

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE HPP-0000-00(266) Fulton County **OFFICE** Preconstruction
P. I. No. 0000266 **DATE** November 17, 2000

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:

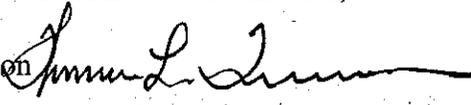
- Tom Turner
- David Mulling
- Harvey Keeper
- Jerry Hobbs
- Herman Griffin
- Michael Henry
- Marion Waters
- Marta Rosen
- Paul Liles
- Jimmy Chambers (ATTN: Ted Cashin)
- Steve Henry

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE HPP-0000-00(266) Fulton County **OFFICE** Preconstruction
P.I. No. 0000266

DATE November 1, 2000

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

TO J. Tom Coleman, Jr., Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the intersection improvements at Mayfield Road and Providence Road, located in north Fulton County. Mayfield Road and Providence Road are rural two lane roadways within the project limits with a 45 MPH speed limit. Both roadways carry substantial commuter traffic and the associated future delays within the project limits will be substantial. Traffic volumes for this section of Mayfield Road are 9,772 VPD for year 2000 and 17,649 VPD for the design year, 2020. The existing unsignalized intersection currently operates at a Level-of-Service (LOS) "E" for the am peak hour and at LOS "C" for the pm peak hour. With the proposed improvements, the intersection will operate at a LOS "B" (am peak hour) and LOS "B" (pm peak hour) for the year 2020.

The proposed construction will improve 0.3 mile of Mayfield Road adding a 200' left decel lane to the east and west approaches. Improvements to Mayfield Road will extend approximately 600' west to upgrade a deficient vertical curve to meet the existing 45 MPH speed limit. Improvements to providence Road will extend 440'± north of Mayfield Road, adding 200' left and right turn lanes at this "T"-intersection. Improvements to Providence Road will also upgrade a deficient intersection angle. A traffic signal will be installed at this intersection. Traffic will be maintained, via staging, during construction.

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)	\$387,000	\$400,000	2004	01-12
Right-of-Way & Utilities*	Local	Local		

PROJECT CONCEPT REPORT
PROJECT NUMBER HPP-0000266
P.I. NO 0000266

DATE: July 12, 2000

PROJECT NUMBER: HPP-0000266 COUNTY: Fulton

DESCRIPTION: Intersection improvement at Mayfield Road at Providence Road LENGTH: 2200 feet

P.I. NO.: 0000266 U.S. ROUTE NO.: N/A STATE RT. NO. N/A

LOCATION: N.Fulton Co. along Mayfield Rd. between Mayfield Manor Dr. and Mayfield Circle, at Providence Rd.

MILE POINT REFERENCE: AT INTERSECTION N/A

TRAFFIC

<u>CURRENT</u>		<u>PROJECTED</u>	
<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>
2000	9,772	2020	17,649

<u>PDP CLASSIFICATION</u>	<u>NON-CA</u>	<u>CA</u>	<u>EX</u>	<u>SF</u>	<u>FUNCTION CLASSIFICATION</u>
Minor	()	()	(X)	()	Urban Collector

EXISTING DESIGN

TYPICAL SECTION: Mayfield Road is currently a two-way road with 12'lanes in each direction with a variable width, rural type grass shoulder. The existing R/W is 50'.

Providence Road is currently a rural two-way road with 12'lanes in each direction with a variable width, rural type grass shoulder. The existing R/W is 50'.

	<u>POSTED SPEED</u>	<u>MIN. EXISTING RADIUS OF CURVE</u>	<u>MAX. EXISTING GRADE</u>
Mayfield Road	45 MPH	300 FEET	3.6 %
Providence Road	45 MPH	1000 FEET	2.3 %

EXISTING MAJOR STRUCTURES

<u>FEATURES INTERSECTED</u>	<u>LENGTH</u>	<u>WIDTH</u>
Evergreen Lane	500 feet	24 feet

<u>YEAR</u>	<u>ACCIDENT HISTORY</u>					
	<u>ALL ACCIDENTS</u>		<u>INJURY ACCIDENTS</u>		<u>FATAL ACCIDENTS</u>	
	<u>Rate</u>	<u>Number</u>	<u>Rate</u>	<u>Number</u>	<u>Rate</u>	<u>Number</u>
1997	0	0	0	0	0	0
1998	5.13%	2	9.09%	1	0	0
1999	3.57%	2	0	0	0	0

PROJECT CONCEPT REPORT
PROJECT NUMBER HPP-0000266
P.I. NO 0000266

PROJECT NEED AND PURPOSE

The proposed project includes improvements at the intersection of Mayfield Road and Providence Road. The project will improve 0.3 miles of Mayfield Road adding a 200-ft. left turn decel lane and 200 ft. right turn decel lanes to the east and west approaches. Improvements to Mayfield Road will extend approximately 600 ft. west to upgrade a deficient vertical curve to meet the existing 45-mph posted speed. Improvements to Providence Road will extend approximately 440 ft. north of Mayfield Road, adding 200-ft left and right turn lanes at this intersection. Improvements to Providence Road will also correct a deficient intersection skew angle. The proposed project will include the installation of a traffic signal.

Mayfield Road is currently two lanes with a 45-mph speed limit. It serves residential developments at its intersection with Providence Road. The proposed improvements would serve to alleviate daily traffic congestion and improve the safety of the intersection.

Traffic volumes (ADT) for this section of Mayfield Road are 9,772 for year 2000 and 17,649 for the design year 2020. The existing unsignalized intersection currently operates at a level of service (LOS) E for the am peak hour and at a LOS C for the pm peak hour. The LOS for the existing unsignalized intersection using the projected year 2020 volumes would fall below LOS F. Immediately after construction, the signalized intersection will operate at a LOS B for the am peak hour and LOS A for the pm peak hour. With the proposed improvements, the intersection will operate at a LOS B (am peak hour) and LOS B (pm peak hour) for the year 2020. (Traffic counts for the year 2000, year 2020, traffic analysis LOS procedures are based on the 1997 Highway Capacity Manual using HCS software and were provided by Grice & Associates).

Traffic signal warrants require a traffic signal to be installed at this intersection. The Peak Hour Volume warrant was met for this intersection, based on the Manual of Uniform Traffic Control Devices (MUTCD). Pedestrian crossing assemblies will be installed at each crosswalk, this includes the pedestrian signal, sign and button.

This project is identified in the current Transportation Improvement Plan (TIP) of the Atlanta Regional Commission (ARC Project No. FN192F). Additional projects in the vicinity include the intersection improvements of Mayfield Road at Bethany Road (HPP-0000267), PI#0000267 and the intersection improvement of Cumming Highway (SR 9) at Webb Road (HPP-0000258), PI#0000258.

PROJECT CONCEPT REPORT
PROJECT NUMBER HPP-0000266
P.I. NO 0000266

F.	Concrete work						
	Curb & Gutter	2000	ft	@	\$20	LF	\$40,000
	Sidewalk	1000	sq yd	@	\$24	sq yd	\$24,000
						Subtotal	\$64,000
G.	Traffic control	1	LS	@	\$13,000		\$13,000
						Subtotal	\$13,000
H.	Erosion Control	1	LS	@	\$15,000		\$15,000
						Subtotal	\$15,000
I.	Signs, Striping, Signals, & Lighting						
	Signing & Marking	1		@	\$8,000		\$8,000
	Traffic signals						
	New	1		@	\$65,000		\$65,000
						Subtotal	\$73,000
J.	Grassing/Landscaping						
	Grassing	1.5	ac	@	\$2,471		\$3,707
						Subtotal	\$3,707
K.	Miscellaneous						
	Right of Way markers	10		@	\$45		\$450
						Subtotal	\$450
L.	Major Structures						
						Subtotal	\$0

PROJECT CONCEPT REPORT
PROJECT NUMBER HPP-0000266
P.I. NO 0000266

MAYFIELD ROAD @ PROVIDENCE ROAD PRELIMINARY COST ESTIMATE

PROJECT NUMBER: HPP-0000266

FULTON COUNTY

DATE: May 15, 2000

PREPARED BY: LCW (KHAFFRA)

LENGTH: 2700 FEET

PROJECT DESCRIPTION: Intersection of Mayfield Road and Providence Road

A.	Right Of Way				By Locals		
					Subtotal	\$0	
B.	Utilities				By Locals		
					Subtotal	\$0	
C.	Grading Complete	0.5	ac	@	\$40,000/ac	\$20,000	
					Subtotal	\$20,000	
D.	Base and paving						
	G.A.B.	700	Ton	@	\$16 Tn	\$11,200	
	Asph 12.5 mm	500	Ton	@	\$42 Tn	\$21,000	
	Asph 19 mm	750	Ton	@	\$42 Tn	\$31,500	
	Asph 25 mm	1000	Ton	@	\$40 Tn	\$40,000	
	Levelling	250	Ton	@	\$38 Tn	\$9,500	
	Tack Coat	750	Gal	@	\$2 gl	\$1,125	
					Subtotal	\$114,325	
E.	Drainage						
	18" Storm Drain Pipe	100		@	\$89 LF	\$8,900	
	Drop Inlet, GP 1	1		@	\$1,277 EA	\$1,277	
	Catch Basin, GP1	3		@	\$1,400 EA	\$4,200	
	FES	4		@	\$400 EA	\$1,600	
					Subtotal	\$15,977	

PROJECT CONCEPT REPORT
PROJECT NUMBER HPP-0000266
P.I. NO 0000266

CONCEPTUAL ESTIMATE SUMMARY

- A. Right of Way By Locals
B. Reimbursable Utilities By Locals

Construction Cost Summary

C.	Grading Complete	\$20,000
D.	Base & Paving	\$114,325
E.	Drainage	\$15,977
F.	Concrete Work	\$64,000
G.	Traffic Control	\$13,000
H.	Erosion Control	\$15,000
I.	Sign, Striping, Signals	\$73,000
J.	Grassing, Landscaping	\$3,707
K.	Miscellaneous	\$450
L.	Major Structures	\$0
	Total Construction Estimate	\$319,459
	2 Years of Inflation @ 5.00 %	\$32,745
	10% E & C	\$35,220
	Total Construction Estimate	\$387,424

PROJECT CONCEPT REPORT
PROJECT NUMBER HPP-0000266
P.I. NO 0000266

Notice of Location and Design Approval

Project Number HPP-0000266
Fulton County
P.I. # 0000266

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

The project consists of the reconstruction of the intersection at Mayfield Road and Providence Road. The project lies entirely within Fulton County, G.M.D. 1, Land District 2, Land Lots 1127, 1128, 1177 and 1178.

Date of Location and Design Approval: _____.

The project will improve 0.3 miles of Mayfield Road adding a 200 ft. left turn decel lane and 200 ft. right turn decel lanes to the east and west approaches. Improvements to Mayfield Road will extend approximated 600 ft. west to upgrade a deficient vertical curve to meet the existing 45 mph speed. Improvements to Providence Road will extend approximately 440 ft. north of Mayfield Road, adding 200 ft' left and right turn lanes at this T-intersection. Improvements to Providence Road will also upgrade a deficient intersection angle. A traffic signal will be installed at the intersection.

Drawings or maps or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation (5025 New Peachtree Road, Chamblee, Georgia 30341). Or, any interested party may obtain a copy of the drawings or maps or plats by writing to the Georgia Department of Transportation, No. 2 Capitol Square, Atlanta, Georgia 30334 and paying a nominal cost therefore.

Any written request to this notice SHOULD include the PROJECT AND PI NUMBERS AS NOTED AT THE TOP OF THIS NOTICE AND may be referred to:

Stephen T. Henry
Georgia Department of Transportation
District 7
5025 New Peachtree Road
Chamblee, GA 30341
(770) 986-1050

8. Check 150' storage at Providence and check turning movement counts. They appear to be low, per Scott Lee. Loretta to check with Grice & Assocs.
9. Per Guan, check with zoning to see id any developers at intersections.
10. Check Evergreen Lane on Providence to see id it dead-ends, per George.
11. Per Scott Lee, roundabouts can be a design consideration.
12. Verify posted speed limits at both intersections.
13. Email the concept report to District 7.
14. George to send KHAFRA the historic documentation. George to get city map from Dennis and provide to KHAFRA.
15. George was told by county management that they don't expect PIM on intersections and they are not required. Dennis suggested having a PIM early.
16. Mention pedestrian signals in reports.
17. Provide a more detailed cost estimate per Key. DOT has \$400,000 slated for each intersection with 80-20 match.
18. PI Nos: Providence 0000266, and Bethany 0000267.

If you have any additions or corrections to these minutes, please e-mail Loretta Washington at lwashington@khafra.com or call at (404) 525-0501 Ext. 202.

cc: All attendees
Ernest Slaughter, Pounds*Harris*MHR

Kick-off Concept Meeting Minutes

GA 400/North Fulton Intersections - II

May 16, 2000

3:00p.m.

GaDOT District 7 Office

Attendees: Key Phillips, GaDOT
Mike Malcom, GaDOT
Ralph Merrow, GaDOT
Scott Lee, GaDOT
Dennis Woodling, City of Alpharetta
George Osborne, RMJ
Brandon Hewitt, KHAFRA
Guan Ellis, KHAFRA
Loretta Washington, KHAFRA

Minutes Prepared by: Loretta Washington

Following are the highlights of the meeting:

1. KHAFRA distributed copies of the draft concept report for Providence and Bethany intersections.
2. Key Phillips stated that the plans are to be 20 scale. He stated that there is no way to make R/W by the 30th deadline. It may be put in the 2004 funding. George Osborne stated that Mitch Fowler met with Comm. Shackelford and some relief may be possible. Meanwhile, every effort is being made to complete the project by 6/30/00.
3. Providence is in Alpharetta city limits.
4. Loretta to submit copy of traffic study to Key Phillips. KHAFRA still waiting for accident summary from Fulton Co. Police Dept.
5. Change bike lanes to 4' per Scott Lee.
6. Currently there are no design variances per Loretta.
7. Make a statement in Needs and Purpose re: LOS for existing intersection and LOS with improvements. District 7 will forward to traffic operations per Scott Lee.

Distribution Continued

David Mulling, w/ attachment

Marta Rosen

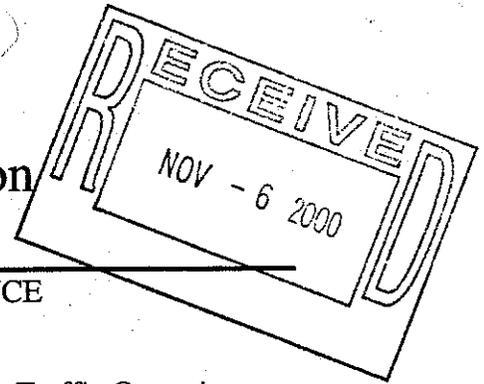
Yancy Bachmann, District Traffic Operations Engineer, Chamblee

Chuck Hasty, TMC

General Files

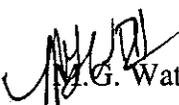
Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE



File: HPP-0000266/Fulton County
P.I. No. 0000266

Office: Traffic Operations
Atlanta, Georgia
Date: October 27, 2000

From:  M.G. Waters, III, P.E., State Traffic Operations Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the intersection improvements at Mayfield Road and Providence Road, located in north Fulton County. This is a "T" type intersection with Providence Road ending at Mayfield Road.

Mayfield Road and Providence Road both consist of two 12 foot travel lanes with variable width rural type shoulders and posted speed limits of 45mph.

This project proposes to improve .3 miles of Mayfield Road by adding left and right turn deceleration lanes to the east and west approaches. Improvements will continue along Mayfield Road for approximately 600 feet west to upgrade a deficient vertical curve, that doesn't meet the design or posted speed limit of 45mph. The typical design proposes an urban facility with 5 foot sidewalk, 4 foot bicycle lanes and curb and gutter on both sides. Providence Road will consist of two 12 foot lanes with urban shoulder treatment and 5 foot sidewalk on both sides. Left and right turn lanes will also be included. This project will also correct a deficient intersection skew angle and install a traffic signal at this location. Traffic is to be maintained, via staging, during construction.

We believe this concept will improve safety and traffic operations along this section of roadway.

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: Harvey Keepler
Stephen T. Henry, District Engineer, Chamblee
Attention: Wm. Scott Lee

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

PROJECT CONCEPT REPORT

PROJECT NO. HPP-0000266
FULTON COUNTY

INTERSECTION IMPROVEMENT
MAYFIELD ROAD AT PROVIDENCE ROAD

U.S. Route No.: None
State Route No.: None
P.I. No.: 0000266

Location Map: See Page 2

Prepared by: KHAFRA Engineering Consultants, Inc.
RECOMMENDATION FOR APPROVAL

Date of Report: July 12, 2000

Date _____ State Environmental/Location Engineer

Date _____ State Traffic Operations Engineer

10-23-00
Date

Stephen T. Hurry
District Engineer

Date _____ State Project Review Engineer

11/3/00
Date

Marta Rosen
State Transportation Planning Administrator

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

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

PROJECT CONCEPT REPORT

PROJECT NO. HPP-0000266
FULTON COUNTY

INTERSECTION IMPROVEMENT
MAYFIELD ROAD AT PROVIDENCE ROAD

U.S. Route No.: None
State Route No.: None
P.I. No.: 0000266

Location Map: See Page 2

Prepared by: KHAFRA Engineering Consultants, Inc.

Date of Report: July 12, 2000

RECOMMENDATION FOR APPROVAL

Date

State Environmental/Location Engineer

10/3/1000

Date

State Traffic Operations Engineer

10-23-00

Date

District Engineer

Date

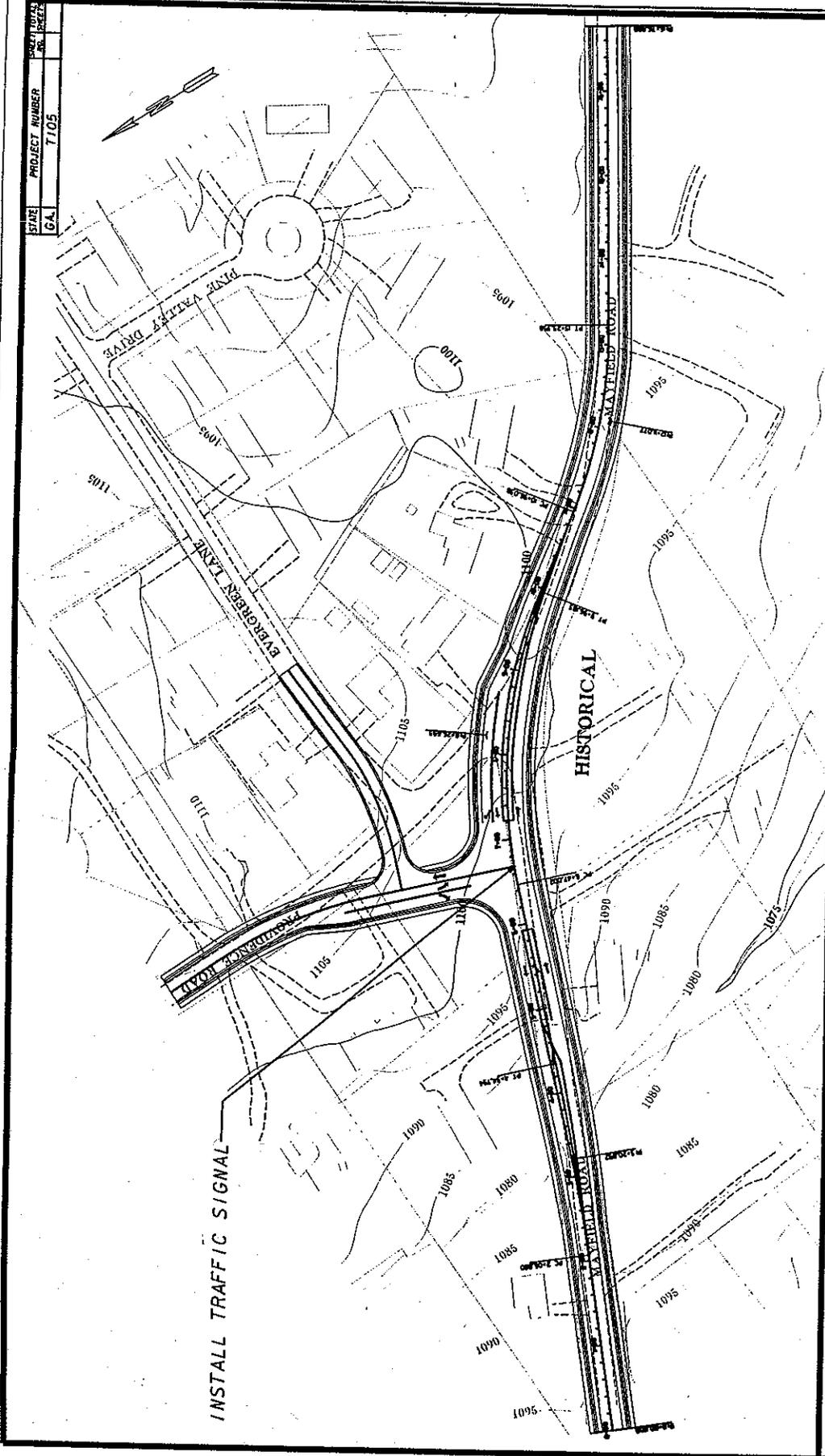
State Project Review Engineer

Date

State Transportation Planning Administrator

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

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	1105		



DATE	REVISIONS	DATE	REVISIONS

KHAFRA
2210 WINDY VALLEY DRIVE, SUITE 200
 ATLANTA, GA 30329
 (404) 525-1100

FULTON COUNTY
 DEPARTMENT OF PUBLIC WORKS
CONCEPT PLAN
 GA 400 CORRIDOR/NORTH FULTON INTERSECTIONS - 11
 MAYFIELD ROAD @ PROVIDENCE ROAD
 DATE 06/02/00 SH 1 OF 1