

**Coonpath Rd and Election House Rd
Intersection Feasibility Study**

Appendix H

Cost Estimates



Coonpath Rd and Election House Rd Intersection

Coonpath Signalized
09/13/24

DESCRIPTION	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE (2024 dollars)
ROADWAY				
Pavement Removed	1,872	SQ YD	8	\$14,980
Excavation	1,500	CU YD	30	\$45,000
Embankment	3,000	CU YD	18	\$54,000
ROADWAY SUBTOTAL				\$114,000
DRAINAGE				
Drainage	1	LUMP	\$20,000.00	\$20,000
DRAINAGE SUBTOTAL				\$20,000
EROSION CONTROL & BMP ELEMENTS				
Erosion Control	1	LUMP	\$25,000.00	\$25,000
EROSION CONTROL SUBTOTAL				\$25,000
PAVEMENT				
<i>FULL DEPTH PAVEMENT - ASPHALT</i>				
Asphalt Pavement Build-up	7,419	SQ YD	\$100.00	\$741,889
<i>RESURFACING - ASPHALT</i>				
Asphalt Resurfacing	7,212	SQ YD	\$18.00	\$129,810
PAVEMENT SUBTOTAL				\$871,700
MAINTENANCE OF TRAFFIC				
MOT	1	LUMP	\$60,000.00	\$60,000
MAINTENANCE OF TRAFFIC SUBTOTAL				\$60,000
TRAFFIC CONTROL				
Traffic Control	1	LUMP	\$25,000.00	\$25,000
Signals	1	LUMP	\$300,000.00	\$300,000
TRAFFIC CONTROL SUBTOTAL				\$325,000
LIGHTING				
Lighting	1	LUMP	\$75,000.00	\$75,000
LIGHTING SUBTOTAL				\$75,000
CONSTRUCTION MISC.				
Field Office, Type B	12	MONTH	2,000	\$24,000
Construction Layout Stakes (0.75% of Total)	1	LUMP	11,180	\$11,180
Mobilization	1	LUMP	40,000	\$40,000
CONSTRUCTION MISC. SUBTOTAL				\$75,200
CONSTRUCTION COST SUBTOTAL				\$1,565,900
COST CONTINGENCY - PRELIMINARY ENGINEERING (30%)				\$469,770
TOTAL CONSTRUCTION COST, 2024 DOLLARS				\$2,036,000
Construction Cost Inflation Rate (2024 to 2027)	17.9%			\$364,444
CONSTRUCTION COST, 2029 DOLLARS				\$2,401,000
- ESTIMATE DOES NOT INCLUDE COSTS FOR RIGHT OF WAY ACQUISITIONS OR UTILITY RELOCATIONS.				

Coonpath Rd and Election House Rd Intersection

Shifted Roundabout with Right Turn
09/13/24

DESCRIPTION	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE (2024 dollars)
ROADWAY				
Pavement Removed	4,963	SQ YD	\$8.00	\$39,700
Curb	490	FT	\$25.00	\$12,250
Curb and Gutter	2,317	FT	\$30.00	\$69,510
Concrete Median	9,485	SQ FT	\$10.00	\$94,850
Truck Apron	325	SQ YD	\$135.00	\$43,830
Excavation	4,500	CU YD	\$30.00	\$135,000
Embankment	7,000	CU YD	\$18.00	\$126,000
ROADWAY SUBTOTAL				\$521,200
DRAINAGE				
Drainage	1	LUMP	\$120,000.00	\$120,000
DRAINAGE SUBTOTAL				\$120,000
EROSION CONTROL & BMP ELEMENTS				
Erosion Control	1	LUMP	\$75,000.00	\$75,000
EROSION CONTROL SUBTOTAL				\$75,000
PAVEMENT				
<i>FULL DEPTH PAVEMENT - ASPHALT</i>				
Asphalt Pavement Build-up	6,869	SQ YD	\$100.00	\$686,900
PAVEMENT SUBTOTAL				\$686,900
MAINTENANCE OF TRAFFIC				
MOT	1	LUMP	\$150,000.00	\$150,000
MAINTENANCE OF TRAFFIC SUBTOTAL				\$150,000
TRAFFIC CONTROL				
Traffic Control	1	LUMP	\$40,000.00	\$40,000
TRAFFIC CONTROL SUBTOTAL				\$40,000
LIGHTING				
Lighting	1	LUMP	\$110,000.00	\$110,000
LIGHTING SUBTOTAL				\$110,000
CONSTRUCTION MISC.				
Field Office, Type B	12	MONTH	\$2,000.00	\$24,000
Construction Layout Stakes (0.75% of Total)	1	LUMP	\$12,773.25	\$12,773
Mobilization	1	LUMP	\$40,000.00	\$40,000
CONSTRUCTION MISC. SUBTOTAL				\$76,800
CONSTRUCTION COST SUBTOTAL				\$1,779,900
COST CONTINGENCY - PRELIMINARY ENGINEERING (30%)				\$533,970
TOTAL CONSTRUCTION COST, 2024 DOLLARS				\$2,314,000
Construction Cost Inflation Rate (2024 to 2027)	17.9%			\$414,206
CONSTRUCTION COST, 2029 DOLLARS				\$2,729,000
- ESTIMATE DOES NOT INCLUDE COSTS FOR RIGHT OF WAY ACQUISITIONS OR UTILITY RELOCATIONS.				

Coonpath Rd and Election House Rd Intersection

Peanut Roundabout

08/07/24

DESCRIPTION	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE (2024 dollars)
ROADWAY				
Pavement Removed	6,444	SQ YD	\$8.00	\$51,556
Curb	2,600	FT	\$25.00	\$65,000
Curb and Gutter	2,900	FT	\$30.00	\$87,000
Concrete Median	10,600	SQ FT	\$10.00	\$106,000
Truck Apron	833	SQ YD	\$135.00	\$112,500
Excavation	4,500	CU YD	\$30.00	\$135,000
Embankment	8,000	CU YD	\$18.00	\$144,000
ROADWAY SUBTOTAL				\$701,100
DRAINAGE				
Drainage	1	LUMP	\$120,000.00	\$120,000
DRAINAGE SUBTOTAL				\$120,000
EROSION CONTROL & BMP ELEMENTS				
Erosion Control	1	LUMP	\$100,000.00	\$100,000
EROSION CONTROL SUBTOTAL				\$100,000
PAVEMENT				
<i>FULL DEPTH PAVEMENT - ASPHALT</i>				
Asphalt Pavement Build-up	10,222	SQ YD	\$100.00	\$1,022,222
PAVEMENT SUBTOTAL				\$1,022,300
MAINTENANCE OF TRAFFIC				
MOT	1	LUMP	\$150,000.00	\$150,000
MAINTENANCE OF TRAFFIC SUBTOTAL				\$150,000
TRAFFIC CONTROL				
Traffic Control	1	LUMP	\$50,000.00	\$50,000
TRAFFIC CONTROL SUBTOTAL				\$50,000
LIGHTING				
Lighting	1	LUMP	\$150,000.00	\$150,000
LIGHTING SUBTOTAL				\$150,000
CONSTRUCTION MISC.				
Field Office, Type B	12	MONTH	\$2,000.00	\$24,000
Construction Layout Stakes (0.75% of Total)	1	LUMP	\$17,200.50	\$17,201
Mobilization	1	LUMP	\$40,000.00	\$40,000
CONSTRUCTION MISC. SUBTOTAL				\$81,300
CONSTRUCTION COST SUBTOTAL				\$2,374,700
COST CONTINGENCY - PRELIMINARY ENGINEERING (30%)				\$712,410
TOTAL CONSTRUCTION COST, 2024 DOLLARS				\$3,088,000
Construction Cost Inflation Rate (2024 to 2027)	17.9%			\$552,752
CONSTRUCTION COST, 2029 DOLLARS				\$3,641,000
- ESTIMATE DOES NOT INCLUDE COSTS FOR RIGHT OF WAY ACQUISITIONS OR UTILITY RELOCATIONS.				