

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NHS-0000-00(372) **OFFICE** Preconstruction
Catoosa-Monroe-Haralson-Columbia-Harris-Franklin Counties
P. I. No. 0000372 **DATE** February 13, 2001

FROM *CWH*
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

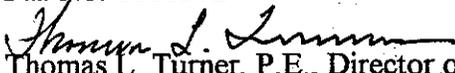
Attachment

DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Larry Dent
Mike Thomas
Glenn Durrence
Kent Sager

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA****INTERDEPARTMENT CORRESPONDENCE**

FILE NHS-0000-00(372) **OFFICE** Preconstruction
Catoosa, Monroe, Haralson, Columbia, Harris, Franklin Counties
P.I. No. 0000372 **DATE** December 18, 2000

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

TO J. Tom Coleman, Jr., Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the installation of changeable message signs (CMS) and closed circuit television (CCTV) systems along I-75, I-85, and I-20 to warn and advise motorists approaching Atlanta of travel conditions within GDOT monitored areas. As traffic becomes congested or as incidents occur within the Atlanta area, it is important to provide advance warning of traffic conditions to motorists approaching the area. By doing so, motorists can be aware and cautious, which ultimately contributes to the safety of motorists. This advance warning will allow motorists the opportunity to take an alternate route or to discontinue their travel plans until the congested areas or incident has been cleared. This information is also important to the trucking industry. The truck driver can choose an alternate route or remain at the weigh station or rest area and not log additional road usage time.

The system will be designed utilizing current CMS and CCTV technologies in place by the GDOT Navigator system. Several of the weigh stations are scheduled for reconstruction in the near future. Design considerations will be evaluated for each planned weigh station reconstruction to coordinate construction projects activity. Because the installed CMSs are approximately two-hours from Atlanta, it is important that messages reflect conditions within the threshold of arriving within the Metro area. Therefore, to reduce false alarms, which will reduce trust in the system, operator will display messages associated with Level III and Level IV incidents. Level III and Level IV incidents are considered major and require longer time periods to clear.

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

J. Tom Coleman, Jr.
Page 2

NHS-0000-00(372)
Catoosa, Monroe, Haralson, Columbia, Harris, Franklin
December 18, 2000

The estimated costs for this project are:

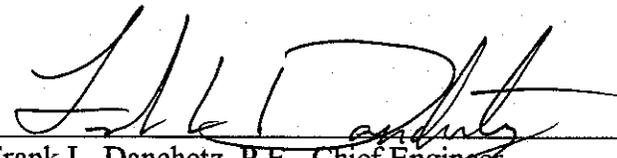
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$2,255,000	1,400,000 \$2,255,000	2001	01-03
Right-of-Way & Utilities	-----	-----	<i>See attached email from Chuck Hasty</i>	

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

TLT:JDQ/cj

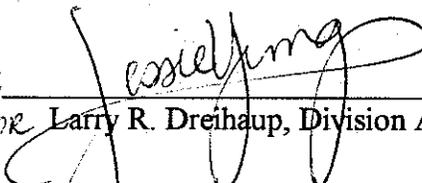
Attachment

CONCUR



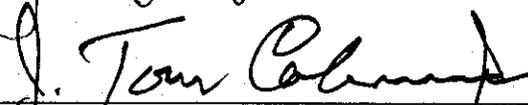
Frank L. Danchetz, P.E., Chief Engineer

APPROVE

 2/1/01

FOR Larry R. Dreihaupt, Division Administrator, FHWA

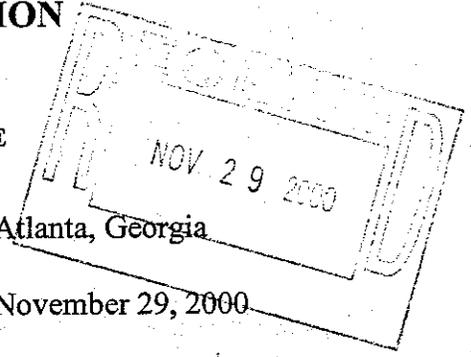
APPROVE



J. Tom Coleman, Jr., Commissioner

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE



FILE: NHS-0000-00(372) Catoosa & others
P.I. Number 0000372-

OFFICE: Atlanta, Georgia

DATE: November 29, 2000

FROM: David Mulling, Project Review Engineer *DM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted November 27, 2000 by the letter from Marion Waters dated November 22, 2000, and have no comments.

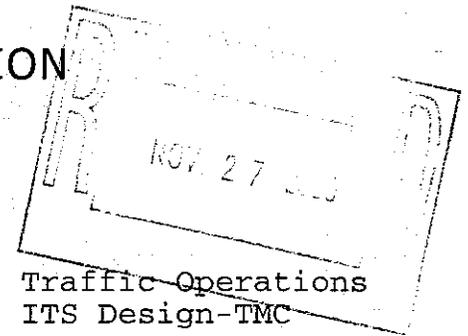
The costs for the project are:

Construction	\$1,952,000
Inflation	\$ 98,000
E&C	\$ 205,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 0

DTM

c: Marion Waters – Attention: Derrick Cameron

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENTAL CORRESPONDENCE

FILE NHS-0000-00(372)
Catoosa, Monroe, Haralson, Columbia,
Harris, and Franklin Counties
P.I. 0000372

OFFICE Traffic Operations
ITS Design-TMC

DATE NOVEMBER 22, 2000

FROM *MGW/DDC*
Marion G Waters III, P.E., State Traffic Operations Engineer

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

Attached is the original concept report for the above project for your handling in accordance with the PDP.

By copy of this letter, and in accordance with the PDP, additional copies are also being sent to the offices as listed below for review, comment, and signature.

Any questions or comments can be directed to Cedric Clark at (404) 635-8133 or Derrick Cameron at (404) 635-8153.

MGW:DDC:CDC
Attachments

Cc: Paul Mullins, Director of Planning and Programming
David Mulling, Project Review Engineer
Harvey Keeper, Environmental /Location Engineer
Paul Liles, State Bridge and Structural Design Engineer
Marta Rosen, State Transportation Planning Administrator
Jim Kennerly, State Road and Airport Design Engineer
Joe Palladi, State Urban Design Engineer
Larry Dent, District 1 Engineer
Michael Thomas, District 2 Engineer
Glenn Durrence, District 3 Engineer
Kent Sager, District 6 Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
PROJECT CONCEPT REPORT SIGN OFF FORM**

**NHS-0000-00(372), Counties of Catoosa, Monroe,
Haralson, Columbia, Harris, Franklin
Changeable Message Signs at Weigh Station Near Atlanta
Federal Route Number: I-75, I-20, I-85
State Route Number: 401, 402, 403
G.D.O.T. P.I. Number: 0000372**

RECOMMENDATION FOR APPROVAL

Nov. 21st 2000 *Marion S. Waters*
Date State Traffic Operations Engineer

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

Date State Road and Airport Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District One Engineer

Date District Two Engineer

Date District Three Engineer

Date District Six Engineer

Date Project Review Engineer

Date State Bridge and Structural Design Engineer

ACCIDENT HISTORY: The following is a summary of the accident data available for the roadway:

	year
Total Accidents:	N/A
Total Injuries:	N/A
Total Fatalities:	N/A
Accident Rate:	N/A
Injury Rate:	N/A
Statewide Average for Urban FAP Section:	(per 100 million vehicle miles of travel:
	year
Accident Rate:	N/A
Injury Rate:	N/A

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: Existing typical section to be maintained.

PROPOSED RIGHT-OF-WAY WIDTH: Project will be built within existing Right of Way.

DESIGN SPEED: N/A

	<u>Allowable</u>	<u>Used</u>
MAXIMUM DEGREE OF CURVATURE:	N/A	N/A
MAXIMUM GRADE:	N/A	N/A

TYPE OF ACCESS: Limited

TRAFFIC CONTROL DURING CONSTRUCTION: Shoulder closures and/or lane closures will be necessary during the installation of camera poles, and CMS structures. Traffic pacing will be necessary during installation of Changeable Message Signs.

PROPOSED STRUCTURES: Overhead sign structures for CMS and strain poles for CCTV.

DESIGN VARIATIONS REQUESTED

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)

SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CURVES:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)

NUMBER OF PARCELS: N/A

DISPLACEMENTS: N/A

ESTIMATED COST

Changeable Message Signs, 6 @ \$200,000	\$1,200,000
CMS Support Structures, 6 @ \$50,000	\$300,000
CCTV Systems, 6 @ \$23,000	\$138,000
Central Site Equipment, 1 @ \$15,000	\$15,000
Concrete Camera Poles, 6 @ \$4,500	\$27,000
Local Power Drops, 12 @ \$750	\$9,000
Telephone Junction Box, 6 @ \$500	\$3,000
Network Electronics (Slow Scan Equipment)	\$50,000
Traffic Control	\$150,000
Guardrail	\$60,000
TOTAL	\$ 1,952,000

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: To Be Determined.

CONFORMS TO TIP/STIP? Yes. However, currently programmed with \$1,650,000. DOT will request additional funds through Office of Programming.

MEETS LOGICAL TERMINI REQUIREMENTS? Yes

P.A.R. MEETING: Not Required.

LEVEL OF ENVIRONMENTAL ANALYSIS: Categorical Exclusion is anticipated.

PUBLIC INVOLVEMENT: N/A

PERMITS REQUIRED: None Anticipated.

TIME SAVING PROCEDURES APPROPRIATE: Yes

SCHEDULING CONSIDERATIONS

TIME TO COMPLETE ENVIRONMENTAL: To be determined.

TIME TO COMPLETE PRELIMINARY RD/RW PLANS: To be determined.

TIME TO COMPLETE 404 PERMIT: N/A

TIME TO COMPLETE FINAL CONSTRUCTION PLANS: To be determined.

TIME TO PURCHASE REQUIRED RIGHT-OF-WAY: N/A

LOCAL GOVERNMENT COMMITMENTS: None

OTHER PROJECTS IN AREA: Weigh Station Reconstruction

1. Franklin County (I-85 NB and SB Weigh Stations) – LET 03/2001
2. Catoosa County (I-75 SB Weigh Station) – LET 03/2002
3. Columbia County (I-20 EB and WB Weigh Stations) – LET 03/2001

PROBABLE LOCATIONS OF USTs: N/A

PROBABLE LOCATION OF HAZARDOUS WASTE: None anticipated.

OTHER ALTERNATIVES CONSIDERED: No Build.

COMMENTS: Installation of CMS and CCTV to warn, validate and advise motorists approaching Atlanta of travel conditions within GDOT monitored areas.

ATTACHMENTS: Need and Purpose Statement, Project Location Maps.

NEED AND PURPOSE STATEMENT:

This concept report addresses several Interstate within the State of Georgia that extends from north-south and east-west extremity points. I-75 and I-85 are major north-south freeways and I-20 is a major east-west route. Each of the listed freeways carries a considerably high average daily traffic volume. With the high amount of traffic traveling along these interstate, it would benefit motorists to be notified of congestion and incidents prior to arriving in the Atlanta Metropolitan Area.

As traffic becomes congested or as incidents occur within the Atlanta area, it is important to provide advance warning of traffic conditions to motorists approaching the area. By doing so, motorists can be aware and cautious, which ultimately contributes to the safety of motorists. This advance warning will allow motorists the opportunity to take an alternate route or to discontinue their travel plans until the congested areas or incident has been cleared. This information is also important to the trucking industry. The truck drivers can choose an alternate route or remain at the weigh station or rest area and not log additional road usage time.

The purpose of this project is to install CMS and CCTV systems along the above mentioned interstate freeways to warn and advise motorists approaching Atlanta of travel conditions within GDOT monitored areas. The systems will be designed utilizing current CMS and CCTV technologies in place by the GDOT NaviGator System. Several of the subject weigh stations are scheduled for reconstruction in the near future. Design considerations will be evaluated for each planned weigh station reconstruction to coordinate construction projects activity.

CMS and CCTV systems and the necessary hardware and software are proposed for installation at or near locations shown on Exhibits 1-6. GDOT personnel will operate all systems from the TMC facility. The CMS systems will be used to issue appropriate messages to the motorists approaching the area about traffic conditions monitored by GDOT NaviGator system. During time periods when traffic conditions isn't impeded by incidents, the CMSs will be used to inform motorists of the approximate travel time through Atlanta within the NaviGator covered areas. The CCTV system will be used to validate messages on the CMS. Because the installed CMSs are approximately two-hours from Atlanta, it is important that messages reflect conditions within the threshold of arriving within the metro area. Therefore, to reduce false alarms, which will reduce trust in the system, operator should display messages associated with Level III and Level IV incidents. Level III and Level IV incidents are considered major and require longer time periods to clear.

Date District Six Engineer

Date Project Review Engineer

Nov. 28, 2000 Paul V. Hillis Jr

Date State Bridge and Structural Design Engineer ✓

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
PROJECT CONCEPT REPORT SIGN OFF FORM**

NHS-0000-00(372), Counties of Catoosa, Monroe,
Haralson, Columbia, Harris, Franklin
Changeable Message Signs at Weigh Station Near Atlanta
Federal Route Number: I-75, I-20, I-85
State Route Number: 401, 402, 403
G.D.O.T. P.I. Number: 0000372

RECOMMENDATION FOR APPROVAL

Nov. 21st 2000

Date

Marie S. Waters

State Traffic Operations Engineer

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

Date

State Road and Airport Design Engineer

Date

State Urban Design Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

District One Engineer

11-27-00

Michael L. Romo

Date

District Two Engineer

Date

District Three Engineer

11/21/2000

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
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State Route Number: 401, 402, 403
G.D.O.T. P.I. Number: 0000372**

RECOMMENDATION FOR APPROVAL

Nov. 21st 2000 *Marisa G. Waters*
Date State Traffic Operations Engineer

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

Date State Road and Airport Design Engineer

Date State Urban Design Engineer

12/3/00 *Mark F. Row*
Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District One Engineer

Date District Two Engineer

Date District Three Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
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RECOMMENDATION FOR APPROVAL

Nov. 21st 2000 *Marisa G. Waters*
Date State Traffic Operations Engineer

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

Date State Road and Airport Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

12/5/00 *Larry Parks*
Date District One Engineer

Date District Two Engineer

Date District Three Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
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G.D.O.T. P.I. Number: 0000372

RECOMMENDATION FOR APPROVAL

Nov. 21st 2000 *Marion G. Waters*
Date State Traffic Operations Engineer

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Date State Road and Airport Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District One Engineer

Date District Two Engineer

12/6/00 *John A. Preece*
Date District Three Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
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RECOMMENDATION FOR APPROVAL

Nov. 21st 2000 *Marie G. Waters*
Date State Traffic Operations Engineer

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

Date State Road and Airport Design Engineer

11/20/00 *Joseph P. Alford*
Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District One Engineer

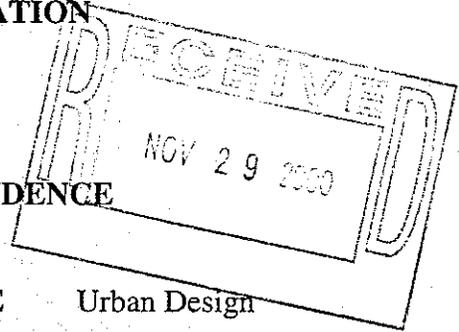
Date District Two Engineer

Date District Three Engineer

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

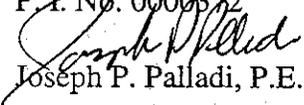
INTERDEPARTMENT CORRESPONDENCE



FILE NHS-0000-00(372) Catoosa, Monroe, Haralson, Columbia, Harris, and Franklin Counties
ATMS: Variable Message Signs at Weigh Stations near Atlanta
P. I. No. 0000372

OFFICE Urban Design

DATE November 28, 2000

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

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

Subject: Project Concept Report

Enclosed is a signed cover sheet of the Concept Report for this project. The project, if approved, will provide additional changeable message signs and CCTV in various areas approaching the Atlanta area.

The concept report appears satisfactory with the exception of the project cost estimate. It appears that the cost estimated for guardrail will not provide enough quantities to adequately shield the number of signs and poles being installed. No quantities were provided in the estimate. If signs are anticipated being placed at locations where guardrail currently exists, those sites should be reviewed to determine if upgrading them to current standards is warranted.

If you have any questions or need additional information, please call Ben Buchan at (404) 656 5454.

JPP:JBB 

cc: Marion Waters
Cedric Clark

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
PROJECT CONCEPT REPORT SIGN OFF FORM**

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G.D.O.T. P.I. Number: 0000372

RECOMMENDATION FOR APPROVAL

Nov. 21st 2000

Date

Marion G. Waters

State Traffic Operations Engineer

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

Date State Road and Airport Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District One Engineer

Date District Two Engineer

Date District Three Engineer

Date

District Six Engineer

11/29/00

C. J. Mulvey

Date

Project Review Engineer

Date

State Bridge and Structural Design Engineer

12/14/00

Kent Szymon
District Six Engineer

Date

District Six Engineer

Date

Project Review Engineer

Date

State Bridge and Structural Design Engineer

From: Chuck.Hasty@dot.state.ga.us
To: hubsmtg.gwhub("Percy.Middlebrooks@dot.state.ga.us")
Date: 2/1/01 9:06AM
Subject: NHS-0000-00(372), ALL; P.I. No. 0000372; ATMS: Variable Message Signs at Weigh Stations Near Atlanta

Percy,

A Concept Team Meeting for the above referenced project was held on January 23, 2001. The Construction Cost Estimate for the project listed in the Concept Report is \$1,952,000.00.

The Programmed Construction Estimate listed in the T.I.P. is \$1,650,000.00. The increased construction estimate (+\$302,000.00) is due to advancements in communications technology, and the addition of roadway construction items associated with the installation and operation of Changeable Message Signs.

Please make certain that the Programmed Construction Estimate in the T.I.P. is revised to reflect the cost estimate shown in the Concept Report.

If you have any additional questions or comments, please let me know.

Chuck Hasty
Traffic Design Manager
GDOT-Office of Traffic Operations
(404) 635-8134

CC: Yung, Jessie <FHWA>