

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE:** STP-0001-00(913), Berrien County  
P.I. No.: 0001913  
SR 11/US 129 at CR 37/Hazel Avenue

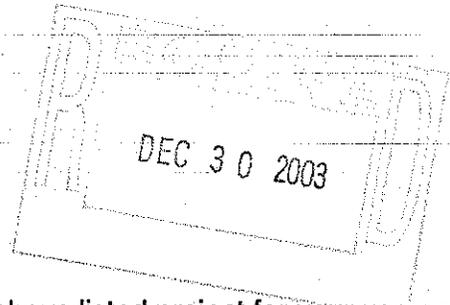
**OFFICE:** Traffic Safety and Design

**DATE:** December 29, 2003

*Phillip M. Allen* (B)  
**FROM:** Phillip M. Allen, State Traffic Safety & Design Engineer

**TO:** David Crim, District Engineer – Tifton  
ATTN: Joe W. Sheffield

**SUBJECT: APPROVED CONCEPT REPORT**



Attached is a copy of the approved concept report on the above listed project for your use and further handling.

This project consists of relocating the intersection of SR 76 with SR 11/US 129 approximately 770 feet south of the existing location to provide for a 90 degree intersection. State Route 76 Connector will be obliterated and grassed. County Road 37/Hazel Avenue will be shifted approximately 55 feet south and realigned to intersect with the SR 76 relocation. In addition to the realignment of SR 76 Conn. and CR 37/Hazel Avenue, a stop and go traffic signal, with pedestrian facilities will be installed.

The Office of Traffic Safety and Design has assigned Kathy Bailey as Project Manager. The preliminary engineering, including *environmental documentation*, will be handled under our consultant design contract. An LGPA has been sent out to Berrien County for relocation of all public utilities for this project

Should you have any questions, please contact Kathy Bailey at 404-635-8134 or Kevin Stefanik at 404-635-8125.

PMA:KMS

**Attachments**

cc: Paul Mullins, letter only  
Tom Turner  
David Mulling  
Meg Pirkle  
Percy Middlebrooks  
Harvey Keepler  
ATTN: Gail D'Avino  
Brent Thomas  
General Files

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT**

**BERRIEN COUNTY  
CITY OF NASHVILLE  
STP-0001-00(913)**

FEDERAL ROUTE NO: 129

STATE ROUTE NO: 11 & 76

GADOT P.I. NO: 0001913

**SEE ATTACHED  
LOCATION SKETCH**

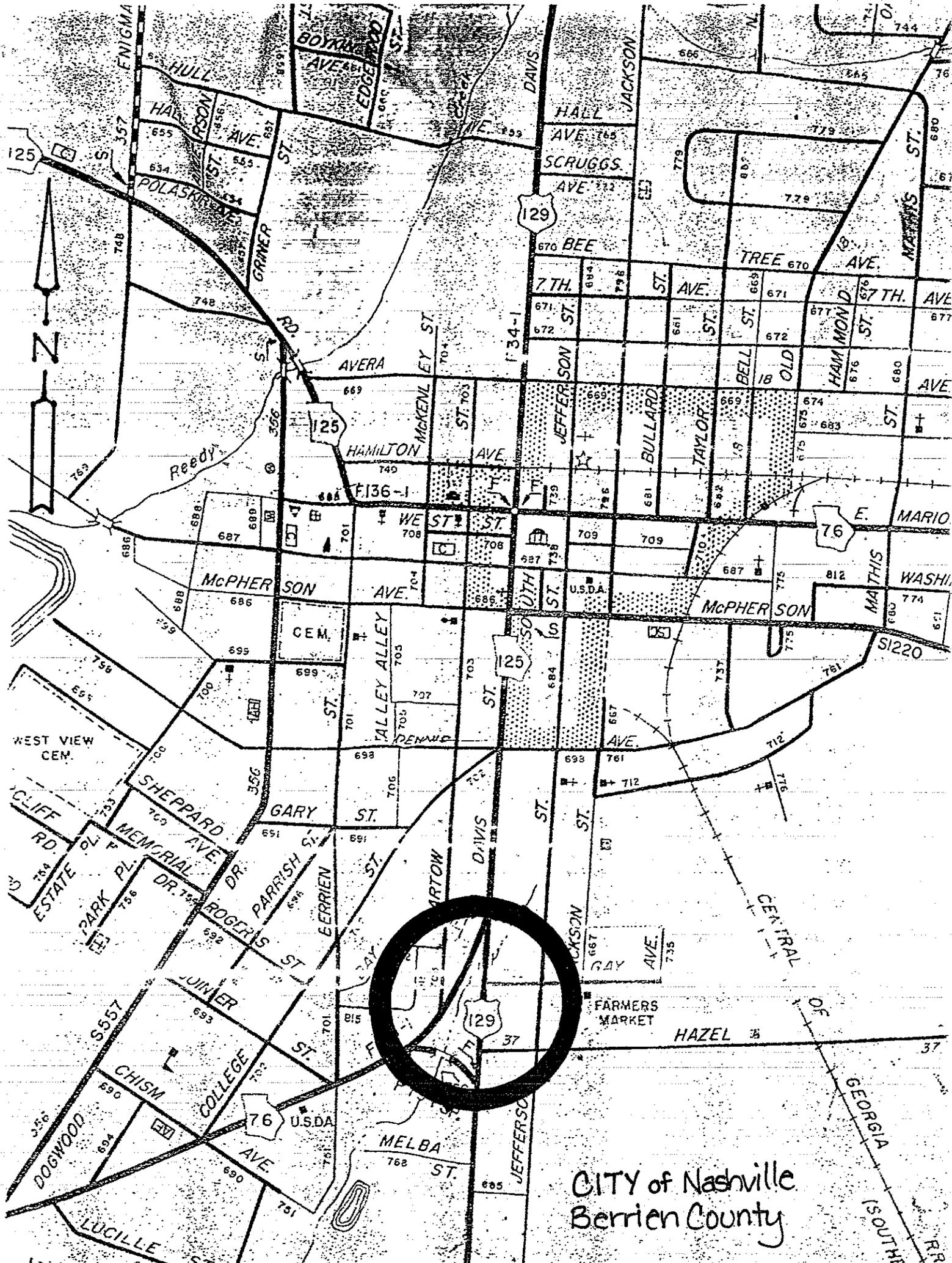
Date of Report: September 4, 2003

RECOMMENDED: 9/16/03 Phillip M. Allen  
DATE STATE TRAFFIC SAFETY & DESIGN ENGINEER

RECOMMENDED: 10/02/03 [Signature]  
DATE DISTRICT ENGINEER

RECOMMENDED: 10/8/03 [Signature]  
DATE CHIEF ENGINEER

APPROVED: 10-10-03 [Signature]  
DATE COMMISSIONER



CITY of Nashville  
Berrien County

**PROJECT CONCEPT REPORT**

**P.I. No.:** 0001913

**Project No.:** STP-0001-00(913) City of Nashville, Berrien County

**Route No.:** SR 11/US 129/ Davis St  
SR 76/Adel Hwy  
SR 76 Connector  
CR 37/ Hazel Avenue

**Location:** The intersection of SR 76 with SR 11/US 129 is located approximately one half mile east of the City Limits of Nashville and approximately 12 miles south of the City Limits of Alapaha in Berrien County.

**Description:** The intersection of SR 76 and SR 11/US 129 will be relocated approximately 770 feet south of its existing location and realigned to provide a 90-degree intersection. State Route 76 Connector will be obliterated and grassed. County Road 37/Hazel Avenue will be shifted approximately 55 feet south and realigned to intersect with the SR 76 relocation. In addition to the realignment of SR 76 Connector and CR 37/Hazel Avenue, a stop and go traffic signal, with pedestrian considerations, will be installed.

**Traffic – Current ADT:**

SR 11/ US 129.....	11,000 ADT
SR 76.....	6,200 ADT
SR 76 Conn.....	2,500 ADT
Hazel Ave/CR 37.....	480 ADT

**Existing Typical:** SR 11/US 129: Two 12-foot travel lanes, one in each direction, with curb and gutter and grassed shoulders  
SR 76: Two 12-foot travel lanes one in each direction, with one-foot paved shoulder  
SR 76 Conn.: Two 12-foot travel lanes in each direction, with one-foot paved shoulder  
Hazel Ave/CR 37: Two 11-foot travel lanes in each direction, with one-foot paved shoulder

**Existing Right of Way:**

SR 11/US 129:.....	100'(estimated)
SR 76:.....	100'(estimated)
SR 76 Conn.:.....	100'(estimated)
Hazel Ave/CR 37: .....	60'(estimated)

**Existing Traffic Control:** SR 11/US 129 is a through movement. SR 76 is controlled by a stop sign with SR 11/US 129. SR 76 Conn. is controlled with a yield sign that only allows for southbound movement onto SR 11/US 129. CR 37/Hazel Avenue is controlled by a stop sign and stop bar.

**Existing Major Structures:** There is a triple 3' x 6' culvert perpendicular to SR 11/US 129 immediately to the north of CS 735/Day Avenue. Also, there is an existing triple 3' x 6' culvert perpendicular to and to the north of SR 76 Connector.

**Statement of Need & Purpose:** The purpose of this project is to improve the safety and operation of the intersection of SR 76 with SR 11/US 129 in the City of Nashville. According to the accident history provided by the City of Nashville, fourteen accidents occurred from the year 1999 to 2001. Ten of the accidents were angle intersecting, and four were rear-end collisions. The existing skewed angle at the intersections of SR 76 and SR 76 Connector with SR 11 limits sight distance. State Route 76 Connector will be closed and SR 76 shifted south approximately 770 feet and will be realigned to form a 90-degree angle with SR 11/US 129. County Road 37/Hazel Avenue will be shifted south approximately 55 feet from its existing location to align with the SR 76 realignment and intersect SR 11/US 129 at 90 degrees. In addition to the realignments of SR 76 and CR/ Hazel Avenue with SR 11/US 129, a stop and go traffic signal will be installed.

**Bicycle & Pedestrian Considerations:** Currently there are no pedestrian heads or crosswalks at these intersections. However, the amount of retail businesses and restaurants in the vicinity of the subject intersections may generate additional pedestrian traffic in the future. For this reason, pedestrian crosswalks, concrete sidewalks, and pedestrian signal heads will be included in the improvements.

**Length:** 0.65 miles

<b>Termini:</b>	<b>- SR 76</b>	<b>SR11/US 129</b>	<b>Hazel Ave</b>	<b>SR 76 Connector</b>
<b>From M.P.:</b>	0.00	11.39	6.36	0.00
<b>To M.P.:</b>	0.17	11.66	6.44	0.12

**PDP Class:** Minor Existing

<b>Functional Class:</b>	SR 11/US 129.....	Minor Arterial Road
	SR 76.....	Minor Arterial Road
	SR 76 Conn.....	Minor Arterial Road
	CR 37/ Hazel Avenue.....	Local Road

**Max Degree of Curve:** +/- 14.5 Degrees      **Max Grades:** +/- 1 %

<b><u>Design Speed:</u></b>	SR 11/US 129.....	35 mph
	SR 76.....	35 mph
	SR 76 Conn: .....	35 mph
	CR 37/Hazel Ave.....	35 mph

**Proposed Typical Section:**

SR 11/US 129: Two 12-foot travel lanes in each direction, with curb and gutter and sidewalk and turn lanes

SR 76: Two 12-foot travel lanes, one in each direction, with one 12-foot turn lane, curb and gutter and sidewalk

SR 76 Conn.: Removed

CR 37/Hazel Avenue: Two 12-foot travel lanes, one in each direction, with one 12-foot turn lane, curb and gutter and sidewalk

**Proposed Major Structures:** There is a culvert extension at two locations. The existing culvert that is located north of CS 735/Day Avenue and perpendicular to SR 11/US 129 will be extended to the right and left. The other extension will take place at the existing culvert that is perpendicular and to the north of SR 76 Connector. The culvert will be extended south under the SR 76 realignment.

**Type Access:** By Permit.

**Traffic Control During Construction:** Existing operation shall be maintained during construction.

**Right-of-Way Requirement:** The Georgia Department of Transportation shall be responsible for the acquisition of all required right-of-way for this project.

**Utilities:** Berrien County shall be responsible for all public reimbursable utility adjustments.

**Estimated Cost:**

<u>Item</u>	<u>Total Amount</u>	
	<u>Federal/State</u>	<u>Local Government</u>
R/W -----	457,250	
Utilities -----		14,070
Estimated LGPA Total -----	\$ 471,320	
Construction -----	\$ 751,531	
Traffic Signal -----	\$ 90,000	
Railroad Equipment -----	\$ 0	
E & C 10% -----	\$ 84,153	
Total Construction -----	\$ 925,684	

**Permits Required:** Traffic Signal

**Level of Environmental Analysis:** A Programmatic Categorical Exclusion is anticipated

**Level of Public Involvement:** None.

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

**Design Variances Required:** None.

**Alternatives Considered:** None

**Comments:** None

## Nov-02 Itemized Cost Estimate

Berrien County  
 City of Nashville  
 SR 76 at SR 11/US 80

Item No.	Item Description	Unit	Quantity	Unit Price	Total
<b>New Paving</b>					
402-3113	1.5-inch "E"	ton	949	\$ 39.73	\$ 37,703.77
402-3190	2-inch "B"	ton	1288.1	\$ 36.71	\$ 47,286.15
402-3121	4-inch "ACB"	ton	2576.3	\$ 34.48	\$ 88,830.82
310-1101	8-inch "GAB"	ton	5015.7	\$ 14.24	\$ 71,423.57
413-1000	Tack Coat	gallon	114	\$ 0.86	\$ 98.04
<b>Overlay</b>					
402-3113	1.5-inch "E"	ton	446.7	\$ 39.73	\$ 17,747.39
402-3190	2-inch "B"	ton	606.3	\$ 36.71	\$ 22,257.27
432-5010	Mill Asph. Conc. Pvmt	SY	5110.33	\$ 1.70	\$ 8,687.56
413-1000	Tack Coat	gallon	53.7	\$ 0.86	\$ 46.18
402-1812	Leveling	ton	223	\$ 35.32	\$ 7,876.36
<b>5-foot Concrete Sidewalk</b>					
441-0104	4-inch	SY	2638	\$ 22.43	\$ 59,170.34
<b>Concrete Curb &amp; Gutter</b>					
441-6022	6"x30"	LF	4379	\$ 10.24	\$ 44,840.96
<b>Curb Cut</b>					
441-7010	Wheelchair Ramp	EA	22	\$ 819.01	\$ 18,018.22
<b>Guardrail</b>					
641-1200	W-Beam	LF	424	\$ 9.53	\$ 4,040.72
641-5012	Type 12 Anchors	EA	6	\$ 1,281.21	\$ 7,687.26
202-1000	Clearing & Grubbing	AC	1	\$ 1,500.00	\$ 1,500.00
<b>Grassing</b>					
700-7000	Agri. Lime	ton	5.31	\$ 48.61	\$ 258.12
700-8000	Fert. Mix	ton	1.59	\$ 241.56	\$ 384.08
700-8100	Fert. Nit.	LB	88.65	\$ 1.27	\$ 112.59
700-6100	Add'l Grass	LB	177	\$ 4.35	\$ 769.95
<b>Erosion Control</b>					
171-0010	Type A	LF	4625	\$ 1.92	\$ 8,880.00
171-0030	Type C	LF	1558	\$ 2.87	\$ 4,471.46
<b>Traffic Signal</b>					
				LS	\$ 90,000.00
634-1200	Right of Markers	EA	16	\$ 75.03	\$ 1,200.48
<b>Drainage</b>					
				LS	\$ 75,000.00

**Traffic Control** LS \$ 55,000.00

**Signing** LS \$ 10,000.00

**Marking**

653-0120	Arrow Type 2	EA	18	\$	63.47	\$	1,142.46
653-0130	Arrow Type 3	EA	3	\$	95.15	\$	285.45
653-1501	Solid 5" White	LF	7000	\$	0.25	\$	1,750.00
653-1502	Solid 5" Yellow	LF	2400	\$	0.23	\$	552.00
653-1704	Solid 24" White	LF	100	\$	4.06	\$	406.00
653-3501	Skip 5" White	LF	1000	\$	0.17	\$	170.00
653-3502	Skip 5" Yellow	LF	1100	\$	0.19	\$	209.00
653-6006	Traffic stripe yellow	SY	850	\$	2.13	\$	1,810.50
653-6004	Traffic stripe white	SY	300	\$	2.20	\$	660.00
654-1001	RPM Type 1 White	EA	109	\$	4.00	\$	436.00

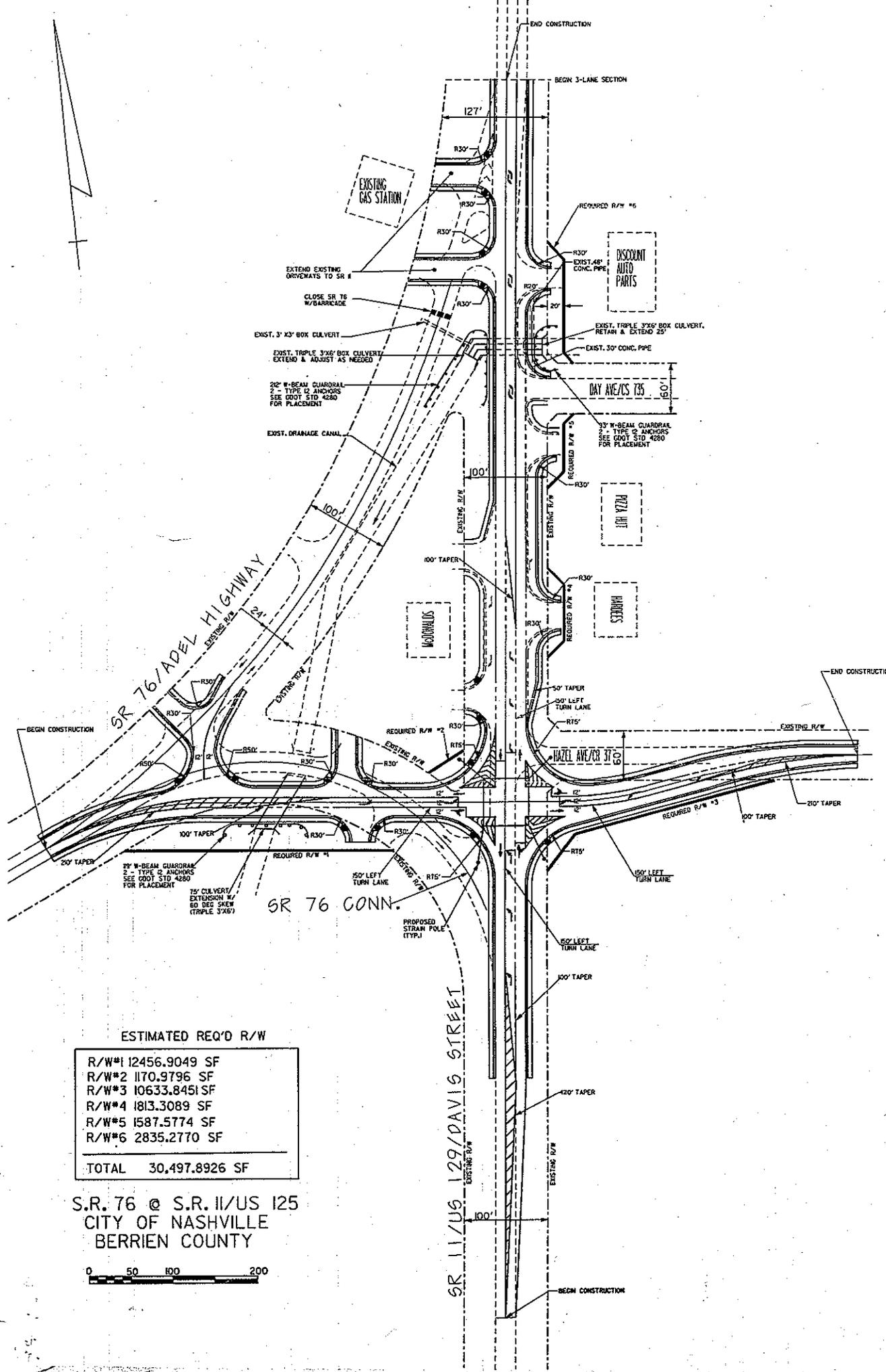
**Earthwork**

205-0001	Cut	CY	9,500	\$	1.99	\$	18,905.00
206-0001	Fill	CY	2,500	\$	4.40	\$	11,000.00

**Misc.**

621-4080	Barriers for Road Closure	LF	24	\$	46.98	\$	1,127.52
500-3900	Culvert Expanson	CY	177	\$	676.76	\$	119,786.52

**GRAND TOTAL \$ 841,531.75**



ESTIMATED REQ'D R/W

R/W#1	12456.9049 SF
R/W#2	1170.9796 SF
R/W#3	10633.8451 SF
R/W#4	1813.3089 SF
R/W#5	1587.5774 SF
R/W#6	2835.2770 SF
<b>TOTAL</b>	<b>30,497.8926 SF</b>

S.R. 76 @ S.R. 11/US 125  
 CITY OF NASHVILLE  
 BERRIEN COUNTY

