



October 13, 2009

Public Works
Transportation Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-847-2192

Contract R-2175A-2009

Reconstruction of Appleby Line (Reg. Rd. 20) from Taywood Drive to Highway 407, including Dundas Street (Reg. Rd. 5) Approaches to Appleby Line, in the City of Burlington

ADDENDUM 2

ISSUED Tuesday, October 13, 2009

This addendum shall form a part of the plans and contract documents for the above noted project and shall be read in conjunction therewith. This addendum shall take precedence over all requirements of the original plans and contract documents issued previously. The tenderer must acknowledge receipt of this Addendum No. 2 on Page 4 of the Form of Tender.

A. FORM OF TENDER

- a) Replace 7-37 of the Form of Tender with the attached 7-37 (Revised). Item G.011 has been added - *Allowance for the Disposal of Contaminated Material (Provisional Item)*

B. SPECIAL PROVISIONS - ITEMS

- a) Replace Page 111 with the attached 111A & 111B. SP610 has been added, associated with item G.011 of the Form of Tender.
- b) Page 99 - The following clarification is provided to SP303:

The specification clearly indicates that bidders must include the specified CDS oil grit separator in their quotation. The design is based on the specified unit and any revisions would require an amendment to the MOE Certificate of Authorization. Bidders are not permitted to consider any other oil grit separator.

C. EARTH QUANTITIES

A breakdown of the earth quantities, on a station-by-station basis is attached for reference. This is provided for information only. The quantities in the Form of Tender and the Breakdown of Main Items on Sheet GG1 govern.

The Regional Municipality of Halton

Page 2

End of Addendum No. 1

Sincerely,

A handwritten signature in black ink, appearing to read "B Wicklund". The signature is fluid and cursive, with a large initial "B" and a long, sweeping tail.

Bob Wicklund, A.Sc.T.
Construction Supervisor

Region of Halton
 CONTRACT #: R-2175A-2009
 APPLEBY LINE / DUNDAS STREET WIDENING

7-37
 REVISED

Ad No.	Item	Description	Unit	Quantity	Unit Bid Price	Total Bid Price
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PART G - MISCELLANEOUS

MISCELLANEOUS

G.001		SUPPLY, PLACE AND COMPACT 20 MM CLEAR STONE SP601	T	200.00		
G.002		MISCELLANEOUS CONCRETE SP602	M3	100.00		
G.003		UNSHRINKABLE FILL SP603	M3	200.00		
G.004		SEWER GRADE CHANGES SP604	M3	50.00		
G.005		CONTINGENCIES SP605	LS	1.00	750,000.00	750,000.00
G.006		EXCAVATION OF SOFT SPOTS AND BACKFILL WITH NATIVE MATERIAL 206 SP606	M3	100.00		
G.007		PREMIUM TO BACKFILL SOFT SPOTS WITH GRANULAR B TYPE II MATERIAL 314 SP606	M3	100.00		
G.008		MOBILIZATION AND DEMOBILIZATION SP607	LS	1.00		
G.009		SUPPLY, INSTALL AND MAINTAIN AND REMOVE TEMPORARY ADVANCE NOTIFICATION SIGNS TC-64 SP608	EA	4.00		
G.010		STREET CLEANING SP609	HR	600.00		
1	G.009-B G.011	ALLOWANCE FOR THE DISPOSAL OF CONTAMINATED MATERIAL (PROVISIONAL ITEM) SP610	T	1,000.00		

MISCELLANEOUS Total

PART G - MISCELLANEOUS Total

Payment at the contract price shall be full compensation for all labour, equipment and materials to do the work.

SP609 STREET CLEANING

The Contractor shall, for the unit price bid, provide all labour and equipment required to clean mud and dust from roads affected by this contract. The roads will be cleaned on Friday afternoon or more often as directed by the Contract Administrator, using a vacuum street sweeper with mechanical type pickup, followed by a 4 nozzle street flusher to remove the dirt residue. The unit price bid shall also include the disposal of all material collected during the sweeping operation. The water required for cleaning roads shall be provided by the Contractor.

This item shall not, in any way, remove the Contractor's responsibility for 'Mud Control' and 'Dust Control' as stated in the Special Provisions - General section of these documents, but shall be considered as an added measure over and above these responsibilities.

Payment at the contract price shall be full compensation for all labour, equipment and materials to do the work.

**SP610 ALLOWANCE FOR THE DISPOSAL OF CONTAMINATED MATERIAL
(PROVISIONAL ITEM)**

The Contractor is responsible for the disposal of all excavated and/or surplus materials and shall dispose of it in accordance with Environmental Protection Act and Regulations.

Samples obtained during the geotechnical investigation may have determined additional restrictions on the disposal of some materials, requiring that only certain disposal sites will be permitted to accept the material. The borehole information and results of environmental testing are attached to the contract documents.

The cost of the disposal of excavated material and/or surplus materials, and further environmental testing costs related thereto, shall be included in the related unit prices bid for the related tender item.

This provisional allowance is for the additional cost to dispose the contaminated material only if the Contractor's environmental testing determines that the material must be disposed of at a more restrictive receiving site than that indicated in the geotechnical report. The results of this additional testing shall be provided to the Region for review.

This provisional allowance shall include the additional costs to separately stockpile this material, additional loading and disposal of the material by carriers licenced by the MOE for disposal of the contaminated material, and dumping surcharge fees of the licenced MOE landfill site.

Recent information indicates that soil contamination may be present on lands recently acquired by the Region on the east side of Appleby Line from Sta. 8+280 to 8+440. In addition, it is possible that contamination may be encountered elsewhere that has not been identified in previous geotechnical investigations.

The Contractor shall provide adequate support to the walls of the excavation to limit the amount of contaminated material being handled. The Contractor will not be entitled to any compensation for unnecessary additional excavation, disposal of collapsed material, or additional backfill for over breaks or collapse of the soil.

Payment at the contract price shall be full compensation for all labour, equipment and materials to undertake the work, based on tickets identifying the material quantity in 'tonnes'.

APPLEBY

13 / July / 2009

BERM			
STA	AREA (m2)	LENGTH (m)	VOLUME (m3)
8034	0	6.000	30.138
8040.000	10.046	20.000	182.35
8060.000	8.189	10.000	80.28
8070.000	7.867	4.900	37.0097
8074.900	7.239	5.100	35.7
8080.000	6.761	20.000	97.05
8100.000	2.944	20.000	41.59
8120.000	1.215	14.900	9.7297
8134.900	0.091	5.100	1.6575
8140.000	0.559	8.500	2.37575
8148.500	0		
8173.500	0	6.500	19.39275
8180.000	5.967	20.000	77.85
8200.000	1.818	20.000	23.81
8220.000	0.563	10.000	2.815
8230.000	0		
8340.000	0	7.500	5.235
8347.500	1.396	12.500	20.9875
8360.000	1.962	20.000	40.54
8380.000	2.092	10.000	10.46
8390.000	0		
TOTAL			718.9709

071485 APPLEBY/DUNDAS															
LDDI TOTAL		MANUAL BERM			MANUAL STRIPPING			MANUAL ENTRANCES			MANUAL NORTH HARRISON COURT				
CUT	FILL	FILL	CUT	FILL	CUT	FILL	CUT	FILL	FILL STRIPPIN G	FILL G	AVAIL CUT	FILL REQ.	W/BULKING	EARTH EXC.	BORROW
21466	12231	719	3380	5292	79	72	49	220	83	18165	18666	21466	26969		
15804	25142		1055	5339	336		30			15085	30511	35088	21509		
TOTAL	37270	719	4435	10631	415	72	79	220	83	33250	49177	56554	48478		23304
										33250	49177		48478		23304

Revised

Project: 071485
Alignment: AppTebyLine

Station	Cut		Fill		END AREA VOLUME LISTING WITH CURVE CORRECTION		Fill 1.0000		Cut 1.0000	
	Area (m2)	Volume (m3)	Area (m2)	Volume (m3)	Volume (m3)	Volume (m3)	Tot Vol (m3)	Tot Vol (m3)	Tot Vol (m3)	Mass Ordinate
7+240	0.000	0.000	0.000	47.007	0.000	47.007	0.000	47.007	0.000	47.007
7+250	9.315	0.000	0.000	82.419	0.001	129.426	0.001	129.425	0.001	129.425
7+260	7.049	0.000	0.000	139.225	0.003	268.651	0.004	268.647	0.004	268.647
7+280	6.820	0.000	0.000	134.957	0.000	403.608	0.004	403.604	0.004	403.604
7+300	6.684	0.000	0.000	158.237	0.000	561.845	0.004	561.841	0.004	561.841
7+320	9.140	0.000	0.000	185.198	0.000	747.043	0.004	747.039	0.004	747.039
7+340	9.380	0.000	0.000	177.109	1.530	924.152	1.534	922.617	1.534	922.617
7+360	8.331	0.153	0.153	42.373	0.615	966.525	2.149	964.376	2.149	964.376
7+365	8.618	0.093	0.093	135.266	0.696	1101.791	2.845	1098.946	2.845	1098.946
7+380	9.417	0.000	0.000	204.491	0.000	1306.282	2.845	1303.437	2.845	1303.437
7+400	11.032	0.000	0.000	232.660	0.000	1538.941	2.845	1536.096	2.845	1536.096
7+420	12.234	0.000	0.000	254.544	0.000	1793.486	2.845	1790.641	2.845	1790.641
7+440	13.220	0.000	0.000	254.433	0.000	2047.919	2.845	2045.074	2.845	2045.074
7+460	12.223	0.000	0.000	36.766	0.000	2084.685	2.845	2081.840	2.845	2081.840
7+463	12.288	0.000	0.000	138.686	7.996	2223.371	10.841	2212.531	10.841	2212.531
7+480	4.028	0.941	0.941	100.523	16.271	2323.895	27.112	2296.783	27.112	2296.783
7+500	6.024	0.685	0.685	46.680	7.037	2370.574	34.148	2336.426	34.148	2336.426
7+507	7.313	1.324	1.324	95.100	14.940	2465.675	49.089	2416.586	49.089	2416.586
7+520	7.318	0.974	0.974	147.569	19.509	2613.244	68.598	2544.646	68.598	2544.646
7+540	7.439	0.976	0.976	147.185	22.716	2760.429	91.314	2669.115	91.314	2669.115
7+560	7.280	1.295	1.295	62.121	11.148	2822.550	102.461	2720.088	102.461	2720.088
7+568.500	7.337	1.328	1.328	85.637	13.056	2908.186	115.517	2792.669	115.517	2792.669
7+580	7.556	0.943	0.943	147.551	16.832	3055.737	132.349	2923.389	132.349	2923.389
7+600	7.199	0.740	0.740							

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 21.363 2.316 3077.301
 120.623 16.676 3197.924
 80.106 10.644 3278.030
 58.510 8.834 3336.540

134.665 2942.636
 151.341 3046.583
 161.984 3116.046
 170.819 3165.722

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Project: 071485
 Alignment: ApplebyLine
 Mon July 13 10:59:31 2009

Station	Cut		Fill		END AREA VOLUME LISTING WITH CURVE CORRECTION		Cut 1.0000		Fill 1.0000	
	Area (m2)	Volume (m3)	Area (m2)	Volume (m3)	Volume (m3)	Tot Vol (m3)	Volume (m3)	Tot Vol (m3)	Volume (m3)	Tot Vol (m3)
7+650.800	7.634	0.702	78.213	11.276	3414.754	182.094	3232.660	182.094	3232.660	3300.991
7+660	8.653	0.730	74.918	6.587	3489.672	188.681	3300.991	188.681	3300.991	3325.083
7+663	8.887	0.749	26.310	2.218	3515.982	190.899	3325.083	190.899	3325.083	3503.920
7+680	13.858	0.957	193.336	14.499	3709.319	205.399	3503.920	205.399	3503.920	3771.325
7+700	15.103	1.263	289.606	22.201	3998.925	227.599	3771.325	227.599	3771.325	3866.676
7+707	15.176	1.773	105.975	10.625	4104.900	238.224	3866.676	238.224	3866.676	4047.484
7+720	16.122	1.709	203.436	22.627	4308.336	260.851	4047.484	260.851	4047.484	4338.578
7+740	15.413	0.717	315.347	24.253	4623.683	285.105	4338.578	285.105	4338.578	4416.180
7+745.400	15.118	1.073	82.435	4.833	4706.118	289.937	4416.180	289.937	4416.180	4614.968
7+760	13.520	0.334	209.062	10.274	4915.179	300.212	4614.968	300.212	4614.968	4920.715
7+780	17.428	0.039	309.484	3.736	5224.663	303.948	4920.715	303.948	4920.715	5202.476
7+795.500	19.339	0.372	284.949	3.188	5509.612	307.136	5202.476	307.136	5202.476	5289.110
7+800	19.904	0.367	88.298	1.663	5597.910	308.799	5289.110	308.799	5289.110	5583.516
7+814.500	21.568	0.497	300.670	6.264	5898.579	315.063	5583.516	315.063	5583.516	5705.704
7+820	23.668	0.306	124.397	2.208	6022.976	317.271	5705.704	317.271	5705.704	6228.075
7+840	29.122	0.246	527.894	5.524	6550.870	322.795	6228.075	322.795	6228.075	6474.858
7+848.500	29.630	0.439	249.695	2.911	6800.565	325.707	6474.858	325.707	6474.858	6813.167
7+860	30.451	0.806	345.466	7.158	7146.031	332.864	6813.167	332.864	6813.167	7260.229
7+874.500	33.100	1.081	460.744	13.682	7606.775	346.547	7260.229	346.547	7260.229	7434.245
			180.535	6.520	7787.311	353.066	7434.245	353.066	7434.245	

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Appleby-jul1309.eth Monday, July 13, 2009

7+880	32.549	1.290	461.104	16.857	8248.415	369.923	7878.492
7+895	28.931	0.958	143.590	3.760	8392.005	373.682	8018.322
7+900	28.505	0.546	508.022	10.406	8900.027	384.089	8515.938
7+920	22.297	0.495	420.335	10.199	9320.361	394.287	8926.074
7+940	19.736	0.525	109.403	7.876	9429.765	402.164	9027.601
7+946.200	15.555	2.016	198.231	65.788	9627.995	467.952	9160.043
7+960	13.174	7.519	110.594	151.104	9738.589	619.056	9119.333
7+968	14.475	30.257	111.149	150.331	9849.738	769.387	9080.351

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Project: 071485
Alignment: ApplebyLine

Mon July 13 10:59:31 2009

Station	Cut		Fill		END AREA VOLUME LISTING WITH CURVE CORRECTION		Mass Ordinate
	Area (m2)	Volume (m3)	Area (m2)	Volume (m3)	Cut 1.0000 Volume (m3)	Fill 1.0000 Volume (m3)	
7+974.800	18.216	13.958	100.283	48.912	9950.021	818.299	9131.722
7+980	20.354	4.854	551.705	50.858	10501.725	869.157	9632.568
8+000	34.816	0.232	641.723	17.769	11143.449	886.927	10256.522
8+020	29.356	1.545	108.680	28.404	11252.129	915.331	10336.798
8+025.300	11.656	9.173	167.495	112.466	11419.624	1027.796	10391.828
8+040	11.133	6.128	226.818	106.324	11546.442	1134.120	10512.322
8+060	11.549	4.504	117.164	54.984	11763.606	1189.103	10574.503
8+070	11.884	6.493	57.568	32.433	11821.174	1221.537	10599.638
8+074.900	11.613	6.745	59.771	33.788	11880.946	1255.325	10625.621
8+080	11.827	6.505	262.725	163.039	12143.670	1418.364	10725.307
8+100	14.446	9.799	296.786	245.568	12440.456	1663.932	10776.524
8+120	15.233	14.758	232.359	237.602	12672.815	1961.534	10771.281
8+134.900	15.956	17.135	79.173	87.817	12751.988	1989.351	10762.637
8+140	15.092	17.303	150.199	104.313	12902.187	2093.664	10808.523
8+148.500	20.249	7.241	293.025	51.277	13195.212	2144.941	11050.271
8+160	30.712	1.677					

Page 3

Station	Area (m2)	Cut Area (m2)	Fill Area (m2)	Area (m2)	Fill 1.0000 Volume (m3)	Cut 1.0000 Volume (m3)	Fill 1.0000 Tot Vol (m3)	Cut 1.0000 Tot Vol (m3)	Mass Ordinate
8+173.500	25.831		2.324		381.664	130.235	60.882	13707.111	2171.944
8+180	14.241		16.409		27.003	247.329	310.976	13954.441	2232.826
8+200	10.492		14.688			216.773	285.201	14171.214	2543.801
8+220	11.186		13.832			161.091	261.291	14332.305	2829.002
8+236	8.951		18.830			46.525	68.553	14378.831	3080.293
8+240	14.312		15.447			83.477	84.707	14462.308	3158.846
8+245.500	16.044		15.356			269.569	222.529	14731.877	3243.554
8+260	21.138		15.338			428.874	314.274	15160.751	3466.083
8+280	21.749		16.090			208.191	179.369	15368.942	3780.357
8+290.600	17.532		17.754			118.926	163.953	15487.868	3959.726
8+300	7.771		17.130			235.919	205.594	15723.787	4123.679
8+320	15.821		3.429						4329.273

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Project: 071485
Alignment: Applebyline

Mon July 13 10:59:31 2009

END AREA VOLUME LISTING WITH CURVE CORRECTION

Station	Cut Area (m2)	Fill Area (m2)	Fill 1.0000 Volume (m3)	Cut 1.0000 Volume (m3)	Fill 1.0000 Tot Vol (m3)	Cut 1.0000 Tot Vol (m3)	Mass Ordinate
8+340	16.139	3.543	319.603	69.726	16043.390	4898.998	11644.391
8+347.500	7.074	17.872	87.049	80.306	16130.439	4479.305	11651.134
8+360	7.005	16.225	87.991	213.107	16218.430	4692.411	11526.018
8+380	6.553	15.814	135.576	320.398	16354.006	5912.810	11341.196
8+400	6.885	16.594	134.380	324.085	16488.385	5836.894	11151.491
8+420	8.551	12.911	154.358	295.051	16642.743	5631.945	11010.798
8+432.500	9.916	11.123	115.419	150.210	16758.162	5782.155	10976.907
8+440	10.737	10.300	77.449	80.335	16835.611	5862.490	10973.122
8+460	11.419	10.982	221.558	212.823	17057.169	6075.313	10981.856
8+480	11.062	13.796	224.812	247.785	17281.981	6323.098	10958.884
8+500	11.069	16.025	221.315	298.212	17503.297	6621.310	10881.987
			198.343	356.873	17701.639	6978.183	10723.456

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Station	Cut Area (m2)	Fill Area (m2)	Cut Volume (m3)	Fill Volume (m3)	END AREA VOLUME LISTING WITH CURVE CORRECTION	Station
8+520	8.765	19.662	166.384	447.409	17868.023	7425.592
8+540	7.874	25.078	142.425	532.815	18010.448	7958.407
8+560	6.369	28.203	32.789	91.184	18043.236	8049.591
8+564.200	9.245	15.218	187.533	192.115	18230.770	8241.706
8+580	14.494	9.101	290.936	151.741	18521.706	8393.447
8+600	14.600	6.074	160.541	70.921	18682.247	8464.368
8+612.500	11.087	5.274	63.083	40.736	18745.330	8505.104
8+620	5.736	5.589	101.173	128.870	18846.503	8633.974
8+640	4.382	7.298	13.435	22.136	18859.938	8656.111
8+643	4.575	7.460	101.483	147.467	18961.421	8803.578
8+660	7.364	9.889	105.929	93.155	19067.350	8896.733
8+673	8.933	4.442	58.973	34.650	19126.323	8931.383
8+680	7.917	5.458	174.453	74.817	19300.776	9006.200
8+700	9.529	2.024	30.025	5.744	19330.801	9011.944
8+703	10.488	1.805	154.947	69.046	19485.748	9080.990
8+720	7.741	6.318	79.749	141.986	19565.496	9222.976

Project: 071485
Alignment: ApplebyLine

Mon July 13 10:59:31 2009

Station	Cut Area (m2)	Fill Area (m2)	Cut Volume (m3)	Fill Volume (m3)	END AREA VOLUME LISTING WITH CURVE CORRECTION	Station
8+733	4.528	15.526	31.066	109.618	19596.563	9332.594
8+740	4.348	15.793	74.776	303.220	19671.338	9635.814
8+760	3.129	14.529	65.475	231.396	19736.813	9869.603
8+780	3.418	8.611	88.608	209.414	19825.421	10076.624
8+800	5.443	12.330	167.495	190.323	19992.916	10266.947
8+820	11.307	6.702	223.321	126.616	20216.237	10893.564
8+840	11.091	5.986	71.809	97.402	20288.045	10909.966
8+850	3.291	13.516				

Project: 071485
 Alignment: Dundas Street

Thu September 10 17:50:13 2009

Station	Cut		Fill		END AREA VOLUME LISTING WITH CURVE CORRECTION				Mass Ordinate
	Area (m2)	Volume (m3)	Area (m2)	Volume (m3)	Cut 1.0000 Volume (m3)	Fill 1.0000 Volume (m3)	Cut 1.0000 Tot Vol (m3)	Fill 1.0000 Tot Vol (m3)	
19+460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19+480	0.000	0.000	56.521	0.008	56.521	56.521	0.008	56.514	0.008
19+500	5.652	0.001	83.760	1.864	140.281	140.281	1.872	138.409	1.872
19+520	2.724	0.186	24.031	2.293	164.312	164.312	4.164	160.147	4.164
19+528	3.284	0.387	29.395	131.180	193.707	193.707	135.344	58.363	135.344
19+540	1.615	21.476	21.568	220.327	215.275	215.275	355.671	-140.396	355.671
19+550	2.698	22.590	28.085	235.445	243.360	243.360	591.116	-347.756	591.116
19+560	2.919	24.499	59.769	528.986	303.129	303.129	1120.102	-816.973	1120.102
19+580	3.058	28.399	70.935	674.381	374.064	374.064	1794.483	-1420.420	1794.483
19+600	4.035	39.039	90.875	772.591	464.938	464.938	2567.074	-2102.136	2567.074
19+620	5.052	38.220	104.566	644.360	569.504	569.504	3211.434	-2641.929	3211.434
19+639	5.955	29.607	5.996	29.254	575.500	575.500	3240.688	-2665.188	3240.688
19+640	6.037	28.902	300.392	433.272	875.893	875.893	3673.960	-2798.067	3673.960
19+658	27.340	19.240	55.072	37.818	930.964	930.964	3711.778	-2780.814	3711.778
19+660	27.732	18.578	579.351	316.509	1510.316	1510.316	4028.287	-2517.971	4028.287
19+680	30.204	13.072	594.438	240.364	2104.753	2104.753	4268.651	-2163.897	4268.651
19+700	29.240	10.964	310.797	103.036	2415.550	2415.550	4371.687	-1956.137	4371.687
19+710	32.919	9.643	148.875	42.468	2564.426	2564.426	4414.154	-1849.729	4414.154
19+714.500	33.248	9.231	185.630	51.291	2750.055	2750.055	4465.445	-1715.390	4465.445
19+720	34.254	9.420	475.501	133.434	3225.556	3225.556	4598.879	-1373.323	4598.879
19+734	33.675	9.642	201.827	60.363	3427.384	3427.384	4659.242	-1231.858	4659.242
19+740	33.601	10.479	589.593	155.186	4016.976	4016.976	4814.428	-797.452	4814.428
19+757	35.742	7.826	109.023	20.894	4125.999	4125.999	4835.322	-709.323	4835.322
19+760	36.931	6.200	377.651	78.101	4503.651	4503.651	4913.422	-409.772	4913.422
19+770	38.589	9.538	174.016	44.092	4677.667	4677.667	4957.515	-279.848	4957.515
19+774.500	38.737	10.165							

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 218.232 62.801 4895.899
 113.976 33.692 5009.875
 5020.315 -124.417
 5054.007 -44.133
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Station	Cut Area (m2)	Fill Area (m2)	END AREA VOLUME LISTING WITH CURVE CORRECTION		Cut 1.0000 Volume (m3)	Fill 1.0000 Volume (m3)	Tot Vol (m3)	Mass Ordinate
			Cut 1.0000 Volume (m3)	Fill 1.0000 Volume (m3)				
19+789	46.506	5.249	270.563	51.754	5280.438	174.877	5105.761	
19+800	49.842	19.069	529.758	135.102	5810.196	569.333	5240.863	
19+817.500	45.782	9.848	837.325	255.737	6647.521	1150.922	5496.600	
19+820	49.475	1.147	119.303	13.847	6766.824	1256.377	5510.447	
19+840	49.310	2.143	990.157	32.994	7756.981	2213.540	5543.441	
19+860	42.995	12.029	924.214	142.525	8681.196	2995.230	5685.966	
19+876.300	45.448	8.805	722.251	171.528	9403.447	3545.954	5857.493	
19+880	43.827	9.427	165.752	34.048	9369.200	3677.658	5891.542	
19+900	34.382	12.304	782.085	217.310	10351.285	4242.433	6108.852	
19+920	21.732	15.025	561.134	273.292	10912.419	4530.275	6382.144	
19+930.100	22.953	4.562	225.657	98.915	11138.076	4657.017	6481.058	
19+940	22.157	5.067	223.296	47.667	11361.371	4832.646	6528.725	
19+947	20.869	6.995	150.591	42.218	11511.962	4941.020	6570.943	
19+951.649	18.590	16.178	91.723	53.866	11603.685	4978.876	6624.808	
19+960	10.472	7.946	121.349	100.730	11725.034	4999.496	6725.538	
19+961.400	9.926	7.856	14.279	11.061	11739.313	5002.713	6736.600	
19+963.100	9.240	7.961	16.291	13.445	11755.604	5005.559	6750.044	
19+971.800	10.478	14.091	85.771	95.927	11841.375	4995.403	6845.971	
19+980	14.514	1.344	102.465	63.281	11943.839	5034.587	6909.252	
20+000	8.893	3.071	234.074	44.147	12177.913	5224.514	6953.399	
20+020	12.596	5.001	214.898	80.716	12392.811	5358.696	7034.115	
20+031.700	9.007	20.595	126.381	149.732	12519.192	5335.345	7183.847	
20+034	9.659	25.699	21.467	53.238	12540.658	5303.574	7237.085	
			28.739	89.622	12569.397	5242.690	7326.707	

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20+037	9.500	34.049	28.696	100.360	12598.093	7427.067	5171.026
20+040	9.631	32.858	211.381	592.088	12809.474	8019.155	4790.319
20+060	11.507	26.351	224.936	564.638	13034.410	8583.793	4450.617
20+080	10.986	30.113	182.691	533.215	13217.100	9117.009	4106.092

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Alignment: Dundas Street

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Station	Cut		Fill		END AREA VOLUME LISTING WITH CURVE CORRECTION		1.0000 Mass Ordinate
	Area (m2)	Volume (m3)	Area (m2)	Volume (m3)	Cut 1.0000 Volume (m3)	Fill 1.0000 Volume (m3)	
20+097	10.507	32.619	31.093	97.659	13248.194	9214.668	4033.526
20+100	10.222	32.488	215.417	621.796	13463.611	9836.463	3627.148
20+120	11.320	29.692	121.958	214.207	13585.569	10050.670	3534.899
20+130.400	12.134	11.502	114.369	123.662	13699.938	10174.332	3525.606
20+140	11.693	14.261	182.688	334.283	13882.625	10508.615	3374.010
20+156	11.143	27.524	41.981	119.780	13924.607	10628.396	3296.211
20+160	9.848	32.366	204.787	718.196	14129.394	11346.592	2782.802
20+180	10.631	39.454	65.480	259.506	14194.874	11606.098	2588.776
20+186.300	10.156	42.929	145.589	640.185	14340.463	12246.283	2094.180
20+200	11.097	50.529	43.742	207.348	14384.204	12453.630	1930.574
20+204	10.774	53.145	168.734	880.360	14552.939	13333.990	1218.949
20+220	10.318	56.900	80.292	471.674	14633.231	13805.664	827.567
20+228	9.755	61.019	115.731	752.315	14748.962	14557.979	190.984
20+240	9.534	64.367	182.490	1333.649	14931.452	15891.628	-960.176
20+260	8.715	68.998	166.415	1409.132	15097.868	17300.760	-2202.892
20+280	7.926	71.915	64.236	576.311	15162.103	17877.070	-2714.967
20+288	8.133	72.162	92.223	886.803	15254.326	18763.873	-3509.547
20+300	7.238	75.638	146.046	1646.585	15400.372	20410.458	-5010.086
20+320	7.367	89.020	95.577	1275.598	15495.949	21686.056	-6190.106
20+334	6.287	93.208	36.604	556.366	15532.553	22242.422	-6709.868
20+340	5.914	92.247	103.012	1848.724	15635.565	24091.146	-8455.580
20+360	4.387	92.625					

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Station	4. i10	6.260	84.288	87.386	87.386	15719.853	25078.532	-9358.679
20+380	0.000	0.000	40.933	62.749	15760.785	15760.785	25141.280	-9380.495
20+400	0.000	0.000	0.000	0.000	15760.785	15760.785	25141.280	-9380.495
20+420	0.000	0.000	0.000	0.000	15760.785	15760.785	25141.280	-9380.495
20+440	0.000	0.000	0.000	0.000	15760.785	15760.785	25141.280	-9380.495
20+460	0.000	0.000	0.000	0.000	15760.785	15760.785	25141.280	-9380.495
20+480	0.000	0.000	0.000	0.000	15760.785	15760.785	25141.280	-9380.495

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Alignment: Dundas Street

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Station	Cut Area (m2)	Fill Area (m2)	Cut Volume (m3)	Fill Volume (m3)	Tot Vol (m3)	Cut 1.000	Fill 1.000	Mass Ordinate
20+500	0.000	0.000	0.000	15760.785	15760.785	0.000	15760.785	-9380.495
20+520	0.000	0.000	0.000	15760.785	15760.785	0.000	15760.785	-9380.495