

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 0000476, Cherokee County **OFFICE** Preconstruction  
STP-0000-00(476)  
Intersection Improvements of Holly Street  
And Hickory Road **DATE** June 1, 2005

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

**TO** *MBP* SEE DISTRIBUTION

**SUBJECT PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

MBP/cj

Attachment

**DISTRIBUTION:**

David Mulling  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Paul Liles  
Babs Abubakari  
Kent Sager  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P.I. No. 0000476, Cherokee County **OFFICE** Preconstruction  
 STP-0000-00(476)  
 Intersection Improvements of Holly Street  
 and Hickory Road **DATE** May 18, 2005

**FROM** *M. Margaret B. Pirkle*  
 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 intersection improvements to Holly Street and Hickory Road at Holly Springs Parkway in Holly Springs, Georgia. Currently, Holly Street and Hickory Road intersect Holly Springs Parkway 200' apart, requiring two signalized intersections and providing limited left turn storage capacity. The close proximity of the intersections and the storage capacity contribute to congestion along Holly Springs Parkway. Holly Street and Hickory Road are classified as local streets and Holly Springs Parkway as an urban minor collector. The existing posted speed is 35 MPH.

The proposed construction will realign Holly Street to intersect Holly Springs Parkway at Hickory Road, signalize the intersection, add left turn lanes on Holly Springs Parkway northbound and southbound, and add right turn lanes on Holly Street and Hickory Road. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public hearing open house is not required; time saving procedures are 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)	\$492,000	\$460,000	Q23	2006
Right-of-Way & Utilities*	Local	Local		

\*City of Holly Springs signed PMA on 3-22-05 for PE, right-of-way and utilities.

David Studstill

Page 2

P.I. No. 0000476, Cherokee

May 18, 2005

I recommend this project concept be approved.

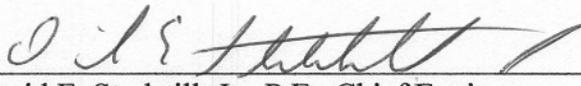
MBP:JDQ/cj

Attachment

CONCUR

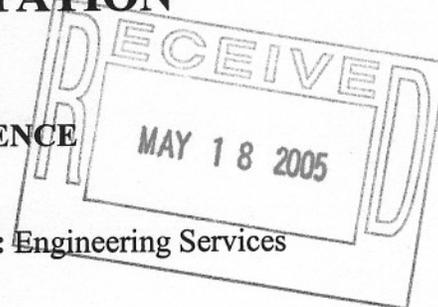
  
Buddy Gratton, P.E., Director of Preconstruction

APPROVE

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

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**



**FILE:** STP-0000-00(476) Cherokee  
P.I. No. 0000476  
Holly Street/Hickory Road Intersection Improvements

**OFFICE:** Engineering Services

**DATE:** May 18, 2005

**FROM:** Brian Summers, Project Review Engineer *REW*

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

**SUBJECT: CONCEPT REPORT**

We have reviewed the Concept Report submitted May 13, 2005 by the letter from Kent Sager dated May 12, 2005, and have the following comment:

- Include the status of the LGPA for this project.

The costs for this project are:

Construction	\$425,712
Inflation	\$21,286
E & C	\$44,700
Reimbursable Utilities	\$15,000
Right of Way	\$253,700

REW

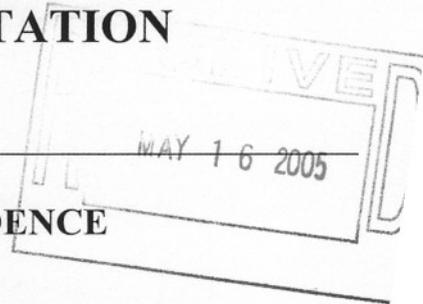
c: Kent Sager, Attn.: Danny Roberson

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> STP-0000-00(476)		<b>County:</b> Cherokee		<b>PI No.:</b> 0000476	
<b>Report Date:</b> May 12, 2005		<b>Concept By:</b> DOT Office: District 7			
<input checked="" type="checkbox"/> Concept Stage		Consultant: Heath and Lineback			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input checked="" type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**



**PROJECT:** STP-0000-00(476)  
**COUNTY:** Cherokee  
**P.I. #:** 0000476

**OFFICE:** Cartersville

**DATE:** May 12, 2005

**TO:** Kent L. Sager, District Engineer

Meg Pirkle, Assistant Division 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 Plan Development Process (PDP).

If additional information is needed, please call Danny Roberson at 770-387-3623. Thank you.

**By:** David W. Ray  
District Design Squad Leader

**For:** C. DeWayne Comer, P.E.  
District Preconstruction Engine

**KLS:CDC:DPM:dwr**

Attachments:

**CC:** Brian Summers, Project Review Engineer  
Harvey Keeper, State Environmental/Location Engineer  
Keith Golden, State Traffic Safety and Design Engineer  
Joe Palladi, State Transportation Planning Administrator  
Jamie Simpson, State Transportation Financial Management Administrator  
Kent Sager, District Engineer  
Main File  
File

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
District 6

PROJECT CONCEPT REPORT

Project Number: STP-0000-00(476)

County: Cherokee

P. I. Number: 0000476

Federal Route Number: N/A

State Route Number: N/A

DESCRIPTION: Intersection Improvement of Holly Street and Hickory Road

Recommendation for approval:

DATE 5-12-05

Curtis D. Comer

Project Manager

DATE 11

11  
District 6 Preconstruction 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 \_\_\_\_\_

\_\_\_\_\_  
State Office of Financial Management Administrator

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

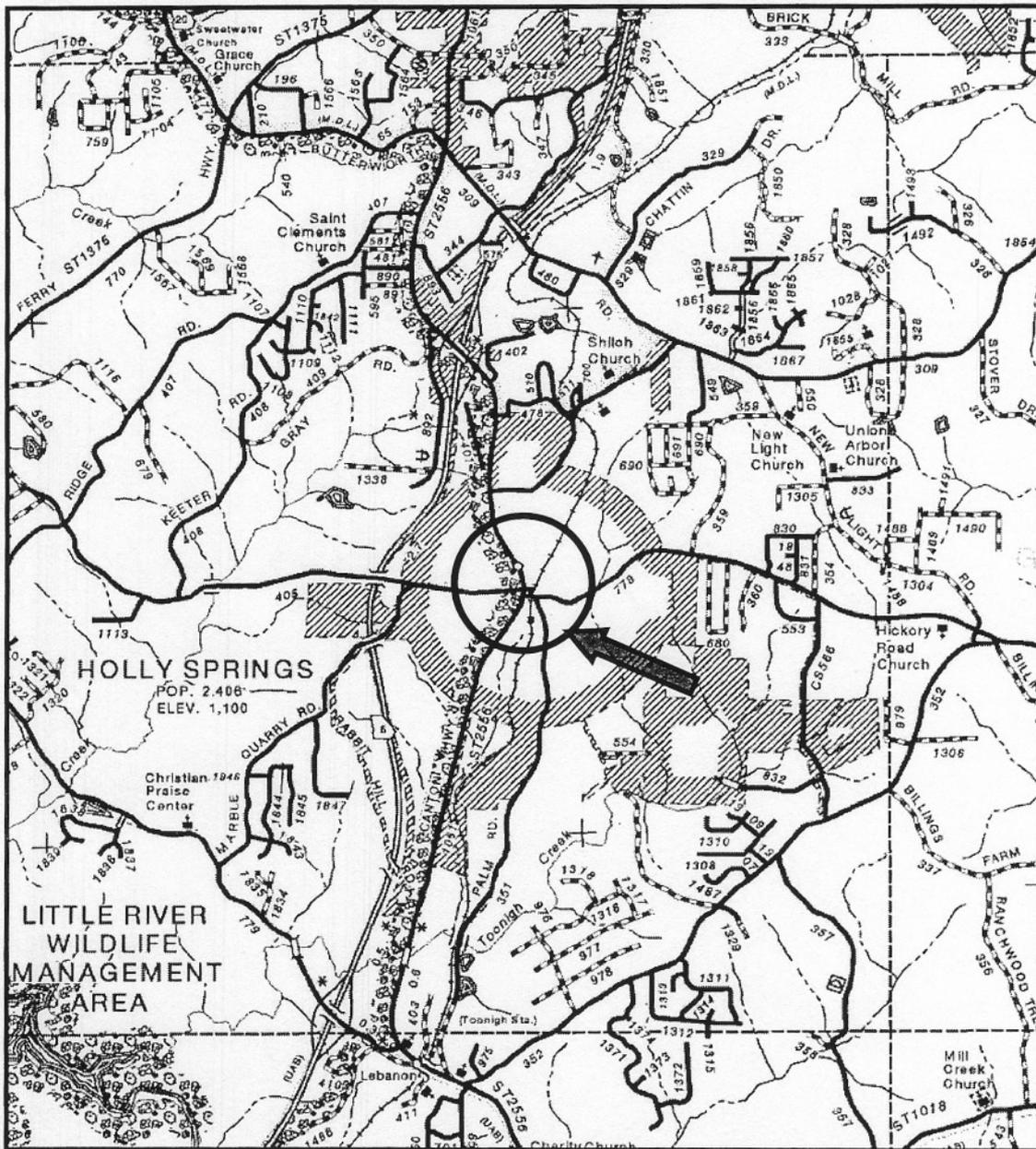
DATE 5/12/05

Kent Say  
District 6 Engineer

DATE \_\_\_\_\_

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

Project Concept Report page 2  
Project Number: STP-0000-00(476)  
P. I. Number: 0000476  
County: Cherokee



Scale: 1 inch = 1 mile  
**Location Map**

**Project:** STP-0000-00(476), Cherokee County PI No.: 0000476  
**Description:** Intersection Improvement of Holly Street and Hickory Road

Project Concept Report page 3  
Project Number: STP-0000-00(476)  
P. I. Number: 0000476  
County: Cherokee

**Need and Purpose:** See attached Need & Purpose Statement.

**Description of the proposed project:** Project STP-0000-00(476) is an intersection improvement project in Cherokee County at Holly Street and Hickory Road in Holly Springs, GA. The total project length is approximately 900 feet (0.17 miles). The purpose of this project is to realign approximately 700 feet of Holly Street to intersect Holly Springs Parkway at Hickory Road.

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

**PDP Classification:** Minor

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

**Functional Classification:** Urban Minor Collector (Holly Springs PKWY)  
Local Street (Holly Street & Hickory Road)

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

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

**Traffic (AADT):**

<b>Holly Street:</b>	<b>Current Year: (2006)</b> <u>5,000</u>	<b>Design Year: (2026)</b> <u>7,500</u>
<b>Hickory Road:</b>	<b>Current Year: (2006)</b> <u>8,400</u>	<b>Design Year: (2026)</b> <u>12,500</u>
<b>Holly Springs Parkway:</b>	<b>Current Year: (2006)</b> <u>13,750</u>	<b>Design Year: (2026)</b> <u>20,500</u>

**Existing design features:**

- Typical Section: 2-12 ft. travel lanes with variable width grass shoulders.
- Posted speed 35 mph Maximum degree of curvature: 3° 00'.
- Maximum grade: 11.0 %
- Width of right of way: varies from 30' to 50'
- Major structures: None
- Major interchanges or intersections along the project: Holly Springs Parkway, Jackson Street, and Boyd Street

**Proposed Design Features:**

**Proposed typical section(s):** Two 12'-0" travel lanes with 16'-0" urban shoulder including curb & gutter, sidewalk and left and right turning lanes. Typical section attached.

- Proposed Design Speed Mainline 35 mph
- Proposed Maximum grade Mainline 10 % Maximum grade allowable 11 %.
- Proposed Maximum grade Side Street 10 % Maximum grade allowable 11 %.
- Proposed Maximum grade driveway 12 %
- Proposed Maximum degree of curve 6° 00'. Maximum degree allowable 6° 00'.

Project Concept Report page 4  
 Project Number: STP-0000-00(476)  
 P. I. Number: 0000476  
 County: Cherokee

- Right of way
  - Width 50-75 ft additional at Holly St. new location & 10-30 ft additional for Hickory Road widening.
  - Easements: Temporary ( ), Permanent (X), Utility ( ), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit ( X ), Other ( ).
  - Number of parcels: 4 Number of displacements: 2
    - Business: 1
    - Residences: 1
    - Mobile homes: 0
    - Other: 0
- Structures: None
- Major intersections and interchanges: Holly Springs Parkway, Jackson Street, and Boyd Street
- Traffic control during construction: Traffic will be maintained on the existing alignment during construction.
- 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)	( )	(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
- Environmental concerns: None
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ( X ), No ( ),
  - Categorical exclusion anticipated ( X ),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
  - Environmental Impact Statement (EIS) ( ).
- Utility involvement: Possible Utility Owners: Sawnee EMC, Atlanta Gas Light, Cherokee Water and Sewer, Alltel, Adelphia.

**Project responsibilities:**

- Design, City of Holly Springs
- Right of Way Acquisition, City of Holly Springs
- Relocation of Utilities, City of Holly Springs
- Letting to contract, General Office (Office of Contract Administration)
- Supervision of construction, District 6 Construction Office
- Providing material pits, Construction Contractor
- Providing detours, N/A

Project Concept Report page 5  
Project Number: STP-0000-00(476)  
P. I. Number: 0000476  
County: Cherokee

### Coordination

- Initial Concept Meeting date and brief summary. N/A
- Concept meeting date: 4/20/2005, Meeting Minutes Attached
- P. A. R. meetings, dates and results. None Required.
- FEMA, USCG, and/or TVA. None Anticipated
- Public involvement. None Required
- Local government comments. Intersection Improvement Needed, Cherokee County & GDOT
- Other projects in the area. None
- Other coordination to date. None

### Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 4 Months
- Time to complete preliminary construction plans: 3 Months
- Time to complete right of way plans: 2 Months
- Time to complete final construction plans: 2 Months
- Time to complete to purchase right of way: 6 Months
- List other major items that will affect the project schedule: N/A

**Other alternates considered:** (1) Realign Holly Street to intersect Holly Springs Parkway at Hickory Road; (2) Realign Hickory Road to intersect Holly Springs Parkway at Holly Street and construct bridge over the railroad; or (3) No Build.

### Comments:

#### Comparison Summary of Concepts 1 - 5

Alternate (1) is selected for this concept.

Alternate (2) was eliminated due to more environmental and property impacts on the east side of Holly Springs Parkway and the high costs of constructing a bridge over the railroad. Alternate (3) was eliminated due to the need to improve the intersection.

Project Concept Report page 6  
Project Number: STP-0000-00(476)  
P. I. Number: 0000476  
County: Cherokee

**Attachments:**

1. Concept Meeting Minutes
2. Preliminary Cost Estimates:
  - a) Construction including E&C
3. Typical sections,
4. Need and Purpose Statement,
5. Traffic Assignments,
6. Location and Design Notice (On Minor Projects)

## CONCEPT TEAM MEETING NOTES

STP-0000-00(476) -- CHEROKEE COUNTY -- PI# 0000476

*INTERSECTION IMPROVEMENT ON CR 1061/OLD SR 5 @  
HICKORY RD & HOLLY ST IN HOLLY SPRINGS*

**All comments highlighted should be addressed with a written response by the Project Manager.**  
*-all comments have been addressed in Red Italics*

### **ATTENDEES:**

David Moore – GDOT Design  
(770) 387-3622 -- david.moore@dot.state.ga.us

David Ray (for Danny Roberson) – GDOT Design  
(770) 387-3623 – danny.roberson@dot.state.ga.us  
(770) 387-3623 – david.ray@dot.state.ga.us

Stanley Horton – GDOT Utilities  
(770) 387-3616 -- stan.horton@dot.state.ga.us

Joe Highfield (for Dee Corson) – GDOT Traffic Operations  
(770) 387-4813 -- dee.corson@dot.state.ga.us  
(770) 387-3632 -- joe.highfield@dot.state.ga.us

Debra Soulis – GDOT Local Government R/W  
(770) 387-3620 -- debra.soulis@dot.state.ga.us

Kenny Beckworth – GDOT Construction  
(770) 387-3609 -- kenny.beckworth@dot.state.ga.us

Jerry Jones (for Glenn Warlick) – GDOT Construction  
(770) 387-3680 -- glenn.warlick@dot.state.ga.us  
(770) 517-2951 – jerry.jones@dot.state.ga.us

Scott Jordan – Heath & Lineback  
(770) 424-1668 -- sjordan@heath-lineback.com

Allen Krivsky – Heath & Lineback  
(770) 424-1668 -- akrivksy@heath-lineback.com

Susan Thomas – Edwards-Pittman Environmental  
(770) 333-9484 -- sthomas@edwards-pittman.com

Tony Griffin – City of Holly Springs  
(770) 345-5536 -- awgriffin@hollyspringsga.net

Tyrone Gardner – City of Holly Springs  
(770) 345-5536 -- tgardner@hollyspringsga.net

Joel Stone – City of Holly Springs  
(404) 317-7723 -- joelfstone@aol.com

## Notes from David Moore:

Date April 20, 2005

0000476 Cherokee

1. Plans must follow the GDOT Plan Development Process-the plans will follow the PDP.
2. Plans must meet the Plans Presentation Guide -the plans will follow the PPG.
3. Plans and survey must meet EDG 2-the plans will follow the EDG 2.
4. A 20% check is required as soon as the survey is complete. Please contact Ken Thompson of The Office of Environment/Location for more information. The request will go through Mr. David Ray. -a Survey Accuracy Check will be requested by OEL via David Ray.
5. All plans, document, reports, special provisions, and any item necessary to the completion of the project must be approved by the appropriate GDOT offices. -all plans, documents, reports etc will be sent to the appropriate GDOT offices for approval.
6. Plans must meet the requirements of the Americans with Disabilities Act. -all plans will be meet ADA requirements.
7. David Ray at (770) 387-3623 is the District Design Project Manager
8. Stan Horton at (770) 387-3616 is the District Utilities contact.
9. Debbie Soulis at (770) 387-3620 is the Local Government Coordinator for R/W.
10. Dee Corson at (770) 387-4813 is the District Traffic Operations Contact.

## Opening Remarks:

1. City of Holly Springs is the Sponsor of the project
2. Edwards-Pittman Environmental doing the Environmental Document
  - a. Historic Resources along periphery of project; no eligible resources
  - b. No ecology
  - c. No Archeology
  - d. They have concurrence from SHPO
  - e. Air/Noise Quality Impact studies needed for intersection
  - f. Categorical Exclusion expected
3. Heath & Lineback doing the Design
  - a. Need to do Cost-Benefit Analysis (contact David Ray for forms & instructions) -a Cost-Benefit Analysis will be completed upon request from the Department.
  - b. Cost-Benefit Analysis should result in score of 1.0 or better
  - c. Survey is complete
    1. Submit 20 % Check ASAP to Ken Thompson at OEL
  - d. Process explained for all submittals (H&L > District 6 > G.O., etc.)

## Discussion of Project:

1. Need & Purpose:
  - a. Show accident history in Concept Report (as a table perhaps) -accident history has been shown on the Traffic Data Sheet of the Concept Report.
2. STIP Conformity:
  - a. TPRO shows 2010 where ARC shows 2006
  - b. H&L needs to get with Andy Rikard, District Planning & Programming Engineer-The City of Holly Springs and H&L will coordinate with Andy Rikard about the STIP and TPRO differences.
  - c. Financial Management (Herman Griffin) should be notified of discrepancy in dates
3. Project Management Agreement (PMA):

- a. State & Federal money involved
- b. GDOT responsible for letting project
- 4. Public Involvement:
  - a. Public was involved during the LCI process; no involvement since
  - b. City of Holly Springs published article in newsletter to property owners
- 5. Access & Driveways:
  - a. Access and driveways for property owners cut off by project should be addressed-*all access and driveway issues will be resolved during preliminary design.*
  - b. Boyd Street was abandoned by City several years ago
  - c. City and H&L said access would be worked out as plans are developed
- 6. Exempt status:
  - a. David Ray to check status in TPRO

### Discussion of Concept Report:

- 1. Proposed Typical Section:
  - a. Shows 10' shoulders with a 2' grass strip
  - b. 16' shoulders are preferred-*the shoulders have been changed to 16'.*
  - c. Clear Zone may be an issue; need to check-*Clear Zone will be checked.*
- 2. Design Speed:
  - a. Shown as 25 mph; posted speed limit is 35 mph
  - b. Look at a design speed of 35 mph-*the design speed has been changed to 35 mph.*
  - c. Design Exception will be needed if 25 mph used-*the design speed has been changed to 35 mph. A Design Exception will not be needed.*
  - d. H&L used 25 mph because of vertical curves
  - e. V/C at railroad may need a Design Exception if 35 mph used
- 3. Typical Sections (in general):
  - a. 6" behind sidewalk; more is needed (at least 12")-*the cross-sections has been changed to show 4'-6" behind the sidewalk.*
  - b. H&L said they would modify Typical Section as site allowed/warranted
  - c. City asked about Streetscape/Enhancement
  - d. City wants to put trees in grass strip
  - e. Only shrubs could be place in Clear Zone
  - f. City can add trees as part of an Enhancement project after this project is closed out
- 4. 2:1 slopes behind sidewalk:
  - a. 2:1 slopes shown behind sidewalk; 4:1 required for Clear Zone-*guardrail will be required at all 2:1 slopes.*
  - b. H&L pointed out that guardrail would be used where required on 2:1 slopes
  - c. Slope Control box pointed out on Typical Section
- 5. Right-of-Way:
  - a. Debbie Soulis overseeing R/W portion of project
  - b. Appraisals must go through the R/W Office in the General Office
  - c. City mentioned 4 parcels that would be affected
  - d. TPRO shows 7 parcels with 2 displacements (1 business & 1 residence)
  - e. Debbie Soulis will provide City with forms & listing of approved appraisers
  - f. Debbie Soulis advised City not to talk to property owners before R/W is approved
  - g. Temp. Easements should be replaced by Perm. Easements
  - h. Temporary Easements would be OK if property owners agreed
  - i. Show Permanent Easements and then negotiate to Temporary

- j. Check to see if enough room for Erosion Control, etc. –*sufficient easement or right of way will be provided for proper Erosion Control measures.*
6. Traffic Operations/Signal:
  - a. There are 2 existing signals
  - b. One signal will be upgraded and the other will be removed
  - c. A TE Study will be required-*a TE Study will be completed.*
  - d. Will there be Pedestrian Signals and crosswalks? –*yes.*
  - e. Will striped island remain on plans? –*no, a left turn lane will be added.*
7. Topography:
  - a. David Moore asked about the topography of the area
  - b. If “Rolling”, Vertical Curves may be easier to keep within design requirements
8. Sight Distance:
  - a. Sight Distance should be checked and addressed-*sight distance will be checked and addressed.*
9. Curb & Gutter – Sidewalk:
  - a. Variance required if no sidewalk is placed behind any section of curb & gutter –*sidewalk will be placed everywhere curb & gutter is placed. A Design Variance is not anticipated.*
  - b. Sidewalk may be an issue at the railroad; needs to be addressed early on
10. Utilities:
  - a. Stan Horton provided H&L with a list of Utility Owners
  - b. List Utility Owners in Concept Report-*the utility owners have been listed in the concept report, a provided by District Utilities Office.*
  - c. Stan Horton is H&L’s contact with GDOT
11. Further Discussion of PMA:
  - a. GDOT responsible for Letting, Construction Supervision
  - b. City of Holly Springs responsible for PE, R/W and Utilities (20 % per PMA)
  - c. H&L requested copy of TOPPS concerning PMA’s (David Moore to provide)
  - d. H&L has not received signed copy of PMA; David Moore to call OFM
12. Scheduling:
  - a. Check/Revise “Responsible Parties’ Estimate” for each item-*the “Responsible Parties’ Estimate” has been revised.*
13. Cost Estimate:
  - a. TPRO estimate doesn’t match Concept Report estimate-*H&L will contact Andy Rikard about the TPRO and STIP differences.*
  - b. The following items should be added to estimate: –*the following items have been added to the cost estimate.*
    1. Concrete Valley Gutter-*added.*
    2. Underdrain Pipe-*added.*
    3. Mulch instead of Temporary Mulch-*added.*
    4. If over 1 acre disturbed, Water Quality Inspections/Monitoring-*added.*
      - i. Full set of Erosion Control Plans needed if over 1 acre disturbed-*a full set of Erosion Control Plans will be provided.*
    5. Poles for Signal-*added.*
      - i. City asked about decorative poles in place- *the City of Holly Springs desires to use the existing poles.*
      - ii. New poles or use existing? –*the City of Holly Springs desires to use the existing poles.*
      - iii. Existing poles would need to be approved by Bridge Office-*the existing poles will be approved by the Bridge Office.*

14. Pavement Design Analysis (PDA):

- a. Remove PDA from Concept Report-*the PDA has been removed from the Concept Report.*
- b. PDA should go through District 6 then on to OMR

**Final Discussion:**

1. Better R/W Cost Estimate needed-*an updated R/W cost estimate will be provided.*
2. Changes addressed in meeting should be addressed and submitted via new process (PDF File)-*all changes mentioned at the concept meeting will be addressed in the Final Concept Report. The Final Concept Report will be distributed by PDF file via email.*

**PRELIMINARY COST ESTIMATE**

DATE: April 28, 2005      PREPARED BY: Heath & Lineback Engineers, Inc.

PROJECT NO.: STP-0000-00(476)

P.I. NO.: 0000476

LENGTH: 900 ft. (0.17 mi)

PROJECT DESCRIPTION: Intersection Improvement at Holly Street and Hickory Road

PROPOSED CONCEPT: The proposed typical section consists of two 12'-0" travel lanes with curb & gutter and variable width shoulders. Adding left and right turning lanes. The traffic will be maintained on the existing alignment during construction.

EXISTING ROADWAY: Holly Street and Hickory Road

TRAFFIC: Existing Holly Street: 5000 ADT (2006)      Design: 7500 ADT (2026)

Existing Hickory Road: 8400 ADT (2006)      Design: 12500 ADT (2026)

Existing Holly Springs Parkway: 13750 ADT (2006)      Design: 20500 ADT (2026)

PROGRAMMING PROCES     CONCEPT DEVEL.     DURING PROJ DEVEL.

### Estimate Report for file "0000476"

Section ROADWAY					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	10000.00	TRAFFIC CONTROL -	10000.0
210-0100	1.00	LS	90000.00	GRADING COMPLETE -	90000.0
310-1101	500.00	TN	13.87	GR AGGR BASE CRS, INCL MATL	6935.0
318-3000	30.00	TN	15.68	AGGR SURF CRS	470.4
402-1812	15.00	TN	39.10	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	586.5
402-3131	200.00	TN	37.20	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	7440.00
402-3190	200.00	TN	39.32	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	7864.0
413-1000	200.00	GL	0.95	BITUM TACK COAT	190.0
441-0104	1200.00	SY	22.66	CONC SIDEWALK, 4 IN	27192.0
441-4020	300.00	SY	27.82	CONC VALLEY GUTTER, 6 IN	8346.0
500-3107	100.00	CY	420.22	CLASS A CONCRETE, RETAINING WALL	42022.0
550-1180	800.00	LF	28.07	STORM DRAIN PIPE, 18 IN, H 1-10	22456.0
550-2180	40.00	LF	23.08	SIDE DRAIN PIPE, 18 IN, H 1-10	923.19
550-3618	4.00	EA	508.65	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	2034.6
550-4118	2.00	EA	272.29	FLARED END SECTION 18 IN, SIDE DRAIN	544.58
573-2006	150.00	LF	11.36	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	1704.0
634-1200	10.00	EA	84.28	RIGHT OF WAY MARKERS	842.8
668-1100	12.00	EA	1720.77	CATCH BASIN, GP 1	20649.23
<b>Section Sub Total:</b>					<b>\$250,200.32</b>

Section EROSION PROTECTION					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	2.00	AC	460.72	TEMPORARY GRASSING	921.44
163-0240	10.00	TN	189.34	MULCH	1893.4
163-0300	2.00	EA	1113.37	CONSTRUCTION EXIT	2226.74
163-0503	2.00	EA	461.52	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	923.04
165-0030	1000.00	LF	1.19	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1190.0
165-0087	1.00	EA	160.62	MAINTENANCE OF SILT CONTROL GATE, TP 3	160.62
165-0101	2.00	EA	353.90	MAINTENANCE OF CONSTRUCTION EXIT	707.8
167-0100	12.00	MO	955.65	WATER QUALITY MONITORING	11467.8
167-0200	2.00	EA	58.24	WATER QUALITY SAMPLING	116.48
171-0030	2000.00	LF	3.09	TEMPORARY SILT FENCE, TYPE C	6180.0
603-2180	20.00	SY	32.53	STN DUMPED RIP RAP, TP 3, 12 IN	650.6
603-7000	20.00	SY	3.99	PLASTIC FILTER FABRIC	79.80
700-6910	4.00	AC	766.98	PERMANENT GRASSING	3067.92
700-7000	5.00	TN	56.75	AGRICULTURAL LIME	283.75
700-7010	4.00	GL	19.29	LIQUID LIME	77.16
700-8000	2.00	TN	226.17	FERTILIZER MIXED GRADE	452.34
700-8100	100.00	LB	1.43	FERTILIZER NITROGEN CONTENT	143.0
716-2000	20000.00	SY	1.11	EROSION CONTROL MATS, SLOPES	22200.00
<b>Section Sub Total:</b>					<b>\$52,741.89</b>

Section TRAFFIC SIGNS & MARKING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	40.00	SF	13.16	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	526.4
636-1031	20.00	SF	17.26	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	345.20
636-2070	80.00	LF	6.77	GALV STEEL POSTS, TP 7	541.59
639-3014	4.00	EA	7290.41	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM	29161.64
647-1000	1.00	LS	90000.00	TRAFFIC SIGNAL INSTALLATION NO -	90000.0
653-0110	3.00	EA	50.94	THERMOPLASTIC PVMT MARKING, ARROW, TP 1	152.82
653-0120	8.00	EA	56.09	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	448.72
653-0130	2.00	EA	67.97	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	135.94
653-1501	2000.00	LF	0.25	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	500.0
653-1502	2000.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	460.0
653-1706	110.00	LF	2.29	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, YELLOW	251.9
653-1806	300.00	LF	0.55	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, YELLOW	165.0
654-1001	25.00	EA	3.21	RAISED PVMT MARKERS TP 1	80.25
<b>Section Sub Total:</b>					<b>\$122,769.47</b>

**Total Estimated Cost: \$425,711.68**

**Subtotal Construction Cost            \$425,711.68**

E&C Rate 10.0 %                    \$42,571.17

Inflation Rate 5.0 % @ 1.0 Years \$23,414.14

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**Total Construction Cost \$491,696.99**

Right Of Way \$253,750.00

ReImb. Utilities \$15,000.00

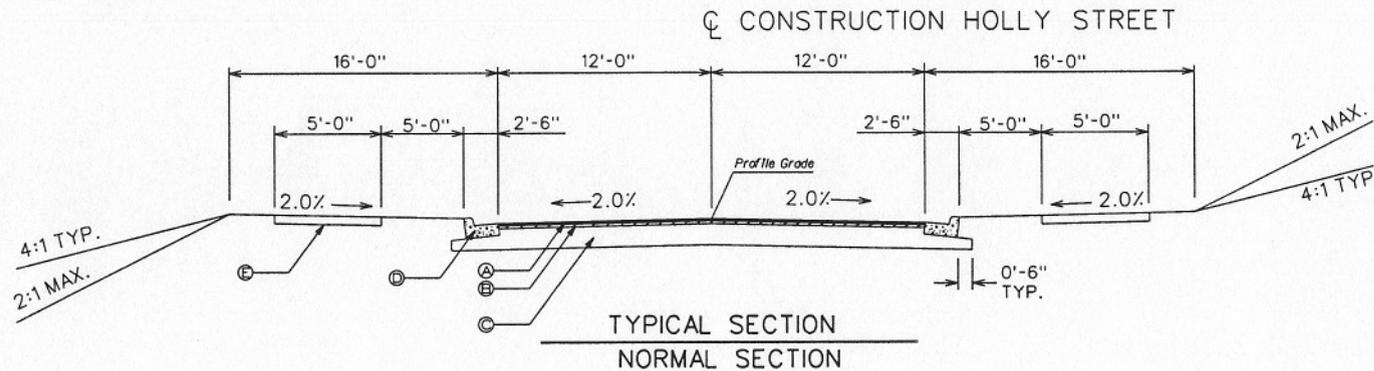
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**Grand Total Project Cost \$760,446.99**

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-0000-00(476)		

SLOPE CONTROL FILL & CUT	
SLOPE	HIGH FROM SHLD. PT.
4:1	0' - 10'
× 2:1	10' AND OVER

× - GUARDRAIL IS REQUIRED ON 2:1 FILL SLOPES 6 FEET HIGH AND OVER



**REQUIRED PAVEMENT**

- (A) RECYCLED ASPH CONC 9.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM & H LIME (135 LBS/SY) - MIX DESIGN LEVEL B
- (B) RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LBS/SY) - MIX DESIGN LEVEL B
- (C) GR AGGR BASE CRS, 9 INCH, INCL MATL
- (D) 8" X 30" C & G, TYPE 2 (GA. STD. 9032-B)
- (E) 4" CONCRETE SIDEWALK (DET. A-3)
- (F) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS DIRECTED BY ENGINEER)

**Heath & Lineback Engineers**  
INCORPORATED  
11 POWERS SPRING STREET, SUITE 240  
MARSHALL, GEORGIA 30055

DATE	REVISIONS	DATE	REVISIONS

GEORGIA  
DEPARTMENT OF TRANSPORTATION  
TYPICAL SECTIONS  
SHEET 1  
PROJECT: STP-0000-00(476)  
COUNTY: CHEROKEE

DWG NO. 5-01

11-140281-CONCEPT

## NEED AND PURPOSE

STP-0000-00(476) – CHEROKEE COUNTY, P.I. 0000476 (ARC NO. CH-205)

### HOLLY STREET REALIGNMENT AND INTERSECTION IMPROVEMENT

Intersection Improvement project STP-0000-00(476) in Cherokee County will realign Holly Street (CR 405) to intersect Holly Springs Parkway (Old SR 5) at Hickory Road (CR 778). The project site is located in downtown Holly Springs. The new intersection will be a 'normal' signalized intersection with the four legs intersecting at near 90 degrees. The relocation of Holly Street intersection will be approximately 200 ft south of the existing intersection.

Holly Street and Hickory Road are classified as Local Streets and Holly Springs Parkway is classified as an Urban Minor Collector. This route is a designated school bus route and is not on the state bike route plan. The existing posted speed limit along Holly Street is 35 mph. The existing posted speed limit along Holly Springs Parkway is 35 mph.

Traffic Data:

<b>Holly Springs Parkway and Holly Street/Hickory Road</b>			
	<b>2006- Two-Way</b>	<b>2026- Two-Way</b>	<b>24 Hour % Trucks</b>
<b>Holly Springs Pkwy</b>	13,750	20,500	2
	<b>2006- Two-Way</b>	<b>2026- Two-Way</b>	<b>24 Hour % Trucks</b>
<b>Hickory Road</b>	8,400	12,500	0.5
<b>Holly Street</b>	5,000	7,500	0.5

Currently, Holly Street and Hickory Road intersect Holly Springs Parkway 200 feet apart requiring two signalized intersections and providing limited left turn storage capacity. The close proximity of the intersections and the storage capacity contribute to congestion along Holly Springs Parkway. The realignment from two separate intersections to a single four leg intersection will provide sufficient capacity to serve existing and future traffic volumes on these facilities. The proposed intersection realignment will improve mobility on Holly Street/Hickory Road by improving driver expectancy for through movements and will improve mobility on Holly Springs Parkway by removing one signalized intersection. The new intersection will be designed with the appropriate turn lane geometry to provide congestion relief.

The purpose of this project is to enhance mobility in order to meet the transportation demand generated by the current and anticipated increase in development, employment and traffic in the City of Holly Springs. This project is committed to a safe, efficient and sustainable transportation system for all users and supports economic development, environmental sensitivity and an improved quality of life for all.

**TRAFFIC DATA**  
**STP-0000-00(476), PI 0000476 - CHEROKEE COUNTY**  
**HOLLY STREET REALIGNMENT AND INTERSECTION IMPROVEMENT**

**INTERSECTION IMPROVEMENT**

Holly Springs Pkwy and Holly Street/Hickory Road					
	Year 2006		Year 2026		24 Hour % Trucks
	Two-Way	One-Way	Two-Way	One-Way	
Holly Springs Parkway	13,750	7,000	20,500	10,500	2
	Year 2006		Year 2026		24 Hour % Trucks
	Two-Way	One-Way	Two-Way	One-Way	
Hickory Road	8,400	4,300	12,500	6,400	.5
Holly Street	5,000	2,600	7,500	3,850	.5

<b>ACCIDENT HISTORY for 1999-2004 (5 Years)</b>		
Intersection	# of Crashes	Injuries/Fatalities
Holly Springs Pkwy and Hickory Road	37	2
Holly Springs Pkwy and Holly Street	18	1

**NOTICE OF LOCATION AND DESIGN APPROVAL**

**Project No. STP-0000-00(476)**

**P.I. No. 0000476**

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

This project consists of intersection improvements of Holly Street and Hickory Road at Holly Springs Parkway located in Cherokee County, G.M.D. 1010. The improvement project includes realigning Holly Street to intersect Holly Springs Parkway at Hickory Street.

Date of Location Approval: JUNE 1, 2005

Drawings and/or maps, and/or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation.

*Mike Thomason, Area 1 Engineer*  
*Email: [mike.thomason@dot.state.ga.us](mailto:mike.thomason@dot.state.ga.us)*  
*874 Peebles Valley Road, N.W.*  
*Cartersville, GA 30120*  
*770-387-3680*

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

*DeWayne Comer*  
*District 6 Preconstruction*  
*Email: [dewayne.comer@dot.state.ga.us](mailto:dewayne.comer@dot.state.ga.us)*  
*Georgia Department of Transportation*  
*500 Joe Frank Harris Parkway, S.E.*  
*P.O. Box 10*  
*Cartersville, Georgia 30120*  
*770-387-3602*

Any written request or communication in reference to this project or notice SHOULD include the PROJECT and P.I. NUMBERS as noted at the top of this notice.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
District 6

PROJECT CONCEPT REPORT

Project Number: STP-0000-00(476)

County: Cherokee

P. I. Number: 0000476

Federal Route Number: N/A

State Route Number: N/A

DESCRIPTION: Intersection Improvement of Holly Street and Hickory Road

Recommendation for approval:

DATE 5-12-05

Curtis D. Comer

Project Manager

DATE 12

11  
District 6 Preconstruction 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 \_\_\_\_\_

\_\_\_\_\_  
State Office of Financial Management Administrator

DATE \_\_\_\_\_

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

DATE 5-17-05

Theid Stela

State Traffic Safety and Design Engineer

DATE 5/12/05

Keith Day

District 6 Engineer

DATE \_\_\_\_\_

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

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
District 6

PROJECT CONCEPT REPORT

Project Number: STP-0000-00(476)

County: Cherokee

P. I. Number: 0000476

Federal Route Number: N/A

State Route Number: N/A

DESCRIPTION: Intersection Improvement of Holly Street and Hickory Road

Recommendation for approval:

DATE 5-12-05

Curtis D. Comer

Project Manager

DATE 11

11  
District 6 Preconstruction 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 \_\_\_\_\_

\_\_\_\_\_  
State Office of Financial Management Administrator

DATE 5.16.05

Shirley D. Taylor  
State Environmental/Location Engineer

DATE \_\_\_\_\_

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

DATE 5/12/05

Keith Day  
District 6 Engineer

DATE \_\_\_\_\_

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

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
District 6

PROJECT CONCEPT REPORT

Project Number: STP-0000-00(476)

County: Cherokee

P. I. Number: 0000476

Federal Route Number: N/A

State Route Number: N/A

DESCRIPTION: Intersection Improvement of Holly Street and Hickory Road

Recommendation for approval:

DATE 5-12-05

Curtis D. Comer

Project Manager

DATE 11

11  
District 6 Preconstruction 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 \_\_\_\_\_

\_\_\_\_\_  
State Office of Financial Management Administrator

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE 5/12/05

Keith Day  
District 6 Engineer

DATE 5/18/05

Bruce Summers REW  
State Project Review Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: STP-0000-00(476)

County: Cherokee

P. I. Number: 0000476

Federal Route Number: N/A

State Route Number: N/A

DESCRIPTION: Intersection Improvement of Holly Street and Hickory Road

Recommendation for approval:

DATE 5-12-05

Curtis D. Comer

Project Manager

DATE    

     
District 6 Preconstruction 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 5/24/05

Joseph P. Pelled

State Transportation Planning Administrator

DATE    

     
State Office of Financial Management Administrator

DATE    

     
State Environmental/Location Engineer

DATE    

     
State Traffic Safety and Design Engineer

DATE 5/12/05

Keith Day  
District 6 Engineer

DATE    

     
State Project Review Engineer

*Truck % not shown  
Accident types not shown - is there a specific issue?  
No mention of utility pole locations*