

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006810, DeKalb County **OFFICE** Preconstruction
CSCMQ-0006-00(810)
South/North Hairston Road-
Traffic Signal Upgrade **DATE** July 25, 2008

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:

- Brian Summers
- Glenn Bowman
- Ken Thompson
- Michael Henry
- Keith Golden
- Bryant Poole
- Paul Liles
- Stanley Mack
- Mike Lobdell
- BOARD MEMBER

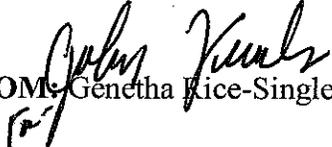
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0006810, DeKalb County
CSCMQ-0006-00(810)
South/North Hairston Road-
Traffic Signal Upgrade

OFFICE: Preconstruction

DATE: July 14, 2008


FROM: Genetha Rice-Singleton, Assistant Director of Preconstruction

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

SUBJECT: PROJECT CONCEPT REPORT

This project is the traffic signal upgrades and interconnects along a 1.2 mile section of South/North Hairston Road at the following intersections:

- (1) North Hairston Road and Kenilworth Drive
- (2) North Hairston Road and Keighley Drive
- (3) North Hairston Road and Rockbridge Road
- (4) South Hairston Road and Fairforest Drive
- (5) South Hairston Road and Martins Crossing Road
- (6) South Hairston Road and Elam Road
- (7) South Hairston Road and Mainstreet Park Drive

A combination of growth and aging traffic control equipment within the corridor has created unacceptable levels of congestions. Upgrades to traffic signal control equipment and communications hardware are needed to allow coordination of signals, reduce congestion and improve safety.

The proposed project will provide traffic signalization upgrades and pedestrian improvements including wheelchair ramps, pedestrian signals, and crosswalk striping to make the intersection ADA compliant. Traffic signals will be timed to maintain coordinated traffic flow progression through the synchronized intersection. 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 progression in the major roadway. Traffic will be maintained during construction. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures is appropriate.

P.I. No. 0006810, DeKalb County
Page 2
July 14, 2008

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 850,000	\$ 761,000	L400	2009
Right-of-way & utilities	Local	Local	Local	Local

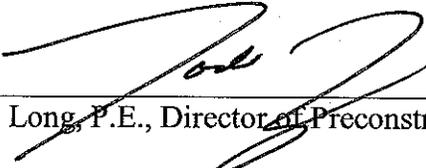
* PFA sent 10-10-2006 requesting DeKalb County do PE, right-of-way, utilities and 20% of construction costs, 100% construction costs over \$251K

I recommend this project concept be approved and the project description be revised to reflect the project herein.

GRS: JDQ

Attachment

CONCUR



Todd I. Long, P.E., Director of Preconstruction

APPROVED



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

PRECONSTRUCTION STATUS REPORT FOR DISTRICT 7

PROJ ID: 0006810
COUNTY: DeKalb
LENGTH: 12.07
PKG NO.: CSCMQ-0006-00(810)
PROJ MGR: Burney, Cynthia
OFFICE: Traffic Operations
CONSULTANT: Local Design, Local PE funds
SPONSOR: DeKalb County
DESIGN FIRM:

SR#S: 291 LAWRENCEVILLE HIGHWAY TRAFFIC SIGNAL UPGRADE
South/North Hairston Road Signal Upgrade

MPO: Atlanta TMA
TIP #: DK-337
NETWORK YR: 2010
TYPE WORK: ATMS/ITS
PROG TYPE: Safety
CONCEPT:

MGMT LET DATE: Nov-08
MGMT ROW DATE:
SCHED LET DATE: Oct-11
WHO LETS?: Local Let
LET WITH:

DOT DIST: 7
CONG. DIST: 5
BIKE: N
MEASURE:
UTILITY EST:
CST EST. DATE: 6/8/2007
RW EST. DATE:

BRIDGE SUFF RTG:

Sched Start	Sched Finish	Activity	Actual Start	Actual Finish	%	AUTHORIZED FUNDS
4/28/2008	6/20/2008	Define Project Concept	1/21/2008		8	PE Authorized Amt:
5/14/2008	5/14/2008	Concept Meeting			0	ROW Authorized Amt:
4/25/2008	5/29/2008	Concept Submittal and Review			0	CST Authorized Amt:
4/25/2008	5/8/2008	Receive Preconstruction Concept Approval	2/22/2008		82	Approved: 2008 Proposed: 2009
5/8/2008	5/8/2008	Management Concept Approval Complete			0	PROGRAMMED FUNDS 61,659.20 L400 PRECST
5/9/2008	4/26/2010	Environmental Approval			11	
11/9/2009	11/9/2009	Public Hearing Held			0	
6/27/2008	8/7/2008	Mapping			0	
8/11/2008	9/12/2008	Field Surveys/SDE			0	
4/25/2008	1/29/2009	Preliminary Plans	10/17/2007		0	
5/18/2010	5/19/2010	FFPR Inspection			7	
6/24/2010	6/28/2010	L & D Report Development and Approval			0	
5/20/2010	6/3/2010	R/W Acquisition			0	
5/9/2008	5/20/2008	Soil Survey			0	
6/29/2010	4/13/2011	Final Design			0	
5/5/2011	5/6/2011	FFPR Inspection			0	
5/20/2011	6/2/2011	FFPR Response			0	

Bridge: NO BRIDGE REQUIRED
EIS: CE I NotAprvd I OnSchedCST I TREADWAY (Upd3-19-08)
LGPA: PFA REQ DEKALB DO PERROWUTIL & 20% CST/100% OVER \$364K 10-10-06
Traffic Op: skm:CE submitted to OEL 2-7-08
Utility: WW: need Plans 06/2007

Status Meeting Notes
Concept: Pavement Design
Env:
R/W Plans: Bridge Plans
Utility Plans:
Soils/BFI: SM&S
Comments:

PREL. PARCEL CT: TOTAL PARCELS IN ROW SYSTEM: ACQ BY: LOC MGR: Black, Pam (LOC)
UNDER-REVIEW: RELEASED: OPT-PEND: COND-PEND: COND-FILED: RELOC: ACQUIRED:

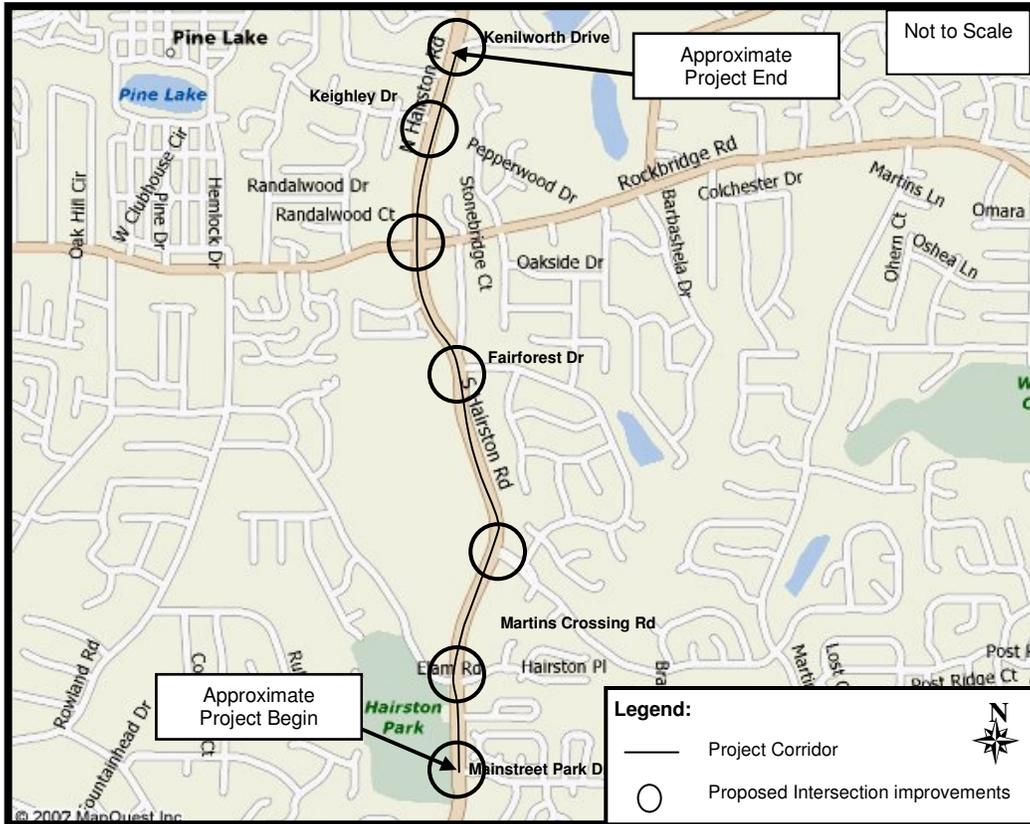
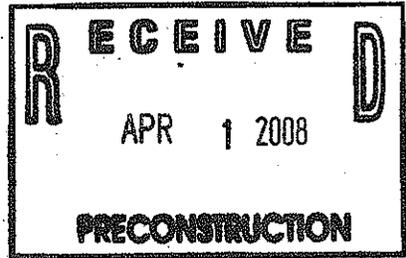


Figure 1: Project Location Map

Project Location Map
 South/North Hairston Road
 from Kenilworth Drive to Mainstreet Park Drive
 Project Number CSCMQ-0006-00(810)
 P.I. No. 0006810
 DeKalb County, Georgia



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(810)

County: DeKalb
P. I. Number: 0006810
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE 3/19/08

[Signature]
Project Manager

DATE 3-19-08

[Signature]
State Traffic Engineer

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

DATE 3/28/08

[Signature]
State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

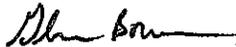
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0006810

OFFICE: Environment/Location

DATE: March 31, 2008

FROM: 
Glenn Bowman, P.E., State Environmental/Location Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
CSCMQ-0006-00(810) / DeKalb County

The above subject Concept Report has been reviewed and appears satisfactory subject to the following comment:

1. In addition to the information provided under Environmental Comments, at least six historic structures are located in the vicinity of the Fairforest, Martins Crossing, and Mainstreet intersections. A historic cemetery is located near the Martins Crossing and Elam intersections.
2. Process time of four (4) months may not be adequate for CE. Due to Park and historic resources, no easements can occur without jeopardizing type of CE and/or document.

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

GB/lc

Attachment

cc: Brian Summers
Bryant Poole
Keith Golden
Angela Alexander
Jamie Simpson

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(810)

County: DeKalb
P. I. Number: 0006810
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE _____

Project Manager

DATE _____

State Traffic Engineer

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

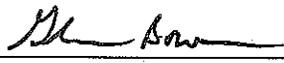
DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE 4/2/08



State Environmental/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(810)

County: DeKalb
P. I. Number: 0006810
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE _____

Project Manager

DATE _____

District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE 3-12-08



State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

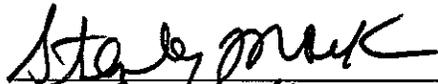
Project Number: CSCMQ-0006-00(810)

County: DeKalb
P. I. Number: 0006810
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE 3/19/08

DATE 3-19-08



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 Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

Project Concept Report
Project Number: CSCMQ-0006-00(810)
P.I. Number: 0006810
County: DeKalb

Need and Purpose:

The project consists of traffic signal upgrades and interconnect along a 1.2 mile section of the South and North Hairston Road corridors from Kenilworth Drive to Mainstreet Park Drive. The project area is located within DeKalb County. The purpose of this project is to provide traffic signalization upgrades and pedestrian improvements including wheelchair ramps, pedestrian signals, and crosswalk striping to make the intersections ADA compliant and to reduce emissions by creating more efficient traffic operations.

Accident Data

Not provided.

Description of the proposed project:

The proposed project is entirely contained within Dekalb County. The project consists of the South and North Hairston Road corridors from Kenilworth Drive to Mainstreet Park Drive. The total project length is approximately 1.2 mile. The project encompasses signal upgrades and pedestrian improvements at the following signalized intersections along the corridor:

1. North Hairston Road and Kenilworth Drive
2. North Hairston Road and Keighley Drive
3. Hairston Road and Rockbridge Road
4. South Hairston Road and Fairforest Drive
5. South Hairston Road and Martins Crossing Road
6. South Hairston Road and Elam Road
7. South Hairston Road and Mainstreet Park Drive

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

This project is not a capacity adding project. As such, this project is considered exempt.

PDP Classification: Minor Project

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

Functional Classification: Hairston Road –Urban Principal Arterial

U. S. Route Number(s): None **State Route Number(s):** None

2006 Traffic (AADT)

Hairston Road – Kenilworth Dr to Mainstreet Park Dr 28,730 vehicles

Existing design features:

- Typical Section:
 - Between Kenilworth Drive to Mainstreet Park Drive: 4-lane divided section with a raised median and four 11-foot through lanes in each direction and left turn lanes at intersections.
- Posted speed: 40 mph
- Maximum degree of curvature: Not measured

Project Concept Report
 Project Number: CSCMQ-0006-00(810)
 P.I. Number: 0006810
 County: DeKalb

- Maximum grade: Not measured
- Width of right-of-way: Typically 100 feet
- Major structures: None
- Major interchanges or intersections along the project:
 - North Hairston Road and Kenilworth Drive
 - North Hairston Road and Keighley Drive
 - Hairston Road and Rockbridge Road
 - South Hairston Road and Fairforest Drive
 - South Hairston Road and Martins Crossing Road
 - South Hairston Road and Elam Road
 - South Hairston Road and Mainstreet Park Drive

Proposed Design Features:

- Typical Section:
 - Same as existing with minor additions of channelizing islands
- Right of way
 - Width: Same as existing
 - Easements: Temporary (X), Permanent (), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 0
 - Number of displacements: Business: 0 Residences: 0 Mobile homes: 0 Other: 0 .
- Structures: Same as existing
- Major intersections and interchanges: Same as existing
- Traffic control during construction: Traffic to remain on existing streets with limited lane closures.
- 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 anticipated.

Project Concept Report
Project Number: CSCMQ-0006-00(810)
P.I. Number: 0006810
County: DeKalb

- Environmental concerns:

Historic Resources

Existing information on previously identified historic properties has been checked to determine if any are located within the Area of Potential Effect (APE) of this undertaking. The APE of the project has been defined as the area in which the proposed project could physically or visually affect any structural resources aged 50 years old or older. This review of existing information revealed that although there are several brick ranch homes that were 50 years or older, there are no facilities on the National Register of Historic Places.

Parks

There is one public park in the project area. It is Hairston Park located at 911 S Hairston Road.

Underground Storage Tanks

There is one facility that may contain an underground storage tank. It is the CITGO on the corner of Rockbridge and South Hairston Road.

A survey for facilities that may produce hazardous waste was conducted. The following sites are listed by EPA as handling hazardous material: Larry's One Hour Martinizing at 5444-A Rockbridge Road, Quality Care Cleaners located at 414 N Hairston Road and Donnie Clack located at 764 South Hairston Road.

Environmental concerns within the project corridor other than those previously addressed would be minimal.

No other significant environmental concerns have been identified.

- 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: The following utility companies may have facilities affected by the proposed project:

- Atlanta Gas Light
- AGL Networks, LLC
- Bellsouth
- Comcast
- Georgia Power Company
- DeKalb County Water & Sewer

Project Concept Report
Project Number: CSCMQ-0006-00(810)
P.I. Number: 0006810
County: DeKalb

Project responsibilities:

- Design: DeKalb County
- Right-of-Way Acquisition: None
- Relocation of Utilities: DeKalb County
- Letting to contract: DeKalb County
- Supervision of construction: DeKalb County
- Providing material pits: Not applicable
- Providing detours: Not applicable

Coordination

Other projects in the area.

- GDOT # 0006809 – South Indian Creek Road/Redan Road Traffic Signal Upgrade
- GDOT # 751230 (DK-023a) – Redan Road from I-285 to South Stone Mountain-Lithonia Road widening and multi-use facility that incorporates bike lanes, sidewalks with pedestrian features
- Kensington Road/Camp Road/Porter Road Intersection/Pedestrian Improvements, DeKalb County Bond Project, CST 2007
- Railroad: *None anticipated*
- Other coordination to date:
 - 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.

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 12 ^{*1400*} Months.
- Time to complete preliminary construction plans: 2 Months.
- Time to complete right of way plans: N/A Months.
- Time to complete the Section 404 Permit: N/A Months.
- Time to complete final construction plans: 2 Months.
- Time to complete to purchase right of way: N/A Months.
- List other major items that will affect the project schedule: N/A.

Other alternatives considered: None

Attachments: Construction Cost Estimate

Estimate Report for file "CSCMAQ-0006-00(810)"

Section Detailed Estimate					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	49000.00	TRAFFIC CONTROL - CSCMAQ-0006-00(810)	49000.00
210-0100	1	LS	35000.00	GRADING COMPLETE - CSCMAQ-0006-00(810)	35000.00
441-0104	496	SY	34.31	CONC SIDEWALK, 4 IN	17017.76
441-6222	781	LF	19.27	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	15049.87
515-2020	140	LF	35.40	GALV STEEL PIPE HANDRAIL, 2 IN, ROUND	4956.00
610-6515	7	EA	85.56	REM HIGHWAY SIGN, STD	598.92
611-5360	3	EA	579.11	RESET HIGHWAY SIGN	1737.33
615-1200	120	LF	11.77	DIRECTIONAL BORE - 3 IN	1412.40
636-1033	25	SF	19.70	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	492.50
636-1041	264	SF	37.12	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	9799.68
636-2070	26	LF	8.07	GALV STEEL POSTS, TP 7	209.82
636-2090	30	LF	8.92	GALV STEEL POSTS, TP 9	267.60
639-2001	10720	LF	2.37	STEEL WIRE STRAND CABLE, 1/4 IN	25406.40
639-3004	5	EA	10853.70	STEEL STRAIN POLE, TP IV	54268.50
639-3014	1	EA	12200.85	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM	12200.85
641-1100	100	LF	45.20	GUARDRAIL, TP T	4520.00
641-5012	1	EA	1819.10	GUARDRAIL ANCHORAGE, TP 12	1819.10
647-1000	1	LS	50577.00	TRAFFIC SIGNAL INSTALLATION NO - 1	50577.00
647-1000	1	LS	70561.07	TRAFFIC SIGNAL INSTALLATION NO - 3	70561.07
647-1000	1	LS	50739.20	TRAFFIC SIGNAL INSTALLATION NO - 5	50739.20
647-1000	1	LS	55057.86	TRAFFIC SIGNAL INSTALLATION NO - 6	55057.86
647-1000	1	LS	58930.93	TRAFFIC SIGNAL INSTALLATION NO - 7	58930.93
647-1000	1	LS	47928.06	TRAFFIC SIGNAL INSTALLATION NO - 2	47928.06
647-1000	1	LS	57124.90	TRAFFIC SIGNAL INSTALLATION NO - 4	57124.90
647-2140	9	EA	1100.00	PULL BOX, PB-6	9900.00
653-0120	12	EA	73.82	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	885.84
653-0160	3	EA	139.38	THERMOPLASTIC PVMT MARKING, ARROW, TP 6	418.14
653-0170	2	EA	85.04	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	170.08
653-1501	20	LF	0.62	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	12.40
653-1704	679	LF	4.12	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	2797.48
653-1804	7600	LF	2.13	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	16188.00
681-5112	2	EA	615.18	LUMINAIRE BRACKET ARM, 10 FT ARM	1230.36
682-6120	50	LF	14.45	CONDUIT, RIGID, 2 IN	722.50
682-6233	2960	LF	4.74	CONDUIT, NONMETL, TP 3, 2 IN	14030.40
687-1050	1	LS	10500.00	TRAFFIC SIGNAL DATABASE CONVERSION - CSCMAQ-0006-00(810)	10500.00
935-1116	13350	LF	1.67	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 72 FIBER	22294.50
935-1511	1570	LF	2.75	OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 6 FIBER	4317.50
935-3106	2	EA	887.95	FIBER OPTIC CLOSURE, UNDERGROUND, 72 FIBER	1775.90
935-3206	6	EA	505.00	FIBER OPTIC CLOSURE, AERIAL (SEALED), 72 FIBER	3030.00
935-3602	7	EA	568.81	FIBER OPTIC CLOSURE, FDC PRE-TERMINATED, TYPE A, 6-FIBER	3981.67
935-4010	50	EA	43.93	FIBER OPTIC SPLICE, FUSION	2196.50
935-5060	14	EA	175.35	FIBER OPTIC SNOWSHOE	2454.90
935-8000	1	LS	4815.66	TESTING - CSCMAQ-0006-00(810)	4815.66
938-1100	2	EA	5873.35	INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	11746.70
938-8000	1	LS	4606.76	TESTING - CSCMAQ-0006-00(810)	4606.76
939-2305	7	EA	2892.61	FIELD SWITCH, TYPE C	20248.27
Section Sub Total:					\$762,999.31

Total Estimated Cost: \$762,999.31

ENGINEERING @ 5% - 38,150

CONTINGENCY @ 6% - 48,068

TOTAL CONST COST \$ 849,217

R/W - LOCAL

REIM UTILITIES - LOCAL

TOTAL PROJECT COST - \$ 849,217