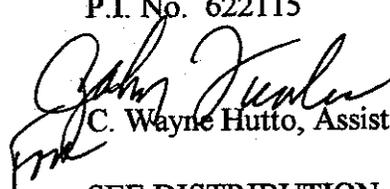


ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-OOTS(42) Whitfield County **OFFICE** Preconstruction
P.I. No. 622115
DATE March 12, 2001
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

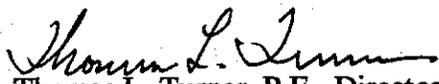
Attachment

DISTRIBUTION:

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

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

FILE NH-OOTS(42) Whitfield County **OFFICE** Preconstruction
P.I. No. 622115 **DATE** January 10, 2001

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

TO J. Tom Coleman, Jr., Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the expansion of Georgia DOT's NaviGator system to provide CCTV coverage of the traffic problem areas in and around the City of Dalton. This will enable the City of Dalton, Whitfield County, and the District DOT staff to observe traffic conditions and provide travelers with traffic congestion information via the Changeable Messages Signs (CMS), which will be located at two strategic points on I-75. These devices will eventually be controlled from the proposed Dalton Traffic Control Center (TCC). The slow-scan CCTV cameras and the CMS will be connected to the monitoring stations by the public telephone network. This reduces initial cost and allows more areas to be monitored.

The full pan-tilt-zoom CCTV cameras will be mounted on poles at the locations shown below:

1. On I-75 from just south of the location of the CMS to just north of the location of the northernmost CMS, including eight cameras spaced evenly.
2. On SR 3 (North Bypass) at Shugart Road.
3. On SR 3 (North Bypass) near Willowdale Road.
4. On SR 3 (North Bypass) at Cleveland Road.
5. On Cleveland Road approximately one mile north of the North Bypass.
6. On SR 3 (North Bypass) at SR 52.
7. On SR 3 (South Bypass) at Lakeland Road.
8. On SR 52 (Walnut Avenue) at Dug Gap Road.
9. On SR 52 (Walnut Avenue) at Airport Road.
10. On SR 52 at S. Hamilton Street.
11. On SR 52 at Abutment Road.

The CMSs will be strategically installed to inform travelers on I-75 of traffic problems in and around the Dalton area. Two changeable message signs are proposed and will be located as follows: one on I-75 facing northbound traffic, one mile south of the exit to SR 3, and one on I-75 facing southbound traffic one mile north of the exit to SR 3.

J. Tom Coleman, Jr.

Page 2

NH-OOTS(42) Whitfield

January 10, 2001

All network electronics required to operate and communicate with the devices in this project are included as well. This concept includes electronic equipment to be located at the city, county, and District DOT monitoring locations. Network electronics include devices for accessing and monitoring the external devices over the telephone system. CCTVs along Walnut Avenue will communicate via fiber optic cable being installed by the City of Dalton.

Environmental concerns include requiring a Categorical Exclusion 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)	\$1,903,000	\$1,815,000 1,650,000	2001	01-04
Right-of-Way & Utilities	----	----		

Expanding NaviGator to this area will permit monitoring of incidents and congestion, resulting in better information to travelers and improved highway safety. This project is in the STIP. I recommend this project concept be approved.

TLT:JDQ/cj

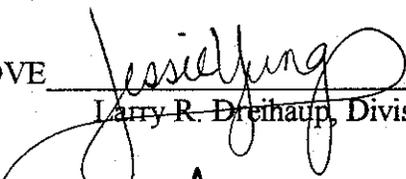
Attachment

CONCUR



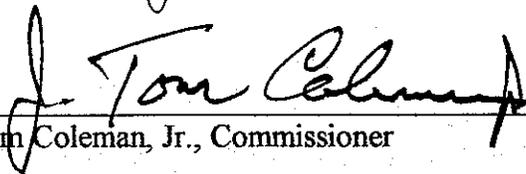
Frank L. Danchetz, P.E., Chief Engineer

APPROVE

 for 2/26/01

Larry R. Dreihaupt, Division Administrator, FHWA

APPROVE



J. Tom Coleman, Jr., Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: NH-00TS(42) Whitfield
P.I. Number 622115-

DATE:

OFFICE: Atlanta, Georgia

JAN 5 2001
January 5, 2001

FROM: David Mulling, Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted January 2, 2001 by the letter from Marion Waters dated December 28, 2000, and have no comments.

The costs for the project are:

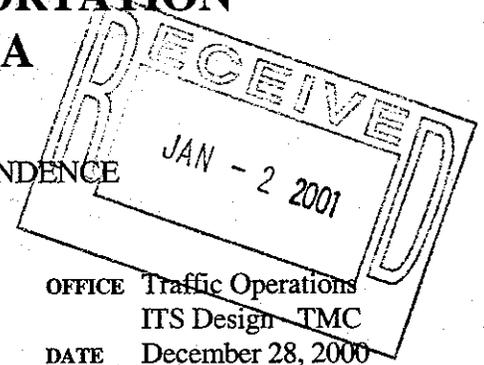
Construction	\$1,650,000
Inflation	\$ 83,000
E&C	\$ 173,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 0

DTM

c: Marion Waters – Attention: Derrick Cameron

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE



FILE NH-00TS(42) Whitfield County
 P.I. No. 622115
 Dalton Slow Scan/Changeable Message Sign/Radar
FROM *for Charles A. Hasty*
 Marion G. Waters, III, P.E., State Traffic Operations Engineer
TO Wayne Hutto, Assistant Director of Preconstruction
SUBJECT Project Concept Report

OFFICE Traffic Operations
 ITS Design TMC
DATE December 28, 2000

Attached is the original concept report for the above project for your handling in accordance with the Plan Developmental Process.

An operations meeting was held at the Dalton Area Engineer's office on November 14, 2000. Representatives from Whitfield County, City of Dalton, Day Wilburn Associates (consultants working on behalf of Traffic Operations), District Six Traffic Operations, District Six Construction, and TMC Design were present at the meeting. At the close of this meeting, all participants were in agreement with the concept and operation of this project. A copy of the November 14th meeting minutes are attached for your use. As a result of this meeting, and to assure that this project will stay on schedule, the Office of Traffic Operations respectfully requests that the project concept team meeting is waived.

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.

Please contact Derrick Cameron at (404) 635-8153, if you have any questions or comments regarding this matter.

MGW:DDC

Attachments

Cc: Jim Kennerly, State Road Design Engineer
 Joe Palladi, State Urban Design Engineer
 Marta Rosen, State Transportation Planning Administrator
 Herman Griffin, State Transportation Programming Engineer
 Harvey Keepler, State Environmental/Location Engineer
 Kent Sager, District Engineer - District Six
 David Mulling, Project Review Engineer
 Paul Liles, State Bridge and Structural Design Engineer
 Harry Maddox, District Six Traffic Operations
 Devon Woodworth, District Six Construction - Area Three
 Larry Dreihaup, FHWA, attn: Jessi Yung
 John Bledsoe, Whitfield County
 Benny Dunn, City of Dalton
 Burt Riddle, Day Wilburn Associates, Inc.

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

NH-00TS (42), Whitfield County
Dalton, Whitfield County Slow Scan/CMS/Radar
Federal Route Number: I-75, US 41, US 76,
State Route Number: SR 3 Conn., SR52 Conn., SR 52,
G.D.O.T. P.I. Number: 622115

RECOMMENDATION FOR APPROVAL

12/28/00

Marion 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 in the STIP.

Date

State Road Design Engineer

Date

State Urban Design Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

District Engineer

Date

Project Review Engineer

Date

State Bridge and Structural Design Engineer

PROJECT CONCEPT REPORT
Revised 12-11-00

PROJECT NO.: NH-00TS (42), Whitfield County

P.I. NO. 622115

PROJECT NAME: Dalton Area Slow Scan/CMS/Radar

PROJECT DESCRIPTION:

The purpose of this project is to expand the NaviGator system to provide CCTV coverage of the traffic problem areas in and around the City of Dalton. This, in turn, will enable the City of Dalton, Whitfield County, and the District DOT staff to observe traffic conditions and provide travelers with traffic congestion information via the Changeable Messages Signs (CMS), which will be located at two strategic points on I-75. These devices will eventually be controlled from the proposed Dalton Traffic Control Center (TCC). The slow-scan CCTV cameras and the CMS will be connected to the monitoring stations by the public telephone network. This reduces initial cost and allows more areas to be monitored.

The full pan-tilt-zoom CCTV cameras will be mounted on poles at the location shown below:

1. On I-75 from just south of the location of the CMS to just north of the location of the northernmost CMS, including eight cameras spaced evenly.
2. On SR 3 (North By-Pass) at Shugart Road.
3. On SR 3 (North By-Pass) near Willowdale Road.
4. On SR 3 (North By-Pass) at Cleveland Road.
5. On Cleveland Road approximately one mile north of the North By-Pass.
6. On SR 3 (North By-Pass) at SR 52
7. On SR 3 (South By-Pass) at Lakeland Road.
8. On SR 52 (Walnut Avenue) at Dug Gap Road.
9. On SR 52 (Walnut Avenue) at Airport Road.
10. On SR 52 at S. Hamilton Street.
11. On SR 52 at Abutment Road.

The CMS's will be strategically installed to inform travelers on I-75 of traffic problems in and around the Dalton area. Two changeable message signs are proposed and will be located as follows: one on I-75 facing northbound traffic, one mile south of the exit to SR 3, and one on I-75 facing southbound traffic one mile north of the exit to SR 3.

All network electronics required to operate and communicate with the devices in this project are included as well. This concept includes electronic equipment to be located at the City, County, and District DOT monitoring locations. Network electronics include devices for accessing and monitoring the external devices over the telephone system. CCTV's along Walnut Avenue will communicate via fiber optic cable being installed by the City of Dalton.

PROJECT LENGTH: N/A

TRAFFIC: (two-way ADT) varies

PDP CLASSIFICATION: Minor Project

OVERSIGHT: Full oversight (X) EXEMPT () S.F. ()

FUNCTIONAL CLASSIFICATION: Principal Arterial

EXISTING CONDITIONS

TYPICAL SECTION: Varies

POSTED SPEED LIMIT: Varies

MAXIMUM DEGREE OF CURVATURE: N/A

MAXIMUM GRADE: N/A

EXISTING MAJOR STRUCTURES: None.

ACCIDENT HISTORY: N/A

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: Existing typical section to be maintained.

PROPOSED RIGHT-OF-WAY WIDTH: No right-of-way is required. Project will be built within existing right-of-way.

DESIGN SPEED: N/A; however, adequate clear zone or appropriate protection will be provided between travel lanes and proposed structures for 70 MPH design speed on I-75.

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

TYPE OF ACCESS: Limited access on I-75. Controlled access on other routes.

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

PROPOSED STRUCTURES: Type I sign structures will be required for CMS, and poles will be required for CCTV cameras.

DESIGN VARIATIONS REQUESTED

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	()	0	(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: None anticipated.

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: None Anticipated

CONFORMS TO RTIP/STIP? Yes

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: Maintenance, power costs, and phone costs for the devices installed.

OTHER PROJECTS IN AREA: See attached list of projects proposed for Whitfield County.

PROBABLE LOCATIONS OF USTs: N/A.

PROBABLE LOCATION OF HAZARDOUS WASTE: None anticipated.

OTHER ALTERNATIVES CONSIDERED: No Build.

COMMENTS: Installation of changeable message signs is to advise motorists of traffic conditions. CCTV cameras are for monitoring areas of recurrent congestion.

ATTACHMENTS: Statement of Need, Preliminary Cost Estimate, and Project Location Sketches.

STATEMENT OF NEED

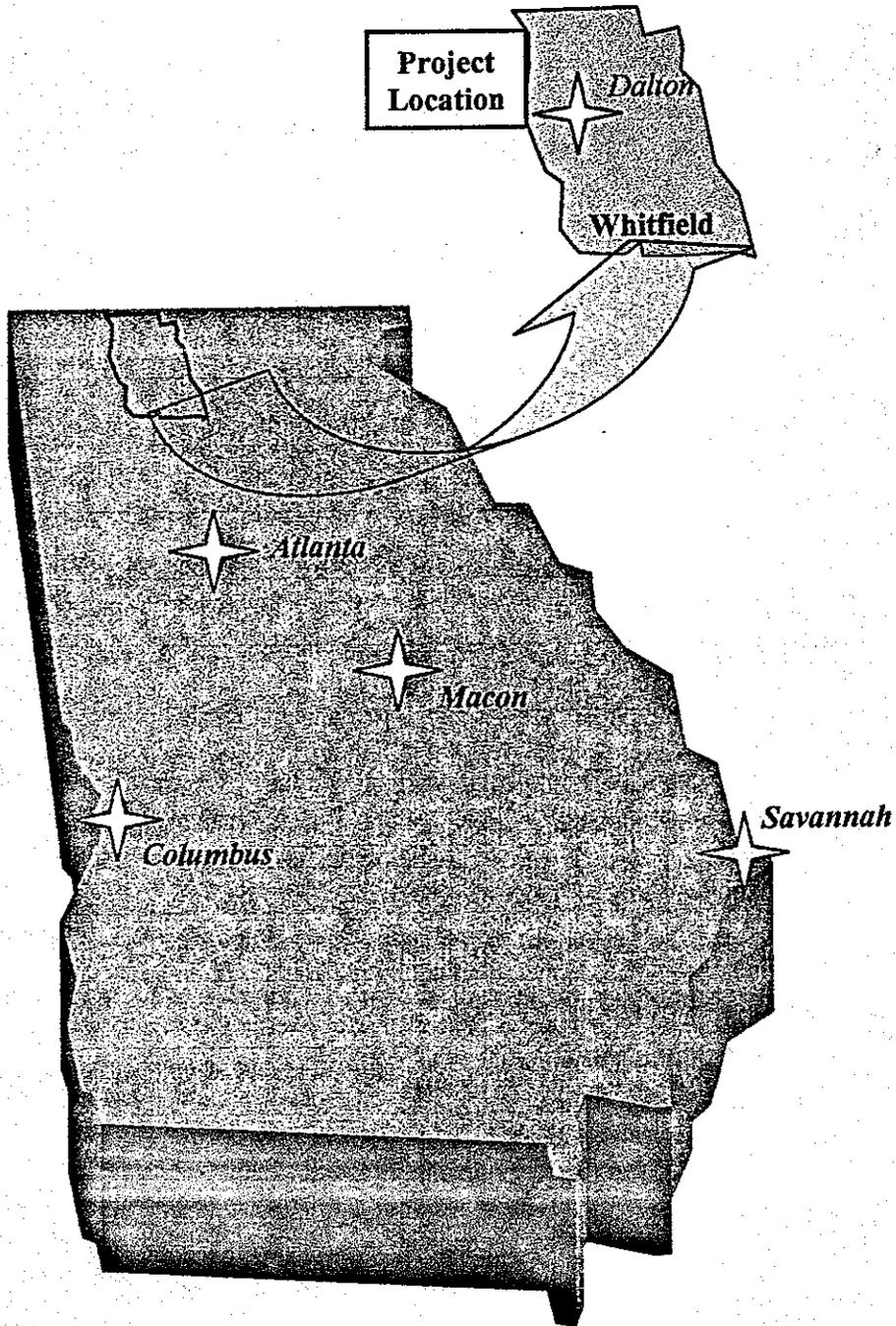
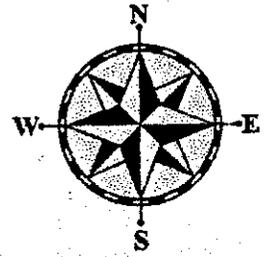
The Georgia DOT's NaviGator system commenced operation in April 1996 with initial coverage in the Atlanta metropolitan area and, more recently, with a project for Macon. The system consists of surveillance devices (CCTV), vehicle detection system cameras, changeable message signs (CMS), and ramp meters. All the devices are tied to the transportation control center (TCC) by a fiber optic communications backbone or over the dial-up telephone network. In essence, the system permits operators located at a TCC to detect incidents and dispatch, with minimal delay, appropriate response teams. Since the inception of the NaviGator system, it is estimated that the benefits brought about by reduced incident response/clearance and better information has produced annual savings of \$50 million for the trucking industry and motorists. Additionally there has been safety improvements brought about by advanced warning provided by the CMS, ramp meters, and improved incident management.

The Georgia DOT has a twenty-year plan for the deployment of the Georgia NaviGator system on a statewide basis. The earliest installations and expansions were in the Savannah, Athens, and the Metropolitan Atlanta Area. Recently a project on I-475 in the Macon area has commenced to install ITS components. This project in the Dalton area addresses the provision of slow scan Closed Circuit Television Cameras and Changeable Message signs. These ITS components will be used to provide surveillance of the project area and communicate potential problems to motorist in an effort to reduce recurrent congestion. The devices will communicate through a dial-up network via the public telephone system that will link the operations center, the City of Dalton, Whitfield County, District Six and eventually the Regional Transportation Control Center (a separate project). This equipment will permit monitoring of incidents and congestion, resulting in better information to travelers and improved highway safety.

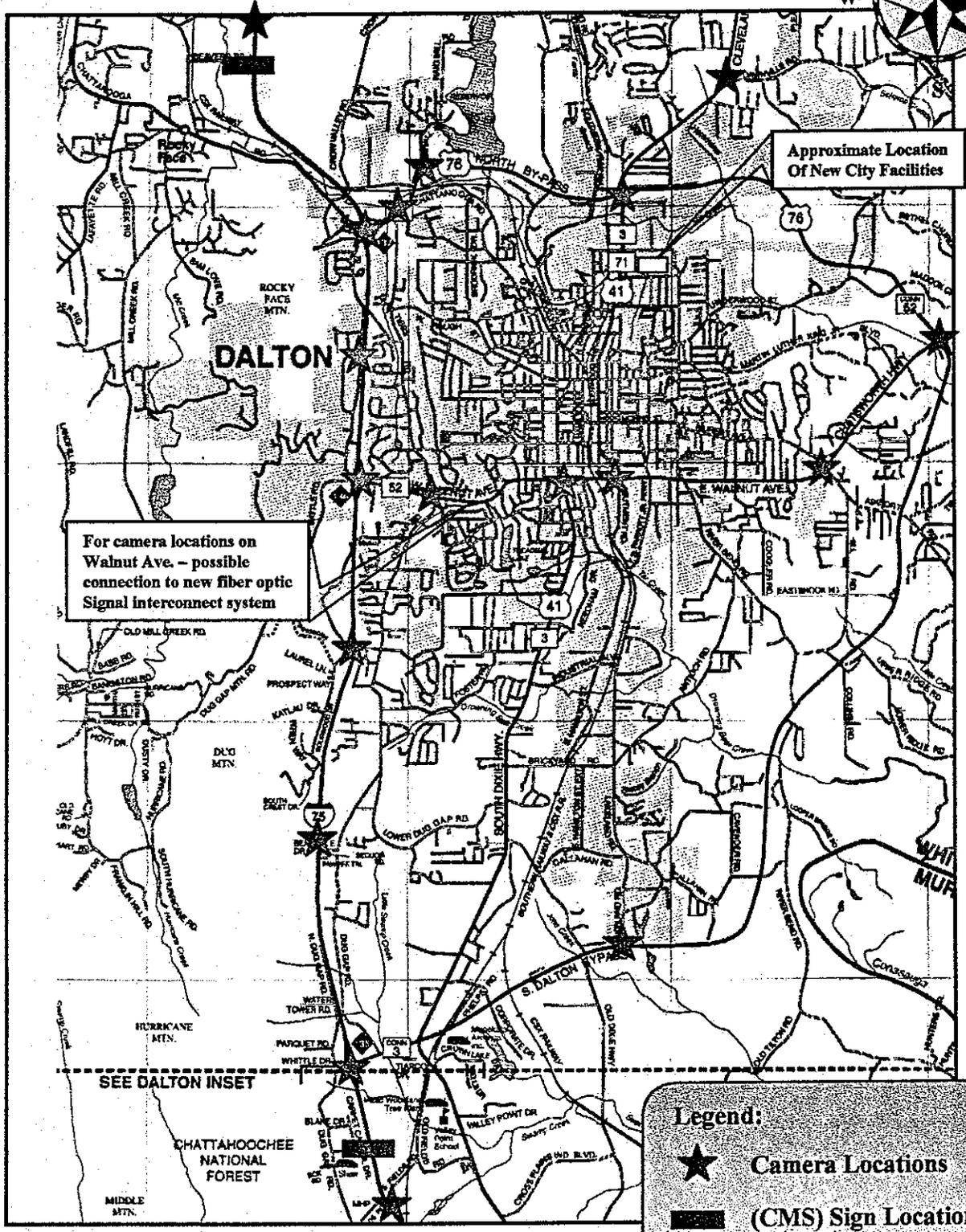
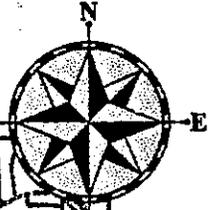
PRELIMINARY COST ESTIMATE

MAJOR PROJECT ITEMS	Quantity	Units	Unit Cost	Extended Cost
CCTV camera installations	18	Each	\$25,000	\$450,000
Camera poles	18	Each	\$5,000	\$90,000
Changeable message sign installations	2	Each	\$250,000	\$500,000
Type I sign structures	2	Each	\$50,000	\$100,000
Power service drops-cameras (SR)	10	Each	\$2,000	\$20,000
Telephone service drops-cameras (SR)	10	Each	\$2,000	\$20,000
Telephone/power service drops-cameras (Interstate)	8	Each	\$5,000	\$40,000
Telephone/power service drops-CMS)	2	Each	\$5,000	\$10,000
Network electronics	1	Lump	\$185,000	\$185,000
System integration including fiber allocation	1	Lump	\$85,000	\$85,000
System monitoring at three locations	3	Lump	\$30,000	\$90,000
Traffic control	1	Lump	\$10,000	\$10,000
Training	1	Lump	\$50,000	\$50,000
Totals				\$1,650,000

DEPARTMENT of TRANSPORTATION
Dalton, Whitfield County Slow Scan / CMS / Radar
PROJECT LOCATION



DEPARTMENT of TRANSPORTATION
Dalton, Whitfield County Slow Scan / CMS / Radar
DEVICE LOCATION MAP



Legend:

-  Camera Locations
-  (CMS) Sign Locations

DALTON ITS PROJECT**OPERATIONS STRATEGIES MEETING MINUTES**

SUBJECT: Meeting with GDOT, City of Dalton, Whitfield County, and DWA for operations strategies and recommended locations of ITS devices.

Meeting Date: November 14, 2000

Today's Date: November 15, 2000

Prepared By: Burt Riddle

Attendees: Benny Dunn, City of Dalton
Gerald Stafford, City of Dalton
John Paul Bledsoe, Whitfield County
Harry Maddox, GDOT District Six Traffic Operations
Devon Woodruff, GDOT Dalton Area Engineer
Derrick Cameron, GDOT Transportation Management Center
Jim Ingram, Day Wilburn Associates, Inc.
Burt Riddle, Day Wilburn Associates, Inc.

Location: Dalton Area Engineer's Office

PURPOSE OF MEETING

The meeting was held to obtain input from District Six GDOT, the Dalton Area Engineer's Office, the City of Dalton, and Whitfield County for the installation of ITS devices in the Dalton and Whitfield County area. These devices will monitor traffic conditions at isolated locations and be able to advise motorists via changeable message signs.

CONCEPT OF PROJECT

The purpose and scope of the project was explained. GDOT has programmed \$1,650,000 for the installation of CCTV cameras, changeable message signs, and radar detectors in the Dalton area. Day Wilburn Associates, Inc. (DWA), as a subcontractor to Transcore, will design the plans for letting. Input from District and local GDOT, the City, and the County was requested.

ITEMS OF DISCUSSIONS

1. DWA personnel had already preliminarily located cameras and changeable message signs. Everyone agreed that these locations were at the worst traffic congestion. The City and County nominated additional locations where they thought cameras would be necessary to monitor traffic backups. All of the locations are listed below and on the device location map attached.
2. It was decided that it was logical to place two (2) changeable message signs on I-75. These signs should be placed approximately one mile in advance of the SR 3 interchanges both on the Northside and Southside of Dalton on I-75. This would allow motorists to use the Dalton By-Pass as an alternate route when there is an incident or congestion on I-75 through Dalton. It was discussed that an additional sign southbound in advance of the Carbondale Road interchange be added. It was then decided that this sign

should be included in the Carbondale Road interchange reconstruction project that is scheduled for letting in 2003. It was the consensus of everyone present that changeable message signs were not needed off of the interstate.

3. The City is installing fiber optic cable (Hank Blanchard w/Dalton Utilities at 278-1313) throughout the City and in parts of the County. There should be some spare fibers that could be used for signal and camera communication back to the City offices. As the fiber is not installed yet, this project will still use phone drops. The exception would be the signal system presently being installed on Walnut Avenue. Fiber is being used and should be in place when this project is constructed. This fiber should be connected back to City facilities.
4. Power/phone/maintenance and operation costs will be the responsibility of the City or County.
5. An item for training needs to be added to the contract, both for operation and maintenance of the equipment.
6. GDOT has plans to reconstruct the interchanges at Carbondale Road and Rocky Face Road; this project should locate any cameras and changeable message signs out of the way of the interchange reconstruction if at all possible.
7. Without the electronic equipment being part of this contract to analyze detector data, it was decided to not install radar detection with this contract.
8. At the present time the City of Dalton will be the primary operator of the devices installed under this contract, with secondary monitoring at the County and District Offices. When a regional or local control center is built, these responsibilities should be reevaluated.

DEVICE LOCATIONS

There will be eighteen (18) cameras locations, with eight (8) on the interstate, and two (2) changeable message signs, both located on the interstate. These are shown on the attached device location map.

PROPOSED PROJECT SCHEDULE

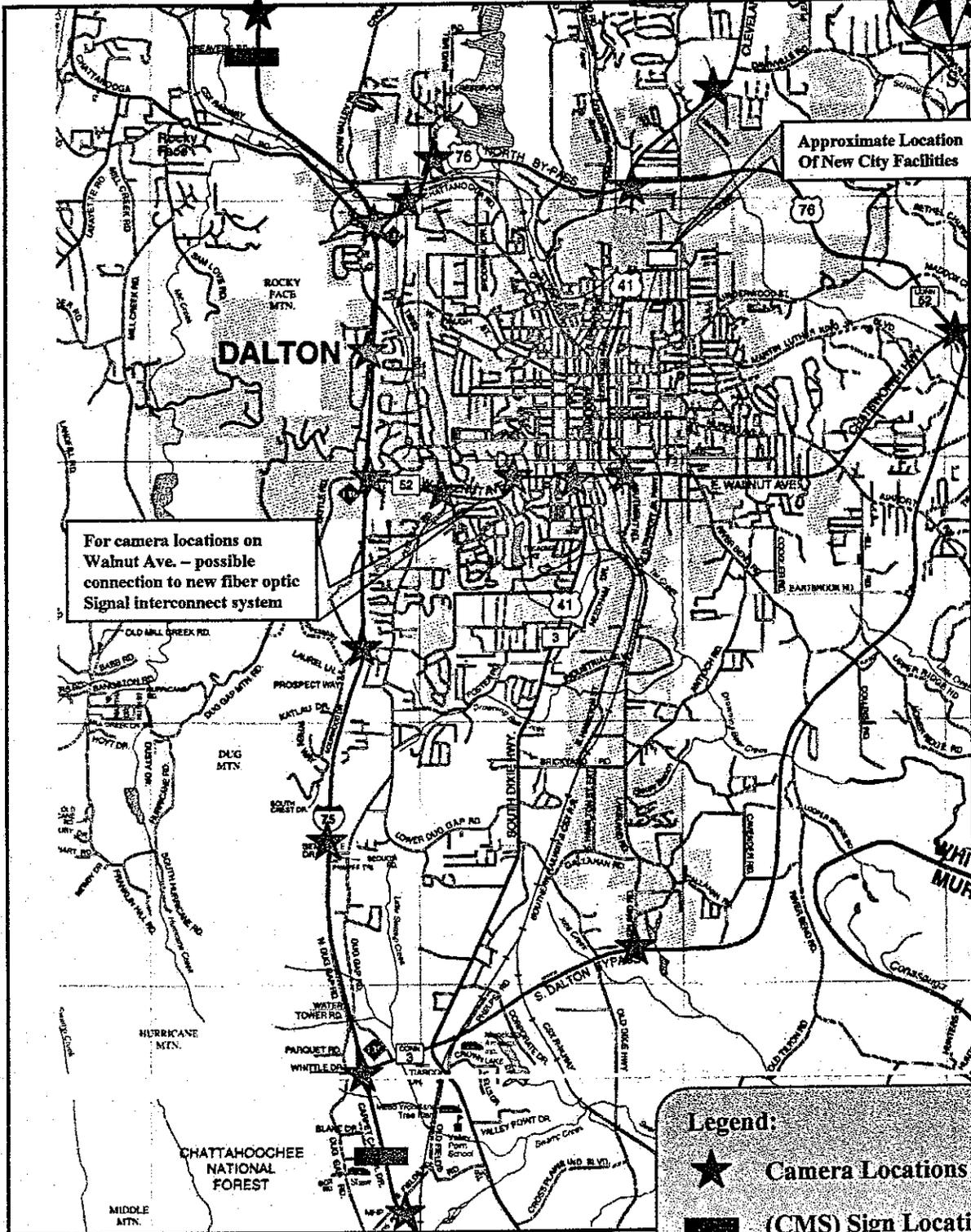
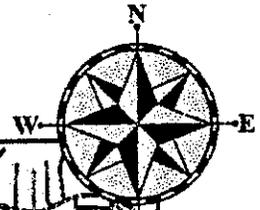
A proposed schedule for an April letting is attached. If the let date is moved, this schedule will be revised.

NH-OOTS (42) WHITFIELD COUNTY

April Letting (Shaded area dates are set by GDOT)

EVENT	November	December	January	February	March	April	May	June
Kick-off Meeting	11/07/2000							
Data collections	11/08/2000							
Meeting w/Dist/City/County	11/14/2000							
Concept Meeting	11-??-2000							
Preliminary Plans		12/15/2000						
Final Field Plan Review Held			12/29/2000					
Sixteen weeks				02/16/2001 "" ""				
Completed Final Plans								
Special Provisions								
Designer Cost Estimate								
Nine weeks								
R/W Certification					03/09/2001 "" "" ""			
Utility Agreement								
404 Permit								
Work Authorization								
Nine weeks								
Receive FHWA Authorization					03/16/2001			
Five weeks								
Original plans to reproduction								
Five weeks								
Advertisement								
Four weeks								
Letting date					03/23/2001			

DEPARTMENT of TRANSPORTATION
Dalton, Whitfield County Slow Scan / CMS / Radar
DEVICE LOCATION MAP



Approximate Location
Of New City Facilities

For camera locations on
Walnut Ave. - possible
connection to new fiber optic
Signal interconnect system

Legend:

- ★ Camera Locations
- (CMS) Sign Locations

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

NH-00TS (42), Whitfield County
Dalton, Whitfield County Slow Scan/CMS/Radar
Federal Route Number: I-75, US 41, US 76,
State Route Number: SR 3 Conn., SR52 Conn., SR 52,
G.D.O.T. P.I. Number: 622115

RECOMMENDATION FOR APPROVAL

12/28/00 *Marion G. Waters, Jr.*
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 in the STIP.

Date State Road Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

1/3/01 *Harman J. Sutt*
Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District Engineer

Date Project Review Engineer

Date State Bridge and Structural Design Engineer

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

NH-00TS (42), Whitfield County
Dalton, Whitfield County Slow Scan/CMS/Radar
Federal Route Number: I-75, US 41, US 76,
State Route Number: SR 3 Conn., SR52 Conn., SR 52,
G.D.O.T. P.I. Number: 622115

RECOMMENDATION FOR APPROVAL

12/28/00

Marion G. Waters, Sr.

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 in the STIP.

Date

State Road Design Engineer

Jan. 9, 2001

Joseph P. Palladi

Date

State Urban Design Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

District Engineer

Date

Project Review Engineer

Date

State Bridge and Structural Design Engineer