

APPENDIX H

CONCEPTUAL COST ESTIMATES



DRAFT NOVEMBER 2024
PRELIMINARY FEASIBILITY STUDY
U.S. 23 CORRIDOR STUDY, PID 112768

Concept Cost Summary by Segments

2030 Construction Costs - LOW						
	NB	E	D	C	B	A
1S					\$ 81,592,987	\$ 351,282,600
1N			\$ 62,141,905	\$ 76,817,215	\$ 91,042,976	\$ 136,917,197
2			\$ 115,565,014	\$ 128,438,069	\$ 165,394,446	\$ 182,563,935
3			\$ 109,680,267	\$ 130,414,997	\$ 160,018,825	\$ 193,454,645
4			\$ 99,373,157	\$ 132,293,080	\$ 158,691,846	\$ 271,305,008
5		\$ 98,585,094	\$ 136,401,300	\$ 181,297,889	\$ 203,193,049	\$ 262,984,305
6			\$ 61,787,142	\$ 78,542,288	\$ 223,818,101	\$ 336,562,607
7			\$ 25,277,604	\$ 60,499,430	\$ 80,232,156	\$ 124,696,799

1.00 added contingency

ROW Costs - LOW						
	NB	E	D	C	B	A
1S					\$ 6,288,574	\$ 136,680,519
1N			\$ 38,661,184	\$ 56,970,915	\$ 71,395,790	\$ 175,001,461
2			\$ 38,836,756	\$ 41,647,825	\$ 70,702,779	\$ 78,529,780
3			\$ 10,298,924	\$ 11,263,092	\$ 9,799,232	\$ 18,869,942
4			\$ 16,133,489	\$ 21,610,467	\$ 30,105,421	\$ 36,151,089
5		\$ 13,458,829	\$ 16,446,544	\$ 34,217,001	\$ 40,719,496	\$ 51,876,031
6			\$ 11,197,869	\$ 7,706,800	\$ 29,342,798	\$ 39,658,565
7			\$ 71,709	\$ 542,066	\$ 589,931	\$ 860,574

0.75 factor

ROW Costs w/Inflation						
	NB	E	D	C	B	A
1S	\$ -	\$ -	\$ -	\$ -	\$ 8,515,110	\$ 185,073,712
1N	\$ -	\$ -	\$ 52,349,587	\$ 77,142,074	\$ 96,674,230	\$ 236,962,592
2	\$ -	\$ -	\$ 52,587,323	\$ 56,393,681	\$ 95,735,852	\$ 106,334,085
3	\$ -	\$ -	\$ 13,945,368	\$ 15,250,909	\$ 13,268,754	\$ 25,551,045
4	\$ -	\$ -	\$ 21,845,722	\$ 29,261,883	\$ 40,764,565	\$ 48,950,767
5	\$ -	\$ 18,224,070	\$ 22,269,619	\$ 46,331,894	\$ 55,136,668	\$ 70,243,292
6	\$ -	\$ -	\$ 15,162,594	\$ 10,435,475	\$ 39,731,928	\$ 53,700,103
7	\$ -	\$ -	\$ 97,098	\$ 733,991	\$ 798,803	\$ 1,165,270

35% inflation

Total Cost						
	NB	E	D	C	B	A
1S	\$ -	\$ -	\$ -	\$ -	\$ 90,000,000	\$ 535,000,000
1N	\$ -	\$ -	\$ 115,000,000	\$ 155,000,000	\$ 190,000,000	\$ 375,000,000
2	\$ -	\$ -	\$ 170,000,000	\$ 185,000,000	\$ 260,000,000	\$ 290,000,000
3	\$ -	\$ -	\$ 125,000,000	\$ 145,000,000	\$ 175,000,000	\$ 220,000,000
4	\$ -	\$ -	\$ 120,000,000	\$ 160,000,000	\$ 200,000,000	\$ 320,000,000
5	\$ -	\$ 115,000,000	\$ 160,000,000	\$ 230,000,000	\$ 260,000,000	\$ 335,000,000
6	\$ -	\$ -	\$ 75,000,000	\$ 90,000,000	\$ 265,000,000	\$ 390,000,000
7	\$ -	\$ -	\$ 25,000,000	\$ 60,000,000	\$ 80,000,000	\$ 125,000,000

2030 Construction Costs - HIGH						
	NB	E	D	C	B	A
1S					\$ 101,991,233	\$ 439,103,250
1N			\$ 77,677,382	\$ 96,021,518	\$ 113,803,720	\$ 171,146,496
2			\$ 144,456,268	\$ 160,547,586	\$ 206,743,058	\$ 228,204,919
3			\$ 137,100,333	\$ 163,018,747	\$ 200,023,532	\$ 241,818,306
4			\$ 124,216,446	\$ 165,366,349	\$ 198,364,807	\$ 339,131,260
5		\$ 123,231,367	\$ 170,501,624	\$ 226,622,361	\$ 253,991,312	\$ 328,730,382
6			\$ 77,233,927	\$ 98,177,860	\$ 279,772,626	\$ 420,703,259
7			\$ 31,597,005	\$ 75,624,287	\$ 100,290,195	\$ 155,870,999

1.25 added contingency

ROW Costs - HIGH						
	NB	E	D	C	B	A
1S					\$ 10,480,956	\$ 227,800,864
1N			\$ 64,435,306	\$ 94,951,525	\$ 118,992,983	\$ 291,669,102
2			\$ 64,727,927	\$ 69,413,042	\$ 117,837,966	\$ 130,882,966
3			\$ 17,164,873	\$ 18,771,819	\$ 16,332,053	\$ 31,449,903
4			\$ 26,889,148	\$ 36,017,445	\$ 50,175,701	\$ 60,251,815
5		\$ 22,431,381	\$ 27,410,907	\$ 57,028,334	\$ 67,865,827	\$ 86,460,051
6			\$ 18,663,116	\$ 12,844,667	\$ 48,904,663	\$ 66,097,609
7			\$ 119,514	\$ 903,444	\$ 983,219	\$ 1,434,290

1.25 factor

ROW Costs w/Inflation						
	NB	E	D	C	B	A
1S	\$ -	\$ -	\$ -	\$ -	\$ 14,191,850	\$ 308,456,186
1N	\$ -	\$ -	\$ 87,249,312	\$ 128,570,123	\$ 161,123,716	\$ 394,937,654
2	\$ -	\$ -	\$ 87,645,538	\$ 93,989,468	\$ 159,559,753	\$ 177,223,474
3	\$ -	\$ -	\$ 23,242,279	\$ 25,418,182	\$ 22,114,590	\$ 42,585,076
4	\$ -	\$ -	\$ 36,409,537	\$ 48,769,805	\$ 67,940,942	\$ 81,584,612
5	\$ -	\$ 30,373,450	\$ 37,116,031	\$ 77,219,823	\$ 91,894,446	\$ 117,072,153
6	\$ -	\$ -	\$ 25,270,990	\$ 17,392,459	\$ 66,219,880	\$ 89,500,171
7	\$ -	\$ -	\$ 161,830	\$ 1,223,318	\$ 1,331,338	\$ 1,942,116

35% inflation

Total Cost						
	NB	E	D	C	B	A
1S	\$ -	\$ -	\$ -	\$ -	\$ 115,000,000	\$ 750,000,000
1N	\$ -	\$ -	\$ 165,000,000	\$ 225,000,000	\$ 275,000,000	\$ 565,000,000
2	\$ -	\$ -	\$ 230,000,000	\$ 255,000,000	\$ 365,000,000	\$ 405,000,000
3	\$ -	\$ -	\$ 160,000,000	\$ 190,000,000	\$ 220,000,000	\$ 285,000,000
4	\$ -	\$ -	\$ 160,000,000	\$ 215,000,000	\$ 265,000,000	\$ 420,000,000
5	\$ -	\$ 155,000,000	\$ 210,000,000	\$ 305,000,000	\$ 345,000,000	\$ 445,000,000
6	\$ -	\$ -	\$ 105,000,000	\$ 115,000,000	\$ 345,000,000	\$ 510,000,000
7	\$ -	\$ -	\$ 30,000,000	\$ 75,000,000	\$ 100,000,000	\$ 160,000,000

SEGMENT 1 CONCEPT A - OVERALL

SEGMENT 1S - CONCEPT A	Quantity
Construction Subtotal	\$155,907,000
Contingency (30%)	\$46,772,000
Construction Total	\$202,679,000
Right-of-Way	\$0
Engineering (18%)	\$36,482,000
Construction Engineering (10%)	\$20,268,000
Project Subtotal	\$259,429,000
Inflation (30%)	\$77,828,700
Subtotal	\$337,258,000
SEGMENT 1N CONCEPT A - RANGE 1	Quantity
Construction Subtotal	\$7,429,000
Contingency (30%)	\$2,229,000
Construction Total	\$9,658,000
Right-of-Way	\$0
Engineering (18%)	\$1,738,000
Construction Engineering (10%)	\$966,000
Project Subtotal	\$12,362,000
Inflation (30%)	\$3,708,600
Subtotal	\$16,071,000
SEGMENT 1N CONCEPT A - RANGE 2	Quantity
Construction Subtotal	\$2,852,000
Contingency (30%)	\$856,000
Construction Total	\$3,708,000
Right-of-Way	\$0
Engineering (18%)	\$667,000
Construction Engineering (10%)	\$371,000
Project Subtotal	\$4,746,000
Inflation (30%)	\$1,423,800
Subtotal	\$6,170,000
SEGMENT 1N CONCEPT A - RANGE 3	Quantity
Construction Subtotal	\$39,149,000
Contingency (30%)	\$11,745,000
Construction Total	\$50,894,000
Right-of-Way	\$0
Engineering (18%)	\$9,161,000
Construction Engineering (10%)	\$5,089,000
Project Subtotal	\$65,144,000
Inflation (30%)	\$19,543,200
Subtotal	\$84,687,000
SEGMENT 1N CONCEPT A - RANGE 4	Quantity
Construction Subtotal	\$11,336,000
Contingency (30%)	\$3,401,000
Construction Total	\$14,737,000
Right-of-Way	\$0
Engineering (18%)	\$2,653,000
Construction Engineering (10%)	\$1,474,000
Project Subtotal	\$18,864,000
Inflation (30%)	\$5,659,200
Subtotal	\$24,523,000
SEGMENT 1 - OVERALL	Quantity
SEGMENT 1S - CONCEPT A	\$337,258,000
SEGMENT 1N CONCEPT A - RANGE 1	\$16,071,000
SEGMENT 1N CONCEPT A - RANGE 2	\$6,170,000
SEGMENT 1N CONCEPT A - RANGE 3	\$84,687,000
SEGMENT 1N CONCEPT A - RANGE 4	\$24,523,000
Total - Segment 1 - Overall	\$468,709,000

Estimate completed by:



Segment 1S
 Construction w/ Contingency w/out Inflation: \$259,429,000

Segment 1N
 Construction w/ Contingency w/out Inflation: \$101,116,000

SEGMENT 15 - CONCEPT A
270 Interchange to Northwoods Blvd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	48,300	SY	\$20.00	\$966,000.00
CULVERT REMOVED	250	FT	\$100.00	\$25,000.00
RETAINING WALL REMOVED	1	LUMP	\$200,000.00	\$200,000.00
EXCAVATION	85,200	CY	\$40.00	\$3,408,000.00
EMBANKMENT	540,587	CY	\$45.00	\$24,326,418.33
GUARDRAIL	6,000	FT	\$22.00	\$132,000.00
MEDIAN BARRIER	13,622	FT	\$120.00	\$1,634,640.00
CURB AND GUTTER	11,500	FT	\$42.00	\$483,000.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	20,000	SF	\$13.00	\$260,000.00
Roadway Subtotal				\$31,435,058.33

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	2,500,000	EACH	\$1.00	\$2,500,000.00
EROSION CONTROL PLAN	1	LUMP	\$500,000.00	\$500,000.00
BMPs	1	LUMP	\$2,125,000.00	\$2,125,000.00
SEEDING AND MULCHING	250,000	SY	\$2.00	\$500,000.00
Erosion Control Subtotal				\$5,625,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	34,500	FT	\$300.00	\$10,350,000.00
UNDERDRAINS	147,600	FT	\$15.00	\$2,214,000.00
Drainage Subtotal				\$12,864,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	104,294	SY	\$100.00	\$10,429,366.67
FULL-DEPTH PAVEMENT (CONCRETE)	35,600	SY	\$150.00	\$5,340,000.00
PAVEMENT PLANING AND RESURFACING	60,400	SY	\$54.00	\$3,261,600.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$19,030,966.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	5.28	MILE	\$250,000.00	\$1,320,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	5.28	MILE	\$30,000.00	\$158,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$1,478,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	4	EACH	\$300,000.00	\$1,200,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	5.28	MILE	\$170,000.00	\$897,600.00
CCTV	4	EACH	\$123,000.00	\$492,000.00
Traffic Control - Traffic Signal Subtotal				\$2,589,600.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	34,500	FT	\$100.00	\$3,450,000.00
Traffic Control - Traffic Signal Subtotal				\$3,950,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	14	EACH	\$1,500,000.00	\$21,000,000.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$21,000,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	231,800	SF	\$90.00	\$20,862,000.00
BRIDGE	140,100	SF	\$220.00	\$30,822,000.00
Structures Subtotal				\$51,684,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$250,000.00	\$250,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$4,000,000.00	\$4,000,000.00
MOBILIZATION	1	LUMP	\$2,000,000.00	\$2,000,000.00
Miscellaneous Subtotal				\$6,250,000.00

Project Summary	Subtotal
Roadway	\$31,435,058
Erosion Control	\$5,625,000
Drainage	\$12,864,000
Pavement	\$19,030,967
Traffic Control - Signing and Pavement Marking	\$1,478,400
Traffic Signal and Surveillance	\$2,589,600
Roadway Lighting	\$3,950,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$21,000,000
Structures	\$51,684,000
Incidentals	\$6,250,000
Total	\$155,907,000

Contingency (30%)	\$46,772,000	\$40,535,800.00	20%
		\$30,401,850.00	15%
		\$20,267,900.00	10%
		\$10,133,950.00	5%
		\$2,026,790.00	1%
Subtotal	\$202,679,000		

Right-of-Way	\$0
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Engineering (18%)	\$36,482,000
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Construction Engineering (10%)	\$20,268,000
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Subtotal	\$259,429,000
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Inflation (30%)	\$77,828,700
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Project Total (2030 Dollars)	\$337,258,000
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Estimate completed by:



SEGMENT IN CONCEPT A - RANGE 1
Northwoods Blvd South TO Northwoods Blvd North

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,500	SY	\$20.00	\$50,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	3,000	CY	\$40.00	\$120,000.00
EMBANKMENT	1,500	CY	\$45.00	\$67,500.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER	3,000	FT	\$120.00	\$360,000.00
CURB AND GUTTER	300	FT	\$42.00	\$12,600.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	13,500	SF	\$13.00	\$175,500.00
Roadway Subtotal				\$785,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	150,000	EACH	\$1.00	\$150,000.00
EROSION CONTROL PLAN	1	LUMP	\$30,000.00	\$30,000.00
BMPs	1	LUMP	\$75,000.00	\$75,000.00
SEEDING AND MULCHING	16,800	SY	\$3.00	\$33,600.00
Erosion Control Subtotal				\$288,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	3,800	FT	\$300.00	\$1,140,000.00
UNDERDRAINS	18,600	FT	\$15.00	\$279,000.00
Drainage Subtotal				\$1,419,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	28,600	SY	\$100.00	\$2,860,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	5,600	SY	\$54.00	\$302,400.00
SHARED USE PATH	1,900	SY	\$42.00	\$79,800.00
Pavement Subtotal				\$3,242,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.38	MILE	\$250,000.00	\$95,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.38	MILE	\$30,000.00	\$11,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$106,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.38	MILE	\$170,000.00	\$64,600.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$487,600.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3000	FT	\$100.00	\$300,000.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$50,000.00	\$50,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$350,000.00	\$350,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$800,000.00

Project Summary	Subtotal
Roadway	\$785,600
Erosion Control	\$288,600
Drainage	\$1,419,000
Pavement	\$3,242,200
Traffic Control - Signing and Pavement Marking	\$106,400
Traffic Signal and Surveillance	\$487,600
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$800,000
Total	\$7,429,000

Contingency (30%)	\$2,229,000	\$1,931,600.00	20%
		\$1,448,700.00	15%
Subtotal	\$9,658,000	\$965,800.00	10%
Right-of-Way	\$0	\$482,900.00	5%
		\$96,580.00	1%
Engineering (18%)	\$1,738,000		
Construction Engineering (10%)	\$966,000		
Subtotal	\$12,362,000		
Inflation (30%)	\$3,708,600		
Project Total (2030 Dollars)	\$16,071,000		

Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT IN CONCEPT A - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,500	SY	\$20.00	\$50,000.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	900	CY	\$40.00	\$36,000.00
EMBANKMENT	500	CY	\$45.00	\$22,500.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	600	FT	\$120.00	\$72,000.00
CURB AND GUTTER	2,200	FT	\$42.00	\$92,400.00
CONCRETE MEDIAN	125	SY	\$100.00	\$12,500.00
CONCRETE WALK	2,600	SF	\$13.00	\$33,800.00
Roadway Subtotal				\$330,200.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	45,000	EACH	\$1.00	\$45,000.00
EROSION CONTROL PLAN	1	LUMP	\$15,000.00	\$15,000.00
BMPs	1	LUMP	\$30,000.00	\$30,000.00
SEEDING AND MULCHING	7,000	SY	\$2.00	\$14,000.00
Erosion Control Subtotal				\$104,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	1	FT	\$600.00	\$600.00
STORM SEWER SYSTEM	1,800	FT	\$300.00	\$540,000.00
UNDERDRAINS	8,400	FT	\$15.00	\$126,000.00
Drainage Subtotal				\$666,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	9,400	SY	\$100.00	\$940,000.00
FULL-DEPTH PAVEMENT (CONCRETE)	1,600	SY	\$150.00	\$240,000.00
PAVEMENT PLANING AND RESURFACING	4,200	SY	\$54.00	\$226,800.00
SHARED USE PATH	700	SY	\$42.00	\$29,400.00
Pavement Subtotal				\$1,436,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.11	MILE	\$250,000.00	\$27,500.00
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.11	MILE	\$30,000.00	\$3,300.00
Traffic Control - Signing and Pavement Marking Subtotal				\$30,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	600	FT	\$100.00	\$60,000.00
Traffic Control - Traffic Signal Subtotal				\$60,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	1	FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER	1	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	1	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	1	FT	\$0.00	\$0.00
DAM MODIFICATION	1	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	1	SF	\$90.00	\$0.00
BRIDGE	1	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$25,000.00	\$25,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$100,000.00	\$100,000.00
MOBILIZATION	1	LUMP	\$100,000.00	\$100,000.00
Miscellaneous Subtotal				\$225,000.00

Project Summary	Subtotal
Roadway	\$330,200
Erosion Control	\$104,000
Drainage	\$666,000
Pavement	\$1,436,200
Traffic Control - Signing and Pavement Marking	\$30,800
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$60,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$225,000
Total	\$2,852,000

Contingency (30%)	\$856,000	\$741,600.00	20%
		\$556,200.00	15%
Subtotal	\$3,708,000	\$370,800.00	10%
		\$185,400.00	5%
Right-of-Way	\$0	\$37,080.00	1%
Engineering (18%)	\$667,000		
Construction Engineering (10%)	\$371,000		
Subtotal	\$4,746,000		
Inflation (30%)	\$1,423,800		
Project Total (2030 Dollars)	\$6,170,000		

Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT IN CONCEPT A - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	13,100	SY	\$20.00	\$262,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	14,000	CY	\$40.00	\$560,000.00
EMBANKMENT	17,400	CY	\$45.00	\$783,000.00
GUARDRAIL	3,500	FT	\$22.00	\$77,000.00
MEDIAN BARRIER	6,250	FT	\$120.00	\$750,000.00
CURB AND GUTTER	16,000	FT	\$42.00	\$672,000.00
CONCRETE MEDIAN	8,500	SY	\$100.00	\$850,000.00
CONCRETE WALK	19,800	SF	\$13.00	\$257,400.00
Roadway Subtotal				\$4,211,400.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	750,000	EACH	\$1.00	\$750,000.00
EROSION CONTROL PLAN	1	LUMP	\$120,000.00	\$120,000.00
BMPs	1	LUMP	\$500,000.00	\$500,000.00
SEEDING AND MULCHING	250,000	SY	\$2.00	\$500,000.00
Erosion Control Subtotal				\$1,870,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	17,900	FT	\$300.00	\$5,370,000.00
UNDERDRAINS	78,400	FT	\$15.00	\$1,176,000.00
Drainage Subtotal				\$6,546,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	71,000	SY	\$100.00	\$7,100,000.00
FULL-DEPTH PAVEMENT (CONCRETE)	11,300	SY	\$150.00	\$1,695,000.00
PAVEMENT PLANING AND RESURFACING	5,000	SY	\$54.00	\$270,000.00
SHARED USE PATH	4,700	SY	\$42.00	\$197,400.00
Pavement Subtotal				\$9,262,400.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.88	MILE	\$250,000.00	\$720,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2.88	MILE	\$30,000.00	\$86,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$806,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
ROUNDBOUNT LIGHTING	3	EACH	\$175,000.00	\$525,000.00
CONTINUOUS ROADWAY LIGHTING	15,200	FT	\$100.00	\$1,520,000.00
Traffic Control - Traffic Signal Subtotal				\$2,545,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	35,000	SF	\$90.00	\$3,150,000.00
BRIDGE	28,900	SF	\$220.00	\$6,358,000.00
Structures Subtotal				\$9,508,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$200,000.00	\$200,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$3,000,000.00	\$3,000,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$4,400,000.00

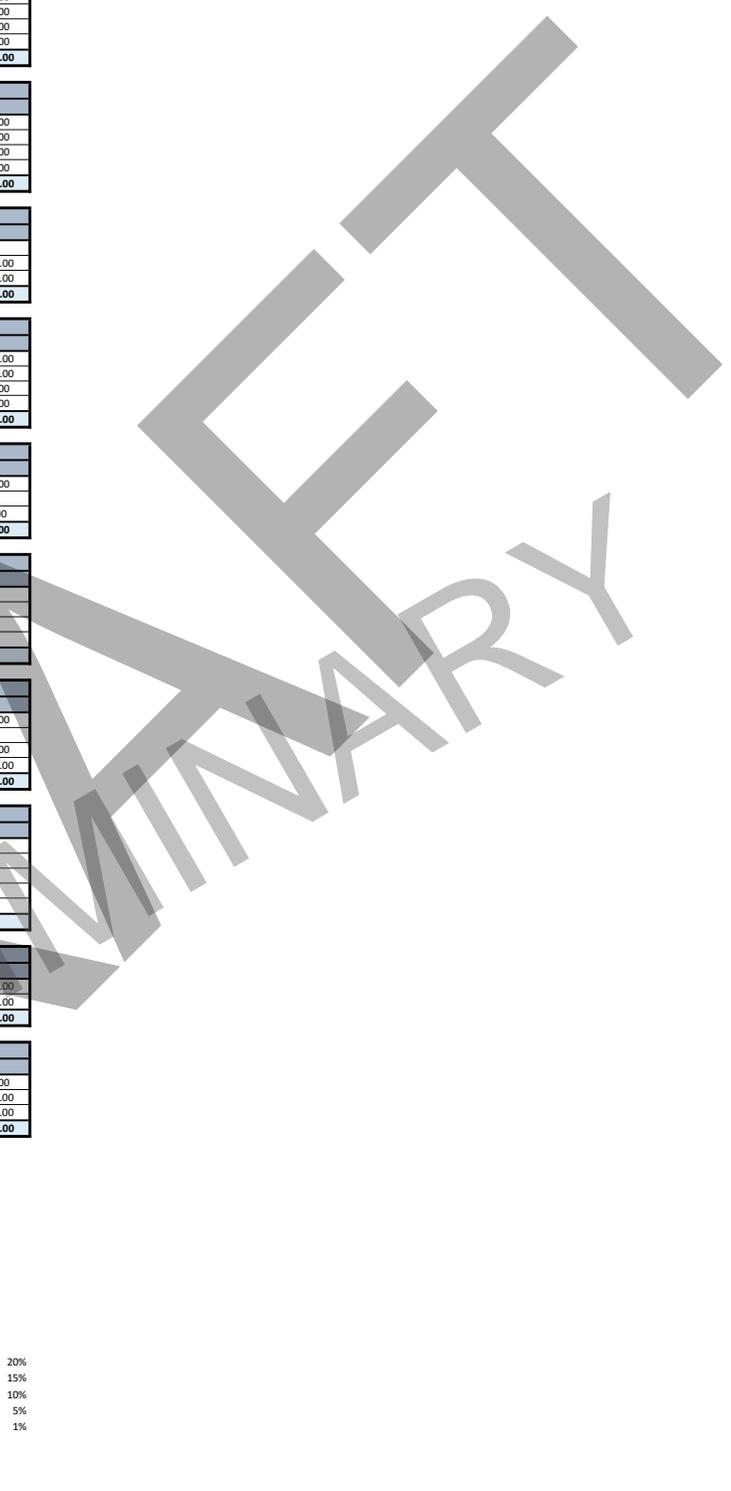
Project Summary	Subtotal
Roadway	\$4,211,400
Erosion Control	\$1,870,000
Drainage	\$6,546,000
Pavement	\$9,262,400
Traffic Control - Signing and Pavement Marking	\$806,400
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$2,545,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$9,508,000
Incidentals	\$4,400,000
Total	\$39,149,000

Contingency (30%)	\$11,745,000	\$10,178,800.00	20%
		\$7,634,100.00	15%
Subtotal	\$50,894,000	\$5,089,400.00	10%
		\$2,544,700.00	5%
Right-of-Way	\$0	\$508,940.00	1%

Engineering (18%)	\$9,161,000
Construction Engineering (10%)	\$5,089,000
Subtotal	\$65,144,000

Inflation (30%)	\$19,543,200
Project Total (2030 Dollars)	\$84,687,000

Estimate completed by:



SEGMENT IN CONCEPT A - RANGE 4
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	6,700	SY	\$20.00	\$134,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	4,200	CY	\$40.00	\$168,000.00
EMBANKMENT	3,800	CY	\$45.00	\$171,000.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	4,800	FT	\$12.00	\$576,000.00
CURB AND GUTTER	2,600	FT	\$42.00	\$109,200.00
CONCRETE MEDIAN	800	SY	\$100.00	\$80,000.00
CONCRETE WALK	5,600	SF	\$13.00	\$72,800.00
Roadway Subtotal				\$1,342,000.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	270,000	EACH	\$1.00	\$270,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$135,000.00	\$135,000.00
SEEDING AND MULCHING	42,800	SY	\$3.00	\$128,400.00
Erosion Control Subtotal				\$540,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	6,700	FT	\$300.00	\$2,010,000.00
UNDERDRAINS	32,200	FT	\$15.00	\$483,000.00
Drainage Subtotal				\$2,613,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	33,700	SY	\$100.00	\$3,370,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	17,200	SY	\$54.00	\$928,800.00
SHARED USE PATH	800	SY	\$42.00	\$33,600.00
Pavement Subtotal				\$4,332,400.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.36	MILE	\$250,000.00	\$340,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.36	MILE	\$30,000.00	\$40,800.00
Traffic Control - Signing and Pavement Marking Subtotal				\$380,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	7200	FT	\$100.00	\$720,000.00
Traffic Control - Traffic Signal Subtotal				\$720,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	4,800	SF	\$90.00	\$432,000.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$432,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$75,000.00	\$75,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$500,000.00	\$500,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$975,000.00

Project Summary	Subtotal
Roadway	\$1,342,000
Erosion Control	\$540,600
Drainage	\$2,613,000
Pavement	\$4,332,400
Traffic Control - Signing and Pavement Marking	\$380,800
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$720,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$432,000
Incidentals	\$975,000
Total	\$11,336,000

Contingency (30%)	\$3,401,000	\$2,947,400.00	20%
		\$2,210,550.00	15%
Subtotal	\$14,737,000	\$1,473,700.00	10%
		\$736,850.00	5%
Right-of-Way	\$0	\$147,370.00	1%
Engineering (18%)	\$2,653,000		
Construction Engineering (10%)	\$1,474,000		
Subtotal	\$18,864,000		
Inflation (30%)	\$5,659,200		
Project Total (2030 Dollars)	\$24,523,000		

Estimate completed by:



SEGMENT 1 CONCEPT B - OVERALL

SEGMENT 1 CONCEPT B - RANGE 1S	
Construction Subtotal	\$36,212,000
Contingency (30%)	\$10,864,000
Construction Total	\$47,076,000
Right-of-Way	\$0
Engineering (18%)	\$8,474,000
Construction Engineering (10%)	\$4,708,000
Project Subtotal	\$60,258,000
Inflation (30%)	\$18,077,400
Subtotal	\$78,335,000
SEGMENT 1N CONCEPT B - RANGE 1	
Construction Subtotal	\$7,204,000
Contingency (30%)	\$2,161,000
Construction Total	\$9,365,000
Right-of-Way	\$0
Engineering (18%)	\$1,686,000
Construction Engineering (10%)	\$937,000
Project Subtotal	\$11,988,000
Inflation (30%)	\$3,596,400
Subtotal	\$15,584,000
SEGMENT 1N CONCEPT B - RANGE 2	
Construction Subtotal	\$1,690,000
Contingency (30%)	\$507,000
Construction Total	\$2,197,000
Right-of-Way	\$0
Engineering (18%)	\$395,000
Construction Engineering (10%)	\$220,000
Project Subtotal	\$2,812,000
Inflation (30%)	\$843,600
Subtotal	\$3,656,000
SEGMENT 1N CONCEPT B - RANGE 3	
Construction Subtotal	\$14,515,000
Contingency (30%)	\$4,355,000
Construction Total	\$18,870,000
Right-of-Way	\$0
Engineering (18%)	\$3,397,000
Construction Engineering (10%)	\$1,887,000
Project Subtotal	\$24,154,000
Inflation (30%)	\$7,246,200
Subtotal	\$31,400,000
SEGMENT 1N CONCEPT B - RANGE 4	
Construction Subtotal	\$16,997,000
Contingency (30%)	\$5,099,000
Construction Total	\$22,096,000
Right-of-Way	\$0
Engineering (18%)	\$3,977,000
Construction Engineering (10%)	\$2,210,000
Project Subtotal	\$28,283,000
Inflation (30%)	\$8,484,900
Subtotal	\$36,768,000
SEGMENT 1 - OVERALL	
SEGMENT 1 CONCEPT B - RANGE 1S	\$78,335,000
SEGMENT 1N CONCEPT B - RANGE 1	\$15,584,000
SEGMENT 1N CONCEPT B - RANGE 2	\$3,656,000
SEGMENT 1N CONCEPT B - RANGE 3	\$31,400,000
SEGMENT 1N CONCEPT B - RANGE 4	\$36,768,000
Total - Segment 1 - Overall	\$165,743,000

Estimate completed by:

Estimate completed by:



Segment 1S
 Construction w/ Contingency w/out Inflation: \$60,258,000

Segment 1N
 Construction w/ Contingency w/out Inflation: \$67,237,000

SEGMENT 1S CONCEPT B
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,200	SY	\$20.00	\$284,000.00
CULVERT REMOVED	150	FT	\$100.00	\$15,000.00
EXCAVATION	28,300	CY	\$40.00	\$1,132,000.00
EMBANKMENT	82,100	CY	\$45.00	\$3,694,500.00
GUARDRAIL	2,800	FT	\$22.00	\$61,600.00
MEDIAN BARRIER	3,400	FT	\$120.00	\$408,000.00
CURB AND GUTTER	3,500	FT	\$42.00	\$147,000.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	20,000	SF	\$13.00	\$260,000.00
Roadway Subtotal				\$6,002,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	600,000	EACH	\$1.00	\$600,000.00
EROSION CONTROL PLAN	1	LUMP	\$100,000.00	\$100,000.00
BMPs	1	LUMP	\$400,000.00	\$400,000.00
SEEDING AND MULCHING	80,000	SY	\$2.00	\$160,000.00
Erosion Control Subtotal				\$1,260,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	9,400	FT	\$300.00	\$2,820,000.00
UNDERDRAINS	40,800	FT	\$15.00	\$612,000.00
Drainage Subtotal				\$3,732,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	33,800	SY	\$100.00	\$3,380,000.00
FULL-DEPTH PAVEMENT (CONCRETE)	23,000	SY	\$150.00	\$3,450,000.00
PAVEMENT PLANING AND RESURFACING	57,000	SY	\$54.00	\$3,078,000.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,908,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.73	MILE	\$250,000.00	\$682,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2.73	MILE	\$30,000.00	\$81,900.00
Traffic Control - Signing and Pavement Marking Subtotal				\$764,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2.73	MILE	\$170,000.00	\$464,100.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,310,100.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	14,400	FT	\$100.00	\$1,440,000.00
Traffic Control - Traffic Signal Subtotal				\$1,740,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	37,500	SF	\$90.00	\$3,375,000.00
BRIDGE	23,500	SF	\$220.00	\$5,170,000.00
Structures Subtotal				\$8,545,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$150,000.00	\$150,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$2,000,000.00	\$2,000,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$2,950,000.00

Project Summary	Subtotal
Roadway	\$6,002,100
Erosion Control	\$1,260,000
Drainage	\$3,732,000
Pavement	\$9,908,000
Traffic Control - Signing and Pavement Marking	\$764,400
Traffic Signal and Surveillance	\$1,310,100
Roadway Lighting	\$1,740,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$8,545,000
Incidentals	\$2,950,000
Total	\$36,212,000

Contingency (30%)	\$10,864,000	\$9,415,200.00	20%
		\$7,061,400.00	15%
Subtotal	\$47,076,000	\$4,707,600.00	10%
		\$2,353,800.00	5%
Right-of-Way	\$0	\$470,760.00	1%

Engineering (18%)	\$8,474,000
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Construction Engineering (10%)	\$4,708,000
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Subtotal	\$60,258,000
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Inflation (30%)	\$18,077,400
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Project Total (2030 Dollars)	\$78,335,000
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Estimate completed by:



SEGMENT 1N CONCEPT B - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,600	SY	\$20.00	\$32,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	4,300	CY	\$40.00	\$172,000.00
EMBANKMENT	3,700	CY	\$45.00	\$166,500.00
GUARDRAIL	1,000	FT	\$22.00	\$22,000.00
MEDIAN BARRIER	1,600	FT	\$120.00	\$192,000.00
CURB AND GUTTER	1,600	FT	\$42.00	\$67,200.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	13,300	SF	\$13.00	\$172,900.00
Roadway Subtotal				\$824,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	150,000	EACH	\$1.00	\$150,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$85,000.00	\$85,000.00
SEEDING AND MULCHING	25,000	SY	\$2.00	\$50,000.00
Erosion Control Subtotal				\$310,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,400	FT	\$300.00	\$720,000.00
UNDERDRAINS	11,200	FT	\$15.00	\$168,000.00
Drainage Subtotal				\$888,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	15,600	SY	\$100.00	\$1,560,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	8,900	SY	\$54.00	\$480,600.00
SHARED USE PATH	500	SY	\$42.00	\$21,000.00
Pavement Subtotal				\$2,061,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.45	MILE	\$250,000.00	\$112,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.45	MILE	\$30,000.00	\$13,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$126,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	2400	FT	\$100.00	\$240,000.00
Traffic Control - Traffic Signal Subtotal				\$540,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	4,500	SF	\$90.00	\$405,000.00
BRIDGE	6,700	SF	\$220.00	\$1,474,000.00
Structures Subtotal				\$1,879,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$75,000.00	\$75,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$300,000.00	\$300,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$575,000.00

Project Summary	Subtotal
Roadway	\$824,600
Erosion Control	\$310,000
Drainage	\$888,000
Pavement	\$2,061,600
Traffic Control - Signing and Pavement Marking	\$126,000
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$540,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,879,000
Incidentals	\$575,000
Total	\$7,204,000

Contingency (30%)	\$2,161,000	\$1,873,000.00	20%
		\$1,404,750.00	15%
Subtotal	\$9,365,000	\$936,500.00	10%
		\$468,250.00	5%
Right-of-Way	\$0	\$93,650.00	1%

Engineering (18%)	\$1,686,000
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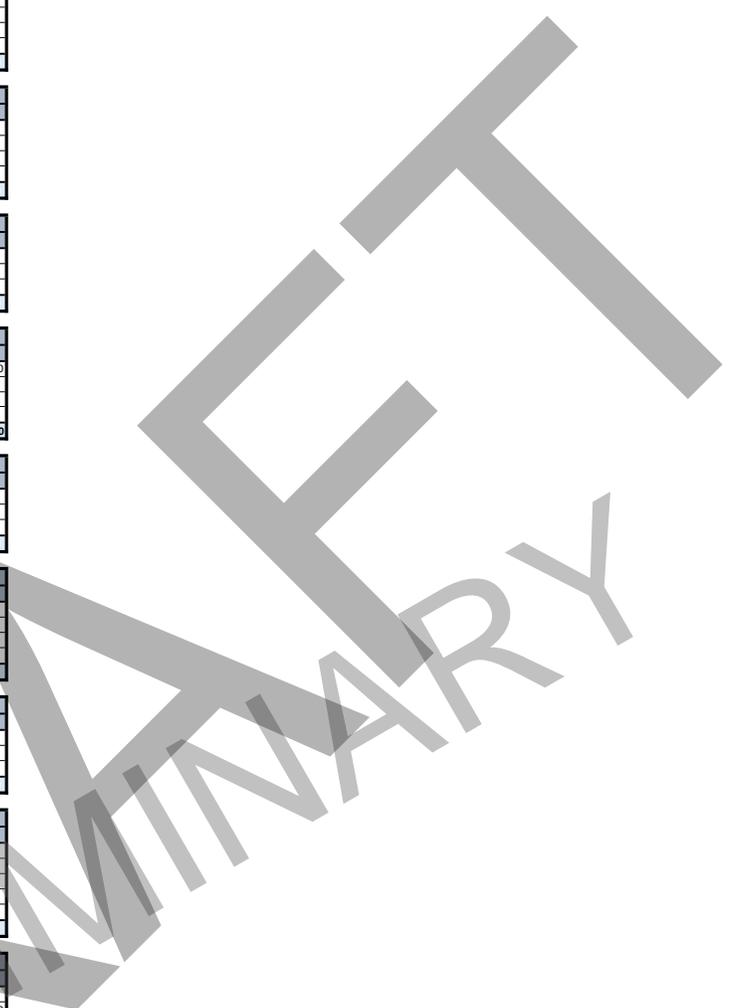
Construction Engineering (10%)	\$937,000
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Subtotal	\$11,988,000
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Inflation (30%)	\$3,596,400
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Project Total (2030 Dollars)	\$15,584,000
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Estimate completed by:



SEGMENT 1N CONCEPT B - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,700	SY	\$20.00	\$34,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,500	CY	\$40.00	\$100,000.00
EMBANKMENT	1,200	CY	\$45.00	\$54,000.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER	600	FT	\$120.00	\$72,000.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	2,500	SF	\$13.00	\$32,500.00
Roadway Subtotal				\$292,500.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	35,000	EACH	\$1.00	\$35,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$25,000.00	\$25,000.00
SEEDING AND MULCHING	3,900	SY	\$2.00	\$7,800.00
Erosion Control Subtotal				\$72,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	600	FT	\$300.00	\$180,000.00
UNDERDRAINS	3,600	FT	\$15.00	\$54,000.00
Drainage Subtotal				\$234,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	4,200	SY	\$100.00	\$420,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	6,000	SY	\$54.00	\$324,000.00
SHARED USE PATH	500	SY	\$42.00	\$21,000.00
Pavement Subtotal				\$765,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.11	MILE	\$250,000.00	\$27,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.11	MILE	\$30,000.00	\$3,300.00
Traffic Control - Signing and Pavement Marking Subtotal				\$30,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	600	FT	\$100.00	\$60,000.00
Traffic Control - Traffic Signal Subtotal				\$60,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$20,000.00	\$20,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$115,000.00	\$115,000.00
MOBILIZATION	1	LUMP	\$100,000.00	\$100,000.00
Miscellaneous Subtotal				\$235,000.00

Project Summary	Subtotal
Roadway	\$292,500
Erosion Control	\$72,800
Drainage	\$234,000
Pavement	\$765,000
Traffic Control - Signing and Pavement Marking	\$30,800
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$60,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$235,000
Total	\$1,690,000

Contingency (30%)	\$507,000	\$439,400.00	20%
		\$329,550.00	15%
		\$219,700.00	10%
		\$109,850.00	5%
		\$21,970.00	1%
Subtotal	\$2,197,000		

Right-of-Way	\$0
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Engineering (18%)	\$395,000
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Construction Engineering (10%)	\$220,000
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Subtotal	\$2,812,000
Inflation (30%)	\$843,600
Project Total (2030 Dollars)	\$3,656,000

Estimate completed by:



SEGMENT 1N CONCEPT B - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	8,300	SY	\$20.00	\$166,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	8,200	CY	\$40.00	\$328,000.00
EMBANKMENT	8,400	CY	\$45.00	\$378,000.00
GUARDRAIL	1,700	FT	\$22.00	\$37,400.00
MEDIAN BARRIER	1,100	FT	\$120.00	\$132,000.00
CURB AND GUTTER	2,200	FT	\$42.00	\$92,400.00
CONCRETE MEDIAN	600	SY	\$100.00	\$60,000.00
CONCRETE WALK	21,100	SF	\$13.00	\$274,300.00
Roadway Subtotal				\$1,468,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	330,000	EACH	\$1.00	\$330,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$165,000.00	\$165,000.00
SEEDING AND MULCHING	50,000	SY	\$2.00	\$100,000.00
Erosion Control Subtotal				\$635,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,000	FT	\$300.00	\$1,500,000.00
UNDERDRAINS	26,800	FT	\$15.00	\$402,000.00
Drainage Subtotal				\$1,902,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	32,900	SY	\$100.00	\$3,290,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	21,700	SY	\$54.00	\$1,171,800.00
SHARED USE PATH	3,400	SY	\$42.00	\$142,800.00
Pavement Subtotal				\$4,604,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.95	MILE	\$250,000.00	\$237,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.95	MILE	\$30,000.00	\$28,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$266,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.95	MILE	\$170,000.00	\$161,500.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$584,500.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	5000	FT	\$100.00	\$500,000.00
Traffic Control - Traffic Signal Subtotal				\$800,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	10,200	SF	\$90.00	\$918,000.00
BRIDGE	10,600	SF	\$220.00	\$2,332,000.00
Structures Subtotal				\$3,250,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$105,000.00	\$105,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$500,000.00	\$500,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$1,005,000.00

Project Summary	Subtotal
Roadway	\$1,468,100
Erosion Control	\$635,000
Drainage	\$1,902,000
Pavement	\$4,604,600
Traffic Control - Signing and Pavement Marking	\$266,000
Traffic Signal and Surveillance	\$584,500
Roadway Lighting	\$800,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,250,000
Incidentals	\$1,005,000
Total	\$14,515,000

Contingency (30%)	\$4,355,000	\$3,774,000.00	20%
		\$2,830,500.00	15%
Subtotal	\$18,870,000	\$1,887,000.00	10%
		\$943,500.00	5%
Right-of-Way	\$0	\$188,700.00	1%

Engineering (18%)	\$3,397,000
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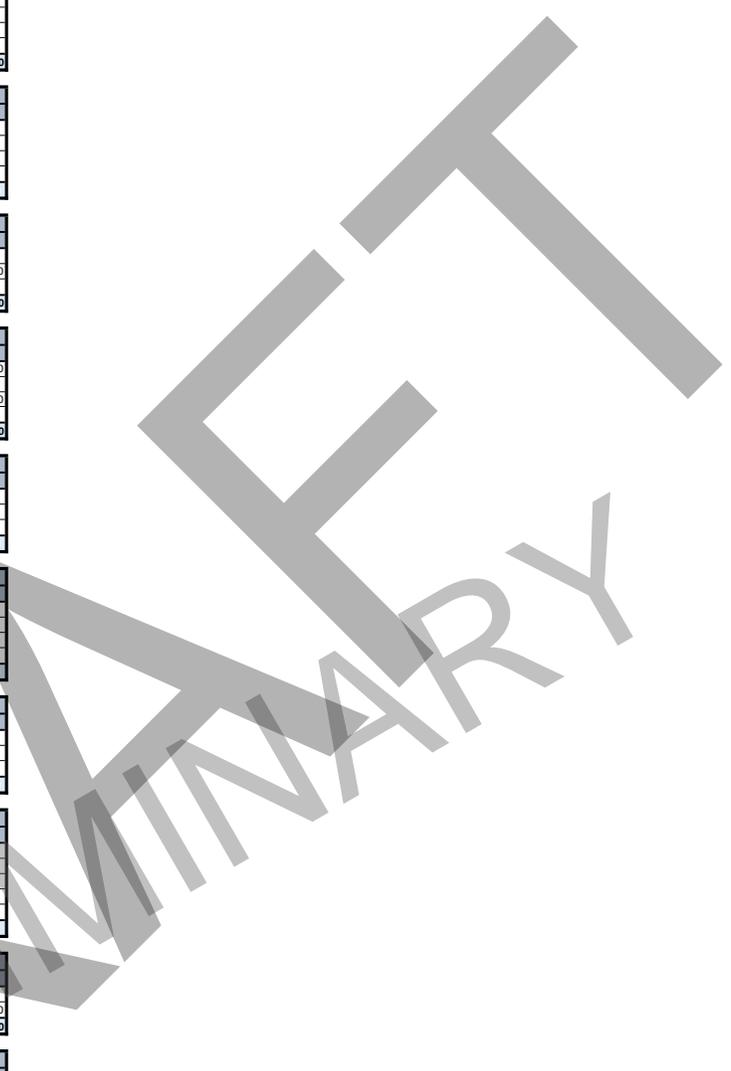
Construction Engineering (10%)	\$1,887,000
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Subtotal	\$24,154,000
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Inflation (30%)	\$7,246,200
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Project Total (2030 Dollars)	\$31,400,000
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Estimate completed by:



SEGMENT 1N CONCEPT B - RANGE 4
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	8,000	SY	\$20.00	\$160,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	25,000	CY	\$40.00	\$1,000,000.00
EMBANKMENT	65,000	CY	\$45.00	\$2,925,000.00
GUARDRAIL	2,500	FT	\$22.00	\$55,000.00
MEDIAN BARRIER	3,300	FT	\$120.00	\$396,000.00
CURB AND GUTTER	300	FT	\$42.00	\$12,600.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	3,000	SF	\$13.00	\$39,000.00
Roadway Subtotal				\$4,607,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	300,000	EACH	\$1.00	\$300,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$180,000.00	\$180,000.00
SEEDING AND MULCHING	50,000	SY	\$2.00	\$100,000.00
Erosion Control Subtotal				\$620,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	7,100	FT	\$300.00	\$2,130,000.00
UNDERDRAINS	38,200	FT	\$15.00	\$573,000.00
Drainage Subtotal				\$2,823,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	37,800	SY	\$100.00	\$3,780,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	20,000	SY	\$54.00	\$1,080,000.00
SHARED USE PATH	4,200	SY	\$42.00	\$176,400.00
Pavement Subtotal				\$5,036,400.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.34	MILE	\$250,000.00	\$335,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.34	MILE	\$30,000.00	\$40,200.00
Traffic Control - Signing and Pavement Marking Subtotal				\$375,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	7100	FT	\$100.00	\$710,000.00
Traffic Control - Traffic Signal Subtotal				\$710,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	850	SF	\$90.00	\$76,500.00
BRIDGE	7,900	SF	\$220.00	\$1,738,000.00
Structures Subtotal				\$1,814,500.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$110,000.00	\$110,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$500,000.00	\$500,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$1,010,000.00

Project Summary	Subtotal
Roadway	\$4,607,600
Erosion Control	\$620,000
Drainage	\$2,823,000
Pavement	\$5,036,400
Traffic Control - Signing and Pavement Marking	\$375,200
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$710,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,814,500
Incidentals	\$1,010,000
Total	\$16,997,000

Contingency (30%)	\$5,099,000	\$4,419,200.00	20%
		\$3,314,400.00	15%
		\$2,209,600.00	10%
		\$1,104,800.00	5%
		\$220,960.00	1%
Subtotal	\$22,096,000		
Right-of-Way	\$0		

Engineering (18%)	\$3,977,000
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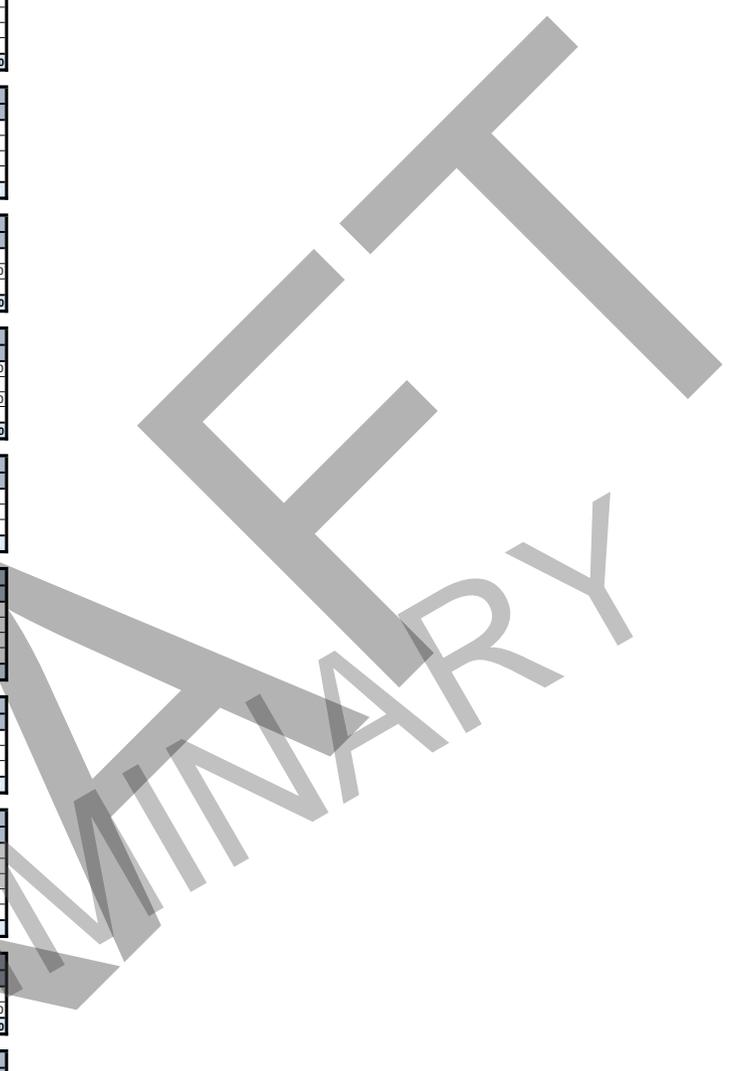
Construction Engineering (10%)	\$2,210,000
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Subtotal	\$28,283,000
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Inflation (30%)	\$8,484,900
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Project Total (2030 Dollars)	\$36,768,000
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Estimate completed by:



SEGMENT 1 CONCEPT C - OVERALL

SEGMENT 1 CONCEPT C - RANGE 1	
Construction Subtotal	\$7,204,000
Contingency (30%)	\$2,161,000
Construction Total	\$9,365,000
Right-of-Way	\$0
Engineering (18%)	\$1,686,000
Construction Engineering (10%)	\$937,000
Project Subtotal	\$11,988,000
Inflation (30%)	\$3,596,400
Subtotal	\$15,584,000
SEGMENT 1 CONCEPT C - RANGE 2	
Construction Subtotal	\$1,690,000
Contingency (30%)	\$507,000
Construction Total	\$2,197,000
Right-of-Way	\$0
Engineering (18%)	\$395,000
Construction Engineering (10%)	\$220,000
Project Subtotal	\$2,812,000
Inflation (30%)	\$843,600
Subtotal	\$3,656,000
SEGMENT 1 CONCEPT C - RANGE 3	
Construction Subtotal	\$14,515,000
Contingency (30%)	\$4,355,000
Construction Total	\$18,870,000
Right-of-Way	\$0
Engineering (18%)	\$3,397,000
Construction Engineering (10%)	\$1,887,000
Project Subtotal	\$24,154,000
Inflation (30%)	\$7,246,200
Subtotal	\$31,400,000
SEGMENT 1 CONCEPT C - RANGE 4	
Construction Subtotal	\$10,683,000
Contingency (30%)	\$3,205,000
Construction Total	\$13,888,000
Right-of-Way	\$0
Engineering (18%)	\$2,500,000
Construction Engineering (10%)	\$1,389,000
Project Subtotal	\$17,777,000
Inflation (30%)	\$5,333,100
Subtotal	\$23,110,000
SEGMENT 1 - OVERALL	
SEGMENT 1 CONCEPT C - RANGE 1	\$15,584,000
SEGMENT 1 CONCEPT C - RANGE 2	\$3,656,000
SEGMENT 1 CONCEPT C - RANGE 3	\$31,400,000
SEGMENT 1 CONCEPT C - RANGE 4	\$23,110,000
Total - Segment 1 - Overall	\$73,750,000

Construction w/ Contingency w/out Inflation:
\$56,731,000

Estimate completed by:



SEGMENT 1 CONCEPT C - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,600	SY	\$20.00	\$32,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	4,300	CY	\$40.00	\$172,000.00
EMBANKMENT	3,700	CY	\$45.00	\$166,500.00
GUARDRAIL	1,000	FT	\$22.00	\$22,000.00
MEDIAN BARRIER	1,600	FT	\$120.00	\$192,000.00
CURB AND GUTTER	1,600	FT	\$42.00	\$67,200.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	13,300	SF	\$13.00	\$172,900.00
Roadway Subtotal				\$824,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	150,000	EACH	\$1.00	\$150,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$85,000.00	\$85,000.00
SEEDING AND MULCHING	25,000	SY	\$2.00	\$50,000.00
Erosion Control Subtotal				\$310,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,400	FT	\$300.00	\$720,000.00
UNDERDRAINS	11,200	FT	\$15.00	\$168,000.00
Drainage Subtotal				\$888,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	15,600	SY	\$100.00	\$1,560,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	8,900	SY	\$54.00	\$480,600.00
SHARED USE PATH	500	SY	\$42.00	\$21,000.00
Pavement Subtotal				\$2,061,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.45	MILE	\$250,000.00	\$112,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.45	MILE	\$30,000.00	\$13,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$126,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	2400	FT	\$100.00	\$240,000.00
Traffic Control - Traffic Signal Subtotal				\$540,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	4,500	SF	\$90.00	\$405,000.00
BRIDGE	6,700	SF	\$220.00	\$1,474,000.00
Structures Subtotal				\$1,879,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$75,000.00	\$75,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$300,000.00	\$300,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$575,000.00

Project Summary	Subtotal
Roadway	\$824,600
Erosion Control	\$310,000
Drainage	\$888,000
Pavement	\$2,061,600
Traffic Control - Signing and Pavement Marking	\$126,000
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$540,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,879,000
Incidentals	\$575,000
Total	\$7,204,000

Contingency (30%)	\$2,161,000	\$1,873,000.00	20%
		\$1,404,750.00	15%
Subtotal	\$9,365,000	\$936,500.00	10%
		\$468,250.00	5%
		\$93,650.00	1%

Right-of-Way	\$0
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Engineering (18%)	\$1,686,000
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Construction Engineering (10%)	\$937,000
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Subtotal	\$11,988,000
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Inflation (30%)	\$3,596,400
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Project Total (2030 Dollars)	\$15,584,000
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Estimate completed by:



SEGMENT 1 CONCEPT C - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,700	SY	\$20.00	\$34,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,500	CY	\$40.00	\$100,000.00
EMBANKMENT	1,200	CY	\$45.00	\$54,000.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER	600	FT	\$120.00	\$72,000.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	2,500	SF	\$13.00	\$32,500.00
Roadway Subtotal				\$292,500.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	35,000	EACH	\$1.00	\$35,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$25,000.00	\$25,000.00
SEEDING AND MULCHING	3,900	SY	\$2.00	\$7,800.00
Erosion Control Subtotal				\$72,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	600	FT	\$300.00	\$180,000.00
UNDERDRAINS	3,600	FT	\$15.00	\$54,000.00
Drainage Subtotal				\$234,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	4,200	SY	\$145.00	\$609,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	6,000	SY	\$54.00	\$324,000.00
SHARED USE PATH	500	SY	\$42.00	\$21,000.00
Pavement Subtotal				\$954,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.11	MILE	\$250,000.00	\$27,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.11	MILE	\$30,000.00	\$3,300.00
Traffic Control - Signing and Pavement Marking Subtotal				\$30,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	600	FT	\$100.00	\$60,000.00
Traffic Control - Traffic Signal Subtotal				\$60,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$20,000.00	\$20,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$115,000.00	\$115,000.00
MOBILIZATION	1	LUMP	\$100,000.00	\$100,000.00
Miscellaneous Subtotal				\$235,000.00

Project Summary	Subtotal
Roadway	\$292,500
Erosion Control	\$72,800
Drainage	\$234,000
Pavement	\$954,000
Traffic Control - Signing and Pavement Marking	\$30,800
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$60,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$235,000
Total	\$1,879,000

Contingency (30%)	\$564,000	\$488,600.00	20%
		\$366,450.00	15%
Subtotal	\$2,443,000	\$244,300.00	10%
		\$122,150.00	5%

Right-of-Way	\$0	\$24,430.00	1%
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Engineering (18%)	\$440,000
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Construction Engineering (10%)	\$244,000
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Subtotal	\$3,127,000
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Inflation (30%)	\$938,100
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Project Total (2030 Dollars)	\$4,065,000
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Estimate completed by:



SEGMENT 1 CONCEPT C - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	8,300	SY	\$20.00	\$166,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	8,200	CY	\$40.00	\$328,000.00
EMBANKMENT	8,400	CY	\$45.00	\$378,000.00
GUARDRAIL	1,700	FT	\$22.00	\$37,400.00
MEDIAN BARRIER	1,100	FT	\$120.00	\$132,000.00
CURB AND GUTTER	2,200	FT	\$42.00	\$92,400.00
CONCRETE MEDIAN	600	SY	\$100.00	\$60,000.00
CONCRETE WALK	21,100	SF	\$13.00	\$274,300.00
Roadway Subtotal				\$1,468,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	330,000	EACH	\$1.00	\$330,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$165,000.00	\$165,000.00
SEEDING AND MULCHING	50,000	SY	\$2.00	\$100,000.00
Erosion Control Subtotal				\$635,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,000	FT	\$300.00	\$1,500,000.00
UNDERDRAINS	26,800	FT	\$15.00	\$402,000.00
Drainage Subtotal				\$1,902,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	32,900	SY	\$145.00	\$4,770,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	21,700	SY	\$54.00	\$1,171,800.00
SHARED USE PATH	3,400	SY	\$42.00	\$142,800.00
Pavement Subtotal				\$6,085,100.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.95	MILE	\$250,000.00	\$237,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.95	MILE	\$30,000.00	\$28,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$266,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.95	MILE	\$170,000.00	\$161,500.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$584,500.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	5000	FT	\$100.00	\$500,000.00
Traffic Control - Traffic Signal Subtotal				\$800,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	10,200	SF	\$90.00	\$918,000.00
BRIDGE	10,600	SF	\$220.00	\$2,332,000.00
Structures Subtotal				\$3,250,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$105,000.00	\$105,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$500,000.00	\$500,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,405,000.00

Project Summary	Subtotal
Roadway	\$1,468,100
Erosion Control	\$635,000
Drainage	\$1,902,000
Pavement	\$6,085,100
Traffic Control - Signing and Pavement Marking	\$266,000
Traffic Signal and Surveillance	\$584,500
Roadway Lighting	\$800,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,250,000
Incidentals	\$1,405,000
Total	\$16,396,000

Contingency (30%)	\$4,919,000	\$4,263,000.00	20%
		\$3,197,250.00	15%
		\$2,131,500.00	10%
		\$1,065,750.00	5%
		\$213,150.00	1%
Subtotal	\$21,315,000		

Right-of-Way	\$0
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Engineering (18%)	\$3,837,000
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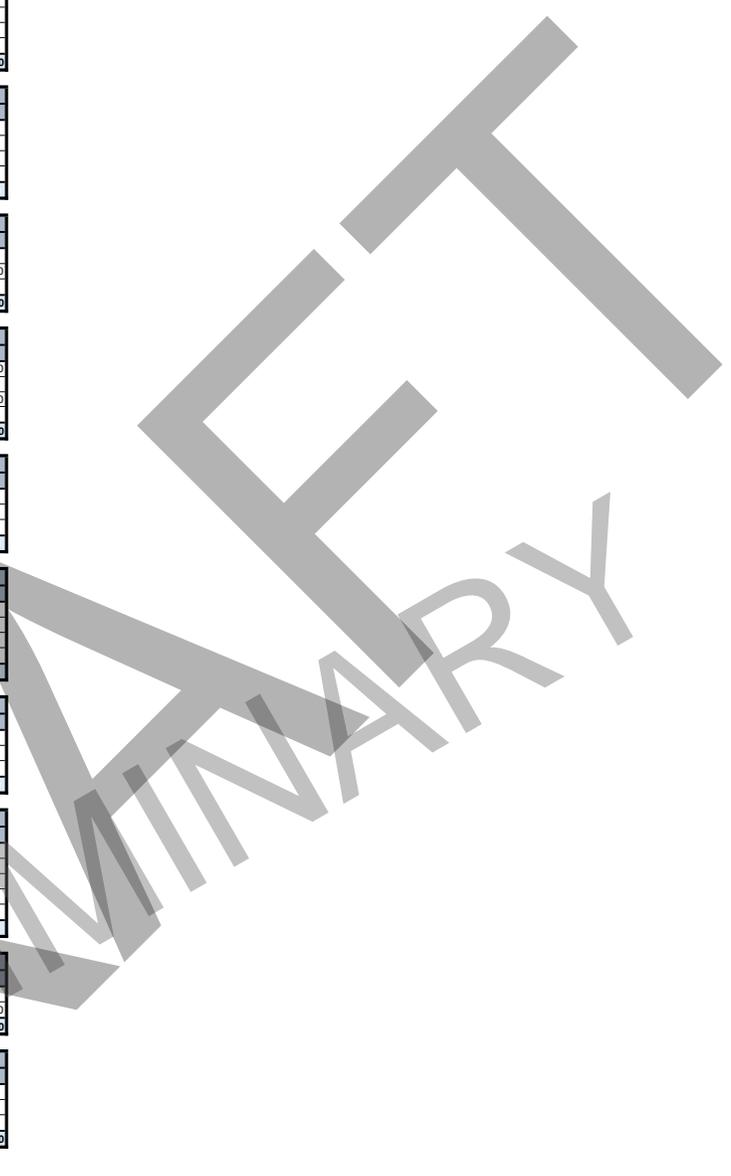
Construction Engineering (10%)	\$2,132,000
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Subtotal	\$27,284,000
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Inflation (30%)	\$8,185,200
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Project Total (2030 Dollars)	\$35,469,000
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Estimate completed by:



SEGMENT 1 CONCEPT C - RANGE 4
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	6,600	SY	\$20.00	\$132,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	7,800	CY	\$40.00	\$312,000.00
EMBANKMENT	6,900	CY	\$45.00	\$310,500.00
GUARDRAIL	400	FT	\$22.00	\$8,800.00
MEDIAN BARRIER	2,800	FT	\$120.00	\$336,000.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	400	SY	\$100.00	\$40,000.00
CONCRETE WALK	3,100	SF	\$13.00	\$40,300.00
Roadway Subtotal				\$1,199,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	240,000	EACH	\$1.00	\$240,000.00
EROSION CONTROL PLAN	1	LUMP	\$35,000.00	\$35,000.00
BMPs	1	LUMP	\$120,000.00	\$120,000.00
SEEDING AND MULCHING	30,000	SY	\$2.00	\$60,000.00
Erosion Control Subtotal				\$455,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	5,200	FT	\$300.00	\$1,560,000.00
UNDERDRAINS	30,600	FT	\$15.00	\$459,000.00
Drainage Subtotal				\$2,139,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	28,800	SY	\$145.00	\$4,176,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	22,300	SY	\$54.00	\$1,204,200.00
SHARED USE PATH	3,400	SY	\$42.00	\$142,800.00
Pavement Subtotal				\$5,523,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.98	MILE	\$250,000.00	\$245,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.98	MILE	\$30,000.00	\$29,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$274,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0.5	EACH	\$780,000.00	\$390,000.00
FIBER OPTIC COMMUNICATION	1.00	MILE	\$170,000.00	\$170,000.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$983,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	5200	FT	\$100.00	\$520,000.00
Traffic Control - Traffic Signal Subtotal				\$520,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$85,000.00	\$85,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$400,000.00	\$400,000.00
MOBILIZATION	1	LUMP	\$600,000.00	\$600,000.00
Miscellaneous Subtotal				\$1,085,000.00

Project Summary	Subtotal
Roadway	\$1,199,600
Erosion Control	\$455,000
Drainage	\$2,139,000
Pavement	\$5,523,000
Traffic Control - Signing and Pavement Marking	\$274,400
Traffic Signal and Surveillance	\$983,000
Roadway Lighting	\$520,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$1,085,000
Total	\$12,179,000

Contingency (30%)	\$3,654,000	\$3,166,600.00	20%
		\$2,374,950.00	15%
Subtotal	\$15,833,000	\$1,583,300.00	10%
		\$791,650.00	5%
Right-of-Way	\$0	\$158,330.00	1%

Engineering (18%)	\$2,850,000
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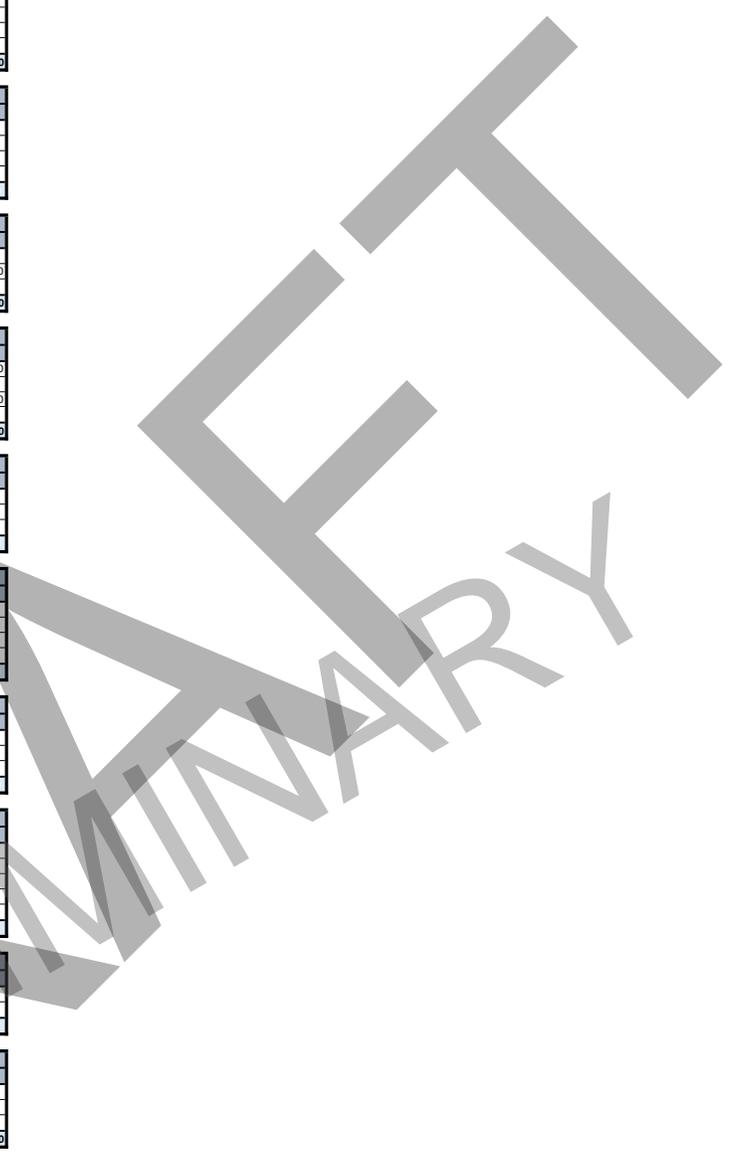
Construction Engineering (10%)	\$1,583,000
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Subtotal	\$20,266,000
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Inflation (30%)	\$6,079,800
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Project Total (2030 Dollars)	\$26,346,000
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Estimate completed by:

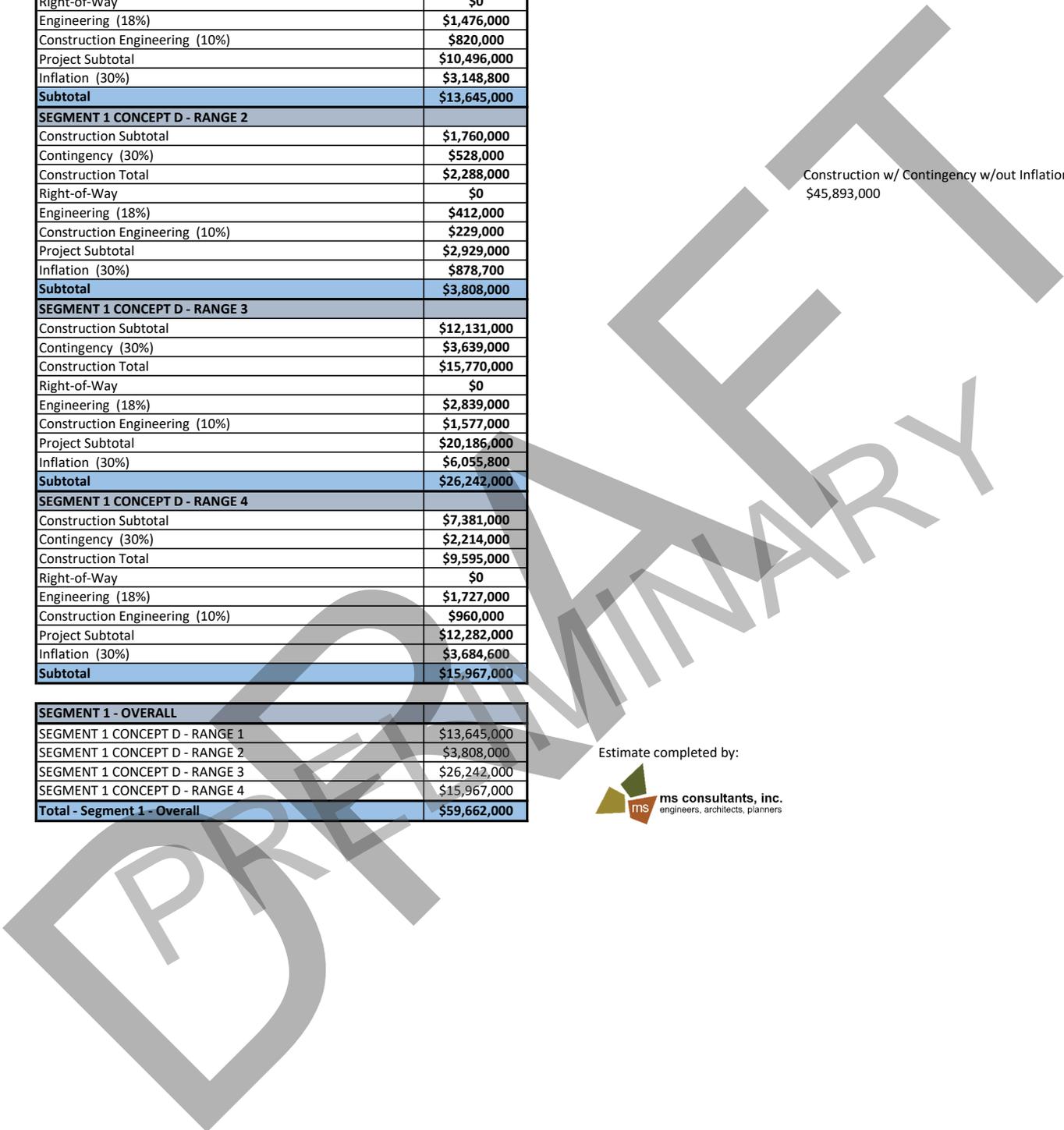


SEGMENT 1 CONCEPT D - OVERALL

SEGMENT 1 CONCEPT D - RANGE 1	
Construction Subtotal	\$6,308,000
Contingency (30%)	\$1,892,000
Construction Total	\$8,200,000
Right-of-Way	\$0
Engineering (18%)	\$1,476,000
Construction Engineering (10%)	\$820,000
Project Subtotal	\$10,496,000
Inflation (30%)	\$3,148,800
Subtotal	\$13,645,000
SEGMENT 1 CONCEPT D - RANGE 2	
Construction Subtotal	\$1,760,000
Contingency (30%)	\$528,000
Construction Total	\$2,288,000
Right-of-Way	\$0
Engineering (18%)	\$412,000
Construction Engineering (10%)	\$229,000
Project Subtotal	\$2,929,000
Inflation (30%)	\$878,700
Subtotal	\$3,808,000
SEGMENT 1 CONCEPT D - RANGE 3	
Construction Subtotal	\$12,131,000
Contingency (30%)	\$3,639,000
Construction Total	\$15,770,000
Right-of-Way	\$0
Engineering (18%)	\$2,839,000
Construction Engineering (10%)	\$1,577,000
Project Subtotal	\$20,186,000
Inflation (30%)	\$6,055,800
Subtotal	\$26,242,000
SEGMENT 1 CONCEPT D - RANGE 4	
Construction Subtotal	\$7,381,000
Contingency (30%)	\$2,214,000
Construction Total	\$9,595,000
Right-of-Way	\$0
Engineering (18%)	\$1,727,000
Construction Engineering (10%)	\$960,000
Project Subtotal	\$12,282,000
Inflation (30%)	\$3,684,600
Subtotal	\$15,967,000
SEGMENT 1 - OVERALL	
SEGMENT 1 CONCEPT D - RANGE 1	\$13,645,000
SEGMENT 1 CONCEPT D - RANGE 2	\$3,808,000
SEGMENT 1 CONCEPT D - RANGE 3	\$26,242,000
SEGMENT 1 CONCEPT D - RANGE 4	\$15,967,000
Total - Segment 1 - Overall	\$59,662,000

Construction w/ Contingency w/out Inflation:
\$45,893,000

Estimate completed by:



SEGMENT 1 CONCEPT D - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,600	SY	\$20.00	\$32,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,600	CY	\$40.00	\$104,000.00
EMBANKMENT	1,400	CY	\$45.00	\$63,000.00
GUARDRAIL	450	FT	\$22.00	\$9,900.00
MEDIAN BARRIER	800	FT	\$120.00	\$96,000.00
CURB AND GUTTER	3,200	FT	\$42.00	\$134,400.00
CONCRETE MEDIAN	700	SY	\$100.00	\$70,000.00
CONCRETE WALK	13,200	SF	\$13.00	\$171,600.00
Roadway Subtotal				\$680,900.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	150,000	EACH	\$1.00	\$150,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$85,000.00	\$85,000.00
SEEDING AND MULCHING	14,000	SY	\$2.00	\$28,000.00
Erosion Control Subtotal				\$288,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,400	FT	\$300.00	\$720,000.00
UNDERDRAINS	9,600	FT	\$15.00	\$144,000.00
Drainage Subtotal				\$864,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	13,200	SY	\$145.00	\$1,914,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	15,000	SY	\$54.00	\$810,000.00
SHARED USE PATH	500	SY	\$42.00	\$21,000.00
Pavement Subtotal				\$2,745,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.30	MILE	\$250,000.00	\$75,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.30	MILE	\$30,000.00	\$9,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$84,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.30	MILE	\$170,000.00	\$51,000.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$474,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	1600	FT	\$100.00	\$160,000.00
Traffic Control - Traffic Signal Subtotal				\$160,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	3,300	SF	\$90.00	\$297,000.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$297,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$65,000.00	\$65,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$250,000.00	\$250,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$715,000.00

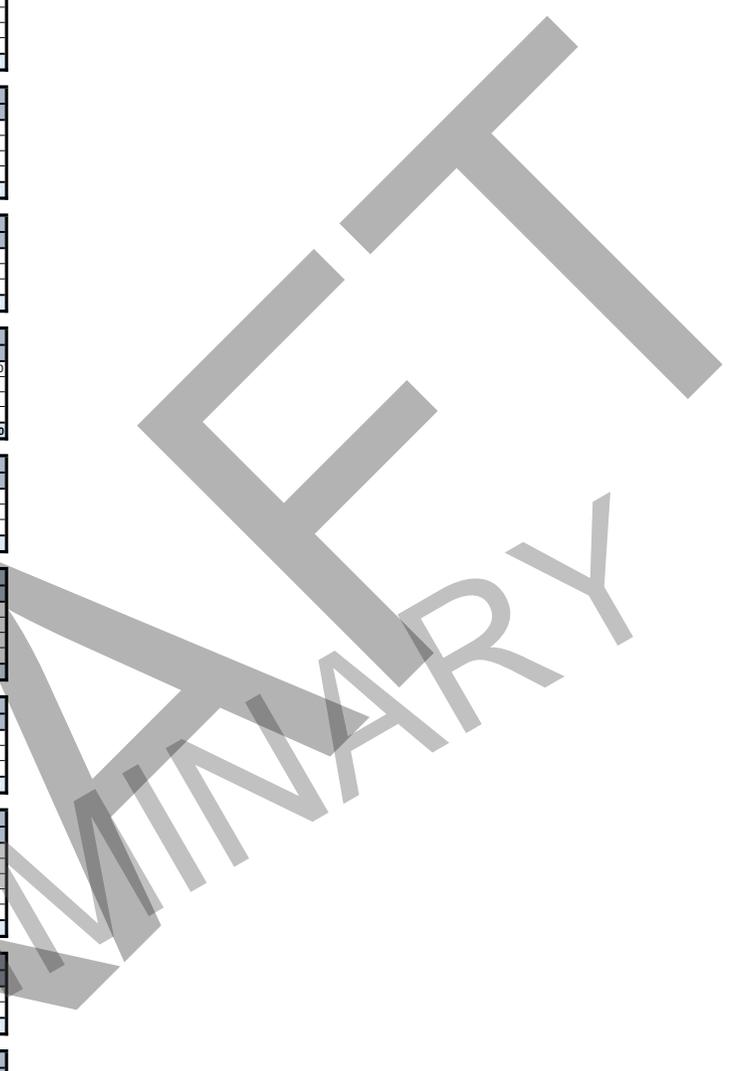
Project Summary	Subtotal
Roadway	\$680,900
Erosion Control	\$288,000
Drainage	\$864,000
Pavement	\$2,745,000
Traffic Control - Signing and Pavement Marking	\$84,000
Traffic Signal and Surveillance	\$474,000
Roadway Lighting	\$160,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$297,000
Incidentals	\$715,000
Total	\$6,308,000

Contingency (30%)	\$1,892,000	\$1,640,000.00	20%
		\$1,230,000.00	15%
Subtotal	\$8,200,000	\$820,000.00	10%
		\$410,000.00	5%
Right-of-Way	\$0	\$82,000.00	1%

Engineering (18%)	\$1,476,000
Construction Engineering (10%)	\$820,000
Subtotal	\$10,496,000

Inflation (30%)	\$3,148,800
Project Total (2030 Dollars)	\$13,645,000

Estimate completed by:



SEGMENT 1 CONCEPT D - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,200	SY	\$20.00	\$24,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	1,000	CY	\$40.00	\$40,000.00
EMBANKMENT	600	CY	\$45.00	\$27,000.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER	600	FT	\$120.00	\$72,000.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	300	SY	\$100.00	\$30,000.00
CONCRETE WALK	1,700	SF	\$13.00	\$22,100.00
Roadway Subtotal				\$215,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	35,000	EACH	\$1.00	\$35,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$25,000.00	\$25,000.00
SEEDING AND MULCHING	3,900	SY	\$2.00	\$7,800.00
Erosion Control Subtotal				\$72,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	600	FT	\$300.00	\$180,000.00
UNDERDRAINS	3,600	FT	\$15.00	\$54,000.00
Drainage Subtotal				\$234,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	3,800	SY	\$145.00	\$551,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	6,300	SY	\$54.00	\$340,200.00
SHARED USE PATH	500	SY	\$42.00	\$21,000.00
Pavement Subtotal				\$912,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.11	MILE	\$250,000.00	\$27,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.11	MILE	\$30,000.00	\$3,300.00
Traffic Control - Signing and Pavement Marking Subtotal				\$30,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	600	FT	\$100.00	\$60,000.00
Traffic Control - Traffic Signal Subtotal				\$60,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$20,000.00	\$20,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$115,000.00	\$115,000.00
MOBILIZATION	1	LUMP	\$100,000.00	\$100,000.00
Miscellaneous Subtotal				\$235,000.00

Project Summary	Subtotal
Roadway	\$215,100
Erosion Control	\$72,800
Drainage	\$234,000
Pavement	\$912,200
Traffic Control - Signing and Pavement Marking	\$30,800
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$60,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$235,000
Total	\$1,760,000

Contingency (30%)	\$528,000	\$457,600.00	20%
		\$343,200.00	15%
Subtotal	\$2,288,000	\$228,800.00	10%
		\$114,400.00	5%
Right-of-Way	\$0	\$22,880.00	1%

Engineering (18%)	\$412,000
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Construction Engineering (10%)	\$229,000
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Subtotal	\$2,929,000
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Inflation (30%)	\$878,700
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Project Total (2030 Dollars)	\$3,808,000
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Estimate completed by:



SEGMENT 1 CONCEPT D - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	4,300	SY	\$20.00	\$86,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	5,300	CY	\$40.00	\$212,000.00
EMBANKMENT	4,700	CY	\$45.00	\$211,500.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	800	FT	\$120.00	\$96,000.00
CURB AND GUTTER	8,500	FT	\$42.00	\$357,000.00
CONCRETE MEDIAN	1,700	SY	\$100.00	\$170,000.00
CONCRETE WALK	17,700	SF	\$13.00	\$230,100.00
Roadway Subtotal				\$1,378,000.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	300,000	EACH	\$1.00	\$300,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$150,000.00	\$150,000.00
SEEDING AND MULCHING	40,000	SY	\$2.00	\$80,000.00
Erosion Control Subtotal				\$570,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,000	FT	\$300.00	\$1,200,000.00
UNDERDRAINS	20,400	FT	\$15.00	\$306,000.00
Drainage Subtotal				\$1,506,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	23,200	SY	\$145.00	\$3,364,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	30,000	SY	\$54.00	\$1,620,000.00
SHARED USE PATH	3,500	SY	\$42.00	\$147,000.00
Pavement Subtotal				\$5,131,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.64	MILE	\$250,000.00	\$160,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.64	MILE	\$30,000.00	\$19,200.00
Traffic Control - Signing and Pavement Marking Subtotal				\$179,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	0.64	MILE	\$170,000.00	\$108,800.00
CCTV	3	EACH	\$123,000.00	\$369,000.00
Traffic Control - Traffic Signal Subtotal				\$1,257,800.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3400	FT	\$100.00	\$340,000.00
Traffic Control - Traffic Signal Subtotal				\$340,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	5,100	SF	\$90.00	\$459,000.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$459,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$110,000.00	\$110,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$400,000.00	\$400,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,310,000.00

Project Summary	Subtotal
Roadway	\$1,378,000
Erosion Control	\$570,000
Drainage	\$1,506,000
Pavement	\$5,131,000
Traffic Control - Signing and Pavement Marking	\$179,200
Traffic Signal and Surveillance	\$1,257,800
Roadway Lighting	\$340,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$459,000
Incidentals	\$1,310,000
Total	\$12,131,000

Contingency (30%)	\$3,639,000	\$3,154,000.00	20%
		\$2,365,500.00	15%
Subtotal	\$15,770,000	\$1,577,000.00	10%
		\$788,500.00	5%
Right-of-Way	\$0	\$157,700.00	1%
Engineering (18%)	\$2,839,000		
Construction Engineering (10%)	\$1,577,000		
Subtotal	\$20,186,000		
Inflation (30%)	\$6,055,800		
Project Total (2030 Dollars)	\$26,242,000		

Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 1 CONCEPT D - RANGE 4
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	6,400	SY	\$20.00	\$128,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	4,900	CY	\$40.00	\$196,000.00
EMBANKMENT	4,400	CY	\$45.00	\$198,000.00
GUARDRAIL	400	FT	\$22.00	\$8,800.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER	4,900	FT	\$42.00	\$205,800.00
CONCRETE MEDIAN	2,200	SY	\$100.00	\$220,000.00
CONCRETE WALK	3,100	SF	\$13.00	\$40,300.00
Roadway Subtotal				\$1,016,900.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	150,000	EACH	\$1.00	\$150,000.00
EROSION CONTROL PLAN	1	LUMP	\$30,000.00	\$30,000.00
BMPs	1	LUMP	\$100,000.00	\$100,000.00
SEEDING AND MULCHING	24,300	SY	\$2.00	\$48,600.00
Erosion Control Subtotal				\$328,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM		FT	\$300.00	\$0.00
UNDERDRAINS	18,600	FT	\$15.00	\$279,000.00
Drainage Subtotal				\$399,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	17,400	SY	\$145.00	\$2,523,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	22,500	SY	\$54.00	\$1,215,000.00
SHARED USE PATH	4,400	SY	\$42.00	\$184,800.00
Pavement Subtotal				\$3,922,800.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.59	MILE	\$250,000.00	\$147,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.59	MILE	\$30,000.00	\$17,700.00
Traffic Control - Signing and Pavement Marking Subtotal				\$165,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.59	MILE	\$170,000.00	\$100,300.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$523,300.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3100	FT	\$100.00	\$310,000.00
Traffic Control - Traffic Signal Subtotal				\$310,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$65,000.00	\$65,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$250,000.00	\$250,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$715,000.00

Project Summary	Subtotal
Roadway	\$1,016,900
Erosion Control	\$328,600
Drainage	\$399,000
Pavement	\$3,922,800
Traffic Control - Signing and Pavement Marking	\$165,200
Traffic Signal and Surveillance	\$523,300
Roadway Lighting	\$310,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$715,000
Total	\$7,381,000

Contingency (30%)	\$2,214,000	\$1,919,000.00	20%
		\$1,439,250.00	15%
Subtotal	\$9,595,000	\$959,500.00	10%
		\$479,750.00	5%
Right-of-Way	\$0	\$95,950.00	1%
Engineering (18%)	\$1,727,000		
Construction Engineering (10%)	\$960,000		
Subtotal	\$12,282,000		
Inflation (30%)	\$3,684,600		
Project Total (2030 Dollars)	\$15,967,000		

Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 2 CONCEPT A - OVERALL

SEGMENT 2 CONCEPT A - RANGE 1	
Construction Subtotal	\$30,920,000
Contingency (30%)	\$9,276,000
Construction Total	\$40,196,000
Right-of-Way	\$0
Engineering (18%)	\$7,235,000
Construction Engineering (10%)	\$4,020,000
Project Subtotal	\$51,451,000
Inflation (30%)	\$15,435,300
Subtotal	\$66,886,000
SEGMENT 2 CONCEPT A - RANGE 2	
Construction Subtotal	\$14,368,000
Contingency (30%)	\$4,310,000
Construction Total	\$18,678,000
Right-of-Way	\$0
Engineering (18%)	\$3,362,000
Construction Engineering (10%)	\$1,868,000
Project Subtotal	\$23,908,000
Inflation (30%)	\$7,172,400
Subtotal	\$31,080,000
SEGMENT 2 CONCEPT A - RANGE 3	
Construction Subtotal	\$35,738,000
Contingency (30%)	\$10,721,000
Construction Total	\$46,459,000
Right-of-Way	\$0
Engineering (18%)	\$8,363,000
Construction Engineering (10%)	\$4,646,000
Project Subtotal	\$59,468,000
Inflation (30%)	\$17,840,400
Subtotal	\$77,308,000
SEGMENT 2 - OVERALL	
SEGMENT 2 CONCEPT A - RANGE 1	\$66,886,000
SEGMENT 2 CONCEPT A - RANGE 2	\$31,080,000
SEGMENT 2 CONCEPT A - RANGE 3	\$77,308,000
Total - Segment 2 - Overall	\$175,274,000

Construction w/ Contingency w/out Inflation
\$134,827,000

Estimate completed by:



PRELIMINARY

SEGMENT 2 CONCEPT A - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	32,500	SY	\$20.00	\$650,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	18,400	CY	\$40.00	\$736,000.00
EMBANKMENT	25,200	CY	\$45.00	\$1,134,000.00
GUARDRAIL	2,000	FT	\$22.00	\$44,000.00
MEDIAN BARRIER	4,300	FT	\$120.00	\$516,000.00
CURB AND GUTTER	7,900	FT	\$42.00	\$331,800.00
CONCRETE MEDIAN	2,000	SY	\$100.00	\$200,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,661,800.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	450,000	EACH	\$1.00	\$450,000.00
EROSION CONTROL PLAN	1	LUMP	\$100,000.00	\$100,000.00
BMPs	1	LUMP	\$225,000.00	\$225,000.00
SEEDING AND MULCHING	97,300	SY	\$2.00	\$194,600.00
Erosion Control Subtotal				\$969,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	11,000	FT	\$300.00	\$3,300,000.00
UNDERDRAINS	66,200	FT	\$15.00	\$993,000.00
Drainage Subtotal				\$4,593,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	109,100	SY	\$100.00	\$10,910,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	12,800	SY	\$54.00	\$691,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$11,601,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.85	MILE	\$250,000.00	\$212,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.85	MILE	\$30,000.00	\$25,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$238,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.85	MILE	\$170,000.00	\$144,500.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$990,500.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	18,000	SF	\$90.00	\$1,260,000.00
BRIDGE	25,500	SF	\$220.00	\$5,610,000.00
Structures Subtotal				\$6,870,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$225,300.00	\$225,300.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$70,800.00	\$70,800.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,496,100.00

Project Summary	Subtotal
Roadway	\$3,661,800
Erosion Control	\$969,600
Drainage	\$4,593,000
Pavement	\$11,601,200
Traffic Control - Signing and Pavement Marking	\$238,000
Traffic Signal and Surveillance	\$990,500
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$6,870,000
Incidentals	\$1,496,100
Total	\$30,920,000

Contingency (30%)	\$9,276,000
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Subtotal	\$40,196,000
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Right-of-Way	\$0
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Engineering (18%)	\$7,235,000
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Construction Engineering (10%)	\$4,020,000
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Subtotal	\$51,451,000
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Inflation (30%)	\$15,435,300
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Project Total (2030 Dollars)	\$66,886,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT A - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	20,500	SY	\$20.00	\$410,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	2,900	CY	\$40.00	\$116,000.00
EMBANKMENT	21,300	CY	\$45.00	\$958,500.00
GUARDRAIL	2,500	FT	\$22.00	\$55,000.00
MEDIAN BARRIER	3,900	FT	\$120.00	\$468,000.00
CURB AND GUTTER	2,600	FT	\$42.00	\$109,200.00
CONCRETE MEDIAN	1,200	SY	\$100.00	\$120,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,286,700.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	200,000	EACH	\$1.00	\$200,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$100,000.00	\$100,000.00
SEEDING AND MULCHING	34,800	SY	\$2.00	\$69,600.00
Erosion Control Subtotal				\$409,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	5,400	FT	\$300.00	\$1,620,000.00
UNDERDRAINS	36,400	FT	\$15.00	\$546,000.00
Drainage Subtotal				\$2,466,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	62,500	SY	\$100.00	\$6,250,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	1,400	SY	\$54.00	\$75,600.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$6,325,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.97	MILE	\$250,000.00	\$242,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.97	MILE	\$30,000.00	\$29,100.00
Traffic Control - Signing and Pavement Marking Subtotal				\$271,600.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	7,600	SF	\$220.00	\$1,672,000.00
Structures Subtotal				\$1,672,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$104,300.00	\$104,300.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$32,600.00	\$32,600.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$936,900.00

Project Summary	Subtotal
Roadway	\$2,286,700
Erosion Control	\$409,600
Drainage	\$2,466,000
Pavement	\$6,325,600
Traffic Control - Signing and Pavement Marking	\$271,600
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,672,000
Incidentals	\$936,900
Total	\$14,368,000

Contingency (30%)	\$4,310,000
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Subtotal	\$18,678,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,362,000
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Construction Engineering (10%)	\$1,868,000
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Subtotal	\$23,908,000
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Inflation (30%)	\$7,172,400
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Project Total (2030 Dollars)	\$31,080,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT A - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	21,200	SY	\$20.00	\$424,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	20,300	CY	\$40.00	\$812,000.00
EMBANKMENT	38,800	CY	\$45.00	\$1,746,000.00
GUARDRAIL	2,200	FT	\$22.00	\$48,400.00
MEDIAN BARRIER	3,500	FT	\$120.00	\$420,000.00
CURB AND GUTTER	9,400	FT	\$42.00	\$394,800.00
CONCRETE MEDIAN	300	SY	\$100.00	\$30,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,875,200.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	600,000	EACH	\$1.00	\$600,000.00
EROSION CONTROL PLAN	1	LUMP	\$130,000.00	\$130,000.00
BMPs	1	LUMP	\$300,000.00	\$300,000.00
SEEDING AND MULCHING	115,800	SY	\$2.00	\$231,600.00
Erosion Control Subtotal				\$1,261,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	18,400	FT	\$300.00	\$5,520,000.00
UNDERDRAINS	57,000	FT	\$15.00	\$855,000.00
Drainage Subtotal				\$6,375,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	104,400	SY	\$100.00	\$10,440,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	2,100	SY	\$54.00	\$113,400.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$10,553,400.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.38	MILE	\$250,000.00	\$94,696.97
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.38	MILE	\$30,000.00	\$11,363.64
Traffic Control - Signing and Pavement Marking Subtotal				\$106,060.61

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.38	MILE	\$170,000.00	\$64,393.94
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$487,393.94

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	50,000	SF	\$220.00	\$11,000,000.00
Structures Subtotal				\$11,000,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$288,500.00	\$288,500.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$90,500.00	\$90,500.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,579,000.00

Project Summary	Subtotal
Roadway	\$3,875,200
Erosion Control	\$1,261,600
Drainage	\$6,375,000
Pavement	\$10,553,400
Traffic Control - Signing and Pavement Marking	\$106,061
Traffic Signal and Surveillance	\$487,394
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$11,000,000
Incidentals	\$1,579,000
Total	\$35,738,000

Contingency (30%)	\$10,721,000
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Subtotal	\$46,459,000
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Right-of-Way	\$0
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Engineering (18%)	\$8,363,000
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Construction Engineering (10%)	\$4,646,000
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Subtotal	\$59,468,000
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Inflation (30%)	\$17,840,400
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Project Total (2030 Dollars)	\$77,308,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT B - OVERALL

SEGMENT 2 CONCEPT B - RANGE 1		Quantity
Construction Subtotal		\$35,036,000
Contingency (30%)		\$10,511,000
Construction Total		\$45,547,000
Right-of-Way		\$0
Engineering (18%)		\$8,198,000
Construction Engineering (10%)		\$4,555,000
Project Subtotal		\$58,300,000
Inflation (30%)		\$17,490,000
Subtotal		\$75,790,000
SEGMENT 2 CONCEPT B - RANGE 2		
Construction Subtotal		\$14,872,000
Contingency (30%)		\$4,462,000
Construction Total		\$19,334,000
Right-of-Way		\$0
Engineering (18%)		\$3,480,000
Construction Engineering (10%)		\$1,933,000
Project Subtotal		\$24,747,000
Inflation (30%)		\$7,424,100
Subtotal		\$32,171,000
SEGMENT 2 CONCEPT B - RANGE 3		
Construction Subtotal		\$23,498,000
Contingency (30%)		\$7,049,000
Construction Total		\$30,547,000
Right-of-Way		\$0
Engineering (18%)		\$5,498,000
Construction Engineering (10%)		\$3,055,000
Project Subtotal		\$39,100,000
Inflation (30%)		\$11,730,000
Subtotal		\$50,830,000
SEGMENT 2 - OVERALL		
SEGMENT 2 CONCEPT B - RANGE 1		\$75,790,000
SEGMENT 2 CONCEPT B - RANGE 2		\$32,171,000
SEGMENT 2 CONCEPT B - RANGE 3		\$50,830,000
Total - Segment 2 - Overall		\$158,791,000

Construction w/ Contingency w/out Inflation
\$122,147,000

Estimate completed by:



PRELIMINARY

SEGMENT 2 CONCEPT B - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	44,100	SY	\$20.00	\$882,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	15,900	CY	\$40.00	\$636,000.00
EMBANKMENT	13,100	CY	\$45.00	\$589,500.00
GUARDRAIL	2,000	FT	\$22.00	\$44,000.00
MEDIAN BARRIER	5,800	FT	\$120.00	\$696,000.00
CURB AND GUTTER	14,400	FT	\$42.00	\$604,800.00
CONCRETE MEDIAN	4,300	SY	\$100.00	\$430,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,932,300.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	550,000	EACH	\$1.00	\$550,000.00
EROSION CONTROL PLAN	1	LUMP	\$80,000.00	\$80,000.00
BMPs	1	LUMP	\$275,000.00	\$275,000.00
SEEDING AND MULCHING	113,400	SY	\$2.00	\$226,800.00
Erosion Control Subtotal				\$1,131,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	13,600	FT	\$300.00	\$4,080,000.00
UNDERDRAINS	70,600	FT	\$15.00	\$1,059,000.00
Drainage Subtotal				\$5,439,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	127,200	SY	\$100.00	\$12,720,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	16,800	SY	\$54.00	\$907,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$13,627,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.85	MILE	\$250,000.00	\$212,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.85	MILE	\$30,000.00	\$25,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$238,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	3	EACH	\$300,000.00	\$900,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.85	MILE	\$170,000.00	\$144,500.00
CCTV	3	EACH	\$123,000.00	\$369,000.00
Traffic Control - Traffic Signal Subtotal				\$1,413,500.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	2	EACH	\$300,000.00	\$600,000.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$600,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	32,300	SF	\$220.00	\$7,106,000.00
Structures Subtotal				\$7,106,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$265,500.00	\$265,500.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$83,000.00	\$83,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,548,500.00

Project Summary	Subtotal
Roadway	\$3,932,300
Erosion Control	\$1,131,800
Drainage	\$5,439,000
Pavement	\$13,627,200
Traffic Control - Signing and Pavement Marking	\$238,000
Traffic Signal and Surveillance	\$1,413,500
Roadway Lighting	\$600,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$7,106,000
Incidentals	\$1,548,500
Total	\$35,036,000

Contingency (30%)	\$10,511,000
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Subtotal	\$45,547,000
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Right-of-Way	\$0
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Engineering (18%)	\$8,198,000
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Construction Engineering (10%)	\$4,555,000
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Subtotal	\$58,300,000
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Inflation (30%)	\$17,490,000
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Project Total (2030 Dollars)	\$75,790,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT B - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	15,000	SY	\$20.00	\$300,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	1,100	CY	\$40.00	\$44,000.00
EMBANKMENT	18,900	CY	\$45.00	\$850,500.00
GUARDRAIL	2,200	FT	\$22.00	\$48,400.00
MEDIAN BARRIER	3,900	FT	\$120.00	\$468,000.00
CURB AND GUTTER	1,800	FT	\$42.00	\$75,600.00
CONCRETE MEDIAN	2,000	SY	\$100.00	\$200,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,036,500.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	250,000	EACH	\$1.00	\$250,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$125,000.00	\$125,000.00
SEEDING AND MULCHING	34,100	SY	\$2.00	\$68,200.00
Erosion Control Subtotal				\$493,200.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	7,100	FT	\$300.00	\$2,130,000.00
UNDERDRAINS	29,500	FT	\$15.00	\$442,500.00
Drainage Subtotal				\$2,872,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	65,200	SY	\$100.00	\$6,520,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	1,400	SY	\$54.00	\$75,600.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$6,595,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.97	MILE	\$250,000.00	\$242,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.97	MILE	\$30,000.00	\$29,100.00
Traffic Control - Signing and Pavement Marking Subtotal				\$271,600.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	7,600	SF	\$220.00	\$1,672,000.00
Structures Subtotal				\$1,672,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$99,700.00	\$99,700.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$31,200.00	\$31,200.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$930,900.00

Project Summary	Subtotal
Roadway	\$2,036,500
Erosion Control	\$493,200
Drainage	\$2,872,500
Pavement	\$6,595,600
Traffic Control - Signing and Pavement Marking	\$271,600
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,672,000
Incidentals	\$930,900
Total	\$14,872,000

Contingency (30%)	\$4,462,000
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Subtotal	\$19,334,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,480,000
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Construction Engineering (10%)	\$1,933,000
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Subtotal	\$24,747,000
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Inflation (30%)	\$7,424,100
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Project Total (2030 Dollars)	\$32,171,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT B - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	17,200	SY	\$20.00	\$344,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	15,200	CY	\$40.00	\$608,000.00
EMBANKMENT	26,900	CY	\$45.00	\$1,210,500.00
GUARDRAIL	2,000	FT	\$22.00	\$44,000.00
MEDIAN BARRIER	3,500	FT	\$120.00	\$420,000.00
CURB AND GUTTER	9,300	FT	\$42.00	\$390,600.00
CONCRETE MEDIAN	3,000	SY	\$100.00	\$300,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,317,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	450,000	EACH	\$1.00	\$450,000.00
EROSION CONTROL PLAN	1	LUMP	\$100,000.00	\$100,000.00
BMPs	1	LUMP	\$225,000.00	\$225,000.00
SEEDING AND MULCHING	120,800	SY	\$2.00	\$241,600.00
Erosion Control Subtotal				\$1,016,600.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	11,100	FT	\$300.00	\$3,330,000.00
UNDERDRAINS	37,500	FT	\$15.00	\$562,500.00
Drainage Subtotal				\$3,892,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	87,800	SY	\$100.00	\$8,780,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$8,780,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.38	MILE	\$250,000.00	\$95,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.38	MILE	\$30,000.00	\$11,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$106,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.38	MILE	\$170,000.00	\$64,600.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$487,600.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	18,000	SF	\$220.00	\$3,960,000.00
Structures Subtotal				\$3,960,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$181,000.00	\$181,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$56,800.00	\$56,800.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,437,800.00

Project Summary	Subtotal
Roadway	\$3,317,100
Erosion Control	\$1,016,600
Drainage	\$3,892,500
Pavement	\$8,780,000
Traffic Control - Signing and Pavement Marking	\$106,400
Traffic Signal and Surveillance	\$487,600
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,960,000
Incidentals	\$1,437,800
Total	\$23,498,000

Contingency (30%)	\$7,049,000
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Subtotal	\$30,547,000
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Right-of-Way	\$0
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Engineering (18%)	\$5,498,000
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Construction Engineering (10%)	\$3,055,000
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Subtotal	\$39,100,000
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Inflation (30%)	\$11,730,000
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Project Total (2030 Dollars)	\$50,830,000
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Estimate completed by:



SEGMENT 2 CONCEPT C - OVERALL

SEGMENT 2 CONCEPT C - RANGE 1		Quantity
Construction Subtotal		\$22,692,000
Contingency (30%)		\$6,808,000
Construction Total		\$29,500,000
Right-of-Way		\$0
Engineering (18%)		\$5,310,000
Construction Engineering (10%)		\$2,950,000
Project Subtotal		\$37,760,000
Inflation (30%)		\$11,328,000
Subtotal		\$49,088,000
SEGMENT 2 CONCEPT C - RANGE 2		
Construction Subtotal		\$12,041,000
Contingency (30%)		\$3,612,000
Construction Total		\$15,653,000
Right-of-Way		\$0
Engineering (18%)		\$2,818,000
Construction Engineering (10%)		\$1,565,000
Project Subtotal		\$20,036,000
Inflation (30%)		\$6,010,800
Subtotal		\$26,047,000
SEGMENT 2 CONCEPT C - RANGE 3		
Construction Subtotal		\$22,271,000
Contingency (30%)		\$6,681,000
Construction Total		\$28,952,000
Right-of-Way		\$0
Engineering (18%)		\$5,211,000
Construction Engineering (10%)		\$2,895,000
Project Subtotal		\$37,058,000
Inflation (30%)		\$11,117,400
Subtotal		\$48,175,000
SEGMENT 2 - OVERALL		
SEGMENT 2 CONCEPT C - RANGE 1		\$49,088,000
SEGMENT 2 CONCEPT C - RANGE 2		\$26,047,000
SEGMENT 2 CONCEPT C - RANGE 3		\$48,175,000
Total - Segment 2 - Overall		\$123,310,000

Construction w/ Contingency w/out Inflation
\$94,854,000

Estimate completed by:



PRELIMINARY

SEGMENT 2 CONCEPT C - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,100	SY	\$20.00	\$522,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	12,200	CY	\$40.00	\$488,000.00
EMBANKMENT	8,100	CY	\$45.00	\$364,500.00
GUARDRAIL	3,300	FT	\$22.00	\$72,600.00
MEDIAN BARRIER	2,400	FT	\$120.00	\$288,000.00
CURB AND GUTTER	14,600	FT	\$42.00	\$613,200.00
CONCRETE MEDIAN	4,100	SY	\$100.00	\$410,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,808,300.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	350,000	EACH	\$1.00	\$350,000.00
EROSION CONTROL PLAN	1	LUMP	\$60,000.00	\$60,000.00
BMPs	1	LUMP	\$175,000.00	\$175,000.00
SEEDING AND MULCHING	60,400	SY	\$2.00	\$120,800.00
Erosion Control Subtotal				\$705,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	11,800	FT	\$300.00	\$3,540,000.00
UNDERDRAINS	60,400	FT	\$15.00	\$906,000.00
Drainage Subtotal				\$4,746,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	83,100	SY	\$100.00	\$8,310,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	21,500	SY	\$54.00	\$1,161,000.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,471,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.85	MILE	\$250,000.00	\$212,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.85	MILE	\$30,000.00	\$25,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$238,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	4	EACH	\$300,000.00	\$1,200,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.85	MILE	\$170,000.00	\$144,500.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$1,467,500.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	8,300	SF	\$220.00	\$1,826,000.00
Structures Subtotal				\$1,826,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$174,400.00	\$174,400.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$54,700.00	\$54,700.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,429,100.00

Project Summary	Subtotal
Roadway	\$2,808,300
Erosion Control	\$705,800
Drainage	\$4,746,000
Pavement	\$9,471,000
Traffic Control - Signing and Pavement Marking	\$238,000
Traffic Signal and Surveillance	\$1,467,500
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,826,000
Incidentals	\$1,429,100
Total	\$22,692,000

Contingency (30%)	\$6,808,000
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Subtotal	\$29,500,000
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Right-of-Way	\$0
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Engineering (18%)	\$5,310,000
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Construction Engineering (10%)	\$2,950,000
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Subtotal	\$37,760,000
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Inflation (30%)	\$11,328,000
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Project Total (2030 Dollars)	\$49,088,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT C - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	28,600	SY	\$20.00	\$572,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	1,100	CY	\$40.00	\$44,000.00
EMBANKMENT	18,900	CY	\$45.00	\$850,500.00
GUARDRAIL	1,200	FT	\$22.00	\$26,400.00
MEDIAN BARRIER	3,000	FT	\$120.00	\$360,000.00
CURB AND GUTTER	1,000	FT	\$42.00	\$42,000.00
CONCRETE MEDIAN	500	SY	\$100.00	\$50,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,994,900.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	200,000	EACH	\$1.00	\$200,000.00
EROSION CONTROL PLAN	1	LUMP	\$30,000.00	\$30,000.00
BMPs	1	LUMP	\$100,000.00	\$100,000.00
SEEDING AND MULCHING	28,600	SY	\$2.00	\$57,200.00
Erosion Control Subtotal				\$387,200.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	3,900	FT	\$300.00	\$1,170,000.00
UNDERDRAINS	30,600	FT	\$15.00	\$459,000.00
Drainage Subtotal				\$1,929,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	55,700	SY	\$100.00	\$5,570,000.00
FULL-DEPTH PAVEMENT (CONCRETE)			\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	300	SY	\$54.00	\$16,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$5,586,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.87	MILE	\$250,000.00	\$217,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.87	MILE	\$30,000.00	\$26,100.00
Traffic Control - Signing and Pavement Marking Subtotal				\$243,600.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.87	MILE	\$170,000.00	\$147,900.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$993,900.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$80,800.00	\$80,800.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$25,300.00	\$25,300.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$906,100.00

Project Summary	Subtotal
Roadway	\$1,994,900
Erosion Control	\$387,200
Drainage	\$1,929,000
Pavement	\$5,586,200
Traffic Control - Signing and Pavement Marking	\$243,600
Traffic Signal and Surveillance	\$993,900
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$906,100
Total	\$12,041,000

Contingency (30%)	\$3,612,000
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Subtotal	\$15,653,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,818,000
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Construction Engineering (10%)	\$1,565,000
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Subtotal	\$20,036,000
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Inflation (30%)	\$6,010,800
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Project Total (2030 Dollars)	\$26,047,000
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Estimate completed by:



SEGMENT 2 CONCEPT C - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	17,700	SY	\$20.00	\$354,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	15,200	CY	\$40.00	\$608,000.00
EMBANKMENT	26,900	CY	\$45.00	\$1,210,500.00
GUARDRAIL	2,200	FT	\$22.00	\$48,400.00
MEDIAN BARRIER	3,500	FT	\$120.00	\$420,000.00
CURB AND GUTTER	8,100	FT	\$42.00	\$340,200.00
CONCRETE MEDIAN	2,400	SY	\$100.00	\$240,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,221,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	350,000	EACH	\$1.00	\$350,000.00
EROSION CONTROL PLAN	1	LUMP	\$60,000.00	\$60,000.00
BMPs	1	LUMP	\$175,000.00	\$175,000.00
SEEDING AND MULCHING	111,500	SY	\$2.00	\$223,000.00
Erosion Control Subtotal				\$808,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	10,800	FT	\$300.00	\$3,240,000.00
UNDERDRAINS	42,700	FT	\$15.00	\$640,500.00
Drainage Subtotal				\$3,880,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	75,900	SY	\$100.00	\$7,590,000.00
FULL-DEPTH PAVEMENT (CONCRETE)			\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$7,590,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.38	MILE	\$250,000.00	\$95,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.38	MILE	\$30,000.00	\$11,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$106,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.38	MILE	\$170,000.00	\$64,600.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$787,600.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	18,000	SF	\$220.00	\$3,960,000.00
Structures Subtotal				\$3,960,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$165,400.00	\$165,400.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$52,000.00	\$52,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,417,400.00

Project Summary	Subtotal
Roadway	\$3,221,100
Erosion Control	\$808,000
Drainage	\$3,880,500
Pavement	\$7,590,000
Traffic Control - Signing and Pavement Marking	\$106,400
Traffic Signal and Surveillance	\$787,600
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,960,000
Incidentals	\$1,417,400
Total	\$22,271,000

Contingency (30%)	\$6,681,000
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Subtotal	\$28,952,000
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Right-of-Way	\$0
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Engineering (18%)	\$5,211,000
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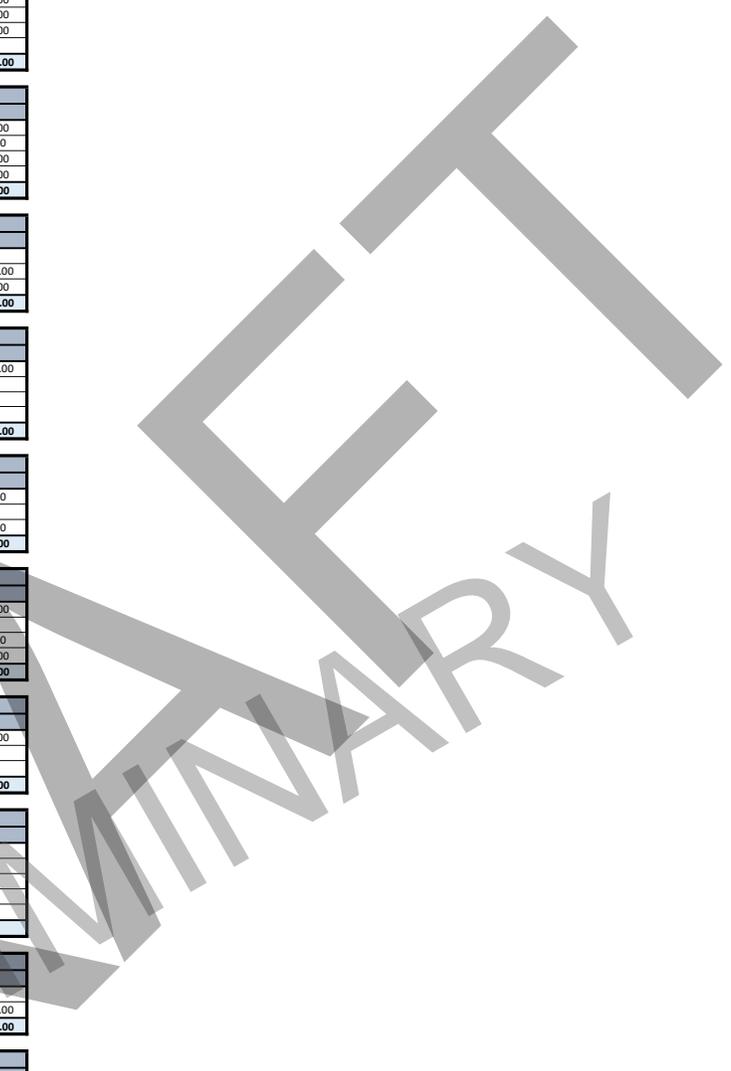
Construction Engineering (10%)	\$2,895,000
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Subtotal	\$37,058,000
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Inflation (30%)	\$11,117,400
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Project Total (2030 Dollars)	\$48,175,000
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Estimate completed by:



SEGMENT 2 CONCEPT D - OVERALL

SEGMENT 2 CONCEPT D - RANGE 1	
Construction Subtotal	\$21,935,000
Contingency (30%)	\$6,581,000
Construction Total	\$28,516,000
Right-of-Way	\$0
Engineering (18%)	\$5,133,000
Construction Engineering (10%)	\$2,852,000
Project Subtotal	\$36,501,000
Inflation (30%)	\$10,950,300
Subtotal	\$47,451,000
SEGMENT 2 CONCEPT D - RANGE 2	
Construction Subtotal	\$14,472,000
Contingency (30%)	\$4,342,000
Construction Total	\$18,814,000
Right-of-Way	\$0
Engineering (18%)	\$3,387,000
Construction Engineering (10%)	\$1,881,000
Project Subtotal	\$24,082,000
Inflation (30%)	\$7,224,600
Subtotal	\$31,307,000
SEGMENT 2 CONCEPT D - RANGE 3	
Construction Subtotal	\$14,882,000
Contingency (30%)	\$4,465,000
Construction Total	\$19,347,000
Right-of-Way	\$0
Engineering (18%)	\$3,482,000
Construction Engineering (10%)	\$1,935,000
Project Subtotal	\$24,764,000
Inflation (30%)	\$7,429,200
Subtotal	\$32,193,000
SEGMENT 2 - OVERALL	
SEGMENT 2 CONCEPT D - RANGE 1	\$47,451,000
SEGMENT 2 CONCEPT D - RANGE 2	\$31,307,000
SEGMENT 2 CONCEPT D - RANGE 3	\$32,193,000
Total - Segment 2 - Overall	\$110,951,000

Construction w/ Contingency w/out Inflation
\$85,347,000

Estimate completed by:



PRELIMINARY

SEGMENT 2 CONCEPT D - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	22,300	SY	\$20.00	\$446,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	13,200	CY	\$40.00	\$528,000.00
EMBANKMENT	31,900	CY	\$45.00	\$1,435,500.00
GUARDRAIL	2,300	FT	\$22.00	\$50,600.00
MEDIAN BARRIER	5,800	FT	\$120.00	\$696,000.00
CURB AND GUTTER	12,600	FT	\$42.00	\$529,200.00
CONCRETE MEDIAN	1,000	SY	\$100.00	\$100,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,835,300.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	350,000	LUMP	\$1.00	\$350,000.00
EROSION CONTROL PLAN	1	LUMP	\$60,000.00	\$60,000.00
BMPs	1	LUMP	\$175,000.00	\$175,000.00
SEEDING AND MULCHING	58,700	SY	\$2.00	\$117,400.00
Erosion Control Subtotal				\$702,400.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	500	FT	\$600.00	\$300,000.00
STORM SEWER SYSTEM	11,800	FT	\$300.00	\$3,540,000.00
UNDERDRAINS	58,600	FT	\$15.00	\$879,000.00
Drainage Subtotal				\$4,719,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	98,500	SY	\$100.00	\$9,850,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	17,000	SY	\$54.00	\$918,000.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$10,768,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.85	MILE	\$250,000.00	\$212,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.85	MILE	\$30,000.00	\$25,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$238,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.85	MILE	\$170,000.00	\$144,500.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$267,500.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	156000	LUMP	\$1.00	\$156,000.00
MAINTENANCE OF TRAFFIC	49000	LUMP	\$1.00	\$49,000.00
MOBILIZATION	1200000	LUMP	\$1.00	\$1,200,000.00
Miscellaneous Subtotal				\$1,405,000.00

Project Summary	Subtotal
Roadway	\$3,835,300
Erosion Control	\$702,400
Drainage	\$4,719,000
Pavement	\$10,768,000
Traffic Control - Signing and Pavement Marking	\$238,000
Traffic Signal and Surveillance	\$267,500
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$1,405,000
Total	\$21,935,000

Contingency (30%)	\$6,581,000
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Subtotal	\$28,516,000
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Right-of-Way	\$0
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Engineering (18%)	\$5,133,000
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Construction Engineering (10%)	\$2,852,000
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Subtotal	\$36,501,000
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Inflation (30%)	\$10,950,300
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Project Total (2030 Dollars)	\$47,451,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT D - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	7,200	SY	\$20.00	\$144,000.00
CULVERT REMOVED	500	FT	\$100.00	\$50,000.00
EXCAVATION	1,100	CY	\$40.00	\$44,000.00
EMBANKMENT	18,900	CY	\$45.00	\$850,500.00
GUARDRAIL	1,200	FT	\$22.00	\$26,400.00
MEDIAN BARRIER	2,300	FT	\$120.00	\$276,000.00
CURB AND GUTTER	1,300	FT	\$42.00	\$54,600.00
CONCRETE MEDIAN	5,900	SY	\$100.00	\$590,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,035,500.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	200,000	LUMP	\$1.00	\$200,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$100,000.00	\$100,000.00
SEEDING AND MULCHING	20,400	SY	\$2.00	\$40,800.00
Erosion Control Subtotal				\$380,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	3,900	FT	\$300.00	\$1,170,000.00
UNDERDRAINS	30,800	FT	\$15.00	\$462,000.00
Drainage Subtotal				\$1,632,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	79,500	SY	\$100.00	\$7,950,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$7,950,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.83	MILE	\$250,000.00	\$207,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.83	MILE	\$30,000.00	\$24,900.00
Traffic Control - Signing and Pavement Marking Subtotal				\$232,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	0.83	MILE	\$170,000.00	\$141,100.00
CCTV	3	EACH	\$123,000.00	\$369,000.00
Traffic Control - Traffic Signal Subtotal				\$1,290,100.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	115200	LUMP	\$1.00	\$115,200.00
MAINTENANCE OF TRAFFIC	36000	LUMP	\$1.00	\$36,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$951,200.00

Project Summary	Subtotal
Roadway	\$2,035,500
Erosion Control	\$380,800
Drainage	\$1,632,000
Pavement	\$7,950,000
Traffic Control - Signing and Pavement Marking	\$232,400
Traffic Signal and Surveillance	\$1,290,100
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$951,200
Total	\$14,472,000

Contingency (30%)	\$4,342,000
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Subtotal	\$18,814,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,387,000
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Construction Engineering (10%)	\$1,881,000
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Subtotal	\$24,082,000
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Inflation (30%)	\$7,224,600
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Project Total (2030 Dollars)	\$31,307,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 2 CONCEPT D - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	8,000	SY	\$20.00	\$160,000.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	6,300	CY	\$40.00	\$252,000.00
EMBANKMENT	20,000	CY	\$45.00	\$900,000.00
GUARDRAIL	200	FT	\$22.00	\$4,400.00
MEDIAN BARRIER	2,200	FT	\$120.00	\$264,000.00
CURB AND GUTTER	3,100	FT	\$42.00	\$130,200.00
CONCRETE MEDIAN	1,800	SY	\$100.00	\$180,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,890,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	250,000	LUMP	\$1.00	\$250,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$125,000.00	\$125,000.00
SEEDING AND MULCHING	31,000	SY	\$2.00	\$62,000.00
Erosion Control Subtotal				\$487,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,600	FT	\$300.00	\$1,680,000.00
UNDERDRAINS	32,100	FT	\$15.00	\$481,500.00
Drainage Subtotal				\$2,161,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	79,700	SY	\$100.00	\$7,970,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	3,900	SY	\$54.00	\$210,600.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$8,180,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.38	MILE	\$250,000.00	\$95,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.38	MILE	\$30,000.00	\$11,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$106,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	0.38	MILE	\$170,000.00	\$64,600.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,090,600.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	125500	LUMP	\$1.00	\$125,500.00
MAINTENANCE OF TRAFFIC	39400	LUMP	\$1.00	\$39,400.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$964,900.00

Project Summary	Subtotal
Roadway	\$1,890,600
Erosion Control	\$487,000
Drainage	\$2,161,500
Pavement	\$8,180,600
Traffic Control - Signing and Pavement Marking	\$106,400
Traffic Signal and Surveillance	\$1,090,600
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$964,900
Total	\$14,882,000

Contingency (30%)	\$4,465,000
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Subtotal	\$19,347,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,482,000
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Construction Engineering (10%)	\$1,935,000
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Subtotal	\$24,764,000
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Inflation (30%)	\$7,429,200
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Project Total (2030 Dollars)	\$32,193,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 3 CONCEPT A - OVERALL

SEGMENT 3 CONCEPT A - RANGE 1	
	Quantity
Construction Subtotal	\$25,972,000
Contingency (30%)	\$7,792,000
Construction Total	\$33,764,000
Right-of-Way	\$0
Engineering (18%)	\$6,078,000
Construction Engineering (10%)	\$3,376,000
Project Subtotal	\$43,218,000
Inflation (30%)	\$12,965,400
Subtotal	\$56,183,000
SEGMENT 3 CONCEPT A - RANGE 2	
Construction Subtotal	\$35,789,000
Contingency (30%)	\$10,737,000
Construction Total	\$46,526,000
Right-of-Way	\$0
Engineering (18%)	\$8,375,000
Construction Engineering (10%)	\$4,653,000
Project Subtotal	\$59,554,000
Inflation (30%)	\$17,866,200
Subtotal	\$77,420,000
SEGMENT 3 CONCEPT A - RANGE 3	
Construction Subtotal	\$24,097,000
Contingency (30%)	\$7,229,000
Construction Total	\$31,326,000
Right-of-Way	\$0
Engineering (18%)	\$5,639,000
Construction Engineering (10%)	\$3,133,000
Project Subtotal	\$40,098,000
Inflation (30%)	\$12,029,400
Subtotal	\$52,127,000
SEGMENT 3 - OVERALL	
SEGMENT 3 CONCEPT A - RANGE 1	\$56,183,000
SEGMENT 3 CONCEPT A - RANGE 2	\$77,420,000
SEGMENT 3 CONCEPT A - RANGE 3	\$52,127,000
Total - Segment 3 - Overall	\$185,730,000

Construction w/ Contingency w/out Inflation
\$142,870,000

Estimate completed by:



PRELIMINARY

SEGMENT 3 CONCEPT A - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	54,300	SY	\$20.00	\$1,086,000.00
CULVERT REMOVED	1,300	FT	\$100.00	\$130,000.00
EXCAVATION	12,000	CY	\$40.00	\$480,000.00
EMBANKMENT	16,000	CY	\$45.00	\$720,000.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	4,600	FT	\$120.00	\$552,000.00
CURB AND GUTTER	7,500	FT	\$42.00	\$315,000.00
CONCRETE MEDIAN	2,900	SY	\$100.00	\$290,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,588,400.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	305,000	EACH	\$1.00	\$305,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$152,500.00	\$152,500.00
SEEDING AND MULCHING	29,200	SY	\$2.00	\$58,400.00
Erosion Control Subtotal				\$565,900.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	1,300	FT	\$600.00	\$780,000.00
STORM SEWER SYSTEM	7,700	FT	\$300.00	\$2,310,000.00
UNDERDRAINS	40,000	FT	\$15.00	\$600,000.00
Drainage Subtotal				\$3,690,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	71,000	SY	\$145.00	\$10,295,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	14,200	SY	\$54.00	\$766,800.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$11,061,800.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.46	MILE	\$250,000.00	\$365,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.46	MILE	\$30,000.00	\$43,800.00
Traffic Control - Signing and Pavement Marking Subtotal				\$408,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$188,700.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$188,700.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	2	EACH	\$1,500,000.00	\$3,000,000.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$3,000,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	5,400	SF	\$220.00	\$1,188,000.00
Structures Subtotal				\$1,188,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	160000	LUMP	\$1.00	\$160,000.00
MAINTENANCE OF TRAFFIC	920000	LUMP	\$1.00	\$920,000.00
MOBILIZATION	1200000	LUMP	\$1.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,280,000.00

Project Summary	Subtotal
Roadway	\$3,588,400
Erosion Control	\$565,900
Drainage	\$3,690,000
Pavement	\$11,061,800
Traffic Control - Signing and Pavement Marking	\$408,800
Traffic Signal and Surveillance	\$188,700
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$3,000,000
Structures	\$1,188,000
Incidentals	\$2,280,000
Total	\$25,972,000

Contingency (30%)	\$7,792,000
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Subtotal	\$33,764,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,078,000
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Construction Engineering (10%)	\$3,376,000
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Subtotal	\$43,218,000
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Inflation (30%)	\$12,965,400
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Project Total (2030 Dollars)	\$56,183,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 3 CONCEPT A - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	47,500	SY	\$20.00	\$950,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	40,000	CY	\$40.00	\$1,600,000.00
EMBANKMENT	190,000	CY	\$45.00	\$8,550,000.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	4,200	FT	\$120.00	\$504,000.00
CURB AND GUTTER	6,200	FT	\$42.00	\$260,400.00
CONCRETE MEDIAN	2,500	SY	\$100.00	\$250,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$12,149,800.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	460,000	EACH	\$1.00	\$460,000.00
EROSION CONTROL PLAN	1	LUMP	\$60,000.00	\$60,000.00
BMPs	1	LUMP	\$235,000.00	\$235,000.00
SEEDING AND MULCHING	60,700	SY	\$2.00	\$121,400.00
Erosion Control Subtotal				\$876,400.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	9,600	FT	\$300.00	\$2,880,000.00
UNDERDRAINS	46,800	FT	\$15.00	\$702,000.00
Drainage Subtotal				\$3,702,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	53,100	SY	\$145.00	\$7,699,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	15,700	SY	\$54.00	\$847,800.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$8,547,300.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.82	MILE	\$250,000.00	\$455,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.82	MILE	\$30,000.00	\$54,600.00
Traffic Control - Signing and Pavement Marking Subtotal				\$509,600.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	28,000	SF	\$90.00	\$2,160,000.00
BRIDGE	18,700	SF	\$220.00	\$4,114,000.00
Structures Subtotal				\$6,274,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	230000	LUMP	\$1.00	\$230,000.00
MAINTENANCE OF TRAFFIC	1400000	LUMP	\$1.00	\$1,400,000.00
MOBILIZATION	1600000	LUMP	\$1.00	\$1,600,000.00
Miscellaneous Subtotal				\$3,230,000.00

Project Summary	Subtotal
Roadway	\$12,149,800
Erosion Control	\$876,400
Drainage	\$3,702,000
Pavement	\$8,547,300
Traffic Control - Signing and Pavement Marking	\$509,600
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$6,274,000
Incidentals	\$3,230,000
Total	\$35,789,000

Contingency (30%)	\$10,737,000
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Subtotal	\$46,526,000
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Right-of-Way	\$0
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Engineering (18%)	\$8,375,000
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Construction Engineering (10%)	\$4,653,000
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Subtotal	\$59,554,000
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Inflation (30%)	\$17,866,200
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Project Total (2030 Dollars)	\$77,420,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 3 CONCEPT A - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	45,400	SY	\$20.00	\$908,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	10,000	CY	\$40.00	\$400,000.00
EMBANKMENT	15,000	CY	\$45.00	\$675,000.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	3,200	FT	\$120.00	\$384,000.00
CURB AND GUTTER	11,700	FT	\$42.00	\$491,400.00
CONCRETE MEDIAN	2,300	SY	\$100.00	\$230,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,119,400.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	450,000	EACH	\$1.00	\$450,000.00
EROSION CONTROL PLAN	1	LUMP	\$500,000.00	\$500,000.00
BMPs	1	LUMP	\$225,000.00	\$225,000.00
SEEDING AND MULCHING	36,100	SY	\$2.00	\$72,200.00
Erosion Control Subtotal				\$1,247,200.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	8,600	FT	\$300.00	\$2,580,000.00
UNDERDRAINS	40,800	FT	\$15.00	\$612,000.00
Drainage Subtotal				\$3,312,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	53,100	SY	\$145.00	\$7,699,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	12,800	SY	\$54.00	\$691,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$8,390,700.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.63	MILE	\$250,000.00	\$407,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.63	MILE	\$30,000.00	\$48,900.00
Traffic Control - Signing and Pavement Marking Subtotal				\$456,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1.63	MILE	\$170,000.00	\$277,100.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$700,100.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	8600	FT	\$100.00	\$860,000.00
Traffic Control - Traffic Signal Subtotal				\$860,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	4,800	SF	\$90.00	\$432,000.00
BRIDGE	20,900	SF	\$220.00	\$4,598,000.00
Structures Subtotal				\$5,030,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	140000	LUMP	\$1.00	\$140,000.00
MAINTENANCE OF TRAFFIC	41500	LUMP	\$1.00	\$41,500.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$981,500.00

Project Summary	Subtotal
Roadway	\$3,119,400
Erosion Control	\$1,247,200
Drainage	\$3,312,000
Pavement	\$8,390,700
Traffic Control - Signing and Pavement Marking	\$456,400
Traffic Signal and Surveillance	\$700,100
Roadway Lighting	\$860,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$5,030,000
Incidentals	\$981,500
Total	\$24,097,000

Contingency (30%)	\$7,229,000
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Subtotal	\$31,326,000
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Right-of-Way	\$0
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Engineering (18%)	\$5,639,000
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Construction Engineering (10%)	\$3,133,000
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Subtotal	\$40,098,000
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Inflation (30%)	\$12,029,400
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Project Total (2030 Dollars)	\$52,127,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 3 CONCEPT B - OVERALL

SEGMENT 3 CONCEPT B - RANGE 1	Quantity
Construction Subtotal	\$25,712,000
Contingency (30%)	\$7,714,000
Construction Total	\$33,426,000
Right-of-Way	\$0
Engineering (18%)	\$6,017,000
Construction Engineering (10%)	\$3,343,000
Project Subtotal	\$42,786,000
Inflation (30%)	\$12,835,800
Subtotal	\$55,622,000
SEGMENT 3 CONCEPT B - RANGE 2	
Construction Subtotal	\$26,723,000
Contingency (30%)	\$8,017,000
Construction Total	\$34,740,000
Right-of-Way	\$0
Engineering (18%)	\$6,253,000
Construction Engineering (10%)	\$3,474,000
Project Subtotal	\$44,467,000
Inflation (30%)	\$13,340,100
Subtotal	\$57,807,000
SEGMENT 3 CONCEPT B - RANGE 3	
Construction Subtotal	\$18,584,000
Contingency (30%)	\$5,575,000
Construction Total	\$24,159,000
Right-of-Way	\$0
Engineering (18%)	\$4,349,000
Construction Engineering (10%)	\$2,416,000
Project Subtotal	\$30,924,000
Inflation (30%)	\$9,277,200
Subtotal	\$40,201,000
SEGMENT 3 - OVERALL	
SEGMENT 3 CONCEPT B - RANGE 1	\$55,622,000
SEGMENT 3 CONCEPT B - RANGE 2	\$57,807,000
SEGMENT 3 CONCEPT B - RANGE 3	\$40,201,000
Total - Segment 3 - Overall	\$153,630,000

Construction w/ Contingency w/out Inflation
\$118,177,000

Estimate completed by:



PRELIMINARY

SEGMENT 3 CONCEPT B - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	50,100	SY	\$20.00	\$1,002,000.00
CULVERT REMOVED	1,300	FT	\$100.00	\$130,000.00
EXCAVATION	11,000	CY	\$40.00	\$440,000.00
EMBANKMENT	15,000	CY	\$45.00	\$675,000.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	4,800	FT	\$120.00	\$576,000.00
CURB AND GUTTER	4,700	FT	\$42.00	\$197,400.00
CONCRETE MEDIAN	1,400	SY	\$100.00	\$140,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,171,400.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	300,000	EACH	\$1.00	\$300,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$150,000.00	\$150,000.00
SEEDING AND MULCHING	29,400	SY	\$2.00	\$58,800.00
Erosion Control Subtotal				\$548,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	1,300	FT	\$600.00	\$780,000.00
STORM SEWER SYSTEM	7,200	FT	\$300.00	\$2,160,000.00
UNDERDRAINS	38,400	FT	\$15.00	\$576,000.00
Drainage Subtotal				\$3,516,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	74,700	SY	\$145.00	\$10,831,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	11,600	SY	\$54.00	\$626,400.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$11,457,900.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.36	MILE	\$250,000.00	\$340,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.36	MILE	\$30,000.00	\$40,800.00
Traffic Control - Signing and Pavement Marking Subtotal				\$380,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$188,700.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$188,700.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	2	EACH	\$1,500,000.00	\$3,000,000.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$3,000,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	5,400	SF	\$220.00	\$1,188,000.00
Structures Subtotal				\$1,188,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	160000	LUMP	\$1.00	\$160,000.00
MAINTENANCE OF TRAFFIC	900000	LUMP	\$1.00	\$900,000.00
MOBILIZATION	1200000	LUMP	\$1.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,260,000.00

Project Summary	Subtotal
Roadway	\$3,171,400
Erosion Control	\$548,800
Drainage	\$3,516,000
Pavement	\$11,457,900
Traffic Control - Signing and Pavement Marking	\$380,800
Traffic Signal and Surveillance	\$188,700
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$3,000,000
Structures	\$1,188,000
Incidentals	\$2,260,000
Total	\$25,712,000

Contingency (30%)	\$7,714,000
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Subtotal	\$33,426,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,017,000
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Construction Engineering (10%)	\$3,343,000
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Subtotal	\$42,786,000
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Inflation (30%)	\$12,835,800
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Project Total (2030 Dollars)	\$55,622,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 3 CONCEPT B - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	44,300	SY	\$20.00	\$886,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	12,000	CY	\$40.00	\$480,000.00
EMBANKMENT	23,000	CY	\$45.00	\$1,035,000.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	4,200	FT	\$120.00	\$504,000.00
CURB AND GUTTER	8,200	FT	\$42.00	\$344,400.00
CONCRETE MEDIAN	400	SY	\$100.00	\$40,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,324,800.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	350,000	EACH	\$1.00	\$350,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$175,000.00	\$175,000.00
SEEDING AND MULCHING	23,400	SY	\$2.00	\$46,800.00
Erosion Control Subtotal				\$621,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	7,700	FT	\$300.00	\$2,310,000.00
UNDERDRAINS	39,200	FT	\$15.00	\$588,000.00
Drainage Subtotal				\$3,018,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	77,900	SY	\$145.00	\$11,295,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	6,500	SY	\$54.00	\$351,000.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$11,646,500.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.46	MILE	\$250,000.00	\$365,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.46	MILE	\$30,000.00	\$43,800.00
Traffic Control - Signing and Pavement Marking Subtotal				\$408,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1.46	MILE	\$170,000.00	\$248,200.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$600,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	19,900	SF	\$220.00	\$4,378,000.00
Structures Subtotal				\$4,378,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	175000	LUMP	\$1.00	\$175,000.00
MAINTENANCE OF TRAFFIC	1050000	LUMP	\$1.00	\$1,050,000.00
MOBILIZATION	1200000	LUMP	\$1.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,425,000.00

Project Summary	Subtotal
Roadway	\$3,324,800
Erosion Control	\$621,800
Drainage	\$3,018,000
Pavement	\$11,646,500
Traffic Control - Signing and Pavement Marking	\$408,800
Traffic Signal and Surveillance	\$600,000
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$4,378,000
Incidentals	\$2,425,000
Total	\$26,723,000

Contingency (30%)	\$8,017,000
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Subtotal	\$34,740,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,253,000
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Construction Engineering (10%)	\$3,474,000
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Subtotal	\$44,467,000
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Inflation (30%)	\$13,340,100
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Project Total (2030 Dollars)	\$57,807,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 3 CONCEPT B - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	36,300	SY	\$20.00	\$726,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	10,000	CY	\$40.00	\$400,000.00
EMBANKMENT	15,000	CY	\$45.00	\$675,000.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	2,600	FT	\$120.00	\$312,000.00
CURB AND GUTTER	3,600	FT	\$42.00	\$151,200.00
CONCRETE MEDIAN	1,400	SY	\$100.00	\$140,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,439,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	240,000	EACH	\$1.00	\$240,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$120,000.00	\$120,000.00
SEEDING AND MULCHING	14,600	SY	\$2.00	\$29,200.00
Erosion Control Subtotal				\$429,200.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	4,200	FT	\$300.00	\$1,260,000.00
UNDERDRAINS	22,000	FT	\$15.00	\$330,000.00
Drainage Subtotal				\$1,710,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	44,900	SY	\$145.00	\$6,510,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	49,800	SY	\$54.00	\$2,689,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,199,700.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.80	MILE	\$250,000.00	\$200,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.80	MILE	\$30,000.00	\$24,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$224,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4200	FT	\$100.00	\$420,000.00
Traffic Control - Traffic Signal Subtotal				\$420,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	4,000	SF	\$90.00	\$360,000.00
BRIDGE	9,800	SF	\$220.00	\$2,156,000.00
Structures Subtotal				\$2,516,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	125000	LUMP	\$1.00	\$125,000.00
MAINTENANCE OF TRAFFIC	720000	LUMP	\$1.00	\$720,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,645,000.00

Project Summary	Subtotal
Roadway	\$2,439,600
Erosion Control	\$429,200
Drainage	\$1,710,000
Pavement	\$9,199,700
Traffic Control - Signing and Pavement Marking	\$224,000
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$420,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$2,516,000
Incidentals	\$1,645,000
Total	\$18,584,000

Contingency (30%)	\$5,575,000
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Subtotal	\$24,159,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,349,000
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Construction Engineering (10%)	\$2,416,000
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Subtotal	\$30,924,000
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Inflation (30%)	\$9,277,200
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Project Total (2030 Dollars)	\$40,201,000
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Estimate completed by:



SEGMENT 3 CONCEPT D - OVERALL

SEGMENT X CONCEPT C - RANGE 1	
Construction Subtotal	\$18,401,000
Contingency (30%)	\$5,520,000
Construction Total	\$23,921,000
Right-of-Way	\$0
Engineering (18%)	\$4,306,000
Construction Engineering (10%)	\$2,392,000
Project Subtotal	\$30,619,000
Inflation (30%)	\$9,185,700
Subtotal	\$39,805,000
SEGMENT 3 CONCEPT C - RANGE 2	
Construction Subtotal	\$27,187,000
Contingency (30%)	\$8,156,000
Construction Total	\$35,343,000
Right-of-Way	\$0
Engineering (18%)	\$6,362,000
Construction Engineering (10%)	\$3,534,000
Project Subtotal	\$45,239,000
Inflation (30%)	\$13,571,700
Subtotal	\$58,811,000
SEGMENT 3 CONCEPT C - RANGE 3	
Construction Subtotal	\$12,293,000
Contingency (30%)	\$3,688,000
Construction Total	\$15,981,000
Right-of-Way	\$0
Engineering (18%)	\$2,877,000
Construction Engineering (10%)	\$1,598,000
Project Subtotal	\$20,456,000
Inflation (30%)	\$6,136,800
Subtotal	\$26,593,000
SEGMENT 7 - OVERALL	
SEGMENT X CONCEPT C - RANGE 1	\$39,805,000
SEGMENT 3 CONCEPT C - RANGE 2	\$58,811,000
SEGMENT 3 CONCEPT C - RANGE 3	\$26,593,000
Total - Segment X - Overall	\$125,209,000

Construction w/ Contingency w/out Inflation
\$96,314,000

Estimate completed by:



PRELIMINARY

SEGMENT X CONCEPT C - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	44,700	SY	\$20.00	\$894,000.00
CULVERT REMOVED	1,300	FT	\$100.00	\$130,000.00
EXCAVATION	8,500	CY	\$40.00	\$340,000.00
EMBANKMENT	12,000	CY	\$45.00	\$540,000.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	2,900	FT	\$120.00	\$348,000.00
CURB AND GUTTER	3,400	FT	\$42.00	\$142,800.00
CONCRETE MEDIAN	1,100	SY	\$100.00	\$110,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,515,800.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	230,000	EACH	\$1.00	\$230,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$115,000.00	\$115,000.00
SEEDING AND MULCHING	19,400	SY	\$2.00	\$38,800.00
Erosion Control Subtotal				\$423,800.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	1,300	FT	\$600.00	\$780,000.00
STORM SEWER SYSTEM	5,900	FT	\$300.00	\$1,770,000.00
UNDERDRAINS	32,600	FT	\$15.00	\$489,000.00
Drainage Subtotal				\$3,039,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	61,400	SY	\$145.00	\$8,903,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	9,800	SY	\$54.00	\$529,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,432,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.12	MILE	\$250,000.00	\$280,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.12	MILE	\$30,000.00	\$33,600.00
Traffic Control - Signing and Pavement Marking Subtotal				\$313,600.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$188,700.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$1,091,700.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$1,500,000.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	115000	LUMP	\$1.00	\$115,000.00
MAINTENANCE OF TRAFFIC	670000	LUMP	\$1.00	\$670,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,585,000.00

Project Summary	Subtotal
Roadway	\$2,515,800
Erosion Control	\$423,800
Drainage	\$3,039,000
Pavement	\$9,432,200
Traffic Control - Signing and Pavement Marking	\$313,600
Traffic Signal and Surveillance	\$1,091,700
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$1,585,000
Total	\$18,401,000

Contingency (30%)	\$5,520,000
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Subtotal	\$23,921,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,306,000
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Construction Engineering (10%)	\$2,392,000
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Subtotal	\$30,619,000
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Inflation (30%)	\$9,185,700
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Project Total (2030 Dollars)	\$39,805,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 3 CONCEPT C - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	44,600	SY	\$20.00	\$892,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	11,000	CY	\$40.00	\$440,000.00
EMBANKMENT	20,000	CY	\$45.00	\$900,000.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	4,200	FT	\$120.00	\$504,000.00
CURB AND GUTTER	8,100	FT	\$42.00	\$340,200.00
CONCRETE MEDIAN	700	SY	\$100.00	\$70,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,181,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	340,000	EACH	\$1.00	\$340,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$170,000.00	\$170,000.00
SEEDING AND MULCHING	25,600	SY	\$2.00	\$51,200.00
Erosion Control Subtotal				\$611,200.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	7,700	FT	\$300.00	\$2,310,000.00
UNDERDRAINS	39,200	FT	\$15.00	\$588,000.00
Drainage Subtotal				\$3,018,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	66,000	SY	\$145.00	\$9,570,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	18,800	SY	\$54.00	\$1,015,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$10,585,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.46	MILE	\$250,000.00	\$365,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.46	MILE	\$30,000.00	\$43,800.00
Traffic Control - Signing and Pavement Marking Subtotal				\$408,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1.46	MILE	\$170,000.00	\$248,200.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$971,200.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	23,800	SF	\$220.00	\$5,236,000.00
Structures Subtotal				\$5,236,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	175000	LUMP	\$1.00	\$175,000.00
MAINTENANCE OF TRAFFIC	1500000	LUMP	\$1.00	\$1,500,000.00
MOBILIZATION	1200000	LUMP	\$1.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,875,000.00

Project Summary	Subtotal
Roadway	\$3,181,600
Erosion Control	\$611,200
Drainage	\$3,018,000
Pavement	\$10,585,200
Traffic Control - Signing and Pavement Marking	\$408,800
Traffic Signal and Surveillance	\$971,200
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$5,236,000
Incidentals	\$2,875,000
Total	\$27,187,000

Contingency (30%)	\$8,156,000
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Subtotal	\$35,343,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,362,000
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Construction Engineering (10%)	\$3,534,000
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Subtotal	\$45,239,000
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Inflation (30%)	\$13,571,700
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Project Total (2030 Dollars)	\$58,811,000
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Estimate completed by:



SEGMENT 3 CONCEPT C - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	29,300	SY	\$20.00	\$586,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	6,500	CY	\$40.00	\$260,000.00
EMBANKMENT	8,500	CY	\$45.00	\$382,500.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	1,500	FT	\$120.00	\$180,000.00
CURB AND GUTTER	4,700	FT	\$42.00	\$197,400.00
CONCRETE MEDIAN	1,700	SY	\$100.00	\$170,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,806,900.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	160,000	EACH	\$1.00	\$160,000.00
EROSION CONTROL PLAN	1	LUMP	\$30,000.00	\$30,000.00
BMPs	1	LUMP	\$80,000.00	\$80,000.00
SEEDING AND MULCHING	16,000	SY	\$2.00	\$32,000.00
Erosion Control Subtotal				\$302,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	4,800	FT	\$300.00	\$1,440,000.00
UNDERDRAINS	24,400	FT	\$15.00	\$366,000.00
Drainage Subtotal				\$1,926,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	38,400	SY	\$145.00	\$5,568,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	11,300	SY	\$54.00	\$610,200.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$6,178,200.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.91	MILE	\$250,000.00	\$227,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.91	MILE	\$30,000.00	\$27,300.00
Traffic Control - Signing and Pavement Marking Subtotal				\$254,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4800	FT	\$100.00	\$480,000.00
Traffic Control - Traffic Signal Subtotal				\$480,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	80000	LUMP	\$1.00	\$80,000.00
MAINTENANCE OF TRAFFIC	465000	LUMP	\$1.00	\$465,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,345,000.00

Project Summary	Subtotal
Roadway	\$1,806,900
Erosion Control	\$302,000
Drainage	\$1,926,000
Pavement	\$6,178,200
Traffic Control - Signing and Pavement Marking	\$254,800
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$480,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$1,345,000
Total	\$12,293,000

Contingency (30%)	\$3,688,000
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Subtotal	\$15,981,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,877,000
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Construction Engineering (10%)	\$1,598,000
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Subtotal	\$20,456,000
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Inflation (30%)	\$6,136,800
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Project Total (2030 Dollars)	\$26,593,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 3 CONCEPT D - OVERALL

SEGMENT 3 CONCEPT D - RANGE 1	
Construction Subtotal	\$15,845,000
Contingency (30%)	\$4,754,000
Construction Total	\$20,599,000
Right-of-Way	\$0
Engineering (18%)	\$3,708,000
Construction Engineering (10%)	\$2,060,000
Project Subtotal	\$26,367,000
Inflation (30%)	\$7,910,100
Subtotal	\$34,277,000
SEGMENT 3 CONCEPT D - RANGE 2	
Construction Subtotal	\$20,486,000
Contingency (30%)	\$6,146,000
Construction Total	\$26,632,000
Right-of-Way	\$0
Engineering (18%)	\$4,794,000
Construction Engineering (10%)	\$2,663,000
Project Subtotal	\$34,089,000
Inflation (30%)	\$10,226,700
Subtotal	\$44,316,000
SEGMENT 3 CONCEPT D - RANGE 3	
Construction Subtotal	\$12,347,000
Contingency (30%)	\$3,704,000
Construction Total	\$16,051,000
Right-of-Way	\$0
Engineering (18%)	\$2,889,000
Construction Engineering (10%)	\$1,605,000
Project Subtotal	\$20,545,000
Inflation (30%)	\$6,163,500
Subtotal	\$26,709,000
SEGMENT 3 - OVERALL	
SEGMENT 3 CONCEPT D - RANGE 1	\$34,277,000
SEGMENT 3 CONCEPT D - RANGE 2	\$44,316,000
SEGMENT 3 CONCEPT D - RANGE 3	\$26,709,000
Total - Segment 3 - Overall	\$105,302,000

Construction w/ Contingency w/out Inflation
\$81,001,000

Estimate completed by:



PRELIMINARY

SEGMENT 3 CONCEPT D - RANGE 1
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	39,100	SY	\$20.00	\$782,000.00
CULVERT REMOVED	1,300	FT	\$100.00	\$130,000.00
EXCAVATION	8,000	CY	\$40.00	\$320,000.00
EMBANKMENT	11,000	CY	\$45.00	\$495,000.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	3,200	FT	\$120.00	\$384,000.00
CURB AND GUTTER	5,200	FT	\$42.00	\$218,400.00
CONCRETE MEDIAN	1,300	SY	\$100.00	\$130,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$2,470,400.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	210,000	EACH	\$1.00	\$210,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$105,000.00	\$105,000.00
SEEDING AND MULCHING	22,600	SY	\$2.00	\$45,200.00
Erosion Control Subtotal				\$400,200.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	1,300	FT	\$600.00	\$780,000.00
STORM SEWER SYSTEM	5,900	FT	\$300.00	\$1,770,000.00
UNDERDRAINS	31,000	FT	\$15.00	\$465,000.00
Drainage Subtotal				\$3,015,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	51,000	SY	\$145.00	\$7,395,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	12,100	SY	\$54.00	\$653,400.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$8,048,400.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.11	MILE	\$250,000.00	\$277,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.11	MILE	\$30,000.00	\$33,300.00
Traffic Control - Signing and Pavement Marking Subtotal				\$310,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1.11	MILE	\$170,000.00	\$188,700.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$611,700.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$83,500.00	\$83,500.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$105,000.00	\$105,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$988,500.00

Project Summary	Subtotal
Roadway	\$2,470,400
Erosion Control	\$400,200
Drainage	\$3,015,000
Pavement	\$8,048,400
Traffic Control - Signing and Pavement Marking	\$310,800
Traffic Signal and Surveillance	\$611,700
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$988,500
Total	\$15,845,000

Contingency (30%)	\$4,754,000
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Subtotal	\$20,599,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,708,000
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Construction Engineering (10%)	\$2,060,000
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Subtotal	\$26,367,000
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Inflation (30%)	\$7,910,100
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Project Total (2030 Dollars)	\$34,277,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 3 CONCEPT D - RANGE 2
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	48,200	SY	\$20.00	\$964,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	7,500	CY	\$40.00	\$300,000.00
EMBANKMENT	10,500	CY	\$45.00	\$472,500.00
GUARDRAIL	700	FT	\$22.00	\$15,400.00
MEDIAN BARRIER	1,400	FT	\$120.00	\$168,000.00
CURB AND GUTTER	6,600	FT	\$42.00	\$277,200.00
CONCRETE MEDIAN	28,700	SY	\$100.00	\$2,870,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$5,087,100.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	275,000	EACH	\$1.00	\$275,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$137,500.00	\$137,500.00
SEEDING AND MULCHING	22,600	SY	\$2.00	\$45,200.00
Erosion Control Subtotal				\$497,700.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	5,700	FT	\$300.00	\$1,710,000.00
UNDERDRAINS	31,200	FT	\$15.00	\$468,000.00
Drainage Subtotal				\$2,298,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	59,300	SY	\$145.00	\$8,598,500.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	8,900	SY	\$54.00	\$480,600.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,079,100.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.08	MILE	\$250,000.00	\$270,000.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.08	MILE	\$30,000.00	\$32,400.00
Traffic Control - Signing and Pavement Marking Subtotal				\$302,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1.08	MILE	\$170,000.00	\$183,600.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$1,086,600.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT	\$0.00	\$0.00
WATERLINE 36" OR LARGER		FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER		EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER		FT	\$0.00	\$0.00
DAM MODIFICATION		LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$135,000.00	\$135,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$800,000.00	\$800,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,135,000.00

Project Summary	Subtotal
Roadway	\$5,087,100
Erosion Control	\$497,700
Drainage	\$2,298,000
Pavement	\$9,079,100
Traffic Control - Signing and Pavement Marking	\$302,400
Traffic Signal and Surveillance	\$1,086,600
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$2,135,000
Total	\$20,486,000

Contingency (30%)	\$6,146,000
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Subtotal	\$26,632,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,794,000
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Construction Engineering (10%)	\$2,663,000
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Subtotal	\$34,089,000
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Inflation (30%)	\$10,226,700
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Project Total (2030 Dollars)	\$44,316,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 3 CONCEPT D - RANGE 3
XXXX TO XXXX

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	33,000	SY	\$20.00	\$660,000.00
CULVERT REMOVED	200	FT	\$100.00	\$20,000.00
EXCAVATION	6,500	CY	\$40.00	\$260,000.00
EMBANKMENT	9,000	CY	\$45.00	\$405,000.00
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	1,900	FT	\$120.00	\$228,000.00
CURB AND GUTTER	1,800	FT	\$42.00	\$75,600.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,659,600.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	155,000	EACH	\$1.00	\$155,000.00
EROSION CONTROL PLAN	1	LUMP	\$30,000.00	\$30,000.00
BMPs	1	LUMP	\$77,500.00	\$77,500.00
SEEDING AND MULCHING	12,700	SY	\$2.00	\$25,400.00
Erosion Control Subtotal				\$287,900.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	200	FT	\$600.00	\$120,000.00
STORM SEWER SYSTEM	3,300	FT	\$300.00	\$990,000.00
UNDERDRAINS	19,200	FT	\$15.00	\$288,000.00
Drainage Subtotal				\$1,398,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT (ASPHALT)	41,200	SY	\$145.00	\$5,974,000.00
FULL-DEPTH PAVEMENT (CONCRETE)		SY	\$145.00	\$0.00
PAVEMENT PLANING AND RESURFACING	10,700	SY	\$54.00	\$577,800.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$6,551,800.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.63	MILE	\$250,000.00	\$157,500.00
PAVEMENT MARKINGS - THERMO		MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.63	MILE	\$30,000.00	\$18,900.00
Traffic Control - Signing and Pavement Marking Subtotal				\$176,400.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.63	MILE	\$170,000.00	\$107,100.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$953,100.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING		FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$75,000.00	\$75,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$445,000.00	\$445,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,320,000.00

Project Summary	Subtotal
Roadway	\$1,659,600
Erosion Control	\$287,900
Drainage	\$1,398,000
Pavement	\$6,551,800
Traffic Control - Signing and Pavement Marking	\$176,400
Traffic Signal and Surveillance	\$953,100
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$1,320,000
Total	\$12,347,000

Contingency (30%)	\$3,704,000
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Subtotal	\$16,051,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,889,000
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Construction Engineering (10%)	\$1,605,000
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Subtotal	\$20,545,000
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Inflation (30%)	\$6,163,500
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Project Total (2030 Dollars)	\$26,709,000
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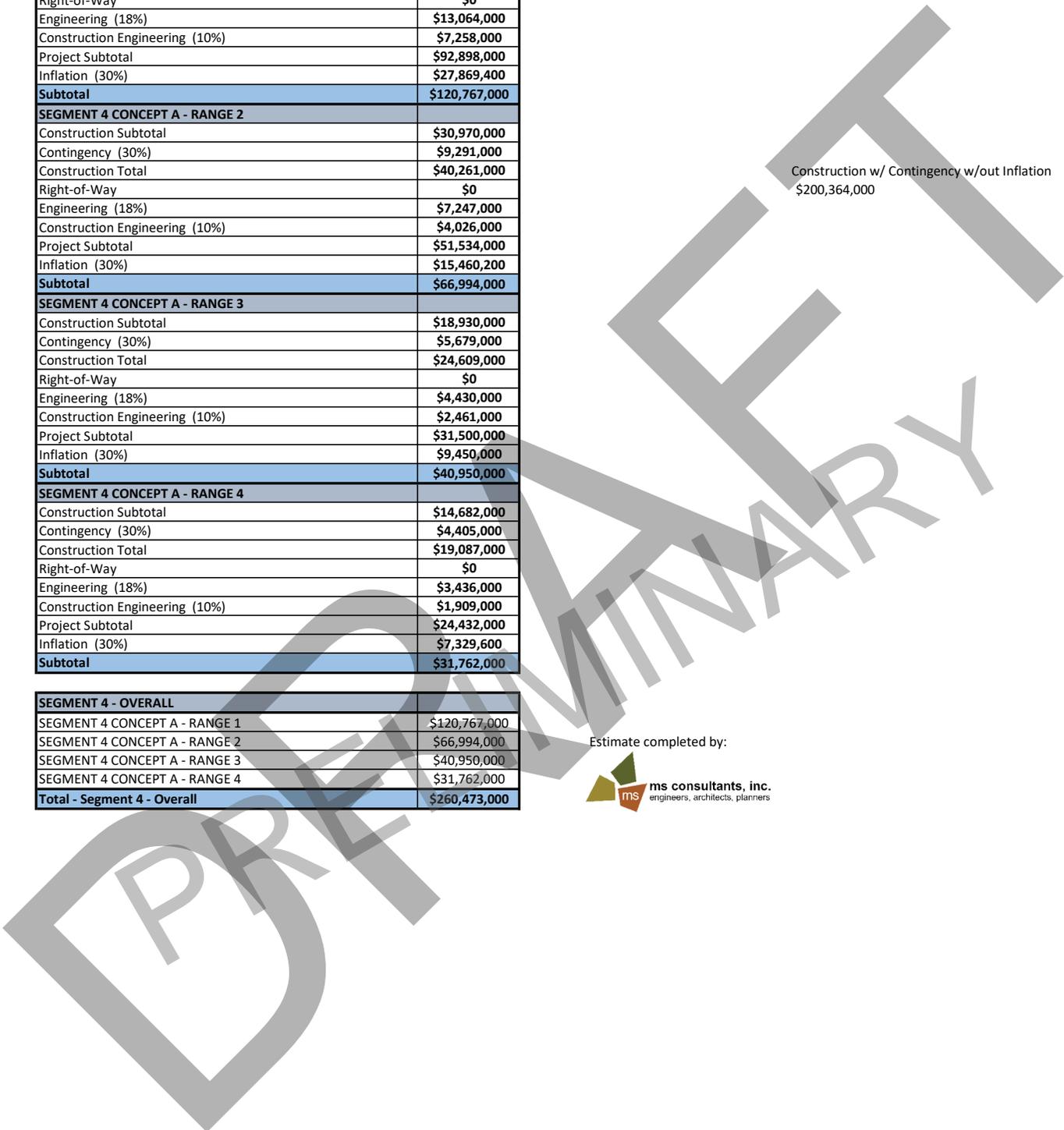
Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 4 CONCEPT A - OVERALL

SEGMENT 4 CONCEPT A - RANGE 1	Quantity
Construction Subtotal	\$55,828,000
Contingency (30%)	\$16,748,000
Construction Total	\$72,576,000
Right-of-Way	\$0
Engineering (18%)	\$13,064,000
Construction Engineering (10%)	\$7,258,000
Project Subtotal	\$92,898,000
Inflation (30%)	\$27,869,400
Subtotal	\$120,767,000
SEGMENT 4 CONCEPT A - RANGE 2	
Construction Subtotal	\$30,970,000
Contingency (30%)	\$9,291,000
Construction Total	\$40,261,000
Right-of-Way	\$0
Engineering (18%)	\$7,247,000
Construction Engineering (10%)	\$4,026,000
Project Subtotal	\$51,534,000
Inflation (30%)	\$15,460,200
Subtotal	\$66,994,000
SEGMENT 4 CONCEPT A - RANGE 3	
Construction Subtotal	\$18,930,000
Contingency (30%)	\$5,679,000
Construction Total	\$24,609,000
Right-of-Way	\$0
Engineering (18%)	\$4,430,000
Construction Engineering (10%)	\$2,461,000
Project Subtotal	\$31,500,000
Inflation (30%)	\$9,450,000
Subtotal	\$40,950,000
SEGMENT 4 CONCEPT A - RANGE 4	
Construction Subtotal	\$14,682,000
Contingency (30%)	\$4,405,000
Construction Total	\$19,087,000
Right-of-Way	\$0
Engineering (18%)	\$3,436,000
Construction Engineering (10%)	\$1,909,000
Project Subtotal	\$24,432,000
Inflation (30%)	\$7,329,600
Subtotal	\$31,762,000
SEGMENT 4 - OVERALL	
SEGMENT 4 CONCEPT A - RANGE 1	\$120,767,000
SEGMENT 4 CONCEPT A - RANGE 2	\$66,994,000
SEGMENT 4 CONCEPT A - RANGE 3	\$40,950,000
SEGMENT 4 CONCEPT A - RANGE 4	\$31,762,000
Total - Segment 4 - Overall	\$260,473,000

Construction w/ Contingency w/out Inflation
\$200,364,000

Estimate completed by:



SEGMENT 4 CONCEPT A - RANGE 1
104+50.00 TO 160+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	15,970	SY	\$20.00	\$319,404.36
CULVERT REMOVED	250	FT	\$100.00	\$25,000.00
EXCAVATION	36,395	CY	\$40.00	\$1,455,816.05
EMBANKMENT	238,958	CY	\$45.00	\$10,753,101.22
GUARDRAIL	4,250	FT	\$22.00	\$93,500.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	12,064	FT	\$42.00	\$506,696.99
CONCRETE MEDIAN	286	SY	\$100.00	\$28,587.04
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$13,182,105.67

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	407,750	EACH	\$1.00	\$407,750.00
EROSION CONTROL PLAN	50,000	LUMP	\$1.00	\$50,000.00
BMPs	268,000	LUMP	\$1.00	\$268,000.00
SEEDING AND MULCHING	71,962	SY	\$2.00	\$143,924.21
Erosion Control Subtotal				\$869,674.21

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	1,000	FT	\$600.00	\$600,000.00
STORM SEWER SYSTEM	12,064	FT	\$300.00	\$3,619,264.20
UNDERDRAINS	31,984	FT	\$15.00	\$479,767.20
Drainage Subtotal				\$4,699,031.40

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	36,122	SY	\$100.00	\$3,612,248.17
FULL DEPTH PAVEMENT, CONCRETE	16,323	SY	\$150.00	\$2,448,453.35
PAVEMENT PLANING AND RESURFACING	45,214	SY	\$54.00	\$2,441,568.05
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$8,502,269.56

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	4	MILE	\$250,000.00	\$1,025,378.79
PAVEMENT MARKINGS - THERMO	2	MILE	\$14,000.00	\$25,605.68
PAVEMENT MARKINGS - RECESSED	2	MILE	\$30,000.00	\$68,176.14
Traffic Control - Signing and Pavement Marking Subtotal				\$1,119,160.61

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$180,303.03
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$603,303.03

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	775	FT	\$200.00	\$155,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	8	EACH	\$1,500,000.00	\$12,000,000.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$12,155,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	9,512	SF	\$90.00	\$856,123.56
BRIDGE	48,572	SF	\$220.00	\$10,685,941.42
Structures Subtotal				\$11,542,064.98

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$208,000.00	\$208,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$1,247,000.00	\$1,247,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,655,000.00

Project Summary	Subtotal
Roadway	\$13,182,106
Erosion Control	\$869,674
Drainage	\$4,699,031
Pavement	\$8,502,270
Traffic Control - Signing and Pavement Marking	\$1,119,161
Traffic Signal and Surveillance	\$603,303
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$12,155,000
Structures	\$11,542,065
Incidentals	\$2,655,000
Total	\$55,828,000

Contingency (30%)	\$16,748,000
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Subtotal	\$72,576,000
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Right-of-Way	\$0
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Engineering (18%)	\$13,064,000
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Construction Engineering (10%)	\$7,258,000
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Subtotal	\$92,898,000
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Inflation (30%)	\$27,869,400
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Project Total (2030 Dollars)	\$120,767,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 4 CONCEPT A - RANGE 2
160+50.00 TO 210+00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,264	SY	\$20.00	\$285,274.36
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	30,896	CY	\$40.00	\$1,235,831.35
EMBANKMENT	248,409	CY	\$45.00	\$11,178,399.50
GUARDRAIL	4,100	FT	\$22.00	\$90,200.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,654	FT	\$42.00	\$195,450.99
CONCRETE MEDIAN	8,559	SY	\$100.00	\$855,914.40
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$13,841,070.60

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	664,750	EACH	\$1.00	\$664,750.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$422,000.00	\$422,000.00
SEEDING AND MULCHING	126,606	SY	\$2.00	\$253,212.60
Erosion Control Subtotal				\$1,389,962.60

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,654	FT	\$300.00	\$1,396,078.50
UNDERDRAINS	29,061	FT	\$15.00	\$435,915.00
Drainage Subtotal				\$1,831,993.50

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	25,358	SY	\$100.00	\$2,535,791.28
FULL DEPTH PAVEMENT, CONCRETE	17,612	SY	\$150.00	\$2,641,850.45
PAVEMENT PLANING AND RESURFACING	39,905	SY	\$54.00	\$2,154,843.99
SHARED USE PATH	693	SY	\$42.00	\$29,106.00
Pavement Subtotal				\$7,361,591.72

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	4	MILE	\$250,000.00	\$881,912.88
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$14,938.64
PAVEMENT MARKINGS - RECESSED	2	MILE	\$30,000.00	\$73,818.18
Traffic Control - Signing and Pavement Marking Subtotal				\$970,669.70

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$159,375.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,005,375.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	900	FT	\$200.00	\$180,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$180,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	1,007	SF	\$90.00	\$90,606.24
BRIDGE	8,942	SF	\$220.00	\$1,967,236.92
Structures Subtotal				\$2,057,843.16

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$147,000.00	\$147,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$884,000.00	\$884,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,831,000.00

Project Summary	Subtotal
Roadway	\$13,841,071
Erosion Control	\$1,389,963
Drainage	\$1,831,994
Pavement	\$7,361,592
Traffic Control - Signing and Pavement Marking	\$970,670
Traffic Signal and Surveillance	\$1,005,375
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$180,000
Structures	\$2,057,843
Incidentals	\$1,831,000
Total	\$30,970,000

Contingency (30%)	\$9,291,000
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Subtotal	\$40,261,000
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Right-of-Way	\$0
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Engineering (18%)	\$7,247,000
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Construction Engineering (10%)	\$4,026,000
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Subtotal	\$51,534,000
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Inflation (30%)	\$15,460,200
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Project Total (2030 Dollars)	\$66,994,000
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Estimate completed by:



SEGMENT 4 CONCEPT A - RANGE 3
210+00.00 TO 250+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	5,784	SY	\$20.00	\$115,681.28
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	77,904	CY	\$40.00	\$3,116,178.38
EMBANKMENT	74,269	CY	\$45.00	\$3,342,100.34
GUARDRAIL	2,250	FT	\$22.00	\$49,500.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,798	FT	\$42.00	\$201,503.65
CONCRETE MEDIAN	250	SY	\$100.00	\$25,045.17
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$6,850,008.82

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	278,000	EACH	1	\$278,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$200,000.00	\$200,000.00
SEEDING AND MULCHING	50,065	SY	\$2.00	\$100,129.13
Erosion Control Subtotal				\$628,129.13

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,798	FT	\$300.00	\$1,439,311.80
UNDERDRAINS	15,950	FT	\$15.00	\$239,250.00
Drainage Subtotal				\$1,678,561.80

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	22,126	SY	\$100.00	\$2,212,582.31
FULL DEPTH PAVEMENT, CONCRETE	10,220	SY	\$150.00	\$1,533,019.53
PAVEMENT PLANING AND RESURFACING	32,171	SY	\$54.00	\$1,737,260.98
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$5,482,862.82

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$503,077.65
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$17,433.71
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$23,011.36
Traffic Control - Signing and Pavement Marking Subtotal				\$543,522.73

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$130,397.73
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$553,397.73

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	725	FT	\$200.00	\$145,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$145,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	2,923	SF	\$90.00	\$263,095.46
BRIDGE	7,393	SF	\$220.00	\$1,626,474.96
Structures Subtotal				\$1,889,571.42

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$92,000.00	\$92,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$367,000.00	\$367,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$859,000.00

Project Summary	Subtotal
Roadway	\$6,850,009
Erosion Control	\$628,129
Drainage	\$1,678,562
Pavement	\$5,482,863
Traffic Control - Signing and Pavement Marking	\$543,523
Traffic Signal and Surveillance	\$553,398
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$145,000
Structures	\$1,889,571
Incidentals	\$859,000
Total	\$18,930,000

Contingency (30%)	\$5,679,000
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Subtotal	\$24,609,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,430,000
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Construction Engineering (10%)	\$2,461,000
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Subtotal	\$31,500,000
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Inflation (30%)	\$9,450,000
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Project Total (2030 Dollars)	\$40,950,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planner

SEGMENT 4 CONCEPT A - RANGE 4
250+50.00 TO 294+33.41

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	556	SY	\$20.00	\$11,129.40
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	15,502	CY	\$40.00	\$620,067.11
EMBANKMENT	130,277	CY	\$45.00	\$5,862,442.61
GUARDRAIL	0	FT	\$22.00	\$0.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	9,462	FT	\$42.00	\$397,399.55
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$6,891,038.67

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	205,000	EACH	\$1.00	\$205,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$152,000.00	\$152,000.00
SEEDING AND MULCHING	35,394	SY	\$2.00	\$70,788.25
Erosion Control Subtotal				\$452,788.25

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	9,462	FT	\$300.00	\$2,838,568.20
UNDERDRAINS	8,558	FT	\$15.00	\$128,370.00
Drainage Subtotal				\$2,966,938.20

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	12,236	SY	\$100.00	\$1,223,637.87
PAVEMENT PLANING AND RESURFACING	34,527	SY	\$54.00	\$1,864,452.29
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$3,088,090.16

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$410,085.23
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$11,343.18
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$24,903.41
Traffic Control - Signing and Pavement Marking Subtotal				\$446,331.82

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$141,119.32
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$141,119.32

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	400	FT	\$200.00	\$80,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$80,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$72,000.00	\$72,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$144,000.00	\$144,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$616,000.00

Project Summary	Subtotal
Roadway	\$6,891,039
Erosion Control	\$452,788
Drainage	\$2,966,938
Pavement	\$3,088,090
Traffic Control - Signing and Pavement Marking	\$446,332
Traffic Signal and Surveillance	\$141,119
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$80,000
Structures	\$0
Incidentals	\$616,000
Total	\$14,682,000

Contingency (30%)	\$4,405,000
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Subtotal	\$19,087,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,436,000
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Construction Engineering (10%)	\$1,909,000
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Subtotal	\$24,432,000
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Inflation (30%)	\$7,329,600
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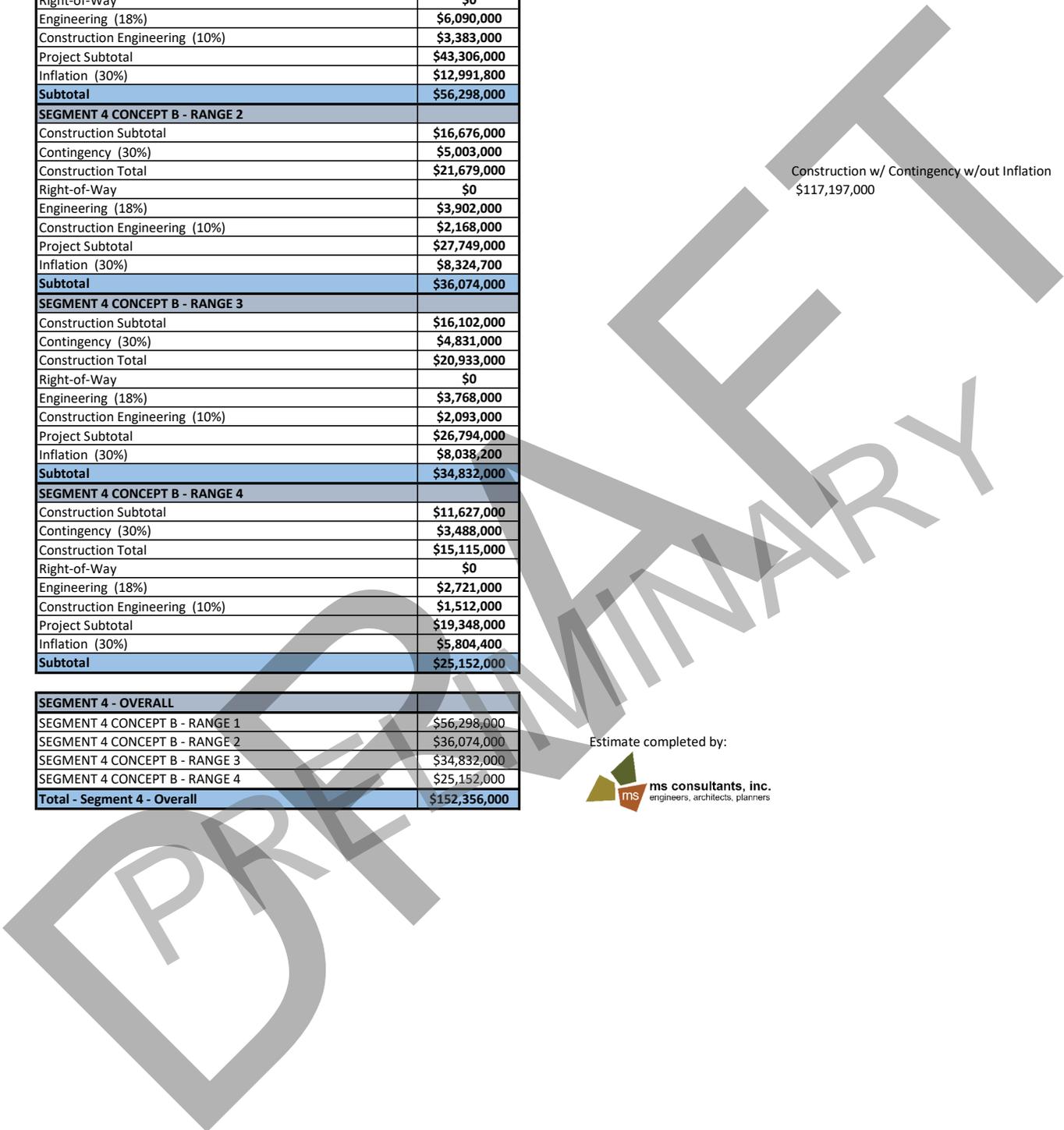
Project Total (2030 Dollars)	\$31,762,000
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SEGMENT 4 CONCEPT B - OVERALL

SEGMENT 4 CONCEPT B - RANGE 1	Quantity
Construction Subtotal	\$26,025,000
Contingency (30%)	\$7,808,000
Construction Total	\$33,833,000
Right-of-Way	\$0
Engineering (18%)	\$6,090,000
Construction Engineering (10%)	\$3,383,000
Project Subtotal	\$43,306,000
Inflation (30%)	\$12,991,800
Subtotal	\$56,298,000
SEGMENT 4 CONCEPT B - RANGE 2	
Construction Subtotal	\$16,676,000
Contingency (30%)	\$5,003,000
Construction Total	\$21,679,000
Right-of-Way	\$0
Engineering (18%)	\$3,902,000
Construction Engineering (10%)	\$2,168,000
Project Subtotal	\$27,749,000
Inflation (30%)	\$8,324,700
Subtotal	\$36,074,000
SEGMENT 4 CONCEPT B - RANGE 3	
Construction Subtotal	\$16,102,000
Contingency (30%)	\$4,831,000
Construction Total	\$20,933,000
Right-of-Way	\$0
Engineering (18%)	\$3,768,000
Construction Engineering (10%)	\$2,093,000
Project Subtotal	\$26,794,000
Inflation (30%)	\$8,038,200
Subtotal	\$34,832,000
SEGMENT 4 CONCEPT B - RANGE 4	
Construction Subtotal	\$11,627,000
Contingency (30%)	\$3,488,000
Construction Total	\$15,115,000
Right-of-Way	\$0
Engineering (18%)	\$2,721,000
Construction Engineering (10%)	\$1,512,000
Project Subtotal	\$19,348,000
Inflation (30%)	\$5,804,400
Subtotal	\$25,152,000
SEGMENT 4 - OVERALL	
SEGMENT 4 CONCEPT B - RANGE 1	\$56,298,000
SEGMENT 4 CONCEPT B - RANGE 2	\$36,074,000
SEGMENT 4 CONCEPT B - RANGE 3	\$34,832,000
SEGMENT 4 CONCEPT B - RANGE 4	\$25,152,000
Total - Segment 4 - Overall	\$152,356,000

Construction w/ Contingency w/out Inflation
\$117,197,000

Estimate completed by:



SEGMENT 4 CONCEPT B - RANGE 1
104+50.00 TO 160+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	23,723	SY	\$20.00	\$474,462.01
CULVERT REMOVED	250	FT	\$100.00	\$25,000.00
EXCAVATION	28,058	CY	\$40.00	\$1,122,315.78
EMBANKMENT	74,645	CY	\$45.00	\$3,359,041.09
GUARDRAIL	1,400	FT	\$22.00	\$30,800.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	415	FT	\$42.00	\$17,430.00
CONCRETE MEDIAN	305	SY	\$100.00	\$30,469.36
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$5,059,518.24

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	250,000	EACH	\$1.00	\$250,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$148,000.00	\$148,000.00
SEEDING AND MULCHING	34,342	SY	\$2.00	\$68,683.76
Erosion Control Subtotal				\$516,683.76

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	350	FT	\$600.00	\$210,000.00
STORM SEWER SYSTEM	415	FT	\$300.00	\$124,500.00
UNDERDRAINS	30,376	FT	\$15.00	\$455,640.00
Drainage Subtotal				\$790,140.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	32,352	SY	\$100.00	\$3,235,236.06
FULL DEPTH PAVEMENT, CONCRETE	6,622	SY	\$150.00	\$993,358.10
PAVEMENT PLANING AND RESURFACING	32,346	SY	\$54.00	\$1,746,691.76
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$5,975,285.92

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$464,015.15
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$11,136.36
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$31,818.18
Traffic Control - Signing and Pavement Marking Subtotal				\$506,969.70

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$180,303.03
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,026,303.03

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	1350	FT	\$200.00	\$270,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	6	EACH	\$1,500,000.00	\$9,000,000.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$9,270,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	830	SF	\$90.00	\$38,700.00
BRIDGE	7,134	SF	\$220.00	\$1,569,397.50
Structures Subtotal				\$1,608,097.50

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$32,000.00	\$32,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$490,000.00	\$490,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$972,000.00

Project Summary	Subtotal
Roadway	\$5,059,518
Erosion Control	\$516,684
Drainage	\$790,140
Pavement	\$5,975,286
Traffic Control - Signing and Pavement Marking	\$506,970
Traffic Signal and Surveillance	\$1,026,303
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$9,270,000
Structures	\$1,608,098
Incidentals	\$972,000
Total	\$26,025,000

Contingency (30%)	\$7,808,000
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Subtotal	\$33,833,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,090,000
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Construction Engineering (10%)	\$3,383,000
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Subtotal	\$43,306,000
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Inflation (30%)	\$12,991,800
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Project Total (2030 Dollars)	\$56,298,000
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Estimate completed by:
 ms consultants, inc.
 engineers, architects, planners

SEGMENT 4 CONCEPT B - RANGE 2
160+50.00 TO 210+00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	25,630	SY	\$20.00	\$512,606.70
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	46,607	CY	\$40.00	\$1,864,280.98
EMBANKMENT	40,435	CY	\$45.00	\$1,819,585.22
GUARDRAIL	2,500	FT	\$22.00	\$55,000.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	1,250	FT	\$42.00	\$52,500.00
CONCRETE MEDIAN	433	SY	\$100.00	\$43,280.57
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$4,347,253.46

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	298,000	EACH	\$1.00	\$298,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$181,000.00	\$181,000.00
SEEDING AND MULCHING	43,955	SY	\$2.00	\$87,910.68
Erosion Control Subtotal				\$616,910.68

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,250	FT	\$300.00	\$375,000.00
UNDERDRAINS	30,922	FT	\$15.00	\$463,830.00
Drainage Subtotal				\$838,830.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	33,714	SY	\$100.00	\$3,371,434.30
FULL DEPTH PAVEMENT, CONCRETE	8,904	SY	\$150.00	\$1,335,634.37
PAVEMENT PLANING AND RESURFACING	29,545	SY	\$54.00	\$1,595,428.86
SHARED USE PATH	693	SY	\$42.00	\$29,097.11
Pavement Subtotal				\$6,331,594.64

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$491,193.18
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$14,381.82
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$28,125.00
Traffic Control - Signing and Pavement Marking Subtotal				\$533,700.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$159,375.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,005,375.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	900	FT	\$200.00	\$180,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$180,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	7,097	SF	\$220.00	\$1,561,407.10
Structures Subtotal				\$1,561,407.10

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$30,000.00	\$30,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$481,000.00	\$481,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$961,000.00

Project Summary	Subtotal
Roadway	\$4,347,253
Erosion Control	\$616,911
Drainage	\$838,830
Pavement	\$6,331,595
Traffic Control - Signing and Pavement Marking	\$533,700
Traffic Signal and Surveillance	\$1,005,375
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$180,000
Structures	\$1,561,407
Incidentals	\$961,000
Total	\$16,676,000

Contingency (30%)	\$5,003,000
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Subtotal	\$21,679,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,902,000
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Construction Engineering (10%)	\$2,168,000
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Subtotal	\$27,749,000
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Inflation (30%)	\$8,324,700
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Project Total (2030 Dollars)	\$36,074,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planner

SEGMENT 4 CONCEPT B - RANGE 3
210+00.00 TO 250+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	12,510	SY	\$20.00	\$250,199.95
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	10,570	CY	\$40.00	\$422,809.93
EMBANKMENT	81,211	CY	\$45.00	\$3,654,495.17
GUARDRAIL	1,600	FT	\$22.00	\$35,200.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	5,200	FT	\$42.00	\$218,400.00
CONCRETE MEDIAN	215	SY	\$100.00	\$21,454.17
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$4,602,559.21

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	188,000	EACH	\$1.00	\$188,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$119,000.00	\$119,000.00
SEEDING AND MULCHING	26,056	SY	\$2.00	\$52,111.01
Erosion Control Subtotal				\$409,111.01

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,200	FT	\$300.00	\$1,560,000.00
UNDERDRAINS	21,550	FT	\$15.00	\$323,250.00
Drainage Subtotal				\$1,883,250.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	16,714	SY	\$100.00	\$1,671,439.57
FULL DEPTH PAVEMENT, CONCRETE	12,169	SY	\$150.00	\$1,825,307.77
PAVEMENT PLANING AND RESURFACING	24,276	SY	\$54.00	\$1,310,923.34
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$4,807,670.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$319,602.27
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$7,159.09
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$23,011.36
Traffic Control - Signing and Pavement Marking Subtotal				\$349,772.73

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$130,397.73
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$976,397.73

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	750	FT	\$200.00	\$150,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$150,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	1,170	SF	\$90.00	\$105,300.00
BRIDGE	7,859	SF	\$220.00	\$1,729,051.06
Structures Subtotal				\$1,834,351.06

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$78,000.00	\$78,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$311,000.00	\$311,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$789,000.00

Project Summary	Subtotal
Roadway	\$4,602,559
Erosion Control	\$409,111
Drainage	\$1,883,250
Pavement	\$4,807,671
Traffic Control - Signing and Pavement Marking	\$349,773
Traffic Signal and Surveillance	\$976,398
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$150,000
Structures	\$1,834,351
Incidentals	\$789,000
Total	\$16,102,000

Contingency (30%)	\$4,831,000
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Subtotal	\$20,933,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,768,000
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Construction Engineering (10%)	\$2,093,000
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Subtotal	\$26,794,000
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Inflation (30%)	\$8,038,200
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Project Total (2030 Dollars)	\$34,832,000
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Estimate completed by:



SEGMENT 4 CONCEPT B - RANGE 4
250+50.00 TO 294+33.41

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	6,466	SY	\$20.00	\$129,320.62
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	53,264	CY	\$40.00	\$2,130,552.06
EMBANKMENT	16,889	CY	\$45.00	\$759,990.45
GUARDRAIL	0	FT	\$22.00	\$0.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	8,500	FT	\$42.00	\$357,000.00
CONCRETE MEDIAN	73	SY	\$100.00	\$7,276.87
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$3,384,140.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	167,000	EACH	\$1.00	\$167,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$122,000.00	\$122,000.00
SEEDING AND MULCHING	26,918	SY	\$2.00	\$53,836.07
Erosion Control Subtotal				\$367,836.07

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	8,500	FT	\$300.00	\$2,550,000.00
UNDERDRAINS	17,550	FT	\$15.00	\$263,250.00
Drainage Subtotal				\$2,813,250.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	21,341	SY	\$100.00	\$2,134,052.68
PAVEMENT PLANING AND RESURFACING	27,695	SY	\$54.00	\$1,495,508.18
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$3,629,560.86

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$504,261.36
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$16,617.05
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$24,903.41
Traffic Control - Signing and Pavement Marking Subtotal				\$545,781.82

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$141,119.32
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$141,119.32

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	875	FT	\$200.00	\$175,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$175,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	\$1.00	LUMP	\$57,000.00	\$57,000.00
MAINTENANCE OF TRAFFIC	\$1.00	LUMP	\$113,000.00	\$113,000.00
MOBILIZATION	\$1.00	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$570,000.00

Project Summary	Subtotal
Roadway	\$3,384,140
Erosion Control	\$367,836
Drainage	\$2,813,250
Pavement	\$3,629,561
Traffic Control - Signing and Pavement Marking	\$545,782
Traffic Signal and Surveillance	\$141,119
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$175,000
Structures	\$0
Incidentals	\$570,000
Total	\$11,627,000

Contingency (30%)	\$3,488,000
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Subtotal	\$15,115,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,721,000
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Construction Engineering (10%)	\$1,512,000
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Subtotal	\$19,348,000
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Inflation (30%)	\$5,804,400
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Project Total (2030 Dollars)	\$25,152,000
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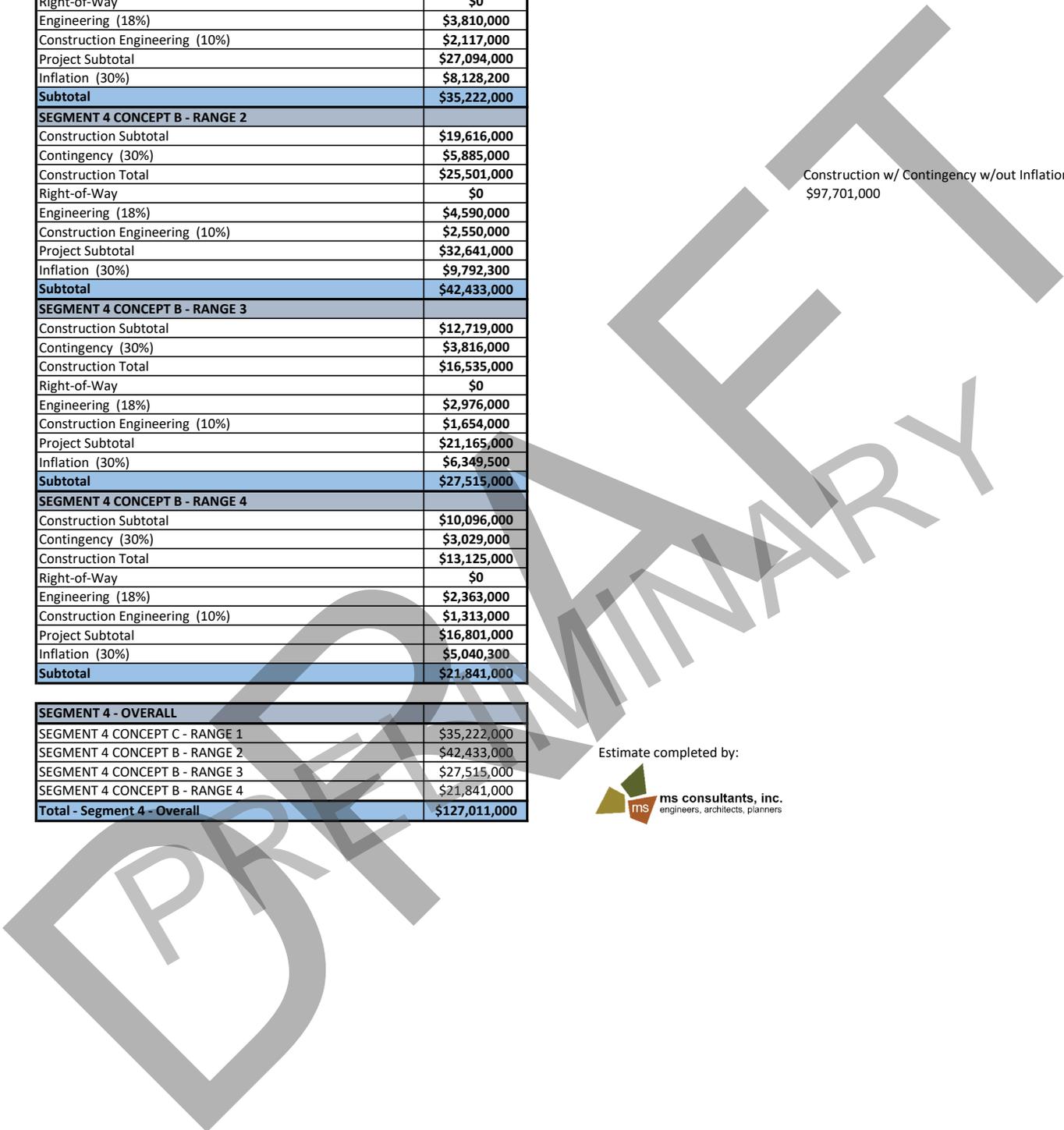
Estimate completed by:
 **ms consultants, inc**
 engineers, architects, planner

SEGMENT 4 CONCEPT C - OVERALL

SEGMENT 4 CONCEPT C - RANGE 1	
Construction Subtotal	\$16,282,000
Contingency (30%)	\$4,885,000
Construction Total	\$21,167,000
Right-of-Way	\$0
Engineering (18%)	\$3,810,000
Construction Engineering (10%)	\$2,117,000
Project Subtotal	\$27,094,000
Inflation (30%)	\$8,128,200
Subtotal	\$35,222,000
SEGMENT 4 CONCEPT B - RANGE 2	
Construction Subtotal	\$19,616,000
Contingency (30%)	\$5,885,000
Construction Total	\$25,501,000
Right-of-Way	\$0
Engineering (18%)	\$4,590,000
Construction Engineering (10%)	\$2,550,000
Project Subtotal	\$32,641,000
Inflation (30%)	\$9,792,300
Subtotal	\$42,433,000
SEGMENT 4 CONCEPT B - RANGE 3	
Construction Subtotal	\$12,719,000
Contingency (30%)	\$3,816,000
Construction Total	\$16,535,000
Right-of-Way	\$0
Engineering (18%)	\$2,976,000
Construction Engineering (10%)	\$1,654,000
Project Subtotal	\$21,165,000
Inflation (30%)	\$6,349,500
Subtotal	\$27,515,000
SEGMENT 4 CONCEPT B - RANGE 4	
Construction Subtotal	\$10,096,000
Contingency (30%)	\$3,029,000
Construction Total	\$13,125,000
Right-of-Way	\$0
Engineering (18%)	\$2,363,000
Construction Engineering (10%)	\$1,313,000
Project Subtotal	\$16,801,000
Inflation (30%)	\$5,040,300
Subtotal	\$21,841,000
SEGMENT 4 - OVERALL	
SEGMENT 4 CONCEPT C - RANGE 1	\$35,222,000
SEGMENT 4 CONCEPT B - RANGE 2	\$42,433,000
SEGMENT 4 CONCEPT B - RANGE 3	\$27,515,000
SEGMENT 4 CONCEPT B - RANGE 4	\$21,841,000
Total - Segment 4 - Overall	\$127,011,000

Construction w/ Contingency w/out Inflation
\$97,701,000

Estimate completed by:



SEGMENT 4 CONCEPT C - RANGE 1
104+50.00 TO 160+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	20,386	SY	\$20.00	\$407,713.46
CULVERT REMOVED	250	FT	\$100.00	\$25,000.00
EXCAVATION	32,317	CY	\$40.00	\$1,292,677.56
EMBANKMENT	11,677	CY	\$45.00	\$525,452.09
GUARDRAIL	1,000	FT	\$22.00	\$22,000.00
MEDIAN BARRIER	775	FT	\$120.00	\$93,000.00
CURB AND GUTTER	425	FT	\$42.00	\$17,850.00
CONCRETE MEDIAN	146	SY	\$100.00	\$14,553.74
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,398,246.85

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	198,000	LUMP	\$1.00	\$198,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$128,000.00	\$128,000.00
SEEDING AND MULCHING	28,573	SY	\$2.00	\$57,145.55
Erosion Control Subtotal				\$408,145.55

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	400	FT	\$600.00	\$240,000.00
STORM SEWER SYSTEM	1,200	FT	\$300.00	\$360,000.00
UNDERDRAINS	25,200	FT	\$15.00	\$378,000.00
Drainage Subtotal				\$978,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	47,775	SY	\$100.00	\$4,777,478.00
PAVEMENT PLANING AND RESURFACING	33,394	SY	\$54.00	\$1,803,301.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$6,580,779.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$333,806.82
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$3,314.39
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$32,954.55
Traffic Control - Signing and Pavement Marking Subtotal				\$370,075.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$180,303.03
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$1,083,303.03

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	3150	FT	\$200.00	\$630,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	2	EACH	\$1,500,000.00	\$3,000,000.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$3,630,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$62,000.00	\$62,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$371,000.00	\$371,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$833,000.00

Project Summary	Subtotal
Roadway	\$2,398,247
Erosion Control	\$408,146
Drainage	\$978,000
Pavement	\$6,580,779
Traffic Control - Signing and Pavement Marking	\$370,076
Traffic Signal and Surveillance	\$1,083,303
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$3,630,000
Structures	\$0
Incidentals	\$833,000
Total	\$16,282,000

Contingency (30%)	\$4,885,000
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Subtotal	\$21,167,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,810,000
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Construction Engineering (10%)	\$2,117,000
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Subtotal	\$27,094,000
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Inflation (30%)	\$8,128,200
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Project Total (2030 Dollars)	\$35,222,000
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Estimate completed by:
 **ms consultants, inc.**
 engineers, architects, planners

SEGMENT 4 CONCEPT B - RANGE 2
160+50.00 TO 210+00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,209	SY	\$20.00	\$524,182.54
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	74,929	CY	\$40.00	\$2,997,158.25
EMBANKMENT	35,057	CY	\$45.00	\$1,577,580.26
GUARDRAIL	1,600	FT	\$22.00	\$35,200.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	2,200	FT	\$42.00	\$92,400.00
CONCRETE MEDIAN	433	SY	\$100.00	\$43,275.22
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$5,269,796.26

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	340,000	EACH	\$1.00	\$340,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$234,000.00	\$234,000.00
SEEDING AND MULCHING	60,698	SY	\$2.00	\$121,396.34
Erosion Control Subtotal				\$745,396.34

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,200	FT	\$300.00	\$660,000.00
UNDERDRAINS	31,622	FT	\$15.00	\$474,330.00
Drainage Subtotal				\$1,134,330.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	45,826	SY	\$100.00	\$4,582,629.42
FULL DEPTH PAVEMENT, CONCRETE	10,003	SY	\$150.00	\$1,500,507.63
PAVEMENT PLANING AND RESURFACING	29,337	SY	\$54.00	\$1,584,199.67
SHARED USE PATH	693	SY	\$42.00	\$29,097.11
Pavement Subtotal				\$7,696,433.83

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$484,090.91
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$13,984.09
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$28,125.00
Traffic Control - Signing and Pavement Marking Subtotal				\$526,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$159,375.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,005,375.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2950	FT	\$200.00	\$590,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$590,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	5,920	SF	\$220.00	\$1,302,400.00
Structures Subtotal				\$1,302,400.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$92,000.00	\$92,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$554,000.00	\$554,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$1,046,000.00

Project Summary	Subtotal
Roadway	\$5,269,796
Erosion Control	\$745,396
Drainage	\$1,134,330
Pavement	\$7,696,434
Traffic Control - Signing and Pavement Marking	\$526,200
Traffic Signal and Surveillance	\$1,005,375
Roadway Lighting	\$300,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$590,000
Structures	\$1,302,400
Incidentals	\$1,046,000
Total	\$19,616,000

Contingency (30%)	\$5,885,000
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Subtotal	\$25,501,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,590,000
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Construction Engineering (10%)	\$2,550,000
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Subtotal	\$32,641,000
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Inflation (30%)	\$9,792,300
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Project Total (2030 Dollars)	\$42,433,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planner

SEGMENT 4 CONCEPT B - RANGE 3
210+00.00 TO 250+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,914	SY	\$20.00	\$298,278.17
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	39,496	CY	\$40.00	\$1,579,825.23
EMBANKMENT	13,580	CY	\$45.00	\$611,085.56
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	2,300	FT	\$120.00	\$276,000.00
CURB AND GUTTER	3,250	FT	\$42.00	\$136,500.00
CONCRETE MEDIAN	433	SY	\$100.00	\$43,275.22
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,955,964.18

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	215,000	EACH	\$1.00	\$215,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$155,000.00	\$155,000.00
SEEDING AND MULCHING	36,233	SY	\$2.00	\$72,466.45
Erosion Control Subtotal				\$467,466.45

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,550	FT	\$300.00	\$1,665,000.00
UNDERDRAINS	20,742	FT	\$15.00	\$311,130.00
Drainage Subtotal				\$1,976,130.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	36,625	SY	\$100.00	\$3,662,525.92
PAVEMENT PLANING AND RESURFACING	25,865	SY	\$54.00	\$1,396,732.73
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$5,059,258.66

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$310,227.27
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$6,103.79
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$24,147.73
Traffic Control - Signing and Pavement Marking Subtotal				\$340,478.79

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$130,397.73
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$1,033,397.73

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	900	FT	\$200.00	\$180,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$180,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$61,000.00	\$61,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$245,000.00	\$245,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$706,000.00

Project Summary	Subtotal
Roadway	\$2,955,964
Erosion Control	\$467,466
Drainage	\$1,976,130
Pavement	\$5,059,259
Traffic Control - Signing and Pavement Marking	\$340,479
Traffic Signal and Surveillance	\$1,033,398
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$180,000
Structures	\$0
Incidentals	\$706,000
Total	\$12,719,000

Contingency (30%)	\$3,816,000
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Subtotal	\$16,535,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,976,000
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Construction Engineering (10%)	\$1,654,000
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Subtotal	\$21,165,000
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Inflation (30%)	\$6,349,500
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Project Total (2030 Dollars)	\$27,515,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planner

SEGMENT 4 CONCEPT B - RANGE 4
250+50.00 TO 294+33.41

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	10,446	SY	\$20.00	\$208,914.23
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	21,490	CY	\$40.00	\$859,585.76
EMBANKMENT	23,693	CY	\$45.00	\$1,066,178.93
GUARDRAIL	3,000	FT	\$22.00	\$66,000.00
MEDIAN BARRIER	4,400	FT	\$120.00	\$528,000.00
CURB AND GUTTER	0	FT	\$42.00	\$0.00
CONCRETE MEDIAN	38	SY	\$100.00	\$3,753.73
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,732,432.65

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	178,000	EACH	\$1.00	\$178,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$131,000.00	\$131,000.00
SEEDING AND MULCHING	29,339	SY	\$2.00	\$58,677.22
Erosion Control Subtotal				\$392,677.22

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,400	FT	\$300.00	\$1,320,000.00
UNDERDRAINS	17,532	FT	\$15.00	\$262,980.00
Drainage Subtotal				\$1,582,980.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	24,248	SY	\$100.00	\$2,424,753.58
PAVEMENT PLANING AND RESURFACING	34,110	SY	\$54.00	\$1,841,937.17
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$4,266,690.75

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$216,998.11
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$530.30
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$24,903.41
Traffic Control - Signing and Pavement Marking Subtotal				\$242,431.82

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$141,119.32
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$141,119.32

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	450	FT	\$200.00	\$90,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	1	LUMP	\$100,000.00	\$100,000.00
Water/Wastewater Subtotal				\$190,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$49,000.00	\$49,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$99,000.00	\$99,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$548,000.00

Project Summary	Subtotal
Roadway	\$2,732,433
Erosion Control	\$392,677
Drainage	\$1,582,980
Pavement	\$4,266,691
Traffic Control - Signing and Pavement Marking	\$242,432
Traffic Signal and Surveillance	\$141,119
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$190,000
Structures	\$0
Incidentals	\$548,000
Total	\$10,096,000

Contingency (30%)	\$3,029,000
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Subtotal	\$13,125,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,363,000
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Construction Engineering (10%)	\$1,313,000
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Subtotal	\$16,801,000
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Inflation (30%)	\$5,040,300
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Project Total (2030 Dollars)	\$21,841,000
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Estimate completed by:
 ms consultants, inc
engineers, architects, planner

SEGMENT 4 CONCEPT D - OVERALL

SEGMENT 4 CONCEPT D - RANGE 1	
Construction Subtotal	\$12,293,000
Contingency (30%)	\$3,688,000
Construction Total	\$15,981,000
Right-of-Way	\$0
Engineering (18%)	\$2,877,000
Construction Engineering (10%)	\$1,598,000
Project Subtotal	\$20,456,000
Inflation (30%)	\$6,136,800
Subtotal	\$26,593,000
SEGMENT 4 CONCEPT D - RANGE 2	
Construction Subtotal	\$12,858,000
Contingency (30%)	\$3,857,000
Construction Total	\$16,715,000
Right-of-Way	\$0
Engineering (18%)	\$3,009,000
Construction Engineering (10%)	\$1,672,000
Project Subtotal	\$21,396,000
Inflation (30%)	\$6,418,800
Subtotal	\$27,815,000
SEGMENT 4 CONCEPT D - RANGE 3	
Construction Subtotal	\$9,187,000
Contingency (30%)	\$2,756,000
Construction Total	\$11,943,000
Right-of-Way	\$0
Engineering (18%)	\$2,150,000
Construction Engineering (10%)	\$1,194,000
Project Subtotal	\$15,287,000
Inflation (30%)	\$4,586,100
Subtotal	\$19,873,000
SEGMENT 4 CONCEPT D - RANGE 4	
Construction Subtotal	\$9,765,000
Contingency (30%)	\$2,930,000
Construction Total	\$12,695,000
Right-of-Way	\$0
Engineering (18%)	\$2,285,000
Construction Engineering (10%)	\$1,270,000
Project Subtotal	\$16,250,000
Inflation (30%)	\$4,875,000
Subtotal	\$21,125,000
SEGMENT 4 - OVERALL	
SEGMENT 4 CONCEPT D - RANGE 1	\$26,593,000
SEGMENT 4 CONCEPT D - RANGE 2	\$27,815,000
SEGMENT 4 CONCEPT D - RANGE 3	\$19,873,000
SEGMENT 4 CONCEPT D - RANGE 4	\$21,125,000
Total - Segment 4 - Overall	\$95,406,000

Construction w/ Contingency w/out Inflation
\$73,389,000

Estimate completed by:



PRELIMINARY

SEGMENT 4 CONCEPT D - RANGE 1
104+50.00 TO 160+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,834	SY	\$20.00	\$296,676.99
CULVERT REMOVED	250	FT	\$100.00	\$25,000.00
EXCAVATION	29,449	CY	\$40.00	\$1,177,949.51
EMBANKMENT	10,359	CY	\$45.00	\$466,132.92
GUARDRAIL	750	FT	\$22.00	\$16,500.00
MEDIAN BARRIER	1,350	FT	\$120.00	\$162,000.00
CURB AND GUTTER	425	FT	\$42.00	\$17,850.00
CONCRETE MEDIAN	146	SY	\$100.00	\$14,553.74
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,176,663.16

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	187,061	EACH	\$1.00	\$187,061.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$128,000.00	\$128,000.00
SEEDING AND MULCHING	28,657	SY	\$2.00	\$57,314.86
Erosion Control Subtotal				\$397,375.86

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	400	FT	\$600.00	\$240,000.00
STORM SEWER SYSTEM	1,775	FT	\$300.00	\$532,500.00
UNDERDRAINS	22,400	FT	\$15.00	\$336,000.00
Drainage Subtotal				\$1,108,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	37,846	SY	\$100.00	\$3,784,563.98
PAVEMENT PLANING AND RESURFACING	35,008	SY	\$54.00	\$1,890,427.13
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$5,674,991.11

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$280,686.65
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$869.97
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$31,818.18
Traffic Control - Signing and Pavement Marking Subtotal				\$313,374.80

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$180,303.03
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,506,303.03

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2700	FT	\$200.00	\$540,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$540,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$59,000.00	\$59,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$117,000.00	\$117,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$576,000.00

Project Summary	Subtotal
Roadway	\$2,176,663
Erosion Control	\$397,376
Drainage	\$1,108,500
Pavement	\$5,674,991
Traffic Control - Signing and Pavement Marking	\$313,375
Traffic Signal and Surveillance	\$1,506,303
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$540,000
Structures	\$0
Incidentals	\$576,000
Total	\$12,293,000

Contingency (30%)	\$3,688,000
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Subtotal	\$15,981,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,877,000
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Construction Engineering (10%)	\$1,598,000
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Subtotal	\$20,456,000
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Inflation (30%)	\$6,136,800
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Project Total (2030 Dollars)	\$26,593,000
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Estimate completed by:
 ms consultants, inc
 engineers architects planners

SEGMENT 4 CONCEPT D - RANGE 2
160+50.00 TO 210+00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,160	SY	\$20.00	\$523,209.76
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	28,105	CY	\$40.00	\$1,124,201.85
EMBANKMENT	8,623	CY	\$45.00	\$388,014.20
GUARDRAIL	1,250	FT	\$22.00	\$27,500.00
MEDIAN BARRIER	660	FT	\$120.00	\$79,200.00
CURB AND GUTTER	2,755	FT	\$42.00	\$115,710.00
CONCRETE MEDIAN	1,293	SY	\$100.00	\$129,328.91
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,387,164.73

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	204,022	EACH	\$1.00	\$204,022.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$147,000.00	\$147,000.00
SEEDING AND MULCHING	33,925	SY	\$2.00	\$67,849.97
Erosion Control Subtotal				\$443,871.97

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	3,415	FT	\$300.00	\$1,024,500.00
UNDERDRAINS	19,800	FT	\$15.00	\$297,000.00
Drainage Subtotal				\$1,321,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	48,675	SY	\$100.00	\$4,867,500.42
PAVEMENT PLANING AND RESURFACING	29,340	SY	\$54.00	\$1,584,351.13
SHARED USE PATH	693	SY	\$42.00	\$29,106.00
Pavement Subtotal				\$6,480,957.55

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2	MILE	\$250,000.00	\$423,495.08
PAVEMENT MARKINGS - THERMO	1	MILE	\$14,000.00	\$10,590.72
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$28,125.00
Traffic Control - Signing and Pavement Marking Subtotal				\$462,210.80

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$159,375.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$582,375.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2850	FT	\$200.00	\$570,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$570,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	300	SF	\$90.00	\$27,000.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$27,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$61,000.00	\$61,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$122,000.00	\$122,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$583,000.00

Project Summary	Subtotal
Roadway	\$2,387,165
Erosion Control	\$443,872
Drainage	\$1,321,500
Pavement	\$6,480,958
Traffic Control - Signing and Pavement Marking	\$462,211
Traffic Signal and Surveillance	\$582,375
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$570,000
Structures	\$27,000
Incidentals	\$583,000
Total	\$12,858,000

Contingency (30%)	\$3,857,000
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Subtotal	\$16,715,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,009,000
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Construction Engineering (10%)	\$1,672,000
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Subtotal	\$21,396,000
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Inflation (30%)	\$6,418,800
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Project Total (2030 Dollars)	\$27,815,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planner

SEGMENT 4 CONCEPT D - RANGE 3
210+00.00 TO 250+50.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,686	SY	\$20.00	\$293,723.48
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	15,938	CY	\$40.00	\$637,510.85
EMBANKMENT	7,626	CY	\$45.00	\$343,160.99
GUARDRAIL	1,600	FT	\$22.00	\$35,200.00
MEDIAN BARRIER	2,110	FT	\$120.00	\$253,200.00
CURB AND GUTTER	2,670	FT	\$42.00	\$112,140.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$1,674,935.32

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	124,030	EACH	\$1.00	\$124,030.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$90,000.00	\$90,000.00
SEEDING AND MULCHING	18,224	SY	\$2.00	\$36,447.55
Erosion Control Subtotal				\$275,477.55

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,780	FT	\$300.00	\$1,434,000.00
UNDERDRAINS	16,200	FT	\$15.00	\$243,000.00
Drainage Subtotal				\$1,677,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	28,478	SY	\$100.00	\$2,847,765.33
PAVEMENT PLANING AND RESURFACING	26,387	SY	\$54.00	\$1,424,871.26
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$4,272,636.60

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$272,892.99
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$4,543.37
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$23,011.36
Traffic Control - Signing and Pavement Marking Subtotal				\$300,447.73

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$130,397.73
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$553,397.73

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	475	FT	\$200.00	\$95,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$95,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$46,000.00	\$46,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$92,000.00	\$92,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$338,000.00

Project Summary	Subtotal
Roadway	\$1,674,935
Erosion Control	\$275,478
Drainage	\$1,677,000
Pavement	\$4,272,637
Traffic Control - Signing and Pavement Marking	\$300,448
Traffic Signal and Surveillance	\$553,398
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$95,000
Structures	\$0
Incidentals	\$338,000
Total	\$9,187,000

Contingency (30%)	\$2,756,000
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Subtotal	\$11,943,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,150,000
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Construction Engineering (10%)	\$1,194,000
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Subtotal	\$15,287,000
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Inflation (30%)	\$4,586,100
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Project Total (2030 Dollars)	\$19,873,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planners

SEGMENT 4 CONCEPT D - RANGE 4
250+50.00 TO 294+33.41

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	10,106	SY	\$20.00	\$202,129.17
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	19,825	CY	\$40.00	\$793,018.98
EMBANKMENT	23,503	CY	\$45.00	\$1,057,648.05
GUARDRAIL	4,100	FT	\$22.00	\$90,200.00
MEDIAN BARRIER	4,235	FT	\$120.00	\$508,211.16
CURB AND GUTTER	0	FT	\$42.00	\$0.00
CONCRETE MEDIAN	30	SY	\$100.00	\$2,950.62
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,654,157.98

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	165,900	EACH	1	\$165,900.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$122,000.00	\$122,000.00
SEEDING AND MULCHING	26,756	SY	\$2.00	\$53,512.58
Erosion Control Subtotal				\$366,412.58

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,235	FT	\$300.00	\$1,270,527.90
UNDERDRAINS	17,536	FT	\$15.00	\$263,040.00
Drainage Subtotal				\$1,533,567.90

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	24,815	SY	\$100.00	\$2,481,460.56
PAVEMENT PLANING AND RESURFACING	33,601	SY	\$54.00	\$1,814,467.13
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$4,295,927.69

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$216,791.62
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$517.65
PAVEMENT MARKINGS - RECESSED	1	MILE	\$30,000.00	\$24,905.74
Traffic Control - Signing and Pavement Marking Subtotal				\$242,215.01

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$141,119.32
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$141,119.32

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	425	FT	\$200.00	\$85,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	1	LUMP	\$100,000.00	\$100,000.00
Water/Wastewater Subtotal				\$185,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$49,000.00	\$49,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$98,000.00	\$98,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$347,000.00

Project Summary	Subtotal
Roadway	\$2,654,158
Erosion Control	\$366,413
Drainage	\$1,533,568
Pavement	\$4,295,928
Traffic Control - Signing and Pavement Marking	\$242,215
Traffic Signal and Surveillance	\$141,119
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$185,000
Structures	\$0
Incidentals	\$347,000
Total	\$9,765,000

Contingency (30%)	\$2,930,000
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Subtotal	\$12,695,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,285,000
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Construction Engineering (10%)	\$1,270,000
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Subtotal	\$16,250,000
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Inflation (30%)	\$4,875,000
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Project Total (2030 Dollars)	\$21,125,000
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Estimate completed by:
 ms consultants, inc
 engineers, architects, planner

SEGMENT 5 CONCEPT A - OVERALL

SEGMENT 5 CONCEPT A - RANGE 1	Quantity
Construction Subtotal	\$48,998,000
Contingency (30%)	\$14,699,000
Construction Total	\$63,697,000
Right-of-Way	\$0
Engineering (18%)	\$11,465,000
Construction Engineering (10%)	\$6,370,000
Project Subtotal	\$81,532,000
Inflation (30%)	\$24,459,600
Subtotal	\$105,992,000
SEGMENT 5 CONCEPT A - RANGE 2	
Construction Subtotal	\$9,785,000
Contingency (30%)	\$2,936,000
Construction Total	\$12,721,000
Right-of-Way	\$0
Engineering (18%)	\$2,290,000
Construction Engineering (10%)	\$1,272,000
Project Subtotal	\$16,283,000
Inflation (30%)	\$4,884,900
Subtotal	\$21,168,000
SEGMENT 5 CONCEPT A - RANGE 3	
Construction Subtotal	\$15,068,000
Contingency (30%)	\$4,520,000
Construction Total	\$19,588,000
Right-of-Way	\$0
Engineering (18%)	\$3,526,000
Construction Engineering (10%)	\$1,959,000
Project Subtotal	\$25,073,000
Inflation (30%)	\$7,521,900
Subtotal	\$32,595,000
SEGMENT 5 CONCEPT A - RANGE 4	
Construction Subtotal	\$42,867,000
Contingency (30%)	\$12,860,000
Construction Total	\$55,727,000
Right-of-Way	\$0
Engineering (18%)	\$10,031,000
Construction Engineering (10%)	\$5,573,000
Project Subtotal	\$71,331,000
Inflation (30%)	\$21,399,300
Subtotal	\$92,730,000
SEGMENT 7 - OVERALL	
SEGMENT 5 CONCEPT A - RANGE 1	\$105,992,000
SEGMENT 5 CONCEPT A - RANGE 2	\$21,168,000
SEGMENT 5 CONCEPT A - RANGE 3	\$32,595,000
SEGMENT 5 CONCEPT A - RANGE 4	\$92,730,000
Total - Segment 5 - Overall	\$252,485,000

Construction w/ Contingency w/out Inflation
\$194,219,000

Estimate completed by:



PRELIMINARY

SEGMENT 5 CONCEPT A - RANGE 1
452 + 65.00 to 500 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	38,862	SY	\$20.00	\$777,240.00
CULVERT REMOVED	80	FT	\$100.00	\$8,000.00
EXCAVATION	47,498	CY	\$40.00	\$1,899,925.04
EMBANKMENT	252,483	CY	\$45.00	\$11,361,726.09
GUARDRAIL	4,100	FT	\$22.00	\$90,200.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	3,969	FT	\$42.00	\$166,698.00
CONCRETE MEDIAN	3,782	SY	\$100.00	\$378,200.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$14,681,989.13

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	570,000	EACH	1	\$570,000.00
EROSION CONTROL PLAN	1	LUMP	\$75,000.00	\$75,000.00
BMPs	1	LUMP	\$380,000.00	\$380,000.00
SEEDING AND MULCHING	114,873	SY	\$2.00	\$229,745.11
Erosion Control Subtotal				\$1,254,745.11

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	80	FT	\$600.00	\$48,000.00
STORM SEWER SYSTEM	12,100	FT	\$300.00	\$3,630,000.00
UNDERDRAINS	12,100	FT	\$15.00	\$181,500.00
Drainage Subtotal				\$3,859,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	48,917	SY	\$100.00	\$4,891,722.49
FULL DEPTH PAVEMENT, CONCRETE	16,083	SY	\$150.00	\$2,412,416.27
PAVEMENT PLANING AND RESURFACING	16,112	SY	\$54.00	\$870,048.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$8,174,186.76

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	4	MILE	\$250,000.00	\$1,000,000.00
PAVEMENT MARKINGS - THERMO	3.0	MILE	\$14,000.00	\$42,000.00
PAVEMENT MARKINGS - RECESSED	1.0	MILE	\$30,000.00	\$30,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$1,072,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2.5	MILE	\$170,000.00	\$425,000.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,271,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	6500	FT	\$100.00	\$650,000.00
Traffic Control - Traffic Signal Subtotal				\$1,150,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2800	FT	\$200.00	\$560,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	2	EACH	\$1,500,000.00	\$3,000,000.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	1	LUMP	\$10,000,000.00	\$10,000,000.00
Water/Wastewater Subtotal				\$13,560,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	10,589	SF	\$220.00	\$2,329,580.00
Structures Subtotal				\$2,329,580.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$169,000.00	\$169,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$676,000.00	\$676,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,645,000.00

Project Summary	Subtotal
Roadway	\$14,681,989
Erosion Control	\$1,254,745
Drainage	\$3,859,500
Pavement	\$8,174,187
Traffic Control - Signing and Pavement Marking	\$1,072,000
Traffic Signal and Surveillance	\$1,271,000
Roadway Lighting	\$1,150,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$13,560,000
Structures	\$2,329,580
Incidentals	\$1,645,000
Total	\$48,998,000

Contingency (30%)	\$14,699,000
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Subtotal	\$63,697,000
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Right-of-Way	\$0
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Engineering (18%)	\$11,465,000
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Construction Engineering (10%)	\$6,370,000
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Subtotal	\$81,532,000
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Inflation (30%)	\$24,459,600
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Project Total (2030 Dollars)	\$105,992,000
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Estimate completed by:



SEGMENT 5 CONCEPT A - RANGE 2
500 + 00.00 TO 515 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	17,500	SY	\$20.00	\$350,000.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	23,210	CY	\$40.00	\$928,408.68
EMBANKMENT	32,967	CY	\$45.00	\$1,483,493.27
GUARDRAIL	625	FT	\$22.00	\$13,750.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	5,200	FT	\$42.00	\$218,400.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,998,051.95

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	150,000	LUMP	1	\$150,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$125,000.00	\$125,000.00
SEEDING AND MULCHING	29,462	SY	\$2.00	\$58,923.30
Erosion Control Subtotal				\$358,923.30

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	6,200	FT	\$300.00	\$1,860,000.00
UNDERDRAINS	6,200	FT	\$15.00	\$93,000.00
Drainage Subtotal				\$1,977,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	16,200	SY	\$100.00	\$1,620,000.00
PAVEMENT PLANING AND RESURFACING	14,467	SY	\$54.00	\$781,218.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,401,218.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$250,000.00
PAVEMENT MARKINGS - THERMO	0.3	MILE	\$34,000.00	\$10,200.00
PAVEMENT MARKINGS - RECESSED	1.0	MILE	\$29,100.00	\$29,100.00
Traffic Control - Signing and Pavement Marking Subtotal				\$345,520.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$170,000.00
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$204,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4500	FT	\$100.00	\$450,000.00
Traffic Control - Traffic Signal Subtotal				\$450,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	867	FT	\$200.00	\$173,400.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$173,400.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	2,030	SF	\$220.00	\$446,600.00
Structures Subtotal				\$446,600.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$46,000.00	\$46,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$184,000.00	\$184,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$430,000.00

Project Summary	Subtotal
Roadway	\$2,998,052
Erosion Control	\$358,923
Drainage	\$1,977,000
Pavement	\$2,401,218
Traffic Control - Signing and Pavement Marking	\$345,520
Traffic Signal and Surveillance	\$204,000
Roadway Lighting	\$450,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$173,400
Structures	\$446,600
Incidentals	\$430,000
Total	\$9,785,000

Contingency (30%)	\$2,936,000
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Subtotal	\$12,721,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,290,000
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Construction Engineering (10%)	\$1,272,000
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Subtotal	\$16,283,000
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Inflation (30%)	\$4,884,900
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Project Total (2030 Dollars)	\$21,168,000
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Estimate completed by:



SEGMENT 5 CONCEPT A - RANGE 3
515 + 00.00 TO 535 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	22,500	SY	\$20.00	\$450,000.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	106,017	CY	\$40.00	\$4,240,696.59
EMBANKMENT	17,953	CY	\$45.00	\$807,889.72
GUARDRAIL	750	FT	\$22.00	\$16,500.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,300	FT	\$42.00	\$264,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$5,783,686.31

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	725,000	EACH	1	\$725,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$485,000.00	\$485,000.00
SEEDING AND MULCHING	159,797	SY	\$2.00	\$319,593.63
Erosion Control Subtotal				\$1,554,593.63

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	5,800	FT	\$300.00	\$1,740,000.00
UNDERDRAINS	5,800	FT	\$15.00	\$87,000.00
Drainage Subtotal				\$1,851,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	17,800	SY	\$100.00	\$1,780,000.00
PAVEMENT PLANING AND RESURFACING	12,520	SY	\$54.00	\$676,080.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,456,080.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.6	MILE	\$250,000.00	\$405,000.00
PAVEMENT MARKINGS - THERMO	0.4	MILE	\$14,000.00	\$5,600.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$447,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$204,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	6500	FT	\$100.00	\$650,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	420	FT	\$200.00	\$84,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$84,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	5,824	SF	\$220.00	\$1,281,280.00
Structures Subtotal				\$1,281,280.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$71,000.00	\$71,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$285,000.00	\$285,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$756,000.00

Project Summary	Subtotal
Roadway	\$5,783,686
Erosion Control	\$1,554,594
Drainage	\$1,851,000
Pavement	\$2,456,080
Traffic Control - Signing and Pavement Marking	\$447,200
Traffic Signal and Surveillance	\$204,000
Roadway Lighting	\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$84,000
Structures	\$1,281,280
Incidentals	\$756,000
Total	\$15,068,000

Contingency (30%)	\$4,520,000
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Subtotal	\$19,588,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,526,000
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Construction Engineering (10%)	\$1,959,000
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Subtotal	\$25,073,000
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Inflation (30%)	\$7,521,900
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Project Total (2030 Dollars)	\$32,595,000
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Estimate completed by:



SEGMENT 5 CONCEPT A - RANGE 4
535 + 00.00 TO 573 + 68.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	27,520	SY	\$20.00	\$550,400.00
CULVERT REMOVED	80	FT	\$100.00	\$8,000.00
EXCAVATION	365,067	CY	\$40.00	\$14,602,680.00
EMBANKMENT	156,703	CY	\$45.00	\$7,051,635.00
GUARDRAIL	3,600	FT	\$22.00	\$79,200.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,520	FT	\$42.00	\$273,840.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$22,565,755.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	550,000	EACH	1	\$550,000.00
EROSION CONTROL PLAN	1	LUMP	\$75,000.00	\$75,000.00
BMPs	1	LUMP	\$355,000.00	\$355,000.00
SEEDING AND MULCHING	118,236	SY	\$2.00	\$236,472.00
Erosion Control Subtotal				\$1,216,472.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	80	FT	\$600.00	\$48,000.00
STORM SEWER SYSTEM	6,000	FT	\$300.00	\$1,800,000.00
UNDERDRAINS	6,000	FT	\$15.00	\$90,000.00
Drainage Subtotal				\$1,938,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	32,000	SY	\$100.00	\$3,200,000.00
FULL DEPTH PAVEMENT, CONCRETE	37,088	SY	\$150.00	\$5,563,141.77
PAVEMENT PLANING AND RESURFACING	12,480	SY	\$54.00	\$673,920.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$9,437,061.77

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.4	MILE	\$250,000.00	\$600,000.00
PAVEMENT MARKINGS - THERMO	1.2	MILE	\$14,000.00	\$16,800.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$652,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2	MILE	\$170,000.00	\$380,800.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,226,800.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3500	FT	\$100.00	\$350,000.00
Traffic Control - Traffic Signal Subtotal				\$850,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	220	FT	\$200.00	\$44,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$44,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	12,350	SF	\$220.00	\$2,717,000.00
Pavement Subtotal				\$2,717,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	\$1.00	LUMP	\$204,000.00	\$204,000.00
MAINTENANCE OF TRAFFIC	\$1.00	LUMP	\$815,000.00	\$815,000.00
MOBILIZATION	\$1.00	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,219,000.00

Project Summary	Subtotal
Roadway	\$22,565,755
Erosion Control	\$1,216,472
Drainage	\$1,938,000
Pavement	\$9,437,062
Traffic Control - Signing and Pavement Marking	\$652,800
Traffic Signal and Surveillance	\$1,226,800
Roadway Lighting	\$850,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$44,000
Structures	\$2,717,000
Incidentals	\$2,219,000
Total	\$42,867,000

Contingency (30%)	\$12,860,000
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Subtotal	\$55,727,000
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Right-of-Way	\$0
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Engineering (18%)	\$10,031,000
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Construction Engineering (10%)	\$5,573,000
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Subtotal	\$71,331,000
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Inflation (30%)	\$21,399,300
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Project Total (2030 Dollars)	\$92,730,000
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Estimate completed by:



SEGMENT 5 CONCEPT B - OVERALL

SEGMENT 5 CONCEPT B - RANGE 1	Quantity
Construction Subtotal	\$19,449,000
Contingency (30%)	\$5,835,000
Construction Total	\$25,284,000
Right-of-Way	\$0
Engineering (18%)	\$4,551,000
Construction Engineering (10%)	\$2,528,000
Project Subtotal	\$32,363,000
Inflation (30%)	\$9,708,900
Subtotal	\$42,072,000
SEGMENT 5 CONCEPT B - RANGE 2	
Construction Subtotal	\$9,483,000
Contingency (30%)	\$2,845,000
Construction Total	\$12,328,000
Right-of-Way	\$0
Engineering (18%)	\$2,219,000
Construction Engineering (10%)	\$1,233,000
Project Subtotal	\$15,780,000
Inflation (30%)	\$4,734,000
Subtotal	\$20,514,000
SEGMENT 5 CONCEPT B - RANGE 3	
Construction Subtotal	\$18,234,000
Contingency (30%)	\$5,470,000
Construction Total	\$23,704,000
Right-of-Way	\$0
Engineering (18%)	\$4,267,000
Construction Engineering (10%)	\$2,370,000
Project Subtotal	\$30,341,000
Inflation (30%)	\$9,102,300
Subtotal	\$39,443,000
SEGMENT 5 CONCEPT B - RANGE 4	
Construction Subtotal	\$43,015,000
Contingency (30%)	\$12,905,000
Construction Total	\$55,920,000
Right-of-Way	\$0
Engineering (18%)	\$10,066,000
Construction Engineering (10%)	\$5,592,000
Project Subtotal	\$71,578,000
Inflation (30%)	\$21,473,400
Subtotal	\$93,051,000
SEGMENT 7 - OVERALL	
SEGMENT 5 CONCEPT B - RANGE 1	\$42,072,000
SEGMENT 5 CONCEPT B - RANGE 2	\$20,514,000
SEGMENT 5 CONCEPT B - RANGE 3	\$39,443,000
SEGMENT 5 CONCEPT B - RANGE 4	\$93,051,000
Total - Segment X - Overall	\$195,080,000

Current Year
Construction w/ Contingency w/out Inflation
\$150,062,000
for use in B/C calc

Estimate completed by:



SEGMENT 5 CONCEPT B - RANGE 1
452 + 65.00 to 500 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	32,520	SY	\$20.00	\$650,400.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	17,196	CY	\$40.00	\$687,839.17
EMBANKMENT	61,142	CY	\$45.00	\$2,751,381.76
GUARDRAIL	1,750	FT	\$22.00	\$38,500.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,250	FT	\$42.00	\$178,500.00
CONCRETE MEDIAN	4,280	SY	\$100.00	\$428,000.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$4,738,620.92

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	190,000	EACH	\$1.00	\$190,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$137,000.00	\$137,000.00
SEEDING AND MULCHING	31,161	SY	\$2.00	\$62,322.37
Erosion Control Subtotal				\$439,322.37

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	9,200	FT	\$300.00	\$2,760,000.00
UNDERDRAINS	9,200	FT	\$15.00	\$138,000.00
Drainage Subtotal				\$2,922,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	56,000	SY	\$100.00	\$5,600,000.00
PAVEMENT PLANING AND RESURFACING	14,520	SY	\$54.00	\$784,080.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$6,384,080.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	4	MILE	\$250,000.00	\$1,000,000.00
PAVEMENT MARKINGS - THERMO	2.0	MILE	\$14,000.00	\$28,000.00
PAVEMENT MARKINGS - RECESSED	2.0	MILE	\$30,000.00	\$60,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$1,088,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2.5	MILE	\$170,000.00	\$425,000.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$848,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4735	FT	\$100.00	\$473,500.00
Traffic Control - Traffic Signal Subtotal				\$473,500.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2800	FT	\$200.00	\$560,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$560,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	5,200	SF	\$220.00	\$1,144,000.00
Structures Subtotal				\$1,144,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$90,000.00	\$90,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$361,000.00	\$361,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$851,000.00

Project Summary	Subtotal
Roadway	\$4,738,621
Erosion Control	\$439,322
Drainage	\$2,922,000
Pavement	\$6,384,080
Traffic Control - Signing and Pavement Marking	\$1,088,000
Traffic Signal and Surveillance	\$848,000
Roadway Lighting	\$473,500
Utility Relocations - Gas, Electric, Water, Wastewater	\$560,000
Structures	\$1,144,000
Incidentals	\$851,000
Total	\$19,449,000

Contingency (30%)	\$5,835,000
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Subtotal	\$25,284,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,551,000
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Construction Engineering (10%)	\$2,528,000
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Subtotal	\$32,363,000
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Inflation (30%)	\$9,708,900
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Project Total (2030 Dollars)	\$42,072,000
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Estimate completed by:



SEGMENT 5 CONCEPT B - RANGE 2
500 + 00.00 TO 515 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,000	SY	\$20.00	\$280,000.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	17,402	CY	\$40.00	\$696,081.72
EMBANKMENT	33,572	CY	\$45.00	\$1,510,139.17
GUARDRAIL	625	FT	\$22.00	\$13,750.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,000	FT	\$42.00	\$252,000.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,756,550.89

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	100,000	EACH	1	\$100,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$91,000.00	\$91,000.00
SEEDING AND MULCHING	18,649	SY	\$2.00	\$37,297.77
Erosion Control Subtotal				\$253,297.77

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	6,000	FT	\$300.00	\$1,800,000.00
UNDERDRAINS	6,000	FT	\$15.00	\$90,000.00
Drainage Subtotal				\$1,914,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	18,500	SY	\$100.00	\$1,850,000.00
PAVEMENT PLANING AND RESURFACING	12,365	SY	\$54.00	\$667,710.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,517,710.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$250,000.00
PAVEMENT MARKINGS - THERMO	0.3	MILE	\$34,000.00	\$10,200.00
PAVEMENT MARKINGS - RECESSED	1.0	MILE	\$29,100.00	\$29,100.00
Traffic Control - Signing and Pavement Marking Subtotal				\$345,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$170,000.00
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$204,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4500	FT	\$100.00	\$450,000.00
Traffic Control - Traffic Signal Subtotal				\$450,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	867	FT	\$200.00	\$173,400.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$173,400.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	2,030	SF	\$220.00	\$446,600.00
Structures Subtotal				\$446,600.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$44,000.00	\$44,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$178,000.00	\$178,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$422,000.00

Project Summary	Subtotal
Roadway	\$2,756,551
Erosion Control	\$253,298
Drainage	\$1,914,000
Pavement	\$2,517,710
Traffic Control - Signing and Pavement Marking	\$345,520
Traffic Signal and Surveillance	\$204,000
Roadway Lighting	\$450,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$173,400
Structures	\$446,600
Incidentals	\$422,000
Total	\$9,483,000

Contingency (30%)	\$2,845,000
Subtotal	\$12,328,000

Right-of-Way	\$0
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Engineering (18%)	\$2,219,000
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Construction Engineering (10%)	\$1,233,000
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Subtotal	\$15,780,000
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Inflation (30%)	\$4,734,000
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Project Total (2030 Dollars)	\$20,514,000
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Estimate completed by:



SEGMENT 5 CONCEPT B - RANGE 3
515 + 00.00 TO 535 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,250	SY	\$20.00	\$525,000.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	137,347	CY	\$40.00	\$5,493,894.96
EMBANKMENT	13,278	CY	\$45.00	\$597,501.45
GUARDRAIL	750	FT	\$22.00	\$16,500.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,300	FT	\$42.00	\$264,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$6,901,496.41

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	195,000	EACH	1	\$195,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$162,000.00	\$162,000.00
SEEDING AND MULCHING	38,505	SY	\$2.00	\$77,010.59
Erosion Control Subtotal				\$459,010.59

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	5,800	FT	\$300.00	\$1,740,000.00
UNDERDRAINS	5,800	FT	\$15.00	\$87,000.00
Drainage Subtotal				\$1,851,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	19,200	SY	\$100.00	\$1,920,000.00
PAVEMENT PLANING AND RESURFACING	12,520	SY	\$54.00	\$676,080.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,596,080.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.6	MILE	\$250,000.00	\$405,000.00
PAVEMENT MARKINGS - THERMO	0.4	MILE	\$14,000.00	\$5,600.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$447,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$204,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	6500	FT	\$100.00	\$650,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	420	FT	\$200.00	\$84,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	2	EACH	\$1,500,000.00	\$3,000,000.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$3,084,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	5,824	SF	\$220.00	\$1,281,280.00
Structures Subtotal				\$1,281,280.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$72,000.00	\$72,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$288,000.00	\$288,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$760,000.00

Project Summary	Subtotal
Roadway	\$6,901,496
Erosion Control	\$459,011
Drainage	\$1,851,000
Pavement	\$2,596,080
Traffic Control - Signing and Pavement Marking	\$447,200
Traffic Signal and Surveillance	\$204,000
Roadway Lighting	\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$3,084,000
Structures	\$1,281,280
Incidentals	\$760,000
Total	\$18,234,000

Contingency (30%)	\$5,470,000
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Subtotal	\$23,704,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,267,000
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Construction Engineering (10%)	\$2,370,000
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Subtotal	\$30,341,000
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Inflation (30%)	\$9,102,300
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Project Total (2030 Dollars)	\$39,443,000
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Estimate completed by:



SEGMENT 5 CONCEPT B - RANGE 4
535 + 00.00 TO 573 + 68.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	27,520	SY	\$20.00	\$550,400.00
CULVERT REMOVED	80	FT	\$100.00	\$8,000.00
EXCAVATION	365,607	CY	\$40.00	\$14,624,266.88
EMBANKMENT	156,703	CY	\$45.00	\$7,051,622.73
GUARDRAIL	3,600	FT	\$22.00	\$79,200.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,520	FT	\$42.00	\$273,840.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$22,587,329.61

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	500,000	EACH	1	\$500,000.00
EROSION CONTROL PLAN	1	LUMP	\$75,000.00	\$75,000.00
BMPs	1	LUMP	\$355,000.00	\$355,000.00
SEEDING AND MULCHING	102,814	SY	\$2.00	\$205,628.37
Erosion Control Subtotal				\$1,135,628.37

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	80	FT	\$600.00	\$48,000.00
STORM SEWER SYSTEM	6,000	FT	\$300.00	\$1,800,000.00
UNDERDRAINS	6,000	FT	\$15.00	\$90,000.00
Drainage Subtotal				\$1,938,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	32,000	SY	\$100.00	\$3,200,000.00
FULL DEPTH PAVEMENT, CONCRETE	38,473	SY	\$150.00	\$5,770,971.05
PAVEMENT PLANING AND RESURFACING	12,480	SY	\$54.00	\$673,920.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$9,644,891.05

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.4	MILE	\$250,000.00	\$600,000.00
PAVEMENT MARKINGS - THERMO	1.2	MILE	\$14,000.00	\$16,800.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$652,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2	MILE	\$170,000.00	\$380,800.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,226,800.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3500	FT	\$100.00	\$350,000.00
Traffic Control - Traffic Signal Subtotal				\$850,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	220	FT	\$200.00	\$44,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$44,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	12,350	SF	\$220.00	\$2,717,000.00
Pavement Subtotal				\$2,717,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$204,000.00	\$204,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$815,000.00	\$815,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,219,000.00

Project Summary	Subtotal
Roadway	\$22,587,330
Erosion Control	\$1,135,628
Drainage	\$1,938,000
Pavement	\$9,644,891
Traffic Control - Signing and Pavement Marking	\$652,800
Traffic Signal and Surveillance	\$1,226,800
Roadway Lighting	\$850,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$44,000
Structures	\$2,717,000
Incidentals	\$2,219,000
Total	\$43,015,000

Contingency (30%)	\$12,905,000
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Subtotal	\$55,920,000
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Right-of-Way	\$0
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Engineering (18%)	\$10,066,000
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Construction Engineering (10%)	\$5,592,000
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Subtotal	\$71,578,000
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Inflation (30%)	\$21,473,400
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Project Total (2030 Dollars)	\$93,051,000
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Estimate completed by:



SEGMENT X CONCEPT A - OVERALL

SEGMENT 5 CONCEPT C - RANGE 1	
Construction Subtotal	\$29,889,000
Contingency (30%)	\$8,967,000
Construction Total	\$38,856,000
Right-of-Way	\$0
Engineering (18%)	\$6,994,000
Construction Engineering (10%)	\$3,886,000
Project Subtotal	\$49,736,000
Inflation (30%)	\$14,920,800
Subtotal	\$64,657,000
SEGMENT 5 CONCEPT C - RANGE 2	
Construction Subtotal	\$10,231,000
Contingency (30%)	\$3,069,000
Construction Total	\$13,300,000
Right-of-Way	\$0
Engineering (18%)	\$2,394,000
Construction Engineering (10%)	\$1,330,000
Project Subtotal	\$17,024,000
Inflation (30%)	\$5,107,200
Subtotal	\$22,131,000
SEGMENT 5 CONCEPT C - RANGE 3	
Construction Subtotal	\$10,950,000
Contingency (30%)	\$3,285,000
Construction Total	\$14,235,000
Right-of-Way	\$0
Engineering (18%)	\$2,562,000
Construction Engineering (10%)	\$1,424,000
Project Subtotal	\$18,221,000
Inflation (30%)	\$5,466,300
Subtotal	\$23,687,000
SEGMENT 5 CONCEPT C - RANGE 4	
Construction Subtotal	\$29,394,000
Contingency (30%)	\$8,818,000
Construction Total	\$38,212,000
Right-of-Way	\$0
Engineering (18%)	\$6,878,000
Construction Engineering (10%)	\$3,821,000
Project Subtotal	\$48,911,000
Inflation (30%)	\$14,673,300
Subtotal	\$63,584,000
SEGMENT 5 - OVERALL	
SEGMENT 5 CONCEPT C - RANGE 1	\$64,657,000
SEGMENT 5 CONCEPT C - RANGE 2	\$22,131,000
SEGMENT 5 CONCEPT C - RANGE 3	\$23,687,000
SEGMENT 5 CONCEPT C - RANGE 4	\$63,584,000
Total - Segment 5 - Overall	\$174,059,000

Current Year
Construction w/out Inflation
\$133,892,000
for use in B/C calcs

Estimate completed by:



SEGMENT 5 CONCEPT C - RANGE 1
452 + 65.00 to 500 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	29,560	SY	\$20.00	\$591,200.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	27,600	CY	\$40.00	\$1,103,984.12
EMBANKMENT	134,983	CY	\$45.00	\$6,074,246.84
GUARDRAIL	2,200	FT	\$22.00	\$48,400.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,250	FT	\$42.00	\$178,500.00
CONCRETE MEDIAN	4,280	SY	\$100.00	\$428,000.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$8,428,330.96

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	308,000	EACH	1	\$308,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$223,000.00	\$223,000.00
SEEDING AND MULCHING	57,399	SY	\$2.00	\$114,798.64
Erosion Control Subtotal				\$695,798.64

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	9,200	FT	\$300.00	\$2,760,000.00
UNDERDRAINS	9,200	FT	\$15.00	\$138,000.00
Drainage Subtotal				\$2,922,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	58,000	SY	\$100.00	\$5,800,000.00
FULL DEPTH PAVEMENT, CONCRETE	4,187	SY	\$150.00	\$628,115.45
PAVEMENT PLANING AND RESURFACING	14,250	SY	\$54.00	\$769,500.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$7,197,615.45

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	3	MILE	\$250,000.00	\$800,000.00
PAVEMENT MARKINGS - THERMO	2.0	MILE	\$14,000.00	\$28,000.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$864,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	2.5	MILE	\$170,000.00	\$425,000.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,751,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	4735	FT	\$100.00	\$473,500.00
Traffic Control - Traffic Signal Subtotal				\$773,500.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2800	FT	\$200.00	\$560,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$560,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	24.100	SF	\$220.00	\$5,302,000.00
Structures Subtotal				\$5,302,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	\$1.00	LUMP	\$119,000.00	\$119,000.00
MAINTENANCE OF TRAFFIC	\$1.00	LUMP	\$476,000.00	\$476,000.00
MOBILIZATION	\$1.00	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,395,000.00

Project Summary	Subtotal
Roadway	\$8,428,331
Erosion Control	\$695,799
Drainage	\$2,922,000
Pavement	\$7,197,615
Traffic Control - Signing and Pavement Marking	\$864,000
Traffic Signal and Surveillance	\$1,751,000
Roadway Lighting	\$773,500
Utility Relocations - Gas, Electric, Water, Wastewater	\$560,000
Structures	\$5,302,000
Incidentals	\$1,395,000
Total	\$29,889,000

Contingency (30%)	\$8,967,000
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Subtotal	\$38,856,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,994,000
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Construction Engineering (10%)	\$3,886,000
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Subtotal	\$49,736,000
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Inflation (30%)	\$14,920,800
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Project Total (2030 Dollars)	\$64,657,000
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Estimate completed by:



SEGMENT 5 CONCEPT C - RANGE 2
500 + 00.00 TO 515 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	14,000	SY	\$20.00	\$280,000.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	27,579	CY	\$40.00	\$1,103,152.80
EMBANKMENT	35,136	CY	\$45.00	\$1,581,127.70
GUARDRAIL	1,000	FT	\$22.00	\$22,000.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,000	FT	\$42.00	\$252,000.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$3,242,279.98

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	125,000	EACH	1	\$125,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$112,000.00	\$112,000.00
SEEDING AND MULCHING	24,189	SY	\$2.00	\$48,377.29
Erosion Control Subtotal				\$310,377.29

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	6,000	FT	\$300.00	\$1,800,000.00
UNDERDRAINS	6,000	FT	\$15.00	\$90,000.00
Drainage Subtotal				\$1,914,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	18,500	SY	\$100.00	\$1,850,000.00
PAVEMENT PLANING AND RESURFACING	10,065	SY	\$54.00	\$543,510.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,393,510.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$250,000.00
PAVEMENT MARKINGS - THERMO	0.3	MILE	\$34,000.00	\$10,200.00
PAVEMENT MARKINGS - RECESSED	1.0	MILE	\$29,100.00	\$29,100.00
Traffic Control - Signing and Pavement Marking Subtotal				\$345,520.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$170,000.00
CCTV	0	EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4500	FT	\$100.00	\$450,000.00
Traffic Control - Traffic Signal Subtotal				\$450,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	867	FT	\$200.00	\$173,400.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$173,400.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	4,425	SF	\$220.00	\$973,500.00
Structures Subtotal				\$973,500.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$46,000.00	\$46,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$182,000.00	\$182,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$428,000.00

Project Summary	Subtotal
Roadway	\$3,242,280
Erosion Control	\$310,377
Drainage	\$1,914,000
Pavement	\$2,393,510
Traffic Control - Signing and Pavement Marking	\$345,520
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$450,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$173,400
Structures	\$973,500
Incidentals	\$428,000
Total	\$10,231,000

Contingency (30%)	\$3,069,000
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Subtotal	\$13,300,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,394,000
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Construction Engineering (10%)	\$1,330,000
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Subtotal	\$17,024,000
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Inflation (30%)	\$5,107,200
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Project Total (2030 Dollars)	\$22,131,000
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Estimate completed by:



SEGMENT 5 CONCEPT C - RANGE 3
515 + 00.00 TO 535 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,250	SY	\$20.00	\$525,000.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	66,722	CY	\$40.00	\$2,668,890.64
EMBANKMENT	5,768	CY	\$45.00	\$259,547.18
GUARDRAIL	250	FT	\$22.00	\$5,500.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,300	FT	\$42.00	\$264,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$3,723,527.82

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	140,000	EACH	1	\$140,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$120,000.00	\$120,000.00
SEEDING AND MULCHING	26,318	SY	\$2.00	\$52,636.48
Erosion Control Subtotal				\$337,636.48

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,800	FT	\$300.00	\$1,740,000.00
UNDERDRAINS	5,800	FT	\$15.00	\$87,000.00
Drainage Subtotal				\$1,827,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	16,520	SY	\$100.00	\$1,652,000.00
PAVEMENT PLANING AND RESURFACING	9,520	SY	\$54.00	\$514,080.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,166,080.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.6	MILE	\$250,000.00	\$405,000.00
PAVEMENT MARKINGS - THERMO	0.4	MILE	\$14,000.00	\$5,600.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$447,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$1,107,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	6500	FT	\$100.00	\$650,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	180	FT	\$200.00	\$36,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$36,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$51,000.00	\$51,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$205,000.00	\$205,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$656,000.00

Project Summary	Subtotal
Roadway	\$3,723,528
Erosion Control	\$337,636
Drainage	\$1,827,000
Pavement	\$2,166,080
Traffic Control - Signing and Pavement Marking	\$447,200
Traffic Signal and Surveillance	\$1,107,000
Roadway Lighting	\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$36,000
Structures	\$0
Incidentals	\$656,000
Total	\$10,950,000

Contingency (30%)	\$3,285,000
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Subtotal	\$14,235,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,562,000
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Construction Engineering (10%)	\$1,424,000
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Subtotal	\$18,221,000
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Inflation (30%)	\$5,466,300
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Project Total (2030 Dollars)	\$23,687,000
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Estimate completed by:



SEGMENT 5 CONCEPT C - RANGE 4
535 + 00.00 TO 573 + 68.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	22,000	SY	\$20.00	\$440,000.00
CULVERT REMOVED	80	FT	\$100.00	\$8,000.00
EXCAVATION	15,012	CY	\$40.00	\$600,494.80
EMBANKMENT	247,414	CY	\$45.00	\$11,133,641.66
GUARDRAIL	7,650	FT	\$22.00	\$168,300.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	8,280	FT	\$42.00	\$347,760.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$12,698,196.46

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	290,000	EACH	1	\$290,000.00
EROSION CONTROL PLAN	1	LUMP	\$75,000.00	\$75,000.00
BMPs	1	LUMP	\$218,000.00	\$218,000.00
SEEDING AND MULCHING	55,547	SY	\$2.00	\$111,093.58
Erosion Control Subtotal				\$694,093.58

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	80	FT	\$600.00	\$48,000.00
STORM SEWER SYSTEM	6,800	FT	\$300.00	\$2,040,000.00
UNDERDRAINS	6,800	FT	\$15.00	\$102,000.00
Drainage Subtotal				\$2,190,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	14,400	SY	\$100.00	\$1,440,000.00
FULL DEPTH PAVEMENT, CONCRETE	32,919	SY	\$150.00	\$4,937,857.88
PAVEMENT PLANING AND RESURFACING	9,500	SY	\$54.00	\$513,000.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$6,890,857.88

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.4	MILE	\$250,000.00	\$600,000.00
PAVEMENT MARKINGS - THERMO	1.2	MILE	\$14,000.00	\$16,800.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$652,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2	MILE	\$170,000.00	\$380,800.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,226,800.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	3500	FT	\$100.00	\$350,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	220	FT	\$200.00	\$44,000.00
WATERLINE 36" OR LARGER	0	FT	\$0.00	\$0.00
HIGH VOLTAGE TOWER	0	EACH	\$0.00	\$0.00
SANITARY LINE 36" OR LARGER	0	FT	\$0.00	\$0.00
DAM MODIFICATION	0	LUMP	\$0.00	\$0.00
Water/Wastewater Subtotal				\$44,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	13,150	SF	\$220.00	\$2,893,000.00
Structures Subtotal				\$2,893,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$131,000.00	\$131,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$523,000.00	\$523,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,454,000.00

Project Summary	Subtotal
Roadway	\$12,698,196
Erosion Control	\$694,094
Drainage	\$2,190,000
Pavement	\$6,890,858
Traffic Control - Signing and Pavement Marking	\$652,800
Traffic Signal and Surveillance	\$1,226,800
Roadway Lighting	\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$44,000
Structures	\$2,893,000
Incidentals	\$1,454,000
Total	\$29,394,000

Contingency (30%)	\$8,818,000
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Subtotal	\$38,212,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,878,000
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Construction Engineering (10%)	\$3,821,000
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Subtotal	\$48,911,000
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Inflation (30%)	\$14,673,300
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Project Total (2030 Dollars)	\$63,584,000
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Estimate completed by:

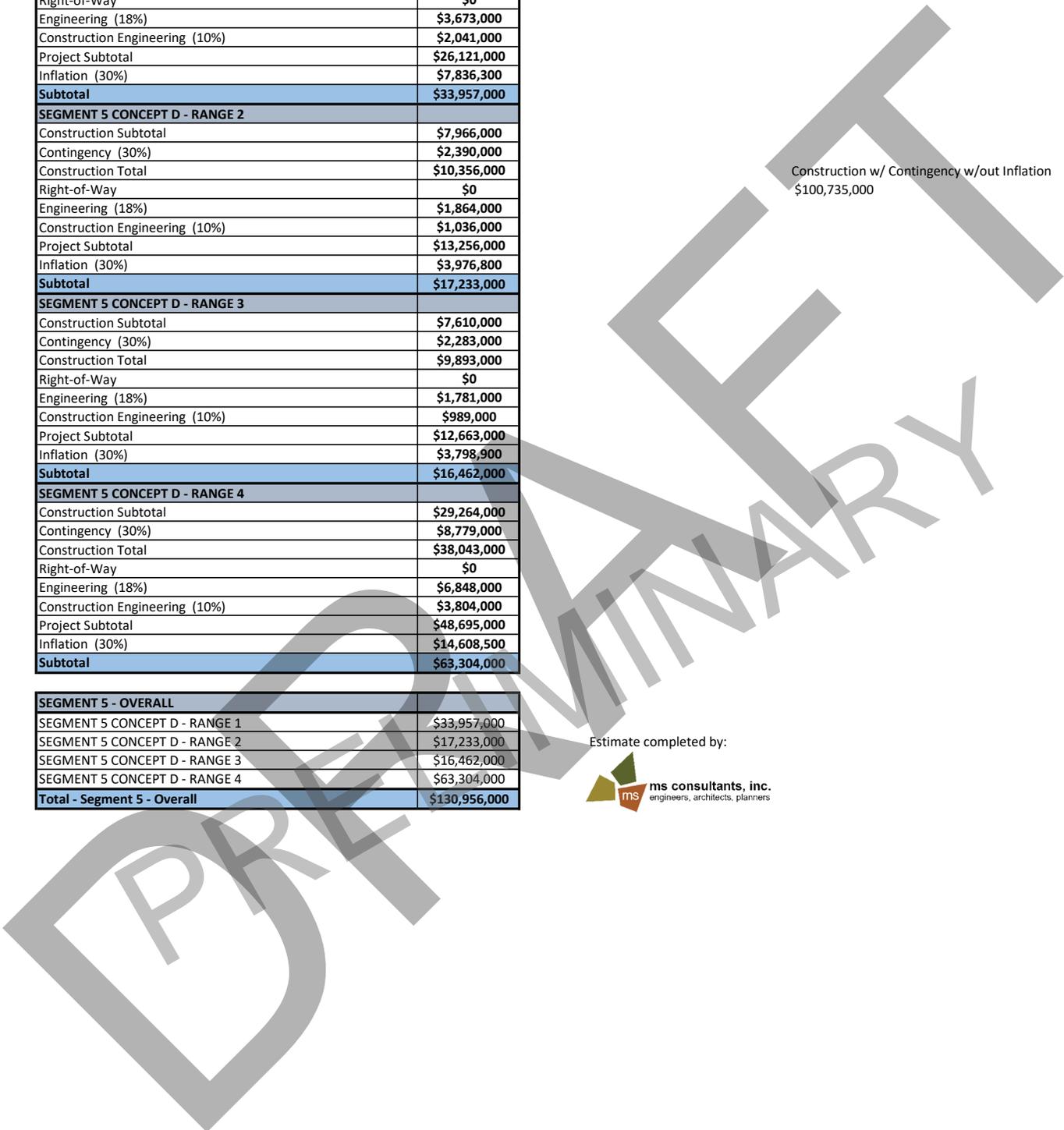


SEGMENT 5 CONCEPT D - OVERALL

SEGMENT 5 CONCEPT D - RANGE 1	
	Quantity
Construction Subtotal	\$15,698,000
Contingency (30%)	\$4,709,000
Construction Total	\$20,407,000
Right-of-Way	\$0
Engineering (18%)	\$3,673,000
Construction Engineering (10%)	\$2,041,000
Project Subtotal	\$26,121,000
Inflation (30%)	\$7,836,300
Subtotal	\$33,957,000
SEGMENT 5 CONCEPT D - RANGE 2	
Construction Subtotal	\$7,966,000
Contingency (30%)	\$2,390,000
Construction Total	\$10,356,000
Right-of-Way	\$0
Engineering (18%)	\$1,864,000
Construction Engineering (10%)	\$1,036,000
Project Subtotal	\$13,256,000
Inflation (30%)	\$3,976,800
Subtotal	\$17,233,000
SEGMENT 5 CONCEPT D - RANGE 3	
Construction Subtotal	\$7,610,000
Contingency (30%)	\$2,283,000
Construction Total	\$9,893,000
Right-of-Way	\$0
Engineering (18%)	\$1,781,000
Construction Engineering (10%)	\$989,000
Project Subtotal	\$12,663,000
Inflation (30%)	\$3,798,900
Subtotal	\$16,462,000
SEGMENT 5 CONCEPT D - RANGE 4	
Construction Subtotal	\$29,264,000
Contingency (30%)	\$8,779,000
Construction Total	\$38,043,000
Right-of-Way	\$0
Engineering (18%)	\$6,848,000
Construction Engineering (10%)	\$3,804,000
Project Subtotal	\$48,695,000
Inflation (30%)	\$14,608,500
Subtotal	\$63,304,000
SEGMENT 5 - OVERALL	
SEGMENT 5 CONCEPT D - RANGE 1	\$33,957,000
SEGMENT 5 CONCEPT D - RANGE 2	\$17,233,000
SEGMENT 5 CONCEPT D - RANGE 3	\$16,462,000
SEGMENT 5 CONCEPT D - RANGE 4	\$63,304,000
Total - Segment 5 - Overall	\$130,956,000

Construction w/ Contingency w/out Inflation
\$100,735,000

Estimate completed by:



SEGMENT 5 CONCEPT D - RANGE 1
452 + 65.00 to 500 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	19,520	SY	\$20.00	\$390,400.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	22,024	CY	\$40.00	\$880,962.00
EMBANKMENT	7,916	CY	\$45.00	\$356,220.00
GUARDRAIL	625	FT	\$22.00	\$13,750.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,250	FT	\$42.00	\$178,500.00
CONCRETE MEDIAN	4,280	SY	\$100.00	\$428,000.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,247,832.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	131,000	EACH	1	\$131,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$89,000.00	\$89,000.00
SEEDING AND MULCHING	18,156	SY	\$2.00	\$36,311.75
Erosion Control Subtotal				\$281,311.75

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	8,500	FT	\$300.00	\$2,550,000.00
UNDERDRAINS	8,500	FT	\$15.00	\$127,500.00
Drainage Subtotal				\$2,677,500.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	50,140	SY	\$100.00	\$5,014,000.00
PAVEMENT PLANING AND RESURFACING	6,400	SY	\$54.00	\$345,600.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$5,359,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	3	MILE	\$250,000.00	\$800,000.00
PAVEMENT MARKINGS - THERMO	2.0	MILE	\$14,000.00	\$28,000.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$864,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	2.5	MILE	\$170,000.00	\$425,000.00
CCTV	3	EACH	\$123,000.00	\$369,000.00
Traffic Control - Traffic Signal Subtotal				\$2,174,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	4735	FT	\$100.00	\$473,500.00
Traffic Control - Traffic Signal Subtotal				\$773,500.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2800	FT	\$200.00	\$560,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$560,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$72,000.00	\$72,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$288,000.00	\$288,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$760,000.00

Project Summary		Subtotal
Roadway		\$2,247,832
Erosion Control		\$281,312
Drainage		\$2,677,500
Pavement		\$5,359,600
Traffic Control - Signing and Pavement Marking		\$864,000
Traffic Signal and Surveillance		\$2,174,000
Roadway Lighting		\$773,500
Utility Relocations - Gas, Electric, Water, Wastewater		\$560,000
Structures		\$0
Incidentals		\$760,000
Total		\$15,698,000

Contingency (30%)	\$4,709,000
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Subtotal	\$20,407,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,673,000
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Construction Engineering (10%)	\$2,041,000
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Subtotal	\$26,121,000
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Inflation (30%)	\$7,836,300
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Project Total (2030 Dollars)	\$33,957,000
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Estimate completed by:



SEGMENT 5 CONCEPT D - RANGE 2
500 + 00.00 TO 515 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	9,240	SY	\$20.00	\$184,800.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	25,161	CY	\$40.00	\$1,006,423.20
EMBANKMENT	3,297	CY	\$45.00	\$148,355.55
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,800	FT	\$42.00	\$201,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$1,552,178.75

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	71,000	EACH	1	\$71,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$65,000.00	\$65,000.00
SEEDING AND MULCHING	12,274	SY	\$2.00	\$24,547.08
Erosion Control Subtotal				\$185,547.08

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	7,000	FT	\$300.00	\$2,100,000.00
UNDERDRAINS	7,000	FT	\$15.00	\$105,000.00
Drainage Subtotal				\$2,229,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	15,800	SY	\$100.00	\$1,580,000.00
PAVEMENT PLANING AND RESURFACING	9,250	SY	\$54.00	\$499,500.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,079,500.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$257,500.00
PAVEMENT MARKINGS - THERMO	0.3	MILE	\$14,000.00	\$3,920.00
PAVEMENT MARKINGS - RECESSED	0.8	MILE	\$30,000.00	\$22,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$283,920.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$627,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4500	FT	\$100.00	\$450,000.00
Traffic Control - Traffic Signal Subtotal				\$450,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	867	FT	\$200.00	\$173,400.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$173,400.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$37,000.00	\$37,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$148,000.00	\$148,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$385,000.00

Project Summary	Subtotal
Roadway	\$1,552,179
Erosion Control	\$185,547
Drainage	\$2,229,000
Pavement	\$2,079,500
Traffic Control - Signing and Pavement Marking	\$283,920
Traffic Signal and Surveillance	\$627,000
Roadway Lighting	\$450,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$173,400
Structures	\$0
Incidentals	\$385,000
Total	\$7,966,000

Contingency (30%)	\$2,390,000
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Subtotal	\$10,356,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,864,000
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Construction Engineering (10%)	\$1,036,000
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Subtotal	\$13,256,000
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Inflation (30%)	\$3,976,800
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Project Total (2030 Dollars)	\$17,233,000
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Estimate completed by:



SEGMENT 5 CONCEPT D - RANGE 3
515 + 00.00 TO 535 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,250	SY	\$20.00	\$525,000.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	13,502	CY	\$40.00	\$540,088.80
EMBANKMENT	4,178	CY	\$45.00	\$188,021.70
GUARDRAIL	525	FT	\$22.00	\$11,550.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,300	FT	\$42.00	\$264,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$1,529,260.50

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	70,000	EACH	1	\$70,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$59,000.00	\$59,000.00
SEEDING AND MULCHING	10,725	SY	\$2.00	\$21,449.12
Erosion Control Subtotal				\$175,449.12

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,800	FT	\$300.00	\$1,740,000.00
UNDERDRAINS	5,800	FT	\$15.00	\$87,000.00
Drainage Subtotal				\$1,827,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	14,520	SY	\$100.00	\$1,452,000.00
PAVEMENT PLANING AND RESURFACING	9,000	SY	\$54.00	\$486,000.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$1,938,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.6	MILE	\$250,000.00	\$405,000.00
PAVEMENT MARKINGS - THERMO	0.4	MILE	\$14,000.00	\$5,600.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,600.00
Traffic Control - Signing and Pavement Marking Subtotal				\$447,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$627,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	6500	FT	\$100.00	\$650,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	180	FT	\$200.00	\$36,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$36,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$36,000.00	\$36,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$144,000.00	\$144,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$380,000.00

Project Summary		Subtotal
Roadway		\$1,529,261
Erosion Control		\$175,449
Drainage		\$1,827,000
Pavement		\$1,938,000
Traffic Control - Signing and Pavement Marking		\$447,200
Traffic Signal and Surveillance		\$627,000
Roadway Lighting		\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater		\$36,000
Structures		\$0
Incidentals		\$380,000
Total		\$7,610,000

Contingency (30%)	\$2,283,000
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Subtotal	\$9,893,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,781,000
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Construction Engineering (10%)	\$989,000
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Subtotal	\$12,663,000
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Inflation (30%)	\$3,798,900
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Project Total (2030 Dollars)	\$16,462,000
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Estimate completed by:



SEGMENT 5 CONCEPT D - RANGE 4
535 + 00.00 TO 573 + 68.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	22,000	SY	\$20.00	\$440,000.00
CULVERT REMOVED	80	FT	\$100.00	\$8,000.00
EXCAVATION	14,844	CY	\$40.00	\$593,751.53
EMBANKMENT	244,645	CY	\$45.00	\$11,009,025.00
GUARDRAIL	7,650	FT	\$22.00	\$168,300.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	8,280	FT	\$42.00	\$347,760.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$12,566,836.53

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	291,000	EACH	1	\$291,000.00
EROSION CONTROL PLAN	1	LUMP	\$75,000.00	\$75,000.00
BMPs	1	LUMP	\$218,000.00	\$218,000.00
SEEDING AND MULCHING	55,693	SY	\$2.00	\$111,386.55
Erosion Control Subtotal				\$695,386.55

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	80	FT	\$600.00	\$48,000.00
STORM SEWER SYSTEM	6,800	FT	\$300.00	\$2,040,000.00
UNDERDRAINS	6,800	FT	\$15.00	\$102,000.00
Drainage Subtotal				\$2,190,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	14,400	SY	\$100.00	\$1,440,000.00
FULL DEPTH PAVEMENT, CONCRETE	32,919	SY	\$150.00	\$4,937,857.88
PAVEMENT PLANING AND RESURFACING	9,500	SY	\$54.00	\$513,000.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$6,890,857.88

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.4	MILE	\$250,000.00	\$600,000.00
PAVEMENT MARKINGS - THERMO	1.2	MILE	\$14,000.00	\$16,800.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$652,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2	MILE	\$170,000.00	\$380,800.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,226,800.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	3900	FT	\$100.00	\$350,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	220	FT	\$200.00	\$44,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$44,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	13,150	SF	\$220.00	\$2,893,000.00
Structures Subtotal				\$2,893,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$131,000.00	\$131,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$523,000.00	\$523,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,454,000.00

Project Summary	Subtotal
Roadway	\$12,566,837
Erosion Control	\$695,387
Drainage	\$2,190,000
Pavement	\$6,890,858
Traffic Control - Signing and Pavement Marking	\$652,800
Traffic Signal and Surveillance	\$1,226,800
Roadway Lighting	\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$44,000
Structures	\$2,893,000
Incidentals	\$1,454,000
Total	\$29,264,000

Contingency (30%)	\$8,779,000
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Subtotal	\$38,043,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,848,000
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Construction Engineering (10%)	\$3,804,000
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Subtotal	\$48,695,000
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Inflation (30%)	\$14,608,500
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Estimate completed by:

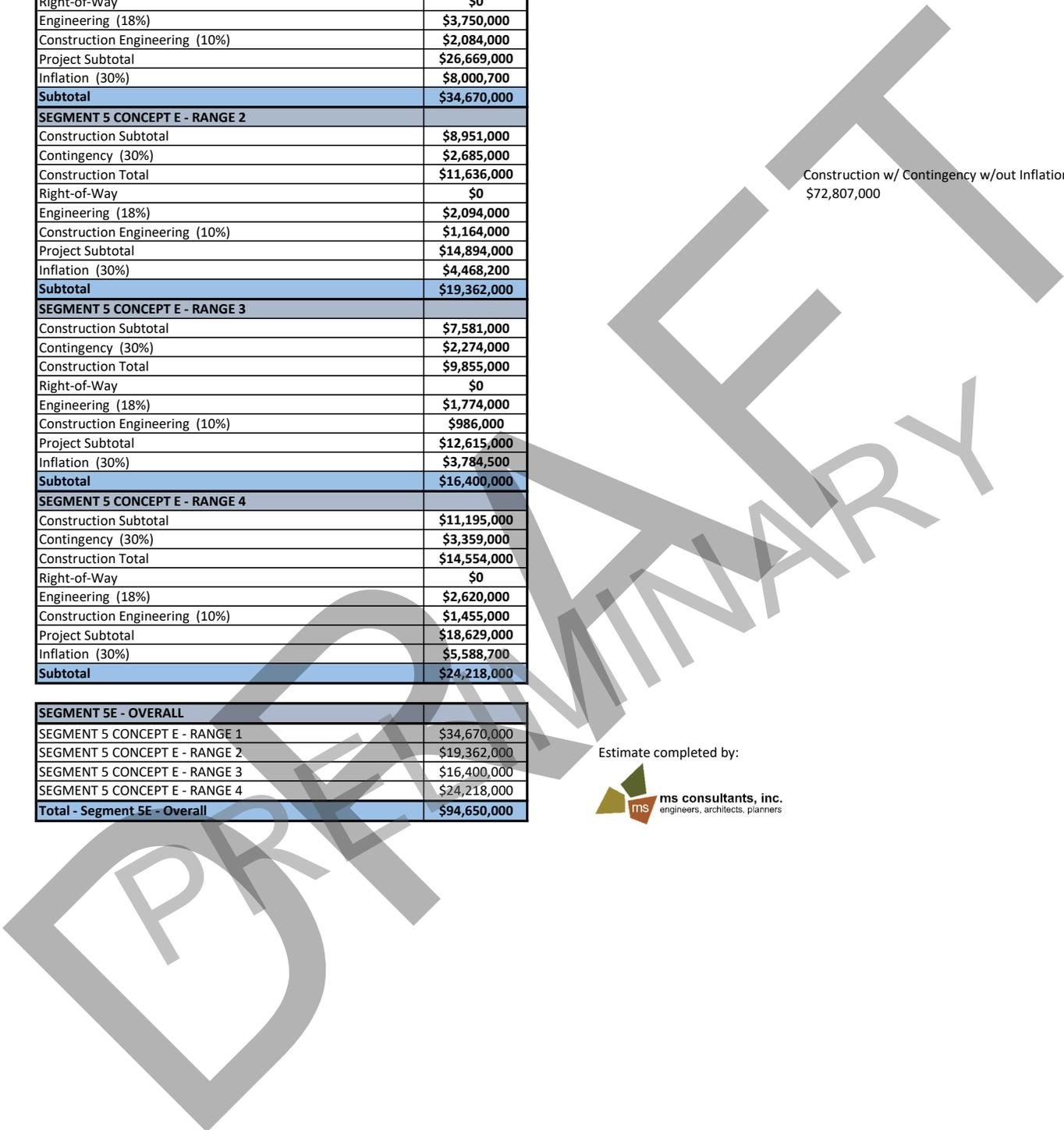


SEGMENT 5 CONCEPT E - OVERALL

SEGMENT 5 CONCEPT E - RANGE 1	
Construction Subtotal	\$16,027,000
Contingency (30%)	\$4,808,000
Construction Total	\$20,835,000
Right-of-Way	\$0
Engineering (18%)	\$3,750,000
Construction Engineering (10%)	\$2,084,000
Project Subtotal	\$26,669,000
Inflation (30%)	\$8,000,700
Subtotal	\$34,670,000
SEGMENT 5 CONCEPT E - RANGE 2	
Construction Subtotal	\$8,951,000
Contingency (30%)	\$2,685,000
Construction Total	\$11,636,000
Right-of-Way	\$0
Engineering (18%)	\$2,094,000
Construction Engineering (10%)	\$1,164,000
Project Subtotal	\$14,894,000
Inflation (30%)	\$4,468,200
Subtotal	\$19,362,000
SEGMENT 5 CONCEPT E - RANGE 3	
Construction Subtotal	\$7,581,000
Contingency (30%)	\$2,274,000
Construction Total	\$9,855,000
Right-of-Way	\$0
Engineering (18%)	\$1,774,000
Construction Engineering (10%)	\$986,000
Project Subtotal	\$12,615,000
Inflation (30%)	\$3,784,500
Subtotal	\$16,400,000
SEGMENT 5 CONCEPT E - RANGE 4	
Construction Subtotal	\$11,195,000
Contingency (30%)	\$3,359,000
Construction Total	\$14,554,000
Right-of-Way	\$0
Engineering (18%)	\$2,620,000
Construction Engineering (10%)	\$1,455,000
Project Subtotal	\$18,629,000
Inflation (30%)	\$5,588,700
Subtotal	\$24,218,000
SEGMENT 5E - OVERALL	
SEGMENT 5 CONCEPT E - RANGE 1	\$34,670,000
SEGMENT 5 CONCEPT E - RANGE 2	\$19,362,000
SEGMENT 5 CONCEPT E - RANGE 3	\$16,400,000
SEGMENT 5 CONCEPT E - RANGE 4	\$24,218,000
Total - Segment 5E - Overall	\$94,650,000

Construction w/ Contingency w/out Inflation
\$72,807,000

Estimate completed by:



SEGMENT 5 CONCEPT E - RANGE 1
452 + 65.00 to 500 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	19,520	SY	\$20.00	\$390,400.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	20,344	CY	\$40.00	\$813,765.20
EMBANKMENT	9,350	CY	\$45.00	\$420,770.70
GUARDRAIL	625	FT	\$22.00	\$13,750.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,250	FT	\$42.00	\$178,500.00
CONCRETE MEDIAN	4,280	SY	\$100.00	\$428,000.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,245,185.90

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	136,000	EACH	\$1.00	\$136,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$94,000.00	\$94,000.00
SEEDING AND MULCHING	19,283	SY	\$2.00	\$38,566.19
Erosion Control Subtotal				\$293,566.19

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	8,200	FT	\$300.00	\$2,460,000.00
UNDERDRAINS	8,200	FT	\$15.00	\$123,000.00
Drainage Subtotal				\$2,583,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	50,140	SY	\$100.00	\$5,014,000.00
PAVEMENT PLANING AND RESURFACING	6,400	SY	\$54.00	\$345,600.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$5,359,600.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	3	MILE	\$250,000.00	\$800,000.00
PAVEMENT MARKINGS - THERMO	2.0	MILE	\$14,000.00	\$28,000.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$864,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2.5	MILE	\$170,000.00	\$425,000.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,271,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4735	FT	\$100.00	\$473,500.00
Traffic Control - Traffic Signal Subtotal				\$473,500.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	2800	FT	\$200.00	\$560,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$560,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	7,500	SF	\$220.00	\$1,650,000.00
Structures Subtotal				\$1,650,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$65,000.00	\$65,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$262,000.00	\$262,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$727,000.00

Project Summary	Subtotal
Roadway	\$2,245,186
Erosion Control	\$293,566
Drainage	\$2,583,000
Pavement	\$5,359,600
Traffic Control - Signing and Pavement Marking	\$864,000
Traffic Signal and Surveillance	\$1,271,000
Roadway Lighting	\$473,500
Utility Relocations - Gas, Electric, Water, Wastewater	\$560,000
Structures	\$1,650,000
Incidentals	\$727,000
Total	\$16,027,000

Contingency (30%)	\$4,808,000
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Subtotal	\$20,835,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,750,000
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Construction Engineering (10%)	\$2,084,000
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Subtotal	\$26,669,000
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Inflation (30%)	\$8,000,700
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Project Total (2030 Dollars)	\$34,670,000
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Estimate completed by:



SEGMENT 5 CONCEPT E - RANGE 2
500 + 00.00 TO 515 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	9,240	SY	\$20.00	\$184,800.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	25,953	CY	\$40.00	\$1,038,100.80
EMBANKMENT	4,232	CY	\$45.00	\$190,451.25
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	4,800	FT	\$42.00	\$201,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$1,625,952.05

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	75,000	EACH	\$1.00	\$75,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$68,000.00	\$68,000.00
SEEDING AND MULCHING	13,006	SY	\$2.00	\$26,012.19
Erosion Control Subtotal				\$194,012.19

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	7,000	FT	\$300.00	\$2,100,000.00
UNDERDRAINS	7,000	FT	\$15.00	\$105,000.00
Drainage Subtotal				\$2,205,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	15,800	SY	\$100.00	\$1,580,000.00
PAVEMENT PLANING AND RESURFACING	9,250	SY	\$54.00	\$499,500.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$2,079,500.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1	MILE	\$250,000.00	\$257,500.00
PAVEMENT MARKINGS - THERMO	0.3	MILE	\$14,000.00	\$3,920.00
PAVEMENT MARKINGS - RECESSED	0.8	MILE	\$30,000.00	\$22,500.00
Traffic Control - Signing and Pavement Marking Subtotal				\$283,920.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,530,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4500	FT	\$100.00	\$450,000.00
Traffic Control - Traffic Signal Subtotal				\$450,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	867	FT	\$200.00	\$173,400.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$173,400.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	\$1.00	LUMP	\$42,000.00	\$42,000.00
MAINTENANCE OF TRAFFIC	\$1.00	LUMP	\$167,000.00	\$167,000.00
MOBILIZATION	\$1.00	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$409,000.00

Project Summary	Subtotal
Roadway	\$1,625,952
Erosion Control	\$194,012
Drainage	\$2,205,000
Pavement	\$2,079,500
Traffic Control - Signing and Pavement Marking	\$283,920
Traffic Signal and Surveillance	\$1,530,000
Roadway Lighting	\$450,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$173,400
Structures	\$0
Incidentals	\$409,000
Total	\$8,951,000

Contingency (30%)	\$2,685,000
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Subtotal	\$11,636,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,094,000
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Construction Engineering (10%)	\$1,164,000
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Subtotal	\$14,894,000
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Inflation (30%)	\$4,468,200
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Project Total (2030 Dollars)	\$19,362,000
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Estimate completed by:



SEGMENT 5 CONCEPT E - RANGE 3
515 + 00.00 TO 535 + 00.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,250	SY	\$20.00	\$525,000.00
CULVERT REMOVED	0	FT	\$100.00	\$0.00
EXCAVATION	13,886	CY	\$40.00	\$555,429.60
EMBANKMENT	3,340	CY	\$45.00	\$150,317.10
GUARDRAIL	500	FT	\$22.00	\$11,000.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,300	FT	\$42.00	\$264,600.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$1,506,346.70

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	68,000	EACH	\$1.00	\$68,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$57,000.00	\$57,000.00
SEEDING AND MULCHING	10,306	SY	\$2.00	\$20,611.82
Erosion Control Subtotal				\$170,611.82

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	0	FT	\$600.00	\$0.00
STORM SEWER SYSTEM	5,800	FT	\$300.00	\$1,740,000.00
UNDERDRAINS	5,800	FT	\$15.00	\$87,000.00
Drainage Subtotal				\$1,827,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	14,520	SY	\$100.00	\$1,452,000.00
PAVEMENT PLANING AND RESURFACING	9,000	SY	\$54.00	\$486,000.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$1,938,000.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.6	MILE	\$250,000.00	\$405,000.00
PAVEMENT MARKINGS - THERMO	0.4	MILE	\$14,000.00	\$5,600.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,600.00
Traffic Control - Signing and Pavement Marking Subtotal				\$447,200.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$204,000.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$627,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	6500	FT	\$100.00	\$650,000.00
Traffic Control - Traffic Signal Subtotal				\$650,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	180	FT	\$200.00	\$36,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$36,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$36,000.00	\$36,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$143,000.00	\$143,000.00
MOBILIZATION	1	LUMP	\$200,000.00	\$200,000.00
Miscellaneous Subtotal				\$379,000.00

Project Summary	Subtotal
Roadway	\$1,506,347
Erosion Control	\$170,612
Drainage	\$1,827,000
Pavement	\$1,938,000
Traffic Control - Signing and Pavement Marking	\$447,200
Traffic Signal and Surveillance	\$627,000
Roadway Lighting	\$650,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$36,000
Structures	\$0
Incidentals	\$379,000
Total	\$7,581,000

Contingency (30%)	\$2,274,000
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Subtotal	\$9,855,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,774,000
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Construction Engineering (10%)	\$986,000
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Subtotal	\$12,615,000
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Inflation (30%)	\$3,784,500
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Project Total (2030 Dollars)	\$16,400,000
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Estimate completed by:



SEGMENT 5 CONCEPT E - RANGE 4
535 + 00.00 TO 573 + 68.00

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	18,900	SY	\$20.00	\$378,000.00
CULVERT REMOVED	40	FT	\$100.00	\$4,000.00
EXCAVATION	28,258	CY	\$40.00	\$1,130,312.80
EMBANKMENT	16,896	CY	\$45.00	\$760,305.60
GUARDRAIL	1,000	FT	\$22.00	\$22,000.00
MEDIAN BARRIER	0	FT	\$120.00	\$0.00
CURB AND GUTTER	6,200	FT	\$42.00	\$260,400.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK	0	SF	\$13.00	\$0.00
Roadway Subtotal				\$2,555,018.40

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	162,000	EACH	\$1.00	\$162,000.00
EROSION CONTROL PLAN	1	LUMP	\$25,000.00	\$25,000.00
BMPs	1	LUMP	\$122,000.00	\$122,000.00
SEEDING AND MULCHING	27,065	SY	\$2.00	\$54,129.65
Erosion Control Subtotal				\$363,129.65

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	6,800	FT	\$300.00	\$2,040,000.00
UNDERDRAINS	6,800	FT	\$15.00	\$102,000.00
Drainage Subtotal				\$2,166,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	25,400	SY	\$100.00	\$2,540,000.00
PAVEMENT PLANING AND RESURFACING	11,250	SY	\$54.00	\$607,500.00
SHARED USE PATH	0	SY	\$42.00	\$0.00
Pavement Subtotal				\$3,147,500.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.4	MILE	\$250,000.00	\$600,000.00
PAVEMENT MARKINGS - THERMO	1.2	MILE	\$14,000.00	\$16,800.00
PAVEMENT MARKINGS - RECESSED	1.2	MILE	\$30,000.00	\$36,000.00
Traffic Control - Signing and Pavement Marking Subtotal				\$652,800.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	2	MILE	\$170,000.00	\$380,000.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$1,226,800.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3500	FT	\$100.00	\$350,000.00
Traffic Control - Traffic Signal Subtotal				\$350,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE	220	FT	\$200.00	\$44,000.00
WATERLINE 36" OR LARGER	0	FT		\$0.00
HIGH VOLTAGE TOWER	0	EACH		\$0.00
SANITARY LINE 36" OR LARGER	0	FT		\$0.00
DAM MODIFICATION	0	LUMP		\$0.00
Water/Wastewater Subtotal				\$44,000.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	0	SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Structures Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$58,000.00	\$58,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$232,000.00	\$232,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$690,000.00

Project Summary	Subtotal
Roadway	\$2,555,018
Erosion Control	\$363,130
Drainage	\$2,166,000
Pavement	\$3,147,500
Traffic Control - Signing and Pavement Marking	\$652,800
Traffic Signal and Surveillance	\$1,226,800
Roadway Lighting	\$350,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$44,000
Structures	\$0
Incidentals	\$690,000
Total	\$11,195,000

Contingency (30%)	\$3,359,000
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Subtotal	\$14,554,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,620,000
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Construction Engineering (10%)	\$1,455,000
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Subtotal	\$18,629,000
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Inflation (30%)	\$5,588,700
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Project Total (2030 Dollars)	\$24,218,000
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Estimate completed by:

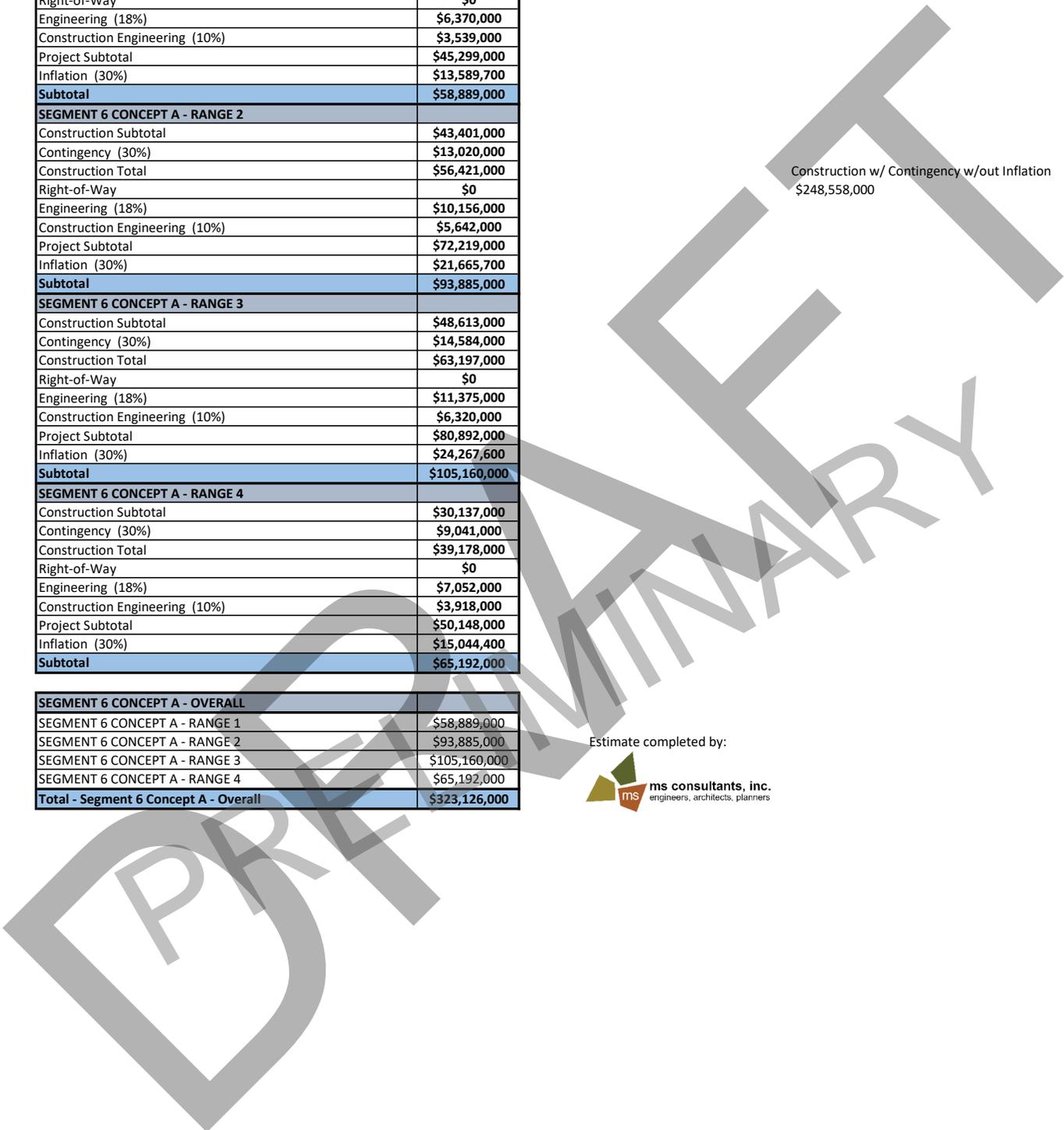


SEGMENT 6 CONCEPT A - OVERALL

SEGMENT 6 CONCEPT A - RANGE 1	Quantity
Construction Subtotal	\$27,223,000
Contingency (30%)	\$8,167,000
Construction Total	\$35,390,000
Right-of-Way	\$0
Engineering (18%)	\$6,370,000
Construction Engineering (10%)	\$3,539,000
Project Subtotal	\$45,299,000
Inflation (30%)	\$13,589,700
Subtotal	\$58,889,000
SEGMENT 6 CONCEPT A - RANGE 2	
Construction Subtotal	\$43,401,000
Contingency (30%)	\$13,020,000
Construction Total	\$56,421,000
Right-of-Way	\$0
Engineering (18%)	\$10,156,000
Construction Engineering (10%)	\$5,642,000
Project Subtotal	\$72,219,000
Inflation (30%)	\$21,665,700
Subtotal	\$93,885,000
SEGMENT 6 CONCEPT A - RANGE 3	
Construction Subtotal	\$48,613,000
Contingency (30%)	\$14,584,000
Construction Total	\$63,197,000
Right-of-Way	\$0
Engineering (18%)	\$11,375,000
Construction Engineering (10%)	\$6,320,000
Project Subtotal	\$80,892,000
Inflation (30%)	\$24,267,600
Subtotal	\$105,160,000
SEGMENT 6 CONCEPT A - RANGE 4	
Construction Subtotal	\$30,137,000
Contingency (30%)	\$9,041,000
Construction Total	\$39,178,000
Right-of-Way	\$0
Engineering (18%)	\$7,052,000
Construction Engineering (10%)	\$3,918,000
Project Subtotal	\$50,148,000
Inflation (30%)	\$15,044,400
Subtotal	\$65,192,000
SEGMENT 6 CONCEPT A - OVERALL	
SEGMENT 6 CONCEPT A - RANGE 1	\$58,889,000
SEGMENT 6 CONCEPT A - RANGE 2	\$93,885,000
SEGMENT 6 CONCEPT A - RANGE 3	\$105,160,000
SEGMENT 6 CONCEPT A - RANGE 4	\$65,192,000
Total - Segment 6 Concept A - Overall	\$323,126,000

Construction w/ Contingency w/out Inflation
\$248,558,000

Estimate completed by:



SEGMENT 6 CONCEPT A - RANGE 1
S of Pennsylvania Ave to N of Pennsylvania Ave

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	11,607	SY	\$20.00	\$232,140.00
CULVERT REMOVED	208	FT	\$100.00	\$20,800.00
EXCAVATION	62,282	CY	\$40.00	\$2,491,280.00
EMBANKMENT	97,125	CY	\$45.00	\$4,370,625.00
GUARDRAIL	1,508	FT	\$22.00	\$33,176.00
MEDIAN BARRIER	4,075	FT	\$120.00	\$489,000.00
CURB AND GUTTER	4,451	FT	\$42.00	\$186,942.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$7,823,963.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	550,000	EACH	\$1.00	\$550,000.00
EROSION CONTROL PLAN	1	LUMP	\$142,000.00	\$142,000.00
BMPs	1	LUMP	\$500,000.00	\$500,000.00
SEEDING AND MULCHING	71,415	SY	\$2.00	\$142,830.00
Erosion Control Subtotal				\$1,334,830.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	208	FT	\$600.00	\$124,800.00
STORM SEWER SYSTEM	12,454	FT	\$300.00	\$3,736,200.00
UNDERDRAINS	20,833	FT	\$15.00	\$312,495.00
Drainage Subtotal				\$4,173,495.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	17,933	SY	\$100.00	\$1,793,300.00
FULL-DEPTH PAVEMENT - CONCRETE	15,586	SY	\$150.00	\$2,337,900.00
PAVEMENT PLANING AND RESURFACING	32,304	SY	\$54.00	\$1,744,416.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$5,875,616.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.36	MILE	\$250,000.00	\$589,678.03
PAVEMENT MARKINGS - THERMO	2.36	MILE	\$14,000.00	\$33,021.97
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$622,700.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1	MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$300,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	12,454	FT	\$100.00	\$1,245,400.00
Traffic Control - Traffic Signal Subtotal				\$1,745,400.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH-PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	18,960	SF	\$90.00	\$1,706,400.00
BRIDGE	8,672	SF	\$220.00	\$1,907,840.00
Pavement Subtotal				\$3,614,240.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$133,000.00	\$133,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$800,000.00	\$800,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,733,000.00

Project Summary	Subtotal
Roadway	\$7,823,963
Erosion Control	\$1,334,830
Drainage	\$4,173,495
Pavement	\$5,875,616
Traffic Control - Signing and Pavement Marking	\$622,700
Traffic Signal and Surveillance	\$300,000
Roadway Lighting	\$1,745,400
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,614,240
Incidentals	\$1,733,000
Total	\$27,223,000

Contingency (30%)	\$8,167,000
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Subtotal	\$35,390,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,370,000
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Construction Engineering (10%)	\$3,539,000
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Subtotal	\$45,299,000
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Inflation (30%)	\$13,589,700
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Project Total (2030 Dollars)	\$58,889,000
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Estimate completed by:



SEGMENT 6 CONCEPT A - RANGE 2
S of Pinecrest Dr to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	27,152	SY	\$20.00	\$543,044.44
CULVERT REMOVED	301	FT	\$100.00	\$30,100.00
EXCAVATION	20,090	CY	\$40.00	\$803,600.00
EMBANKMENT	169,837	CY	\$45.00	\$7,642,665.00
GUARDRAIL	3,960	FT	\$22.00	\$87,120.00
MEDIAN BARRIER	4,200	FT	\$120.00	\$504,000.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	2,115	SF	\$13.00	\$27,495.00
Roadway Subtotal				\$9,638,024.44

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	845,000	EACH	\$1.00	\$845,000.00
EROSION CONTROL PLAN	1	LUMP	\$400,000.00	\$400,000.00
BMPs	1	LUMP	\$760,000.00	\$760,000.00
SEEDING AND MULCHING	227,000	SY	\$2.00	\$454,000.00
Erosion Control Subtotal				\$2,459,000.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	13,146	FT	\$300.00	\$3,943,800.00
UNDERDRAINS	26,292	FT	\$15.00	\$394,380.00
Drainage Subtotal				\$4,338,180.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	30,356	SY	\$100.00	\$3,035,555.56
FULL-DEPTH PAVEMENT - CONCRETE	33,348	SY	\$150.00	\$5,002,200.00
PAVEMENT PLANING AND RESURFACING	12,666	SY	\$54.00	\$683,988.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$8,721,743.56

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.49	MILE	\$250,000.00	\$622,443.18
PAVEMENT MARKINGS - THERMO	2.49	MILE	\$14,000.00	\$34,856.82
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$657,300.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$600,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	13,146	FT	\$100.00	\$1,314,600.00
Traffic Control - Traffic Signal Subtotal				\$1,814,600.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	56,656	SF	\$220.00	\$12,464,320.00
Pavement Subtotal				\$12,464,320.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$208,000.00	\$208,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$1,300,000.00	\$1,300,000.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,708,000.00

Project Summary	Subtotal
Roadway	\$9,638,024
Erosion Control	\$2,459,000
Drainage	\$4,338,180
Pavement	\$8,721,744
Traffic Control - Signing and Pavement Marking	\$657,300
Traffic Signal and Surveillance	\$600,000
Roadway Lighting	\$1,814,600
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$12,464,320
Incidentals	\$2,708,000
Total	\$43,401,000

Contingency (30%)	\$13,020,000
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Subtotal	\$56,421,000
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Right-of-Way	\$0
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Engineering (18%)	\$10,156,000
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Construction Engineering (10%)	\$5,642,000
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Subtotal	\$72,219,000
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Inflation (30%)	\$21,665,700
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Project Total (2030 Dollars)	\$93,885,000
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Estimate completed by:



SEGMENT 6 CONCEPT A - RANGE 3
N of Merrick Mkyw to N of Hills-Miller Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	4,367	SY	\$20.00	\$87,340.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	158,269	CY	\$40.00	\$6,330,760.00
EMBANKMENT	212,864	CY	\$45.00	\$9,578,880.00
GUARDRAIL	300	FT	\$22.00	\$6,600.00
MEDIAN BARRIER	4,075	FT	\$120.00	\$489,000.00
CURB AND GUTTER	3,556	FT	\$42.00	\$149,352.00
CONCRETE MEDIAN	460	SY	\$100.00	\$46,000.00
CONCRETE WALK	153	SF	\$13.00	\$1,982.50
Roadway Subtotal				\$16,689,914.50

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	985,000	EACH	\$1.00	\$985,000.00
EROSION CONTROL PLAN	1	LUMP	\$85,000.00	\$85,000.00
BMPs	1	LUMP	\$890,000.00	\$890,000.00
SEEDING AND MULCHING	85,398	SY	\$2.00	\$170,796.00
Erosion Control Subtotal				\$2,130,796.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	24,480	FT	\$300.00	\$7,344,000.00
UNDERDRAINS	48,960	FT	\$15.00	\$734,400.00
Drainage Subtotal				\$8,078,400.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	81,223	SY	\$100.00	\$8,122,300.00
FULL-DEPTH PAVEMENT - CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	25,469	SY	\$54.00	\$1,375,326.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,497,626.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	4.64	MILE	\$250,000.00	\$1,159,090.91
PAVEMENT MARKINGS - THERMO	4.64	MILE	\$14,000.00	\$64,909.09
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$1,224,000.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$600,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	24,480	FT	\$100.00	\$2,448,000.00
Traffic Control - Traffic Signal Subtotal				\$2,948,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	20,800	SF	\$220.00	\$4,576,000.00
Pavement Subtotal				\$4,576,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$237,000.00	\$237,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$1,431,300.00	\$1,431,300.00
MOBILIZATION	1	LUMP	\$1,200,000.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,868,300.00

Project Summary	Subtotal
Roadway	\$16,689,915
Erosion Control	\$2,130,796
Drainage	\$8,078,400
Pavement	\$9,497,626
Traffic Control - Signing and Pavement Marking	\$1,224,000
Traffic Signal and Surveillance	\$600,000
Roadway Lighting	\$2,948,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$4,576,000
Incidentals	\$2,868,300
Total	\$48,613,000

Contingency (30%)	\$14,584,000
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Subtotal	\$63,197,000
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Right-of-Way	\$0
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Engineering (18%)	\$11,375,000
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Construction Engineering (10%)	\$6,320,000
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Subtotal	\$80,892,000
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Inflation (30%)	\$24,267,600
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Project Total (2030 Dollars)	\$105,160,000
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Estimate completed by:



SEGMENT 6 CONCEPT A - RANGE 4
S of Coover Rd to N of Coover Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	4,777	SY	\$20.00	\$95,533.33
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	73,614	CY	\$40.00	\$2,944,560.00
EMBANKMENT	148,704	CY	\$45.00	\$6,691,680.00
GUARDRAIL	300	FT	\$22.00	\$6,600.00
MEDIAN BARRIER	3,921	FT	\$120.00	\$470,520.00
CURB AND GUTTER	3,394	FT	\$42.00	\$142,548.00
CONCRETE MEDIAN	400	SY	\$100.00	\$40,000.00
CONCRETE WALK	162	SF	\$13.00	\$2,101.67
Roadway Subtotal				\$10,393,543.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	625,000	EACH	\$1.00	\$625,000.00
EROSION CONTROL PLAN	1	LUMP	\$80,000.00	\$80,000.00
BMPs	1	LUMP	\$560,000.00	\$560,000.00
SEEDING AND MULCHING	79,170	SY	\$2.00	\$158,340.00
Erosion Control Subtotal				\$1,423,340.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	14,212	FT	\$300.00	\$4,263,600.00
UNDERDRAINS	28,424	FT	\$15.00	\$426,360.00
Drainage Subtotal				\$4,689,960.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	45,890	SY	\$100.00	\$4,588,966.67
FULL-DEPTH PAVEMENT - CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	23,811	SY	\$54.00	\$1,285,812.00
SHARED USE PATH	126	SY	\$42.00	\$5,292.00
Pavement Subtotal				\$5,880,070.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.69	MILE	\$250,000.00	\$672,916.67
PAVEMENT MARKINGS - THERMO	2.69	MILE	\$14,000.00	\$37,683.33
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$710,600.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$600,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	24,480	FT	\$100.00	\$2,448,000.00
Traffic Control - Traffic Signal Subtotal				\$2,748,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	8,320	SF	\$220.00	\$1,830,400.00
Structures Subtotal				\$1,830,400.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$151,000.00	\$151,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$910,000.00	\$910,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,861,000.00

Project Summary	Subtotal
Roadway	\$10,393,543
Erosion Control	\$1,423,340
Drainage	\$4,689,960
Pavement	\$5,880,071
Traffic Control - Signing and Pavement Marking	\$710,600
Traffic Signal and Surveillance	\$600,000
Roadway Lighting	\$2,748,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,830,400
Incidentals	\$1,861,000
Total	\$30,137,000

Contingency (30%)	\$9,041,000
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Subtotal	\$39,178,000
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Right-of-Way	\$0
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Engineering (18%)	\$7,052,000
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Construction Engineering (10%)	\$3,918,000
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Subtotal	\$50,148,000
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Inflation (30%)	\$15,044,400
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Project Total (2030 Dollars)	\$65,192,000
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Estimate completed by:



SEGMENT 6 CONCEPT B - OVERALL

SEGMENT 6 CONCEPT B - RANGE 1	Quantity
Construction Subtotal	\$26,907,000
Contingency (30%)	\$8,072,000
Construction Total	\$34,979,000
Right-of-Way	\$0
Engineering (18%)	\$6,296,000
Construction Engineering (10%)	\$3,498,000
Project Subtotal	\$44,773,000
Inflation (30%)	\$13,431,900
Subtotal	\$58,205,000
SEGMENT 6 CONCEPT B - RANGE 2	
Construction Subtotal	\$28,324,000
Contingency (30%)	\$8,497,000
Construction Total	\$36,821,000
Right-of-Way	\$0
Engineering (18%)	\$6,628,000
Construction Engineering (10%)	\$3,682,000
Project Subtotal	\$47,131,000
Inflation (30%)	\$14,139,300
Subtotal	\$61,270,000
SEGMENT 6 CONCEPT B - RANGE 3	
Construction Subtotal	\$27,468,000
Contingency (30%)	\$8,240,000
Construction Total	\$35,708,000
Right-of-Way	\$0
Engineering (18%)	\$6,427,000
Construction Engineering (10%)	\$3,571,000
Project Subtotal	\$45,706,000
Inflation (30%)	\$13,711,800
Subtotal	\$59,418,000
SEGMENT 6 CONCEPT B - RANGE 4	
Construction Subtotal	\$16,637,000
Contingency (30%)	\$4,991,000
Construction Total	\$21,628,000
Right-of-Way	\$0
Engineering (18%)	\$3,893,000
Construction Engineering (10%)	\$2,163,000
Project Subtotal	\$27,684,000
Inflation (30%)	\$8,305,200
Subtotal	\$35,989,000
SEGMENT 6 CONCEPT B - OVERALL	
SEGMENT 6 CONCEPT B - RANGE 1	\$58,205,000
SEGMENT 6 CONCEPT B - RANGE 2	\$61,270,000
SEGMENT 6 CONCEPT B - RANGE 3	\$59,418,000
SEGMENT 6 CONCEPT B - RANGE 4	\$35,989,000
Total - Segment 6 Concept B - Overall	\$214,882,000

Construction w/ Contingency w/out Inflation
\$165,294,000

Estimate completed by:



PRELIMINARY

SEGMENT 6 CONCEPT B - RANGE 1
S of Pennsylvania Ave to N of Pennsylvania Ave

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	12,511	SY	\$20.00	\$250,220.00
CULVERT REMOVED	208	FT	\$100.00	\$20,800.00
EXCAVATION	62,282	CY	\$40.00	\$2,491,280.00
EMBANKMENT	97,125	CY	\$45.00	\$4,370,625.00
GUARDRAIL	1,508	FT	\$22.00	\$33,176.00
MEDIAN BARRIER	4,075	FT	\$120.00	\$489,000.00
CURB AND GUTTER	4,451	FT	\$42.00	\$186,942.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$7,842,043.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	550,000	EACH	\$1.00	\$550,000.00
EROSION CONTROL PLAN	1	LUMP	\$142,000.00	\$142,000.00
BMPs	1	LUMP	\$500,000.00	\$500,000.00
SEEDING AND MULCHING	71,415	SY	\$2.00	\$142,830.00
Erosion Control Subtotal				\$1,334,830.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	208	FT	\$600.00	\$124,800.00
STORM SEWER SYSTEM	12,454	FT	\$300.00	\$3,736,200.00
UNDERDRAINS	20,833	FT	\$15.00	\$312,495.00
Drainage Subtotal				\$4,173,495.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	16,992	SY	\$100.00	\$1,699,200.00
FULL-DEPTH PAVEMENT - CONCRETE	15,586	SY	\$150.00	\$2,337,900.00
PAVEMENT PLANING AND RESURFACING	33,245	SY	\$54.00	\$1,795,230.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$5,832,330.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.36	MILE	\$250,000.00	\$589,678.03
PAVEMENT MARKINGS - THERMO	1.77	MILE	\$14,000.00	\$24,780.00
PAVEMENT MARKINGS - RECESSED	0.59	MILE	\$30,000.00	\$17,700.00
Traffic Control - Signing and Pavement Marking Subtotal				\$632,158.03

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	32,454	FT	\$100.00	\$1,245,400.00
Traffic Control - Traffic Signal Subtotal				\$1,745,400.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL	18,960	SF	\$90.00	\$1,706,400.00
BRIDGE	8,672	SF	\$220.00	\$1,907,840.00
Structures Subtotal				\$3,614,240.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$133,000.00	\$133,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$800,000.00	\$800,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,733,000.00

Project Summary	Subtotal
Roadway	\$7,842,043
Erosion Control	\$1,334,830
Drainage	\$4,173,495
Pavement	\$5,832,330
Traffic Control - Signing and Pavement Marking	\$632,158
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$1,745,400
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,614,240
Incidentals	\$1,733,000
Total	\$26,907,000

Contingency (30%)	\$8,072,000
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Subtotal	\$34,979,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,296,000
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Construction Engineering (10%)	\$3,498,000
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Subtotal	\$44,773,000
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Inflation (30%)	\$13,431,900
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Project Total (2030 Dollars)	\$58,205,000
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Estimate completed by:



SEGMENT 6 CONCEPT B - RANGE 2
S of Pinecrest Dr to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	26,500	SY	\$20.00	\$530,000.00
CULVERT REMOVED	301	FT	\$100.00	\$30,100.00
EXCAVATION	104,192	CY	\$40.00	\$4,167,680.00
EMBANKMENT	145,716	CY	\$45.00	\$6,557,220.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER	4,200	FT	\$120.00	\$504,000.00
CURB AND GUTTER	3,100	FT	\$42.00	\$130,200.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK	940	SF	\$13.00	\$12,215.67
Roadway Subtotal				\$11,931,415.67

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	720,000	EACH	\$1.00	\$720,000.00
EROSION CONTROL PLAN	1	LUMP	\$70,000.00	\$70,000.00
BMPs	1	LUMP	\$650,000.00	\$650,000.00
SEEDING AND MULCHING	69,623	SY	\$2.00	\$139,246.00
Erosion Control Subtotal				\$1,579,246.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	301	FT	\$600.00	\$180,600.00
STORM SEWER SYSTEM	9,385	FT	\$300.00	\$2,815,500.00
UNDERDRAINS	18,770	FT	\$15.00	\$281,550.00
Drainage Subtotal				\$3,277,650.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	13,180	SY	\$100.00	\$1,318,000.00
FULL-DEPTH PAVEMENT - CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	44,067	SY	\$54.00	\$2,379,618.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$3,697,618.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.78	MILE	\$250,000.00	\$444,365.53
PAVEMENT MARKINGS - THERMO	1.78	MILE	\$14,000.00	\$24,884.47
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$469,250.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$423,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	9,385	FT	\$100.00	\$938,500.00
Traffic Control - Traffic Signal Subtotal				\$1,238,500.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	16,729	SF	\$220.00	\$3,680,463.60
Pavement Subtotal				\$3,680,463.60

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46,666 16729.38

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$174,500.00	\$174,500.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$1,052,000.00	\$1,052,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$2,026,500.00

Project Summary	Subtotal
Roadway	\$11,931,416
Erosion Control	\$1,579,246
Drainage	\$3,277,650
Pavement	\$3,697,618
Traffic Control - Signing and Pavement Marking	\$469,250
Traffic Signal and Surveillance	\$423,000
Roadway Lighting	\$1,238,500
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,680,464
Incidentals	\$2,026,500
Total	\$28,324,000

Contingency (30%)	\$8,497,000
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Subtotal	\$36,821,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,628,000
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Construction Engineering (10%)	\$3,682,000
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Subtotal	\$47,131,000
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Inflation (30%)	\$14,139,300
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Project Total (2030 Dollars)	\$61,270,000
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Estimate completed by:
 **ims consultants, inc.**
 engineers, architects, planners

SEGMENT 6 CONCEPT B - RANGE 3
N of Merrick Mkyw to N of Hills-Miller Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,460	SY	\$20.00	\$49,200.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	73,291	CY	\$40.00	\$2,931,640.00
EMBANKMENT	74,482	CY	\$45.00	\$3,351,690.00
GUARDRAIL	675	FT	\$22.00	\$14,850.00
MEDIAN BARRIER	4,075	FT	\$120.00	\$489,000.00
CURB AND GUTTER	3,556	FT	\$42.00	\$149,352.00
CONCRETE MEDIAN	460	SY	\$100.00	\$46,000.00
CONCRETE WALK	153	SF	\$13.00	\$1,982.50
Roadway Subtotal				\$7,033,714.50

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	555,000	EACH	\$1.00	\$555,000.00
EROSION CONTROL PLAN	1	LUMP	\$90,000.00	\$90,000.00
BMPs	1	LUMP	\$500,000.00	\$500,000.00
SEEDING AND MULCHING	88,680	SY	\$2.00	\$177,360.00
Erosion Control Subtotal				\$1,322,360.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	13,258	FT	\$300.00	\$3,977,400.00
UNDERDRAINS	26,516	FT	\$15.00	\$397,740.00
Drainage Subtotal				\$4,375,140.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	34,766	SY	\$100.00	\$3,476,600.00
FULL-DEPTH PAVEMENT - CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	29,744	SY	\$54.00	\$1,606,176.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$5,082,776.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.51	MILE	\$250,000.00	\$627,746.21
PAVEMENT MARKINGS - THERMO	2.51	MILE	\$14,000.00	\$35,153.79
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$662,900.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$846,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	13,258	FT	\$100.00	\$1,325,800.00
Traffic Control - Traffic Signal Subtotal				\$1,825,800.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	20,800	SF	\$220.00	\$4,576,000.00
Structures Subtotal				\$4,576,000.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$134,000.00	\$134,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$809,000.00	\$809,000.00
MOBILIZATION	1	LUMP	\$800,000.00	\$800,000.00
Miscellaneous Subtotal				\$1,743,000.00

Project Summary	Subtotal
Roadway	\$7,033,715
Erosion Control	\$1,322,360
Drainage	\$4,375,140
Pavement	\$5,082,776
Traffic Control - Signing and Pavement Marking	\$662,900
Traffic Signal and Surveillance	\$846,000
Roadway Lighting	\$1,825,800
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$4,576,000
Incidentals	\$1,743,000
Total	\$27,468,000

Contingency (30%)	\$8,240,000
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Subtotal	\$35,708,000
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Right-of-Way	\$0
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Engineering (18%)	\$6,427,000
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Construction Engineering (10%)	\$3,571,000
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Subtotal	\$45,706,000
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Inflation (30%)	\$13,711,800
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Project Total (2030 Dollars)	\$59,418,000
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Estimate completed by:



SEGMENT 6 CONCEPT B - RANGE 4
S of Coover Rd to N of Coover Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	8,544	SY	\$20.00	\$170,880.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	35,746	CY	\$40.00	\$1,429,840.00
EMBANKMENT	52,536	CY	\$45.00	\$2,364,120.00
GUARDRAIL	300	FT	\$22.00	\$6,600.00
MEDIAN BARRIER	3,921	FT	\$120.00	\$470,520.00
CURB AND GUTTER	3,394	FT	\$42.00	\$142,548.00
CONCRETE MEDIAN	400	SY	\$100.00	\$40,000.00
CONCRETE WALK	162	SF	\$13.00	\$2,101.67
Roadway Subtotal				\$4,626,609.67

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	370,000	EACH	\$1.00	\$370,000.00
EROSION CONTROL PLAN	1	LUMP	\$85,000.00	\$85,000.00
BMPs	1	LUMP	\$330,000.00	\$330,000.00
SEEDING AND MULCHING	85,551	SY	\$2.00	\$171,102.00
Erosion Control Subtotal				\$956,102.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	8,173	FT	\$300.00	\$2,451,900.00
UNDERDRAINS	16,346	FT	\$15.00	\$245,190.00
Drainage Subtotal				\$2,697,090.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL-DEPTH PAVEMENT - ASPHALT	11,281	SY	\$100.00	\$1,128,100.00
FULL-DEPTH PAVEMENT - CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	36,948	SY	\$54.00	\$1,995,192.00
SHARED USE PATH	126	SY	\$42.00	\$5,311.09
Pavement Subtotal				\$3,128,603.09

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.55	MILE	\$250,000.00	\$386,979.17
PAVEMENT MARKINGS - THERMO	1.55	MILE	\$14,000.00	\$21,670.83
PAVEMENT MARKINGS - RECESSED		MILE	\$30,000.00	\$0.00
Traffic Control - Signing and Pavement Marking Subtotal				\$408,650.00

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV	2	EACH	\$123,000.00	\$246,000.00
Traffic Control - Traffic Signal Subtotal				\$846,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	8,173	FT	\$100.00	\$817,300.00
Traffic Control - Traffic Signal Subtotal				\$1,117,300.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	8,320	SF	\$220.00	\$1,830,400.00
Pavement Subtotal				\$1,830,400.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	1	LUMP	\$89,000.00	\$89,000.00
MAINTENANCE OF TRAFFIC	1	LUMP	\$537,000.00	\$537,000.00
MOBILIZATION	1	LUMP	\$400,000.00	\$400,000.00
Miscellaneous Subtotal				\$1,026,000.00

Project Summary	Subtotal
Roadway	\$4,626,610
Erosion Control	\$956,102
Drainage	\$2,697,090
Pavement	\$3,128,603
Traffic Control - Signing and Pavement Marking	\$408,650
Traffic Signal and Surveillance	\$846,000
Roadway Lighting	\$1,117,300
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,830,400
Incidentals	\$1,026,000
Total	\$16,637,000

Contingency (30%)	\$4,991,000
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Subtotal	\$21,628,000
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Right-of-Way	\$0
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Engineering (18%)	\$3,893,000
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Construction Engineering (10%)	\$2,163,000
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Subtotal	\$27,684,000
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Inflation (30%)	\$8,305,200
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Project Total (2030 Dollars)	\$35,989,000
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Estimate completed by:



SEGMENT 6 CONCEPT C - OVERALL

SEGMENT 6 CONCEPT C - RANGE 1	
Construction Subtotal	\$9,616,000
Contingency (30%)	\$2,885,000
Construction Total	\$12,501,000
Right-of-Way	\$0
Engineering (18%)	\$2,250,000
Construction Engineering (10%)	\$1,250,000
Project Subtotal	\$16,001,000
Inflation (30%)	\$4,800,300
Subtotal	\$20,801,000
SEGMENT 6 CONCEPT C - RANGE 2	
Construction Subtotal	\$3,768,000
Contingency (30%)	\$1,130,000
Construction Total	\$4,898,000
Right-of-Way	\$0
Engineering (18%)	\$882,000
Construction Engineering (10%)	\$490,000
Project Subtotal	\$6,270,000
Inflation (30%)	\$1,881,000
Subtotal	\$8,151,000
SEGMENT 6 CONCEPT C - RANGE 3	
Construction Subtotal	\$18,925,000
Contingency (30%)	\$5,678,000
Construction Total	\$24,603,000
Right-of-Way	\$0
Engineering (18%)	\$4,429,000
Construction Engineering (10%)	\$2,460,000
Project Subtotal	\$31,492,000
Inflation (30%)	\$9,447,600
Subtotal	\$40,940,000
SEGMENT 6 CONCEPT C - RANGE 4	
Construction Subtotal	\$2,549,000
Contingency (30%)	\$765,000
Construction Total	\$3,314,000
Right-of-Way	\$0
Engineering (18%)	\$597,000
Construction Engineering (10%)	\$331,000
Project Subtotal	\$4,242,000
Inflation (30%)	\$1,272,600
Subtotal	\$5,515,000
SEGMENT 6 CONCEPT C - OVERALL	
SEGMENT 6 CONCEPT C - RANGE 1	\$20,801,000
SEGMENT 6 CONCEPT C - RANGE 2	\$8,151,000
SEGMENT 6 CONCEPT C - RANGE 3	\$40,940,000
SEGMENT 6 CONCEPT C - RANGE 4	\$5,515,000
Total - Segment 6 Concept C - Overall	\$75,407,000

Construction w/ Contingency w/out Inflation
\$58,005,000

Estimate completed by:



SEGMENT 6 CONCEPT C - RANGE 1
S of Pennsylvania Ave to N of Pennsylvania Ave

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,120	SY	\$20.00	\$42,402.22
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,538	CY	\$40.00	\$101,520.00
EMBANKMENT	71,012	CY	\$45.00	\$3,195,540.00
GUARDRAIL	900	FT	\$22.00	\$19,800.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	1,669	SY	\$100.00	\$166,911.11
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,526,173.33

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	170,000	LUMP	\$1.00	\$170,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$150,000.00	\$150,000.00
SEEDING AND MULCHING	21,643	SY	\$2.00	\$43,285.97
Erosion Control Subtotal				\$403,285.97

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	3,930	FT	\$300.00	\$1,179,000.00
UNDERDRAINS	11,616	FT	\$15.00	\$174,232.50
Drainage Subtotal				\$1,353,232.50

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	1,753	SY	\$100.00	\$175,277.78
FULL DEPTH PAVEMENT, CONCRETE	3,699	SY	\$150.00	\$554,916.67
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$730,194.44

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.744	MILE	\$250,000.00	\$186,079.55
PAVEMENT MARKINGS - THERMO	0.388	MILE	\$14,000.00	\$5,435.61
PAVEMENT MARKINGS - RECESSED	0.356	MILE	\$30,000.00	\$10,681.82
Traffic Control - Signing and Pavement Marking Subtotal				\$202,196.97

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.356	MILE	\$170,000.00	\$60,530.30
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$60,530.30

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	3930	FT	\$100.00	\$393,000.00
Traffic Control - Traffic Signal Subtotal				\$693,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	8,672	SF	\$220.00	\$1,907,840.00
Structures Subtotal				\$1,907,840.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	85000	LUMP	\$1.00	\$85,000.00
MAINTENANCE OF TRAFFIC	255000	LUMP	\$1.00	\$255,000.00
MOBILIZATION	400000	LUMP	\$1.00	\$400,000.00
Miscellaneous Subtotal				\$740,000.00

Project Summary	Subtotal
Roadway	\$3,526,173
Erosion Control	\$403,286
Drainage	\$1,353,233
Pavement	\$730,194
Traffic Control - Signing and Pavement Marking	\$202,197
Traffic Signal and Surveillance	\$60,530
Roadway Lighting	\$693,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,907,840
Incidentals	\$740,000
Total	\$9,616,000

Contingency (30%)	\$2,885,000
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Subtotal	\$12,501,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,250,000
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Construction Engineering (10%)	\$1,250,000
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Subtotal	\$16,001,000
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Inflation (30%)	\$4,800,300
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Project Total (2030 Dollars)	\$20,801,000
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Estimate completed by:



SEGMENT 6 CONCEPT C - RANGE 2
S of Pinecrest Dr to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED		SY	\$20.00	\$0.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	5,472	CY	\$40.00	\$218,880.00
EMBANKMENT	2,830	CY	\$45.00	\$127,350.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	3,836	SY	\$100.00	\$383,641.11
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$729,871.11

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	70,000	LUMP	\$1.00	\$70,000.00
EROSION CONTROL PLAN	1	LUMP	\$20,000.00	\$20,000.00
BMPs	1	LUMP	\$60,000.00	\$60,000.00
SEEDING AND MULCHING	10,633	SY	\$2.00	\$21,265.78
Erosion Control Subtotal				\$171,265.78

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	4,221	FT	\$300.00	\$1,266,300.00
UNDERDRAINS	8,442	FT	\$15.00	\$126,630.00
Drainage Subtotal				\$1,416,930.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	3,633	SY	\$100.00	\$363,300.00
FULL DEPTH PAVEMENT, CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$363,300.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.799	MILE	\$250,000.00	\$199,857.95
PAVEMENT MARKINGS - THERMO	0.000	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	0.799	MILE	\$30,000.00	\$23,982.95
Traffic Control - Signing and Pavement Marking Subtotal				\$223,840.91

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.799	MILE	\$170,000.00	\$135,903.41
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$135,903.41

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	4221	FT	\$100.00	\$422,100.00
Traffic Control - Traffic Signal Subtotal				\$422,100.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	35000	LUMP	\$1.00	\$35,000.00
MAINTENANCE OF TRAFFIC	70000	LUMP	\$1.00	\$70,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$305,000.00

Project Summary	Subtotal
Roadway	\$729,871
Erosion Control	\$171,266
Drainage	\$1,416,930
Pavement	\$363,300
Traffic Control - Signing and Pavement Marking	\$223,841
Traffic Signal and Surveillance	\$135,903
Roadway Lighting	\$422,100
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$305,000
Total	\$3,768,000

Contingency (30%)	\$1,130,000
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Subtotal	\$4,898,000
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Right-of-Way	\$0
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Engineering (18%)	\$882,000
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Construction Engineering (10%)	\$490,000
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Subtotal	\$6,270,000
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Inflation (30%)	\$1,881,000
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Project Total (2030 Dollars)	\$8,151,000
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Estimate completed by:



SEGMENT 6 CONCEPT C - RANGE 3
N of Merrick Mkyw to N of Hills-Miller Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED		SY	\$20.00	\$0.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	5,236	CY	\$40.00	\$209,440.00
EMBANKMENT	192,599	CY	\$45.00	\$8,666,955.00
GUARDRAIL	3,200	FT	\$22.00	\$70,400.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	1,583	SY	\$100.00	\$158,300.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$9,105,095.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	350,000	LUMP	\$1.00	\$350,000.00
EROSION CONTROL PLAN	1	LUMP	\$110,000.00	\$110,000.00
BMPs	1	LUMP	\$315,000.00	\$315,000.00
SEEDING AND MULCHING	56,934	SY	\$2.00	\$113,868.00
Erosion Control Subtotal				\$888,868.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	7,595	FT	\$300.00	\$2,278,455.00
UNDERDRAINS	15,190	FT	\$15.00	\$227,845.50
Drainage Subtotal				\$2,530,300.50

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	17,970	SY	\$100.00	\$1,796,988.89
FULL DEPTH PAVEMENT, CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$1,796,988.89

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1,438	MILE	\$250,000.00	\$359,604.64
PAVEMENT MARKINGS - THERMO	0.829	MILE	\$14,000.00	\$11,599.98
PAVEMENT MARKINGS - RECESSED	0.610	MILE	\$30,000.00	\$18,295.45
Traffic Control - Signing and Pavement Marking Subtotal				\$389,500.08

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	2	EACH	\$300,000.00	\$600,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.610	MILE	\$170,000.00	\$103,674.24
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$703,674.24

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	7594.85	FT	\$100.00	\$759,485.00
Traffic Control - Traffic Signal Subtotal				\$1,259,485.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	2,505	SF	\$220.00	\$551,100.00
Structures Subtotal				\$551,100.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	180000	LUMP	\$1.00	\$180,000.00
MAINTENANCE OF TRAFFIC	720000	LUMP	\$1.00	\$720,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,700,000.00

Project Summary	Subtotal
Roadway	\$9,105,095
Erosion Control	\$888,868
Drainage	\$2,530,301
Pavement	\$1,796,989
Traffic Control - Signing and Pavement Marking	\$389,500
Traffic Signal and Surveillance	\$703,674
Roadway Lighting	\$1,259,485
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$551,100
Incidentals	\$1,700,000
Total	\$18,925,000

Contingency (30%)	\$5,678,000
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Subtotal	\$24,603,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,429,000
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Construction Engineering (10%)	\$2,460,000
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Subtotal	\$31,492,000
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Inflation (30%)	\$9,447,600
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Project Total (2030 Dollars)	\$40,940,000
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Estimate completed by:



SEGMENT 6 CONCEPT C - RANGE 4
S of Coover Rd to N of Coover Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED		SY	\$20.00	\$0.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	997	CY	\$40.00	\$39,880.00
EMBANKMENT	1,993	CY	\$45.00	\$89,685.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$129,565.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	50,000	LUMP	\$1.00	\$50,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$45,000.00	\$45,000.00
SEEDING AND MULCHING	2,492	SY	\$2.00	\$4,984.00
Erosion Control Subtotal				\$104,984.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,578	FT	\$300.00	\$473,400.00
UNDERDRAINS	3,156	FT	\$15.00	\$47,340.00
Drainage Subtotal				\$520,740.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	2,735	SY	\$100.00	\$273,511.11
FULL DEPTH PAVEMENT, CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$273,511.11

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.106	MILE	\$250,000.00	\$276,420.45
PAVEMENT MARKINGS - THERMO	0.195	MILE	\$14,000.00	\$2,725.76
PAVEMENT MARKINGS - RECESSED	0.911	MILE	\$30,000.00	\$27,329.55
Traffic Control - Signing and Pavement Marking Subtotal				\$306,475.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.911	MILE	\$170,000.00	\$154,867.42
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$454,867.42

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	5838	FT	\$100.00	\$583,800.00
Traffic Control - Traffic Signal Subtotal				\$583,800.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	25000	LUMP	\$1.00	\$25,000.00
MAINTENANCE OF TRAFFIC	50000	LUMP	\$1.00	\$50,000.00
MOBILIZATION	100000	LUMP	\$1.00	\$100,000.00
Miscellaneous Subtotal				\$175,000.00

Project Summary	Subtotal
Roadway	\$129,565
Erosion Control	\$104,984
Drainage	\$520,740
Pavement	\$273,511
Traffic Control - Signing and Pavement Marking	\$306,476
Traffic Signal and Surveillance	\$454,867
Roadway Lighting	\$583,800
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$175,000
Total	\$2,549,000

Contingency (30%)	\$765,000
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Subtotal	\$3,314,000
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Right-of-Way	\$0
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Engineering (18%)	\$597,000
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Construction Engineering (10%)	\$331,000
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Subtotal	\$4,242,000
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Inflation (30%)	\$1,272,600
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Project Total (2030 Dollars)	\$5,515,000
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Estimate completed by:



SEGMENT 6 CONCEPT D - OVERALL

SEGMENT 6 CONCEPT D - RANGE 1	
Construction Subtotal	\$9,701,000
Contingency (30%)	\$2,910,000
Construction Total	\$12,611,000
Right-of-Way	\$0
Engineering (18%)	\$2,270,000
Construction Engineering (10%)	\$1,261,000
Project Subtotal	\$16,142,000
Inflation (30%)	\$4,842,600
Subtotal	\$20,985,000
SEGMENT 6 CONCEPT D - RANGE 2	
Construction Subtotal	\$9,015,000
Contingency (30%)	\$2,705,000
Construction Total	\$11,720,000
Right-of-Way	\$0
Engineering (18%)	\$2,110,000
Construction Engineering (10%)	\$1,172,000
Project Subtotal	\$15,002,000
Inflation (30%)	\$4,500,600
Subtotal	\$19,503,000
SEGMENT 6 CONCEPT D - RANGE 3	
Construction Subtotal	\$6,157,000
Contingency (30%)	\$1,847,000
Construction Total	\$8,004,000
Right-of-Way	\$0
Engineering (18%)	\$1,441,000
Construction Engineering (10%)	\$800,000
Project Subtotal	\$10,245,000
Inflation (30%)	\$3,073,500
Subtotal	\$13,319,000
SEGMENT 6 CONCEPT D - RANGE 4	
Construction Subtotal	\$2,549,000
Contingency (30%)	\$765,000
Construction Total	\$3,314,000
Right-of-Way	\$0
Engineering (18%)	\$597,000
Construction Engineering (10%)	\$331,000
Project Subtotal	\$4,242,000
Inflation (30%)	\$1,272,600
Subtotal	\$5,515,000
SEGMENT 6 CONCEPT D - OVERALL	
SEGMENT 6 CONCEPT D - RANGE 1	\$20,985,000
SEGMENT 6 CONCEPT D - RANGE 2	\$19,503,000
SEGMENT 6 CONCEPT D - RANGE 3	\$13,319,000
SEGMENT 6 CONCEPT D - RANGE 4	\$5,515,000
Total - Segment 6 Concept D - Overall	\$59,322,000

Construction w/ Contingency w/out Inflation
\$45,631,000

Estimate completed by:



SEGMENT 6 CONCEPT D - RANGE 1
S of Pennsylvania Ave to N of Pennsylvania Ave

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,120	SY	\$20.00	\$42,402.22
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,538	CY	\$40.00	\$101,520.00
EMBANKMENT	71,012	CY	\$45.00	\$3,195,540.00
GUARDRAIL	900	FT	\$22.00	\$19,800.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	1,669	SY	\$100.00	\$166,911.11
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,526,173.33

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	170,000	LUMP	\$1.00	\$170,000.00
EROSION CONTROL PLAN	1	LUMP	\$40,000.00	\$40,000.00
BMPs	1	LUMP	\$150,000.00	\$150,000.00
SEEDING AND MULCHING	21,643	SY	\$2.00	\$43,285.97
Erosion Control Subtotal				\$403,285.97

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	3,930	FT	\$300.00	\$1,179,000.00
UNDERDRAINS	11,616	FT	\$15.00	\$174,240.00
Drainage Subtotal				\$1,353,240.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	1,753	SY	\$100.00	\$175,277.78
FULL DEPTH PAVEMENT, CONCRETE	3,699	SY	\$150.00	\$554,916.67
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$730,194.44

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.744	MILE	\$250,000.00	\$186,079.55
PAVEMENT MARKINGS - THERMO	0.388	MILE	\$14,000.00	\$5,435.61
PAVEMENT MARKINGS - RECESSED	0.356	MILE	\$30,000.00	\$10,681.82
Traffic Control - Signing and Pavement Marking Subtotal				\$202,196.97

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.356	MILE	\$170,000.00	\$60,530.30
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$60,530.30

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	1	EACH	\$300,000.00	\$300,000.00
CONTINUOUS ROADWAY LIGHTING	3930	FT	\$100.00	\$393,000.00
Traffic Control - Traffic Signal Subtotal				\$693,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	8,672	SF	\$220.00	\$1,907,840.00
Pavement Subtotal				\$1,907,840.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	85000	LUMP	\$1.00	\$85,000.00
MAINTENANCE OF TRAFFIC	340000	LUMP	\$1.00	\$340,000.00
MOBILIZATION	400000	LUMP	\$1.00	\$400,000.00
Miscellaneous Subtotal				\$825,000.00

Project Summary	Subtotal
Roadway	\$3,526,173
Erosion Control	\$403,286
Drainage	\$1,353,240
Pavement	\$730,194
Traffic Control - Signing and Pavement Marking	\$202,197
Traffic Signal and Surveillance	\$60,530
Roadway Lighting	\$693,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,907,840
Incidentals	\$825,000
Total	\$9,701,000

Contingency (30%)	\$2,910,000
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Subtotal	\$12,611,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,270,000
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Construction Engineering (10%)	\$1,261,000
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Subtotal	\$16,142,000
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Inflation (30%)	\$4,842,600
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Project Total (2030 Dollars)	\$20,985,000
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Estimate completed by:



SEGMENT 6 CONCEPT D - RANGE 2
S of Pinecrest Dr to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED		SY	\$20.00	\$0.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	13,120	CY	\$40.00	\$524,800.00
EMBANKMENT	21,810	CY	\$45.00	\$981,450.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER	5,200	FT	\$42.00	\$218,400.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,724,650.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	130,000	LUMP	\$1.00	\$130,000.00
EROSION CONTROL PLAN	1	LUMP	\$22,000.00	\$22,000.00
BMPs	1	LUMP	\$120,000.00	\$120,000.00
SEEDING AND MULCHING	11,323	SY	\$2.00	\$22,646.00
Erosion Control Subtotal				\$294,646.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	40	FT	\$600.00	\$24,000.00
STORM SEWER SYSTEM	5,979	FT	\$300.00	\$1,793,700.00
UNDERDRAINS	11,958	FT	\$15.00	\$179,370.00
Drainage Subtotal				\$1,997,070.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	22,749	SY	\$100.00	\$2,274,933.33
FULL DEPTH PAVEMENT, CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	2,745	SY	\$54.00	\$148,236.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$2,423,169.33

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.132	MILE	\$250,000.00	\$283,095.59
PAVEMENT MARKINGS - THERMO	0.333	MILE	\$14,000.00	\$4,661.36
PAVEMENT MARKINGS - RECESSED	0.799	MILE	\$30,000.00	\$23,982.95
Traffic Control - Signing and Pavement Marking Subtotal				\$311,740.91

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	0.799	MILE	\$170,000.00	\$135,903.41
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$915,903.41

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	5979	FT	\$100.00	\$597,900.00
Traffic Control - Traffic Signal Subtotal				\$597,900.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	70000	LUMP	\$1.00	\$70,000.00
MAINTENANCE OF TRAFFIC	280000	LUMP	\$1.00	\$280,000.00
MOBILIZATION	400000	LUMP	\$1.00	\$400,000.00
Miscellaneous Subtotal				\$750,000.00

Project Summary	Subtotal
Roadway	\$1,724,650
Erosion Control	\$294,646
Drainage	\$1,997,070
Pavement	\$2,423,169
Traffic Control - Signing and Pavement Marking	\$311,741
Traffic Signal and Surveillance	\$915,903
Roadway Lighting	\$597,900
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$750,000
Total	\$9,015,000

Contingency (30%)	\$2,705,000
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Subtotal	\$11,720,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,110,000
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Construction Engineering (10%)	\$1,172,000
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Subtotal	\$15,002,000
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Inflation (30%)	\$4,500,600
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Project Total (2030 Dollars)	\$19,503,000
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Estimate completed by:



SEGMENT 6 CONCEPT D - RANGE 3
N of Merrick Mkyw to N of Hills-Miller Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED		SY	\$20.00	\$0.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	7,123	CY	\$40.00	\$284,920.00
EMBANKMENT	18,832	CY	\$45.00	\$847,440.00
GUARDRAIL	2,000	FT	\$22.00	\$44,000.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER	3,500	FT	\$42.00	\$147,000.00
CONCRETE MEDIAN		SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,323,360.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	87,000	LUMP	\$1.00	\$87,000.00
EROSION CONTROL PLAN	1	LUMP	\$22,000.00	\$22,000.00
BMPs	1	LUMP	\$80,000.00	\$80,000.00
SEEDING AND MULCHING	11,010	SY	\$2.00	\$22,020.00
Erosion Control Subtotal				\$211,020.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT	80	FT	\$600.00	\$48,000.00
STORM SEWER SYSTEM	3,806	FT	\$300.00	\$1,141,800.00
UNDERDRAINS	14,680	FT	\$15.00	\$220,200.00
Drainage Subtotal				\$1,410,000.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	12,635	SY	\$100.00	\$1,263,500.00
FULL DEPTH PAVEMENT, CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	2,777	SY	\$54.00	\$149,952.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$1,413,452.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	0.721	MILE	\$250,000.00	\$180,208.33
PAVEMENT MARKINGS - THERMO	0.111	MILE	\$14,000.00	\$1,553.79
PAVEMENT MARKINGS - RECESSED	0.610	MILE	\$30,000.00	\$18,295.45
Traffic Control - Signing and Pavement Marking Subtotal				\$200,057.58

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	0.610	MILE	\$170,000.00	\$103,674.24
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$883,674.24

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	3806	FT	\$100.00	\$380,600.00
Traffic Control - Traffic Signal Subtotal				\$380,600.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	45000	LUMP	\$1.00	\$45,000.00
MAINTENANCE OF TRAFFIC	90000	LUMP	\$1.00	\$90,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$335,000.00

Project Summary	Subtotal
Roadway	\$1,323,360
Erosion Control	\$211,020
Drainage	\$1,410,000
Pavement	\$1,413,452
Traffic Control - Signing and Pavement Marking	\$200,058
Traffic Signal and Surveillance	\$883,674
Roadway Lighting	\$380,600
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$335,000
Total	\$6,157,000

Contingency (30%)	\$1,847,000
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Subtotal	\$8,004,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,441,000
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Construction Engineering (10%)	\$800,000
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Subtotal	\$10,245,000
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Inflation (30%)	\$3,073,500
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Project Total (2030 Dollars)	\$13,319,000
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Estimate completed by:



SEGMENT 6 CONCEPT D - RANGE 4
S of Coover Rd to N of Coover Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED		SY	\$20.00	\$0.00
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	997	CY	\$40.00	\$39,880.00
EMBANKMENT	1,993	CY	\$45.00	\$89,685.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$129,565.00

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	50,000	LUMP	\$1.00	\$50,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$45,000.00	\$45,000.00
SEEDING AND MULCHING	2,492	SY	\$2.00	\$4,984.00
Erosion Control Subtotal				\$104,984.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,578	FT	\$300.00	\$473,400.00
UNDERDRAINS	3,156	FT	\$15.00	\$47,340.00
Drainage Subtotal				\$520,740.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	2,735	SY	\$100.00	\$273,511.11
FULL DEPTH PAVEMENT, CONCRETE		SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING		SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$273,511.11

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.106	MILE	\$250,000.00	\$276,420.45
PAVEMENT MARKINGS - THERMO	0.195	MILE	\$14,000.00	\$2,725.76
PAVEMENT MARKINGS - RECESSED	0.911	MILE	\$30,000.00	\$27,329.55
Traffic Control - Signing and Pavement Marking Subtotal				\$306,475.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	1	EACH	\$300,000.00	\$300,000.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.911	MILE	\$170,000.00	\$154,867.42
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$454,867.42

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING		EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING		EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	5838	FT	\$100.00	\$583,800.00
Traffic Control - Traffic Signal Subtotal				\$583,800.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	25000	LUMP	\$1.00	\$25,000.00
MAINTENANCE OF TRAFFIC	50000	LUMP	\$1.00	\$50,000.00
MOBILIZATION	100000	LUMP	\$1.00	\$100,000.00
Miscellaneous Subtotal				\$175,000.00

Project Summary	Subtotal
Roadway	\$129,565
Erosion Control	\$104,984
Drainage	\$520,740
Pavement	\$273,511
Traffic Control - Signing and Pavement Marking	\$306,476
Traffic Signal and Surveillance	\$454,867
Roadway Lighting	\$583,800
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$175,000
Total	\$2,549,000

Contingency (30%)	\$765,000
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Subtotal	\$3,314,000
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Right-of-Way	\$0
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Engineering (18%)	\$597,000
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Construction Engineering (10%)	\$331,000
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Subtotal	\$4,242,000
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Inflation (30%)	\$1,272,600
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Project Total (2030 Dollars)	\$5,515,000
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Estimate completed by:



SEGMENT 7 CONCEPT A - OVERALL

SEGMENT 7 CONCEPT A - RANGE 1	
Construction Subtotal	\$4,756,000
Contingency (30%)	\$1,427,000
Construction Total	\$6,183,000
Right-of-Way	\$0
Engineering (18%)	\$1,113,000
Construction Engineering (10%)	\$618,000
Project Subtotal	\$7,914,000
Inflation (30%)	\$2,374,200
Subtotal	\$10,288,000
SEGMENT 7 CONCEPT A - RANGE 2	
Construction Subtotal	\$19,394,000
Contingency (30%)	\$5,818,000
Construction Total	\$25,212,000
Right-of-Way	\$0
Engineering (18%)	\$4,538,000
Construction Engineering (10%)	\$2,521,000
Project Subtotal	\$32,271,000
Inflation (30%)	\$9,681,300
Subtotal	\$41,952,000
SEGMENT 7 CONCEPT A - RANGE 3	
Construction Subtotal	\$31,194,000
Contingency (30%)	\$9,358,000
Construction Total	\$40,552,000
Right-of-Way	\$0
Engineering (18%)	\$7,299,000
Construction Engineering (10%)	\$4,055,000
Project Subtotal	\$51,906,000
Inflation (30%)	\$15,571,800
Subtotal	\$67,478,000
SEGMENT 7 CONCEPT A - OVERALL	
SEGMENT 7 CONCEPT A - RANGE 1	\$10,288,000
SEGMENT 7 CONCEPT A - RANGE 2	\$41,952,000
SEGMENT 7 CONCEPT A - RANGE 3	\$67,478,000
Total - Segment 7 Concept A - Overall	\$119,718,000

Construction w/ Contingency w/out Inflation
\$92,091,000

Estimate completed by:



PRELIMINARY

SEGMENT 7 CONCEPT A - RANGE 1
S of Main Rd to N of Troutman Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,142	SY	\$20.00	\$22,846.67
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	6,776	CY	\$40.00	\$271,040.00
EMBANKMENT	3,388	CY	\$45.00	\$152,460.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	1,917	SY	\$100.00	\$191,722.22
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$638,068.89

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	100,000	LUMP	\$1.00	\$100,000.00
EROSION CONTROL PLAN	1	LUMP	\$15,000.00	\$15,000.00
BMPs	1	LUMP	\$90,000.00	\$90,000.00
SEEDING AND MULCHING	8,471	SY	\$2.00	\$16,942.00
Erosion Control Subtotal				\$221,942.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,824	FT	\$300.00	\$847,050.00
UNDERDRAINS	11,294	FT	\$15.00	\$169,410.00
Drainage Subtotal				\$1,016,460.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	11,491	SY	\$100.00	\$1,149,122.22
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	14,700	SY	\$54.00	\$793,800.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$1,942,922.22

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.04	MILE	\$250,000.00	\$510,558.71
PAVEMENT MARKINGS - THERMO	0.00	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2.04	MILE	\$30,000.00	\$61,267.05
Traffic Control - Signing and Pavement Marking Subtotal				\$571,825.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL		EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT		EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
"WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	55000	LUMP	\$1.00	\$55,000.00
MAINTENANCE OF TRAFFIC	110000	LUMP	\$1.00	\$110,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$365,000.00

Project Summary	Subtotal
Roadway	\$638,069
Erosion Control	\$221,942
Drainage	\$1,016,460
Pavement	\$1,942,922
Traffic Control - Signing and Pavement Marking	\$571,826
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$365,000
Total	\$4,756,000

Contingency (30%)	\$1,427,000
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Subtotal	\$6,183,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,113,000
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Construction Engineering (10%)	\$618,000
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Subtotal	\$7,914,000
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Inflation (30%)	\$2,374,200
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Project Total (2030 Dollars)	\$10,288,000
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Estimate completed by:



SEGMENT 7 CONCEPT A - RANGE 2
N of Troutman Rd to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	10,337	SY	\$20.00	\$206,744.44
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	13,917	CY	\$40.00	\$556,664.00
EMBANKMENT	51,634	CY	\$45.00	\$2,323,521.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$3,086,929.44

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	395,000	LUMP	\$1.00	\$395,000.00
EROSION CONTROL PLAN	1	LUMP	\$45,000.00	\$45,000.00
BMPs	1	LUMP	\$350,000.00	\$350,000.00
SEEDING AND MULCHING	22,960	SY	\$2.00	\$45,919.56
Erosion Control Subtotal				\$835,919.56

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	4,199	FT	\$300.00	\$1,259,700.00
UNDERDRAINS	8,970	FT	\$15.00	\$134,550.00
Drainage Subtotal				\$1,394,250.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	30,784	SY	\$100.00	\$3,078,400.00
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	116,370	SY	\$54.00	\$6,283,992.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,362,392.00

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.31	MILE	\$250,000.00	\$577,130.68
PAVEMENT MARKINGS - THERMO	0.80	MILE	\$14,000.00	\$11,133.71
PAVEMENT MARKINGS - RECESSED	1.51	MILE	\$30,000.00	\$45,397.73
Traffic Control - Signing and Pavement Marking Subtotal				\$633,662.12

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	10,254	SF	\$220.00	\$2,255,880.00
Structures Subtotal				\$2,255,880.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	205000	LUMP	\$1.00	\$205,000.00
MAINTENANCE OF TRAFFIC	820000	LUMP	\$1.00	\$820,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,825,000.00

Project Summary	Subtotal
Roadway	\$3,086,929
Erosion Control	\$835,920
Drainage	\$1,394,250
Pavement	\$9,362,392
Traffic Control - Signing and Pavement Marking	\$633,662
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$2,255,880
Incidentals	\$1,825,000
Total	\$19,394,000

Contingency (30%)	\$5,818,000
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Subtotal	\$25,212,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,538,000
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Construction Engineering (10%)	\$2,521,000
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Subtotal	\$32,271,000
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Inflation (30%)	\$9,681,300
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Project Total (2030 Dollars)	\$41,952,000
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Estimate completed by:



SEGMENT 7 CONCEPT A - RANGE 3
N of Radnor Rd to N of Norton Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	7,440	SY	\$20.00	\$148,793.33
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	24,703	CY	\$40.00	\$988,120.00
EMBANKMENT	173,858	CY	\$45.00	\$7,823,610.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	2,290	SY	\$100.00	\$229,000.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$9,189,523.33

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	620,000	LUMP	\$1.00	\$620,000.00
EROSION CONTROL PLAN	1	LUMP	\$100,000.00	\$100,000.00
BMPs	1	LUMP	\$550,000.00	\$550,000.00
SEEDING AND MULCHING	57,238	SY	\$2.00	\$114,475.78
Erosion Control Subtotal				\$1,384,475.78

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	11,565	FT	\$300.00	\$3,469,500.00
UNDERDRAINS	28,896	FT	\$15.00	\$433,440.00
Drainage Subtotal				\$3,902,940.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	38,796	SY	\$100.00	\$3,879,600.00
FULL DEPTH PAVEMENT, CONCRETE	14,122	SY	\$150.00	\$2,118,333.33
PAVEMENT PLANING AND RESURFACING	65,297	SY	\$54.00	\$3,526,044.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$9,523,977.33

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.54	MILE	\$250,000.00	\$635,416.67
PAVEMENT MARKINGS - THERMO	0	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2.54	MILE	\$30,000.00	\$76,250.00
Traffic Control - Signing and Pavement Marking Subtotal				\$711,666.67

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION		MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$123,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	1	EACH	\$500,000.00	\$500,000.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$500,000.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	13,788	SF	\$220.00	\$3,033,360.00
Structures Subtotal				\$3,033,360.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	325,000	LUMP	\$1.00	\$325,000.00
MAINTENANCE OF TRAFFIC	1,300,000	LUMP	\$1.00	\$1,300,000.00
MOBILIZATION	1,200,000	LUMP	\$1.00	\$1,200,000.00
Miscellaneous Subtotal				\$2,825,000.00

Project Summary	Subtotal
Roadway	\$9,189,523
Erosion Control	\$1,384,476
Drainage	\$3,902,940
Pavement	\$9,523,977
Traffic Control - Signing and Pavement Marking	\$711,667
Traffic Signal and Surveillance	\$123,000
Roadway Lighting	\$500,000
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$3,033,360
Incidentals	\$2,825,000
Total	\$31,194,000

Contingency (30%)	\$9,358,000
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Subtotal	\$40,552,000
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Right-of-Way	\$0
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Engineering (18%)	\$7,299,000
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Construction Engineering (10%)	\$4,055,000
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Subtotal	\$51,906,000
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Inflation (30%)	\$15,571,800
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Project Total (2030 Dollars)	\$67,478,000
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SEGMENT 7 CONCEPT B - OVERALL

SEGMENT 7 CONCEPT B - RANGE 1	
Construction Subtotal	\$4,703,000
Contingency (30%)	\$1,411,000
Construction Total	\$6,114,000
Right-of-Way	\$0
Engineering (18%)	\$1,101,000
Construction Engineering (10%)	\$611,000
Project Subtotal	\$7,826,000
Inflation (30%)	\$2,347,800
Subtotal	\$10,174,000
SEGMENT 7 CONCEPT B - RANGE 2	
Construction Subtotal	\$10,499,000
Contingency (30%)	\$3,150,000
Construction Total	\$13,649,000
Right-of-Way	\$0
Engineering (18%)	\$2,457,000
Construction Engineering (10%)	\$1,365,000
Project Subtotal	\$17,471,000
Inflation (30%)	\$5,241,300
Subtotal	\$22,712,000
SEGMENT 7 CONCEPT B - RANGE 3	
Construction Subtotal	\$20,406,000
Contingency (30%)	\$6,122,000
Construction Total	\$26,528,000
Right-of-Way	\$0
Engineering (18%)	\$4,775,000
Construction Engineering (10%)	\$2,653,000
Project Subtotal	\$33,956,000
Inflation (30%)	\$10,186,800
Subtotal	\$44,143,000
SEGMENT 7 CONCEPT B - OVERALL	
SEGMENT 7 CONCEPT B - RANGE 1	\$10,174,000
SEGMENT 7 CONCEPT B - RANGE 2	\$22,712,000
SEGMENT 7 CONCEPT B - RANGE 3	\$44,143,000
Total - Segment 7 Concept B - Overall	\$77,029,000

Construction w/ Contingency w/out Inflation
\$59,253,000

Estimate completed by:



ms consultants, inc.
engineers, architects, planners

PRELIMINARY

SEGMENT 7 CONCEPT B - RANGE 1
S of Main Rd to N of Troutman Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	1,142	SY	\$20.00	\$22,846.67
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	6,112	CY	\$40.00	\$244,480.00
EMBANKMENT	3,056	CY	\$45.00	\$137,520.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	1,149	SY	\$100.00	\$114,866.67
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$519,713.33

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	100,000	LUMP	\$1.00	\$100,000.00
EROSION CONTROL PLAN	1	LUMP	\$15,000.00	\$15,000.00
BMPs	1	LUMP	\$90,000.00	\$90,000.00
SEEDING AND MULCHING	7,640	SY	\$2.00	\$15,280.00
Erosion Control Subtotal				\$220,280.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,547	FT	\$300.00	\$763,950.00
UNDERDRAINS	10,186	FT	\$15.00	\$152,790.00
Drainage Subtotal				\$916,740.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	13,153	SY	\$100.00	\$1,315,344.44
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	14,700	SY	\$54.00	\$793,800.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$2,109,144.44

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.04	MILE	\$250,000.00	\$510,558.71
PAVEMENT MARKINGS - THERMO	0.00	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2.04	MILE	\$30,000.00	\$61,267.05
Traffic Control - Signing and Pavement Marking Subtotal				\$571,825.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	55000	LUMP	\$1.00	\$55,000.00
MAINTENANCE OF TRAFFIC	110000	LUMP	\$1.00	\$110,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$365,000.00

Project Summary	Subtotal
Roadway	\$519,713
Erosion Control	\$220,280
Drainage	\$916,740
Pavement	\$2,109,144
Traffic Control - Signing and Pavement Marking	\$571,826
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$365,000
Total	\$4,703,000

Contingency (30%)	\$1,411,000
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Subtotal	\$6,114,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,101,000
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Construction Engineering (10%)	\$611,000
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Subtotal	\$7,826,000
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Inflation (30%)	\$2,347,800
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Project Total (2030 Dollars)	\$10,174,000
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Estimate completed by:



SEGMENT 7 CONCEPT B - RANGE 2
N of Troutman Rd to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	13,209	SY	\$20.00	\$264,177.78
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	4,566	CY	\$40.00	\$182,640.00
EMBANKMENT	2,283	CY	\$45.00	\$102,735.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	1,092	SY	\$100.00	\$109,200.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$658,752.78

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	95,000	LUMP	\$1.00	\$95,000.00
EROSION CONTROL PLAN	1	LUMP	\$10,000.00	\$10,000.00
BMPs	1	LUMP	\$85,000.00	\$85,000.00
SEEDING AND MULCHING	5,708	SY	\$2.00	\$11,415.00
Erosion Control Subtotal				\$201,415.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	3,805	FT	\$300.00	\$1,141,500.00
UNDERDRAINS	7,610	FT	\$15.00	\$114,150.00
Drainage Subtotal				\$1,255,650.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	10,181	SY	\$100.00	\$1,018,066.67
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	116,370	SY	\$54.00	\$6,283,980.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$7,302,046.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.51	MILE	\$250,000.00	\$378,314.39
PAVEMENT MARKINGS - THERMO	0.00	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.51	MILE	\$30,000.00	\$45,397.73
Traffic Control - Signing and Pavement Marking Subtotal				\$423,712.12

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	1.51	MILE	\$170,000.00	\$257,253.79
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$257,253.79

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	50000	LUMP	\$1.00	\$50,000.00
MAINTENANCE OF TRAFFIC	150000	LUMP	\$1.00	\$150,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$400,000.00

Project Summary	Subtotal
Roadway	\$658,753
Erosion Control	\$201,415
Drainage	\$1,255,650
Pavement	\$7,302,047
Traffic Control - Signing and Pavement Marking	\$423,712
Traffic Signal and Surveillance	\$257,254
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$400,000
Total	\$10,499,000

Contingency (30%)	\$3,150,000
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Subtotal	\$13,649,000
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Right-of-Way	\$0
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Engineering (18%)	\$2,457,000
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Construction Engineering (10%)	\$1,365,000
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Subtotal	\$17,471,000
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Inflation (30%)	\$5,241,300
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Project Total (2030 Dollars)	\$22,712,000
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Estimate completed by:



SEGMENT 7 CONCEPT B - RANGE 3
N of Radnor Rd to N of Norton Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	20,254	SY	\$20.00	\$405,075.56
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	17,433	CY	\$40.00	\$697,320.00
EMBANKMENT	88,985	CY	\$45.00	\$4,004,325.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$5,106,720.56

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	375,000	LUMP	\$1.00	\$375,000.00
EROSION CONTROL PLAN	1	LUMP	\$100,000.00	\$100,000.00
BMPs	1	LUMP	\$340,000.00	\$340,000.00
SEEDING AND MULCHING	49,707	SY	\$2.00	\$99,413.11
Erosion Control Subtotal				\$914,413.11

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	10,342	FT	\$300.00	\$3,102,600.00
UNDERDRAINS	20,684	FT	\$15.00	\$310,260.00
Drainage Subtotal				\$3,412,860.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	17,135	SY	\$100.00	\$1,713,533.33
FULL DEPTH PAVEMENT, CONCRETE	8,964	SY	\$150.00	\$1,344,633.33
PAVEMENT PLANING AND RESURFACING	65,297	SY	\$54.00	\$3,526,038.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$6,584,204.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	3.55	MILE	\$250,000.00	\$888,494.32
PAVEMENT MARKINGS - THERMO	1.01	MILE	\$14,000.00	\$14,129.92
PAVEMENT MARKINGS - RECESSED	2.54	MILE	\$30,000.00	\$76,340.91
Traffic Control - Signing and Pavement Marking Subtotal				\$978,965.15

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$123,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	6,753	SF	\$220.00	\$1,485,660.00
Structures Subtotal				\$1,485,660.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	200000	LUMP	\$1.00	\$200,000.00
MAINTENANCE OF TRAFFIC	800000	LUMP	\$1.00	\$800,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,800,000.00

Project Summary	Subtotal
Roadway	\$5,106,721
Erosion Control	\$914,413
Drainage	\$3,412,860
Pavement	\$6,584,205
Traffic Control - Signing and Pavement Marking	\$978,965
Traffic Signal and Surveillance	\$123,000
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,485,660
Incidentals	\$1,800,000
Total	\$20,406,000

Contingency (30%)	\$6,122,000
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Subtotal	\$26,528,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,775,000
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Construction Engineering (10%)	\$2,653,000
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Subtotal	\$33,956,000
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Inflation (30%)	\$10,186,800
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Project Total (2030 Dollars)	\$44,143,000
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SEGMENT 7 CONCEPT C - OVERALL

SEGMENT 7 CONCEPT C - RANGE 1	
Construction Subtotal	\$3,899,000
Contingency (30%)	\$1,170,000
Construction Total	\$5,069,000
Right-of-Way	\$0
Engineering (18%)	\$912,000
Construction Engineering (10%)	\$507,000
Project Subtotal	\$6,488,000
Inflation (30%)	\$1,946,400
Subtotal	\$8,434,000
SEGMENT 7 CONCEPT C - RANGE 2	
Construction Subtotal	\$3,839,000
Contingency (30%)	\$1,152,000
Construction Total	\$4,991,000
Right-of-Way	\$0
Engineering (18%)	\$898,000
Construction Engineering (10%)	\$499,000
Project Subtotal	\$6,388,000
Inflation (30%)	\$1,916,400
Subtotal	\$8,304,000
SEGMENT 7 CONCEPT C - RANGE 3	
Construction Subtotal	\$19,113,000
Contingency (30%)	\$5,734,000
Construction Total	\$24,847,000
Right-of-Way	\$0
Engineering (18%)	\$4,472,000
Construction Engineering (10%)	\$2,485,000
Project Subtotal	\$31,804,000
Inflation (30%)	\$9,541,200
Subtotal	\$41,345,000
SEGMENT 7 CONCEPT C - OVERALL	
SEGMENT 7 CONCEPT C - RANGE 1	\$8,434,000
SEGMENT 7 CONCEPT C - RANGE 2	\$8,304,000
SEGMENT 7 CONCEPT C - RANGE 3	\$41,345,000
Total - Segment 7 Concept C - Overall	\$58,083,000

Construction w/ Contingency w/out Inflation
\$44,680,000

Estimate completed by:



ms consultants, inc.
engineers, architects, planners

PRELIMINARY

SEGMENT 7 CONCEPT C - RANGE 1
S of Main Rd to N of Troutman Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,665	SY	\$20.00	\$53,302.22
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	4,484	CY	\$40.00	\$179,360.00
EMBANKMENT	2,242	CY	\$45.00	\$100,890.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	449	SY	\$100.00	\$44,933.33
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$378,485.56

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	90,000	LUMP	\$1.00	\$90,000.00
EROSION CONTROL PLAN	1	LUMP	\$11,000.00	\$11,000.00
BMPs	1	LUMP	\$80,000.00	\$80,000.00
SEEDING AND MULCHING	5,606	SY	\$2.00	\$11,212.00
Erosion Control Subtotal				\$192,212.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,869	FT	\$300.00	\$560,550.00
UNDERDRAINS	7,474	FT	\$15.00	\$112,110.00
Drainage Subtotal				\$672,660.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	10,918	SY	\$100.00	\$1,091,766.67
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	10,500	SY	\$54.00	\$567,000.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$1,658,766.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.04	MILE	\$250,000.00	\$510,558.71
PAVEMENT MARKINGS - THERMO	0.00	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2.04	MILE	\$30,000.00	\$61,267.05
Traffic Control - Signing and Pavement Marking Subtotal				\$571,825.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE		SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	45000	LUMP	\$1.00	\$45,000.00
MAINTENANCE OF TRAFFIC	180000	LUMP	\$1.00	\$180,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$425,000.00

Project Summary	Subtotal
Roadway	\$378,486
Erosion Control	\$192,212
Drainage	\$672,660
Pavement	\$1,658,767
Traffic Control - Signing and Pavement Marking	\$571,826
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$425,000
Total	\$3,899,000

Contingency (30%)	\$1,170,000
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Subtotal	\$5,069,000
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Right-of-Way	\$0
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Engineering (18%)	\$912,000
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Construction Engineering (10%)	\$507,000
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Subtotal	\$6,488,000
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Inflation (30%)	\$1,946,400
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Project Total (2030 Dollars)	\$8,434,000
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Estimate completed by:



SEGMENT 7 CONCEPT C - RANGE 2
N of Troutman Rd to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	44,762	SY	\$20.00	\$895,248.89
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,296	CY	\$40.00	\$91,824.00
EMBANKMENT	1,148	CY	\$45.00	\$51,651.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	171	SY	\$100.00	\$17,077.78
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$1,055,801.67

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	90,000	LUMP	\$1.00	\$90,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$80,000.00	\$80,000.00
SEEDING AND MULCHING	2,870	SY	\$2.00	\$5,739.00
Erosion Control Subtotal				\$180,739.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,913	FT	\$300.00	\$573,900.00
UNDERDRAINS	3,826	FT	\$15.00	\$57,390.00
Drainage Subtotal				\$631,290.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	10,978	SY	\$100.00	\$1,097,822.22
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	0	SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$1,097,822.22

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1.51	MILE	\$250,000.00	\$378,314.39
PAVEMENT MARKINGS - THERMO	0.00	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1.51	MILE	\$30,000.00	\$45,397.73
Traffic Control - Signing and Pavement Marking Subtotal				\$423,712.12

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	50000	LUMP	\$1.00	\$50,000.00
MAINTENANCE OF TRAFFIC	200000	LUMP	\$1.00	\$200,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$450,000.00

Project Summary	Subtotal
Roadway	\$1,055,802
Erosion Control	\$180,739
Drainage	\$631,290
Pavement	\$1,097,822
Traffic Control - Signing and Pavement Marking	\$423,712
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$450,000
Total	\$3,839,000

Contingency (30%)	\$1,152,000
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Subtotal	\$4,991,000
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Right-of-Way	\$0
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Engineering (18%)	\$898,000
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Construction Engineering (10%)	\$499,000
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Subtotal	\$6,388,000
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Inflation (30%)	\$1,916,400
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Project Total (2030 Dollars)	\$8,304,000
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Estimate completed by:



SEGMENT 7 CONCEPT C - RANGE 3
N of Radnor Rd to N of Norton Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	78,361	SY	\$20.00	\$1,567,224.44
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	17,433	CY	\$40.00	\$697,320.00
EMBANKMENT	88,985	CY	\$45.00	\$4,004,325.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	0	SY	\$100.00	\$0.00
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$6,268,869.44

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	410,000	LUMP	\$1.00	\$410,000.00
EROSION CONTROL PLAN	1	LUMP	\$50,000.00	\$50,000.00
BMPs	1	LUMP	\$360,000.00	\$360,000.00
SEEDING AND MULCHING	49,707	SY	\$2.00	\$99,413.11
Erosion Control Subtotal				\$919,413.11

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	10,342	FT	\$300.00	\$3,102,600.00
UNDERDRAINS	21,403	FT	\$15.00	\$321,045.00
Drainage Subtotal				\$3,423,645.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	24,024	SY	\$100.00	\$2,402,411.11
FULL DEPTH PAVEMENT, CONCRETE	8,964	SY	\$150.00	\$1,344,633.33
PAVEMENT PLANING AND RESURFACING	5,400	SY	\$54.00	\$291,600.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$4,038,644.44

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	3.55	MILE	\$250,000.00	\$888,494.32
PAVEMENT MARKINGS - THERMO	1.01	MILE	\$14,000.00	\$14,129.92
PAVEMENT MARKINGS - RECESSED	2.54	MILE	\$30,000.00	\$76,340.91
Traffic Control - Signing and Pavement Marking Subtotal				\$978,965.15

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$123,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	6,753	SF	\$220.00	\$1,485,660.00
Pavement Subtotal				\$1,485,660.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	215000	LUMP	\$1.00	\$215,000.00
MAINTENANCE OF TRAFFIC	860000	LUMP	\$1.00	\$860,000.00
MOBILIZATION	800000	LUMP	\$1.00	\$800,000.00
Miscellaneous Subtotal				\$1,875,000.00

Project Summary	Subtotal
Roadway	\$6,268,869
Erosion Control	\$919,413
Drainage	\$3,423,645
Pavement	\$4,038,644
Traffic Control - Signing and Pavement Marking	\$978,965
Traffic Signal and Surveillance	\$123,000
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$1,485,660
Incidentals	\$1,875,000
Total	\$19,113,000

Contingency (30%)	\$5,734,000
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Subtotal	\$24,847,000
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Right-of-Way	\$0
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Engineering (18%)	\$4,472,000
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Construction Engineering (10%)	\$2,485,000
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Subtotal	\$31,804,000
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Inflation (30%)	\$9,541,200
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Project Total (2030 Dollars)	\$41,345,000
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SEGMENT 7 CONCEPT D - OVERALL

SEGMENT 7 CONCEPT D - RANGE 1	
Construction Subtotal	\$3,853,000
Contingency (30%)	\$1,156,000
Construction Total	\$5,009,000
Right-of-Way	\$0
Engineering (18%)	\$902,000
Construction Engineering (10%)	\$501,000
Subtotal	\$6,412,000
Inflation (30%)	\$1,923,600
Subtotal	\$8,336,000
SEGMENT 7 CONCEPT D - RANGE 2	
Construction Subtotal	\$1,630,000
Contingency (30%)	\$489,000
Construction Total	\$2,119,000
Right-of-Way	\$0
Engineering (18%)	\$381,000
Construction Engineering (10%)	\$212,000
Subtotal	\$2,712,000
Inflation (30%)	\$813,600
Subtotal	\$3,526,000
SEGMENT 7 CONCEPT D - RANGE 2	
Construction Subtotal	\$5,735,000
Contingency (30%)	\$1,721,000
Construction Total	\$7,456,000
Right-of-Way	\$0
Engineering (18%)	\$1,342,000
Construction Engineering (10%)	\$746,000
Subtotal	\$9,544,000
Inflation (30%)	\$2,863,200
Subtotal	\$12,407,000
SEGMENT 7 CONCEPT D - OVERALL	
SEGMENT 7 CONCEPT D - RANGE 1	\$8,336,000
SEGMENT 7 CONCEPT D - RANGE 2	\$3,526,000
SEGMENT 7 CONCEPT D - RANGE 2	\$12,407,000
Total - Segment 7 Concept D - Overall	\$24,269,000

Construction w/ Contingency w/out Inflation
\$18,668,000

Estimate completed by:



PRELIMINARY

SEGMENT 7 CONCEPT D - RANGE 1
S of Main Rd to N of Troutman Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	2,665	SY	\$20.00	\$53,302.22
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	4,484	CY	\$40.00	\$179,360.00
EMBANKMENT	2,242	CY	\$45.00	\$100,890.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	449	SY	\$100.00	\$44,933.33
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$378,485.56

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	90,000	LUMP	\$1.00	\$90,000.00
EROSION CONTROL PLAN	1	LUMP	\$10,000.00	\$10,000.00
BMPs	1	LUMP	\$80,000.00	\$80,000.00
SEEDING AND MULCHING	5,606	SY	\$2.00	\$11,212.00
Erosion Control Subtotal				\$191,212.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,869	FT	\$300.00	\$560,550.00
UNDERDRAINS	7,474	FT	\$15.00	\$112,110.00
Drainage Subtotal				\$672,660.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	10,918	SY	\$100.00	\$1,091,766.67
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	10,500	SY	\$54.00	\$567,000.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$1,658,766.67

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2,042	MILE	\$250,000.00	\$510,558.71
PAVEMENT MARKINGS - THERMO	0.000	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	2,042	MILE	\$30,000.00	\$61,267.05
Traffic Control - Signing and Pavement Marking Subtotal				\$571,825.76

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.000	MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	45000	LUMP	\$1.00	\$45,000.00
MAINTENANCE OF TRAFFIC	135000	LUMP	\$1.00	\$135,000.00
MOBILIZATION	200000	LUMP	\$1.00	\$200,000.00
Miscellaneous Subtotal				\$380,000.00

Project Summary	Subtotal
Roadway	\$378,486
Erosion Control	\$191,212
Drainage	\$672,660
Pavement	\$1,658,767
Traffic Control - Signing and Pavement Marking	\$571,826
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$380,000
Total	\$3,853,000

Contingency (30%)	\$1,156,000
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Subtotal	\$5,009,000
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Right-of-Way	\$0
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Engineering (18%)	\$902,000
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Construction Engineering (10%)	\$501,000
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Subtotal	\$6,412,000
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Inflation (30%)	\$1,923,600
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Project Total (2030 Dollars)	\$8,336,000
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Estimate completed by:



SEGMENT 7 CONCEPT D - RANGE 2
N of Troutman Rd to N of Radnor Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	751	SY	\$20.00	\$15,013.33
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	1,952	CY	\$40.00	\$78,096.00
EMBANKMENT	976	CY	\$45.00	\$43,929.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	171	SY	\$100.00	\$17,077.78
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$154,116.11

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	50,000	LUMP	\$1.00	\$50,000.00
EROSION CONTROL PLAN	1	LUMP	\$5,000.00	\$5,000.00
BMPs	1	LUMP	\$40,000.00	\$40,000.00
SEEDING AND MULCHING	2,441	SY	\$2.00	\$4,881.00
Erosion Control Subtotal				\$99,881.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	1,627	FT	\$300.00	\$488,100.00
UNDERDRAINS	3,254	FT	\$15.00	\$48,810.00
Drainage Subtotal				\$536,910.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	2,401	SY	\$100.00	\$240,133.33
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	0	SY	\$54.00	\$0.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$240,133.33

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	1,513	MILE	\$250,000.00	\$378,314.39
PAVEMENT MARKINGS - THERMO	0.000	MILE	\$14,000.00	\$0.00
PAVEMENT MARKINGS - RECESSED	1,513	MILE	\$30,000.00	\$45,397.73
Traffic Control - Signing and Pavement Marking Subtotal				\$423,712.12

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	0	EACH	\$780,000.00	\$0.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV		EACH	\$123,000.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	25000	LUMP	\$1.00	\$25,000.00
MAINTENANCE OF TRAFFIC	50000	LUMP	\$1.00	\$50,000.00
MOBILIZATION	100000	LUMP	\$1.00	\$100,000.00
Miscellaneous Subtotal				\$175,000.00

Project Summary	Subtotal
Roadway	\$154,116
Erosion Control	\$99,881
Drainage	\$536,910
Pavement	\$240,133
Traffic Control - Signing and Pavement Marking	\$423,712
Traffic Signal and Surveillance	\$0
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$175,000
Total	\$1,630,000

Contingency (30%)	\$489,000
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Subtotal	\$2,119,000
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Right-of-Way	\$0
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Engineering (18%)	\$381,000
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Construction Engineering (10%)	\$212,000
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Subtotal	\$2,712,000
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Inflation (30%)	\$813,600
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Project Total (2030 Dollars)	\$3,526,000
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Estimate completed by:



SEGMENT 7 CONCEPT D - RANGE 3
N of Radnor Rd to N of Norton Rd

Roadway				
Description	Quantity	Unit	Unit Cost	Total
PAVEMENT REMOVED	3,131	SY	\$20.00	\$62,628.89
CULVERT REMOVED		FT	\$100.00	\$0.00
EXCAVATION	2,597	CY	\$40.00	\$103,872.00
EMBANKMENT	1,298	CY	\$45.00	\$58,428.00
GUARDRAIL		FT	\$22.00	\$0.00
MEDIAN BARRIER		FT	\$120.00	\$0.00
CURB AND GUTTER		FT	\$42.00	\$0.00
CONCRETE MEDIAN	85	SY	\$100.00	\$8,533.33
CONCRETE WALK		SF	\$13.00	\$0.00
Roadway Subtotal				\$233,462.22

Erosion Control				
Description	Quantity	Unit	Unit Cost	Total
EROSION CONTROL	140,000	LUMP	\$1.00	\$140,000.00
EROSION CONTROL PLAN	1	LUMP	\$7,000.00	\$7,000.00
BMPs	1	LUMP	\$120,000.00	\$120,000.00
SEEDING AND MULCHING	3,246	SY	\$2.00	\$6,492.00
Erosion Control Subtotal				\$273,492.00

Drainage				
Description	Quantity	Unit	Unit Cost	Total
CULVERT		FT	\$600.00	\$0.00
STORM SEWER SYSTEM	2,164	FT	\$300.00	\$649,200.00
UNDERDRAINS	4,328	FT	\$15.00	\$64,920.00
Drainage Subtotal				\$714,120.00

Pavement				
Description	Quantity	Unit	Unit Cost	Total
FULL DEPTH PAVEMENT, ASPHALT	7,030	SY	\$100.00	\$703,044.44
FULL DEPTH PAVEMENT, CONCRETE	0	SY	\$150.00	\$0.00
PAVEMENT PLANING AND RESURFACING	27,150	SY	\$54.00	\$1,466,094.00
SHARED USE PATH		SY	\$42.00	\$0.00
Pavement Subtotal				\$2,169,138.44

Traffic Control - Signing and Pavement Marking				
Description	Quantity	Unit	Unit Cost	Total
SIGNING	2.66	MILE	\$250,000.00	\$664,346.59
PAVEMENT MARKINGS - THERMO	0.11	MILE	\$14,000.00	\$1,577.65
PAVEMENT MARKINGS - RECESSED	2.54	MILE	\$30,000.00	\$76,340.91
Traffic Control - Signing and Pavement Marking Subtotal				\$742,265.15

Traffic Signal and Surveillance				
Description	Quantity	Unit	Unit Cost	Total
STANDARD TRAFFIC SIGNAL	0	EACH	\$300,000.00	\$0.00
TRAFFIC SIGNAL FOR R-CUT	1	EACH	\$780,000.00	\$780,000.00
FIBER OPTIC COMMUNICATION	0.00	MILE	\$170,000.00	\$0.00
CCTV	1	EACH	\$123,000.00	\$123,000.00
Traffic Control - Traffic Signal Subtotal				\$903,000.00

Roadway Lighting				
Description	Quantity	Unit	Unit Cost	Total
FULL INTERCHANGE LIGHTING	0	EACH	\$500,000.00	\$0.00
PARTIAL INTERCHANGE LIGHTING	0	EACH	\$300,000.00	\$0.00
CONTINUOUS ROADWAY LIGHTING	0	FT	\$100.00	\$0.00
Traffic Control - Traffic Signal Subtotal				\$0.00

Utility Relocations - Gas, Electric, Water, Wastewater				
Description	Quantity	Unit	Unit Cost	Total
HIGH PRESSURE GAS LINE		FT		\$0.00
WATERLINE 36" OR LARGER		FT		\$0.00
HIGH VOLTAGE TOWER		EACH		\$0.00
SANITARY LINE 36" OR LARGER		FT		\$0.00
DAM MODIFICATION		LUMP		\$0.00
Water/Wastewater Subtotal				\$0.00

Structures				
Description	Quantity	Unit	Unit Cost	Total
RETAINING WALL		SF	\$90.00	\$0.00
BRIDGE	0	SF	\$220.00	\$0.00
Pavement Subtotal				\$0.00

Incidentals				
Description	Quantity	Unit	Unit Cost	Total
CONSTRUCTION LAYOUT STAKES	75000	LUMP	\$1.00	\$75,000.00
MAINTENANCE OF TRAFFIC	225000	LUMP	\$1.00	\$225,000.00
MOBILIZATION	400000	LUMP	\$1.00	\$400,000.00
Miscellaneous Subtotal				\$700,000.00

Project Summary	Subtotal
Roadway	\$233,462
Erosion Control	\$273,492
Drainage	\$714,120
Pavement	\$2,169,138
Traffic Control - Signing and Pavement Marking	\$742,265
Traffic Signal and Surveillance	\$903,000
Roadway Lighting	\$0
Utility Relocations - Gas, Electric, Water, Wastewater	\$0
Structures	\$0
Incidentals	\$700,000
Total	\$5,735,000

Contingency (30%)	\$1,721,000
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Subtotal	\$7,456,000
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Right-of-Way	\$0
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Engineering (18%)	\$1,342,000
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Construction Engineering (10%)	\$746,000
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Subtotal	\$9,544,000
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Inflation (30%)	\$2,863,200
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Project Total (2030 Dollars)	\$12,407,000
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Estimate completed by:
 **ms consultants, inc**
 engineers, architects, planners
 rms consultants, inc
 engineers, architects, planners

Segment 1S - Right-of-Way Estimating

General Parcel Data				Factors/Multipliers				
General	# of Parcel Impacted	45	18	Parcel Classification	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier	
	Total Acres of Parcels	319.69	267.81		Agricultural	50	3.0	1.0
	Acres Impacted	17.47	10.58		Residential	50	3.0	1.3
Parcel Classification	Agricultural Acres	0.00	0.00	Commercial	5	3.0	1.5	
	Residential Acres	6.87	3.52	Exempt	50	3.0	1.0	
	Commercial Acres	193.51	144.98					
	Exempt Acres	119.31	119.31					
	Total Acres	319.69	267.81					
Impacted Acres	Impacted Agricultural Acres	0.00	0.00					
	Impacted Residential Acres	1.67	1.37					
	Impacted Commercial Acres	9.24	4.11					
	Impacted Exempt Acres	6.56	5.10					
	Total Acres	17.47	10.58					

Total ROW Acreage and Cost Breakdown					
Parcel Counts (#)	Parcels Displaced		Parcels Impacted		
	Concept A	Concept B	Concept A	Concept B	
# of Agricultural Parcels	0	0	0	0	
# of Residential Parcels	3	3	5	2	
# of Commercial Parcels	24	4	12	3	
# of Exempt Parcels	1	1	5	5	
Total # Parcels	28	8	22	10	
Parcels impacted by Concept		Concept A: 50	Concept B: 18		
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -
	Market Price of Residential Parcels	\$ 1,239,100	\$ 1,239,100	\$ 123,519	\$ 33,368
	Market Price of Commercial Parcels	\$ 58,838,100	\$ 1,343,800	\$ 808,121	\$ 71,961
	Market Price of Exempt Parcels	\$ 1,500	\$ -	\$ 631,835	\$ 484,745
	Total Market Price	\$ 60,078,700	\$ 2,582,900	\$ 1,563,475	\$ 590,074
Market Price by Concept		Concept A: \$ 61,642,175.17	Concept B: \$ 3,172,973.99		
Factored Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -
	Market Price w/ multiplier of Residential Parcels	\$ 3,717,300	\$ 3,717,300	\$ 160,575	\$ 43,378
	Market Price w/ multiplier of Commercial Parcels	\$ 176,514,300	\$ 4,031,400	\$ 1,212,182	\$ 107,941
	Market Price w/ multiplier of Exempt Parcels	\$ 4,500	\$ -	\$ 631,835	\$ 484,745
	Total Market Price w/ multipliers	\$ 180,236,100	\$ 7,748,700	\$ 2,004,592	\$ 636,065
Total Cost of ROW by Concept		Concept A: \$ 182,240,692	Concept B: \$ 8,384,765		
Parcel Acreage (acres)	Acreage of Agricultural Parcels	0.00	0.00	0.00	0.00
	Acreage of Residential Parcels	1.29	1.29	0.39	0.09
	Acreage of Commercial Parcels	38.49	9.54	1.79	1.45
	Acreage of Exempt Parcels	0.08	0.08	6.48	5.04
	Total Acres	39.86	10.91	8.67	6.58
Total Taken Acres by Concept		Concept A: 48.53	Concept B: 17.49		

Segment 1N - Right-of-Way Estimating

General Parcel Data					
	Concept A	Concept B	Concept C	Concept D	
General	# of Parcel Impacted	100	30	31	27
	Total Acres of Parcels	1497.91	1459.88	1509.22	1417.33
	Acres Impacted	77.09	51.55	41.75	32.42
Parcel Classification	Agricultural Acres	107.51	107.51	107.51	51.84
	Residential Acres	9.79	7.46	26.27	26.27
	Commercial Acres	882.89	850.85	881.39	845.17
	Exempt Acres	497.72	494.06	494.06	494.06
	Total Acres	1497.91	1459.88	1509.22	1417.33
Impacted Acres	Impacted Agricultural Acres	9.43	9.43	5.84	2.37
	Impacted Residential Acres	3.91	1.72	1.68	0.94
	Impacted Commercial Acres	54.92	33.26	26.29	21.63
	Impacted Exempt Acres	8.83	7.13	7.95	7.47
	Total Acres	77.09	51.55	41.75	32.42

Editable Factors/Multipliers			
Parcel Classification	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier
Agricultural	50	3.0	1.0
Residential	50	3.0	1.3
Commercial	25	3.0	1.5
Exempt	50	3.0	1.0

Total ROW Acreage and Cost Breakdown								
Parcel Counts (#)	Parcels Displaced (greatly impacted parcels - full parcel purchased)				Parcels Impacted (minimally impacted parcels - full parcel NOT purchased)			
	Concept A	Concept B	Concept C	Concept D	Concept A	Concept B	Concept C	Concept D
	# of Agricultural Parcels	0	0	0	0	3	3	3
# of Residential Parcels	24	3	1	1	11	4	5	5
# of Commercial Parcels	25	13	11	8	30	36	40	39
# of Exempt Parcels	0	0	0	0	7	5	5	5
Total # Parcels	49	16	12	9	51	48	53	51
Parcels impacted by Concept	Concept A: 100	Concept B: 64	Concept C: 65	Concept D: 60				
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ 575,268	\$ 575,268	\$ 339,424	\$ 176,467
	Market Price of Residential Parcels	\$ 4,678,500	\$ 471,900	\$ 2,800	\$ 155,326	\$ 12,575	\$ 56,148	\$ 17,835
	Market Price of Commercial Parcels	\$ 68,208,300	\$ 25,037,800	\$ 19,970,000	\$ 12,479,700	\$ 9,265,126	\$ 12,049,114	\$ 10,420,269
Market Price of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price	\$ 72,886,800	\$ 25,509,700	\$ 19,972,800	\$ 12,482,500	\$ 9,995,721	\$ 12,636,957	\$ 10,815,841	\$ 9,461,697
Market Price by Concept	Concept A: \$ 82,882,520.54	Concept B: \$ 38,146,657.06	Concept C: \$ 30,788,640.86	Concept D: \$ 21,944,196.80				
Factored Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ 575,268	\$ 575,268	\$ 339,424	\$ 176,467
	Market Price w/ multiplier of Residential Parcels	\$ 14,035,500	\$ 1,415,700	\$ 8,400	\$ 201,924	\$ 16,347	\$ 72,992	\$ 23,186
	Market Price w/ multiplier of Commercial Parcels	\$ 204,624,900	\$ 75,113,400	\$ 59,910,000	\$ 37,439,100	\$ 13,897,690	\$ 18,073,672	\$ 15,630,404
Market Price w/ multiplier of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price w/ multipliers	\$ 218,660,400	\$ 76,529,100	\$ 59,918,400	\$ 37,447,500	\$ 14,674,882	\$ 18,665,287	\$ 16,042,820	\$ 14,100,745
Total Cost of ROW by Concept	Concept A: \$ 233,335,282	Concept B: \$ 95,194,387	Concept C: \$ 75,961,220	Concept D: \$ 51,548,245				
Parcel Acreage (acres)	Acreage of Agricultural Parcels	0.00	0.00	0.00	9.43	9.43	5.84	2.37
	Acreage of Residential Parcels	3.82	0.83	0.26	1.00	0.93	1.42	0.69
	Acreage of Commercial Parcels	67.93	39.80	23.26	16.86	13.86	15.84	16.55
	Acreage of Exempt Parcels	0.00	0.00	0.00	0.00	8.83	7.13	7.95
	Total Acres	71.74	40.63	23.52	17.12	33.13	33.33	33.61
Total Taken Acres by Concept	Concept A: 104.87	Concept B: 73.97	Concept C: 57.13	Concept D: 44.20				

Segment 2 - Right-of-Way Estimating

General Parcel Data					
	Concept A	Concept B	Concept C	Concept D	
General	# of Parcel Impacted	128	140	127	104
	Total Acres of Parcels	951.00	984.42	1097.38	928.04
	Acres Impacted	82.78	81.50	63.79	53.34
Parcel Classification	Agricultural Acres	11.39	0.00	119.02	51.84
	Residential Acres	69.25	73.25	75.57	46.51
	Commercial Acres	870.36	911.18	902.78	829.69
	Exempt Acres	0.00	0.00	0.00	0.00
	Total Acres	951.00	984.42	1097.38	928.04
Impacted Acres	Impacted Agricultural Acres	2.24	0.00	1.40	1.43
	Impacted Residential Acres	13.75	18.95	16.37	7.14
	Impacted Commercial Acres	66.78	62.55	46.01	44.76
	Impacted Exempt Acres	0.00	0.00	0.00	0.00
	Total Acres	82.78	81.50	63.79	53.34

Factors/Multipliers			
Parcel Classification	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier
Agricultural	50	3.0	1.0
Residential	50	3.0	1.3
Commercial	35	3.0	1.5
Exempt	50	3.0	1.0

Total ROW Acreage and Cost Breakdown									
		Parcels Displaced (greatly impacted parcels - full parcel purchased)				Parcels Impacted (minimally impacted parcels - full parcel NOT purchased)			
		Concept A	Concept B	Concept C	Concept D	Concept A	Concept B	Concept C	Concept D
Parcel Counts (#)	# of Agricultural Parcels	0	0	0	0	2	0	0	2
	# of Residential Parcels	2	6	6	1	24	18	19	14
	# of Commercial Parcels	18	14	6	6	82	102	94	81
	# of Exempt Parcels	0	0	0	0	0	0	0	0
	Total # Parcels	20	20	12	7	108	120	115	97
Parcels impacted by Concept		Concept A: 128	Concept B: 140	Concept C: 127	Concept D: 104				
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ 97,009	\$ -	\$ 60,262	\$ 107,065
	Market Price of Residential Parcels	\$ 404,300	\$ 1,115,500	\$ 1,115,500	\$ 24,000	\$ 1,143,691	\$ 1,137,018	\$ 1,015,936	\$ 569,260
	Market Price of Commercial Parcels	\$ 23,696,000	\$ 18,233,100	\$ 5,919,400	\$ 6,299,500	\$ 20,547,777	\$ 23,164,300	\$ 22,029,837	\$ 21,309,825
	Market Price of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Market Price	\$ 24,100,300	\$ 19,348,600	\$ 7,034,900	\$ 6,323,500	\$ 21,788,477	\$ 24,301,317	\$ 23,106,034	\$ 21,986,151
Market Price by Concept		Concept A: \$ 45,858,777.10	Concept B: \$ 43,649,917.45	Concept C: \$ 30,140,934.28	Concept D: \$ 28,309,650.59				
Factored Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ 97,009	\$ -	\$ 60,262	\$ 107,065
	Market Price w/ multiplier of Residential Parcels	\$ 1,212,900	\$ 3,346,500	\$ 3,346,500	\$ 72,000	\$ 1,486,799	\$ 1,478,123	\$ 1,320,716	\$ 740,038
	Market Price w/ multiplier of Commercial Parcels	\$ 71,088,000	\$ 54,699,300	\$ 17,758,200	\$ 18,898,500	\$ 30,821,666	\$ 34,746,450	\$ 33,044,755	\$ 31,964,738
	Market Price w/ multiplier of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Market Price w/ multipliers	\$ 72,300,900	\$ 58,045,800	\$ 21,104,700	\$ 18,970,500	\$ 32,405,473	\$ 36,224,573	\$ 34,425,733	\$ 32,811,841
Total Cost of ROW by Concept		Concept A: \$ 104,706,373	Concept B: \$ 94,270,373	Concept C: \$ 55,530,433	Concept D: \$ 51,782,341				
Parcel Acreage (Acres)	Acreege of Agricultural Parcels	0.00	0.00	0.00	0.00	2.24	0.00	1.40	1.43
	Acreege of Residential Parcels	4.60	11.41	11.41	1.00	10.29	8.19	5.61	6.56
	Acreege of Commercial Parcels	39.46	32.31	19.91	10.62	42.72	44.41	34.85	40.47
	Acreege of Exempt Parcels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Acres	44.06	43.72	31.32	11.62	55.25	52.60	41.86	48.46
Total Taken Acres by Concept		Concept A: 99.31	Concept B: 96.32	Concept C: 73.18	Concept D: 60.08				

Segment 3 - Right-of-Way Estimating

General Parcel Data					
		Concept A	Concept B	Concept C	Concept D
General	# of Parcel Impacted	110	91	86	80
	Total Acres of Parcels	519.50	448.62	492.09	401.86
	Acres Impacted	55.21	39.64	35.85	23.59
Parcel Classification	Agricultural Acres	0.00	0.00	0.00	0.00
	Residential Acres	182.40	133.98	132.07	124.66
	Commercial Acres	337.10	314.65	360.01	277.20
	Exempt Acres	0.00	0.00	0.00	0.00
	Total Acres	519.50	448.62	492.09	401.86
Impacted Acres	Impacted Agricultural Acres	0.00	0.00	0.00	0.00
	Impacted Residential Acres	8.68	2.16	1.74	2.40
	Impacted Commercial Acres	46.53	37.47	34.11	21.18
	Impacted Exempt Acres	0.00	0.00	0.00	0.00
	Total Acres	55.21	39.64	35.85	23.59

Factors/Multipliers			
Parcel Classification	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier
Agricultural	50	3.0	1.0
Residential	50	3.0	1.3
Commercial	25	3.0	1.5
Exempt	50	3.0	1.0

Total ROW Acreage and Cost Breakdown									
		Parcels Displaced (greatly impacted parcels - full parcel purchased)				Parcels Impacted (minimally impacted parcels - full parcel NOT purchased)			
		Concept A	Concept B	Concept C	Concept D	Concept A	Concept B	Concept C	Concept D
Parcel Counts (#)	# of Agricultural Parcels	0	0	0	0	0	0	0	0
	# of Residential Parcels	0	0	0	0	20	10	10	6
	# of Commercial Parcels	5	5	2	3	85	76	74	71
	# of Exempt Parcels	0	0	0	0	0	0	0	0
	Total # Parcels	5	5	2	3	105	86	84	77
Parcels impacted by Concept		Concept A: 110	Concept B: 91	Concept C: 86	Concept D: 80				
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Market Price of Residential Parcels	\$ -	\$ -	\$ -	\$ -	\$ 545,894	\$ 181,957	\$ 141,285	\$ 109,357
	Market Price of Commercial Parcels	\$ 2,606,400	\$ 1,469,100	\$ 423,500	\$ 705,600	\$ 11,087,373	\$ 5,614,532	\$ 9,042,190	\$ 7,648,623
	Market Price of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Market Price	\$ 2,606,400	\$ 1,469,100	\$ 423,500	\$ 705,600	\$ 11,633,267	\$ 5,796,489	\$ 9,183,475	\$ 7,757,980
Market Price by Concept		Concept A: \$ 14,239,667.24	Concept B: \$ 7,265,588.94	Concept C: \$ 9,606,974.97	Concept D: \$ 8,463,579.93				
Factored Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Market Price w/ multiplier of Residential Parcels	\$ -	\$ -	\$ -	\$ -	\$ 709,662	\$ 236,544	\$ 183,671	\$ 142,164
	Market Price w/ multiplier of Commercial Parcels	\$ 7,819,200	\$ 4,407,300	\$ 1,270,500	\$ 2,116,800	\$ 16,631,060	\$ 8,424,798	\$ 13,563,285	\$ 11,472,934
	Market Price w/ multiplier of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Market Price w/ multipliers	\$ 7,819,200	\$ 4,407,300	\$ 1,270,500	\$ 2,116,800	\$ 17,340,722	\$ 8,658,342	\$ 13,746,955	\$ 11,615,098
Total Cost of ROW by Concept		Concept A: \$ 25,159,922	Concept B: \$ 13,065,642	Concept C: \$ 15,017,455	Concept D: \$ 13,731,898				
Parcel Acreage (Acres)	Acreage of Agricultural Parcels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Acreage of Residential Parcels	0.00	0.00	0.00	0.00	8.68	2.16	1.74	2.40
	Acreage of Commercial Parcels	17.71	25.72	10.92	3.37	35.05	23.12	24.41	20.14
	Acreage of Exempt Parcels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Acres	17.71	25.72	10.92	3.37	43.72	25.28	26.15	22.54
Total Taken Acres by Concept		Concept A: 61.43	Concept B: 51.00	Concept C: 37.07	Concept D: 25.91				

Segment 4 - Right-of-Way Estimating

General Parcel Data					Factors/Multipliers				
		Concept A	Concept B	Concept C	Concept D	Parcel Classification	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier
General	# of Parcel Impacted	97	92	95	82	Agricultural	50	3.0	1.0
	Total Acres of Parcels	1018.83	1099.54	1071.41	1034.02	Residential	50	3.0	1.3
	Acres Impacted	111.31	84.95	75.84	58.65	Commercial	25	3.0	1.5
Parcel Classification	Agricultural Acres	161.69	161.69	161.85	161.69	Exempt	50	3.0	1.0
	Residential Acres	231.92	312.95	283.42	249.52				
	Commercial Acres	620.55	620.23	621.45	618.13				
	Exempt Acres	4.68	4.68	4.68	4.68				
	Total Acres	1018.83	1099.54	1071.41	1034.02				
Impacted Acres	Impacted Agricultural Acres	10.20	7.81	9.57	7.78				
	Impacted Residential Acres	23.82	16.09	15.58	11.25				
	Impacted Commercial Acres	74.52	58.16	47.57	36.62				
	Impacted Exempt Acres	2.78	2.88	3.11	3.01				
	Total Acres	111.31	84.95	75.84	58.65				

Total ROW Acreage and Cost Breakdown									
Parcel Counts (#)		Parcels Displaced (greatly impacted parcels - full parcel purchased)				Parcels Impacted (minimally impacted parcels - full parcel NOT purchased)			
		Concept A	Concept B	Concept C	Concept D	Concept A	Concept B	Concept C	Concept D
# of Agricultural Parcels		0	0	1	0	4	4	4	4
# of Residential Parcels		5	3	1	1	38	35	38	26
# of Commercial Parcels		19	17	14	13	29	31	35	36
# of Exempt Parcels		2	2	2	2	0	0	0	0
Total # Parcels		26	22	18	16	71	70	77	66
Parcels Impacted by Concept		Concept A: 97		Concept B: 92		Concept C: 95		Concept D: 82	
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ 698,395	\$ 575,451	\$ 627,709	\$ 553,648
	Market Price of Residential Parcels	\$ 432,000	\$ 338,300	\$ 157,600	\$ 157,600	\$ 1,321,226	\$ 929,203	\$ 1,013,412	\$ 765,647
	Market Price of Commercial Parcels	\$ 11,247,500	\$ 8,890,100	\$ 5,266,100	\$ 3,437,400	\$ 7,104,242	\$ 7,054,231	\$ 7,004,741	\$ 6,057,819
	Market Price of Exempt Parcels	\$ 30,200	\$ 30,200	\$ 30,200	\$ 30,200	\$ -	\$ -	\$ -	\$ -
	Total Market Price	\$ 11,709,700	\$ 9,258,600	\$ 5,453,900	\$ 3,625,200	\$ 9,123,863	\$ 8,558,885	\$ 8,645,862	\$ 7,377,114
Market Price by Concept		Concept A: \$ 20,833,563.30		Concept B: \$ 17,817,484.62		Concept C: \$ 14,099,762.05		Concept D: \$ 11,002,314.45	
Factor of Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ 698,395	\$ 575,451	\$ 627,709	\$ 553,648
	Market Price w/ multiplier of Residential Parcels	\$ 1,296,000	\$ 1,014,900	\$ 472,800	\$ 472,800	\$ 1,717,594	\$ 1,207,964	\$ 1,317,435	\$ 995,342
	Market Price w/ multiplier of Commercial Parcels	\$ 33,742,500	\$ 26,670,300	\$ 15,798,300	\$ 10,312,200	\$ 10,656,363	\$ 10,581,346	\$ 10,507,112	\$ 9,086,728
	Market Price w/ multiplier of Exempt Parcels	\$ 90,600	\$ 90,600	\$ 90,600	\$ 90,600	\$ -	\$ -	\$ -	\$ -
	Total Market Price w/ multipliers	\$ 35,129,100	\$ 27,775,800	\$ 16,361,700	\$ 10,875,600	\$ 13,072,352	\$ 12,364,761	\$ 12,452,256	\$ 10,635,718
Total Cost of ROW by Concept		Concept A: \$ 48,201,452		Concept B: \$ 40,140,561		Concept C: \$ 28,813,956		Concept D: \$ 21,511,318	
Parcel Acreage (acres)	Acreage of Agricultural Parcels	0.00	0.00	0.17	0.00	10.20	7.81	9.40	7.78
	Acreage of Residential Parcels	4.88	6.52	1.21	1.21	19.88	12.40	14.74	10.50
	Acreage of Commercial Parcels	85.68	34.70	28.28	21.05	36.39	42.92	35.66	28.40
	Acreage of Exempt Parcels	4.68	4.68	4.68	4.68	0.00	0.00	0.00	0.00
	Total Acres	95.24	45.90	34.34	26.94	66.47	63.13	59.81	46.67
Total Taken Acres by Concept		Concept A: 161.70		Concept B: 109.03		Concept C: 94.15		Concept D: 73.62	

Segment 5 - Right-of-Way Estimating

General Parcel Data						
		Concept A	Concept B	Concept C	Concept D	Concept E
General	# of Parcel Impacted	155	128	114	68	64
	Total Acres of Parcels	658.28	540.44	568.51	418.80	397.66
	Acres Impacted	65.60	46.90	50.81	28.91	22.89
Parcel Classification	Agricultural Acres	11.32	11.32	11.32	11.32	11.32
	Residential Acres	184.64	152.56	130.79	82.25	85.49
	Commercial Acres	461.12	376.55	425.20	325.22	300.85
	Exempt Acres	1.20	0.00	1.20	0.00	0.00
	Total Acres	658.28	540.44	568.51	418.80	397.66
Impacted Acres	Impacted Agricultural Acres	2.31	1.99	2.22	2.26	2.12
	Impacted Residential Acres	19.37	13.94	13.81	6.22	1.83
	Impacted Commercial Acres	43.33	30.98	34.27	20.43	18.93
	Impacted Exempt Acres	0.60	0.00	0.51	0.00	0.00
	Total Acres	65.60	46.90	50.81	28.91	22.89

Factors/Multipliers			
Parcel Classification	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier
Agricultural	50	3.0	1.0
Residential	50	3.0	1.3
Commercial	30	3.0	1.5
Exempt	50	3.0	1.0

Total ROW Acreage and Cost Breakdown											
		Parcel's Displaced (greatly impacted parcels - full parcel purchased)					Parcel's Impacted parcels - full parcel NOT purchased				
		Concept A	Concept B	Concept C	Concept D	Concept E	Concept A	Concept B	Concept C	Concept D	Concept E
Parcel Counts	# of Agricultural Parcels	0	0	0	0	0	1	1	1	1	1
	# of Residential Parcels	7	7	7	7	1	73	54	39	14	16
	# of Commercial Parcels	23	19	18	9	6	50	47	46	37	40
	# of Exempt Parcels	0	0	0	0	0	1	0	1	0	0
	Total # Parcels	30	26	27	16	7	125	102	87	52	57
Parcels Impacted by Concept		Concept A: 155	Concept B: 128	Concept C: 114	Concept D: 68	Concept E: 64					
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,649	\$ 47,965	\$ 53,537	\$ 54,466	\$ 51,207
	Market Price of Residential Parcels	\$ 834,600	\$ 686,900	\$ 851,800	\$ 862,400	\$ 124,100	\$ 4,020,868	\$ 1,978,437	\$ 1,036,010	\$ 178,405	\$ 121,267
	Market Price of Commercial Parcels	\$ 15,727,700	\$ 11,808,100	\$ 8,296,500	\$ 2,051,800	\$ 1,366,200	\$ 9,465,576	\$ 9,458,486	\$ 11,184,945	\$ 8,599,823	\$ 8,843,567
	Market Price of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price		\$ 16,562,300	\$ 12,495,000	\$ 9,148,300	\$ 2,914,200	\$ 1,490,300	\$ 13,542,093	\$ 11,484,888	\$ 12,274,492	\$ 8,832,693	\$ 9,016,041
Market Price by Concept		Concept A: \$ 30,104,392.73	Concept B: \$ 23,979,887.59	Concept C: \$ 21,422,791.74	Concept D: \$ 11,746,893.14	Concept E: \$ 10,506,341.11					
Factored Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,649	\$ 47,965	\$ 53,537	\$ 54,466	\$ 51,207
	Market Price w/ multiplier of Residential Parcels	\$ 2,503,800	\$ 2,060,700	\$ 2,555,400	\$ 2,587,200	\$ 372,300	\$ 5,227,128	\$ 2,571,969	\$ 1,346,813	\$ 231,926	\$ 157,647
	Market Price w/ multiplier of Commercial Parcels	\$ 47,183,100	\$ 35,424,300	\$ 24,889,500	\$ 6,155,400	\$ 4,098,600	\$ 14,198,363	\$ 14,187,728	\$ 16,777,418	\$ 12,899,734	\$ 13,265,350
	Market Price w/ multiplier of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Market Price w/ multipliers	\$ 49,686,900	\$ 37,485,000	\$ 27,444,900	\$ 8,742,600	\$ 4,470,900	\$ 19,481,141	\$ 16,807,662	\$ 18,177,767	\$ 13,186,126	\$ 13,474,205
Total Cost of ROW by Concept		Concept A: \$ 69,168,041	Concept B: \$ 54,292,662	Concept C: \$ 45,622,667	Concept D: \$ 21,928,726	Concept E: \$ 17,945,104.73					
Parcel Acres (acres)	Acres of Agricultural Parcels	0.00	0.00	0.00	0.00	0.00	2.31	1.99	2.22	2.26	2.12
	Acres of Residential Parcels	4.84	6.03	7.77	5.37	0.11	16.09	8.56	8.15	2.00	1.75
	Acres of Commercial Parcels	32.35	25.07	21.87	5.90	4.25	24.67	18.13	23.56	16.03	15.78
	Acres of Exempt Parcels	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.51	0.00	0.00
	Total Acres	37.19	31.11	29.63	11.27	4.37	43.66	28.67	34.44	20.28	19.65
Total Taken Acres by Concept		Concept A: 80.85	Concept B: 59.78	Concept C: 64.07	Concept D: 31.55	Concept E: 24.02					

Segment 6 - Right-of-Way Estimating

General Parcel Data				
	Concept A	Concept B	Concept C	Concept D
General				
# of Parcel Impacted	144	141	77	66
Total Acres of Parcels	1234.14	987.33	591.71	518.09
Acres Impacted	145.10	91.29	29.85	22.27
Parcel Classification				
Agricultural Acres	549.82	293.93	268.84	236.02
Residential Acres	277.49	287.69	121.83	115.76
Commercial Acres	406.83	405.72	201.04	166.31
Exempt Acres	0.00	0.00	0.00	0.00
Total Acres	1234.14	987.33	591.71	518.09
Impacted Acres				
Impacted Agricultural Acres	28.01	7.10	7.06	2.25
Impacted Residential Acres	65.85	45.10	9.99	10.13
Impacted Commercial Acres	51.23	39.09	12.79	9.90
Impacted Exempt Acres	0.00	0.00	0.00	0.00
Total Acres	145.10	91.29	29.85	22.27

Parcel Classification	Factors/Multipliers		
	Impact % for Displacement	Displacement Multiplier	Impacted (Partial) Multiplier
Agricultural	50	3.0	1.0
Residential	50	3.0	1.3
Commercial	25	3.0	1.5
Exempt	50	3.0	1.0

Total ROW Acreage and Cost Breakdown									
		Parcels Displaced (greatly impacted parcels - full parcel purchased)				Parcels Impacted (minimally impacted parcels - full parcel NOT purchased)			
		Concept A	Concept B	Concept C	Concept D	Concept A	Concept B	Concept C	Concept D
Parcel Counts (#)									
# of Agricultural Parcels		0	0	0	0	8	5	4	3
# of Residential Parcels		13	8	2	2	66	73	33	30
# of Commercial Parcels		24	17	3	2	33	38	35	29
# of Exempt Parcels		0	0	0	0	0	0	0	0
Total # Parcels		37	25	5	4	107	116	72	62
Parcels Impacted by Concept		Concept A: 144		Concept B: 141		Concept C: 77		Concept D: 66	
Market Price of Parcels (\$)									
Market Price of Agricultural Parcels		\$ -	\$ -	\$ -	\$ -	\$ 227,532	\$ 66,157	\$ 66,533	\$ 19,201
Market Price of Residential Parcels		\$ 6,653,100	\$ 5,023,200	\$ 1,472,500	\$ 3,858,200	\$ 2,701,693	\$ 2,930,550	\$ 815,987	\$ 608,094
Market Price of Commercial Parcels		\$ 8,826,800	\$ 5,597,500	\$ 1,397,700	\$ 401,000	\$ 1,799,155	\$ 2,277,172	\$ 358,546	\$ 895,446
Market Price of Exempt Parcels		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price		\$ 15,479,900	\$ 10,610,700	\$ 2,870,200	\$ 4,259,200	\$ 4,728,320	\$ 5,273,879	\$ 1,241,065	\$ 1,522,741
Market Price by Concept		Concept A: \$ 20,208,219.78		Concept B: \$ 15,884,579.11		Concept C: \$ 4,111,265.07		Concept D: \$ 5,781,941.33	
Factored Market Price of Parcels (\$)									
Market Price w/ multiplier of Agricultural Parcels		\$ -	\$ -	\$ -	\$ -	\$ 227,532	\$ 66,157	\$ 66,533	\$ 19,201
Market Price w/ multiplier of Residential Parcels		\$ 19,959,300	\$ 15,069,600	\$ 4,417,500	\$ 11,574,600	\$ 3,512,123	\$ 3,809,715	\$ 1,060,783	\$ 790,523
Market Price w/ multiplier of Commercial Parcels		\$ 26,480,400	\$ 16,762,500	\$ 4,193,100	\$ 1,203,000	\$ 2,698,732	\$ 3,415,758	\$ 537,819	\$ 1,343,168
Market Price w/ multiplier of Exempt Parcels		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price w/ multipliers		\$ 46,439,700	\$ 31,832,100	\$ 8,610,600	\$ 12,777,600	\$ 6,438,387	\$ 7,291,630	\$ 1,665,134	\$ 2,152,892
Total Cost of ROW by Concept		Concept A: \$ 52,878,087		Concept B: \$ 39,123,730		Concept C: \$ 10,275,734		Concept D: \$ 14,930,492	
Parcel Acreage (Acres)									
Acreage of Agricultural Parcels		0.00	0.00	0.00	0.00	28.01	7.10	7.06	2.25
Acreage of Residential Parcels		37.47	11.92	4.42	1.37	36.66	35.54	6.26	9.15
Acreage of Commercial Parcels		74.02	41.44	20.52	1.65	17.03	22.39	4.52	9.10
Acreage of Exempt Parcels		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Acres		111.49	53.36	24.94	3.03	81.69	65.03	17.84	20.49
Total Taken Acres by Concept		Concept A: 193.19		Concept B: 118.39		Concept C: 42.78		Concept D: 23.52	

Segment 7 Right-of-Way Estimating

General Parcel Data					
	Concept A	Concept B	Concept C	Concept D	
General	# of Parcel Impacted	40	27	25	9
	Total Acres of Parcels	2262.09	3101.08	3204.24	1849.81
	Acres Impacted	23.27	17.19	16.19	4.05
Parcel Classification	Agricultural Acres	562.03	321.05	406.35	56.07
	Residential Acres	85.09	42.65	14.49	0.00
	Commercial Acres	25.24	1121.97	1137.61	1.13
	Exempt Acres	1589.74	1615.41	1645.79	1792.61
	Total Acres	2262.09	3101.08	3204.24	1849.81
Impacted Acres	Impacted Agricultural Acres	13.71	3.70	3.78	0.21
	Impacted Residential Acres	4.53	5.95	5.25	0.00
	Impacted Commercial Acres	0.88	0.94	0.45	0.02
	Impacted Exempt Acres	4.15	6.60	6.70	3.83
	Total Acres	23.27	17.19	16.19	4.05

Factors/Multipliers			
Parcel Classification	Take %	Take Multiplier	"Partial Take" Multiplier
Agricultural	50	3.0	1.0
Residential	50	3.0	1.3
Commercial	25	3.0	1.5
Exempt	50	3.0	1.0

Total ROW Acres and Cost Breakdown								
Parcel Counts (#)	Parcels "Taken" (greatly impacted parcels - full parcel purchased)				Parcels "Partially Taken" (minimally impacted parcels - full parcel NOT purchased)			
	Concept A	Concept B	Concept C	Concept D	Concept A	Concept B	Concept C	Concept D
	# of Agricultural Parcels	0	0	0	0	10	6	6
# of Residential Parcels	3	2	2	0	19	11	7	0
# of Commercial Parcels	0	1	0	0	5	4	7	1
# of Exempt Parcels	0	1	1	0	3	2	2	6
Total # Parcels	3	4	3	0	37	23	22	9
Parcels impacted by Concept	Concept A: 40	Concept B: 27	Concept C: 25	Concept D: 9				
Market Price of Parcels (\$)	Market Price of Agricultural Parcels	\$ -	\$ -	\$ -	\$ 147,111	\$ 26,740	\$ 32,404	\$ 1,329
	Market Price of Residential Parcels	\$ 122,700	\$ 101,800	\$ 101,800	\$ 116,383	\$ 107,147	\$ 84,811	\$ -
	Market Price of Commercial Parcels	\$ -	\$ 11,800	\$ -	\$ 93,975	\$ 6,496	\$ 16,464	\$ 2,855
	Market Price of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price + acquisition	\$ 152,700	\$ 153,600	\$ 131,800	\$ -	\$ 687,439	\$ 370,383	\$ 353,679	\$ 94,184
Market Price by Concept	Concept A: \$ 840,138.99	Concept B: \$ 523,983.03	Concept C: \$ 485,479.50	Concept D: \$ 94,184.01				
Factored Market Price of Parcels (\$)	Market Price w/ multiplier of Agricultural Parcels	\$ -	\$ -	\$ -	\$ 147,111	\$ 26,740	\$ 32,404	\$ 1,329
	Market Price w/ multiplier of Residential Parcels	\$ 368,100	\$ 305,400	\$ 305,400	\$ 151,259	\$ 139,291	\$ 110,255	\$ -
	Market Price w/ multiplier of Commercial Parcels	\$ -	\$ 35,400	\$ -	\$ 80,962	\$ 9,744	\$ 24,696	\$ 4,283
	Market Price w/ multiplier of Exempt Parcels	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Market Price w/ multipliers & acquisition	\$ 398,100	\$ 380,800	\$ 335,400	\$ -	\$ 749,332	\$ 405,775	\$ 387,355	\$ 95,612
Total Cost of ROW by Concept	Concept A: \$ 1,147,432.34	Concept B: \$ 786,575.01	Concept C: \$ 722,754.98	Concept D: \$ 95,611.54				
Parcel Acreage (Acres)	Acreage of Agricultural Parcels	0.00	0.00	0.00	13.71	3.70	3.78	0.21
	Acreage of Residential Parcels	2.97	5.26	5.26	1.88	2.21	1.51	0.00
	Acreage of Commercial Parcels	0.00	0.68	0.00	0.88	0.26	0.45	0.02
	Acreage of Exempt Parcels	0.00	10.35	10.35	4.15	0.44	0.58	3.83
	Total Acres	2.97	16.29	15.61	0.00	20.63	6.60	6.33
Total Taken Acres by Concept	Concept A: 23.59	Concept B: 22.89	Concept C: 21.94	Concept D: 4.05				