

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE FR-114-1(74) Forsyth County  
P.I. No. 121690

OFFICE Preconstruction

DATE November 14, 1990

FROM *CW Hutto*  
C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

- Juan Durrence
- Bob Humphrey
- Frank Danchetz
- Gene Skeen
- Darrell Elwell
- Ron Colvin
- Walker Scott
- Hugh Tyner



# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

<b>FILE</b>	FR-114-1 (74) Forsyth County P.I. No. 121690 Widen/Reconstruct SR 9	<b>OFFICE</b>	Atlanta, Georgia
		<b>DATE</b>	October 24, 1990
<b>FROM</b>	Robert E. Humphrey, Project Review Engineer <i>REH</i>		
<b>TO</b>	William J. Durrence, Director of Preconstruction		
<b>SUBJECT</b>	<b>PROJECT CONCEPT REPORT</b>		

**RECEIVED**

**OCT 26 1990**

**PRECONSTRUCTION**

We have reviewed the attached Concept Report for this Major project.

We have received signed cover sheets from the following offices:

1. Traffic and Safety
2. Environmental

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$2,458,000
Inflation (5% per year)x 3 yrs.	368,700
E & C (10%)	282,670
Preliminary Engineering (5%)	141,340
Right of Way	3,975,000
Utilities	0

MJB/jmf

Attachments

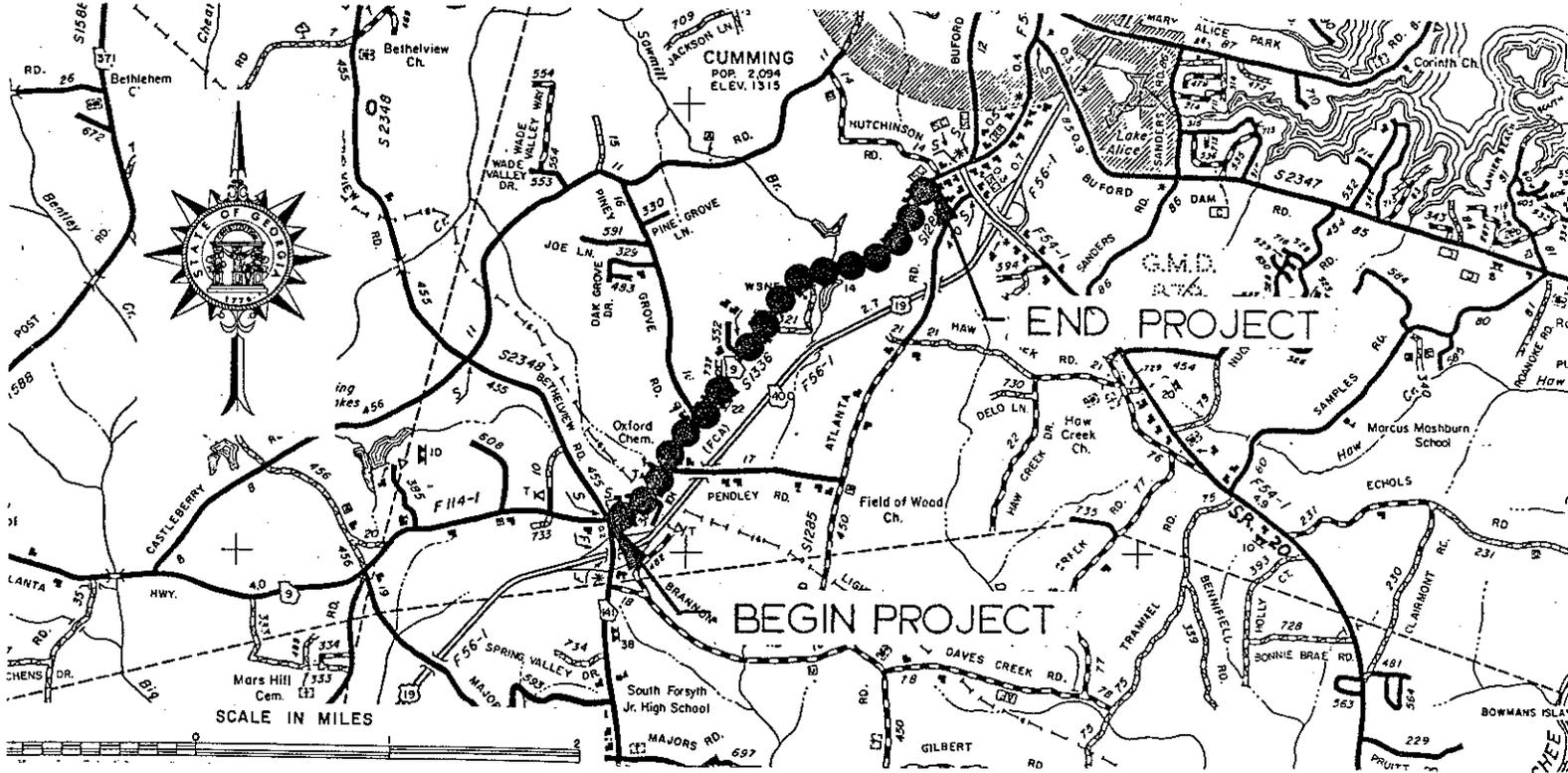
c: Walker W. Scott, Jr.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

FR-114-1 (74) FORSYTH COUNTY

FEDERAL ROUTE NO: F114-1  
STATE ROUTE NO: 9  
GADOT P.I. NO: 121690



Date of Report: September 4, 1990

RECOMMENDATION FOR APPROVAL

9/24/90  
DATE

*Walter Woodcock*  
State Road Airport Design Engineer *WAK*

DATE

State Environmental Engineer

DATE

State Traffic & Safety Engineer

DATE

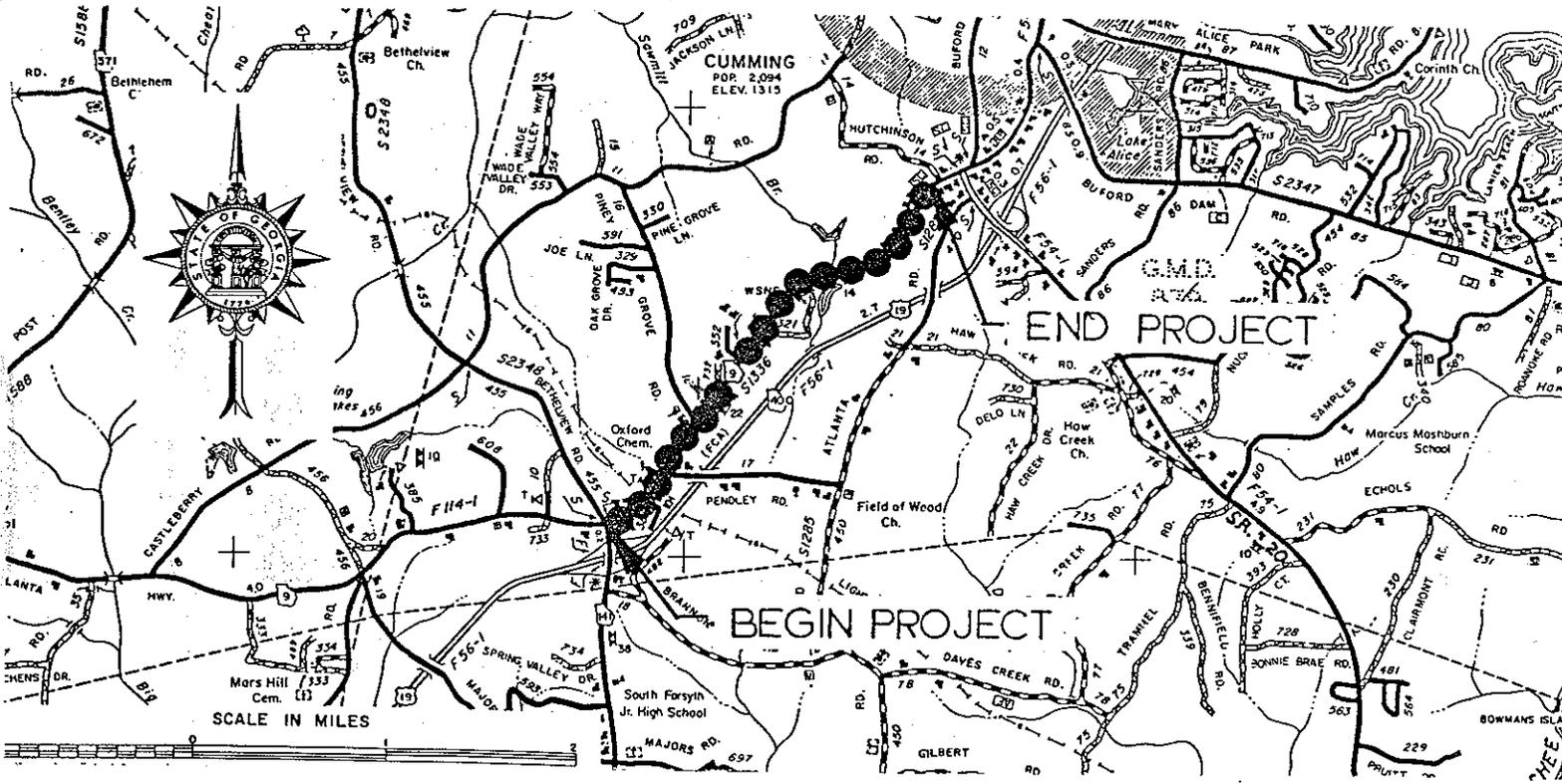
District Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

FR-114-1 (74) FORSYTH COUNTY

FEDERAL ROUTE NO: F114-1  
STATE ROUTE NO: 9  
GADOT P.I. NO: 121690



Date of Report: September 4, 1990

RECOMMENDATION FOR APPROVAL

DATE	<u>9/24/90</u>	<u>W. W. Woot</u> State Road & Airport Design Engineer
DATE	<u>10/19/90</u>	<u>Tom L. Donohue</u> State Environmental Engineer
DATE	_____	State Traffic & Safety Engineer
DATE	_____	District Engineer

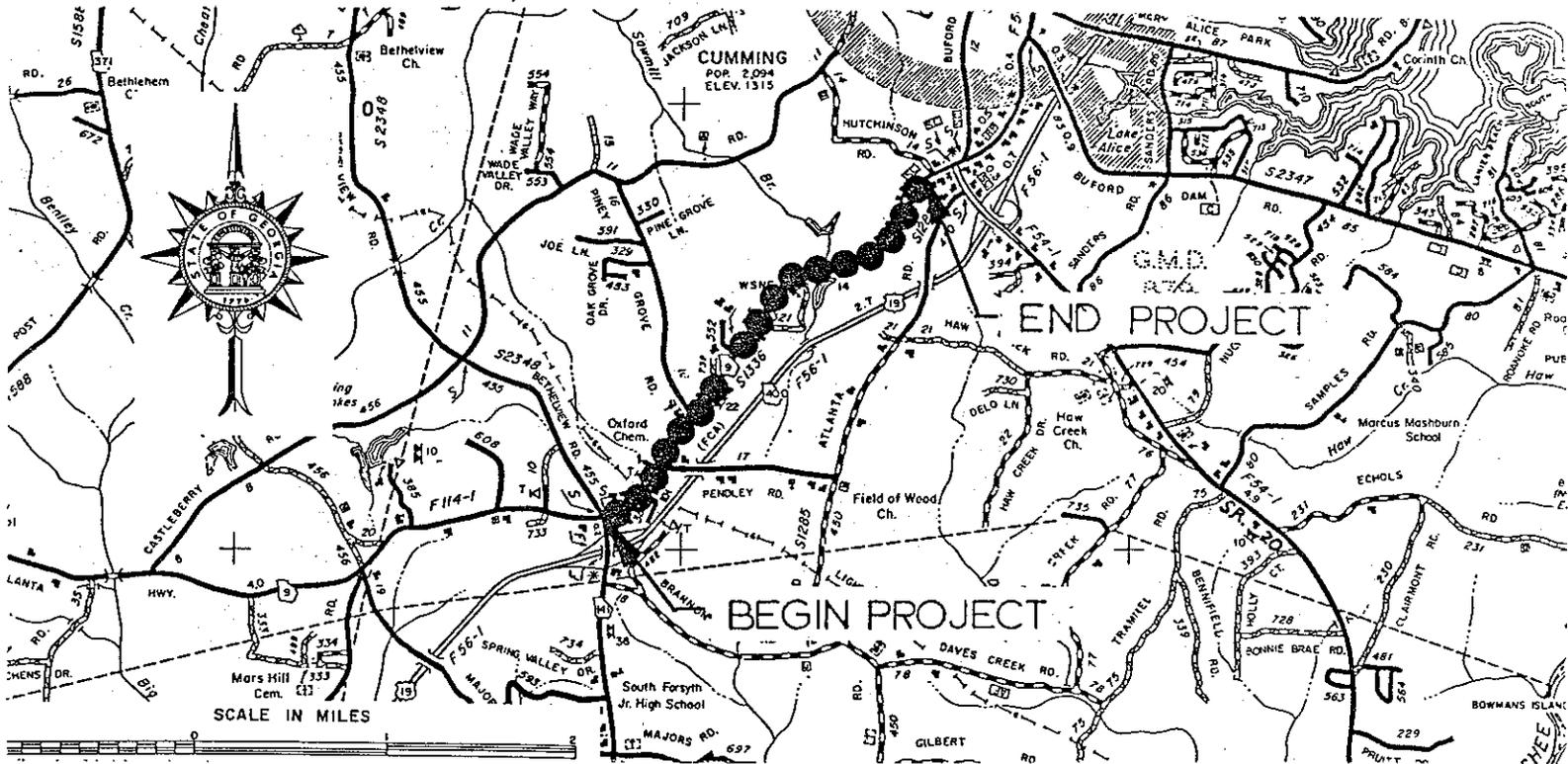
DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA



PROJECT CONCEPT REPORT

FR-114-1 (74) FORSYTH COUNTY

FEDERAL ROUTE NO: F114-1  
STATE ROUTE NO: 9  
GADOT P.I. NO: 121690



Date of Report: September 4, 1990

RECOMMENDATION FOR APPROVAL

DATE 9/24/90

Walter [Signature]  
State Road & Airport Design Engineer *JK*

DATE \_\_\_\_\_

State Environmental Engineer

DATE 10/4/90

Ron [Signature]  
State Traffic & Safety Engineer

DATE \_\_\_\_\_

District Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE



FILE FR-114-1 (74)  
Forsyth County  
P.I. No. 121690

OFFICE Atlanta, Ga.

DATE October 3, 1990

FROM *R. Colvin* Ron Colvin, P.E., State Traffic & Safety Engineer  
TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT **Project Concept Report Review**

We have reviewed the concept report on the above project for widening and reconstruction of S.R. 9. The project begins at S.R. 141 and continues northeast to Atlanta Road Relocation. The design speed is 55 MPH. Length of project is 2.4 miles.

The existing typical section is a 24 ft. roadway with 5 ft. shoulders.

The proposed typical section will retain the existing lanes and reconstruct the roadway alignment to meet the desirable design speed. Two 12 ft. Travel lanes would be added, a 20 ft. raised median provided with curb and gutter and 10 ft. wide outside shoulders (4 ft. paved).

We believe this concept provides for safety and operational capacity.

Approval is recommended.

RC:LEO:lw

Attachment (signature page)

cc: Walker W. Scott; Hugh Tyner - Gainesville

PROJECT CONCEPT REPORT  
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P.I. NO: 121690

PROJECT NO: FR-114-1(74)

FORSYTH COUNTY

PREVIOUS PROJECT NO.: N/A

ROUTE NO: SR 9

LOCATION: ON S.R. 9 BEGINNING AT S.R. 141 AND CONTINUING NORTHEAST TO ATLANTA ROAD RELOCATION.

TRAFFIC: CURRENT ADT: 13,800 (1996)

PROJECTED ADT: 22,600 (2016)

EXISTING TYPICAL SECTION: TWO-12' WIDE TRAVEL LANES. ASPHALTIC CONCRETE PAVEMENT. 5 FOOT WIDE GRASSED SHOULDERS.

EXISTING MAJOR STRUCTURES: NONE

STATEMENT OF NEED AND PURPOSE OF PROJECT: (SEE ATTACHMENT)

LENGTH: 2.4 MILES

BEGINNING: AT S.R. 141

ENDING: AT ATLANTA ROAD RELOCATION

PDP CLASS.: MAJOR

FUNCTIONAL CLASS.: MINOR ARTERIAL/MAJOR COLLECTOR

MAX DEGREE OF CURVE: 5 DEG.

MAX GRADES: 5 %

DESIGN SPEED: 55 MPH

PROPOSED TYPICAL SECTION: RETAIN EXISTING LANES AND RECONSTRUCT WHERE VERTICAL AND HORIZONTAL ALIGNMENT CHANGES ARE REQUIRED TO MEET DESIRABLE SPEED DESIGN. ADD TWO-12' WIDE TRAVEL LANES, A 20' WIDE RAISED MEDIAN WITH CURB AND GUTTER, 10' WIDE RURAL TYPE SHOULDERS, 4' WIDE PAVED OUTSIDE SHOULDERS. APPROXIMATELY 150' WIDE RIGHT OF WAY.

MAJOR STRUCTURES: NONE

TYPE ACCESS: CONTROLLED BY DRIVEWAY PERMIT

TRAFFIC CONTROL DURING CONSTRUCTION: CONSTRUCT UNDER TRAFFIC

ESTIMATED COST:

ITEM:	TOTAL AMOUNT
-----	-----
R/W _____	\$ 3,975,000
UTILITIES _____	0
SUBTOTAL _____	3,975,000
CONSTRUCTION _____	2,457,201
INFLATION _____	245,720
E&C (10%) _____	270,292
TOTAL CONSTRUCTION _____	\$ 2,973,213

PERMITS REQUIRED: CORPS OF ENGINEERS NATIONWIDE

LEVEL OF ENVIRONMENTAL ANALYSIS: ENVIRONMENTAL ASSESSMENT

LEVEL OF PUBLIC INVOLVEMENT: PUBLIC HEARING TO BE HELD

TIME SAVING PROCEDURES APPROPRIATE: YES ( ) NO ( X)

DESIGN EXCEPTIONS REQUIRED: NONE ANTICIPATED

ALTERNATIVES CONSIDERED: NO BUILD-REJECTED

OTHER PROJECTS IN AREA TSAP-141(29) GWINNETT, FR-104-1(33) FULTON,  
MLP-141(28) FULTON/FORSYTH, MLP-141(30) FORSYTH,  
" OUTER PERIMETER ROUTE

CONCEPT TEAM MEETING HELD: AUGUST 10, 1990  
PRESENT: SEE ATTACHED LIST

FIELD REVIEW HELD: TO BE HELD LATER

COMMENTS: THERE IS ONE POSSIBLE HISTORIC SITE WITHIN THE LIMITS OF THIS PROJECT

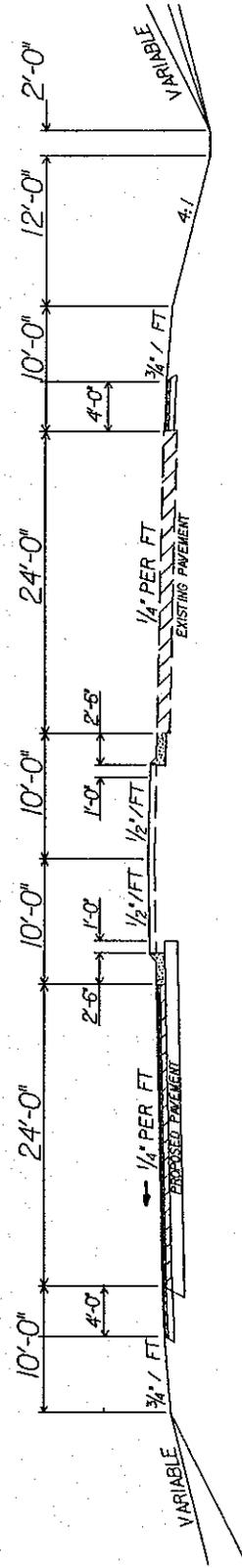
UNDERGROUND STORAGE TANKS: THREE POSSIBLE SITES

DISPLACEMENTS: 2 COMMERCIAL & 6 RESIDENCES ANTICIPATED

ATTACHMENTS: PRELIMINARY COST ESTIMATE, NEED AND PURPOSE STATEMENT, CONCEPT  
TEAM MEETING ATTENDANCE LIST, TYPICAL SECTION, CONCEPT  
MEETING MINUTES.

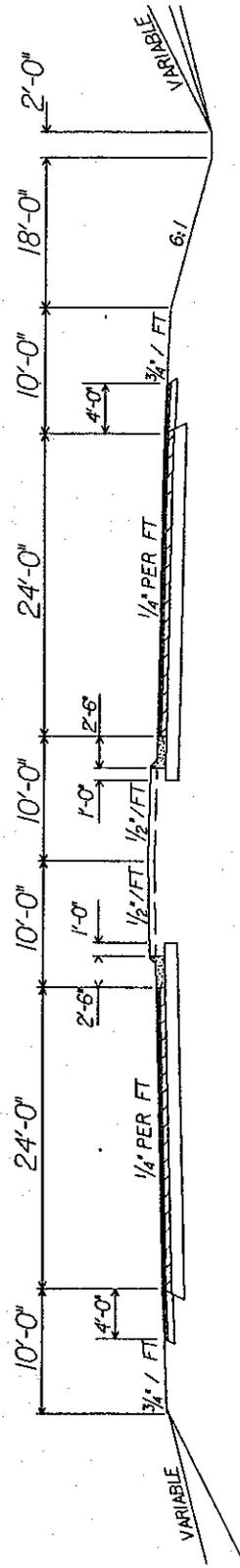
TYPICAL SECTION  
NO SCALE

20' WIDE RAISED MEDIAN



TYPICAL SECTION  
NO SCALE

20' WIDE RAISED MEDIAN - NEW LOCATION  
OR WHERE EXISTING ALIGNMENT CHANGES



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE FR-114-1(74) Forsyth County  
P.I. NO. 121690

OFFICE Atlanta, Georgia

DATE September 26, 1990

FROM *Walker W. Scott*  
Walker W. Scott, Jr., P.E., State Road & Airport Design Engineer *WWS*

TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT Project Concept Report Approval

Attached is a copy of the project concept report of the project for your review and further handling. If there are any additional questions, please contact Hank Ashmore at 656-5180.

WWS:HLA  
Attachments

- c: Juan Durrence
- J.B. Johnson, w/att
- Frank Danchetz, w/att
- Ron Colvin, w/att
- Hugh Tyner, w/att

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE FR-114-1(74) Forsyth County  
P.I. No. 121690

OFFICE Atlanta

DATE October 17, 1990

FROM *Walker W. Scott*  
Walker W. Scott, P.E., State Road & Airport Design Engineer *JML*

TO Robert E. Humphrey, Project Review Engineer

SUBJECT Utility Cost Estimate for Concept Report

Attached is a copy of correspondence from the District Utilities Engineer providing a utility cost estimate for the above listed project.

This information is for your use in revising the project concept report to include the utility cost estimate.

WWS:HLA:bc  
Attachment

- c: Juan Durreñce
- J.B. Johnson, w/att
- Frank Danchetz, w/att
- Ron Colvin, w/att
- Hugh Tyner, w/att

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** FR-114-1 (74) Forsyth County  
G.D.O.T. P.I. No. 121690  
S.R. 9 from S.R. 141 to Atlanta  
Road Relocation

**OFFICE** Gainesville

**DATE** October 5, 1990

**FROM** Hugh L. Tyner, P. E., District Engineer

**TO** Dudley Ellis, State Utilities Engineer

**SUBJECT** Utility Cost Estimate

As requested by Mr. Walker Scott, we provide a cost estimate for utilities on the above numbered project as follows:

Utility Owner	Private Reimbursable	Public Owned
Sawnee EMC (electrical)	\$ 9,000.00	
Atlanta Gas Light Co. (natural gas)	20,000.00	
Annox (cable TV)	6,800.00	
City of Cumming (water)		\$431,750.00
Forsyth Co. Water & Sewer Dept. (water)		55,000.00
TOTAL	\$35,800.00	\$486,750.00

The total estimated reimbursable cost for the above numbered project is \$35,800.00.

If we can provide any further information and/or assistance, please advise.

STP:jhs

cc: Walker Scott



Stanley T. Page  
District Utilities Engineer

PRELIMINARY COST ESTIMATE

PREPARED BY: BILL FERGUSON

DATE: Sept 4, 1990

ESTIMATED LETTING DATE: FY 1994

PROJECT NO: FR-114-1(74)

COUNTY: FORSYTH

P.I. NO: 121690

MILEAGE: 2.4

PROJECT DESCRIPTION: WIDENING AND RECONSTRUCTION OF S.R. 9 FROM S.R. 141 TO ATLANTA ROAD RELOCATION

PROPOSED CONCEPT: RETAIN AND RECONSTRUCT EXISTING LANES EXCEPT WHERE THE VERTICAL AND HORIZONTAL ALIGNMENT CHANGES ARE REQUIRED. ADD TWO-12' WIDE TRAVEL LANES, A 20' WIDE RAISED MEDIAN WITH CURB AND GUTTER, 10' WIDE RURAL TYPE SHOULDERS, 4' WIDE PAVED OUTSIDE SHOULDERS. APPROXIMATELY 150' WIDE RIGHT OF WAY.

EXISTING ROADWAY (IF APPLICABLE): TWO-12' WIDE TRAVEL LANES. ASPHALTIC CONCRETE PAVEMENT

TRAFFIC: EXISTING: 13,800 (1996) DESIGN: 22,600 (2016)

( ) PROGRAMMING PROCESS ( X ) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

PROJECT COSTS

A. RIGHT-OF-WAY:

1. PROPERTY (land & easements)		\$	1,597,000
	LAND	\$	1,554,000
	EASEMENT	\$	43,700
2. DISPLACEMENTS		\$	264,000
	RELOCATIONS	\$	264,000
3. OTHER COST (adm./court, inflation)		\$	2,113,300
	IMPROVE.	\$	605,500
	ADM/COURT	\$	1,121,500
	CONSEQUENTIAL DAMAGES	\$	25,000
	INFLATION	\$	361,300
	SUBTOTAL:	\$	3,975,000

B. REIMBURSABLE UTILITIES:

1. RAILROAD		\$	N/A
2. TRANSMISSION LINES		\$	N/A
3. SERVICES		\$	N/A
	SUBTOTAL:	\$	0

C. MAJOR STRUCTURES:

1. RETAINING WALLS	\$	0
2. BRIDGES	\$	0
3. DETOUR BRIDGES	\$	0
4. BOX CULVERTS	\$	62,750
DBL. 7X6 BOX CULVERT \$ 62,750		
SUBTOTAL:		\$ 62,750

D. GRADING AND DRAINAGE

1. EARTHWORK:	\$	349,000
BORROW 75,000 CU.YD. @ \$2.76		
UNCL. EXC. 100,000 CU.YD. @ \$1.42		
2. DRAINAGE:		
a. Cross Drain Pipe (exc box culverts)	\$	68,544
360'-36" PIPE @ \$ 46.21		
120'-42" PIPE @ \$ 44.18		
120'-30" PIPE @ \$ 33.46		
6-36" FES @ \$ 635.95		
2-42" FES @ \$ 726.18		
2-30" FES @ \$ 492.00		
1050'-24" PIPE @ \$ 25.46		
30-24" FES @ \$ 320.16		
b. Curb and Gutter	\$	185,011
25,344' @ \$ 7.30		
c. Longitudinal System (incl catch basins)	\$	59,075
20 C.B. @ \$ 1169.00		
20-18" FES @ \$ 246.34		
1600'-18" PIPE @ \$ 19.23		
60-18" FES @ \$ 246.34		
1200'-18" SIDE DR. PIPE @ \$ 15.00		
SUBTOTAL:		\$ 661,630

E. BASE AND PAVING:

1. Aggregate Base	\$	389,103
35,373 TONS @ \$ 11.00		
2. Asphalt Paving	\$	876,721
LEVELING 1448 TONS @ \$ 31.00		
ASPH. "E" 7383 TONS @ \$ 31.00		
ASPH. "B" 6936 TONS @ \$ 30.00		
ASPH. BASE 14,491 TONS @ \$ 27.25		
3. Concrete Paving	\$	0
4. Other	\$	17,353
AGG. SURF. CRS. 1000 TONS @ \$ 12.80		
TACK COAT 6070 GAL @ \$ 0.75		
SUBTOTAL:		\$ 1,283,177

F. LUMP ITEMS:

1. TRAFFIC CONTROL	\$	40,000
2. CLEARING AND GRUBBING	\$	210,000
3. LANDSCAPING	\$	0
4. EROSION CONTROL	\$	109,674

CONC. DIT. PAV.	\$	9,216.00
SILT GATES	\$	6,140.00
SED. BASINS	\$	12,200.00
SILT FENCE	\$	8,880.00
BALED STRAW	\$	8,130.00
BTFG	\$	6,090.00
PRSM	\$	19,500.00
MULCH	\$	2,200.00
GRASS	\$	26,000.00
FERT.	\$	5,864.00
LIME	\$	3,834.00
FERT. NIT.	\$	1,620.00

5. DETOURS	\$	0
SUBTOTAL:		\$ 359,674

G. MISCELLANEOUS:

1. LIGHTING	\$	0
2. SIGNING - STRIPING	\$	50,000
3. GUARDRAIL	\$	27,470
	2,000' @ \$	10.71
	5 TY. 9 ANCH. @ \$	885.00
	5 TY. 1 ANCH. @ \$	325.00
4. SIGNAL - SIDEWALK - MEDIAN BARRIER	\$	0
SUBTOTAL:		\$ 77,470

H. SPECIAL FEATURES:	\$	12,500
FIELD ENGINEERS OFFICE TY. II		

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ESTIMATE SUMMARY  
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A. RIGHT-OF-WAY \_\_\_\_\_ \$ 3,975,000  
B. REIMBURSABLE UTILITIES \_\_\_\_\_ \$ 0

CONSTRUCTION ESTIMATE SUMMARY  
=====

C. MAJOR STRUCTURES \_\_\_\_\_ \$ 62,750  
D. GRADING AND DRAINAGE \_\_\_\_\_ \$ 661,630  
E. BASE AND PAVING \_\_\_\_\_ \$ 1,283,177  
F. LUMP ITEMS \_\_\_\_\_ \$ 359,674  
G. MISCELLANEOUS \_\_\_\_\_ \$ 77,470  
H. SPECIAL FEATURES \_\_\_\_\_ \$ 12,500

SUBTOTAL CONSTR COST \_\_\_\_\_ \$ 2,457,201  
INFLATION (5% PER YEAR) \_\_\_\_\_ \$ 245,720  
E. & C. (10%) \_\_\_\_\_ \$ 270,292  
TOTAL CONSTRUCTION COST \_\_\_\_\_ \$ 2,973,213

*Use 2,458,000*

GRAND TOTAL PROJECT COST \_\_\_\_\_ \$ 9,948,213  
=====

NEED & PURPOSE STATEMENT  
SR 9  
FORSYTH COUNTY

Rapid growth in and around the City of Cumming is generating increasing volumes along SR 9 between SR 141 and SR 20. The intersection of SR 20 and SR 9 has become the primary commercial node serving residents of Forsyth County. This intersection is the location of four shopping centers. The development of this commercial area has contributed to the increasing traffic volumes along SR 9.

The purpose of this project is to provide increased capacity along SR 9 from SR 141 to SR 20. Current volumes of 9000 AADT in 1989 indicate a need to improve this facility to handle future demand.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE FR-114-1(74) Forsyth County OFFICE Atlanta  
P.I. No. 121690 DATE August 16, 1990

FROM *Walker W. Scott*  
Walker W. Scott, P.E., State Road & Airport Design Engineer

TO DISTRIBUTION BELOW

SUBJECT Concept Meeting Minutes

A concept meeting for the above project was held in the Office of Road and Airport Design on Friday, August, 10, 1990.

Persons in attendance included: Walker Scott, Jim Kennerly, Herman Griffin, Joe Fletcher, Del Clippard, Daryle Crawford, Larry Pachoud, Melvin Collins, Doug Williams, David Kelly, Henry Ashmore, Bill Ferguson.

**PROJECT DESCRIPTION:**

This project consist of the widening and reconstruction of SR 9 beginning at SR 141 and continuing northeast for approximately 2.5 miles to Atlanta Road relocation. The existing roadway is two 12 foot wide lanes (rural) and will be retained except where realignment is required.

The proposed roadway will consist of adding two 12 foot wide travel lanes with a 20 foot wide raised grassed median and 10 foot wide rural type shoulders.

The No Build Alternate consist of making no change to the existing roadway.

**MAJOR STRUCTURES:** None

**RIGHT OF WAY:** The existing right of way is 100 feet. The proposed right of way is 150 feet minimum.

The Office of Right of Way is to provide a right of way cost estimate based upon information provided by Road and Airport Design.

**LOCATION:** Photography and design traffic data has been furnished to the design office. Mapping and cross sections need to be furnished.

**UTILITIES:** There are existing water and gas lines that will be affected by the proposed construction.

The Office of Utilities is to furnish a cost estimate for any utility relocations along this project.

Page 2  
Concept Meeting Minutes  
August 16, 1990

**PLANNING:** The Office of Planning is to provide a need and purpose statement.

**ENVIRONMENTAL:** The Office of Environmental/Location is to prepare the environmental document. As soon as plans are prepared, they will be furnished to Environmental/Location for wetland and 404 investigation.

**TRAFFIC AND SAFETY:** The Office of Traffic and Safety is to provide accident data including type and location of accidents.

**SCHEDULING:** A schedule will be provided after concept approval.

After the project facts had been discussed, aerial photographs showing the project concept were discussed. The location of median cross overs at street intersections was addressed. One possible historical site was identified by Dania Aponte. The current proposal is to widen on the south side of the existing roadway, so the only possible impact will be if shoulder widening is required.

WWS:HLA:bc

**DISTRIBUTION**

Walker Scott  
Jim Kennerly  
Herman Griffin  
Frank Golder  
Kathy Horton  
Dania Aponte  
Joe Fletcher  
Del Clippard  
Daryle Crawford  
Larry Pachoud  
Melvin Collins  
Doug Williams  
David Kelly (FHWA)  
Hank Ashmore

