

Staff Report

Subject: Goshen Road Widening

Author: Angela Stanley, Project Manager

Department: ADMIN

Meeting Date: August 1, 2023

Item Description: Goshen Road Traffic Analysis and Concept Design

Summary Recommendation: Staff recommends approval for the Goshen Road Traffic Analysis and Concept Design

Executive Summary/Background:

- Project consists of traffic analysis and conceptual design along Goshen Road, from Hodgeville Road to SR 21.
- Geotechnical services were also completed along the corridor to determine roadway condition and treatment needed based on build conditions.
- Deliverables consist of Traffic Engineering (TE) Report/Corridor Study, Concept Layout and Cost Estimate, and Geotechnical Report.

Alternatives for Commission to Consider

1. Approval
2. Deny
3. Take no action.

Recommended Alternative: 1

Other Alternatives:

Department Review: County Manager, Project Manager, Purchasing, Finance

Funding Source: TSPLOST

Attachments:

1. Goshen Road Traffic Analysis and Concept Design
2. Cost Estimate

DATE : 6/1/2023
 PAGE : 1 CONCEPT CONSTRUCTION COST ESTIMATE
 JOB NUMBER: 1230021
 DESCRIPTION: Effingham County - Goshen Rd - Conceptual Layout

ITEM	ALT UNITS	DESCRIPTION	PRICE	QUANTITY	AMOUNT
150-1000	LS	TRAFFIC CONTROL	\$420,953.78	1	\$420,953.78
163-9999	LS	EROSION CONTROL	\$210,476.89	1	\$210,476.89
210-0100	LS	GRADING COMPLETE	\$841,907.55	1	\$841,907.55
232-0001	LS	CSX RAILROAD CONSTRUCTION (INCL PE AGREEMENT)	\$500,000.00	1	\$500,000.00
310-1101	TN	GR AGGR BASE CRS, INCL MATL	\$38.85	17000	\$660,450.00
315-1000	TN	PORTLAND CEMENT	\$292.95	1775	\$519,986.25
315-1070	SY	CEMENT STABILIZED RECLAIMED BASE COURSE, 7 IN, INCL MATERIAL	\$4.50	59200	\$266,400.00
318-3000	TN	AGGR SURF CRS	\$39.46	4200	\$165,732.00
402-3130	TN	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	\$109.21	8430	\$920,640.30
402-3190	TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	\$111.57	4400	\$490,908.00
402-3121	TN	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	\$107.76	3905	\$420,802.80
413-0750	GL	TACK COAT	\$1.39	12580	\$17,486.20
432-5010	SY	MILL ASPH CONC PVMT, VARIABLE DEPTH	\$3.04	1610	\$4,894.40
441-0018	SY	DRIVEWAY CONC, 8 IN TK	\$90.21	44	\$3,969.24
441-4020	SY	CONC VALLEY GUTTER, 6 IN	\$72.09	17	\$1,225.53
441-6222	LF	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	\$25.47	800	\$20,376.00
456-2015	GLM	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP)	\$1,221.67	8	\$9,773.36
500-3800	CY	CLASS A CONCRETE, INCL REINF STEEL	\$1,641.41	16	\$26,262.56
550-1180	LF	STORM DRAIN PIPE, 18 IN, H 1-10	\$81.67	160	\$13,067.20
550-1240	LF	STORM DRAIN PIPE, 24 IN, H 1-10	\$107.79	320	\$34,492.80
550-2180	LF	SIDE DRAIN PIPE, 18 IN, H 1-10	\$61.99	3224	\$199,855.76
550-3518	EA	SAFETY END SECTION 18 IN, STORM DRAIN, 6:1 SLOPE	\$1,325.13	8	\$10,601.04
550-3618	EA	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	\$1,026.53	212	\$217,624.36
647-1000	LS	TRAFFIC SIGNAL INSTALLATION NO 1 - SR 21 AT GOSHEN RD	\$50,000.00	1	\$50,000.00
636-1033	SF	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	\$23.45	340	\$7,973.00
636-1036	SF	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	\$22.66	425	\$9,630.50
636-2070	LF	GALV STEEL POSTS, TP 7	\$10.25	1105	\$11,326.25
653-0100	EA	THERMOPLASTIC PVMT MARKING, RR/HWY CROSSING SYMBOL	\$527.77	4	\$2,111.08
653-0120	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	\$88.32	201	\$17,752.32
653-1501	LF	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	\$0.81	39400	\$31,914.00
653-1502	LF	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	\$0.78	33500	\$26,130.00
653-1704	LF	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	\$8.71	762	\$6,637.02
653-1804	LF	THERMOPLASTIC SOLID TRAF STRIP, 8 IN, WHITE	\$2.51	1385	\$3,476.35
653-3501	GLF	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	\$0.60	575	\$345.00
653-3502	GLF	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	\$0.47	27750	\$13,042.50
653-6004	SY	THERMOPLASTIC TRAF STRIPING, WHITE	\$4.26	55	\$234.30
653-6006	SY	THERMOPLASTIC TRAF STRIPING, YELLOW	\$5.00	1320	\$6,600.00
654-1002	EA	RAISED PVMT MARKERS TP 2	\$4.01	995	\$3,989.95
653-6006	EA	RAISED PVMT MARKERS TP 3	\$4.69	40	\$187.60
668-8011	SF	SAFETY GRATE, TP 1	\$71.79	190	\$13,640.10
CONSTRUCTION SUBTOTAL					\$6,182,875.99
UTILITY RELOCATION COST (Assumed 10% cost of construction)					\$618,287.60
CONTINGENCY PERCENT (20.0):					\$1,360,232.72
ESTIMATED ROW COST:					
ESTIMATED SUBTOTAL:					\$8,161,396.31
INFLATION (3%/YEAR) (ASSUMED 2 YEARS):					\$497,029.04
ESTIMATED GRAND TOTAL:					\$8,658,425.34

*Please note that the construction costs shown above do not include costs associated with ROW/EASMT.