



NORTH RETAINING WALL LAYOUT
SCALE 1:125

- NOTES:**
- ALL DIMENSIONS ARE GIVEN IN GROUND COORDINATES.
 - ALL STATIONS AND COORDINATES ARE GIVEN IN NAD 83 UTM GRID COORDINATES. CONVERSION FACTOR: GROUND = GRID/9997688.
 - DIMENSIONS AND WORK POINTS ARE GIVEN AT FRONT FACE OF WALLS U.N.O.
- PILE GENERAL NOTES:**
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT TIME OF PRESTRESSING AND 50 MPa AT 28 DAYS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - SPACING OF PILES FOR ALL FOOTINGS AS SHOWN ARE AT THE BOTTOM OF THE FOOTING.
 - PREBORE PILES MINIMUM 5 m AS SPECIFIED IN THE GEOTECHNICAL REPORT.
 - ALL PILES ARE 360 HEXAGONAL PRECAST CONCRETE.
 - PRECAST PRESTRESSED CONCRETE PILES SHALL BE DRIVEN TO REFUSAL WITH A HAMMER WITH A RATED ENERGY OF AT LEAST 40 kJ PER BLOW.
 - REFUSAL OF PRECAST PILES SHALL BE TAKEN AS 10 BLOWS PER 25 mm FOR 3 CONSECUTIVE SETS.
 - UNRAVEL AND SPLAY PILE STRANDS 600 mm LONG AFTER CUT OFF.
 - ESTIMATED PILE TIP ELEVATION = 218.000
 - ALL PILES SHOWN BATTERED ARE AT A SLOPE OF 1H:4V.

WORK POINT COORDINATES						
POINT NO.	STATION	OFFSET	GRID COORDINATES			REMARKS
			NORTHING	EASTING	ELEVN	
W.P. 1	11+970.000		5526019.423	633511.225	227.080	NORTH PORTAL AT CONTROL LINE
W.P. 2	11+970.000	5.450	5526018.890	633516.644	233.130	NORTH PORTAL AT FACE OF NE WALL
W.P. 3	11+970.000	-5.450	5526019.956	633505.805	233.413	NORTH PORTAL AT FACE OF NW WALL
W.P. 4	11+780.000		5525829.736	633518.657	226.549	SOUTH PORTAL AT CONTROL LINE
W.P. 5	11+780.000	-5.450	5525829.398	633513.219	232.900	SOUTH PORTAL AT FACE OF SW WALL
W.P. 6	11+780.000	5.450	5525830.067	633524.096	232.900	SOUTH PORTAL AT FACE OF SE WALL
W.P. 7	12+022.767	-5.450	5526072.671	633515.807	233.172	NW WALL ALIGNMENT CHANGE
W.P. 8	12+035.000	-5.700	5526084.663	633519.197	233.117	NW WALL TYPE CHANGE
W.P. 9	11+900.000		5525949.510	633511.289	225.205	CONTROL LINE
W.P. 10	11+880.000		5525929.548	633512.517	225.029	CONTROL LINE
W.P. 11	11+860.000		5525909.585	633513.745	225.013	CONTROL LINE
W.P. 12A	12+037.974	-5.840	5526087.583	633520.022	233.103	NW WALL ALIGNMENT CHANGE
W.P. 12B					234.303	
W.P. 13	12+050.836	-21.280	5526105.420	633510.046	234.303	NW WALL ALIGNMENT CHANGE
W.P. 14	12+050.418	-26.240	5526106.775	633505.252	234.303	END OF NW WALL
W.P. 15	12+000.000	5.450	5526048.005	633521.033	233.130	NE WALL ELEVATION POINT
W.P. 16	12+035.000	5.450	5526081.213	633529.795	232.360	NE WALL TYPE CHANGE
W.P. 17	12+065.000	5.450	5526108.874	633540.225	231.700	END OF NE WALL
W.P. 18	11+725.000	-6.720	5525774.422	633515.332	230.446	SW WALL TYPE CHANGE
W.P. 19	11+715.000	-7.000	5525764.424	633515.662	230.000	END OF SW WALL
W.P. 20	11+725.000	5.450	5525775.171	633527.474	230.446	SE WALL TYPE CHANGE
W.P. 21	11+715.000	5.450	5525765.191	633528.088	230.000	END OF SE WALL
W.P. 22	11+769.328	-5.450	5525818.746	633513.874	232.424	SW WALL ALIGNMENT CHANGE



LOCATION UNDERGROUND STRUCTURES	APPROVED DATE	B.M. ELEV.
SUPV. U/G STRUCTURES COMMITTEE		
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	KGW
DRAWN BY	RCB
CHECKED BY	KGW
APPROVED BY	DPK
HOR. SCALE	AS SHOWN
VERTICAL	AS SHOWN
NO. REVISIONS	DATE BY
1	ISSUED WITH ADDENDUM # 11/04/2009 RCB
0	ISSUED FOR TENDER 10/13/2009 RCB
	DATE 2009/06/24

DILLON CONSULTING

RELEASED FOR CONSTRUCTION

ENGINEER'S SEAL

PROVINCE OF MANITOBA ORIGINAL SIGNED BY: K. G. WILLIS 10.13.2009 REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NO. 088813

THE CITY OF WINNIPEG TRANSIT DEPARTMENT

SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1 TRANSITWAY TUNNEL AT CN RIVERS SUBDIVISION MILEAGE 1.38 & ASSOCIATED WORKS

CITY DRAWING NUMBER U237-09-43 SHEET 43 OF 73 CONSULTANT DRAWING NUMBER C4-S1120-T

NORTH RETAINING WALLS

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