



**Boone County Road 300 South
Corridor Study**

APPENDIX F

PROJECT ESTIMATES OF PROBABLE COST



Boone County Road 300 South Improvements

Tabulation of Soft Cost Fee Assumptions

Assuming the project is Federally Funded, the Project Added Capacity and Travel Lanes On Existing Alignment

	Bridge Costs										
	Bridge										
	Segment 1A Signal	Segment 1A RB	Segment 1	Segment 2	2A RB	2B Signal	Segment 3	Segment 4	Bridge 06-00192 Segment 2	Bridge 06-00401 Segment 2	Bridge 06-00189 Segment 3
Roadway Costs	\$ 3,587,272	\$ 3,751,169	\$ 8,086,914	\$ 10,073,357	\$ 5,012,907	\$ 4,798,569	\$ 7,431,756	\$ 9,766,774	\$ 2,040,000	\$ 2,280,000	\$ 3,480,000
Length	\$ 2,000	\$ 2,000	\$ 3,630	\$ 4,609	\$ 3,000	\$ 3,000	\$ 5,000	\$ 6,600	\$ 1,000	\$ 1,000	\$ 1,500
S-Lines	\$ 1,000	\$ 1,000			\$ 2,000	\$ 2,000	\$ 1,000	\$ 2,000			
Total Survey Length	\$ 3,000	\$ 3,000	\$ 3,630	\$ 4,609	\$ 5,000	\$ 5,000	\$ 6,000	\$ 8,600			
Survey Cost	\$ 42,000	\$ 42,000	\$ 50,820	\$ 64,526	\$ 70,000	\$ 70,000	\$ 84,000	\$ 120,400	\$ 14,000	\$ 14,000	\$ 21,000
Design	\$ 234,500	\$ 243,800	\$ 494,100	\$ 606,400	\$ 321,800	\$ 307,700	\$ 459,300	\$ 589,900	\$ 184,600	\$ 205,900	\$ 299,300
Parcels (Perm and Temp)	\$ 10	\$ 10	\$ 12	\$ 18	\$ 10	\$ 10	\$ 20	\$ 32	\$ 4	\$ 4	\$ 5
Acres	\$ 8	\$ 9	\$ 10	\$ 10	\$ 12	\$ 12	\$ 13	\$ 9	\$ 2	\$ 1	\$ 1
ROW Cost	\$ 1,200,000	\$ 1,251,000	\$ 3,000,000	\$ 4,800,000	\$ 1,800,000	\$ 1,500,000	\$ 4,800,000	\$ 1,800,000	\$ 180,000	\$ 100,000	\$ 125,000
R/W Acquisition Services	\$ 100,000	\$ 100,000	\$ 120,000	\$ 180,000	\$ 100,000	\$ 100,000	\$ 200,000	\$ 320,000	\$ 40,000	\$ 40,000	\$ 50,000
R/W Engineering	\$ 43,300	\$ 43,300	\$ 51,960	\$ 77,940	\$ 43,300	\$ 43,300	\$ 86,600	\$ 138,560	\$ 17,320	\$ 17,320	\$ 21,650
Total ROW Cost	\$ 1,343,300	\$ 1,394,300	\$ 3,171,960	\$ 5,057,940	\$ 1,943,300	\$ 1,643,300	\$ 5,086,600	\$ 2,258,560	\$ 237,320	\$ 157,320	\$ 196,650
CI	\$ 358,700	\$ 375,100	\$ 808,700	\$ 1,007,300	\$ 501,300	\$ 479,900	\$ 743,200	\$ 976,700	\$ 204,000	\$ 228,000	\$ 348,000
Geotechnical	\$ 21,000	\$ 21,000	\$ 25,410	\$ 32,263	\$ 35,000	\$ 35,000	\$ 42,000	\$ 60,200	\$ 10,000	\$ 10,000	\$ 10,000

Environmental Assement (EA Docment) \$ 297,000 (For entire project if Federal Funding is anticipated.)

Permits

IDNR CIF	3 Bridges 5 Culverts	\$ 120,000	Extensive Floodplain at bridges and culverts, and assumes contingency for phased construction.)
IDEM 401 WQC	8 total	\$ 32,000	
USACOE 404 Permit	8 Total	\$ 32,000	
Rule 5 (By Phase)		\$ 84,000	Total for 3 bridges plus 6 Road Phases

Soft Cost Assumptions:

Route Survey	\$ 14.00 per ft	Utility Coordination (Assumed Phased Construction)	\$ 100,000
Relocations	2	Construction Inspection (Match original)	10%
Parcels	110 to 115	Geotechnical	\$ 276,137 (Check)

Environmental Assement (EA Docment)	\$ 75,000
HPR - 800.11	\$ 10,000 CE4
Archeological	\$ 65,000
Archeological Supplement	\$ 39,000
Public Hearing	\$ 25,000
Noise Analysis	\$ 35,000
Asbestos Inpsction	\$ 8,000
Waters of the US Report	\$ 40,000
	\$ 297,000

Permits

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USACOE 404 Permit	8 Total	\$ 32,000	
Rule 5 (By Phase)		\$ 84,000	Total for 3 bridges plus 6 Road Phases

PRELIMINARY COST ESTIMATE - CR 300 S
SEGMENT 1A ROUNDABOUT @ CR 875 E



Item No.	Item Description	Unit	Quantity	Engineer's Estimate	
				Unit Price	Total
	Construction Engineering	LS	1	\$ 70,000.00	\$70,000.00
	Mobilization and Demobilization	LS	1	\$ 139,000.00	\$139,000.00
	Clearing Right of Way	LS	1	\$ 84,000.00	\$84,000.00
	Maintaining Traffic	LS	1	\$ 195,000.00	\$195,000.00
	Excavation, Common	CYS	14148	\$ 40.00	\$565,920.00
	Borrow	CYS	23995	\$ 12.25	\$293,938.75
	Sodding, Nursery	SYS	2894	\$ 5.53	\$16,003.82
	Seed Mixture, U	LBS	515	\$ 3.98	\$2,050.18
	Fertilizer	TON	1	\$ 704.47	\$725.77
	Mulching Material	TON	5	\$ 451.26	\$2,324.53
	Subgrade Treatment, Type IC	SYS	12983	\$ 20.91	\$271,474.53
	Subgrade Treatment, Type II	SYS	521	\$ 19.00	\$9,899.00
	Subgrade Treatment, Type III	SYS	3667	\$ 2.00	\$7,334.00
	Compacted Aggregate, No. 53	TON	1064	\$ 52.00	\$55,328.00
	Structure Backfill, Type 1	CYS	995	\$ 42.95	\$42,735.25
	QC/QA-HMA, 3, 70, Surface, 9.5 mm	TON	837	\$ 85.00	\$71,145.00
	QC/QA-HMA, 3, 70, Intermediate, 19.0 mm	TON	1395	\$ 76.00	\$106,020.00
	QC/QA-HMA, 3, 64, Base, 25.0 mm	TON	3932	\$ 70.00	\$275,240.00
	QC/QA-HMA, 3, 76, Intermediate, OG 19.0 mm	TON	1708	\$ 70.00	\$119,560.00
	HMA for Sidewalk	TON	808	\$ 87.00	\$70,296.00
	Curb, Concrete	LFT	1609	\$ 25.00	\$40,225.00
	Curb and Gutter, Concrete	LFT	4075	\$ 27.00	\$110,025.00
	Concrete Roll Curb & Gutter	LFT	321	\$ 26.00	\$8,346.00
	PCCP, 10 IN.	SYS	377	\$ 115.00	\$43,355.00
	PCCP for Approaches, 6 IN	SYS	516	\$ 77.50	\$39,990.00
	Curb Ramp	SYS	197	\$ 190.78	\$37,583.66
	Underdrains (Pipes, Aggregate, & Geotextiles)	LFT	4315	\$ 16.00	\$69,040.00
	Pipe, Type 2, Circular, 12 IN.	LFT	1552	\$ 33.43	\$51,883.36
	Pipe, Type 2, Circular, 15 IN.	LFT	422	\$ 40.49	\$17,086.78
	Pipe, Type 2, Circular, 18 IN.	LFT	464	\$ 55.00	\$25,520.00
	Pipe, Type 2, Circular, 24 IN.	LFT	162	\$ 60.00	\$9,720.00
	Pipe, Type 2, Circular, 30 IN.	LFT	25	\$ 80.00	\$2,000.00
	Pipe End Section, 24 IN.	EACH	1	\$ 1,533.23	\$1,533.23
	Pipe End Section, 30 IN.	EACH	1	\$ 1,733.17	\$1,733.17
	Video Inspection for Pipe	LFT	2625	\$ 2.00	\$5,250.00
	Video Inspection for Underdrains	LFT	4315	\$ 1.07	\$4,617.05
	Conduit, HDPE, 4 IN. Schedule 40	LFT	320	\$ 15.00	\$4,800.00
	Box Culvert	LFT	40	\$ 2,500.00	\$100,000.00
	Manhole, C4	EACH	14	\$ 3,000.00	\$42,000.00
	Manhole, J4	EACH	2	\$ 4,500.00	\$9,000.00
	Inlet	EACH	34	\$ 3,100.00	\$105,400.00
	Erosion Control	LS	1	\$ 52,783.00	\$52,783.00
	Signing	LS	1	\$ 12,000.00	\$12,000.00
	Lighting	LS	1	\$ 48,000.00	\$48,000.00
	Pavement Markings	LS	1	\$ 22,000.00	\$22,000.00
	SUBTOTAL MAJOR ROADWAY ITEMS				\$3,261,886.08
	15% CONTINGENCY				\$489,282.91
	CONSTRUCTION TOTAL 2020 DOLLARS				\$3,751,169

PRELIMINARY COST ESTIMATE - CR 300 S
SEGMENT 1A - SIGNAL AT CR 875



Item No.	Item Description	Unit	Quantity	Engineer's Estimate	
				Unit Price	Total
	Construction Engineering	LS	1	\$ 68,000.00	\$68,000.00
	Mobilization and Demobilization	LS	1	\$ 136,000.00	\$136,000.00
	Clearing Right of Way	LS	1	\$ 82,000.00	\$82,000.00
	Maintaining Traffic	LS	1	\$ 190,000.00	\$190,000.00
	Excavation, Common	CYS	13764	\$ 40.00	\$550,560.00
	Borrow	CYS	24564	\$ 12.25	\$300,909.00
	Sodding, Nursery	SYS	1300	\$ 5.53	\$7,189.00
	Seed Mixture, U	LBS	800	\$ 3.98	\$3,184.00
	Fertilizer	TON	2	\$ 704.47	\$1,127.15
	Mulching Material	TON	8	\$ 451.26	\$3,610.08
	Subgrade Treatment, Type IC	SYS	11258	\$ 20.91	\$235,404.78
	Subgrade Treatment, Type II	SYS	503	\$ 19.00	\$9,557.00
	Subgrade Treatment, Type III	SYS	1643	\$ 2.00	\$3,286.00
	Compacted Aggregate, No. 53	TON	411	\$ 52.00	\$21,372.00
	Structure Backfill, Type 1	CYS	200	\$ 42.95	\$8,590.00
	QC/QA-HMA, 3, 70, Surface, 9.5 mm	TON	858	\$ 85.00	\$72,930.00
	QC/QA-HMA, 3, 70, Intermediate, 19.0 mm	TON	1430	\$ 76.00	\$108,680.00
	QC/QA-HMA, 3, 64, Base, 25.0 mm	TON	4047	\$ 70.00	\$283,290.00
	QC/QA-HMA, 3, 76, Intermediate, OG 19.0 mm	TON	1756	\$ 70.00	\$122,920.00
	HMA for Sidewalk	TON	368	\$ 87.00	\$32,016.00
	Curb, Concrete	LFT	2301	\$ 25.00	\$57,525.00
	Curb and Gutter, Concrete	LFT	4123	\$ 27.00	\$111,321.00
	Center Curb, D, Concrete	SYS	89	\$ 210.00	\$18,690.00
	PCCP for Approaches, 6 IN	SYS	498	\$ 77.50	\$38,595.00
	Curb Ramp	SYS	45	\$ 190.78	\$8,585.10
	Underdrains (Pipes, Aggregate, & Geotextiles)	LFT	4123	\$ 16.00	\$65,968.00
	Pipe, Type 2, Circular, 12 IN.	LFT	1552	\$ 33.43	\$51,883.36
	Pipe, Type 2, Circular, 15 IN.	LFT	422	\$ 40.49	\$17,086.78
	Pipe, Type 2, Circular, 18 IN.	LFT	464	\$ 55.00	\$25,520.00
	Pipe, Type 2, Circular, 24 IN.	LFT	162	\$ 60.00	\$9,720.00
	Pipe, Type 2, Circular, 30 IN.	LFT	25	\$ 80.00	\$2,000.00
	Pipe End Section, 24 IN.	EACH	1	\$ 1,533.23	\$1,533.23
	Pipe End Section, 30 IN.	EACH	1	\$ 1,733.17	\$1,733.17
	Video Inspection for Pipe	LFT	2625	\$ 2.00	\$5,250.00
	Video Inspection for Underdrains	LFT	4123	\$ 1.07	\$4,411.61
	Box Culvert	LFT	40	\$ 2,500.00	\$100,000.00
	Manhole, C4	EACH	14	\$ 3,000.00	\$42,000.00
	Manhole, J4	EACH	2	\$ 4,500.00	\$9,000.00
	Inlet	EACH	34	\$ 3,100.00	\$105,400.00
	Erosion Control	LS	1	\$ 48,820.00	\$48,820.00
	Signing	LS	1	\$ 1,500.00	\$1,500.00
	Signal	LS	1	\$ 175,000.00	\$175,000.00
	Lighting	LS	1	\$ 32,000.00	\$32,000.00
	Pavement Markings	LS	1	\$ 13,200.00	\$13,200.00
	SUBTOTAL MAJOR ROADWAY ITEMS				\$3,119,367.26
	15% CONTINGENCY				\$467,905.09
	CONSTRUCTION TOTAL 2020 DOLLARS				\$3,587,272

PRELIMINARY COST ESTIMATE - CR 300 S
SEGMENT 1 - CR 800 E TO CR 875 E



Item No.	Item Description	Unit	Quantity	Engineer's Estimate	
				Unit Price	Total
	Construction Engineering	LS	1	\$ 149,700.00	\$149,700.00
	Mobilization and Demobilization	LS	1	\$ 299,300.00	\$299,300.00
	Clearing Right of Way	LS	1	\$ 179,600.00	\$179,600.00
	Maintaining Traffic	LS	1	\$ 419,000.00	\$419,000.00
	Houses and Buildings, Remove	EACH	1	\$ 40,000.00	\$40,000.00
	Excavation, Common	CYS	16302	\$ 40.00	\$652,080.00
	Borrow	CYS	16960	\$ 12.25	\$207,760.00
	Sodding, Nursery	SYS	7495	\$ 5.53	\$41,447.35
	Subgrade Treatment, Type IC	SYS	52496	\$ 20.91	\$1,097,700.65
	Subgrade Treatment Type II	SYS	1268	\$ 19.00	\$24,092.00
	Subgrade Treatment, Type III	SYS	8825	\$ 2.00	\$17,649.78
	Compacted Aggregate, No. 53	TON	9791	\$ 52.00	\$509,132.00
	Structure Backfill, Type 1	CYS	1600	\$ 42.95	\$68,720.00
	QC/QA-HMA, 3, 70, Surface, 9.5 mm	TON	1630	\$ 85.00	\$138,550.00
	QC/QA-HMA, 3, 70, Intermediate, 19.0 mm	TON	2717	\$ 76.00	\$206,492.00
	QC/QA-HMA, 3, 64, Base, 25.0 mm	TON	7794	\$ 70.00	\$545,580.00
	QC/QA-HMA, 3, 76, Intermediate, OG 19.0 mm	TON	3454	\$ 70.00	\$241,780.00
	HMA for Sidewalk	TON	1920	\$ 87.00	\$167,040.00
	Curb, Concrete	LFT	6130	\$ 25.00	\$153,250.00
	Curb and Gutter, Concrete	LFT	6050	\$ 27.00	\$163,350.00
	PCCP for Approaches, 6 IN	SYS	1268	\$ 77.50	\$98,270.00
	Underdrains (Pipes, Aggregate, & Geotextiles)	LFT	6050	\$ 16.00	\$96,800.00
	Modular Block Wall	SFT	1058	\$ 20.00	\$21,150.00
	Modular Block Wall Erection	SFT	1058	\$ 30.00	\$31,725.00
	Hand Rail, Pedestrian	LFT	200	\$ 250.00	\$50,000.00
	Guardrail, W-Beam, 1 FT 6.75 IN Spacing	LFT	200	\$ 72.00	\$14,400.00
	Pipe, Type 2, Circular, 12 IN.	LFT	2251	\$ 33.43	\$75,250.93
	Pipe, Type 2, Circular, 15 IN.	LFT	449	\$ 40.49	\$18,180.01
	Pipe, Type 2, Circular, 18 IN.	LFT	303	\$ 55.00	\$16,665.00
	Pipe, Type 2, Circular, 24 IN.	LFT	878	\$ 60.00	\$52,680.00
	Pipe, Type 2, Circular, 30 IN.	LFT	100	\$ 80.00	\$8,000.00
	Pipe, Type 2, Circular, 36 IN.	LFT	26	\$ 90.00	\$2,340.00
	Pipe End Section, 24 IN.	EACH	1	\$ 1,533.23	\$1,533.23
	Pipe End Section, 30 IN.	EACH	1	\$ 1,733.17	\$1,733.17
	Video Inspection for Pipe	LFT	3981	\$ 2.00	\$7,962.00
	Video Inspection for Underdrains	LFT	6050	\$ 1.07	\$6,473.50
	Manhole, C4	EACH	18	\$ 3,000.00	\$54,000.00
	Manhole, J4	EACH	2	\$ 4,500.00	\$9,000.00
	Inlet	EACH	52	\$ 3,100.00	\$161,200.00
	Box Culvert Extension	LFT	240	\$ 2,500.00	\$600,000.00
	Erosion Control	LS	1	\$ 100,040.00	\$100,040.00
	Signing	LS	1	\$ 27,802.50	\$27,802.50
	Lighting	LS	1	\$ 217,600.00	\$217,600.00
	Pavement Markings	LS	1	\$ 37,070.00	\$37,070.00
	SUBTOTAL MAJOR ROADWAY ITEMS				\$7,032,099.12
	15% CONTINGENCY				\$1,054,814.87
	CONSTRUCTION TOTAL 2020 DOLLARS				\$8,086,914

PRELIMINARY COST ESTIMATE - CR 300 S
SEGMENT 2 - CR 875 E TO PLEASANT VIEW ROAD



Item No.	Item Description	Unit	Quantity	Engineer's Estimate	
				Unit Price	Total
	Construction Engineering	LS	1	\$ 187,000.00	\$187,000.00
	Mobilization and Demobilization	LS	1	\$ 373,000.00	\$373,000.00
	Clearing Right of Way	LS	1	\$ 224,000.00	\$224,000.00
	Maintaining Traffic	LS	1	\$ 522,000.00	\$522,000.00
	Excavation, Common	CYS	36643	\$ 40.00	\$1,465,720.00
	Borrow	CYS	24712	\$ 12.25	\$302,722.00
	Sodding, Nursery	SYS	9860	\$ 5.53	\$54,525.80
	Seed Mixture, U	LBS	915	\$ 3.98	\$3,640.26
	Fertilizer	TON	2	\$ 704.47	\$1,288.67
	Mulching Material	TON	9	\$ 451.26	\$4,127.39
	Subgrade Treatment, Type IC	SYS	31982	\$ 20.91	\$668,743.62
	Subgrade Treatment, Type II	SYS	2117	\$ 19.00	\$40,223.00
	Subgrade Treatment, Type III	SYS	11567	\$ 2.00	\$23,134.00
	Compacted Aggregate, No. 53	TON	2889	\$ 52.00	\$150,228.00
	Structure Backfill, Type 1	CYS	2159	\$ 42.95	\$92,729.05
	QC/QA-HMA, 3, 70, Surface, 9.5 mm	TON	2139	\$ 85.00	\$181,815.00
	QC/QA-HMA, 3, 70, Intermediate, 19.0 mm	TON	3565	\$ 76.00	\$270,940.00
	QC/QA-HMA, 3, 64, Base, 25.0 mm	TON	10120	\$ 70.00	\$708,400.00
	QC/QA-HMA, 3, 76, Intermediate, OG 19.0 mm	TON	4187	\$ 70.00	\$293,090.00
	HMA for Sidewalk	TON	2546	\$ 87.00	\$221,502.00
	Curb, Concrete	LFT	7518	\$ 25.00	\$187,950.00
	Curb and Gutter, Concrete	LFT	8139	\$ 27.00	\$219,753.00
	Center Curb, D, Concrete	SYS	45	\$ 210.00	\$9,450.00
	PCCP for Approaches, 6 IN	SYS	2096	\$ 77.50	\$162,440.00
	Curb Ramp	SYS	19	\$ 190.78	\$3,624.82
	Underdrains (Pipes, Aggregate, & Geotextiles)	LFT	8805	\$ 16.00	\$140,880.00
	Modular Block Wall	SFT	10639	\$ 20.00	\$212,780.00
	Modular Block Wall Erection	SFT	10639	\$ 30.00	\$319,170.00
	Hand Rail, Pedestrian	LFT	823	\$ 250.00	\$205,750.00
	Guardrail, W-Beam, 1 FT 6.75 IN Spacing	LFT	823	\$ 72.00	\$59,256.00
	Pipe, Type 2, Circular, 12 IN.	LFT	2168	\$ 33.43	\$72,476.24
	Pipe, Type 2, Circular, 15 IN.	LFT	72	\$ 40.49	\$2,915.28
	Pipe, Type 2, Circular, 18 IN.	LFT	460	\$ 55.00	\$25,300.00
	Pipe, Type 2, Circular, 24 IN.	LFT	1398	\$ 60.00	\$83,880.00
	Pipe, Type 2, Circular, 30 IN.	LFT	750	\$ 80.00	\$60,000.00
	Pipe, Type 2, Circular, 36 IN.	LFT	20	\$ 90.00	\$1,800.00
	Pipe End Section, 36 IN.	EACH	1	\$ 1,364.00	\$1,364.00
	Video Inspection for Pipe	LFT	4868	\$ 2.00	\$9,736.00
	Video Inspection for Underdrains	LFT	8805	\$ 1.07	\$9,421.35
	Box Culvert	LFT	90	\$ 2,500.00	\$225,000.00
	Manhole, C4	EACH	15	\$ 3,000.00	\$45,000.00
	Manhole, J4	EACH	2	\$ 4,500.00	\$9,000.00
	Manhole, K4	EACH	1	\$ 5,170.00	\$5,170.00
	Inlet	EACH	48	\$ 3,100.00	\$148,800.00
	Erosion Control	LS	1	\$ 134,075.00	\$134,075.00
	Signing	LS	1	\$ 33,016.00	\$33,016.00
	Lighting	LS	1	\$ 576,000.00	\$576,000.00
	Pavement Markings	LS	1	\$ 6,604.00	\$6,604.00
	SUBTOTAL MAJOR ROADWAY ITEMS				\$8,759,440.48
	15% CONTINGENCY				\$1,313,916.07
	CONSTRUCTION TOTAL 2020 DOLLARS				\$10,073,357



CR 300 S Corridor Study
 Boone County, IN
 Preliminary Cost Estimate
 Pleasant View Rd. E. CR 300 S. Roundabout
 Segment 2A Roundabout Option

Calc: AMP Date: 01/07/2020
 Check: JMB Date: 02/13/2020
 SHEET NO. 1 OF 1

PAY ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL
105-06845	CONSTRUCTION ENGINEERING	1	LS	\$ 81,500.00	\$ 81,500.00
110-01001	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 197,900.00	\$ 197,900.00
201-52370	CLEARING RIGHT OF WAY	1	LS	\$ 81,500.00	\$ 81,500.00
202-02240	PAVEMENT REMOVAL	10521	SYS	\$ 9.00	\$ 94,689.00
203-02000	EXCAVATION, COMMON	17694	CYS	\$ 18.00	\$ 318,492.00
203-02070	BORROW	10681	CYS	\$ 12.25	\$ 130,842.25
205-12108	STORM WATER MANAGEMENT BUDGET	110000	DOL	\$ 1.00	\$ 110,000.00
207-08264	SUBGRADE TREATMENT, TYPE II	2491	SYS	\$ 15.00	\$ 37,365.00
207-08266	SUBGRADE TREATMENT, TYPE III	5723	SYS	\$ 2.70	\$ 15,452.10
207-09934	SUBGRADE TREATMENT, TYPE IB	29570	SYS	\$ 7.82	\$ 231,237.40
211-09266	STRUCTURE BACKFILL, TYPE 3	226	CYS	\$ 30.00	\$ 6,780.00
301-12234	COMPACTED AGGREGATE NO. 53	4768	CYS	\$ 44.58	\$ 212,557.44
401-07328	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm	1888	TON	\$ 85.00	\$ 160,480.00
401-07398	QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm	3146	TON	\$ 80.00	\$ 251,680.00
401-07424	QC/QA-HMA, 3, 64, BASE, 19.0 mm	9238	TON	\$ 75.00	\$ 692,850.00
401-11787	QC/QA-HMA, 3, 76, INTERMEDIATE, OG 19.0 mm	2999	TON	\$ 70.00	\$ 209,930.00
502-11564	PCCP, 7 IN.	286	SYS	\$ 90.00	\$ 25,740.00
604-05528	HMA FOR SIDEWALK	944	TON	\$ 92.07	\$ 86,914.08
604-08086	CURB RAMP, CONCRETE	192	SYS	\$ 190.78	\$ 36,629.76
604-12083	DETECTABLE WARNING SURFACES	48	SYS	\$ 215.12	\$ 10,325.76
605-06120	CURB, CONCRETE	3470	LFT	\$ 18.72	\$ 64,958.40
605-06140	CURB AND GUTTER, CONCRETE	5276	LFT	\$ 27.00	\$ 142,452.00
605-06255	CENTER CURB, D CONCRETE	1738	SYS	\$ 210.00	\$ 364,980.00
610-07487	HMA FOR APPROACHES, TYPE B	80	TON	\$ 165.00	\$ 13,200.00
610-08446	PCCP FOR APPROACHES, 6 IN.	2202	SYS	\$ 67.01	\$ 147,556.02
621-01004	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	2	EACH	\$ 482.58	\$ 965.16
621-06545	FERTILIZER	1	TON	\$ 704.47	\$ 704.47
621-06553	SEED MIXTURE R	737	LBS	\$ 3.98	\$ 2,933.26
621-06565	MULCHING MATERIAL	7	TON	\$ 451.26	\$ 3,158.82
621-06567	WATER	4	KGAL	\$ 3.00	\$ 12.00
621-06575	SODDING, NURSERY	933	SYS	\$ 5.53	\$ 5,159.49
623-99999	MOWING, MEDIANS	4	EACH	\$ 500.00	\$ 2,000.00
715-05048	PIPE, TYPE 4, CIRCULAR, 6 IN.	8608	LFT	\$ 5.83	\$ 50,184.64
715-05152	PIPE, TYPE 2, CIRCULAR, 18 IN.	300	LFT	\$ 87.50	\$ 26,250.00
715-05154	PIPE, TYPE 2, CIRCULAR, 24 IN.	300	LFT	\$ 126.00	\$ 37,800.00
718-06532	VIDEO INSPECTION FOR UNDERDRAINS	3000	LFT	\$ 1.07	\$ 3,210.00
718-12305	GEOTEXTILES FOR UNDERDRAIN, TYPE 1A	6956	SYS	\$ 1.00	\$ 6,956.00
718-52610	AGGREGATE FOR UNDERDRAINS	776	CYS	\$ 57.18	\$ 44,371.68
720-45410	MANHOLE, C4	2	EACH	\$ 3,966.67	\$ 7,933.34
720-98174	INLET, B15	8	EACH	\$ 3,800.00	\$ 30,400.00
731-93947	LEVELING PAD, CONCRETE	536	LFT	\$ 60.00	\$ 32,160.00
732-11810	MODULAR BLOCK WALL	2184	SFT	\$ 20.00	\$ 43,680.00
732-11811	MODULAR BLOCK WALL ERECTION	2184	SFT	\$ 30.00	\$ 65,520.00
801-06775	MAINTAINING TRAFFIC	1	LS	\$ 197,900.00	\$ 197,900.00
802-99999	SIGNING	1	LS	\$ 50,000.00	\$ 50,000.00
807-04744	LIGHTING	1	LS	\$ 100,000.00	\$ 100,000.00
				Total	\$ 4,437,310.07

15% Contingency \$ **665,596.51**
 \$ **5,102,906.58**



PAY ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL
105-06845	CONSTRUCTION ENGINEERING	1	LS	\$ 76,600.00	\$ 76,600.00
110-01001	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 186,100.00	\$ 186,100.00
201-52370	CLEARING RIGHT OF WAY	1	LS	\$ 76,600.00	\$ 76,600.00
202-02240	PAVEMENT REMOVAL	9088	SYS	\$ 9.00	\$ 81,792.00
203-02000	EXCAVATION, COMMON	16009	CYS	\$ 18.00	\$ 288,162.00
203-02070	BORROW	9663	CYS	\$ 12.25	\$ 118,371.75
205-12108	STORM WATER MANAGEMENT BUDGET	100000	DOL	\$ 1.00	\$ 100,000.00
207-08264	SUBGRADE TREATMENT, TYPE II	1846	SYS	\$ 15.00	\$ 27,690.00
207-08266	SUBGRADE TREATMENT, TYPE III	7822	SYS	\$ 2.70	\$ 21,119.40
207-09934	SUBGRADE TREATMENT, TYPE IB	28403	SYS	\$ 7.82	\$ 222,111.46
211-09266	STRUCTURE BACKFILL, TYPE 3	219	CYS	\$ 30.00	\$ 6,570.00
301-12234	COMPACTED AGGREGATE NO. 53	5074	CYS	\$ 44.58	\$ 226,198.92
401-07328	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm	1749	TON	\$ 85.00	\$ 148,665.00
401-07398	QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm	2916	TON	\$ 80.00	\$ 233,280.00
401-07424	QC/QA-HMA, 3, 64, BASE, 19.0 mm	8708	TON	\$ 75.00	\$ 653,100.00
401-11787	QC/QA-HMA, 3, 76, INTERMEDIATE, OG 19.0 mm	2827	TON	\$ 70.00	\$ 197,890.00
604-05528	HMA FOR SIDEWALK	1291	TON	\$ 92.07	\$ 118,862.37
604-08086	CURB RAMP, CONCRETE	48	SYS	\$ 190.78	\$ 9,157.44
604-12083	DETECTABLE WARNING SURFACES	12	SYS	\$ 215.12	\$ 2,581.44
605-06120	CURB, CONCRETE	3991	LFT	\$ 18.72	\$ 74,711.52
605-06140	CURB AND GUTTER, CONCRETE	5664	LFT	\$ 27.00	\$ 152,928.00
605-06255	CENTER CURB, D CONCRETE	332	SYS	\$ 210.00	\$ 69,720.00
610-07487	HMA FOR APPROACHES, TYPE B	76	TON	\$ 165.00	\$ 12,540.00
610-08446	PCCP FOR APPROACHES, 6 IN.	1572	SYS	\$ 67.01	\$ 105,339.72
621-01004	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	2	EACH	\$ 482.58	\$ 965.16
621-06545	FERTILIZER	1	TON	\$ 704.47	\$ 704.47
621-06553	SEED MIXTURE R	632	LBS	\$ 3.98	\$ 2,515.36
621-06565	MULCHING MATERIAL	6	TON	\$ 451.26	\$ 2,707.56
621-06567	WATER	22	KGAL	\$ 3.00	\$ 66.00
621-06575	SODDING, NURSERY	5571	SYS	\$ 5.53	\$ 30,807.63
623-99999	MOWING, MEDIANS	8	EACH	\$ 500.00	\$ 4,000.00
715-05048	PIPE, TYPE 4, CIRCULAR, 6 IN.	7788	LFT	\$ 5.83	\$ 45,404.04
715-05152	PIPE, TYPE 2, CIRCULAR, 18 IN.	300	LFT	\$ 87.50	\$ 26,250.00
715-05154	PIPE, TYPE 2, CIRCULAR, 24 IN.	300	LFT	\$ 126.00	\$ 37,800.00
718-06532	VIDEO INSPECTION FOR UNDERDRAINS	3000	LFT	\$ 1.07	\$ 3,210.00
718-12305	GEOTEXTILES FOR UNDERDRAIN, TYPE 1A	6294	SYS	\$ 1.00	\$ 6,294.00
718-52610	AGGREGATE FOR UNDERDRAINS	702	CYS	\$ 57.18	\$ 40,140.36
720-45410	MANHOLE, C4	2	EACH	\$ 3,966.67	\$ 7,933.34
720-98174	INLET, B15	8	EACH	\$ 3,800.00	\$ 30,400.00
731-93947	LEVELING PAD, CONCRETE	528	LFT	\$ 60.00	\$ 31,680.00
732-11810	MODULAR BLOCK WALL	2112	SFT	\$ 20.00	\$ 42,240.00
732-11811	MODULAR BLOCK WALL ERECTION	2112	SFT	\$ 30.00	\$ 63,360.00
801-06775	MAINTAINING TRAFFIC	1	LS	\$ 186,100.00	\$ 186,100.00
802-99998	TRAFFIC SIGNAL	1	LS	\$ 250,000.00	\$ 250,000.00
802-99999	SIGNING	1	LS	\$ 50,000.00	\$ 50,000.00
807-04744	LIGHTING	1	LS	\$ 100,000.00	\$ 100,000.00
				Total	\$ 4,172,668.94

15% Contingency \$ **625,900.34**
\$ **4,798,569.28**

PAY ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL
105-06845	CONSTRUCTION ENGINEERING	1	LS	\$ 269,300.00	\$ 269,300.00
110-01001	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 269,300.00	\$ 269,300.00
201-52370	CLEARING RIGHT OF WAY	1	LS	\$ 269,300.00	\$ 269,300.00
202-02240	PAVEMENT REMOVAL	12354	SYS	\$ 9.00	\$ 111,186.00
203-02000	EXCAVATION, COMMON	20777	CYS	\$ 18.00	\$ 373,986.00
203-02070	BORROW	12541	CYS	\$ 12.25	\$ 153,627.25
205-12108	STORM WATER MANAGEMENT BUDGET	125000	DOL	\$ 1.00	\$ 125,000.00
207-08264	SUBGRADE TREATMENT, TYPE II	842	SYS	\$ 15.00	\$ 12,630.00
207-08266	SUBGRADE TREATMENT, TYPE III	12295	SYS	\$ 2.70	\$ 33,196.50
207-09934	SUBGRADE TREATMENT, TYPE IB	41082	SYS	\$ 7.82	\$ 321,261.24
301-12234	COMPACTED AGGREGATE NO. 53	7513	CYS	\$ 30.00	\$ 225,390.00
401-07328	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm	2537	TON	\$ 85.00	\$ 215,645.00
401-07398	QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm	4228	TON	\$ 80.00	\$ 338,240.00
401-07424	QC/QA-HMA, 3, 64, BASE, 19.0 mm	12620	TON	\$ 75.00	\$ 946,500.00
401-11787	QC/QA-HMA, 3, 76, INTERMEDIATE, OG 19.0 mm	4097	TON	\$ 70.00	\$ 286,790.00
601-12281	GUARDRAIL MGS W-BEAM, 6 FT 3 IN SPACING	200	LFT	\$ 20.18	\$ 4,036.00
601-94689	GUARDRAIL, END TREATMENT, OS	4	EACH	\$ 2,975.31	\$ 11,901.24
604-05528	HMA FOR SIDEWALK	2705	TON	\$ 92.07	\$ 249,049.35
604-08086	CURB RAMP, CONCRETE	24	SYS	\$ 190.78	\$ 4,578.72
604-12083	DETECTABLE WARNING SURFACES	6	SYS	\$ 215.12	\$ 1,290.72
605-06120	CURB, CONCRETE	6207	LFT	\$ 18.72	\$ 116,195.04
605-06140	CURB AND GUTTER, CONCRETE	8665	LFT	\$ 27.00	\$ 233,955.00
605-06255	CENTER CURB, D CONCRETE	206	SYS	\$ 210.00	\$ 43,260.00
610-08446	PCCP FOR APPROACHES, 6 IN.	842	SYS	\$ 67.01	\$ 56,422.42
621-01004	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	2	EACH	\$ 482.58	\$ 965.16
621-06545	FERTILIZER	2	TON	\$ 704.47	\$ 1,408.94
621-06553	SEED MIXTURE R	794	LBS	\$ 3.98	\$ 3,160.12
621-06565	MULCHING MATERIAL	8	TON	\$ 451.26	\$ 3,610.08
621-06567	WATER	40	KGAL	\$ 3.00	\$ 120.00
621-06575	SODDING, NURSERY	9861	SYS	\$ 5.53	\$ 54,531.33
623-99999	MOWING, MEDIANS	11	EACH	\$ 500.00	\$ 5,500.00
714-11097	STRUCTURE, REINFORCED CONCRETE, BOX SECTIONS, 14 FT. X	115	LFT	\$ 1,750.00	\$ 201,250.00
715-04855	PIPE END SECTION, DIA 42 IN.	4	EACH	\$ 1,500.00	\$ 6,000.00
715-05024	PIPE, TYPE 2, CIRCULAR, 36 IN.	1050	LFT	\$ 96.70	\$ 101,535.00
715-05048	PIPE, TYPE 4, CIRCULAR, 6 IN.	9084	LFT	\$ 5.83	\$ 52,959.72
715-05149	PIPE, TYPE 2, CIRCULAR, 12 IN.	1914	LFT	\$ 79.00	\$ 151,206.00
715-05152	PIPE, TYPE 2, CIRCULAR, 18 IN.	1451	LFT	\$ 87.50	\$ 126,962.50
715-05154	PIPE, TYPE 2, CIRCULAR, 24 IN.	1020	LFT	\$ 126.00	\$ 128,520.00
715-05156	PIPE, TYPE 2, CIRCULAR, 30 IN.	894	LFT	\$ 147.51	\$ 131,873.94
715-05159	PIPE, TYPE 2, CIRCULAR, 42 IN.	275	LFT	\$ 163.13	\$ 44,860.75
715-46010	PIPE END SECTION, DIAMETER 18 IN.	1	EACH	\$ 1,000.00	\$ 1,000.00
715-46020	PIPE END SECTION, DIAMETER 24 IN.	1	EACH	\$ 1,825.00	\$ 1,825.00
715-46030	PIPE END SECTION, DIAMETER 30 IN.	1	EACH	\$ 1,358.18	\$ 1,358.18
715-46040	PIPE END SECTION, DIAMETER 36 IN.	2	EACH	\$ 1,450.00	\$ 2,900.00
718-06532	VIDEO INSPECTION FOR UNDERDRAINS	3000	LFT	\$ 1.07	\$ 3,210.00
718-12305	GEOTEXTILES FOR UNDERDRAIN, TYPE 1A	7340	SYS	\$ 1.00	\$ 7,340.00
718-52610	AGGREGATE FOR UNDERDRAINS	816	CYS	\$ 57.18	\$ 46,658.88
720-45410	MANHOLE, C4	21	EACH	\$ 3,966.67	\$ 83,300.07
720-98174	INLET, B15	70	EACH	\$ 2,700.00	\$ 189,000.00
801-06775	MAINTAINING TRAFFIC	1	LS	\$ 269,300.00	\$ 269,300.00
802-99999	SIGNING	1	LS	\$ 50,000.00	\$ 50,000.00
807-04744	LIGHTING	1	LS	\$ 100,000.00	\$ 100,000.00
808-99999	PAVEMENT MARKINGS	1	LS	\$ 20,000.00	\$ 20,000.00
				Total	\$ 6,462,396.15
				15% Contingency	\$ 969,359.42
					\$ 7,431,755.57

PAY ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL
105-06845	CONSTRUCTION ENGINEERING	1	LS	\$ 233,200.00	\$ 233,200.00
110-01001	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 163,200.00	\$ 163,200.00
201-52370	CLEARING RIGHT OF WAY	1	LS	\$ 163,200.00	\$ 163,200.00
202-02240	PAVEMENT REMOVAL	46817	SYS	\$ 9.00	\$ 421,353.00
203-02000	EXCAVATION, COMMON	27635	CYS	\$ 29.00	\$ 801,415.00
203-02070	BORROW	16680	CYS	\$ 12.25	\$ 204,330.00
205-12108	STORM WATER MANAGEMENT BUDGET	150000	DOL	\$ 1.00	\$ 150,000.00
207-08264	SUBGRADE TREATMENT, TYPE II	1070	SYS	\$ 25.00	\$ 26,750.00
207-08266	SUBGRADE TREATMENT, TYPE III	15801	SYS	\$ 2.00	\$ 31,602.00
207-09934	SUBGRADE TREATMENT, TYPE IB	58276	SYS	\$ 9.93	\$ 578,680.68
301-12234	COMPACTED AGGREGATE NO. 53	10437	CYS	\$ 30.00	\$ 313,110.00
401-07328	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm	3862	TON	\$ 84.00	\$ 324,408.00
401-07398	QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm	6437	TON	\$ 76.00	\$ 489,212.00
401-07424	QC/QA-HMA, 3, 64, BASE, 19.0 mm	19193	TON	\$ 63.00	\$ 1,209,159.00
401-11787	QC/QA-HMA, 3, 76, INTERMEDIATE, OG 19.0 mm	6232	TON	\$ 70.00	\$ 436,240.00
601-12281	GUARDRAIL MGS W-BEAM, 6 FT 3 IN SPACING	1657	LFT	\$ 20.18	\$ 33,438.26
601-94689	GUARDRAIL, END TREATMENT, OS	4	EACH	\$ 2,975.31	\$ 11,901.24
604-05528	HMA FOR SIDEWALK	3476	TON	\$ 92.07	\$ 320,035.32
604-08086	CURB RAMP, CONCRETE	276	SYS	\$ 190.78	\$ 52,655.28
604-12083	DETECTABLE WARNING SURFACES	69	SYS	\$ 215.12	\$ 14,843.28
605-06120	CURB, CONCRETE	6854	LFT	\$ 18.72	\$ 128,306.88
605-06140	CURB AND GUTTER, CONCRETE	13306	LFT	\$ 27.00	\$ 359,262.00
605-06255	CENTER CURB, D CONCRETE	484	SYS	\$ 210.00	\$ 101,640.00
610-08446	PCCP FOR APPROACHES, 6 IN.	1070	SYS	\$ 67.01	\$ 71,700.70
621-01004	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	2	EACH	\$ 482.58	\$ 965.16
621-06545	FERTILIZER	2	TON	\$ 704.47	\$ 1,408.94
621-06553	SEED MIXTURE R	970	LBS	\$ 3.98	\$ 3,860.60
621-06565	MULCHING MATERIAL	10	TON	\$ 451.26	\$ 4,512.60
621-06567	WATER	41	KGAL	\$ 3.00	\$ 123.00
621-06575	SODDING, NURSERY	10283	SYS	\$ 5.53	\$ 56,864.99
623-99999	MOWING, MEDIANS	12	EACH	\$ 500.00	\$ 6,000.00
714-11087	STRUCTURE, REINFORCED CONCRETE, BOX SECTIONS, 12 FT. X 5 FT.	115	LFT	\$ 1,500.00	\$ 172,500.00
714-11636	STRUCTURE, REINFORCED CONCRETE BOX SECTIONS, 13 FT X 6 FT	115	LFT	\$ 1,600.00	\$ 184,000.00
715-04855	PIPE END SECTION, DIA 42 IN.	2	EACH	\$ 1,500.00	\$ 3,000.00
715-05024	PIPE, TYPE 2, CIRCULAR, 36 IN.	1225	LFT	\$ 96.70	\$ 118,457.50
715-05048	PIPE, TYPE 4, CIRCULAR, 6 IN.	13444	LFT	\$ 5.83	\$ 78,378.52
715-05149	PIPE, TYPE 2, CIRCULAR, 12 IN.	2398	LFT	\$ 55.00	\$ 131,890.00
715-05152	PIPE, TYPE 2, CIRCULAR, 18 IN.	1250	LFT	\$ 68.00	\$ 85,000.00
715-05154	PIPE, TYPE 2, CIRCULAR, 24 IN.	2250	LFT	\$ 50.00	\$ 112,500.00
715-05156	PIPE, TYPE 2, CIRCULAR, 30 IN.	1125	LFT	\$ 75.00	\$ 84,375.00
715-05159	PIPE, TYPE 2, CIRCULAR, 42 IN.	575	LFT	\$ 135.00	\$ 77,625.00
715-46010	PIPE END SECTION, DIAMETER 18 IN.	1	EACH	\$ 1,000.00	\$ 1,000.00
715-46020	PIPE END SECTION, DIAMETER 24 IN.	3	EACH	\$ 1,825.00	\$ 5,475.00
715-46030	PIPE END SECTION, DIAMETER 30 IN.	1	EACH	\$ 1,358.18	\$ 1,358.18
715-46040	PIPE END SECTION, DIAMETER 36 IN.	1	EACH	\$ 1,450.00	\$ 1,450.00
718-06532	VIDEO INSPECTION FOR UNDERDRAINS	3000	LFT	\$ 1.07	\$ 3,210.00
718-12305	GEOTEXTILES FOR UNDERDRAIN, TYPE 1A	10862	SYS	\$ 1.00	\$ 10,862.00
718-52610	AGGREGATE FOR UNDERDRAINS	1210	CYS	\$ 57.18	\$ 69,187.80
720-45410	MANHOLE, C4	30	EACH	\$ 3,000.00	\$ 90,000.00
720-98174	INLET, B15	80	EACH	\$ 2,700.00	\$ 216,000.00
801-06775	MAINTAINING TRAFFIC	1	LS	\$ 163,200.00	\$ 163,200.00
802-99999	SIGNING	1	LS	\$ 50,000.00	\$ 50,000.00
807-04744	LIGHTING	1	LS	\$ 100,000.00	\$ 100,000.00
808-99999	PAVEMENT MARKINGS	1	LS	\$ 20,000.00	\$ 20,000.00
Subtotal					\$ 8,492,846.93
15% Contingency					\$ 1,273,927.04
					\$ 9,766,773.97