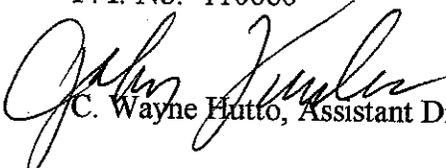


ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-IM-85-2(170) Jackson-Banks Counties **OFFICE** Preconstruction
P. I. No. 110660
DATE February 5, 2002
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

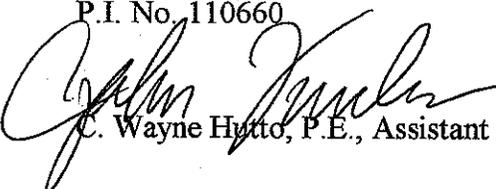
DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Jim Kennerly
FHWA
Larry Dent
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE NH-IM-85-2(170)Jackson-Banks Counties **OFFICE** Preconstruction
P.I. No. 110660
DATE October 18, 2001

FROM  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project is the widening and reconstruction of I-85 beginning just north of SR 98 in Jackson County and ending just north of US 441/SR 15 in Banks County for a total of 3.0 miles. The existing roadway consists of two lanes in each direction separated by a 64' depressed grass median. The existing major structures are as follows:

<u>LOCATION</u>	<u>DIMENSIONS</u>	<u>SUFFICIENCY RATING</u>
I-85 over Ridgeway Church Road/CR 296	NBL 103' x 45'	90.7
	SBL 112' x 45'	92.5
I-85 over Unnamed Creek	Double 10' x 8' culvert	70.0
US 441/SR 15 Overpass	264' x 81'	97.0
I-85 over Unnamed Creek	Double 10' x 8' culvert	69.0

I-85/SR 403, a rural principal arterial, is a primary corridor in northeast Georgia. The Level of Service (LOS) for this section of I-85 is presently at LOS "D." With a projected 70% increase in traffic by the year 2005, the LOS will decrease to "F" if the additional lanes are not constructed. The base year traffic (2005) is 51,200 VPD and the design year traffic (2025) is 87,100 VPD. The posted speed and the design speed are 70 MPH.

The construction proposes to widen I-85 to a six lane facility for the entire project length. The typical section will consist of three, 12' lanes in each direction with a 28' median with barrier and 16' outside paved shoulders. All widening will be to the inside and no additional right-of-way is required. Traffic will be maintained on existing roadways during construction.

Bridge construction will be as follows:

1. I-85 over Ridgeway Church Road/CR 296 -widen the existing bridges to the inside to form one bridge (108' x 137') that will span the inside median.
2. US 441/SR 15 Overpass - jack bridge to provide minimum clearance of 17'.

Frank L. Danchetz

Page 2

NH-IM-85-2(170) Jackson-Banks.

October 18, 2001

A design exception will be required for substandard stopping sight distance at MP 147.6 between SR 98 and CR 296.

Environmental concerns include requiring a ~~COE 404 Permit~~, a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$9, 288,000	\$9,042,000	LR	LR
Right-of-Way & Utilities	-0-	-0-		

This project will increase capacity, enhance safety and reduce congestion along this portion of I-85. I recommend this project concept be approved.

CWH:JDQ/cj

Attachment

CONCUR



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

APPROVE



~~F 6 L~~ Larry R. Dreihaupt, Division Administrator, FHV

See Comments transmitted via email 1/30/02 to Jim Kennerly

APPROVE



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

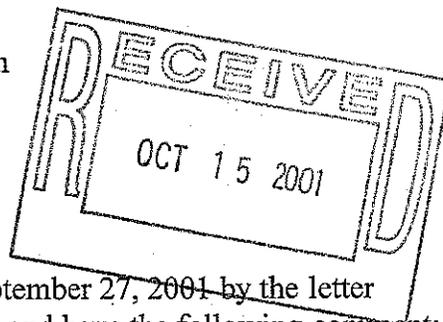
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: NH-IM-85-2(170) Jackson-Banks **OFFICE:** Engineering Services
P.I. Number 110660- **DATE:** October 15, 2001

FROM: David Mulling, ^{DTM} Project Review Engineer
TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted September 27, 2001 by the letter from James A. Kennerly dated September 27, 2001, and have the following comment:

1. Estimated quantities and unit prices used to determine the cost of the bridges, pipe, signing & marking, traffic control and other items were not provided in the cost estimate. Costs for these items cannot be verified without this information.

The costs for the project are:

Construction	\$7,366,000
Inflation	\$1,105,000
E&C	\$ 847,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 0

DTM

c: Jim Kennerly

SCORING RESULTS AS PER MOG 2440-2

Project Number: NH-IM-85-2(170)		County: JACKSON-BANKS		PI No.: 110660-		
Report Date: 9/27/01		Concept By:				
		DOT Office: ROAD DESIGN				
<input checked="" type="checkbox"/> CONCEPT						
		Consultant: Jordon, Jones & Goulding Inc.				
Project Type: Choose One From Each Column		<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input checked="" type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous		
FOCUS AREAS	SCORE	RESULTS				
Presentation	90%	Estimated quantities & unit prices used to determine cost for bridge, traffic control, signing & marking, other items not provided in estimate.				
Judgement	100%					
Environmental	100%					
Right of Way	100%					
Utility	100%					
Constructability	100%					
Schedule	100%					

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

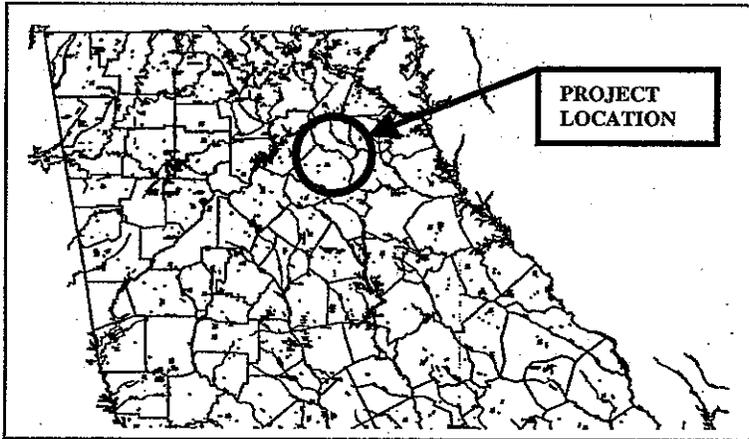
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Burt A. Stov
Project Manager

DATE 9-25-01

James Kerash
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

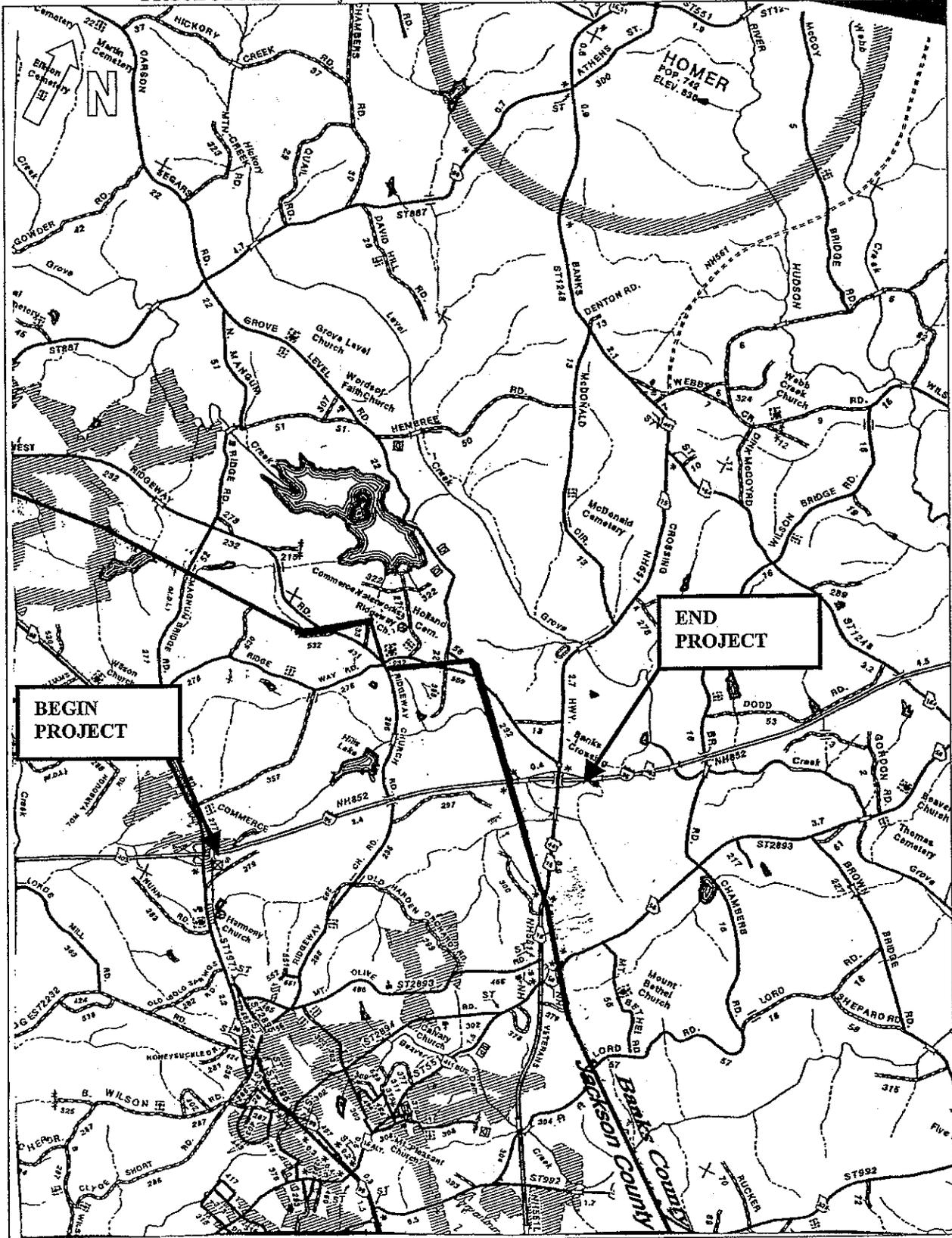
DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design

PROJECT MAP - Project No. : NH-IM-85-2-(170), Jackson/Banks Counties



Need and Purpose: *See attached Need & Purpose Statement*

Description of the proposed project:

This project is located in northern Jackson County and southern Banks County, beginning just north of SR 98 in Jackson County and ending just north of US 441/SR 15 in Banks County. The project will consist of widening the existing four lane mainline of I-85 to six lanes.

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

PDP Classification: *Minor, Existing Location*

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

Functional Classification: Rural Interstate Principal Arterial

U. S. Route Number(s): I-85

State Route Number(s): SR 403

Traffic (AADT):

Current Year (2005): 51,200

Design Year (2025): 87,100

Existing design features:

- Typical Section:
 - Four 12' lanes
 - 64' depressed median
 - 4' paved inside shoulder
 - 10' paved outside shoulder
- Posted speed: 70 mph Maximum degree of curvature: 1°00'
- Maximum grade: 3%
- Width of right of way: 300'
- Major structures:
 - 104'x45' and 112'x45' Two parallel two-lane bridges on ~~Ridgeway Church Road~~ ^{I-85} RIDGEWAY CHURCH ROAD _{JDC}
Struct. ID 157-0048-0 Suff. Rating 90.7 18-OCT-2001
157-0049-0 92.5
 - 238'x20' Reinforced Concrete Bridge Culvert-Double 10'x8'
Struct. ID 011-0025-0 Suff. Rating 70.0
 - 264'x81' Five-lane bridge on US 441/SR 15 over I-85
Struct. ID 011-0002-0 Suff. Rating 97.0

- 207'x40' Reinforced Concrete Bridge Culvert-Double 10'x8'
Struct. ID 001-0026-0 Suff. Rating 69.0
- Major interchanges or intersections along the project: US 441/SR 15
- Existing length of roadway segment and the beginning mile logs for each county segment: 3.0 miles; mile log 146.8-148.9 (Jackson Co.) & 148.9-149.8 (Banks Co.)

Proposed Design Features:

- Proposed typical section(s):
 - Six 12' lanes
 - Median barrier
 - 12'-9" paved inside shoulder
 - 16' paved outside shoulder
- Proposed Design Speed Mainline: 70 mph
- Proposed Maximum grade Mainline: 3.0% Maximum grade allowable: 4.0%
- Proposed Maximum grade Side Street: N/A Maximum grade allowable: N/A
- Proposed Maximum grade driveway: N/A
- Proposed Maximum degree of curve: 1° 00' Maximum degree allowable: 3° 00'
- Right of way
 - Width: 300' (Minimum)
 - Easements: Temporary (), Permanent (), Utility (), Other ()
 - Type of access control: Full (X), Partial (), By Permit (), Other ()
 - Number of parcels: 0 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - 108'x137' Widen two parallel two-lane bridges over Ridgeway Church Road (CR 296) on I-85 to two parallel three-lane bridges (includes a 28' median on structure)
- Major intersections and interchanges: *No interchange improvements expected*
- Traffic control during construction:
Traffic to be maintained on existing roadways during construction

- Design Exceptions to controlling criteria anticipated:

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

A Design Exception will be required for substandard stopping sight distance at milepost 147.6 between SR 98 and Ridgeway Church Road (CR 296).

- Design Variances: Stopping Sight Distance
- Environmental concerns: None anticipated
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements: *None*

Project responsibilities:

- Design: Georgia DOT
- Right of Way Acquisition: N/A
- Relocation of Utilities: N/A
- Letting to contract: Georgia DOT
- Supervision of construction: Georgia DOT
- Providing material pits: not determined
- Providing detours: N/A

Coordination

- Concept meeting date: June 13, 2001 Meeting minutes attached.
- P. A. R. meetings, dates and results: None required
- FEMA, USCG, and/or TVA: None to date
- Public involvement: A public information meeting will not be required
- Local government comments:
- Other projects in the area:
 - NH-IM-85-2(169), Jackson County, I-85 Widening from just north of SR 82 to just north of SR 98
 - NHS-M001-00(027), Gwinnett, Barrow, Jackson, and Banks Counties; Resurfacing of I-85 south of SR 211 in Gwinnett County to south of US 441/SR 15 in Banks County
 - IM-00MS(325), I-85 Safety Upgrades at SR 15 and SR 63 in Banks County and SR 51, SR 320, SR 106, and SR 17 in Franklin County and SR 77 in Hart County

Project Concept Report - Page
Project Number: NH-IM-85-2(170)
P. I. Number: 110660
Counties: Jackson/Banks

- *NH-IM-85-2(171), Banks County, I-85 Widening from just north of SR 15 to just north of SR 63*
- Other coordination to date
 - Future Passenger Rail Corridor: Yes No

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 6 Months
- Time to complete preliminary construction plans: 6 Months
- Time to complete right of way plans: 0 Months
- Time to complete the Section 404 Permit: 6 Months
- Time to complete final construction plans: 3 Months
- Time to complete to purchase right of way: 0 Months

Other alternates considered:

- **No Build:** *This alternative does not meet the capacity and operational needs of the project.*
- **Widen I-85 to six lanes while maintaining the existing 64' depressed median:** *This alternative would have met the required capacity, but would have required additional right-of-way acquisitions.*

Comments:

- *The section of I-85 between SR 98 and US 441/SR 15 will have a LOS E for the design year 2025. It is the intent of the Department to program future projects to bring the level-of-service up to an acceptable level.*
- *The existing four-lane bridge on US 441/SR 15 over I-85, recently constructed under Project No. IM-OOMS(325), will have a vertical clearance of 16.05' and should be jacked to provide a minimum clearance of 17.00'.*

Attachments:

1. Need and Purpose Statement
2. Cost Estimates:
 - a. Construction including E&C(10) and Inflation, \$9,263,295
 - b. Right of Way, \$0
 - c. Utilities, \$0
3. Typical sections,
4. Accident summaries
5. Capacity analysis,
6. Minutes of Concept meeting,
7. LGPA

NEED AND PURPOSE
PROJECTS NH-IM-85-2 (166-174)
BARROW, JACKSON, BANKS, FRANKLIN
P.I. NO. 110620, 110630, 110640, 110650, 110660, 110670, 110680, 110690, 110700
I-85/SR 403 IMPROVEMENTS

I-85/SR 403, a rural principal arterial, is a primary corridor in northeastern Georgia. The proposed project NH-IM-85-2 (166-174) would consist of adding one lane to I-85/SR 403 inside the median in each direction from SR 211 in Barrow County to north of SR 17 in Franklin County for a total of 47.2 miles.

Level of Service

The current Average Annual Daily Traffic (AADT) on I-85/SR 403 for projects NH-IM-85-2 (166-174) ranges from 35,800 to 42,800 providing a Level of Service in the "C" to "D" range. The projected (2025) traffic volumes for NH-IM-85-2 (166-174) range from 76,800 AADT to 95,300 AADT, providing for a LOS "F". The increasing traffic volumes, with 24% trucks, are projected to cause the roadway to reach unacceptable Levels of Service.

<i>Projects NH-IM-85-2</i>	<i>Current Year (2005) AADT</i>	<i>Current Year (2005) (LOS)</i>	<i>Design Year (2025) Projected AADT</i>	<i>Design Year (2025) Projected (LOS) Build</i>	<i>Design Year (2025) Projected (LOS) No Build</i>
(166)	51,600	D	95,300	E	F
(167)	51,600	D	87,700	D	F
(168)	53,800	D	91,500	E	F
(169)	53,200	D	90,500	E	F
(170)	51,200	D	87,100	E	F
(171)	51,200	D	87,100	E	F
(172)	49,500	D	84,200	E	F
(173)	47,000	C	79,900	D	F
(174)	45,200	C	76,800	D	F

Accidents

The latest year that complete accident data is available is 1997. The statewide average accident rate in 1997 for a rural interstate was 49 accidents per 100,000,000 vehicle miles traveled. Proposed projects NH-IM-85-2 (166-173) are below the statewide average. Proposed project NH-IM-85-2 (174) was above the statewide average.

<i>Projects NH-IM-85-2</i>	<i>Accidents</i>	<i>Accident Rate</i>	<i>Statewide Accident Average</i>
(166)	25	31	49
(167)	12	15	49
(168)	26	46	49
(169)	17	17	49
(170)	12	26	49
(171)	9	16	49
(172)	17	21	49
(173)	18	36	49
(174)	65	51	49

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: NH-IM-85-2(170)

COUNTIES: Jackson/Banks

DATE: August 2001

ESTIMATED LETTING DATE: 2002

PREPARED BY: Jill Hodges

PROJECT LENGTH: 3 Miles

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$ -
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0	\$ -
3. OTHER COST (ADM./COST, INFLATION)	\$ -
SUBTOTAL: A	\$ -
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ -
2. TRANSMISSION LINES	\$ -
3. SERVICES	\$ -
SUBTOTAL: B	\$ -
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	
a. BRIDGES	
Grade Separations (1)	\$ 362,880
Stream Crossings (0)	\$ -
SUBTOTAL: C-1.a	\$ 362,880
b. OTHER	
Walls	\$ -
Box Culverts	\$ -
Bridge Culverts (2) (2-10'x8',2-2-10'x8')	\$ -
SUBTOTAL: C-1.b	\$ -
SUBTOTAL: C-1	\$ 362,880
2. GRADING AND DRAINAGE:	
a. EARTHWORK	
In Place Embankment	\$ -
b. DRAINAGE	
1) Cross Drain Pipe	\$ 432,840
2) Curb and Gutter	\$ -
3) Longitudinal System (incl. catch basins)	\$ -
SUBTOTAL: C-2.b	\$ 432,840
SUBTOTAL: C-2	\$ 432,840

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: NH-IM-85-2(170)

COUNTIES: Jackson/Banks

DATE: August 2001

ESTIMATED LETTING DATE: 2002

PREPARED BY: Jill Hodges

PROJECT LENGTH: 3 Miles

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

PROJECT COST			
3. BASE AND PAVING:			
a. AGGREGATE BASE	53,925	Tons @ \$17.03	\$ 918,341
b. ASPHALT PAVING (Mainline & Cross-Roads):			
Drainage - Type D	12,342	Tons @ \$50.8	\$ 626,959
Surface - SMA	15,250	Tons @ \$54.93	\$ 837,677
Surface - Superpave	3,631	Tons @ \$42.56	\$ 154,549
Binder - SMA	-	Tons @ \$56.9	\$ -
Binder - Superpave	12,608	Tons @ \$38.43	\$ 484,510
Base - Superpave	41,760	Tons @ \$34.63	\$ 1,446,163
Pavement Reinf. Fabric Strips	28,856	Lane Ft @ \$2.84	\$ 81,951
	SUBTOTAL: C-3.b		\$ 3,631,809
c. CONCRETE PAVING (Ramps)	-	SY @ \$33.57	\$ -
d. OTHER (Leveling, Tack Coat, Milling)			\$ 553,715
	SUBTOTAL: C-3		\$ 5,103,865
4. LUMP ITEMS			
a. GRASSING			\$ (96,094)
b. CLEARING AND GRUBBING			\$ -
c. LANDSCAPING			\$ -
d. EROSION CONTROL			\$ 91,470
e. TRAFFIC CONTROL			\$ 115,424
	SUBTOTAL: C-4		\$ 110,799
5. MISCELLANEOUS:			
a. LIGHTING			\$ -
b. SIGNING - MARKING - SIGNALIZATION			\$ 72,140
c. GUARDRAIL			
Single-Faced			\$ 118,390
Double-Faced			\$ -
Anchors			\$ 34,414
	SUBTOTAL: C-5.c		\$ 152,803
d. SIDEWALK			\$ -
e. MEDIAN / SIDE BARRIER	17,064	- LF @ \$32.03	\$ 546,560
f. MOVABLE BARRIER SECTION			\$ -
g. ACCESS FENCE			\$ 211,761
h. BRIDGE JACKING			\$ 314,345
i. APPROACH SLABS			\$ -
j. REMOVAL			
Concrete Paving			\$ -
Bridges			\$ -
	SUBTOTAL: C-5.j		\$ -
k. ATMS Conduit	-	- LF @ \$37.78	\$ -
l. OTHER			\$ 57,712
	SUBTOTAL: C-5		\$ 1,355,321

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: NH-IM-85-2(170)

COUNTIES: Jackson/Banks

DATE: August 2001

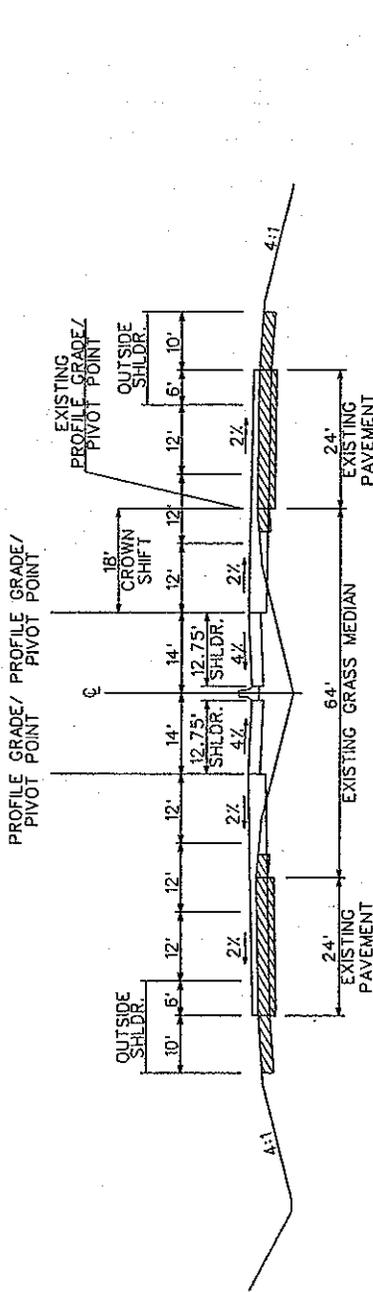
ESTIMATED LETTING DATE: 2002

PREPARED BY: Jill Hodges

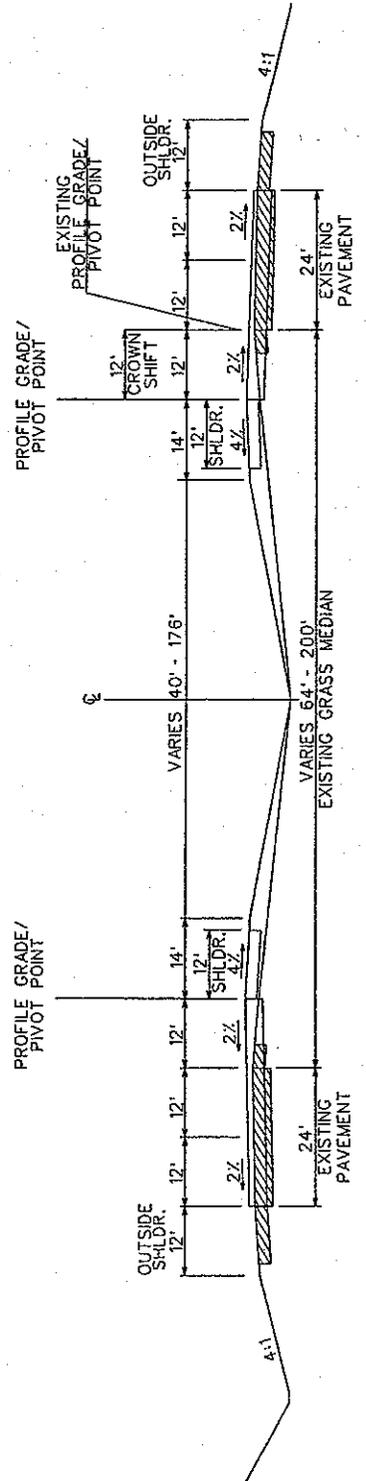
PROJECT LENGTH: 3 Miles

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

PROJECT COST	
6. SPECIAL FEATURES	
SUBTOTAL: C-6	\$ -
SUMMARY	
A. RIGHT-OF-WAY	\$ -
B. REIMBURSABLE UTILITIES	\$ -
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 362,880
2. GRADING AND DRAINAGE	\$ 432,840
3. BASE AND PAVING	\$ 5,103,865
4. LUMP ITEMS	\$ 110,799
5. MISCELLANEOUS	\$ 1,355,321
6. SPECIAL FEATURES	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 7,365,705
E. & C. (10%)	\$ 736,571
INFLATION (5% PER YEAR)	\$ 1,161,019
NUMBER OF YEARS 3	
TOTAL CONSTRUCTION COST	\$ 9,263,295
GRAND TOTAL PROJECT COST	\$ 9,263,295



TANGENT SECTION
I-85
WIDEN TO INSIDE
6 LANES TOTAL



TANGENT SECTION
I-85
WIDEN TO INSIDE
6 LANES TOTAL

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

ACCIDENT HISTORY			
<u>YEAR</u>	<u>Accident Rate</u>	<u>Injury Rate</u>	<u>Fatality Rate</u>
1995	44 (47)	23 (28)	0.00 (0.73)
1996	18 (50)	13 (29)	0.00 (1.32)
1997	26 (49)	20 (28)	0.00 (1.03)

Note: All rates are per 100 million vehicle miles of travel. Numbers in parentheses are statewide average rates for rural interstates.

A total of 9 accidents occurred at the intersections of SR 17 and the I-85 ramps between the years of 1995 and 1997. The accidents included 4 injuries and 0 fatalities. Five of the accidents occurred at the southbound I-85 ramp.

A total of 3 accidents occurred on SR 15 at the I-85 ramps between the years of 1995 and 1997. The accidents included 4 injuries and 0 fatalities.

*Get more info on
this one*

Harris Robinson
 Jordan, Jones & Goulding
 6801 Govenors Lake Parkway
 Building 200
 Norcross, GA 30071
 Phone: 770-455-8555
 E-mail: hrobinson@jjg.com

Fax: 678-333-0324

Design Analysis

Analyst: VHR
 Agency or Company: GDOT
 Date Performed: 8/25/99
 Analysis Time Period: PM Design Hour
 Freeway/Direction: I-85 NB
 From/To: SR 98 to SR 15 (wo #29)
 Jurisdiction: Jackson County
 Analysis Year: 2025
 Description: NH-IM-85-2(170)

Flow Inputs and Adjustments

Volume, V	5480	veh/h
Peak-hour factor, PHF	0.95	
Peak 15-min volume, v15	1442	v
Trucks and buses	25	%
Recreational vehicles	0	%
Terrain Type	Grade	
Grade	1.23	%
Segment length	0.30	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicles PCE, ER	1.2	
Heavy vehicles adjustment, fHV	0.889	
Driver population factor, vp	1.00	
Flow rate, vp	6490	pc/h
Desired level of service	E	

Speed Inputs and Adjustments

Lane width, LW	12.0	m
Right-shoulder lateral clearance, LC	6.0	m
Interchange density, ID	0.37	interchange/mi
Free-flow speed:	Ideal	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed	67.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Desired level of service E

Design flow rate, v_p	6490	pc/h
Design free-flow speed, FFS	67.0	mi/h
Number of lanes required, N	3	
Average passenger-car speed, S	59.3	mi/h
Density, D	36.5	pc/mi/ln
Level of service	E	

Fewer number of lanes required will not produce the desired LOS.
Overall results are not computed when free-flow speed is less than 55 mph.

Harris Robinson
 Jordan, Jones & Goulding
 6801 Govenors Lake Parkway
 Building 200
 Norcross, GA 30071
 Phone: 770-455-8555
 E-mail: hrobinson@jjg.com

Fax: 678-333-0324

Design Analysis

Analyst: VHR
 Agency or Company: GDOT
 Date Performed: 8/25/99
 Analysis Time Period: PM Design Hour
 Freeway/Direction: I-85 NB
 From/To: SR 98 to SR 15 (wo #29)
 Jurisdiction:
 Analysis Year: 2025
 Description: NH-IM-85-2(170)

Flow Inputs and Adjustments

Volume, V	5480	veh/h
Peak-hour factor, PHF	0.95	
Peak 15-min volume, v15	1442	v
Trucks and buses	25	%
Recreational vehicles	0	%
Terrain Type	Grade	
Grade	1.23	%
Segment length	0.30	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicles PCE, ER	1.2	
Heavy vehicles adjustment, fHV	0.889	
Driver population factor, vp	1.00	
Flow rate, vp	6490	pc/h
Desired level of service	E	

Speed Inputs and Adjustments

Lane width, LW	12.0	m
Right-shoulder lateral clearance, LC	6.0	m
Interchange density, ID	0.37	interchange/mi
Free-flow speed:	Ideal	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed	67.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Desired level of service E

Design flow rate, v_p	6490	pc/h
Design free-flow speed, FFS	67.0	mi/h
Number of lanes required, N	3	
Average passenger-car speed, S	59.3	mi/h
Density, D	36.5	pc/mi/ln
Level of service	E	

Fewer number of lanes required will not produce the desired LOS.
Overall results are not computed when free-flow speed is less than 55 mph.

HCS2000: Ramps and Ramp Junctions Release 4.1

Harris Robinson
 Jordan, Jones & Goulding
 6801 Govenors Lake Parkway
 Building 200
 Norcross, GA 30071
 Phone: 770-455-8555
 E-mail: hrobinson@jjg.com

Fax: 678-333-0324

Diverge Analysis

Analyst: VHR
 Agency/Co.: GA DOT
 Date performed: 6/1/01
 Analysis time period: P.M. Peak Hour
 Freeway/dir or travel: NB I-85
 Junction: U.S. 441
 Jurisdiction: Jackson County
 Analysis Year: 2025
 Description: Parallel Ramp

Freeway Data

Type of analysis	Diverge	
Number of lanes in freeway	3	
Free-flow speed on freeway	70.0	mph
Volume on freeway	5480	vph

Off Ramp Data

Side of freeway	Right	
Number of lanes in ramp	1	
Free-Flow speed on ramp	55.0	mph
Volume on ramp	1280	vph
Length of first accel/decel lane	660	ft
Length of second accel/decel lane		ft

Adjacent Ramp Data (if one exists)

Does adjacent ramp exist?	No	
Volume on adjacent ramp		vph
Position of adjacent ramp		
Type of adjacent ramp		
Distance to adjacent ramp		ft

Conversion to pc/h Under Base Conditions

Junction Components	Freeway	Ramp	Adjacent
Volume, V (vph)	5480	1280	vph
Peak-hour factor, PHF	0.95	0.95	
Peak 15-min volume, v15	1442	337	v
Trucks and buses	25	25	%

recreational vehicles	U	U	%
Terrain type:	L _r	I	Level
Grade	0.00	%	0.00 %
Length	0.00	mi	0.00 mi
Trucks and buses PCE, ET		1.5	1.5
Recreational vehicle PCE, ER		1.2	1.2
Heavy vehicle adjustment, fHV		0.889	0.889
Driver population factor, fP		1.00	1.00
Flow rate, vp	6490	1515	pcph

Estimation of V12 Diverge Areas

L = 0.00 (Equation 25-8 or 25-9)

EQ

P = 0.528 Using Equation 5

FD

$v = v + (v - v)P = 4142$ pc/h

12 R F R FD

Capacity Checks

	Actual	Maximum	LOS F?
v = v	6490	7200	No
Fi F			
v	4142	4400	No
12			
v = v - v	4975	7200	No
FO F R			
v	1515	2200	No
R			

Level of Service Determination (if not F)

Density, $D = 4.252 + 0.0086 v - 0.009 L = 33.9$ pc/mi/ln

Level of service for ramp-freeway junction areas of influence D

Speed Estimation

Intermediate speed variable, $D = 0.304$

Space mean speed in ramp influence area, $S = 61$ mph

Space mean speed in outer lanes, $S = 71.5$ mph

Space mean speed for all vehicles, $S = 64.8$ mph

HCS2000: Ramps and Ramp Junctions Release 4.1

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 Building 200
 Norcross, GA 30071
 Phone: 770-455-8555
 E-mail: hrobinson@jjg.com

Fax: 678-333-0324

Merge Analysis

Analyst: VHR
 Agency/Co.: GDOT
 Date performed: 6/5/01
 Analysis time period: P.M. Peak Hour
 Freeway/dir or travel: NB I-85
 Junction: SR 441
 Jurisdiction: Jackson County
 Analysis Year: 2025
 Description:

Freeway Data

Type of analysis 65.5
 Number of lanes in freeway 3
 Free-flow speed on freeway 70.0 mph
 Volume on freeway 4200 vph

On Ramp Data

Side of freeway Right
 Number of lanes in ramp 1
 Free-flow speed on ramp 55.0 mph
 Volume on ramp 1345 vph
 Length of first accel/decel lane 700 ft
 Length of second accel/decel lane ft

Adjacent Ramp Data (if one exists)

Does adjacent ramp exist? No
 Volume on adjacent Ramp vph
 Position of adjacent Ramp
 Type of adjacent Ramp
 Distance to adjacent Ramp ft

Conversion to pc/h Under Base Conditions

Junction Components	Freeway	Ramp	Adjacent
Volume, V (vph)	4200	1345	vph
Peak-hour factor, PHF	0.95	0.95	
Peak 15-min volume, v15	1105	354	v
Trucks and buses	25	25	%

Recreational vehicles	Level	Level	Level
Terrain type:	Level	Level	Level
Grade	%	%	%
Length	mi	mi	mi
Trucks and buses PCE, ET		1.5	1.5
Recreational vehicle PCE, ER		1.2	1.2
Heavy vehicle adjustment, fHV		0.889	0.889
Driver population factor, fP	1.00	1.00	
Flow rate, vp	4974	1593	pcph

Estimation of V12 Merge Areas

$$L = 0.00 \text{ (Equation 25-2 or 25-3)}$$

EQ

$$P = 0.597 \text{ Using Equation 1}$$

FM

$$v = v(P) = 2970 \text{ pc/h}$$

12 F FM

Capacity Checks

	Actual	Maximum	LOS F?
v	6567	7200	No
FO			
v	4563	4600	No
R12			

Level of Service Determination (if not F)

$$\text{Density, } D = 5.475 + 0.00734 v_R + 0.0078 v_{12} - 0.00627 L_A = 35.9 \text{ pc/mi/ln}$$

Level of service for ramp-freeway junction areas of influence E

Speed Estimation

Intermediate speed variable, $M = 0.618$

Space mean speed in ramp influence area, $S_R = 52.7 \text{ mph}$

Space mean speed in outer lanes, $S_0 = 64.6 \text{ mph}$

Space mean speed for all vehicles, $S = 55.8 \text{ mph}$

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Diverge Analysis

Analyst: VHR
 Agency/Co.: GA DOT
 Date performed: 6/1/01
 Analysis time period: A.M. Peak Hour
 Freeway/dir or travel: SB I-85
 Junction: State Rout 441
 Jurisdiction: Jackson County
 Analysis Year: 2025
 Description: Parallel Ramp

Freeway Data

Type of analysis	Diverge	
Number of lanes in freeway	3	
Free-flow speed on freeway	70.0	mph
Volume on freeway	5585	vph

Off Ramp Data

Side of freeway	Right	
Number of lanes in ramp	1	
Free-Flow speed on ramp	55.0	mph
Volume on ramp	1385	vph
Length of first accel/decel lane	740	ft
Length of second accel/decel lane		ft

Adjacent Ramp Data (if one exists)

Does adjacent ramp exist?	No	
Volume on adjacent ramp		vph
Position of adjacent ramp		
Type of adjacent ramp		
Distance to adjacent ramp		ft

Conversion to pc/h Under Base Conditions

Junction Components	Freeway	Ramp	Adjacent
	Ramp		
Volume, V (vph)	5585	1385	vph
Peak-hour factor, PHF	0.95	0.95	
Peak 15-min volume, v15	1470	364	v
Trucks and buses	25	25	%

Recreational vehicles		0		%
Terrain type:	Level	Level	Level	
Grade	0.00 %	0.00 %		%
Length	0.00 mi	0.00 mi		mi
Trucks and buses PCE, ET		1.5	1.5	
Recreational vehicle PCE, ER		1.2	1.2	
Heavy vehicle adjustment, fHV		0.889	0.889	
Driver population factor, fP	1.00	1.00		
Flow rate, vp	6615	1640		pcph

Estimation of V12 Diverge Areas

L = 0.00 (Equation 25-8 or 25-9)

EQ

P = 0.519 Using Equation 5

FD

$v = v + (v - v) P = 4223$ pc/h

12 R F R FD

Capacity Checks

	Actual	Maximum	LOS F?
$v = v$	6615	7200	No
Fi F			
v	4223	4400	No
12			
$v = v - v$	4975	7200	No
FO F R			
v	1640	2200	No
R			

Level of Service Determination (if not F)

Density, $D = 4.252 + 0.0086 v - 0.009 L = 33.9$ pc/mi/ln

Level of service for ramp-freeway junction areas of influence D

Speed Estimation

Intermediate speed variable, $D = 0.316$

S

Space mean speed in ramp influence area, $S = 61$ mph

R

Space mean speed in outer lanes, $S = 71.4$ mph

0

Space mean speed for all vehicles, $S = 64.5$ mph

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 6801 Governors Lake Parkway
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 Norcross, GA 30071
 Phone: 770-455-8555
 E-mail: hrobinson@jjg.com

Fax: 678-333-0324

Merge Analysis

Analyst: VHR
 Agency/Co.: GDOT
 Date performed: 6/5/01
 Analysis time period: A.M. Peak Hour
 Freeway/dir or travel: SB I-85
 Junction: SR 441
 Jurisdiction: Jackson County
 Analysis Year: 2025
 Description:

Freeway Data

Type of analysis	65.6	
Number of lanes in freeway	3	
Free-flow speed on freeway	70.0	mph
Volume on freeway	4200	vph

On Ramp Data

Side of freeway	Right	
Number of lanes in ramp	1	
Free-flow speed on ramp	55.0	mph
Volume on ramp	1280	vph
Length of first accel/decel lane	700	ft
Length of second accel/decel lane		ft

Adjacent Ramp Data (if one exists)

Does adjacent ramp exist?	No	
Volume on adjacent Ramp		vph
Position of adjacent Ramp		
Type of adjacent Ramp		
Distance to adjacent Ramp		ft

Conversion to pc/h Under Base Conditions

Junction Components	Freeway	Ramp	Adjacent
Volume, V (vph)	4200	1280	vph
Peak-hour factor, PHF	0.95	0.95	
Peak 15-min volume, v15	1105	337	v
Trucks and buses	25	25	%

Recreational vehicles		0	%
Terrain type:	Level	Level	Level
Grade	%	%	%
Length	mi	mi	mi
Trucks and buses PCE, ET		1.5	1.5
Recreational vehicle PCE, ER		1.2	1.2
Heavy vehicle adjustment, fHV		0.889	0.889
Driver population factor, fP		1.00	1.00
Flow rate, vp	4974	1516	pcph

Estimation of V12 Merge Areas

L = 0.00 (Equation 25-2 or 25-3)

EQ

P = 0.597 Using Equation 1

FM

$v = v(P) = 2970$ pc/h

12 F FM

Capacity Checks

	Actual	Maximum	LOS F?
v	6490	7200	No
FO			
v	4486	4600	No
R12			

Level of Service Determination (if not F)

Density, $D = 5.475 + 0.00734 v_R + 0.0078 v_{12} - 0.00627 L_A = 35.4$ pc/mi/ln

Level of service for ramp-freeway junction areas of influence E

Speed Estimation

Intermediate speed variable,	M = 0.590
Space mean speed in ramp influence area,	S = 53.5 mph
Space mean speed in outer lanes,	S = 64.6 mph
Space mean speed for all vehicles,	S = 56.5 mph

**CONCEPT MEETING MINUTES
I-85 WIDENING AND IMPROVEMENTS FROM
NORTH OF SR 211 (BARROW CO.)
TO NORTH OF SR 17 (FRANKLIN CO.)**

Project Number NH-85-2(166-174)

P.I. No. 110620, 110630, 110640, 110650, 110660, 110670, 110680, 110690, 110700

Barrow, Jackson, Banks and Franklin Counties

Wednesday, June 13, 2001 10:00 a.m.

Meeting at GDOT Office of Road Design

- Brent Story began the meeting by reviewing the concept report. The proposed typical section consists of widening the mainline to six travel lanes with a median barrier and grading for a future fourth lane in each direction. All interchange bridge replacement projects and the I-85 mainline will accommodate the future eight lane typical section for the mainline.
- Brent Story requested the Need and Purpose statement. Michelle Caldwell stated the main need for these project is to increase capacity on I-85 mainline.
- Parks Preston said that a CE would be required for this project. He suggested covering the entire corridor of I-85 under one document. A public information meeting would not be scheduled for this project.
- Brent Story expressed concern that some proposed bridges over I-85 would not meet the required 17 ft. vertical clearance. Dave Painter suggested coordination with the Office of Maintenance to verify the vertical clearance on all newly constructed and proposed bridges over I-85. Brent stated that some vertical clearance problems might be resolved by milling the I-85 mainline.
- Dave Painter suggested placing the resurfacing project, NHS-M001-00(027) Resurfacing of I-85 south of SR211 to south of US441/SR15 through Gwinnett, Barrow, Jackson, and Banks Counties, on hold pending the completion of the I-85 mainline widening projects. The existing I-85 mainline pavement is in immediate need of repair, and the resurfacing project should continue as scheduled.
- Jill Hodges stated that JYG studied the reconstruction of parallel exit and entrance ramps to taper type to meet the current GDOT standards. In most cases, the reconstruction would require additional right of way, and should be considered under a separate project.
- Dave Painter and Joe Garland requested the vertical alignment analysis calculations that locate the substandard vertical curves.
- Brent Story requested the Office of Utilities to provide cost estimates for any utility replacements on existing bridges if jacking is required.
- Katy Allen expressed concern with the Need and Purpose statement for these projects. The main need is to increase capacity on the I-85 mainline. She stated that LOS of D or E does not meet FHWA requirements. Harris Robinson commented the capacity analysis showed a need to widen I-85 mainline to 8 travel lanes for the design year. Jim Kennerly stated the additional lanes would require right-of-way. Future projects will be programmed to widen I-85 for the additional travel lanes.

- Due to the widening of I-85 mainline, Harris Robinson indicated the possible need to relocate some advance signs from ground to overhead.
- The Office of Maintenance has made recommendations for I-85 mainline bridge improvements.
- Jim Kennerly questioned the horizontal clearance for the future eight lane mainline section. Ms. Hodges stated that all the newly constructed interchanges would meet the required 18 ft. minimum clearance from the inside edge of shoulder to the bridge column face. The cross roads, however, will need to be replaced.
- The pavement design for I-85 mainline is based on the GDOT recommendation NH-IM-85-2(164-165) in Gwinnett Counties dated January 2, 2001. The pavement design was used for the entire I-85 corridor through Barrow, Jackson, Banks, and Franklin Counties. David Painter recommended that the proposed pavement design for I-85 mainline include PEM.
- David Millen suggested conducting a Value Engineering study for the whole corridor along I-85.
- Brook Martin requested conduit be added to any I-85 mainline bridge replacement.

Project Comments:

- NH-85-2(166)-At Exit 126 SR53/Green Street, Dave Painter suggested realigning the Mt. Zion Church Road away from the northbound entrance ramp. Jim Kennerly stated the need for additional right-of-way and suggested the relocation of Mt. Zion Church Road be considered under a different project. Joe Garland stated that new rest areas were being developed in this area.
- NH-85-2(167)-At Exit 137 US129/SR11/Lee Street, the parallel exit ramps need to be lengthened to meet the GDOT requirement of 740 ft. Harris Robinson recommends future projects be considered that will add an additional lane to the exist ramps to increased the LOS.
- NH-85-2(168)-No comments
- NH-85-2(169)-No comments
- NH-85-2(170)- Harris Robinson recommends future projects be considered that increased the exit ramp's LOS. Joe Garland and Dave Painter agreed on the need for additional lanes on the ramps.
- NH-85-2(171)-No comments
- NH-85-2(172)-No comments
- NH-85-2(173)-No comments
- NH-85-2(174)-Brent Story stated the need for a vertical clearance design exception for the railroad bridge just north of SR17. Milling and reconstruction of the I-85 mainline has been considered.

In Attendance:

<u>Name</u>	<u>Organization</u>	<u>Phone number</u>
Brent Story	GDOT	404-656-5383
Brook Martin	GDOT-Traffic Operations	404-635-8127
Katie Mullins	GDOT-Office of Planning	404-651-7043
David Mulling	GDOT-Engineering Services	404-656-6846
Katy Allen	FHWA	404-569-3904
Parks Preston	GDOT-Envir/Loc	404-699-4411
Joe Leoni	GDOT-Road Design	404-656-5390
Michelle Caldwell	GDOT-Planning	404-651-5327
Keisha Nembhard	GDOT-Planning	404-657-6094
Cindy VanDyke	GDOT-Planning	404-657-6696
Dave Painter	FHWA	404-562-3658
Joe Garland	GDOT-District 1	770-532-5563
Reid Matthews	GDOT-Maintenance	404-657-6051
David Norwood	GDOT	404-656-5383
Harris Robinson	Jordan, Jones and Goulding Inc.	678-333-0431
Jill Hodges	Jordan, Jones and Goulding Inc.	678-333-0421
Cindy Lee	Jordan, Jones and Goulding Inc.	678-333-0424

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN**

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

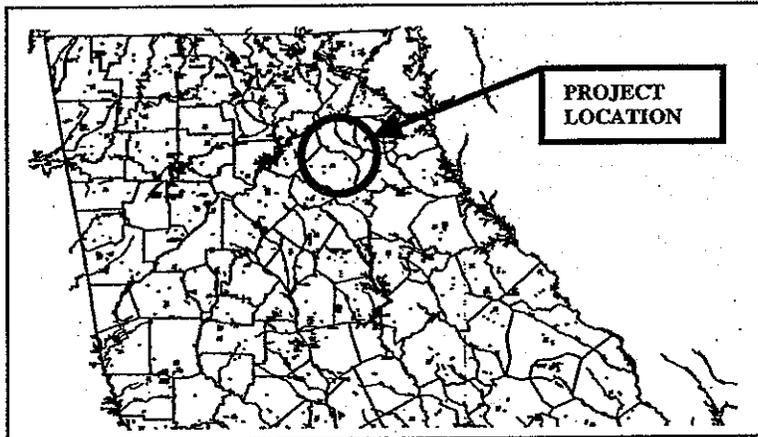
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Brent A. Stov
Project Manager

DATE 9-25-01

James Kersey
Office Head/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 the State Transportation Improvement Program (STIP).

DATE 10-2-01

Michael R. ...
State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design
Page 1

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN**

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

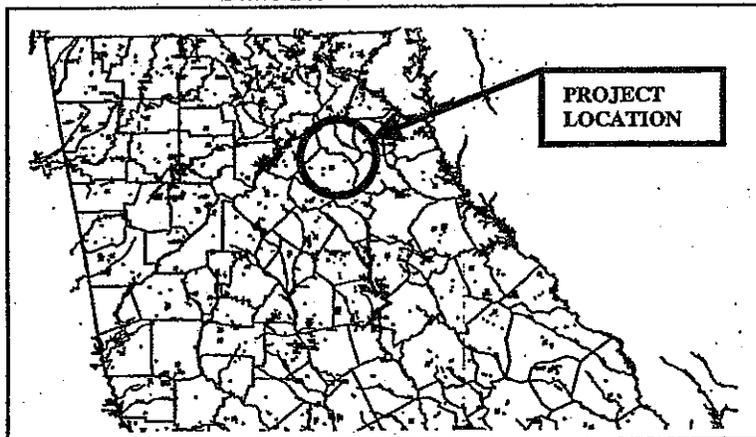
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Burt A. Stoy
Project Manager

DATE 9-25-01

Jane Kennedy
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 10-2-01

Larry E. Denton
District Engineer

DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN**

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

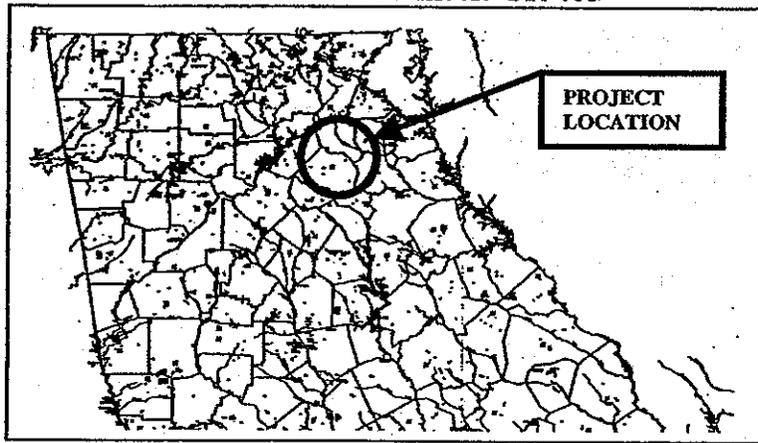
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Burt A. Stone
Project Manager

DATE 9-25-01

Jane Kessick
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

DATE 9/27/01

Sharon L. Suter
State Transportation Planning Administrator
State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design

Comment
page 3

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

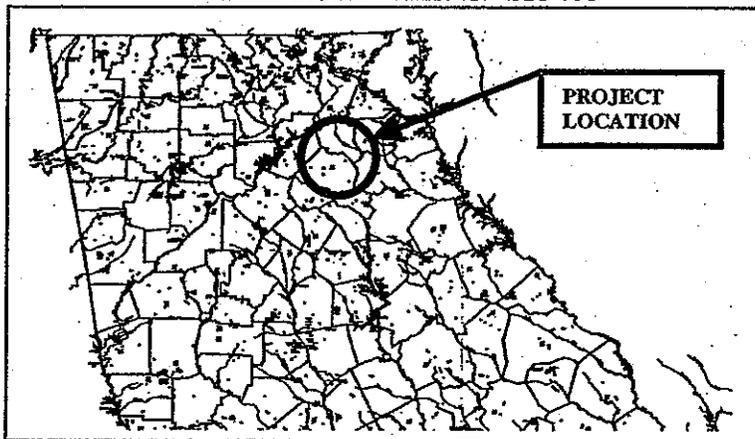
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Burt A. Stou
Project Manager

DATE 9-25-01

James Kerueh
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

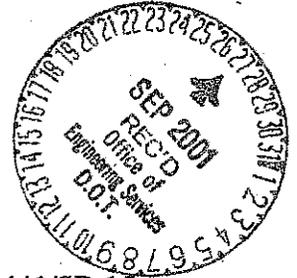
DATE _____

Project Review Engineer

DATE 9/28/01

Paul V. Miles Jr.
Office of Bridge and Structural Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN



PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

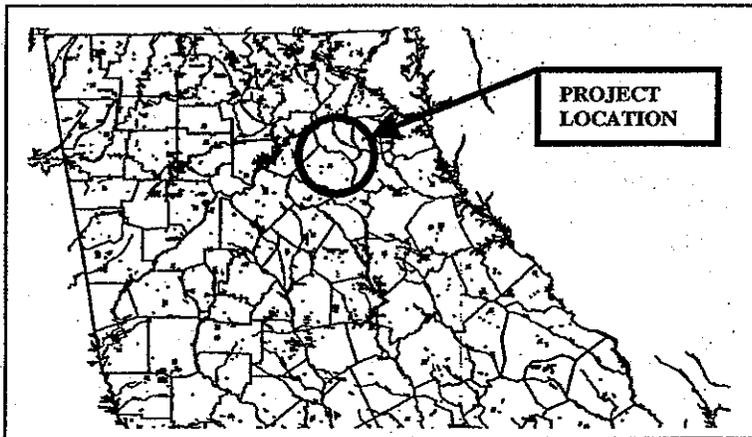
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Brent A. Stov
Project Manager

DATE 9-25-01

James Kersey
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

DATE 10/12/01

O. J. Mullis
District Engineer
Project Review Engineer

DATE _____

Office of Bridge and Structural Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN**

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

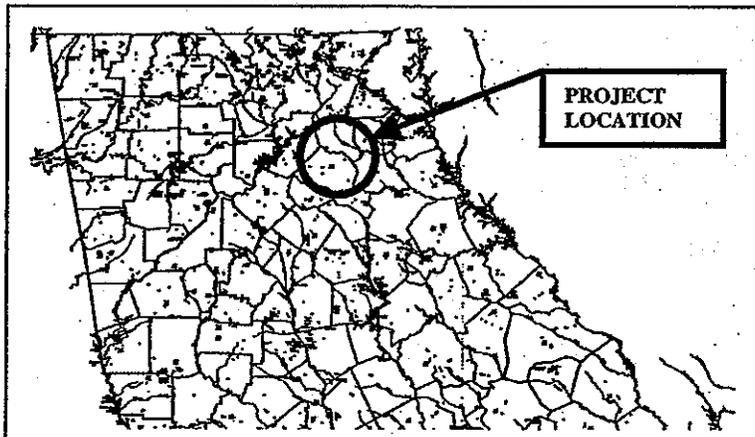
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Brent A. Stov
Project Manager

DATE 9-25-01

James Kearney
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE 10/16/01

Thomas D. Kasper
State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN**

PROJECT CONCEPT REPORT

I-85 Widening and Improvements from north of SR 98 to north of US 441/SR 15

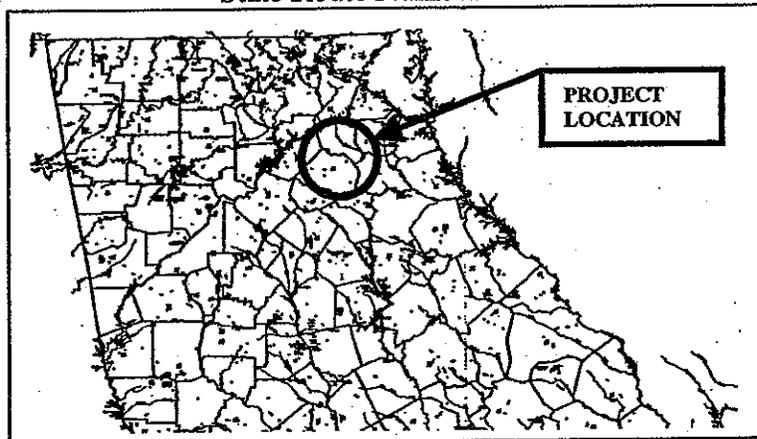
Project Number: NH-IM-85-2(170)

Counties: Jackson/Banks

P. I. Number: 110660

Federal Route Number: I-85

State Route Number: SR 403



Recommendation for approval:

DATE 9-11-01

Burt A. Stone
Project Manager

DATE 9-25-01

Jane Kerueh
Office Head/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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE 10-15-01

Phillip M. Allen
State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

Office of Bridge and Structural Design

David Painter - RE: RE: I-85 Widening Concept

From: David Painter
To: "Todd.Long@dot.state.ga.us".gwhub.hubsmtg; Kennerly, Jim; McMurry, Russell; Story, Brent
Date: 1/30/02 2:15 PM
Subject: RE: RE: I-85 Widening Concept

I don't think that we got an opportunity to discuss these during GQI. Here is my understanding of our current agreement on these projects.

1. GDOT will create a separate project to move the two frontage roads away from the interstate. One of these roads is named Mt Zion Church Rd. I don't know the name of the other one.
2. GDOT will look at improving the substandard vertical curves on units (Units 168, 173 and 174) in Jackson and Frankin during preliminary engineering phase. These units had accident histories that were higher than the statewide averages. I don't think we can definitively say that the vertical curvature is the problem given the quality of our accident data, but I think we should give strong consideration to fixing the curvature rather than granting a design exception.

In addition, per Walter Boyd's recommendation, I would like to see our design consultant evaluate the accel/decel distances of every ramp in this corridor and plan upgrades, if needed, as part of this project.

>>> Todd.Long@dot.state.ga.us 12/05/01 11:22AM >>>

Russell and I will see you at GQI to discuss.

Todd

-----Original Message-----

From: David Painter
To: brent.story@dot.state.ga.us ; Russell.McMurry@dot.state.ga.us ;
Todd.Long@dot.state.ga.us ; Marvin Woodward
Sent: 12/4/01 11:36 AM
Subject: Fwd: RE: I-85 Widening Concept

See attached emails. 3-4 of the project segments had accident histories that approached or were higher than the statewide averages. That worries me since the interstates are almost always the safest component of the roads that go into the statewide average. If the vertical curvature is the problem (we may have problems determining the problem given the quality of our accident data) then I would hope we would give strong consideration to fixing the curvature rather than granting a design exception.

<<RE: I-85 Widening Concept>>