

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MLS-0004-00(649) Rockdale County **OFFICE** Preconstruction
P. I. No. 0004649
Old Salem Road at McCalla Road **DATE** March 1, 2005

FROM *John J. [Signature]*
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

- David Mulling
- Harvey Keeper
- Ken Thompson
- Jamie Simpson
- Michael Henry
- Keith Golden
- Joe Palladi (file copy)
- Paul Liles
- Babs Abubakari
- Bryant Poole
- BOARD MEMBER

APPROVE
[Signature]
Paul V. Mullins, P.E., Chief Engineer

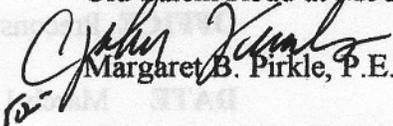
CONCUR
[Signature]
Thomas J. Turner, P.E., Director of Preconstruction

Attachment
MBP JDQg

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MLS-0004-00(649) Rockdale County **OFFICE** Preconstruction
P.I. No. 0004649
Old Salem Road at McCalla Road **DATE** January 25, 2005

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

TO Paul V. Mullins, Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project proposes improvements to the Old Salem Road at McCalla Road intersection in Rockdale County. Old Salem Road is a two lane rural facility providing access between residential and commercial areas in the southeast portion of Rockdale County. Base year traffic is 11,900 VPD with a projected volume of 21,400 VPD by the design year 2026. The posted speed for Old Salem Road is 45 MPH. McCalla Road is a two lane rural roadway with a posted speed limit of 25 MPH. Projected volumes are 4,100 VPD by the design year 2026. The proposed project will provide operational improvements at the Old Salem Road and McCalla Road intersection and allow it to operate at a satisfactory level of service for the 20 year projected traffic volumes.

The proposed construction will add dedicated left turn lanes on Old Salem Road onto McCalla Road and Evergreen Drive, and a right turn lane on McCalla Road onto Old Salem Road. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public meeting is not required; time saving procedures are appropriate.

The estimated costs for this project are:

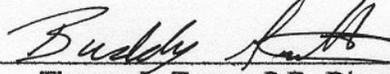
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$443,000	\$483,000	RRB	2006
Right-of-Way & Utilities*	Local	Local		

*Rockdale County signed PMA on 9-29-03 for PE, right-of-way, utilities and construction.

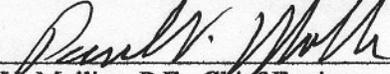
I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR 

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

APPROVE 

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

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: MSL-0004-00(649) Rockdale
P.I. Nos. 0004649
Old Salem Road at McCalla Road

OFFICE: Engineering Services

DATE: January 20, 2005

FROM: David Mulling, Project Review Engineer *REW*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted January 10, 2005 by the letter from Buddy Gratton dated December 15, 2004 and have no comments.

The costs for this project are:

Construction	\$383,145
Inflation	\$19,157
E&C	\$40,230
Reimbursable Utilities	\$50,000 (Rockdale Co.)
Right of Way	\$30,000 (Rockdale Co.)

REW

c: Bryant Poole, Attn. Michael Coleman

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

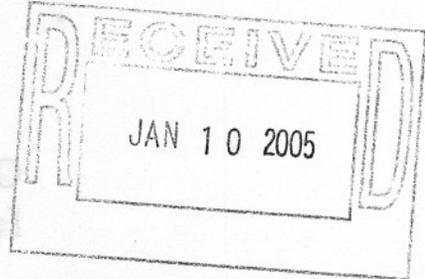
FILE MSL-0004-00(649), Rockdale County
Old Salem at McCalla Road
PI NO.: 0004649

OFFICE District Seven
Chamblee, GA
DATE December 15, 2004

FROM Buddy Gratton, P.E., Metro District Engineer

TO Meg Pirkle, Assistant Director of Preconstruction

SUBJECT Concept Report Review



Attached please find the concept report with attachments for the above referenced projects. This is for your review and further handling.

By copy of this letter, additional copies are being distributed to the list of names below for review and comment. Interdepartmental approval of the attached Concept Report should be submitted to the office of Meg Pirkle, Assistant Director of Preconstruction. If you have any questions or comments, please contact Michael Coleman at (770) 986-1050.

BG:WSL:mac

Attachments

Cc: Joe Palladi, State Transportation Planning Administrator
Harvey Keeper, State Environmental/Location Engineer
Phillip Allen, Traffic Safety and Design Engineer
David Mulling, Project Review Engineer
Jamie Simpson, Financial Management Administrator
File

(Faint mirrored text from reverse side of page)
DATE _____
DATE _____
DATE _____
DATE _____
DATE _____

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: MSL-0004-00(649)

County: Rockdale

P. I. Number: 0004649

Federal Route Number: None

State Route Number: Temp

Old Salem Road @ McCalla Road
Intersection Improvement Project

Recommendation for approval:

DATE 1/6/05

Mike Latta
Project Manager

DATE 1/6/05

Bryant Poole
District 7 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 Programming Engineer

DATE _____

State Environmental/Location Engineer

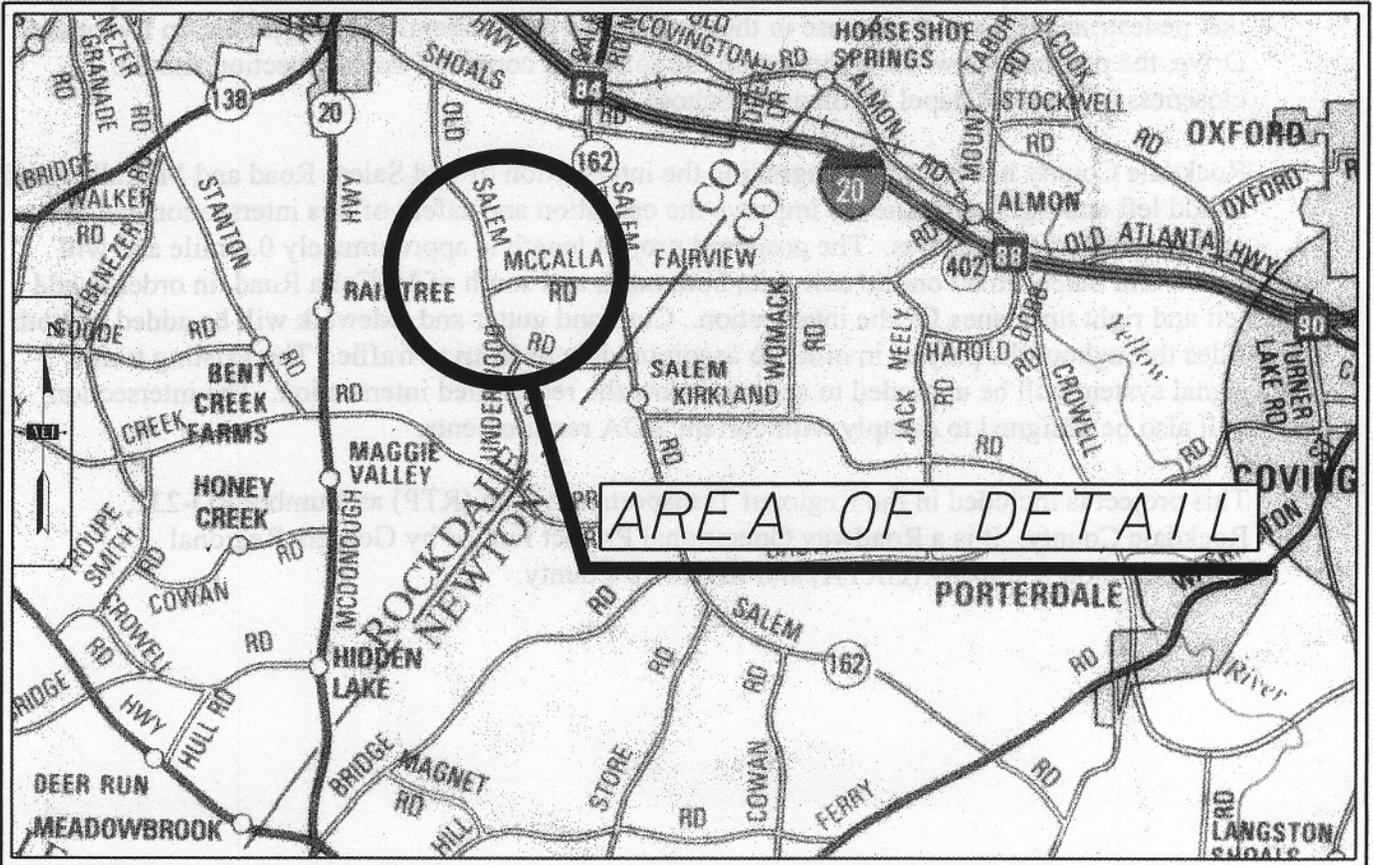
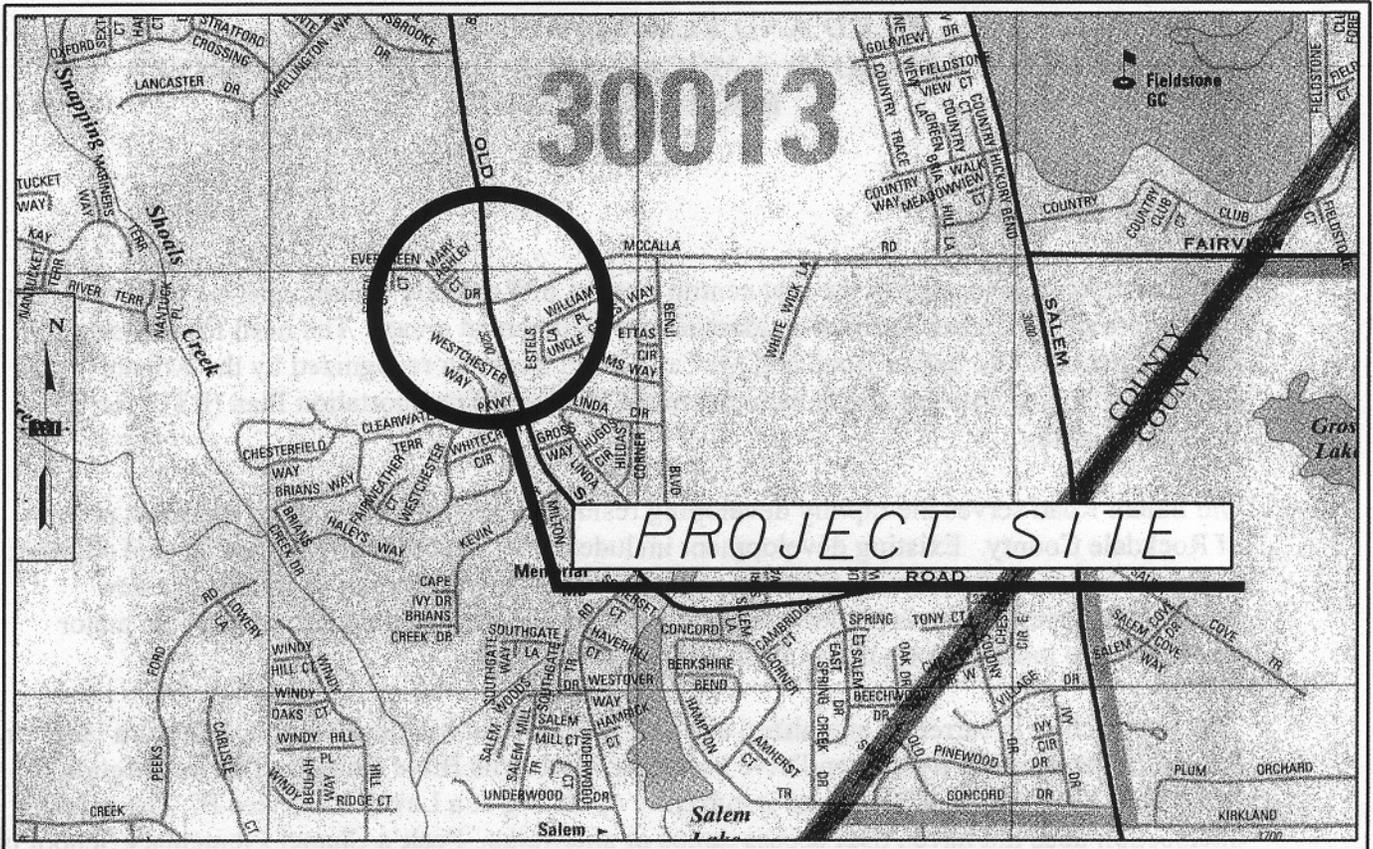
DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 004649
County: Rockdale



Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

NEED AND PURPOSE STATEMENT
OLD SALEM ROAD @ MCCALLA ROAD/EVERGREEN DRIVE
ROCKDALE COUNTY

Project Background:

Old Salem Road is located in the east central portion of Rockdale County and is a rural two-lane facility providing access between residential and commercial areas. The need for intersection improvements at Old Salem Road and McCalla Road has been recognized by the Atlanta Regional Planning Process and is included in the Regional Transportation Plan (RTP) for Rockdale County.

Old Salem Road serves the rapidly developing residential communities in the southeast portion of Rockdale County. Existing development includes older single family homes located adjacent to the facility as well as newly constructed single-family subdivisions. In addition, a new subdivision development is planned for the southeast quadrant of the intersection. No major employers are located along this portion of Old Salem Road.

This intersection is currently signalized and Old Salem Road has deceleration, right turn lanes on the southbound side at Evergreen Drive and Glenwood Hills Bible Church. The intersection of Old Salem Road and McCalla Road is currently operating at a Level of Service B. The existing intersection does not have ADA access ramps or sidewalks. Peek's Chapel Elementary School is located 0.5 mile east of Old Salem Road on the North side of McCalla Road. It is anticipated that pedestrian traffic will increase in this area due to the residential development on Evergreen Drive, the proposed new development on the southeast corner of the intersection and the closeness of Peek's Chapel Elementary School.

Rockdale County has proposed upgrading the intersection of Old Salem Road and McCalla Road to add left and right turn lanes to improve the operation and safety of this intersection and to provide pedestrian facilities. The proposed project length is approximately 0.4 mile and will widen Old Salem Road on the east side, both north and south of McCalla Road, in order to add left and right turn lanes for the intersection. Curb and gutter and sidewalk will be added on both sides throughout the project in order to accommodate pedestrian traffic. The existing traffic signal system will be upgraded to accommodate the redesigned intersection. The intersection will also be designed to comply with current ADA requirements.

This project is included in the Regional Transportation Plan (RTP) as Number RO-232, Rockdale County. It is a Roadway Operational Project funded by Georgia Regional Transportation Authority (GRTA) and Rockdale County.

Mobility and Congestion:

Existing Travel Demand: Currently Old Salem Road is operating at an Average Daily Traffic (ADT) of 11,300 north of McCalla Road and an ADT of 11,900 south of McCalla Road. McCalla Road has an ADT of 3,900 and Evergreen Drive has an ADT of 1,400.

Future Travel Demand: Travel demand on Old Salem Road will continue to increase due to projected land use for Rockdale and Newton Counties. The project yearly growth rate, based on historical trends and possible future development will exceed the functional capability of Old Salem Road. For this reason, it is appropriate to assume a maximum growth rate that would still be serviceable by improvements to the intersection without widening Old Salem Road to four lanes. With that in mind, it was determined that if traffic grew by a factor of 1.80, the intersection could still function. This equates to a 1.03 factor (3%) compounded for 20 years. The transportation plan developed by the Atlanta Regional Commission reflects this change in travel demand. Design traffic was developed for this project for 2006, the proposed construction year, and for 2026, the design year for the project. In 2006 the projected ADT for Old Salem Road is 12,000 north of McCalla Road and 12,600 south of McCalla Road. McCalla Road is projected at 4,100 ADT and Evergreen Drive is projected at 1,400 ADT. In the design year of 2026, the projected ADT for Old Salem Road is 20,300 north of McCalla Road and 21,400 south of McCalla Road. McCalla Road is projected at 7,000 ADT and Evergreen Drive is projected at 1,400 ADT.

By 2026, the traffic volumes will increase to 21,400 on Old Salem Road at McCalla Road. This project will allow the intersection to operate at Level of Service C (am design hour) and D (pm design hour) in 2026, provided the proposed project is implemented.

In the event that the project is not implemented, the intersection operation will reach breakdown condition by 2026.

Safety: The rapid growth in development in south Rockdale and west Newton Counties has not resulted in a significant increased rate of accidents for Old Salem Road to date. The table in Attachment 3 shows the accident data for the period from 10-17-00 to 8-18-03.

Multi-Modal Transit: No transit service is currently planned for the Old Salem Road corridor. However, the Georgia Regional Transportation Authority proposes to extend service along I-20 to SR 162, Salem Road. The availability of transit for this parallel corridor will provide residents of south Rockdale County and west Newton County with alternative transportation options.

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

Logical Termini:

The proposed project will extend from approximately 750 feet south of the Intersection with McCalla Road/Evergreen Drive to approximately 850 feet north of the intersection on Old Salem Road. It will also extend approximately 350 feet on McCalla Road. This will allow for proper tapers and the addition of left and right turn lanes.

Conclusion:

The proposed project is needed to serve increasing traffic volumes along Old Salem Road. The change in development from largely vacant land to residential development in both Rockdale and Newton Counties will continue to generate higher traffic volumes in the corridor. The increased travel demand will be served by the proposed improvements to Old Salem Road.

Proposed Project Description: Proposed improvements to this intersection are to add dedicated left turn lanes on Old Salem Road onto McCalla Road and Evergreen Drive, add a right turn lane on Old Salem Road onto McCalla Road and add a right turn lane on McCalla Road onto Old Salem Road. The widening of Old Salem Road will be accomplished on the east side of the existing road in order to minimize impacts to adjacent properties and to minimize utility conflicts. Lane widths will be 12 feet. Two traffic islands will be constructed on the east side of the intersection for traffic separation. The typical section is to be changed to an urban typical section with sidewalks, and colored, patterned concrete between back of curb and face of sidewalk. Please see attached concept drawing for further details.

The proposed project will provide operational improvements at the Old Salem Road and McCalla Road/Evergreen Drive Intersection and allow it to operate at a satisfactory level of service for the 20 year projected traffic volumes. It will also provide pedestrian access and safety through the intersection area.

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

PDP Classification: Major Minor

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

Functional Classification: Local Road System

U.S. Route Numbers: None **State Route Numbers:** Temp

Traffic (AADT):

Current Year: (2006) 11,900 Design Year: (2026) 21,400

Existing design features: Old Salem Road is a 2-lane rural roadway with portions of curb and gutter. Old Salem Road has a posted speed limit of 45 mph with 12 ft. driving lanes. At the

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

• **Environmental:**

- Conduct background research to determine the existence of potentially significant environmental concerns, such as historic resources, archaeological resources, wetlands, protected species, etc. in the area of environmental effect for the project.
- Prepare Early Notification letters for federal, state and local agencies and other parties interested in cultural resources in the area.
- Field survey the project area for all environmental concerns (wetlands/streams, protected species, historic resources, archaeological resources, etc.) to be addressed in a NEPA CE.
- Prepare an Ecology Report according to GDOT and FHWA standards and guidelines.
- Prepare a short form Phase I Archaeological Survey Report according to GDOT/FHWA/SHPO standards and guidelines.
- Prepare a Historic Resources Survey Report according to GDOT/FHWA and Georgia Department of Natural Resources - State Historic Preservation Office (SHPO) standards and guidelines.
- Prepare a CE according to NEPA guidelines for review and approval by GDOT and FHWA.

• **Right of way**

- Width 80 ft. min., 90 ft. max. – Old Salem Road
60 ft. min., 85 ft. max – McCalla Road
- Easements: Temporary (X), Permanent (), Utility (), Other ().
- Type of access control: Full (), Partial (), By Permit (X), Other ().
- Number of parcels: 2 Req'd R/W & Easements + 2 Easements Only
- Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

• **Structures:**

- Bridges: None
- Retaining walls: None

Project responsibilities:

- Design & Surveying: American Engineers, Inc. (AEI)
- Traffic & Signal Design: Street Smarts, Inc.
- Environmental: Edwards-Pitman Environmental, Inc.
- Geotechnical: Willmer Engineering Inc.

Project Concept Report
 Project Number: MSL-0004-00(649)
 P.I. Number: 0004649
 County: Rockdale

- Right-of-Way Acquisition: Rockdale County
- Relocation of Utilities: Utility Companies
- Supervision of Construction: Rockdale County
- Providing Material Pits: Contractor
- Providing Detours: None

Coordination

- Progress meeting date and brief summary: July 22, 2003. Minutes are included in this report as Attachment 7.

Rockdale County plans to hold 2 Public Information Meetings (PIM) for this project.

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: 4 Months (CE)
- Time to complete preliminary construction plans: 3 Months.
- Time to complete right of way plans: 2 Months.
- Time to complete the Section 404 Permit: N/A Months.
- Time to complete final construction plans: 2 Months.
- Time to complete to purchase right of way: 9 Months.

Other alternates considered:

- No Build alternate – This alternate does not improve the safety, efficiency and well being of the public.

Attachments:

1. Preliminary Construction Cost Estimate
2. Typical sections
3. Accident Summaries
4. Concept Plan
5. Project Schedule
6. Draft Traffic Summary Report by Street Smarts
7. Progress meeting minutes
8. Concept Meeting Minutes
9. Notice of Location and Design Approval

Project Concept Report
 Project Number: MSL-0004-00(649)
 P.I. Number: 0004649
 County: Rockdale

SCORING RESULTS AS PER TOPPS 2440-2

Project Number: MSL-0004-00(649)		County: Rockdale		PI No.: 0004649	
Report Date:		Concept By:			
		DOT Office: District 7			
<input checked="" type="checkbox"/> CONCEPT		Consultant: American Engineers, Inc.			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major	<input checked="" type="checkbox"/> Urban	<input type="checkbox"/> ATMS	
		<input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Rural	<input type="checkbox"/> Bridge	
				<input type="checkbox"/> Building	
				<input type="checkbox"/> Interchange	
				<input checked="" type="checkbox"/> Intersection	
				<input type="checkbox"/> Interstate	
				<input type="checkbox"/> New Location	
				<input type="checkbox"/> Widening & Reconstruction	
				<input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation					
Judgement					
Environmental					
Right of Way					
Utility					
Constructability					
Schedule					

ATTACHMENT 1

PRELIMINARY COST ESTIMATE

PROJECT: Old Salem Road & McCallis Road COUNTY: Rockdale

DATE: July 20, 2004 ESTIMATED LISTING DATE: 2004

Revised: August 9, 2004

Revised: September 8, 2004

Revised: September 21, 2004

PREPARED BY: American Engineers, Inc. PROJECT LENGTH (0.30 MI)

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$ 30,000
2. DISPLACEMENTS	\$ 0
3. OTHER COST (ADM. COST, INFLATION)	\$ 0
SUBTOTAL A:	\$ 30,000
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES	\$ 0
3. SERVICES - 12 in water main	\$ 20,000
SUBTOTAL B:	\$ 20,000
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	\$ 0
a. RETAINING WALLS	\$ 0
b. BRIDGES	\$ 0
c. DETOURS BRIDGES	\$ 0
d. BOX CULVERTS	\$ 0
SUBTOTAL C-1:	\$ 0

ATTACHMENT 1

PRELIMINARY COST ESTIMATE

PROJECT: Old Salem Road @ McCalla Road

COUNTY: Rockdale

DATE: July 20, 2004

ESTIMATED LETTING DATE: 2006

Revised: August 9, 2004

Revised: September 8, 2004

Revised: September 21, 2004

PREPARED BY: American Engineers, Inc.

PROJECT LENGTH (0.30 MI)

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

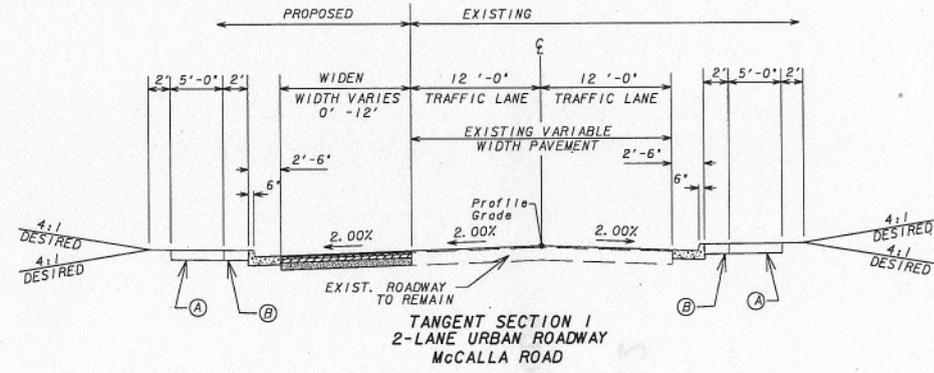
PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$ 30,000
2. DISPLACEMENTS; RES:0, BUS;0, M.H.:0	\$ 0
3. OTHER COST (ADM./COST, INFLATION)	\$ 0
SUBTOTAL:A	\$ 30,000
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES	\$ 0
3. SERVICES - 12 in water main	\$ 50,000
SUBTOTAL:B	\$ 50,000
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	\$ 0
a. RETAINING WALLS	\$ 0
b. BRIDGES	\$ 0
c. DETOURS BRIDGES	\$ 0
d. BOX CULVERTS	\$ 0
SUBTOTAL:C-1	\$ 0

2. GRADING AND DRAINAGE:			
a. EARTHWORK 3000 CY @ \$5.25			\$ 15,750
b. DRAINAGE:			
1) Cross Drain Pipe (exclude box culverts)			\$ 0
2) Curb and Gutter			\$ 25,845
3) Longitudinal System(include catch basins)			\$ 54,600
SUBTOTAL:C-2			\$ 96,195
3. BASE AND PAVING:			
a. AGGREGATE BASE			\$ 20,000
b. ASPHALT PAVING: Surface		\$35	\$ 9,090
Binder		\$39	\$ 16,860
Base		\$36	\$ 21,460
SUBTOTAL:C-3.b			\$ 47,410
c. CONCRETE PAVING			\$ 0
d. OTHER-			\$ 0
SUBTOTAL:C-3			\$ 67,410
4. LUMP ITEMS:			
a. TRAFFIC CONTROL			\$ 15,000
b. CLEARING AND GRUBBING			\$ 3,000
c. LANDSCAPING			\$ 40,000
d. EROSION CONTROL			\$ 6,000
e. DETOURS			\$ 0
SUBTOTAL:C-4			\$ 64,000
5. MISCELLANEOUS:			
a. CONCRETE ITEMS - SIDEWALK / CONCRETE STRIP			\$ 55,540
b. SIGNING - STRIPING - SIGNAL			\$ 100,000
c. GUARDRAIL			\$ 0
d. SIDEWALK - MEDIAN BARRIER			\$ 0
SUBTOTAL:C-5			\$ 155,540
6. SPECIAL FEATURES : N/A		SUBTOTAL:C-6	\$ 0

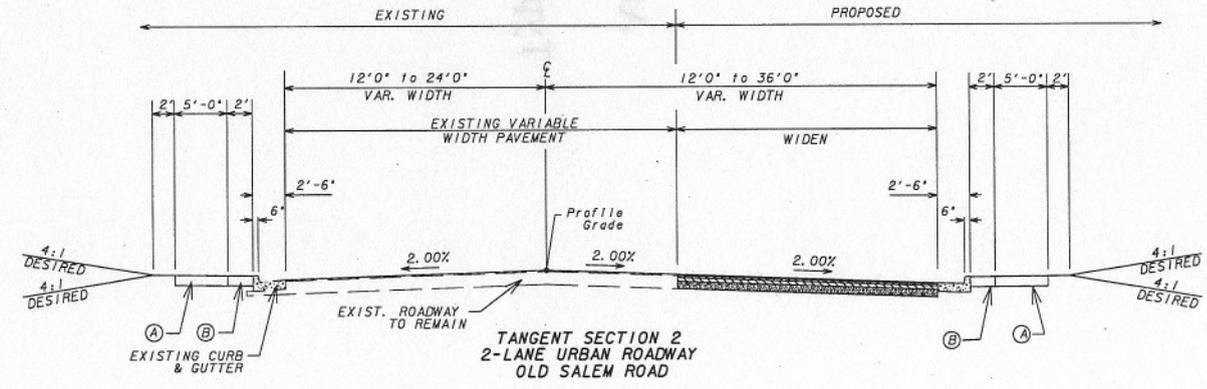
ESTIMATE SUMMARY

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		\$ 30,000
B. REIMBURSABLE UTILITIES		\$ 50,000
C. CONSTRUCTION		
1. MAJOR STRUCTURES		\$ 0
2. GRADING AND DRAINAGE		\$ 96,195
3. BASE AND PAVING		\$ 67,410
4. LUMP ITEMS		\$ 64,000
5. MISCELLANEOUS		\$ 155,540
6. SPECIAL FEATURES		\$ 0
SUBTOTAL CONSTRUCTION COST		\$ 383,145
CONTINGENCY (20%)		\$ 76,629
INFLATION (5% PER YEAR)		\$ 22,989
NUMBER OF YEARS	1 YEARS	
TOTAL CONSTRUCTION COST		\$ 482,763
GRAND TOTAL PROJECT COST		\$ 562,763

STATE	PROJECT NUMBER	SHEET TOTAL
GA.	ET06	NO. SHEETS



- (A) 5' SIDEWALK
- (B) 2' COLORED CONCRETE STAMPED W/PATTERN



PLANS PREPARED AND SUBMITTED BY:
AEI
 AMERICAN ENGINEERS, INC.
 34 LYNN LANE, SUITE 9
 LAWRENCE, MA 01840
 978-681-1111

NOT TO SCALE

DATE	REVISIONS	DATE	REVISIONS

ROCKDALE COUNTY DEPARTMENT
 OF TRANSPORTATION
 TYPICAL SECTIONS

ACCIDENT DATA
 Old Salem Road @ McCalla Road

Date	Time	Event	Collision	Surface	Dir Veb 1	Dir Veb 2
10/17/00	8:30 PM	Motor Vehicle in	Angle	Dry	N	N
10/17/00	8:30 PM	Motor Vehicle in	Angle	Dry	N	N
10/30/00	7:10 AM	Motor Vehicle in	Direction	Dry	E	E
01/27/01	12:50 PM	Motor Vehicle in	Rear End	Wet	E	E
02/27/01	7:35 PM	Motor Vehicle in	Opposite Direction	Wet	S	N
10/30/01	8:07 AM	Motor Vehicle in	Angle	Dry	N	W
12/07/01	8:02 AM	Motor Vehicle in	Rear End	Wet	S	S
01/01/02		Motor Vehicle in	Collision w/ Motor Veh	Dry	W	
02/02/02	8:10 AM	Motor Vehicle in	Rear End	Wet	S	S
11/02/02	4:31 PM	Motor Vehicle in	Rear End	Wet	E	E
11/28/03	8:10 PM	Motor Vehicle in	Angle	Wet	S	W
12/19/03	7:22 PM	Door	Collision w/ Motor Veh	Dry	E	
02/17/04	4:58 AM	Door	Collision w/ Motor Veh	Wet	S	
11/11/03	5:12 PM	Motor Vehicle in	Angle	Dry	E	W
11/12/03	8:08 PM	Door	Collision w/ Motor Veh	Dry	E	
01/03/03	7:47 AM	Post	Collision w/ Motor Veh	Dry	E	

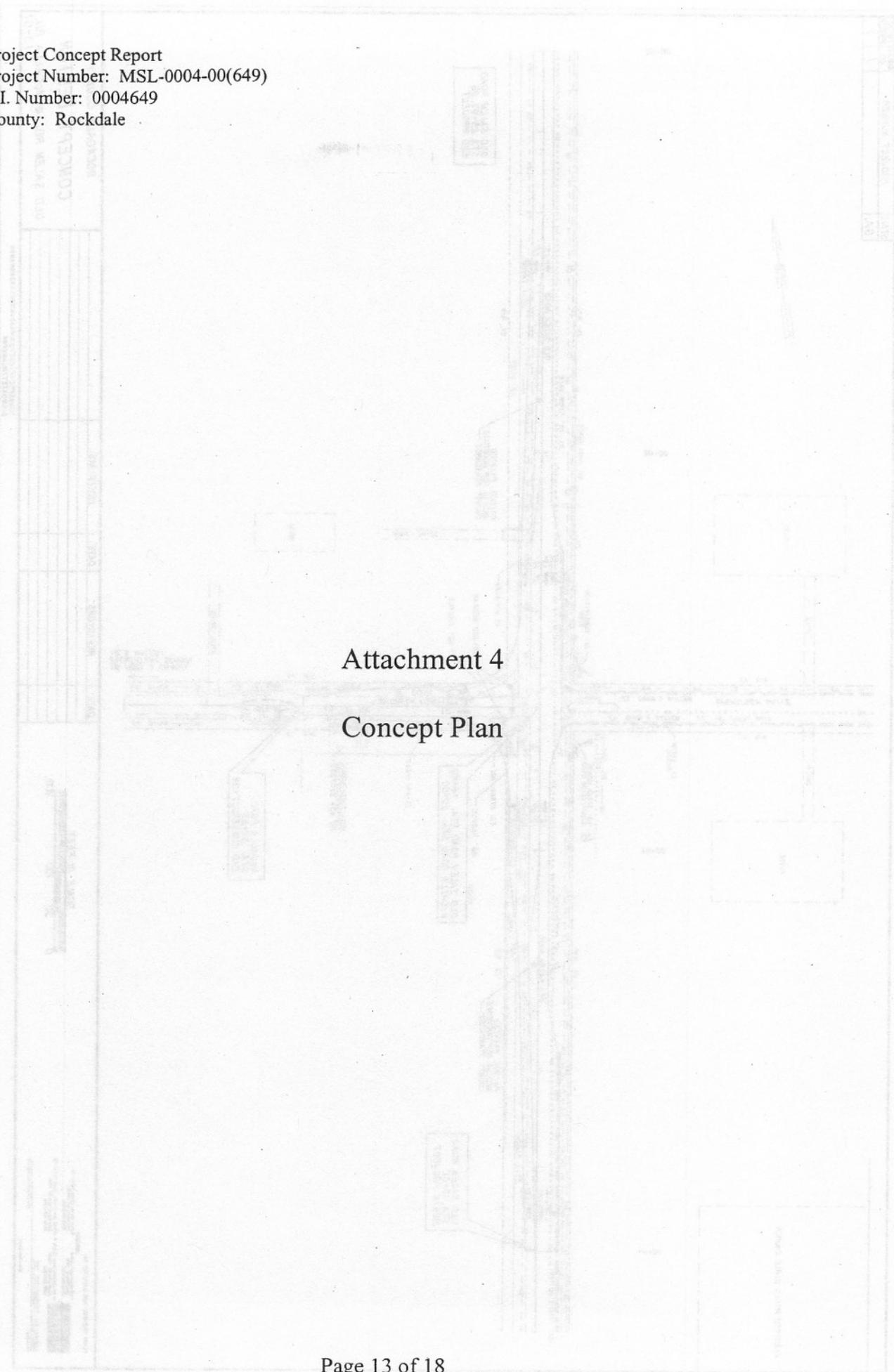
Attachment 3

Accident Summaries

ACCIDENT DATA
Old Salem Road @ McCalla Road

Date	Time	Harmful Event	Collision	Surface	Dir Veh 1	Dir Veh 2
10/17/00	8:30 PM	Motor Vehicle in Motion	Angle	Dry	N	N
10/17/00	8:30 PM	Motor Vehicle in Motion	Angle	Dry	N	N
10/3/00	7:10 AM	Motor Vehicle in Motion	Sideswipe - Same Direction	Dry	E	E
3/12/01	12:50 PM	Motor Vehicle in Motion	Rear End	Wet	E	E
6/22/01	7:32 PM	Motor Vehicle in Motion	Sideswipe - Opposite Direction	Wet	S	N
10/30/01	9:07 AM	Motor Vehicle in Motion	Angle	Dry	N	W
12/10/01	8:02 AM	Motor Vehicle in Motion	Rear End	Wet	S	S
2/4/01	11:57 PM	Deer	Not A Collision w/ A Motor Veh	Dry	W	
2/26/02	8:15 AM	Motor Vehicle in Motion	Rear End	Wet	S	S
11/5/02	4:31 PM	Motor Vehicle in Motion	Rear End	Wet	E	E
1/29/03	8:10 PM	Motor Vehicle in Motion	Angle	Wet	S	W
12/19/03	7:22 PM	Deer	Not A Collision w/ A Motor Veh	Dry	E	
2/27/03	4:58 AM	Deer	Not A Collision w/ A Motor Veh	Wet	S	
11/11/03	5:12 PM	Motor Vehicle in Motion	Angle	Dry	E	W
11/12/03	8:06 PM	Deer	Not A Collision w/ A Motor Veh	Dry	E	
8/18/03	7:47 AM	Highway Traffic Sign Post	Not A Collision w/ A Motor Veh	Dry	E	

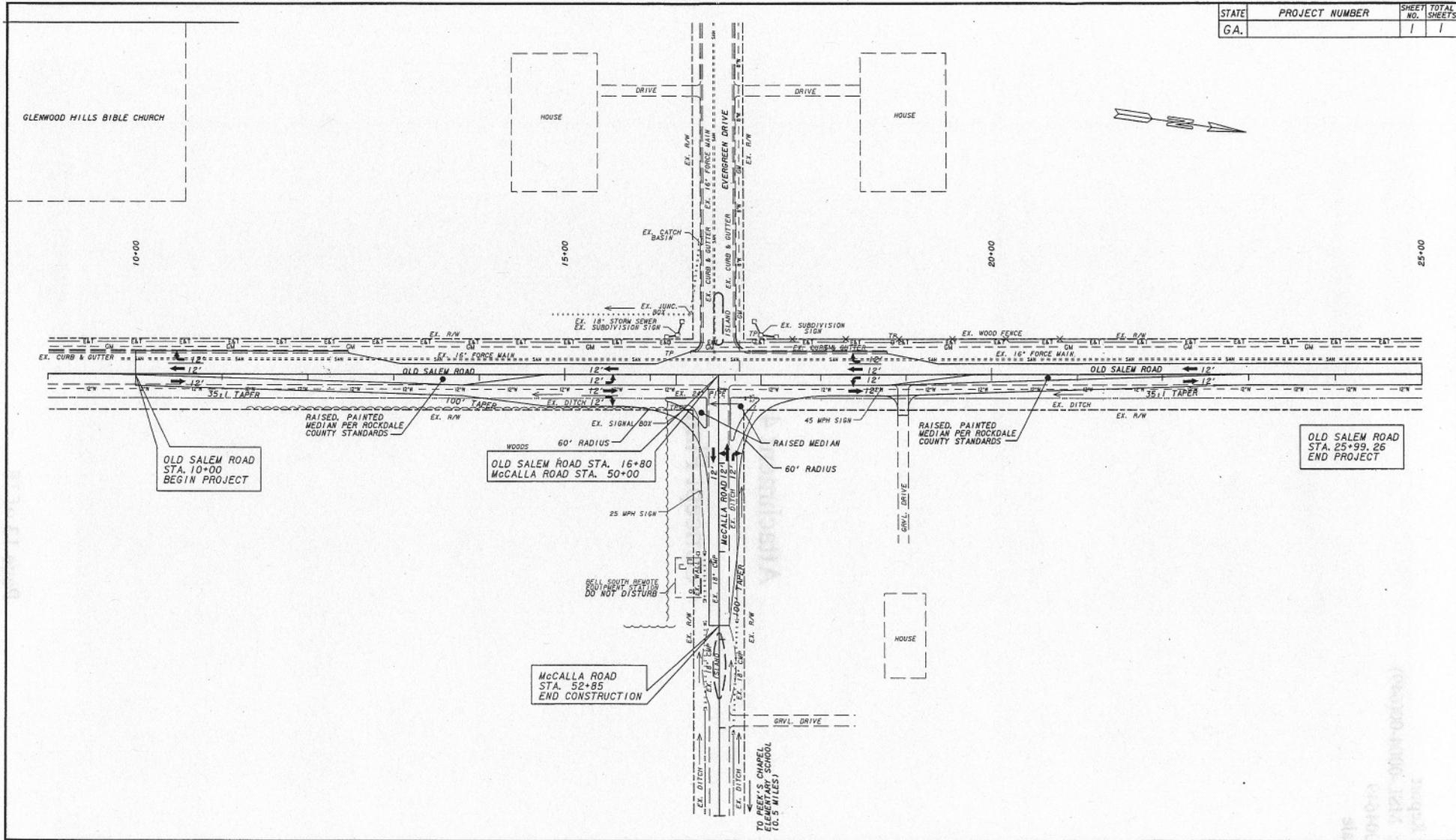
Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale



Attachment 4

Concept Plan

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		1	1



OLD SALEM ROAD
STA. 10+00
BEGIN PROJECT

OLD SALEM ROAD STA. 16+80
McCALLA ROAD STA. 50+00

McCALLA ROAD
STA. 52+85
END CONSTRUCTION

OLD SALEM ROAD
STA. 25+99.26
END PROJECT

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.

© 88 American Drive
Lawrenceville, GA 30046
770-962-7222

© 78 Lyndon Lane, Suite 3
Lawrenceville, GA 30046
770-962-7222

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REGISTERED PROFESSIONAL ENGINEER



DATE	REVISIONS	DATE	REVISIONS

ROCKDALE COUNTY
CONCEPT DESIGN
OLD SALEM RD. @ McCALLA RD.
13-01

DDMSPECIFICATION#####
SHOWDATE#ME#####

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

Attachment 5

Project Schedule

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

Attachment 6

Draft Traffic Report by Street Smarts

TECHNICAL MEMORANDUM

To: Lem Dobbs, P.E.

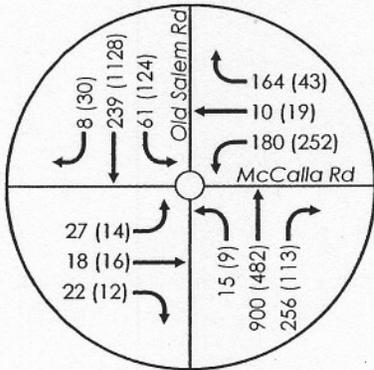
From: John Karnowski, P.E.

Date: August 16, 2004

RE: Old Salem Road at McCalla Road
Traffic Analysis

The procedures used in this analysis are based on the Highway Capacity Manual and the Georgia D.O.T.' "Regulations for Driveway and Encroachment Control."

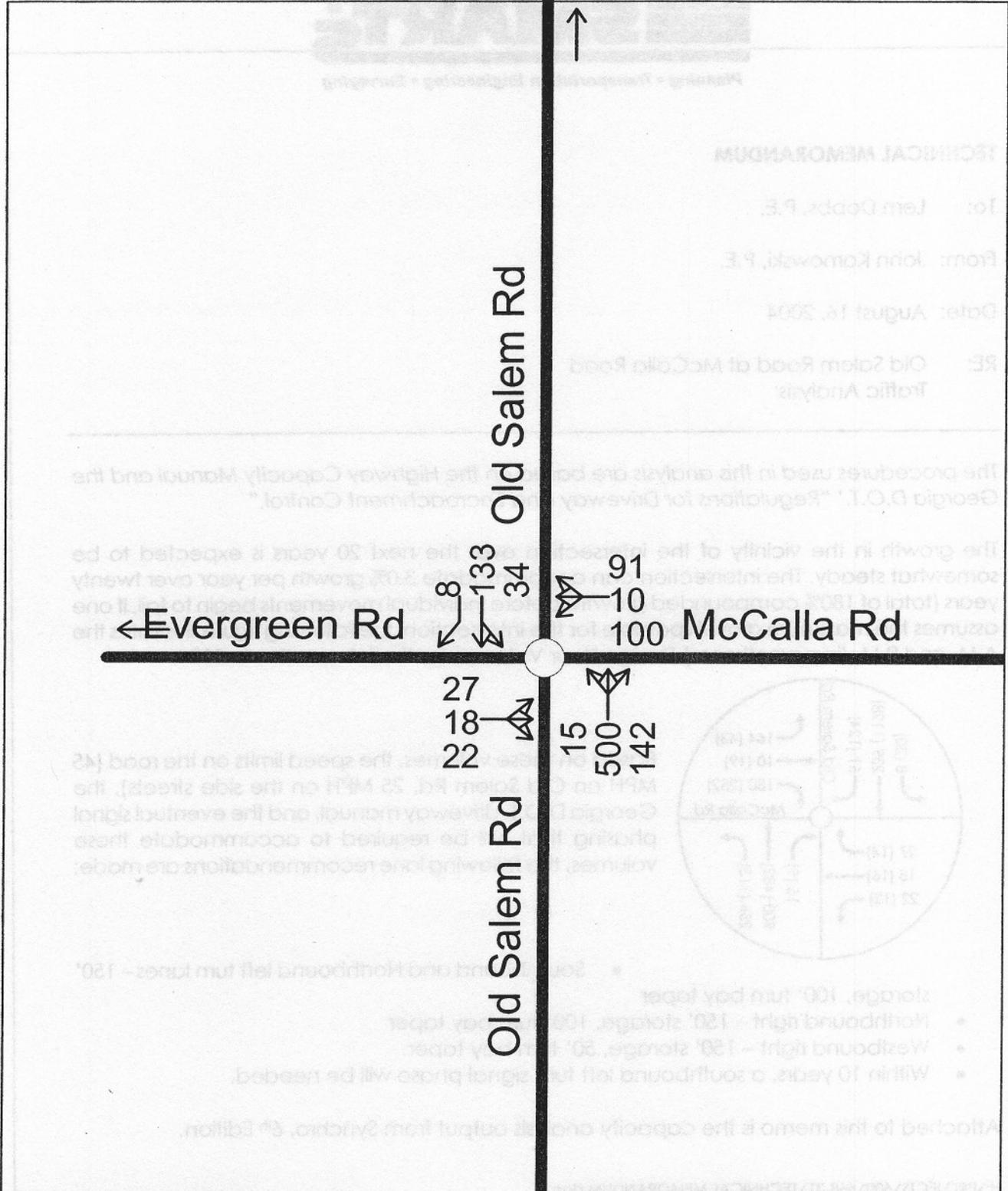
The growth in the vicinity of the intersection over the next 20 years is expected to be somewhat steady. The intersection can accommodate 3.0% growth per year over twenty years (total of 180% compounded growth) before individual movements begin to fail. If one assumes the maximum growth possible for the intersection, the following figure illustrates the A.M. and P.M. (in parentheses) Design Hour Volumes for the intersection in 2024.



Based on these volumes, the speed limits on the road (45 MPH on Old Salem Rd, 25 MPH on the side streets), the Georgia D.O.T. driveway manual, and the eventual signal phasing that will be required to accommodate these volumes, the following lane recommendations are made:

- Southbound and Northbound left turn lanes – 150' storage, 100' turn bay taper
- Northbound right – 150' storage, 100' turn bay taper
- Westbound right – 150' storage, 50' turn bay taper
- Within 10 years, a southbound left turn signal phase will be needed.

Attached to this memo is the capacity analysis output from Synchro, 6th Edition.



Existing Conditions - AM Peak Hour

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jk

Lanes, Volumes, Timings
3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↕			↕			↕			↕		↕
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50		50	50		50	50		50	50	50
Trailing Detector (ft)	0	0		0	0		0	0		0	0	0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fr _t		0.956			0.939			0.971				0.850
Fl _t Protected		0.980			0.976			0.999			0.990	
Satd. Flow (prot)	0	1780	0	0	1725	0	0	1825	0	0	1862	1615
Fl _t Permitted		0.850			0.805			0.992			0.816	
Satd. Flow (perm)	0	1544	0	0	1423	0	0	1812	0	0	1535	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		26			71			38				10
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		1536			3504			2560			2352	
Travel Time (s)		41.9			95.6			38.8			35.6	
Volume (vph)	27	18	22	100	10	91	15	500	142	34	133	8
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	0%	0%	0%	1%	0%	1%	0%	1%	1%	1%	1%	0%
Adj. Flow (vph)	32	21	26	119	12	108	18	595	169	40	158	10
Lane Group Flow (vph)	0	79	0	0	239	0	0	782	0	0	198	10
Turn Type	Perm			Perm			Perm			Perm		Perm
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		6
Detector Phases	4	4		8	8		2	2		6	6	6
Minimum Initial (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	4.0
Minimum Split (s)	22.0	22.0		22.0	22.0		22.0	22.0		22.0	22.0	22.0
Total Split (s)	22.0	22.0	0.0	22.0	22.0	0.0	38.0	38.0	0.0	38.0	38.0	38.0
Total Split (%)	36.7%	36.7%	0.0%	36.7%	36.7%	0.0%	63.3%	63.3%	0.0%	63.3%	63.3%	63.3%
Maximum Green (s)	16.0	16.0		16.0	16.0		32.0	32.0		32.0	32.0	32.0
Yellow Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	4.0
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		Min	Min		Min	Min	Min
Walk Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	5.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	0
Act Effct Green (s)		13.0			13.0			30.5			30.5	30.5
Actuated g/C Ratio		0.25			0.25			0.59			0.59	0.59
v/c Ratio		0.19			0.58			0.72			0.22	0.01
Control Delay		12.0			15.0			12.1			6.5	3.4
Queue Delay		0.0			0.0			0.0			0.0	0.0
Total Delay		12.0			15.0			12.1			6.5	3.4
LOS		B			B			B			A	A
Approach Delay		12.0			15.0			12.1			6.3	

Lanes, Volumes, Timings
 3: Evergreen Rd & Old Salem Rd

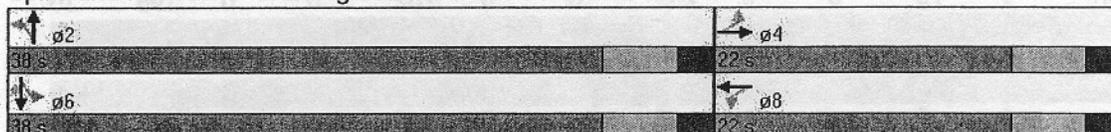
8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		B			B			B			A	
Queue Length 50th (ft)		11			39			136			24	0
Queue Length 95th (ft)		37			96			267			56	5
Internal Link Dist (ft)		1456			3424			2480			2272	
Turn Bay Length (ft)												
Base Capacity (vph)		514			506			1143			956	1010
Starvation Cap Reductn		0			0			0			0	0
Spillback Cap Reductn		0			0			0			0	0
Storage Cap Reductn		0			0			0			0	0
Reduced v/c Ratio		0.15			0.47			0.68			0.21	0.01

Intersection Summary

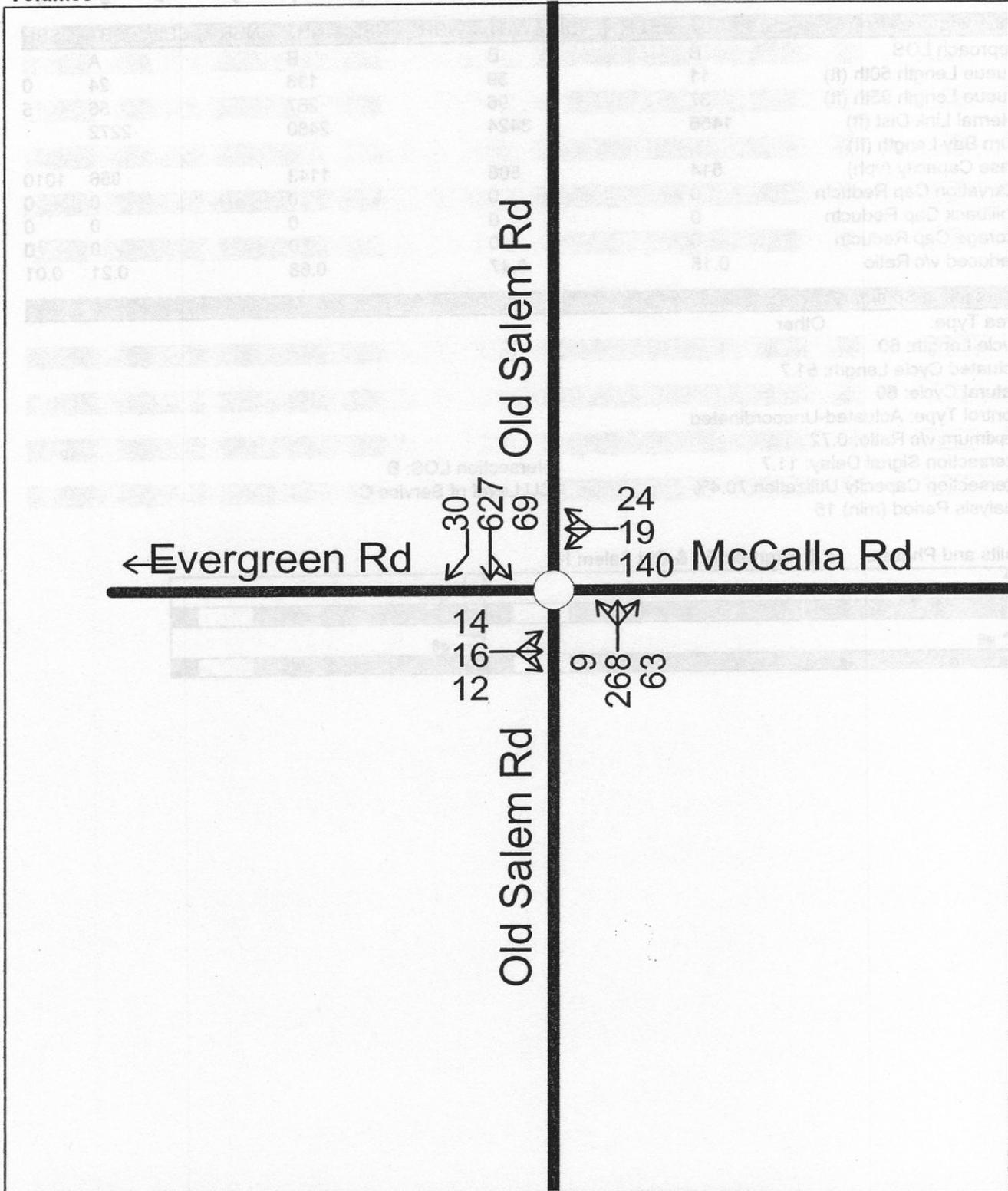
Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 51.7
 Natural Cycle: 60
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.72
 Intersection Signal Delay: 11.7
 Intersection Capacity Utilization 70.4%
 Analysis Period (min) 15
 Intersection LOS: B
 ICU Level of Service C

Splits and Phases: 3: Evergreen Rd & Old Salem Rd



Map - Existing Conditions
Volumes

8/16/2004



Existing Conditions - PM Peak Hour

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jk

Page 2

Lanes, Volumes, Timings
 3: Evergreen Rd & Old Salem Rd

8/16/2004



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		B			B			B			A	
Queue Length 50th (ft)		11			39			136			24	
Queue Length 95th (ft)		37			96			267			56	
Internal Link Dist (ft)		1456			3424			2480			2272	
Turn Bay Length (ft)												
Base Capacity (vph)		514			506			1143			956	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.15			0.47			0.68			0.21	

Intersection Summary

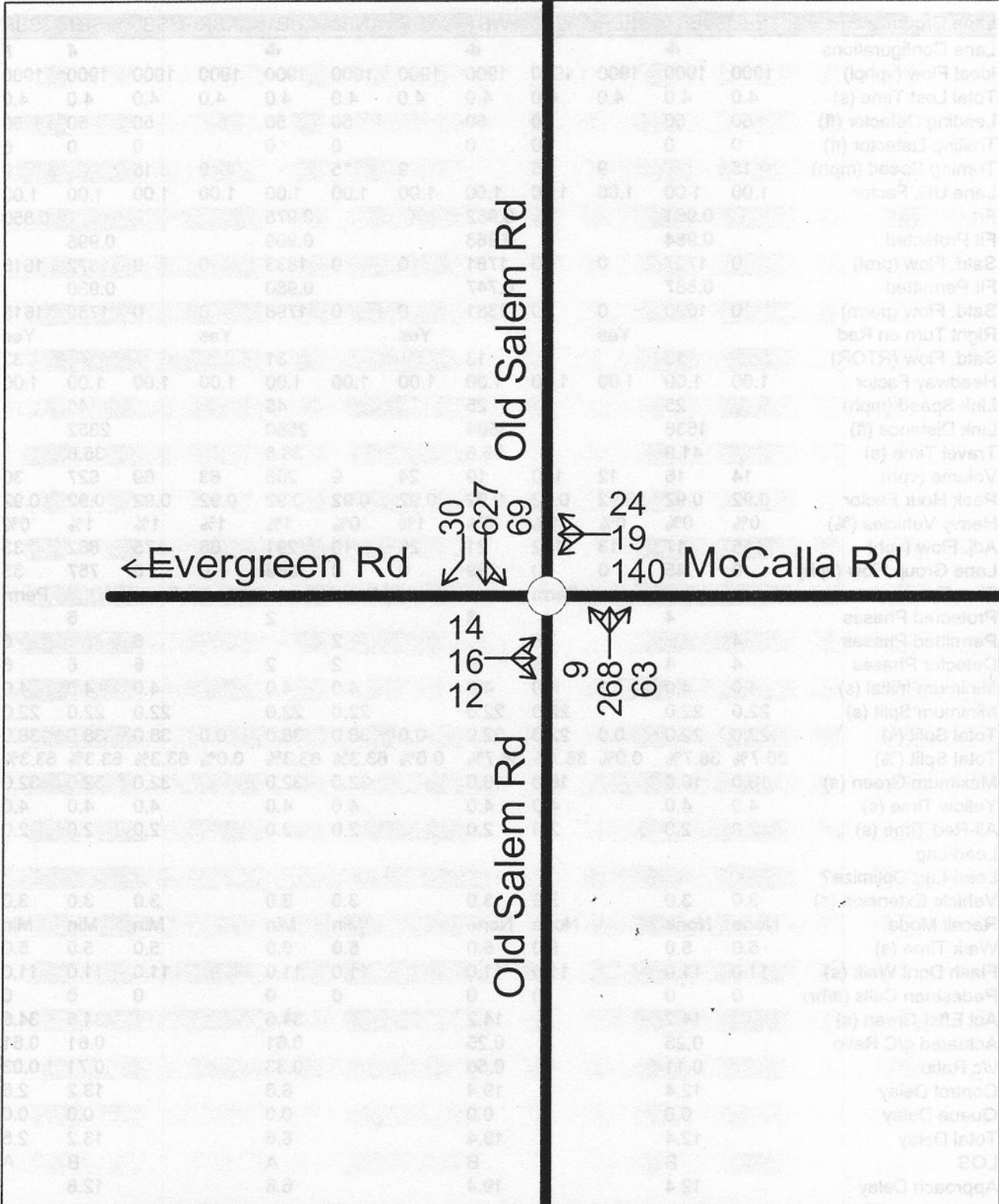
Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 51.7
 Natural Cycle: 60
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.72
 Intersection Signal Delay: 11.7
 Intersection LOS: B
 Intersection Capacity Utilization 70.4%
 ICU Level of Service C
 Analysis Period (min) 15

Splits and Phases: 3: Evergreen Rd & Old Salem Rd

↑ ø2 38 s	→ ø4 22 s
↓ ø6 38 s	← ø8 22 s

Map - Existing Conditions
Volumes

8/16/2004



Existing Conditions - PM Peak Hour

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Lanes, Volumes, Timings
3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	↗
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50		50	50		50	50		50	50	50
Trailing Detector (ft)	0	0		0	0		0	0		0	0	0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.961			0.982			0.975				0.850
Flt Protected		0.984			0.963			0.999			0.995	
Satd. Flow (prot)	0	1797	0	0	1781	0	0	1833	0	0	1872	1615
Flt Permitted		0.887			0.747			0.980			0.930	
Satd. Flow (perm)	0	1620	0	0	1381	0	0	1798	0	0	1750	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		13			13			31				33
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		1536			3504			2560			2352	
Travel Time (s)		41.9			95.6			38.8			35.6	
Volume (vph)	14	16	12	140	19	24	9	268	63	69	627	30
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	0%	0%	1%	0%	1%	0%	1%	1%	1%	1%	0%
Adj. Flow (vph)	15	17	13	152	21	26	10	291	68	75	682	33
Lane Group Flow (vph)	0	45	0	0	199	0	0	369	0	0	757	33
Turn Type	Perm			Perm			Perm			Perm		Perm
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		6
Detector Phases	4	4		8	8		2	2		6	6	6
Minimum Initial (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	4.0
Minimum Split (s)	22.0	22.0		22.0	22.0		22.0	22.0		22.0	22.0	22.0
Total Split (s)	22.0	22.0	0.0	22.0	22.0	0.0	38.0	38.0	0.0	38.0	38.0	38.0
Total Split (%)	36.7%	36.7%	0.0%	36.7%	36.7%	0.0%	63.3%	63.3%	0.0%	63.3%	63.3%	63.3%
Maximum Green (s)	16.0	16.0		16.0	16.0		32.0	32.0		32.0	32.0	32.0
Yellow Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	4.0
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		Min	Min		Min	Min	Min
Walk Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	5.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	0
Act Effct Green (s)		14.2			14.2			34.6			34.6	34.6
Actuated g/C Ratio		0.25			0.25			0.61			0.61	0.61
v/c Ratio		0.11			0.56			0.33			0.71	0.03
Control Delay		12.4			19.4			6.6			13.2	2.5
Queue Delay		0.0			0.0			0.0			0.0	0.0
Total Delay		12.4			19.4			6.6			13.2	2.5
LOS		B			B			A			B	A
Approach Delay		12.4			19.4			6.6			12.8	

Lanes, Volumes, Timings
 3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		B			B			A			B	
Queue Length 50th (ft)		7			47			47			150	0
Queue Length 95th (ft)		28			108			103			#327	9
Internal Link Dist (ft)		1456			3424			2480			2272	
Turn Bay Length (ft)												
Base Capacity (vph)		495			423			1137			1095	1023
Starvation Cap Reductn		0			0			0			0	0
Spillback Cap Reductn		0			0			0			0	0
Storage Cap Reductn		0			0			0			0	0
Reduced v/c Ratio		0.09			0.47			0.32			0.69	0.03

Intersection Summary

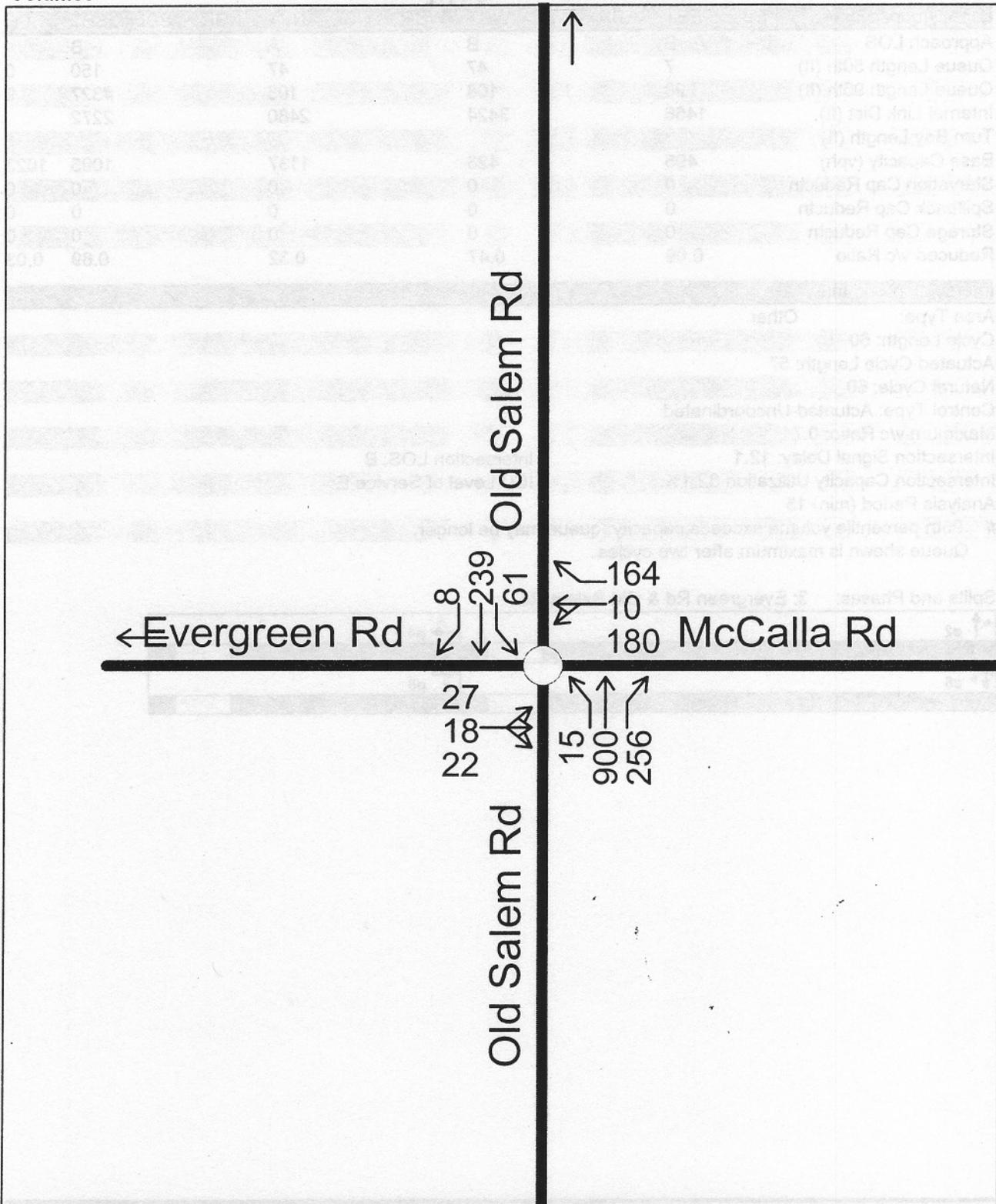
Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 57
 Natural Cycle: 60
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.71
 Intersection Signal Delay: 12.1
 Intersection LOS: B
 Intersection Capacity Utilization 82.1%
 ICU Level of Service E
 Analysis Period (min) 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 3: Evergreen Rd & Old Salem Rd

← ↑ ø2	→ ↑ ø4
38 s	22 s
↓ ↓ ø6	← ↓ ø8
38 s	22 s

Map - Design Alternative - 20 yr Horizon
 Volumes

8/16/2004



Lanes, Volumes, Timings
3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕	↗	↘	↕	↗	↘	↕	↗
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50		50	50	50	50	50	50	50	50	50
Trailing Detector (ft)	0	0		0	0	0	0	0	0	0	0	0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.956				0.850			0.850			0.850
Flt Protected		0.980			0.955		0.950			0.950		
Satd. Flow (prot)	0	1780	0	0	1797	1599	1805	1881	1599	1787	1881	1615
Flt Permitted		0.731			0.704		0.585			0.070		
Satd. Flow (perm)	0	1328	0	0	1325	1599	1112	1881	1599	132	1881	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		25				170			305			10
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		1536			3504			2560			2352	
Travel Time (s)		41.9			95.6			38.8			35.6	
Volume (vph)	27	18	22	180	10	164	15	900	256	61	239	8
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	0%	0%	0%	1%	0%	1%	0%	1%	1%	1%	1%	0%
Adj. Flow (vph)	32	21	26	214	12	195	18	1071	305	73	285	10
Lane Group Flow (vph)	0	79	0	0	226	195	18	1071	305	73	285	10
Turn Type	Perm			Perm		Perm	Perm		Perm	pm+pt		Perm
Protected Phases		4			8			2		1	6	
Permitted Phases	4			8		8	2		2	6		6
Detector Phases	4	4		8	8	8	2	2	2	1	6	6
Minimum Initial (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	22.0	22.0		22.0	22.0	22.0	22.0	22.0	22.0	10.0	22.0	22.0
Total Split (s)	23.0	23.0	0.0	23.0	23.0	23.0	57.0	57.0	57.0	10.0	67.0	67.0
Total Split (%)	25.6%	25.6%	0.0%	25.6%	25.6%	25.6%	63.3%	63.3%	63.3%	11.1%	74.4%	74.4%
Maximum Green (s)	17.0	17.0		17.0	17.0	17.0	51.0	51.0	51.0	4.0	61.0	61.0
Yellow Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lead/Lag							Lag	Lag	Lag	Lead		
Lead-Lag Optimize?							Yes	Yes	Yes	Yes		
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None		None	None	None	Min	Min	Min	None	Min	Min
Walk Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0	11.0	11.0	11.0		11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0	0	0	0	0		0	0
Act Effct Green (s)		17.7			17.7	17.7	51.2	51.2	51.2	58.5	58.7	58.7
Actuated g/C Ratio		0.21			0.21	0.21	0.61	0.61	0.61	0.68	0.69	0.69
v/c Ratio		0.27			0.82	0.42	0.03	0.94	0.28	0.36	0.22	0.01
Control Delay		24.2			51.6	9.8	7.9	32.0	1.7	10.1	5.2	2.2
Queue Delay		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		24.2			51.6	9.8	7.9	32.0	1.7	10.1	5.2	2.2
LOS		C			D	A	A	C	A	B	A	A
Approach Delay		24.2			32.2			25.1			6.1	

Lanes, Volumes, Timings
 3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Approach LOS	C			C			C			A			
Queue Length 50th (ft)	25			123			12	4	536	0	11	49	0
Queue Length 95th (ft)	59			#216			56	12	#754	24	23	71	4
Internal Link Dist (ft)	1456			3424			2480			2272			
Turn Bay Length (ft)													
Base Capacity (vph)	317			297			490	684	1157	1101	205	1337	1151
Starvation Cap Reductn	0			0			0	0	0	0	0	0	0
Spillback Cap Reductn	0			0			0	0	0	0	0	0	0
Storage Cap Reductn	0			0			0	0	0	0	0	0	0
Reduced v/c Ratio	0.25			0.76			0.40	0.03	0.93	0.28	0.36	0.21	0.01

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 84.5

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.94

Intersection Signal Delay: 23.3

Intersection LOS: C

Intersection Capacity Utilization 74.5%

ICU Level of Service D

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

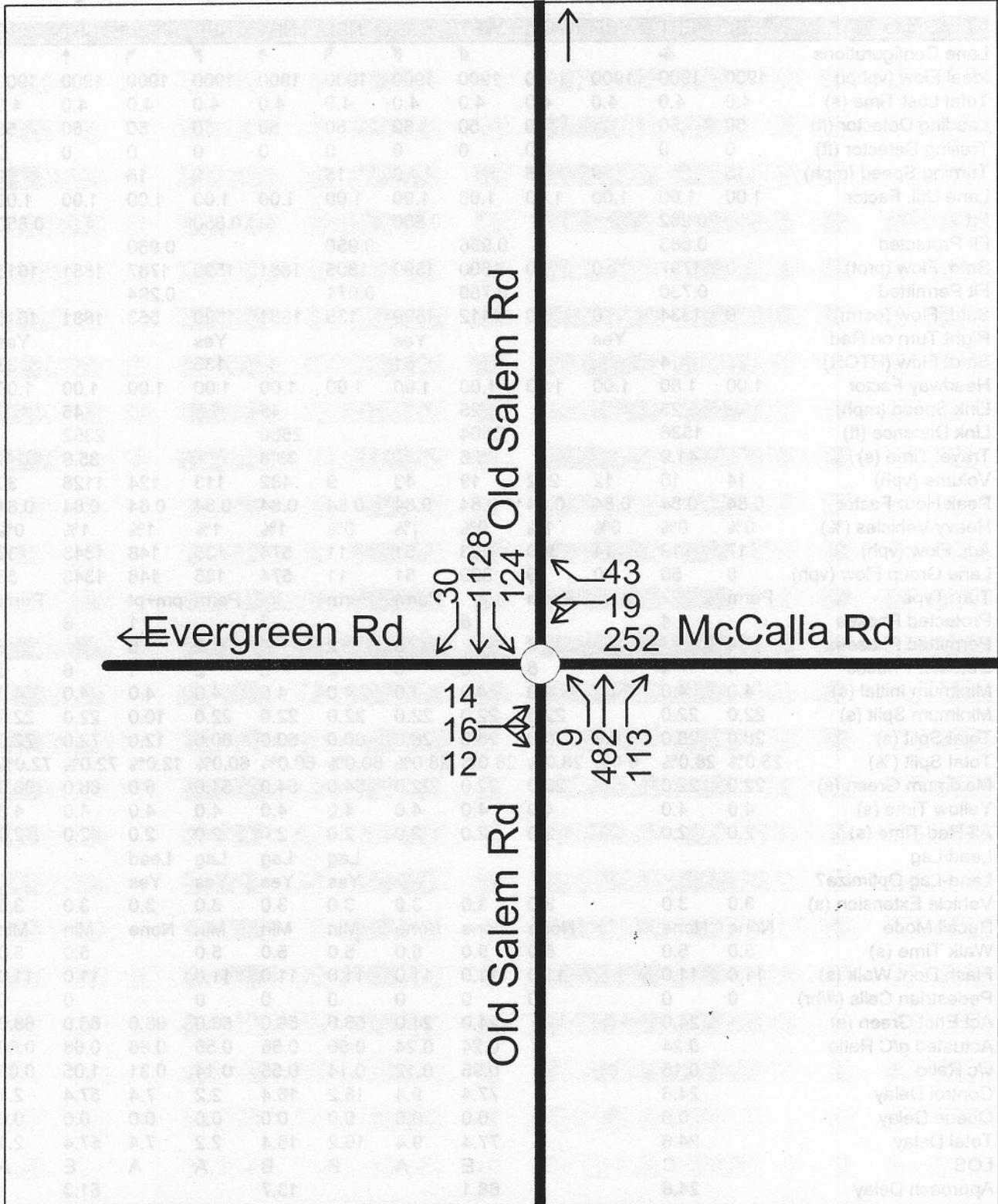
Queue shown is maximum after two cycles.

Splits and Phases: 3: Evergreen Rd & Old Salem Rd

 ø1	 ø2	 ø4
10 s	57 s	23 s
 ø6		 ø8
67 s		23 s

Map - Design Alternative - 20 yr Horizon
 Volumes

8/16/2004



Design Alternative - 20 yr Horizon - PM Design Year H:\PROJECTS\600\668-31\Synchro\PMDesign.sy7

jk

Lanes, Volumes, Timings
3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↕			↕		↗	↖	↗	↖	↗	↖	↗
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50		50	50	50	50	50	50	50	50	50
Trailing Detector (ft)	0	0		0	0	0	0	0	0	0	0	0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.962					0.850	0.850			0.850		0.850
Flt Protected	0.983			0.956		0.950			0.950			
Satd. Flow (prot)	0	1797	0	0	1800	1599	1805	1881	1599	1787	1881	1615
Flt Permitted	0.730			0.750		0.071			0.294			
Satd. Flow (perm)	0	1334	0	0	1412	1599	135	1881	1599	553	1881	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)	14					51	135			33		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)	25			25		45			45			
Link Distance (ft)	1536			3504		2560			2352			
Travel Time (s)	41.9			95.6		38.8			35.6			
Volume (vph)	14	16	12	252	19	43	9	482	113	124	1128	30
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	0%	0%	0%	1%	0%	1%	0%	1%	1%	1%	1%	0%
Adj. Flow (vph)	17	19	14	300	23	51	11	574	135	148	1343	36
Lane Group Flow (vph)	0	50	0	0	323	51	11	574	135	148	1343	36
Turn Type	Perm			Perm		Perm	Perm		Perm	pm+pt		Perm
Protected Phases	4			8		2			1		6	
Permitted Phases	4			8		8	2		2	6		6
Detector Phases	4	4		8	8	8	2	2	2	1	6	6
Minimum Initial (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	22.0	22.0		22.0	22.0	22.0	22.0	22.0	22.0	10.0	22.0	22.0
Total Split (s)	28.0	28.0	0.0	28.0	28.0	28.0	60.0	60.0	60.0	12.0	72.0	72.0
Total Split (%)	28.0%	28.0%	0.0%	28.0%	28.0%	28.0%	60.0%	60.0%	60.0%	12.0%	72.0%	72.0%
Maximum Green (s)	22.0	22.0		22.0	22.0	22.0	54.0	54.0	54.0	6.0	66.0	66.0
Yellow Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lead/Lag						Yes	Lag	Lag	Lag	Lead		
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None		None	None	None	Min	Min	Min	None	Min	Min
Walk Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0	11.0	11.0	11.0		11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0	0	0	0	0		0	0
Act Effct Green (s)	24.0			24.0		24.0	56.0	56.0	56.0	68.0	68.0	68.0
Actuated g/C Ratio	0.24			0.24		0.24	0.56	0.56	0.56	0.68	0.68	0.68
v/c Ratio	0.15			0.95		0.12	0.14	0.55	0.14	0.31	1.05	0.03
Control Delay	24.6			77.4		9.4	16.2	16.4	2.2	7.4	57.4	2.1
Queue Delay	0.0			0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	24.6			77.4		9.4	16.2	16.4	2.2	7.4	57.4	2.1
LOS	C			E		A	B	B	A	A	E	A
Approach Delay	24.6			68.1		13.7		51.3				

Lanes, Volumes, Timings
 3: Evergreen Rd & Old Salem Rd

8/16/2004

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		C			E			B			D	
Queue Length 50th (ft)		18			204	0	3	218	0	29	-938	1
Queue Length 95th (ft)		45			#334	26	13	282	21	47	#1057	9
Internal Link Dist (ft)		1456			3424			2480			2272	
Turn Bay Length (ft)												
Base Capacity (vph)		331			339	423	76	1053	955	475	1279	1109
Starvation Cap Reductn		0			0	0	0	0	0	0	0	0
Spillback Cap Reductn		0			0	0	0	0	0	0	0	0
Storage Cap Reductn		0			0	0	0	0	0	0	0	0
Reduced v/c Ratio		0.15			0.95	0.12	0.14	0.55	0.14	0.31	1.05	0.03

Intersection Summary

Area Type: Other
 Cycle Length: 100
 Actuated Cycle Length: 100
 Natural Cycle: 100
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 1.05
 Intersection Signal Delay: 43.0 Intersection LOS: D
 Intersection Capacity Utilization 94.3% ICU Level of Service F
 Analysis Period (min) 15
 ~ Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 3: Evergreen Rd & Old Salem Rd

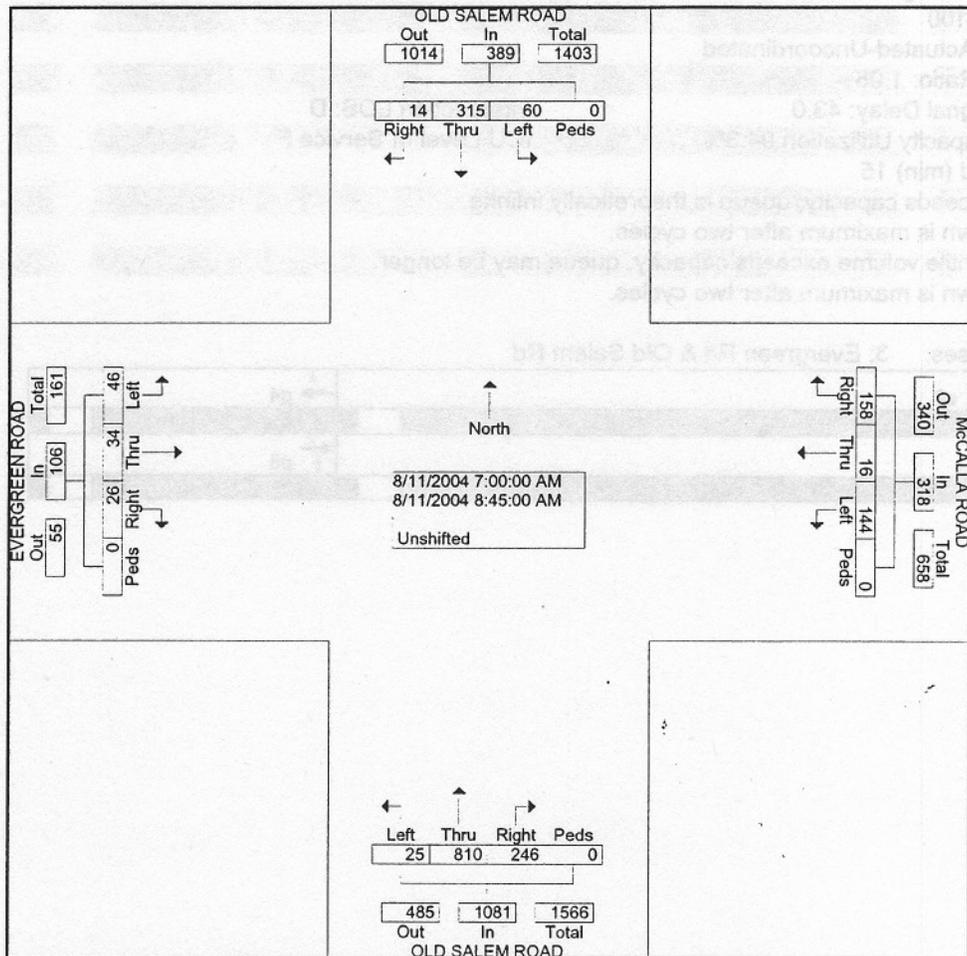
↙ φ1	↕ φ2	↗ φ4
12 s	60 s	28 s
↘ φ6		↖ φ8
72 s		28 s

All Traffic Data Services, Inc.
 1111 Kinnett Road
 Covington, Ga. 30016
 PH 404-374-1283

File Name : OldSalem&McCallaAM
 Site Code : 00000000
 Start Date : 8/11/2004
 Page No : 1

Groups Printed- Unshifted

Start Time	OLD SALEM ROAD Southbound				McCALLA ROAD Westbound				OLD SALEM ROAD Northbound				EVERGREEN ROAD Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	10	59	1	0	10	1	15	0	1	76	33	0	3	3	0	0	212
07:15 AM	7	51	1	0	16	3	27	0	1	77	42	0	5	8	2	0	240
07:30 AM	8	40	3	0	33	5	27	0	4	119	63	0	12	9	6	0	329
07:45 AM	12	30	1	0	32	1	35	0	3	135	24	0	7	3	6	0	289
Total	37	180	6	0	91	10	104	0	9	407	162	0	27	23	14	0	1070
08:00 AM	9	24	4	0	26	1	17	0	3	122	26	0	6	4	6	0	248
08:15 AM	5	39	0	0	9	3	12	0	5	124	29	0	2	2	4	0	234
08:30 AM	4	27	2	0	13	1	9	0	6	69	14	0	5	3	0	0	153
08:45 AM	5	45	2	0	5	1	16	0	2	88	15	0	6	2	2	0	189
Total	23	135	8	0	53	6	54	0	16	403	84	0	19	11	12	0	824
Grand Total	60	315	14	0	144	16	158	0	25	810	246	0	46	34	26	0	1894
Apprch %	15.4	81.0	3.6	0.0	45.3	5.0	49.7	0.0	2.3	74.9	22.8	0.0	43.4	32.1	24.5	0.0	
Total %	3.2	16.6	0.7	0.0	7.6	0.8	8.3	0.0	1.3	42.8	13.0	0.0	2.4	1.8	1.4	0.0	

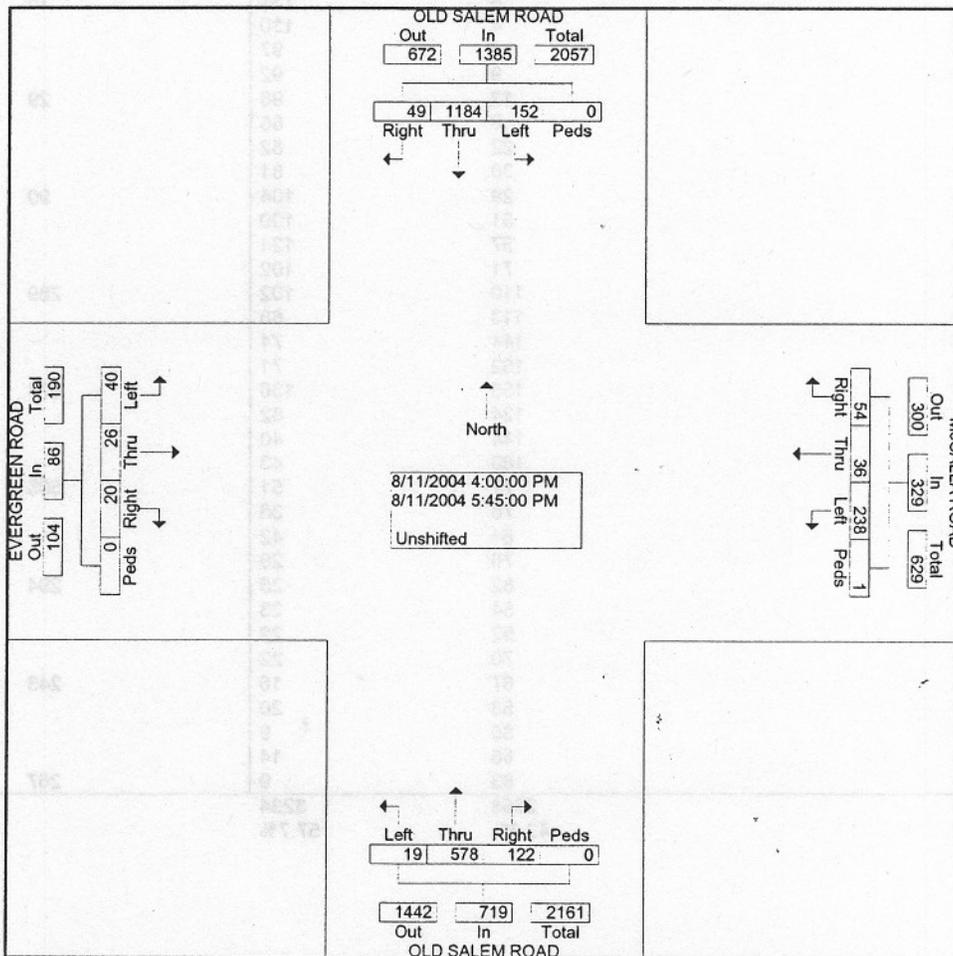


All Traffic Data Services, Inc.
 1111 Kinnett Road
 Covington, Ga. 30016
 PH 404-374-1283

File Name : OldSalem&McCallaPM
 Site Code : 00000000
 Start Date : 8/11/2004
 Page No : 1

Groups Printed- Unshifted

Start Time	OLD SALEM ROAD Southbound				McCALLA ROAD Westbound				OLD SALEM ROAD Northbound				EVERGREEN ROAD Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
04:00 PM	16	121	5	0	24	4	13	1	2	73	27	0	6	3	2	0	297
04:15 PM	27	151	5	0	28	2	4	0	3	78	11	0	9	0	2	0	320
04:30 PM	23	145	1	0	24	4	5	0	1	84	11	0	7	3	1	0	309
04:45 PM	17	140	8	0	22	7	8	0	4	75	10	0	4	4	3	0	302
Total	83	557	19	0	98	17	30	1	10	310	59	0	26	10	8	0	1228
05:00 PM	21	152	6	0	36	3	9	0	2	54	14	0	5	2	4	0	308
05:15 PM	20	188	4	0	37	4	6	0	4	69	10	0	2	5	1	0	350
05:30 PM	18	154	9	0	26	5	5	0	2	63	20	0	3	3	3	0	311
05:45 PM	10	133	11	0	41	7	4	0	1	82	19	0	4	6	4	0	322
Total	69	627	30	0	140	19	24	0	9	268	63	0	14	16	12	0	1291
Grand Total	152	1184	49	0	238	36	54	1	19	578	122	0	40	26	20	0	2519
Apprch %	11.0	85.5	3.5	0.0	72.3	10.9	16.4	0.3	2.6	80.4	17.0	0.0	46.5	30.2	23.3	0.0	
Total %	6.0	47.0	1.9	0.0	9.4	1.4	2.1	0.0	0.8	22.9	4.8	0.0	1.6	1.0	0.8	0.0	



Start Time	12-Aug-04		NB		Hour Totals	
	Thu		Morning	Afternoon	Morning	Afternoon
12:00			13	71		
12:15			6	70		
12:30			4	72		
12:45			2	68	25	281
01:00			7	54		
01:15			5	56		
01:30			4	70		
01:45			3	82	19	262
02:00			0	77		
02:15			9	80		
02:30			5	83		
02:45			4	83	18	323
03:00			1	86		
03:15			4	60		
03:30			2	104		
03:45			8	131	15	381
04:00			4	110		
04:15			4	97		
04:30			9	92		
04:45			12	96	29	395
05:00			9	66		
05:15			22	82		
05:30			30	81		
05:45			29	104	90	333
06:00			51	100		
06:15			57	124		
06:30			71	102		
06:45			110	102	289	428
07:00			113	68		
07:15			144	71		
07:30			162	71		
07:45			155	136	574	346
08:00			124	82		
08:15			144	40		
08:30			160	43		
08:45			77	51	505	216
09:00			78	38		
09:15			64	42		
09:30			70	29		
09:45			82	25	294	134
10:00			54	23		
10:15			52	22		
10:30			70	22		
10:45			67	16	243	83
11:00			53	20		
11:15			85	9		
11:30			66	14		
11:45			63	9	267	52
Total			2368	3234		
Percent			42.3%	57.7%		

Start Time	12-Aug-04 Thu	SB		Hour Totals	
		Morning	Afternoon	Morning	Afternoon
12:00		25	72		
12:15		10	66		
12:30		12	62		
12:45		9	65	56	265
01:00		8	81		
01:15		9	77		
01:30		7	82		
01:45		4	78	28	318
02:00		3	63		
02:15		2	96		
02:30		6	150		
02:45		3	104	14	413
03:00		8	129		
03:15		7	137		
03:30		3	130		
03:45		6	127	24	523
04:00		3	126		
04:15		5	109		
04:30		4	130		
04:45		1	136	13	501
05:00		2	158		
05:15		4	188		
05:30		4	168		
05:45		6	200	16	714
06:00		5	170		
06:15		10	192		
06:30		17	148		
06:45		40	142	72	652
07:00		40	130		
07:15		56	108		
07:30		152	140		
07:45		151	111	399	489
08:00		91	112		
08:15		56	134		
08:30		43	108		
08:45		38	82	228	436
09:00		42	93		
09:15		48	62		
09:30		36	68		
09:45		45	77	171	300
10:00		39	52		
10:15		34	49		
10:30		40	53		
10:45		50	34	163	188
11:00		56	29		
11:15		49	26		
11:30		63	25		
11:45		57	16	225	96
Total		1409	4895		
Percent		22.4%	77.6%		

Start Time	12-Aug-04 Thu	NB		Hour Totals	
		Morning	Afternoon	Morning	Afternoon
12:00		13	76		
12:15		5	76		
12:30		6	74		
12:45		2	67	26	293
01:00		6	60		
01:15		5	48		
01:30		3	79		
01:45		2	71	16	258
02:00		0	60		
02:15		6	90		
02:30		6	86		
02:45		2	94	14	330
03:00		1	78		
03:15		4	64		
03:30		1	105		
03:45		7	110	13	357
04:00		4	83		
04:15		7	88		
04:30		9	89		
04:45		13	88	33	348
05:00		9	74		
05:15		19	73		
05:30		30	82		
05:45		29	100	87	329
06:00		59	93		
06:15		62	106		
06:30		82	85		
06:45		116	90	319	374
07:00		104	66		
07:15		110	72		
07:30		135	59		
07:45		162	118	511	315
08:00		116	60		
08:15		136	58		
08:30		128	41		
08:45		78	47	458	206
09:00		67	37		
09:15		59	34		
09:30		68	24		
09:45		67	22	261	117
10:00		54	18		
10:15		46	24		
10:30		68	16		
10:45		60	10	228	68
11:00		52	18		
11:15		83	13		
11:30		67	12		
11:45		55	8	257	51
Total		2223	3046		
Percent		42.2%	57.8%		

Latitude: 0' 0.000 Undefined

Start Time	12-Aug-04		SB		Hour Totals	
	Thu		Morning	Afternoon	Morning	Afternoon
12:00			7		79	
12:15			8		85	
12:30			7		76	
12:45			5		70	
01:00			1		64	27
01:15			3		89	
01:30			6		134	
01:45			2		101	12
02:00			6		108	
02:15			7		128	
02:30			2		114	
02:45			5		122	20
03:00			4		114	
03:15			5		98	
03:30			5		129	
03:45			1		128	15
04:00			2		143	
04:15			5		187	
04:30			5		170	
04:45			7		163	19
05:00			3		175	
05:15			8		202	
05:30			15		137	
05:45			30		146	56
06:00			43		136	
06:15			43		116	
06:30			96		136	
06:45			146		108	328
07:00			74		108	
07:15			82		82	
07:30			49		93	
07:45			34		85	239
08:00			36		93	
08:15			43		78	
08:30			31		74	
08:45			50		75	160
09:00			34		51	
09:15			36		51	
09:30			40		54	
09:45			48		38	158
10:00			50		32	
10:15			50		25	
10:30			52		26	
10:45			53		24	205
11:00			74		12	
11:15			66		15	
11:30			61		11	
11:45			58		15	259
Total			1498	4500		53
Percent			25.0%	75.0%		

Start Time	12-Aug-04 Thu	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		4	18			8	22				
12:15		2	11			4	15				
12:30		3	20			3	16				
12:45		2	19	11	68	2	18	17	71	28	139
01:00		2	9			3	22				
01:15		1	18			1	16				
01:30		0	23			1	22				
01:45		1	20	4	70	0	11	5	71	9	141
02:00		0	40			2	29				
02:15		3	42			0	42				
02:30		2	29			2	62				
02:45		0	23	5	134	0	39	4	172	9	306
03:00		1	23			1	36				
03:15		1	18			2	47				
03:30		0	26			0	40				
03:45		0	44	2	111	0	25	3	148	5	259
04:00		0	40			0	35				
04:15		0	34			0	34				
04:30		1	38			0	37				
04:45		1	32	2	144	0	44	0	150	2	294
05:00		0	22			0	41				
05:15		6	40			1	38				
05:30		5	34			1	45				
05:45		5	52	16	148	1	65	3	189	19	337
06:00		8	32			7	43				
06:15		3	50			8	40				
06:30		14	39			20	33				
06:45		22	65	47	186	22	40	57	156	104	342
07:00		52	32			36	34				
07:15		64	33			31	28				
07:30		76	28			74	24				
07:45		57	37	249	130	103	28	244	114	493	244
08:00		43	28			36	40				
08:15		43	16			20	95				
08:30		46	22			16	33				
08:45		24	27	156	93	18	16	90	184	246	277
09:00		14	22			10	32				
09:15		16	27			16	9				
09:30		13	19			9	17				
09:45		26	15	69	83	11	14	46	72	115	155
10:00		9	10			14	8				
10:15		22	8			8	16				
10:30		20	11			12	10				
10:45		9	12	60	41	12	5	46	39	106	80
11:00		15	6			14	6				
11:15		18	2			18	10				
11:30		10	5			18	3				
11:45		13	3	56	16	15	2	65	21	121	37
Total		677	1224			580	1387			1257	2611
Percent		35.6%	64.4%			29.5%	70.5%			32.5%	67.5%

All Traffic Data Services, Inc.
 1111 Kinnett Road
 Covington, Ga. 30016
 Ph. (404) 374-1283 Fax. (770) 788-0181

Site Code: 1.3
 Station ID: 1.3
 EVERGREEN ROAD WEST OF
 OLD SALEM ROAD
 Latitude: 0' 0.000 Undefined

Start Time	12-Aug-04 Thu	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	12			0	4				
12:15		0	15			0	8				
12:30		4	9			1	4				
12:45		0	10	4	46	0	6	1	22	5	68
01:00		1	6			0	4				
01:15		0	4			0	6				
01:30		0	14			0	5				
01:45		0	13	1	37	0	6	0	21	1	58
02:00		0	7			0	6				
02:15		1	12			0	10				
02:30		0	15			0	4				
02:45		0	11	1	45	0	6	0	26	1	71
03:00		0	26			0	7				
03:15		0	7			0	9				
03:30		3	10			0	2				
03:45		0	27	3	70	1	8	1	26	4	96
04:00		2	8			3	4				
04:15		2	10			0	14				
04:30		0	19			0	10				
04:45		2	19	6	56	0	6	3	34	9	90
05:00		0	15			0	7				
05:15		1	10			0	6				
05:30		2	14			3	10				
05:45		2	17	5	56	3	10	6	33	11	89
06:00		8	14			4	14				
06:15		3	18			0	4				
06:30		14	23			2	11				
06:45		7	28	32	83	6	14	12	43	44	126
07:00		9	21			2	14				
07:15		24	14			6	4				
07:30		36	14			6	6				
07:45		38	20	107	69	20	12	34	36	141	105
08:00		22	14			8	9				
08:15		15	18			11	12				
08:30		23	6			12	6				
08:45		10	10	70	48	2	9	33	36	103	84
09:00		12	12			4	7				
09:15		6	2			1	7				
09:30		10	10			0	6				
09:45		16	10	44	34	6	4	11	24	55	58
10:00		14	8			2	8				
10:15		10	2			2	4				
10:30		12	10			4	2				
10:45		4	6	40	26	6	1	14	15	54	41
11:00		10	4			4	1				
11:15		12	2			4	2				
11:30		9	3			5	1				
11:45		5	3	36	12	3	0	16	4	52	16
Total		349	582			131	320			480	902
Percent		37.5%	62.5%			29.0%	71.0%			34.7%	65.3%

ATTACHMENT 7

Regarding: **Meeting Minutes from Progress Meeting**

Project: Intersection Improvement of Old Salem Road @ McCalla Road
MSL-0004-00 (649), P.I. No. 0004649

Meeting Date: July 22, 2004

Location: Rockdale County Transportation Department Conference Room
Conyers, GA

Minutes by: Rhandi Gallegos
American Engineers, Inc. (AEI)

Attendance: Frank Helman Rockdale County Transportation Department
Charles McGiboney Rockdale County Transportation Department
Lem Dobbs American Engineers, Inc.
Rhandi Gallegos American Engineers, Inc.

Distribution: Attendees
Andy Pitman, Edwards Pitman
John Karnowski Street Smarts
file

Dear Mr. McGiboney:

American Engineers, Inc. (AEI) presented the progress meeting to Rockdale County Officials on July 22, 2004 at the Rockdale County Transportation Department Conference Room. Items discussed during the meeting are as follows:

- Contact for American Engineers, Inc. (AEI)
Primary Contacts: Rhandi Gallegos Project Engineer 770-421-8422
Lem Dobbs Project Liaison
- The project has federal funds involved, and should be listed as exempt from federal oversight in the concept report.
- Functional classification for Old Salem Road is listed as a local road by the state, but Rockdale County has requested having it changed to a minor arterial. They are awaiting approval from GDOT regarding the change in classification. It will be shown as a local road in the concept report and changed if approved by GDOT.

- GDOT will be reviewing the plans in addition to Rockdale County. The design should utilize GDOT's PDP guidelines.
- Mike Lobdale is the contact person from District 7 of GDOT. He is the Preconstruction Engineer for The District.
- The taper rates for the turning lanes should follow what is being used throughout Rockdale County. Charles will check on the County standard and forward that information to AEI.
- AEI will contact Karl Kelly with Rockdale County Planning and Zoning regarding the development at the corner of Old Salem and McCalla. Karl's phone number is (770) 785-6965. The development is called McCalla Crossing and is being done by TNT Developments. Their contact number is (770) 760-9832. AEI will contact them regarding their plans in the area of this project.
- Rockdale County would prefer not to use a 3-point compound curve for the right-hand turn lanes. If the traffic data shows a high volume of trucks and busses at the intersection, a 75' radius will be used. If the traffic data shows only a small amount of truck and bus traffic a 60' radius is acceptable to the County.
- The typical section for this intersection is to follow the same as was used at S.R. 162 and McCalla. That is a 2' section of colored, stamped concrete from back of curb to face of sidewalk, with a 5' sidewalk from the project limits of both roads. ADA landings should be used with raised medians and pedestrian poles, at all four corners.
- There is a house at the northeast quadrant of the intersection that is potentially historic. EPE is investigating this property and will forward this information as soon as it is received.
- Frank indicated that the traffic island on Evergreen is preventing the centerline along McCalla from lining up. If the adjacent property is not historic, the centerline at McCalla will be slightly shifted to align with Evergreen's centerline.
- The County desires the use of an urban typical section throughout the project.
- The County desires the stationing of the plans to match D.O.T. standards and not follow the stationing that was used in the Concept Plan that was issued with the RFP.
- No comments were made regarding the plan sheets except that the typical section should be changed from rural, which is shown, to an urban section.
- The profile was reviewed and the use of leveling is desired.
- The concept plans will be revised and forwarded to Rockdale County to address the comments from the progress meeting. A revised schedule will also be submitted with the revised concept report along with the preliminary traffic data and environmental survey.

If you have any questions or comments regarding the referenced project please feel free to contact our office anytime during the duration of the project.

End of Minutes

Sincerely,
American Engineers, Inc. (AEI)

Rhandi Gallegos
Project Engineer

Attachment 8

Concept Meeting Minutes

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

If you have any questions or comments regarding the information on this page, please contact our office at (708) 399-1234.

End of Minutes

Sincerely,
Richard G. Kelly, P.E.
American Engineers, Inc. (AEI)

Richard G. Kelly
Project Engineer

Attachment 8
Concept Meeting Minutes

Regarding: **Meeting Minutes from Concept Review Meeting**

Project: Intersection Improvement of Old Salem Road @ McCalla Road
MSL-0004-00 (649), P.I. No. 0004649

Meeting Date: October 19, 2004

Location: GDOT District 7 Conference Room
Chamblee, GA

Minutes by: Rhandi Gallegos
American Engineers, Inc. (AEI)

Attendance:

Frank Hellman	Rockdale County	Frank.Hellman@rockdalecounty.org	(770) 785-5919
Scott Lee	GDOT	Scott.Lee@Dot.state.ga.us	(770) 986-1050
Zandra Montgomery	GDOT	Zandra.Montgomery@dot.state.ga.us	(770) 986-1050
Pam Black	GDOT	Pam.Black@dot.state.ga.us	(770) 986-1555
Alex Laffey	GDOT	Alex.Laffey@dot.state.ga.us	(770) 986-1277
Marshall Troup	GDOT	Marshall.Troup@dot.state.ga.us	(770) 986-1050
Reuben Woods	GDOT	Sharon.Witherspoon@dot.state.ga.us	(770) 986-1090
Sharon Witherspoon	GDOT	Sharon.Witherspoon@dot.state.ga.us	(770) 986-1090
Michael Coleman	GDOT	Mike.Coleman@dot.state.ga.us	(770) 986-1050
Chris Woods	GDOT	Chris.Woods@dot.state.ga.us	(770) 986-1050
Mike Lobdell	GDOT	Mike.Lobdale@dot.state.ga.us	(770) 986-1050
Lem Dobbs	AEI	ldobbs@aei.cc	(770) 421-8422
Rhandi Gallegos	AEI	rgallegos@aei.cc	(770) 421-8422

DISCUSSION:

Introduction

Item 1: Reuben Woods, the representative for GDOT Utilities, questioned if Rockdale County would pay for the relocation of private utilities. Marshall Troup said that as part of the LGPA, The County would be responsible. Reuben forwarded a copy of the utility department contact information for this project for incorporation into the plan set.

Item 2: Pam Black, the representative for GDOT Right-of-Way questioned whether permanent or temporary easements would be used for this project. Frank indicated that The County would prefer using temporary easements for construction of slopes instead of permanent. Frank to send a letter to Mike Lobdell requesting the use of temporary easements instead of permanent easements.

Item 3: Zandra Montgomery represented GDOT's Office of Environment and Location. She forwarded comments from Mike Murdoch for the environmental portion of the project. The comments included the following:

1. The traffic analysis assumes maximum growth possible; what does this mean? Is it a linear projection or were additional factors included? If the functional classification of Old Salem Road is changed, will the LOS be adjusted accordingly? Environmental document must have build or no build included; the current concept report does not.
2. The Need and Purpose of the Concept Report needs to be elaborated. Right of way should be called out instead of saying varies.
3. The potentially historic house at the northwest quadrant of the site was discussed. Any R/W or permanent easement within the boundary creates the need for a 4f.

Item 4: Alex Laffey asked if pedestrian and ADA facilities would be included in the project design. The County and Consultant confirmed that this project would be fully ADA and Pedestrian Compliant with the current guidelines.

Item 5: Concept Report

1. Cover Sheet – Change to District 7 Engineer, Remove District Engineer at bottom of page. Spread Signature blocks to allow more room for signing. Change RTP to say “Regional Transportation Plan”. Delete header and footer from Cover Sheet.
2. Page 2, Location Map - needs to include a north arrow and headers and footers.
3. Page 3 – Need and Purpose needs more discussion. Discussion to include current problems, safety issues, current and proposed LOS, measures proposed to make intersection ADA compliant, pedestrian facilities that exist and that will be added, the effects the project may have on the school located nearby, the upgrades proposed to the signal at the intersection. The Planner for GDOT who worked on this project should be contacted by AEI for additional information to be included in the Need and Purpose statement.
4. Page 3 – Move existing project description to section with existing project design features.
5. Page 3 – In the proposed project discussion, address if the roadway will be widened symmetrically, storage lengths proposed, taper lengths used. The length of the turn lane from Old Salem onto Evergreen was questioned as to whether it was too long? Also, the remaining storage lane lengths should be reviewed for adequate capacity. The proposed lengths were recommended by the traffic consultant based on the traffic analysis report.
6. Traffic Analysis Report – It was discussed if the traffic capacity was based on a 25' / vehicle dimension. Also, it appears the intersection functions at LOS B currently so it was questioned as to the need for the improvements.
7. Page 4 – Add signalized intersection to existing design features. Proposed design features should include signal upgrade, the addition of sidewalks, and that the speed limits for each road will remain the same. A 4% superelevation chart should be used in design of this project. Traffic ADT for both 2006 and 2026 should be listed. Minimum and maximum right-of-way should be listed.

- Project Location Report
Project Number: MS1-0804-0214
P.I. Number: 000049
County: Rockdale
8. Page 6 - List local public information meetings to be held, two total. OEL doesn't need to hold a Public Meeting, but Rockdale County will hold 2 for this project. Delete items 4, 5, 6 from the attachments. Include Notice of Location and Design. Item 9, Traffic Report does not have to be included, only a summary of the traffic data. The traffic report is to be forwarded under separate cover to Rockdale County to be forwarded to GDOT for review. The time limit for R/W should be changed from 12 months to 9 months.
 9. Cost Estimate – Remove engineering costs from cost estimate and include utility costs.

Item 6: Soil Survey needs to include pavement core analysis for pavement design. The revised Soil Survey should be forwarded to Rockdale County to be forwarded to GDOT for pavement design. 1 core for Old Salem and 1 core for McCalla Road are needed.

Item 7: Old Salem Road needs to be put into temporary State Route status. GDOT and Rockdale County to coordinate this. AEI to send 1 half-size set of plans to GDOT for this.

End of Meeting

If you have any questions or comments regarding these minutes please feel free to contact our office.

Sincerely,

American Engineers, Inc. (AEI)

Rhandi Gallegos
Project Engineer

Project Concept Report
Project Number: MSL-0004-00(649)
P.I. Number: 0004649
County: Rockdale

Page 6 - Last local public information meetings to be held, two total. OEL doesn't need to hold a Public Hearing but Rockdale County will hold 2 for this project. Delete items 4, 5, 6 from the attachment. Include Notices of Location and Design. Item 9, Traffic Report does not have to be included, only a summary of the traffic data. The traffic report is to be forwarded under separate cover to Rockdale County to be forwarded to CDOT for review. The time limit for ROW should be changed from 12 months to 9 months.

Item 6: Soil Survey needs to include pavement core analysis for pavement design. The revised Soil Survey should be forwarded to Rockdale County to be forwarded to CDOT for pavement design. I care for Old Salem and I care for Metcalf Road are needed.

Item 7: Old Salem Road needs to be put into temporary State Route status. CDOT and Rockdale County to coordinate this. AEL to send 1 half-size set of plans to CDOT for this.

End of Meeting

If you have any questions or comments regarding these minutes please feel free to contact our office.

Sincerely,

American Engineers, Inc. (AEL)

Attachment 9 Notice of Location and Design

Randy Gallegos
Project Engineer

NOTICE OF LOCATION AND DESIGN APPROVAL

PROJECT NUMBER: MSL-0004-00(649), ROCKDALE COUNTY

P. I. NUMBER: 0004649

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 this project.

The date of location approval is MARCH 1, 2005

Old Salem Road is located in the east central portion of Rockdale County and is a rural two lane facility providing access between residential and commercial areas. This intersection is currently signalized and Old Salem Road has deceleration, right turn lanes on the southbound side at Evergreen Drive and Glenwood Hills Bible Church. The existing intersection does not have ADA access ramps or sidewalks. Peek's Chapel Elementary School is located 0.5 mile east of Old Salem Road on the North side of McCalla Road. It is anticipated that pedestrian traffic will increase in this area due to the residential development on Evergreen Drive, the proposed new development on the southeast corner of the intersection and the closeness of Peek's Chapel Elementary School.

The proposed project length is approximately 0.4 mile and will widen Old Salem Road on the east side, both north and south of McCalla Road, in order to add left and right turn lanes for the intersection. Curb and gutter and sidewalk will be added on both sides throughout the project in order to accommodate pedestrian traffic. The existing traffic signal system will be upgraded to accommodate the redesigned intersection. The intersection will also be designed to comply with current ADA requirements. This project will allow the intersection to operate at a satisfactory level of service with 20 year projected traffic volumes.

The project is located in Land Lots 181 and 204 in District 10 of Rockdale County.

Proposed improvements to this intersection are to add dedicated left turn lanes on Old Salem Road onto McCalla Road and Evergreen Drive, add a right turn lane on Old Salem Road onto McCalla Road and add a right turn lane on McCalla Road onto Old Salem Road. The widening of Old Salem Road will be accomplished on the east side of the existing road in order to minimize impacts to adjacent properties and to minimize utility conflicts. Lane widths will be 12 feet. Two traffic islands will be constructed on the east side of the intersection for traffic separation. The typical section will be an urban typical section with sidewalks, and colored, patterned concrete between back of curb and face of sidewalk.

The proposed project will provide operational improvements at the Old Salem Road and McCalla Road/Evergreen Drive Intersection and allow it to operate at a satisfactory level of service for the 20 year projected traffic volumes. It will also provide pedestrian access and safety through the intersection area.

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

Thomas Parker
thom.parker@dot.state.ga.us
805 George Luther Drive
Decatur, Georgia 30032
(404)299-4386

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:

Mike Lobdell
District 7 Preconstruction
mike.lobdell@dot.state.ga.us
5025 New Peachtree Road
Chamblee, Georgia 30341
(404)463-4947

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.

Wively
1-6-05


DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: MSL-0004-00(649)

County: Rockdale

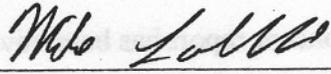
P. I. Number: 0004649

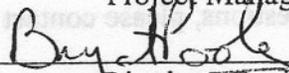
Federal Route Number: None

State Route Number: Temp

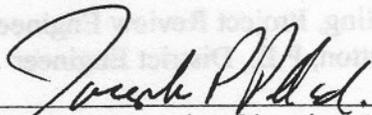
Old Salem Road @ McCalla Road
Intersection Improvement Project

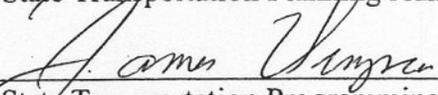
Recommendation for approval:

DATE 1/6/05 
Project Manager

DATE 1/6/05 
District 7 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 1/11/05 
State Transportation Planning Administrator

DATE 1-14-05 
State Transportation Programming Engineer

DATE _____
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE _____
Project Review Engineer

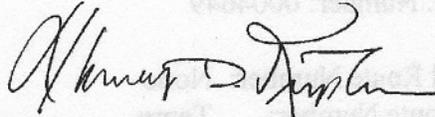
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. Nos. 0004649

OFFICE: Environment/Location

DATE: January 19, 2005



FROM: Harvey D. Keeper, State Environmental/Location Engineer

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

SUBJECT: PROJECT CONCEPT REPORT
MSL-0004-00(649) / Rockdale County
Old Salem Road at McCalla Road

The above subject concept report has been reviewed. This Office has no comment at this time.

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

HDK/lc

Attachment

cc: David Mulling, Project Review Engineer
Buddy Gratton, P.E., District Engineer

_____	DATE 1/19/05
_____	DATE 1/19/05
_____	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: MSL-0004-00(649)

County: Rockdale

P. I. Number: 0004649

Federal Route Number: None

State Route Number: Temp

Old Salem Road @ McCalla Road
Intersection Improvement Project

Recommendation for approval:

DATE 1/6/05 W. L. Ladd
Project Manager

DATE 1/6/05 Bay Hood
District 7 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 Programming Engineer

DATE 1.19.05 Thomas D. King
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE _____
Project Review Engineer

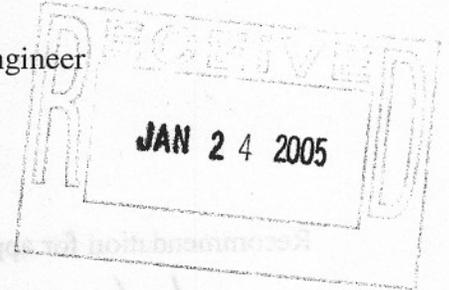
DEPARTMENT OF TRANSPORTATION
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: MSL-0004-44(649) Rockdale County
P.I. No. 0004649

Office: Traffic Safety & Design
Atlanta, Georgia
Date: January 15, 2005

PMA/KC
From: Phillip M. Allen, State Traffic Safety and Design Engineer
To: Meg Pirkle, Assistant Director of Preconstruction
Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the intersection improvements of Old Salem Rd and McCalla Rd in Rockdale County.

The Office of Traffic Safety and Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area. However, we recommend making the following changes during the design process:

- Lengthen tapers on Old Salem Rd to 540 Ft
- Widen McCalla Rd to line up with Evergreen Dr. using exclusive left turn lanes on both side street approaches
- Provide new Traffic Signal, including pedestrian accommodation

PMA/SZ/nr

Attachment (signature page)

Cc: Harvey Keepler, State Environment /Location Engineer
Bryant Poole, District Engineer
Attn: Mike Lobdell, District Preconstruction Engineer
David Mulling, State Review Engineer
Joe Palladi, State Transportation Planning Administrator
Jamine Simpson, Financial Management Administrator
General Files
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: MSL-0004-00(649)

County: Rockdale

P. I. Number: 0004649

Federal Route Number: None

State Route Number: Temp

Old Salem Road @ McCalla Road
Intersection Improvement Project

Recommendation for approval:

DATE 1/6/05 Mike Latta
Project Manager
DATE 1/6/05 Bayet Hood
District 7 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 Programming Engineer

DATE _____
State Environmental/Location Engineer

DATE 1-18-05 Phillip M. Allen
State Traffic Safety & Design Engineer

DATE _____
Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

Project Number: MSL-0004-00(649)

County: Rockdale

P. I. Number: 0004649

Federal Route Number: None

State Route Number: Temp

Old Salem Road @ McCalla Road
Intersection Improvement Project

Recommendation for approval:

DATE 1/6/05 Mike Latta
Project Manager
DATE 1/6/05 Bayet Hood
District 7 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 Programming Engineer
DATE _____ State Environmental/Location Engineer
DATE _____ State Traffic Safety & Design Engineer
DATE 1/20/05 David J. Mulvey
Project Review Engineer