

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006818, Fulton County
CSCMQ-0006-00(818)
Windward Parkway ITS Installation

OFFICE Preconstruction

DATE May 4, 2009

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Rachel Brown
Paul Liles
Mike Lobdell
Sharon Evans
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0006818, Fulton County
CSCMQ-0006-00(818)
Windward Parkway ITS Installation

OFFICE: Preconstruction

DATE: April 29, 2009


FROM: Genetha Rice-Singleton, Assistant Director of Preconstruction

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project consist of the installation of fiber optic communications cable and closed circuit television (CCTV) cameras along Windward Parkway from SR 9 to McGinnis Ferry Road for a total of 4.70 miles. Traffic volumes on Windward Parkway have increased to 39,000 VPD. This arterial has become congested and operates below an acceptable level of service (LOS) during peak hours. The purpose of this project is to enable arterial traffic monitoring, signal control and quicker incident response along Windward Parkway. An Intelligent Transportation System (ITS) will allow for improved progression and traffic surveillance as well as the ability to control signal timing to effectively manage traffic backup due to incidents along the roadway. The ITS will allow for a more orderly progression of traffic through the Windward Parkway corridor.

The project proposes to install an underground fiber trunk line along the shoulder of Windward Parkway within the above project limits. All existing traffic signal controllers along the corridor will be spliced onto the fiber optic backbone. Closed circuit television cameras will be installed at specific locations along the corridor for traffic surveillance. These cameras will be mounted on poles located off the shoulder of the roadway at the outside of the clear zone or protected by guardrail. Vehicle detection devices will be mounted on existing signals poles and mast arm assemblies. All CCTV cameras and traffic controllers will be connected by fiber optic cable with Alpharetta TMC and will be integrated into the Georgia DOT Navigator system. Shoulder closures and/or right lane closures will be required for installation of ITS devices and trenching for conduit and fiber optic trunk line.

Environmental concerns include requiring a COE 404 permit; a Programmatic Categorical Exclusion was approved September 9, 2008; a Public Hearing is not required; time saving procedures are appropriate.

P.I. No. 0006818, Fulton County
Page 2
April 29, 2009

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 1,220,000	\$ 1,219,205	L400	2010(proposed)
Right-of-way & utilities	Local	Local		

*PMA signed 12-21-05 Alpharetta to do PE and Utilities; ROW and CST to be done by future agreements.

I recommend this project concept be approved.

GRS: JDQ
Attachment

CONCUR

Nerida Rice - L400 be done

Director of Preconstruction

APPROVED

Gerald M. Ross

Gerald M. Ross, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Traffic Operations

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(818)

County: Fulton

P. I. Number: 0006818

Federal Route Number:

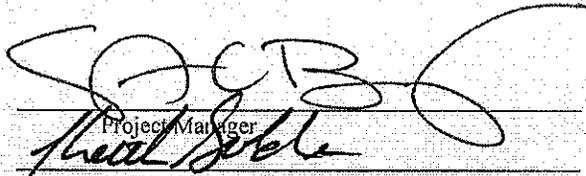
State Route Number:

ATMS/Windward Parkway Traffic Signals Interconnections
City of Alpharetta

Recommendation for approval:

DATE 31 Dec 2008

DATE 1-5-09



Project Manager
Shelley J. Bole

State Traffic 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 1-8-2009



State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environment/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

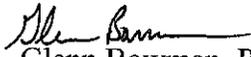
FILE: P.I. No. 0006818

OFFICE: Environment/Location

PROJECT No. CSCMQ-0006-00(818) / FULTON
County

DATE: 1/21/09

ATMS/Windward Parkway Traffic Signals Interconnections/City of Alpharetta

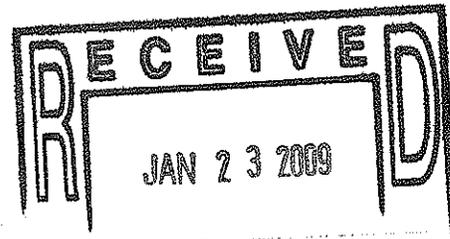
FROM: 
Glenn Bowman, P.E., State Environmental/Location Engineer
TO: Genetha Rice-Singleton, Assistant Director of Preconstruction
SUBJECT: PROJECT CONCEPT REPORT REVIEW

The Concept Report for the above project has been reviewed and appears satisfactory for approval. Please note that the environmental document (a Programmatic Categorical Exclusion) was approved on September 19, 2008 and six months will not be needed to complete the environmental process as noted in the report. Only a few days is anticipated to be needed to process a reevaluation closer to the letting.

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

GB:lc

cc: Ron Wishon
Angela Whitworth
Keith Golden
Angela Alexander



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Traffic Operations

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(818)

County: Fulton

P. I. Number: 0006818

Federal Route Number:

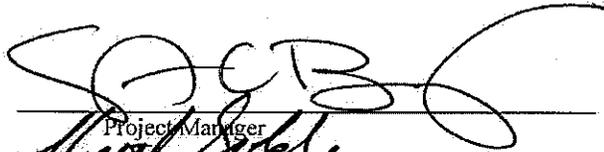
State Route Number:

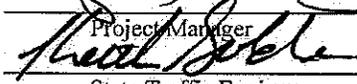
ATMS/Windward Parkway Traffic Signals Interconnections
City of Alpharetta

Recommendation for approval:

DATE 31 Dec 2008

DATE 1-5-09



Project Manager


State Traffic 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 Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE 1/21/09



State Environment/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

Project Concept Report page 10
Project Number: CSCMQ-0006-00(818)
P. I. Number: 0006818
County: Fulton

NOTICE OF LOCATION AND DESIGN APPROVAL

PROJECT: CSCMQ-0006-00(818) FULTON COUNTY
P. I. NO. 0006818

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: May 4, 2009

Project CSCMQ-0006-00(818) will expand the Alpharetta Traffic Management System in Fulton County to provide coverage on Windward Parkway from North Main Street (SR 9) to McGinnis Ferry Road. The project consists of CCTV and VDS coverage necessary to provide traffic signal coordination and travel flow information to the NaviGator system. This project will install the fiber optic trunk line along Windward Parkway from North Main Street (SR 9) to McGinnis Ferry Road.

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

Ms. Cynthia C. Burney, P.E.
Office of Traffic Operations
935 E. Confederate Avenue, Bldg 24
Atlanta, GA 30316
(404) 635-8139
email: cburney@dot.ga.gov

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

Keith Golden, P.E., State Traffic Engineer
Office of Traffic Operations
935 E. Confederate Avenue, Bldg 24
Atlanta, GA 30316
email: kgolden@dot.ga.gov

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.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Traffic Operations

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(818)

County: Fulton

P. I. Number: 0006818

Federal Route Number:

State Route Number:

ATMS/Windward Parkway Traffic Signals Interconnections
City of Alpharetta

Recommendation for approval:

DATE 31 Dec 2008

DATE 1-5-09



Project Manager
Heath Seale

State Traffic 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 Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environment/Location Engineer

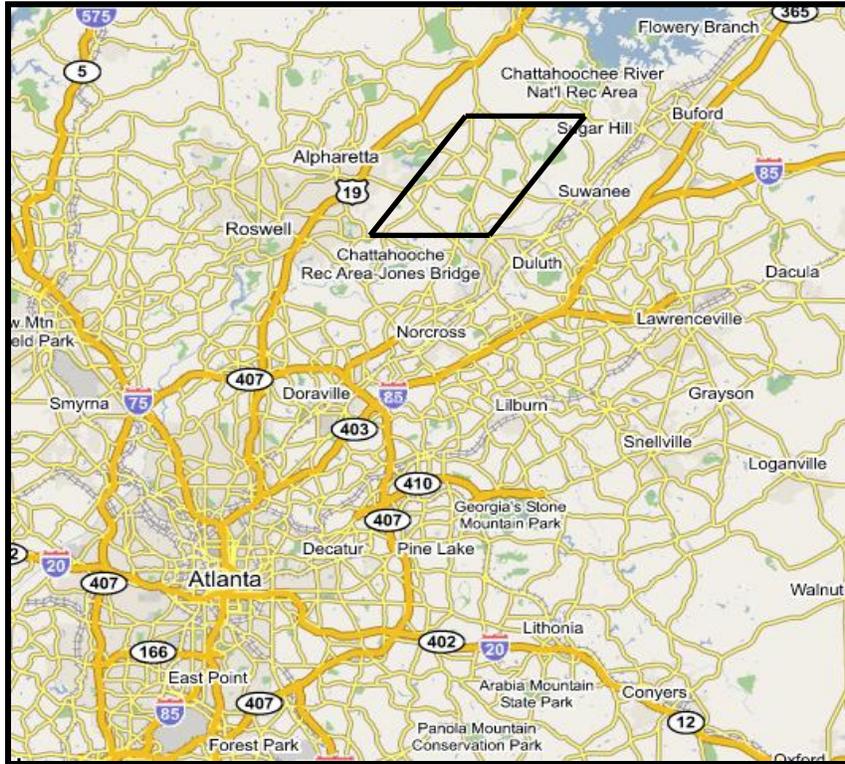
DATE _____

District Engineer

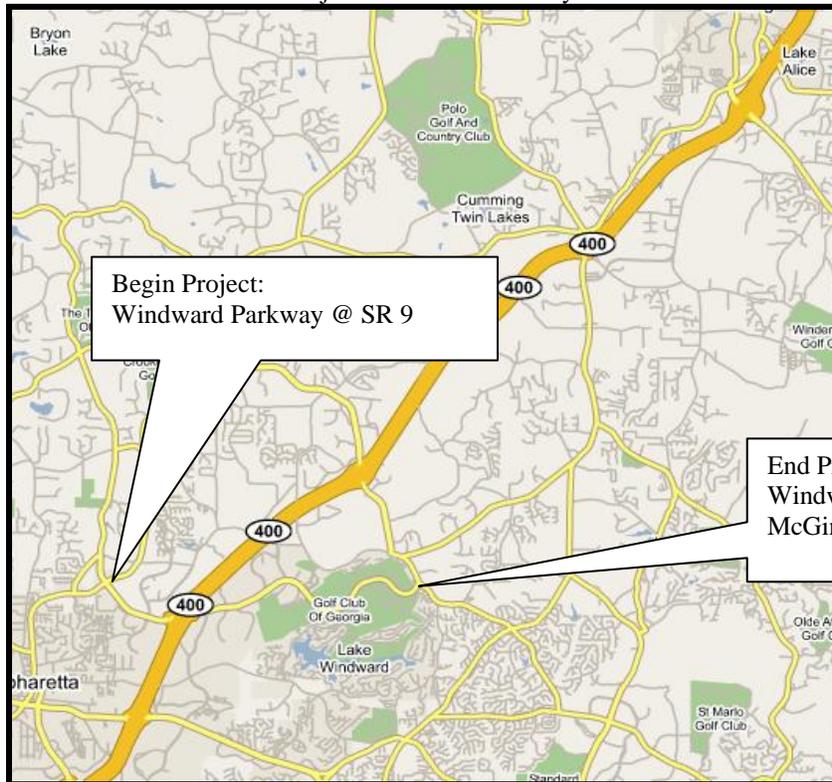
DATE _____

Project Review Engineer

PROJECT LOCATION MAPS



Location of Project in Fulton and Forsyth Counties



Detailed Map of Project Corridor

Need and Purpose:

The purpose of this project is to increase the efficiency, safety and air quality of the corridor by expanding the City of Alpharetta's Traffic Management System (TMS) along Windward. The expansion of the City's TMS in this region will help mitigate the congestion currently experienced along this corridor during peak hours. The system will better enable the City to implement the Signal Timing Maintenance program optimizing signal timing and will allow coordination of adjacent traffic signals to improve traffic flow. Efficiency, safety and air quality will be improved by reducing the number of stops and time spent idling at signalized intersections.

The City of Alpharetta's Traffic Management System – Intelligent Transportation System has been in operation since 2004. Initially providing coverage on Haynes Bridge Road, Mansell Road, and Old Milton Parkway (SR 120), implementation of the system is expanding along Main Street (SR 9), Westside Parkway, and North Point Parkway. The system currently consists of closed-circuit television (CCTV) surveillance cameras and vehicle detection systems. By use of a fiber optic communications backbone, all the devices are tied to the City's Traffic Control Center (TCC) and will eventually connect to the City's 911 Center and the Georgia NaviGator system. Operators located at the TCC are able to monitor traffic flow, implement special signal timings to manage incidents or special events, and coordinate with emergency service personnel. The City's TMS and Signal Timing Maintenance program benefit motorists by reducing corridor travel times, and minimizing the delay at signalized intersections, thus reducing vehicle emissions.

Description of the proposed project:

Coverage

This project will include CCTV and detection coverage necessary to provide roadway condition information to the Alpharetta TCC and optimized signal timing. This project will install a fiber trunk line along Windward Parkway from SR 9 to the McGinnis Ferry Road. See figures on page 2 for location maps of the project area.

Communications Plan

This project will use the new digital communications architecture. The video data and control communications from the new devices will be sent via Gig Ethernet network, as opposed to the older analog method involving switches and multiplexers. All network electronics required to operate and communicate with the devices in this project and existing traffic signals are included as well, including field devices and traffic signal connections to the TCC.

A 48-fiber optic trunk line will be located on the westbound side of Windward Parkway, as close to the back of the right-of-way as possible. The trunk will be carried within continuous conduit duct banks, which will have 2-2" conduits.

CCTV

CCTV cameras will be designed to provide coverage of critical intersections within the project limits. These cameras will be mounted on poles located off the shoulder of the roadway at the outside of the clear zone or protected by guardrail. However, where appropriate, some cameras may be mounted on traffic signal poles. The poles or other mounting apparatus for the cameras are included in this project.

Detection

Vehicle detection locations have been chosen to provide improved signal operations and traffic data along the project limits. These devices will be mounted on existing traffic signal poles and mast arm assemblies. The pole extensions or other mounting apparatus for the cameras 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(X), State Funded(), or Other ()

Functional Classification: Urban Minor Arterial

U. S. Route Number(s): _____ State Route Number(s): _____

Traffic (AADT):

source: *Alpharetta Engineering and Public Works*

Windward Parkway from McGinnis Ferry Road and Walnut Creek.....	10,500
Windward Parkway from Clubhouse Drive and Market Place.....	16,500
Windward Parkway from North Point Parkway and Edison Drive	30,000
Windward Parkway from Westside Parkway and GA 400.....	39,000

Existing design features:

- Typical Sections:
 - *Windward Parkway from SR 9 to McGinnis Ferry Road : 4 lanes divided*
- Posted speed
 - *Windward Parkway from SR 9 to North Point Parkway: 35 mph*
 - *Windward Parkway from North Point Parkway to McGinnis Ferry Road: 45 mph*
- Minimum Radius N/A
- Maximum super-elevation rate for curve: N/A
- Maximum grade: N/A %
- Width of right-of-way: N/A ft.

- Major structures: Windward Parkway under SR 400
- Major interchanges or intersections along the project: SR 400 @ Windward Parkway
- Existing length of roadway segment and the beginning mile logs for each county segment. For new location projects, the existing length of roadway is zero (0).

Windward Parkway from SR 9 to McGinnis Ferry Road: 4.7 miles
Mile Point: 0.03 to Mile Point: 4.76

Proposed Design Features:

- Proposed typical section(s): *There will be no change to the lanes or typical sections.*
- Proposed Design Speed Mainline
 - *Windward Parkway from SR 9 to North Point Parkway: 35 mph*
 - *Windward Parkway from North Point Parkway to McGinnis Ferry Road: 40 mph*
- 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 Maximum degree of curve N/A Maximum degree allowable N/A
- 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.*
 - *Easements: Temporary (), Permanent (), Utility (), Other ()*
 - *Type of access control: Full (), Partial (), By Permit (), Other ().*
 - *Number of parcels: 0 Number of displacements:*
 - *Business: 0*
 - *Residences: 0*
 - *Mobile homes: 0*
 - *Other: 0*
- Structures:
 - *Strain poles for CCTV and VDS, and strain poles with mast arms for Traffic Signals*
- Major intersections and interchanges.
 - *Windward Parkway @ SR 9*
 - *Windward Parkway @ Westside Parkway*
 - *Windward Parkway @ GA 400*
 - *Windward Parkway @ North Point Parkway*
 - *Windward Parkway @ McGinnis Ferry Road*
- Traffic control during construction: *Shoulder closures and/ or lane closures will be necessary during installation of conduit, fiber optic cables and strain poles.*

- 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)

- Design Variances : *None Known*
- Environmental concerns: *None Known*
- 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: (Ga. Power, AT&T, Atlanta Gas Light)
- **VE Study Required Yes() No(X)**

Project responsibilities:

- | | |
|-------------------------------|---------------------------|
| ○ Design | <i>City of Alpharetta</i> |
| ○ Right-of-Way Acquisition | N/A |
| ○ Relocation of Utilities | <i>City of Alpharetta</i> |
| ○ Letting to contract | <i>City of Alpharetta</i> |
| ○ Supervision of construction | <i>City of Alpharetta</i> |
| ○ Providing material pits | N/A |
| ○ Providing detours | N/A |

Traffic Signal Timing and Coordination

Traffic signals will be timed to maintain coordinated traffic flow progression through the synchronized intersections. The signal timing will be designed to minimize the overall total delay of the roadway segment. The major street typically carries the larger volumes, thus the signal timing will provide the majority of the green time to the major roadway approaches. The progression of vehicles along the major roadway will be given the priority even when the

characteristics of the roadway traffic flow and control changes. Once a signal timing plan has been completed to optimize traffic flow, any modification to the signal timing to increase green time on minor streets will not adversely affect the traffic flow progression on the major roadway.

Coordination

- Initial Concept Meeting date and brief summary. *To Be Determined*
- Concept meeting date and brief summary. *To Be Determined*
- P A R meetings, dates and results. None required
- FEMA, USCG, and/or TVA None required
- Public involvement *City Council meetings allocating local funding will be held*
- Local government comments. *N/A.*
- Other projects in the area. *See attached list*
- Railroads *None*
- Other coordination to date. None

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: 6 Months.
- Time to complete preliminary construction plans: 6 Month.
- Time to complete right-of-way plans: 0 Months.
- Time to complete the Section 404 Permit: N/A Months.
- Time to complete final construction plans: 1 Month.
- Time to complete to purchase right-of-way: N/A Months.
- List other major items that will affect the project schedule: 0 Months.

Other alternates considered:

Alternate 1: No Build

Comments: *Alternate does not meet the project requirements for improved efficiency.*

Attachments:

1. Concept Report Rating Form
2. List of other projects in the area
3. Notice of Location and Design Approval
4. Cost Estimates:
 - a. Construction including E&C,
 - b. Right-of-Way, and
 - c. Utilities.
5. Project Framework Agreement (PFA)

Projects in Area:

- 1. SR 400 HOV Lanes from I-285 to McFarland Road**
GDOT PI 0001757
PE – 2009, ROW – 2009
- 2. Widening of SR 400 from SR 140 (Holcomb Bridge Road) to McFarland Road**
GDOT PI 722010
CST – 2006
- 3. Big Creek Greenway Extension to SR 9**
GDOT PI 0006920.
ROW – 2006, CST – 2008
- 4. Widening of McFarland Road from McGinnis Ferry Road to SR 400**
GDOT PI N/A.
ROW – 2006, CST – 2007
- 5. Widening of McFarland Road from SR 400 to SR 9**
GDOT PI N/A.
PE – LR, ROW – LR, CST – LR
- 6. Widening of Union Hill Road from McGinnis Ferry Road to McFarland Road**
GDOT PI 0007097.
CST – 2006
- 7. Windward Parkway Traffic Signal Interconnect from SR 9 (Alpharetta Highway) to McGinnis Ferry Road**
GDOT PI 0006818.
CST – 2009
- 8. Fast Forward Traffic Signal Upgrade at 12 Locations along Mansell Road**
GDOT PI 0006407
CST – 2010

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

**FILE PROJECT No. CSCMQ-0006-00(818), Fulton County
Windward Pkwy Traffic Signal
Interconnections
P.I. No. 0006818**

OFFICE Traffic Operations

DATE 12/23/2008

Kathy Bailey for
FROM Keith Golden, P.E., State Signal Engineer

TO Brian K. Summers, P.E., Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Cynthia Burney, P.E.

MNGT LET DATE 6/19/2009

MNGT R/W DATE

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$1,150,000.00

DATE 2/17/2005

RIGHT OF WAY \$0.00

UTILITIES \$0.00

REVISED COST ESTIMATES

CONSTRUCTION* \$1,219,204.71

RIGHT OF WAY \$0.00

UTILITIES \$0.00**

* Costs contains 4% Construction Contingencies

** Costs contain 0% contingency.

REASON FOR COST INCREASE Cost estimate has not been updated since local government's original request through ARC for programming. Increase is attributable to inflation. This estimate, unlike the original, is based on itemized costs.

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$1,172,312.22	(Base Estimate)
Engineering and Inspection:	\$0.00	(By Local Gov. per PFA)
Construction Contingency:	\$46,892.49	(Base Estimate x 4 %) (The Construction Contingency is based on the Project Improvement Type in TPro.)
Total Fuel Adjustment	\$ 0.00	(N/A)
Total Liquid AC Adjustment	\$ 0.00	(N/A)
Construction Total:	\$1,219,204.71	
Utility Cost Estimate:	\$0.00	(To be determined, 100% by Local Government)
Utility Contingency:	\$0.00	0 %
Utility Total:	\$0.00	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Costs
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Attachments

cc: Genetha Rice - Singleton, Assistant Director of Preconstruction
Angela Whitworth, Financial Management Administrator

ATMS/Windward Parkway from SR9 to McGinnis Ferry Road
CSCMQ-0006-00(818)
PI 0006818
Concept Cost Estimate

ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
150-1000	TRAFFIC CONTROL CSNHS-0006-00(335)	LUMP	LUMP	\$ -	\$ 500,000.00
615-1200	DIRECTIONAL BORE, 5 IN	LF	500	\$ 21.59	\$ 10,795.00
647-2141	PULL BOX, PB-4S	EA	9	\$ 842.80	\$ 7,585.20
647-2170	PULL BOX, PB-5	EA	18	\$ 1,099.45	\$ 19,790.10
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	4,520	\$ 11.06	\$ 49,991.20
682-6228	CONDUIT, NONMETL, TP 2 - POWER SERVICE, 2 IN	LF	500	\$ 12.00	\$ 6,000.00
935-1113	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 12 FIBER	LF	780	\$ 1.94	\$ 1,513.20
935-1118	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 72 FIBER	LF	16,360	\$ 2.34	\$ 38,282.40
935-3103	FIBER OPTIC CLOSURE, UNDERGROUND, 12 FIBER	EA	9	\$ 680.87	\$ 6,127.83
935-3108	FIBER OPTIC CLOSURE, UNDERGROUND, 72 FIBER	EA	4	\$ 1,238.52	\$ 4,954.08
935-3601	FIBER OPTIC CLOSURE, FDC PRE-TERMINATED, TYPE A, 4 FIBER	EA	9	\$ 586.05	\$ 5,274.45
935-4010	FIBER OPTIC SPLICE, FUSION	EA	180	\$ 37.00	\$ 6,660.00
935-8000	TESTING	LUMP	LUMP	\$ -	\$ 10,000.00
936-1001	CCTV SYSTEM, TYPE B	EA	5	\$ 6,092.59	\$ 30,462.95
936-8000	TESTING	LUMP	LUMP	\$ -	\$ 7,000.00
937-1000	VIDEO CAMERA SENSOR ASSEMBLY	EA	2	\$ 3,061.83	\$ 6,123.66
937-3010	VDS SYSTEM PROCESSOR, TYPE A	EA	2	\$ 16,618.37	\$ 33,236.74
937-8000	TESTING	LUMP	LUMP	\$ -	\$ 8,287.43
938-1100	INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	10	\$ 6,707.77	\$ 67,077.70
938-1210	OUTPUT EXPANSION MODULE, TYPE A	EA	10	\$ 628.93	\$ 6,289.30
938-8000	TESTING	LUMP	LUMP	\$ -	\$ 8,000.00
939-1190	VIDEO ENCODER, TYPE A	EA	5	\$ 5,427.28	\$ 27,136.40
939-2222	GBIC ROUTING SWITCH MODULE, TYPE B	EA	20	\$ 12,540.00	\$ 250,800.00
939-2301	FIELD SWITCH, TYPE B	EA	2	\$ 6,371.01	\$ 12,742.02
939-4040	TYPE D CABINET	EA	2	\$ 4,643.36	\$ 9,286.72
939-5010	ELECTRICAL POWER SERVICE ASSEMBLY, AERIAL SERVICE POINT	EA	2	\$ 7,247.92	\$ 14,495.84
939-6000	HUB UNINTERRUPTIBLE POWER SUPPLY	EA	2	\$ 4,700.00	\$ 9,400.00
939-8000	TESTING	LUMP	LUMP	\$ -	\$ 15,000.00
				TOTAL	\$ 1,172,312.22

AGREEMENT
BETWEEN
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
AND
CITY OF ALPHARETTA
FOR
TRANSPORTATION FACILITY IMPROVEMENTS

This AGREEMENT is made and entered into this _____ day of _____, 2005, by and between the DEPARTMENT OF TRANSPORTATION, an agency of the State of Georgia, hereinafter called the "DEPARTMENT", and CITY OF ALPHARETTA, acting by and through its Mayor and Board of Commissioners, hereinafter called the "SPONSOR".

WHEREAS, the SPONSOR has represented to the DEPARTMENT a desire to improve the transportation facility described in **Exhibit A**, attached and incorporated herein by reference and hereinafter referred to as the "PROJECT"; and

WHEREAS, the SPONSOR has represented to the DEPARTMENT a desire to participate in certain activities of the PROJECT as set forth in this AGREEMENT, and the DEPARTMENT has relied upon such representations; and

WHEREAS, the DEPARTMENT has expressed a willingness to participate in certain activities of the PROJECT as set forth in this AGREEMENT.

NOW THEREFORE, in consideration of the mutual promises made and of the benefits to flow from one to the other, the DEPARTMENT and the SPONSOR hereby agree each with the other as follows:

1. The SPONSOR shall contribute to the PROJECT by funding all or certain portions of the PROJECT costs for the preconstruction engineering (design) activities as per Exhibit "A", utility relocations, right of way acquisitions as per a future Right of Way Agreement and construction as per a future Construction Agreement. Expenditures incurred by the SPONSOR and eligible for reimbursement by the DEPARTMENT shall not be considered reimbursible to the SPONSOR until execution of this agreement and written notice to proceed for each phase.

2. The DEPARTMENT shall contribute to the PROJECT by funding all or certain portions of the PROJECT costs for the preconstruction engineering (design) activities as per Exhibit "A", right of way acquisitions as per a future agreement or construction as per a future construction agreement.

3. It is understood and agreed by the DEPARTMENT and the SPONSOR that the funding portion as identified in Exhibit "A" of this agreement only applies to the Preconstruction Engineering Activities. Additional agreements will be required to be

executed by the DEPARTMENT and the SPONSOR for the funding portion of subsequent phases.

4. The SPONSOR shall be responsible for all costs for the continual maintenance and the continual operations of any and all sidewalks and the grass strip between the curb and gutter and the sidewalk within the PROJECT limits.

5. The SPONSOR shall Certify that they have read and understands the regulations for "CERTIFICATION OF COMPLIANCES WITH FEDERAL PROCUREMENT REQUIREMENTS, STATE AUDIT REQUIREMENTS, AND FEDERAL AUDIT REQUIREMENTS" as stated in attachment A of this Agreement and will comply in full with said provisions.

6. When applicable engineering invoicing can only be submitted following submittal and acceptance of project milestones. Project milestones are defined as approval of the Concept Report, Completion and verification of the Database Preparation, approval of the Environmental Document, submittal of Preliminary Plans for PFPR, approval of Right of Way plans, and submittal of Final Plans for letting.

7. The SPONSOR shall accomplish all of the design activities for the PROJECT. The design activities shall be accomplished in accordance with the DEPARTMENT's Plan Development Process, the applicable guidelines of the American Association of State Highway and Transportation Officials, hereinafter referred to as "AASHTO", the DEPARTMENT's Standard Specifications Construction of Transportation Systems, the

DEPARTMENT's Plan Presentation Guide, PROJECT schedules, and applicable guidelines of the DEPARTMENT. The SPONSOR's responsibility for design shall include, but is not limited to the following items:

a. Prepare the PROJECT concept report in accordance with the format used by the DEPARTMENT. The concept for the PROJECT shall be developed to accommodate the future traffic volumes as generated by the SPONSOR as provided for in paragraph 7b and approved by the DEPARTMENT. The concept report shall be approved by the DEPARTMENT prior to the SPONSOR beginning further development of the PROJECT plans. It is recognized by the parties that the approved concept may be modified by the SPONSOR as required by the DEPARTMENT and reapproved by the DEPARTMENT during the course of design due to public input, environmental requirements, or right of way considerations.

b. Develop the PROJECT's base year (year facility is expected to be open to traffic) and design year (base year plus 20 years) traffic volumes. This shall include average daily traffic (ADT) and morning (am) and evening (pm) peak hour volumes. The traffic shall show all through and turning movement volumes at intersections for the ADT and peak hour volumes and shall indicate the percentage of trucks expected on the facility.

c. Validate (check and update) the approved PROJECT concept and prepare a PROJECT Design Book for approval by the DEPARTMENT prior to the beginning of preliminary plans.

d. Prepare environmental studies, documentation, and reports for the PROJECT that show the PROJECT is in compliance with the provisions of the

National Environmental Protection Act and Georgia Environmental Protection Act, as appropriate to the PROJECT funding. This shall include any and all archaeological, historical, ecological, air, noise, underground storage tanks (UST), and hazardous waste site studies required as well as any environmental reevaluations required. The SPONSOR shall submit to the DEPARTMENT all environmental documents and reports for review and approval by the DEPARTMENT and the FHWA.

e. Prepare all public hearing and public information displays and conduct all required public hearings and public information meetings in accordance with DEPARTMENT practice.

f. Perform all surveys, mapping, soil investigation studies and pavement evaluations needed for design of the PROJECT.

g. Perform all work required to obtain project permits, including, but not limited to, US Army Corps of Engineers 404 and Federal Emergency Management Agency (FEMA) approvals. These efforts shall be coordinated with the DEPARTMENT.

h. Prepare the PROJECT's drainage design including erosion control plans and the development of the hydraulic studies for the Federal Emergency Management Agency Floodways and acquisition of all necessary permits associated with the drainage design.

i. Prepare traffic studies, preliminary construction plans including a cost estimate for the Preliminary Field Plan Review, preliminary and final utility plans, preliminary and final right of way plans, staking of the required right of way, and final construction plans including a cost estimate for the Final Field Plan Review,

erosion control plans, lighting plans, traffic handling plans, and construction sequence plans and specifications including special provisions for the PROJECT.

j. Provide certification, by a Georgia Registered Professional Engineer, that the construction plans have been prepared under the guidance of the professional engineer and are in accordance with AASHTO and DEPARTMENT guidelines.

k. Failure of the SPONSOR to follow the DEPARTMENT's Plan Development Process will jeopardize the use of Federal funds in some or all of the categories outlined in this AGREEMENT, and it shall be the responsibility of the SPONSOR to make up the loss of that funding.

8. All Primary Consultant firms hired by the SPONSOR to provide services on the PROJECT shall be prequalified with the DEPARTMENT in the appropriate area-classes. The DEPARTMENT shall, on request, furnish the SPONSOR with a list of prequalified consultant firms in the appropriate area-classes.

9. The PROJECT construction and right of way plans shall be prepared in English units.

10. All drafting and design work performed on the project shall be done utilizing Microstation and CAiCE software respectively, and shall be organized as per the Department's guidelines on electronic file management.

11. The DEPARTMENT shall review and has approval authority for all aspects of the PROJECT provided however this review and approval does not relieve the SPONSOR of its responsibilities under the terms of this agreement. The DEPARTMENT will work with the FHWA to obtain all needed approvals with information furnished by the SPONSOR.

12. The SPONSOR shall be responsible for the design of all bridge(s) and preparation of any required hydraulic and hydrological studies within the limits of this PROJECT in accordance with the DEPARTMENT's policies and guidelines. The SPONSOR shall perform all necessary survey efforts in order to complete the design of the bridge(s) and prepare any required hydraulic and hydrological studies. The final bridge plans shall be incorporated into this PROJECT as a part of this AGREEMENT.

13. The SPONSOR shall follow the DEPARTMENT's procedures for identification of existing and proposed utility facilities on the PROJECT. These procedures, in part, require all requests for existing, proposed, or relocated facilities to flow through the DEPARTMENT's Project Liaison and the District Utilities Engineer.

14. The SPONSOR shall address all railroad concerns, comments, and requirements to the satisfaction of the DEPARTMENT.

15. Upon the SPONSOR's determination of the rights of way required for the PROJECT and the approval of the right of way plans by the DEPARTMENT, the necessary rights of way for the PROJECT shall be acquired by the SPONSOR. Right

of way acquisition shall be in accordance with the law and the rules and regulations of the FHWA including, but not limited to, Title 23, United States Code; 23 CFR 710, et. seq., and 49 CFR Part 24, and the rules and regulations of the DEPARTMENT and in accordance with the Contract for the Acquisition of Right of Way to be prepared by the DEPARTMENT and executed between the SPONSOR and the DEPARTMENT prior to the commencement of any right of way activities. Failure of the SPONSOR to follow these requirements may result in the loss of Federal funding for the PROJECT and it will be the responsibility of the SPONSOR to make up the loss of that funding. All required right of way shall be obtained and cleared of obstructions, including underground storage tanks, prior to advertising the PROJECT for bids. The SPONSOR shall further be responsible for making all changes to the approved right of way plans, as deemed necessary by the DEPARTMENT, for whatever reason, as needed to purchase the right of way or to match actual conditions encountered.

16. Upon completion and approval of the PROJECT plans, certification that all needed rights of way have been obtained and cleared of obstructions, and certification that all needed permits for the PROJECT have been obtained by the SPONSOR, the PROJECT shall be let for construction. The SPONSOR, unless shown otherwise on EXHIBIT A, shall be solely responsible for securing and awarding the construction contract for the PROJECT.

17. The SPONSOR shall review and make recommendations concerning all shop drawings prior to submission to the DEPARTMENT. The DEPARTMENT shall have final authority concerning all shop drawings.

18. The SPONSOR agrees that all reports, plans, drawings, studies, specifications, estimates, maps, computations, computer diskettes and printouts, and any other data prepared under the terms of this AGREEMENT shall become the property of the DEPARTMENT if required. This data shall be organized, indexed, bound, and delivered to the DEPARTMENT no later than the advertisement of the PROJECT for letting. The DEPARTMENT shall have the right to use this material without restriction or limitation and without compensation to the SPONSOR.

19. The SPONSOR shall be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, and other services furnished by or on behalf of the SPONSOR pursuant to this AGREEMENT. The SPONSOR shall correct or revise, or cause to be corrected or revised, any errors or deficiencies in the designs, drawings, specifications, and other services furnished for this PROJECT. Failure by the SPONSOR to address the errors or deficiencies within 30 days shall cause the SPONSOR to assume all responsibility for construction delays caused by the errors and deficiencies. All revisions shall be coordinated with the DEPARTMENT prior to issuance. The SPONSOR shall also be responsible for any claim, damage, loss or expense, to the extent allowed by law, that is attributable to errors, omissions, or negligent acts related to the designs, drawings, specifications, and other services furnished by or on behalf of the SPONSOR pursuant to this AGREEMENT.

20. Both the SPONSOR and the DEPARTMENT hereby acknowledge that time is of the essence and both parties shall adhere to the priorities established in the approved Transportation Improvement Program/State Transportation Improvement Program (TIP/STIP) or earlier. Furthermore, all parties shall adhere to the detailed project schedule, as approved by the DEPARTMENT. In the completion of respective commitments contained herein, if a change in the schedule is needed, the DEPARTMENT shall have final authority. If, for any reason, the SPONSOR does not produce acceptable deliverables at the milestone dates defined in the current TIP/STIP, or in the approved schedule, the DEPARTMENT reserves the right to delay the project's implementation until funds can be re-identified for construction or right of way, as applicable.

21. This AGREEMENT is made and entered into in FULTON COUNTY, GEORGIA, and shall be governed and construed under the laws of the State of Georgia. The covenants herein contained shall, except as otherwise provided, accrue to the benefit of and be binding upon the successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the DEPARTMENT and the SPONSOR have caused these presents to be executed under seal by their duly authorized representatives.

RECOMMENDED:

SPONSOR

State Traffic Safety & Design Engineer

BY: _____
Title

Director of Operations

Signed, sealed and delivered this _____
day of _____, 2005, in the
presence of:

Chief Engineer

Witness

DEPARTMENT OF TRANSPORTATION

Notary Public

BY: _____
Commissioner

This Agreement approved on the
_____ day of _____, 2005.

ATTEST:

Treasurer

City/County Clerk (as appropriate)

REVIEWED AS TO LEGAL FORM:

FEIN: _____

Office of Legal Services

EXHIBIT "A"

CSCMQ-0006-00(818) & CSCMQ-0006-00(819) PIs 0006818 & 0006819 Fulton County

Project	Description	Project Type	Authorized PE Amount	Maximum Allowable Reimbursable to SPONSOR by GDOT for CST* (\$0% of the Current STP Amount)	Responsible Parties (Subject to change pending future agreements)		
					R/W Acquisition	Utilities Relocation	Construction Letting
CSCMQ-0006-00 (818) P.I. #0006818	Windward Pkwy Traffic Signal Interconnections	Q40	Local PE	\$1,150,000.00 >\$1,150,000.00 Local	Local	Local	Local
CSCMQ-0006-00(819) P.I. #0006819	North Point Pkwy Traffic Signal Interconnections	Q40	Local PE	\$1,070,000.00 >\$1,070,000.00 Local	Local	Local	Local

* NOTE: LOCALS WILL ONLY BE REIMBURSED 80% OF THE INVOICED AMOUNT UP TO BUT NOT TO EXCEED THE MAXIMUM ALLOWABLE GDOT REIMBURSIBLE AMOUNT.