

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(28) Appling County
P.I. No. 522300

OFFICE Preconstruction
DATE August 13, 1992

FROM *CWH/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:

John Lively
Bob Humphrey
David Studstill
Herman Griffin
George Boulineau
Darrell Elwell
Ron Colvin
Roland Hinners
Paul Liles
Ronald Davis

D.O.T. 66

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(28) Appling County OFFICE Preconstruction
 P.I. No. 522300 DATE August 6, 1992

FROM Hoyt J. Lively, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT APPROVAL

This project is the widening and reconstruction of SR 4/US 1 in Appling County, from the Bacon County line to Spear Street in Baxley. The existing roadway consists of two lanes rural section with 4' shoulders. Major structures existing within the project limits are (1) a triple 10' x 5' bridge culvert; (2) a 180' x 27.8' bridge; and (3) a 120' x 27.8' bridge. The base year traffic (1997) is 3,300 - 15,400 VPD and the design year traffic (2017) is 4,900 - 23,400 VPD. Traffic will be maintained on the existing road during construction.

The proposed project will consist of (1) widening on the east side from Bacon County to CR 90/Stock Yard Road, for an additional two lanes rural section with a 44' median and 10' shoulders (2' paved inside and 4' paved outside); (2) widening on the east side from CR 90 to Forest Avenue for an additional three lanes---two 12' lanes and a 14' flush median with 10' shoulders (4' paved); and (3) widening symmetrically from Forest Avenue to Spear Street for a five lane urban section---four 12' lanes with a 14' flush median and 10' shoulders.

The major structures will be widened to accommodate the new roadway as follows: (1) the triple 10' x 5' culvert will be extended 68'; (2) the 180' x 27.8' bridge will be widened 10.2' and a 180' x 41.3' bridge will be constructed adjacent to the existing bridge; and (3) the 120' x 27.8' bridge will also be widened 10.2' and a 120' x 41.3' bridge will be constructed adjacent to the existing bridge. Additional rights-of-way will be required.

Environmental concerns include: a COE 404 permit to be required due to wetlands; an Environmental Assessment document will be prepared; 22 displacements---12 residences, 2 mobile homes, 2 double-wides, 6 commercial; possible 9 USTs; a public hearing will be offered; time saving procedures are not appropriate.

Wayne Shackelford
Page 2
August 6, 1992

EDS-545(20) Appling County

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE
Construction (includes E&C and inflation)	\$13,076,305	\$ 9,784,000	FY 95 1995
Right-of-Way	\$ 4,093,000	\$ 440,000	
Utilities	LGPA*	No Est	

*Requested Appling County to sign LGPA for utilities on 3-23-92. Baxley signed LGPA for utilities on 4-14-92.

I recommend this project concept report be approved.

HJL:TMR/cj

Attachment

CONCUR

G. C. Lewis
G. C. Lewis, State Highway Engineer

APPROVE

Wayne Shackelford
Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION RECEIVED
STATE OF GEORGIA

MAY 29 1992

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545 (28) Appling County **OFFICE** Atlanta, Georgia
 P.I. No. 522300
 US 1/SR 4 Improvements 9.1 Miles **DATE** May 28, 1992

FROM Robert E. Humphrey, Project Review Engineer *REHcom*

TO Hoyt J. Lively, Jr., Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

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

We have received signed cover sheets from the following offices:

Bridge Design

Traffic and Safety

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$10,337,000
Inflation (5% per year) x 3 yrs.	1,550,550
E & C (10%)	1,188,755
Preliminary Engineering (5%)	516,850
Right of Way	---
Utilities	---

BDM/jmf

Attachments

c: David Studstill

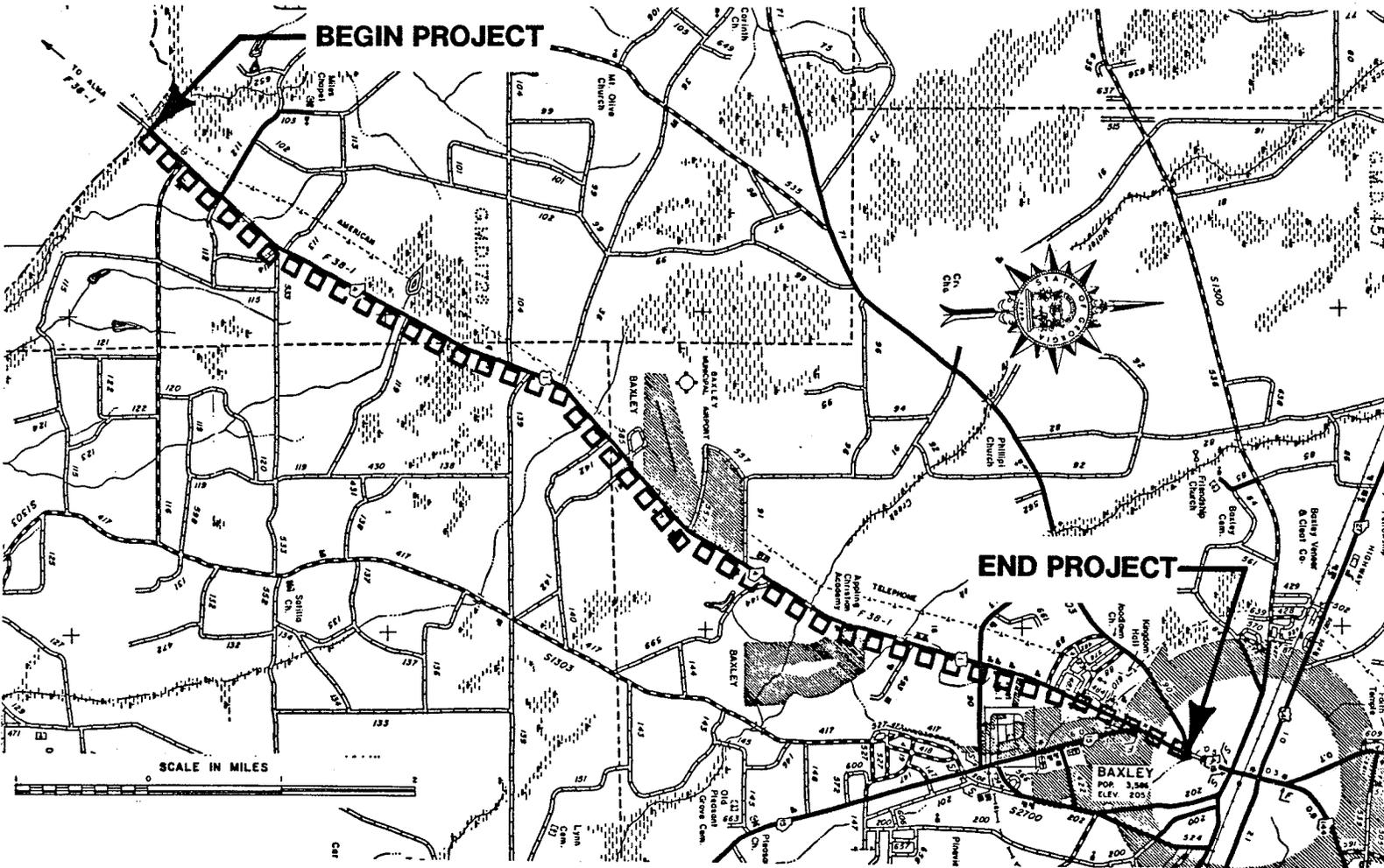
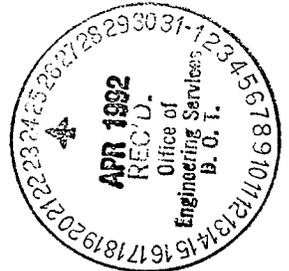


OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT

Project Number:
County:
P.I. Number:
Federal Route Number:
State Route Number:

EDS-545 (28)
APPLING
522300
US 1 (F-38-1)
SR 4



RECOMMENDATION FOR APPROVAL:

9/21/92
DATE

[Signature]
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE

STATE ROAD AND AIRPORT DESIGN ENGINEER

DATE

STATE TRAFFIC AND SAFETY ENGINEER

DATE

STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE

DISTRICT ENGINEER / JESUP

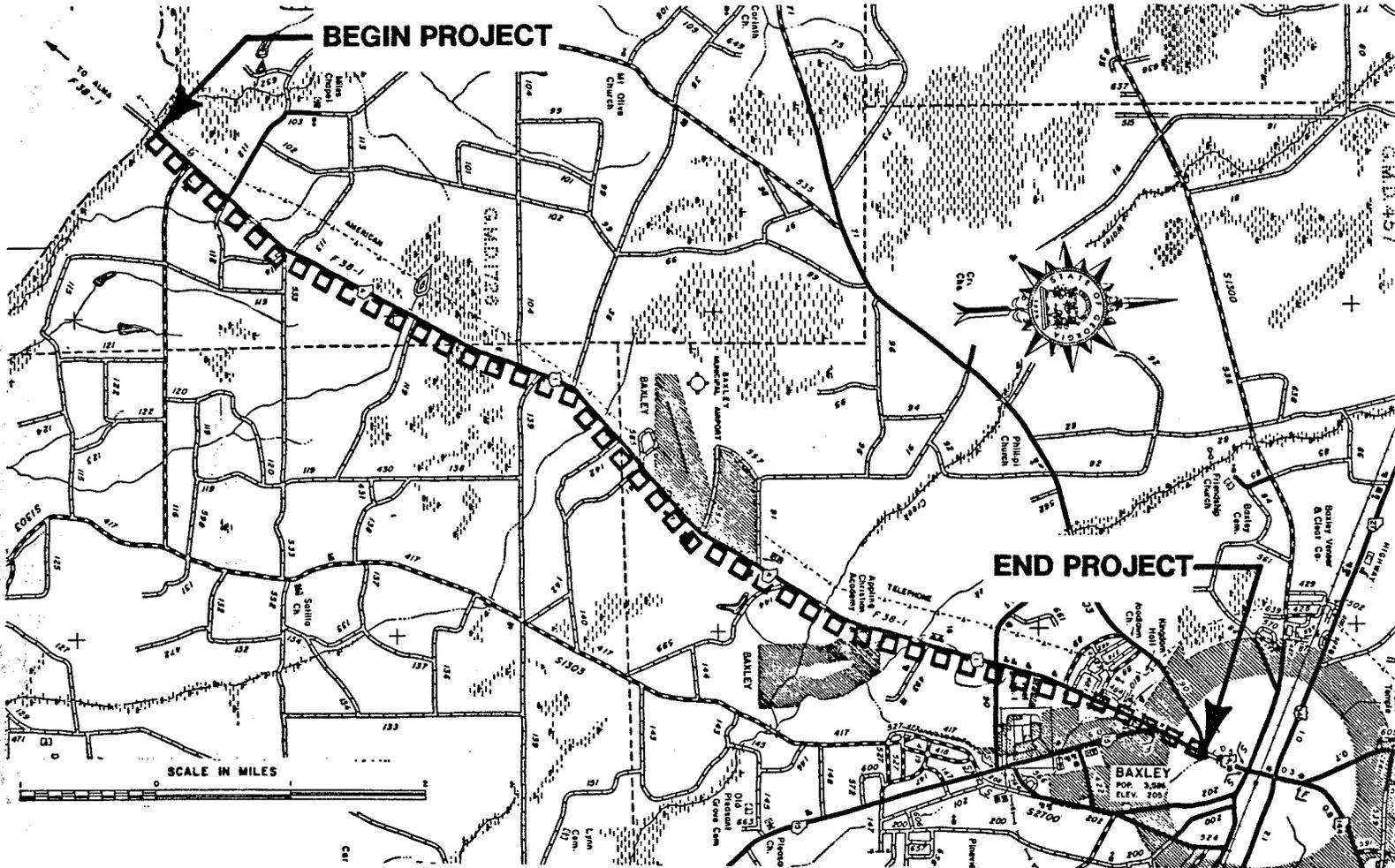
OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number:
County:
P.I. Number:
Federal Route Number:
State Route Number:

EDS-545 (28)
APPLING
522300
US 1 (F-38-1)
SR 4



RECOMMENDATION FOR APPROVAL:

9/21/92
DATE

[Signature]
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE

STATE ROAD AND AIRPORT DESIGN ENGINEER

DATE

STATE TRAFFIC AND SAFETY ENGINEER

5/15/92
DATE

[Signature]
STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE

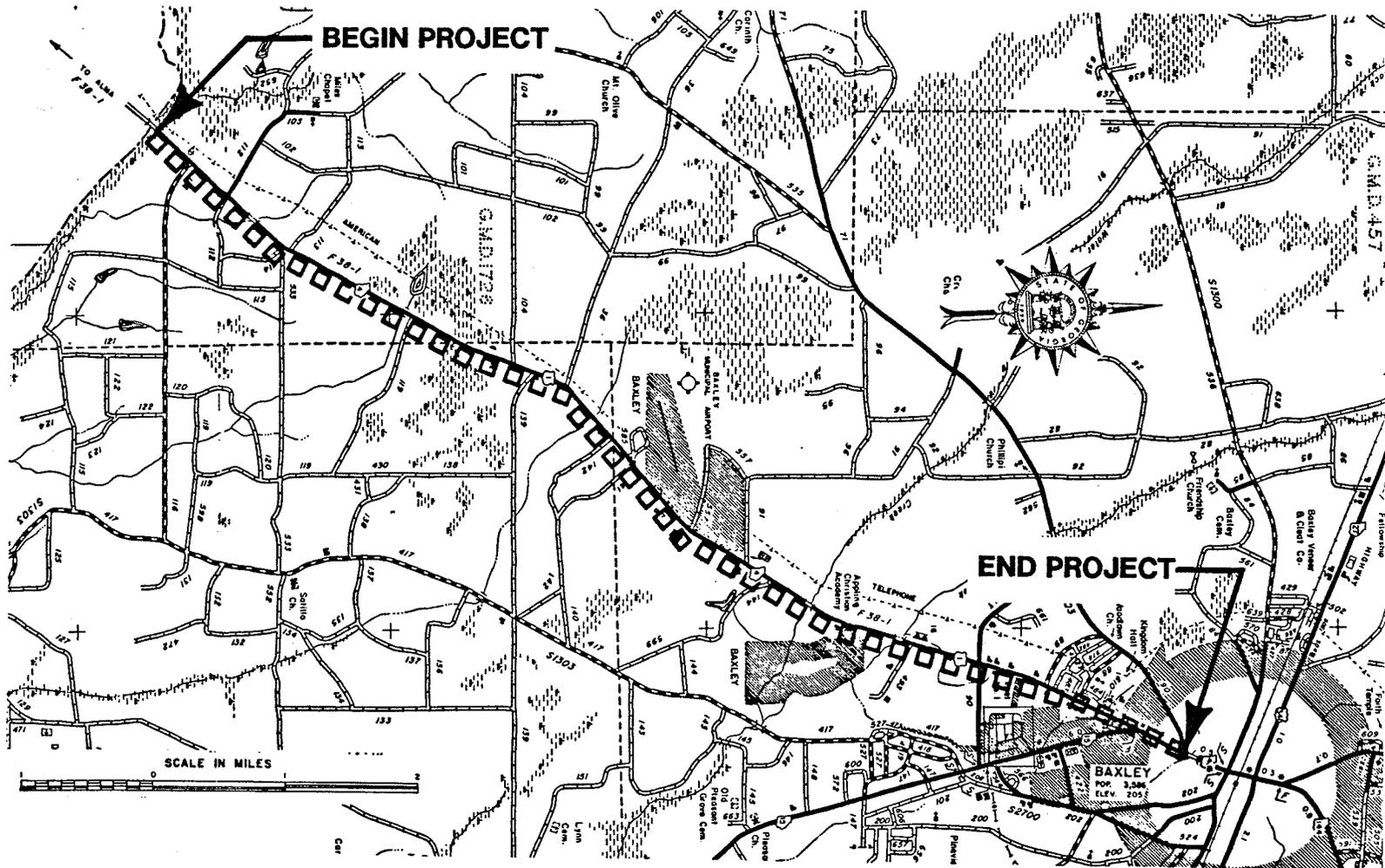
DISTRICT ENGINEER / JESUP

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number:	<u>EDS-545 (28)</u>
County:	<u>APPLING</u>
P.I. Number:	<u>522300</u>
Federal Route Number:	<u>US 1 (F-38-1)</u>
State Route Number:	<u>SR 4</u>



RECOMMENDATION FOR APPROVAL:

9/21/92
DATE

[Signature]
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE
May 1st 1992
DATE

STATE ROAD AND AIRPORT DESIGN ENGINEER
[Signature]
STATE TRAFFIC AND SAFETY ENGINEER

DATE

STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE

DISTRICT ENGINEER / JESUP

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545 (28) OFFICE Atlanta, Ga.
Appling County
P.I. No. 522300 DATE April 30, 1992

FROM *RC* 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 reconstructing U.S. 1/S.R. 4 from the Bacon/Appling County Line northeasterly 9.1 miles to Spear Street in Baxley. Design speed is 55 MPH.

From the beginning of the project to C.R. 90, near Baxley, two additional lanes with a 44 ft. divided median will be added to east side of the existing roadway. From C.R. 90 to Forest Avenue the existing two lanes will be widened to a five lane rural section with a 14 ft. flush median. From Forest Avenue to Spear Street the existing multi-lane roadway will be widened to a five lane urban section with a 14 ft. flush median.

We note this project requires 2.4 percent of the existing alignment to be reconstructed due to sub-standard vertical alignment.

The report indicates this project is part of the U.S. 1/S.R. 4 growth corridor which will extend from the Georgia/Florida border north to Augusta.

We believe the improvements will provide for safety and operational capacity. Approval is recommended.

RC:LEO:lw

Attachment (signature page)

cc: David E. Studstill, State Environmental/Location Engineer
Ronald "Bo" Davis, District Engineer - Jesup

PROJECT DESCRIPTION

EDS-545 (28)
APPLING COUNTY
P.I. # 522300

APRIL 9, 1992

EDS-545(28) begins at the Bacon/Appling County line and extends northeasterly 9.1 miles to Spear St. in Baxley. From the beginning of the project to CR 90, near Baxley, two additional lanes with a 44' divided median will be added to the east side of the existing roadway. Proposed minimum additional R/W is 116'. Median crossovers are proposed at CR 116, CR 112, CR 119, CR 104, CR 36, CR 557, CR 91, CR 493. CR 533 and CR 113 will be realigned to intersect SR 4 at the same location with a median cross-over. CR 141 and CR 585 will be realigned to intersect SR 4 at the same location with a median cross-over. CR 144 will be realigned to intersect SR 4 closer to a 90° angle with a median cross-over.

From CR 90 to Forest Ave. the existing two lanes will be widened to five lanes rural with a 14' flush median. The new lanes will be added east of the existing roadway. Proposed minimum additional R/W is 76'. CR 90/Stock Yard Rd. will be realigned slightly to intersect SR 4 at the same location. From Forest Ave. to Spear St. the existing multi-lane roadway will be widened to five lanes urban with a 14' flush median. The widening will be symmetrical to First St. then shift to the east side of the existing roadway to miss two historic structures north of Crower St. The alignment will then shift back symmetrical at Tollison ST. The proposed minimum additional R/W is 30'. SR 15 in Baxley will be realigned to intersect SR 4 at Second St. This realignment will provide a safer intersection for school buses.

PROJECT CONCEPT REPORT

DATE: APRIL 23, 1992

PROJECT NUMBER: EDS-545(28)

COUNTY: APPLING

PROJECT NAME: SR 4 / US 1 IMPROVEMENTS

P.I. NUMBER: 522300 U.S. ROUTE NO: 1 STATE ROUTE NO: 4

LOCATION

BETWEEN BACON COUNTY AND SPEAR ST. IN BAXLEY LENGTH = 9.1 MILES

TRAFFIC

CURRENT

PROJECTED

<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>
<u>1997</u>	<u>3300-15,400</u>	<u>2017</u>	<u>4900-23,400</u>

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

MAJOR ROADWAY WIDENING & RECONSTRUCTION

MAJOR RURAL ARTERIAL

EXISTING TYPICAL SECTION

2 LANES RURAL WITH MINIMUM 60' EXISTING R/W. SHOULDERS: 4' GRASS L & R

<u>POSTED SPEED</u>	<u>MAX EXIST DEGREE OF CURVE</u>	<u>MAX EXIST GRADE</u>
<u>55 MPH</u>	<u>2°00'</u>	<u>2.780%</u>

EXISTING MAJOR STRUCTURES

<u>P. RTG</u>	<u>S. RTG</u>	<u>FEATURES INTERSECTED</u>	<u>LENGTH</u>	<u>WIDTH</u>
<u>1032</u>	<u>86.3</u>	<u>BIG SATILLA CR. TRIB.</u>	<u>TRIPLE 10 x 5 BR CULVERT</u>	
<u>1058</u>	<u>82.8</u>	<u>BLACK WATER CREEK</u>	<u>180'</u>	<u>27.8</u>
<u>1044</u>	<u>82.8</u>	<u>SWEET WATER CREEK</u>	<u>120'</u>	<u>27.8</u>

PROJECT NEED: THIS PROJECT IS PART OF THE US 1 / SR 4 GROWTH CORRIDOR WHICH WILL EXTEND FROM THE GEORGIA/FLORIDA BORDER NORTH TO AUGUSTA. THE PROJECT IS NEEDED FOR PRESENT AND FUTURE ECONOMIC GROWTH IN THIS LARGELY RURAL AREA AND FOR THE FLOW OF GOODS & SERVICES BETWEEN ALREADY DEVELOPED AREAS. THE EXISTING TWO-LANE FACILITY REQUIRES IMPROVEMENT IF LARGE TRUCKS ARE TO SERVE THE AREA.

PROJECT CONCEPT REPORT

PROJECT NUMBER: EDS-545 (28)

PROPOSED TYPICAL SECTION

ADD 2 LANES PARALLEL TO THE EXISTING 2 LANE FACILITY WITH A 44' DIV. MED.
BETWEEN BACON CO. LINE AND CR 90/STOCK YARD RD. WIDEN EXISTING 2 LANES TO
5 LANES WITH A 14' FLUSH MED. RURAL, BETWEEN CR 90 AND FOREST AVE. WIDEN
EXISTING ROADWAY TO 5 LANES WITH A 14' FLUSH MED. URBAN, BETWEEN FOREST AVE.
AND SPEAR ST. SEE DESCRIPTION AND TYPICAL SECTIONS FOR MORE DETAIL.

<u>DESIGN SPEED</u>	<u>MAX DEGREE OF CURVE</u>	<u>MAX GRADE</u>
<u>55</u>	<u>ALLOWABLE: 4°30'</u> <u>PROPOSED: 2°00'</u>	<u>ALLOWABLE: 4.500%</u> <u>PROPOSED: 2.780%</u>

MAJOR STRUCTURES

EXTEND TRIPLE 10 x 5 BRIDGE CULVERTS 68'
1-NEW BRIDGE AT BLACK WATER CREEK - 180' x 41.3'
1-NEW BRIDGE AT SWEET WATER CREEK - 120' x 41.3'
1-BRIDGE WIDENING AT BLACK WATER CREEK - 180' x 10.2'
1-BRIDGE WIDENING AT SWEET WATER CREEK - 120' x 10.2'

TYPE ACCESS: BY PERMIT

TRAFFIC CONTROL DURING CONSTRUCTION: TRAFFIC WILL BE MAINTAINED ON EXISTING
US 1 AND CROSS ROADS DURING CONSTRUCTION

ESTIMATED COST

<u>CONSTRUCTION: \$ 10,309,000</u>	<u>RIGHT-OF-WAY: \$ 4,093,000</u>
<u>E&C (10%): \$ 1,031,000</u>	<u>ACQUIRED BY: DOT</u>
<u>INFLATION: \$ 1,787,000</u>	<u>UTILITIES: \$ N/A</u>
<u>3 yrs at 5% per year</u>	<u>ADJUSTED BY: LGPA</u>
<u>TOTAL CONST. COST: \$ 13,127,000</u>	

DISPLACEMENTS: 12 RESIDENTS, 2 MOBILE HOME, 2 DOUBLE-WIDES, 6 COMMERCIAL

LEVEL OF ENVIRONMENTAL ANALYSIS: AN "EA" DOCUMENT WILL BE PREPARED

LEVEL OF PUBLIC INVOLVEMENT: A PUBLIC HEARING WILL BE HELD

TIME SAVING PROCEDURES APPROPRIATE: NO

DESIGN VARIATIONS REQUIRED: NONE KNOWN OF AT THIS TIME

PROJECT CONCEPT REPORT

PROJECT NUMBER: EDS-545(28)

OTHER PROJECTS IN AREA: EDS-545(27) BACON,
MLP-4(99) APPLING - UNDER CONSTRUCTION

CONCEPT TEAM MEETING DATE: FEBRUARY 18, 1992

LOCATION INSPECTION DATE: NOT SCHEDULED

PERMITS REQUIRED: A COE 404 WILL BE REQUIRED (WETLAND IMPACTS = 14 ACRES)

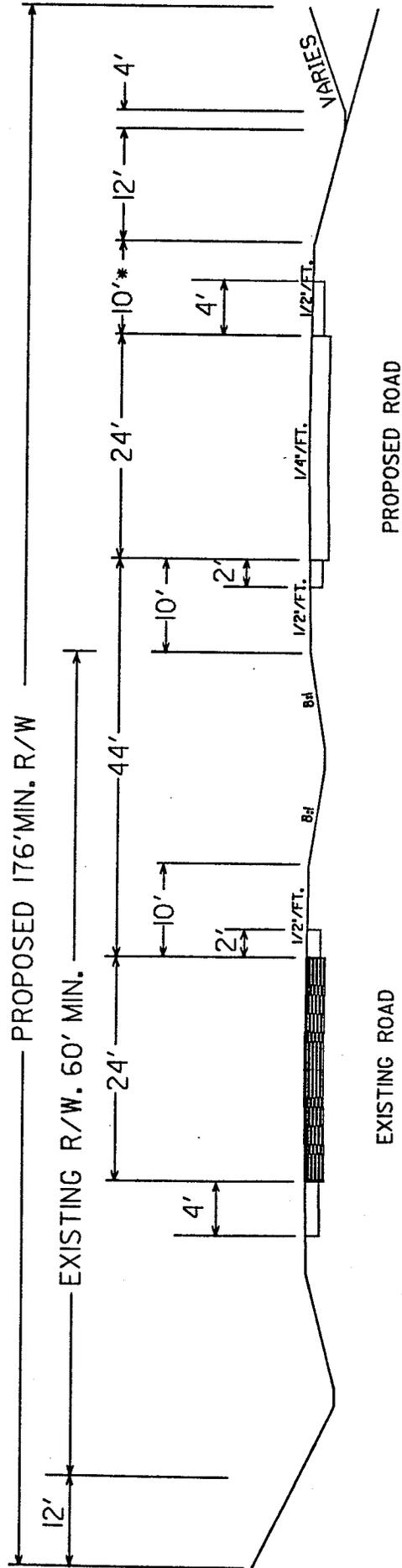
UNDERGROUND STORAGE TANKS: POSSIBLY 9 SITES

HAZARDOUS WASTE SITES: NONE KNOWN OF AT THIS TIME

OTHER ALTERNATES CONSIDERED: 1) WIDEN TO THE WEST SIDE OF THE EXISTING
ROADWAY BETWEEN BACON COUNTY AND CR 90. THIS WOULD RESULT IN MORE
DISPLACEMENTS, INCLUDING A CEMETERY AND MORE WETLAND IMPACTS.

COMMENTS: THIS PROJECT REQUIRES 2.4% OF THE EXISTING ALIGNMENT TO BE
RECONSTRUCTED DUE TO SUB-STANDARD VERTICAL ALIGNMENT.

ATTACHMENTS: COST ESTIMATE
PROJECT DESCRIPTION
TYPICAL SECTIONS
CONCEPT MEETING MINUTES

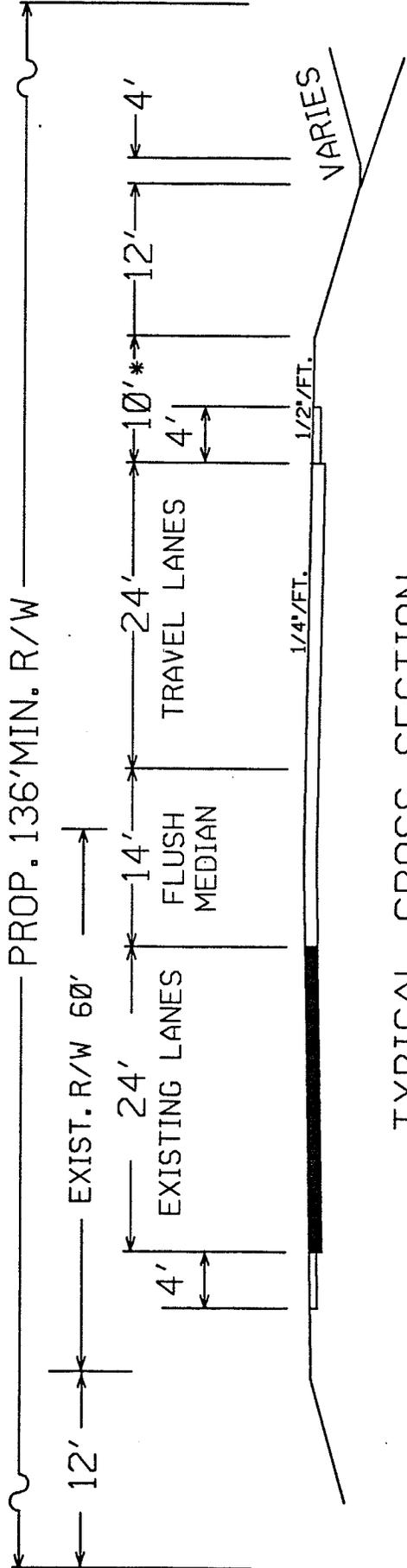


• 5.5' WHEN FILL SLOPE=2:1

TYPICAL CROSS SECTION
 EDS-545(28), APPLING COUNTY
 US 1 / S.R. 4

(THIS SECTION APPLIES: BACON CO. LINE TO C.R. 90)

NOT TO SCALE



TYPICAL CROSS SECTION

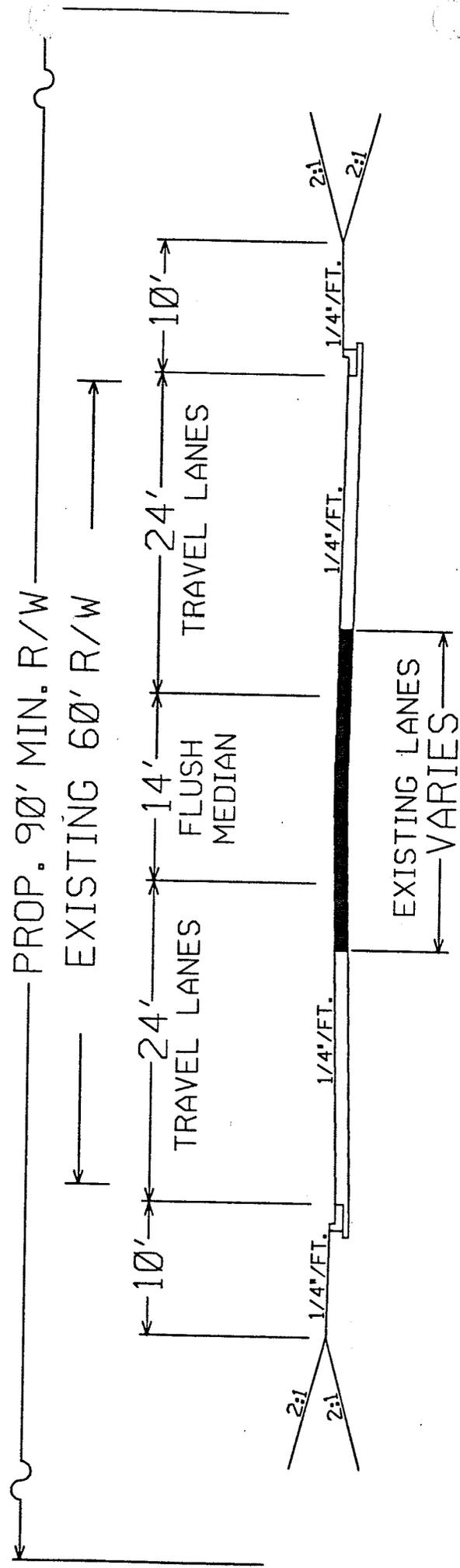
EDS-545(28), APPLING COUNTY

US 1 / S.R. 4

(THIS SECTION APPLIES: C.R. 90 TO FOREST AVE.)

NOT TO SCALE

• 15.5' WHEN FILL SLOPE=2:1



TYPICAL CROSS SECTION

EDS-545(28), APPLING COUNTY
 US 1 / S.R. 4

(THIS SECTION APPLIES: FOREST AVE. TO SPEAR ST.)

NOT TO SCALE