

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** STP-0005-00(652) Cobb County **OFFICE** Preconstruction  
P. I. No. 0005652 **DATE** December 29, 2003

**FROM** *Margaret B. Pirkle*  
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT** PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

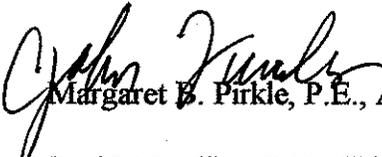
DISTRIBUTION:

David Mulling  
Harvey Keeper  
Jerry Hobbs  
Percy Middlebrooks  
Michael Henry  
Phillip Allen  
Joe Palladi (file copy)  
Paul Liles  
Brent Story  
Ben Buchan  
Buddy Gratton  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-0005-00(652) Cobb County **OFFICE** Preconstruction  
P.I. No. 0005652 **DATE** December 10, 2003

**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** *for* Paul V. Mullins, P.E., Chief Engineer

**SUBJECT PROJECT CONCEPT REPORT**

This project is the installation of an adaptive traffic signal timing system at sixty-nine (69) traffic signals within the Cumberland CID area (see attachment for project location list). The installation of video detection and replacement of traffic signal cabinets and controllers are included in this project. This project will improve the operation of Paces Ferry Road, Cobb Parkway, Akers Mill Road, Cumberland Parkway, Powers Ferry Road, Windy Hill Road, and Windy Ridge Parkway.

The estimated costs for this project are:

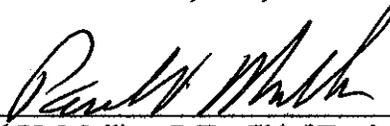
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$3,100,000	\$3,100,000	2004	2004
Right-of-Way & Utilities*	-0-	-0-		

I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

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

APPROVE   
Paul V. Mullins, P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

DEC - 2 2003

**FILE:** STP-0005-00(652) Cobb  
P.I. No.: 0005652  
Adaptive Signal Timing Installation

**OFFICE:** Engineering Services

**DATE:** December 1, 2003

**FROM:** David Mulling, Project Review Engineer *REW*

**TO:** Meg Pirkle, Assistant Director of Preconstruction

**SUBJECT: CONCEPT REPORT**

We have reviewed the Concept Report submitted December 1, 2003 by the letter from Phillip Allen dated November 24, 2003 and have no comments.

The costs for this project are:

Construction	\$3,100,000
Inflation	\$0
E&C	\$0
Reimbursable Utilities	\$0
Right of Way	\$0

REW

c: Phillip Allen, Attn.: Jim Tolson (TMC)

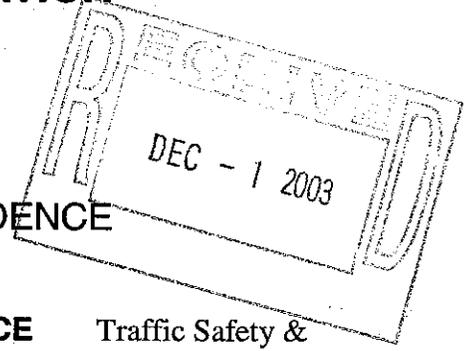
## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> STP-0005-00(652)		<b>County:</b> Cobb		<b>PI No.:</b> 0005652	
<b>Report Date:</b> November 26, 2003			<b>Concept By:</b> DOT Office: Traffic Safety and Design		
<input checked="" type="checkbox"/> Concept Stage			Consultant: N/A		
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input checked="" type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	100				
<b>Judgement</b>	100				
<b>Environmental</b>	100				
<b>Right of Way</b>	100				
<b>Utility</b>	100				
<b>Constructability</b>	100				
<b>Schedule</b>	100				

**DEPARTMENT OF TRANSPORTATION**

**STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**



**FILE** STP-0005-00(652) Cobb Co.  
P.I. 0005652  
Installation of Adaptive Signal Timing

**OFFICE** Traffic Safety &  
Design

**DATE** November 24, 2003

**FROM** *PMA/JET*  
Phillip M. Allen, State Traffic Safety and Design Engineer

**TO** Meg Pirkle, Assistant Director of Preconstruction

**SUBJECT** *Project Concept Report*

Attached is the original copy of the Concept Report, provided by Cobb County DOT, for your further handling for approval in accordance with the Plan Development Process (PDP).

If you have any questions, please contact the project manager, Jim Tolson at 404-635-8139.

PMA:JET

Attachments

- Cc: David Mulling, Project Review Engineer, w/attachment  
Harvey Keeper, State Environment/Location Engineer, w/attachment  
Carla Holmes, State Traffic Operations Engineer, w/attachment  
Joe Palladi, State Transportation Planning Administrator, w/attachment  
Buddy Gratton, District Engineer – Chamblee, w/attachment  
Percy Middlebrooks, Financial Management Administrator, w/attachment

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## PROJECT CONCEPT REPORT

Project Number: STP-0005-00(652), ITS Enhancement, Phase 3

County: Cobb

P.I. Number: 0005652

Federal Route Number: N/A

State Route Number: N/A

Project Description: Installation of an adaptive traffic signal timing system for <sup>69</sup>~~70~~ traffic signals in Cobb County. 12/11/03

### Recommendation for approval:

DATE 11/25/03

James E. Tolson  
Project Manager

DATE 11/26/03

Phillip M. Alkve

State Traffic Safety and Design Engineer

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

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Planning Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Financial Management Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Environmental / Location Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
District Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
Project Review Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Traffic Operations Engineer

**PROJECT LOCATION LIST:**

1. ATLANTA ROAD AT RIDGE/ JANE LYLE ROAD
2. ATLANTA ROAD AT PACES FERRY ROAD
3. PACES FERRY ROAD AT SPRING HILL ROAD
4. PACES FERRY ROAD AT SPRING HILL PARKWAY
5. PACES FERRY ROAD AT HOME DEPOT CORPORATION
6. PACES FERRY ROAD AT I-285 SOUTHBOUND
7. PACES FERRY ROAD AT I-285 NORTHBOUND
8. PACES FERRY ROAD AT CUMBERLAND PARKWAY
9. PACES FERRY ROAD AT BOULEVARD HILLS
10. PACES FERRY ROAD AT OVERLOOK PARKWAY
11. PACES FERRY ROAD AT NEW PACES FERRY ROAD
12. PACES FERRY ROAD AT PACES MILL ROAD
13. CUMBERLAND PARKWAY AT HOME DEPOT/PUBLIX
14. CUMBERLAND PARKWAY AT MOUNT WILKINSON
15. CUMBERLAND PARKWAY AT POST CREST APARTMENTS
16. POWERS FERRY ROAD AT DELK ROAD
17. POWERS FERRY ROAD AT TERRELL MILL ROAD
18. POWERS FERRY ROAD AT FIRE STATION NO. 19
19. POWERS FERRY ROAD AT WILDWOOD PARKWAY
20. POWERS FERRY ROAD AT WINDY HILL ROAD
21. POWERS FERRY ROAD AT PARKWOOD CIRCLE
22. POWERS FERRY ROAD AT WINDY RIDGE PARKWAY
23. POWERS FERRY ROAD AT SHADOWOOD PARKWAY
24. POWERS FERRY ROAD AT SHADOWOOD OFFICE
25. POWERS FERRY ROAD AT INTERSTATE NORTH PARKWAY
26. POWERS FERRY ROAD AT AKERS MILL ROAD
27. WINDY RIDGE PARKWAY AT CIRCLE 75
28. WINDY RIDGE PARKWAY AT INTERSTATE NORTH PARKWAY
29. WINDY RIDGE PARKWAY AT INTERSTATE NORTH CIRCLE
30. WINDY RIDGE PARKWAY AT PARKWOOD CIRCLE
31. WINDY HILL ROAD AT SPECTRUM ROAD
32. WINDY HILL ROAD AT LELAND ROAD
33. WINDY HILL ROAD AT I-75 NORTHBOUND
34. WINDY HILL ROAD AT I-75 SOUTHBOUND
35. WINDY HILL ROAD AT SOUTH PARK PLACE
36. WINDY HILL ROAD AT NORTH PARK PLACE
37. WINDY HILL ROAD AT WINDY HILL VILLAGE
38. COBB PARKWAY AT TARGET/LAKE PARK DRIVE
39. COBB PARKWAY AT CIRCUIT CITY
40. COBB PARKWAY AT LOEHMANN'S PLAZA
41. COBB PARKWAY AT HARGROVE/HERODIAN ROAD
42. COBB PARKWAY AT WINDY RIDGE/CUMBERLAND BOULEVARD
43. COBB PARKWAY AT SPRING/CIRCLE 75
44. COBB PARKWAY AT I-285 SOUTHBOUND
45. COBB PARKWAY AT I-285 NORTHBOUND

Project Concept Report page 3  
Project Number: STP-0005-00(652)  
P.I. Number: 0005652  
County: Cobb

**PROJECT LOCATION LIST CONTINUED:**

46. COBB PARKWAY AT GALLERIA DRIVE NORTH
47. COBB PARKWAY AT GALLERIA DRIVE SOUTH
48. COBB PARKWAY AT AKERS MILL ROAD
49. COBB PARKWAY AT RIVERWOOD PARKWAY
50. COBB PARKWAY AT PARKWOOD POINTE
51. COBB PARKWAY AT CUMBERLAND BOULEVARD
52. COBB PARKWAY AT PACES MILL ROAD
53. CUMBERLAND BOULEVARD AT DOC'S RESTAURANT
54. CUMBERLAND BOULEVARD AT POST WOODS APARTMENT
55. CUMBERLAND BOULEVARD AT COBB GALLERIA PARKWAY
56. CUMBERLAND BOULEVARD AT I-75 SOUTHBOUND
57. CUMBERLAND BOULEVARD AT I-75 NORTHBOUND
58. CUMBERLAND BOULEVARD AT OVERTON PARK DRIVE
59. CUMBERLAND BOULEVARD AT AKERS MILL ROAD
60. CUMBERLAND BOULEVARD AT CUMBERLAND PARKWAY
61. CUMBERLAND BOULEVARD AT CUMBERLAND MALL DRIVE
62. CUMBERLAND BOULEVARD AT AKERS MILL ROAD
63. CUBMERLAND BOULEVARD AT RIVERWOOD PARKWAY
64. CUBMERLAND BOULEVARD AT CITY VIEW
65. AKERS MILL ROAD AT OVERTON PARK DRIVE
66. AKERS MILL ROAD AT I-75 HOV SB/NB
67. AKERS MILL ROAD AT COBB GALLERIA PARKWAY
68. AKERS MILL ROAD AT GALLERIA DRIVE
69. COBB GALLERIA DRIVE AT RIVERWOOD PARKWAY

Project Concept Report page 4  
Project Number: STP-0005-00(652)  
P.I. Number: 0005652  
County: Cobb

**Need and Purpose:** The purpose of this project is to improve the operation of Paces Ferry Road, Cobb Parkway, Akers Mill, Cumberland Parkway, Powers Ferry Road, Windy Hill Road and Windy Ridge Parkway.

**Project Description:** This project will install an adaptive traffic signal timing system in <sup>69</sup> ~~70~~ traffic signals within the Cumberland CID area. The installation of video detection and replacement of traffic signal cabinets and controllers is also included. *del 12/11/03*

**Non-Attainment Area:** N/A

**PDP Classification:** N/A

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

**Functional Classification:** N/A

**U.S. Route Numbers:** U.S. 41/Cobb Parkway      **State Route Numbers:** S.R. 3/Cobb Parkway

**Traffic (AADT):**

Current Year: (20XX) N/A Design Year: (20YY) N/A

**Existing Design Features:**

Typical Section: N/A  
Posted Speed Limit: N/A      Maximum Degree of Curvature: N/A  
Maximum Grade: N/A  
Width of Right of Way: N/A  
Major Structures: N/A  
Major Interchanges: I-285 at Cobb Parkway and I-285 at Paces Ferry Road  
Existing Length of Roadway: N/A

**Proposed Design Features:**

Proposed Typical Section: N/A  
Proposed Design Speed: N/A  
Proposed Maximum Grade Mainline: N/A  
Proposed Maximum Grade Side Street: N/A  
Proposed Maximum Grade Driveway: N/A  
Proposed Maximum Degree of Curvature: N/A  
Right of Way:  
Width: N/A  
Easements: N/A  
Type of Access Control: N/A  
Number of Parcels: N/A      Number of Displacements: N/A  
Major Structures: N/A  
Major Interchanges: I-285 at Cobb Parkway and I-285 at Paces Ferry Road  
Traffic Control during construction: Maintain on existing roadway

Project Concept Report page 5  
Project Number: STP-0005-00(652)  
P.I. Number: 0005652  
County: Cobb

Design Exceptions to controlling criteria anticipated: None  
Design Variances: None  
Environmental concerns: None  
Level of Environmental analysis: N/A  
Utility involvements: N/A

**Project Responsibilities:**

Design: Cobb County  
Right of Way Acquisitions: None  
Relocation of Utilities: None  
Letting to Contract: Cobb County  
Supervision of construction: Cobb County  
Providing material pits: None  
Providing detours: None

**Attachments:** Cost Estimate

Project Concept Report page 6  
 Project Number: STP-0005-00(652)  
 P.I. Number: 0005652  
 County: Cobb

**PRELIMINARY COST ESTIMATE**

PROJECT NUMBER: STP-0005-00(652)  
 DATE: 11-12-03

PREPARED BY: COBB COUNTY  
 DEPARTMENT OF TRANSPORTATION

( )PROGRAMMING PROCESS (X)CONCEPT DEVELOPMENT ( )DURING PROJECT DEV.

<b>PROJECT COST</b>	
<b>A. RIGHT-TO-WAY:</b>	
1. PROPERTY (LAND & EASEMENT 0.0ac @ \$0.00 )	\$0.00
2. DISPLACEMENTS; RES: , BUS; , M.H.:	\$0.00
3. OTHER COST (ADM./COST, INFLATION)	\$0.00
SUBTOTAL:A	<b>\$0.00</b>
<b>B. REIMBURSABLE UTILITIES:</b>	
1. RAILROAD	\$0.00
2. TRANSMISSION LINES	\$0.00
3. SERVICES	\$0.00
SUBTOTAL:B	<b>\$0.00</b>
<b>C. CONSTRUCTION:</b>	
1. MAJOR STRUCTURES	\$0.00
a. OVERPASSES	\$0.00
b. OTHER	\$0.00
SUBTOTAL:C-1	<b>\$0.00</b>
2. GRADING AND DRAINAGE:	
a. EARTHWORK	\$0.00
b. STORMWATER DRAINAGE:	
1) Pipe ( 238 LF @ \$45/LF)	\$0.00
2) Headwall (2 @ \$1,000/headwall)	\$0.00
3) Storm Structures (2 @ \$1,250/each)	\$0.00
SUBTOTAL:C-2	<b>\$0.00</b>
<b>3. BASE AND PAVING:</b>	

Project Concept Report page 7  
 Project Number: STP-0005-00(652)  
 P.I. Number: 0005652  
 County: Cobb

<b>PROJECT COST</b>		
a. AGGREGATE BASE		\$0.00
b. ASPHALT PAVING:	\$0.00	
Binder	\$0.00	
Base	\$0.00	
SUBTOTAL:C-3.b		\$0.00
c. CONCRETE PAVING		\$0.00
d. OTHER		\$0.00
SUBTOTAL:C-3		<b>\$0.00</b>
4. LUMP ITEMS:		
a. GRASSING		\$0.00
b. SAW CUT PAVEMENT		\$0.00
c. LANDSCAPING		\$0.00
d. EROSION CONTROL		\$0.00
e. TRAFFIC CONTROL		\$0.00
SUBTOTAL:C-4		<b>\$0.00</b>
5. SIGNAL INSTALLATION		
a. VIDEO DETECTION MATERIAL AND INSTALLATION		\$2,115,000.00
b. TRAFFIC SIGNAL CABINET INSTALLATION		\$35,000.00
c. ADAPTIVE TRAFFIC SIGNAL TIMING SOFTWARE		\$950,000.00
SUBTOTAL: C-5		<b>\$3,100,000.00</b>
6. MISCELLANEOUS:		
a. LIGHTING ( )		\$0.00
b. SIGNING - MARKING		\$0.00
c. GUARDRAIL		\$0.00
d. SIDEWALK		\$0.00
SUBTOTAL:C-6		<b>\$0.00</b>

Project Concept Report page 8  
 Project Number: STP-0005-00(652)  
 P.I. Number: 0005652  
 County: Cobb

PROJECT COST	
7. SPECIAL FEATURES	NONE
SUBTOTAL:C-7	
	\$0.00

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY ( )	\$0.00
B. REIMBURSABLE UTILITIES	\$0.00
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$0.00
2. GRADING AND DRAINAGE	\$0.00
3. BASE AND PAVING	\$0.00
4. LUMP ITEMS	\$0.00
5. SIGNAL INSTALLATIONS	\$3,100,000.00
6. MISCELLANEOUS ITEMS	\$0.00
7. SPECIAL FEATURES	\$0.00
SUBTOTAL CONSTRUCTION COST	\$0.00
E. & C. (10%)	\$0.00
INFLATION (5% PER YEAR)	\$0.00
NUMBER OF YEARS	
TOTAL CONSTRUCTION COST	<b>\$ 3,100,000.00</b>
<b>GRAND TOTAL PROJECT COST</b>	<b>\$ 3,100,000.00</b>

This project is 100% in District 7, Cobb County

Concur:

\_\_\_\_\_  
 Director of Preconstruction

Approve:

\_\_\_\_\_  
 Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT**

Project Number: STP-0005-00(652), ITS Enhancement, Phase 3  
County: Cobb  
P.I. Number: 0005652

Federal Route Number: N/A  
State Route Number: N/A

**Project Description:** Installation of an adaptive traffic signal timing system for <sup>69</sup>~~70~~ traffic signals in Cobb County.

**Recommendation for approval:**

DATE 11/25/03

James E. Tolson  
Project Manager

DATE 11/26/03

Phillip M. Allen  
State Traffic Safety and Design Engineer

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

12/0/03  
DATE

Joseph P. Malachuk  
State Transportation Planning Administrator

DATE

State Transportation Financial Management Administrator

DATE

State Environmental / Location Engineer

DATE

District Engineer

DATE

Project Review Engineer

DATE

State Traffic Operations Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: STP-0005-00(652), ITS Enhancement, Phase 3  
County: Cobb  
P.I. Number: 0005652

Federal Route Number: N/A  
State Route Number: N/A

Project Description: Installation of an adaptive traffic signal timing system for <sup>69</sup>~~70~~ traffic signals in Cobb County.

Recommendation for approval:

DATE 11/25/03

James E. Tolson  
Project Manager

DATE 11/26/03

Phillip M. Allen  
State Traffic Safety and Design Engineer

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

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Planning Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Financial Management Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Environmental / Location Engineer

12/19/03  
DATE

Buddy S. ...  
District Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
Project Review Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Traffic Operations Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT**

Project Number: STP-0005-00(652), ITS Enhancement, Phase 3  
County: Cobb  
P.I. Number: 0005652

Federal Route Number: N/A  
State Route Number: N/A

Project Description: Installation of an adaptive traffic signal timing system for <sup>69</sup>~~70~~ traffic signals in Cobb County. <sub>1000</sub>

**Recommendation for approval:**

DATE 11/25/03 James E. Tolson  
Project Manager

DATE 11/26/03 Phillip M. Allen  
State Traffic Safety and Design Engineer

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

<u>DATE</u>	<u>State Transportation Planning Administrator</u>
<u>DATE</u>	<u>State Transportation Financial Management Administrator</u>
<u>DATE</u>	<u>State Environmental / Location Engineer</u>
<u>DATE</u>	<u>District Engineer</u>
<u>12-1-03</u> <u>DATE</u>	<u>David J. Mulligan</u> Project Review Engineer
<u>DATE</u>	<u>State Traffic Operations Engineer</u>

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: STP-0005-00(652), ITS Enhancement, Phase 3  
County: Cobb  
P.I. Number: 0005652

Federal Route Number: N/A  
State Route Number: N/A

Project Description: Installation of an adaptive traffic signal timing system for 70 traffic signals in Cobb County.

69  
JEP

Recommendation for approval:

DATE 11/25/03

James E. Tolson  
Project Manager

DATE 11/26/03

Phillip M. Allen, Jr.  
State Traffic Safety and Design Engineer

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

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Planning Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Financial Management Administrator

12.10.03  
DATE

Thomas D. [Signature]  
State Environmental / Location Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
District Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
Project Review Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Traffic Operations Engineer