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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MR-9009(11) Clayton-Fayette Counties OFFICE Preconstruction
P.I. No. 751850 DATE August 2, 1991

CWH
FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL - WIDENING OF SR 314

Attached for your files is the approval for subject project.

CWH/se

Attachment

DISTRIBUTION:

John Lively
Robert E. Humphrey
David Studstill
Herman Griffin
Roland Hinners
Darrell Elwell
Winn Guthrie
Kirby Hamil
Don Watson
Ron Colvin

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MR-9009(11) Clayton-Fayette Counties OFFICE Preconstruction
P.I. No. 751850 DATE August 1, 1991

FROM Hoyt *Hoyt* Lively, Director of Preconstruction

TO Hal Rives, Commissioner

SUBJECT WIDENING OF SR 314 - PROJECT CONCEPT REPORT

This project is the widening of a 5.6 mile(±) section of SR 314 from SR 279 in Fayette County northerly to Norman Drive in Clayton County just south of College Park. The existing road has a rural section with 24' of pavement and 6' shoulders and has some intersection improvements. The road has variable posted speeds of 40, 50 & 55 MPH. (See page 3 of report for sections with these speeds). The major structure on the project is a triple 8'x8' concrete bridge culvert. Base year and design year traffic is 17,300 VPD (1996) and 27,600 VPD (2016).

The proposed project will widen SR 314 between above termini to have 4-12' lanes with a 20' raised median. A rural section w/10' shoulders will be used from beginning of project to SR 138 with a 50 MPH design speed and an urban section will be used from SR 138 to end of project at Norman Drive with a 45 MPH design speed. Vertical and horizontal alignment will be corrected to meet current design standards as required. The triple 8'x8' culvert will be extended to appropriate length. Traffic will be maintained on existing road during construction. Environmental considerations are: (1) displacement of 3 residences; (2) COE 404; (3) Environmental assessment; (4) a public hearing will be held. The estimated cost of the project is:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$9,708,000	\$9,648,000	FY 94
Right-of-way	\$2,445,000	No Est.	Preprogram
Utilities	LGPA*	No Est.	

*LGPA to be sent to counties after concept approval.

I recommend that we approve this project concept report, that the project be removed from Preprogram Status and added to the Construction Work Program for implementation.

HJL/WLP/se

CONCUR:

G. C. Lewis

G. C. Lewis, State Highway Engineer

APPROVED:

Hal Rives

Hal Rives, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED

JUL 10 1991

INTERDEPARTMENT CORRESPONDENCE

PRECONSTRUCTION

FILE MR-9009 (11) *Clayton - Fayette*
~~Fayette - Clayton~~ Counties OFFICE Atlanta, Georgia
 P.I. No. 751850
 Widen SR-~~279~~₃₁₄: 5.6 Miles DATE July 9, 1991

FROM Robert E. Humphrey, Project Review Engineer

TO William J. Durrence, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Minor project and have the following comment:

The Project Manager failed to include an estimated cost for utility relocation.

We have received signed cover sheets from the following offices:

Traffic and Safety

Environmental

District Engineer

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$8,023,000
Inflation (5% per year) x 2 yrs.	802,300
E & C (10%)	882,530
Preliminary Engineering (5%)	441,270
Right of Way	2,445,000
Utilities	---

MJB/jmf

Attachments

c: Walker W. Scott, Jr.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

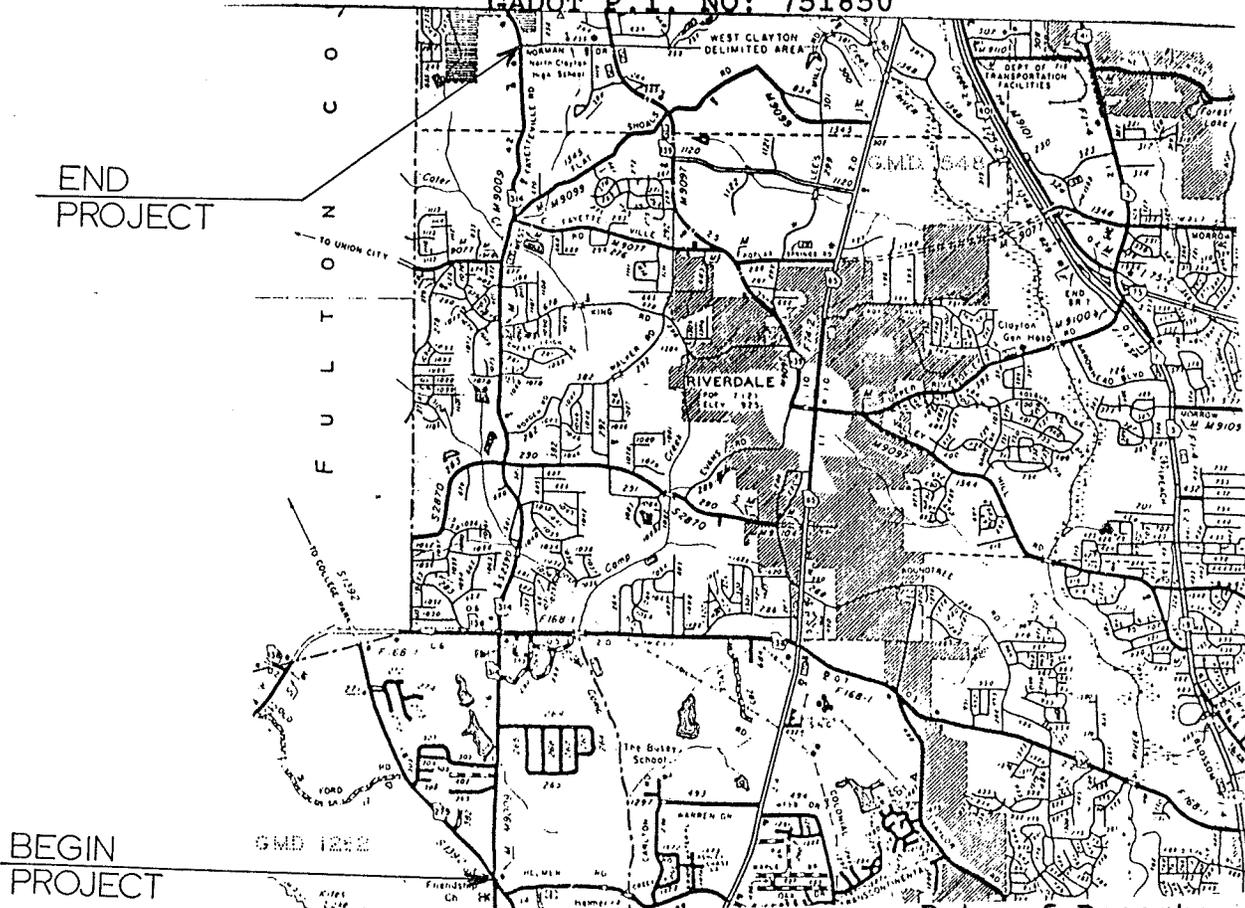


OFFICE OF ROAD AND AIRPORT DESIGN
PROJECT CONCEPT REPORT

MF9009 (11)

CLAYTON & FAYETTE COUNTY

FEDERAL ROUTE NO: NONE
STATE ROUTE NO: 314 [FAYETTEVILLE ROAD]
GADOT P. I. NO: 751850



Date of Report:
March 18, 1991

RECOMMENDATION FOR APPROVAL

March 22, 1991
DATE

Walker W. Scott
State Road & Airport Design Engineer

DATE

State Environmental Engineer

DATE

State Traffic & Safety Engineer

DATE

District Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE MR-9009(11) Fayette/Clayton
P.I. No. 751850

OFFICE Atlanta

DATE March 21, 1991

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

TO Robert Humphrey, Project Review Engineer

SUBJECT Concept Report

Attached is the concept report on the above project for your review and further handling.

WWS:PDP:bc
Attachments

- c: Ron Colvin, w/att
- Frank Danchetz, w/att
- Don Watson, w/att
- Van Etheridge, w/att
- Wayne Hutto

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

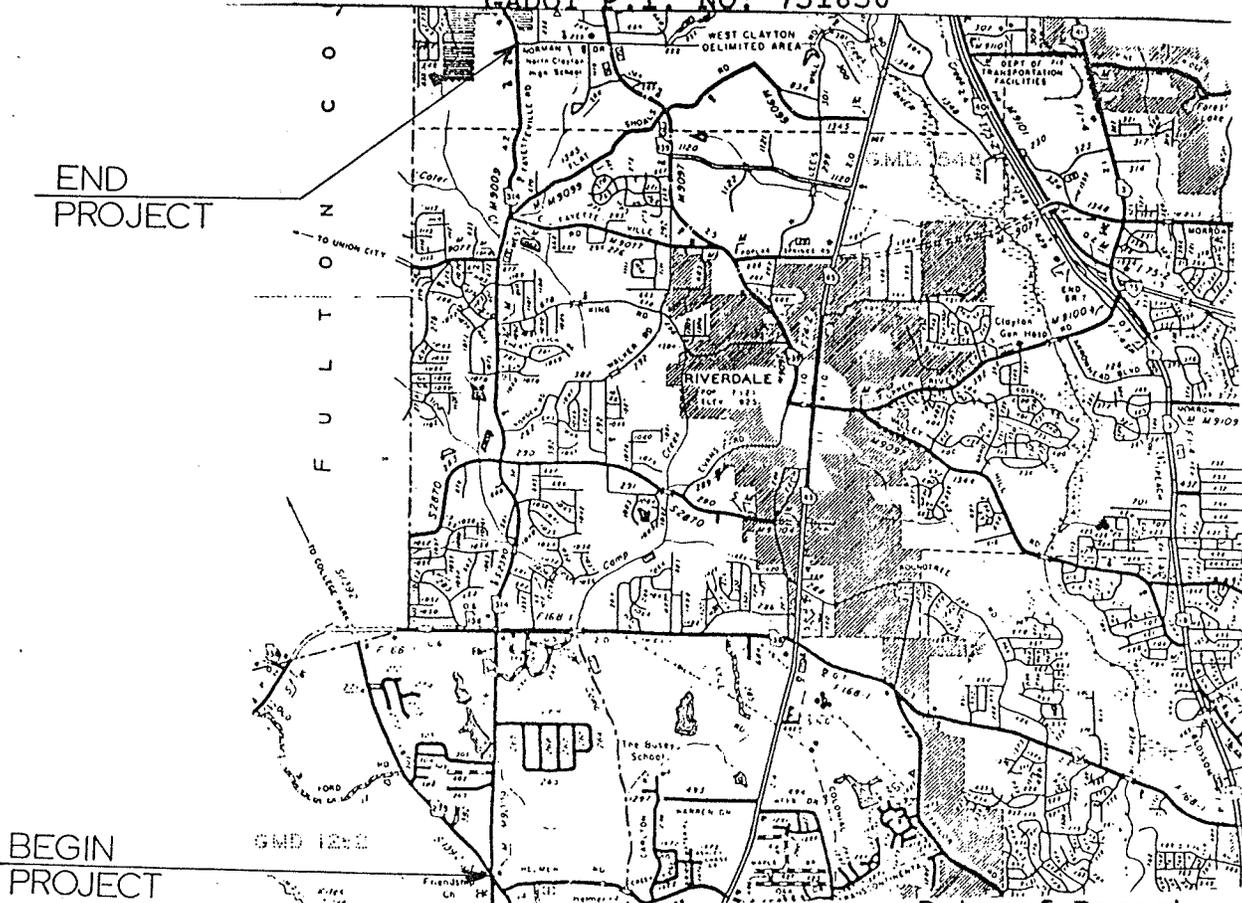


OFFICE OF ROAD AND AIRPORT DESIGN
PROJECT CONCEPT REPORT

MA9009 (11)

CLAYTON & FAYETTE COUNTY

FEDERAL ROUTE NO: NONE
STATE ROUTE NO: 314 [FAYETTEVILLE ROAD]
GADOT P.I. NO: 751850



Date of Report:
March 18, 1991

RECOMMENDATION FOR APPROVAL

March 22, 1991
DATE

Walter W. Scott
State Road & Airport Design Engineer

DATE

State Environmental Engineer

DATE

State Traffic & Safety Engineer

3-29-91
DATE

D. V. Etheridge
District Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE _____ OFFICE Thomaston
DATE March 29, 1991

FROM D. V. Etheridge, P.E., District Engineer
TO Robert Humphrey, Project Review Engineer

SUBJECT PROJECT CONCEPT REPORT
MR-9009 (11) Fayette/Clayton
P.I. No. 751850

Attached, for your use and further handling, is a signed copy of the Project Concept Report on the above project.

RGB:EJW

Attachment



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

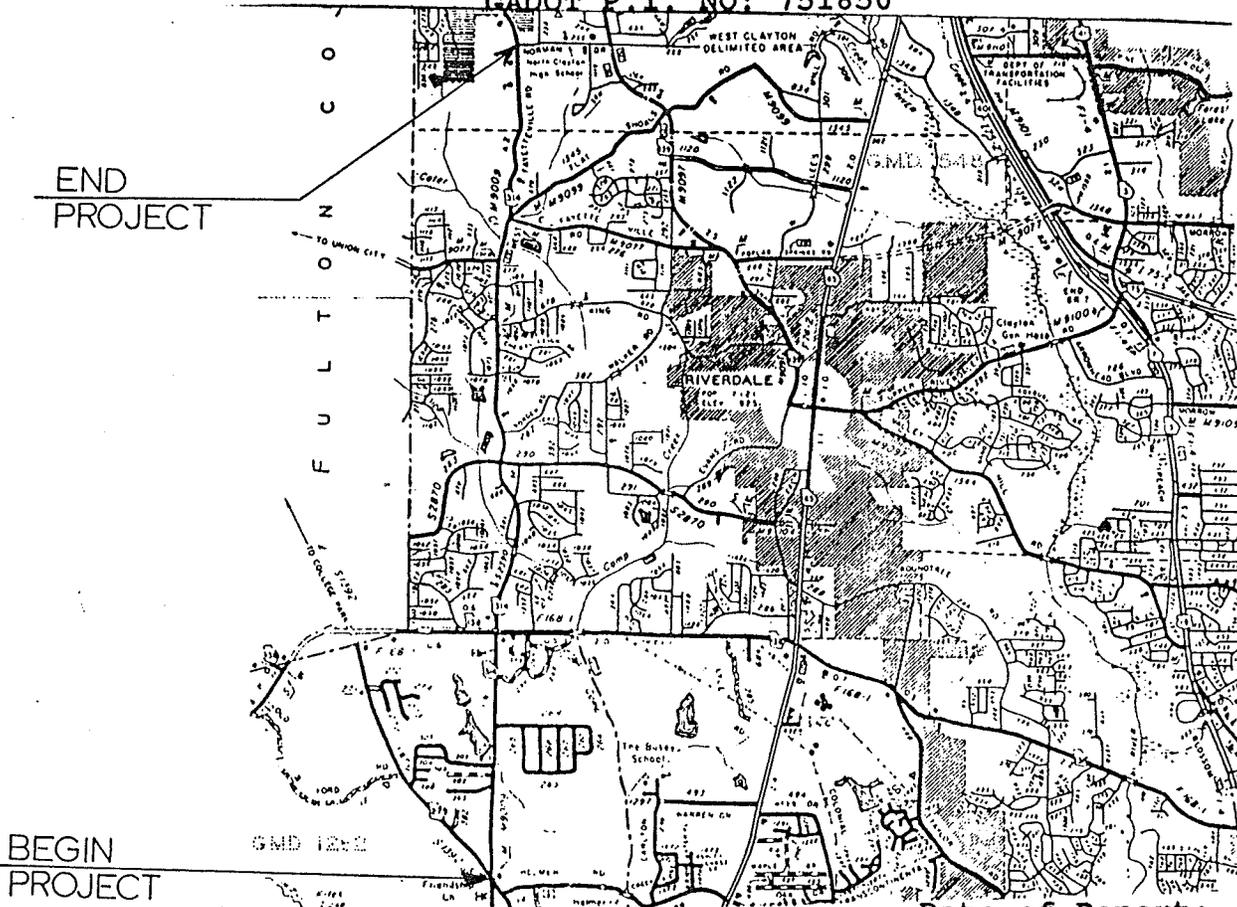


OFFICE OF ROAD AND AIRPORT DESIGN
PROJECT CONCEPT REPORT

MA-9009 (11)

CLAYTON & FAYETTE COUNTY

FEDERAL ROUTE NO: NONE
STATE ROUTE NO: 314 [FAYETTEVILLE ROAD]
GADOT P.I. NO: 751850



Date of Report:
March 18, 1991

RECOMMENDATION FOR APPROVAL

March 22, 1991
DATE Walker, W. Scott
State Road & Airport Design Engineer

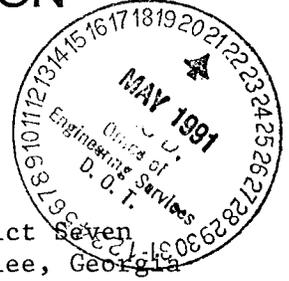
DATE _____
State Environmental Engineer

DATE _____
State Traffic & Safety Engineer

May 16, 1991
DATE Donald G. Waters
District Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE MR-9009(11)
Clayton/Fayette
P.I.# 751850

OFFICE District Seven
Chamblee, Georgia
DATE May 16, 1991

FROM Donald G. Watson, Metro District Engineer

TO Robert E. Humphrey, P.E., Project Review Engineer - Engineering Services

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the concept report on the above referenced project to widen and reconstruct 5.6 miles of S.R. 314/Fayetteville Road from S.R. 279/Old National Highway to Norman Drive.

The existing two lane roadway would be widened to a four lane rural section with a 20 foot raised median from S.R. 279 to S.R. 138. A four lane urban section with a 20 foot raised median is proposed from S.R. 138 to Norman Drive.

This project, along with project S.R. 2390(4) Fayette and project MR-9009(11) Clayton, will improve safety and provide the necessary operational capacity along this heavily traveled route. We find this report satisfactory for approval.

Sincerely,

Donald G. Watson
Metro District Engineer

BY: Danny H. Godwin
District Preconstruction Engineer

Attachment

xc: Walker Scott
Ron Colvin
Wayne Hutto

DGW:DHG:kmp



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

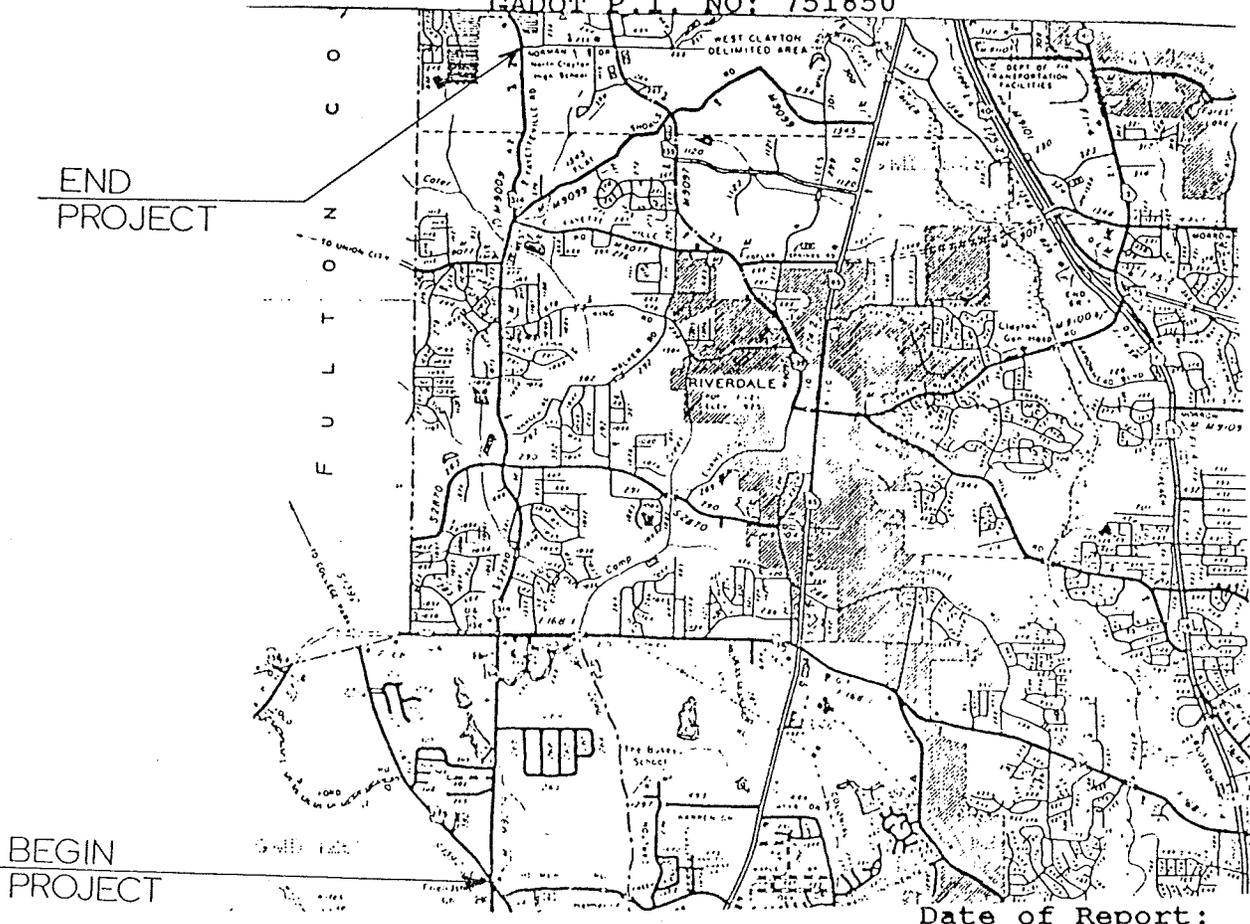


OFFICE OF ROAD AND AIRPORT DESIGN
PROJECT CONCEPT REPORT

MA79009(11)

CLAYTON & FAYETTE COUNTY

FEDERAL ROUTE NO: NONE
STATE ROUTE NO: 314 [FAYETTEVILLE ROAD]
GADOT P.I. NO: 751850



Date of Report:
March 18, 1991

RECOMMENDATION FOR APPROVAL

MARCH 22, 1991
DATE

Walker, W. Heath
State Road & Airport Design Engineer

DATE

State Environmental Engineer

4/9/91
DATE

Ken Colvin
State Traffic & Safety Engineer

DATE

District Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE MR-9009 (11)
Fayette/Clayton County
P.I. No. 751850

OFFICE Atlanta, Ga.
DATE April 8, 1991

FROM *[Signature]* Don 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 the proposed widening of S.R. 314 from Old National Highway to Norman Drive. The existing two lane roadway will be widened to a four lane section with a 20 ft. raised median. We believe this concept will improve safety and operational capacity along this section of roadway. We, therefore, find this report satisfactory for approval.

RC:CKE:lw
Attachment (signature page)
cc: Walker Scott; Don Watson

PROJECT CONCEPT REPORT

PAGE 2
P.I. NO: 751850

PROJECT NAME: West Fayetteville Road

PROJECT LOCATION & DESCRIPTION

Beginning SR 279, Old National Highway, in Fayette County and extending northwesterly 5.6 miles to Norman Drive , in Clayton County.

TRAFFIC

CURRENT

PROJECTED

YEAR
1996

AADT
17,250

YEAR
2016

AADT
27,600

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

Minor Road on Existing Location

Urban Arterial

PROJECT NEED & PURPOSE

To update safety and design characteristics. This road is part of a direct service route between the fast growing Fayetteville area and South-west Atlanta, College Park, which includes the Hartsfield-Atlanta International Airport.

EXISTING ROADWAY		
TYPICAL SECTION: 24 ft. asphaltic conc. with six ft. shoulders, rural roadway with some intersection improvements.		R/W WIDTH _____
POSTED SPEED <u>*55/50/40</u>	MAX DEGREE OF CURVE <u>12°</u>	MAX GRADE <u>9.89%</u>
MAJOR STRUCTURES:		
1. Triple 8'x8' Bridge Culvert (length - 49) (Width - 28)		
2.		
3.		
*SR 279 to SR 138 (55) SR 138 to Bethsaida Rd. (50) Bethesaida Rd. to Norman Dr. (40)		

PROPOSED ROADWAY		
TYPICAL SECTION: Rural - 4 lane with 20 ft. raised median and ten foot grassed shoulders, 4 ft. paved from SR 279 north to SR 138. Urban - 4 lane with 20 ft. raised median with curb and gutter left and right from SR 138 north to Norman Drive.		
DESIGN SPEED <u>45</u>	MAX DEGREE OF CURVE; ALLOWABLE: $45=8.75/50=6.75^\circ$ PROPOSED: <u>7°</u>	MAX GRADE; ALLOWABLE: $45=7.5\%/50=7\%$ PROPOSED: <u>7.5&7%</u>
MAJOR STRUCTURES:		
Triple 8'x8' Conc. Bridge Culvert		

PROPOSED RIGHT OF WAY	
R/W WIDTH <u>100-200</u>	DISPLACEMENTS RES.: <u>3</u> BUS.: <u> </u> M.H.: <u> </u>
TYPE OF ACCESS CONTROL: Driveway permit	

COORDINATION

CONCEPT TEAM MEETING DATE: January 15, 1991
LOCATION INSPECTION DATE: NONE
PERMITS REQUIRED (4f, COE, 404, etc.): 404
LEVEL OF PUBLIC INVOLVEMENT: Public Hearing
TIME SAVING PROCEDURES APPROPRIATE: No
OTHER PROJECTS IN THE AREA: SR-2390(4) Fayette; MR9009(12) Clayton

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION: Stage construction
LEVEL OF ENVIRONMENTAL ANALYSIS: Environmental Assessment
DESIGN VARIATIONS REQUIRED: None expected

UNDERGROUND STORAGE TANKS: N/A

HAZARDOUS WASTE SITES: N/A

ALTERNATIVES CONSIDERED

1. NO BUILD. Rejected as not meeting traffic demands.

ESTIMATED COST	
CONSTRUCTION: \$ 8,022,202.00	RIGHT-OF-WAY: \$ 2,445,000.00
E & C (10%): \$ 802,220.22	ACQUIRED BY: D.O.T.
INFLATION: \$ 1,604,440.40	UTILITIES: \$
	ADJUSTED BY: Utility Owners
TOTAL CONSTRUCTION COST: \$ 10,428,862	

COMMENTS: Plans for the northern half of this project could not be found. The Norman Drive intersection has high traffic volumes and will have capacity problems within twelve years. Traffic and Safety has approved a 50 mph speed design in Fayette County. A 45 mph speed design has been requested in Clayton County.

ATTACHMENTS: Cost Estimate, Typical Sections

September 24, 1985

PRELIMINARY COST ESTIMATE

1/2 E.
4 1/2 B.
8" GROUND DEEP

DATE 1-2-91
PROJECT NO. MR-9009(11) CLAYTON / FAYETTE CO.
P.I. NO. 751850
PROJECT DESCRIPTION EXISTING 24 FT. RURAL ROADWAY WITH

SAME INTERSECTION IMPROVEMENTS, BEGINNING AT SR-279, OLD NATIONAL
HWY. IN FAYETTE CO. AND EXTENDING NORTHWESTERLY 5.6 MILES TO NORMAN DR.
IN CLAYTON CO.

Urban
Rural

PROPOSED CONCEPT WIDENING & RESURFACING WITH A FOUR URBAN SECTION,
WITH RAISED MEDIAN FROM THE BEGINNING TO SR-138, SOUTH OF SR-138
A FOUR LANE RURAL SECTION WILL BE COMPLETED WITH RAISED MEDIAN.

EXISTING ROADWAY (If Applicable) _____
TRAFFIC: Existing 17,250 ADT (1996) Design 27,600 ADT (2016)

() PROGRAMMING PROCESS (/) CONCEPT DEVELOPMENT () DURING PROJECT DEVELOPMENT

PROJECT COSTS

A. RIGHT OF WAY

- 1. PROPERTY (Land and Easements) \$ _____
 - 2. DISPLACEMENTS \$ _____
 - 3. OTHER COSTS \$ _____
- SUBTOTAL \$ 2,445,000.00

B. REIMBURSABLE UTILITIES

- 1. RAILROAD \$ _____
 - 2. TRANSMISSION LINES \$ _____
 - 3. SERVICES \$ _____
- SUBTOTAL \$ _____

C. MAJOR STRUCTURES

- 1. WALLS \$ 10,800.00
 - 2. BRIDGE STREAM CROSSINGS \$ _____
 - 3. BRIDGE OVER/UNDERPASS \$ _____
 - 4. BOX CULVERTS \$ 171,890.00
- SUBTOTAL \$ 182,690.00

100' x 10'
CH = 740.00
500' x 10' = 5000.00

72 x 1.985 = 21.2
70 x 2.1772 = 915
5.06 = 166.02
583 = 11.4123

80 x 2.4915 = 33.46
80 x 257.93 = 20634.4
10.85 = 243.65
201 = 24.728

70 x 1.787 = 27.77
70 x 135.55 = 2678
8.12 = 198.72 = 146,013.60
605 = 20.698 = 25,884.18

APRON

D. GRADING AND DRAINAGE

1. EARTHWORK	\$	1,500,000 ⁰⁰
<i>500,000 x 3⁰⁰</i>		
2. DRAINAGE		
VALLEY GUTTER 200 X 22 X 26 ⁰⁰		114,400 ⁰⁰
a. Cross Drain Pipes (exc. box culverts)	\$	2,41,700 ⁰⁰
<i>24"-1850 (46) 30"-300 (6) 42"-300 (6) 48"-900 (8) 36"-1000 (10)</i>		
b. Curb and Gutter	\$	1,013,760 ⁰⁰
<i>42" 240 + 42" 240 + 16" 896 = 101,396 x 10⁰⁰</i>		
c. Longitudinal System (Incl. Catch Basins)	\$	793,640 ⁰⁰
<i>18,840 15" 7000 18" H.O.C.B. 50 D.I. 30 H.H.</i>		
<i>(370,800) + (141,840) + (175,000) (55,000) (39,000)</i>	\$	3,663,500 ⁰⁰
<i>2⁰⁰ 21⁰⁰ 1250" 110" 1300"</i>		
SUBTOTAL	\$	

E. BASE AND PAVING

1. AGGREGATE BASE 6" GRADED AGGR.	\$	666,400 ⁰⁰
<i>47,600 TONS x 14⁰⁰</i>		
2. ASPHALT PAVING - 2" ASPHALTIC CONC. BASE	\$	1,210,640 ⁰⁰
<i>32,720 TONS x 37⁰⁰</i>		
3. CONCRETE PAVING 1 1/2" ASPHALTIC CONC. E. 1200' 30 D.I.	\$	1,106,300 ⁰⁰
<i>19,300 TONS + 10,600 TON = 29,900 x 37⁰⁰</i>		
4. OTHER	\$	12,744 ⁰⁰
<i>7,820 Gal. f 6340 = 14,160 x 0.90</i>		
SUBTOTAL	\$	2,996,084 ⁰⁰

F. LUMP ITEMS

1. TRAFFIC CONTROL	\$	200,000 ⁰⁰
<i>200,000⁰⁰</i>		
2. CLEARING AND GRUBBING	\$	504,020 ⁰⁰
<i>34.91 + 156.73 = 916.4 Ac. x 5500⁰⁰</i>		
3. LANDSCAPING	\$	100,800 ⁰⁰
<i>5.6 x 18000⁰⁰</i>		
4. EROSION CONTROL	\$	134,400 ⁰⁰
<i>5.6 x 24000⁰⁰</i>		
5. DETOURS (Incl. Temp. Bridges)	\$	
SUBTOTAL	\$	939,220 ⁰⁰

G. MISCELLANEOUS

1. LIGHTING	\$	
<i>1</i>		
2. SIGNING - STRIPING	\$	168,000 ⁰⁰
<i>5.6 x 30,000⁰⁰</i>		
3. GUARDRAIL	\$	72,500 ⁰⁰
<i>5000 L.F. x 1150 + 20 Anchors x 750⁰⁰</i>		
4. OTHER	\$	
SUBTOTAL	\$	240,500 ⁰⁰

H. SPECIAL FEATURES

	\$	
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ESTIMATE SUMMARY

A. RIGHT OF WAY	\$	<u>2,445,000⁰⁰</u>
B. REIMBURSABLE UTILITIES	\$	<u> </u>

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$	<u>182,898⁰⁰</u>	
D. GRADING AND DRAINAGE	\$	<u>3,663,500⁰⁰</u>	
E. BASE AND PAVING	\$	<u>2,996,084⁰⁰</u>	
F. LUMP ITEMS	\$	<u>937,220⁰⁰</u>	
G. MISCELLANEOUS	\$	<u>240,500⁰⁰</u>	
H. SPECIAL FEATURES	\$	<u> </u>	
SUBTOTAL CONSTRUCTION COST	\$	<u>8,022,202⁰⁰</u>	Use 8,023,000
F. & C. (10%)	\$	<u>802,220⁰⁰</u>	
INFLATION (5% per year)	\$	<u>1,604,440⁰⁰</u>	
TOTAL CONSTRUCTION COST	\$	<u>10,428,862⁰⁰</u>	
GRAND TOTAL PROJECT COST	\$	<u>12,873,862⁰⁰</u>	