ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-9350(2) Rockdale County
P. I. No. 752360

OFFICE Preconstruction

DATE November 17, 1997

FROM 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:

Walker Scott
Bobby Mustin
David Studstill (ATTN: Harvey Keepler)
Jerry Hobbs
Herman Griffin
Marta Rosen (ATTN: Michael Henry)
Marion Waters
Toni Dunagan
Paul Liles
Jim Hitt (Traffic Ops)
Don Mills
Mitch Fowler
Joe Palladi

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-9350(2) Rockdale County
P.I. No. 752360

OFFICE Preconstruction

DATE October 28, 1997

FROM Walker W. Scott, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the widening and reconstruction of Flat Shoals Road from 140.0m west of Old Salem Road to 364.0m east of Salem Road/SR 162 for a total of 2.66km. This project includes the intersection improvement at Old Salem Road from 260.0m south of Flat Shoals Road to 80.0m north of Flat Shoals Road. The majority of the Flat Shoals Road corridor consists of a two lane rural roadway centered within 30.0m of right-of-way on Flat Shoals Road and 25.0m of right-of-way on Old Salem Road. Flat Shoals Road provides east/west traffic distribution to central Rockdale County residential areas. The Flat shoals Road corridor from Old Salem Road to Salem Road experienced 53 vehicular accidents in the three year period including 1991, 1992, and 1993. The most common accident type was rear-end collisions (23), followed by angle accidents (17), at intersections and driveways. The proposed improvements will provide arterial and intersection capacity increases to meet future traffic demands. The estimated base year traffic on Flat Shoals Road is 10,280 VPD in the year 2000 with projected volumes of 18,140 VPD in 20 years. The posted speed and the design speed are 70km/h.

The proposed construction will provide four, 3.6m lanes with a 6.1m raised median for the entire project length. The existing 3.0m x 2.7m box culvert will be extended to accommodate the proposed widening. Access will be controlled by driveway permits. A design exception will be required at the Salem Road intersection with Flat Shoals Road due to the deflection in the alignment at the point of intersection. Traffic will be maintained utilizing stage construction.

Environmental concerns include requiring a COE 404 permit; an Environmental Assessment will be prepared; a public hearing will be held; one (1) possible UST site impacted; time saving procedures are not appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$5,311,000	$3,480,000	LR	LR
Right-of-Way & Utilities*	Local	Local		

STP-9350(2) Rockdale
October 28, 1997

*Rockdale County signed contract on 3-26-96 to be responsible for preliminary engineering, right-of-way acquisition, utility relocation, and all construction costs over $3,470,000.

This project conforms to the current Transportation Improvement Program (TIP) of the Atlanta Regional Commission (ARC). The environmental document will be approved by December 31, 1997, and this project will be "grandfathered". I recommend this project concept be approved.

WWS:JDQ/cj

Attachment

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

APPROVE _____
Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: STP-9350(2) Rockdale
P.I. NUMBER 752360

OFFICE: Atlanta, Georgia

DATE: October 9, 1997

FROM: Bob Mustin, DTM Project Review Engineer

TO: C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**

We have reviewed the concept report submitted October 7, 1997 by the letter from Joseph P. Palladi dated October 2, 1997 and have no comments.

The estimated costs for the project are as follows:

Construction	$	3,783,000
Inflation	$	1,045,000
E & C	$	483,000
Right of Way	$	? (LGPA)
Reimbursable Utilities	$	? (LGPA)

DTM

c: Joe Palladi - Attention: Bill Moskal

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED
OCT 07 1997
PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE STP-9350(2) Rockdale County
Flat Shoals Road Widening
P. I. No. 752360

OFFICE Atlanta, Georgia

DATE October 2, 1997

FROM Joseph P. Palladi, P.E., State Urban Design Engineer

TO Wayne Hutto, P.E., Assistant Director of Preconstruction

SUBJECT **Proposed Project Concept Report**

Transmitted is the proposed project Concept Report for the widening of Flat Shoals Road from Old Salem Road to Salem Road.

Please take the necessary steps to process the report through the Department in accordance with the project review process.

JPP:JDW:RC
Attachment

cc: David Studstill, w/attachment
Marion Waters, w/attachment
Mitch Fowler, w/attachment
Bob Mustin, w/attachment
Frank Danchetz
Walker W. Scott, Jr.

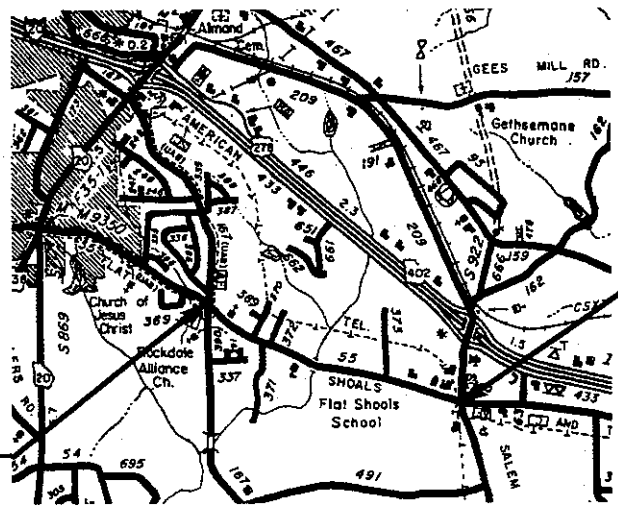
Department of Transportation

State of Georgia

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number:STP-9350 (2) Rockdale County
Flat Shoals Road from Old Salem Road to Salem Road/S.R. 162
P.I. Number:752360
Federal Route Number: N/A
State Route Number:N/A



RECOMMENDATION FOR APPROVAL:

10/3/97 _____
DATE STATE URBAN DESIGN ENGINEER

_____ _____
DATE STATE ENVIRONMENT/LOCATION ENGINEER

_____ _____
DATE STATE TRAFFIC OPERATIONS ENGINEER

_____ _____
DATE DISTRICT ENGINEER

_____ _____
DATE PROJECT REVIEW ENGINEER

K:\WP\6496\CONCEPT.WPD

PROJECT CONCEPT REPORT
Prepared by Greenhorne & O'Mara, Inc. for Rockdale County

DATE: August 26, 1997

PROJECT NUMBER: STP-9350 (2) COUNTY: Rockdale

DESCRIPTION: Flat Shoals Road Widening and reconstruction from Old Salem Road to Salem Road/S.R. 162.

P.I. NO.: 752360 U.S. ROUTE NO.: NONE STATE RT. NO.: NONE

LOCATION: Flat Shoals Road from Old Salem Road to Salem Road/S.R. 162 in Conyers, Rockdale County, Georgia.

PROJECT LENGTH: 2.66 km

TRAFFIC

CURRENT	PROJECTED
YEAR 2000 AADT 10,280	YEAR 2020 AADT 18,140

PDP CLASSIFICATION	NON-CA	CA	EX	SF	FUNCTIONAL CLASSIFICATION
MAJOR EXISTING	( )	( )	(X)	( )	Urban Collector

EXISTING DESIGN

TYPICAL SECTION: Two 3.6m lanes with variable width graded shoulders; 30.5m R/W.

POSTED SPEED	MIN. EXISTING RADIUS OF CURVE	MAX. EXISTING GRADE
70 km/h	435m	6.5%

EXISTING MAJOR STRUCTURES

FEATURES INTERSECTED: NONE

S.RTG:_____ LENGTH:_____ WIDTH:_____

PROJECT NEED & PURPOSE: SEE ATTACHED

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: Four Lane Urban Section, four 3.6m travel lanes, 6.0m raised median with 3.6m outside shoulders and 200mm X 750mm curb and gutter on both sides of the roadway.

RIGHT-OF-WAY WIDTH: 28 meters

DESIGN SPEED: 70 km/h

MIN. RADIUS OF CURVE: ALLOWABLE: 215 m PROPOSED:435 m

MAX. GRADE: ALLOWABLE: 8.5% PROPOSED: 6%

TYPE ACCESS: Regulated by Local Government

TRAFFIC CONTROL DURING CONSTRUCTION: Staged construction required, the traffic will be maintained at all times.

PROPOSED STRUCTURES

Extend existing 3.0m X 2.7m box culvert

DESIGN EXCEPTIONS TO BE REQUIRED

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
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)

NUMBER OF PARCELS: 67

DISPLACEMENTS: None

LEVEL OF ENVIRONMENTAL ANALYSIS: Environmental Assessment

PUBLIC INVOLVEMENT: Public Hearing required by Environmental Assessment

PERMITS REQUIRED (COE 404, WATER QUALITY, TVA): COE 404, Nationwide

TIME SAVINGS PROCEDURES APPROPRIATE: NO

LOCAL GOVERNMENT COMMITMENTS: LGPA Signed 03-26-96, Local Government responsible for P.E., R.O.W., Utilities and all Construction Costs over $3,470,000.00.

OTHER PROJECTS IN THE AREA:

NH-035-1(26), SR 138, SR 20 TO I-20
STP-0869(12), SR 20, HONEY CREEK TO SR 138
STP-9338(5), PARKER ROAD BRIDGE OVER I-20
STP-9349(4), PARKER RD., FLAT SHOALS TO CULPEPPER

CONCEPT TEAM MEETING DATE: November 13,1996

PROBABLE LOCATIONS OF USTS: EXISTING GAS STATION AND CONVENIENCE STORE ON THE NW AND SW CORNERS OF FLAT SHOALS ROAD AND SALEM ROAD.

PROBABLE LOCATIONS OF HAZARDOUS WASTE: None known at this time.

OTHER ALTERNATES CONSIDERED: NO BUILD

COMMENTS:

(1) Median openings along the project corridor are as follows:

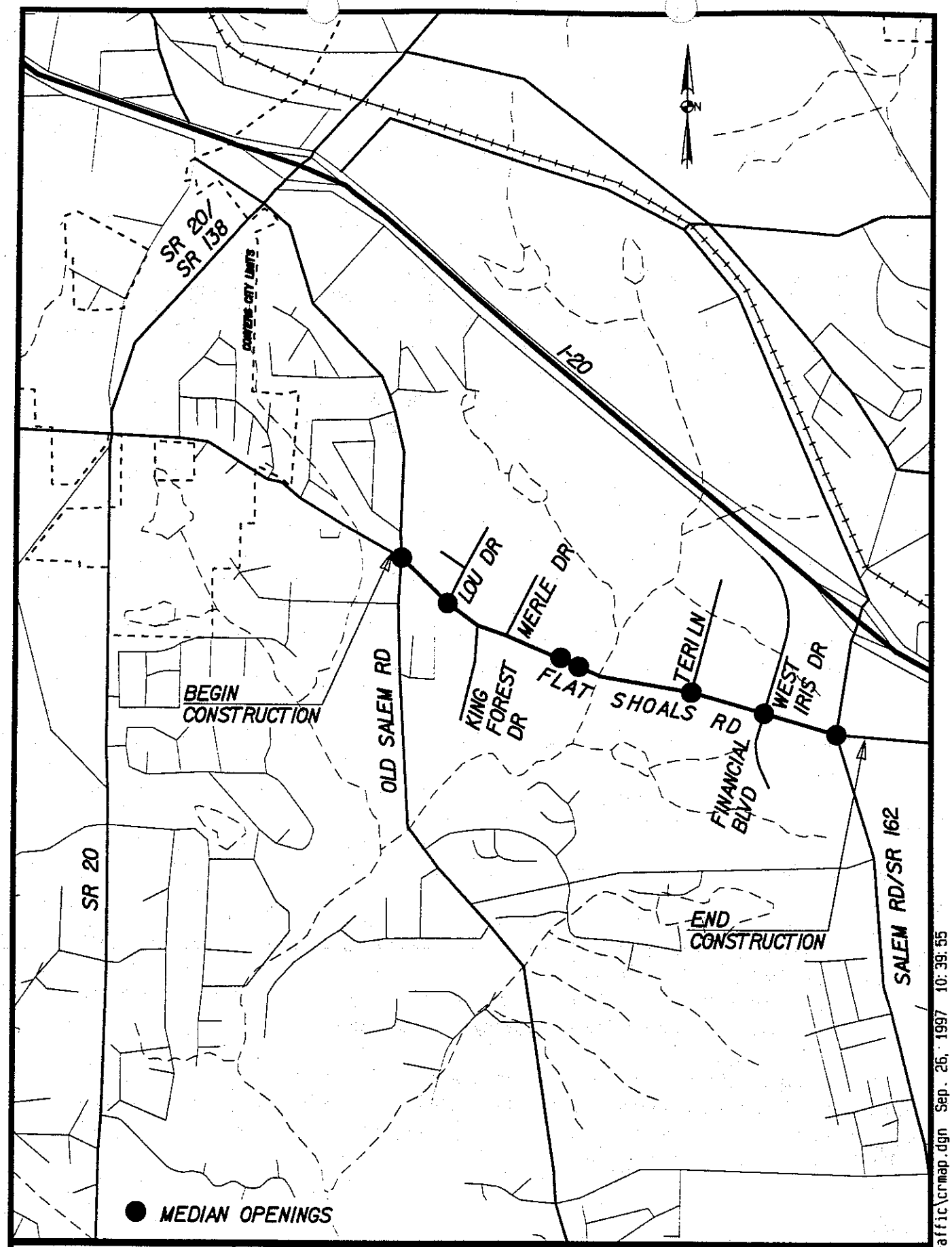
LOCATION	STATION	SPACING
*Old Salem Road	50+001.00	
		424m
Lou Drive	50+425.00	
		460m
West School Entrance	50+885.00	
		122m**
East School Entrance	51+007.00	
		517m
Teri Lane	51+524.00	
		387m
*West Iris/ Financial Dr.	51+911.00	
		277m
*Salem Road	52+188.00	

* Existing signal to be adjusted
** Design variance to be required

(2) Design variance will be required at the Old Salem Road intersection with Flat Shoals Road due to the skew of the intersection angle. Reconstruction of this intersection was completed by the Department in 1996. Realignment of Old Salem Road would impact the church properties at the NE and NW quadrants of the intersection.

(3) Design exception will be required at the Salem Road intersection with Flat Shoals Road due to the deflection in the alignment at the point of intersection. The through movement on Flat Shoals Road through this intersection is a minor movement. Most vehicles (75%) turn either north or south onto Salem Road. Providing a deflection in the alignment avoids further impacts to the commercial properties at the NE and NW quadrants of the intersection.

ATTACHMENTS: NEED AND PURPOSE STATEMENT, LOCATION MAP, TYPICAL SECTIONS, ACCIDENT HISTORY, PRELIMINARY COST ESTIMATE, CONCEPT TEAM MEETING MINUTES



GREENHORNE & O'MARA
2110 NEWMARKET PARKWAY
SUITE 208
MARIETTA, GEORGIA 30067
PHONE: (770) 988-9555

LOCATION MAP

FIGURE 1

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STP-9350(2), Rockdale County

P.I. No. 752360

Flat Shoals Road Widening and Reconstruction from Old Salem Road to Salem Road/S.R. 162

NEED AND PURPOSE STATEMENT

Flat Shoals Road is functionally classified as an urban collector roadway east of S.R. 20/S.R. 138. The proposed project is the widening of Flat Shoals Road beginning 140 m (459 ft) west of Old Salem Road to 364 m (1194 ft) east of Salem Road (SR 162) for a subtotal distance of 2664 m (8280 ft). Included is the intersection improvement at Old Salem Road beginning 260 m (853 ft) south of Flat Shoals Road to 80 m (262 ft) north of Flat Shoals Road for a subtotal distance of 340 m (1115 ft). The total length for the project is 3004 m (9854 ft). The majority of the Flat Shoals Road corridor consists of a two-lane rural roadway centered within approximately 30 meters (100 feet) of right-of-way on Flat Shoals Road and 25 m (82 ft) of right-of-way on Old Salem Road. Turning and other auxiliary lanes are present at West Iris Drive and at several neighborhood entrances along the corridor.

Flat Shoals Road provides east/west traffic distribution to central Rockdale County residential areas. Flat Shoals Road is becoming more congested. The existing land use patterns along Flat Shoals Road consist mainly of commercial, light industrial, single-family residential, agricultural, and undeveloped. Adjacent land uses generate moderate commercial and residential traffic volumes. These conditions cause traffic congestion at intersections and driveways. The existing traffic lanes will not be sufficient to meet future traffic demands.

The Flat Shoals Road corridor from Old Salem Road to Salem Road experienced 53 vehicular accidents in the three-year period including 1991, 1992 & 1993. The most common accident type was rear-end collisions (23), followed by angle accidents (17) at intersections and driveways. These two collision types are characteristic of the lack of left-turn lanes into side streets. Arterial and intersection capacity increases along with the addition of left-turn lanes at median openings should reduce the number of accidents which occur within the corridor.

The Flat Shoals Road corridor has three major areas that need improvement:

1. Congested area along Flat Shoals Road between Old Salem Road and Salem Road will not meet future traffic demand.
2. There are no left-turn lanes at intersections between Old Salem Road and West Iris Dr.
3. Some areas of the pavement are showing signs of distress and failure.

The purpose of the proposed project is to improve traffic flow on Flat Shoals Road, correct roadway deficiencies, increase intersection capacity at Old Salem Road and Salem Road, and serve the transportation demand generated by increasing population and through traffic. This will result in improved safety and lower user cost.

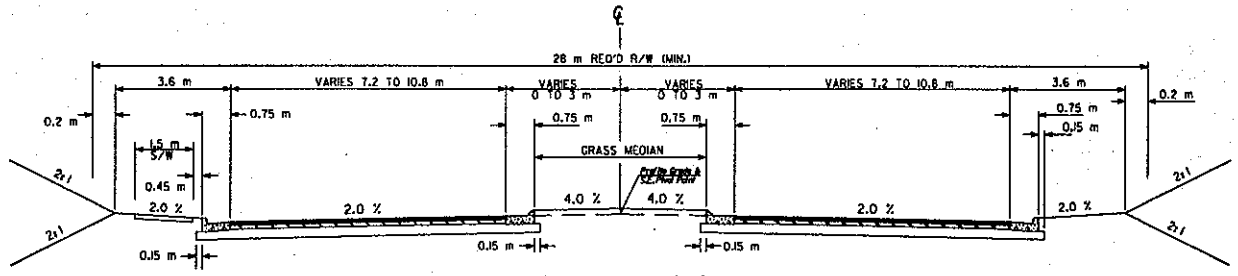
STP-9350(2) - Flat Shoals Road will provide continuity with a newly widened phase of Flat Shoals Road at its western terminus. The eastern project terminus ties into the existing Flat Shoals Road east of Salem Road. The posted speed limit will be 70 kph (45 mph).

Other road improvement projects near the subject project are S.R. 138/S.R.20 from relocated S.R. 138 to I-20, (NH-035-1(26)), S.R. 20 widening from Honey Creek Road to relocated S.R. 138 (STP-0869(12)), Klondike Road from Smyrna Road to Johnson Road (STP-9338(5)), Parker Road intersection improvements at Flat Shoals Road (STP-9349(4)), and the Parker Road Bridge project (STP-NH 20-2(133)).

The project (RO025) is included in the Transportation Improvement Program (FY 1996-2001) of the adopted Atlanta Regional Transportation Plan (FY 1987-2010).

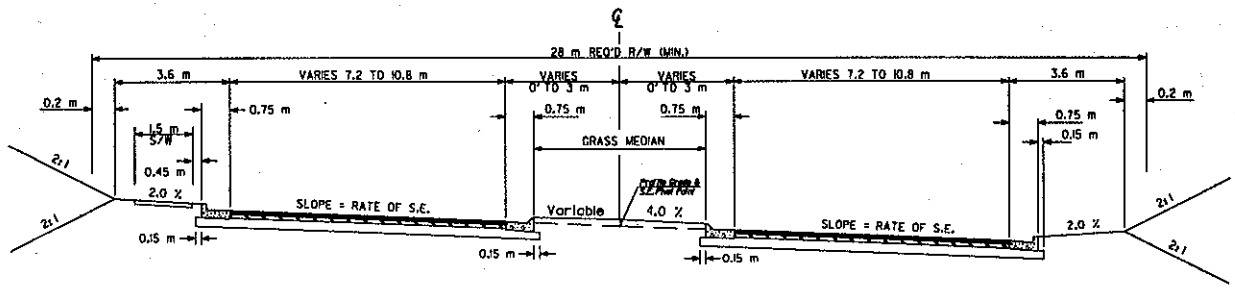
STATE	PROJECT NUMBER
GA.	STP-0350(2)

TYPICAL SECTION NO. 1



TANGENT SECTION

TYPICAL SECTION NO. 2



SUPERELEVATED SECTION

ROCKDALE COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 10/13/96

GREENHORNE & O'MARA
2110 NEWMARKET PARKWAY
SUITE 208
MARIETTA, GEORGIA 30067
PHONE: (770) 988-9555

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF URBAN DESIGN

TYPICAL SECTIONS FLAT SHOALS ROAD

MAINLINE

DRAWING NO. 03 - 01

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ACCIDENT HISTORY

The following is a summary of the accident data available for Flat Shoals Road:

	1991	1992	1993
Total Accidents	28	18	7
Total Injuries	12	6	2
Total Fatalities	0	0	0
Accident Rate	960	620	240
Statewide Accident Rate	490	440	420
Injury Rate	420	210	70
Statewide Injury Rate	210	190	170

Statewide Accident Rate and Injury Rate are for Urban Collectors.
All rates are accidents per hundred million vehicle miles traveled.

FILE NAME: O:PM/6496/PM/CONCEPT/ESTIMATE

CONCEPT ESTIMATE SUMMARY

DATE: AUGUST 26, 1997

PROJECT: FLAT SHOALS ROAD, OLD SALEM ROAD TO SALEM ROAD
GDOT NO.: STP-9350(2)
P.I. NO.: 752360

A. RIGHT-OF-WAY	LOCAL
B. UTILITIES	LOCAL
C. GRADING COMPLETE	$551,000
D. PAVEMENT	$1,211,249
E. CONCRETE WORK	$599,077
F. DRAINAGE	$821,331
G. TRAFFIC CONTROL	$315,000
H. EROSION CONTROL	$60,000
I. GUARDRAIL	$19,575
J. SIGNING, STRIPING, SIGNALS	$133,210
K. GRASSING & LANDSCAPING	$20,000
L. MISCELLANEOUS	$53,000
TOTAL CONSTRUCTION ESTIMATE	$3,783,441
INFLATION (5 YRS @ 5%)	$1,045,295
10% E & C	$482,874
TOTAL	$5,311,610

PRELIMINARY COST ESTIMATE
URBAN DESIGN OFFICE

DATE: AUGUST 26, 1997

PREPARED BY: GREENHORNE & O'MARA, INC.

PROJECT NO.: STP-9350(2)

FILE NAME: O:PM/6496/PM/CONCEPT/ESTIMATE

P.I. NO.: 752360

PROJECT LENGTH: 2.66 km

PROJECT DESCRIPTION / CONCEPT: WIDENING TO FOUR LANES WITH 6 m RAISED MEDIAN FROM OLD SALEM ROAD TO SALEM ROAD.

EXISTING ROADWAY: TWO LANE ROAD WITH NO MEDIAN.

TRAFFIC (ADT):	EXISTING	DESIGN
	8,720	18,140

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

PROJECT COSTS (METRIC UNITS)

A. RIGHT-OF-WAY					LOCAL
B. UTILITIES					LOCAL
C. GRADING					
1. IN-PLACE EMBANKMENT	27100	M3	$10.00	$271,000	
2. CLEAR & GRUB		LS		$280,000	
				SUBTOTAL	$551,000
D. PAVEMENT					
1. GR. AGG. BASE	30236	MG	$14.50	$438,422	
2. ASPH. CONC. E	4279	MG	$35.44	$151,648	
3. ASPH. CONC. B	4742	MG	$36.95	$175,217	
4. ASPH. CONC. BASE	11908	MG	$36.24	$431,546	
5. LEVELLING	167	MG	$37.23	$6,217	
6. TACK COAT	27189	L	$0.24	$6,525	
7. AGG. SURF. COURSE	87	MG	$19.24	$1,674	
				SUBTOTAL	$1,211,249
E. CONCRETE WORK					
1. CURB & GUTTER	8768	LM1	$33.70	$295,482	
2. SIDEWALK	3902	M2	$28.06	$109,490	
3. CONC. MEDIAN	1498	M2	$42.27	$63,320	
4. DRIVEWAY CONC.	809	M2	$28.06	$22,701	
5. VALLEY GUTTER	622	M2	$32.90	$20,464	
6. RET. WALL	52	M3	$405.00	$21,060	
7. REINF. STEEL	8500	KG	$1.04	$8,840	
8. BOX CULVERT	129	M3	$400.00	$51,600	
9. PVMT. WIDENING	34	M3	$180.00	$6,120	
				SUBTOTAL	$599,077

F. DRAINAGE					
1. 450 mm RCP	3551	LM1	$81.70	$290,117	
2. 600 mm RCP	1427	LM1	$100.00	$142,700	
3. 750 mm RCP	1517	LM1	$128.10	$194,328	
4. 900 mm RCP	753	LM1	$152.60	$114,908	
5. 450 mm FES	10	EA	$455.00	$4,550	
6. 600 mm FES	2	EA	$640.00	$1,280	
7. 900 mm FES	1	EA	$648.31	$648	
8. STRUCTURES	52	EA	$1,400.00	$72,800	
				SUBTOTAL	$821,331
G. TRAFFIC CONTROL		LS			$315,000
H. EROSION CONTROL		LS			$60,000
I. GUARDRAIL					
1. TYPE W	375	LM1	$37.14	$13,928	
2. TYPE 1 ANCHOR	3	EA	$488.00	$1,464	
3. TYPE 11 ANCHOR	3	EA	$1,394.57	$4,184	
				SUBTOTAL	$19,575
J. SIGNING, STRIPING, SIGNALS					
1. SIGNS, POSTS		LS		$6,710	
2. STRIPING		LS		$16,500	
3. SIGNALS		LS		$110,000	
				SUBTOTAL	$133,210
K. GRASSING & LANDSCAPING		LS			$20,000
L. MISCELLANEOUS					
1. FIELD OFFICE		LS		$25,000	
2. FOUND. BKFL. MATL.		LS		$6,500	
3. UNDERDRAIN		LS		$4,000	
4. RIP RAP		LS		$12,000	
5. REMOVE WINGWALLS		LS		$3,000	
6. ROW MARKERS		LS		$2,500	
				SUBTOTAL	$53,000

Planning
Site Engineering
Transportation
Environmental
Surveying/Mapping

Greenhorne & O'Mara, Inc. *Founded in 1950*

2110 NEW MARKET PARKWAY, SUITE 208 MARIETTA, GEORGIA 30067 PHONE 770-988-9555 FAX 770-952-0653

CONCEPT TEAM MEETING

PROJECT: Flat Shoals Road Phase II,
STP-9350(2), P.I. 752360
Widening of Flat Shoals Road from Old Salem Road to Salem Road (SR 162)

DATE: November 13, 1996

PLACE: Georgia DOT Urban Design Conference Room

PRESENT:

Joe Palladi	GDOT-Urban Design	404-656-5436
William J.Moskal	GDOT-Urban Design	404-656-5442
Frances Anglin	GDOT-Environmental	770-986-1050
Reba Scott	GDOT-Programming	770-743-6042
Dana Sikes	GDOT-Construction	404-299-4386
Gary Langford	GDOT-Traffic Analysis	404-699-4430
Dale Petticord	Georgia Power Co.	770-982-8255
Jim Chambers	GDOT-Urban Design	404-657-9872
Del Clippard	GDOT-Traffic Operatio	404-635-8126
Charles A. Hasty	GDOT-Urban Design	404-656-5442
Wayne Haynie	City of Conyers	770-929-4266
Andrea Bowen	City of Conyers	770-929-4232
Scott Emmons	City of Conyers	770-929-4278
Todd Mooney	Snapping Shoals EMC	770-385-2708
Wayne Kitchens	Snapping Shoals EMC	770-385-2709
Ronnie Brown	Atlanta Gas Light	770-602-4107
Gerald Moore	Atlanta Gas Light	404-584-4771
Ronnie Riggs	DOT Utilities Distr.	770-986-1090
Barry Payne	GDOT Utilities	770-986-1090
Thomas Tkacs	Greenhorne & O'Mara	770-988-9555
Linnea Ethridge	Rockdale County	770-785-5919
Steve Reynolds	GADOT Board Member	770-963-5434
Roy Beavers	BellSouth	770-493-2020
Mike Conner	Raytheon/Rockdale Co.	770-785-6906
Donald Mills	GDOT-Planning	404-697-6912
Lee Croy	Raytheon/Rockdale Co.	770-785-6913
Don Brown	GDOT	770-986-1117
Jan R. Chandler	GADOT-Urban Design	404-656-5445
Bob Miller	Greenhorne & O'Mara	770-988-9555
Theon Grojean	Greenhorne & O'Mara	770-988-9555
Vern Wilburn	Greenhorne & O'Mara	770-988-9555

DISTRIBUTION: Those Present, Larry Kaiser, Rockdale County

K:\WP\6496\CONMTG.WPD

MINUTES:

1. Joe Palladi opened the meeting and asked the attendees to announce themselves and their affiliation. Bill Moskal provided an overview of the project and its listing in the TIP. The project is currently listed on the TIP as long range for construction. This project was originally designed as part of a Rockdale County Sales Tax Program Project that extended from Smyrna Road to Salem Road (SR 162). This larger project was broken into phases to facilitate funding.

2. Bob Miller presented the project description. The limits are from Old Salem Road to Salem Road (SR 162). The project begins with a tie to the existing improvements at the intersection with Old Salem Road. The existing typical section is two lane rural. The proposed section will be four lane urban with a raised median. The proposed widening is generally symmetrical about the existing centerline to take advantage of the existing 100 foot right of way. There are no proposed grade changes along the alignment. The only major culvert is a 10' x 9' box culvert just east of Flat Shoals Elementary School that will be extended to accommodate the proposed widening. A Nationwide 404 Permit has already been confirmed for this site as part of the original project design for Rockdale County. Construction staging will be accomplished under traffic without any detours or road closures. The proposed design speed is 70 kmh (45 mph). The proposed improvements are needed to meet the demand of the future traffic projected for this corridor. Bill Moskal noted that some changes were made to the Department's project on Salem Road (SR 162) during construction. G&O needs to make sure they have the latest as built data for coordination.

3. Vern Wilburn presented the project's build (2000) and design year (2020) traffic. Joe Palladi noted that the traffic projections should be approved by Gary Langford and then the capacity analysis submitted to Urban Design for approval with the Concept. A level of service C or better would be desirable although a level of service D would be the minimum in an urban area. Due to the recent completion of improvements on Salem Road and the high rate of residential growth in the area, recent traffic counts are significantly higher than those used in the original design for Rockdale County. The design year has also been moved out from 2018 to 2020. As a result, the design year traffic has increased significantly, and additional improvements at the intersection with Salem Road (SR 162) will be warranted. These will probably include adding a second left turn from Flat Shoals Road eastbound to Salem Road (SR 162) northbound, and the widening of Flat Shoals Road east of Salem Road (SR 162) to match the western approach to the intersection. The existing signals at West Iris and Salem Road (SR 162) will need to be modified as a result of the proposed widening. The existing signal at Old Salem Road will not require modification under the current design but will probably need to be retimed.

4. Tom Tkacs presented the status of the Environmental Document. A GEPA Environmental Assessment was originally completed for the previous project from Smyrna Road to Salem Road (SR 162). This document was revised and a draft NEPA EA submitted to the Department combining this project with the Parker Road Project STP-9349(4). After review, the Department recommended breaking the document into the two separate projects. The NEPA EA for this project is complete and is ready for submittal to the Department and FHWA. There are no significant wetland impacts on the project and no eligible historic resources. FHWA approval of the EA is anticipated in early 1997.

5. Bob Miller discussed the issue of access to Flat Shoals Elementary School. There are currently two entrances off Flat Shoals Road. One is exclusively for cars and one is for buses. The current design shows two median openings within 400 feet to serve both entrances to keep bus traffic separate from car traffic. This will require a design variance. It is proposed to take limit of access from the property opposite the school at the eastern median opening that will serve cars only. In order to effectively limit driveway access from this property that would create conflicts with the proposed median openings, Department personnel suggested extending the limit of access from the bus median opening to the box culvert east of the school. Department personnel

expressed some concern about how the two median openings should be considered when signing the project. A similar situation is under construction on Sigman Road in Rockdale County. G&O will review the signing proposed at this location and will review its effectiveness with Rockdale County after completion.

6. The typical section was reviewed. The shoulder cross slope should be limited to 2% to allow for sidewalks. 4:1 slopes should be incorporated in residential areas where feasible. A 3.6m shoulder width should be considered to better accommodate utilities and to provide more room between the sidewalk and the shoulder break. Bill Moskal will determine if the project is on a bicycle corridor.

7. Utilities present on the project were reviewed:

   Snapping Shoals EMC - Existing facilities along the length of the project. Two poles close to Salem Road (SR162) were relocated for the Department's recent project and appear to be impacted again by this project. They will be relatively expensive to replace since they both have major switches.

   City of Conyers Water System - Existing 8" main on the south side of the existing roadway will fall beneath the proposed eastbound lanes and will probably be replaced the entire length to avoid conflicts due to varying depths of cover.

   Atlanta Gas Light - Existing 2" main on the north side of the existing roadway to be relocated to the north outside of the proposed roadway. Atlanta Gas will use this opportunity to replace existing regulating stations along the corridor as well.

   Bellsouth - Existing facilities full length of project. Major switching station parcel 153 on north side of the road. Current plans do not impact this station, but if widening extends further to the north it may. This facility has an easement associated with it that needs to be defined in order to confirm if there are any impacts due to the road improvements.

   Georgia Power - No facilities on this project.

   The Department requires that all utility submissions be coordinated with the District 7 Utility Engineer.

8. Greenhorne & O'Mara will prepare the Concept Meeting Minutes for review with Urban Design before incorporating with the Concept Report. Comments from this meeting will be incorporated into the Concept Report and resubmitted to Urban Design for a final review within two weeks.