X(1)	413	16	3 000	17		250	2500	250												1 922.93
F1603X(1)	413	16	3,000	X5		250	2500	250				115								1,922.93
F1604X	413	16	1,700	2	260	1440														1,089.66
F1605X	380	16	1,735	X3	260	975	500					270						530		1,023.23
F1606X	380	16	1,590	T7		690	210	690						75						937.72
F1607X	33	16	1,385	8	260	865						260								70.93
F1608X	18	16	1,050	16		600	450					270								29.33
F1609X(1)	3	16	1,590	T7		690	210	690						65						7.40
F1609X(2)	3	16	1,590	T7		690	210	690						50						7.40
F1609X(3)	3	16	1,590	T7		690	210	690						40						7.40
F1609X(4)	3	16	1,590	T7		690	210	690						25						7.40
F1609X(5)	3	16	1,590	T7		690	210	690						15						7.40
F1609X(6)	3	16	1,590	T7		690	210	690												7.40
F1610X	15	16	1,200	STR																27.94
F1611X	15	16	1,610	17		690	230	690												37.48
F2501X	88	25	600	STR																209.77
TOTAL MASS: ROADWAY SHOULDER BARRIER (kg)																			12 245.19	
TOTAL MASS OF CHROMX =																			22,141.51 kg	

A.C.I. - TYPICAL BAR BENDS

SPECIAL BAR BENDS

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 THAN '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'.

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

ENLARGED VIEW SHOWING BAR BENDING DETAILS

G:\CAD\175932\Drawings\Structural\Underpass\CON-CS-REINF-SCHED_RW.dwg



DESIGNED BY	DRA	CHECKED BY	SSR
DRAWN BY	MG	APPROVED BY	MBL
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN		
NO. REVISIONS	DATE	BY	DATE
1	ADDENDUM #5	18/03/16	DRA
0	ISSUED FOR TENDER	18/02/09	DRA
		2018/02/09	