

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0000-00(812) Forsyth County **OFFICE** Preconstruction
P. I. No. 0000812 **DATE** November 17, 2000

FROM *CWH*
C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

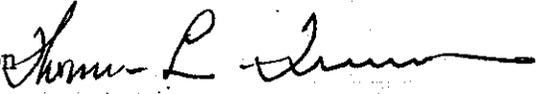
DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Larry Dent

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0000-00(812) Forsyth County **OFFICE** Preconstruction
P.I. No. 0000812 **DATE** November 2, 2000

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

TO J. Tom Coleman, Jr., Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the intersection improvements at three (3) locations along SR 306/Keith Bridge Road northeast of the City of Cumming. State Route 306 is a rural facility with a posted speed of 55 MPH. The proposed improvements will dramatically improve the safety and Level-of-Service (LOS) of these roadways, providing adequate storage and turning radii for all vehicle types and conditions. Construction is proposed as follows:

Intersection 3A - SR 306/Keith Bridge Road at SR 53/Dawsonville Highway

The northbound approach to SR 306 will be shifted onto new location, intersecting SR 53, 1,500'± west of its existing location, directly across from realigned Knight Road (CR 141), forming a four-way intersection with a traffic signal. All approaches will be widened to accommodate separate left, through, and right turn lanes.

Intersection 3B - SR 306/Keith Bridge Road at Parks Road/Shadburn Road/CR 150

State Route 306 will be widened and resurfaced to provide east and westbound left turn lanes and channeled right turn lanes. Additional right-of-way is required at the corners to accommodate the right turn lanes, and a traffic signal will be installed. Both approaches along CR 150 will be relocated 340'± west of their existing locations to intersect SR 306 at 90 degrees.

Intersection 3C - SR 306/Keith Bridge Road at Waldrip Road/CR 65

State Route 306 will be widened and resurfaced to provide a westbound left turn lane and an eastbound right turn lane. Waldrip Road will be widened to provide a channelized right turn lane with a striped turning island.

Additional right-of-way is required at all three intersections. Traffic will be maintained during construction.

STP-0000-00(812) Forsyth
November 2, 2000

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

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)*	\$2,119,000	\$1,874,000	2006	05-07
Right-of-Way*	\$1,855,000	\$1,755,000		
Utilities*	-----	-----		

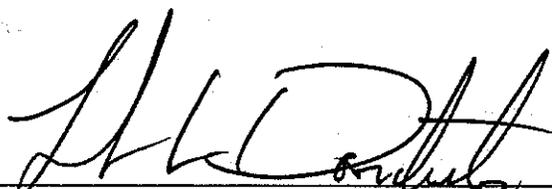
*To be done by long form LGPA with Forsyth County.

I recommend this project concept be approved.

TLT:JDQ/cj

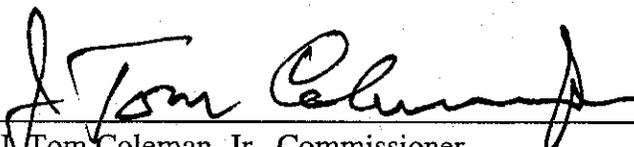
Attachment

CONCUR



Frank L. Danchetz, P.E., Chief Engineer

APPROVE



J. Tom Coleman, Jr., Commissioner

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: STP-0000-00(812) Forsyth
P.I. Number 0000812

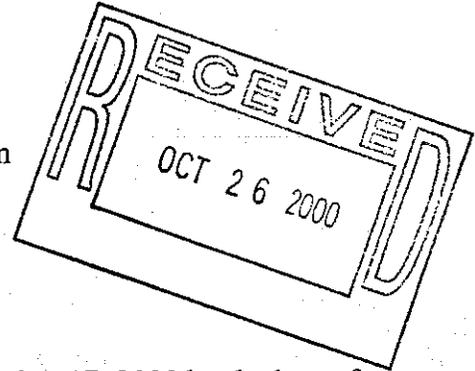
OFFICE: Atlanta, Georgia

DATE: October 25, 2000

FROM: David Mulling, Project Review Engineer *DM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted October 17, 2000 by the letter from Larry Dent dated October 16, 2000, and have the following comment:

1. Estimated costs for reimbursable utilities were not provided.

The costs for the project are:

Construction	\$1,751,000
Inflation	\$ 175,000
E&C	\$ 193,000
Reimbursable Utilities	\$?
Right of Way	\$1,855,000

DTM

c: Todd Long – District 1 Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

FORSYTH COUNTY

<u>LOCATION</u>	<u>PROJECT NO.</u>	<u>P.I. #</u>
3A. S.R. 306/Keith Bridge Rd at S.R. 53	STP-0000-00(812)	0000812
3B. S.R. 306/Keith Bridge Rd at Parks Rd/Shadburn Rd	STP-0000-00(812)	0000812
3C. S.R. 306/Keith Bridge Rd at Waldrip Rd	STP-0000-00(812)	0000812

Date of Report: October 10, 2000

RECOMMENDATION FOR APPROVAL

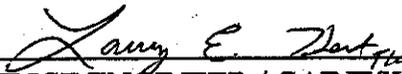
This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Plan (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or the STIP.

DATE STATE TRANSPORTATION PLANNING ADMINISTRATOR

DATE STATE TRANSPORTATION PROGRAMMING ENGINEER

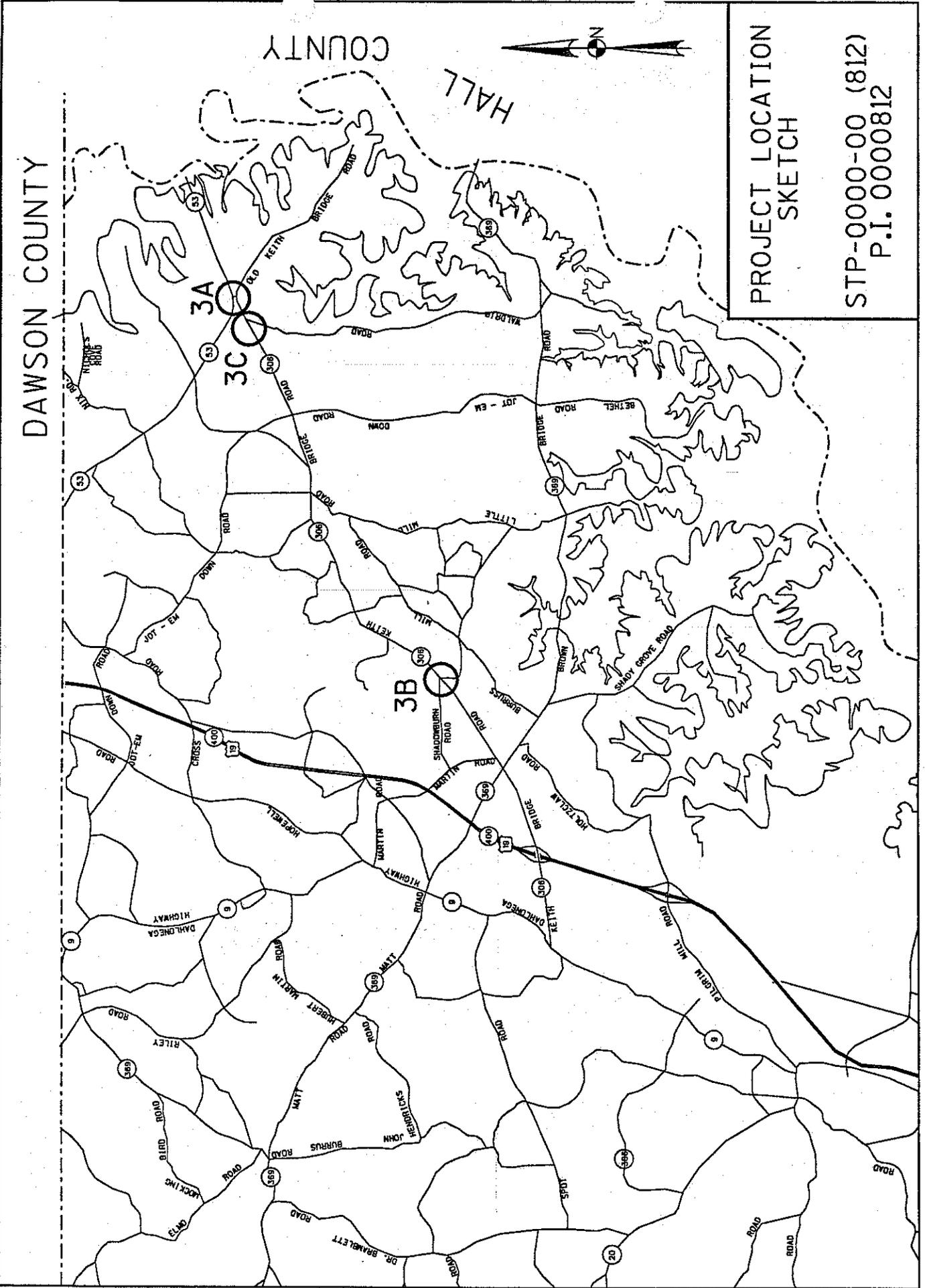
DATE STATE ROAD DESIGN ENGINEER

DATE STATE ENVIRONMENTAL / LOCATION ENGINEER

10/13
DATE 
DISTRICT ENGINEER / GAINESVILLE

DATE PROJECT REVIEW ENGINEER

DATE STATE TRAFFIC OPERATIONS ENGINEER



DAWSON COUNTY

HALL COUNTY

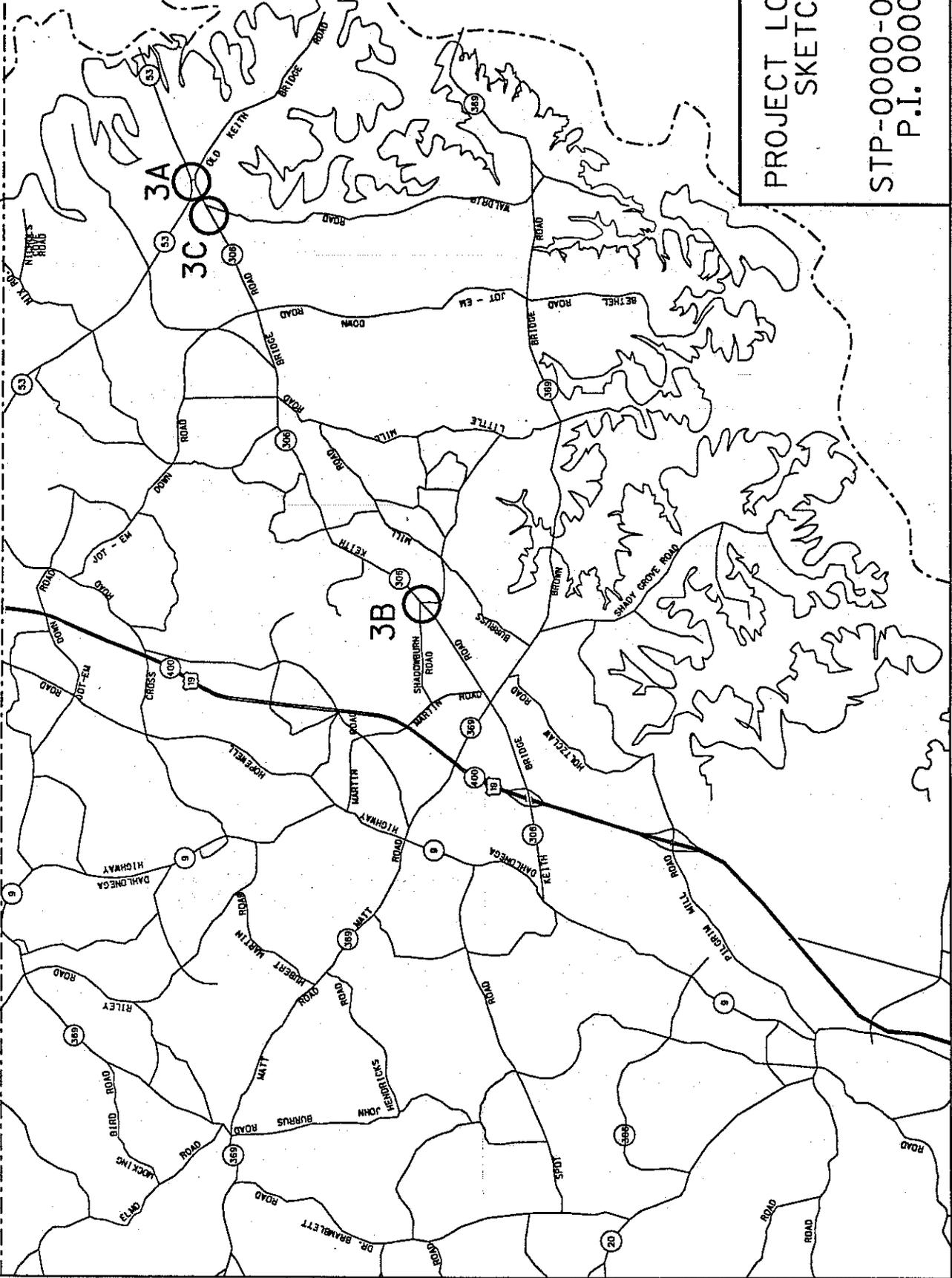


PROJECT LOCATION
SKETCH

STP-0000-00 (812)
P.I. 0000812

3A
3C

3B



PROJECT CONCEPT REPORT

P.I. No.: 0000812

Project No.: STP-0000-00 (812) Forsyth County

Route No.: S.R. 53 (Dawsonville Highway)
 S.R. 306 (Keith Bridge Road)
 C.R. 462 (Old Keith Bridge Road)
 C.R. 141 (Knight Road)

Location: The intersection of S.R. 53 @ S.R. 306 is located approximately 7.8 miles northeast of GA 400 (Exit 17) along Keith Bridge Road, and 10.3 miles northeast of the city limits of Cumming in Forsyth County.

Description: The northbound approach of S.R. 306 would be shifted onto new location, intersecting S.R. 53 approximately 1,500 feet west of its existing location, directly across from realigned Knight Road (CR 141), forming a four-way intersection with a traffic signal. All approaches will be widened to accommodate separate left, through, and right-turn lanes. An additional stop-sign controlled intersection would be formed by extending Old Keith Bridge Road west, over the existing footprint of S.R. 306, intersecting S.R. 306 on new location 500 feet south of the new four-way intersection on S.R. 53. Additionally, the northbound approach of Milford Road (CR 457) would be shifted slightly west to intersect Old Keith Bridge Road at 90 degrees.

<u>Traffic Volumes</u>	<u>1999 ADT</u>	<u>2003 ADT</u>
S.R. 53	14,400	16,900
S.R. 306	7,300	8,500
C.R. 462	1,700	2,000

<u>Existing Posted Speed Limit:</u>		
S.R. 53	.....	55 mph
S.R. 306	.....	55 mph
C.R. 462	.....	45 mph
C.R. 141	.....	25 mph

Existing Typical Section:

S.R. 53: One 12-foot rural travel lane in each direction; grass shoulder with ditch.
 S.R. 306/C.R. 462/ C.R. 141: One 12-foot rural travel lane in each direction; grass shoulder with ditch.

<u>Existing Right-of-way:</u>		
S.R. 53	.....	140 ft.
S.R. 306	.....	85 ft.
C.R. 462	.....	85 ft.
C.R. 141	.....	60 ft.

Utilities: Forsyth County shall be responsible for all utility adjustments. Potential utilities impacted are listed below:

Telephone - BellSouth
Power - GA Power or Sawnee EMC
Water - Forsyth County
Gas - Atlanta Gas Light
Cable - Prestige Cable

Permits Required: None required.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None required.

Time Saving Procedures Appropriate: Yes (X) No ()

Total Estimated Project Cost: \$2,396,210.20 Detailed cost estimate is shown on the next page.

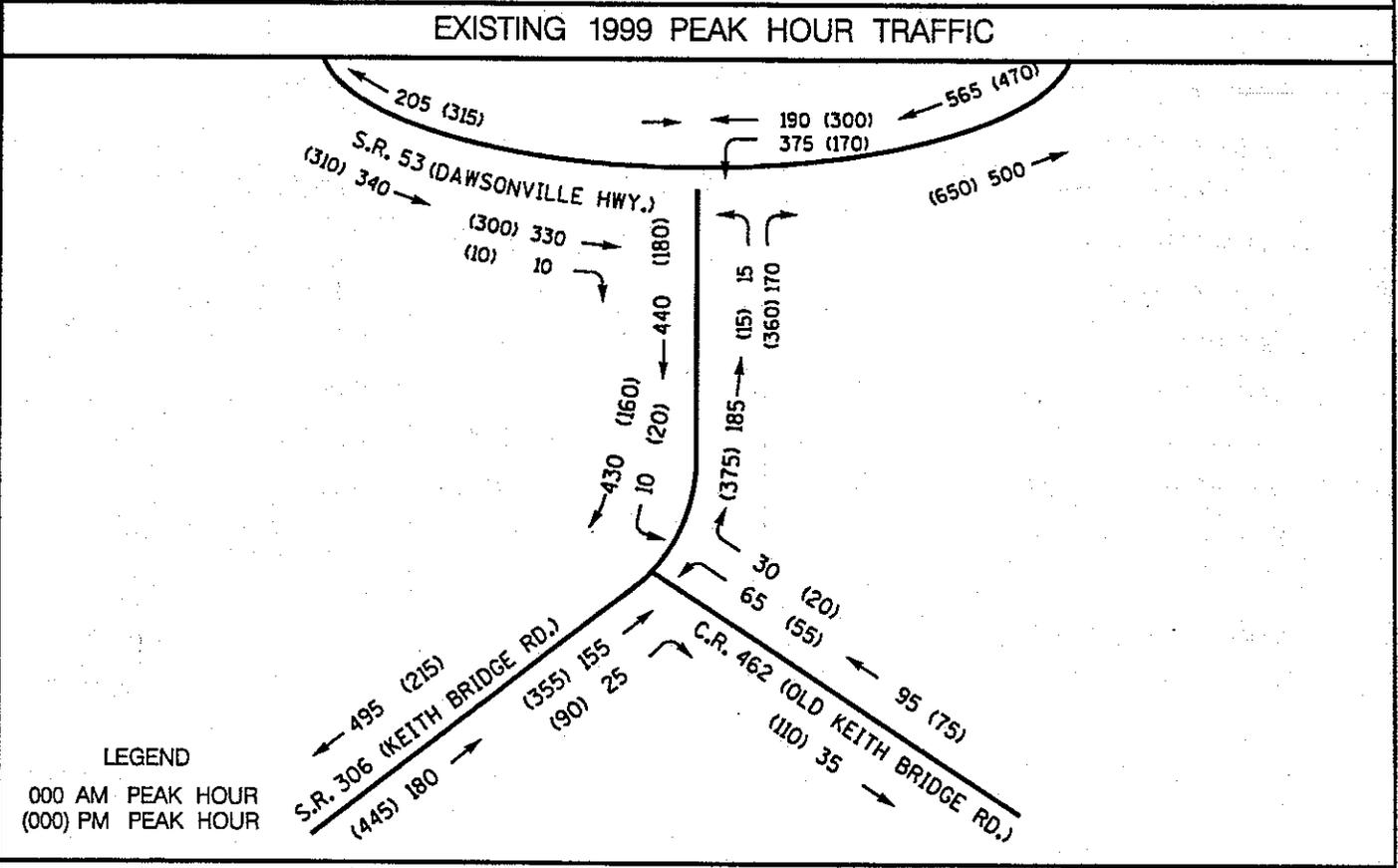
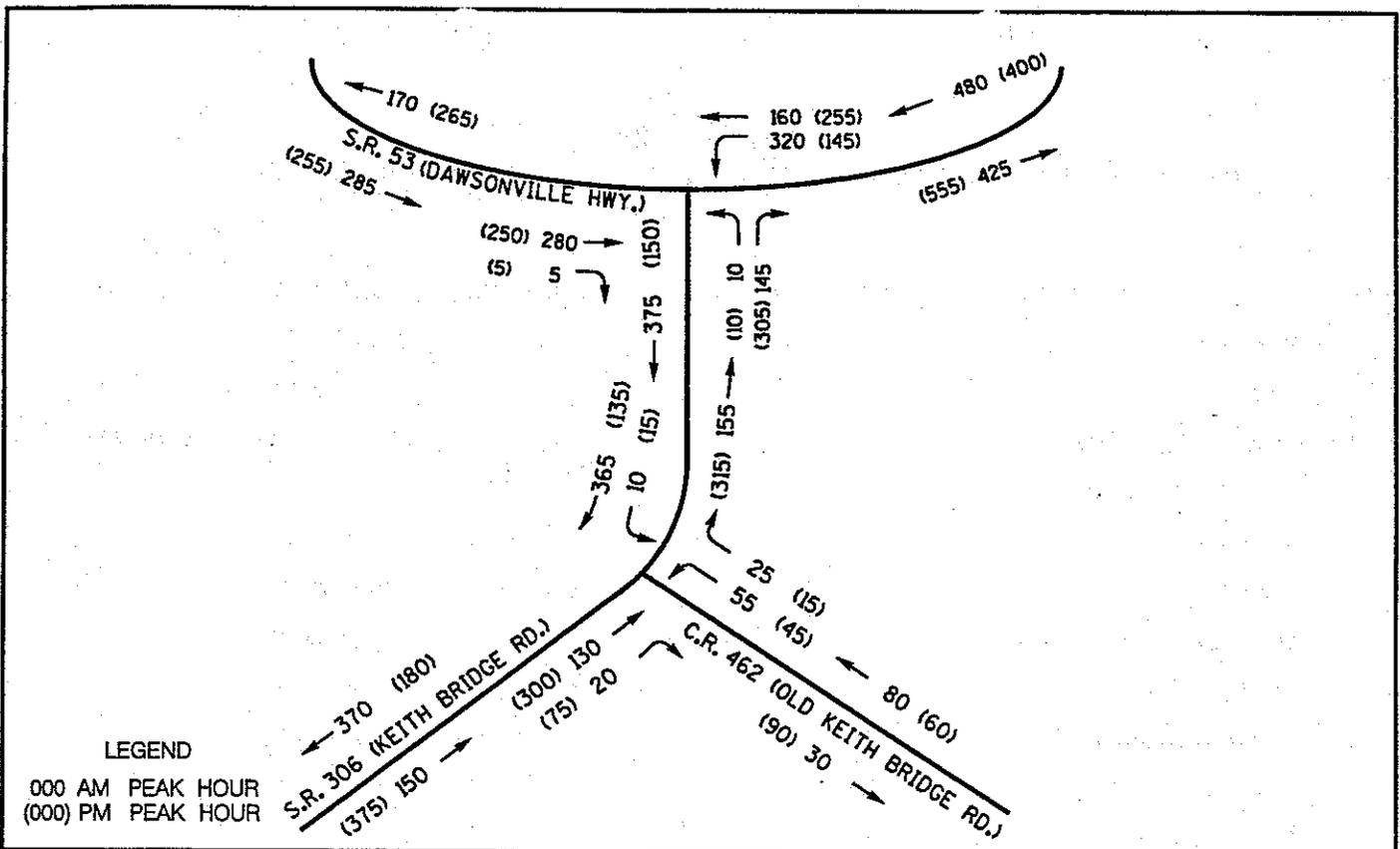
Attachments:

Traffic Flow Diagrams - 1999/2003 Peak Hour Traffic, Typical Section Diagrams, Concept Drawing

ESTIMATED COST

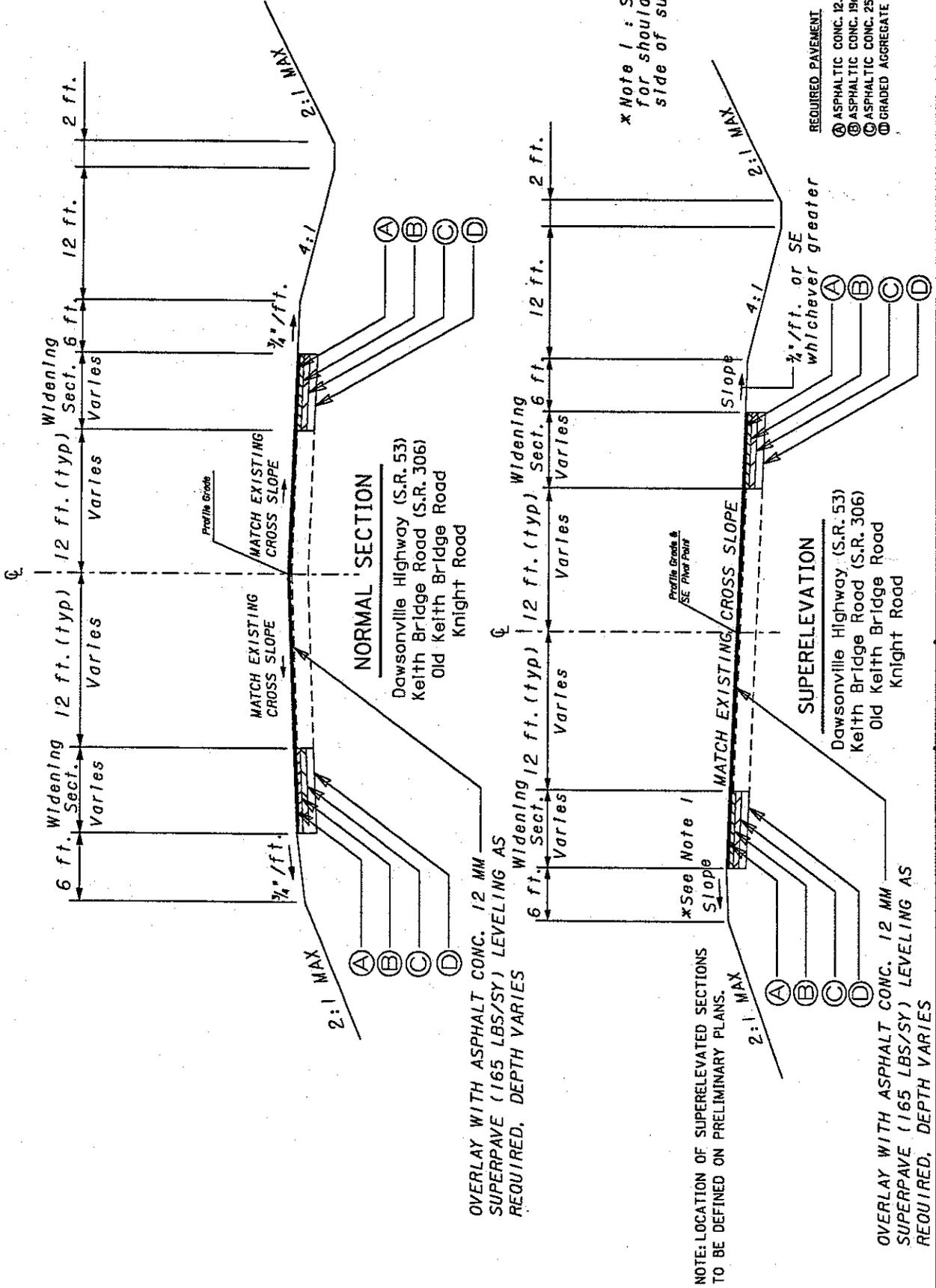
PROJECT NAME: DAWSONVILLE HIGHWAY (S.R. 53) AT KEITH BRIDGE ROAD (S.R. 306)

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	TOTALS
1	Right-Of-Way				\$1,165,000.00	
2	Utilities				LGPA	
	Total Non-Construction					\$1,165,000.00
1	Mobilization	LS	LS	\$50,000.00	\$50,000.00	
2	Traffic Control	LS	LS	\$125,000.00	\$125,000.00	
3	Sediment and Erosion Control	LS	LS	\$60,000.00	\$60,000.00	
4	Clearing	LS	LS	\$150,000.00	\$150,000.00	
5	Grading & Earthwork	LS	LS	\$100,000.00	\$100,000.00	
6	Graded Agg. Base 10"	TN	7,926	\$15.00	\$118,890.00	
7	Asphalt Concrete 12.5 mm SMA 165# /S.Y. (1 1/2")	TN	1,396	\$50.00	\$69,800.00	
8	Asphalt Concrete 19 mm Superpave 220# /s.y. (2")	TN	1,500	\$50.00	\$75,000.00	
9	Asphalt Concrete 25 mm Superpave 440# /s.y. (4")	TN	2,998	\$50.00	\$149,900.00	
10	Bitum Tack Coat	GL	2,157	\$1.50	\$3,235.50	
11	Signalization	LS	LS	\$60,000.00	\$60,000.00	
12	Signs & Pvm't Markings	LS	LS	\$25,000.00	\$25,000.00	
13	Grassing	AC	11.7	\$1,500.00	\$17,550.00	
14	Remove Existing Pavement	SY	7,211	\$3.00	\$21,633.00	
	Total Construction					\$1,026,008.50
	Engineering & Construction (10%)					\$102,600.85
	Inflation (5% for 2 years)					\$102,600.85
	TOTAL PROJECT COST					\$2,396,210.20



TRAFFIC FLOW DIAGRAMS
 S.R. 53 (DAWSONVILLE HWY.) @
 S.R. 306 (KEITH BR. RD.)/C.R. 462 (OLD KEITH BR. RD.)
 STP-0000-00 (812) P.I. 0000812
 FORSYTH COUNTY

NORTH



* Note 1 : See GA STD 9028C for shoulder slope on high side of superelevation.

- REQUIRED PAVEMENT**
- Ⓐ ASPHALTIC CONC. 12.5mm SUPERPAVE (165 lbs/SY)
 - Ⓑ ASPHALTIC CONC. 19mm SUPERPAVE (220 lbs/SY)
 - Ⓒ ASPHALTIC CONC. 25mm SUPERPAVE (440 lbs/SY)
 - Ⓓ GRADED AGGREGATE BASE (10')

NOT TO SCALE

OVERLAY WITH ASPHALT CONC. 12 MM SUPERPAVE (165 LBS/SY) LEVELING AS REQUIRED. DEPTH VARIES

NOTE: LOCATION OF SUPERELEVATED SECTIONS TO BE DEFINED ON PRELIMINARY PLANS.

OVERLAY WITH ASPHALT CONC. 12 MM SUPERPAVE (165 LBS/SY) LEVELING AS REQUIRED. DEPTH VARIES

NORMAL SECTION

Dawsonville Highway (S.R. 53)
 Keith Bridge Road (S.R. 306)
 Old Keith Bridge Road
 Knight Road

SUPERELEVATION

Dawsonville Highway (S.R. 53)
 Keith Bridge Road (S.R. 306)
 Old Keith Bridge Road
 Knight Road

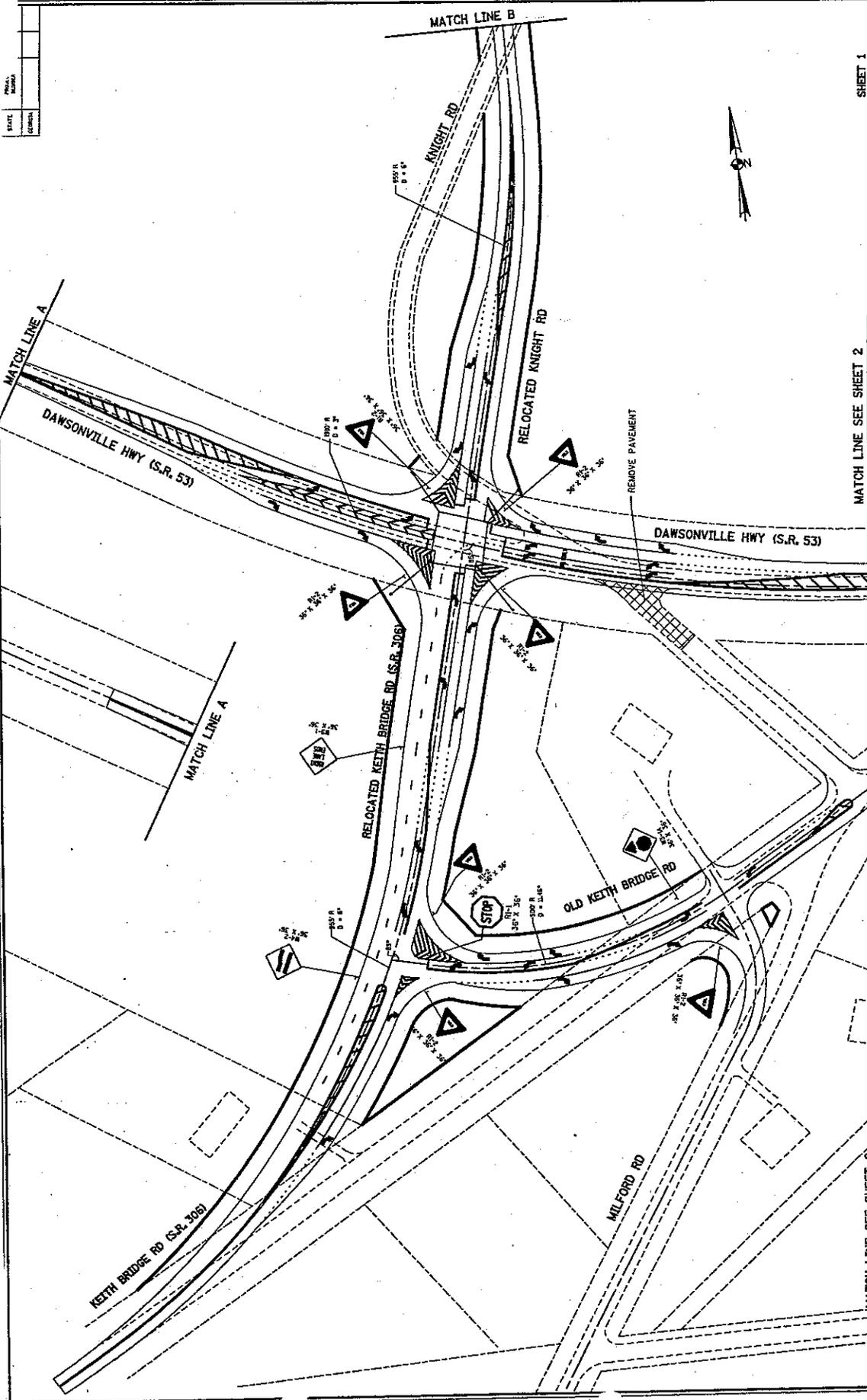


NORTH

TYPICAL SECTIONS

FORSYTH COUNTY INTERSECTION IMPROVEMENTS
 INTERSECTION 3A - STP-0000-00 (812) P.I. 0000812

MA Moreland Altabelli Associates, Inc.



STATE	PROJECT
COUNTY	CONTRACT

MATCH LINE SEE SHEET 2

MATCH LINE SEE SHEET 1

MATCH LINE SEE SHEET 2

MATCH LINE SEE SHEET 1

FORSYTH COUNTY, GEORGIA

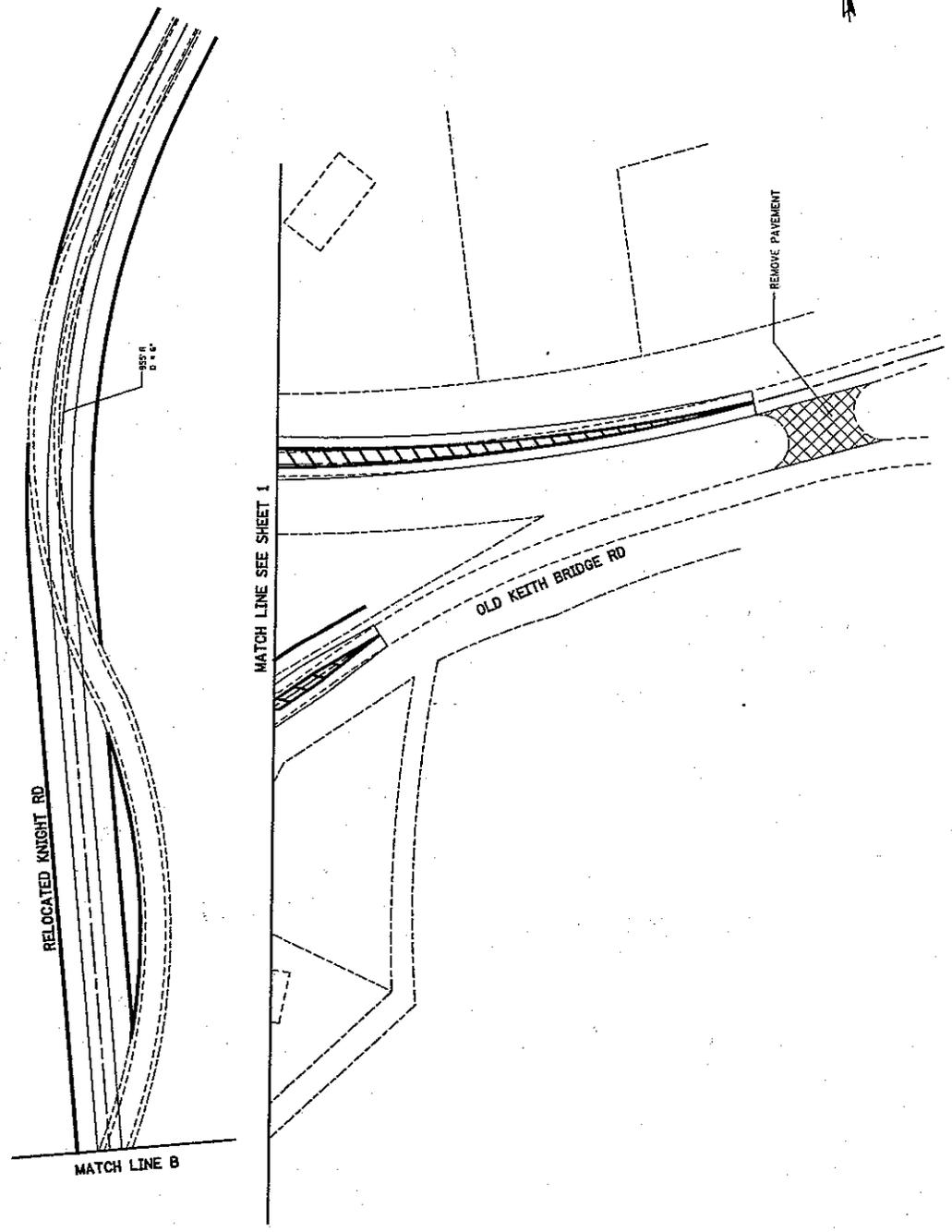
FORSYTH COUNTY INTERSECTION CONCEPTS
STP-0000-00(8)2 P.I. 0000812
KEITH BRIDGE RD (S.R. 306) AT DAWSONVILLE HWY (S.R. 53)

DATE	BY	CHKD	DATE	BY	CHKD

Michael A. Nichols
 Associates, Inc.
 2180 Peachtree Rd., Suite 300
 Atlanta, Georgia 30329
 Telephone: (770) 251-2545

MA

STATE	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
GA			



SHEET 2

FORSYTH COUNTY INTERSECTION CONCEPTS
 STP-0000-004812) P.L. 0000812
 KEITH BRIDGE RD (S.R. 306) AT DAWSONVILLE HWY (S.R. 53)

DATE	BY	CHECKED	DATE	BY	CHECKED

Maryland Alcoholic Beverage Association, Inc.
 2010 Riverchase Blvd, Suite 200
 Fairburn, GA 30208-5948
 Phone: 770.253.5948

MA

Contract: 33-6017.dgn DLT: 02: 2000 16: 38: 29

PROJECT CONCEPT REPORT

P.L. No.: 0000812

Project No.: STP-0000-00 (812) Forsyth County

Route No.: S.R. 306 (Keith Bridge Road)
C.R. 150 (Shadburn Road / Parks Road)

Location: The intersection of S.R. 306 @ C.R. 150 is located along Shadburn Road, approximately 1.16 miles east of Martin Road, which is approximately 0.32 miles east of GA 400, northeast of the city of Cumming in Forsyth County.

Description: S.R. 306 would be widened and resurfaced to provide east and westbound left-turn lanes, and channeled right-turn lanes. Additional right-of-way is required at the corners to accommodate the right-turn lanes, and a traffic signal would be installed. Both approaches along C.R. 150 would be relocated approximately 340 feet west of their existing locations in order to intersect S.R. 306 at 90 degrees. The roadway will be resurfaced and widened to provide north and southbound left-turn lanes, and channeled right-turn lanes.

<u>Traffic Volumes</u>	<u>1999 ADT</u>	<u>2003 ADT</u>
S.R. 306	12,300	14,400
C.R. 150	3,200	3,700

Existing Posted Speed Limit:

S.R. 306	55 mph.
C.R. 150	45 mph.

Existing Typical Section:

S.R. 306: One 12-foot rural travel lane in each direction; grass shoulder with ditch.

C.R. 150: One 12-foot rural travel lane in each direction; grass shoulder with ditch.

Existing Right-of-way:

S.R. 306	80 ft.
C.R. 150	60 - 65 ft.

Existing Traffic Control: Stop-sign control on Shadburn Road / Parks Road.

Existing Major Structures: None

Need and Purpose: Currently, C.R. 150 intersects S.R. 306 at an acute angle, requiring an extensive roadway turning area with increase exposure time for vehicles entering or crossing the main flow of traffic. As a result, intersection and stopping sight-distances are limited. A traffic signal warrant analysis indicates

that a traffic signal is warranted for controlling the overall volume of traffic traveling through the intersection, as well as to minimize side street delay during peak hours.

The realignment of the two approach legs into adjacent quadrants, as well as the addition of a traffic signal and additional turn-lanes, will improve the safety and operational efficiency of the intersection by providing a four-way intersection at right-angles with adequate storage and turning radii for all vehicle types and conditions.

State Route Mile Post: S.R. 306 MP 7.45

PDP Class: Minor Existing

Functional Class: S.R. 306 Rural Major Collector
C.R. 150 Rural Local Road

<u>Max Degree of Curve:</u>	<u>Existing Max Grade:</u>	<u>Angle of Intersection:</u>
S.R. 306: 0°	+/- 2 %	90°
C.R. 150: 11.5°	+/- 2 %	90°

Design Speed: S.R. 306 55 mph
C.R. 150 45 mph

Proposed Typical Section:

S.R. 306: One 12-foot rural travel lane in each direction with left turn lane and right turn lanes at its intersection with C.R. 150; grass 6' shoulders with open ditch section.

C.R. 150: One 12-foot rural travel lane in each direction with left turn and right turn lanes at its intersection with S.R. 306 and 6' grass shoulders with open ditch section.

Proposed Right-of-way Width: S.R. 306 80 ft.
C.R. 150 80 ft.

Number of Parcels Impacted: 7 **Displacements:** RES: 1 BUS: 0 MH: 0

Proposed Major Structures: None.

Type Access: State and County Permit.

Traffic Control During Construction: Traffic will be maintained during construction.

Alternatives Considered:

1. No Build Condition
2. Proposed Project

Design Exceptions Required:

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT	()	()	(X)
ROADWAY WIDTH	()	()	(X)
SHOULDER WIDTH	()	()	(X)
VERTICAL GRADES	()	()	(X)
CROSS SLOPES	()	()	(X)
STOPPING SIGHT DISTANCE	()	()	(X)
SUPERELEVATION RATES	()	()	(X)
HORIZONTAL CLEARANCE	()	()	(X)
SPEED DESIGN	()	()	(X)
VERTICAL CLEARANCE	()	()	(X)

Utilities: Forsyth County shall be responsible for all utility adjustments. Potential utilities impacted are listed below:

- Telephone - BellSouth
- Power - GA Power or Sawnee EMC
- Water - Forsyth County
- Cable - Prestige Cable

Permits Required: None required.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None required.

Time Saving Procedures Appropriate: Yes (X) No ()

Total Estimated Project Cost: \$1,308,536.80 Detailed cost estimate is shown on the next page.

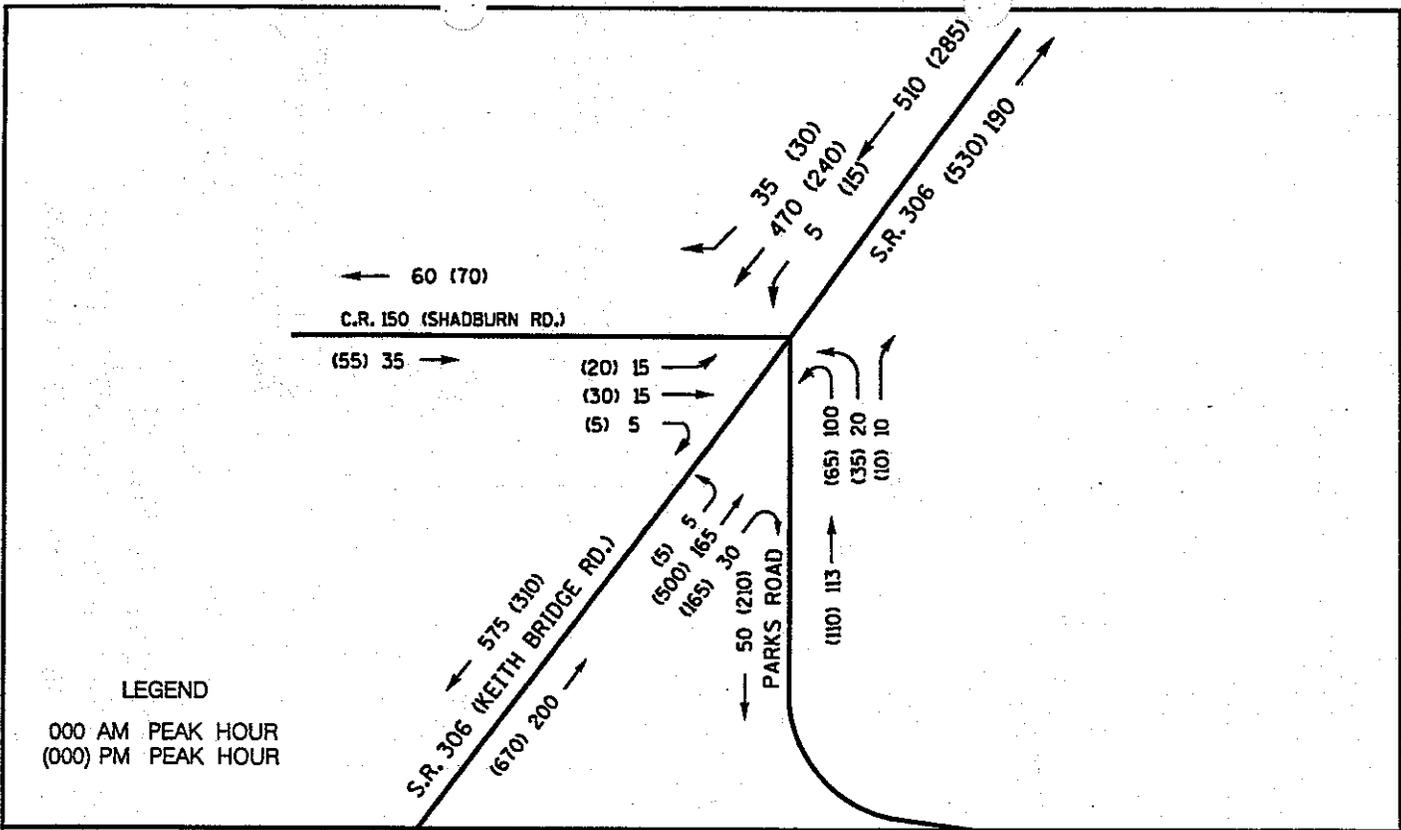
Attachments:

Traffic Flow Diagrams - 1999/2003 Peak Hour Traffic, Typical Section Diagrams, Concept Drawing

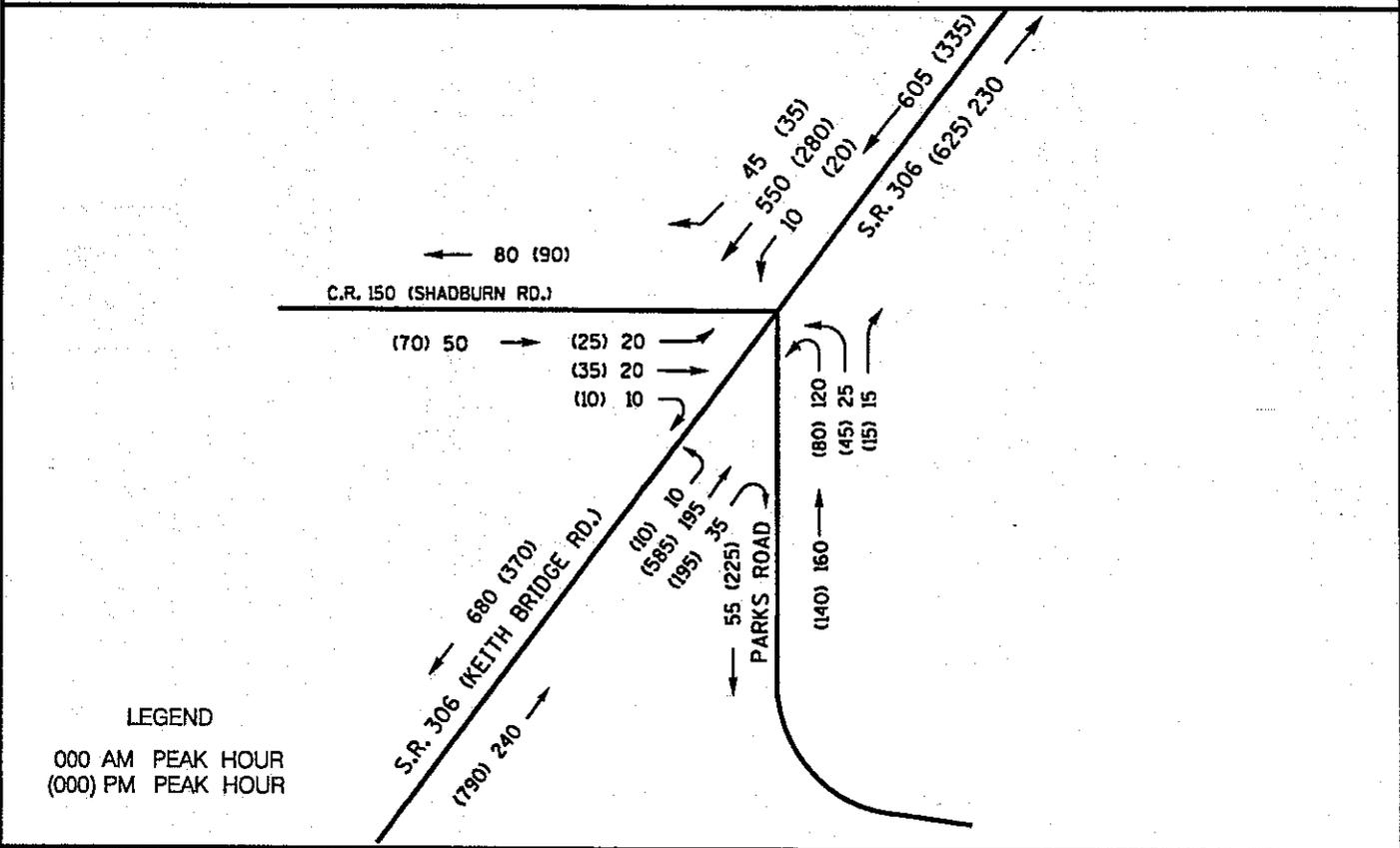
ESTIMATED COST

PROJECT NAME: KEITH BRIDGE ROAD (S.R.306) AT SHADBURN ROAD/PARKS ROAD

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	TOTALS
1	Right-Of-Way				\$670,000.00	
2	Utilities				LGPA	
	Total Non-Construction					\$670,000.00
1	Mobilization	LS	LS	\$10,000.00	\$10,000.00	
2	Traffic Control	LS	LS	\$50,000.00	\$50,000.00	
3	Sediment and Erosion Control	LS	LS	\$20,000.00	\$20,000.00	
4	Clearing	LS	LS	\$75,000.00	\$75,000.00	
5	Graded Agg. Base 10"	TN	1,571	\$15.00	\$23,565.00	
6	Asphalt Concrete 12.5 mm SMA 165# /S.Y. (1 1/2")	TN	998	\$50.00	\$49,900.00	
7	Asphalt Concrete 19 mm Superpave 220# /s.y. (2")	TN	1,330	\$50.00	\$66,500.00	
8	Asphalt Concrete 25 mm Superpave 440# /s.y. (4")	TN	2,660	\$50.00	\$133,000.00	
9	Bitum Tack Coat	GL	1,816	\$1.50	\$2,724.00	
10	Concrete Driveway 6"	SY	44	\$30.00	\$1,320.00	
11	Signalization	LS	LS	\$60,000.00	\$60,000.00	
12	Signs & Pvm't Markings	LS	LS	\$10,000.00	\$10,000.00	
13	Grassing	AC	5.5	\$1,500.00	\$8,250.00	
14	Remove Existing Pavement	SY	7,133	\$3.00	\$21,399.00	
15	Remove Existing Driveway	SY	152	\$3.00	\$456.00	
	Total Construction					\$532,114.00
	Engineering & Construction (10%)					\$53,211.40
	Inflation (5% for 2 years)					\$53,211.40
	TOTAL PROJECT COST					\$1,308,536.80



EXISTING 1999 PEAK HOUR TRAFFIC

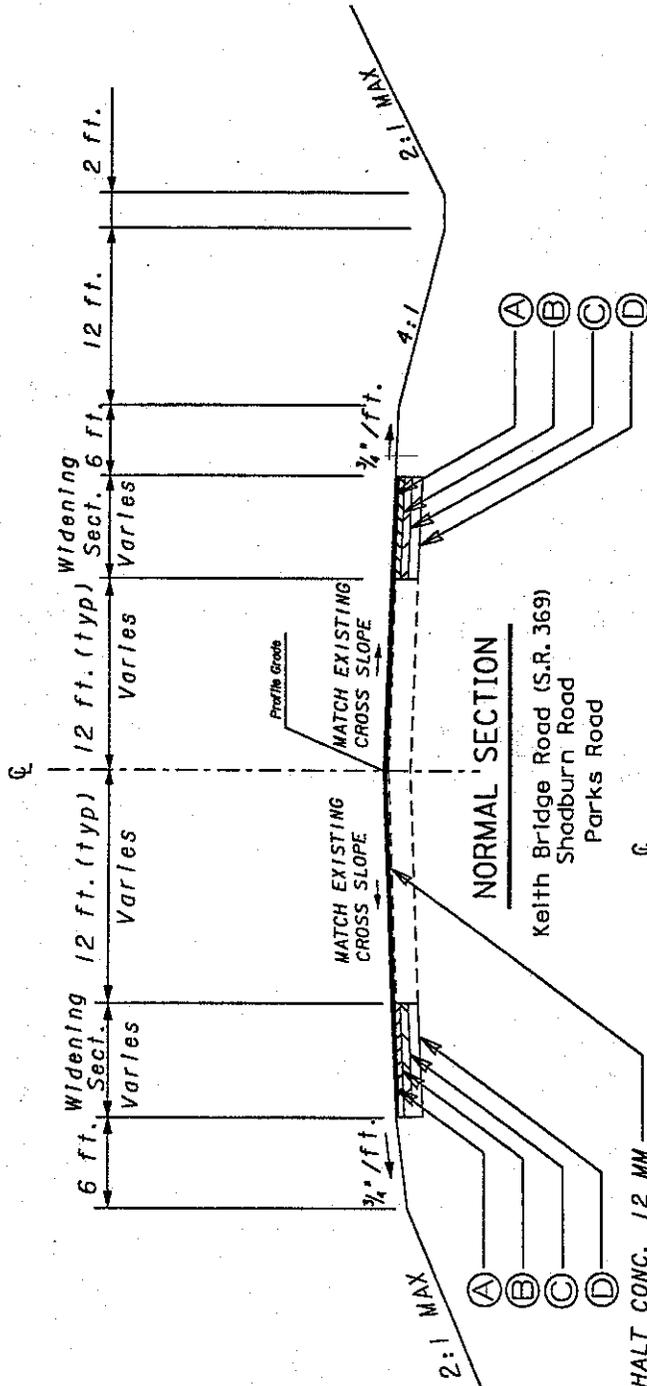


FUTURE 2003 PEAK HOUR TRAFFIC

MA Moreland Altobelli
 Associates, Inc.



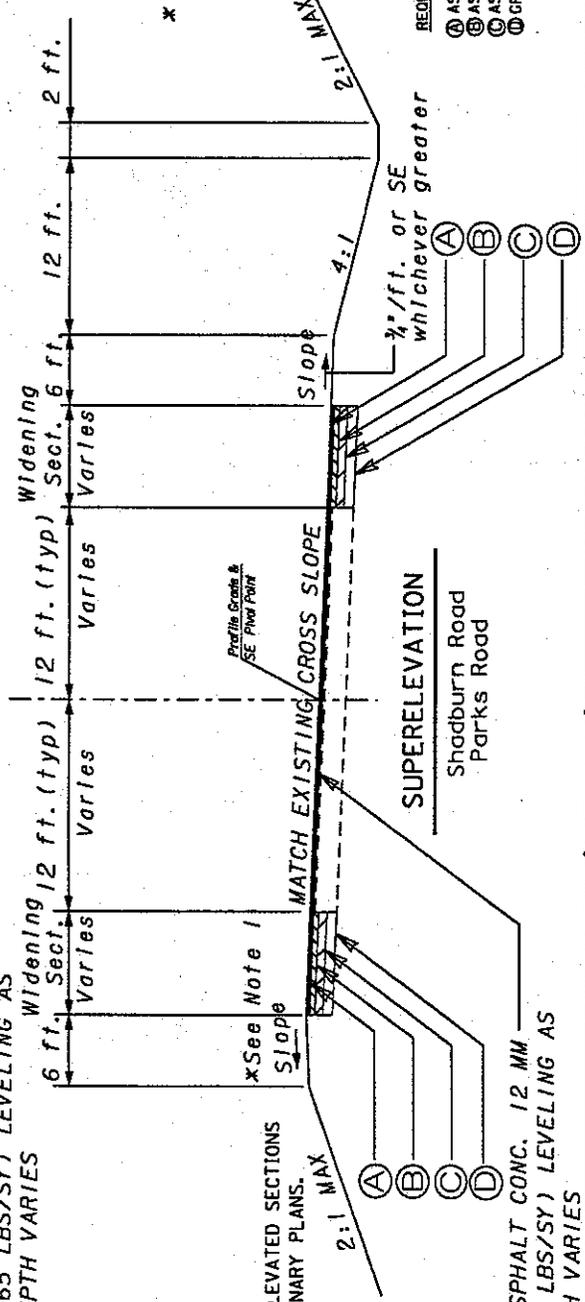
TRAFFIC FLOW DIAGRAMS
 S.R. 306 (KEITH BRIDGE RD.) @ C.R. 150
 (SHADBURN RD./PARKS RD.)
 STP-000-00 (812) P.I. 0000812
 FORSYTH COUNTY



NORMAL SECTION

Keith Bridge Road (S.R. 369)
Shadburn Road
Parks Road

OVERLAY WITH ASPHALT CONC. 12 MM SUPERPAVE (165 LBS/SY) LEVELING AS REQUIRED, DEPTH VARIES



SUPERELEVATION

Shadburn Road
Parks Road

OVERLAY WITH ASPHALT CONC. 12 MM SUPERPAVE (165 LBS/SY) LEVELING AS REQUIRED, DEPTH VARIES

* Note 1 : See GA STD 9028C for shoulder slope on high side of superelevation.

REQUIRED PAVEMENT

- Ⓐ ASPHALTIC CONC. 12.5mm SUPERPAVE (165 lbs/SY)
- Ⓑ ASPHALTIC CONC. 19mm SUPERPAVE (220 lbs/SY)
- Ⓒ ASPHALTIC CONC. 25mm SUPERPAVE (440 lbs/SY)
- Ⓓ GRADED AGGREGATE BASE (10')

NOT TO SCALE

NOTE: LOCATION OF SUPERELEVATED SECTIONS TO BE DEFINED ON PRELIMINARY PLANS.

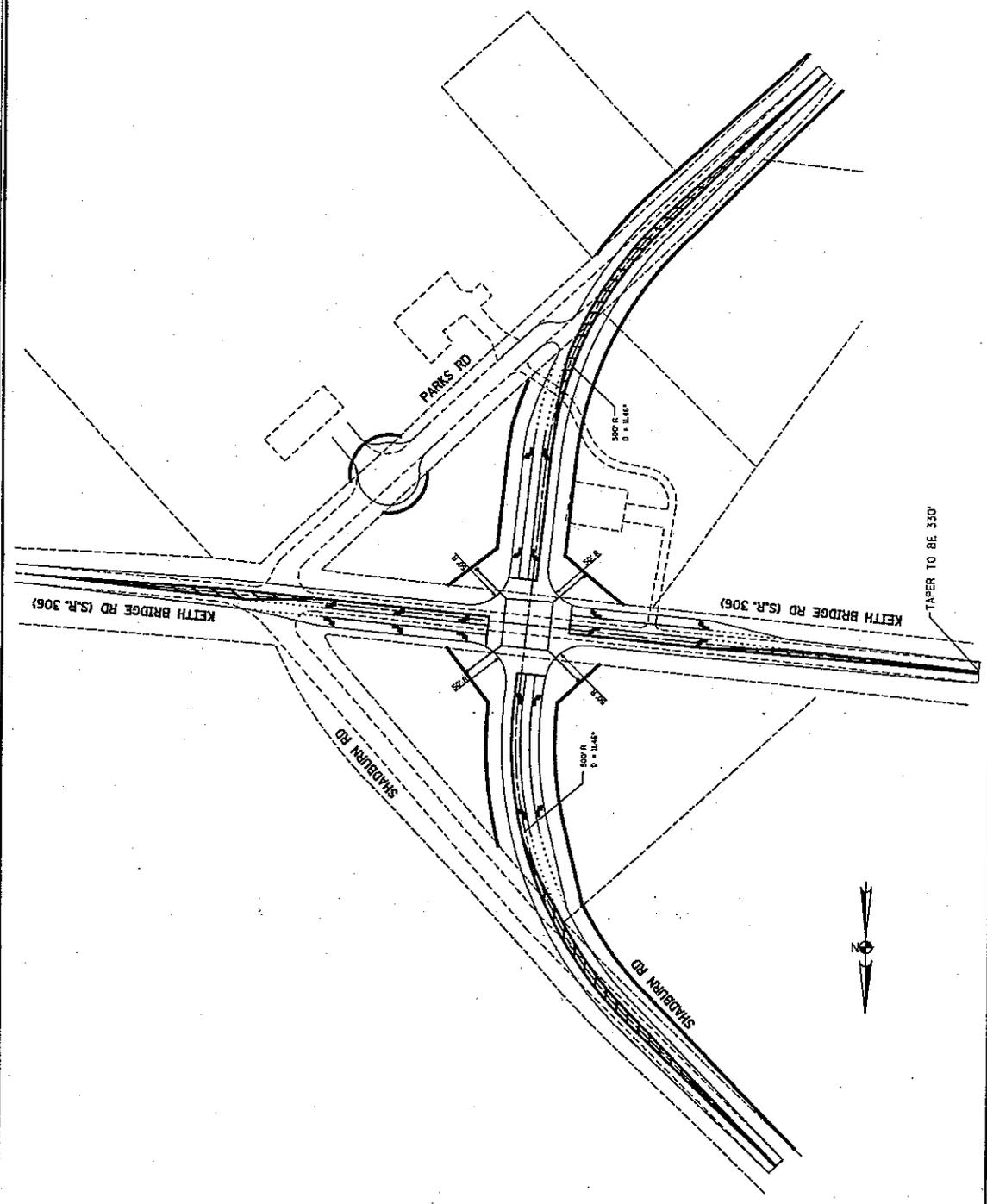


TYPICAL SECTIONS

FORSYTH COUNTY INTERSECTION IMPROVEMENTS
INTERSECTION 3B - STP-0000-00 (812) P.I. 0000812

MA Moreland Altabelli Associates, Inc.

STATE	NO. 1	DATE	11/17/00
COUNTY	FORSYTH	PROJECT	INTERSECTION CONCEPTS
		NO. 1	DATE
		NO. 2	DATE



DATE	NO.	REVISIONS	DATE	NO.	REVISIONS	DATE	NO.
MA Maryland A. J. Belli Associates, Inc. 2015 Northwood Court, Suite 301 Norfolk, VA 23502-3315 Telephone: 757-243-3315				FORSYTH COUNTY INTERSECTION CONCEPTS PROJECT NO. 0000-000122 P.L. 000085Z KEITH BRIDGE RD (S.R. 306) AT PARKS RD/SHADBURN RD			
... 197 INTERCOM/BE13/3-00253.001 OCT. 02, 2000 18:38:50				SHEET NO. 3B			

PROJECT CONCEPT REPORT

P.I. No.: 0000812

Project No.: STP-0000-00 (812) Forsyth County

Route No.: S.R. 306 (Keith Bridge Road)
C.R. 65 (Waldrip Road)

Location: The intersection of S.R. 306 @ C.R. 65 is located approximately 7.0 miles west of GA 400 along S.R. 306 (Keith Bridge Road) via S.R. 369 (Browns Bridge Road), northeast of the city of Cumming in Forsyth County.

Description: S.R. 306 would be widened and resurfaced to provide a westbound left-turn lane, and an eastbound right-turn lane. Waldrip Road will be widened to provide a channelized right-turn lane with a striped turning island. Right-of-way is required on the east side of Waldrip Road as well as the west corner to accommodate the right-turn lanes.

<u>Traffic Volumes</u>	<u>1999 ADT</u>	<u>2003 ADT</u>
S.R. 306	7,900	9,300
C.R. 65	1,200	1,400

Existing Posted Speed Limit:

S.R. 306	55 mph.
C.R. 65	45 mph.

Existing Typical Section:

S.R. 306: One 12-foot rural travel lane in each direction; grass shoulder.

C.R. 65: One 12-foot rural travel lane in each direction; grass shoulder.

Existing Right-of-way:

S.R. 306	80 ft.
C.R. 65	60 ft.

Existing Traffic Control: Stop-sign control on Waldrip Road.

Existing Major Structures: None

Need and Purpose: Although no significant accident history exists at this intersection from 1995 to 1997, the existing intersection configuration consisting of shared lanes for all turning movements which impedes traffic flow. Also, intersection does not have adequate turning radii for truck traffic.

The additional turn lanes with striped turning islands and extra paved shoulder will improve the safety and operational efficiency of the intersection by providing adequate storage capacity and turning radii for all vehicle types and conditions.

Intersection State Route Mile Post: S.R. 306 MP 12.39

PDP Class: Minor Existing

Functional Class: S.R. 306 Rural Major Collector
C.R. 65 Rural Local Road

<u>Max. Degree of Curve:</u>	<u>Existing Maximum Grade:</u>	<u>Angle of Intersection:</u>
S.R. 306: 0°	+/-2 %	85°
C.R. 65: 0°	+/-4%	85°

Design Speed: S.R. 306 55 mph
C.R. 65 45 mph

Proposed Typical Section:

S.R. 306: One 12-foot rural travel lane in each direction with left turn lane and right turn lanes at its intersection with C.R. 150; grass 6' shoulders with open ditch section.

C.R. 150: One 12-foot rural travel lane in each direction with left turn and right turn lanes at its intersection with S.R. 306 and 6' grass shoulders with open ditch section.

Proposed Right-of-way Width: S.R. 306 80 ft.
C.R. 65 80 ft.

Number of Parcels Impacted: 1 **Displacements:** RES: 0 BUS: 0 MH: 0

Proposed Major Structures: None.

Type Access: State and County Permit.

Traffic Control During Construction: Traffic will be maintained during construction.

Alternatives Considered:

1. No Build Condition
2. Proposed Project

Design Exceptions Required:

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT	()	()	(X)
ROADWAY WIDTH	()	()	(X)
SHOULDER WIDTH	()	()	(X)
VERTICAL GRADES	()	()	(X)
CROSS SLOPES	()	()	(X)
STOPPING SIGHT DISTANCE	()	()	(X)
SUPERELEVATION RATES	()	()	(X)
HORIZONTAL CLEARANCE	()	()	(X)
SPEED DESIGN	()	()	(X)
VERTICAL CLEARANCE	()	()	(X)

Utilities: Forsyth County shall be responsible for all utility adjustments. Potential utilities impacted are listed below:

- Telephone - BellSouth
- Power - GA Power or Sawnee EMC
- Water - Forsyth County
- Gas - Atlanta Gas Light
- Cable - Prestige Cable

Permits Required: None required.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None required.

Time Saving Procedures Appropriate: Yes (X) No ()

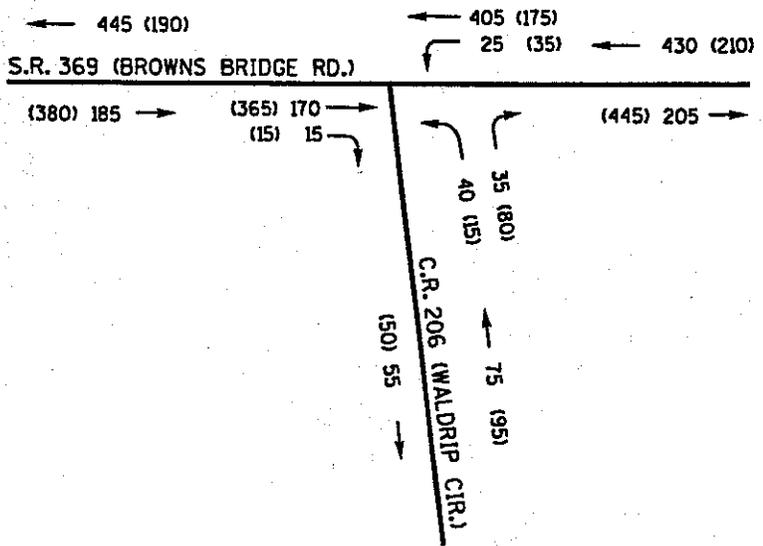
Total Estimated Project Cost: \$251,172.80 Detailed cost estimate is shown on the next page.

Attachments: Traffic Flow Diagrams - 1999/2003 Peak Hour Traffic, Typical Section Diagram, Concept Drawing

ESTIMATED COST

PROJECT NAME: KEITH BRIDGE ROAD (S.R.306) AT WALDRIP ROAD

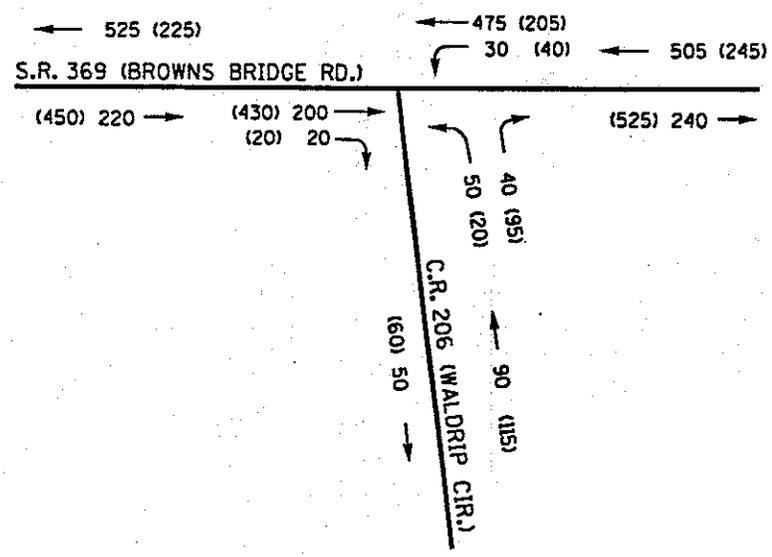
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	TOTALS
1	Right-Of-Way				\$20,000.00	
2	Utilities				LGPA	
	Total Non-Construction					\$20,000.00
1	Mobilization	LS	LS	\$10,000.00	\$10,000.00	
2	Traffic Control	LS	LS	\$50,000.00	\$50,000.00	
3	Sediment and Erosion Control	LS	LS	\$20,000.00	\$20,000.00	
4	Clearing	LS	LS	\$10,000.00	\$10,000.00	
5	Graded Agg. Base 10"	TN	1,360	\$15.00	\$20,400.00	
6	Asphalt Concrete 12.5 mm SMA 165# /S.Y. (1 1/2")	TN	520	\$50.00	\$26,000.00	
7	Asphalt Concrete 19 mm Superpave 220# /s.y. (2")	TN	300	\$50.00	\$15,000.00	
8	Asphalt Concrete 25 mm Superpave 440# /s.y. (4")	TN	600	\$50.00	\$30,000.00	
9	Bitum Tack Coat	GL	1,296	\$1.50	\$1,944.00	
12	Signs & Pvm't Markings	LS	LS	\$4,500.00	\$4,500.00	
13	Grassing	AC	3.2	\$1,500.00	\$4,800.00	
	Total Construction					\$192,644.00
	Engineering & Construction (10%)					\$19,264.40
	Inflation (5% for 2 years)					\$19,264.40
	TOTAL PROJECT COST					\$251,172.80



LEGEND

000 AM PEAK HOUR
 (000) PM PEAK HOUR

EXISTING 1999 PEAK HOUR TRAFFIC



LEGEND

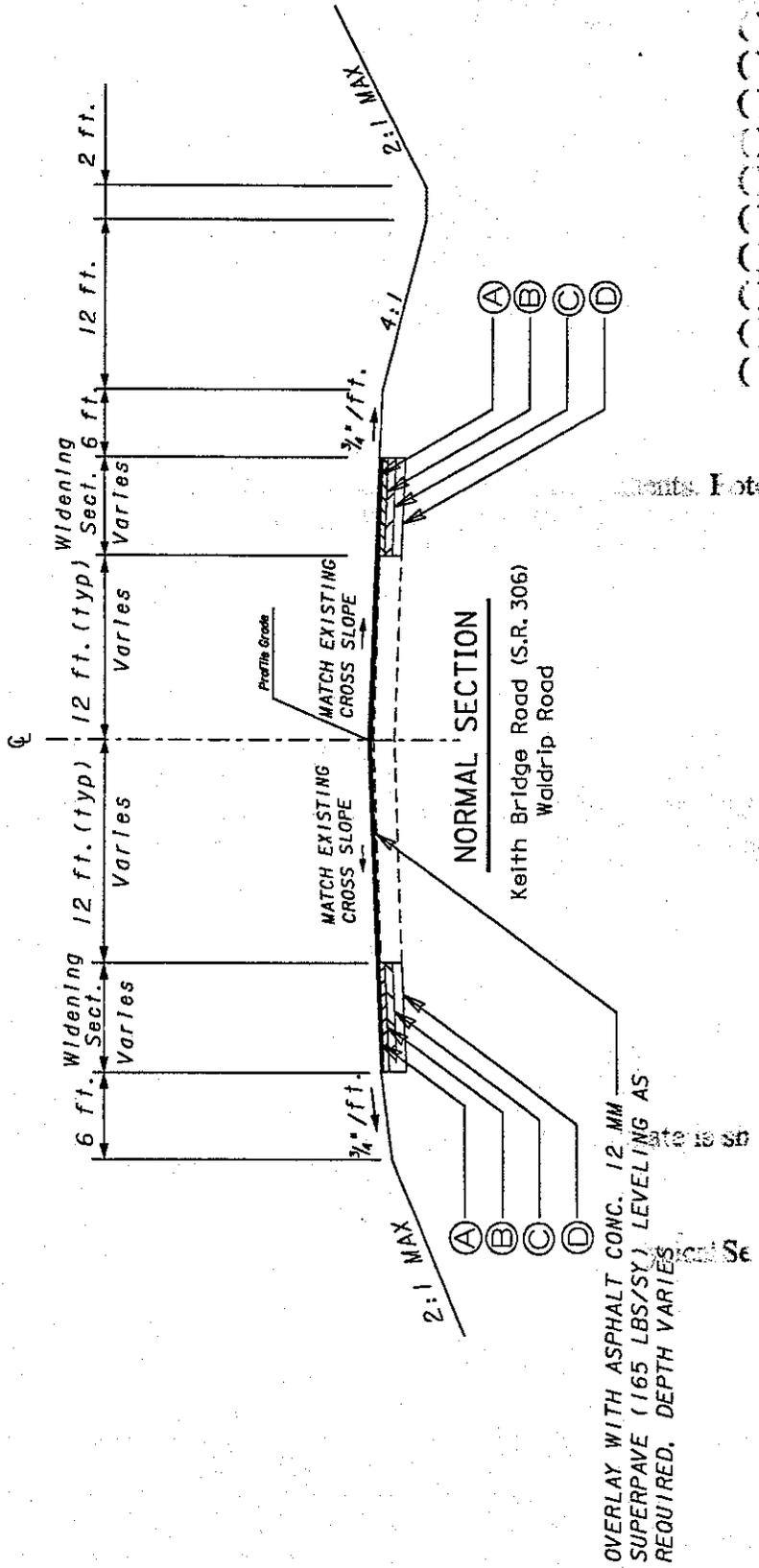
000 AM PEAK HOUR
 (000) PM PEAK HOUR

YEAR 2003 PEAK HOUR TRAFFIC

MA Moreland Altobelli
 Associates, Inc.



TRAFFIC FLOW DIAGRAMS
 S.R. 306 (KEITH BRIDGE RD.) @ C.R. 457 (WALDRIP ROAD)
 STP-0000-00 (812) P.I. 0000812
 FORSYTH COUNTY

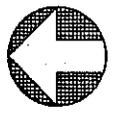
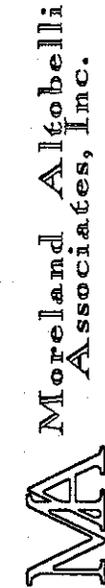


OVERLAY WITH ASPHALT CONC. 12 MM SUPERPAVE (165 LBS/SY) LEVELING AS REQUIRED. DEPTH VARIES.

REQUIRED PAVEMENT

- Ⓐ ASPHALTIC CONC. 12.5mm SUPERPAVE (165 lbs/SY)
- Ⓑ ASPHALTIC CONC. 19mm SUPERPAVE (220 lbs/SY)
- Ⓒ ASPHALTIC CONC. 25mm SUPERPAVE (440 lbs/SY)
- Ⓓ GRADED AGGREGATE BASE (10')

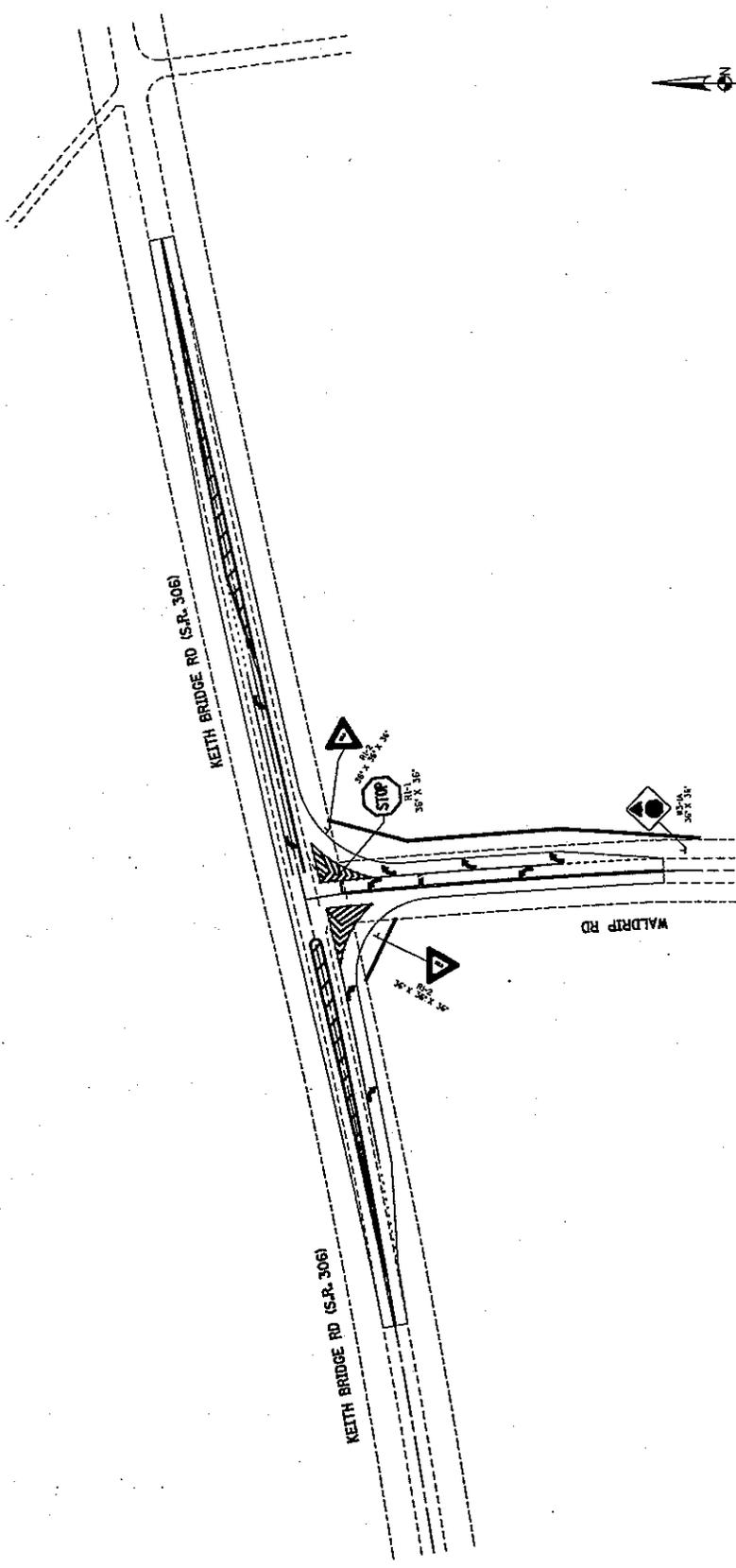
NOT TO SCALE



TYPICAL SECTIONS

FORSYTH COUNTY INTERSECTION IMPROVEMENTS
 INTERSECTION 3C - STP-0000-00 (812) P.I. 0000812

DATE	DESIGN	SCALE	SHEET



REVISIONS NO. DATE DESCRIPTION		MA Metropolitan Atlanta 221 Beaver Run Road, Suite 800 Marietta, GA 30066 Telephone: 770-593-3368		FORSYTH COUNTY INTERSECTION CONCEPTS STP-0000-00802) P.I. 0000812 KEITH BRIDGE RD (S.R. 306) AT WALDRIP RD		SHEET 30
DATE	BY	DATE	BY	DATE	BY	DATE

NOTICE OF LOCATION AND DESIGN APPROVAL

**GDOT Project STP-0000-00 (812); P.L. No. 0000812
FORSYTH COUNTY**

Notice is hereby given *in compliance with Georgia code 22-2-109* that the Georgia Department of Transportation has approved the Location and Design of the above project. Project STP-0000-00 (812) consists of intersection improvements at the following locations in Forsyth County.

Intersection 3A - S.R. 306/Keith Bridge Road at S.R. 53/Dawsonville Highway.

This project consist of widening and relocating the existing intersections of S.R. 53 and S.R. 306, with subsequent intersection and roadway improvements on Old Keith Bridge Road and Milford Road. The intersection of S.R. 53 @ S.R. 306 is located approximately 7.8 miles northeast of GA 400 (Exit 17) along Keith Bridge Road, and 10.3 miles northeast of the city limits of Cumming in Forsyth County. This project lies within Land Lots 1197 & 1214, District 14 in Forsyth County.

Intersection 3B - S.R. 306/Keith Bridge Road at Parks Road/Shadburn Road/C.R. 150.

This project consists of relocation and intersection safety/operational improvements, including the addition of turn lanes consistent with existing peak hour traffic volumes. This project is located within Land Lots 490 & 491 and 526 & 527, District 14; approximately 1.16 miles east of Martin Road, which is approximately 0.32 miles east of GA 400, northeast of the city of Cumming in Forsyth County.

Intersection 3C - S.R. 306/Keith Bridge Road at Waldrip Road/C.R. 65.

The project consists of intersection safety/operational improvements, including the addition of turn lanes consistent with existing peak hour traffic volumes. This project is located within Land Lot 1144, District 14; approximately 7.0 miles west of GA 400 along S.R. 306 (Keith Bridge Road) via S.R. 369 (Browns Bridge Road), northeast of the city of Cumming in Forsyth County.

Date of Location Approval: _____

Drawings of maps, and/or plats of the proposed project *as approved* are on file and are available for inspection at the Georgia Department of Transportation, Gainesville District Office, P.O. Box 1057, Gainesville, Georgia 30503-1057. Or, any interested party may obtain a copy of the drawings of maps and/or plats by writing to the Georgia Department of Transportation, No. 2 Capital Square, Atlanta, Georgia 30334 and paying a nominal cost therefor.

Any written request in reference to this Notice *SHOULD include the PROJECT NUMBERS AS NOTED AT THE TOP OF THIS NOTICE AND may be referred to:*

Todd Long, District Preconstruction Engineer
Department of Transportation
Gainesville District Office
P.O. Box 1057
Gainesville, Georgia 30503-1057
(770) 532-5520

**Minutes of Concept Team Meeting
August 25, 2000**

**Forsyth County Intersection Improvement Projects
Project Number: STP-0000-00-(810) P.I. No 00000810
Project Number: STP-0000-00-(811) P.I. No 00000811
Project Number: STP-0000-00-(812) P.I. No 00000812**

ATTENDEES	ORGANIZATION	PHONE NUMBER
Barry Lucas	Forsyth County Water	770-886-2793
Mike Wilson	Atlanta Gas Light Co.	404-584-4677
Andrew Aiello	GDOT Environment	404-699-4432
Dania Aponte	GDOT Environment	404-699-4438
Michael Seabolt	Utility Office	770-718-5033
Allen Ferguson	GDOT - Utilities	770-532-5510
Jimmy Vaughan	Moreland Altobelli Assoc., Inc.	770-886-9549
Karla Poshedly	Moreland Altobelli Assoc., Inc.	770-263-5945
Joe Garland	GDOT - Traffic Operations.	770-532-5563
Tim Allen	Forsyth County Engineer	770-781-2165
R. Keith Canup	GDOT - Traffic Operations	770-532-5563
Danny Seale	Alltel	706-279-7534
Ronnie Gallman	Alltel	770-479-3900
Jeannine Rispin	Georgia Transmission	770-270-7741
Don Frazier	City of Cumming	770-781-2010
Todd Long	GDOT Preconstruction Engineer	770-532-5520

Mr. Todd Long opened the meeting with introductions of everyone present. He then stated that he would give an overview description of each intersection project then Ms. Karla Poshedly will present each intersection improvement drawing so that everyone will have an opportunity to make their comments on each intersection.

Mr. Long stated that right-of-way acquisition will be set for the year 2002 with construction slated for the year 2003.

General Comments made:

- Show larger corner miters at all intersections including unsignalized intersections.
- There are no bike routes or bike lanes required at any of the intersections.
- Place overhead lane control signs at all intersections where two state routes cross.
- Place signal ahead signs approaching all existing and new traffic signal locations.
- Make all stop signs at unsignalized intersections 36" x 36".

Specify intersection comments:

- 1G. S.R. 20 @ Tribble Road /Post Road. Show double left turn lanes on westbound S.R. 20 to southbound Post Road (S.R. 371).
- 2B. S.R. 369 @ Waldrip Road/Waldrip Circle. Show connection of old Waldrip Circle to new Waldrip Circle.
- 2C. S.R. 369 @ Doc Bramblett Road. Show connection of old Doc Bramblett Road to new Doc Bramblett Road. Cul-de-sac the old section of Doc Bramblett Road south of the Church property.
- 2E. S.R. 369 @ Holtzclaw Road. Check traffic volumes during school. This intersection may need to be signalized.
- 2F. S.R. 369 @ Shady Grove Road. Show a dirt berm along S.R. 369 at the cul-de-sac of the old portion of Shady Gove Road.
- 3C S.R. 306 @ Waldrip Road. The percent grade of Waldrip Road is greater than what is shown in the concept report. MAAI will correct.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

FORSYTH COUNTY

<u>LOCATION</u>	<u>PROJECT NO.</u>	<u>P.I. #</u>
3A. S.R. 306/Keith Bridge Rd at S.R. 53	STP-0000-00(812)	0000812
3B. S.R. 306/Keith Bridge Rd at Parks Rd/Shadburn Rd	STP-0000-00(812)	0000812
3C. S.R. 306/Keith Bridge Rd at Waldrip Rd	STP-0000-00(812)	0000812

Date of Report: October 10, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Plan (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or the STIP.

DATE

10/18/00

DATE

STATE TRANSPORTATION PLANNING ADMINISTRATOR



STATE TRANSPORTATION PROGRAMMING ENGINEER

DATE

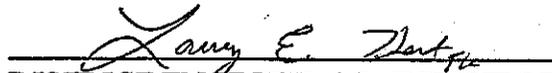
STATE ROAD DESIGN ENGINEER

DATE

STATE ENVIRONMENTAL / LOCATION ENGINEER

10/13

DATE


DISTRICT ENGINEER / GAINESVILLE

DATE

PROJECT REVIEW ENGINEER

DATE

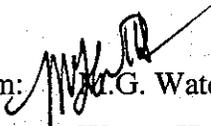
STATE TRAFFIC OPERATIONS ENGINEER

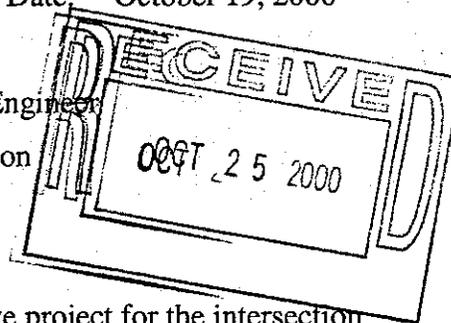
Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: STP-0000-00(812)/Forsyth County
P.I. No. 0000812

Office: Traffic Operations
Atlanta, Georgia
Date: October 19, 2000

From:  M.G. Waters, III, P.E., State Traffic Operations Engineer
To: Wayne Hutto, Assistant Director of Preconstruction



Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the intersection improvements at several locations along SR 306(Keith Bridge Road) northeast of the city of Cumming. The affected intersections are SR 53(Dawsonville Highway), Parks Road/Shadburn Road and Waldrip Road.

SR 306 is a rural facility with a posted speed limit of 55mph. Improvements include, but are not limited to, realigning to correct bad skews, adding turn lanes and possibly adding traffic signals.

We believe this concept will improve safety and traffic operations along this section of roadway.

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: Harvey Keepler
Larry E. Dent, District Engineer, Gainesville
Attention: Todd I. Long, P.E.
David Mulling, w/ attachment
Marta Rosen
Chuck Hasty, TMC
General Files

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

FORSYTH COUNTY

LOCATION

PROJECT NO.

P.I. #

3A. S.R. 306/Keith Bridge Rd at S.R. 53	STP-0000-00(812)	0000812
3B. S.R. 306/Keith Bridge Rd at Parks Rd/Shadburn Rd	STP-0000-00(812)	0000812
3C. S.R. 306/Keith Bridge Rd at Waldrip Rd	STP-0000-00(812)	0000812

Date of Report: October 10, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Plan (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or the STIP.

DATE

STATE TRANSPORTATION PLANNING ADMINISTRATOR

DATE

STATE TRANSPORTATION PROGRAMMING ENGINEER

DATE

STATE ROAD DESIGN ENGINEER

DATE

STATE ENVIRONMENTAL / LOCATION ENGINEER

10/13
DATE

Larry E. Hart
DISTRICT ENGINEER / GAINESVILLE

DATE

PROJECT REVIEW ENGINEER

10/24/2000
DATE

Marion H. Hester
STATE TRAFFIC OPERATIONS ENGINEER

