

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #631175 **OFFICE** Design Policy & Support
STP00-2812-00(009)
Haralson County **DATE** July 21, 2010
SR 8 Widening; Intersection & pedestrian
improvements between Florida Ave. and
Bryan St.

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED CONCEPT REPORT

Attached is the approved Revised Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Ron Wishon, State Project Review Engineer
Glenn Bowman, State Environmental Administrator
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Kathy Zahul, State Traffic Engineer
Angela Alexander, State Transportation Planning Administrator
Paul Liles, State Bridge Engineer
Bobby Hilliard, State Program Delivery Engineer
Angela Robinson, Financial Management Administrator
Jeff Baker, State Utilities Engineer
Kerry D. Bonner, District Utilities Engineer
DeWayne Comer, District Preconstruction Engineer/ Project Manager
Kent L. Sager, District Engineer
BOARD MEMBER - 11th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Project Number: STP00-2812-00(009)
County: HARALSON
P. I. Number: 631175
Federal Route Number: 78
State Route Number: 8

Project limit at Begin Site 2(M.P.13.81) lengthened to accommodate milling of existing pavement to permanently remove left turn lane. Vertical Grade changed to more closely match existing vertical alignment and Speed Design on Florida Avenue lowered to 25mph to match existing posted speed limit. At the request of the City of Bremen: Bike lanes removed by Variance and Sidewalk on east side of Florida Ave. removed by Variance.

Submitted for approval:

DATE 6/7/2010

W.H. Sey
District Engineer

DATE 6/7/2010

Curto, Com
Project Manager

Recommendation for approval:

DATE 7-11-2010

Glenn Bowman (MHB) *Recommendation on file*
State Environmental Administrator

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

DATE 6/14/2010

Angela J. Alexander
State Transportation Planning Administrator

REVISED PROJECT CONCEPT REPORT

Need and Purpose: Accident history reflects high accident rates at the intersections of US 78/SR 8 and Georgia Avenue and at US 78/SR8 and Florida Avenue. The Southern Railway line runs parallel to US78/SR8 and is no more than 50 ft. to the north of the roadway; the railroad track is elevated higher than the roadway, creating an undesirable situation at both intersections. Closing the intersection at Georgia Avenue and improving the at-grade crossing at Fern Street should improve the overall operation in this area. The Bremen High School is located at Florida Avenue and Laurel Street. Due to the heavy vehicular and pedestrian traffic, widening the roadway and adding sidewalk would reduce crash frequency and severity in this area. The City of Bremen has requested that the Department improve Tallapoosa Street by widening the roadway and providing sidewalk for pedestrian traffic.

Project location: This project is located on SR8/US78 in the City of Bremen in Haralson County. It has a proposed net length of 0.57 mile beginning at M.P. 12.78 and ending at M.P. 14.00. Also included are improvements on Florida Ave.(M.P.0.00-M.P.0.33), Tallapoosa St.(M.P.0.00-M.P.0.13), Fern St. (M.P.0.40-M.P.0.51)and Ayers St.(M.P.0.03-M.P.0.00 plus 65' of new construction to intersect SR8)

Description of the approved concept: The construction proposes to extend the three lane section on SR8 from near Florida Avenue to just west of Bryan Street, adding curb and gutter, sidewalk and a bicycle lane on the south side of the street. A 10' rural shoulder and bicycle lane will be added on the north side. This project is located on the Chattahoochee Trace bicycle route. Improvements to the other roadways include 24' to 36' of paving curb and gutter, and sidewalks.

On May 30, 2001, a revised concept was approved. It proposed closing the at-grade railroad crossing on Sewell St. and adding an at-grade railroad crossing on Ayers Street. It also proposed intersection improvements on Ayers Street at Atlanta Street and US78/SR8 to provide an improved vertical grade at the railroad crossing.

Traffic would be maintained during construction.

PDP Classification: Major _____ Minor X

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

Functional Classification: Rural Major Collector

U. S. Route Number(s): US78

State Route Number(s): SR8

Traffic (AADT) as shown in the approved concept:

Base Year: 5600(2003) **Design Year:** 7700(2023)

Updated traffic data (AADT):

Base Year: 6200(2009) **Design Year:** 9200(2029)

Approved Programmed/Schedule:

P.E: 92-03 **R/W:** FY 2006 **Construction:** FY 2011

VE Study Required Yes () No (X)

Benefit/Cost Ratio: 0.29

Is the project located in an Ozone Non-attainment area? Yes () No (X)

Is the project in a PM2.5 Non-Attainment area? Yes () No (X)

<p>Approved Features:</p> <ul style="list-style-type: none"> • <i>Project termini:</i> Project limit at Begin Site 2 would begin at M.P. 13.81. • <i>Design Speed:</i> Design Speed on Florida Avenue set at 35 mph. to match existing posted speed limit. • <i>Typical Section:</i> approved typical section includes bike lanes along US78/SR8 and sidewalks on Florida Ave. 	<p>Proposed Features:</p> <ul style="list-style-type: none"> • <i>Project termini:</i> Would add 139.06 feet to the length of project limit at / Begin Site 2, extending to M.P.13.66. • <i>Design Speed:</i> Speed Design on Florida Avenue would be lowered to 25mph to match current posted speed limit. • <i>Typical Section:</i> Would remove bike lanes along US78/SR8 and construct sidewalk only on west side of Florida Ave. ADA sidewalk standards would be met.
<p>Reason for Change:</p> <ul style="list-style-type: none"> • Accommodation of milling of existing pavement to permanently remove left turn lane. • To match existing posted speed limit and reduce right of way impact. • By request of City of Bremen and by approved Design Variance. (copy attached) 	

Updated Cost Estimate	
Construction	\$2,727,973.93
Fuel Adjustment	\$95,812.72
Right-of-Way	\$1,175,550.00 (unchanged)
Utilities (reimbursable)	\$748,000.00
Utility Contingencies	\$224,400.00 30%

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map
2. Cost Estimates
3. Copy of Approved Design Variance
4. Updated Traffic Data
5. Fuel adjustment worksheet

Exempt projects

Concur: 
Director of Engineering

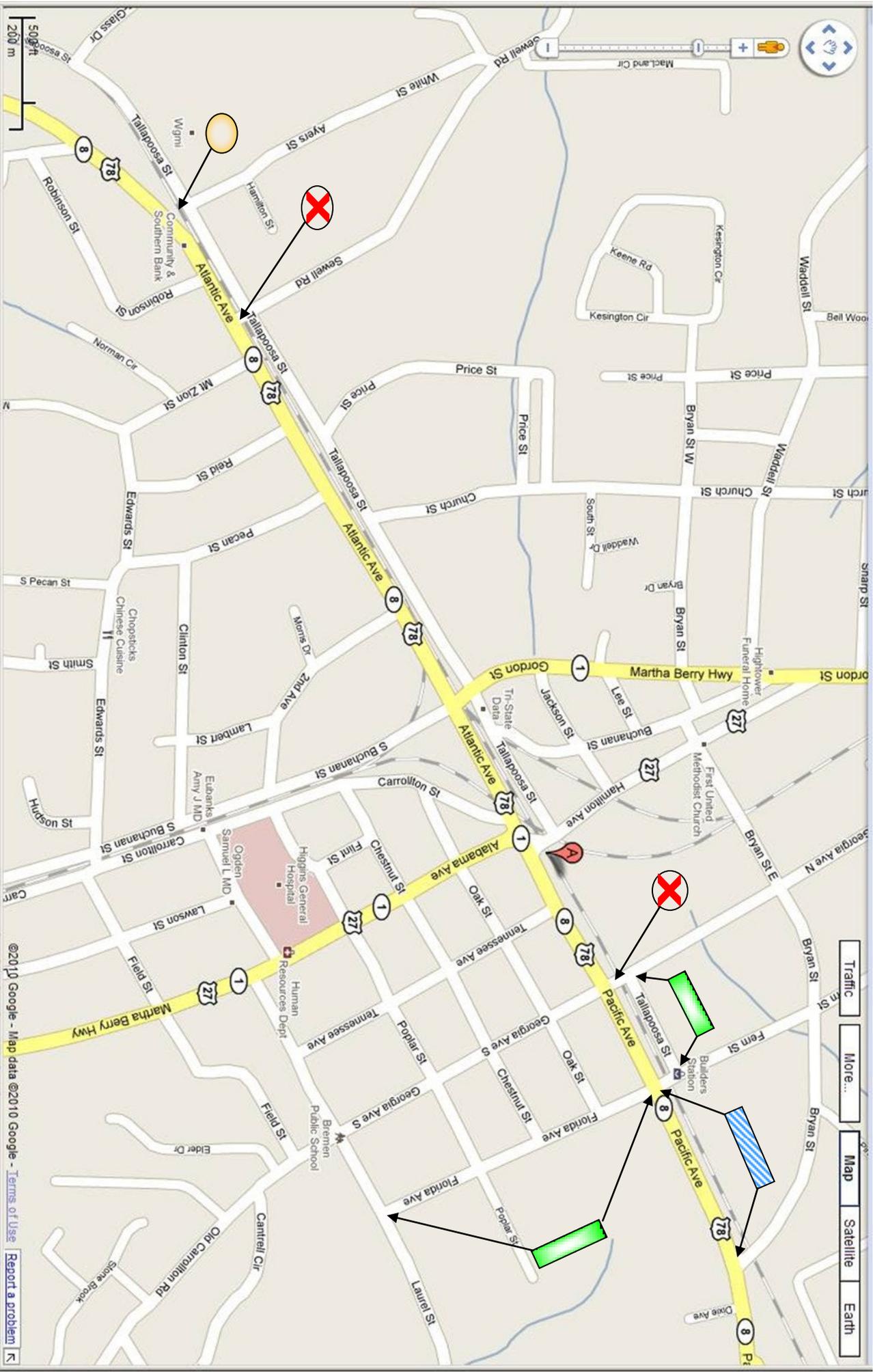
Approve: 
Chief Engineer

Date: 7/21/10

Widen to 2-12 foot lanes w/curb and gutter on: Florida Ave (SR8 to Laurel St.) & Tallapoosa St. (Georgia Ave. to Fern St.) NOTE: Sidewalk only on: Tallapoosa St.(south side), Florida Ave.-(west side)

Add a center "Left Turn Lane" on Pacific Ave. (Florida Ave. to Bryan St.). Add a left turn lane on SR8 at Ayers St.

Close the existing railroad crossing at Sewell Rd and Georgia Ave. Construct a new crossing at Ayers St.



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. STP00 2812-00(009), Haralson
SR 8 Widen; intersection improvements
P.I. No. 631175

OFFICE Cartersville
DATE 1/5/2010

FROM Curtis D. Comer, P.E., Assistant District Engineer

TO Brian K. Summers, P.E., Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Comer, DeWayne

MNGT LET DATE 6/18/2010

MNGT R/W DATE 6/15/2006

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$2,727,973.93

DATE 3/2/2009

RIGHT OF WAY \$1,950,000.00

DATE 7/18/2006

UTILITIES \$972,400.00

DATE 3/2/2009

REVISED COST ESTIMATES

CONSTRUCTION* \$3,092,941.10

RIGHT OF WAY \$1,175,550.00

UTILITIES** \$972,400.00

* Costs contain 5% Engineering and Inspection and 3% Construction Contingencies and Fuel and Liquid AC Adjustments.

** Costs contain 30% contingency.

REASON FOR COST INCREASE Updated Detail Estimate

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$1,944,760.92	(Base Estimate)
Engineering and Inspection:	\$97,238.15	(Base Estimate x 5 %)
Construction Contingency:	\$58,342.83	(Base Estimate x 3 %) (The Construction Contingency is based on the Project Improvement Type in TPro.)
Total Fuel Adjustment	\$ 95,812.72	(From attached worksheet)
Total Liquid AC Adjustment	\$ 193,483.27	(From attached worksheet)
Construction Total:	\$2,389,637.89	
Utility Cost Estimate:	\$748,000.00	
Utility Contingency:	\$224,400.00	30 %
Utility Total:	\$972,400.00	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Costs
Georgia Power	\$748,000.00
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Attachments

c: Genetha Rice - Singleton, Assistant Director of Preconstruction

Angela Whitworth, Financial Management Administrator

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: STP00-2812-00(009), Haralson County
P.I. 631175

OFFICE: Cartersville
DATE: June 18, 2008

FROM: ^{CDC} Curtis D. Comer, Assistant District Engineer
District PreConstruction Engineer

TO: Gerald Ross, P.E., Chief Engineer



SUBJECT: **REQUEST FOR DESIGN VARIANCE**

We hereby request a Design Variance to allow sidewalk to be built on only one side of Florida Avenue.

The following is pertinent information regarding this project:

Traffic Data: AADT (2009) = 12400 VPD AADT (2029) = 19840 VPD
T = 6%
24 HR T = 7%
Posted Speed = 35/45
Design Speed = 35/45

Begin Project M.P. 12.78
End Project M.P. 14.00
Beginning Design Feature M.P. 12.78
Ending Design Feature M.P. 14.00
Estimated length of project: 0.49 NET/ 1.23 GROSS
Width of existing pavement: SR 8- 24' to 36'. Side roads- 20'to 22'.
Width of existing shoulders: SR 8- 2'to 4'. Side roads- 0'to 4'.
Proposed width of pavement: SR 8- 24'to 48'. Side roads- 24' to 36'.
Proposed width of shoulder: SR 8- 40'to 48'. Side roads- 5' to 8.5'.

The need of project STP00-2812-00(009) is to improve safety at currently high-accident intersections by closing two at-grade RR crossings, adding an at-grade crossing at a location with improved sight distance, add turning lanes, bike lanes and shoulders, and sidewalks to provide overall improvement for operation of vehicular, pedestrian and bicycle traffic.

The intent of project STP00-2812-00(009) is to close RR crossings at Georgia Avenue and Sewell Street and add a new at-grade crossing at Ayers Street, to extend the three lane section on SR 8 from near Florida Avenue to just west of Bryan Street, adding curb and gutter, sidewalk and a bicycle lane on the south side of the street. A bicycle shoulder will be added to the north side of SR 8. Side road improvements will include 24' to 36' of paving, curb and gutter and sidewalks.

As stated, a Design Variance is being requested, and will be addressed as follows:

The design variance is requested to allow sidewalk to be built only on the west side of Florida Avenue. The city of Bremen requests this change due to future maintenance costs and responsibilities and believes the community would be well-served with the installation of sidewalk on one side of the street only.

Improvement of safety for the walking public would be met with the installation of sidewalk on one side of this road. While the GDOT "Pedestrian & Streetscape Guide"(table 37, pg 93) recommends sidewalk on both sides of a Local Street, one side installation meets FHWA guidelines which, in table 4-2 (Chapter 4.1.2.3 Pedestrian zone), state that on a Local Street with 2.5 - 10 dwelling units per acre sidewalk on both sides is preferred but only one side is required.

Due to the minimal adverse affects on this street with low-density dwellings we recommend approval of this design variance to install sidewalk on the west side of Florida Avenue only.

Plan sheets, which show the area in question, Typical Sections, a letter-size location sketch, and a copy of the letter from the city of Bremen are attached to this letter.

If additional information is needed, contact Joyce Fouts at (770)387-3626.

attachment

cc: file

RECOMMENDED: Curtis D. Comer DATE 6-18-08
Curtis D. Comer, Assistant District Engineer, District PreConstruction Engineer

APPROVED: Gerald Ross DATE 6/26/08
Gerald Ross, Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: STP00-2812-00(009), Haralson County
P.I. 631175

OFFICE: Cartersville
DATE: June 30, 2008

FROM: *CDC*
Curtis D. Comer, Assistant District Engineer
District PreConstruction Engineer

TO: Gerald Ross, P.E., Chief Engineer

SUBJECT: **REQUEST FOR DESIGN VARIANCE**

We hereby request a Design Variance to allow the omission of Bike Lanes along the south side of US 78/
SR 8 from Georgia Ave. to Bryan St.

The following is pertinent information regarding this project:

Traffic Data: AADT (2009) = 12400 VPD AADT (2029) = 19840 VPD
T = 6%
24 HR T = 7%
Posted Speed = 45
Design Speed = 45

Begin Project M.P. 12.78
End Project M.P. 14.00
Beginning Design Feature M.P. 12.78
Ending Design Feature M.P. 14.00
Estimated length of project: 0.49 NET/ 1.23 GROSS
Width of existing pavement: SR 8- 24' to 36'. Side roads- 20'to 22'.
Width of existing shoulders: SR 8- 2'to 4'. Side roads- 0'to 4'.
Proposed width of pavement: SR 8- 24'to 48'. Side roads- 24' to 36'.
Proposed width of shoulder: SR 8- 10'. Side roads- 5' to 10'.

The need of project STP00-2812-00(009) is to improve safety at currently high-accident intersections by closing two at-grade RR crossings, adding an at-grade crossing at a location with improved sight distance, add turning lanes, bike lanes and shoulders, and sidewalks to provide overall improvement for operation of vehicular, pedestrian and bicycle traffic.

The intent of project STP00-2812-00(009) is to close RR crossings at Georgia Avenue and Sewell Street and add a new at-grade crossing at Ayers Street, to extend the three lane section on SR 8 from near Florida Avenue to just west of Bryan Street, adding curb and gutter, sidewalk and a bicycle lane on the

south side of the street. A bicycle shoulder will be added to the north side of SR 8. Side road improvements will include 24' to 36' of paving, curb and gutter and sidewalks.

As stated, a Design Variance is being requested, and will be addressed as follows:

A design variance is requested to allow omission of the Bicycle Lane on the south side of US 78/ SR 8 and the omission of the Bicycle Shoulder on the north side of US 78/ SR 8 both from Georgia Ave. to Bryan St.

Because of the right of way that would be necessary in this already very constricted area the City of Bremen objects to the placement of said Lane and the perceived disruption the Lane would incur on the residents and businesses.

The roadway in question is on the Chattahoochee Trace Bike Route but since there is little bicycle traffic in the short distance (0.3 mi) the city objects to and since there is currently no bicycle accommodation existing there will be minimal adverse affects in not meeting GDOT Bicycle Lane requirements.

We therefore recommend approval of this design variance to omit the Bicycle Lane from Georgia Ave. to Bryan St. on US 78/ SR 8.

Plan sheets, which show the area in question, Typical Sections, a letter-size location sketch, and a copy of the letter from the City of Bremen are attached to this letter.

If additional information is needed, contact Joyce Fouts at (770)387-3626.

attachment

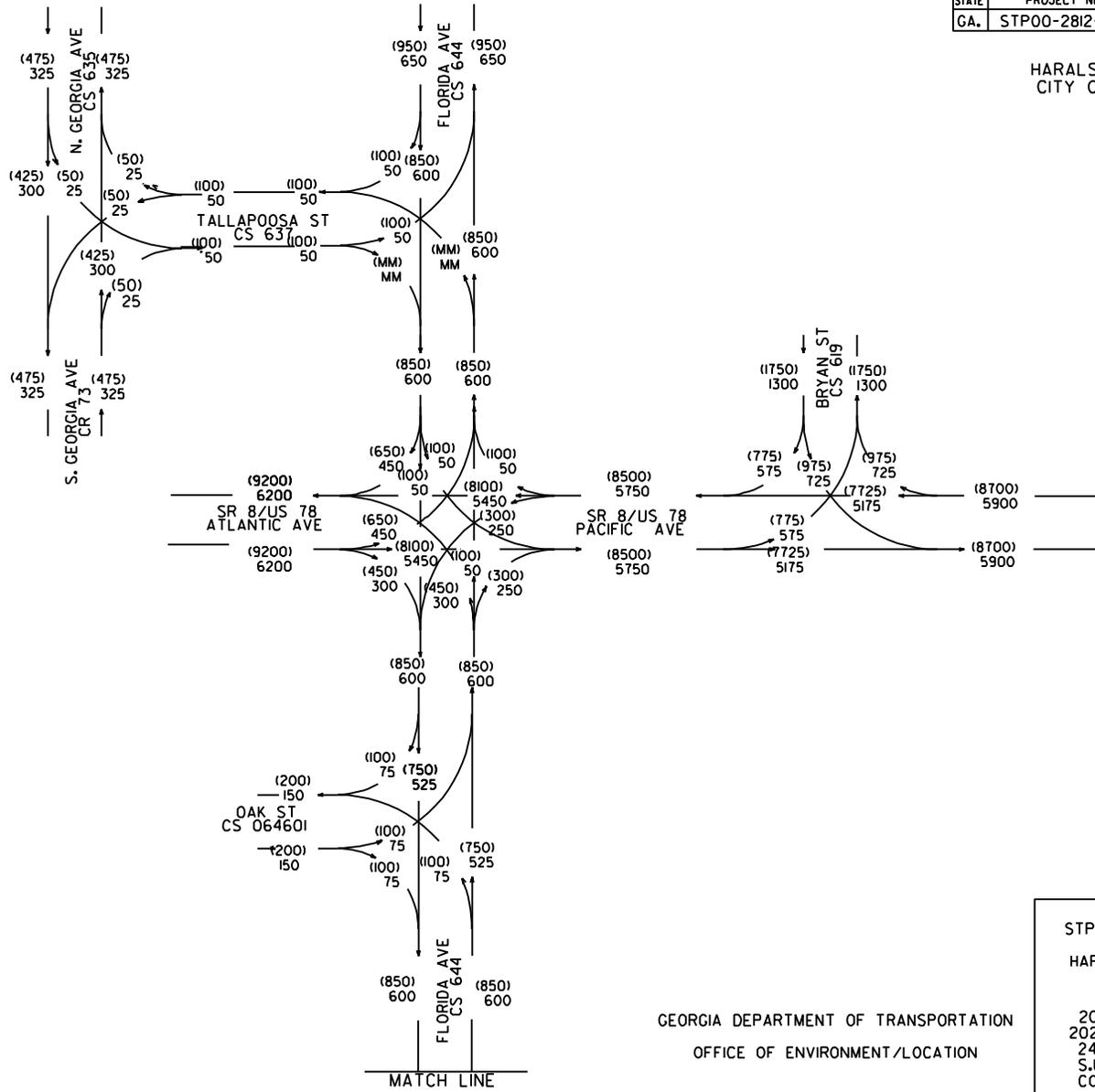
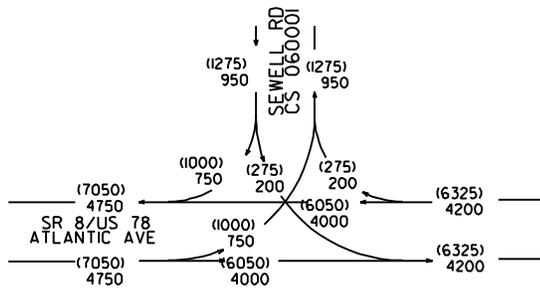
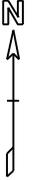
cc: file

RECOMMENDED: Curtis D. Comer DATE 7-1-08
Curtis D. Comer, Assistant District Engineer, District PreConstruction Engineer

APPROVED: Gerald Ross DATE 7/1/08
Gerald Ross, Chief Engineer

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP00-2812-00(009)	10	

HARALSON COUNTY
CITY OF BREMEN



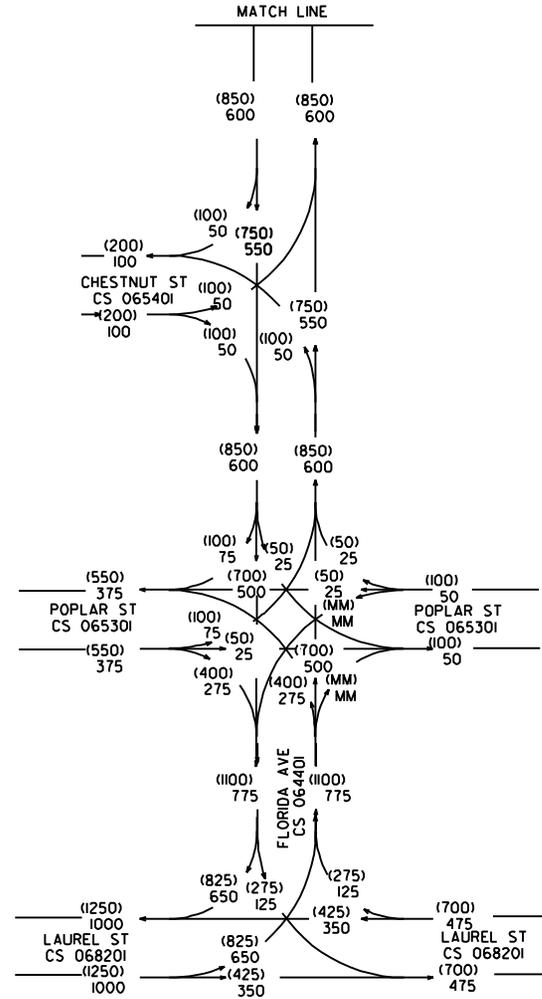
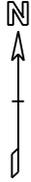
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

STP00-2812-00(009)
P.I. # 631175
HARALSON COUNTY

SR 8/US 78
2009 ADT = 000
2029 ADT = (000)
24 HOUR T = 7%
S.U. = 6%
COMB. = 1%
RFN 04/05

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP00-2812-00(009)	II	

HARALSON COUNTY
CITY OF BREMEN



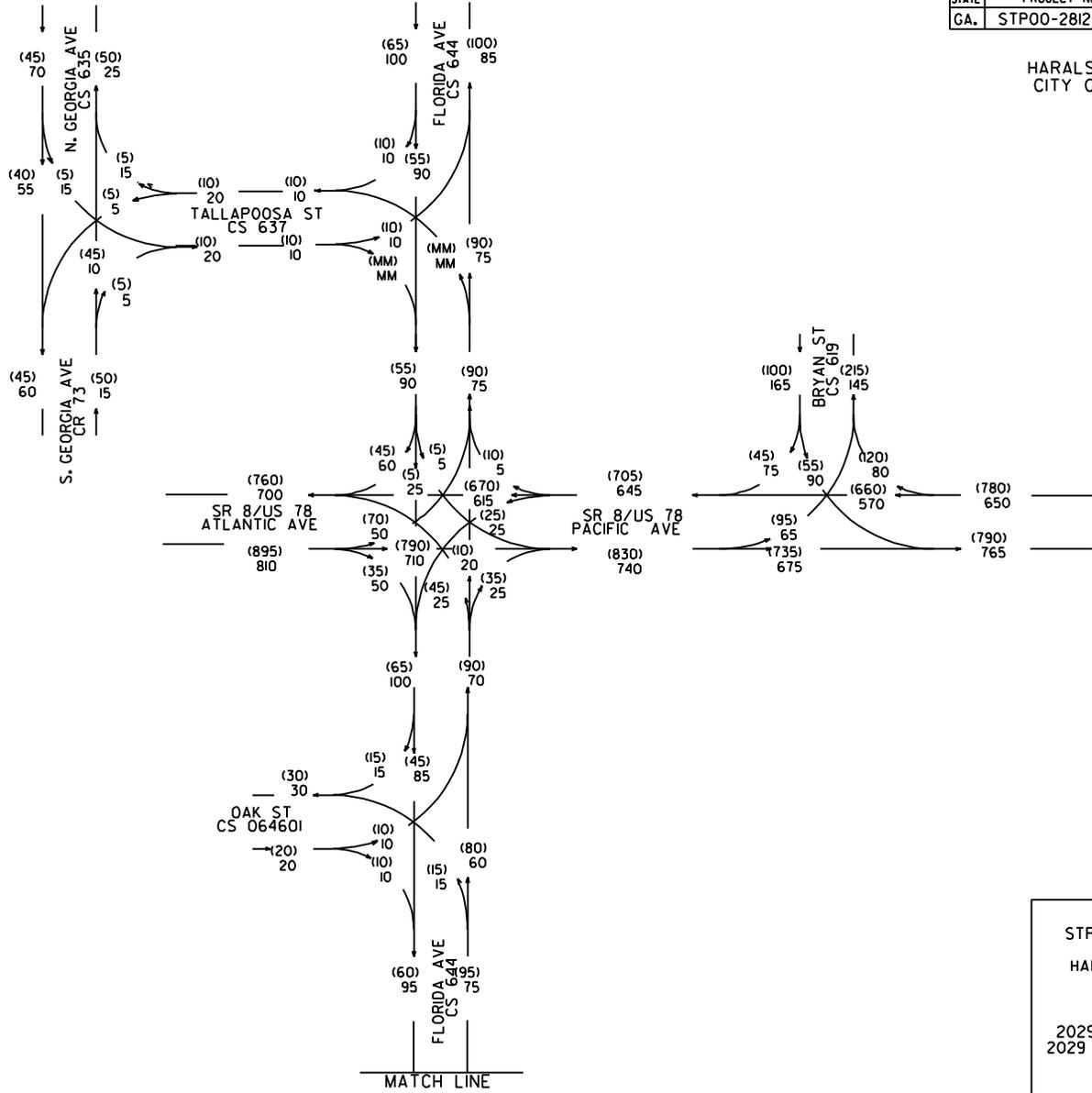
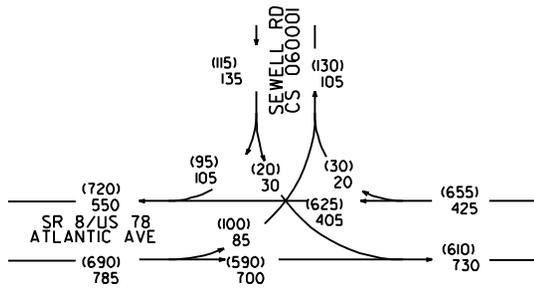
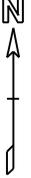
STP00-2812-00(009)
P.I. # 631175
HARALSON COUNTY

SR 8/US 78
2009 ADT = 000
2029 ADT = 1000
24 HOUR T = 7%
S.U. = 6% RFN
COMB. = 1% 04/05

SHEET 1 OF 2

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP00-2812-00(009)	12	

HARALSON COUNTY
CITY OF BREMEN



STP00-2812-00(009)
P.I. # 631175
HARALSON COUNTY
SR 8/US 78
2029 AM DHV = 000
2029 PM DHV = (000)
T = 6% RFN
04/05

SHEET 3 OF 4

PROJ. NO.

STP00-2812-00(009)

P.I. NO.

631175

DATE

12/10/2009

INDEX (TYPE)

REG. UNLEADED

DATE

INDEX

Dec-09

\$ 2.508

DIESEL

\$ 2.707

LIQUID AC

\$ 418.00

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)-0.05]xTMTxAPL

Asphalt

Price Adjustment (PA)			\$	190,357.20	\$	190,357.20
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%	\$	940.50		
Monthly Asphalt Cement Price month project let (APL)			\$	418.00		
Total Monthly Tonnage of asphalt cement (TMT)				379.5		

ASPHALT	Tons	%AC	AC ton
Leveling	192	5.0%	9.6
12.5 OGFC		5.0%	0
12.5 mm	1128	5.0%	56.4
9.5 mm SP		5.0%	0
25 mm SP	4720	5.0%	236
19 mm SP	1550	5.0%	77.5
	7590		379.5

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	3,126.07	\$	3,126.07
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%	\$	940.50		
Monthly Asphalt Cement Price month project let (APL)			\$	418.00		
Total Monthly Tonnage of asphalt cement (TMT)				6.232191438		

Bitum Tack

Gals	gals/ton	tons
1451	232.8234	6.23219144

TOTAL LIQUID AC ADJUSTMENT \$ **193,483.27**

PROJ. NO.

STP00-2812-00(009)

P.I. NO.

631175

DATE

12/10/2009

FUEL ADJUSTMENTS - ROADWAY

FPA = (((FPM-FPL)/FPL)-.10]xQxF)FPL

GRADED AGGREGATE BASE

			REGULAR UNLEADED		DIESEL	TOTALS
Fuel Price Adjustment (FPA)			\$ 5,098.80	\$	6,649.91	\$ 11,748.71
Monthly Fuel Price for month work was accomplished (FPM)	Max. Cap	125%	\$ 5.643	\$	6.091	
Monthly Fuel Price for month when project was let (FPL)			\$ 2.508	\$	2.707	
Quantity Placed (Q)		7366				
Fuel Usage Factor (F)			0.24		0.29	

ASPHALT

			REGULAR UNLEADED		DIESEL	TOTALS
Fuel Price Adjustment (FPA)			\$ 15,542.67	\$	68,521.34	\$ 84,064.01
Monthly Fuel Price for month work was accomplished (FPM)	Max. Cap	125%	\$ 5.643	\$	6.091	
Monthly Fuel Price for month when project was let (FPL)			\$ 2.508	\$	2.707	
Quantity Placed (Q)		7590				
Fuel Usage Factor (F)			0.71		2.90	

EARTHWORK

			REGULAR UNLEADED		DIESEL	TOTALS
Fuel Price Adjustment (FPA)			\$ -	\$	-	\$ -
Monthly Fuel Price for month work was accomplished (FPM)	Max. Cap	125%	\$ 5.643	\$	6.091	
Monthly Fuel Price for month when project was let (FPL)			\$ 2.508	\$	2.707	
Quantity Placed (Q)	Cy					
Fuel Usage Factor (F)			0.15		0.29	

TOTAL ROADWAY FUEL ADJUSTMENTS

\$ 95,812.72

PROJ. NO.

STP00-2812-00(009)

P.I. NO.

631175

DATE

12/10/2009

FUEL ADJUSTMENTS - BRIDGE

FPA = (((FPM-FPL)/FPL)-.10)x(QxF/1000))FPL

		REGULAR UNLEADED	DIESEL	TOTALS
Fuel Price Adjustment (FPA)		\$ -	\$ -	\$ -
Monthly Fuel Price for month work was accomplished (FPM)	125%	\$ 5.643	\$ 6.091	
Monthly Fuel Price for month when project was let (FPL)		\$ 2.508	\$ 2.707	
Quantity Placed (Q)	\$ -			
Fuel Usage Factor (F)		1.5	8	

Section	Cost
211 Bridge Excavation	
500 Superstr Conc Cl AA	
500 Class A Concrete	
500 Class AA Concrete	
500 Concrete Handrail	
500 Concrete Barrier	
501 Structural Steel	
507 Prestressed Conc Beams	
511 Super Reinforcement	
511 Bar Reinf Steel	
520 Piling	
520 Piling	
524 Drilled Caisson	
547 Pile Encasement	
547 Pile Encasement	
	\$ -

Assumes 80% of the estimated bridge cost will qualify for fuel adjustments

EST. BRIDGE COST	% COST WITH ADJ.	COST
	80%	\$ -

TOTAL BRIDGE FUEL ADJUSTMENTS \$ -