

SR-88/Pine Grove Corridor Improvement Project							23-Oct-19
Engineer's Estimate - 95% PS&E							
ITEM NO.	ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	ITEM PRICE	TOTAL	
1	70030	LEAD COMPLIANCE PLAN	LS	1	\$3,000.00	\$3,000	
2	80050	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	1	\$10,000.00	\$10,000	
3	100100	DEVELOP WATER SUPPLY	LS	1	\$20,000.00	\$20,000	
4	120090	CONSTRUCTION AREA SIGNS	LS	1	\$20,000.00	\$20,000	
5	120100	TRAFFIC CONTROL SYSTEM	LS	1	\$150,000.00	\$150,000	
6	120120	TYPE III BARRICADE	EA	12	\$100.00	\$1,200	
7	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SF	3,250	\$5.00	\$16,250	
8	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	57,400	\$1.00	\$57,400	
9	120165	CHANNELIZER (SURFACE MOUNTED)	EA	270	\$40.00	\$10,800	
10	128651	PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	4	\$8,000.00	\$32,000	
11	129000	TEMPORARY RAILING (TYPE K)	LF	10,980	\$21.00	\$230,580	
12	129100	TEMPORARY CRASH CUSHION MODULE	EA	175	\$250.00	\$43,750	
13	129100A	TEMPORARY ALTERNATIVE CRASH CUSHION	EA	15	\$4,000.00	\$60,000	
14	130100	JOB SITE MANAGEMENT	LS	1	\$50,000.00	\$50,000	
15	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1	\$10,000.00	\$10,000	
16	130310	RAIN EVENT ACTION PLAN	EA	105	\$500.00	\$52,500	
17	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	49	\$1,100.00	\$53,900	
18	130330	STORM WATER ANNUAL REPORT	EA	2	\$2,000.00	\$4,000	
19	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	30	\$300.00	\$9,000	
20	130640	TEMPORARY FIBER ROLL	LF	6,660	\$4.00	\$26,640	
21	130710	TEMPORARY CONSTRUCTION ENTRANCE	LS	2	\$2,000.00	\$4,000	
22	130730	STREET SWEEPING	LS	1	\$25,000.00	\$25,000	
23	130900	TEMPORARY CONCRETE WASHOUT	LS	1	\$5,000.00	\$5,000	
24	160110	TEMPORARY HIGH-VISIBILITY FENCE	LF	50	\$15.00	\$750	
25	170103	CLEARING AND GRUBBING (LS)	LS	1	\$75,000.00	\$75,000	
26	190101	ROADWAY EXCAVATION	CY	21,300	\$25.00	\$532,500	
27	190161	ROCK EXCAVATION	CY	4,600	\$50.00	\$230,000	
28	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	1,620	\$75.00	\$121,500	
29	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	960	\$150.00	\$144,000	
30	210300	HYDROMULCH	SOFT	107,000	\$0.05	\$5,350	
31	210430	HYDROSEED	SOFT	107,000	\$0.40	\$42,800	
32	210610	COMPOST	SOFT	107,000	\$0.50	\$53,500	
33	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SOFT	107,000	\$0.75	\$80,250	
34	260203	CLASS 2 AGGREGATE BASE (CY)	CY	6,880	\$45.00	\$309,600	
35	377501	SLURRY SEAL	TON	470	\$250.00	\$117,500	
36	390132	HOT MIX ASPHALT (TYPE A)	TON	12,620	\$90.00	\$1,135,800	
37	390402	RUBBERIZED HOT MIX ASPHALT-OPEN GRADED (OPEN GRADED FRICTION COURSE)	TON	1,710	\$110.00	\$188,100	
38	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	85	\$3.00	\$255	
39	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	3,760	\$3.00	\$11,280	
40	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	1,120	\$3.00	\$3,360	
41	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SOFT	19,200	\$3.00	\$57,600	
42	398200A	COLD PLANE ASPHALT CONCRETE PAVEMENT (0.20' MINIMUM)	SQYD	1,490	\$20.00	\$29,800	
43	398300	REMOVE BASE AND SURFACING	CY	450	\$25.00	\$11,250	
44	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	580	\$800.00	\$464,000	
45	510092	STRUCTURAL CONCRETE, HEADWALL	CY	35	\$2,000.00	\$70,000	
46	510094	STRUCTURAL CONCRETE, DRAINAGE INLET	CY	60	\$2,400.00	\$144,000	
47	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	38000	\$1.25	\$47,500	
48	568046A	REMOVE COMMERCIAL SIGN	EA	1	\$500.00	\$500	
49	568056A	RELOCATE COMMERCIAL SIGN	EA	10	\$1,500.00	\$15,000	
50		MODULAR BLOCK RETAINING WALL	SF	360	\$100.00	\$36,000	
51	665012	12" CORRUGATED STEEL PIPE (.138" THICK)	LF	28	\$140.00	\$3,920	
52	665017	18" CORRUGATED STEEL PIPE (.138" THICK)	LF	3,190	\$150.00	\$478,500	
53	665025	24" CORRUGATED STEEL PIPE (.138" THICK)	LF	610	\$165.00	\$100,650	
54	665033	30" CORRUGATED STEEL PIPE (.138" THICK)	LF	56	\$180.00	\$10,080	
55	665038	36" CORRUGATED STEEL PIPE (.138" THICK)	LF	11	\$190.00	\$2,090	
56	690110	12" CORRUGATED STEEL PIPE DOWNDRAIN	LF	74	\$140.00	\$10,360	
57	705011	18" STEEL FLARED END SECTION	EA	5	\$800.00	\$4,000	
58	705015	24" STEEL FLARED END SECTION	EA	4	\$900.00	\$3,600	
59	705023	36" STEEL FLARED END SECTION	EA	2	\$1,200.00	\$2,400	
60	707117	36" PRECAST CONCRETE PIPE INLET	LF	7	\$400.00	\$2,800	
61	710102	ABANDON CULVERT (LF)	LF	210	\$20.00	\$4,200	
62	710136	REMOVE PIPE (LF)	LF	590	\$35.00	\$20,650	
63	710150	REMOVE INLET	EA	12	\$1,300.00	\$15,600	
64	710152	REMOVE HEADWALL	EA	6	\$2,000.00	\$12,000	
65	710156	REMOVE MANHOLE	EA	1	\$1,500.00	\$1,500	
66	710167	REMOVE FLARED END SECTION (EA)	EA	1	\$400.00	\$400	
67	710196	ADJUST INLET	EA	2	\$500.00	\$1,000	
68	710214	ADJUST VALVE BOX FRAME AND COVER TO GRADE	EA	6	\$300.00	\$1,800	
69	710228	ADJUST SEWER MANHOLE	EA	1	\$500.00	\$500	
70	710228A	ADJUST SEWER VAULT	EA	11	\$1,500.00	\$16,500	
71	710228B	ADJUST SEWER CLEANOUT	EA	13	\$750.00	\$9,750	
72	710228C	RELOCATE FIRE HYDRANT	EA	1	\$5,000.00	\$5,000	
73	710228D	RELOCATE SEWER VAULT	EA	5	\$3,000.00	\$15,000	
74	717000	4" SEWER PIPE	LF	500	\$120.00	\$60,000	
75	717005	6" SEWER PIPE	LF	1,000	\$120.00	\$120,000	
76	717005A	6" WATERLINE	LF	525	\$120.00	\$63,000	
77	719200	SEWER MANHOLE	EA	1	\$5,000.00	\$5,000	
78	723070	ROCK SLOPE PROTECTION (150 lb, Class III, METHOD B) (CY)	CY	11	\$250.00	\$2,750	
79	723095	ROCK SLOPE PROTECTION (20 lb, Class I, METHOD B) (CY)	CY	74	\$150.00	\$11,100	
80	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	240	\$25.00	\$6,000	
81	730020	MINOR CONCRETE (CURB) (CY)	CY	120	\$1,800.00	\$216,000	
82	730045A	MINOR CONCRETE (RETAINING WALL GUTTER)	CY	9	\$700.00	\$6,300	
83	731510	MINOR CONCRETE (CURB, GUTTER, SIDEWALK AND DRIVEWAY)	CY	985	\$615.00	\$605,775	
84	731623	MINOR CONCRETE (CURB RAMP)	CY	27	\$1,000.00	\$27,000	
85	731710	REMOVE CONCRETE CURB (LF)	LF	860	\$5.00	\$4,300	
86	731760	REMOVE CONCRETE CURB AND SIDEWALK (SQYD)	SQYD	1,060	\$45.00	\$47,700	
87	750001	MISCELLANEOUS IRON AND STEEL	LB	11,761	\$2.50	\$29,403	
88	782120	RELOCATE MAILBOX	EA	1	\$300.00	\$300	
89	782120A	RELOCATE BOLLARD	EA	2	\$300.00	\$600	
90	800051	FENCE (TYPE WM, METAL POST)	LF	180	\$10.00	\$1,800	
91	800320	CHAIN LINK FENCE (TYPE CL-4)	LF	230	\$15.00	\$3,450	
92	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	70	\$15.00	\$1,050	
93	803020	REMOVE FENCE	LF	480	\$3.00	\$1,440	
94	810170	DELINEATOR (CLASS 1)	EA	80	\$45.00	\$3,600	
95	820130	OBJECT MARKER	EA	4	\$45.00	\$180	
96	810250	PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	EA	5	\$50.00	\$250	
97	820110	MILEPOST MARKER	EA	2	\$50.00	\$100	
98	820250	REMOVE ROADSIDE SIGN	EA	19	\$125.00	\$2,375	
99	820610	RELOCATE ROADSIDE SIGN	EA	92	\$300.00	\$27,600	
100	820750A	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063" - UNFRAMED) FOR RETROREFLECTIVE SHEETING (TYPE XI)	SOFT	206	\$20.00	\$4,120	
101	820760A	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080" UNFRAMED) FOR RETROREFLECTIVE SHEETING (TYPE XI)	SOFT	48	\$20.00	\$960	
102	820840	ROADSIDE SIGN - ONE POST	EA	54	\$350.00	\$18,900	
	820860	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	13	\$150.00	\$1,950	

Engineer's Estimate - 95% PS&E

ITEM NO.	ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	ITEM PRICE	TOTAL
103	832006	MIDWEST GUARDRAIL SYSTEM (STEEL POST)	LF	1,725	\$50.00	\$86,250
104	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	850	\$100.00	\$85,000
105	833088A	TUBULAR BICYCLE RAILING	LF	435	\$100.00	\$43,500
106	839521	CABLE RAILING	LF	305	\$50.00	\$15,250
107	839543	TRANSITION RAILING (TYPE WB-31)	EA	4	\$5,000.00	\$20,000
108	839578	END CAP (TYPE TC)	EA	4	\$250.00	\$1,000
109	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	1	\$900.00	\$900
110	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	3	\$5,000.00	\$15,000
111	839704	CONCRETE BARRIER (TYPE 60MD)	LF	230	\$150.00	\$34,500
112	839726	CONCRETE BARRIER (TYPE 836A)	LF	440	\$150.00	\$66,000
113	840501	THERMOPLASTIC TRAFFIC STRIPE	LF	67,200	\$1.00	\$67,200
114	840515	THERMOPLASTIC PAVEMENT MARKING	SF	4,830	\$5.00	\$24,150
115	846030	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	43,700	\$1.50	\$65,550
116	870009	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	1	\$5,000.00	\$5,000
117	870400	SIGNAL AND LIGHTING SYSTEM	LS	1	\$342,000.00	\$342,000
118	870701A	PEDESTRIAN HYBRID BEACON SIGNAL	LS	1	\$150,000.00	\$150,000
119	871812	INTERCONNECTION CONDUIT AND CABLE (LS)	LS	1	\$75,000.00	\$75,000
120	872130	MODIFYING EXISTING ELECTRICAL SYSTEM	LS	1	\$315,000.00	\$315,000
121	872140	REMOVING EXISTING ELECTRICAL SYSTEM	LS	1	\$5,000.00	\$5,000
122	999990	MOBILIZATION	LS	1	\$823,000.00	\$823,000
SUBTOTAL =						\$9,056,818
STATE FURNISHED MATERIALS						
123	066842A	MODEL 2070 CONTROLLER ASSEMBLY	LS	1	\$25,000.00	\$25,000
124	066844A	MODEL 2070 CONTROLLER UNIT	LS	1	\$7,500.00	\$7,500
STATE FURNISHED MATERIALS TOTAL =						\$32,500
CONTINGENCY (10%) =						\$909,000
CONSTRUCTION TOTAL =						\$9,998,300