D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-441(13), Telfair/Wheeler Counties
P.I. No. 561470
Prev. Proj. No. EDS-441(8)

OFFICE Environment/Location

DATE August 17, 1988

FROM Frank L. Danchetz, P.E., State Environmental/Location Engineer

FLD

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

SUBJECT REVISED CONCEPT REPORT

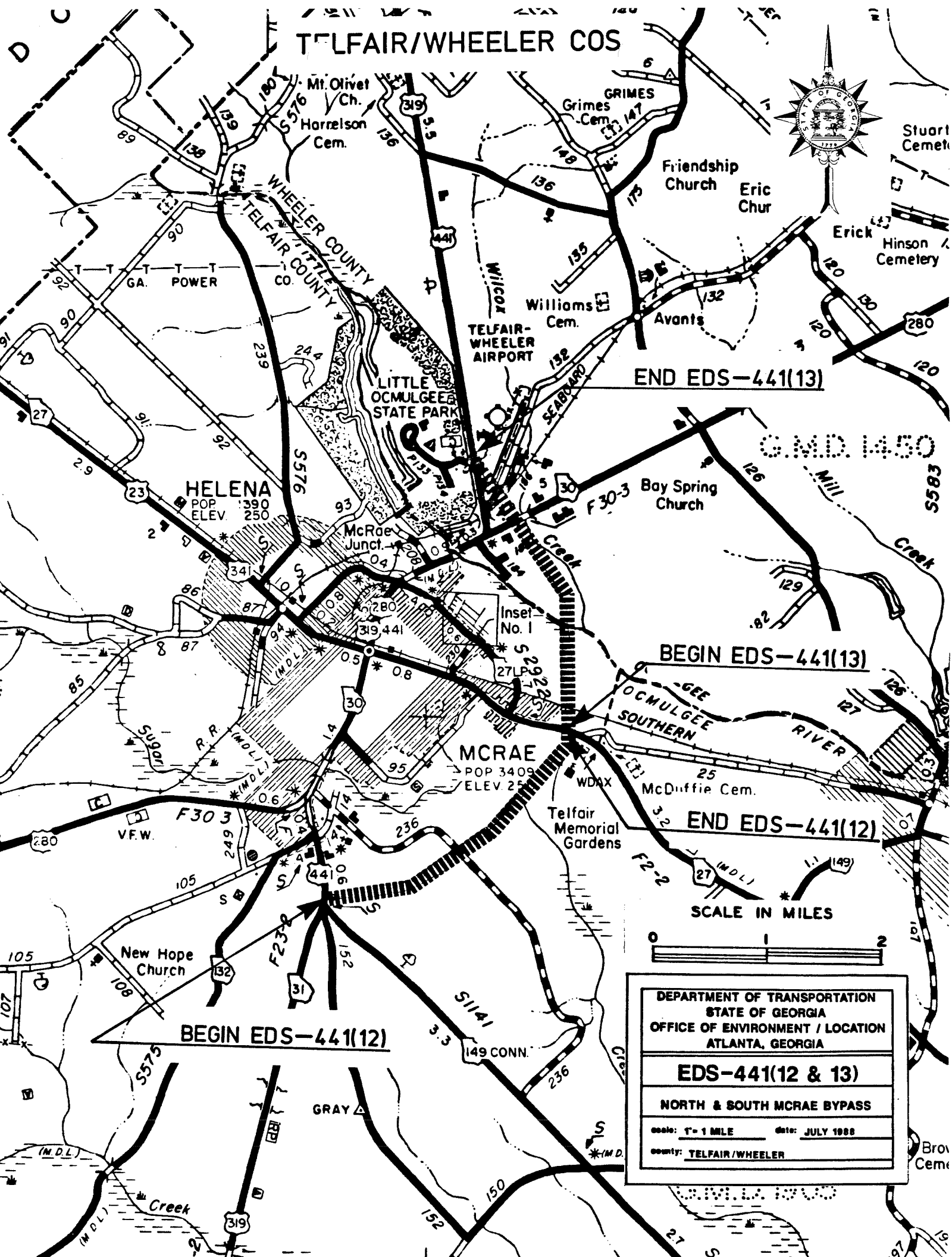
The attached concept report is a revision of the original concept report which was approved May 18, 1988. The original report has been revised to include widening a section of U.S. 341 between the end of Project GIP-TSAP-27(88), which is under construction through McRae, and the proposed North McRae Bypass. This change is recommended because the project to widen U.S. 341 between McRae and Lumber City, Project GIP-341(23), is scheduled for construction one year later than the North McRae Bypass. This would leave a 2 lane gap between the end of Project GIP-TSAP-27(88) and the bypass. It is proposed to widen U.S. 341 to 5 lanes through this section which will require a minimum of 130' of right-of-way. The limits would be from the end of the 5 lane presently under construction to the cemetery just east of the proposed bypass.

The concept report also includes an updated estimate for the bypass. If you have any questions, you can contact Jerry Hobbs at 699-4463.

FLD/JLH/sb

Attachment

cc: R.L. Alston
Walker Scott
Charles Lewis
Ron Colvin
William J. Durrence


TELFAIR/WHEELER COS
Mt. Olivet Ch.
Harrelson Cem.
GRIMES
Grimes Cem.
Friendship Church
Eric Chur
Erick
Hinson Cemetery
WHEELER COUNTY
TELFAIR COUNTY
GA. POWER CO.
Williams Cem.
Avants
TELFAIR-WHEELER AIRPORT
LITTLE OCMULGEE STATE PARK
SEABOARD
END EDS—441(13)
HELENA
POP 390
ELEV. 250
McRae Junct.
Bay Spring Church
Mill Creek
BEGIN EDS—441(13)
Inset No. 1
OCMULGEE SOUTHERN
OCMULGEE RIVER
MCRAE
POP 3409
ELEV. 25
WDAX
McDuffie Cem.
Telfair Memorial Gardens
END EDS—441(12)
Sugar R.R. (M.D.L.)
V.F.W.
New Hope Church
BEGIN EDS—441(12)
149 CONN.
GRAY
Creek
SCALE IN MILES
0 1 2
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT / LOCATION
ATLANTA, GEORGIA
EDS-441(12 & 13)
NORTH & SOUTH MCRAE BYPASS
scale: 1" = 1 MILE
date: JULY 1988
county: TELFAIR/WHEELER

PROJECT CONCEPT REPORT

DATE: 8/17/88

PROJECT NUMBER: EDS-441(13) COUNTY: Taylor/Wheeler

PROJECT NAME: North McRae Bypass

P.I. NUMBER: 561470 FEDERAL ROUTE NO: F-42-1 STATE ROUTE NO: _____

PROJECT LENGTH: Bypass 2.4 U.S. 341 0.6 BEGINNING: U.S. 341 east of McRae

ENDING: U.S. 441 near entrance to Little Ocmulgee Park

TRAFFIC: CURRENT (1990) 1200 to 2900 PROJECTED (2010) 2100 to 5100

PDP CLASSIFICATION: Major project on new location

FUNCTIONAL CLASSIFICATION: Rural principal arterial

PROJECT NEED: This is part of the economic development highway system

MAXIMUM ALLOWABLE MAXIMUM

DESIGN SPEED: 55 DEGREE OF CURVE: 2°-30' ALLOWABLE GRADE: 2.0%

EXISTING TYPICAL SECTION: New location and 2 lanes

PROPOSED TYPICAL SECTION: 4 lanes with a 44' grass median on bypass; 5 lanes on US 341

TYPE ACCESS: Partial limited on bypass; By permit on US 341

MAJOR STRUCTURES: 2 bridges over the Little Ocmulgee River

ESTIMATED COST:

BASE YEAR: 1988 INFLATION/YR: 5% ESTIMATE YEAR: 1990

CONSTRUCTION: $8,404,000

R/W: $ 507,000

UTILITIES: $140,000 (R.R.Xings only) TOTAL: $9,114,000

PROJECT CONCEPT REPORT

PROJECT NO.: EDS-441(3)

LEVEL OF ENVIRONMENTAL ANALYSIS: State Aid Environmental Impact Study

LEVEL OF PUBLIC INVOLVEMENT: Public hearing held May 26, 1988

TIME SAVING PROCEDURES APPROPRIATE: _____ **YES** ___X___ **NO**

DESIGN VARIATIONS REQUIRED: N/A

OTHER PROJECTS IN AREA: GIP-TSAP-27(88), under construction. EDS-341(23), Widening of US 341 between McRae and Lumber City.

CONCEPT TEAM MEETING DATE:

LOCATION INSPECTION DATE:

PERMITS REQUIRED (4f, COE 404, etc.): COE 404

NUMBER OF RELOCATIONS (HOUSES & BUSINESSES DISPLACED): 4 res., 1 comm. bldg.

OTHER ALTERNATES CONSIDERED: No Build

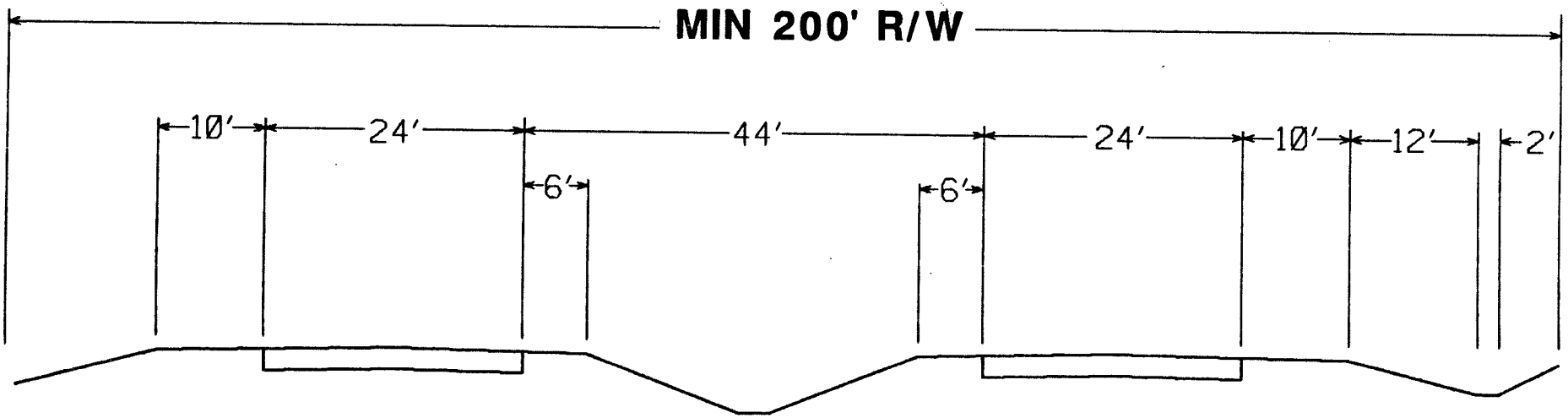
COMMENTS: This report revises the original report dated 2/3/87 which was approved on May 18, 1988. It now includes widening a section of U.S. 341 from the end of project GIP-TSAP-27(88), now under construction, to a point approximately 1000' S.E. of the intersection of U.S. 341 with the proposed bypass.

ATTACHMENTS:

TYPICAL SECTION XX

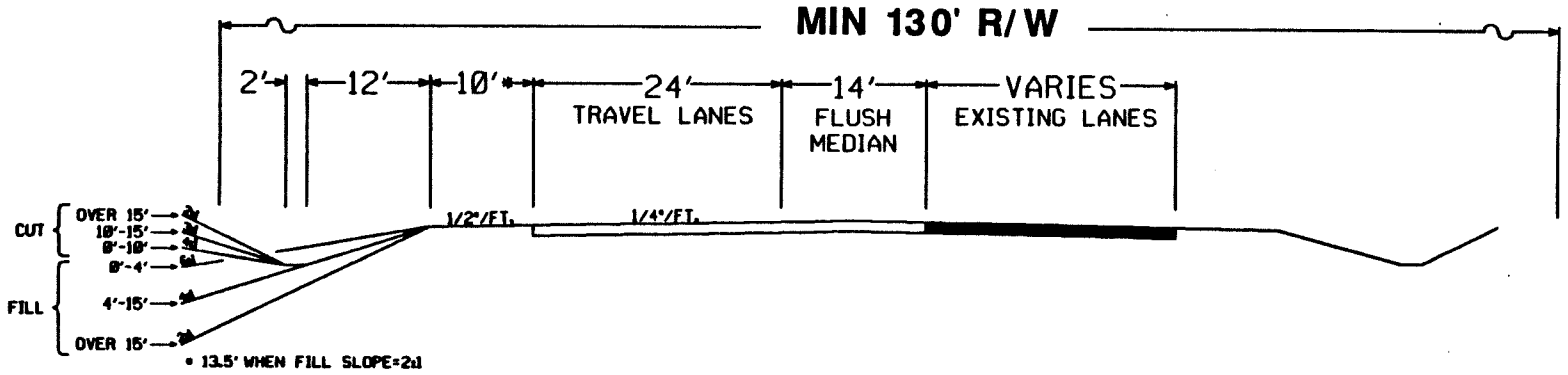
COST ESTIMATE XX

OTHER:



BYPASS

TYPICAL SECTION
4-LANE WITH 44' MEDIAN



TYPICAL CROSS SECTION

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 561470 REVISED: _

PROJECT NO: EDS-441(13) REVISED: _

PROJECT NAME: N. McRAE BYPASS REVISED: 08-15-1988

COUNTY: TELFAIR/WHEELER DATE: 02-03-87

PROJECT DESCRIPTION: WIDENING OF US 341 FROM THE END OF PROJ GIP-TSAP-27(88) TO 1000' EAST OF BYPASS

PROJECT LENGTH: 0.600 MILES

TYPICAL SECTION: RURAL WIDENING-2 TO 4 LANES WITH 14' FLUSH MEDIAN & 150' MIN R/W

EXISTING ROADWAY (If Applicable): 2 LANES

TRAFFIC:

INITIAL DESIGN YEAR: 1990 DAILY VOLUME (AADT): 4,500

FINAL DESIGN YEAR: 2010 DAILY VOLUME (AADT): 7,900

( )PROGRAMMING PROCESS (X)PRE-PROGRAMMING PROCESS ( )FEASIBILITY STUDY

COMMENTS: _

PREPARED BY: JLH

PROJECT COSTS

A. RIGHT-OF-WAY

1. PROPERTY (Land and Easements)	$ 10,000
2. DISPLACEMENTS	$ 0
3. OTHER COST	$ 5,000
SUBTOTAL	$ 15,000

B. REIMBURSABLE UTILITIES

1. RAILROAD	$ 0
2. TRANSMISSION LINES	$ 0
3. SERVICES	$ 0
SUBTOTAL	$ 0

C. MAJOR STRUCTURES

1. WALLS	$ 0
2. BRIDGE STREAM CROSSING	$ 0
3. BRIDGE OVER/UNDERPASS	$ 0
4. BOX CULVERTS	$ 0
SUBTOTAL	$ 0

D. GRADING AND DRAINAGE

1. EARTHWORK

a. UNCLASSIFIED EXCAVATION $ 23,100
13,200 CY @ $1.75 + 0 CY @ $0.00

b. BORROW EXCAVATION $ 0
0 CY @ $0.00

2. DRAINAGE

a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM) $ 20,400
0.600 MILES @ $34,000

b. CURB AND GUTTER $ 3,200
400 LF @ $8.00

SUBTOTAL $ 46,700

E. BASE AND PAVING

1. GRADED AGGREGATE BASE $ 76,553
8.00" — 6,337 T @ $12.08

2. ASPHALT PAVING

a. ASPHALTIC CONCRETE "E" $ 58,534
1.50" — 1,800 T @ $32.51

b. ASPHALTIC CONCRETE "B" $ 46,339
2.00" — 1,484 T @ $31.22

c. ASPHALTIC CONCRETE BASE $ 171,965
7.50" — 5,748 T @ $29.92

d. BITUMINOUS TACK COAT $ 2,084
2,637 G @ $0.79

3. CONCRETE PAVING $ 0

4. OTHER PAVING $ 35,547

SUBTOTAL $ 391,022

F. LUMP ITEMS

1. TRAFFIC CONTROL	$ 12,100
2. CLEARING AND GRUBBING 7 ACRES @ $4,700	$ 30,764
3. LANDSCAPING 0.600 MILES @ $12,000	$ 7,200
4. EROSION CONTROL 0.600 MILES @ $15,000	$ 9,000
5. DETOURS (INCL. TEMP. BRIDGES)	$ 0
SUBTOTAL	$ 59,064

G. MISCELLANEOUS

1. LIGHTING	$ 0
2. SIGNING/STRIPING 0.600 MILES @ $30,000	$ 18,000
3. GUARDRAIL 0 LF @ $10.25 + 0 ANCHORS @ $795	$ 0
4. OTHER 0.600 MILES @ $51,000	$ 30,600
SUBTOTAL	$ 48,600

H. SPECIAL FEATURES	$ 0

ESTIMATE SUMMARY

A. RIGHT-OF-WAY	$	15,000
B. REIMBURSABLE UTILITIES	$	0

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$	0
D. GRADING AND DRAINAGE	$	46,700
E. BASE AND PAVING	$	391,022
F. LUMP ITEMS	$	59,064
G. MISCELLANEOUS	$	48,600
H. SPECIAL FEATURES	$	0
SUBTOTAL CONSTRUCTION COST	$	545,385
INFLATION (5% per year)	$	55,902 2 yr(s)
E. & C. (10%)	$	54,539
TOTAL CONSTRUCTION COST	$	655,826

GRAND TOTAL CONSTRUCTION COST $ 670,826

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 561470 REVISED:

PROJECT NO: EDS-441(13) REVISED:

PROJECT NAME: NORTH McRAE BYPASS REVISED: 08-15-1988

COUNTY: TELFAIR/WHEELER DATE: 02-03-87

PROJECT DESCRIPTION: FORM US 341 EAST OF McRAE TO US 441 NEAR THE ENTRANCE TO LITTLE OCMULGEE STATE PARK

PROJECT LENGTH: 2.400 MILES

TYPICAL SECTION: RURAL NEW LOCATION-4-LANES WITH 44' MEDIAN & 200' MIN R/W

EXISTING ROADWAY (If Applicable):

TRAFFIC:

INITIAL DESIGN YEAR: 1990 DAILY VOLUME (AADT): 2,900

FINAL DESIGN YEAR: 2010 DAILY VOLUME (AADT): 5,100

( )PROGRAMMING PROCESS (X)PRE-PROGRAMMING PROCESS ( )FEASIBILITY STUDY

COMMENTS:

PREPARED BY: JLH

PROJECT COSTS

A. RIGHT-OF-WAY

1. PROPERTY (Land and Easements)	$ 152,000
2. DISPLACEMENTS	$ 195,000
3. OTHER COST	$ 208,000
SUBTOTAL	$ 555,000

B. REIMBURSABLE UTILITIES

1. RAILROAD	$ 140,000
2. TRANSMISSION LINES	$ 0
3. SERVICES	$ 0
SUBTOTAL	$ 140,000

C. MAJOR STRUCTURES

1. WALLS	$ 0
2. BRIDGE STREAM CROSSING	$ 2,880,000
3. BRIDGE OVER/UNDERPASS	$ 0
4. BOX CULVERTS	$ 0
SUBTOTAL	$ 2,880,000

D. GRADING AND DRAINAGE

1. EARTHWORK

a. UNCLASSIFIED EXCAVATION $ 441,000
252,000 CY @ $1.75 + 0 CY @ $0.00

b. BORROW EXCAVATION $ 0
0 CY @ $0.00

2. DRAINAGE

a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM) $ 196,800
2.400 MILES @ $82,000

b. CURB AND GUTTER $ 3,200
400 LF @ $8.00

SUBTOTAL $ 641,000

E. BASE AND PAVING

1. GRADED AGGREGATE BASE $ 402,878
8.00" — 33,351 T @ $12.08

2. ASPHALT PAVING
a. ASPHALTIC CONCRETE "E" $ 181,265
1.50" — 5,576 T @ $32.51

b. ASPHALTIC CONCRETE "B" $ 235,321
2.00" — 7,537 T @ $31.22

c. ASPHALTIC CONCRETE BASE $ 889,151
7.50" — 29,718 T @ $29.92

d. BITUMINOUS TACK COAT $ 7,594
9,613 G @ $0.79

3. CONCRETE PAVING $ 0

4. OTHER PAVING $ 171,621

SUBTOTAL $ 1,887,830

F. LUMP ITEMS

1. TRAFFIC CONTROL		$ 20,000
2. CLEARING AND GRUBBING	58 ACRES @ $4,700	$ 273,455
3. LANDSCAPING	2.400 MILES @ $51,000	$ 122,400
4. EROSION CONTROL	2.400 MILES @ $48,000	$ 115,200
5. DETOURS (INCL. TEMP. BRIDGES)		$ 0
	SUBTOTAL	$ 531,055

G. MISCELLANEOUS

1. LIGHTING		$ 0
2. SIGNING/STRIPING	2.400 MILES @ $37,000	$ 88,800
3. GUARDRAIL	1,800 LF @ $10.25 + 12 ANCHORS @ $795	$ 27,990
4. OTHER	2.400 MILES @ $161,000	$ 386,400
	SUBTOTAL	$ 503,190

H. SPECIAL FEATURES $ 0

ESTIMATE SUMMARY

A. RIGHT-OF-WAY	$	555,000
B. REIMBURSABLE UTILITIES	$	140,000

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$	2,880,000
D. GRADING AND DRAINAGE	$	641,000
E. BASE AND PAVING	$	1,887,830
F. LUMP ITEMS	$	531,055
G. MISCELLANEOUS	$	503,190
H. SPECIAL FEATURES	$	0
SUBTOTAL CONSTRUCTION COST	$	6,443,075
INFLATION (5% per year)	$	660,415 2 yr(s)
E. & C. (10%)	$	644,307
TOTAL CONSTRUCTION COST	$	7,747,797

GRAND TOTAL CONSTRUCTION COST $ 8,442,797