

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-006-4(31) Upson County  
P. I. No. 322920

OFFICE Preconstruction

DATE October 4, 2002

FROM *Margaret B. Pirkle*  
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

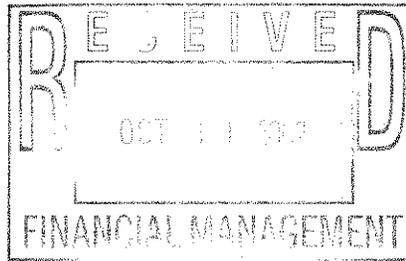
Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

- David Mulling
- Harvey Keepler
- Jerry Hobbs
- ~~Herman Griffin~~
- Michael Henry
- Phillip Allen
- Marta Rosen
- Paul Liles
- Ben Buchan
- Thomas Howell
- BOARD MEMBER



*AS*

✓ FINANCIAL MANAGEMENT

|           |                |
|-----------|----------------|
| DEV       | <i>FW</i>      |
| ACCT.     |                |
| FIN.      |                |
| CASH FLOW |                |
| SPENDING  | <i>Wier WB</i> |
|           |                |
|           |                |

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** NH-006-4(31) Upson County **OFFICE** Preconstruction  
P.I. No. 322920 **DATE** September 24, 2002

**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** Frank L. Danchetz, P.E., Chief Engineer

**SUBJECT PROJECT CONCEPT REPORT**

This project is the intersection improvements to SR 3/US 19 at CR 73 in Thomaston. The existing typical section for SR 3 consists of four, 10' lanes divided by a 10' flush median. County Road 73 currently consists of two, 10' lanes. The proposed improvements are needed to relieve intersection congestion on SR 3/US 19. Currently, there is a high rate of injury accidents along this stretch of SR 3/US 19. The majority of the accidents that occurred along SR 3/US 19 were either angle-intersect or rear-end accidents. These accidents can occur as a result of turning vehicles blocking through lanes or encroaching into opposing lanes. The base year traffic (2005) on SR 3/US 19 is 24,200 VPD and the design year (2025) volumes are expected to be 36,000 VPD.

The proposed construction will widen SR 3/US 19 within the project limits to provide four, 12' lanes with a 20' raised median. The improvements will provide left and right turn lanes along SR 3/US 19 on both the northbound and southbound approaches. County Road 73 will be widened to provide a separate 12' left turn lane at the intersection for the eastbound and westbound approaches. This project will also provide 5' sidewalks on both sides of the roadway within the project limits and upgrade the existing traffic signal. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public information meeting will be held; time saving procedures are <sup>NOT</sup> appropriate.

The estimated costs for this project are:

|   | <u>PROPOSED</u> | <u>APPROVED</u> | <u>PROG DATE</u> | <u>LET DATE</u> |
|---|-----------------|-----------------|------------------|-----------------|
| Construction (includes E&C and inflation) | \$ 2,769,000    | \$3,000,000     | 2003             | FY-05           |
| Right-of-Way                              | \$13,260,000    | \$ 102,000      |                  |                 |
| Utilities*                                | \$ 1,080,000    | -----           |                  |                 |

Frank L. Danchetz

Page 2

NH-006-4(31) Upson

September 24, 2002

\*LGPA sent 8-10-01 requesting Upson County do utilities.

This project is in the STIP. I recommend this project concept be approved.

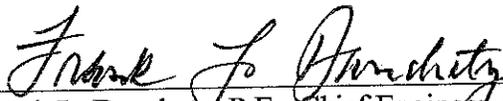
MBP:JDQ/cj

Attachment

CONCUR

  
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE

  
Frank L. Danchetz, P.E., Chief Engineer 



## SCORING RESULTS AS PER MOG 2440-2

| <b>Project Number:</b><br>NH-006-4(31)              |       | <b>County:</b><br>Upton   |   | <b>PI No.:</b><br>322920                          |   |
|---|-------|---|---|---|---|
| <b>Report Date:</b><br>August 20, 2002              |       | <b>Concept By:</b><br>DOT Office: District 3 Design                         |   |   |   |
| <input checked="" type="checkbox"/> Concept Stage   |       | Consultant: R.K. Shah & Associates/Arcadis                                  |   |   |   |
| <b>Project Type:</b><br>Choose One From Each Column |       | <input checked="" type="checkbox"/> Major<br><input type="checkbox"/> Minor | <input checked="" type="checkbox"/> Urban<br><input type="checkbox"/> Rural | <input type="checkbox"/> ATMS                     | <input type="checkbox"/> Bridge Replacement                   |
|   |       |   |   | <input type="checkbox"/> Building                 | <input type="checkbox"/> Interchange Reconstruction           |
|   |       |   |   | <input type="checkbox"/> Intersection Improvement | <input type="checkbox"/> Interstate                           |
|   |       |   |   | <input type="checkbox"/> New Location             | <input checked="" type="checkbox"/> Widening & Reconstruction |
|   |       |   |   | <input type="checkbox"/> Miscellaneous            |   |
| FOCUS AREAS   | SCORE | RESULTS   |   |   |   |
| <b>Presentation</b>                                 | 100   |   |   |   |   |
| <b>Judgement</b>                                    | 100   |   |   |   |   |
| <b>Environmental</b>                                | 100   |   |   |   |   |
| <b>Right of Way</b>                                 | 100   |   |   |   |   |
| <b>Utility</b>                                      | 100   |   |   |   |   |
| <b>Constructability</b>                             | 100   |   |   |   |   |
| <b>Schedule</b>                                     | 100   |   |   |   |   |

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

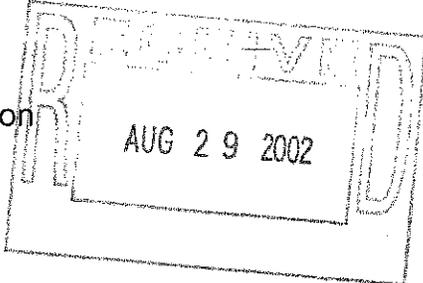
## INTERDEPARTMENT CORRESPONDENCE

FILE NH-006-4(31) Upson OFFICE Thomaston  
P.I.No. 322920  
SR 3 US 19 From Potato Creek to County Road  
Widening DATE August 20, 2002

FROM <sup>ASR</sup> *FOR* Thomas B. Howell, P.E., District Engineer

TO Meg Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**



Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

If additional information is needed, contact Bill Rountree, District Design Engineer, at (706) 646-6604.

WJR:AJR

CC: David Mulling, Project Review Engineer  
Harvey Keepler, State Environmental/Location Engineer  
Phillip Allen, State Traffic Safety and Design Engineer  
Marta Rosen, State Transportation Planning Administrator  
Herman Griffin, Office of Financial Management Administrator  
Paul Liles, State Bridge and Structural Design Engineer  
David Millen, District Preconstruction Engineer  
Lamar Pruitt, District Construction Engineer  
Keith Rohling, District Traffic Operations Engineer  
Ken Robinson, District Maintenance Engineer  
Debra Benton, District Environmentalist  
Tommy Cleveland, District Location Engineer  
Ethel White, District Scheduling Technician

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

OFFICE OF DISTRICT THREE DESIGN

PROJECT CONCEPT REPORT

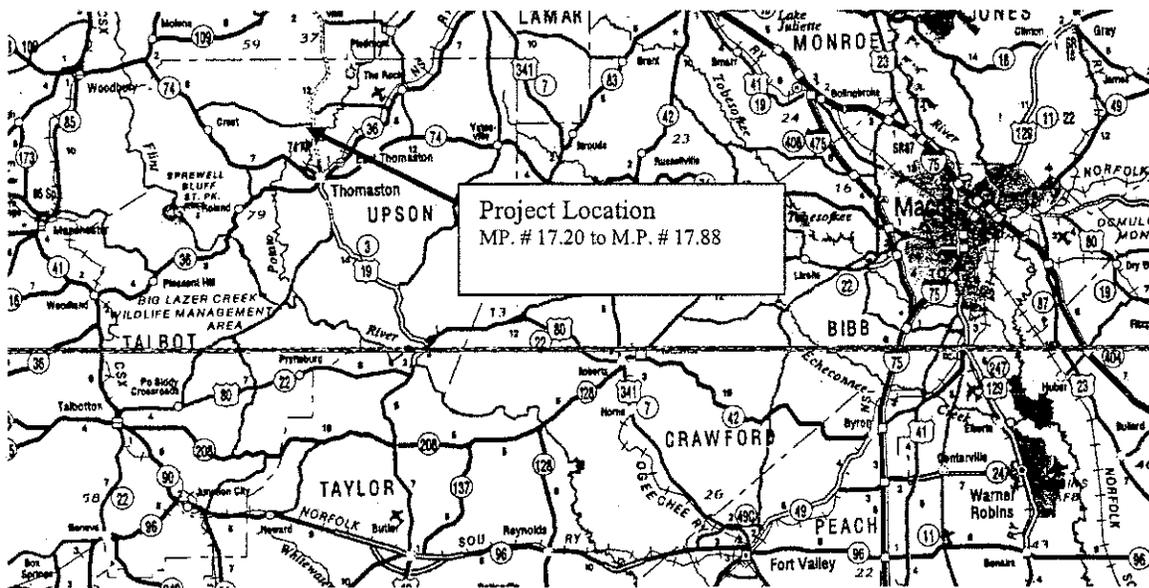
Project Number: NH-006-4(31)

UPSON

P. I. 322920

Federal Route Number: US 19

State Route Number: 3



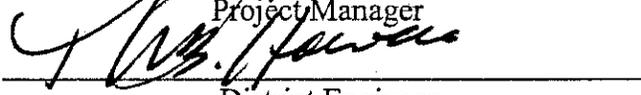
Project Concept Report page 2  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

Prepared by: ARCADIS/R. K. SHAH & ASSOCIATES, INC.

Recommendation for approval:

DATE 8/19/02

DATE 8-21-02

  
Project Manager  
  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_  
Office of Financial Management Administrator

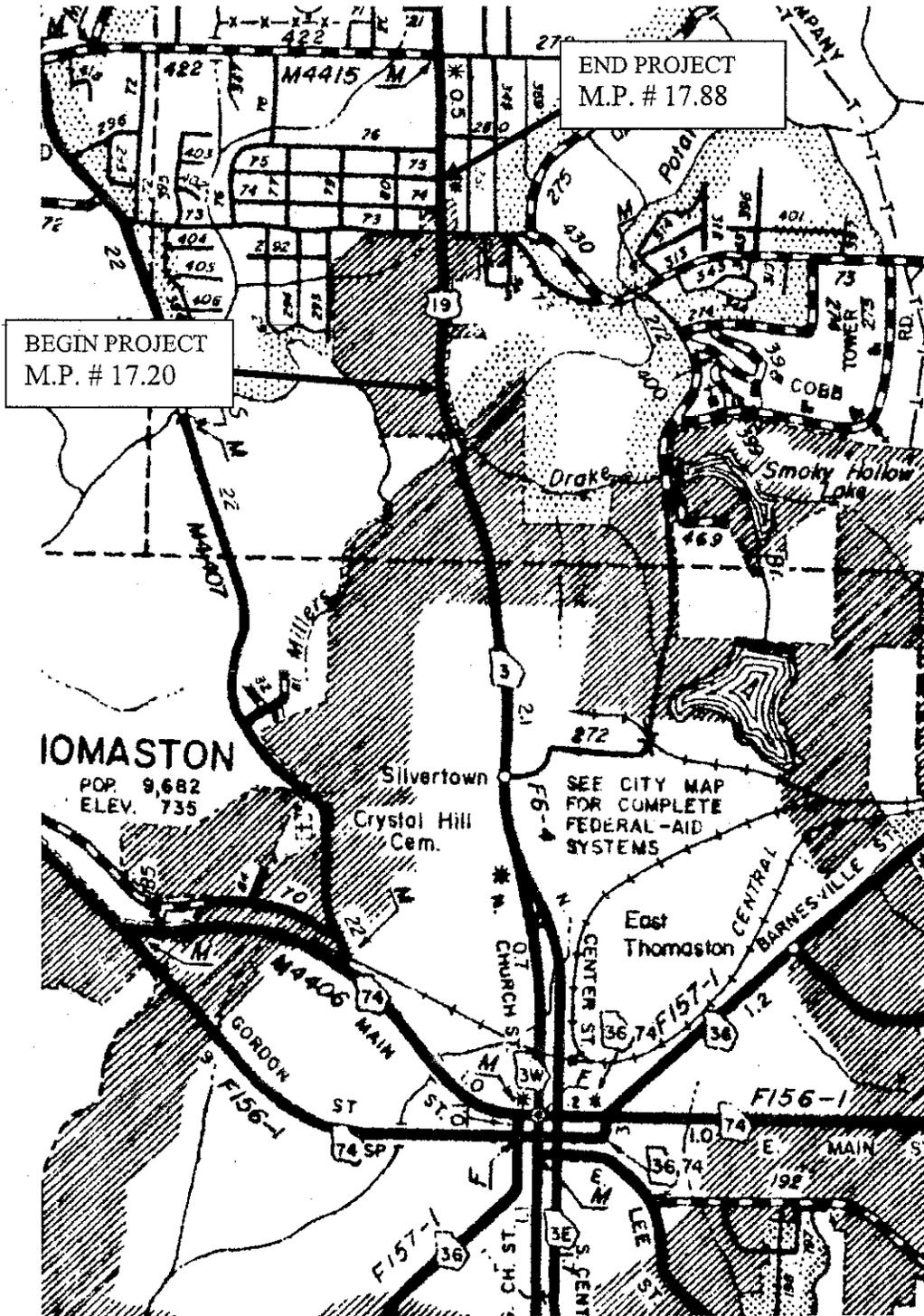
DATE \_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_  
State Bridge/Structural Engineer

LOCATION MAP



**NEED AND PURPOSE**  
**PROJECT NH-006-4(31) UPSON COUNTY**  
**P. I. NO 322920**  
 Intersection Improvements

**Background:**

Project NH-006-4(31) proposes to improve the intersection at SR3 / US19 and CR73 by widening SR3 / US19 and replacing the existing 12 foot flush median with a twenty foot raised median. The proposed improvement will provide a right turn lane for SR3 / US19 on both the north and south approaches. CR73 will be widened to provide a separate 12 foot left turn lane at the intersection for both the eastbound and westbound approach and a right turn lane will be added on the eastbound approach. CR73 will be widened from 400 feet west of Pine Street to Franklin Drive. This project will also provide 5 foot sidewalks on both sides of the roadway within the project limits and upgrade the existing traffic signal. Improving the intersections will provide better driving conditions as well as improving pedestrian accessibility along the SR3 / US19 and CR73 intersection. The existing road conditions at this intersection for SR3 / US19 consist of four ten foot lanes divided by a ten-foot, flush and paved median. CR73 currently consists of 2 ten-foot lanes.

**Projects In Area:**

The following projects are located within the area and are programmed in the Department's Construction Work and Long Range Programs:

| Project Number  | Project Description  | Project Schedule  |
|-----------------|--|---|
| P I No. 322922  | Bridge Replacement SR3 / US19 over Potato Creek in Thomaston   | PE - Auth.<br>ROW - 2003<br>CST - 2004                  |
| P I No. 0000297 | Widening SR3 / US19 from North of Potato Creek to Atwater Road | PE - Long Range<br>ROW - Long Range<br>CST - Long Range |

**Safety:**

The available accident data within the proposed project area showed that the accident, injury and fatality rates on SR3 / US19 and CR73 did not exceed the statewide averages for similar facilities. However, the proposed improvements are needed to relieve intersection congestion on SR3 / US19. The majority of the accidents that occurred along SR3 / US19 were either angle-intersect or rear-end accidents. These accidents can occur as the result of turning vehicles blocking through lanes or encroaching into opposing lanes. Below are accident data for SR3 / US19 and CR73 for the years 1995, 1996 and 1997 (the most recent year for which accident data is available). This data is compared to the statewide average for a similar facility.

Accident Data for SR3 / US19 (Urban Principal Arterial)

| Year          | 1995 |           | 1996 |           | 1997 |           |
|---------------|------|-----------|------|-----------|------|-----------|
|               | SR3  | Statewide | SR3  | Statewide | SR3  | Statewide |
| Accidents     | 72   |           | 89   |           | 50   |           |
| Accident Rate | 538  | 661       | 601  | 706       | 311  | 719       |
| Injuries      | 21   |           | 24   |           | 12   |           |
| Injury Rate   | 157  | 194       | 202  | 202       | 78   | 202       |
| Fatalities    | 0    |           | 0    |           | 0    |           |
| Fatality Rate | 0    | 1.44      | 0    | 1.30      | 0    | 1.43      |

Accident Data for CR73 (Urban Minor Arterial)

| Year          | 1995 |           | 1996 |           | 1997 |           |
|---------------|------|-----------|------|-----------|------|-----------|
|               | CR73 | Statewide | CR73 | Statewide | CR73 | Statewide |
| Accidents     | 8    |           | 5    |           | 4    |           |
| Accident Rate | 222  | 549       | 138  | 528       | 111  | 552       |
| Injuries      | 3    |           | 2    |           | 2    |           |
| Injury Rate   | 83   | 162       | 56   | 153       | 56   | 157       |
| Fatalities    | 0    |           | 0    |           | 0    |           |
| Fatality Rate | 0    | 1.30      | 0    | 1.42      | 0    | 1.43      |

Project Concept Report page 6  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

**Operational Analysis:**

Level of service (LOS) is defined as a qualitative measure describing operational conditions within a traffic stream. There are six identified LOS with letters 'A' through 'F'. LOS A represents the best operating conditions and LOS F represents the worst. LOS C is considered as acceptable and marks the beginning of a range of traffic flow in which level of driving comfort declines noticeably on the roadway. LOS E represents at or near capacity for traffic flow. LOS F represents heavily congested flow with traffic demands exceeding capacity. The AADT for the year 2000 on SR3 /US19 is 23,800 which is LOS 'B'. SR3 / US19 is projected to have an average daily traffic (ADT) of 36,000 in 2025 which is a LOS 'C'. CR73 had 3840 AADT for the year 2000 which is LOS 'B'. CR73 is projected to have an average daily traffic (ADT) of 10,300 in 2025 which is LOS 'D'.

**Need and Purpose:**

The purpose of the proposed improvements is to provide better turning radii for truck traffic, provide adequate storage capacity for turning movements at intersections through the addition of turning bays and provide safer intersections through realignment. This project will result in a reduction of turning vehicles blocking through traffic at intersections, reduction of turning trucks encroaching into opposing lanes, provision of safer driving conditions through the identified intersection and improve pedestrian accessibility.

Project Concept Report page 7  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: UPSON

**Description of the proposed project:** To improve existing SR 3/US 19 Intersection with County Road No. 73 in Thomaston Georgia. The project will widen SR 3/US 19 to replace existing 12 ft. +/- Flush Median with 20 ft. Raised Median. The project will also provide Right Turn Lane on Northbound and Southbound approaches. When completed the project will provide 4 Lane roadway divided with 20 ft. raised median and 12.0 ft. Urban Shoulder on SR 3/US 19 from 500 ft. north of Potato Creek to 700 ft. north of CR 73. The CR 73 will be widen to provide 12 ft. separate Left Turn Lane at the intersection. 12 ft. Right Turn Lane will be added on the eastbound approach. CR 73 will be widen from 400 ft. west of Pine St. to Franklin Dr.. The project will provide 5 ft. Sidewalk on both side of the Roadway within the project limits. As a part of the project Traffic Signal at this location will be upgraded.

Is the project located in a Non-attainment area?  Yes  No.

**PDP Classification:** Major

**Federal Oversight:** Full Oversight ( ), Exempt(X), State Funded( ), or Other ( )

**Functional Classification:** Urban Principal Arterial

**U. S. Route Number(s):** 19 **State Route Number(s):** 3

**Traffic (AADT):**

SR 3/US 19 - Current Year: (2005) 24,200 Design Year: (2025) 36,000  
K = 90; D = 52%; T= 4 %; 24 HOUR T = 6%

CR 73 - Current Year: (2005) 6,850 Design Year: (2025) 10,300  
K = 90; D = 52%; T= 4 %; 24 HOUR T = 6%

**Existing design features:**

- Typical Section: SR 3/US 19 – Substandard 4 lane divided with 8-10 ft. flush median and Urban Shoulder. CR 73- Substandard 2 lane rural roadway.
- Posted speed: SR 3/US 19 -45 mph& CR 73-40 mph
- Maximum degree of curvature: SR 3/US 19-5°-15'-00" and CR 73-4°-00'-00"
- Maximum grade: SR 3/US19- 5.06 % & CR 73- 4.20 %
- Width of right of way: SR 3/US 19 -80 ft.-100 ft.: CR 73 & 50-60 ft.
- Major structures: None
- Major interchanges or intersections along the project: County Road # 73
- Existing length of roadway segment and the beginning mile logs for each county segment. SR 3/US 19- 3560 ft.(from MP. # 17.20 to M.P. # 17.88) and CR 73-1775 ft.

**Proposed Design Features:**

- Proposed typical section(s): Four 12 ft. lanes with 20 ft. Raised Concrete Median and 12 ft. Urban Shoulder with 5 ft. Sidewalk and 12 ft Right Turn Lane on Northbound and Southbound Approaches on SR 3/US 19. Two 12 ft. lanes with separate 12 ft. Left Turn Lane and 12 ft. Urban Shoulder with 5 ft. Sidewalk on CR 73. 12 ft. separate Right Turn Lane is proposed on the west approach.
- Proposed Design Speed Mainline: SR 3/US 19- 45 mph. & CR 73- 40 mph.
- Proposed Maximum grade Mainline: 5.062 % Maximum grade allowable 7.5 %.
- Proposed Maximum grade Side Street: 3.29 %Maximum grade allowable 9 .0 %.
- Proposed Maximum grade driveway: 15 %
- Proposed Maximum degree of curve 5°-15'-00".Maximum degree allowable = 8°-45'-00.
- Right of way
  - Width : 93 ft. Minimum-SR 3/US 19 and 61 ft. Minimum-CR 73.
  - Easements: Temporary ( ), Permanent (X ), Utility ( ), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit (X), Other ( ).
  - Number of parcels: 49
  - Number of displacements:
    - Business: 11
    - Residences: None
    - Mobile homes: None
    - Other: None
- Structures:
  - Bridges –None
  - Retaining walls-Will be required at McDonalds to reduce impact.
- Major intersection- County Road No. 73
- Traffic control during construction: Stage construction will be required.

- Design Exceptions to controlling criteria anticipated:

|                             | <u>UNDETERMINED</u> | <u>YES</u> | <u>NO</u> |
|-----------------------------|---------------------|------------|-----------|
| HORIZONTAL ALIGNMENT:       | ( )                 | ( )        | (X)       |
| ROADWAY WIDTH:              | ( )                 | ( )        | (X)       |
| SHOULDER WIDTH:             | ( )                 | ( )        | (X)       |
| VERTICAL GRADES:            | ( )                 | ( )        | (X)       |
| CROSS SLOPES:               | ( )                 | ( )        | (X)       |
| STOPPING SIGHT DISTANCE:    | ( )                 | ( )        | (X)       |
| SUPERELEVATION RATES:       | ( )                 | ( )        | (X)       |
| HORIZONTAL CLEARANCE:       | ( )                 | ( )        | (X)       |
| SPEED DESIGN:               | ( )                 | ( )        | (X)       |
| VERTICAL CLEARANCE:         | ( )                 | ( )        | (X)       |
| BRIDGE WIDTH:               | ( )                 | ( )        | (X)       |
| BRIDGE STRUCTURAL CAPACITY: | ( )                 | ( )        | (X)       |

- Design Variances; None
- Environmental concerns: Potential UST site on northwest and northeast corner of SR 3/US 19 @ CR 73 intersection.
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ( ), No ( X ),
  - Categorical exclusion ( X ),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
  - Environmental Impact Statement (EIS) ( ).
- Utility involvements: City of Thomaston-Water, Sewer, & Electrical; Upson County- Water; Upson EMC-Electrical; GA. Power-Electrical; Charter Communication-Cable TV; Atlanta Gas & Light-Gas and Alltel Communication-Tele Communication

**Project responsibilities:**

- Design-RKS&A/ARCADIS/District # 3
- Right of Way Acquisition,-District # 3
- Relocation of Utilities-Utility Owner
- Letting to contract- GDOT
- Supervision of construction-GDOT
- Providing material pits-Construction Contractor
- Providing detours-Construction Contractor

Project Concept Report page 10  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: UPSON

### **Coordination**

- Initial Concept Meeting-August 16,2001 – Minutes not recorded
- Concept meeting date and brief summary. –July 16, 2002; Minutes Attached
- P. A. R. meetings, dates and results.-Not Required
- FEMA, USCG, and/or TVA-Not Required
- Public involvement. –Public Information Meeting to be held
- Local government comments.- Requested Upson County do Utilities-08-10-01
- Other projects in the area.-BRN-006-4(32), Upson; P.I. # 322922
- Other coordination to date.-None
- Railroad – N/A

### **Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: 6 Months.
- Time to complete preliminary construction plans: 6Months.
- Time to complete right of way plans: 3 Months.
- Time to complete the Section 404 Permit: N/A
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 12 Months.
- List other major items that will affect the project schedule: Utility Relocations

**Other alternates considered: No Build**

**Comments: The proposed improvements of SR 3/US 19 and CR 73 intersection will provide Safer Traffic operation for current and projected Traffic demands. Providing Sidewalks within project limits will provide safer alternative transportation mode for pedestrians.**

**The current Concept is the expanded version of the original project providing a 20 ft. raised median from MP. # 17.2 to MP. # 17.88 on SR 3/US 19 which will provide safer traffic operation. The programmed project description needs to change with this concept.**

### **Attachments:**

1. Cost Estimates:
  - a. Construction including E&C,-ATTACHED
  - b. Right of Way, - ATTACHED
  - c. Utilities.-ATTACHED
2. Typical sections,- ATTACHED
3. Capacity analysis- ATTACHED
4. Minutes of Concept Team Meetings,-ATTACHED

Project Concept Report page 11  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: UPSON

PRELIMIANRY COST ESTIMATE-CONCEPT DEVELOPMENT

PROJECT : .NH-006-4(31) , UPSON COUNTY- P.I.-322920

DATE: JUNE 18, 2002

PROJECT COST:

A. RIGHT OF WAY: (See Attached) \$ 13,259,300.00

B. REIMBURSABLE UTILITIES: (See Attached) \$ 1,079,221.00

C. CONSTRUCTION:

1. Major Structure N/A

SUB TOTAL C-1 \$ 0.00

2. Grading and Drainage

A. Earthwork-Excavation Unclassified  
5,700 C.Y. @ \$ 4.00/CY \$ 22,800.00  
Borrow: 20,000 C.Y.@ \$ 6.00/C.Y. \$120,000.00

B. Drainage-  
1.011 mi (\$ 342,000/mile) \$345,762.00

SUB TOTAL C-2 \$488,562.00

3. Base and Paving

A. 12" GR. AGGR BASE CRS-(6750 ton @ \$ \$101,250.00

B. ASPH. CONC. 5" Base -(2800 ton@\$ 40/ \$112,000.00

C. ASPH. CONC. 2" -"B" (1125 ton@\$ 40/t \$ 45,000.00

D. ASPH. CONC. 1.5" -"E" (2350 ton@\$ 40 \$ 94,000.00

E. ASPH. CONC. Leveling (13600 ton@\$ 4 \$544,000.00

F. Tack Coat-(1700 gallon x \$ 1.00/gal \$ 1,700.00

SUB TOTAL C-3 \$897,950.00

Project Concept Report page 12  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: UPSON

PRELIMIANRY COST ESTIMATE-CONCEPT DEVELOPMENT

PROJECT : .NH-006-4(31) , UPSON COUNTY- P.I.-322920

DATE: JUNE 18, 2002

4. Lump Items

|   |              |
|---|--------------|
| A. Traffic Control                        | \$ 52,000.00 |
| B. Clearing and Grubbing-16.00 Ac. (\$ 30 | \$ 48,000.00 |
| C. Grassing- 6.0 Ac.(\$ 5000/Ac)          | \$ 30,000.00 |
| D. Erosion Control                        | \$ 37,000.00 |
| E. Traffic Signal at SR 3/US 19 and CR    | \$ 75,000.00 |
| SUB TOTAL C-4                             |              |
|   | \$242,000.00 |

5. Miscellaneous

|   |              |
|---|--------------|
| A. Singing and Striping                   | \$ 10,000.00 |
| B. Field Office                           | \$ 30,000.00 |
| C. Curb and Gutter-10,440 ft. (\$ 10/ft.) | \$104,400.00 |
| D. Sidewalk- 5800SY (\$ 25/SY)            | \$145,000.00 |
| E. Median Paving-3000 SY (\$3 0/SY)       | \$ 90,000.00 |
| E. Driveway Paving-2500 SY (\$3 0/SY)     | \$ 75,000.00 |
| SUB TOTAL C-5                             |              |
|   | \$454,400.00 |

6. Special Features

|                                       |              |
|---------------------------------------|--------------|
| A. Retaining Wall- 1000 SF(\$ 200/LF) | \$200,000.00 |
| SUB TOTAL C-6                         |              |
|                                       | \$200,000.00 |

Project Concept Report page 13  
Project Number: NH-0006-4(31)  
P. I. Number: 322920  
County: UPSON

PRELIMIANRY COST ESTIMATE-CONCEPT DEVELOPMENT

PROJECT : .NH-006-4(31) , UPSON COUNTY- P.I.-322920

DATE: JUNE 18, 2002

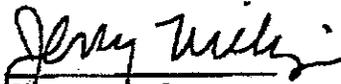
ESTIMATE SUMMARY

|    |                         |                             |    |                |
|----|-------------------------|-----------------------------|----|----------------|
| A. | RIGHT OF WAY:           | (See Attached)              | \$ | 13, 259,300.00 |
| B. | REIMBURSABLE UTILITIES: | (See Attached)              | \$ | 1, 079,221.00  |
| C. | CONSTRUCTION:           |                             |    |                |
|    | 1. Major Structures N/A |                             | \$ | 0.00           |
|    | 2. Grading and Drainage |                             |    | \$488,562.00   |
|    | 3. Base and Paving      |                             |    | \$897,950.00   |
|    | 4. Lump Items           |                             |    | \$242,000.00   |
|    | 5. Miscellaneous        |                             |    | \$454,400.00   |
|    | 6. Special Features     |                             |    | \$200,000.00   |
|    |                         | SUB TOTAL CONSTRUCTION COST | \$ | 2,282, 912.00  |
|    |                         | E. & C (10 %)               |    | \$228,291.00   |
|    |                         | INFLATION (5 %/YEAR)-2 YEAR |    | \$228,291.00   |
|    |                         | TOTAL CONSTRUCTION COST     | \$ | 2,739,494.00   |

**GRAND TOTAL PROJECT COST: \$ 17,078,015.00**

**THIS PROJECT IS 100 % IN CONGRESSIONAL DISTRICT # 8**

# Preliminary Right of Way Cost Estimate

  
**Harvey Hooker**  
 Right of Way Administrator  
 By: Jerry Milligan

**Date:** June 20, 2002  
**Project:** NH-006-4(31)Upton  
**Existing/Required R/W:** Varies/Varies  
**Project Terminal:** SR / US 19 @ CR 73 Intersection Improvement  
**Project Description:** SR / US 19 @ CR 73 Intersection Improvement

**P.I. Number:** 322920  
**No. Parcels:** 49

**Land:**

|   |                |            |
|---|----------------|------------|
| Commercial R/W 1.61 acres @ \$ 125,000 / acre | \$ 201,300     |            |
| R/W esmt. 4.65 acres @ 125,000 / acre x 50 %  | <u>290,600</u> | \$ 491,900 |

**Improvements:**  
 Commercial buildings, light standards, signs, curbing, paving  
 and misc. site improvements 2,782,000

**Relocation:**  
 Commercial 11 Parcels 275,000

**Damage :**

|                   |               |                |
|-------------------|---------------|----------------|
| Cost to Cures     | \$ 235,000    |                |
| Proximity damages | <u>35,000</u> | <u>270,000</u> |

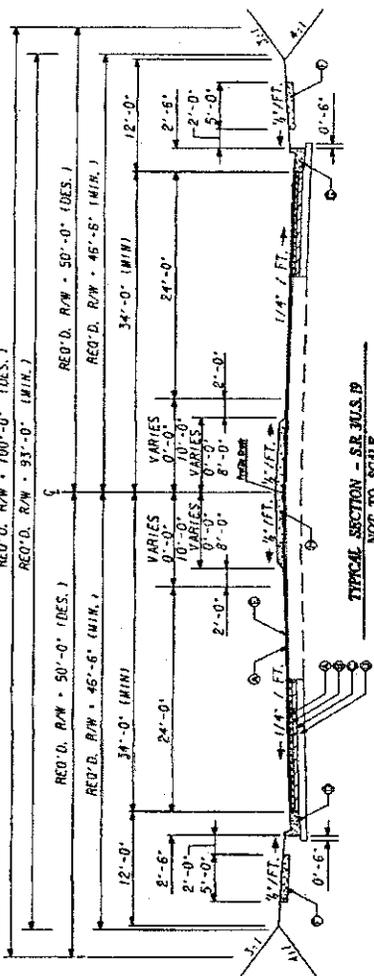
**Net Cost** \$ 3,818,900

|                        |      |                  |
|------------------------|------|------------------|
| <b>Net Cost</b>        |      | \$ 3,818,900     |
| Scheduling Contingency | 55 % | 2,100,400        |
| Adm/Court Cost         | 60 % | 3,551,600        |
| Inflation Factor       | 40 % | <u>3,788,400</u> |
|                        |      | \$ 13,259,300    |

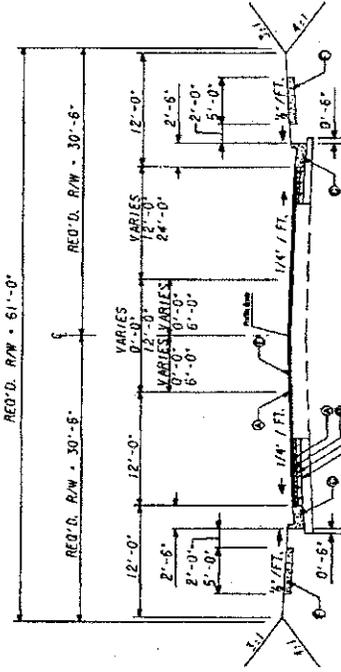
**Total Cost** **\$ 13,259,300**



|       |                |      |
|-------|----------------|------|
| STATE | PROJECT NUMBER | DATE |
| GA    | NH-006-4(31)   |      |



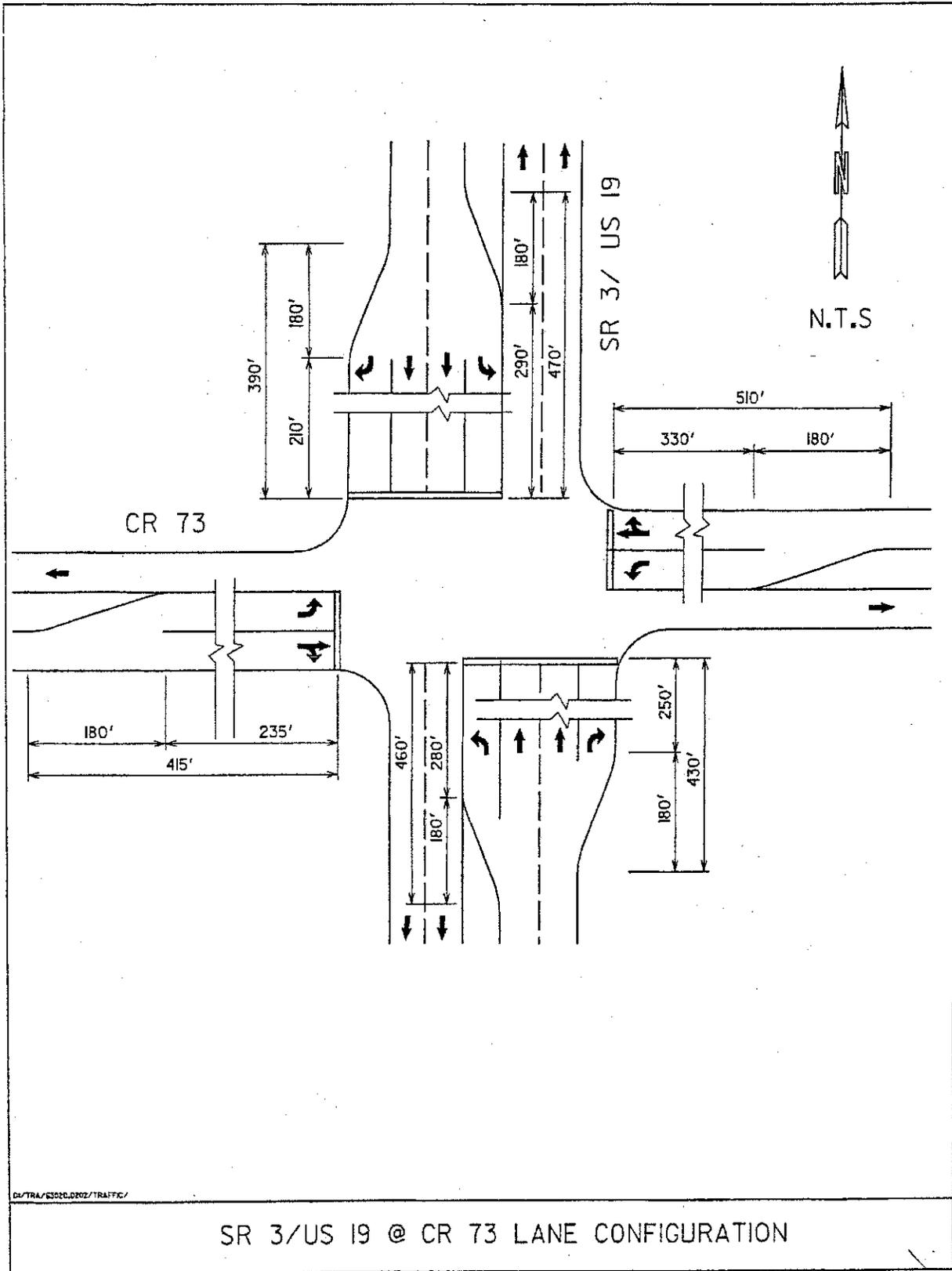
TYPICAL SECTION - SR JULS 19  
 NOT TO SCALE

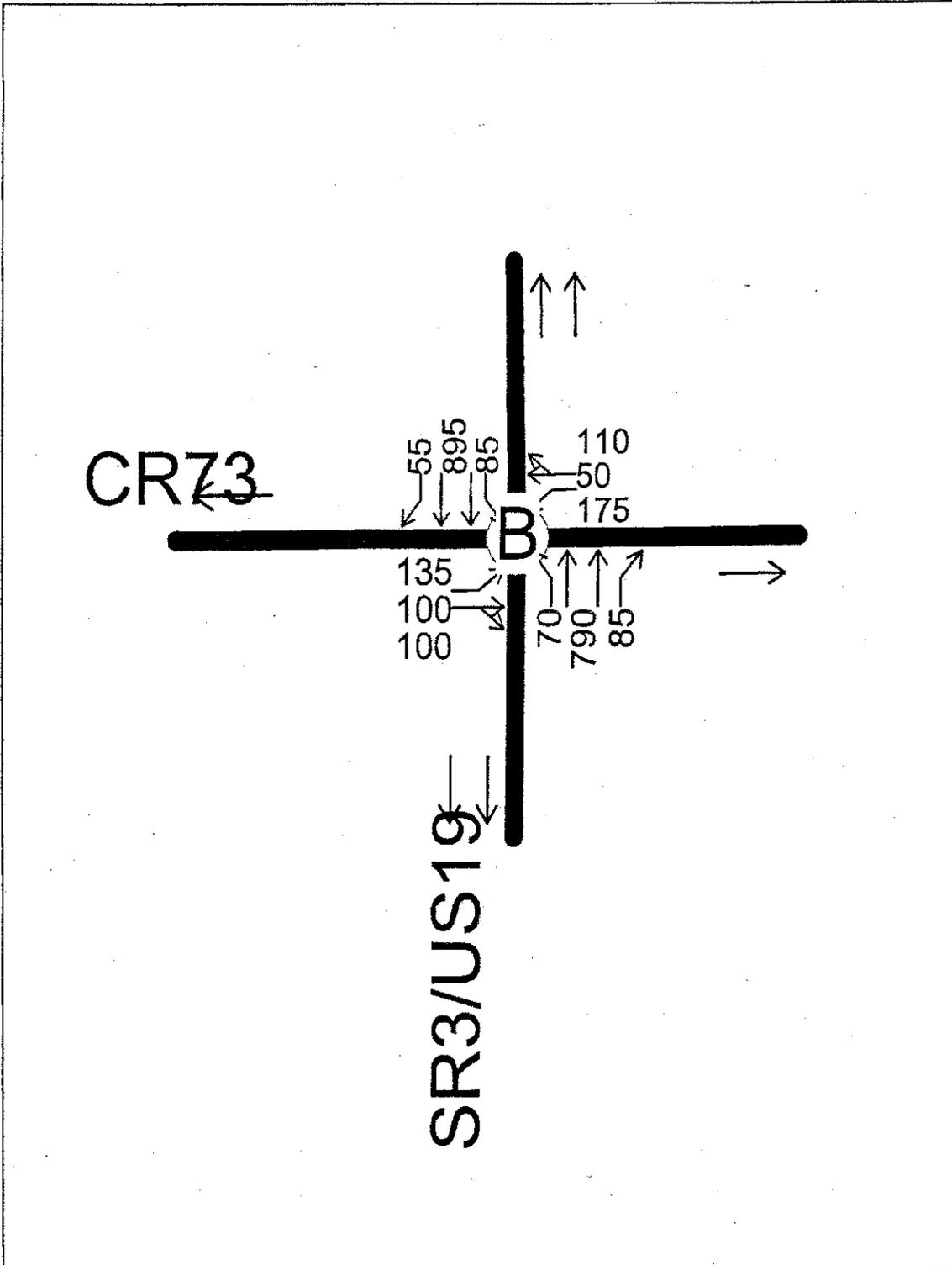


TYPICAL SECTION - COUNTY ROAD 71  
 NOT TO SCALE

- ① ASPHALTIC CONCRETE, 12.5mm SUPERPAVE (85 LB./SQ. YD.) MIX DESIGN LEVEL --
- ② ASPHALTIC CONCRETE, 19.0mm SUPERPAVE (220 LB./SQ. YD.) MIX DESIGN LEVEL --
- ③ ASPHALTIC CONCRETE, 25.0mm SUPERPAVE (550 LB./SQ. YD.) MIX DESIGN LEVEL --
- ④ 12" GRADED AGGREGATE BASE COURSE
- ⑤ ASPHALTIC CONCRETE LEVELING
- ⑥ 4" CONCRETE SIDEWALK
- ⑦ 8"x30" CONCRETE CURB & GUTTER TYPE 2, GA. STD. 9032B
- ⑧ 4" CONCRETE MEDIAN, GA. STD. 9032B

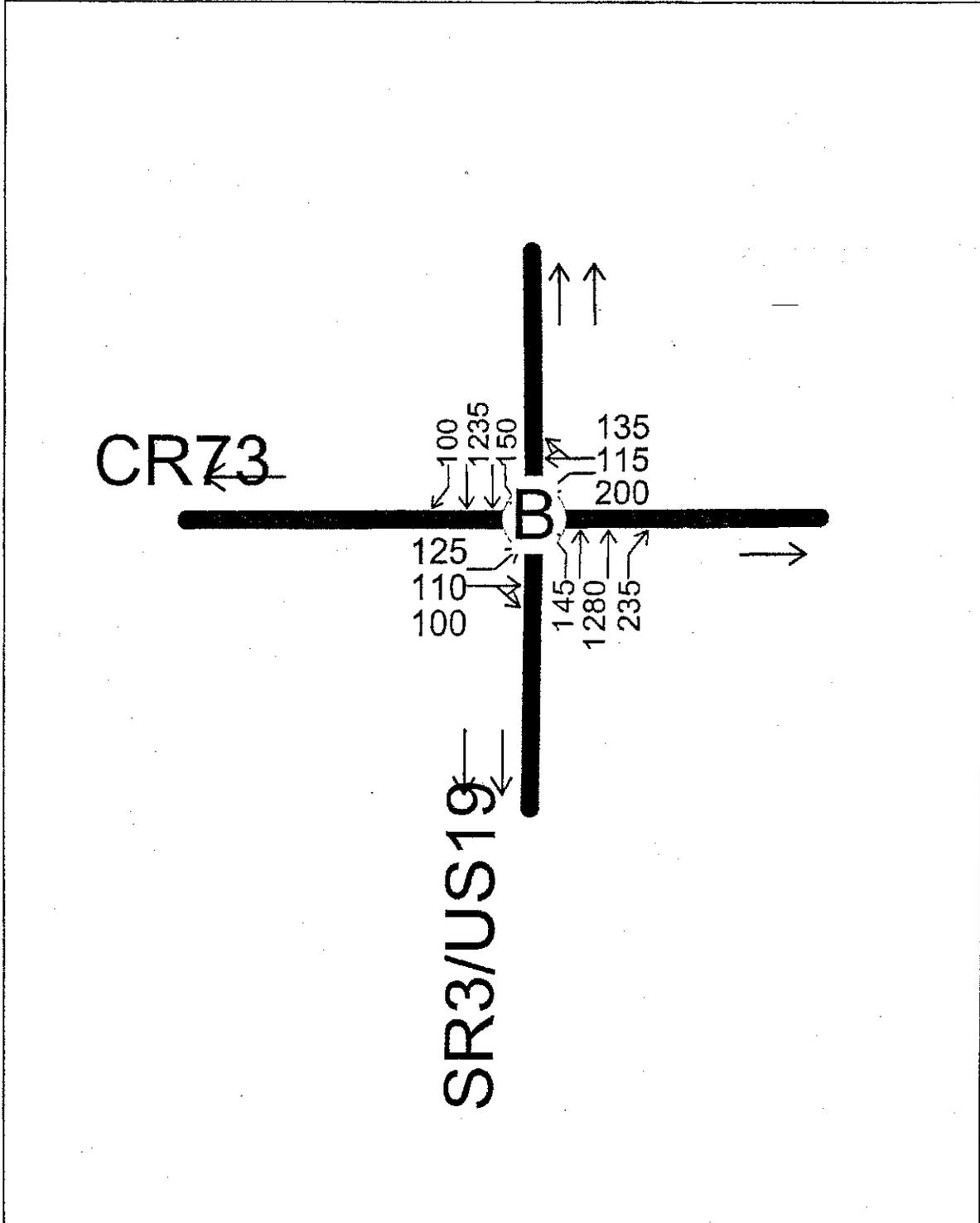
|  |  |   |   |                                      |
|--|--|---|---|--------------------------------------|
| R.K. SHIH & ASSOCIATES, INC.<br>TRANSPORTATION DIVISION<br>1800 SANDHURST PARKWAY<br>SUITE 100<br>ATLANTA, GEORGIA 30328<br>TELEPHONE 770/435-9629 |  | DATE<br>REVISIONS<br>DATE<br>REVISIONS<br>DATE<br>REVISIONS | SCALE<br>1" = 5'<br>1" = 10'<br>1" = 20'<br>1" = 40'<br>1" = 80'<br>1" = 160'<br>1" = 320'<br>1" = 640'<br>1" = 1280' | LEAD BY: R.K. SHIH<br>DATE: 07/11/01 |
| GEORGIA<br>DEPARTMENT OF TRANSPORTATION<br>TYPICAL SECTION<br>PROJECT NH-006-4(31)<br>COUNTY UPSON   |  |   |   |                                      |





PM 2025  
Levels of Service

6/4/2002



Project Concept Report page 20  
 Project Number: NH-006-4(31)  
 P.I. Number: 322920  
 County: Upson

Queuing and Blocking Report  
 AM 2025

6/4/2002

Intersection: 3: CR73 & SR3/US19

| Movement              | EB  | EB  | WB  | WB  | NB  | NB  | NB  | NB  | SB  | SB  | SB  | SB  |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served     | L   | TR  | L   | TR  | L   | T   | T   | R   | L   | T   | T   | R   |
| Maximum Queue (ft)    | 128 | 114 | 64  | 81  | 70  | 109 | 86  | 47  | 51  | 149 | 123 | 32  |
| Average Queue (ft)    | 84  | 70  | 50  | 45  | 44  | 65  | 53  | 31  | 32  | 96  | 76  | 22  |
| 95th Queue (ft)       | 137 | 118 | 71  | 78  | 69  | 104 | 89  | 44  | 61  | 155 | 134 | 41  |
| Link Distance (ft)    |     | 690 |     | 559 |     | 583 | 583 |     |     | 534 | 534 |     |
| Upstream Blk Time (%) |     |     |     |     |     |     |     |     |     |     |     |     |
| Queuing Penalty (veh) |     |     |     |     |     |     |     |     |     |     |     |     |
| Storage Bay Dist (ft) | 300 |     | 300 |     | 500 |     |     | 300 | 500 |     |     | 300 |
| Storage Blk Time (%)  |     |     |     |     |     |     |     |     |     |     |     |     |
| Queuing Penalty (veh) |     |     |     |     |     |     |     |     |     |     |     |     |

Network Summary

|                              |   |
|------------------------------|---|
| Network-wide Queuing Penalty | 0 |
|------------------------------|---|

Project Concept Report page 21  
 Project Number: NH-006-4(31)  
 P.I. Number: 322920  
 County: Upson

Queuing and Blocking Report  
 PM 2025

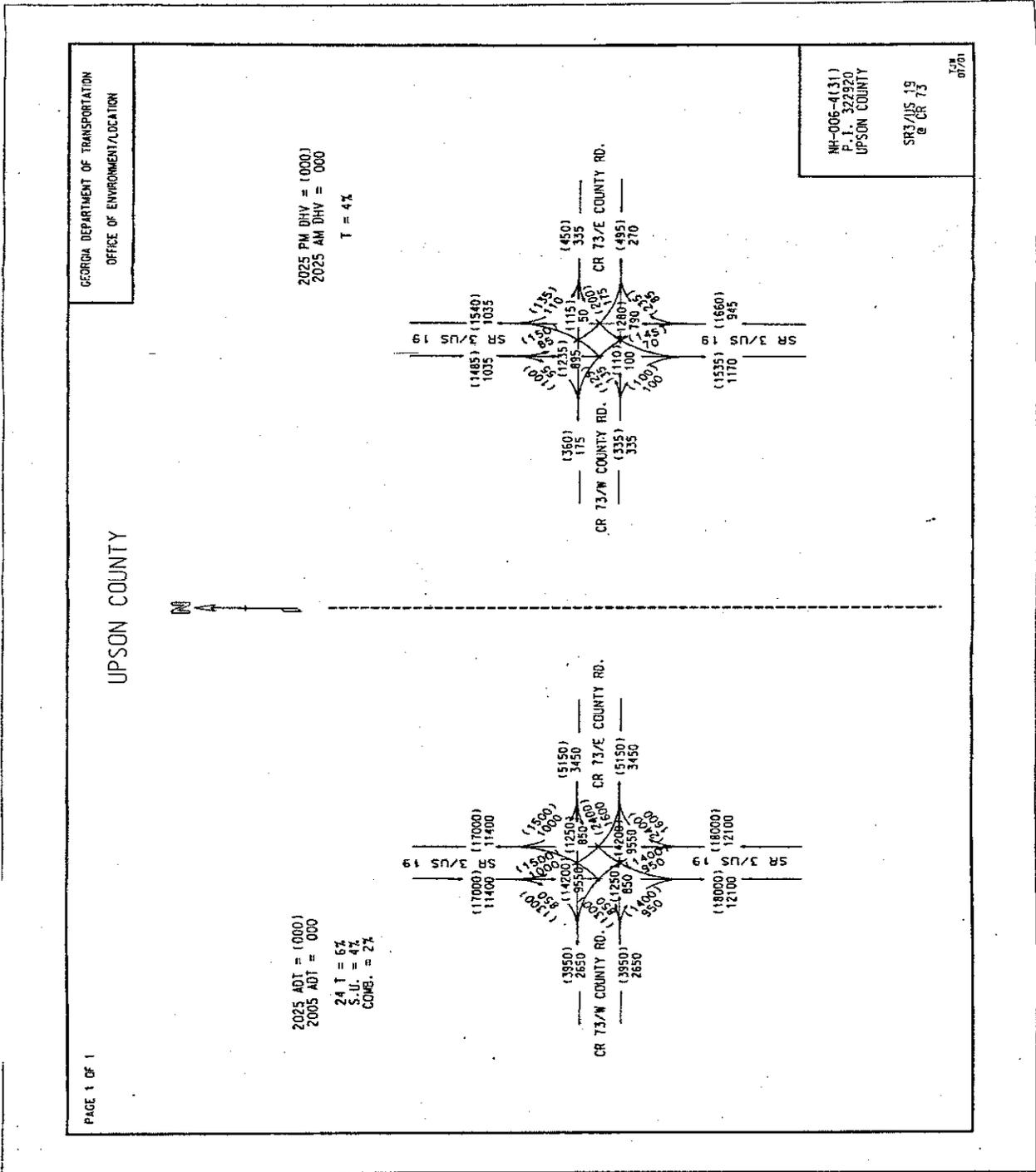
6/4/2002

Intersection: 3: CR73 & SR3/US19

| Directions Served     | EB  |     | WB  |     | NB  |     | SB  |     | EB  |     | WB  |    | NB |   | SB |      |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|----|------|
|                       | L   | TR  | L   | TR  | L   | T   | T   | R   | L   | T   | T   | R  | L  | T | T  | R    |
| Maximum Queue (ft)    | 109 | 162 | 200 | 235 | 88  | 259 | 240 | 70  | 107 | 265 | 282 | 30 |    |   |    |      |
| Average Queue (ft)    | 71  | 108 | 79  | 115 | 68  | 158 | 160 | 46  | 66  | 209 | 200 | 21 |    |   |    |      |
| 95th Queue (ft)       | 105 | 155 | 188 | 227 | 91  | 277 | 253 | 71  | 103 | 304 | 311 | 40 |    |   |    |      |
| Link Distance (ft)    |     | 690 |     | 559 |     | 583 | 583 |     |     | 534 | 534 |    |    |   |    |      |
| Upstream Blk Time (%) |     |     |     |     |     |     |     |     |     |     |     |    |    |   |    |      |
| Queuing Penalty (veh) |     |     |     |     |     |     |     |     |     |     |     |    |    |   |    |      |
| Storage Bay Dist (ft) | 300 |     | 300 |     | 500 |     |     | 300 | 500 |     |     |    |    |   |    |      |
| Storage Blk Time (%)  |     |     |     |     |     |     |     |     |     |     |     |    |    |   |    | 0.00 |
| Queuing Penalty (veh) |     |     |     |     |     |     |     |     |     |     |     |    |    |   |    | 0    |

Network Summary

|                              |   |
|------------------------------|---|
| Network-wide Queuing Penalty | 0 |
|------------------------------|---|



GEORGIA DEPARTMENT OF TRANSPORTATION  
 OFFICE OF ENVIRONMENT/LOCATION

NH-006-4(31)  
 P.I. 322920  
 UPSON COUNTY  
 SR3/US 19  
 @ CR 73  
 01/20

Project Concept Report page 23  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson  
**MEETING REPORT**

ARCADIS G&M, Inc.  
2849 Paces Ferry Road  
Suite 400  
Atlanta  
Georgia 30339  
Tel 770 431 8666  
Fax 770 435 2666

Subject:  
SR 3 / US 19 Intersection with CR 73 in  
Thomaston, Georgia  
NH-006-4(31) Upson County  
P.I. No. 322920  
Concept Team Meeting

### Transportation

ARCADIS Project No.:

Place/Date of Meeting:  
GDOT District 3 Office Conference Room  
July 16, 2002 9:00 a.m.

Report No.:

Minutes by:  
Alan E. Rainer, PE

Issue Date:  
17 July 2002

Participants:

|                   |                        |
|-------------------|------------------------|
| Alan Rainer       | Arcadis                |
| Raju Shah         | R.K. Shah & Assoc.     |
| Garrett Sauber    | R.K. Shah & Assoc.     |
| John Moretto      | GDOT                   |
| Jack Reed         | GDOT                   |
| Tommy Cleveland   | GDOT                   |
| Albert Woodard    | Optech                 |
| Daniel R. Vese    | Optech                 |
| Glenn A. Williams | GDOT                   |
| Danny Haines      | EA. TECH/Alitel        |
| Greg Cromer       | Alltel                 |
| Sam Brewton       | Mayor of Thomaston     |
| Patrick Comiskey  | City of Thomaston      |
| Greg Nossett      | Upson County           |
| Otis Walker       | City of Thomaston      |
| Cornelius Ives    | City of Thomaston      |
| Gene McKissick    | GDOT                   |
| David Mulling     | GDOT                   |
| Regis Williams    | Upson Co.              |
| W.C. McDaniel     | Upson. Co. Water Dept. |
| Frank Spraggins   | City of Thomaston      |
| Randy Ekerberg    | Optech/City of Thom.   |
| Keith Rohling     | GDOT                   |
| Bill Rountree     | GDOT                   |
| Ken Robinson      | GDOT                   |
| Deidre Hayes      | GDOT                   |
| Ronny Stubbs      | GDOT                   |
| David Bcall       | Charter Communication  |
| Jim Walton        | Georgia Power          |

Not Present:

Copies:

Project Concept Report page 24  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

1. Bill Rountree of GDOT District 3 called the meeting to order and briefly described the project. Introductions were then made.
2. Raju Shah of R.K. Shah & Associates then gave a detailed presentation of the project. The project limits of SR 3/US 19 are from just north of Potato Creek to approximately 800' north of CR 73. The existing five lane roadway will be modified to a four lane road divided with 20' raised median. The signal at CR 73 will be upgraded. Curb and gutter and sidewalks will be added throughout the project limits.
3. Close coordination with the bridge project at Potato Creek, BRN-006-4(32) will be required. These two projects may or may not be let to construction at the same time. At this time, the design of the bridge project is ahead of the design of this project.
4. There is a water vault and meter pits in the SW corner of the SR 3 / CR 73 intersection (the McDonald's corner). A sewer lift station is also located on this corner. It is anticipated that the road construction in this area will impact the water vault, meter pits and lift station. A small retaining wall will probably be constructed on this corner as well. Close coordination with the affected utilities will be required.
5. It was stated that this project is scheduled for construction in FY 2005.
6. An LGPA was sent to Upson County in October 2001 requesting that the County pay for any utility relocations. No response has been received from the County. No LGPA has been sent to the City of Thomaston as of this date.
7. The project Need and Purpose statement is still needed from GDOT Office of Planning. The Office of Planning was not represented at this meeting. However, the basic purpose of this project is to improve safety. The current roadway has narrow lanes and high traffic volumes and many driveways. Constructing standard width lanes and installing a raised median will improve the operation of this roadway.
8. The parcel previously indicated as being potentially historically eligible is no longer considered as such. There are no historical sites within the project.
9. All construction easements need to be shown as permanent. It is likely that most will become temporary but cannot show as temporary until right-of-way negotiations indicate as such.
10. R.K. Shah will provide existing plans to GDOT for distribution to the local utility companies within two weeks. GDOT requested 15 sets be provided.
11. A Categorical Exclusion (CE) document is required for this project.
12. A Public Information Meeting (PIM) will be held for this project after the concept report is approved.
13. No PAR meeting is required.
14. The City of Thomaston has a lift station near parcel 29 and 31 that may be impacted. The City said it would like to explore the elimination of this lift station by running a new gravity sewer to the existing County sewer line on the opposite side of SR 3/ US 19.

Project Concept Report page 25  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

15. It was stated to change the time to purchase right-of-way in the concept report to 18 months.
16. Add a statement to the report indicating 4 months will be required for the design of the utility relocations.
17. The utility cost estimate that is required in the concept report was given to Raju Shah. The right-of-way cost estimate to be furnished by GDOT has not been received by R. K. Shah. GDOT requested that Raju contact GDOT downtown to make sure they are aware that the easement cost estimate must be for permanent and not temporary.
18. The following are comments by the various GDOT offices and departments attending this meeting:

Planning – no one present (still need Need & Purpose from Planning)

Financial Management – no one present

Environmental – no one present but did provide the following information for this meeting : a CE is anticipated; there are two UST sites; no history issues

Utilities – Glen Williams of GDOT; City of Thomaston asked about funding for utilities. At this time GDOT has not allocated any funds for the relocation of utilities – the relocation costs will be born by the City, the County and other utility owners. The City stated they would have a hardship with the relocation costs. A representative for Alltel said they have an underground duct system that ends near McDonald's. A representative for Atlanta Gas Light Company stated they have a 2", 4" and 6" line that will probably need to be relocated. A representative from Ga. Power distribution stated they would have to wait for the plans from R.K. Shah before they knew if there would be any conflicts or not. Ga. Power did ask that any strain poles for signals or overhead signs be their pole rather than have separate strain poles and power poles right next to each other. A representative from Charter Communications said they had fiber going up US 19 starting at McDonald's, but would handle the relocation.

Right-of-way – show all construction easements at this time as permanent; requested the number of displacements be verified as it seemed a couple of buildings not indicated in the report as a displacement would be.

Traffic Operations – show strain poles on the preliminary construction plans; several parcels have multiple driveways and Traffic Ops wants as many of these combined into one driveway as possible. Traffic Ops will mark up plans provided by R. K. Shah showing which drives need to be eliminated / combined. Specifically, the first drive on the right just north of CR 73 needs to be eliminated. Also, the three drives for the parcel on the left just north of CR 73 need to be combined in a manner to be only two drives. The drive into "Peking" site is also an issue. Make sure signing and marking plans extend north of CR 73 widening far enough to properly tie back to existing.

Construction – at the south end of the project, the first drive on the left into the Ford dealership has an existing drainage problem. Excessive amounts of runoff flow down the drive and sheet flows across SR 3. This will be investigated during preliminary design.

Maintenance – someone was present but had to leave meeting before offering comments

Location – a Waffle House has been constructed since database delivered to R. K. Shah. R. K. Shah has some additional survey needs as well and will prepare a written request to GDOT Location to provide update.

Project Concept Report page 26  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

City / County – no additional comments

Others – David Mulling, GDOT requested the amount of leveling shown in the construction estimate. It was explained that the leveling quantity was a lot but it was valid. A lot of leveling is required to smooth out existing profile and make superelevation corrections. The leveling quantity will be double checked. The significant grade change on CR 73 was also discussed. Some temporary pavement needs to be added to the construction estimate since traffic cannot remain on existing CR 73 while the grade is raised +/- 10'. It was also stated to ensure the latest ADA requirements are adhered to when setting strain poles, pedestrian access at crosswalks.

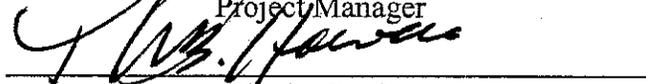
Project Concept Report page 2  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

Prepared by: ARCADIS/R. K. SHAH & ASSOCIATES, INC.

Recommendation for approval:

DATE 8/19/02

DATE 8-21-02

  
Project Manager  
  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

Office of Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE 9/2/02

  
State Bridge/Structural Engineer

Project Concept Report page 2  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

Prepared by: ARCADIS/R. K. SHAH & ASSOCIATES, INC.

Recommendation for approval:

DATE 8/19/02

DATE 8-21-02

William J. Scurticea  
Project Manager  
J. M. Howard  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
Office of Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety & Design Engineer

DATE 9/10/02

David J. Mullery *new*  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge/Structural Engineer

Department of Transportation  
State of Georgia

---

INTERDEPARTMENTAL CORRESPONDENCE

File: NH-006-4(31) / Upson County  
P.I. No. 322920

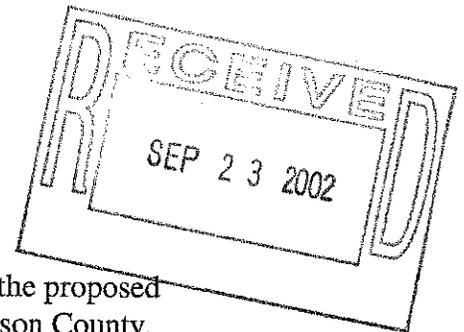
Office: Traffic Safety & Design  
Atlanta, Georgia

Date: September 18, 2002

From: *PMA* Phillip M. Allen, State Traffic Safety and Design Engineer

To: Meg Pirkle, Assistant Director of Preconstruction

Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the proposed Intersection improvements at SR 3 / US 19 @ CR 73 in Upson County.

The Office of Traffic Safety & Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/sz

Attachment (signature page)

Cc: Harvey Keepler, Environment/Location Engineer  
Thomas Howell, District Engineer – Thomaston  
Attention: David Millen, District Preconstruction Engineer  
David Mulling, Engineer Services, w/ attachment  
Marta Rosen, State Transportation Planning Administrator  
Chuck Hasty, TMC  
General Files  
Office Files

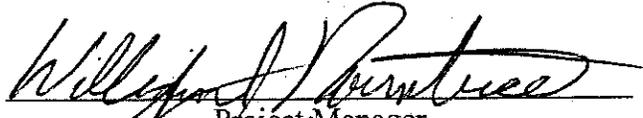
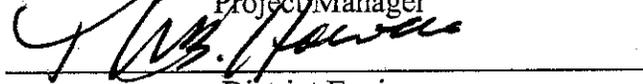
Project Concept Report page 2  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

Prepared by: ARCADIS/R. K. SHAH & ASSOCIATES, INC.

Recommendation for approval:

DATE 8/19/02

DATE 8-21-02

  
Project Manager  
  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

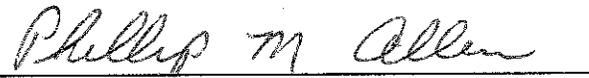
DATE \_\_\_\_\_

\_\_\_\_\_  
Office of Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE 9-9-02

  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge/Structural Engineer

Project Concept Report page 2  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

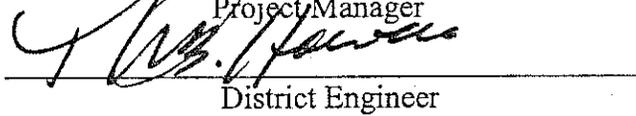
Prepared by: ARCADIS/R. K. SHAH & ASSOCIATES, INC.

Recommendation for approval:

DATE 8/19/02

DATE 8-21-02

  
Project Manager

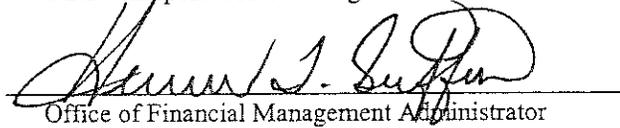
  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE 8-30-02

  
Office of Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge/Structural Engineer

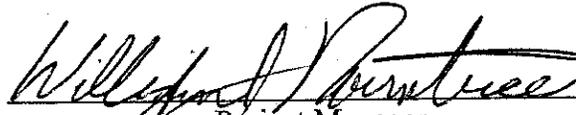
Project Concept Report page 2  
Project Number: NH-006-4(31)  
P. I. Number: 322920  
County: Upson

Prepared by: ARCADIS/R. K. SHAH & ASSOCIATES, INC.

Recommendation for approval:

DATE 8/19/02

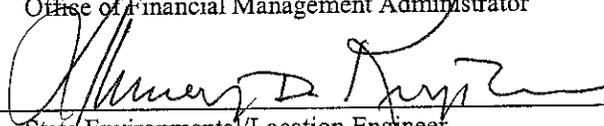
DATE 8-21-02

  
Project Manager  
  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_  
Office of Financial Management Administrator

DATE 9/9/02  
  
State Environmental/Location Engineer

DATE \_\_\_\_\_  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_  
State Bridge/Structural Engineer