

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. Nos. 231220 & 210530, Newton County **OFFICE** Preconstruction  
STP-000S(14) & IM-20-2(141)  
SR 142 from SR 12/US 278 to North of CR 75 **DATE** May 24, 2005

**FROM** *Cyahn Kunkle*  
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT NOTICE OF LOCATION AND DESIGN APPROVAL**

Attached for your further handling is the approved Location and Design Report on the above subject project.

Also attached is the Notice of Location and Design Approval. This is authorization for the District to proceed with advertisement.

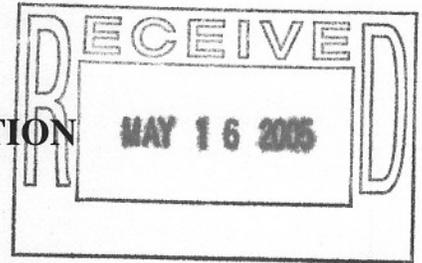
MBP/cj

Attachment

DISTRIBUTION:

David Mulling  
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DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

*Newton*  
**FILE** STP-000S(14) / IM-20-2(141) **OFFICE** Urban Design  
P.I.No. 231220 / P.I. No. 210530  
SR 142 from SR 12/ US 278 to North of CR 75. **DATE** May 10, 2005  
*James B. Buchan*  
**FROM** James B. Buchan, P.E., State Urban Design Engineer  
**TO** Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT** Location and Design Report

**Description and Project Proposal:** The projects STP-000S(14) and IM-20-2(141), Newton County, will widen and reconstruct SR 142 from south of US 278/ SR 12 to north of Hazelbrand Road, a distance of approximately 1.66 miles. The typical section from south of US 278 / SR 12 to I-20 has four 12-foot lanes, a 44-foot median, 4-foot bike lanes, and a 12-foot urban shoulder with 5-foot sidewalk. The typical section from I-20 to the north has four 12-foot lanes with a 44-foot median, a 10-foot rural shoulder with 6.5 feet of it paved and includes bike lanes and rumble strip. This project would also consist of replacing the SR 142 bridge over I-20 and widening the exit and entrance ramps.

**Concept Approval Date:** April 7, 1994, and revised on July 12, 2000.

**Concept Update:** None

**Environmental Assessment and Reassessment Approval Date:** The Categorical Exclusion was approved October 4, 2000. A re-evaluation was approved on January 27, 2005.

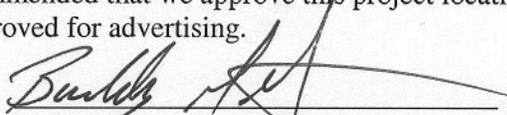
**Public Involvement:** No Public Hearing was held; a Public Information Meeting for these projects, and STP-1418(3) was held on August, 25, 1999. A total of 27 people attended the meeting, including Davis Morgan, Chairman, Newton County Board of Commissioners, Billy Skinner, City of Covington, and Randy Vinson, Special Project Coordinator for Newton County. Several comments expressed a desire for all three projects to include sidewalks according to the Trails Master Plan adopted by Newton County, a few were concerned about access to their businesses and/or loss of property, and the city officials would like the I-20 interchange to have lighting. Five letters were received during the ten-day comment period following the meeting for a total of 11 comments, 8 were in support of the project(s) while 3 opposed. No major changes were made to the project as a result of the comments received.

Margaret Pirkle  
May 10, 2005  
Page 2

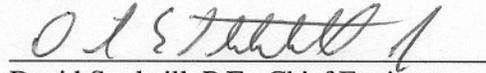
**Consistency with Approved Planning:** The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

**Recommendations:** It is recommended that we approve this project location and design and that the attached 'Notice' to be approved for advertising.

RECOMMEND:

  
Buddy Gratton, P.E., Director of Preconstruction

APPROVE:

  
David Studstill, P.E., Chief Engineer

5/20/05  
Date of Approval

<sup>10/20/05</sup>  
JBB:TPE

Attachments: Sketch Map, Cost Estimates, Notice of Location and Design Approval

**NOTICE OF LOCATION AND DESIGN APPROVAL**

**STP-000S(14) / IM-20-2(141), Newton County  
P.I. No. 231220 / P.I. No. 210530**

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above projects.

This project consists of the widening and reconstruction of SR 142, from south of US 278 / SR 12 to north of Hazelbrand Road, a distance of approximately 1.66 miles. This project lies entirely with Newton County and with Land District 9, Land Lots 256, 257, 258, 262, 263, 274, 275, and 283, and GMD 462.

Date of Location and Design Approval:

May 24, 2005

The roadway section from south of US 278 / SR 12 to I-20 is proposed to be widened to four 12-foot lanes, a 44-foot raised median, 4-foot bike lanes, and a 12-foot urban shoulder with 5-foot sidewalks on both sides of the roadway. The roadway section from I-20 to the north is proposed to be widened to four 12-foot lanes with a 44-foot median, 10-foot rural shoulders with 6.5 feet paved and includes bike lanes. This project would also consist of replacing the SR 142 bridge over I-20 and widening the entrance and exit ramps.

Drawings, maps, or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation – Madison Area Office, 1570 Bethany Road, Madison, Georgia, 30650. Or, any interested party may obtain a copy of the drawings, maps, or plats by writing to the Georgia Department of Transportation, No. 2 Capitol Square, S.W., Atlanta, Georgia 30034-1002, and paying a nominal cost therefore.

Any written requests in reference to this Notice should include the Project and P.I. Number as noted at the top of this notice and may be referred to:

Mr. James B. Buchan, P.E.  
State Urban Design Engineer  
No. 2 Capitol Square, S.W., Room 356  
Atlanta, Georgia 30334-1002

(404) 656-5436



## E. BASE AND PAVING

### Aggregate Base

Graded Aggregate	(12 inches)	26,936	Tons @	\$17.53	\$472,189.00
Graded Aggregate	(6 inches)	0	Tons @	\$7.50	\$0.00

### Asphalt Paving

12.5 mm Superpave		6,073	Tons @	\$44.12	\$267,941.00
19 mm Superpave		8,098	Tons @	\$53.63	\$434,296.00
25 mm Superpave		13,265	Tons @	\$37.56	\$498,234.00
Leveling		3,676	Tons @	\$39.95	\$146,857.00
Tack Coat		4,013	Gal @	\$1.08	\$4,335.00

**SUBTOTAL \$1,823,852.00**

## F. DRAINAGE

### Longitudinal System

18" Conc. Pipe		13027	lf @	\$34.00	\$442,918.00
24" Conc. Pipe		1192	lf @	\$44.00	\$52,448.00
30" Conc. Pipe		625	lf @	\$47.00	\$29,375.00
36" Conc. Pipe		55	lf @	\$63.00	\$3,465.00
42" Conc. Pipe		77	lf @	\$69.00	\$5,313.00
48" Conc. Pipe		285	lf @	\$103.00	\$29,355.00
60" Conc. Pipe		73	lf @	\$133.00	\$9,709.00

### Drainage Structures

Catch Basins		118	EA @	\$1,959.00	\$231,162.00
Drop Inlets		34	EA @	\$2,153.00	\$73,202.00
FES		58	EA @	\$494.03	\$28,653.74

### Drainage Lump Sum

		0	mile @	\$326,000.00	\$0.00
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**SUBTOTAL \$905,600.74**

## G. CONCRETE WORK

Curb and Gutter (Type 2)		12,349	lf @	\$13.60	\$167,947.00
Curb and Gu Gutter (Type 7)		1,269	lf @	\$10.19	\$12,931.11
Concrete Valley Gutter 8"		134	sy @	\$39.16	\$5,248.00
Concrete Median, 4"		1,095	sy @	\$28.32	\$31,011.00
Approach Slabs		0	sy @	\$88.61	\$0.00
Class B Conc., Base/Pvmt Wdng		0	sy @	\$143.65	\$0.00
Concrete Sidewalk, 4 in.		8,032	sy @	\$36.00	\$289,152.00

**SUBTOTAL \$506,289.11**

H. TRAFFIC CONTROL			lump sum \$100,000.00	\$100,000.00
			<b>SUBTOTAL</b>	<b>\$100,000.00</b>
I. EROSION CONTROL	1.98	miles @	\$121,000.00	\$239,580.00
			<b>SUBTOTAL</b>	<b>\$239,580.00</b>
J. SIGNS, STRIPING, SIGNALS, LIGHTING				
Striping	1.9	miles @	\$12,000.00	\$22,800.00
Traffic Signals	4	EA @	\$50,000.00	\$200,000.00
OH signs with lights	2	EA @	\$20,000.00	\$40,000.00
			<b>SUBTOTAL</b>	<b>\$262,800.00</b>
K. GRASSING/LANDSCAPING	1.98	miles @	\$40,000.00	\$79,200.00
			<b>SUBTOTAL</b>	<b>\$79,200.00</b>
L. MISCELLANEOUS				
Field Engineer Office (Type 3)	1	EA @	\$51,337.09	\$51,337.09
Fencing	0	lf @	\$11.52	\$0.00
Right-of-Way Markers	50	EA @	\$79.96	\$3,998.00
			<b>SUBTOTAL</b>	<b>\$55,335.09</b>
M. MAJOR STRUCTURES				
Bridges	0	sy @	\$405.00	\$0.00
Retaining walls	42	sy @	\$452.05	\$18,987.00
<b>Box Culverts</b>				
Concrete	111	cy @	\$476.70	\$52,914.00
Bar Reinf. Steel	8,940	lbs @	\$0.64	\$5,721.60
Jack existing bridge	0	LS @	\$150,000.00	\$0.00
			<b>SUBTOTAL</b>	<b>\$77,622.60</b>
N. GUARDRAIL				
W-beam Rail	1,171	lf @	\$11.31	\$13,245.00
Type 12 Anchors	2	EA @	\$1,392.00	\$2,784.00
			<b>SUBTOTAL</b>	<b>\$16,029.00</b>

## ESTIMATE SUMMARY

A. Right of Way	\$2,671,000.00
B. Reimbursable Utilities (By Locals)	LPGA

### CONSTRUCTION COST SUMMARY

C. Clearing And Grubbing	\$163,000.00
D. Earthwork	\$617,000.00
E. Base and Paving	\$1,824,000.00
F. Drainage	\$906,000.00
G. Concrete Work	\$507,000.00
H. Traffic Control	\$100,000.00
I. Erosion Control	\$240,000.00
J. Signs, Striping, Signals, Lighting	\$263,000.00
K. Grassing/Landscaping	\$80,000.00
L. Miscellaneous	\$56,000.00
M. Major Structures	\$78,000.00
N. Guardrail	\$17,000.00

**ROADWAY SUBTOTAL \$4,851,000.00**

**CONSTRUCTION TOTAL \$4,851,000.00**

0 years of inflation at 5% \$0.00

10% E & C \$485,100.00

**CONSTRUCTION ESTIMATE SUBTOTAL \$5,336,100.00**

**TOTAL CONSTRUCTION ESTIMATE \$5,337,000.00**



## E. BASE AND PAVING

### Aggregate Base

Graded Aggregate	(12 inches)	17,508	Tons @	\$17.53	\$306,916.00
Graded Aggregate	(6 inches)	0	Tons @	\$7.50	\$0.00

### Asphalt Paving

12.5 mm Superpave		3,948	Tons @	\$44.12	\$174,186.00
19 mm Superpave		5,264	Tons @	\$37.27	\$196,190.00
25 mm Superpave		8,622	Tons @	\$37.56	\$323,843.00
Leveling		2,389	Tons @	\$39.95	\$95,441.00
Tack Coat		2,609	Gal @	\$1.08	\$2,818.00

**SUBTOTAL \$1,099,394.00**

## F. DRAINAGE

### Longitudinal System

15" Conc. Pipe		0	lf @	\$26.50	\$0.00
18" Conc. Pipe		2738	lf @	\$34.00	\$93,092.00
24" Conc. Pipe		441	lf @	\$44.00	\$19,404.00
30" Conc. Pipe		585	lf @	\$47.00	\$27,495.00
36" Conc. Pipe		233	lf @	\$63.00	\$14,679.00

### Drainage Structures

Catch Basins		42	EA @	\$1,959.00	\$82,278.00
Drop Inlets		3	EA @	\$2,153.00	\$6,459.00
FES		30	EA @	\$494.03	\$14,820.90

### Drainage Lump Sum

0	mile @	\$326,000.00	\$0.00
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**SUBTOTAL \$258,227.90**

## G. CONCRETE WORK

Curb and Gutter (Type 2)		200	lf @	\$13.60	\$2,720.00
Curb and Gutter (Type 7)		580	lf @	\$10.19	\$5,910.20
Concrete Valley Gutter 8"		40	sy @	\$39.16	\$1,567.00
Concrete Median, 4"		880	sy @	\$28.32	\$24,922.00
Approach Slabs		787	sy @	\$143.65	\$113,053.00
Class B Conc., Base/Pvmt Wdng		0	sy @	\$143.65	\$0.00
Concrete Sidewalk, 4 in.		3,212	sy @	\$36.00	\$115,632.00

**SUBTOTAL \$263,804.20**

## H. TRAFFIC CONTROL

lump sum	\$500,000.00	\$500,000.00
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**SUBTOTAL \$500,000.00**

I. EROSION CONTROL	0.71	miles @	\$121,000.00	\$85,910.00
			<b>SUBTOTAL</b>	<b>\$85,910.00</b>
J. SIGNS, STRIPING, SIGNALS, LIGHTING				
Striping	0.71	miles @	\$12,000.00	\$8,520.00
Traffic Signals	3	EA @	\$50,000.00	\$150,000.00
OH signs with lights	0	EA @	\$20,000.00	\$0.00
			<b>SUBTOTAL</b>	<b>\$158,520.00</b>
K. GRASSING/LANDSCAPING	0.71	miles @	\$40,000.00	\$28,400.00
			<b>SUBTOTAL</b>	<b>\$28,400.00</b>
L. MISCELLANEOUS				
Field Engineer Office (Type 3)	0	EA @	\$51,337.09	\$0.00
Fencing	0	lf @	\$11.52	\$0.00
Right-of-Way Markers	50	EA @	\$79.96	\$3,998.00
			<b>SUBTOTAL</b>	<b>\$3,998.00</b>
M. MAJOR STRUCTURES				
Bridges	35711	sf @	\$60.00	\$2,142,660.00
Retaining walls	60	sy @	\$452.05	\$27,123.00
<b>Box Culverts</b>				
Concrete	121	cy @	\$476.70	\$57,681.00
Bar Reinf. Steel	8,940	lbs @	\$0.64	\$5,721.60
Jack existing bridge	0	LS @	\$150,000.00	\$0.00
			<b>SUBTOTAL</b>	<b>\$2,233,185.60</b>
N. GUARDRAIL				
W-beam Rail	2,000	lf @	\$11.31	\$22,620.00
Type 12 Anchors	4	EA @	\$1,392.00	\$5,568.00
			<b>SUBTOTAL</b>	<b>\$28,188.00</b>

## ESTIMATE SUMMARY

A. Right of Way	\$19,002,000.00
B. Reimbursable Utilities (By Locals)	LPGA

### CONSTRUCTION COST SUMMARY

C. Clearing And Grubbing	\$98,000.00
D. Earthwork	\$907,000.00
E. Base and Paving	\$1,100,000.00
F. Drainage	\$259,000.00
G. Concrete Work	\$264,000.00
H. Traffic Control	\$500,000.00
I. Erosion Control	\$86,000.00
J. Signs, Striping, Signals, Lighting	\$159,000.00
K. Grassing/Landscaping	\$29,000.00
L. Miscellaneous	\$4,000.00
M. Major Structures	\$2,234,000.00
N. Guardrail	\$29,000.00

**ROADWAY SUBTOTAL \$5,669,000.00**

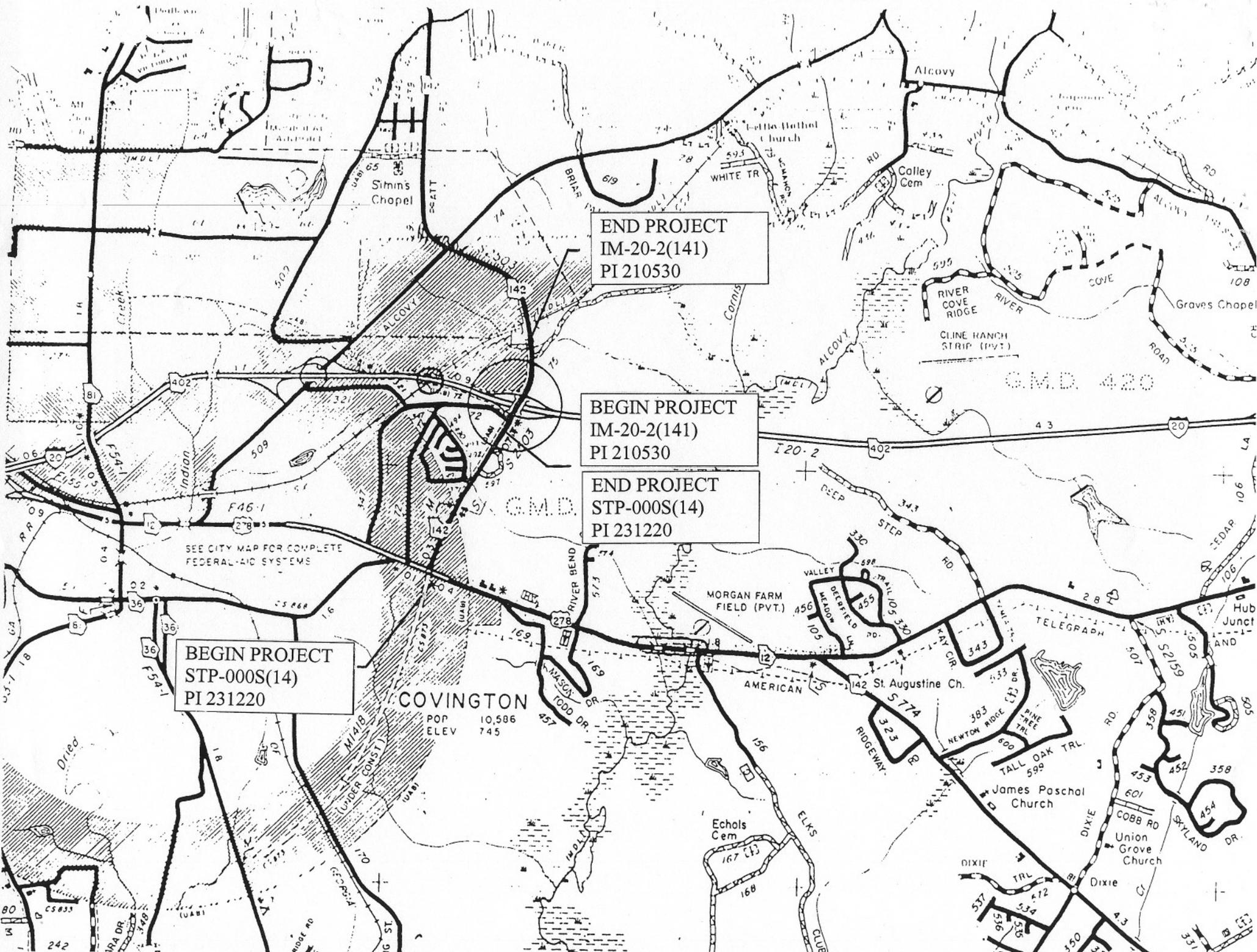
**CONSTRUCTION TOTAL \$5,669,000.00**

0 years of inflation at 5% \$0.00

10% E & C \$566,900.00

**CONSTRUCTION ESTIMATE SUBTOTAL \$6,235,900.00**

**TOTAL CONSTRUCTION ESTIMATE \$6,236,000.00**



END PROJECT  
IM-20-2(141)  
PI 210530

BEGIN PROJECT  
IM-20-2(141)  
PI 210530

END PROJECT  
STP-000S(14)  
PI 231220

BEGIN PROJECT  
STP-000S(14)  
PI 231220

SEE CITY MAP FOR COMPLETE  
FEDERAL-AID SYSTEMS

COVINGTON  
POP 10,586  
ELEV 745

G.M.D. 420

Hub  
Junct  
AND

2159

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