

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-500(6); (4) Bartow, Cherokee, Forsyth Cos OFFICE Preconstruction  
P.I. Nos. 662200; 662450  
DATE May 14, 1990

FROM *JB* J. B. Johnson, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL - I-75 TO SR 371

Attached for your files is the approval for subject project. The concept report cover letter is clarified by adding, "the existing interchange at I-575/SR 5 Bus. Conn. would be reconstructed for Alternate A only.

JBJ/se

Attachment

DISTRIBUTION:

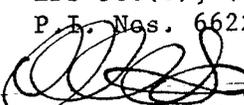
Charles Lewis  
Robert E. Humphrey  
Frank Danchetz  
Gene Skeen  
Walker Scott  
Herman Griffin  
Ron Colvin  
Felton Rutledge

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-500(6); (4) Bartow, Cherokee, Forsyth Cos OFFICE Preconstruction  
P. L. Nos. 662200; 662450

DATE May 1, 1990

FROM  William J. "Juan" Durrence, Director of Preconstruction

TO Hal Rives, Commissioner

SUBJECT I-75 TO SR 371 - PROJECT CONCEPT REPORT

This project is the construction of a rural multilane limited access facility from I-75, north of Cartersville in Bartow County, easterly on new location to SR 371 in Forsyth County. The typical section will have 4-12' lanes (2 each direction) with a 102' depressed grassed median. Inside median shoulders will be 10' (4' paved) and outside shoulders will be 14' (10' paved). Minimum right-of-way width will be 400'. This project has four alternates: Alternates "A"; "A-2"; "A-3"; and "A-4". These alternates were developed around the City of Canton. The existing interchange at I-575/SR 5 Bus. Conn. will be reconstructed. Current and future traffic is:

???  
for all  
alternates

| <u>Alt.</u> | <u>1995</u>         | <u>2015</u>         |
|-------------|---------------------|---------------------|
| A           | 10,000 - 17,000 VPD | 29,500 - 39,000 VPD |
| A-2         | 10,000 - 16,000 VPD | 29,500 - 38,500 VPD |
| A-3         | 10,000 - 14,000 VPD | 26,000 - 36,000 VPD |
| A-4         | 10,000 - 14,000 VPD | 28,500 - 36,000 VPD |

Alternate "A" begins at I-75 approximately one mile south of U.S. 411/I-75 interchange in Bartow County. It proceeds on new location in an easterly direction crossing Wolf Ridge Trail (C.R. 756), Holly Springs Road (C.R. 267), Bells Ferry Road (C.R. 634), and Stamp Creek Road (C.R. 269). The alignment then cross the Bartow/Cherokee County line crossing S.R. 108, Mt. Carmel Church Road (C.R. 13), the Etowah River, Brooks Drive (C.R. 10), Oakdale Road, and S.R. 5 Bus. It incorporates the right-of-way for S.R. 5 Bus. Connector and the I-575/S.R. 5 interchange in south Canton. It continues on new location in an easterly direction crossing Lower Scott Mill Drive (C.R. 332), Seaboard System Railroad, Lawson Drive, S.R. 140, Scott Road (C.R. 288), paralleling Avery Road (C.R. 776), crossing Epperson Road (C.R. 281), Upper Union Hill Road (C.R. 762), Johnson-Brady Road (C.R. 261), East Cherokee Drive (C.R. 765), Collett Road (C.R. 1045), Gaddis Road (C.R. 274), Arbor Hill Road (C.R. 237), Bobo Lane (C.R. 249), Wright's Mill Road (C.R. 523), S.R. 372, Freehome Road (C.R. 236), Birmingham Road (C.R. 254), and Hopewell Road (Holbrook Campground Road) in Cherokee County. The alignment then crosses the Cherokee/Forsyth County line proceeding in an easterly direction paralleling Bentley Road tying into S.R. 371 0.3 mile north of the Bentley Road/S.R. 371 intersection.

Hal Rives  
Page 2  
May 1, 1990

EDS-500(6); (4) Bartow, Cherokee, Forsyth Counties

Interchanges are proposed at S.R. 108, S.R. 5 Bus., I-575, S.R. 140, East Cherokee Drive, S.R. 372 and S.R. 371. The roads that will be relocated are Wolf Ridge Trail east of I-75, Haynes Road at Oakdale Road, Scott Road at S.R. 140, Johnson-Brady Road at East Cherokee Drive, Gaddis Road west of Arbor Hill Road, Bobo Lane at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 32.0 miles.

Alternate "A-2" is common with Alternate A from I-75 in Bartow County to the Etowah River west of Canton in Cherokee County. The alignment then turns in a southeasterly direction crossing S.R. 20, and Bells Ferry Road (C.R. 770). It then turns in an easterly direction crossing Marietta Road (Old S.R. 5) and I-575 1.1 miles north of Canton Road/I-575 interchange. It proceeds on new location crossing Seaboard System Railroad, Brick Mill Road (C.R. 333), and S.R. 140, where it becomes common with Alternate "A". It also ties into S.R. 371 in Forsyth County, 0.3 mile north of the Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 20, I-575, S.R. 140, East Cherokee Drive, S.R. 372 and S.R. 371. The roads that will be relocated are, Wolf Ridge Trail (C.R. 756) east of I-75, Larkwood Drive east of Bells Ferry Road, ramps at Canton Road/I-575 interchange, Scott Road (C.R. 288) at S.R. 140, Johnson-Brady Road at East Cherokee Drive, Gaddis Road (C.R. 274) west of Arbor Hill Road, Bobo Lane (C.R. 249) at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 32.4 miles.

Alternate "A-3" is common with Alternate "A" and "A-2" from I-75 in Bartow County to Mt. Carmel Church Road 2.5 miles east of S.R. 108 in Cherokee County. The alignment then turns in a northeasterly direction around the city of Canton. It crosses Rampley Trail, Honey Dew Drive (C.R. 527), S.R. 140, Amos Road, and I-575. It then turns in a southeasterly direction crossing S.R. 5, Teague Drive (C.R. 147), the Etowah River, the Seaboard System Railroad, Old Doss Drive (C.R. 517), S.R. 20, Scott Road (C.R. 288) and Epperson Road (C.R. 281) where it becomes common with Alternates "A" and "A-2". It also ties into S.R. 371 in Forsyth County, 0.3 mile north of the Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 140, I-575, S.R. 20, East Cherokee Drive, S.R. 372, and S.R. 371. The roads that will be relocated are, Wolf Ridge Trail east of I-75, Key Drive (C.R. 284) at S.R. 20, Johnson-Brady Road at East Cherokee Drive, Gaddis Road west of Arbor Hill Road, Bobo Lane at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 34.5 miles.

EDS-500(6); (4) Bartow, Cherokee, Forsyth Counties

Alternate "A-4" is common with Alternate "A-3" from I-75 in Bartow County to I-575 north of Canton in Cherokee County. The alignment then proceeds in an easterly direction crossing S.R. 5, York Drive (C.R. 100), Kraft Trail (C.R. 193), S.R. 20, East Cherokee Drive, and Arbor Hill Road, where it becomes common with Alternates "A", "A-2", and "A-3". It also ties into S.R. 371 in Forsyth County, 0.3 mile north of Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 140, I-575, S.R. 20, S.R. 372, and S.R. 371. The roads that will be relocated are Wolf Ridge Trail east of I-75, York Drive at S.R. 5, Marks Trail at Kraft Trail north of S.R. 20, Jack Page Lane at S.R. 20, Curtis Road (C.R. 268) east of East Cherokee Drive, Bobo Lane at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 32.8 miles.

Major structures to be constructed are:

|        | <u>Overpasses</u> | <u>Underpasses</u> | <u>Stream Bridge</u> | <u>Culverts</u> |
|--------|-------------------|--------------------|----------------------|-----------------|
| Alt. A | 9 sets            | 12                 | 5 sets               | 18              |
| A-2    | 12 sets           | 17                 | 5 sets               | 18              |
| A-3    | 12 sets           | 11                 | 7 sets               | 19              |
| A-4    | 7 sets            | 11                 | 6 sets               | 22              |

Environmental considerations for the alternates are:

| (1) <u>Displacements</u>      | <u>"A"</u> | <u>"A-2"</u> | <u>"A-3"</u> | <u>"A-4"</u> |
|-------------------------------|------------|--------------|--------------|--------------|
| Residences                    | 137        | 123          | 86           | 72           |
| Mobile homes                  | 23         | 7            | 8            | 13           |
| Businesses                    | 7          | 10           | 6            | 4            |
| (2) 404 Permits<br>(Wetlands) | 55 Ac.     | 75 Ac.       | 61 Ac.       | 49 Ac.       |
| (3) UST sites                 | 1          | 1            | 0            | 2            |

Traffic will be maintained on existing road during construction. Project EDS-500(6) extends from I-75 to I-575 and EDS-500(4) extends from I-575 to SR 371.

Hal Rives  
Page 4  
May 1, 1990

EDS-500(6); (4) Bartow, Cherokee, Forsyth Counties

The estimated cost of the considered alternates are:

|                  | <u>"A"</u>    | <u>"A-2"</u>  | <u>"A-3"</u>  | <u>"A-4"</u>  |
|------------------|---------------|---------------|---------------|---------------|
| Constr(Infl&E/C) | \$286,257,000 | \$269,239,000 | \$290,167,000 | \$271,257,000 |
| Right-of-way     | \$ 63,632,000 | \$ 62,478,000 | \$ 43,314,000 | \$ 37,860,000 |
| Utilities        | \$ 175,000    | \$ 175,000    | \$ 146,000    | \$ 150,000    |

I recommend that we approve this project concept for these 4 alternates which are to be presented at a public hearing scheduled for summer of 1990. Based upon environmental impacts and costs, Alternate "A-4" is recommended.

WJD/WLP/se

Attachment

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

APPROVED: Hal Rives  
Hal Rives, Commissioner

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

RECEIVED

APR 10 1990

PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-500 (6), (4) Bartow, Cherokee, Forsyth OFFICE Atlanta, Georgia  
 P.I. No. 662200, 662450 Counties  
 I-75 to SR 371 Connector DATE April 9, 1990

FROM Robert E. Humphrey, Project Review Engineer

TO G. C. Lewis, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

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

We have received a signed cover sheet from the following office:

Traffic and Safety

This report is satisfactory for approval.

The estimated costs of this project are as follows:

|                                 | <u>Alternate "A"</u>   | <u>Alternate "A-2"</u> |
|---------------------------------|------------------------|------------------------|
| Construction                    | \$236,577,000          | \$222,512,000          |
| Inflation (5% per year)x 2 yrs. | 23,657,000             | 22,251,000             |
| E & C (10%)                     | 26,023,000             | 24,476,000             |
| Preliminary Engineering (5%)    | 13,011,000             | 12,238,000             |
| Right of Way                    | 63,632,000             | 62,478,000             |
| Utilities                       | 175,000                | 175,000                |
|                                 | <u>Alternate "A-3"</u> | <u>Alternate "A-4"</u> |
| Construction                    | \$239,809,000          | \$224,180,000          |
| Inflation (5% per year)x 2 yrs. | 23,980,000             | 22,418,000             |
| E & C (10%)                     | 26,378,000             | 24,659,000             |
| Preliminary Engineering (5%)    | 13,189,000             | 12,329,000             |
| Right of Way                    | 43,314,000             | 37,860,000             |
| Utilities                       | 146,000                | 150,000                |

MJB/jmf

Attachments

c: Frank Danchetz

EDS-460(1)/EDS-500(4)  
BARTOW/CHEROKEE/FORSYTH COUNTIES  
P.I. NOS. 662200/662450

PROJECT DESCRIPTION

The proposed project is a rural four lane divided highway with a 102 foot median on a minimum of 400 foot of right of way plus easements. It is a limited access facility. The project begins at I-75 north of Cartersville in Bartow County and proceeds in an easterly direction on new location to S.R. 371 in Forsyth County. This project has four alternatives, Alternate "A", "A-2", "A-3", and "A-4". The alternates were developed around the city of Canton in Cherokee County.

Alternate "A" begins at I-75 approximately one mile south of U.S. 411/I-75 interchange in Bartow County. It proceeds on new location in an easterly direction crossing Wolf Ridge Trail (C.R. 756), Holly Springs Road (C.R. 267), Bells Ferry Road (C.R. 634), and Stamp Creek Road (C.R. 269). The alignment then cross the Bartow/Cherokee County line crossing S.R. 108, Mt. Carmel Church Road (C.R. 13), the Etowah River, Brooks Drive (C.R. 10), Oakdale Road, and S.R. 5 Bus. It incorporates the right-of-way for S.R. 5 Bus. Connector and the I-575/S.R. 5 interchange in south Canton. It continues on new location in an easterly direction crossing Lower Scott Mill Drive (C.R. 332), Seaboard System Railroad, Lawson Drive, S.R. 140, Scott Road (C.R. 288), paralleling Avery Road (C.R. 776), crossing Epperson Road (C.R. 281), Upper Union Hill Road (C.R. 762), Johnson-Brady Road (C.R. 261), East Cherokee Drive (C.R. 765), Collett Road (C.R. 1045), Gaddis Road (C.R. 274), Arbor Hill Road (C.R. 237), Bobo Lane (C.R. 249), Wright's Mill Road (C.R. 523), S.R. 372, Freehome Road (C.R. 236), Birmingham Road (C.R. 254), and Hopewell Road (Holbrook Campground Road) in Cherokee County. The alignment then crosses the Cherokee/Forsyth County line proceeding in an easterly direction paralleling Bentley Road tying into S.R. 371 0.3 mile north of the Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 5 Bus., I-575, S.R. 140, East Cherokee Drive, S.R. 372 and S.R. 371. The roads that will be relocated are Wolf Ridge Trail east of I-75, Haynes Road at Oakdale Road, Scott Road at S.R. 140, Johnson-Brady Road at East Cherokee Drive, Gaddis Road west of Arbor Hill Road, Bobo Lane at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 32.0 miles.

Alternate "A-2" is common with Alternate A from I-75 in Bartow County to the Etowah River west of Canton in Cherokee County. The alignment then turns in a south easterly direction crossing S.R. 20, and Bells Ferry Road (C.R. 770). It then turns in an easterly direction crossing Marietta Road (Old S.R. 5) and I-575 1.1 miles north of Canton Road/I-575 interchange. It proceeds on new location crossing Seaboard System Railroad, Brick Mill Road (C.R. 333), and S.R. 140, where it becomes common with Alternate "A". It also ties into S.R. 371 in Forsyth County, 0.3 mile north of the Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 20, I-575, S.R. 140, East Cherokee Drive, S.R. 372 and S.R. 371. The roads that will be relocated are, Wolf Ridge Trail (C.R. 756) east of I-75, Larkwood Drive east of Bells Ferry Road, ramps at Canton Road/I-575 interchange, Scott Road (C.R. 288) at S.R. 140, Johnson-Brady Road at East Cherokee Drive, Gaddis Road (C.R. 274) west of Arbor Hill Road, Bobo Lane (C.R. 249) at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 32.4 miles.

Alternate "A-3" is common with Alternate "A" and "A-2" from I-75 in Bartow County to Mt. Carmel Church Road 2.5 miles east of S.R. 108 in Cherokee County. The alignment then turns in a northeasterly direction around the city of Canton. It crosses Rampley Trail, Honey Dew Drive (C.R. 527), S.R. 140, Amos Road, and I-575. It then turns in a southeasterly direction crossing S.R. 5, Teague Drive (C.R. 147), the Etowah River, the Seaboard System Railroad, Old Doss Drive (C.R. 517), S.R. 20, Scott Road (C.R. 288) and Epperson Road (C.R. 281) where it becomes common with Alternates "A" and "A-2". It also ties into S.R. 371 in Forsyth County, 0.3 mile north of the Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 140, I-575, S.R. 20, East Cherokee Drive, S.R. 372, and S.R. 371. The roads that will be relocated are, Wolf Ridge Trail east of I-75, Key Drive (C.R. 284) at S.R. 20, Johnson-Brady Road at East Cherokee Drive, Gaddis Road west of Arbor Hill Road, Bobo Lane at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 34.5 miles.

Alternate "A-4" is common with Alternate "A-3" from I-75 in Bartow County to I-575 north of Canton in Cherokee County. The alignment then proceeds in an easterly direction crossing S.R. 5, York Drive (C.R. 100), Seaboard System Railroad, the Etowah River, Harmony Drive (C.R. 189), Kraft Trail (C.R. 193), S.R. 20, East Cherokee Drive, and Arbor Hill Road, where it becomes common with Alternates "A", "A-2", and "A-3". It also ties into S.R. 371 in Forsyth County, 0.3 mile north of Bentley Road/S.R. 371 intersection.

Interchanges are proposed at S.R. 108, S.R. 140, I-575, S.R. 20, S.R. 372, and S.R. 371. The roads that will be relocated are Wolf Ridge Trail east of I-75, York Drive at S.R. 5, Marks Trail at Kraft Trail north of S.R. 20, Jack Page Lane at S.R. 20, Curtis Road (C.R. 268) east of East Cherokee Drive, Bobo Lane at Wright's Mill Road, and Purcell Lane at Birmingham Road.

The total length of this alternate is 32.8 miles.

These alternates are designated with two project numbers. The EDS-460(1) project includes the area from I-75 in Bartow County to I-575 in Cherokee County at Canton. The EDS-500(4) project includes the area from I-575 to Canton in Cherokee County to S.R. 371 in Forsyth County.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE EDS-500(6)/EDS-500(4) OFFICE Environment/Location  
Bartow/Cherokee/Forsyth Counties  
P.I. Nos. 662200/662450 DATE March 15, 1990

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

TO Robert Humphrey, Project Review Engineer - Engineering Services

SUBJECT Concept Report - I-75 to S.R. 371 Connector

Attached is the concept report of the above project for your review and processing. This is in accordance with the Plan Development Process.

FLD/FRM:cdm

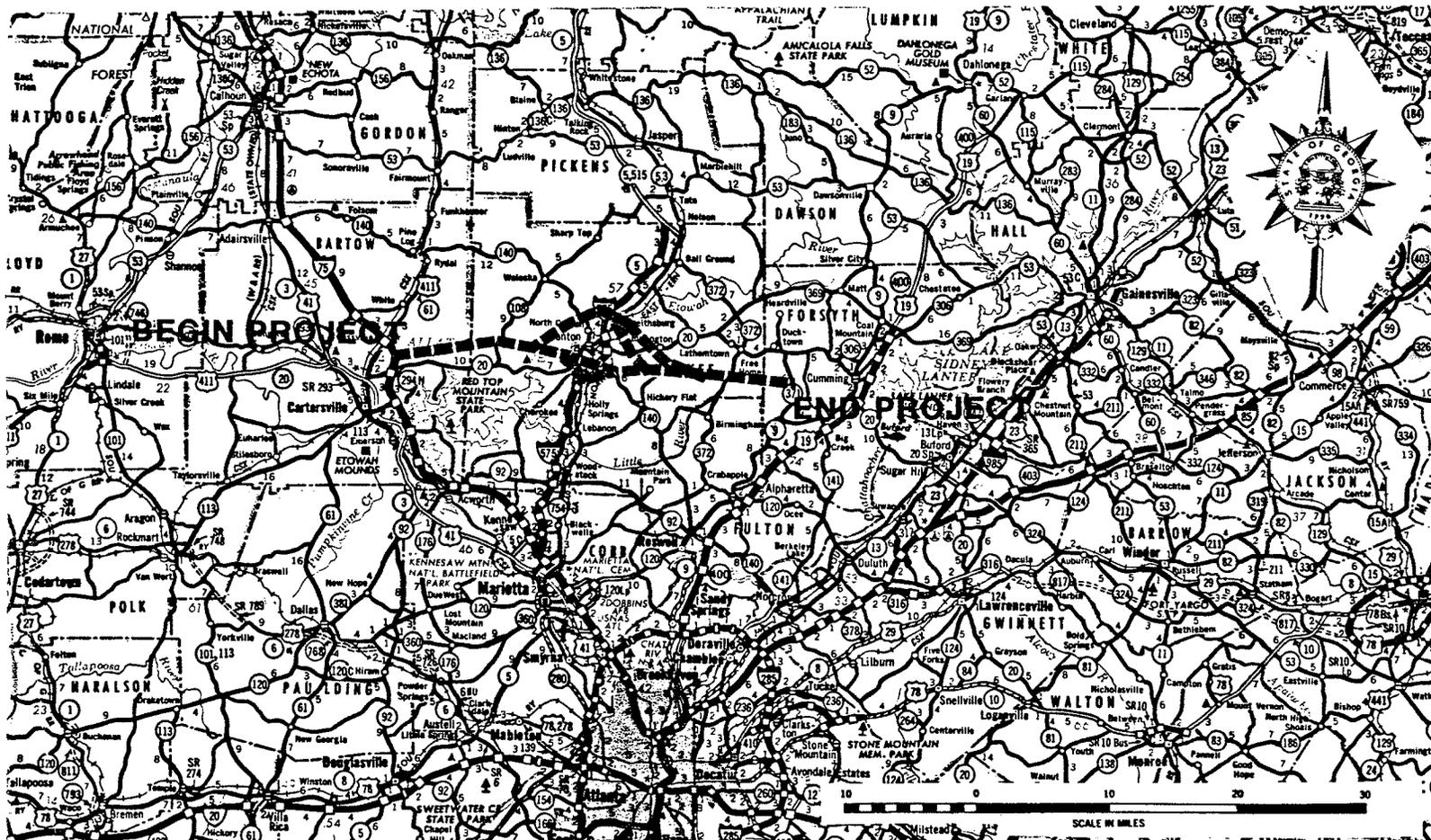
cc: Charles Lewis  
J.B. Johnson  
Walker Scott  
Ronald Colvin  
Paul Liles  
Hugh Tyner/Gainesville  
Felton D. Rutledge/Cartersville

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number: EDS-500(6)/EDS-500(4)  
 County: BARTOW/CHEROKEE/FORSYTH  
 P. I. Number: 662200/662450  
 Federal Route Number: N/A  
 State Route Number: N/A



RECOMMENDATION FOR APPROVAL:

March 14, 1990  
DATE

Frank L. Douchet  
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/CARTERSVILLE

\_\_\_\_\_  
DATE

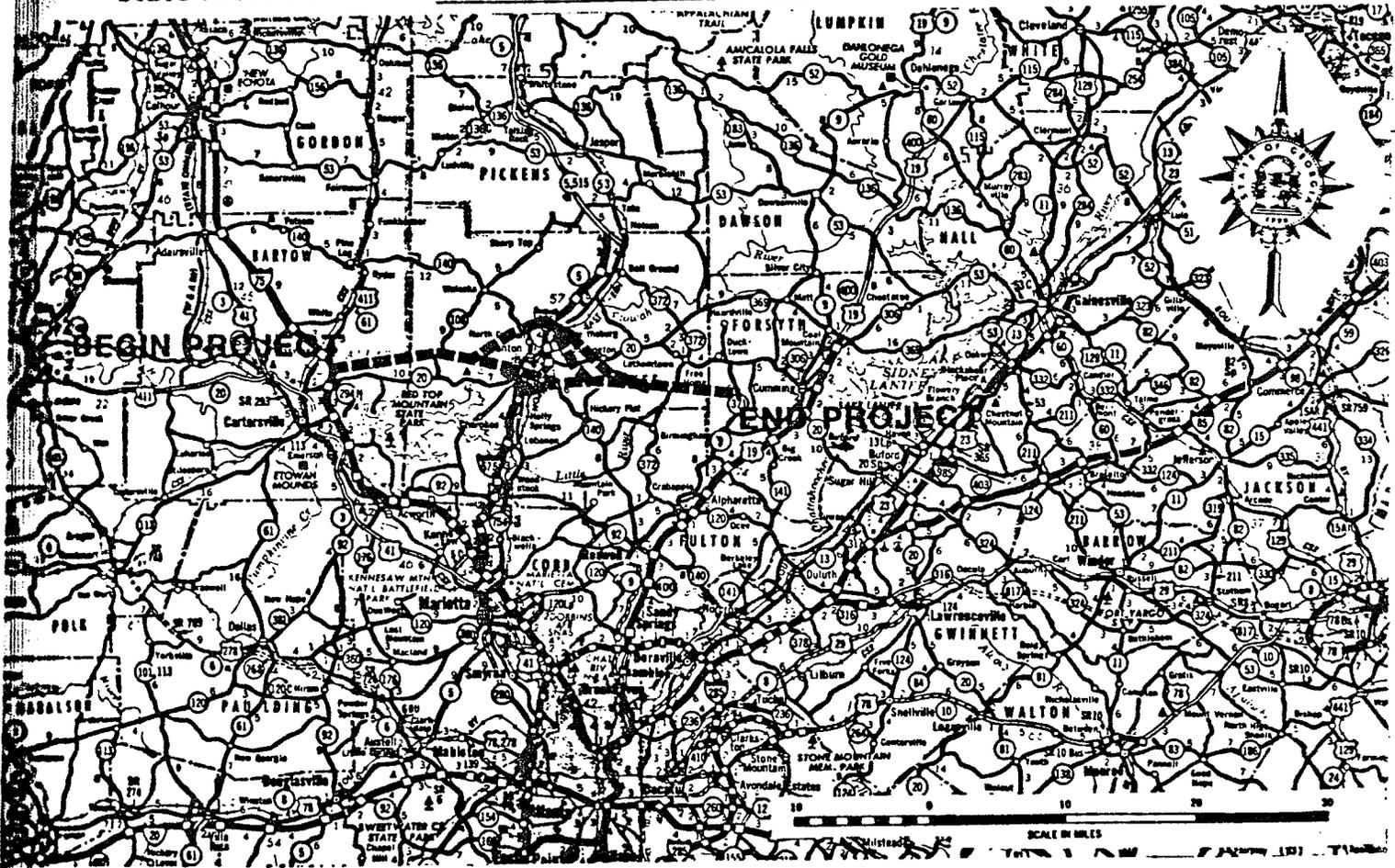
\_\_\_\_\_  
DISTRICT ENGINEER/GAINESVILLE

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number: EDS-500(6)/EDS-500(4)  
 County: BARTOV/CHEROKEE/FORSYTH  
 P.I. Number: 662200/662450  
 Federal Route Number: N/A  
 State Route Number: N/A



RECOMMENDATION FOR APPROVAL:

March 14, 1990  
DATE

Frank L. Donahue  
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE  
March 28, 1990  
DATE

STATE ROAD AND AIRPORT DESIGN ENGINEER  
Ken Colvin  
STATE TRAFFIC AND SAFETY ENGINEER

DATE

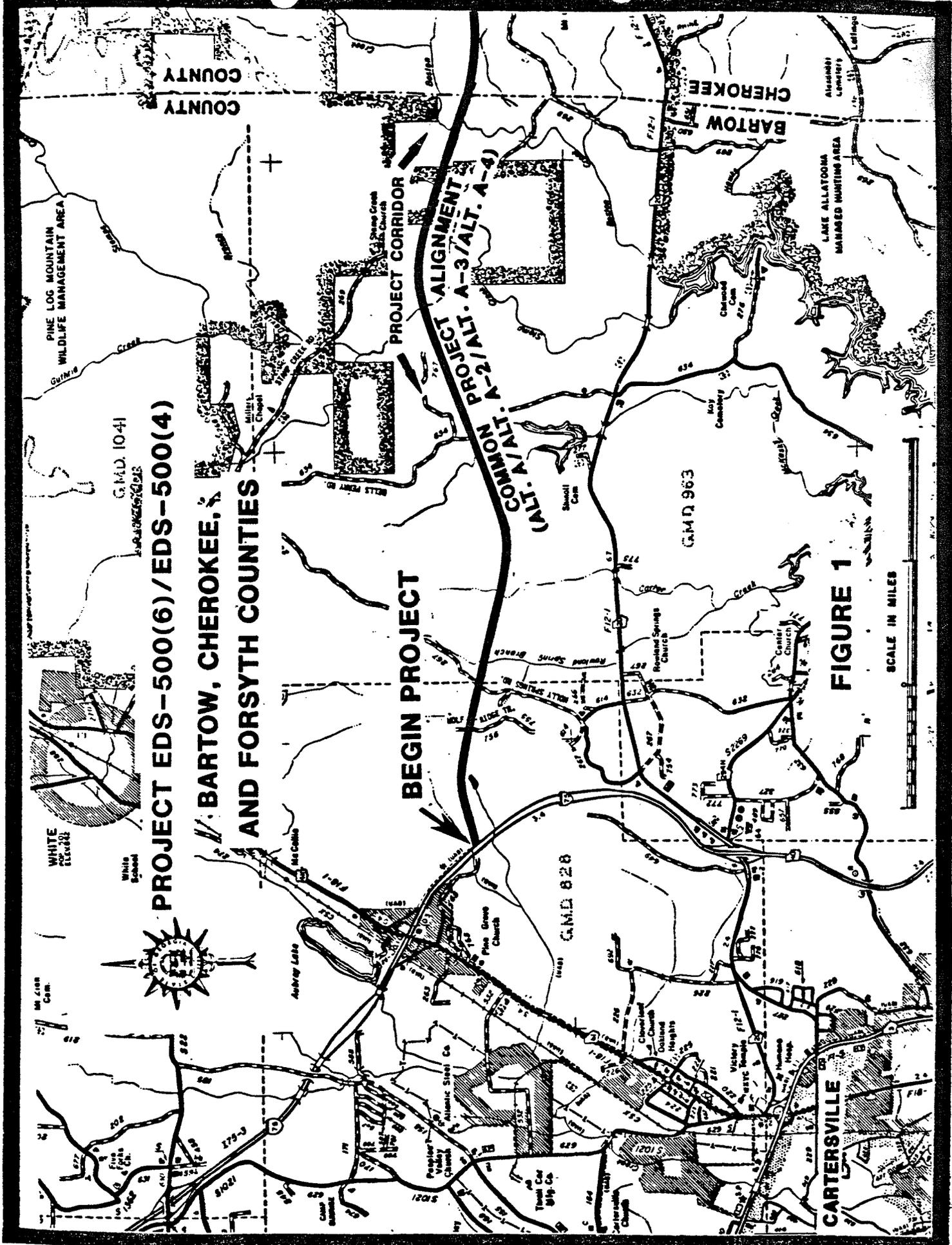
STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE

DISTRICT ENGINEER/CARTERSVILLE

DATE

DISTRICT ENGINEER/GAINESVILLE



**PROJECT EDS-500(6)/EDS-500(4)  
BARTOW, CHEROKEE,  
AND FORSYTH COUNTIES**

**BEGIN PROJECT**

**COMMON PROJECT ALIGNMENT  
(ALT. A-2 / ALT. A-3 / ALT. A-4)**

**FIGURE 1**

SCALE IN MILES

**CARTERSVILLE**

**COUNTY  
COUNTY**

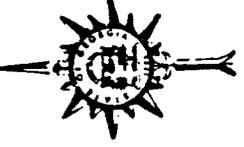
**BARTOW  
CHEROKEE**

WHITE LOG MOUNTAIN  
WILDLIFE MANAGEMENT AREA

LAKE ALIATOOMA  
MANAGED HUNTING AREA

WHITE  
LOG MOUNTAIN  
ELEVATION

White  
School



G.M.D. 1041

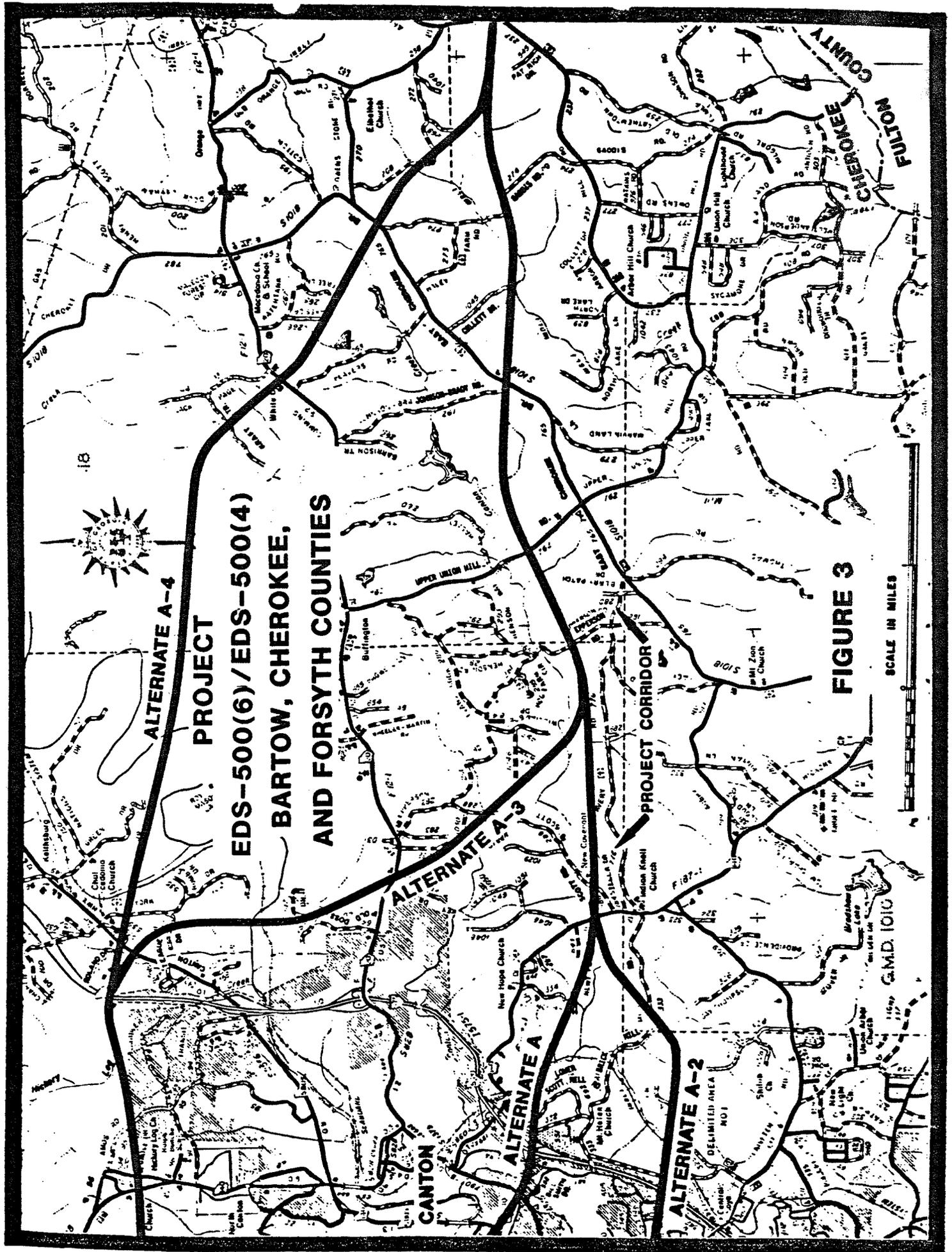
G.M.D. 963

G.M.D. 828

Mr. L. C. C. Co.

White  
School





**ALTERNATE A-4**  
**PROJECT**  
**EDS-500(6)/EDS-500(4)**  
**BARTOW, CHEROKEE,**  
**AND FORSYTH COUNTIES**

**FIGURE 3**

SCALE IN MILES

G.M.D. 1010

CANTON

ALTERNATE A-2  
 DESIGNATED AREA  
 NO. 1

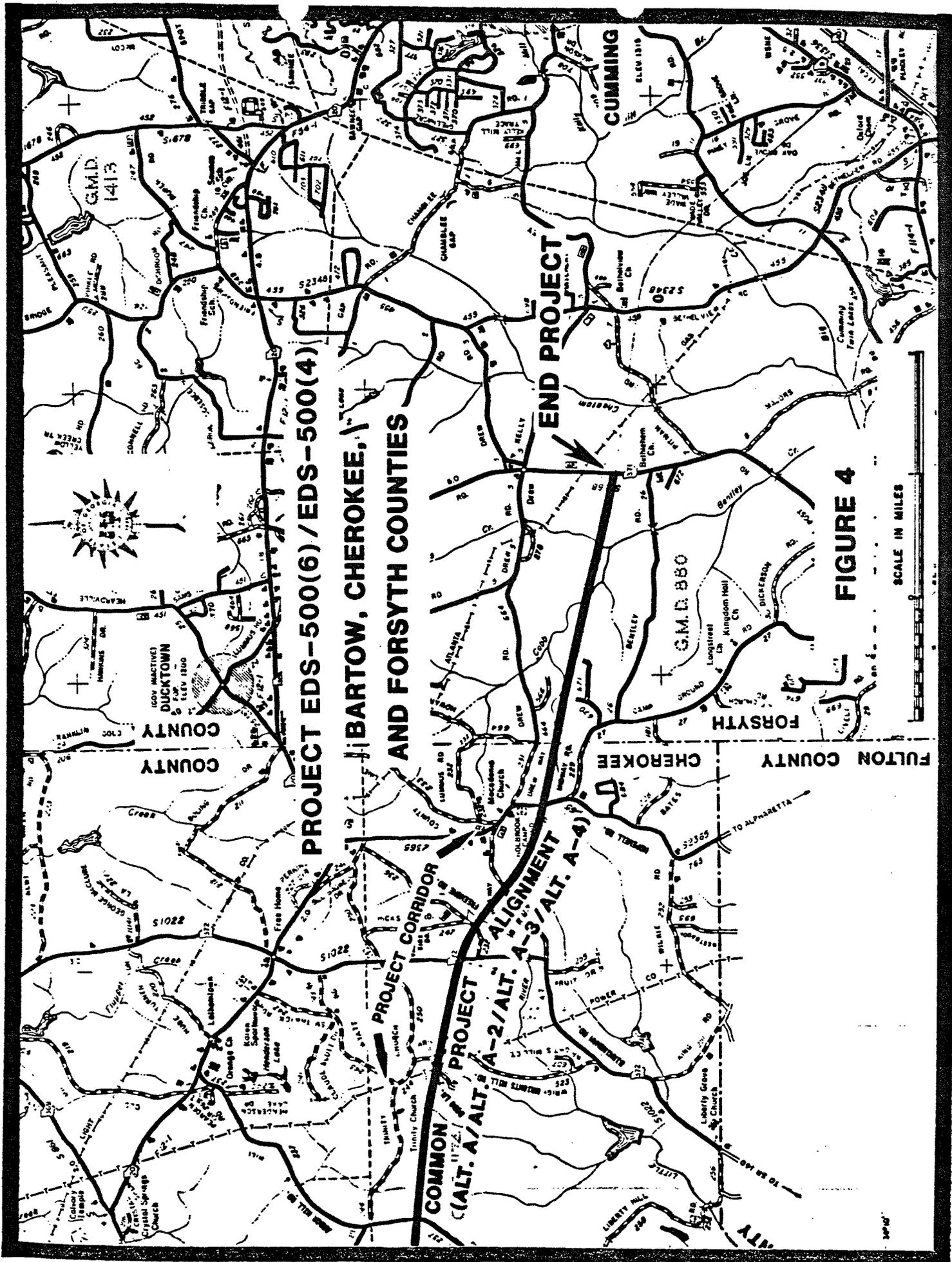
ALTERNATE A-3

ALTERNATE A

PROJECT CORRIDOR

FULTON COUNTY  
 CHEROKEE COUNTY

18



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**



**FILE** Project No. EDS-500 (6)/EDS-500 (4)  
Bartow/Cherokee/Forsyth Counties  
P.I. No. 662200/662450

**OFFICE** Atlanta, Georgia

**DATE** March 27, 1990

**FROM** *RC* Ron Colvin, P.E., State Traffic & Safety Engineer

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

**Project Concept Report Review**

**SUBJECT**

We have reviewed the concept report on the above project for the proposed Outer Perimeter from I-75, north of Cartersville in Bartow County, continuing on new location to the east of S.R. 371 in Forsyth County. The project has four concept Alternatives "A", "A-2", "A-3", and "A-4". Their lengths are 32.0, 32.4, 34.5, and 32.8 miles respectively. Design speed is 70 mph.

The typical section is a four lane facility, two 12 ft. lanes in each in each direction, with a 102 ft. grassed median and shoulder widths to meet current specifications.

As noted in the Supplemental Team Meeting Minutes, Alternate "A-4" generally has the support of local representatives and officials for the following reasons: The statistics discussed indicated Alternate "A-4" would be the best considering it would relieve a bottleneck created by the growth along S.R. 140 north of Canton, take through truck traffic on S.R. 20 out of Canton and better accommodate the northern Counties. However, the alternate selected will be decided after the Public Hearing.

From a safety and economical perspective Alternate "A-4" is preferred and appears to provide the best Alternative.

We consider the concept report alternatives satisfactory concerning safety and operational capacity.

JJD:LEO:aj

Attachments

cc: Frank Danchetz, State Environmental/Location Engineer; Felton D. Rutledge,  
District Engineer - Cartersville

PROJECT CONCEPT REPORT

DATE: 03-01-90

PROJECT NUMBER: EDS-500(6)/EDS-500(4)

COUNTY: BARTOW/CHEROKEE/FORSYTH

PROJECT NAME: I-75 TO S.R. 371 CONNECTOR

P.I. NUMBER: 662200/662450

U.S. ROUTE NO: N/A

STATE ROUTE NO: N/A

LOCATION

FROM I-75, NORTH OF CARTERSVILLE IN BARTOW CO., ON NEW LOCATION TO THE EAST TO S.R. 371 IN FORSYTH CO. (SEE ATTACHMENT FOR DETAILED ALTERNATE DESCRIPTIONS)

TRAFFIC

|          | <u>CURRENT</u> (1995 AADT) | <u>PROJECTED</u> ( 2015 AADT) |
|----------|----------------------------|-------------------------------|
| ALT. A   | 10,000 - 17,000            | 29,500 - 39,000               |
| ALT. A-2 | 10,000 - 16,000            | 29,500 - 38,500               |
| ALT. A-3 | 10,000 - 14,000            | 26,000 - 36,000               |
| ALT. A-4 | 10,000 - 14,000            | 28,500 - 36,000               |

PDP CLASSIFICATION

MAJOR NEW CONSTRUCTION

FUNCTIONAL CLASSIFICATION

RURAL PRINCIPAL ARTERIAL

EXISTING TYPICAL SECTION

N/A

POSTED SPEED

N/A

MAX EXIST DEGREE OF CURVE

N/A

MAX EXIST GRADE

N/A

EXISTING MAJOR STRUCTURES

FOR ALT. "A" THE EXISTING BRIDGES AT I-575/S.R. 5 BUS. CONN. AT CANTON WILL HAVE TO BE REWORKED, BECAUSE THE INTERCHANGE MUST BE RECONSTRUCTED. THESE BRIDGES WILL NOT BE REPLACED BECAUSE OF INSUFFICIENT DECK WIDTHS OR STRUCTURAL DEFICIENCIES.

PROJECT NEED: THIS PROJECT IS A PART OF THE GOVERNOR'S ROAD IMPROVEMENT PROGRAM. IT WILL PROVIDE SAFE, EFFICIENT, HIGH-SPEED TRAVEL IN THE I-75 TO S.R. 400 CORRIDOR. IT WILL PROVIDE A DEGREE OF TRANSPORTATION INDEPENDENCE TO THIS REGION THAT DOES NOT EXIST AT THIS TIME. IT WILL GIVE THE NEEDED RELIEF TO THE FAST GROWING COUNTIES.

**PROJECT CONCEPT REPORT**

PROJECT NUMBER: EDS-500(6)/EDS-500(4)

PROPOSED TYPICAL SECTION

4 LANE RURAL DIVIDED HIGHWAY WITH 102 FOOT GRASS MEDIAN ON 400 FOOT MINIMUM RIGHT-OF-WAY  
(SEE ATTACHMENT).

|                     |   |   |
|---------------------|---|---|
| <u>DESIGN SPEED</u> | <u>MAX DEGREE OF CURVE</u>                          | <u>MAX GRADE</u>                                  |
| 70 MPH              | ALLOWABLE: <u>3° 00'</u><br>PROPOSED: <u>2° 30'</u> | ALLOWABLE: <u>5.0 %</u><br>PROPOSED: <u>4.0 %</u> |

MAJOR STRUCTURES

- ALT. "A": 9 SETS OF OVERPASSES; 12 UNDERPASSES; 5 SETS STREAM BRIDGES AND 18 CULVERTS
- ALT. "A-2": 12 SETS OF OVERPASSES; 17 UNDERPASSES; 5 SETS STREAM BRIDGES AND 18 CULVERTS
- ALT. "A-3": 12 SETS OF OVERPASSES; 11 UNDERPASSES; 7 SETS STREAM BRIDGES AND 19 CULVERTS
- ALT. "A-4": 7 SETS OF OVERPASSES; 11 UNDERPASSES; 6 SETS STREAM BRIDGES AND 22 CULVERTS

TYPE ACCESS: LIMITED ACCESS

TRAFFIC CONTROL DURING CONSTRUCTION: TRAFFIC WILL BE MAINTAINED ON ALL CROSS ROADS.

ESTIMATED COST:

|                           |   |   |   |   |
|---------------------------|---|---|---|---|
| ALTERNATES:               | <u>"A"</u> <i>7,000 mcf</i>             | <u>"A-2"</u> <i>2,000 mcf</i>           | <u>"A-3"</u> <i>9,000 mcf</i>           | <u>"A-4"</u> <i>80,000 r/f</i>          |
| CONSTRUCTION:             | <del>236,576,603</del><br>\$257,033,000 | <del>222,514,695</del><br>\$242,539,000 | <del>239,808,645</del><br>\$263,365,000 | <del>224,179,928</del><br>\$247,232,000 |
| E&C (10%):                | \$ 25,703,000                           | \$ 24,254,000                           | \$ 26,337,000                           | \$ 24,723,000                           |
| INFLATION:                | \$ 26,346,000                           | \$ 24,861,000                           | \$ 26,995,000                           | \$ 25,341,000                           |
| <u>2 YRS AT 5% PER YR</u> |   |   |   |   |
| TOTAL CONST. COST:        | <del>\$309,082,000</del>                | <del>\$291,654,000</del>                | \$316,697,000                           | \$297,296,000                           |
| RIGHT-OF-WAY:             | \$ 63,632,000                           | \$ 62,478,000                           | \$ 43,314,000                           | \$ 37,860,000                           |
| ACQUIRED BY:              | D.O.T.                                  | D.O.T.                                  | D.O.T.                                  | D.O.T.                                  |
| UTILITIES:                | \$ 175,000                              | \$ 175,000                              | \$ 146,000                              | \$ 158,000                              |
| ADJUSTED BY:              |   |   |   |   |

PROJECT CONCEPT REPORT

PROJECT NUMBER: EDS-500(6)/EDS-500(4)

| DISPLACEMENTS: | "A" | "A-2" | "A-3" | "A-4" |
|----------------|-----|-------|-------|-------|
| RESIDENCES     | 137 | 123   | 86    | 72    |
| MOBILE HOMES   | 23  | 7     | 8     | 13    |
| BUSINESSES     | 7   | 10    | 6     | 4     |

LEVEL OF ENVIRONMENTAL ANALYSIS: ENVIRONMENTAL IMPACT STATEMENT

LEVEL OF PUBLIC INVOLVEMENT: PUBLIC HEARING

TIME SAVING PROCEDURES APPROPRIATE: YES X NO

DESIGN VARIATIONS REQUIRED: NONE

OTHER PROJECTS IN AREA: EDS-500(5), BARTOW CO. (U.S. 411 EXT.); IR-75-3(175), BARTOW CO. (INTERCHANGE PROJECT) AND EDS-500(9), FORSYTH CO. (S.R. 371 TO I-85 CONN.)

CONCEPT TEAM MEETING DATE: MAY 19, 1989 AND JANUARY 19, 1990 - SUPPLEMENTAL

LOCATION INSPECTION DATE: N/A

PERMITS REQUIRED (4f, COE, 404, etc.): 404 PERMITS (WETLAND - ALT. A/55 AC; ALT. A-2/75 AC; ALT. A-3/61 AC; ALT. A-4/49 AC)

UNDERGROUND STORAGE TANKS: SEE LIST OF U.S.T.'S AND LOCATION ATTACHED.

HAZARDOUS WASTE SITES: NONE KNOWN

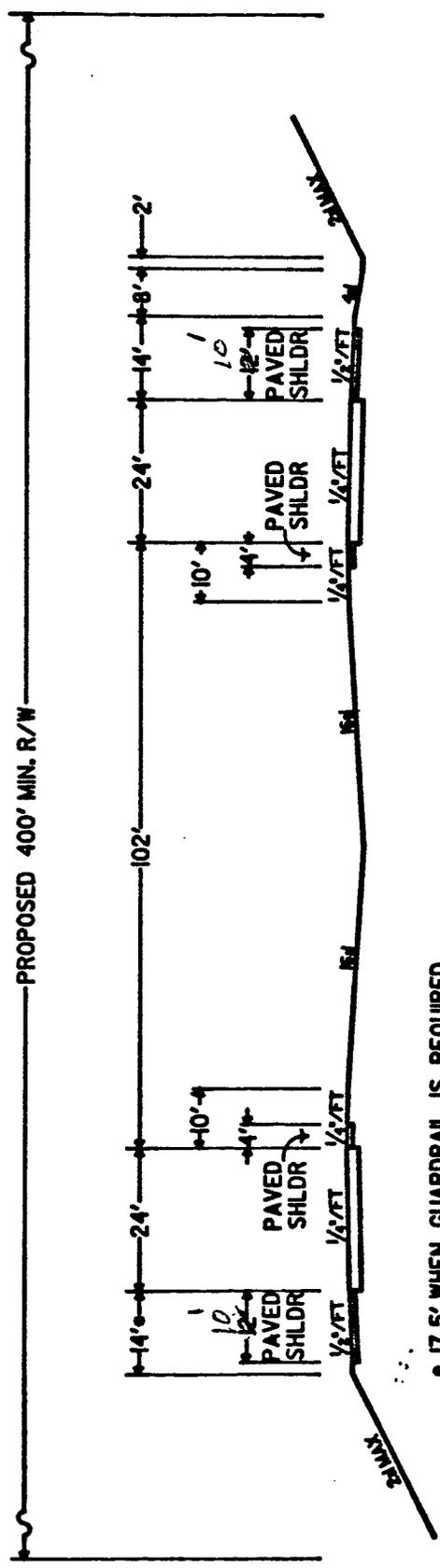
OTHER ALTERNATES CONSIDERED: ALTERNATE "A-1" FROM I-75 ON NEW LOCATION AROUND THE NORTH SIDE OF WOLFPEN WILDERNESS COMMUNITY TYING BACK INTO ALTERNATE "A"/"A-2"/"A-3"/"A-4" EAST OF BELLS FERRY ROAD. THE ALTERNATE WAS 0.6 MILE LONGER AND WAS ELIMINATED BECAUSE IT DID NOT IMPROVE ON THE NUMBER OF DISPLACEMENTS AND THE CONSTRUCTION COST WAS MUCH HIGHER.

COMMENTS: THE PROJECT NUMBER EDS-460(1) HAS BEEN CHANGED TO EDS-500(6) AS OF JANUARY 10, 1990. SOME OF THE ATTACHED REPORTS WILL BE USING THE OLD PROJECT NUMBER. THE UNIT (6) PROJECT IS FROM I-75 TO I-575 AND THE UNIT (4) IS FROM I-575 TO S.R. 371.

ATTACHMENTS: STRIP MAP
ALTERNATE DESCRIPTION
TYPICAL SECTION

COST ESTIMATES
TEAM MEETING MINUTES
SUPPLEMENTAL TEAM MTG. MINUTES

**PROJECT EDS-500(6)/EDS-500(4)  
BARTOW, CHEROKEE, AND FORSYTH COUNTIES**



• 17.5' WHEN GUARDRAIL IS REQUIRED

**TYPICAL CROSS SECTION**

**ALTERNATE A / ALTERNATE A-2 / ALTERNATE A-3 / ALTERNATE A-4**

**FIGURE 5**

**NOT TO SCALE**



*File*

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

RECEIVED

MAY 29 1990

FILE

OFFICE Cartersville **RECONSTRUCTION**

DATE May 25, 1990

FROM

Felton D. Rutledge, District Engineer

TO

J. B. Johnson, Assistant Director of Preconstruction

SUBJECT

**EDS-500(6); (4) BARTOW, CHEROKEE, FORSYTH  
P.I. NOS. 662200; 662450  
I-75 to SR 371**

We have reviewed the Concept Report on the above listed projects and we are returning the signed approval sheet.

*William H. McVey*  
William H. McVey  
Preconstruction Engineer  
District Six

FDR:WHM:vlw

Attachments

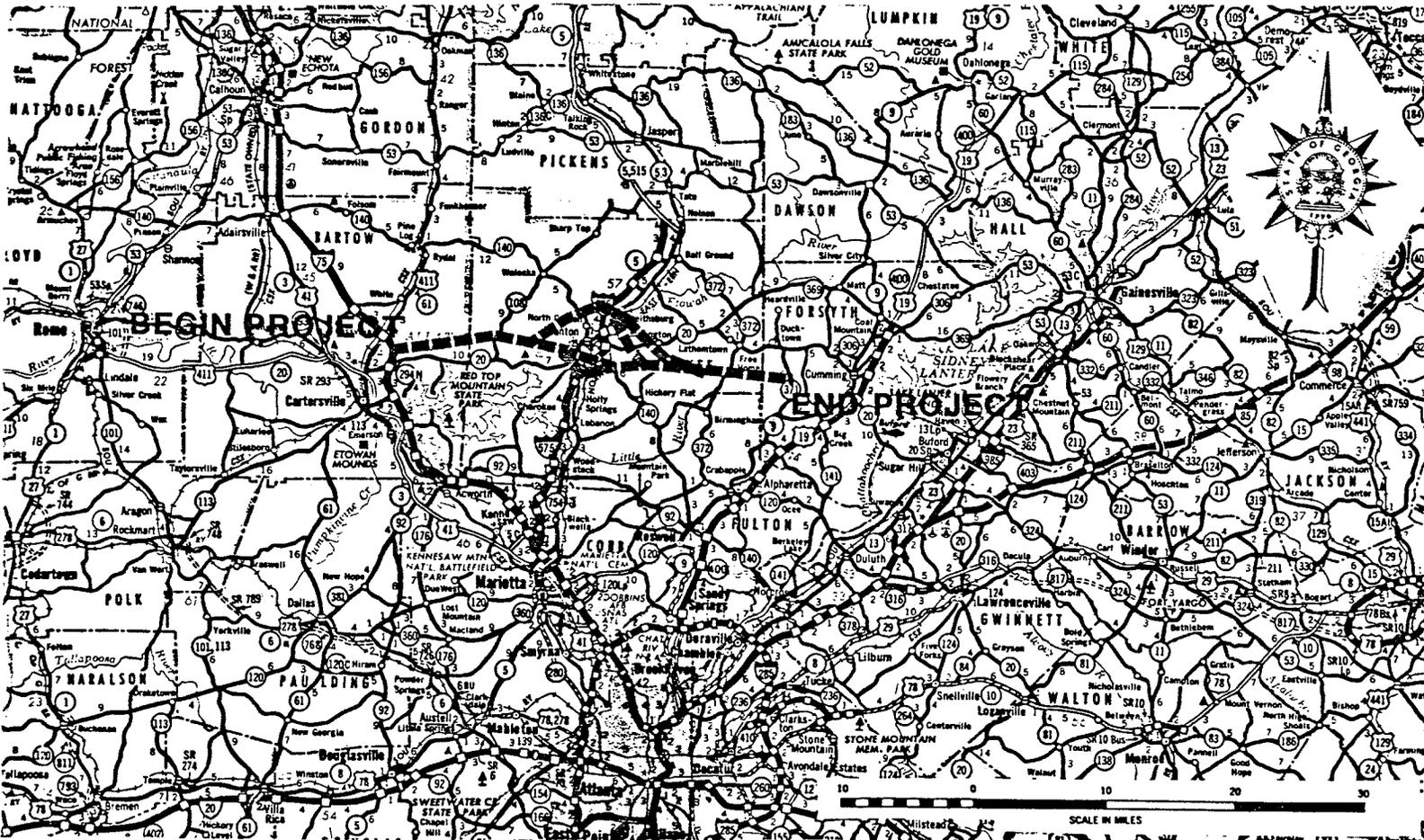


OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number: EDS-500(6)/EDS-500(4)  
 County: BARTOW/CHEROKEE/FORSYTH  
 P.I. Number: 662200/662450  
 Federal Route Number: N/A  
 State Route Number: N/A



RECOMMENDATION FOR APPROVAL:

March 14, 1990  
 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

May 20, 1990  
 DATE

[Signature]  
 DISTRICT ENGINEER/CARTERSVILLE

DATE

DISTRICT ENGINEER/GAINESVILLE