

Marshallton Streetscape and Traffic Calming Project
 Bid Price Breakdown
 March 17, 2011

Item No	Unit	Description	Special	Engineering Estimate			Low Bid - Contractor Price		Analysis	
				Quantity	Unit Cost	Estimated Cost	Bid Unit Cost	Bid Cost	\$ Difference	% Difference
4201-0001	LS	CLEARING AND GRUBBING MODIFIED	MODIFIED	1	\$22,615.00	\$22,615.00	\$40,890.00	\$40,890.00	\$18,275.00	80.81%
4203-0001	CY	CLASS 1 EXCAVATION MODIFIED	MODIFIED	2871	\$45.00	\$129,195.00	\$27.40	\$78,665.40	-\$50,529.60	-39.11%
203-0004	CY	CLASS 1B EXCAVATION		685	\$45.00	\$30,825.00	\$31.90	\$21,851.50	-\$8,973.50	-29.11%
204-0001	CY	CLASS 2 EXCAVATION		301	\$40.00	\$12,040.00	\$24.05	\$7,239.05	-\$4,800.95	-39.88%
204-0150	CY	CLASS 4 EXCAVATION		1266	\$21.00	\$26,586.00	\$15.60	\$19,749.60	-\$6,836.40	-25.71%
205-0100	CY	FOREIGN BORROW EXCAVATION		1428	\$25.00	\$35,700.00	\$8.90	\$12,709.20	-\$22,990.80	-64.40%
212-0001	LF	GEOTEXTILE, CLASS 1		4452	\$3.50	\$15,582.00	\$2.00	\$8,904.00	-\$6,678.00	-42.86%
212-0002	SY	GEOTEXTILE, CLASS 2, TYPE A		432	\$17.00	\$7,344.00	\$2.80	\$1,209.60	-\$6,134.40	-83.53%
212-0006	LF	GEOTEXTILE, CLASS 3, TYPE B		10	\$8.00	\$80.00	\$17.50	\$175.00	\$95.00	118.75%
212-0014	SY	GEOTEXTILE, CLASS 4, TYPE A		180	\$6.00	\$1,080.00	\$4.90	\$882.00	-\$198.00	-18.33%
309-0522	SY	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 3 TO < 10 MILLION ESALS, 25.0 MM MIX, 4" DEPTH		839	\$24.50	\$20,555.50	\$37.80	\$31,714.20	\$11,158.70	54.29%
309-0526	SY	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 3 TO < 10 MILLION ESALS, 25.0 MM MIX, 6" DEPTH		3951	\$25.15	\$99,367.65	\$26.25	\$103,713.75	\$4,346.10	4.37%
350-0106	SY	SUBBASE 6" DEPTH (NO. 2A)		4790	\$9.45	\$45,265.50	\$12.10	\$57,959.00	\$12,693.50	28.04%
409-0581	SY	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 3 TO < 10 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-E		11139	\$8.15	\$90,782.85	\$6.70	\$74,631.30	-\$16,151.55	-17.79%
409-6550	SY	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 3 TO < 10 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH		4790	\$12.20	\$58,438.00	\$12.00	\$57,480.00	-\$958.00	-1.64%
409-7530	TON	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE (LEVELING), PG 64-22, 3 TO < 10 MILLION ESALS, 25.0 MM MIX		150	\$70.00	\$10,500.00	\$67.00	\$10,050.00	-\$450.00	-4.29%
409-7570	TON	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE (LEVELING), PG 64-22, 3 TO < 10 MILLION ESALS, 19.0 MM MIX		375	\$85.00	\$31,875.00	\$68.55	\$25,706.25	-\$6,168.75	-19.35%
409-8520	SY	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, RPS, PG 64-22, 3 TO < 10 MILLION ESALS, 25.0 MM MIX, 4" DEPTH		570	\$30.00	\$17,100.00	\$15.50	\$8,835.00	-\$8,265.00	-48.33%
460-0001	SY	BITUMINOUS TACK COAT		10300	\$0.50	\$5,150.00	\$0.45	\$4,635.00	-\$515.00	-10.00%
491-0012	SY	MILLING OF BITUMINOUS PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR		6580	\$3.50	\$23,030.00	\$1.85	\$12,173.00	-\$10,857.00	-47.14%
601-7509	LF	18" REINFORCED CONCRETE PIPE, TYPE A, 7' - 3" FILL, SHORE/TRENCH BOX		69	\$70.00	\$4,830.00	\$228.00	\$15,732.00	\$10,902.00	225.71%
601-7510	LF	18" REINFORCED CONCRETE PIPE, TYPE A, 10' - 7" FILL, SHORE/TRENCH BOX		22	\$170.00	\$3,740.00	\$232.00	\$5,104.00	\$1,364.00	36.47%
604-7509	LF	18" REINFORCED CONCRETE PIPE, TYPE A, (OPEN JOINT), 7' - 3" FILL, SHORE/TRENCH BOX		812	\$75.00	\$60,900.00	\$102.00	\$82,824.00	\$21,924.00	36.00%
605-1480	EACH	MANHOLE		4	\$3,000.00	\$12,000.00	\$2,997.00	\$11,988.00	-\$12.00	-0.10%
605-2711	SET	TYPE C CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		14	\$800.00	\$11,200.00	\$843.00	\$11,802.00	\$602.00	5.38%
605-2711	SET	TYPE C CONCRETE TOP UNIT AND BICYCLE SAFE GRATE MODIFIED	MODIFIED	4	\$1,000.00	\$4,000.00	\$843.00	\$3,372.00	-\$628.00	-15.70%
605-2731	SET	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		13	\$685.00	\$8,905.00	\$726.00	\$9,438.00	\$533.00	5.99%
605-2850	EACH	STANDARD INLET BOX, HEIGHT <= 10'		17	\$1,650.00	\$28,050.00	\$1,956.00	\$33,252.00	\$5,202.00	18.55%
605-2854	EACH	TYPE 4 INLET BOX, HEIGHT <= 10'		11	\$2,300.00	\$25,300.00	\$2,580.50	\$28,385.50	\$3,085.50	12.20%
608-0001	LS	MOBILIZATION		1	\$60,000.00	\$60,000.00	\$123,200.00	\$123,200.00	\$63,200.00	105.33%
609-0003	LS	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B		1	\$5,000.00	\$5,000.00	\$9,215.00	\$9,215.00	\$4,215.00	84.30%
609-0009	LS	EQUIPMENT PACKAGE		1	\$4,000.00	\$4,000.00	\$5,712.00	\$5,712.00	\$1,712.00	42.80%
610-7002	LF	6" PAVEMENT BASE DRAIN		3026	\$10.00	\$30,260.00	\$18.40	\$55,678.40	\$25,418.40	84.00%
615-0040	EACH	SUBSURFACE DRAIN OUTLET ENDWALL		1	\$600.00	\$600.00	\$463.00	\$463.00	-\$137.00	-22.83%
633-0200	LF	PLAIN CONCRETE MOUNTABLE CURB, TYPE A		115	\$50.00	\$5,750.00	\$74.00	\$8,510.00	\$2,760.00	48.00%
686-0010	LS	CONSTRUCTION SURVEYING, TYPE A		1	\$10,000.00	\$10,000.00	\$40,962.00	\$40,962.00	\$30,962.00	309.62%
688-0002	LS	MICROCOMPUTER WITH BATTERY BACKUP SYSTEM, TYPE A		1	\$2,500.00	\$2,500.00	\$4,240.00	\$4,240.00	\$1,740.00	69.60%
689-0001	LS	NARRATIVE SCHEDULE		1	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$0.00	0.00%
703-0020	CY	NO. 1 COARSE AGGREGATE		38	\$70.00	\$2,660.00	\$90.50	\$3,439.00	\$779.00	29.29%
703-0025	CY	NO. 57 COARSE AGGREGATE		540	\$30.00	\$16,200.00	\$26.90	\$14,526.00	-\$1,674.00	-10.33%
703-0026	CY	NO. 3 COARSE AGGREGATE		180	\$45.00	\$8,100.00	\$42.80	\$7,704.00	-\$396.00	-4.89%
703-0027	CY	NO. 7 COARSE AGGREGATE		15	\$70.00	\$1,050.00	\$29.10	\$436.50	-\$613.50	-58.43%
802-0001	CY	TOPSOIL FURNISHED AND PLACED		414	\$35.00	\$14,490.00	\$35.70	\$14,779.80	\$289.80	2.00%
804-0011	LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B		52	\$18.00	\$936.00	\$21.95	\$1,141.40	\$205.40	21.94%
804-0014	LB	SEEDING - FORMULA E		56	\$15.00	\$840.00	\$15.30	\$856.80	\$16.80	2.00%
804-0020	LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA L		31	\$20.00	\$620.00	\$18.90	\$585.90	-\$34.10	-5.50%
805-0015	SY	MULCHING - SHREDDED BARK		209	\$15.00	\$3,135.00	\$3.85	\$804.65	-\$2,330.35	-74.33%
805-0021	TON	MULCHING - HAY		5	\$62.00	\$310.00	\$300.00	\$1,500.00	\$1,190.00	383.87%
806-0051	SY	EROSION CONTROL MULCH BLANKET		1285	\$6.00	\$7,710.00	\$1.40	\$1,799.00	-\$5,911.00	-76.67%
806-0055	SY	TURF REINFORCEMENT MAT		85	\$15.00	\$1,275.00	\$4.85	\$412.25	-\$862.75	-67.67%
808-0001	SY	SHRUB BED PREPARATION		209	\$20.00	\$4,180.00	\$10.20	\$2,131.80	-\$2,048.20	-49.00%
4809-0001	SY	SODDING MODIFIED	MODIFIED	1102	\$30.00	\$33,060.00	\$12.00	\$13,224.00	-\$19,836.00	-60.00%
845-0001	DOLL	UNFORESEEN WATER POLLUTION CONTROL		5000	\$1.00	\$5,000.00	\$1.00	\$5,000.00	\$0.00	0.00%
850-0031	CY	ROCK, CLASS R-3		24	\$75.00	\$1,800.00	\$80.50	\$1,932.00	\$132.00	7.33%
855-0003	EACH	PUMPED WATER FILTER BAG		1	\$250.00	\$250.00	\$1,120.00	\$1,120.00	\$870.00	348.00%
860-0000	EACH	INLET FILTER BAG FOR TYPE M INLET		27	\$150.00	\$4,050.00	\$215.60	\$5,821.20	\$1,771.20	43.73%
860-0002	EACH	INLET FILTER BAG FOR TYPE C INLET		18	\$150.00	\$2,700.00	\$215.60	\$3,880.80	\$1,180.80	43.73%
865-0001	LF	SILT BARRIER FENCE, 18" HEIGHT		1788	\$3.00	\$5,364.00	\$2.20	\$3,933.60	-\$1,430.40	-26.67%
901-0001	LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION		1	\$70,000.00	\$70,000.00	\$135,922.00	\$135,922.00	\$65,922.00	94.17%
901-0320	LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, YELLOW		12350	\$0.75	\$9,262.50	\$0.20	\$2,470.00	-\$6,792.50	-73.33%
901-0330	LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		7410	\$0.75	\$5,557.50	\$0.20	\$1,482.00	-\$4,075.50	-73.33%
932-0001	SF	POST MOUNTED SIGNS, TYPE C		110	\$25.00	\$2,750.00	\$69.50	\$7,645.00	\$4,895.00	178.00%

960-0001	LF	4" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	6205	\$0.60	\$3,723.00	\$0.70	\$4,343.50	\$620.50	16.67%
960-0005	LF	6" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	255	\$3.00	\$765.00	\$2.05	\$522.75	-\$242.25	-31.67%
963-0001	SF	PAVEMENT MARKING REMOVAL	6520	\$2.60	\$16,952.00	\$2.15	\$14,018.00	-\$2,934.00	-17.31%
964-0002	LF	4" YELLOW EPOXY PAVEMENT MARKINGS	5870	\$0.60	\$3,522.00	\$0.70	\$4,109.00	\$587.00	16.67%
966-0011	EACH	SNOWPLOWABLE RAISED PAVEMENT MARKER TWO WAY HOLDER WITH REFLECTOR (Y/Y)	71	\$60.00	\$4,260.00	\$30.60	\$2,172.60	-\$2,087.40	-49.00%
966-0017	EACH	SNOWPLOWABLE RAISED PAVEMENT MARKER TWO WAY HOLDER WITH REFLECTOR (Y/B)	50	\$60.00	\$3,000.00	\$30.60	\$1,530.00	-\$1,470.00	-49.00%
9000-0100	SY	BRICK SIDEWALK	1423	\$145.00	\$206,335.00	\$115.15	\$163,858.45	-\$42,476.55	-20.59%
9000-0101	SY	REINFORCED BRICK PARKING AREA	173	\$190.00	\$32,870.00	\$115.15	\$19,920.95	-\$12,949.05	-39.39%
9601-0001	LF	4" SDR-11 HIGH DENSITY POLYETHYLENE FORCE MAIN	755	\$55.00	\$41,525.00	\$67.00	\$50,585.00	\$9,060.00	21.82%
9601-0002	EACH	RESET CURB STOP ASSEMBLY	18	\$350.00	\$6,300.00	\$580.00	\$10,440.00	\$4,140.00	65.71%
9601-0003	EACH	RELOCATE CURB STOP ASSEMBLY	16	\$800.00	\$12,800.00	\$732.00	\$11,712.00	-\$1,088.00	-8.50%
9601-0004	EACH	RESET INLINE CLEAN OUT	4	\$500.00	\$2,000.00	\$5,821.00	\$23,284.00	\$21,284.00	1064.20%
9601-0005	EACH	RELOCATE INLINE CLEAN OUT	1	\$1,000.00	\$1,000.00	\$5,874.00	\$5,874.00	\$4,874.00	487.40%
9601-0006	EACH	RESET ARV SEWER MANHOLE	1	\$600.00	\$600.00	\$696.00	\$696.00	\$96.00	16.00%
9601-0007	LF	3" SDR-11 HIGH DENSITY POLYETHYLENE FORCE MAIN	25	\$55.00	\$1,375.00	\$102.00	\$2,550.00	\$1,175.00	85.45%
9601-0100	LF	6" HIGH DENSITY POLYETHYLENE PIPE	149	\$50.00	\$7,450.00	\$35.75	\$5,326.75	-\$2,123.25	-28.50%
9601-7509	LF	14" X 23" HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A, 3' - 7' FILL	143	\$90.00	\$12,870.00	\$163.00	\$23,309.00	\$10,439.00	81.11%
9604-0001	LF	8" PERFORATED HIGH DENSITY POLYETHYLENE PIPE	300	\$38.00	\$11,400.00	\$32.75	\$9,825.00	-\$1,575.00	-13.82%
9604-0002	LF	18" PERFORATED HIGH DENSITY POLYETHYLENE PIPE	146	\$58.00	\$8,468.00	\$47.10	\$6,876.60	-\$1,591.40	-18.79%
9604-7509	LF	14" X 23" HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A, OPEN JOINT, 3' - 7' FILL	634	\$74.00	\$46,916.00	\$102.00	\$64,668.00	\$17,752.00	37.84%
9605-0001	EACH	MODIFIED TYPE 5 INLET BOX	3	\$4,800.00	\$14,400.00	\$3,343.00	\$10,029.00	-\$4,371.00	-30.35%
9605-0002	EACH	18" SQUARE YARD DRAIN	6	\$500.00	\$3,000.00	\$1,116.30	\$6,697.80	\$3,697.80	123.26%
9605-0003	EACH	MODIFIED TYPE 4 INLET BOX	3	\$3,000.00	\$9,000.00	\$1,926.15	\$5,778.45	-\$3,221.55	-35.80%
9605-2600	EACH	MODIFIED TYPE D ENDWALL	2	\$1,200.00	\$2,400.00	\$1,511.30	\$3,022.60	\$622.60	25.94%
9616-0001	EACH	HORIZONTAL ELLIPTICAL CONCRETE END SECTION	1	\$1,200.00	\$1,200.00	\$1,638.60	\$1,638.60	\$438.60	36.55%
9630-0001	LF	6" COLORED PLAIN CEMENT CONCRETE CURB	486	\$27.00	\$13,122.00	\$45.00	\$21,870.00	\$8,748.00	66.67%
9630-0002	LF	8" COLORED PLAIN CEMENT CONCRETE CURB	3680	\$27.00	\$99,360.00	\$37.50	\$138,000.00	\$38,640.00	38.89%
9660-0030	LF	MILLED BITUMINOUS CENTERLINE RUMBLE STRIPS	360	\$1.00	\$360.00	\$9.90	\$3,564.00	\$3,204.00	890.00%
9674-0001	LF	FIELDSTONE SEGMENTAL WALL	80	\$25.00	\$2,000.00	\$255.00	\$20,400.00	\$18,400.00	920.00%
9676-0001	SY	COLORED CEMENT CONCRETE SIDEWALK	191	\$120.00	\$22,920.00	\$115.00	\$21,965.00	-\$955.00	-4.17%
9676-0002	EACH	WALKWAY ADJUSTMENT	26	\$300.00	\$7,800.00	\$1,265.00	\$32,890.00	\$25,090.00	321.67%
9676-0003	EACH	STEP ADJUSTMENT	16	\$800.00	\$12,800.00	\$1,787.00	\$28,592.00	\$15,792.00	123.38%
9695-0001	SF	SIDEWALK DETECTABLE WARNING SURFACE, CAST IRON MODIFIED	207	\$30.00	\$6,210.00	\$38.25	\$7,917.75	\$1,707.75	27.50%
9695-0002	SF	SIDEWALK DETECTABLE WARNING SURFACE, POLYMER CONCRETE	207	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
9695-0003	SF	SIDEWALK DETECTABLE WARNING SURFACE, POLYMER COMPOSITE	207	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
9802-0001	CY	AMENDED SOIL	339	\$50.00	\$16,950.00	\$76.50	\$25,933.50	\$8,983.50	53.00%
9802-0002	CY	ECOLOGY MIXTURE	55	\$60.00	\$3,300.00	\$107.10	\$5,890.50	\$2,590.50	78.50%
9808-0001	EACH	RED MAPLE OCTOBER GLORY - ACER RUBRUM "AUTUMN FLAME", 2.5" TO 3.5" CAL. AT D.B.H., B&B	2	\$500.00	\$1,000.00	\$367.20	\$734.40	-\$265.60	-26.56%
9808-0002	EACH	EASTERN REDBUD - CERCIIS CANADENSIS, 2.5" TO 3.5" CAL. AT D.B.H., B&B	9	\$500.00	\$4,500.00	\$275.40	\$2,478.60	-\$2,021.40	-44.92%
9808-0003	EACH	ALTERNATE LEAF DOGWOOD CORNACEAE - CORNUS ALTERNIFOLIA, 2.5" TO 3.5" CAL. AT D.B.H., B&B	8	\$500.00	\$4,000.00	\$504.90	\$4,039.20	\$39.20	0.98%
9808-0004	EACH	AMERICAN SMOKETREE ANACARDIACEAE - CONTINUS OBOVATUS, 2.5" TO 3.5" CAL. AT D.B.H., B&B	4	\$500.00	\$2,000.00	\$535.50	\$2,142.00	\$142.00	7.10%
9808-0005	EACH	HEDGE MAPLE - ACER CAMPESTRE, 2.5" TO 3.5" CAL. AT D.B.H., B&B	7	\$500.00	\$3,500.00	\$443.70	\$3,105.90	-\$394.10	-11.26%
9808-0006	EACH	ACCOLADE FLOWERING CHERRY - PRUNUS "ACCOLADE", 2.5" TO 3.5" CAL. AT D.B.H., B&B	8	\$500.00	\$4,000.00	\$535.50	\$4,284.00	\$284.00	7.10%
9808-0007	EACH	FLOWERING CRABAPPLE - MALUS "ADIRONDACK", 2.5" TO 3.5" CAL. AT D.B.H., B&B	7	\$500.00	\$3,500.00	\$336.60	\$2,356.20	-\$1,143.80	-32.68%
9808-0008	EACH	WIRELESS ZELKOVA - ZELKOVA SERRATA "SCHMIDTLOW", 2.5" TO 3.5" CAL. AT D.B.H., B&B	7	\$500.00	\$3,500.00	\$657.90	\$4,605.30	\$1,105.30	31.58%
9808-0009	EACH	CRAPPE MYRTLE - LAGERSTROEMIA INDICIA, 2.5" TO 3.5" CAL. AT D.B.H., B&B	2	\$500.00	\$1,000.00	\$402.90	\$805.80	-\$194.20	-19.42%
9808-0010	EACH	STRIPED MAPLE ACERACEAE - ACER PENNSYLVANICUM, 2.5" TO 3.5" CAL. AT D.B.H., B&B	3	\$500.00	\$1,500.00	\$596.70	\$1,790.10	\$290.10	19.34%
9808-0011	EACH	SWAMP WHITE OAK - QUERCUS BICOLOR, 2.5" TO 3.5" CAL. AT D.B.H., B&B	2	\$500.00	\$1,000.00	\$367.20	\$734.40	-\$265.60	-26.56%
9808-0012	EACH	NORTHERN RED OAK - QUERCUS RUBRA, 2.5" TO 3.5" CAL. AT D.B.H., B&B	2	\$500.00	\$1,000.00	\$367.20	\$734.40	-\$265.60	-26.56%
9808-0100	LS	WESTERN GATEWAY PLANTINGS	1	\$4,000.00	\$4,000.00	\$5,610.00	\$5,610.00	\$1,610.00	40.25%
9942-0002	EACH	RESET POST MOUNTED SIGNS TO TYPE C	16	\$150.00	\$2,400.00	\$443.70	\$7,099.20	\$4,699.20	195.80%
9942-0003	LS	RELOCATE MARSHALLTON INN SIGN	1	\$7,500.00	\$7,500.00	\$2,218.50	\$2,218.50	-\$5,281.50	-70.42%
9960-0007	SY	STAMPED ASPHALT CROSSWALK	145	\$205.00	\$29,725.00	\$160.15	\$23,221.75	-\$6,503.25	-21.88%
9960-0400	EACH	WHITE HOT THERMOPLASTIC LEGEND, "AHEAD", 8'-0" X 9'-3"	1	\$150.00	\$150.00	\$306.00	\$306.00	\$156.00	104.00%
9960-0401	EACH	WHITE HOT THERMOPLASTIC LEGEND, "35 MPH", 8'-0" X 9'-3"	1	\$150.00	\$150.00	\$306.00	\$306.00	\$156.00	104.00%

Engineering Estimate

\$1,876,824.50

Low Bid - Contractor Price

\$2,089,981.00

Difference

\$213,156.50

11.36%

Over 50% difference =