

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0004427, Douglas County **OFFICE** Preconstruction
MSL-0004-00(427)
Lee Road/Sweetwater Road Widening-Ph. 1 **DATE** April 26, 2005

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

TO *MBP* SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

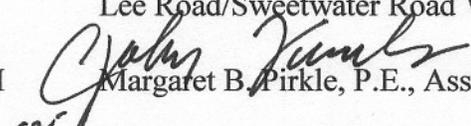
DISTRIBUTION:

David Mulling
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Bryant Poole
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0004427 Douglas County **OFFICE** Preconstruction
MSL-0004-00(427)
Lee Road/Sweetwater Road Widening - Ph 1 **DATE** April 4, 2005

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

TO  David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the widening and reconstruction of Lee Road/Sweetwater Road - Phase 1, which will begin at the intersection of Lee Road and Vulcan Drive just north of I-20, and extend north to the intersection of South Sweetwater Road and US 78/SR 5/SR 8/Bankhead Highway. Lee Road and South Sweetwater Road within the project limits are currently two lanes and are classified as urban minor arterials. The need exists to improve safety, operations, and mobility for local and through traffic in Douglas County to accommodate its growing population. Widening Lee Road and South Sweetwater Road will facilitate a better connection from I-20 and Bankhead Highway corridor by improving the north-south movement. Traffic volumes are projected to increase on Lee Road and South Sweetwater Road by 3.4 percent annually. The projected 2028 traffic volume along Lee Road and South Sweetwater Road are expected to range from 28,280 VPD on Lee Road just north of the I-20 interchange to 22,150 VPD on South Sweetwater Road near Bankhead Highway. Under no-build conditions, the future level of service (LOS) is projected to be LOS "E" or below. The proposed widening will result in an improved LOS for Lee Road and South Sweetwater Road section in 2028 of LOS "C."

The proposed construction will provide four, 12' lanes with 16' urban shoulders (curb and gutter, sidewalks) and 20' raised median from Vulcan Drive to Skyview Drive. One side of the road will have a multi-use trail on the shoulder. Because of right-of-way and environmental constraints, two, 11' lanes with 16' shoulders (curb and gutter, sidewalks) and 11' two-way left turn lane from Skyview Drive to Bankhead Highway. One side of the road will have a multi-use trail on the shoulder. A realignment of Lee Road/South Sweetwater Road is proposed where Lee Road currently joins Sweetwater Road at a T-intersection. Temporary lane closures and on-site detours may be required during construction.

Environmental concerns include requiring a COE 404 Permit; an Environmental Assessment will be prepared; a public hearing open house will be held; time saving procedures are not appropriate.

P. I. No. 0004427 / Douglas

April 4, 2005

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$5,287,000	\$4,284,000	RRB	2007
Right-of-Way & Utilities*	Local	Local	RRB	2006

*Douglas County signed PMA on 12-3-03 for PE, right-of-way, utilities and construction.

This project will improve capacity to an acceptable level and in turn will improve traffic operations by reducing delays and improving safety. I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR


 Buddy Gratton, P.E., Director of Preconstruction

APPROVE


 David E. Studstill, Jr., P.E., Chief Engineer

SCORING RESULTS AS PER MOG 2440-2

Project Number: MSL-0004-00(427)		County: Douglas		PI No.: 0004427	
Report Date: March 15, 2005		Concept By: DOT Office: District 7			
<input checked="" type="checkbox"/> Concept Stage		Consultant: DWA, Inc.			
Project Type: Choose One From Each Column		<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <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			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

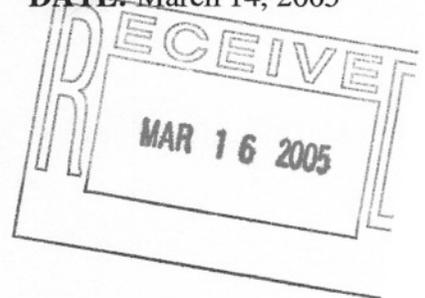
MSL-0004-00(427), Douglas County
Lee Road/South Sweetwater Road Widening-
Phase 1 frm. I 20 to Bankhead Highway/SR 8
P.I. No. 0004427

BP
Bryant Poole, Metro District Engineer

Meg Pirkle, Assistant Director of Preconstruction

OFFICE: Chamblee\Metro

DATE: March 14, 2005



ECT: PROJECT CONCEPT REPORT

ed is the original Concept Report for your further handling for approval in accorda
the Plan Development Process.

copy of this letter, additional copies are being distributed to the list of names below
ew and comment. Please return signed cover sheet and any comments to Meg Pirkle
her processing.

you have any questions concerning this report, please contact Ralph L. Merrow, Jr. c
fice at (404) 463-4947.

BPrlm

Attachment

cc: Joe Palladi, w/attachment
Jamie Simpson, w/attachment
Harvey Keepler, w/attachment
Keith Golden, w/attachment
David Mulling, w/attachment

File

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
DISTRICT 7 OFFICE

Project Number: MSL-0004-00(427)

County: Douglas County

P.I. NO. 0004427

PROJECT CONCEPT REPORT

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: N/A

Lee Road/South Sweetwater Road Widening – Phase 1

Recommended for approval:

DATE 3/14/05

Neil Summ
Project Manager

DATE 3/15/05

Ray Hoole
District Engineer

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

DATE

State Transportation Planning Administrator

DATE

Office of Financial Management Administrator

DATE

State Environmental / Location Engineer

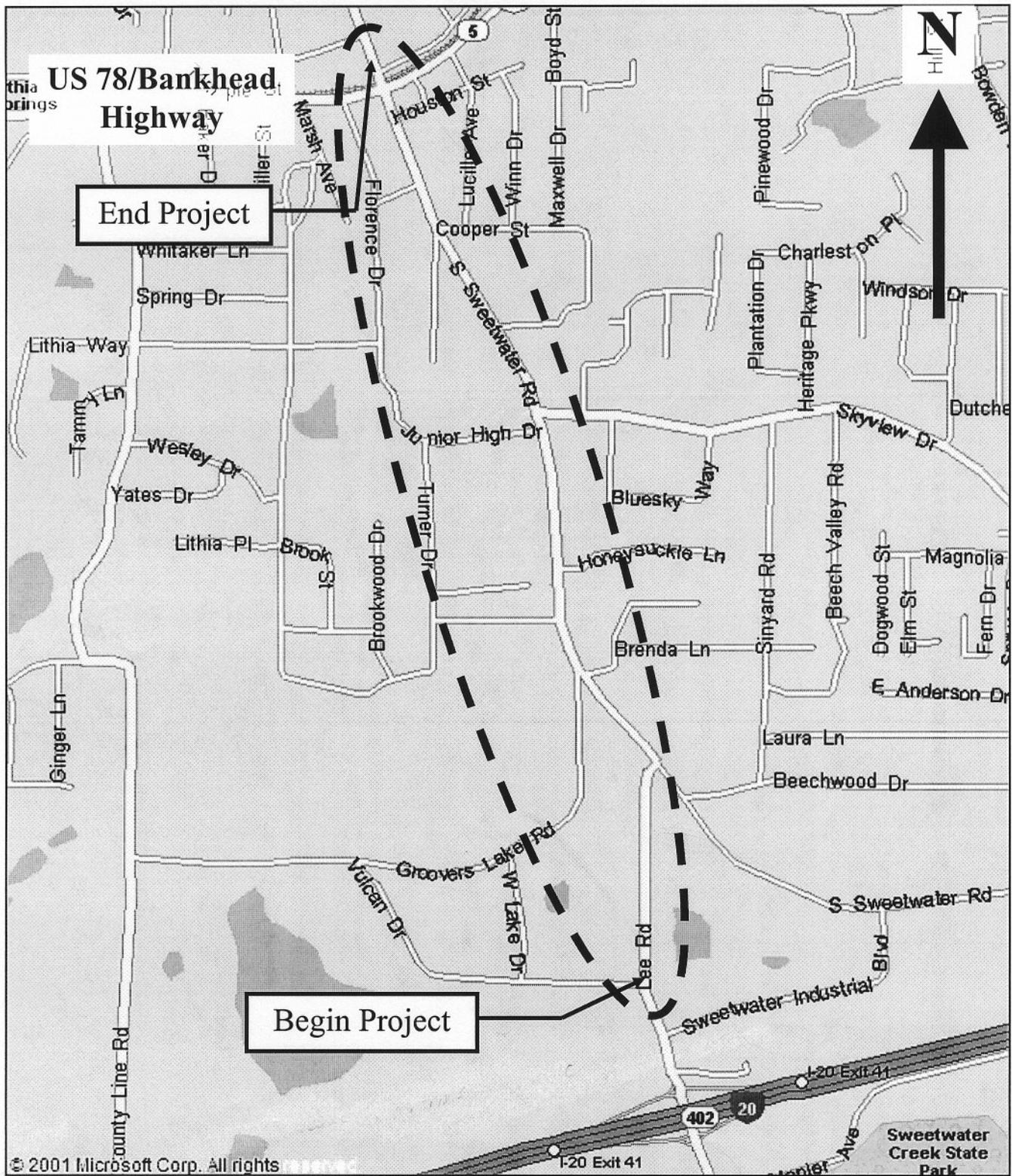
DATE

State Traffic Safety & Design Engineer

DATE

Project Review Engineer

Project Location Map



Project MSL-0004-00(427) Douglas County is Widening Lee Road/Sweetwater Road-Phase I, which will begin at the intersection of Lee Road and Vulcan Drive, just North of I-20, and extend north to the intersection of South Sweetwater Road and US 78/SR 5/SR 8/Bankhead Highway.

PROJECT NEED & PURPOSE

The need exists to improve safety, operations, and mobility for local and through traffic in Douglas County to accommodate its growing population. Widening Lee Road and South Sweetwater Road from US 78/SR 5/SR 8/Bankhead Highway to Vulcan Drive, just North of I-20, will facilitate a better connection from I-20 and the Bankhead Highway corridor by improving the north-south movement and realigning the intersection of Lee Road to South Sweetwater Road. The improvement will have a beneficial impact on traffic safety by directing turning movements at signalized intersections, providing turning lanes at major intersections and providing sidewalks and cross-walks at intersections.

Also see complete Need & Purpose Attachment

PROJECT LOCATION & DESCRIPTION

PROJECT LENGTH: 1.94 Miles

DESCRIPTION: MSL-0004-00(427) Douglas County is the widening of CR 817/Lee Road/CR 818/South Sweetwater Road-Phase I, which will begin at the intersection of Lee Road and Vulcan Drive and extend north approximately 1.8 miles to the intersection of South Sweetwater Road and US 78/SR 5/SR 8/Bankhead Highway. Major intersections on the South Sweetwater Road portion are at US 78/SR 5/SR 8/Bankhead Highway, Skyview Drive, and Lee Road. On the Lee Road portion, the major intersection is at Vulcan Drive.

This project is proposed as a 4-lane divided facility from Vulcan Drive to Skyview Drive. Because of right of way and environmental constraints, a 2-lane section with a center turn lane is proposed from Skyview Drive to US 78 / Bankhead Highway. A realignment of Lee Road/South Sweetwater Road is proposed where Lee Road currently joins Sweetwater Road at a T-intersection.

TRAFFIC

CURRENT

PROJECTED

AADT /YEAR = 8,975-13,050 (2004)

AADT /YEAR = 22,150-28,175 (2028)
10,625-14,975 (2008)

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

Major

Urban Minor Arterial

FOS

EXEMPT

SF

NON-ATTAINMENT AREA

The Proposed project is located in a non-attainment area.

Conforming Plan Description: 4 lanes from I-20 to US 78

STIP Description: Lee Road/South Sweetwater Road – Roadway Capacity - 2 to 4 lanes

Project Concept Report PAGE 4
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

U.S. ROUTE NUMBER/STATE ROUTE NUMBER
A temporary State Route will be assigned to Lee Road/South Sweetwater Road for right of way acquisition

EXISTING ROADWAY				
TYPICAL SECTION				
Existing Lee Road/South Sweetwater Road: 2 -12' lanes with variable width grass shoulders, minimal sidewalks.				
POSTED SPEED				
45 mph (Vulcan Dr. to Skyview Dr.)				
35 mph (Skyview Dr. to US 78)				
WIDTH OF RIGHT OF WAY				
Mainline: 60' – 70'				
Side Roads: 40' - 60'				
MAJOR STRUCTURES				
N/A				
INTERSECTIONS				
Major: Lee Road - Vulcan Drive, South Sweetwater Road				
South Sweetwater Road - Lee Road, Skyview Drive, US 78/SR 5/SR 8/Bankhead Highway				
Minor: South Sweetwater Road - Beechwood Drive, Groovers Lake Road, Miller Street, Honeysuckle Lane, Junior High Drive, Cooper Circle, Cooper Street, Mark Turner Road, Inman Street, Houston Street, Temple Street.				
	MAX DEGREE OF CURVE		MAX GRADE	
45 mph (Vulcan Dr. to Skyview Dr.)	Mainline	7°50'55" R = 730'	Mainline	6 %
	Side Road	7°50'55" R = 730'	Side Road	6 %
35 mph (Skyview Dr. to US 78)	Mainline	13°38'31" R = 420'	Mainline	8%

Project Concept Report PAGE 5
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

EXISTING ROADWAY				
35 mph (Skyview Dr. to US 78)	Side Road	4°46'29" R=1,200'	Side Road	8%
EXISTING MAJOR STRUCTURES				
FEATURE INTERSECTED / TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
N/A				

PROPOSED ROADWAY				
TYPICAL SECTION:				
4-12' lanes with 16' urban (curb and gutter, sidewalks) shoulders and 20' raised median from Vulcan Drive to Skyview Drive. One side of the road will have a multi-use trail on the shoulder				
2 -11' lanes with 16' urban (curb and gutter, sidewalks) shoulders and 11' two-way left turn lane* from Skyview Drive to US 78/SR 5/SR 8/Bankhead Highway. One side of the road will have a multi-use trail on the shoulder.				
*Some portions of the two-way left turn lane are proposed to be landscaped as part of LCI project.				
DESIGN SPEED	MAX DEGREE OF CURVE		MAX GRADE	
45 mph (Vulcan Dr. to Skyview Dr.)	Allowable	7°50'55" R = 730'	Allowable-Mainline	6 %
	Proposed	7°50'55" R = 730'	Proposed-Mainline	6 %
35 mph (Skyview Dr. to US 78)	Allowable	13°38'31" R = 420'	Allowable-Side Road	8%
	Proposed	4°46'29" R=1,200'	Proposed-Side Road	8%
			Proposed-Driveway	25 %

Project Concept Report PAGE 6
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

PROPOSED ROADWAY

PROPOSED MAJOR STRUCTURES

FEATURE INTERSECTED / TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
N/A				

INTERSECTIONS

Major: Lee Road - Vulcan Drive, South Sweetwater Road
 South Sweetwater Road - Lee Road, Skyview Drive, US 78/SR 5/SR 8/Bankhead Highway

Minor: South Sweetwater Road - Beechwood Drive, Groovers Lake Road, Miller Street, Honeysuckle Lane, Junior High Drive, Cooper Circle, Mark Turner Road/Cooper Street, Inman Street, Houston Street, Temple Street

TRAFFIC CONTROL

Temporary lane closures and on-site detours may be required.

PROPOSED RIGHT OF WAY

RIGHT OF WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS		
Mainline: Varies 70'-100'	65	RES: 3	BUS: 0	M.H.: 0
Side roads: Varies 40' - 60'				

RIGHT OF WAY ACQUISITION BY: Douglas County

TYPE OF ACCESS CONTROL:
 Controlled Access / Permit

Project Concept Report PAGE 7
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

DESIGN EXCEPTIONS NEEDED			
DESIGN ELEMENT	YES	NO	UNDETERMINED
SUBST HORIZONTAL ALIGNMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST ROADWAY WIDTH	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST SHOULDER WIDTH	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST VERTICAL GRADES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST CROSS SLOPES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST STOPPING SIGHT DIST	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST SUPERELEVATION RATES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST HORIZONTAL CLEARANCE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST SPEED DESIGN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST VERTICAL CLEARANCE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST BRIDGE WIDTH	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUBST BRIDGE STRUCTURAL CAPACITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ENVIRONMENTAL CONCERNS
PERMIT: Section 404
LEVEL OF ENVIRONMENTAL ANALYSIS: Environmental Assessment FONSI with potential 4(f) or 6(f) impacts
UNDERGROUND STORAGE TANKS: Draft report attached.
HAZARDOUS SITES: Draft report expected attached.

UTILITY INVOLVEMENTS
POWER: Greystone EMC
COMMUNICATION: Bell South
CABLE TV: Comcast
GAS: Austell Gas
WATER & SEWER: Douglasville-Douglas County Water & Sewer Authority
PETROLEUM: N/A
RAILROADS: Norfolk Southern

DESIGN VARIANCES
11' lane width (South Sweetwater Road from Skyview Drive to US 78/Bankhead Highway)
Flush Median (South Sweetwater Road from Skyview Drive to US 78/Bankhead Highway)
8' multi-use trail (east side of Lee Rd and South Sweetwater Rd from Vulcan Dr to US 78/Bankhead Highway)

Project Concept Report PAGE 8
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

PROJECT RESPONSIBILITIES
DESIGN: Douglas County
RIGHT OF WAY ACQUISITION: Douglas County
RELOCATION OF UTILITIES: Douglas County (Reimbursable)
LETTING TO CONTRACT: Douglas County
SUPERVISION OF CONSTRUCTION: Douglas County
PROVIDING MATERIAL PITS: Contractor
PROVIDING DETOURS: Contractor

COORDINATION AND SCHEDULING
INITIAL CONCEPT TEAM MEETING: 10-19-04 (Minutes Attached)
CONCEPT TEAM MEETING DATE: 12-13-04 (Minutes Attached)
CONFORMS TO TIP/STIP: YES
MEETS LOGICAL TERMINI REQUIREMENTS: YES
P.A.R. MEETING: Not required
RESOURCE AGENCIES: COE, SHPO
LOCATION INSPECTION DATE: Pending
PERMITS REQUIRED (4f, COE, 404, etc.): Section 404 Nationwide Permit 14
PUBLIC INVOLVEMENT: Public Information Open House held on 1-13-05
TIME SAVING PROCEDURES APPROPRIATE: NO
<p>OTHER PROJECTS IN THE AREA:</p> <p>The project requires coordination with a number of other planned projects. Regionally, HOV lanes are programmed on I-20 West from SR 6-Thornton Road to SR-5-Bill Arp Road (AR-H-201, PI# 0003165). The Lee Road Bridge at I-20 West (DO-220B, PI# 0001917) is programmed for capacity addition as is Lee Road from I-20 West to SR 92-Fairburn Road (DO-220A, PI# 0004428). On the northern end of the project where South Sweetwater Road intersects US 78/SR5/SR8-Bankhead Highway, US 78 has two programmed widenings that are scheduled for long range (DO-029A, PI# 721590 and DO-016, PI# 721320) from South Sweetwater Road to SR 92-Fairburn Road and from SR 6-Thornton Road to South Sweetwater Road. In addition, Douglas County is submitting an application to ARC for a Livable Centers Initiative (LCI) grant for the Lithia Springs area around the South Sweetwater Road and US 78-Bankhead Highway intersection.</p>

Project Concept Report PAGE 9
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

COORDINATION AND SCHEDULING	
LOCAL GOVERNMENT COMMENTS:	
RAILROADS:	
Norfolk Southern	
There is a Norfolk Southern rail line along the north side of US 78-Bankhead Highway at the northern end of the project. Changes to the Bankhead Highway/South Sweetwater Rd traffic signal and/or road improvements at the intersection will require coordination with Norfolk Southern.	
SCHEDULING CONSIDERATIONS	
TIME TO COMPLETE ENVIRONMENTAL:	13 MONTHS
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	10 MONTHS
TIME TO COMPLETE 404 PERMIT:	2 MONTHS
TIME TO COMPLETE FINAL CONSTRUCTION PLANS:	17 MONTHS
TIME TO BUY RIGHTS-OF-WAY:	13 MONTHS

ALTERNATIVES CONSIDERED
<ul style="list-style-type: none"> • No Build • Symmetrical Widening • Widening to east side* • Widening to west side* <p>* Widening to the east or west sides has significant environmental concerns (historic resources impacts) and was not pursued.</p>

ATTACHMENTS:

- Cost Estimate
- Typical Sections
- Need & Purpose
- Initial Concept Team Meeting minutes
- Concept Team Meeting Minutes
- Corridor Analysis
- UST-Hazardous Materials Report (Phase I Environmental)

Project Concept Report PAGE 10
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

PRELIMINARY COST ESTIMATE

PREPARED BY:

PROJECT LENGTH: 1.94 Miles

ESTIMATED LETTING DATE: 2007

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT DEV.

PROJECT COST	
A. RIGHT-TO-WAY:	
1. PROPERTY (LAND & EASEMENT @ \$2.30/sf commercial and \$0.57/sf residential, plus structure costs)	\$ 900,000.00
2. DISPLACEMENTS: RES: 3, BUS: 0, M.H.: 0	\$ 500,000.00
3. OTHER COST (ADM./COST, INFLATION)	\$ 3,458,000.00
SUBTOTAL:A	\$ 4,858,000.00
B. REIMBURSABLE UTILITIES:	
To be determined.	\$ 100,000.00
Norfolk Southern (2 signals/gates)	\$ 500,000.00
	\$ 0.00
SUBTOTAL:B	\$ 600,000.00
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	
	\$ 0.00
	\$ 0.00
SUBTOTAL:C-1	\$ 0.00
2. GRADING AND DRAINAGE:	
a. EARTHWORK (100,000 cy @ \$6.00/cy)	\$ 600,000.00
b. DRAINAGE:	
1) 18" Storm Drain (10,250 ft @ \$30.00/ft)	\$ 307,500.00
2) 24" Storm Drain (800 ft @ \$35.00/ft)	\$ 28,000.00
3) Curb and Gutter (34,100 ft @ \$10.00/ft)	\$ 341,000.00
4) Catch Basins (30 @ \$1,600.00)	\$ 48,000.00
5) Drop Inlets (10 @ \$1,500.00)	\$ 15,000.00

Project Concept Report PAGE 11
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

PROJECT COST		
6) Flared End Sections (20 @ \$400.00)		\$ 8,000.00
		\$ 0.00
		\$ 0.00
SUBTOTAL:C-2		\$ 1,347,500.00
3. BASE AND PAVING:		
a. AGGREGATE BASE (30,000 Ton @ \$15.00/ Ton)		\$ 450,000.00
b. ASPHALT PAVING:		
Surface (4,400 Ton @ \$43.50/ Ton)	\$ 191,400.00	
Binder (5,850 Ton @ \$40.00/ Ton)	\$ 234,000.00	
Base (18,000 Ton @ \$36.00/ Ton)	\$ 648,000.00	
SUBTOTAL:C -3.b		\$ 1,073,400.00
c. CONCRETE MEDIAN (3200 sy @ \$30.00/sy)		\$ 96,000.00
d. OTHER (Bituminous Tack: 5,100 Gal @ \$1.00/ Gal)		\$ 5,100.00
SUBTOTAL:C-3		\$ 1,624,500.00
4. LUMP ITEMS:		
a. CLEARING AND GRUBBING		\$ 250,000.00
b. LANDSCAPING		\$ 0.00
c. TRAFFIC CONTROL		\$ 250,000.00
SUBTOTAL:C-4		\$ 500,000.00
4A. EROSION CONTROL		
a. PERMANENT		\$ 100,000.00
b. TEMPORARY		\$ 100,000.00
SUBTOTAL: C-4A		\$ 200,000.00

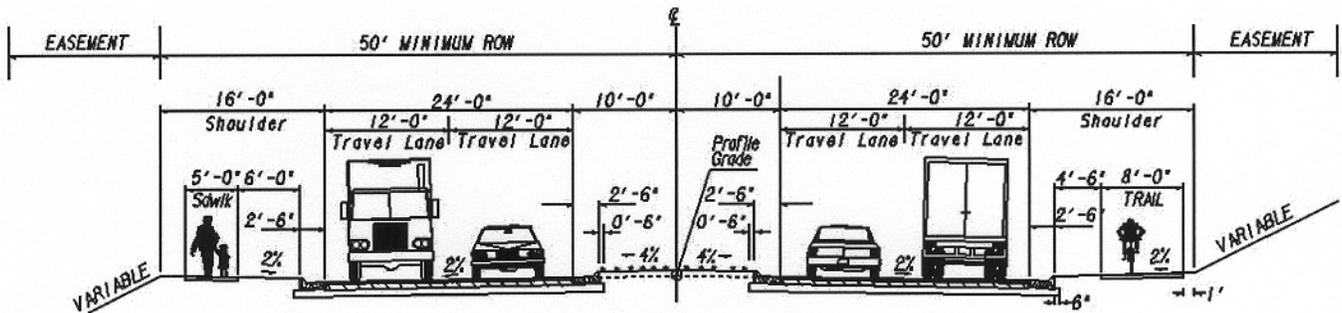
Project Concept Report PAGE 12
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

PROJECT COST	
5. MISCELLANEOUS:	
a. LIGHTING ()	\$ 0.00
b. SIGNING (180 ft ² signing material @ \$12.00/ ft ²)	\$ 2,160.00
c. MARKING (3,500 ft @ \$0.25/ft and 27,200 ft @ \$0.15/ft)	\$ 4,955.00
d. SIGNALS (0 @ \$50,000.00 ea)	\$ 0.00
e. NEW SIGNALS (4 @ \$70,000.00 ea)	\$ 280,000.00
f. ADJUST SIGNALS (0 @ \$25,000.00 ea)	\$ 0.00
g. OVERHEAD SIGNING (1 sets of 2 strain poles @ \$20,000.00 ea)	\$ 20,000.00
h. GUARDRAIL – (2,000 ft @ \$25.00/ ft and 0 ft @ \$35.00/ ft)	\$ 50,000.00
i. ANCHORS– (Type 12: 4 @ \$1,250.00 and Type 1:4 @ \$350.00)	\$ 6,400.00
j. SIDEWALK (5,700 yd ² @ \$40.00/ yd ²)	\$ 228,000.00
k. ASPHALT MULTI-USE TRAIL (9,100 yd ² @ \$10.00/ yd ²)	\$ 91,000.00
l. ITS CONDUIT (10,400 ft @ \$4.00/ ft)	\$ 41,600.00
SUBTOTAL:C-5	\$ 724,115.00
6. SPECIAL FEATURES: NONE	
SUBTOTAL:C-6	\$ 0.00

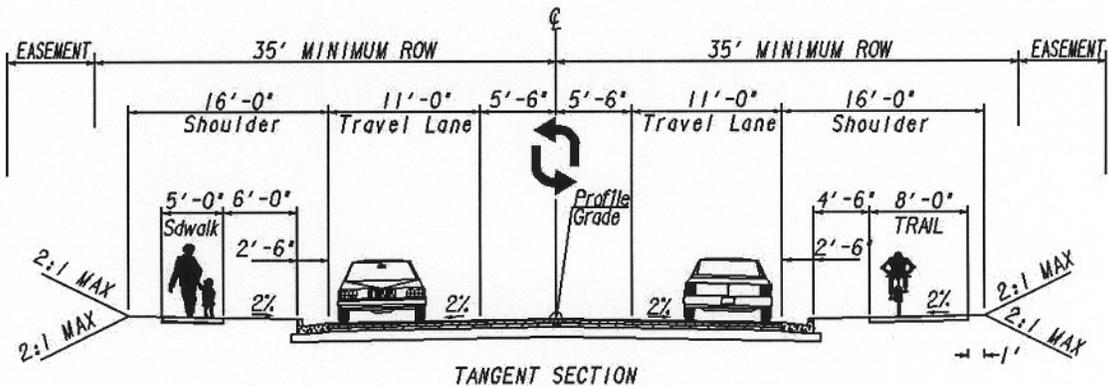
Project Concept Report PAGE 13
 Project Number: MSL-0004-00(427)
 P.I. Number: 0004427
 County: Douglas

A. RIGHT-OF-WAY ()		\$ 4,858,000.00
B. REIMBURSABLE UTILITIES		\$ 600,000.00
C. CONSTRUCTION		
1. MAJOR STRUCTURES		\$ 0.00
2. GRADING AND DRAINAGE		\$ 1,347,500.00
3. BASE AND PAVING		\$ 1,624,500.00
4. LUMP ITEMS		\$ 500,000.00
4A. EROSION CONTROL		\$ 200,000.00
5. MISCELLANEOUS		\$ 724,115.00
6. SPECIAL FEATURES		\$ 0.00
SUBTOTAL CONSTRUCTION COST		\$ 4,396,115.00
E. & C. (10%)		\$ 439,600.00
INFLATION (5% PER YEAR)		\$ 450,600.00
NUMBER OF YEARS	2	
TOTAL CONSTRUCTION COST		\$ 5,286,315.00
GRAND TOTAL PROJECT COST		\$ 10,744,315.00

This project is 100 percent (\$10,744,315.00) in congressional district 11.



TYPICAL SECTION
 LEE ROAD/SOUTH SWEETWATER ROAD
 FROM I-20 TO SKYVIEW DRIVE
 URBAN SECTION
 NOT TO SCALE



TYPICAL SECTION
 LEE ROAD/SOUTH SWEETWATER ROAD
 FROM SKYVIEW DRIVE TO US 78-BANKHEAD HIGHWAY
 URBAN SECTION
 NOT TO SCALE

Project Concept Report PAGE 15
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

Need and Purpose
Project MSL-0004-00(427)
PI# 0004427
ARC ID # PA 016
Douglas County
Lee Road/South Sweetwater Road-Phase I
From US 78/SR 5/SR 8/Bankhead Highway to Vulcan Drive

Background

The Atlanta Regional Commission (ARC) adopted the 2025 Regional Transportation Plan in March 2000 and adopted the Fiscal Year 2003-2005 Transportation Improvement Program (TIP) in October 2002. The RTP and TIP are the result of a comprehensive, cooperative, and continuous planning process conducted by ARC, local governments, the Georgia Regional Transportation Authority and the Georgia Department of Transportation in cooperation with the Federal Highway and Federal Transit Administrations. The RTP and TIP recommend a capacity addition on Lee Road/South Sweetwater Road from US 78/SR 5/SR 8/Bankhead Highway to I-20 West. Lee Road and South Sweetwater Road were identified in the ARC Congestion Management System as congested roadways with heavy peak period volumes.

The ARC board adopted the Mobility 2030 Regional Transportation Plan (2030 RTP) and the FY 2005-2010 Transportation Improvement Program (FY 2005-2010 TIP) on December 1, 2004. The Lee Road project is included and is listed as DO-022.

Design

The purpose of project MSL-0004-00(427) is to widen Lee Road and South Sweetwater Road from US 78/SR 5/SR 8/Bankhead Highway to Vulcan Drive, just north of the I-20 interchange, to provide greater mobility in the area. The sections of Lee Road and South Sweetwater Road within the project description are currently two lanes and are classified as urban minor arterials in Douglas County. At the southern limit of the project, Lee Road connects to Interstate 20 at exit 41. At this interchange is a 145-space park and ride lot which is utilized by Douglas County vanpool and other local residents. The Lee Road interchange with I-20 provides Interstate access to eastern Douglas County in the Lithia Springs area and also connects to the eastern limits of Douglasville.

The project is planned as a widening from a two-lane to a four-lane divided roadway from Vulcan Drive to Skyview Drive and a two-lane roadway with a center lane providing a two way left turn lane from Skyview Drive to US 78/SR 5/SR 8/Bankhead Highway. Median openings will be placed at major intersections in accordance with Georgia Department of Transportation (GDOT) policy. Major intersections on the South Sweetwater Road portion are at US 78-Bankhead Highway, Skyview Drive, and Lee Road and on the Lee Road portion at Vulcan Drive. A realignment of Lee Road/South Sweetwater Road is proposed to facilitate better north-south traffic movement between Lee Road and South Sweetwater Road. Currently, Lee Road joins Sweetwater Road at a T-intersection. The realignment would improve operations and safety and provide a direct connection between Lee Road and South Sweetwater Road by having Sweetwater Road cross-intersect with Lee Road. There are no

Project Concept Report PAGE 16
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

major bridges within the project limits. Very limited sidewalks currently exist along Lee Road/South Sweetwater Road. The project will include a sidewalk on one side of the street and a multi-use trail on the other. State Bike Route 15 is within the project limits from the Lee Road/South Sweetwater intersection to US 78/Bankhead Highway. The Douglas County Bike-Ped Plan also proposes a multi-use trail within the project limits from Vulcan Drive to the Lee Road/South Sweetwater intersection.

The project requires coordination with a number of other planned projects. Regionally, HOV lanes are programmed on I-20 West from SR 6-Thornton Road to SR-5-Bill Arp Road (AR-H-201, PI# 0003165). The Lee Road Bridge at I-20 West (DO-220B, PI# 0001917) is programmed for capacity addition as is Lee Road from I-20 West to SR 92-Fairburn Road (DO-220A, PI# 0004428). On the northern end of the project where South Sweetwater Road intersects US 78/SR5/SR8-Bankhead Highway, US 78 has two programmed widenings that are scheduled for long range (DO-029A, PI# 721590 and DO-016, PI# 721320) from South Sweetwater Road to SR 92-Fairburn Road and from SR 6-Thornton Road to South Sweetwater Road. In addition, Douglas County is submitting an application to ARC for a Livable Centers Initiative (LCI) grant for the Lithia Springs area around the South Sweetwater Road and US 78-Bankhead Highway intersection.

Travel Demand and Operational Characteristics

The existing 2004 traffic volumes on Lee Road and South Sweetwater Road between I-20 and Bankhead Highway range from 13,150 vehicles per day (vpd) on Lee Road just north of the I-20 interchange to 9,250 vpd on South Sweetwater Road near Bankhead Highway. Using the level of service (LOS) guidelines from the *GRTA Developments of Regional Impact (DRI) Review-Technical Guidelines for Generalized Annual Daily Volumes*, the 2004 LOS on Lee Road and South Sweetwater Road between I-20 and Bankhead Highway ranges from C on Lee Road just north of the I-20 interchange to B on South Sweetwater Road near Bankhead Highway. In its current configuration, another operational issue is that the two-lane facility does not provide optimal passing opportunities, which cause vehicles to platoon.

The traffic volumes are projected to increase on Lee Road and South Sweetwater Road by 3.4 percent annually. The projected 2028 traffic volumes along Lee Road and South Sweetwater Road are expected to range from 28,180 vpd on Lee Road just north of the I-20 interchange to 22,150 vpd on South Sweetwater Road near Bankhead Highway. Under no-build conditions, the future level of service (2028) is projected to be LOS E or below for Lee Road and South Sweetwater Road between I-20 and Bankhead Highway. The widening project would result in an improved LOS for the Lee Road and South Sweetwater Road sections in 2028 of C. (Note: The two lane with center turn lane section of South Sweetwater Road between Skyview Drive and US 78/Bankhead Highway will fall to LOS D after 2022.) This project would improve capacity to an acceptable level and, in turn, would improve traffic operations by reducing vehicle delays and improving safety.

Safety

Three years of crash data (2000 through 2002) were reviewed and analyzed along Lee Road and South Sweetwater corridor. The safety evaluation included calculating normalized crash rates and examining crash types for both roads. Tables 1 and 2 compare the crash rates for South Sweetwater Road and Lee

Road to the statewide averages for a similarly classified facility as an urban minor arterial. The crash rates for both roads are below the statewide average for this functional classification for all years examined.

Table 1
South Sweetwater Road – Urban Minor Arterial (TC 4158)

	2000	2001	2002
Total Accidents	22	10	15
Accidents Per 100 MVMT*	429	173	285
Statewide Accidents Per 100 MVMT* (2001)	550	550	550

*MVMT – Rate per million vehicle miles traveled.
 Source: Georgia Department of Transportation

Table 2
Lee Road – Urban Minor Arterial (TC 156)

	2000	2001	2002
Total Accidents	19	11	11
Accidents Per 100 MVMT*	529	295	505
Statewide Accidents Per 100 MVMT* (2001)	550	550	550

*MVMT – Rate per million vehicle miles traveled.
 Source: Georgia Department of Transportation

The curvature of the roadway sections may be a contributor to the route’s crash rates. Over the three-year period, there were a total of 17 collisions (38 percent of the total collisions for the roadway section) reported at the intersection of South Sweetwater Road and SR 5/Bankhead Highway involving the northbound approach. There is no predominant type of crash at this intersection during this time period. Rear-end collisions accounted for 25 percent, and angle- intersect and side-swipe each accounted for 37.5 percent. The proposed roadway widening and the addition of a turn lane at the intersection may improve safety.

Community Issues

Douglas County is a member county of the Atlanta Regional Commission planning area. As a suburban Atlanta county, Douglas County has experienced significant population growth in the past two decades. Between 1980 and 2000, Douglas County population grew by over 37,600 persons (69 percent) to a 2000 population of 92,174. The US Census population estimate for 2003 is 102,015, an increase of nearly 11 percent since the 2000 decennial census. In the Douglas County 2025 Comprehensive Plan (draft), the 2025 population projection for the County is 240,758, a doubling of the existing population. The Lee Road and South Sweetwater Road widening is one piece of regional and county-wide transportation plans to accommodate the existing and future travel demand growth spurred by the demographic changes in the County and region.

2000 Census data by block group was reviewed to identify environmental justice communities in the

project area. In 2000, the county-wide non-white population comprised 24.1 percent of the population. The poverty status for individuals county-wide was 7.8 percent of the population. There may be a larger proportion of both non-white persons and persons below the poverty line in the southeast portion of the project area. Block group 3, Census tract 801.01 (bounded by Skyview Drive on the north, Sweetwater Road/Lee Road on the west, I-20 on the south, and the Cobb County line on the east) had a larger proportion of non-white population (45.3 percent) and a population of persons below the poverty line (13 percent) than county-wide, 24.1 percent and 7.8 percent, respectively. Since this block group extends a distance beyond the project area, these populations may not be directly impacted by the project; however, attention should be given to including these populations in the project development process.

Land uses along the project corridor vary. Existing zoning includes pockets of low density residential, commercial, light industrial, and neighborhood commercial. Planned future land use (Draft 2025 Comprehensive Plan) shows the corridor predominately classified as *Community Village Center* on the southern portion of the corridor from I-20 to East Linda Drive and *Mixed Use* on the northern portion of the corridor from East Linda Drive and US 78. There is a small area of *Urban Residential* land use just south and west of the Inman Street and South Sweetwater Road intersection. A Douglas County fire station is currently under construction west of South Sweetwater and south of Groovers Lake Road. Much of the area west of Lee Road and south of Vulcan Lane is in the City of Douglasville. The *Community Village Center* and *Mixed Use* land use designations are compatible with the Lee Road/South Sweetwater Road widening project. Both designations include higher intensity, mixed-use development. Improving the street and pedestrian connections between this corridor and intersecting streets is important in these land uses. Two Douglas County schools are within one-half mile of Sweetwater Road North off of Junior High Drive, Lithia Springs Elementary, with a 2004-2005 student population of approximately 550 students and Turner Middle School, with a 2004-2005 student population of approximately 800 students.

Logical Termini

The Lee Road/South Sweetwater Road widening project improves safety, operations, and mobility between US 78/SR 5/SR 8-Bankhead Highway and I-20 West. The US 78/SR5/SR8-Bankhead Highway corridor is a major Douglas County mixed use corridor which is also planned for widening. Lee Road south of I-20 and the Lee Road bridge at I-20 are also planned for widening, so this project is an important piece in a system-wide improvement.

Need and Purpose

The need exists to improve safety, operations, and mobility for local and through traffic in Douglas County to accommodate its growing population. Widening Lee Road and South Sweetwater Road from US 78/SR 5/SR 8-Bankhead Highway to Vulcan Drive will facilitate a better connection from I-20 and the Bankhead Highway corridor by improving the north-south movement in realigning the intersection of Lee Road to South Sweetwater Road. The improvement will have a beneficial impact on traffic safety by directing turning movements at signalized intersections, providing turning lanes at major intersections and providing sidewalks and cross-walks at intersections.

Project Concept Report PAGE 19
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

**INITIAL CONCEPT TEAM MEETING MINUTES
MSL-0004-00(427) PI#0004427**

SUBJECT: MSL-0004-00(427) & MSL-0004-00(428) Douglas County
PI No 0004427 & 0004428
Widening Lee Road/South Sweetwater Road – Phase 1 and Phase 2
Initial Concept Team Meeting

MEETING DATE: October 19, 2004

TODAY'S DATE: October 27, 2004

PREPARED BY: Rob Dell-Ross, Day Wilburn Associates, Inc. (DWA)

ATTENDEES:

Kathy Macias, Douglasville-Douglas County Water & Sewer Authority
Michael B. Payne, Douglasville-Douglas County WSA
Buddy Allison, City of Douglasville
Keary Lord, Douglas County DOT
Gary Westmoreland, Douglas County DOT
Randy Hulsey, Douglas County DOT
Amy Brumelow, Douglas County Planning & Zoning
Tony Pritchett, Georgia Transmission
Doyle West, Austell Gas
Sandy Beasley, GreyStone Power
Daniel Hall, BellSouth
Wade Woodward, GDOT District 7 Utilities
Joe Carr, GDOT District 7, Douglasville Project Engineer
Ralph Merrow Jr., GDOT District 7
Scott Lee, GDOT District 7
Nebiat Abraham, GDOT District 7
Linda Edwards, Edwards-Pitman Environmental, Inc. (EPE)
Susan Thomas, EPE
Terri Malone, EPE
Lee Maxfield, Moreland Altobelli
Ronald Nix, Moreland Altobelli
Alva Byrom, Moreland Altobelli
Danny Godwin, The LPA Group
John Weingard, The LPA Group
Rick Day, DWA
Jeff VanDyke, DWA
Rob Dell-Ross, DWA

LOCATION: Citizens Hall, Douglas County Courthouse

Introduction & Meeting Purpose

Jeff VanDyke and Danny Godwin began the meeting. Randy Hulsey welcomed everyone and thanked them for attending. He explained that these two projects are very important to Douglas County.

Project Identification

Jeff VanDyke and Danny Godwin both gave a short walkthrough of their respective projects.

Randy Hulsey gave an update on the new fire station being built off Groovers Lake Road.

One of the important design decisions when dealing with designing a raised median is deciding where the median openings will go. It is important that Phase 1 keep the fire station and access to the school from Junior High Drive in mind during median designs. There is some pedestrian activity associated with the school but this is contained to back roads and not along South Sweetwater Road.

Amy Brumelow from the Douglas County Planning & Zoning department gave a brief update of the redevelopment of Lithia Springs which will include the northern end of South Sweetwater Road. The next meeting for the potential Livable Centers Initiative (LCI) is at 6:30 P.M. on November 8th at Lithia Springs High School.

Phase 2 has 140+/- parcels along the project, with approximately 35 being commercial. It is an existing 2-lane urban arterial with a speed limit of 45 mph. There are 19 side roads, two of which are signalized. The two signalized intersections are at S.R. 92 at beginning of the project and East County Line Rd.

Randy Hulsey is working with GDOT personnel to try to take the reconstruction of the I-20/Lee Road interchange out of the I-20 HOV project and insert it into one of the two Lee Road phases. This would eliminate a significant gap in construction. Kathy Macias said that this bridge is the #1 traffic problem for the corridor and needs to be included in this effort.

Project Schedule

Both projects will be working on concept design, hoping to finish the Concept Report and hold a Concept Team Meeting before the end of the year. Both projects are aiming for a 2007 letting to construction, which is an aggressive schedule.

Randy Hulsey explained that the two projects were tied to the GRTA bond program and that the projects have aggressive schedules, but it is very important that the projects stay on schedule. GRTA has the money ready to be spent on these projects.

Project Concept Report PAGE 21
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

Project Issues

Both project teams have received property data through the Douglas County GIS department. The surveying and mapping process is currently underway.

Danny Godwin asked if a Public Information Meeting would be required, before the surveying is completed. Both projects will need a PIM. The PIM information will need to be coordinated with GDOT OEL.

The Property Owner Notification letters for Phase 2 survey activities were sent out September 30. To date the LPA Group has received one inquiry. Phase 1 will be mailing notification letters shortly.

Both project's Need & Purpose will be coordinated with GDOT Office of Planning. Ralph Merrow stated that it was all right to coordinate directly with the GDOT Planning Office as long as he was kept in the loop. Cedric Clark in Planning covers Douglas County.

Traffic projections will be reviewed and approved by GDOT OEL.

No major safety/maintenance issues were noted for either project. Accident data is available through the Douglas County sheriff's office for analysis.

Phase 1 will most likely widen Lee Road/S Sweetwater Road symmetrically, there is an equal number of resources to avoid on both sides of the road.

Phase 1 is proposing a realignment of the Lee Road/S Sweetwater Road intersection to facilitate the north-south traffic flow.

Phase 2 will most likely alternate between the left side and right side in order to minimize impact to several UST's, historic resources and the Sweetwater Creek Park and Recreation Area. Impacts to the park and recreation land would result in a 4-f and possible a 6-f depending on the funds used to purchase the land. It was also noted that there is a sewage pumping station located across the road from the Sweetwater Creek Park and Recreation Area. It was estimated that the cost of the pumping station was in excess of \$1 million dollars.

Preliminary traffic diagrams are underway and almost complete. The traffic engineering report will be submitted to Randy Hulseby when finished. A&R Engineering is doing the traffic for Phase 2.

DWA has some truck percentages for the corridor that will share with LPA.

There are ITS opportunities for both phases of Lee Road/South Sweetwater Road. Bankhead Highway serves as a parallel route to I-20 and acts as a spillover route when I-20 is heavily congested. Douglas County is interested in installing conduit and pullboxes along Lee Road so that the infrastructure could support future ITS development.

Project Concept Report PAGE 22
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

Staging and traffic control should be normal for these style projects. Phase 2 will be modifying several vertical curves to meet speed design. If Phase 1 is widened symmetrically, the design will need carefully consider staging to maintain existing traffic flow and property access during construction. Traffic calming measures will be evaluated in the LCI redevelopment project along South Sweetwater Road. Randy Hulsey would like to look for context sensitive design opportunities.

There is no known history of maintenance problems or flooding anywhere on either project.

The speed design for Phase 1 will be 45 mph south of the Skyview Drive intersection and 35 mph north of the Skyview Drive intersection. Phase 2's speed design will be 45 mph throughout. Both projects will use a curb&gutter system, but look at changing to a rural shoulder if property impacts can be minimized.

Scott Lee stated that he did not believe that using a 16' urban shoulder was GDOT policy, but that it was considered desirable. Both design teams would like to propose 12' urban shoulders in order to minimize property impacts. It was stated that using an urban shoulder less than 16' width might require a GDOT variance. It was also stated that Clear Zone requirements would need to be met no matter what shoulder width is used.

Danny Godwin stated that due to the preliminary traffic counts, Phase 2 fell within the threshold between using a paved flush median and a raised median. Randy Hulsey stated that he preferred using a raised median over a flush median and that he felt a raised median should be used on Phase 2. Both design teams would also like to propose a 20' raised median instead of the desirable 24'.

There are no design exceptions anticipated for either phase.

Ronnie Nix said that there is no funding available for landscaping features at this time.

Access control for both projects will be by permit, except for the limits of the interstate. Both projects contain large portions of commercial development. Douglas County is currently developing its own access management policies. If a raised median is used, Douglas County would like to be able to landscape it at some point in the future.

Several Douglas County officials have received phone calls requesting updates on the status of these two projects. They are mainly speculative commercial buyers. When the public involvement outreach begins, special attention will need to be paid to: Friends of Sweetwater Creek Park, Vulcan Quarry, Plantation Pipeline, and elderly residents along the northern end of Phase 1. In addition, there will need to be informal meetings with all the schools impacted by both projects. Any PIM's or public hearings will be open house style.

There will need to be coordination with GDOT and FHWA to resolve the termini questions for both phases and the possibility of bringing the I-20 interchange into one of the phases.

All of the utility companies present discussed where their utilities were located on both projects. These companies included: Austell Gas, GreyStone Power, BellSouth, the Douglasville-Douglas County Water & Sewer Authority, and GA Transmission. Randy Hulsey said that the county prefers to avoid having any

Project Concept Report PAGE 23
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

utilities under the pavement.

There is a Norfolk Southern rail line along the Northern end of Phase 1. There will be some coordination with them due to the possibility of changes to the Bankhead Highway/S Sweetwater Rd signal, which involves railroad pre-emption.

Plantation Pipe Line, Georgia Power, and Georgia Power Transmission all have easements and facilities crossing Lee Road on the Phase 2 segment. The county will check records to see whether the county or the Utilities have prior rights along the right of way. Coordination will be required with Plantation Pipe Line to try to minimize impacts to their major gas line crossing Lee Rd. It was noted that a SUE survey is included in the contracts on both projects.

Susan Thomas and Terri Malone reviewed the environmental concerns for both projects. Phase 1's primary concern is the 9 historic resources eligible for listing on the National Register. She will be meeting soon with OEL/SHPO for concurrence on these locations. Phase 2's primary concern is impacting Sweetwater Creek Park & reservoir near I-20. FHWA may require Edwards-Pitman Environmental to prepare one environmental document for the entire corridor, but this has not been decided yet.

The permits that will be needed for these projects are a 404 permit and a FEMA permit.

Multimodal concerns are important to Douglas County. There is a Park n Ride location at the southern end of Phase I that may or may not stay at that location in the future due to interchange reconstruction. Sidewalks should be placed on both sides of both projects from begin to end. Bike/ped groups are present in the area and may require additional coordination.

Other projects in the area that will need coordination include: I-20/Lee Road interchange reconstruction, the re-development of Lithia Springs affecting S Sweetwater Road, a possible extension of Lee Road across SR 92, and the widening of US 78/Bankhead Highway which is in GDOT Urban Design.

Next Steps

- Continue with concept development
- Submit traffic volumes to GDOT for approval
- Submit Need & Purpose to GDOT for approval
- Coordinate with GDOT on PIM

These meeting minutes reflect the notes and memory of Rob Dell-Ross. If any additions, deletions, or corrections are necessary, please contact Rob Dell-Ross at 404-249-7550 or rdell-ross@daywilburn.com. If no responses are received within five days, these meeting minutes will be considered final.

Project Concept Report PAGE 24
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

MEETING MINUTES

SUBJECT: MSL-0004-00(427) Douglas County
PI No 0004427
Widening Lee Road/South Sweetwater Road – Phase 1
Concept Team Meeting

MEETING DATE: December 13, 2004

TODAY'S DATE: December 20, 2004

PREPARED BY: Rob Dell-Ross, Day Wilburn Associates, Inc. (DWA)

ATTENDEES: Randy Hulsey, Douglas County DOT
Keary Lord, Douglas County DOT
Gary Westmoreland, Douglas County DOT
Carolyn Westbrook, Douglas County DOT
Eric Linton, Douglas County Development Services
Michelle Wright, City of Douglasville
Lisa Myers, GDOT Engineering Services
Wade Woodward, GDOT District 7 Utilities
Ralph Merrow Jr., GDOT District 7
Marshall Troup, GDOT District 7
Mike Lobdell, GDOT District 7
Sandy Beasley, GreyStone Power
Linda Edwards, Edwards-Pitman Environmental, Inc. (EPE)
Susan Thomas, EPE
Lee Maxfield, Moreland Altobelli Associates
Ronald Nix, Moreland Altobelli Associates
Jeff VanDyke, DWA
Rob Dell-Ross, DWA

LOCATION: Citizens Hall, Douglas County Courthouse

Introduction & Meeting Purpose

Jeff VanDyke began the meeting. Randy Hulsey welcomed everyone and thanked them for attending. There were many of the same people present from the Phase 2 Concept Team meeting earlier that morning. This project is following the Georgia Department of Transportation (GDOT) Plan Development Process (PDP) and is the Concept Phase. The Concept Team Meeting is an important meeting to discuss project issues and help develop the Concept Report.

Project Concept Report PAGE 25
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

Project Overview

Jeff VanDyke quickly reviewed the concept team meeting handouts. These included the Traffic Report, the Phase I Environmental screening for hazardous waste and UST's, the TIP, the STIP, and the CWP. Jeff VanDyke then gave a short walkthrough of the project noting typical section, signals, median opening and access issues.

Project MSL-0004-00(427) Douglas County is the widening of Lee Road/ South Sweetwater Road - Phase 1, which will begin at the intersection of Lee Road and Interstate 20 interchange and extend north approximately 1.9 miles to the intersection of South Sweetwater Road and US 78 (Bankhead Highway). Major intersections on the South Sweetwater Road portion are at US 78-Bankhead Highway, Skyview Drive, and Lee Road. On the Lee Road portion, major intersections are at Vulcan Drive and Sweetwater Industrial Boulevard. This project is proposed as a 4-lane divided facility from I-20 to Skyview Drive. Because of right of way and environmental constraints, a 2-lane section with a center turn lane is proposed from Skyview Drive to US 78 / Bankhead Highway. A realignment of Lee Road/South Sweetwater Road is proposed where Lee Road currently joins Sweetwater Road at a T-intersection.

The group noted that the Lee Road and I-20 interchange issues could delay the project. A meeting between GDOT and Douglas County had been discussed at the Phase 2 meeting. Jeff VanDyke discussed new access to the Park n Ride from Sweetwater Industrial Blvd in anticipation of the interchange project. Randy Hulsey stated that the Park n Ride may not stay in that location. The Lee Road interchange project combined with the I-20 HOV project may relocate the Park n Ride.

As the project was reviewed, Carolyn Westbrook pointed out that there is a cemetery located near the proposed fire station that is not identified on the map. DWA will look into this.

Project Schedule and Funding

Jeff VanDyke briefly described where the project is in terms of schedule. The Public Information Open House is scheduled for January 13, 2005. Randy Hulsey explained that due to GRTA funding, it is very important that the schedule is maintained and delays are minimized.

Project Issues

- Need and Purpose – The project need and purpose has been submitted to GDOT Planning and approved. There will be a small revision to reflect the 3-lane section of South Sweetwater Road, north of Skyview Drive.
- Project Definition and Background / Conformity – Jeff VanDyke noted the definition in the TIP and STIP. The 2025 conforming model contains four lanes from I-20 to Bankhead Highway. Jeff VanDyke asked Ralph Mellow if he could investigate why the project is in the TIP and STIP

but not the CWP. It was also noted that the project length was incorrect as shown in the TIP and the STIP.

- Location of Environmental Resources - Susan Thomas went over the environmental resources along the project including wetlands, historic resources and archaeology. The cemetery near Groovers Lake Road will be labeled on the aerial photography in time for the Public Information Open House.
- Public Input - The Public Information Open House is scheduled for January 13, 2005 from 4:00 – 7:00 PM. DWA will be submitting the advertisements for GDOT approval.
- Alternatives Considered - DWA considered several alternatives in the concept design phase. The proposed concept is essentially a symmetric widening. Widening all to one side resulted in more displacements and impacts to historic resources.
- Design Guidelines - DWA will be using current AASHTO green book, the Roadside Design guide, and GDOT policy/standards to design the project. No design exceptions are anticipated. The design speed for Lee Road south of Skyview Drive is 45 mph, north of Skyview Drive is 35 mph. The proposed maximum allowable SE will be 4%.
- Horizontal and Vertical Alignments - There are no anticipated horizontal or vertical alignment changes anticipated along the mainline other than the Lee Road / South Sweetwater Road realignment.. DWA and Douglas County have already coordinated on side street access.
- Typical Sections - DWA proposes two primary typical sections. South of Skyview Drive, there will be two 12' lanes in each direction with a 20' raised grass median and 16' urban shoulders with sidewalk. North of Skyview Drive, there will be one 11' lane in each direction with an 11' center two-way left turn lane and 16' urban shoulders with sidewalk.
- Access Control - Access control along the corridor will be by permit. Limited access will be adjacent to the interstate and will need to be coordinated with the interchange project.
- Practical Alternative Report - A Practical Alternative Report (PAR) will not be required for this project.
- Type of Environmental Document and Permits Required - Susan Thomas noted that an Environmental Assessment (EA) is appropriate and anticipates a Finding of No Significant Impact (FONSI). The 4(f) impacts have not been determined along the corridor and will not be known until preliminary design begins. If there are limited impacts to historic resources, Susan Thomas hopes for a programmatic 4(f).
- Status of LGPA and Project Management Agreements - Jeff VanDyke and Randy Hulsey briefly talked about the status of the LPGA agreements. Douglas County is currently working with

ject Concept Report PAGE 27
ject Number: MSL-0004-00(427)
. Number: 0004427
ounty: Douglas

GDOT to move the Lee Road interchange improvements out of the I-20 HOV corridor project. There are several issues to be resolved with GDOT before this can take place. DWA would like to begin the preliminary design phase. However, the County and Program Manager felt this was not prudent until the interchange issues are resolved. DWA will likely pause after the Concept Phase as these issues are resolved.

- Right of Way Requirements - Right-of-way for the project will be placed along the shoulder break point. DWA will avoid right-of-way or permanent easement within historic boundaries.
- Utilities - Many utility companies attended the Initial Concept Team Meeting. There will likely be significant utility relocation due to symmetric widening. Existing utilities will be located by a SUE subconsultant and circulated to the owners.
- Railroads - There will be some impacts to the Norfolk Southern rail crossing at the northern end of the project. DWA proposes widening Sweetwater Road at the railroad to 3 lanes north of the rail crossing in order to separate turning movements and improve traffic flow at the intersection with Bankhead Highway. This will likely cause some railroad facilities (gates and lights) to be relocated.
- Bridge Assessments and Structural Needs - There are no bridges within the project limits.
- Accident History – Crash data was reviewed during the traffic study and no major trends or locations were noted.
- Potential Soil Conditions and Constructability - Ronnie Nix pointed out that there are several locations of rock within the corridor. DWA will try to avoid cuts in the rock locations. These locations will need to be explored by the geotechnical subconsultant.
- Construction Limits – Construction limits will be defined during the preliminary plans phase.
- Maintenance of traffic - Maintenance of traffic during construction will be involved due to symmetric widening. Temporary pavement along the shoulder sections may be necessary to maintain 2 travel lanes at all times.
- Existing Maintenance Issues - There are no known significant existing maintenance issues. The existing pavement may be light for future traffic and will have to be investigated. Jeff VanDyk noted that the preliminary pavement design used for the Draft Concept Report was based on a 17% truck percentage. This high percentage was based on a classification count at the interstate. Randy Hulsey and Keary Lord both pointed out that truck percentages along the corridor will drop significantly once you are north of Vulcan Drive. Keary Lord offered to use Douglas County staff to perform a vehicle classification count to verify this. DWA investigate an additional classification count in an effort to reduce the pavement section north of Vulcan Drive.

Project Concept Report PAGE 28
Project Number: MSL-0004-00(427)
P.I. Number: 0004427
County: Douglas

- Capacity Analysis and Intersection Improvements - Capacity analysis and intersection configurations are included within the traffic study.
- ITS – Douglas County proposes to install empty conduit along the length of the corridor for future ITS opportunities. Pull-boxes could be installed later to help reduce initial cost.
- Construction Cost Estimates - Lisa Myers commented that the right-of-way estimate within the concept report is low. GDOT typically recommends using 3.47 times the actual ROW / Easement cost to account for other legal fees and contingencies involved in the acquisition process. Lisa Myers also commented that coordination with the interchange reconstruction is important to establish where the project begins and where Limit of Access will end. It was noted that FHWA prefers 500' of limited access from the ramp termini.

Comments, Concerns and Open Discussion

Keary Lord reiterated several comments he had previously emailed DWA regarding the traffic study. DWA will coordinate with Keary Lord on the responses.

Wade Woodard said that it is important to accurately reflect utility relocation costs within the concept report. DWA will examine this again.

Ralph Merrow submitted written comments on the concept report. Ralph Merrow and Mike Lobdell noted that DWA might not have used the latest concept report form. DWA will investigate.

Michelle Wright commented that it is important to start coordination with railroads as soon as possible.

Ronnie Nix submitted written comments on the concept report.

Lee Maxfield pointed out that DWA should design the profile to avoid cutting rock and/or blasting.

Susan Thomas asked that utility relocations be identified as soon as possible, because they may impact historic resources.

Next Steps

- Make revisions to concept report and submit final version
- Public Information Open House – January 13th, 4:00-7:00 PM

These meeting minutes reflect the notes and memory of Rob Dell-Ross. If any additions, deletions, or corrections are necessary, please contact Rob Dell-Ross at 404-249-7550 or rdell-ross@daywilburn.com. If no responses are received within five days, these meeting minutes will be considered final.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
DISTRICT 7 OFFICE

Project Number: MSL-0004-00(427)

County: Douglas County

P.I. NO. 0004427

PROJECT CONCEPT REPORT

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: N/A

Lee Road/South Sweetwater Road Widening – Phase 1

Recommended for approval:

DATE 3/14/05

Neil Summ
Project Manager

DATE 3/15/05

Ray H. Cole
District Engineer

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

3/23/05
DATE

Joseph P. Peltoli
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

NOTE: 1. Design Exception Notices may be req'd for lane widths & TWLTL
2. Page 5 - How does one landscape a TWLTL?

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
DISTRICT 7 OFFICE

Project Number: MSL-0004-00(427)

County: Douglas County

P.I. NO. 0004427

PROJECT CONCEPT REPORT

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: N/A

Lee Road/South Sweetwater Road Widening – Phase 1

Recommended for approval:

DATE 3/14/05

Neil Summ
Project Manager

DATE 3/15/05

Ray H. Cole
District Engineer

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

DATE

3-21-05

DATE

DATE

DATE

DATE

State Transportation Planning Administrator

James Thompson
Office of Financial Management Administrator

State Environmental / Location Engineer

State Traffic Safety & Design Engineer

Project Review Engineer

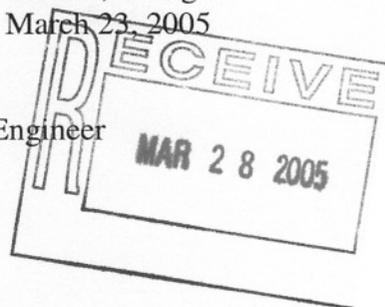
Department of Transportation State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

SL-0004-00(427), Douglas County
.. No. 0004427

Office: Traffic Safety & Design
Atlanta, Georgia
Date: March 23, 2005

✓✓
Keith Golden, P.E., State Traffic Safety and Design Engineer
Meg Pirkle, Assistant Director of Preconstruction



ect: Project Concept Report Review

We have reviewed the above referenced concept report for the proposed widening of Lee Road/South Sweetwater Road - Phase1 in Douglas County.

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

KG/SZ/nr

Attachment (signature page)

Cc: Harvey Keepler, State Environment /Location Engineer
David Mulling, State Review Engineer
Bryant Poole, District 7 Engineer
Attn.: Ralph Merrow, District Design
Joe Palladi, State Transportation Planning Administrator
Jamine Simpson, Financial Management Administrator
James Buchan, State Urban Design Engineer
General Files
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
DISTRICT 7 OFFICE

Project Number: MSL-0004-00(427)

County: Douglas County

P.I. NO. 0004427

PROJECT CONCEPT REPORT

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: N/A

Lee Road/South Sweetwater Road Widening – Phase 1

Recommended for approval:

DATE 3/14/05

Neil Summ
Project Manager

DATE 3/15/05

Ray H. Cole
District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental / Location Engineer

3-24-05

Heard

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

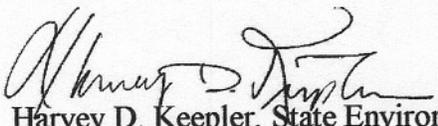
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0004427

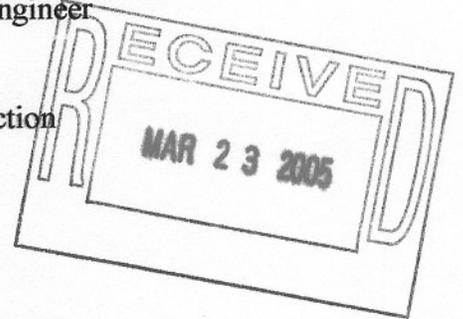
OFFICE: Environment/Location

DATE: March 21, 2005

FROM: 
Harvey D. Keeper, State Environmental/Location Engineer

TO: Margaret B. Pirkle, Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
MSL-0004-00(427) / Douglas County
Lee Road / South Sweetwater Road Widening –
Phase 1 from I-20 to Bankhead Highway / SR 8



The above subject concept report has been reviewed. The EA will require a PHOH after Draft Document is signed.

If you have any questions, please contact me at (404) 699-4401.

HDK/lc

Attachment

cc: David Mulling, Project Review Engineer
Bryant Poole, District 7 Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
DISTRICT 7 OFFICE

Project Number: MSL-0004-00(427)

County: Douglas County

P.I. NO. 0004427

PROJECT CONCEPT REPORT

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: N/A

Lee Road/South Sweetwater Road Widening – Phase 1

Recommended for approval:

DATE 3/14/05

Neil Summ
Project Manager

DATE 3/15/05

Bay H. Cole
District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

3.18.05

DATE _____

Shirley D. Kuper
State Environmental / Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
DISTRICT 7 OFFICE

Project Number: MSL-0004-00(427)

County: Douglas County

P.I. NO. 0004427

PROJECT CONCEPT REPORT

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: N/A

Lee Road/South Sweetwater Road Widening – Phase 1

Recommended for approval:

DATE 3/14/05

Neil Summ
Project Manager

DATE 3/15/05

Ray Hoole
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or 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

4/7/05
DATE

David J. Molloy, P.E.
Project Review Engineer