

REMOVAL OF EXISTING STRUCTURES	
Sta. 0+711, LL	Storm Sewer Manhole
Sta. 0+717, LL & RL	Storm Sewer Inlets
Sta. 0+754, LL	Storm Sewer Manhole
Sta. 0+711, LL to 1+078, LL	Storm Sewer Pipe (367 m)
Sta. 0+855, LL	Storm Sewer Manhole
Sta. 0+850, RL	Storm Sewer Inlet
Sta. 0+863, RL	Storm Sewer Inlet
Sta. 1+000	Traffic Signal System
MAPLE:	
Sta. 4+887, LL	Tree
Sta. 4+888, LL	Storm Sewer Inlet
Sta. 4+906, RL	Storm Sewer Inlet
Sta. 5+035, RL	Storm Sewer Inlet
Sta. 5+041, LL	Storm Sewer Inlet
Sta. 5+107, LL	Storm Sewer Inlet
Sta. 5+116, RL	Storm Sewer Inlet

EARTHWORK SUMMARY					COMPACTION		
LOCATION	EXCAVATION						
	COMMON	VF	ROCK	VF			
	CU.M.		CU.M.				
Maple	1,408	0.8	807	1.0			
Seneca 1	640	0.8	405	1.0			
Seneca 2	765	0.8	919	1.0			
TOTAL	2,813 **		2,131 **				
Seneca 1 is non-participating (Sta. 0+726.072 to Sta. 0+856.617)							
** To be wasted							

CRUSHED STONE SUBGRADE & GEOGRID REINFORCEMENT (FOR BASE)		
LOCATION	CRUSHED STONE SUBGRADE S.M.	GEOGRID REINFORCEMENT (FOR BASE) S.M.
Sta. 0+704.821 to Sta. 0+856.617 *	2,855.0	2,855.0
Sta. 0+856.617 to Sta. 1+078.000	4,118.3	4,118.3
Sta. 4+849.984 to Sta. 5+146.780 (Maple)	4,813.5	4,813.5
TOTAL	11,786.8	11,786.8

PAVING BRICK	
LOCATION	S.M.
Intersection of Seneca & Maple	612.9
TOTAL	612.9*

* Non-Participating

ADJUSTMENT OF MANHOLES	
STATION	SIDE
0+710.925 *	LL
4+947.4	LL
TOTAL	2

* Non-Participating

MONUMENT BOX (INSTALL ONLY)	
LOCATION	QUANTITY
Intersection of Seneca & Maple	1
TOTAL	1

RECAPITULATION OF ROAD QUANTITIES				
ITEM	UNIT	PARTICIPATING	NON-PARTICIPATING	TOTAL QUANTITY
CLEARING AND GRUBBING	L.S.	80%	20%	L.S.
REMOVAL OF EXISTING STRUCTURES	L.S.	80%	20%	L.S.
COMMON EXCAVATION	Cu.M.	2,173	640	2,813
ROCK EXCAVATION	Cu.M.	1,726	405	2,131
CRUSHED STONE SUBGRADE (150MM)	Sq.M.	8,930	2,855	11,785
GEOGRID REINFORCEMENT (FOR BASE)	Sq.M.	8,930	2,855	11,785
1500 mm RCP (Storm Sewer)	L.M.		279.7	279.7
900 mm RCP (Storm Sewer)	L.M.		88.8	88.8
600 mm RCP (Storm Sewer)	L.M.	92.0		92.0
450 mm RCP (Storm Sewer)	L.M.	35.2		35.2
375 mm RCP (Storm Sewer)	L.M.	46.2		46.2
R.C. Manhole	Each		5	5
Type 'I' Inlet	Each	10		10
WATER (GRADING) (SET)	M g	1		1
ADJUSTMENT OF MANHOLES	EA	1	1	2
CURB & GUTTER, COMBINED (AE)	M.	1,209.3	450.9	1,660.2
CURB, EDGE (150MM) (AE)	M.	136.3	42.5	178.8
CURB, PROTECTION (SPECIAL) (AE)	M.	15.0		15.0
SIDEWALK CONST. (100MM) (AE)	S.M.	1,304.5	352.5	1,657
CONC. PAVEMENT (200MM-UNIF.) (AE) (PL)	S.M.	407.1	82.4	490
CONC. PAVEMENT (160MM-UNIF.) (AE) (PL)	S.M.	899.3	87.6	987
CONC. PAVEMENT (200MM-UNIF.) (AE) (NRDJ)	S.M.	2,666.3	2,044.2	4,711
CONC. PAVEMENT (260MM-UNIF.) (AE) (NRDJ)	S.M.	1,051.8	765.6	1,817
CONC. PAVEMENT (160MM-UNIF.) (AE)	S.M.	613		613
MONUMENT BOX (INSTALLATION ONLY)	EA	1		1
PAVING BRICK	SM		613	613
MOBILIZATION	L.S.	1	0	L.S.
TEMPORARY SURFACING MATERIAL (SET)	C.M.	1	0	1
FIELD OFFICE & LAB, TYPE A	Each	1	0	1
MOBILIZATION (DBE)	L.S.	100%		L.S.
FOUNDATION STABILIZATION (SET)	CU. M.	1	0	1
CONCRETE FOR SEAL COURSE (SET)	CU. M.	1	0	1
CONCRETE CORES (SET)	Each	1	0	1
RESTORATION AND MAINTENANCE OF HAUL ROADS	L.S.	100%	0	L.S.
TRAINEE (HIGHWAY CONSTRUCTION) (2) (SET)	HOURS	1	0	L.S.
ELECTRIC CONDUIT, 50 MM, NON-METALLIC	L.M.		630.6	630.6
SCREW-IN FOUNDATION ANCHOR	Each		8	8
FOR CONSTRUCTION TRAFFIC CONTROL QUANTITIES, SEE SHEET 56				
FOR BITUMINOUS SURFACING QUANTITIES, SEE SHEET 15				
FOR SEEDING QUANTITIES, SEE SHEET 21				
FOR PAVEMENT MARKING QUANTITIES, SEE SHEET 48				
FOR TRAFFIC SIGNAL QUANTITIES, SEE SHEET 34				
FOR WATER POLLUTION CONTROL SOIL EROSION, SEE SHEET 16				
FOR STORM SEWER QUANTITIES, SEE SHEET 32				

CONC. PAVEMENT (200 mm UNIF.) (AE) (PLAIN)						
STATION	SIDE	TYPE	WIDTH (W) M.	LENGTH (P) M.	160MM	200MM
SENECA:						
Sta. 0+751.635	LL		4.0	3.554	25.51*	
Sta. 0+762.400	RL		7.4	2.792	27.77*	
Sta. 0+777.933	LL		12.2	3.554		54.66*
Sta. 0+803.600	RL		3.6	2.792	17.16*	
Sta. 0+823.400	LL		7.4	2.792		27.77*
Sta. 0+827.000	RL		3.6	2.792	17.16*	
Sta. 0+877.288	RL		8.5	2.792		30.84
Sta. 0+938.900	RL		8.2	2.792		30.00
Sta. 0+955.733	RL		9.0	2.792		32.23
Sta. 0+973.574	LL		8.0	2.792		29.44
Sta. 1+038.017	LL		9.2	2.792		32.79
Sta. 1+049.430	RL		4.8	3.321		23.73
Sta. 1+058.570	LL		4.6	3.743		26.74
Sta. 1+067.417	RL		6.2	4.153		36.32
Sta. 1+075.50	LL		3.7	4.526		27.82
MAPLE:						
Sta. 4+856.000	RL		7.6	4.912		58.10
Sta. 4+859.722	LL		7.2	4.761		52.09
Sta. 4+897.492	RL		5.3	3.117		25.41
Sta. 4+931.840	LL		6.0	2.792		23.86
Sta. 4+947.490	LL		4.6	2.792		19.95
Sta. 4+956.607	LL		9.2	2.792		32.79
Sta. 5+054.082	RL		4.4	2.792		19.39
Sta. 5+061.916	RL		4.4	2.792		19.39
Sta. 5+065.226	LL		8.5	2.792		30.84
Sta. 5+087.682	RL		8.0	3.344		38.89
Sta. 5+080.258	LL		5.6	3.459		30.14
Sta. 5+103.585	RL		5.8	4.042		37.42
Sta. 5+139.030	LL		3.0	5.593		39.29
Conc. Base under Paving Brick at Intersection of Seneca & Maple					612.9	
TOTAL					988.86	489.54

CONC. PAVEMENT 160 MM (UNIF.) (AE)	
LOCATION	S.M.
Intersection of Seneca & Maple (Under Paving Brick)	612.9
TOTAL	612.9*

LOCATION	CONC. PAVEMENT (260MM-UNIF.) (AE) (NRDJ)		CONC. PAVEMENT (200MM-UNIF.) (AE) (NRDJ)
	S.M.		
Intersection of Seneca & University	695.1		
Intersection of Seneca & Mentor	141.0		
Intersection of Seneca & Maple	768.6		
Intersection of Maple & Dodge	140.1		
Intersection of Maple & Walnut	74.6		
SENECA STREET			
Sta. 0+726.072 to Sta. 0+856.617		2,044.2 *	
Sta. 0+856.617 to Sta. 1+078.000		2,668.3	
MAPLE			
Sta. 4+849.984 to Sta. 5+146.780			4,711.5
TOTAL	1,817.4		4,710.5

* Non-Participating
1/2 Non-Participating

CURB AND GUTTER, COMBINED (AE)				
FROM STA.	TO STA.	COMBINED C&G (AE) TYPE I	COMBINED C&G (AE) TYPE II	COMBINED C&G (AE) TYPE III
SENECA				
Left Side				
0+726.072	0+746.885	20.81 *		
0+746.885	0+756.385		9.50 *	
0+756.385	0+769.083	12.70 *		
0+769.083	0+786.783		17.70 *	
0+786.783	0+816.950	30.17 *		
0+816.950	0+829.850		12.90 *	
0+829.850	0+856.617	26.77 *		
0+856.617	0+968.824	110.21		
0+968.824	0+978.602		11.78	
1+020.650	1+030.687	10.02		
1+030.687	1+045.367		14.70	
1+045.367	1+053.520	8.15		
1+053.520	1+063.620		10.10	
1+063.620	1+074.300	10.68		
1+074.300	1+078.000		3.70	
Right Side				
0+726.072	0+755.950	29.88 *		
0+755.950	0+768.850		12.90 *	
0+768.850	0+799.050	30.20 *		
0+799.050	0+831.550		9.10 *	
0+831.550	0+842.356	10.81 *		
0+842.356	0+884.288		13.41	
0+884.288	0+932.050	47.76		
0+932.050	0+945.750		13.70	
0+945.750	0+948.483	2.73		
0+948.483	0+962.983		14.50	
1+020.650	1+044.380	23.73		
1+044.380	1+054.480		10.10	
1+054.480	1+061.567	7.09		
1+061.567	1+073.287		11.70	
1+073.287	1+078.000	4.73		
MAPLE				
Left Side				
4+849.984	4+853.372	3.39		
4+853.372	4+866.072		12.70	
4+866.072	4+884.475	18.40		
4+884.475	4+926.090	14.51		
4+926.090	4+937.590		11.50	
4+937.590	4+942.440	4.85		
4+942.440	4+963.957		21.52	
4+963.957	4+978.600	14.64		
5+021.401	5+058.228	36.83		
5+058.228	5+072.228		14.00	
5+072.228	5+084.708	12.48		
5+084.708	5+092.969		8.26	
5+092.969	5+112.394	22.39		
5+112.394	5+134.780		8.50	
5+134.780	5+143.280	3.50		
5+143.280	5+146.780			
Right Side				
4+849.984	4+862.550		12.57	
4+862.550	4+892.092	29.54		
4+892.092	4+902.892		10.80	
4+902.892	4+978.600	75.71		
5+021.401	5+049.132	27.73		
5+049.132	5+068.866		17.73	
5+068.866	5+080.872	14.01		
5+080.872	5+094.572		13.50	
5+094.572	5+097.935	3.56		
5+097.935	5+109.235		11.3	
5+109.235	5+146.780	37.55		
TOTAL		705.53	319.87	317.38

* Non-Participating

* Non-Participating

PROTECTION CURB (SPECIAL) (AE)	
LOCATION	EDGE CURB
Intersection of Seneca & Maple	15.0
TOTAL	15.0

SIDEWALK CONST. (100MM) (AE)	
LOCATION	SIDEWALK CONST. (100MM) (AE) S.M.
Sta. 0+704.821 to Sta. 0+856.617 *	352.5
Sta. 0+856.617 to Sta. 1+078.000	585.6 **
Sta. 4+849.984 to Sta. 5+146.780 (Maple)	718.9
TOTAL	1,657.0

* Non-Participating
** Includes Intersection of Maple & Seneca

EDGE CURB (150MM) (AE)	
LOCATION	M.
Intersection of Seneca & University	28.3
Intersection of Seneca & Mentor	28.3
Intersection of Seneca & Maple	75.4
Intersection of Maple & Dodge	28.0
Intersection of Maple & Walnut	18.8
* Non-Participating 1/2 Non-Participating	
TOTAL	178.8

INLETS AND MANHOLES					
STREET	STATION	SIZE	R.C. Manhole	Type 'B' Inlet TYPE II	Type 'B' Inlet - Manhole
SENECA			Each	Each	Each
	0+726.072	LL	1		
	0+726.072	LL		1	
	0+726.072	RL		1	
	0+842.356	LL	1		
	0+842.356	LL		1	
	0+842.356	RL		1	
	0+990.715	LL	1		
	1+078.000	LL	1		
	1+078.000	LL		1	
	1+078.000	RL		1	