

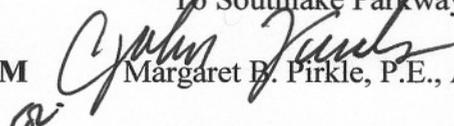
D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 751775-, Clayton County **OFFICE** Preconstruction  
STP-9108(5)  
Battle Creek Road from Valley Hill Road  
To Southlake Parkway **DATE** January 25, 2006

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

**TO** SEE DISTRIBUTION

**SUBJECT** **APPROVED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

MBP/cj

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Paul Liles  
Babs Abubakari  
Bryant Poole  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P.I. No. 751775-, Clayton County **OFFICE** Preconstruction  
 STP-9108(5)  
 Battle Creek Road from Valley Hill Road  
 To Southlake Parkway **DATE** January 20, 2006

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

**TO** David E. Studstill, Jr., P.E., Chief Engineer

**SUBJECT** PROJECT CONCEPT REPORT

This project is the widening and reconstruction of Battle Creek Road (CR 1342) from Valley Hill Road to Southlake Parkway for a total of 2.11 miles. This project will improve the level of service (LOS) along the roadway by adding additional through lanes along Battle Creek Road as well as adding additional turn lanes at major intersections. The proposed improvements will allow each major intersection within the project limits to operate at an acceptable LOS. Based year (2011) traffic volumes are 15,400 VPD along Battle Creek Road and future design year (2031) volumes are projected to be 22,900 VPD.

The construction consists of widening Battle Creek Road/CR 1342 from the existing two lane facility to four, 12' lanes with a 20' raised median and urban shoulders consisting of 2.5' curb and gutter, 6' grassed strip and 5' sidewalks. The intersection of Battle Creek Road and Valley Hill Road will be realigned to provide an east-west thru movement from eastbound Valley Hill Road to eastbound Battle Creek Road. Temporary on-site detour pavement will be utilized at various locations to facilitate vertical reconstruction of Battle Creek Road.

Environmental concerns include requiring a COE 404 Permit; an Environmental Assessment is anticipated; a public hearing open house will be held; time saving procedures are not appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$9,147,000	\$9,147,000	L230	2009
Right-of-Way & Utilities*	Local	Local	Local	

\*Clayton County signed PMA for PE, right-of-way, and utilities 2-19-02.

David Studstill

Page 2

P. I. No. 751775-, Clayton

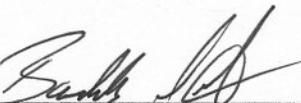
January 20, 2006

I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR

  
\_\_\_\_\_

Buddy Gratton, P.E., Director of Preconstruction

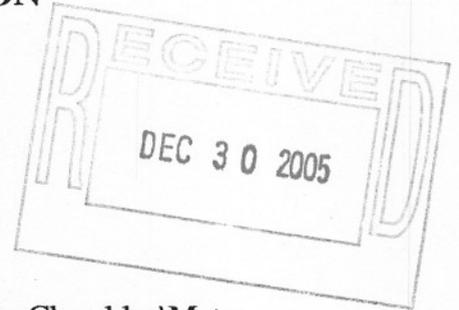
APPROVE

  
\_\_\_\_\_

David E. Studstill, Jr., P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**



**FILE** STP-9108(5)  
Clayton County  
Battlecreek Road from Valley Hill Rd  
to Southlake Parkway  
P.I. 751775-

**OFFICE:** Chamblee\Metro

**DATE:** December 23, 2005

**FROM:** Bryant Poole, District Engineer <sup>MPR</sup>

**TO:** Margaret B. Pirkle, Assistant Director of Preconstruction

**SUBJECT: PROJECT CONCEPT REPORT**

Attached is the original copy of the concept report for your further handling for approval in accordance with the PDP.

If you have any questions in regards to this concept, please contact Merishia Robinson or Gerald Ford at (404) 463-4947.

BPMAL\mkr

cc: Joe Palladi  
Jamie Simpson  
Harvey Keepler  
Keith Golden  
Brian Summers  
Paul Liles  
File

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*District 7 Preconstruction*

**WIDENING OF BATTLE CREEK ROAD**

**PROJECT CONCEPT REPORT**

Project Number: STP-9108(5)

County: CLAYTON

P. I. Number: 751775

Federal Route Number: N/A

State Route Number: N/A

County Route Number: 1342

SEE PAGE 2 FOR LOCATION SKETCH

Recommendation for approval:

DATE 12/22/05

Neil Allen  
Project Manager

DATE 12/23/05

Byron Hood  
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 the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

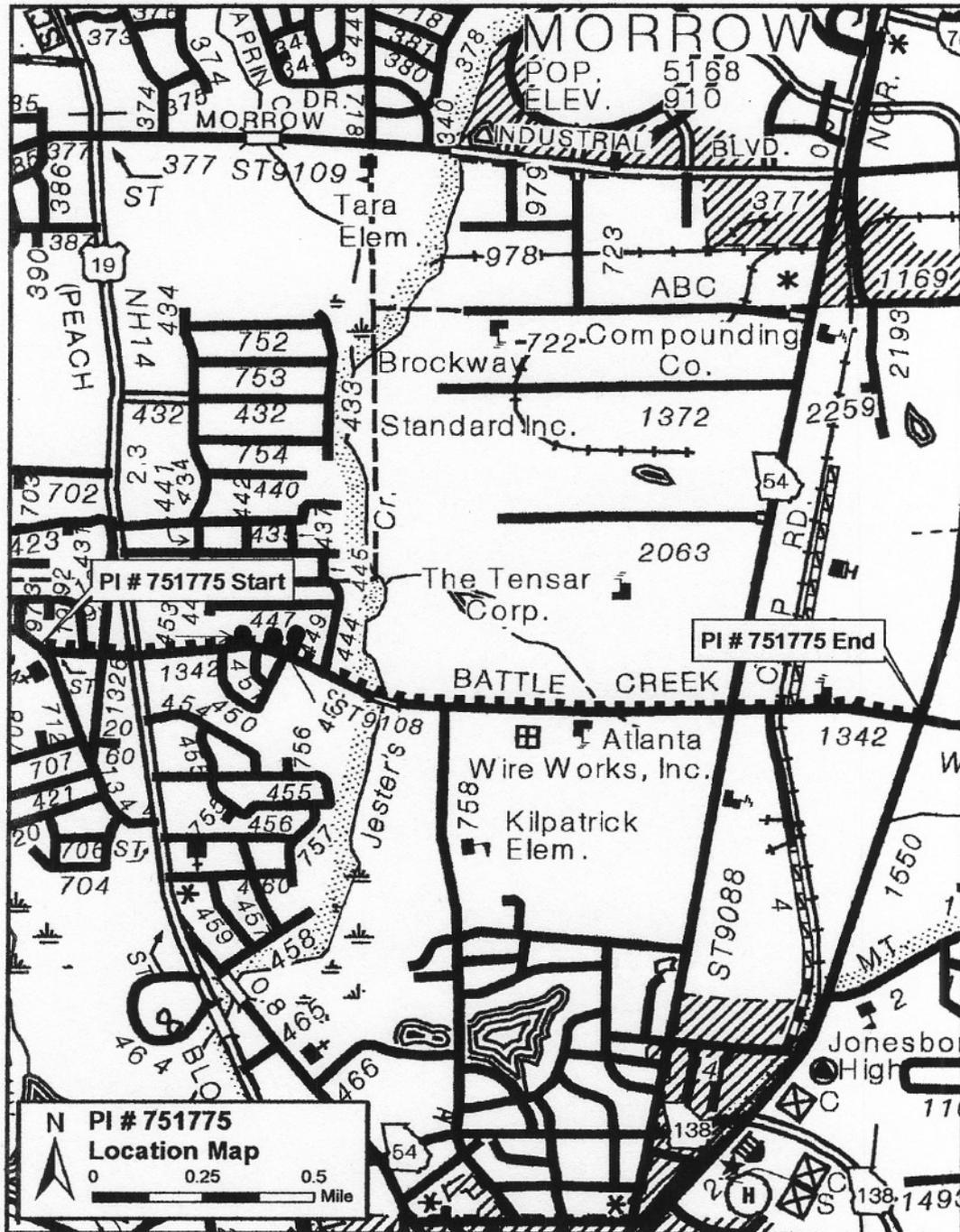
\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge and Structural Design Engineer



**Location Map**

**Project:** STP-9108(5) Clayton County PI No: 751775

**Description:** Widening of Battle Creek Road from Valley Hill Road to Southlake Parkway.

**Need and Purpose:** Project STP-9108(5) consists of widening Battle Creek Road (CR 1342) in Clayton County from the existing two and four lane facility to four lanes with 20-foot raised median and urban curb and gutter, beginning at Valley Hill Road and ending at Southlake Parkway. Battle Creek Road is classified as an urban collector.

Base year 2011 traffic volumes are approximately 15,400 Vehicles per Day (VPD) along Battle Creek Road and future design year 2031 volumes are expected to be approximately 22,900 VPD.

Project STP-9108(5) will improve the Level of Service (LOS) along the roadway by adding additional through lanes along Battle Creek Road, as well as adding additional turn lanes at major intersections. The proposed improvements will allow each major intersection within the project limits to operate at the design year LOS as shown in the attached traffic analysis summary.

Project STP-9108(5) will also improve vertical sight distance and provide for additional turn lanes and signal upgrades at intersections. Accident rates at each major intersection along Battle Creek Road are shown in the attached traffic analysis summary.

Furthermore, central Clayton County is a heavily developed area consisting of a mix of commercial, residential and industrial land uses with a need for improved east-west connectivity. The project will serve this need by reconfiguring the intersection of Battle Creek Road and Valley Hill Road to provide an east-west through movement. There are also three other projects in the immediate vicinity which will combine with this project to create a major east-west thoroughfare in central Clayton County. These projects are the widening of Valley Hill Road from Upper Riverdale Road to Battle Creek Road (Clayton County Project), the widening of Battle Creek Road and Mt. Zion Boulevard from Southlake Parkway to Somerton Drive (GDOT P.I. No 751770) and the widening Mt. Zion Boulevard from Somerton Drive to Rex Road (Clayton County Project).

Also, existing Battle Creek Road currently has intermittent pedestrian facilities along the project corridor. Project STP-9108(5) will improve pedestrian facilities within the project limits by providing for an urban section with curb and gutter and 5-foot sidewalks.

Project Concept Report Page 4  
Project Number: STP-9108(5)  
P. I. Number: 751775  
County: Clayton

**Description of the proposed project:** Project STP-9108(5) consists of widening Battle Creek Road (CR 1342) from the existing two lane facility to four 12-foot lanes with a 20-foot raised median and urban shoulders consisting of 2.5-foot curb and gutter, 6-foot grassed strip and 5-foot sidewalks. The project begins 475 ft west of the intersection of Valley Hill Road and Battle Creek Road (M.P. 0.00) and continues to the intersection of Battle Creek Road and Southlake Parkway. (M.P. 2.02) The intersection of Battle Creek Road and Valley Hill Road will be realigned to provide an east-west through movement from eastbound Valley Hill Road to eastbound Battle Creek Road. The total project length is approximately 11150 feet (2.11 miles)

**Is the project located in a Non-attainment area?**  Yes  No.

The proposed concept calls for four through lanes with a 20-foot raised median. The project begins 475 ft west of the intersection of Battle Creek Road and Valley Hill Road (M.P. 0.00) and continues to the intersection of Battle Creek Road and Southlake Parkway. (M.P. 2.02) The total project length is 2.11 miles and the opening year is 2011.

The conforming plan describes the project beginning just west of the Valley Hill Road/Battle Creek Road intersection and continuing along Battle Creek Road for 2.03 miles to Southlake Parkway. The plan calls for four through lanes with a total project length of 2.03 miles and an opening year of 2011.

**PDP Classification:** Major (X) Minor ( )

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

**Functional Classification:** Urban Collector Street

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

**State Route Number(s):** None

**County Route Number(s):** 1342

**Traffic (ADT):**

Current Year: (2005): 13,632

Design Year: (2031): 22,890

**Existing design features:**

- Typical Section: Battle Creek Road consists of one travel lane in each direction with variable width rural grassed shoulders.
- Posted speed 40 mph Minimum Curve Radius: 730'
- Maximum grade: 6% mainline, 8.5% side roads, 17% driveways
- Width of right of way: Varies 80-175 ft.
- Major structures: 108-foot long by 84-foot wide reinforced concrete bridge on Battle Creek Road over Jesters Creek; Sufficiency Rating: 68.77
- Major intersections along the project: Battle Creek Road at: Valley Hill Road; Tara Boulevard/US 19/41; Jonesboro Road/SR 54; Southlake Parkway.
- Existing length of roadway segments:
  - o Battle Creek Road: 2.11 Miles beginning at M.P. 0.00

**Proposed Design Features:**

- Proposed typical section(s): Four 12-foot travel lanes (two in each direction) separated by a 20-foot raised median with curb and gutter and 16-foot urban shoulders consisting of 2.5-foot curb and gutter, 6-foot grassed strip and 5-foot sidewalk.
- Proposed Design Speed Mainline 45 mph
- Proposed Maximum grade Mainline 6% Maximum grade allowable 9%.
- Proposed Maximum grade Side Street 11% Maximum grade allowable 15%.
- Proposed Maximum grade driveway 11%
- Proposed Minimum Curve Radius 730'. Minimum Radius Allowable 643'.
- Right of way
  - o Width Varies 120-175'.
  - o Easements: Temporary (X), Permanent (X), Utility ( ), Other ( ).
  - o Type of access control: Full ( ), Partial ( ), By Permit (X), Other ( ).
  - o Number of parcels: 65 Number of displacements:
    - o Business: 1
    - o Residences: 2
    - o Mobile homes: None
    - o Other: None
- Structures:
  - o Bridges: The existing bridge on Battle Creek Road over Jesters Creek will be rehabilitated to improve load rating and allow for the removal of the existing load posting.
  - o Retaining walls: Gravity walls may be utilized at various locations throughout the project to minimize impacts to adjacent properties.
- Major intersections: Battle Creek Road at: Valley Hill Road; Tara Boulevard/US 19/41; Jonesboro Road/SR 54; Southlake Parkway.

- Traffic control during construction:
  - The intersection of Battle Creek Road and Valley Hill Road will be closed to through traffic during construction. Traffic will be routed on an off-site detour utilizing Tara Boulevard, Upper Riverdale Road, Lamar Hutcheson Parkway and Valley Hill Road.
  - Tara Road will be closed to traffic at Battle Creek Road during construction. Traffic will be routed on an off-site detour utilizing O'Hara Drive and Jonesboro Road.
  - Temporary on-site detour pavement will be utilized at various locations in order to facilitate vertical reconstruction of Battle Creek Road.

- 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:
  - Design variances will be required at various median openings along the project for substandard left turn storage length due to the spacing of median openings. These locations include the median openings on Battle Creek Road at Tara Road and Clayton County Fire Station No. 3.
- Environmental concerns:
  - It is anticipated that an Individual Permit will be required for impacts to the two streams (Jesters Creek and Jesters Creek Tributary) on the project corridor. There are three USTs along the project corridor, one of which is considered a LUST. At this time, it is not known how many of these UST's will be impacted by the project. A finding of No Historic Properties Affected is expected for the history and archaeology studies.
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ( ), No (X),
  - Categorical exclusion ( ),
  - Environmental Assessment/Finding of No Significant Impact(FONSI):  
**Anticipated**
  - Environmental Impact Statement (EIS) ( ).

- Utility involvements:
  - Utility facilities located within the project limits include natural gas, phone, power, cable TV, Clayton County ITS systems, and water/sewer.

**Project responsibilities:**

- Design: Clayton County
- Right of Way Acquisition: Clayton County
- Relocation of Utilities: Clayton County
- Letting to contract: GDOT Office of Contract Administration
- Supervision of construction: GDOT Construction
- Providing material pits: Responsibility of the Construction Contractor
- Providing detours: Clayton County; Construction Contractor to complete detours as shown in final plans.

**Coordination**

- Initial Concept Meeting 4/11/2005: See attached minutes.
- Concept Team Meeting 11/10/2005: See attached minutes.
- P. A. R. meetings, dates and results: None Required
- FEMA, USCG, and/or TVA:
- Public involvement. A Public Information Open House was held on June 7, 2005 at Jonesboro High School in Jonesboro, GA. 109 people attended the PIOH and a total of 51 comments were received. Of these comments, 5 were opposed to the project, 16 were in support of the project, 7 were uncommitted and 23 were conditional.
- Local government comments: See attached Concept Team Meeting Minutes
- Other projects in the area:
  - STP-9108(4) Widening of Battle Creek Road from Southlake Parkway to Mt. Zion Boulevard and Widening of Mt. Zion Boulevard from Battle Creek Road to Somerton Drive.
  - Clayton County Project: Widening of Valley Hill Road from Upper Riverdale Road to Battle Creek Road.
- Other coordination to date: N/A

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: 18 Months.
- Time to complete preliminary construction plans: 10 Months.
- Time to complete right of way plans: 5 Months.
- Time to complete the Section 404 Permit: 8 Months.
- Time to complete final construction plans: 5 Months.
- Time to purchase right of way: 25 Months.

**Other alternates considered:** (1) Widen Battle Creek Road to four lanes, reconstruct the Valley Hill Road/Battle Creek Road intersection to provide a through movement from eastbound Valley Hill Road to eastbound Battle Creek Road and rehabilitate the westbound section of the existing bridge over Jesters Creek to improve the bridge load rating. (2) Widen Battle Creek Road to four lanes, reconstruct the Valley Hill Road/Battle Creek Road intersection to provide a through movement from eastbound Valley Hill Road to eastbound Battle Creek Road and replace the existing westbound section of the bridge over Jesters Creek with a new bridge. (3) Widen Battle Creek Road to four lanes and allow the Valley Hill Road/Battle Creek Road intersection in its current configuration. (4) No Build.

**Comments:**

**Comparison Summary of Alternates 1-4**

Alternate (1) is recommended for this concept. The proposed four lane section is necessary to provide adequate level of service throughout the Battle Creek Corridor under design year 2031 traffic conditions. A bridge condition survey conducted by the Office of Maintenance concluded that the existing bridge should be reinforced with external carbon fiber stirrups at the ends of the existing T-beams.

Alternate (2) is not recommended for this concept. A bridge condition survey conducted by the Office of Maintenance concluded that the existing bridge be reinforced with external carbon fiber stirrups at the ends of the existing T-beams.

Alternate (3) is not recommended for this concept. Projections in the traffic capacity report indicate that the major movement at this intersection is from eastbound Valley Hill Road to eastbound Battle Creek Road. Leaving the Valley Hill Road/Battle Creek Road intersection in its current configuration does not allow the movement to operate as a through movement, which would result in a lower level of service than if the intersection were reconstructed as recommended in Alternate (1).

Alternate (4) is not recommended for this concept. Projections in the traffic capacity report indicate that the current two lane facility along Battle Creek Road will fail under future traffic conditions, thus providing an unacceptable level of service along the roadway.

Project Concept Report Page 9  
Project Number: STP-9108(5)  
P. I. Number: 751775  
County: Clayton

**Attachments:**

1. Cost Estimates:
  - a. Construction including E&C,
  - b. Right of Way, and
  - c. Utilities.
2. Typical Sections
3. Bridge Inventory
4. Conforming plan's network schematics showing through lanes
5. Initial Concept Team Meeting Minutes 4/11/05
6. Concept Team Meeting Minutes 11/10/05
7. Summary of Traffic Analysis

Erosion Mat	9000 SY @	\$2	\$18,000
Baled Straw	1000 LF @	\$2	\$2,000
Ty 3 Silt Gates	23 EA @	\$350	\$8,050
Sediment Basins	2 EA @	\$7,000	\$14,000
e. TRAFFIC CONTROL	LS		\$200,000
f. ITS DEVICES	LS		\$408,975
g. TRAFFIC SIGNAL INSTALLATION	4 EA @	\$75,000	\$300,000
	<b>SUBTOTAL:C-4</b>		<b>\$1,051,525</b>
<b>5. MISCELLANEOUS</b>			
a. LIGHTING			
b. SIGNING - MARKING			
Solid Traff Stripe, 5 IN, White	45000 LF @	\$0.30	\$13,500
Solid Traff Stripe, 5 IN, Yellow	15000 LF @	\$0.30	\$4,500
Skip Traff Stripe, 5 IN, White	25000 GLF @	\$0.20	\$5,000
Higway Signs, TP 6 Sheeting	750 SF @	\$18	\$13,500
Galv Steel Posts, TP 7	1000 LF @	\$8	\$8,000
Raised Pvmnt Markers	300 EA @	\$3	\$900
c. GUARDRAIL			
W Beam	2000 LF @	\$15	\$30,000
T Beam	84 LF @	\$30	\$2,520
Ty 12 Ancors	5 EA @	\$1,300	\$6,500
Ty 1 Ancors	5 EA @	\$440	\$2,200
d. CURB AND GUTTER			
Curb and Gutter TP 2	30000 LF @	\$16	\$480,000
Curb and Gutter TP 7	20000 LF @	\$10	\$200,000
	<b>SUBTOTAL:C-5</b>		<b>\$766,620</b>
<b>6. SPECIAL FEATURES</b>			
1) FIELD ENGINEERS OFFICE TY 3			
			\$55,000
	<b>SUBTOTAL:C-6</b>		<b>\$55,000</b>

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		\$3,708,487
B. REIMBURSABLE UTILITIES		\$0
<b>C. CONSTRUCTION</b>		
1. MAJOR STRUCTURES		\$962,093
2. GRADING AND DRAINAGE		\$1,730,450
3. BASE AND PAVING		\$2,275,533
4. LUMP ITEMS		\$1,051,525
5. MISCELLANEOUS		\$766,620
6. SPECIAL FEATURES		\$55,000
<b>SUBTOTAL CONSTRUCTION COST</b>		<b>\$6,841,221</b>
INFLATION (5% PER YEAR)		\$1,474,326
NUMBER OF YEARS	4	
E. & C. (10%)		\$831,555
<b>TOTAL CONSTRUCTION COST</b>		<b>\$9,147,101</b>
<b>GRAND TOTAL PROJECT COST</b>		<b>\$12,855,588</b>



# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 063-0081-0

Clayton

SUFF. RATING

68.77

## Location & Geography

\* Structure I.D.No: 063-0081-0  
 200 Bridge Information 06  
 \* 6A Feature Int: JESTERS CREEK  
 \* 6B Critical Bridge: 0  
 \* 7A Route Number Carried: CR01342  
 \* 7B Facility Carried: BATTLE CREEK ROAD  
 \* 9 Location: 2 MI N OF JONESBORO  
 2 DOT District: 7  
 207 Year Photo: 2003  
 \* 91 Inspection Frequency: 24 Date: 05/29/2003  
 92A Fract Crit Insp Freq: 00 Date: 02/01/1901  
 92B Underwater Insp Freq: 00 Date: 02/01/1901  
 92C Other Spc. Insp Freq: 00 Date: 02/01/1901  
 \* 4 Place Code: 00000  
 \* 5 Inventory Route (O/U): 1  
 Type: 5  
 Designation: 1  
 Number: 09108  
 Direction: 0  
 \* 16 Latitude: 33-33.2 MMS Prefix:  
 \* 17 Longitude: 84-21.7 MMS Suffix: MP: 0.00  
 98 Border Bridge: 000 %Shared: 00  
 99 ID Number: 0000000000000000  
 \* 100 STRAHNET: 0  
 12 Base Highway Network: 1  
 13A LRS Inventory Route: 632134200  
 13B Sub Inventory Route: 0  
 \* 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 2  
 \* 264 Road Inventory Mile Post: 000.55  
 \* 208 Inspection Area: 03 Initials: WBP  
 Engineer's Initial: jal  
 \* Location I.D. No.: 063-09108M-000.83E

\* 104 Highway System: 0  
 \* 26 Functional Classification: 17  
 \* 204 Federal Route Type: M No.: 09108  
 105 Federal Lands Highway: 0  
 \* 110 Truck Route: 0  
 206 School Bus Route: 1  
 217 Benchmark Elevation: 0000.00  
 218 Datum: 0  
 \* 19 Bypass Length: 03  
 \* 20 Toll: 3  
 \* 21 Maintenance: 02  
 \* 22 Owner: 02  
 \* 31 Design Load: 2  
 37 Historical Significance: 5  
 205 Congressional District: 13  
 27 Year Constructed: 1964  
 106 Year Reconstructed: 1997  
 33 Bridge Median: 0  
 34 Skew: 00  
 35 Structure Flared: 0  
 38 Navigation Control: 0  
 213 Special Steel Design: 0  
 267 Type of Paint: 3  
 \* 42 Type of Service on: 1  
 5  
 214 Movable Bridge: 0  
 203 Type Bridge: E-N-O-O  
 259 Pile Encasement: 2  
 \* 43 Structure Type Main: 1 04  
 45 No. Spans Main: 003  
 44 Structure Type Appr: 0 00  
 46 No. Spans Appr: 0000  
 226 Bridge Curve Horz: 1 Vert: 0  
 111 Pier Protection: 0  
 107 Deck Structure Type: 1  
 108 Wearing Surface Type: 1  
 M: 0  
 F: 0

## Signs & Attachments

225 Expansion Joint Type: 02  
 242 Deck Drains: 1  
 243 Parapet Location: 3  
 Height: 2.20  
 Width: 1.10  
 238 Curb: 0.50 1  
 239 Handrail: 7 7  
 \* 240 Median Barrier Rail: 0  
 241 Bridge Median Height: 0.50  
 Width: 16.00  
 \* 230 Guardrail Loc Dir Rear: 2  
 Fwd: 2  
 Oppo Dir Rear: 0  
 Fwd: 0  
 244 Approach Slab: 3  
 224 Retaining Wall: 0  
 233 Posted Speed Limit: 40  
 236 Warning Sign: 0  
 234 Delineator: 1  
 235 Hazard Boards: 1  
 237 Utilities Gas: 21  
 W: 23  
 Ele: 00  
 Telephone: 00  
 Sc: 00  
 247 Lighting Street: 0  
 Navigaion: 0  
 Aerial: 0  
 \* 248 County Continuity No.: 00

**BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION**

Structure ID: 063-0081-0

Clayton

SUFF. RATING

68.77

**Programming Data**

201 Project No.: BHMLB-9188(3)01  
 202 Plans Available: 4  
 249 Prop. Proj. No. 0000000000000000  
 250 Approval Status: 7000  
 251 P.I. No.: 0000000  
 252 Contract Date: 01/28/1998  
 260 Seismic No.: 00000  
 75 Type Work: 00 0  
 94 Bridge Imp. Cost: \$ 0  
 95 Roadway Imp. Cost: \$ 0  
 96 Total Imp Cost: \$ 0  
 76 Imp. Length: 0  
 97 Imp. Year: 0000  
 114 Future ADT: 019200 Year: 2022

**Hydraulic Data**

215 Waterway Data  
 Highwater Elev.: 0000.0 Year: 1999  
 Avg. Streambed Elev.: 0000.0 Freq.: 00  
 Drainage Area: 00000  
 Area Of Opening: 000000  
 113 Scour Critical: U  
 216 Water Depth: 01.3 Br. Height: 15.7  
 222 Slope Protection: 1  
 221 Spur Dikes Rear: 0 Fwd: 0  
 219 Fender System: 0  
 220 Dolphin: 0  
 223 Culvert Cover: 000  
 Type: 0  
 No. Barrels: 0  
 Width: 0.00 Height: 0.00  
 Length: 0 Apron: 0  
 \* 265 U/W Insp. Area: 0 Diver: ZZZ  
 \* Location I.D. No.: 063-09108M-000.83E

**Measurements**

\* 29 ADT: 012800 Year: 2002  
 109 % Trucks: 2  
 \* 28 Lanes On: 02 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0034  
 \* 49 Structure Length: 102  
 51 Br. Rwdy. Width: 56.00  
 52 Deck Width: 86.20  
 \* 47 Tot. Horz. Cl: 28.00  
 50 Curb/Sdewlk Width: 6.00/6.00  
 32 Approach Rdwy Width: 048  
 \* 229 Shoulder Width:  
 Rear Lt: 5.00 Type: 8 Rt: 5.00  
 Fwd Lt: 5.00 Type: 8 Rt: 5.00  
 Pavement Width:  
 Rear: 24.00 Type: 2  
 Fwd: 24.00 Type: 2  
 Intersection Rear: 1 Fwd: 1  
 36 Safety Features Br. Rail: 1  
 Transition: 1  
 App. G. Rail: 1  
 App. Rail End: 1  
 53 Minimum Cl. Over: 99 ' 99 "  
 Under: N 00 ' 00 "  
 \* 228 Min. Vertical Cl  
 Act. Odm Dir: 99 ' 99 "  
 Oppo. Dir: 99 ' 99 "  
 Posted Odm. Dir: 00 ' 00 "  
 Oppo. Dir: 00 ' 00 "  
 55 Lateral Undercl. Rt: N 99.90  
 56 Lateral Undercl. Lt: 0.00  
 \* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0  
 39 Nav Vert Cl: 000 Horz: 0000  
 116 Nav Vert Cl Closed: 000  
 245 Deck Thickness Main: 6.00  
 Deck Thick Approach: 0.00  
 246 Overlay Thickness: 0.00  
 212 Year Last Painted: Sup: 0000 Sub: 1998

**Ratings**

65 Inventory Rating Method: 1  
 63 Inventory Rating Method: 1  
 66 Inventory Type: 2 Rating: 17  
 64 Operating Type: 2 Rating: 28  
 231 Calculated Loads  
 H-Modified: 15 1  
 HS-Modified: 19 0  
 Type 3: 15 1  
 Type 3s2: 25 0  
 Timber: 22 1  
 Piggyback: 00 0  
 261 H Inventory Rating: 13  
 262 H Operating Rating: 21  
 67 Structural Evaluation: 2  
 58 Deck Condition: 7  
 59 Superstructure Condition: 7  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 7  
 60B Scour Condition: 8  
 60C Underwater Condition: N  
 71 Waterway Adequacy: 9  
 61 Channel Protection Cond: 8  
 68 Deck Geometry: 9  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 8  
 62 Culvert: N  
**Posting Data**  
 70 Bridge Posting Required: 2  
 41 Struct Open, Posted, Cl: P  
 \* 103 Temporary Structure: 0  
 232 Posted Loads H-Modified: 15  
 HS-Modified: 00  
 Type 3: 15  
 Type3s2: 00  
 Timber: 22  
 Piggyback: 00  
 253 Notification Date 02/01/1901  
 253 Fed Notify Date: 02/01/1901 0



## MINUTES OF MEETING

Project: STP-9108(4&5), P.I. No. 751770, 751775, Widening of Battle Creek Road/Mt. Zion Boulevard, Clayton County

Date: April 11, 2005

Attendees:	Mike Lobdell	GDOT District 7 Preconstruction
	Scott Lee	GDOT District 7 Preconstruction
	Gerald Ford	GDOT District 7 Preconstruction
	Marshall Troup	GDOT District 7 Preconstruction
	Gary Newton	Kimley-Horn and Associates, Inc. (KHA)
	Sean Johnston	Kimley-Horn and Associates, Inc. (KHA)

This meeting was held in the GDOT District 7 Preconstruction conference room to discuss the level of required public involvement and to determine a preliminary schedule for public meetings. Some project design issues were also discussed.

1. Gary Newton began by stating that the intent of the meeting was to determine when a public meeting would be held, what kind of format would be required, and what information would need to be presented to the public. Gary said that KHA's mapping sub-consultant had completed the digital ortho photography, but no other mapping is currently available.
2. Gary presented a conceptual layout, and described some of the areas of concern along the project. In particular, he discussed the potential closing of the median opening at Mt. Zion Boulevard and Mt. Zion Parkway. Gary said that KHA's traffic analysis shows that closing this intersection would have adverse operational effects on the nearby Mt. Zion Road intersection, and that it is KHA's recommendation that the Mt. Zion Parkway intersection remain open.
3. Mike Lobdell agreed that it is desirable to leave Mt. Zion Parkway open, and said that a design variance would be required. Mike also stated that the number of through lanes designed on Mt. Zion Boulevard must conform to the current ARC TIP model.
4. Gary raised the question of whether or not surveyors could work on private property before a public meeting had been held. Marshall Troup stated that he was unsure if there was any such requirement, and that he would research it.
5. Mike stated that since the project will require an EA instead of a CE, a public hearing would be required. He also said that a draft EA would be required in order to hold a public hearing. Marshall confirmed this. Mike and Scott Lee both said that they believed a public meeting should be held before survey crews are allowed to work outside the right-of-way. Mike said that the purpose of holding a public meeting at this time would be to inform the public that the project is coming in the future and that survey crews will be in the area.

6. Gary asked what information GDOT wanted to show on the public meeting displays. Scott and Mike said that, in addition to conceptual alignments and edges of pavement, existing property lines should be drawn on the display. They suggested using tax maps as reference since property survey is not yet available. Gary asked if owner names should be shown. Scott said that parcel ID numbers would be sufficient data as long as the property statistics spreadsheet is provided at the meeting to assist owners in identifying their properties. Sean Johnston said that KHA could have displays ready in approximately six weeks.
7. Sean suggested that, given the requirements outlined by Mike and Scott, KHA's approach would be to hold a Public Information Open House (PIOH) as soon as possible (within 6-8 weeks), after which survey crews would be authorized to work outside the right-of-way on private property. A Public Hearing would be held during preliminary plan development, once the survey database is complete and the draft EA is approved. Once the Public Hearing is held and the final EA is approved, the project would proceed to PFPR. Mike said that he agreed with this approach.
8. Marshall said that he would check with GDOT Environment/Location to determine if surveyors must wait until after a PIOH to work outside the right-of-way.
9. The group discussed other project design issues, including the location of median openings for auto dealerships on Mt. Zion Boulevard east of I-75.
10. Gary said that KHA would coordinate further with Clayton County and GDOT to determine a suitable date for a PIOH, and would attend a dry run several days before the meeting.

These minutes contain the understanding of KHA representatives regarding discussions, decisions, action items, etc. at the meeting.

Copies: Rob Lewis, CH2M Hill/Clayton County SPLOST Program  
Scott Lee, GDOT District 7 Preconstruction  
KHA File 019204003, 019204004

## MINUTES OF MEETING

Project: STP-9108(4&5), P.I. No. 751770, 751775, Widening of Battle Creek Road/Mt. Zion Boulevard, Clayton County

Date: November 10, 2005

Attendees:	Mike Lobdell	GDOT District 7 Preconstruction
	Scott Lee	GDOT District 7 Preconstruction
	Gerald Ford	GDOT District 7 Preconstruction
	Merishia Robinson	GDOT District 7 Preconstruction
	Lowell James	GDOT District 7 Preconstruction
	Marshall Troup	GDOT District 7 Preconstruction
	Lisa Favors	GDOT Office of Environment Location
	Steve Walker	GDOT Office of Planning
	Andy Adams	Clayton County
	Jeff Metarko	Clayton County
	David Rutledge	Clayton County
	Terry Legvold	CH2M Hill
	Keith Rohling	CH2M Hill
	J. Hamlin	Dianna Hunt and Associates
	Gary Newton	Kimley-Horn and Associates, Inc. (KHA)
	Sean Johnston	Kimley-Horn and Associates, Inc. (KHA)
	Chris Mroczka	Kimley-Horn and Associates, Inc. (KHA)
	Laura Macgregor	Kimley-Horn and Associates, Inc. (KHA)

This meeting was held in the GDOT District 7 Preconstruction conference room to discuss the draft concept report prepared by Kimley-Horn and Associates (KHA) for the above referenced project.

1. Gerald Ford began the meeting by asking for introductions from each attendee.
2. Sean Johnston gave a brief presentation of the concept layout, discussing proposed roadway features, major utilities, major structures and other concerns, as well as the proposed reconfiguration of the intersections on Battle Creek Road at Valley Hill Road and Mt. Zion Boulevard.
3. Sean pointed out that while the traffic study recommends a six lane section along Mt. Zion Boulevard from Mt. Zion Road to the I-75 southbound ramps, the project is currently modeled for four lanes, therefore the proposed concept calls for a four lane section. Steve Walker stated that the model description could be updated in the summer of 2006 to include the six lane section. This revised model would be effective until 2012, which would accommodate the proposed opening year of 2011.
4. Sean briefly discussed of right-of-way concerns. J Hamlin noted that it would take approximately 2 years to acquire right-of-way for both projects.

5. Sean briefly discussed utility impacts. These include impacts to the Williams transcontinental gas pipeline near the intersection of Battle Creek Road and Mt. Zion Boulevard. The reconfiguration of this intersection will create impacts to short sections of the pipeline. Most of the costs associated with this impact are associated with the mobilization and operation of equipment and resources to relocate the pipeline, and not the cost of the actual pipeline itself. Other major utility concerns include the widening of the grade crossing on Battle Creek Road at the Norfolk Southern Railroad. KHA will coordinate with the railroad through the GDOT office of utilities during preliminary design.
6. Laura Macgregor briefly discussed environmental concerns. Laura stated that an individual U.S. Army Corps of Engineers 404 permit would be required for stream and wetland impacts on both projects. She said that no significant archaeological resources were found within the study area, and that the only historical resource is the Norfolk Southern Railroad. Mike Lobdell asked what level of environmental analysis would be required. Laura said that an Environmental Assessment/FONSI would be required. Laura also noted the presence of nests indicative of migratory bird species nesting on the Battle Creek Road bridge over Jesters Creek. Bridge construction will not be allowed to take place during the breeding season (March to August) or if active nests are present. Sean noted that bridge construction will be limited to reinforcement of the eastbound superstructure with external carbon fiber wraps on the existing girders.
7. Andy Adams noted that the majority of these two projects will be funded with Clayton County SPLOST funds. These funds must be allocated by December 31<sup>st</sup>, 2008. This will drive the project schedule and require that right-of-way acquisition begin no later than early 2007. Andy asked if it would benefit the county to shift all of the federal funds to the Mt. Zion Boulevard project (751770) and construct the Battle Creek Road project (751775) solely with SPLOST funds. Lisa Favors said that this would not likely help the county meet its schedule because there would be no logical termini for the Mt. Zion Boulevard project, which would create difficulty in obtaining an approved environmental document.
8. The schedule for approval of the environmental document was discussed. Sean Johnston stated that the draft EA was scheduled to be completed by January of 2006, which would allow for the holding of a public hearing in early May 2006, and final approval of the FONSI by August of 2006. This schedule would allow for final right-of-way plans approval by December of 2006.
9. Gerald Ford reviewed GDOT comments of concept reports for both projects. The need and purpose statement was discussed in detail, and it was suggested that KHA should add a more in-depth description of projects issues and solutions. A table showing the proposed Level of Service (LOS) will be added to this section, as well as a discussion of land use and the need for improved pedestrian facilities.

10. Scott Lee asked that KHA provide a project schedule to GDOT District 7 design staff. Scott said that GDOT would obtain commitments from team members in Right-of-Way, Environment Location and Design to prioritize the project and expedite reviews in order to meet the schedule and ensure the county's ability to allocate SPLOST funds.

These minutes contain the understanding of KHA representatives regarding discussions, decisions, action items, etc. at the meeting.

Copies: Robert Lewis, CH2M Hill/Clayton County SPLOST Program  
KHA File 019204003, 019204004

## TRAFFIC ANALYSIS SUMMARY

### WIDENING OF BATTLE CREEK ROAD PROJECT STP-9108(5), P.I. NO. 751775

**Description of the proposed project:** Project STP-9108(5) consists of widening Battle Creek Road (CR 1342) from the existing two lane facility to four 12-foot lanes with a 20-foot raised median and urban shoulders consisting of 2.5-foot curb and gutter, 6-foot grassed strip and 5-foot sidewalks. The project begins 475 ft west of the intersection of Valley Hill Road and Battle Creek Road (M.P. 0.00) and continues to the intersection of Battle Creek Road and Southlake Parkway. (M.P. 2.02) The intersection of Battle Creek Road and Valley Hill Road will be realigned to provide an east-west through movement from eastbound Valley Hill Road to eastbound Battle Creek Road. The total project length is approximately 11150 feet (2.11 miles)

**Level of Service:** The following tables illustrate the design year level of service for the proposed roadway conditions as well as the no-build condition. The results of the traffic study show that the proposed improvements will allow most major intersections within the project limits to operate at LOS D or better. The results of the analysis of the no-build alternative show three of the four major intersections operating at LOS F. The intersections on Battle Creek Road at Tara Boulevard and Jonesboro Road will still operate at LOS F in the design year under the proposed conditions, but overall delay at these intersections will be significantly reduced. Therefore, the proposed improvements will result in improved Level of Service at each intersection.

<b>Design Year 2031 Level Of Service (Delay in Second)</b>		
<b>Intersection</b>	<b>AM Peak</b>	<b>PM Peak</b>
Battle Creek Road at Valley Hill Road	C (30.9)	C (22.5)
Battle Creek Road at Tara Boulevard (US 19/41)	F (157.8)	F (177.9)
Battle Creek Road at Jonesboro Road (SR 54)	D (48.1)	F (120.2)
Battle Creek Road at Southlake Parkway	B (18.5)	C (20.4)

<b>No-Build Design Year 2031 Level Of Service (Delay in Seconds)</b>		
<b>Intersection</b>	<b>AM Peak</b>	<b>PM Peak</b>
Battle Creek Road at Valley Hill Road	E (38.1)	F (245.5)
Battle Creek Road at Tara Boulevard (US 19/41)	F (236.1)	F (252.3)
Battle Creek Road at Jonesboro Road (SR 54)	F (106.2)	F (133.2)
Battle Creek Road at Southlake Parkway	C (22.0)	C (29.2)

**Accident Data:** Accident data for the intersections along Battle Creek Road was obtained from the Clayton County Department of Transportation for years 2003 and 2004. The following table summarizes accident rates per 1 million vehicles entering each intersection within the project limits. There is no data available for statewide averages of accidents per 1 million vehicles entering an intersection, however project STP-9108(5) is expected to improve safety and reduce accidents by improving intersection sight distance, upgrading existing traffic signals and providing for additional turn lanes.

<b>Battle Creek Road Accident Rates*</b>		
<b>Intersection</b>	<b>2003</b>	<b>2004</b>
Battle Creek Road at Valley Hill Road	3.91	3.38
Battle Creek Road at Tara Boulevard (US 19/41)	17.41	26.35
Battle Creek Road at Jonesboro Road (SR 54	8.66	12.47
Battle Creek Road at Southlake Parkway	2.64	1.85
* Rates are per 1 million vehicles entering the intersection		

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*District 7 Preconstruction*

**WIDENING OF BATTLE CREEK ROAD**

**PROJECT CONCEPT REPORT**

Project Number: STP-9108(5)

County: CLAYTON

P. I. Number: 751775

Federal Route Number: N/A

State Route Number: N/A

County Route Number: 1342

SEE PAGE 2 FOR LOCATION SKETCH

Recommendation for approval:

DATE 12/22/05

*Neil*  
Project Manager

DATE 12/23/05

*Ben*  
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 the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE 1-6-06

*Heath*  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge and Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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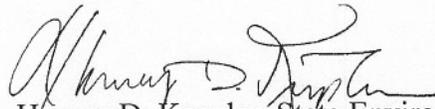
**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P.I. No. 751775

**OFFICE:** Environment/Location

**DATE:** January 18, 2006

**FROM:**



Harvey D. Keeper, State Environmental/Location Engineer

**TO:**

Margaret B. Pirkle, Assistant Director of Preconstruction

**SUBJECT:**

**PROJECT CONCEPT REPORT**

**STP-9108(5) / Clayton County**

**Battlecreek Rd. from Valley Hill Rd. to Southlake Parkway**

The above subject concept report has been reviewed. Due to planned road closures, a detour meeting will be required.

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

HDK/lc

Attachment

cc: Brian Summers  
Bryant Poole  
Keith Golden  
Joe Palladi  
Jamie Simpson

**DEPARTMENT OF TRANSPORTATION**  
**STATE OF GEORGIA**  
*District 7 Preconstruction*

**WIDENING OF BATTLE CREEK ROAD**  
**PROJECT CONCEPT REPORT**

Project Number: STP-9108(5)  
County: CLAYTON  
P. I. Number: 751775

Federal Route Number: N/A  
State Route Number: N/A  
County Route Number: 1342

SEE PAGE 2 FOR LOCATION SKETCH

Recommendation for approval:

DATE 12/22/05

*Neil Adams*  
Project Manager

DATE 12/23/05

*Ben Hood*  
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 the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

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

DATE 1/3/06

*Paul V. Hill Jr.*  
State Bridge and Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*District 7 Preconstruction*

**WIDENING OF BATTLE CREEK ROAD**

**PROJECT CONCEPT REPORT**

Project Number: STP-9108(5)

County: CLAYTON

P. I. Number: 751775

Federal Route Number: N/A

State Route Number: N/A

County Route Number: 1342

SEE PAGE 2 FOR LOCATION SKETCH

Recommendation for approval:

DATE 12/22/05

*Neil Adams*  
Project Manager

DATE 12/23/05

*Ben Hool*  
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 the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE 1.17.06

*Thomas S. Kuper*  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge and Structural Design Engineer