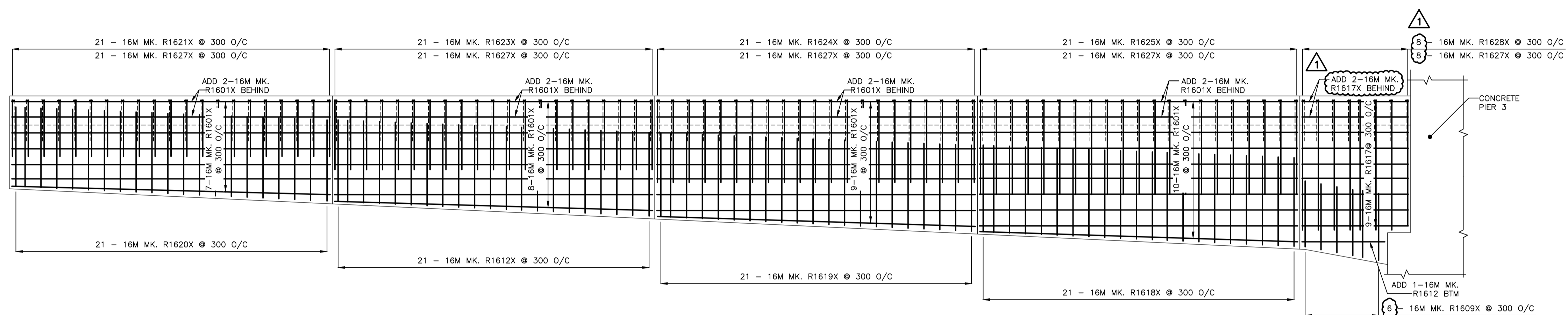


**SOUTH EAST RETAINING WALL
REFACING REINFORCING**
1:50



**NORTH EAST RETAINING WALL
REFACING REINFORCING**
1:50

STRAIGHT BARS				BENT BARS									
MARK	QTY.	LENGTH (mm)	MASS (kg)	MARK	QTY.	TYPE	A	B	C	D	E	LENGTH (mm)	MASS (kg)
R1601X	197	6000	1839.2	R1621X	147	A	1050	155				1205	275.6
R1602X	42	1400	91.5	R1622X	228	A	640	155				795	282.0
R1603X	42	1700	111.1	R1623X	84	A	1300	155				1455	190.2
R1604X	42	1770	115.7	R1624X	84	A	1540	155				1695	221.5
R1605X	42	1830	119.6	R1625X	84	A	1780	155				1935	252.9
R1606X	42	1890	123.5	R1626X	18	A	2370	155				2525	70.7
R1607X	22	2700	92.4	R1627X	207	A	790	155				945	304.4
R1608X	4	2270	14.1	R1628X	18	A	2440	155				2595	72.7
R1609X	28	1280	55.8										
R1610X	11	1900	32.5										
R1611X	2	1460	4.5										
R1612X	43	1570	105.0										
R1613X	21	1840	60.1										
R1614X	21	1880	61.4										
R1615X	21	1920	62.7										
R1616X	21	1960	64.0										
R1617X	11	1990	34.1										
R1618X	21	1670	54.6										
R1619X	21	1610	52.6										
R1620X	21	1530	50.0										
TOTAL MASS OF MMFX STEEL REINFORCING = 4814.4 kg													

NOTE:

- All dimensions given in bending diagram are out to out, except radii. radii are inside dimensions. all reinforcing steel bends and hooks shall conform to clause 6.6.2 of C.S.A. A23.1-04, unless noted otherwise in the BILL OF REINFORCING STEEL.
- All reinforcing steel shall be deformed steel, unless noted otherwise in the BILL OF REINFORCING STEEL.
- Like bars shall be bundled, securely tied and identified as to mark and site no. by appropriate means. all other items to be identified in a similar fashion.
- Unless otherwise noted, pin diameters shall be similar at all bends and hooks of a bar in accordance with the following detail:

BAR TYPES

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE _____		B.M. ELEV. _____		 500 - 311 Portage Avenue, Winnipeg MB Canada www.stantec.com		ENGINEER'S SEAL 		 THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
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.		DESIGNED BY: S.Y. CHECKED BY: K.S.A. DRAWN BY: V.F. APPROVED BY: B.J.W.		HOR. SCALE: AS NOTED VERTICAL: _____		RELEASED FOR CONSTRUCTION: _____ DATE: 2016.07.04		CONSULTANT DRAWING NO. S-134	
NO. REVISIONS: _____ DATE: _____ BY: _____		SHEET 50 OF 62 CAD FILE DRAWING NUMBER 06880s-132-884.dwg CITY DRAWING NUMBER U205-16-50		2016 REGIONAL STREET PROGRAM ARCHIBALD STREET UNDERPASS REHABILITATION EAST RETAINING WALL REINFORCING DETAILS					

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 Date: 2016 Jul 12 8:56pm User: Bjoern.Bjornson