

APPENDIX G

Conceptual Quantity and Cost Estimates

Quantity Estimates

Truck Route Plan for the City of Sharon
Conceptual Quantity Estimates

Last Updated 9-13-2007

Truck Route Signing								
SIGN	DESCRIPTION	SIZE	QTY (Each) Total	QTY (Each) Type B	QTY (Each) Type F	AREA (SF) per Sign	QTY (SF) Type B	QTY (SF) Type F
M5-1R	Advance 90 Degree Right Turn (marker)	21" x 15"	3		3	2.2	0.0	6.6
M5-2R	Advance 45 Degree Right Turn (marker)	21" x 15"	1		1	2.2	0.0	2.2
M6-1	90 Degree Turn (marker)	21" x 15"	24		24	2.2	0.0	52.5
M6-2R	45 Degree Right Turn (marker)	21" x 15"	1		1	2.2	0.0	2.2
M6-3	Straight Through (marker)	21" x 15"	21		21	2.2	0.0	45.9
R14-1	Truck Route	24" x 18"	43	43		3.0	129.0	0.0
S-1	Sharon Truck Route Marker (Blue)	24" x 18"	17		17	3.0	0.0	51.0
S-2	Sharon Truck Route Marker (Orange)	24" x 18"	19		19	3.0	0.0	57.0
S-3	Sharon Truck Wayfinding Panel (1-Line)	24" x 15"	3	1	2	2.5	2.5	5.0
	- Goldstein's		1	1				
	- Crosstex		1		1			
	- Carine's		1		1			
S-4	Sharon Truck Wayfinding Panel (2-Line)	24" x 15"	38	6	32	2.5	15.0	80.0
	- Winner Steel		2	2				
	- GATES A-B		1		1			
	- GATES C-D		1		1			
	- Tiger Sales		1		1			
	- Winner Int'l		1	1				
	- Jolley Industries		2	2				
	- Sharon Printing		2		2			
	- Sharon Tube		1	1				
	- TO PA 60		12		12			
	- TO US 62		11		11			
	- TO US 62 N		1		1			
	- TO US 62 S		3		3			
Varies	Miscellaneous Truck Prohibition Signs (Estimated)	Varies	15	15		4.0	60.0	0.0
Varies	Miscellaneous Truck Prohibition Signs (Estimated)	Varies	15		15	2.0	0.0	30.0
TOTALS			200	65	135	-	207	333

Truck Route Plan for the City of Sharon
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Silver Street Improvements	
Description	Quantity
CLASS 1B EXCAVATION	3425 SF x 1.8' = 6165 CF = 229 CY SAY 235 CY
SUBBASE 6" DEPTH (NO. 2A)	2770 SF = 308 SY SAY 315 SY
SUPERPAVE BASE COURSE, 8" DEPTH	2770 SF = 308 SY SAY 315 SY
SUPERPAVE BINDER COURSE, 4" DEPTH	2770 SF = 308 SY SAY 315 SY
SUPERPAVE WEARING COURSE, 2" DEPTH	2770 SF = 308 SY SAY 315 SY
PLAIN CEMENT CONCRETE CURB	20' + 57' + 134' = 211 LF SAY 215 LF
CEMENT CONCRETE SIDEWALK	527 SF = 59 SY SAY 65 SY
4" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	8' + 20' + 128' + 26' + 80' = 262 LF SAY 265 LF
24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	275 LF SAY 280 LF
MISCELLANEOUS - RIGHT OF WAY	
MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	
MISCELLANEOUS - PROPERTY IMPROVEMENTS (CHAINLINK FENCE REPLACEMENT)	
MISCELLANEOUS - RAILROAD CROSSING EXT.	

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Pitt Street Improvements		
Description	Quantity	
CLASS 1B EXCAVATION	392 SF x 1.8' = 706 CF = 27 CY	SAY 30 CY
SUBBASE 6" DEPTH (NO. 2A)	292 SF = 33 SY	SAY 40 SY
SUPERPAVE BASE COURSE, 8" DEPTH	292 SF = 33 SY	SAY 40 SY
SUPERPAVE BINDER COURSE, 4" DEPTH	292 SF = 33 SY	SAY 40 SY
SUPERPAVE WEARING COURSE, 2" DEPTH	292 SF = 33 SY	SAY 40 SY
PLAIN CEMENT CONCRETE CURB	23' + 35' = 58 LF	SAY 65 LF
CEMENT CONCRETE SIDEWALK	100 SF = 12 SY	SAY 15 SY
MISCELLANEOUS - RIGHT OF WAY		
MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)		
MISCELLANEOUS - RAILROAD CROSSING EXT.		

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Railroad Street Connection	
Description	Quantity
CLASS 1 EXCAVATION	14230 SF x 1.8' = 25614 CF = 949 CY SAY 955 CY
SUBBASE 6" DEPTH (NO. 2A)	14230 SF = 1581 SY SAY 1590 SY
SUPERPAVE BASE COURSE, 8" DEPTH	14230 SF = 1581 SY SAY 1590 SY
SUPERPAVE BINDER COURSE, 4" DEPTH	14230 SF = 1581 SY SAY 1590 SY
SUPERPAVE WEARING COURSE, 2" DEPTH	14230 SF = 1581 SY SAY 1590 SY
PLAIN CEMENT CONCRETE CURB	470' + 466' = 936 LF SAY 940 LF
4" YELLOW HOT THERMOPLASTIC PAVEMENT MARKINGS	362' x 2 = 724 LF SAY 725 LF
24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	28' + 16' = 44 LF SAY 45 LF
MISCELLANEOUS - RIGHT OF WAY	
MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	

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Wishart Court Improvements	
Description	Quantity
CLASS 1B EXCAVATION	6891 SF x 1.8' = 12404 CF = 460 CY SAY 465 CY
SUBBASE 6" DEPTH (NO. 2A)	6677 SF = 742 SY SAY 750 SY
SUPERPAVE BASE COURSE, 8" DEPTH	6677 SF = 742 SY SAY 750 SY
SUPERPAVE BINDER COURSE, 4" DEPTH	6677 SF = 742 SY SAY 750 SY
SUPERPAVE WEARING COURSE, 2" DEPTH	6677 SF = 742 SY SAY 750 SY
PLAIN CEMENT CONCRETE CURB	178' + 197' + 91' = 446 LF SAY 450 LF
CEMENT CONCRETE SIDEWALK	215 SF = 24 SY SAY 30 SY
POST MOUNTED SIGNS TYPE B	4 SF x 3 = 12 SF SAY 12 SF
4" YELLOW HOT THERMOPLASTIC PAVEMENT MARKINGS	100' x 2 + 100' x 2 + 245' x 2 = 890 LF SAY 900 LF
24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	16' + 24' + 36' + 13' = 89 LF SAY 95 LF
MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	
SIGNALIZATION	

Truck Route Plan for the City of Sharon
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Bud Street Reconnection	
Description	Quantity
RAILROAD PREEMPTION	

Cost Estimates

Truck Route Plan for the City of Sharon
Conceptual Cost Estimates

Last Updated 9-13-2007

General Signing and Pavement Markings (Connelly Blvd. @ US 62 / Sharpsville Avenue)					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0931-0001	SF	POST MOUNTED SIGNS, TYPE B	20	\$30.00	\$600.00
0960-0002	LF	4" YELLOW HOT THERMOPLASTIC PAVEMENT MARKINGS	600	\$1.25	\$750.00
0960-0021	LF	24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	24	\$10.00	\$240.00
SUBTOTAL					\$1,590.00
CONTINGENCIES			15% OF SUBTOTAL		\$238.50
ENGINEERING			12% OF SUBTOTAL		\$190.80
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$127.20
TOTAL					\$2,146.50

Truck Route Plan for the City of Sharon
Conceptual Cost Estimates

Last Updated 9-13-2007

Traffic Signal Modifications (Connelly Blvd. @ US 62 / Sharpsville Avenue and Dock Street)					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
-	LS	TRAFFIC SIGNAL OPTIMIZATION	2	\$3,050.00	\$6,100.00
SUBTOTAL					\$6,100.00
CONTINGENCIES			15% OF SUBTOTAL		\$915.00
ENGINEERING			12% OF SUBTOTAL		\$732.00
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$488.00
TOTAL					\$8,235.00

Truck Route Plan for the City of Sharon
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Traffic Signal Modifications (US 62 @ Budd Street)					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
-	LS	TRAFFIC SIGNAL DETECTION MODIFICATIONS	1	\$1,000.00	\$1,000.00
SUBTOTAL					\$1,000.00
CONTINGENCIES			15% OF SUBTOTAL		\$150.00
ENGINEERING			12% OF SUBTOTAL		\$120.00
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$80.00
TOTAL					\$1,350.00

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Truck Route Signing					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0931-0001	SF	POST MOUNTED SIGNS, TYPE B	207	\$30.00	\$6,210.00
0935-0001	SF	POST MOUNTED SIGNS, TYPE F	333	\$17.50	\$5,827.50
SUBTOTAL					\$12,037.50
CONTINGENCIES			15% OF SUBTOTAL		\$1,805.63
ENGINEERING			12% OF SUBTOTAL		\$1,444.50
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$963.00
TOTAL					\$16,250.63

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Silver Street Improvements					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0203-0004	CY	CLASS 1B EXCAVATION	235	\$40.00	\$9,400.00
0309-XXXX	SY	SUPERPAVE BASE COURSE, 8" DEPTH	315	\$25.00	\$7,875.00
0350-0106	SY	SUBBASE 6" DEPTH (NO. 2A)	315	\$14.00	\$4,410.00
0409-XXXX	SY	SUPERPAVE WEARING COURSE, 2" DEPTH	315	\$25.00	\$7,875.00
0409-XXXX	SY	SUPERPAVE BINDER COURSE, 4" DEPTH	315	\$15.00	\$4,725.00
0630-0001	LF	PLAIN CEMENT CONCRETE CURB	215	\$40.00	\$8,600.00
0676-0001	SY	CEMENT CONCRETE SIDEWALK	65	\$100.00	\$6,500.00
0960-0001	LF	4" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	265	\$1.25	\$331.25
0960-0021	LF	24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	280	\$10.00	\$2,800.00
	LS	MISCELLANEOUS - RIGHT OF WAY	1	\$3,000.00	\$3,000.00
		MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	1	\$5,000.00	\$5,000.00
		MISCELLANEOUS - PROPERTY IMPROVEMENTS (CHAINLINK FENCE REPLACEMENT)	1	\$2,500.00	\$2,500.00
	LF	RAILROAD CROSSING EXT.	95	\$1,300.00	\$123,500.00
SUBTOTAL					\$186,516.25
CONTINGENCIES				15% OF SUBTOTAL	\$27,977.44
ENGINEERING				12% OF SUBTOTAL	\$22,381.95
CONSTRUCTION INSPECTION				8% OF SUBTOTAL	\$14,921.30
TOTAL					\$251,796.94

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Pitt Street Improvements					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0203-0004	CY	CLASS 1B EXCAVATION	30	\$40.00	\$1,200.00
0309-XXXX	SY	SUPERPAVE BASE COURSE, 8" DEPTH	40	\$25.00	\$1,000.00
0350-0106	SY	SUBBASE 6" DEPTH (NO. 2A)	40	\$14.00	\$560.00
0409-XXXX	SY	SUPERPAVE WEARING COURSE, 2" DEPTH	40	\$25.00	\$1,000.00
0409-XXXX	SY	SUPERPAVE BINDER COURSE, 4" DEPTH	40	\$15.00	\$600.00
0630-0001	LF	PLAIN CEMENT CONCRETE CURB	65	\$40.00	\$2,600.00
0676-0001	SY	CEMENT CONCRETE SIDEWALK	15	\$100.00	\$1,500.00
	LS	MISCELLANEOUS - RIGHT OF WAY	1	\$2,000.00	\$2,000.00
		MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	1	\$5,000.00	\$5,000.00
	LF	RAILROAD CROSSING EXT.	55	\$1,300.00	\$71,500.00
SUBTOTAL					\$86,960.00
CONTINGENCIES			15% OF SUBTOTAL		\$13,044.00
ENGINEERING			12% OF SUBTOTAL		\$10,435.20
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$6,956.80
TOTAL					\$117,396.00

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Railroad Street Connection					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0203-0001	CY	CLASS 1 EXCAVATION	955	\$25.00	\$23,875.00
0309-XXXX	SY	SUPERPAVE BASE COURSE, 8" DEPTH	1590	\$25.00	\$39,750.00
0350-0106	SY	SUBBASE 6" DEPTH (NO. 2A)	1590	\$14.00	\$22,260.00
0409-XXXX	SY	SUPERPAVE WEARING COURSE, 2" DEPTH	1590	\$25.00	\$39,750.00
0409-XXXX	SY	SUPERPAVE BINDER COURSE, 4" DEPTH	1590	\$15.00	\$23,850.00
0630-0001	LF	PLAIN CEMENT CONCRETE CURB	940	\$40.00	\$37,600.00
0960-0002	LF	4" YELLOW HOT THERMOPLASTIC PAVEMENT MARKINGS	725	\$1.25	\$906.25
0960-0021	LF	24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	45	\$10.00	\$450.00
	LS	MISCELLANEOUS - RIGHT OF WAY	1	\$30,000.00	\$30,000.00
		MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	1	\$10,000.00	\$10,000.00
SUBTOTAL					\$228,441.25
CONTINGENCIES				15% OF SUBTOTAL	\$34,266.19
ENGINEERING				12% OF SUBTOTAL	\$27,412.95
CONSTRUCTION INSPECTION				8% OF SUBTOTAL	\$18,275.30
TOTAL					\$308,395.69

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Wishart Court Improvements					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0203-0004	CY	CLASS 1B EXCAVATION	465	\$40.00	\$18,600.00
0309-XXXX	SY	SUPERPAVE BASE COURSE, 8" DEPTH	750	\$25.00	\$18,750.00
0350-0106	SY	SUBBASE 6" DEPTH (NO. 2A)	750	\$14.00	\$10,500.00
0409-XXXX	SY	SUPERPAVE WEARING COURSE, 2" DEPTH	750	\$25.00	\$18,750.00
0409-XXXX	SY	SUPERPAVE BINDER COURSE, 4" DEPTH	750	\$15.00	\$11,250.00
0630-0001	LF	PLAIN CEMENT CONCRETE CURB	450	\$40.00	\$18,000.00
0676-0001	SY	CEMENT CONCRETE SIDEWALK	30	\$100.00	\$3,000.00
0931-0001	SF	POST MOUNTED SIGNS, TYPE B	12	\$30.00	\$360.00
0960-0002	LF	4" YELLOW HOT THERMOPLASTIC PAVEMENT MARKINGS	900	\$1.25	\$1,125.00
0960-0021	LF	24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	95	\$10.00	\$950.00
		MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	1	\$10,000.00	\$10,000.00
	LS	SIGNALIZATION	1	\$120,000.00	\$120,000.00
SUBTOTAL					\$231,285.00
CONTINGENCIES			15% OF SUBTOTAL		\$34,692.75
ENGINEERING			12% OF SUBTOTAL		\$27,754.20
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$18,502.80
TOTAL					\$312,234.75

Truck Route Plan for the City of Sharon
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Budd Street Reconnection					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
		RAILROAD PREEMPTION	1	\$175,000.00	\$175,000.00
SUBTOTAL					\$175,000.00
CONTINGENCIES			15% OF SUBTOTAL		\$26,250.00
ENGINEERING			12% OF SUBTOTAL		\$21,000.00
CONSTRUCTION INSPECTION			8% OF SUBTOTAL		\$14,000.00
TOTAL					\$236,250.00

Truck Route Plan for the City of Sharon
Conceptual Cost Estimates

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Project Totals					
Pay Item	Unit	Description	Quantity	Unit Cost	Total Cost
0203-0001	CY	CLASS 1 EXCAVATION	955	\$25.00	\$23,875.00
0203-0004	CY	CLASS 1B EXCAVATION	730	\$40.00	\$29,200.00
0309-XXXX	SY	SUPERPAVE BASE COURSE, 8" DEPTH	2695	\$25.00	\$67,375.00
0350-0106	SY	SUBBASE 6" DEPTH (NO. 2A)	2695	\$14.00	\$37,730.00
0409-XXXX	SY	SUPERPAVE WEARING COURSE, 2" DEPTH	2695	\$25.00	\$67,375.00
0409-XXXX	SY	SUPERPAVE BINDER COURSE, 4" DEPTH	2695	\$15.00	\$40,425.00
0630-0001	LF	PLAIN CEMENT CONCRETE CURB	1670	\$40.00	\$66,800.00
0676-0001	SY	CEMENT CONCRETE SIDEWALK	110	\$100.00	\$11,000.00
0931-0001	SF	POST MOUNTED SIGNS, TYPE B	239	\$30.00	\$7,170.00
0935-0001	SF	POST MOUNTED SIGNS, TYPE F	333	\$17.50	\$5,827.50
0960-0001	LF	4" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	265	\$1.25	\$331.25
0960-0002	LF	4" YELLOW HOT THERMOPLASTIC PAVEMENT MARKINGS	2225	\$1.25	\$2,781.25
0960-0021	LF	24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	444	\$10.00	\$4,440.00
	LS	MISCELLANEOUS - RIGHT OF WAY	1	\$3,000.00	\$3,000.00
	LS	MISCELLANEOUS - RIGHT OF WAY	1	\$2,000.00	\$2,000.00
	LS	MISCELLANEOUS - RIGHT OF WAY	1	\$30,000.00	\$30,000.00
	LS	MISCELLANEOUS - DRAINAGE (PIPE, INLETS, ETC.)	1	\$30,000.00	\$30,000.00
	LS	MISCELLANEOUS - PROPERTY IMPROVEMENTS (CHAINLINK FENCE REPLACEMENT)	1	\$2,500.00	\$2,500.00
	LS	SIGNALIZATION	1	\$120,000.00	\$120,000.00
	LS	TRAFFIC SIGNAL OPTIMIZATION	2	\$3,050.00	\$6,100.00
-	LS	TRAFFIC SIGNAL DETECTION MODIFICATIONS	1	\$1,000.00	\$1,000.00
	LF	RAILROAD CROSSING EXT.	150	\$1,300.00	\$195,000.00
	LS	RAILROAD PREEMPTION	1	\$175,000.00	\$175,000.00
SUBTOTAL					\$928,930.00
CONTINGENCIES				15% OF SUBTOTAL	\$139,339.50
ENGINEERING				12% OF SUBTOTAL	\$111,471.60
CONSTRUCTION INSPECTION				8% OF SUBTOTAL	\$74,314.40
TOTAL					\$1,254,055.50