

APPENDIX G
Preliminary Estimate of
Construction Costs

Westchester County Department of Public Works
Ashford Avenue Bridge over I-87 and Saw Mill River Parkway
Preliminary Estimate of Construction Costs

PIN 8760.92

WSP SELLS				Quantity Per Share					10/22/2012	
Item	Description	Unit	Unit Cost	SHARE 1	SHARE 2	SHARE 3	SHARE 4	SHARE 5	Total Quantity	Cost
				MAINLINE	BRIDGE	RAMP	BRIDGE	VERIZON		
				HIGHWAY	BRIDGE	HIGHWAY	BRIDGE	VERIZON		
202.12	REMOVAL OF SUPERSTRUCTURE	LS	\$ 900,000.00		0.78		0.22		1	\$ 900,000.00
202.19	REMOVAL OF SUBSTRUCTURES	CY	\$ 160.00		1260		500		1760	\$ 281,600.00
203.03	EMBANKMENT IN PLACE	CY	\$ 10.00				1600		1600	\$ 16,000.00
203.03090017	LIGHTWEIGHT CONCRETE FILL (TYPE B)	CY	\$ 235.00					38	38	\$ 8,930.00
203.21	SELECT STRUCTURE FILL	CY	\$ 50.00		450		1100		1550	\$ 77,500.00
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	CY	\$ 90.00					137	137	\$ 12,330.00
206.01	STRUCTURE EXCAVATION	CY	\$ 35.00		950		620		1570	\$ 54,950.00
206.02	TRENCH AND CULVERT EXCAVATION	CY	\$ 60.00	10				182	192	\$ 11,520.00
304.11--08	SUBBASE COURSE - MODIFIED	CY	\$ 70.00	105		246			351	\$ 24,570.00
402.128102	12.5 F1 TOP COURSE HMA, 60 SERIES COMPACTION	TON	\$ 115.00	73	219	140		70	502	\$ 57,730.00
402.196902	19 F9 BINDER COURSE HMA, 60 SERIES COMPACTION	TON	\$ 115.00			120			120	\$ 13,800.00
402.376902	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION	TON	\$ 115.00			300			300	\$ 34,500.00
407.0101	TACK COAT	GAL	\$ 14.00	20		190			210	\$ 2,940.00
520.5014-08	SAW CUTTING ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT, OR ASPHALT OVERLAY ON CONCRETE PAVEMENT	LF	\$ 5.00	1200		100		570	1870	\$ 9,350.00
552.13	TEMPORARY STEEL SHEETING	SF	\$ 30.00		2640				2640	\$ 79,200.00
554.41	FILL TYPE RETAINING WALL (GREATER THAN 6FT. - 12FT.)	SF	\$ 100.00				2000		2000	\$ 200,000.00
554.42	FILL TYPE RETAINING WALL (GREATER THAN 12FT. - 18FT.)	SF	\$ 100.00				5500		5500	\$ 550,000.00
554.5102	FILL TYPE RETAINING WALL AESTHETIC TREATMENT - EXPOSED AGGREGATE FINISH, INTEGRAL COLOR	SF	\$ 3.00				7500		7500	\$ 22,500.00
555.08	FOOTING CONCRETE, CLASS HP	CY	\$ 650.00		500				500	\$ 325,000.00
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	\$ 1,250.00		1190				1190	\$ 1,487,500.00
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	\$ 3.25		169000				169000	\$ 549,250.00
557.2001	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYPE 1 FRICTION	SY	\$ 500.00		330				330	\$ 165,000.00
557.30	SIDEWALKS AND SAFETY WALKS	SY	\$ 275.00		449				449	\$ 123,475.00
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	\$ 6.00		2100				2100	\$ 12,600.00
WC563.88	PRECAST PRECOMPRESSED CONCRETE/ STEEL COMPOSITE SUPERSTRUCTURE	SF	\$ 165.00		22910				22910	\$ 3,780,150.00
565.2022	TYPE E.B FIXED BEARING (56 TO 111 KIPS)	EA	\$ 3,000.00		72				72	\$ 216,000.00
565.2032	TYPE E.B EXPANSION BEARING (56 TO 111 KIPS)	EA	\$ 2,520.00		72				72	\$ 181,440.00
567.60	ARMORLESS BRIDGE JOINT SYSTEM	LF	\$ 250.00		236				236	\$ 59,000.00
568.70	TRANSITION BRIDGE RAILING	LF	\$ 120.00		37				37	\$ 4,440.00
569.03	VERTICAL FACED CONCRETE PARAPET	LF	\$ 300.00		1,000				1,000	\$ 300,000.00
570.01	LEAD EXPOSURE CONTROL PLAN	LS	\$ 680.00		1				1	\$ 680.00
570.02	MEDICAL TESTING	DC	\$ 1.00		1780				1780	\$ 1,780.00
570.03	PERSONAL EXPOSURE MONITORING SAMPLE ANALYSIS	DC	\$ 1.00		1780				1780	\$ 1,780.00
570.04	DECONTAMINATION FACILITIES	CW	\$ 600.00		12				12	\$ 7,200.00
570.09	ENVIRONMENTAL GROUND PROTECTION	LS	\$ 12,000.00		0.67		0.33		1	\$ 12,000.00
570.10	ENVIRONMENTAL WATERWAY PROTECTION	LS	\$ 8,000.00		1				1	\$ 8,000.00
582.05	REMOVAL OF STRUCTURAL CONCRETE, REPLACEMENT WITH CLASS A CONCRETE	CY	\$ 5,000.00		100				100	\$ 500,000.00
WC585.35	TEMPORARY BRIDGE DECK SUPPORT	EA	\$ 20,000.00		10				10	\$ 200,000.00
586.02	DRILLING AND GROUTING BOLTS OR REINFORCEMENT BARS	EA	\$ 50.00		770				770	\$ 38,500.00
587.01	BRIDGE RAILING REMOVAL AND DISPOSAL	LF	\$ 18.50		1,090		630		1720	\$ 31,820.00
604.30XXYY	RECTANGULAR DRAINAGE STRUCTURE	LF	\$ 400.00	12					12	\$ 4,800.00
606.10	BOX BEAM GUIDE RAIL	LF	\$ 35.00			150			150	\$ 5,250.00
606.120101	BOX BEAM END PIECE	EA	\$ 520.00			1			1	\$ 520.00
606.30420208	SINGLE SLOPE TRAFFIC BARRIER WITH MOMENT SLAB (OPTIONAL)	LF	\$ 500.00				620		620	\$ 310,000.00
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	\$ 5.00	36					36	\$ 180.00
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF	\$ 3.00			150			150	\$ 450.00
606.8704	CORRUGATED BEAM GUIDE RAILING TRANSITION ASSEMBLY CONCRETE PARAPETS, OR CONCRETE BARRIER	EA	\$ 6,700.00		1				1	\$ 6,700.00
606.8803	TRANSITION BETWEEN BOX BEAM GUIDE RAIL AND SINGLE SLOPE HALF SECTION CONCRETE BARRIER (ONE OR TWO WAY OPERATION)	EA	\$ 5,000.00				2		2	\$ 10,000.00
607.0640-16	PEDESTRIAN FENCING FOR BRIDGES	LF	\$ 122.00		1,000				1,000	\$ 122,000.00
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	\$ 610.00	200					200	\$ 122,000.00
609.XXXX	BRIDGE CURB	LF	\$ 34.00		870				870	\$ 29,580.00
609.0407	CAST-IN-PLACE CONCRETE CURB TYPE T100	LF	\$ 22.00			195			195	\$ 4,280.00
609.0901	OPTIONAL CURB	LF	\$ 20.00	200					200	\$ 4,000.00
619.01	BASIC WORK ZONE TRAFFIC CONTROL (15%)	LS	\$ 2,438,000.00	0.95		0.05			1	\$ 2,438,000.00
626.01	SURVEY OPERATIONS	LS	\$ 75,000.00	0.87		0.13			1	\$ 75,000.00
645.XXXX	SIGNAGE - ALLOWANCE	LS	\$ 10,000.00	1					1	\$ 10,000.00
659.1816-08	FURNISH AND INSTALL PVC CONDUIT(S) OFF STRUCTURE (TELEPHONE) FIXED PRICE	FPLS	\$ 33,600.00					1	1	\$ 33,600.00
662.1810-08	FURNISH AND INSTALL FIBERGLASS CONDUIT ON STRUCTURE (TELEPHONE)	FPLS	\$ 143,500.00					1	1	\$ 143,500.00
662.6050-08	FURNISH AND INSTALL PRECAST MANHOLE (TELEPHONE)	EA	\$ 15,000.00					2	2	\$ 30,000.00
670.90	RELOCATE LAMPOST ASSEMBLY	EA	\$ 1,300.00	4					4	\$ 5,200.00
680.XXXX	TRAFFIC SIGNALS - ALLOWANCE PER INTERSECTION	INT	\$ 125,000.00	1					1	\$ 125,000.00
685.01	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF	\$ 0.50	1465		620			2085	\$ 1,042.50
685.02	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF	\$ 0.50	1352		620			1972	\$ 986.00
685.03	WHITE EPOXY REFLECTORIZED PAVEMENT LETTERS - 15 MILS	EA	\$ 100.00	8					8	\$ 800.00
685.04	WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS - 15 MILS	EA	\$ 150.00	3					3	\$ 450.00
				SUBTOTAL:	\$2,687,463.50	\$9,209,975.00	\$217,910.00	\$1,480,855.00	\$250,180.00	
697.03	FIELD CHANGE PAYMENT	DC	\$ 1.00	\$129,736.49	\$444,608.77	\$10,519.54	\$71,467.83	\$12,077.36	668430	\$ 668,430.00
				SUBTOTAL w/FCP:	\$2,817,199.99	\$9,654,583.77	\$228,429.54	\$1,552,342.83	\$262,257.36	\$ 14,514,813.50
				CONTINGENCY (20%):	\$563,440.00	\$1,930,916.75	\$45,685.91	\$310,468.57	\$52,451.47	\$ 2,902,962.70
				MOBILIZATION (4%):	\$135,225.80	\$463,420.02	\$10,964.62	\$74,512.48	\$12,588.35	\$ 696,711.05
					\$3,516,865.59	\$12,048,920.55	\$285,080.07	\$1,937,323.85	\$327,297.19	\$18,114,487.25
				OVERALL TOTALS:	\$3,516,000.00	\$12,049,000.00	\$286,000.00	\$1,938,000.00	\$328,000.00	\$18,117,000.00
				2016 - MIDPOINT CONSTRUCTION:	\$3,958,000.00	\$13,562,000.00	\$322,000.00	\$2,182,000.00	\$370,000.00	\$20,394,000.00