

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006332, Fulton-Clayton Counties **OFFICE** Preconstruction
CSNHS-006-00(332)
I-85 ATMS **DATE** February 17, 2006

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

TO SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

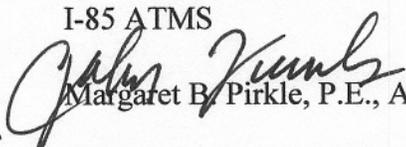
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**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0006332, Fulton-Clayton Counties **OFFICE** Preconstruction
CSNHS-006-00(332)
I-85 ATMS **DATE** September 1, 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 expansion of Georgia DOT's Navigator system on I-85 from SR 74 to Camp Creek Parkway in Fulton and Clayton Counties. The Navigator system has nearly reached full integration inside the I-285 perimeter highway. It is currently being extended along SR 166 in Fulton County and SR 141 in DeKalb and Gwinnett Counties with further projects on I-20, I-75, I-85, K-285, I-675, I-985, SR 316, SR 400, and SR 410 planned as part of the Fast Forward Program. The expansion of the Navigator system in this region will help alleviate the congestion being experienced along this corridor during peak hours.

This project will extend the fiber optic trunk line along I-85 from the existing Hub K near the interchange with I-285. The project will connect a fiber optic cable from Hub K to the existing cable that begins at Hub J and terminates at Camp Creek Parkway. The fiber optic trunk line will be located on the northbound and southbound sides as close to the back of the clear zone as possible. The trunk line may enter the paved shoulder to cross bridges and other locations where it is not feasible to locate outside the paved shoulder. The trunk line will be carried within continuous conduit duct banks, which will have four, 2" cells. Crossover links will be installed at Camp Creek Parkway, Riverdale Road, Old National Highway, Flat Shoals Road, SR 138, and SR 74 to provide links between the northbound and southbound fiber optic cables.

Other devices included in this project will be two types of cameras: a closed circuit television (CCTV) camera for general traffic surveillance and a camera for vehicle detection (VDS). The traffic surveillance and vehicle detection cameras will be mounted on strain poles typically located off the shoulder of the freeway. However, where appropriate, some cameras may be mounted on existing sign structures or behind guardrail.

Three changeable message signs (CMS) are proposed for this project. All four will be 3' x 21' signs mounted on full span structures. The locations are as follows: 1) northbound, south of SR 138; 2) southbound, south of Camp Creek Parkway; and 3) southbound, north of SR 138. Ramp meters will be installed at the Camp Creek Parkway, Riverdale Road, Flat Shoals Road, SR 138, and SR 74 interchanges on the northbound and southbound on-ramps.

David Studstill

Page 2

P. I. No. 0006332, Fulton-Clayton
September 1, 2005

All network electronics required to operate and communicate with the devices in this project are included as well. This includes electronic equipment to be located in the hubs or in the equipment room at the TMC. Network electronics include devices for multiplexing video and data signals for converting analog signals to digital signals for transmission on fiber and video switches.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public meeting is not required; time saving procedures are appropriate.

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)	\$11,928,000	\$10,700,000	Q05	2006
Right-of-Way & Utilities	-0-	-0-		

Expanding Navigator to this corridor will allow quicker detection and verification of incidents at the TMC, resulting in better information to travelers, quicker response by Highway Emergency Response Operators (HEROs), and improve highway safety. This project is in the STIP. I recommend this project concept be approved.

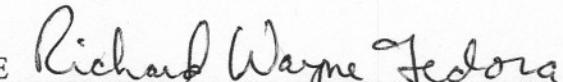
MBP:JDQ/cj

Attachment

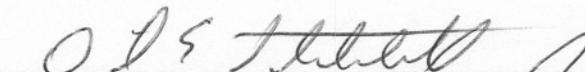
CONCUR


Buddy Gratton, P.E., Director of Preconstruction

APPROVE


for Robert M. Callan, Administrator, FHWA

APPROVE


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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: CSNHS-006-00(332) Fulton/Clayton **OFFICE:** Engineering Services
P.I. No. 0006332
I-85 ATMS

DATE: August 26, 2005

FROM: Brian K. Summers, P.E., Project Review Engineer *REW*

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

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted August 19, 2005 from Keith Golden, and have no comments.

The costs for this project are:

Construction	\$10,843,550
Inflation	\$0.00
E & C	\$1,084,355
Reimbursable Utilities	\$0.00
Right of Way	\$0.00

REW

c: Keith Golden, Attn.: Jim Tolson

NOTICE OF LOCATION AND DESIGN APPROVAL

PROJECT: CSNHS-006-00(332), FULTON COUNTY

P. I. NO. 0006332

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above projects.

Date of Location and Design Approval: FEBRUARY 17, 2006

Project CSNHS-006-00(332) is an expansion of the GDOT NaviGator System on I-85 from the SR 74 interchange to the Camp Creek Parkway interchange in Fulton County. The expansion includes placing electrical communications boxes, pullboxes, conduits, and fiber optic cables along both sides of the freeway outside the clear zone. In addition, the project includes CCTV and VDS cameras mounted on strain poles outside the clear zone on both sides of the freeway. Where appropriate, some cameras may be mounted on existing sign structures or in the median of the roadway. At selected entrance ramps within the project limits, ramp meters (consisting of pole-mounted detection devices, conduit, pullboxes, and traffic signal equipment) will be placed to control the flow of vehicles entering the freeway. This project will install three 3 x 21 full-span CMS mounted on full-span structures located at the following locations:

1. Northbound side, 1.3 miles north of SR 74
2. Southbound side, 1.2 miles south of Flat Shoals Road
3. Southbound side, south of Camp Creek Parkway

Additionally, this project will tie the existing full span CMS located on I-85 northbound, south of Buffington Road and the existing post-mounted CMS on I-85 southbound north of SR 74 into the proposed communications infrastructure.

Drawings of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Mr. Jim Tolson, Traffic Design Manager
935 E. Confederate Avenue
Building 24
Atlanta, GA 30316
(404) 635-8139
email: jim.tolson@dot.state.ga.us

Any interested party may obtain a copy of the drawings or portions thereof by paying a nominal fee and requesting in writing to:

Mr. Jim Tolson, Traffic Design Manager
935 E. Confederate Avenue
Building 24
Atlanta, GA 30316
email: jim.tolson@dot.state.ga.us

Any written request or communication in reference to this project or notice SHOULD include the Project and P.I. Number as noted at the top of this notice.

PROJECT LOCATION MAPS

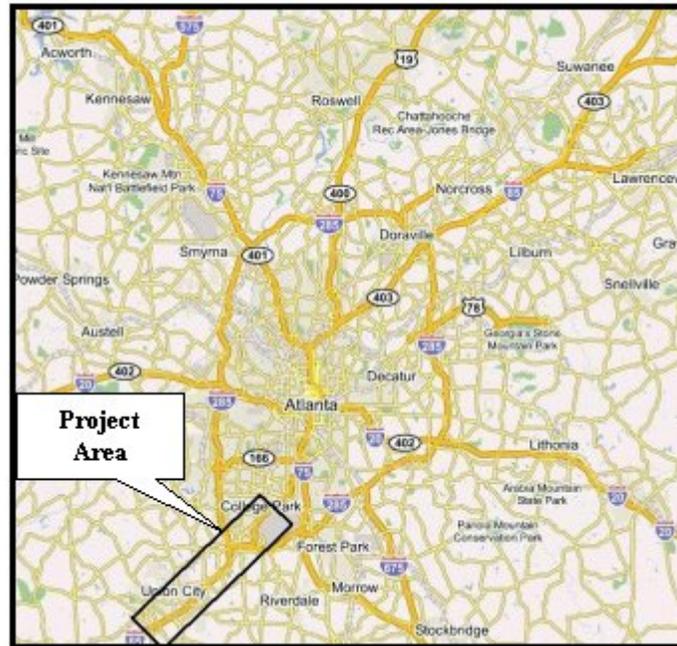


Figure 1: Location of Project in Fulton and Clayton Counties



Figure 2: Detail Map of Project

Need and Purpose:

The purpose of this project is to increase the efficiency and safety of the corridor by expanding the NaviGator system on I-85 from the interchange with Camp Creek Parkway to the interchange with SR74. The expansion of the NaviGator system in this region will help manage congestion currently experienced along the corridor during peak hours. These time savings will be accomplished by reducing incident response/clearance times, preventing secondary accidents, and providing information to motorists of roadway/traffic conditions.

The Georgia DOT's NaviGator – Intelligent Transportation System has been in operation since April 1996. It is currently being extended with projects on I-20, I-75, I-85, I-285, I-575, I-675, I-985, SR 316, SR 400, and US 78 planned as part of the Fast Forward Program. The system consists of surveillance cameras (CCTV), vehicle detection system (VDS) cameras, radar detection systems, changeable message signs (CMS), and ramp meters. By use of a fiber optic communications backbone, all the devices are tied to the Transportation Management Center (TMC) and various traffic control centers (TCCs) in the Metro Atlanta area. Operators at the TMC are able to detect incidents and dispatch appropriate response teams with minimal delay. The NaviGator program benefits the trucking industry and motorists by reducing incident response/clearance times and by providing better information with consequential safety improvements.

On April 14, 2004 Governor Sonny Perdue introduced the Fast Forward Congestion Relief Program, which includes accelerated growth of the NaviGator system throughout the Metro Atlanta region. The Fast Forward Program provides \$211 million to expand the Navigator and Highway Emergency Response Operator (HERO) coverage with a goal of reducing peak hour delays by 30 percent. This project will assist in faster detection of incidents at the TMC, resulting in quicker response by emergency personnel, better information to travelers, and improved highway safety.

Description of the proposed project:

Coverage

This project will include CCTV and VDS coverage necessary to provide roadway condition information to the NaviGator system. CMSs will be installed to allow NaviGator operators to communicate roadway condition information to drivers. NaviGator equipment will be installed on both directions of I-85, from the interchange with SR 74 to the interchange with Camp Creek Parkway.

Communications Plan

This project will use the Department's standard Ethernet communications architecture. All data and video from the project will be sent over the Department's Ethernet network. All network electronics required to operate and communicate with the devices in this project are included, including connections to Hub K for new field devices and the existing CMSs and a link to Hub J.

This project will extend the fiber optic trunk line along I-85 from the existing Hub K, near the interchange with I-285. The project will connect a fiber optic cable from Hub K to the existing cable that begins at Hub J and terminates at Camp Creek Parkway. The fiber optic trunk line will be located on both the northbound and southbound sides as close to the back of the clear zone as possible. The trunk line may enter the paved shoulder to cross bridges and at other locations where it is not feasible to locate outside the paved shoulder. For instance, the section of I-85 that parallels with I-285 has no available unpaved right-of-way in which to install the trunk line. The trunk will be carried within continuous conduit duct banks (type 3), which will have four 2" cells. Each duct bank will carry single-mode fiber optic cable for devices and hub communications. Crossover links will be installed at Camp Creek Parkway, Riverdale Road, Old National Highway, Flat Shoals Road, SR 138, and SR 74 to provide links between the northbound and southbound fiber optic cables.

The project will use existing conduit duct bank installed during the recent repaving project along I-85 between I-285 and Buffington Road.

CCTV

CCTV cameras will be located to provide continuous coverage of I-85 within the project design area. Typical CCTV spacing will be approximately 2/3 mile with cameras located as needed to provide continuous interchange coverage. The traffic surveillance and vehicle detection cameras will be mounted on strain poles typically located outside the clear zone of the roadway. However, where appropriate, some cameras may be mounted on existing sign structures or in the median of the roadway. The poles or other mounting apparatus for the cameras are included in this project.

VDS

VDS camera locations will be chosen to provide an average spacing of 1/3 mile along the project. The poles or other mounting apparatus for the cameras are included in this project.

CMS

Three 3 x 21 LED CMS mounted on full-span structures are proposed for this project. One will be located on the northbound side, south of SR 138, one will be located southbound south of Camp Creek Parkway, and the third will be on the southbound side, north of SR 138. This project also will tie the existing full-span CMS located on I-85 northbound, south of Buffington Road, and the CMS southbound approaching SR 74 into the proposed communications infrastructure.

Hubs

This project will use existing Hub K, located at the interchange of I-285 and I-85, as the network connection point for the field devices installed on this project.

Ramp Meters

Ramp meters will be installed at the Camp Creek Pkwy., Riverdale Rd, Flat Shoals Road, SR 138, and SR 74 interchanges, on the northbound and southbound on-ramps. Each ramp meter will require detection to monitor the operation of the ramp and a VDS camera to monitor the freeway operation, as well as one CCTV camera for visual coverage for the length of the ramp. All supporting hardware, detection, VDS, CCTV camera, poles, mast arms, lane markings, signal assemblies, controller cabinets, and signage for the installation of ramp meters are included in this project.

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

PDP Classification: Major Minor

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

Functional Classification: Interstate Principal Arterial

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

State Route Number(s): SR 403

Traffic (2004 AADT)

source: http://www.dot.state.ga.us/dot/plan-prog/transportation_data/traffic_counts/index.shtml

I-85 (SR 74 to Senoia Rd).....	86,770
I-85 (Senoia Rd to Jonesboro Rd)	126,840
I-85 (Jonesboro Rd to Flat Shoals Rd).....	126,840
I-85 (Flat Shoals Rd to Clayton Co Line).....	138,930
I-85 (Clayton Co Line to Riverdale Rd)	137,800
I-85 (Riverdale Rd to Camp Creek Pkwy).....	148,790

Existing design features:

- Typical Sections:
 - I-85: 4 lanes in each direction
- Posted speed:
 - I-85 (Begin Project to Fayetteville Rd) 65 mph
 - I-85 (Fayetteville Rd to Riverdale Rd) 55 mph
 - I-85 (Riverdale Rd to Fulton Co Line) 50 mph
 - I-85 (Fulton Co Line to Camp Creek Pkwy) 55 mph
- Minimum Radius: N/A
- Maximum grade: N/A
- Major structures:
 - Bridge at Camp Creek Parkway underpass
 - Bridge at Riverdale Road underpass
 - Bridge at Sullivan Road underpass
 - Bridge at Old National Highway overpass
 - Bridge at Buffington Road overpass
 - Bridge at Morning Creek underpass
 - Bridge at Flat Shoals Road overpass
 - Bridge at SR 138 overpass
 - Bridge at CSX RR underpass
 - Bridge at Fayetteville Road underpass
 - Bridge at Spence Road underpass
 - Bridge at Senoia Road overpass
- Other structures:
 - CMS: One full span CMS located on I-85 northbound, south of Buffington Road.
- Major interchanges or intersections along the project:
 - I-85 at Camp Creek Rd
 - I-85 at Riverdale Rd
 - I-85 at I-285 (East)
 - I-85 at Old National Hwy.
 - I-85 at I-285 (West)
 - I-85 at Flat Shoals Road
 - I-85 at SR 138
 - I-85 at SR 74
- Existing length: Fulton Co. Mile 60.94 to Mile 70.59
 Clayton Co. Mile 70.59 to Mile 71.95
 Fulton Co. Mile 71.59 to Mile 72.21
 Total Project Length: 11.27 miles

Proposed Design Features:

- Typical Sections:
 - *I-85: Existing section to remain*
- Posted speed:
 - *Existing posted speed to remain*
- Minimum Radius: *N/A*
- Maximum grade: *N/A*
- Proposed Maximum grade Mainline: *N/A* Maximum grade allowable: *N/A*
- Proposed Maximum grade Side Street: *N/A* Maximum grade allowable: *N/A*
- Proposed Maximum grade driveway: *N/A*
- Proposed Minimum Radius Mainline: *N/A* Minimum Radius allowable: *N/A*
- Proposed Minimum Radius Side Street: *N/A* Minimum Radius allowable: *N/A*
- Type of Access: *Limited Access*
- Right of way: *Project will be constructed within the existing Limited Access Right of Way. No additional right of way and/or easements will be required.*
 - Number of parcels: *0* Number of displacements: *0*
 - Business: *0*
 - Residences: *0*
 - Mobile homes: *0*
 - Other: *0*
- Structures:
 - CMS (3): *Three 3 x 21 CMS, one located on the northbound side, south of SR 138, one on the southbound side south of Camp Creek Pkwy, and one on the southbound side north of SR 138.*
 - Strain poles for CCTV and VDS
- Major intersections and interchanges:
 - *All major intersections and interchanges to remain the same*
- Traffic control during construction: *Shoulder closures and/or lane closures will be necessary during installation of conduit, fiber optic cables, CMS, and strain poles. Traffic pacing will be required during installation of CMS.*

- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances: *None*
- Environmental Concerns: *None*
- Probable Locations of Underground Storage Tanks (UST): *N/A*
- Probable Locations of Hazardous Waste: *None*
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes , No ,
 - Categorical Exclusion ,
 - Environmental Assessment/Finding of No Significant Impact (FONSI) , or
 - Environmental Impact Statement (EIS) .
- Utility involvements: *Power service will be required for all CMS, CCTV cameras, VDS cameras, and ramp meters.*
- Meets Logical Termini Requirements: *Yes*
- Conforms to TIP/STIP: *Yes*

Project responsibilities:

- Design: *TransCore ITS on Behalf of the Georgia DOT.*
- Right of Way Acquisition: *N/A*
- Relocation of Utilities: *GDOT*
- Letting to contract: *GDOT*
- Supervision of construction: *GDOT*
- Providing material pits: *None Required*
- Providing detours: *None Anticipated*

Coordination

- Pre-Concept Meeting: *6-14-05*
- Initial Concept Meeting date and brief summary: *N/A*
- Concept meeting date and brief summary: *The Concept Meeting was held on July 8, 2005 and 12 people attended. The draft Concept Report was presented, and there was discussion of the proposed 3 x 15 CMS on the I-85/I-285 combined section. It was recommended that the Concept Report be revised to eliminate those signs and to add a 3 x 21 sign south of Camp Creek Rd. if possible. It was also noted*

that the Old National Hwy. on-ramps merge onto the c/d road, so ramp metering will not be included at that interchange. These were the only recommended revisions to the Concept Report.

- P. A. R. meetings, dates and results: *None Required*
- Public involvement: *No public meetings are anticipated.*
- Local government comments: *N/A*
- Other projects in the area: *See attached list*
- Other coordination to date: *None*

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: *3 Months*
- Time to complete preliminary construction plans: *4 Months*
- Time to complete right of way plans: *N/A*
- Time to complete the Section 404 Permit: *N/A*
- Time to complete final construction plans: *4 Months*
- Time to complete to purchase right of way: *N/A*

Other alternates considered:

Alternative #1: No Build

Comments: *Extension of NaviGator for system, current fiscal year FY 05*

To be let together with I-285 ATMS from I-85S to I-75 S, CM-285-1(378), P.I. 713372

Attachments:

1. Cost Estimate including E & C
2. List of other projects in the area (ARC Project Fact Sheets and Projects in Area summarized below)
3. Notice of Location and Design Approval
4. Concept Report Rating Form

COST ESTIMATE

Item Code	Description	Unit	Quantity	Engineer Estimate		
				Unit Price (\$)	Amount (\$)	
150-1000	Traffic Control CSNHS-006-00(332)	Lump	Lump	\$ 150,000.00	\$ 150,000.00	
151-1300	Field Engineer's Office, Type 3	Each	1	\$ 50,000.00	\$ 50,000.00	
615-1200	Directional Bore, 5 IN	Lin Ft	4,400	\$ 45.00	\$ 198,000.00	
631-2463	LED Pixel CMS, Walk in, 3x21, 18 IN, Type B	Each	3	\$ 200,000.00	\$ 600,000.00	
632-0003	Changeable Message Sign, Portable, Type 3	Each	4	\$ 10,000.00	\$ 40,000.00	
639-4004	Strain Pole, Type IV	Each	80	\$ 3,600.00	\$ 288,000.00	
641-1200	Guardrail, TP W	Lin Ft	1,250	\$ 13.00	\$ 16,250.00	
641-5001	Guardrail Anch, TP 1	Each	10	\$ 450.00	\$ 4,500.00	
641-5012	Guardrail Anch, TP 12	Each	10	\$ 1,400.00	\$ 14,000.00	
647-2150	Pullbox, PB-5	Each	102	\$ 1,300.00	\$ 132,600.00	
682-9040	Electrical Communication Box, TP 6	Each	132	\$ 3,250.00	\$ 429,000.00	
682-6222	Conduit, Nonmetl, TP 2, 2 IN	Lin Ft	45,240	\$ 12.00	\$ 542,880.00	
682-6231	Conduit, Nonmetl, TP 3, 2 IN	Lin Ft	3,540	\$ 8.00	\$ 28,320.00	
682-6520	Fiberglass, 2 IN	Lin Ft	1,400	\$ 45.00	\$ 63,000.00	
682-7065	Duct Bank, Type 3	Lin Ft	119,600	\$ 30.00	\$ 3,588,000.00	
935-1113	Outside Plant Fiber Optic Cable, Loose Tube, SM, 24 Fiber	Lin Ft	61,250	\$ 2.00	\$ 122,500.00	
935-1119	Outside Plant Fiber Optic Cable, Loose Tube, SM, 288 Fiber	Lin Ft	122,500	\$ 5.50	\$ 673,750.00	
935-1513	Outside Plant Fiber Optic Cable, Drop, SM, 24 Fiber	Lin Ft	13,500	\$ 3.50	\$ 47,250.00	
935-3103	Fiber Optic Closure, Underground, 24 Fiber	Each	27	\$ 600.00	\$ 16,200.00	
935-3108	Fiber Optic Closure, Underground, 144 Fiber	Each	4	\$ 1,000.00	\$ 4,000.00	
935-3403	Fiber Optic Cable, FDC (Rack Mounted), 24 Fiber	Each	46	\$ 750.00	\$ 34,500.00	
935-3408	Fiber Optic Cable, FDC (Rack Mounted), 144 Fiber	Each	4	\$ 2,000.00	\$ 8,000.00	
935-4010	Fiber Optic Splice, Fusion	Each	2,840	\$ 50.00	\$ 142,000.00	
935-8000	Testing	Lump	Lump	\$ 13,000.00	\$ 13,000.00	
936-1001	CCTV System, Type B	Each	12	\$ 12,000.00	\$ 144,000.00	
936-8000	Testing	Lump	Lump	\$ 5,000.00	\$ 5,000.00	
936-8500	Training	Lump	Lump	\$ 2,000.00	\$ 2,000.00	
937-1000	Video Camera Sensor Assembly	Each	86	\$ 5,100.00	\$ 438,600.00	
937-3010	Video Detection System Processor, Type A	Each	70	\$ 12,000.00	\$ 840,000.00	
937-8000	Testing	Lump	Lump	\$ 12,000.00	\$ 7,500.00	
937-8500	Training	Lump	Lump	\$ 7,500.00	\$ 7,500.00	
939-1190	Video Encoder, Type A	Each	12	\$ 5,000.00	\$ 60,000.00	
939-1195	Video Decoder, Type A	Each	8	\$ 5,000.00	\$ 40,000.00	
939-2022	Serial Data Terminal Server, 48 Port	Each	1	\$ 5,200.00	\$ 5,200.00	
939-2211	Network Switch, Layer 3 GigE, Type A (Four SM 17dB GBICs)	Each	1	\$ 90,000.00	\$ 90,000.00	
939-2221	GBIC Enterprise Routing Switch Module, 8 Port	Each	4	\$ 15,000.00	\$ 60,000.00	
939-2232	GBIC Type B	Each	2	\$ 4,000.00	\$ 8,000.00	
939-2300	Field Switch, Type A	Each	90	\$ 4,000.00	\$ 360,000.00	
939-2301	Field Switch, Type B	Each	37	\$ 7,000.00	\$ 259,000.00	
939-4040	Type D Cabinet	Each	84	\$ 4,000.00	\$ 336,000.00	
939-5020	Electrical Power Service	Each	84	\$ 2,500.00	\$ 210,000.00	
939-8000	Testing	Lump	Lump	\$ 7,500.00	\$ 7,500.00	
939-8500	Training	Lump	Lump	\$ 7,500.00	\$ 7,500.00	
xxx-xxxx	Ramp Meter Equipment	Each	10	\$ 75,000.00	\$ 750,000.00	
Total Estimate					\$ 10,843,550.00	

Total Estimate:	\$ 10,843,550.00
Inflation:	0
10% E & C	\$ 1,084,355.00
Total Project Cost	\$ 11,927,905.00

PROJECTS IN AREA:

- 1. I-85 S HOV Lanes from Riverdale Rd to I-75 (See attached Project Fact Sheet)**
MSL-0003-00(162)
P.I. 0003162
Long Range
- 2. HOV Lanes from I-285 to Riverdale Rd**
MSL-0004-00(285)
P.I. 0004286
Long Range
- 3. HOV Lanes from SR 74 to I-285 (See attached Project Fact Sheet)**
MSL-0003-00(163)
P.I. 0003163
Long Range
- 4. I-285 ATMS from I-85 to I-20 West (See attached Project Fact Sheet)**
SM-285-1(377)
P.I. 713371
- 5. I-285 ATMS from I-85S to I-75 S (See attached Project Fact Sheet)**
CM-285-1(378)
P.I. 713372
- 6. Concrete Rehab I-82 from SR 74 to 2.68 Miles North of Flat Shoals**
NHS-M002-00(407)
P.I. M002407
Under Construction

PROJECT FACT SHEET

PROJECT DEFINITION

Short Title I-85 SOUTH HOV LANES FROM I-75/85 IN CITY OF ATLANTA TO RIVERDALE ROAD IN CLAYTON COUNTY [SPLIT FUNDED - SEE ALSO AR-H-150B]

GDOT Project No. 0003162

Status Programmed

Detailed Description and Justification Addition of 1 HOV lane in both directions for 6 miles from the lower Connector split to Riverdale Road. Dedicated HOV-only ramps will be provided but have not been determined at this time. The HOV lanes will be barrier-separated with median breaks in certain locations to allow for ingress and egress from the HOV lanes as well as emergency vehicle access.

Service Type HOV Lanes

Sponsor GDOT

Jurisdiction Fulton (South)

Completion Date N/A

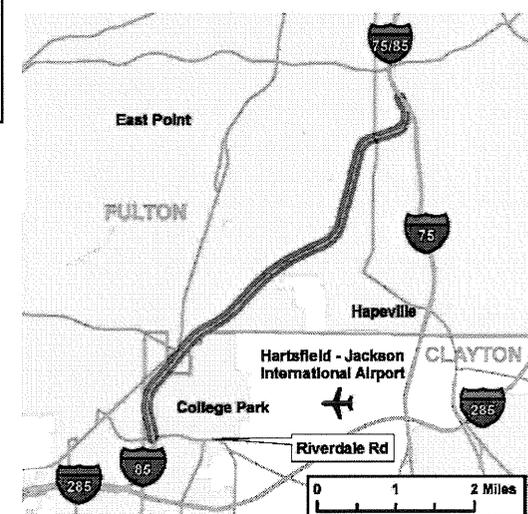
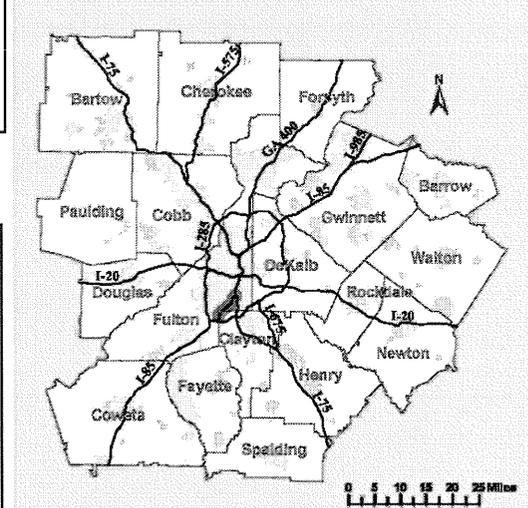
Existing Thru Lane 0 *(applicable for roadway projects only)*

Planned Thru Lane 2/4 *(applicable for roadway projects only)*

Corridor Length 6.3 miles *(not applicable for all project types)*

Network Year 2020 *(required if modeled for conformity)*

Analysis Level In the Region's Air Quality Conformity Analysis



PLANNING AND IMPLEMENTATION DETAILS

Total Funding Commitment \$4,020,000

Funded in Current TIP \$4,020,000 *(see table below for details)*

Primary Funding Source GRV - GARVEE BOND

Phase Status and Funding Information for 05-10 TIP	FISCAL YEAR	TOTAL PHASE COST	BREAKDOWN OF TOTAL PHASE COST BY FUNDING SOURCE			
			FEDERAL	STATE	BOND	LOCAL/OTHER
Preliminary Engineering / Design / Study (Year 1)		\$0	\$0	\$0	\$0	\$0
Preliminary Engineering / Design / Study (Year 2)		\$0	\$0	\$0	\$0	\$0
Preliminary Engineering / Design / Study (Year 3)		\$0	\$0	\$0	\$0	\$0
Right-of-way Acquisition	2009	\$4,020,000	\$0	\$0	\$4,020,000	\$0
Construction / Implementation (Year 1)		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 2)		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 3)		\$0	\$0	\$0	\$0	\$0

All projects listed are contained in the Mobility 2030 Regional Transportation Plan. Some or all may also be included in the FY 2005-2010 Transportation Improvement Program. For additional information about this project, please visit the Atlanta Regional Commission at www.atlantaregional.com or call (404) 463-3100.



PROJECT FACT SHEET

PROJECT DEFINITION

Short Title I-85 SOUTH HOV LANES FROM I-285 SOUTH TO SR 74 (SENOIA ROAD) IN FULTON COUNTY

GDOT Project No. 0003163

Status Programmed

Detailed Description and Justification Addition of 1 HOV lane in both directions for 6 miles from I-285 South to SR 74. Dedicated HOV-only ramps will be provided but have not been determined at this time. The HOV lanes will be barrier-separated with median breaks in certain locations to allow for ingress and egress from the HOV lanes as well as emergency vehicle access.

Service Type HOV Lanes

Sponsor GDOT

Jurisdiction Fulton (South)

Completion Date 2025

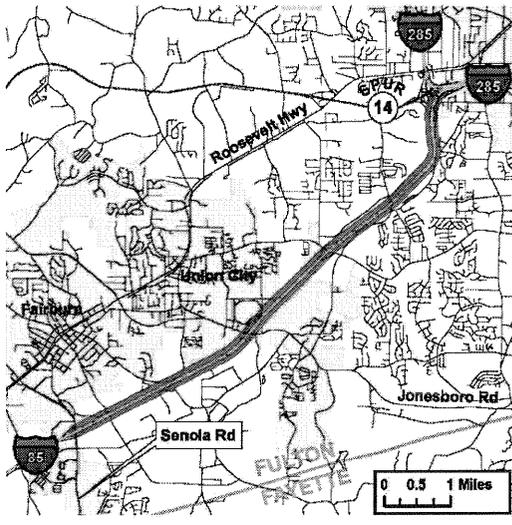
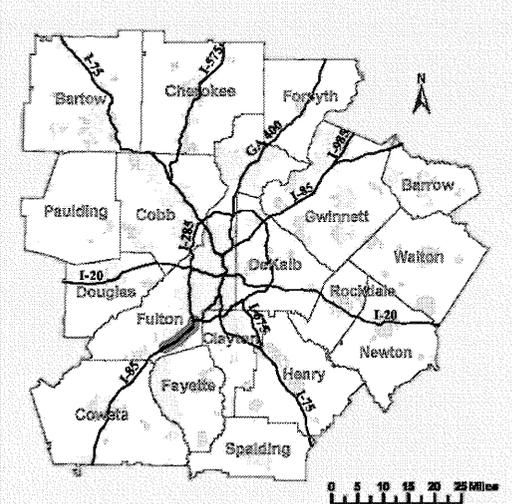
Existing Thru Lane 0 *(applicable for roadway projects only)*

Planned Thru Lane 2/4 *(applicable for roadway projects only)*

Corridor Length 6.4 miles *(not applicable for all project types)*

Network Year 2025 *(required if modeled for conformity)*

Analysis Level In the Region's Air Quality Conformity Analysis



PLANNING AND IMPLEMENTATION DETAILS

Total Funding Commitment \$102,600,000

Funded in Current TIP \$102,600,000 *(see table below for details)*

Primary Funding Source Q05 - National Highway System

Phase Status and Funding Information for 05-10 TIP	FISCAL YEAR	TOTAL PHASE COST	BREAKDOWN OF TOTAL PHASE COST BY FUNDING SOURCE			
			FEDERAL	STATE	BOND	LOCAL/OTHER
Preliminary Engineering / Design / Study (Year 1)	2008	\$5,600,000	\$4,480,000	\$1,120,000	\$0	\$0
Preliminary Engineering / Design / Study (Year 2)		\$0	\$0	\$0	\$0	\$0
Preliminary Engineering / Design / Study (Year 3)		\$0	\$0	\$0	\$0	\$0
Right-of-way Acquisition	LR 2021-2030	\$3,000,000	\$2,400,000	\$600,000	\$0	\$0
Construction / Implementation (Year 1)	LR 2021-2030	\$94,000,000	\$75,200,000	\$18,800,000	\$0	\$0
Construction / Implementation (Year 2)		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 3)		\$0	\$0	\$0	\$0	\$0

? All projects listed are contained in the Mobility 2030 Regional Transportation Plan. Some or all may also be included in the FY 2005-2010 Transportation Improvement Program. For additional information about this project, please visit the Atlanta Regional Commission at www.atlantaregional.com or call (404) 463-3100.



PROJECT FACT SHEET

PROJECT DEFINITION

Short Title I-285 WEST ATMS FROM I-85 SOUTH TO I-20 WEST (CITY OF ATLANTA)

GDOT Project No. 713371

Status Programmed

Detailed Description and Justification The addition of fiber optic cable, surveillance cameras and changeable message signs from I-85 South to I-20 West.

Service Type ITS-Smart Corridor

Sponsor GDOT

Jurisdiction City of Atlanta

Completion Date 2007

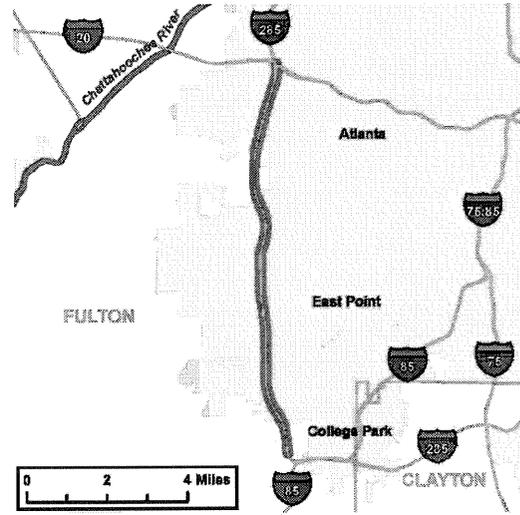
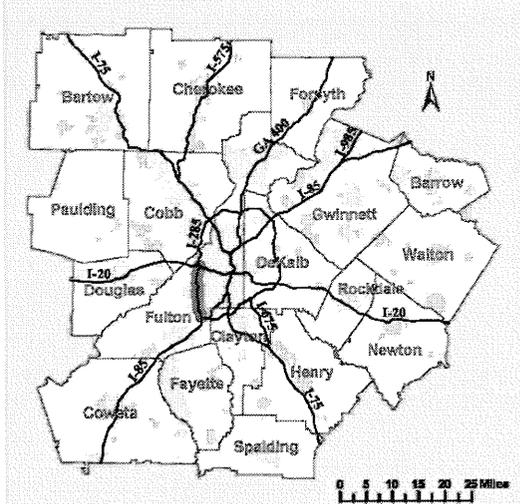
Existing Thru Lane N/A *(applicable for roadway projects only)*

Planned Thru Lane N/A *(applicable for roadway projects only)*

Corridor Length 10.4 miles *(not applicable for all project types)*

Network Year 2010 *(required if modeled for conformity)*

Analysis Level Exempt from Air Quality Analysis (40 CFR 93)



PLANNING AND IMPLEMENTATION DETAILS

Total Funding Commitment \$8,615,600

Funded in Current TIP \$8,615,600 *(see table below for details)*

Primary Funding Source Q05 - National Highway System

Phase Status and Funding Information for 05-10 TIP	FISCAL YEAR	TOTAL PHASE COST	BREAKDOWN OF TOTAL PHASE COST BY FUNDING SOURCE			
			FEDERAL	STATE	BOND	LOCAL/OTHER
Preliminary Engineering / Design / Study (Year 1)	2005	\$150,000	\$120,000	\$30,000	\$0	\$0
Preliminary Engineering / Design / Study (Year 2)		\$0	\$0	\$0	\$0	\$0
Preliminary Engineering / Design / Study (Year 3)		\$0	\$0	\$0	\$0	\$0
Right-of-way Acquisition		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 1)	2006	\$8,465,600	\$6,772,480	\$1,693,120	\$0	\$0
Construction / Implementation (Year 2)		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 3)		\$0	\$0	\$0	\$0	\$0

All projects listed are contained in the Mobility 2030 Regional Transportation Plan. Some or all may also be included in the FY 2005-2010 Transportation Improvement Program. For additional information about this project, please visit the Atlanta Regional Commission at www.atlantaregional.com or call (404) 463-3100.



PROJECT FACT SHEET

PROJECT DEFINITION

Short Title I-285 SOUTH ITS - COMMUNICATIONS AND SURVEILLANCE FROM I-85 SOUTH IN FULTON COUNTY TO I-75 SOUTH IN CLAYTON COUNTY

GDOT Project No. 713372

Status Programmed

Detailed Description and Justification The addition of fiber optic cable, surveillance cameras and changeable message signs from I-85 South to I-75 South.

Service Type ITS-Smart Corridor

Sponsor GDOT

Jurisdiction Multi-County

Completion Date 2007

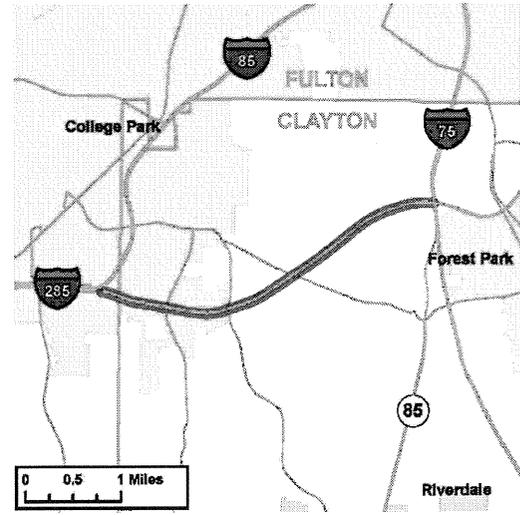
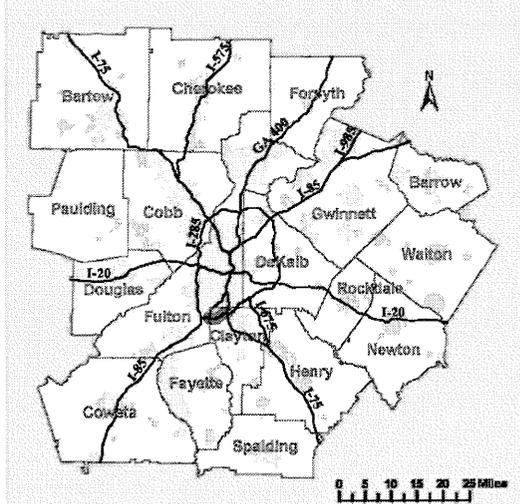
Existing Thru Lane N/A *(applicable for roadway projects only)*

Planned Thru Lane N/A *(applicable for roadway projects only)*

Corridor Length 4.1 miles *(not applicable for all project types)*

Network Year 2010 *(required if modeled for conformity)*

Analysis Level Exempt from Air Quality Analysis (40 CFR 93)



PLANNING AND IMPLEMENTATION DETAILS

Total Funding Commitment \$4,352,000

Funded in Current TIP \$4,352,000 *(see table below for details)*

Primary Funding Source Q05 - National Highway System

Phase Status and Funding Information for 05-10 TIP	FISCAL YEAR	TOTAL PHASE COST	BREAKDOWN OF TOTAL PHASE COST BY FUNDING SOURCE			
			FEDERAL	STATE	BOND	LOCAL/OTHER
Preliminary Engineering / Design / Study (Year 1)	2005	\$150,000	\$120,000	\$30,000	\$0	\$0
Preliminary Engineering / Design / Study (Year 2)		\$0	\$0	\$0	\$0	\$0
Preliminary Engineering / Design / Study (Year 3)		\$0	\$0	\$0	\$0	\$0
Right-of-way Acquisition		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 1)	2006	\$4,202,000	\$3,361,600	\$840,400	\$0	\$0
Construction / Implementation (Year 2)		\$0	\$0	\$0	\$0	\$0
Construction / Implementation (Year 3)		\$0	\$0	\$0	\$0	\$0

All projects listed are contained in the Mobility 2030 Regional Transportation Plan. Some or all may also be included in the FY 2005-2010 Transportation Improvement Program. For additional information about this project, please visit the Atlanta Regional Commission at www.atlantaregional.com or call (404) 463-3100.



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

CSNHS-006-00(332)
FULTON AND CLAYTON COUNTIES
P.I. NO. 0006332

FEDERAL ROUTE NO: I-85
STATE ROUTE NO: 403

*ATMS/I-85 Communication/Surveillance from S.R. 74 to
Camp Creek Parkway in Fulton and Clayton Counties*

Recommendation for approval:

DATE 8-9-05

Keith Seale
State Traffic Safety & Design Engineer

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

DATE _____

State Traffic Operations Engineer

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environmental / Location Engineer

DATE _____

District Engineer

DATE 8/26/05

Bruce K. Summers
Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

CSNHS-006-00(332)
FULTON AND CLAYTON COUNTIES
P.I. NO. 0006332

FEDERAL ROUTE NO: I-85
STATE ROUTE NO: 403

*ATMS/I-85 Communication/Surveillance from S.R. 74 to
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Recommendation for approval:

DATE 8-9-05



State Traffic Safety & Design Engineer

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

DATE _____

State Traffic Operations Engineer

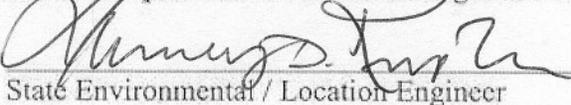
DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE 8.23.05



State Environmental / Location Engineer

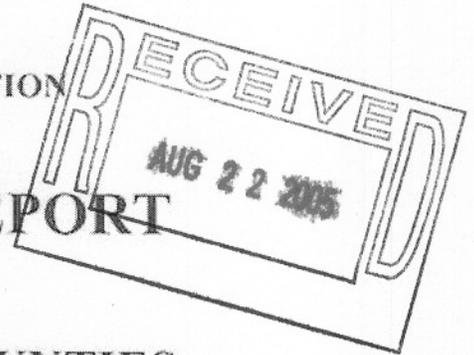
DATE _____

District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



PROJECT CONCEPT REPORT

CSNHS-006-00(332)
FULTON AND CLAYTON COUNTIES
P.I. NO. 0006332

FEDERAL ROUTE NO: I-85
STATE ROUTE NO: 403

*ATMS/I-85 Communication/Surveillance from S.R. 74 to
Camp Creek Parkway in Fulton and Clayton Counties*

Recommendation for approval:

DATE 8-9-05

Keith Bode
State Traffic Safety & Design Engineer

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

DATE ~~8/18/05~~

[Signature]
State Traffic Operations Engineer

DATE 8/18/05

Joseph P. Blaker
State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environmental / Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

CSNHS-006-00(332)
FULTON AND CLAYTON COUNTIES
P.I. NO. 0006332

FEDERAL ROUTE NO: I-85
STATE ROUTE NO: 403

*ATMS/I-85 Communication/Surveillance from S.R. 74 to
Camp Creek Parkway in Fulton and Clayton Counties*

Recommendation for approval:

DATE 8-9-05



State Traffic Safety & Design Engineer

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

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Project Review Engineer