

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0004406, Coweta County **OFFICE** Preconstruction
MSL-0004-00(406)
Improvement of 4 Intersections within
Coweta County **DATE** August 28, 2006

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers
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BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE MSL-0004 -00(406) Coweta County **OFFICE** Road Design
P.I. No. 0004406 **DATE** August 17, 2006

FROM  **KDF**
Brent A. Story, P.E., State Road & Airport Design Engineer

TO Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT: Revised Project Concept Report

Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

This project entails the improvement of five intersections within Coweta County. The intersections are Witcher and Glover Roads at SR 16/US 27 Alt, Hammock Road at SR 154, Vaughn Road at SR 154, Tanglewood Road at SR 14/US 29, Hal Jones and Green Top Roads at SR 14/US 29. A revision is being requested that would eliminate the Witcher and Glover Road intersection with SR 16/ US 27 Alt. from the project. Coweta County is to improve this intersection with a county project with county resources. The remaining intersections are to be retained without modification to the concept.

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

BAS:MBM:ss

Attachment



State Transportation Planning Administrator

8/17/06

Date

Distribution:

Brian Summers, Project Review Engineer
Keith Golden, State Traffic Safety and Design Engineer
Harvey Keepler, State Environmental/Location Engineer
Joseph Palladi, State Transportation Planning Engineer
Jamie Simpson, State Financial Management Administrator
Thomas B. Howell, District Three Engineer

AUG 17 2006

Federal Oversight: Exempt

Functional Classification:

Witcher Road – Local Road
Glover Road – Local Road
SR 16/US 27 Alt – Principal Arterial

Hammock Road – Local Road
SR 154 – Minor Arterial

Vaughn Road – Local Road
SR 154 – Minor Arterial

Tanglewood Road – Local Road
SR 14/US 29 – Minor Arterial

Hal Jones Road – Local Road
Green Top Road – Local Road
SR 14/US 29 – Minor Arterial & Urban Minor Arterial

U. S. Route Number(s): 27 Alt, 29

State Route Number(s): 14, 16 & 154

Traffic (AADT):

Witcher Road – Current Year: (2008) 1,002 Design Year: (2028) 1,460
Glover Road – Current Year: (2008) 1,934 Design Year: (2028) 2,816
SR 16/US 27 Alt – Current Year: (2008) 16,024 Design Year: (2028) 23,330

Hammock Road – Current Year: (2008) 4,902 Design Year: (2028) 9,486
SR 154 – Current Year: (2008) 25,294 Design Year: (2028) 48,940

Vaughn Road – Current Year: (2008) 1,274 Design Year: (2028) 2,464
SR 154 – Current Year: (2008) 21,632 Design Year: (2028) 41,854

Tanglewood Road – Current Year: (2008) 760 Design Year: (2028) 1,538
SR 14/US 29 – Current Year: (2008) 19,668 Design Year: (2028) 39,824

Hal Jones Road – Current Year: (2008) 5,154 Design Year: (2028) 9,510
Green Top Road – Current Year: (2008) 3,512 Design Year: (2028) 6,508
SR 14/US 29 – Current Year: (2008) 18,630 Design Year: (2028) 34,378

Proposed features to be revised: The Witcher and Glover Roads @ SR 16/US 27 Alt. Intersection is being removed from the scope of the project at the request of Coweta County. The improvements at this intersection will be completed with 100% local funds provided by the county.

REVISED PROJECT CONCEPT REPORT

Need and Purpose: Need and Purpose statements are attached.

Project location: Project location maps are attached

Description of the approved concept:

Witcher & Glover Roads @ SR 16/US 27 Alt

This intersection is located in the northwest part of Coweta County, just north of Newnan. Witcher Road and Glover Road are two lane roadways with a posted speed of 45 MPH. State Route 16 is a two lane roadway with a posted speed of 55 MPH. Witcher Road and Glover Road are offset from each other at their intersection with SR 16. There is insufficient sight distance at the intersections of Witcher Road and Glover Road at SR 16. Because of the lack of turn lanes, the eastbound approach at the intersection of Witcher Road at SR 16 suffers excessive delay during the a.m. peak hour

Hammock Road @ SR 154

This intersection is located in the northeast part of Coweta County, north of Sharpsburg and east of Newnan. Hammock Road and SR 154 are two lane roadways with posted speed limits of 45 MPH within the project limits. The existing traffic control for this intersection is a stop signal for Hammock Road. Because of the lack of a traffic signal or turn lanes, the intersection operates at unacceptable Level of Service (LOS).

Vaughn Road @ SR 154

This intersection is located in the northeastern part of Coweta County, north of Sharpsburg and east of Newnan. Vaughn Road is a two lane roadway with a 35 MPH posted speed limit and SR 154 is a two lane roadway with a 45 MPH speed limit within the project limits. The existing traffic control for this intersection is a stop signal for Vaughn Road. The westbound approach suffers excessive delay during the a.m. and p.m. peak hours. In addition, there is an existing sight distance problem at the intersection.

Tanglewood Road @ SR 14/US 29

This intersection is located in the northern part of Coweta County, north of Newnan. Tanglewood Road is a two lane roadway with an assumed speed limit of 25 MPH. State Route 14/US 29 is a two lane roadway with a 55 MPH speed limit. The existing traffic control for this intersection is a stop sign for Tanglewood Road. The eastbound and westbound approaches to Tanglewood Road suffer critical delay during the a.m. and p.m. peak hour and there is insufficient sight distance at this intersection.

Hal Jones & Green Top Roads @ SR 14/US 29

These intersections are located in the northern part of Coweta County, just north of Newnan. Hal Jones Road and Green Top Road are two lane roadways with posted speeds of 45 MPH. State Route 14/US 29 is a two lane roadway with a 45 MPH posted speed limit. Green Top Road currently intersects SR 14/US 29 on a skewed angle which causes a sight distance problem and dangerous intersection. The westbound approach movements at the intersection of Green Top Road and SR 14/US 29 perform poorly during the a.m. and p.m. peak hour.

PDP Classification: Minor

Revised Features to be approved: The removal of the Witcher and Glover Roads @ SR 16/US 27 Alt improvement project from the scope of the project. The remaining four (4) intersections; Hammock Road @ SR 154; Vaughn Road @ SR 154; Tanglewood Road @ SR 14/US 29 and Hal Jones & Green Top Roads @ SR 14/US 29 are to remain in the scope of the project as originally approved on May 16, 2005.

Updated traffic data (AADT): Unchanged since approval on May 16,2005

Programmed/Schedule:

P.E: 8 Months

R/W: 7 Months

Construction: 12 months

Revised Cost Estimates:

The total estimated project cost as approved on May 16, 2005 for final concept approval was \$3,638,183

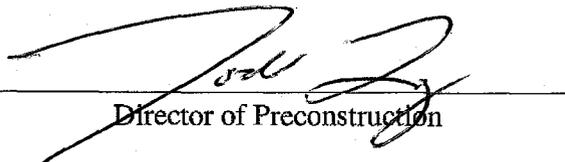
An updated estimated total project cost as submitted to Coweta County on June 1, 2006 was \$3,943,897

The revised total project cost with the Witcher and Glover Road @ SR 16/US 27 Alt. Intersection removed from the scope is estimated to be \$3,284,464

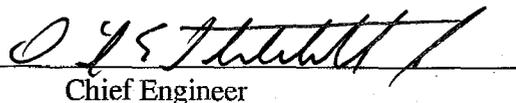
Is the project located in a Non-attainment area? No

Recommendation: Our recommendation is that the proposed revision to the concept be approved for implementation

Concur:


Director of Preconstruction

Approve:


Chief Engineer

**NEED AND PURPOSE STATEMENT
MSL-0004-00(406), COWETA COUNTY
P.I. NUMBER 0004406
WITCHER & GLOVER ROADS @ SR 16**

GENERAL PROJECT INFORMATION

Witcher Road is a two-lane roadway with a posted speed limit of 45 mph in the vicinity of SR 16. It runs primarily east-west from its intersection with SR 16 to its terminus at Macedonia Road. The adjacent developments are primarily low-density residential, commercial and undeveloped land.

Glover Road is a two-lane roadway with a posted speed limit of 45 mph in the vicinity of SR 16. It runs primarily east-west from its intersection with SR 16 to its terminus at Arco Road. The adjacent developments are primarily low-density residential and undeveloped land.

State Route 16 (SR 16) is a two-lane roadway with a posted speed limit of 55 mph in the vicinity of Witcher Road and Glover Road. It runs approximately north-south, running through downtown Newnan on the south and to Carrollton on the north. Bordering developments are primarily low-density residential, commercial and undeveloped land.

The project (CW-033A) is included in the 2030 Regional Transportation Plan and FY 2005-2010 Transportation Improvement Program, as air quality exempt.

DEFICIENCIES IN THE SYSTEM

Witcher Road and Glover Road are offset from each other at their intersection with SR 16. There is insufficient sight distance at the intersections of Witcher Road and Glover Road @ SR 16. Witcher Road currently intersects SR 16/US 27 on a skewed angle which needs to be corrected. The existing traffic control for this intersection are stop signs for both Witcher Road and Glover Road. Because of the lack of turn lanes, the eastbound approach at the intersection of Witcher Road @ SR 16 suffers excessive delay during the AM peak hour.

BUILD ALTERNATIVE

The proposed project would add a southbound left and northbound right turn lane onto Witcher Road, and a northbound left turn lane onto Glover Road. These lanes will help to resolve limited stopping sight distance issues at the intersection and improve the traffic flow.

NO BUILD ALTERNATIVE

Under the no-build alternate, the intersection would remain with no turn lanes, and with limited sight distance at both intersections.

**NEED AND PURPOSE STATEMENT
MSL-0004-00(406), COWETA COUNTY
P.I. NUMBER 0004406
HAMMOCK ROAD @ SR 154**

GENERAL PROJECT INFORMATION

Hammock Road is a two-lane roadway with a 45 mph posted speed limit in the vicinity of its intersection with SR 154. It runs primarily east and west between SR 154 and Posey Road. The adjacent developments are primarily low-density residential and undeveloped land.

State Route 154 (SR 154) is a two-lane roadway with a 45 mph posted speed limit in the vicinity of its intersection with Hammock Road. It runs approximately north-south, from SR 14 on the north to SR 54 on the south. Bordering developments are primarily low-density residential, commercial and undeveloped land.

The project (CW-033A) is included in the 2030 Regional Transportation Plan and FY 2005-2010 Transportation Improvement Program, as air quality exempt.

DEFICIENCIES IN THE SYSTEM

The existing traffic control for this intersection is a stop sign for Hammock Road. Because of the lack of a traffic signal or turn lanes, the intersection operates at unacceptable levels of service.

BUILD ALTERNATIVE

The proposed project would signalize the intersection, add a left turn lane northbound and right turn lanes southbound and eastbound.

NO BUILD ALTERNATIVE

Under the no-build alternate, the intersection would remain with no traffic signal or turn lanes.

**NEED AND PURPOSE STATEMENT
MSL-0004-00(406), COWETA COUNTY
P.I. NUMBER 0004406
VAUGHN ROAD @ SR 154**

GENERAL PROJECT INFORMATION

Vaughn Road is a two-lane roadway with a 35 mph posted speed limit in the vicinity of its intersection with SR 154. It runs primarily east and west between SR 154 and Andrew Bailey Road. The adjacent developments are primarily low-density residential and undeveloped land.

State Route 154 (SR 154) is a two-lane roadway with a 45 mph posted speed limit in the vicinity of its intersection with Vaughn Road. It runs approximately north-south, from SR 14 on the north to SR 54 on the south. Bordering developments are primarily low-density residential, commercial and undeveloped land.

The project (CW-033A) is included in the 2030 Regional Transportation Plan and FY 2005-2010 Transportation Improvement Program, as air quality exempt.

DEFICIENCIES IN THE SYSTEM

The existing traffic control for this intersection is a stop sign for Vaughn Road. The westbound approach suffers excessive delay during the AM and PM peak hour. In addition, there is an existing sight distance problem at the intersection.

BUILD ALTERNATIVE

The proposed project would add a southbound left and westbound right turn lane. These lanes will help to resolve limited stopping sight distance issues at the intersection and improve the traffic flow.

NO BUILD ALTERNATIVE

Under the no-build alternate, the intersection would remain with no turn lanes, and with limited sight distance at the intersection.

**NEED AND PURPOSE STATEMENT
MSL-0004-00(406), COWETA COUNTY
P.I. NUMBER 0004406
TANGLEWOOD @ SR 14/US 29**

GENERAL PROJECT INFORMATION

Tanglewood Road is a two-lane roadway with an assumed speed limit of 25 mph in the vicinity of SR 14/US 29. It runs north from SR 14/US 29 to its terminus approximately one mile later. The adjacent developments are primarily low-density residential and undeveloped land.

State Route 14/US 29 (SR 14/US 29) is a two-lane roadway with a 55 mph posted speed limit in the vicinity of Tanglewood Road. It runs approximately north-south, from downtown Newnan on the south and through Palmetto City on the north. Bordering developments are primarily low-density residential, commercial and undeveloped land.

The project (CW-033A) is included in the 2030 Regional Transportation Plan and FY 2005-2010 Transportation Improvement Program, as air quality exempt.

DEFICIENCIES IN THE SYSTEM

The existing traffic control for this intersection is a stop sign for Tanglewood Road. The eastbound and westbound approaches to Tanglewood Road suffer critical delay during the AM and PM peak hour. In addition, there is insufficient sight distance at the intersection.

BUILD ALTERNATIVE

The proposed project would add left turn lanes on SR 14/US 29 and right turn lanes on SR 14/US 29 and Tanglewood Road. These lanes will help to resolve limited stopping sight distance issues at the intersection and improve the traffic flow.

NO BUILD ALTERNATIVE

Under the no-build alternate, the intersection would remain with no turn lanes, and with limited sight distance at the intersection.

NEED AND PURPOSE STATEMENT

MSL-0004-00(406), COWETA COUNTY

P.I. NUMBER 0004406

HAL JONES & GREEN TOP ROADS @ SR 14/US 29

GENERAL PROJECT INFORMATION

Hal Jones Road is a two-lane roadway with a posted speed limit of 45 mph in the vicinity of SR 14/US 29. It runs primarily northwest-southeast between SR 14/US 29 and Frank Cook Road. The adjacent developments are primarily low-density residential and undeveloped land.

Green Top Road is a two-lane roadway that has a posted speed limit of 45 mph in the vicinity of SR 14/US 29. It runs approximately east and west between SR 14/US 29 and Herring Road. The adjacent developments are primarily low-density residential, commercial and undeveloped land.

Heritage Drive is a two-lane roadway which serves as the primary access for a residential subdivision that runs north and south. It has a posted speed limit of 30 mph in the vicinity of Green Top Road.

State Route 14/US 29 (SR 14/US 29) is a two-lane roadway with a 45 mph posted speed limit in the vicinity of Hal Jones Road and Green Top Road. It runs approximately north-south, from downtown Newnan on the south and through Palmetto on the north. Bordering developments are primarily low-density residential, commercial and undeveloped land.

The project (CW-033A) is included in the 2030 Regional Transportation Plan and FY 2005-2010 Transportation Improvement Program, as air quality exempt.

DEFICIENCIES IN THE SYSTEM

Green Top Road currently intersects SR 14/US 29 on a skewed angle which causes a sight distance problem and a dangerous intersection. The existing traffic control is stop signs for both Hal Jones Road and Green Top Road. The westbound approach movements at the intersection of Green Top Road at SR 14/US 29 perform poorly during the AM and PM peak hour.

BUILD ALTERNATIVE

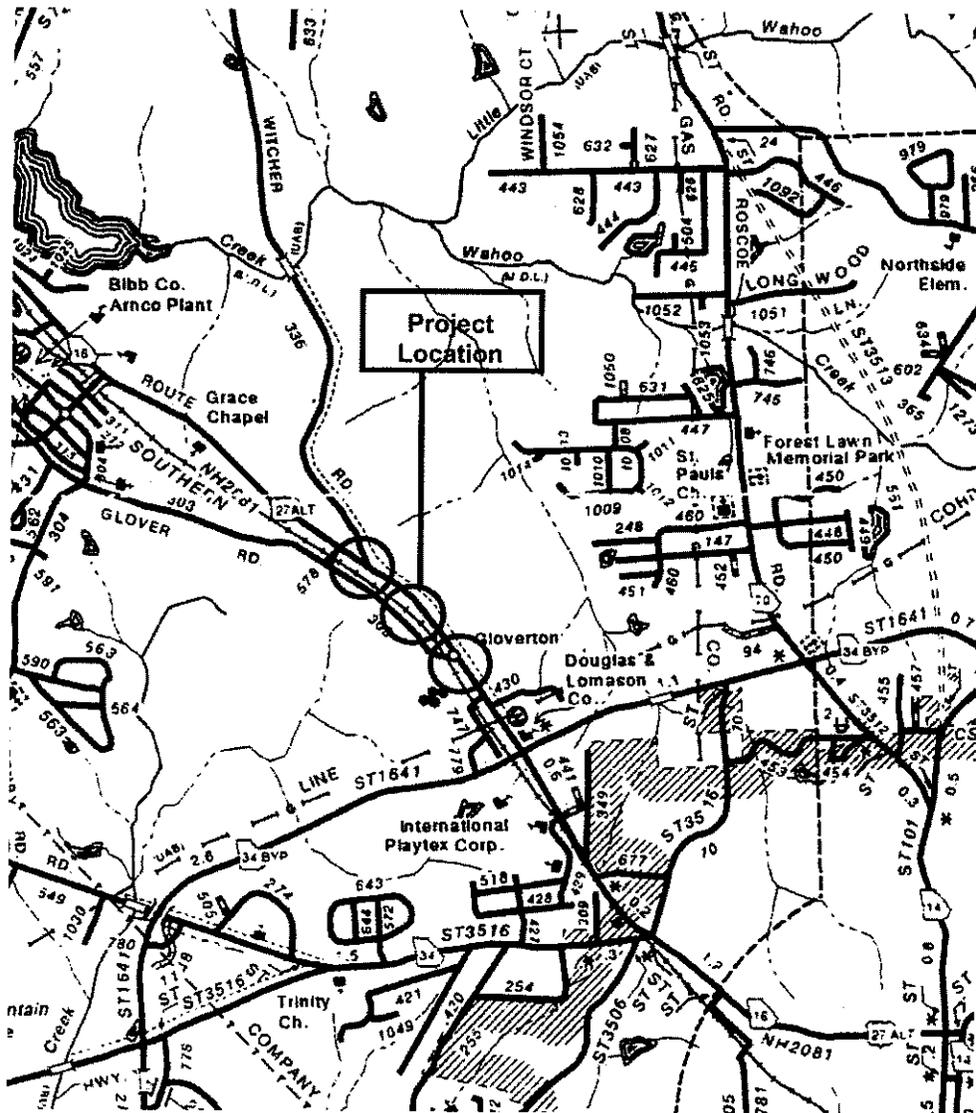
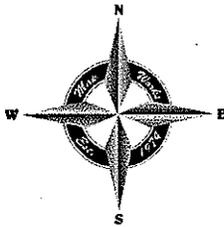
The proposed project would relocate Hal Jones and Green Top Roads approximately 800 feet north of their existing intersection with SR 14/US 29, extend Heritage Drive to SR 14/US 29, signalize the Hal Jones Road and Green Top Road intersection at SR 14/US 29, and add turn lanes at the approaches.

NO BUILD ALTERNATIVE

Under the no-build alternate, the intersection would remain skewed and operate with no traffic signal or turn lanes.

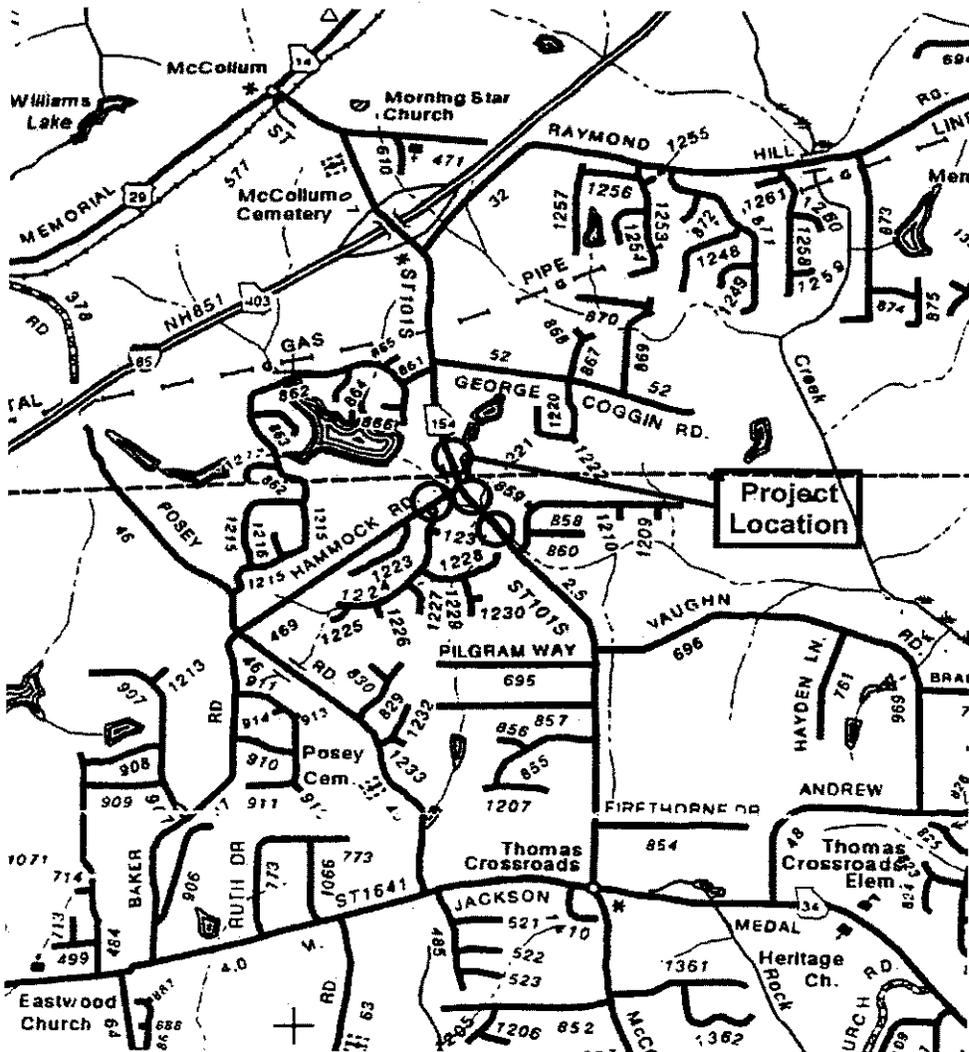
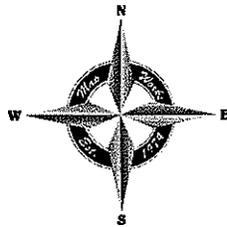
PROJECT LOCATION MAP
MSL-0004-00(406)

Witcher & Glover Roads @ SR 16



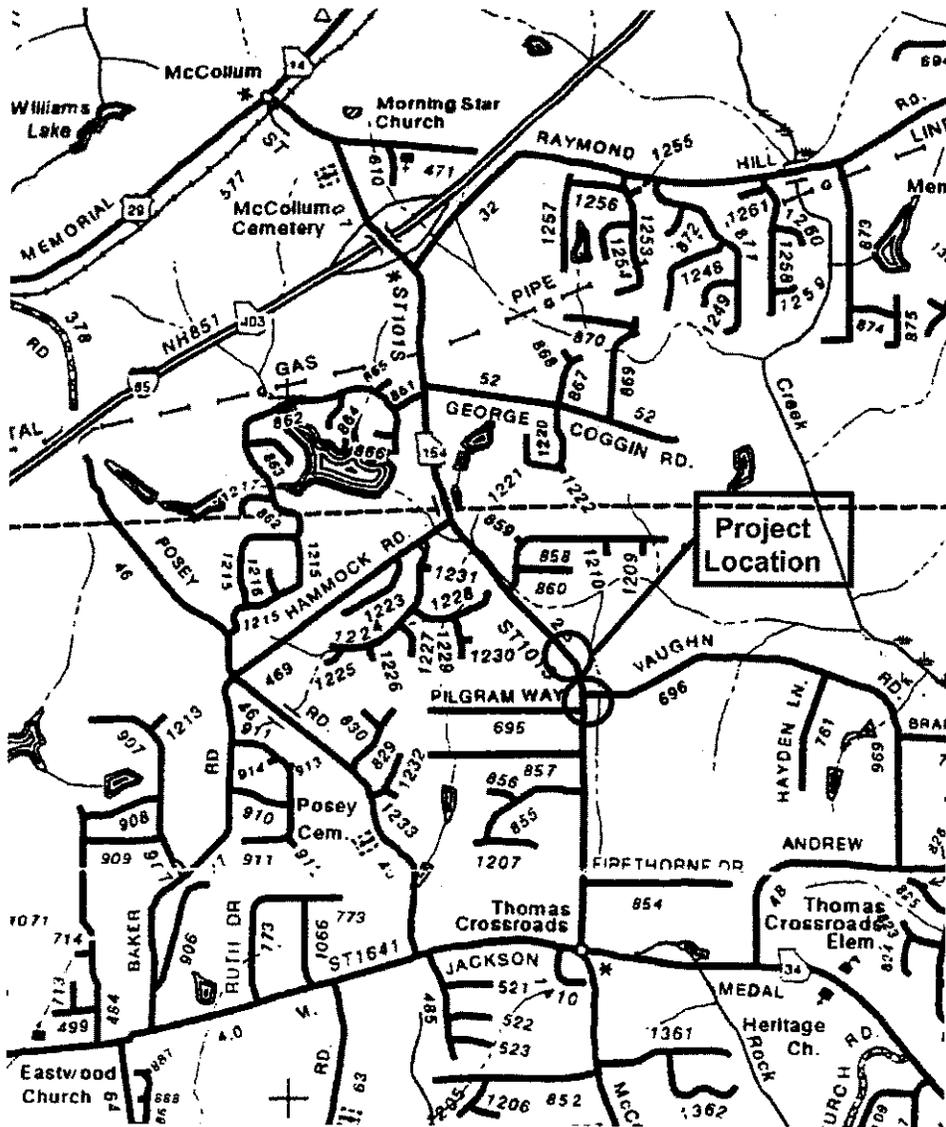
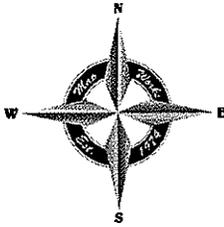
PROJECT LOCATION MAP
MSL-0004-00(406)

Hammock Road @ SR154



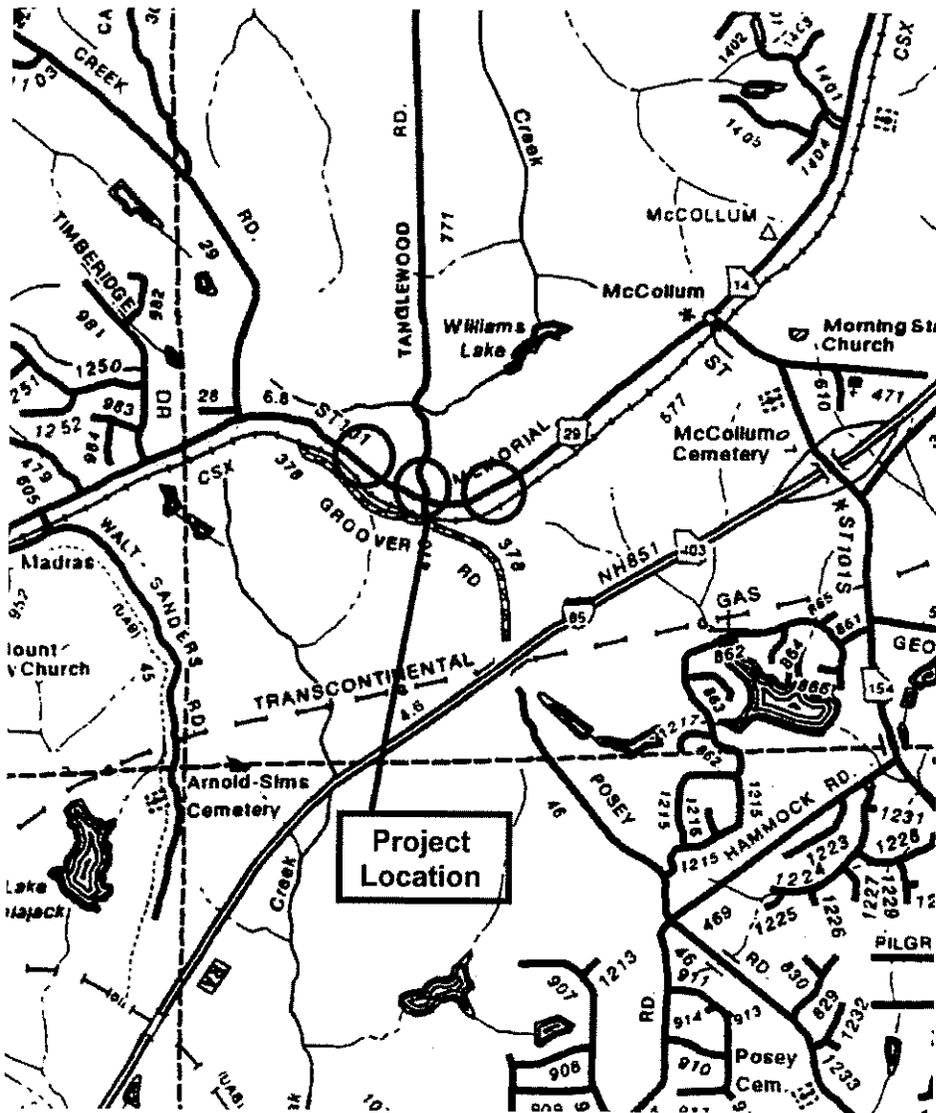
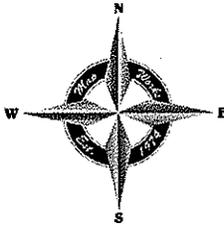
PROJECT LOCATION MAP
MSL-0004-00(406)

Vaughn Road @ SR 154



PROJECT LOCATION MAP
MSL-0004-00(406)

Tanglewood Road @ US 29



PROJECT LOCATION MAP
MSL-0004-00(406)

Hal Jones & Greentop Roads @ US 29

