# TRANSPORTATION PLANNING REPORT

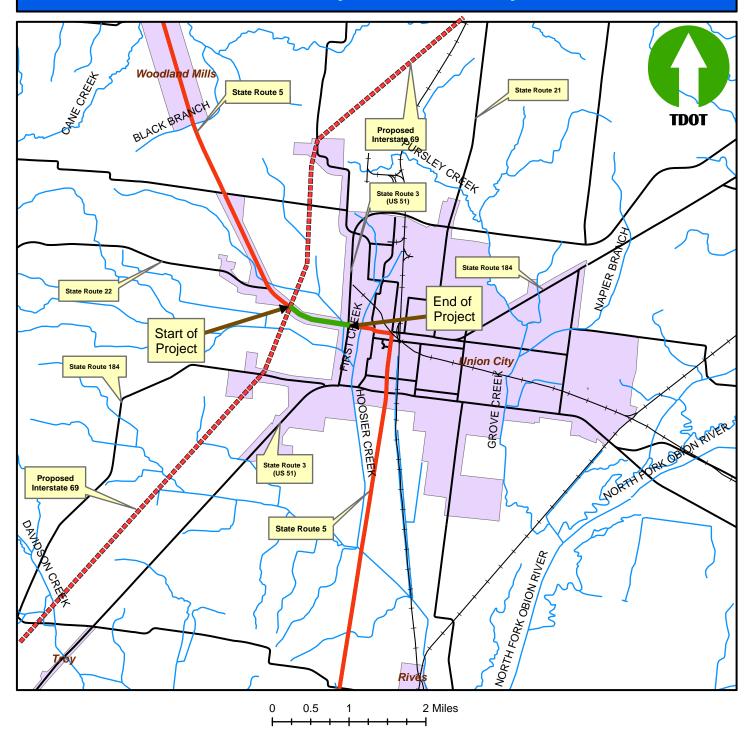
STATE ROUTE 5
FROM STATE ROUTE 3 (US 51) to PROPOSED INTERSTATE 69
OBION COUNTY
PIN# 109006.00



# PREPARED BY TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION

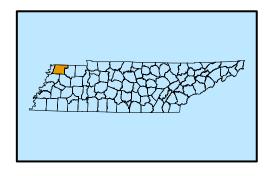
Approved by:	Signature	DATE
CHIEF OF ENVIRONMENT AND PLANNING	Ellole	9/16/07
TRANSPORTATION DIRECTOR PROJECT PLANNING DIVISION	Sture Ston	9-26-07
TRANSPORTATION MANAGER 2 PROJECT PLANNING DIVISION	Bill Hart	9/24/07

# **Union City, Obion County**

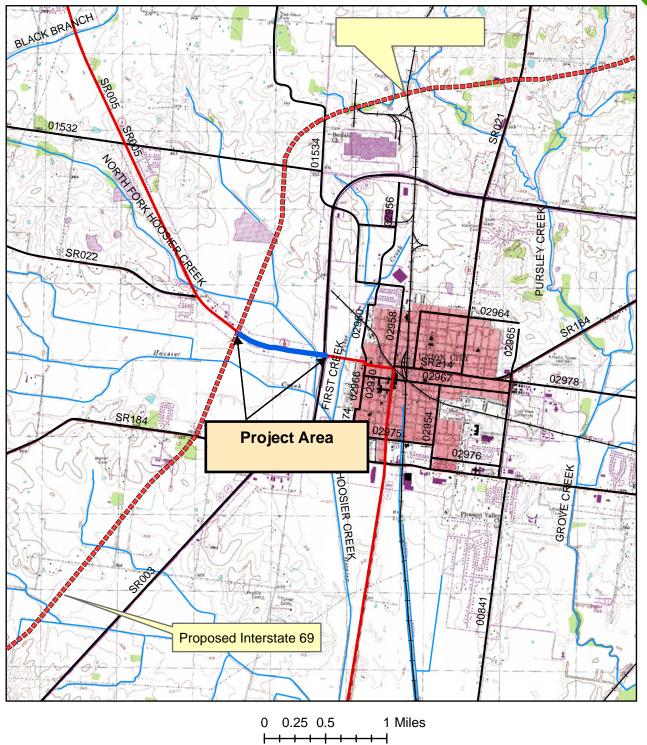




Project Area State Route 5 Begin: Proposed Interstate 69 End: State Route 3 (US 51) Approximately 0.86 Miles







PROJECT AREA TOPOGRAPHY
STATE ROUTE 5
BEGIN: PROPOSED INTERSTE 69
END: STATE ROUTE 3 (US 51)
UNION CITY, OBION COUNTY

#### **EXISTING CONDITIONS**

State Route 5 in Obion County begins at the Gibson County line and continues to the Tennessee-Kentucky state line, a total distance of approximately 23.36 miles. The proposed project length is approximately 0.86± miles beginning at design plans for proposed Interstate 69 (near Graham Drive) and extends to approximately 400' East of the State Route 3/State Route 5 intersection. The proposed project section of State Route 5 in Obion County is functionally classified as an Urban Principal Arterial on the State Highway System. The projected base year (2012) annual average daily traffic (AADT) along this route ranges from a low of 6,710 to a high of 10,140. The proposed project area of the existing route is two-lanes, composed of two 12' travel lanes, with two 2' shoulders.

Analysis of crash data from 2003 through 2005, a crash rate of 1.65 (crashes per one million vehicle miles) was calculated for the existing route. This can be compared to the statewide average rate for these years of 2.51. Therefore, the existing .86± mile segment of State Route 5 has been determined to operate at a crash rate lower than the statewide average.

#### **COMMUNITY PROFILE**

According to Census 2000, Union City has a population of 10,876. Union City is the largest community in Obion County and the county seat. In 2005, the annual average unemployment rate for Union City was 6.1%, which is higher than the statewide average of 5.2% for Tennessee. Agricultural products that come from this area of West Tennessee include corn, soybeans, wheat, cattle, hogs, alfalfa, apples, peaches, and strawberries. Union City is also home to companies such as Goodyear Tire and Rubber, Tyson Food, Inc., Kohler, and Lennox Hearth Products.

# **PURPOSE OF STUDY**

The purpose of this study is to analyze existing and proposed conditions to determine the improvements needed for State Route 5 to provide route continuity and access to proposed Interstate 69. When completed, Interstate 69 will provide a continuous highway link between the Michigan/Canada and the Texas/Mexico borders. The proposed widening for this section of State Route 5 was initiated by a request from local elected officials and was ranked as a high priority by the regional Rural Planning Organization (RPO). The Prime Study Corridor recommended by the Northwest RPO began at SR-21/SR-22/SR-5 from SR-78 in Tiptonville, Lake County and extended to US 51 (SR-3) in Union City, Obion County. TDOT's Long Range Planning office prepared a needs assessment for the study area, and found the proposed project area for this report as the most deficient.

## **PURPOSE AND NEED**

The objective of this report is to define the preliminary purpose and need of the proposed improvement and estimate the cost of project implementation. The primary purpose of the proposed project is to fill in the gap of an arterial traffic network caused by the future development of I-69. The project is needed to eliminate the potential for hazardous traffic conditions caused by a chokepoint between two high volume corridor routes.

The primary need on State Route 5 in Obion County is for improved local and regional mobility. Several specific needs are encompassed in the broad goal:

- 1. Promote economic growth in Union City and Obion County by enhancing access to a National transportation system.
- 2. Provide an east/west route to serve the projected increase in demand for regional accessibility to the interstate highway system.
- 3. Increase the capacity on existing State Route 5 in order to improve safety and mobility.
- 4. Widening needed to handle the increased traffic demand spurred by commercial/residential development, and construction of a new access road connecting to the existing route.

# **LEVEL OF SERVICE**

The character of operating conditions can be quantified by a "Level of Service" (LOS) analysis. The proficiency of roads is described by their LOS. The criteria are defined as shown in the "Level of Service" section of this report and reflect the ability of roads to accommodate motor vehicle traffic and subsequent physical and psychological comfort levels of drivers. The LOS analysis incorporates several factors including traffic volumes, number of lanes, terrain, percent of no passing zones, directional split, heavy vehicles, and shoulder widths. The projected traffic volumes for the base and design years are depicted in the Project Data Table and on the traffic schematic included in this report.

LOS is a qualitative measure that describes the character of traffic conditions related to speed and travel time, freedom to maneuver, traffic interruptions, etc. There are six levels ranging from "A" to "F" with "F" being the worst. Each level represents a range of operating conditions. General descriptions of operating conditions for each of the levels of service are as follows:

#### LOS Traffic Flow Conditions

- <u>A</u> Free flow operations. Vehicles are almost completely unimpeded in their ability to maneuver within the traffic stream. The general level of physical and psychological comfort provided to the driver is high.
- <u>B</u> Reasonably free flow operations. The ability to maneuver within the traffic stream is only slightly restricted and the general level of physical and psychological comfort provided to the driver is still high.
- <u>C</u> Flow with speeds at or near free flow speeds. Freedom to maneuver within the traffic stream is noticeably restricted and lane changes require more vigilance on the part of the driver. The driver notices an increase in tension because of the additional vigilance required for safe operation.
- <u>D</u> Speeds decline with increasing traffic. Freedom to maneuver within the traffic stream is more noticeably limited. The driver experiences reduced physical and psychological comfort levels.
- E At lower boundary, the facility is at capacity. Operations are volatile because there are virtually no gaps in the traffic stream. There is little room or no room to maneuver. The driver experiences poor levels of physical and psychological comfort.
- <u>F</u> Breakdowns in traffic flow. The number of vehicles entering the highway section exceeds the capacity or ability of the highway to accommodate that number of vehicles. There is little or no room to maneuver. The driver experiences poor levels of physical and psychological comfort.

The projected design year (2032) AADT traffic ranges from a low of 8,520 to a high of 14,200. The improvements proposed in this report would allow traffic flow to operate at a projected LOS "A". The "no-build" option for the base year 2012 will be a projected LOS "C", and would allow operating conditions to deteriorate to a projected LOS "D" by the design year 2032.

## PROPOSED IMPROVEMENT

The focus of this report is to develop an option to improve existing State Route 5 (from proposed Interstate 69 (near Graham Drive) to State Route 3.)

Beginning at Interstate 69 and continuing for a length of  $0.86\pm$  miles, the proposed typical section will consist of four 12' travel lanes, a 12' continuous center turn lane, 12' shoulders, including curb and gutter and 5' sidewalk on a minimum 104' right-of-way with easements where required.

The proposed project will tie into the Interstate 69 construction. The traffic signal will be updated to accommodate double left turns from Northbound State Route 3 onto Westbound State Route 5, and double left turns from Eastbound State Route 5 onto Northbound State Route 3, exclusive left turn and right turns will be added where appropriate.

A no-build option was also analyzed for this report. The no-build option as the name implies, denotes that only minor improvements (such as safety improvements and normal maintenance) would be made to the existing road and/or intersection areas. The no-build option does not meet the purpose and need of the project, and will not provide the needed capacity to handle future traffic demands that result from the construction of I-69 and changes in land use.

## PEDESTRIANS AND BICYCLES

The proposed typical section includes 5' sidewalk to accommodate pedestrians. The 10' shoulders in the proposed typical section can be signed and marked for use as bicycle lane.

#### **DISPOSITION OF EXISTING ROUTE**

The proposed improvements in this report are along the existing route, therefore this section is non-applicable.

# ASSESSMENT OF OPTIONS

The Tennessee Department of Transportation has adopted seven guiding principles against which all transportation projects are to be evaluated. These guiding principles address concerns for system management, mobility, economic growth, safety, community, environmental stewardship, and fiscal responsibility. These guiding principles are discussed in the following paragraphs as they relate to the option for improving State Route 5 in Obion County.

# Guiding Principle 1: Preserve and Manage the Existing Transportation System

The proposed improvements for State Route 5 are consistent with TDOT's goal of preserving and managing the existing transportation system. Increasing the number of traffic lanes as well as shoulder width will allow the conditions of the existing route to meet current design standards. This project will also tie into the existing design plans of Interstate 69 through Obion County.

# Guiding Principle 2: Move a Growing, Diverse, and Active Population

The option considered in this report will provide needed capacity to address Obion County's and regional travel demands. The proposed improvement will allow easy access to Interstate 69 from State Route 3. State Route 3 provides a route between Tennessee and Kentucky to the North and provides Southwest access to Interstate 155, which provides interstate access to Arkansas and Missouri at the junction of Interstate 55, just west of the Tennessee state line.

# Guiding Principle 3: Support the State's Economy

The proposed improvements for State Route 5 would enhance accessibility to Union City and provide support for future residential and commercial development opportunities in Obion County. The anticipated growth would also promote increased employment opportunity.

# Guiding Principle 4: Maximize Safety and Security

Traffic crash rates on existing State Route 5 were calculated from crash data for the years 2003 through 2005. A total of 32 crashes were reported during that period, 8 of which resulted in injury. Of the 32 crashes, 26 occurred at the intersection of State Route 5 and State Route 3, and all 8 injury crashes took place at this intersection. The safety of State Route 5 will be improved by updating traffic signals to accommodate double left turns for both left turn movements between State Route 5 and State Route 3. The safety of the remaining project area will be improved by updating width deficient shoulders to current design standards.

## *Guiding Principle 5: Build Partnerships for Livable Communities*

This project was initiated by local officials and the Northwest RPO in order to address anticipated traffic increases due to the construction of Interstate 69. The proposed improvements will provide enhanced interstate access for businesses and residents of Union City and Obion County.

# Guiding Principle 6: Promote Stewardship of the Environment

A detailed environmental study is needed to fully address the impact of the considered option within the Area of Potential Effects (APE). The APE is the geographic area in which an undertaking may directly or indirectly impact the environment. Items listed on the Preliminary Environmental Evaluation form are located within the proposed project area, but may not necessarily be impacted. A more comprehensive analysis of the impacts will be completed at a later date to comply with the National Environmental Policy Act (NEPA). This analysis will require the consideration of environmental values in the decision making process by taking into account the environmental impacts of proposed actions and reasonable alternatives to those actions. Additional environmental disciplines such as social, economic, farmland, displacements, and land use impacts will be evaluated in the NEPA document.

# Guiding Principle 7: Promote Financial Responsibility

The anticipation of increased traffic due to construction of Interstate 69 will necessitate the proposed improvements. Completing the proposed improvements in conjunction with the construction of Interstate 69 is a cost-effective measure. This cost benefit will be further enhanced if the proposed State Route 5 project is built under the same letting for the construction of the Interstate 69 interchange.

# PRELIMINARY HISTORIC SURVEY

The Area of Potential Effect (APE) for this project was evaluated as part of the Interstate 69 records search and field survey conducted in May and June of 2000. The findings are documented in report entitled *Architectural/Historical Assessment and Asseessment of Effects, Proposed Corridor 18/Interstate 69 From the Interchange of U.S.51/U.S. 412 in Dyer County, Tennessee, to Purchase Parkway in Fulton County, Kentucky.* This report was prepared to identify architectural/historical properties listed in or eligible for the National Register of Historic Places (NHRP) located within the project APE. According to this document there are no architectural/historical resources in the APE for this project that are eligible for NRHP. This document is on file with the Tennessee Department of Transportation Environmental Planning Office.

#### **SUMMARY**

This project will improve State Route 5 along the existing route from State Route 3 (US 51) to proposed Interstate 69 to meet the purpose and need. The primary purpose of the proposed project is to fill in the gap of an arterial traffic network caused by the future development of I-69. The project is needed to eliminate the potential for hazardous traffic conditions caused by a chokepoint between two high volume corridor routes.

Improvements of State Route 5 are needed to address the following needs:

- 1. Providing an east/west route to serve demand for regional accessibility to the interstate highway system and protect that provision in the future.
- 2. Providing economic growth potential for Union City and Obion County by improving the highway system to attract new industry.
- 3. Increasing the capacity on existing State Route 5 in order to meet future traffic demand.
- 4. Providing safer operating conditions for anticipated traffic increase by eliminating a choke point between two high volume corridors.

The project area proposed in this report will be further evaluated to determine the most appropriate horizontal and vertical alignment, right-of-way, utility adjustments, environmental mitigations, and structures. The proposed project is approximately  $.86\pm$  miles in length.

The option will improve deficiencies throughout the route. The improved roadway will also enhance access to both future commercial and residential sites along the route. Other primary benefits include: (1) improved local and regional accessibility; (2) improved operating conditions along the proposed project route; (3) increased traffic capacity; and (4) enhancement of future planned growth by local and/or regional land use planning agencies.

The primary adverse effects of the proposed build option include (1) the loss of land for right-of-way; (2) temporary construction impacts (dust, siltation, equipment noise, etc.) during the construction phase; (3) traffic noise.

The comparable LOS for the no-build option is a deficient LOS of "D" by 2032. In addition, the disadvantages of the no-build option include continued inadequate operating conditions inherent with the increase traffic volumes. Some advantages of the no-build option include no disruption of the area due to construction or need for measures to mitigate environmental impacts would not be necessary.

Due to the short length of the proposed project and the interchange design, no other option was viable or cost effective. Any other option, including the "no-build" option, would fail to (1) serve future demand for regional accessibility to the interstate highway system; (2) provide economic growth potential for the city of Union City by improving the highway system; (3) increase the capacity on existing State Route 5 in order to meet future traffic demands.

In conclusion, this report identifies the option to address the purpose and need. The no-build option does meet the purpose and need. Therefore, the widening option should be advanced as a solution for further development under the NEPA planning process. Consideration should be given to the timing and scheduling of all necessary studies, permits, design, R.O.W acquisition, and construction associated with the proposed Interstate 69 interchange.

# DATA TABLE State Route 5/22 Obion County

No Build

From: SR-3/US51 To: proposed I-69

**EXISTING CONDITIONS** 

# <u>ltem</u>

Urban Principal Arterial
STP
.86 <u>+</u> / 4,550±
24/28/80
10,140
14,200
10 %



Existing State Route 5
12' travel lane with 2' shoulders

# DATA TABLE State Route 5/22 Obion County

OPTION 1

From: SR-3/US51

To: proposed I-69

# **PROPOSED**

# <u>ltem</u>

Functional Class	Url	oan Principal Arterial
System Class		STP
Length - Miles/Feet		.86 <u>+</u> / 4,550±
Cross Section		
Feet		48/84/104
Present AADT ( 2012 )		10,140
Projected		
Future AADT ( 2032 )		14,200
Percent Trucks		10%
*Estimated Right-of-Way		
Acquisition (Acres)		2.5 <u>+</u>
Estimated		
<b>Business Displacements</b>	\$	0
Estimated		
Right-of-Way Cost	\$	215,000
Estimated Utility Cost		
Reimbursable	\$	0
Estimated Utility Cost		
Non-Reimbursable	\$	246,000
Estimated		
Construction Cost	\$	3,055,000
Estimated Preliminary		
Engineering Cost	\$	210,000
Total Estimated Cost	\$	3,726,000

<sup>\*</sup>Slope or construction easements may be required outside of R.O.W.

# TENNESSEE DEPARTMENT OF TRANSPORTATION

# **DESIGN CRITERIA FOR LOCATION AND DESIGN PHASE**

ROUTE: REGION: LOCATION:		BION		SECTION:	
		20	12	ADT _	6,170-10,140
		20	32	ADT	8,520-14,200
	PERCENT TRUCKS				10%
	DHV (12%)				1,201
	FUNCTIONAL CLASSIFICA	TION			arterial
	MINIMUM DESIGN SPEED				45 MPH
	ACCESS CONTROL				none
	MAXIMUM CURVE				7° 45'(S.E.=0.04)
	MAXIMUM GRADE				6%
	MINIMUM STOPPING SIGH	T DISTANCE			360'
	SURFACE WIDTH				2 @ 24'
	NUMBER OF LANES				4
	USEABLE SHOULDER WID	тн			2 @ 12'
	MEDIAN WIDTH				12' turn lane
	MINIMUM RIGHT-OF-WAY				104' *
	SIGNALIZATION				Mod. @ SR-3 (US 51)
	REMARKS: * Easements v	will be required	outsi	ide of right-of-	way.
	Prepared by	Conceptual Pl	annin	g Office	5/8/2007

# **Preliminary Environmental Evaluation**

If preliminary field reviews indicate the presence of any of the following facilities or Economic, Social and Environmental categories (ESE), place the number of facilities in the blank opposite the item. Where more than one location option is to be considered, place its letter designation in the blank.

		Option Section
Numl	<u>pers</u>	
1.)	Hazardous Material Site or Underground Storage Tanks	<u></u>
2.)	Floodplains	
3.)	Historical, archaeological, cultural, or natural landmark, or cemeteries	
4.)	Airport	
<i>5.</i> )	Residential establishment	X
6.)	Urban area, city, town, or community(Union City Pop. 10,788)	X
7.)	Commercial area, shopping center	X
8.)	Institutional usages:  a. School or other educational institution	
9.)	Agricultural land usage	X
10.)	Forested land	
11.)	Industrial park, factory	
12.)	Recreational usages:  a. Park or recreational area, State Natural Area  b. Wildlife refuge or wildlife management area	
13.)	Waterway:  a. Lake	
14.)	Railroad Crossings	
15.)	Location coordinated with local officials	X
16.)	Other	

TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.	Index Of Sheets  SHEET NO. DESCRIPTION  1 TITLE SHEET 2 TYPICAL SECTION 3-4 PRESENT & PROPOSED LAYOUTS
			BEGIN PROJECT L.M. 17.81
		inSheets\ShtOl.dgn	SPECIAL NOTES  PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN

CHECKED BY\_\_\_\_

Index Of Sheets	STATE	OF	TENNESSEE
SHEET NO. DESCRIPTION 1 TITLE SHEET	DEPARTMENT	OF	TRANSPORTATION
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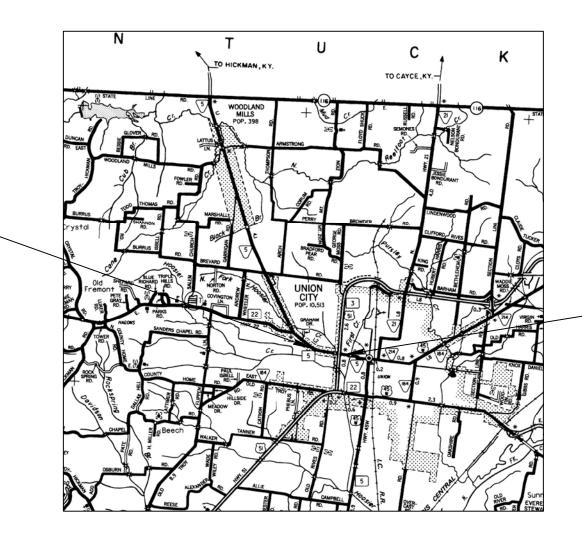
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# OBION COUNTY

STATE ROUTE 5

FROM NEAR GRAHAM DRIVE(STA. 50+00 PROJECT NO. TN-I-69(37)) TO STATE ROUTE 3(US-51)

STATE HIGHWAY NO. 5 F.A.H.S. NO.



END PROJECT

L.M. 16.95

PROJECT LOCATION

APPROVED: CHIEF ENGINEER DATE: APPROVED: COMMISSIONER

> U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED: DATE DIVISION ADMINISTRATOR

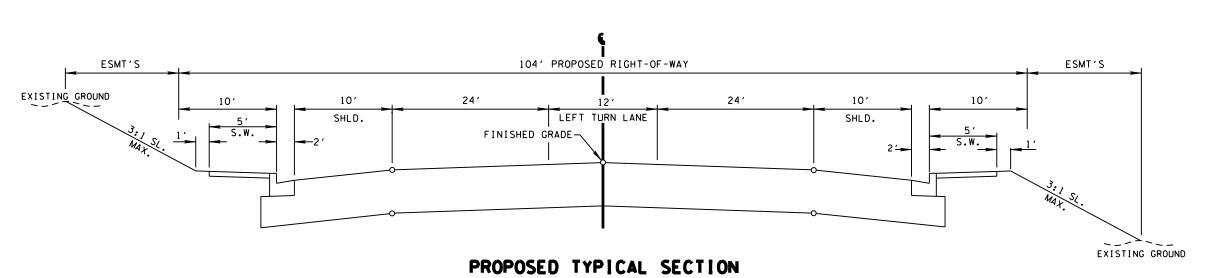
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STATE ROUTE 5

FROM NEAR GRAHAM DRIVE (STA.50+00 PROJECT NO. TN-I-69(37))

TO STATE ROUTE 3(US-51)

STATE OF TEMMESSEE DEPARTMENT OF TRAMSPORTATION

OBION COUNTY

STATE ROUTE 5

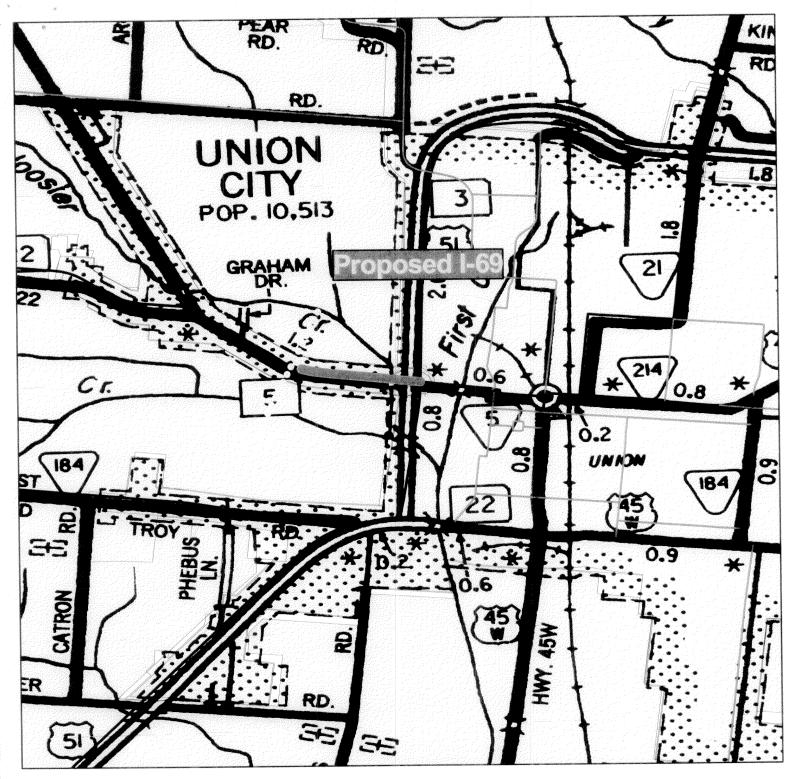


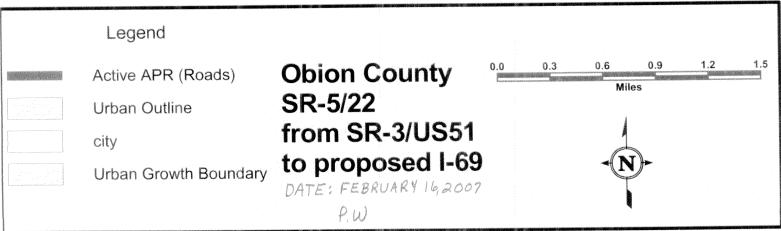


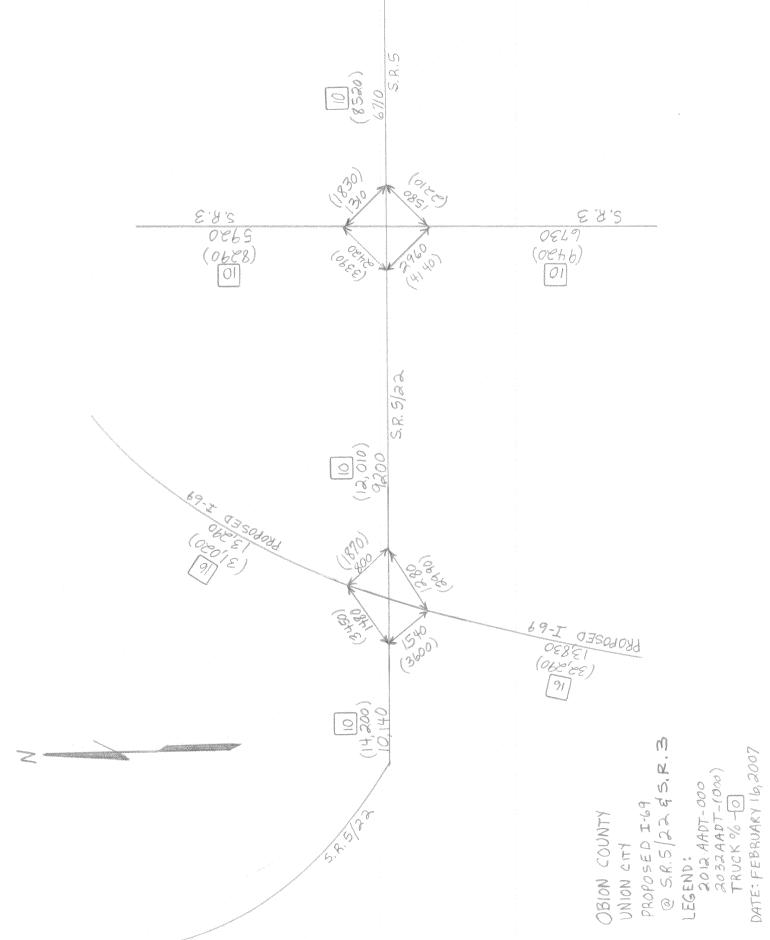
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# TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION SAFETY PLANNING SECTION

# **CRASH DATA REQUEST**

Requested by:	Name:	Danielle Letson				Date:	1/4/07
	Division:		nning				
D :	Address:	9 <sup>th</sup> floor				Telephone No.:	253-4001
Project No.:	rion:	County: Obion			City: Union	City	
Route: SR-5/2	22	County. Obioii			City. Ollion	City	
		SR-3/US51 to prop	oosed I-69			V	
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		Yes No		(	3 Years or Sp	pecify)	
Crash Listing:							
Collision Diagr	am:	H	20	003	2004	2005	
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Reviewed By:	P	avid Lollog Trans	nation Speci	alist 2		Datei	15/01
		Vall (st	- Special	unot 2		Date:	15/27
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Comments:							
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# STATE OF TENNESSEE

01/05/07 Date: County = OBION

Route = SR 5

Location = FROM SR 3 TO PROPOSED | 69 Highway Type = 2 LANE URBAN
Crash Years = 2003 - 2005
ADT Year Used = 2005 TRIMS

Comments = INCLUDES CRASHES FROM INTERSECTION W) SR 3

		QUALIFY HIGH	RISK RURAL RO	AD FUND				
AVERAGE								
BLM	ELM	Length	ADT	VMT				
16.95	17.50	0.55	7,360	4,048				
0.00	0.00	0.00	0	0				
0.00	0.00	0.00	0	0				
0.00	0.00	0.00	0	0				
0.00	0.00	0.00	0	0				
0.00	0.00	0.00	0	0				
		0.55	7,360	4.048				

AADT Year = 2005 TRIMS

Total	Fatal	Injury
32	0	8
3		
2.51	0.01	0.72
Secti	on - 2 LANE UP	RBAN
Crash	Years = 2003	3 - 2005
AADT	YEAR = 2005	5 TRIMS
4.4326		
7.22	0.00	1.80
4.37	0.23	1.77
0.2500		
1.65 <u>Does</u>	Not Qualify	
	32 3 2.51 Secti Crash AADT 4.4326 7.22 4.37 0.2500	32 0 3 2.51 0.01 Section - 2 LANE UI Crash Years = 2003 AADT YEAR = 2003 4.4326 7.22 0.00 4.37 0.23

# STATE OF TENNESSEE

01/05/07 Date: County = OBION

Route = SR 5

Location = FROM SR 3 TO PROPOSED I 69 Highway Type = 2 LANE URBAN
Crash Years = 2003 - 2005
ADT Year Used = 2005 TRIMS

Comments = DOES NOT INCLUDE CRASHES FROM INTERSECTION SR 3

		QUALIFY HIGH	RISK RURAL RO	DAD FUND	
			AVERAGE		
BLM	ELM	Length	ADT	VMT	
16.95	17.50	0.55	7,360	4,048	
0.00	0.00	0.00	0	0	
0.00	0.00	0.00	0	0	
0.00	0.00	0.00	0	0	
0.00	0.00	0.00	0	0	
0.00	0.00	0.00	0	0	
		0.55	7,360	4,048	

AADT Year = 2005 TRIMS

	Total	Fatal	Injury	
No. of Crashes	6 0 \	0	0	
No. of Years	3/1			
SW avg. rate	2.51	0.01	0.72	
	Secti	on - 2 LANE UP	RBAN	
	Crash	Years = 2003	3 - 2005	
	AADT	YEAR = 2005	TRIMS	
Exposure	4.4326			
Rate (A)	1.35	0.00	0.00	
Critical Rate (C)	4.37	0.23	1.77	
Severity Index	0.0000			
Ratio of A/C=	0.31 <u>Does</u>	Not Qualify		
TDOT PROJECT PLANNIN	G DIVISION (SAFE)	Y PLANNING S	SECTION)	



# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PLANNING DIVISION

SUITE 900, JAMES K. POLK BUILDING 505 DEADERICK STREET NASHVILLE, TENNESSEE 37243-0334

Gerald F. Nicely COMMISSIONER

Phil Bredesen GOVERNOR

# <u>MEMORANDUM</u>

TO:

Don Ellis, Manager 2

Program Development and Scheduling Office

FROM:

Terry Gladden, Manager 1 16

Project Planning Division

DATE:

November 27, 2007

SUBJECT:

Transportation Planning Report, PIN # 109006.00, State Route 5

From 0.13 miles West of SR-22 to proposed I-69, Obion County

I am enclosing a copy of the subject report bearing the signatures of the appropriate Department personnel. In addition, a PDF file of the study will soon be available via PPRM and the Transportal.

This report is being provided for your use in determining priorities, establishing future scheduling, and initiating further development of the project.

If you need further information, please contact me.

TG/dmh

**Enclosure** 

Cc/enc:

Frederick Miller, Mike Clinard, Jeff Hoge, Jane Jones, Glen

Blankenship, , Kelly Henshaw, Rob Goad, Benny McGuire, Terry

Hailey, FILE (2)

ECc:

Ed Cole, Paul Degges, Doug Delaney, Jeanne Stevens, Jeff Jones,

Steve Allen, Ralph Comer, Jim Moore, Chuck Rychen, Bill Hart, Rusty Staggs, Doug Delaney, Harold Jackson, R.B. Kathman,

Gerald Kline, Alfred Graham, Teresa Estes

# TRANSPORTATION PLANNING REPORT

# STATE ROUTE 5

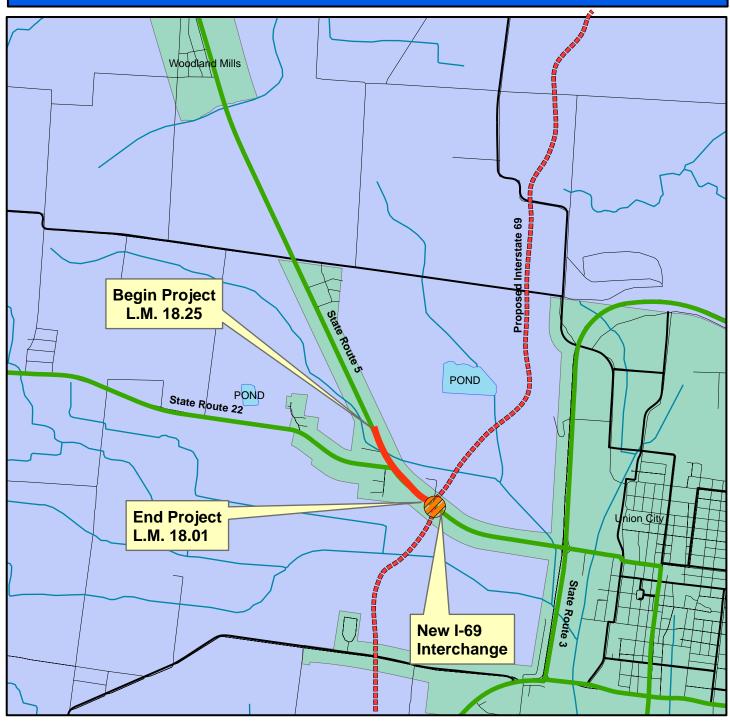
0.13 miles West of State Route 22 to Proposed Interstate 69
OBION COUNTY
PIN# 109006.00



# PREPARED BY TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION

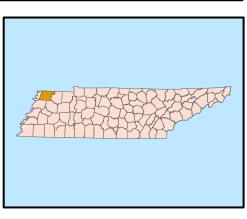
Approved by:	Signature	DATE
CHIEF OF ENVIRONMENT AND PLANNING	Edlole	11/30/07
TRANSPORTATION DIRECTOR PROJECT PLANNING DIVISION	Store Slen	11-28-07
TRANSPORTATION MANAGER 2 PROJECT PLANNING DIVISION	Bill Hart	11/27/0

# **Union City, Obion County**

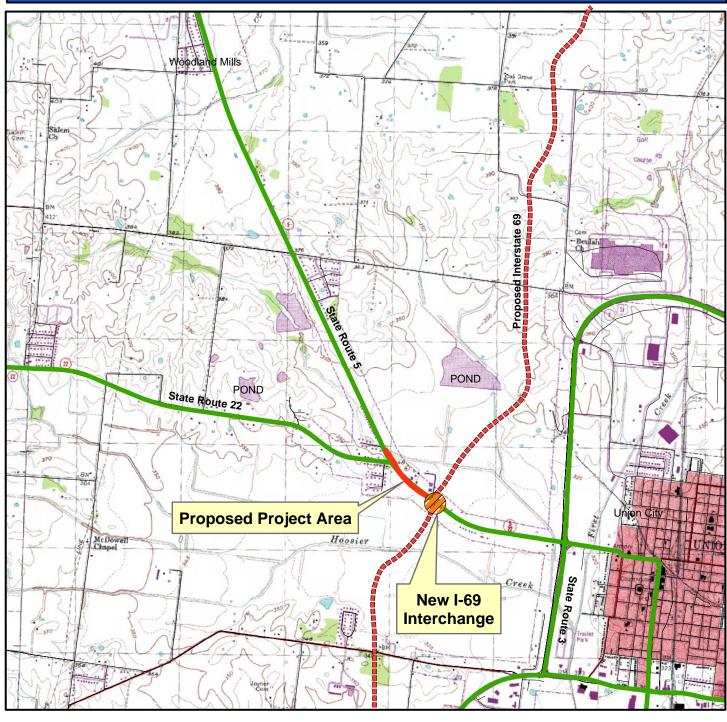




PROJECT VICINITY MAP OBION COUNTY STATE ROUTE 5 L.M. 18.25 - 18.01



# **Union City, Obion County**

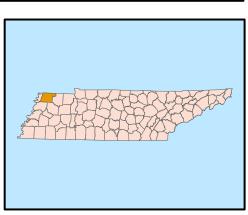




STATE ROUTES

— LOCAL ROADS

PROJECT AREA TOPOGRAPHY



## **EXISTING CONDITIONS**

State Route 5 in Obion County begins at the Gibson County line and continues to the Tennessee-Kentucky state line, a total distance of approximately 23.36 miles. This section of study is approximately 0.24± miles in length beginning at 0.13± miles West of the intersection of State Route 5 and State Route 22 and ends at the proposed Interstate 69 interchange (currently in design). This section of State Route 5 in Obion County is functionally classified as an Urban Principal Arterial on the State Highway System. The projected base year (2012) annual average daily traffic (AADT) along this route ranges from a low of 6,710 to a high of 10,140. The study area of the existing route is two-lanes, composed of two 12' travel lanes, with two 2' shoulders, and 80' of right-of-way.

Analysis of crash data, from 2003 through 2005, resulted in a crash rate of .18 (crashes per one million vehicle miles) for the existing route. This can be compared to the statewide average rate of 2.51 for similar facilities. Therefore, the existing .24 $\pm$  mile segment of State Route 5 has been determined to operate at a crash rate lower than the statewide average.

# **COMMUNITY PROFILE**

According to Census 2000, Union City has a population of 10,876. Union City is the largest community in Obion County and the county seat. In 2005, the annual average unemployment rate for Union City was 6.1%, which is higher than the statewide average of 5.2% for Tennessee. Agricultural products that come from this area of West Tennessee include corn, soybeans, wheat, cattle, hogs, alfalfa, apples, peaches, and strawberries. Union City is also home to companies such as Goodyear Tire and Rubber, Tyson Food, Inc., Kohler, and Lennox Hearth Products.

# **PURPOSE OF STUDY**

The purpose of this study is to analyze existing and future roadway conditions and to develop options for improvements of State Route 5 to provide route continuity and access to proposed Interstate 69. When completed, Interstate 69 is proposed to provide a continuous highway link between the Michigan/Canada and the Texas/Mexico borders. The study for this section of State Route 5 was initiated by a request from local elected officials and was ranked as a high priority by the Northwest Rural Planning Organization (RPO). The Prime Study Corridor recommended by the Northwest RPO began at SR-21/SR-22/SR-5 from SR-78 in Tiptonville, Lake County and extended to US 51 (SR-3) in Union City, Obion County. TDOT's Long Range Planning office prepared a needs assessment for the study area, and found the study area for this report as the most deficient.

# PURPOSE AND NEED

The objective of this report is to define the preliminary purpose and need of the improvement options and estimate the cost of project implementation. The primary purpose of the improvement is to fill the gap of an arterial traffic network caused by the future development of I-69. The improvements are needed to eliminate the potential for hazardous traffic conditions caused by a chokepoint between two high volume corridor routes.

The primary need on State Route 5 in Obion County is for improved local and regional mobility. Several specific needs are encompassed in the broad goal:

- 1. Promote economic growth in Union City and Obion County by enhancing access to a National transportation system.
- 2. Provide an east/west route to serve the projected increase in travel demand for regional accessibility to the interstate highway system.
- 3. Increase the capacity on existing State Route 5 in order to improve safety and mobility.
- 4. Widening needed to handle the increased traffic demand spurred by commercial/residential development, and construction of a new interchange connecting to the existing route.

# **LEVEL OF SERVICE**

The character of operating conditions can be quantified by a "Level of Service" (LOS) analysis. The proficiency of roads is described by their LOS. The criteria are defined as shown in the "Level of Service" section of this report and reflect the ability of roads to accommodate motor vehicle traffic and subsequent physical and psychological comfort levels of drivers. The LOS analysis incorporates several factors including traffic volumes, number of lanes, terrain, percent of no passing zones, directional split, heavy vehicles, and shoulder widths. The projected traffic volumes for the base and design years are depicted in the Project Data Table and on the traffic schematic included in this report.

LOS is a qualitative measure that describes the character of traffic conditions related to speed and travel time, freedom to maneuver, traffic interruptions, etc. There are six levels ranging from "A" to "F" with "F" being the worst. Each level represents a range of operating conditions. General descriptions of operating conditions for each of the levels of service are as follows:

## LOS Traffic Flow Conditions

- <u>A</u> Free flow operations. Vehicles are almost completely unimpeded in their ability to maneuver within the traffic stream. The general level of physical and psychological comfort provided to the driver is high.
- <u>B</u> Reasonably free flow operations. The ability to maneuver within the traffic stream is only slightly restricted and the general level of physical and psychological comfort provided to the driver is still high.
- <u>C</u> Flow with speeds at or near free flow speeds. Freedom to maneuver within the traffic stream is noticeably restricted and lane changes require more vigilance on the part of the driver. The driver notices an increase in tension because of the additional vigilance required for safe operation.
- <u>D</u> Speeds decline with increasing traffic. Freedom to maneuver within the traffic stream is more noticeably limited. The driver experiences reduced physical and psychological comfort levels.
- E At lower boundary, the facility is at capacity. Operations are volatile because there are virtually no gaps in the traffic stream. There is little room or no room to maneuver. The driver experiences poor levels of physical and psychological comfort.
- F Breakdowns in traffic flow. The number of vehicles entering the highway section exceeds the capacity or ability of the highway to accommodate that number of vehicles. There is little or no room to maneuver. The driver experiences poor levels of physical and psychological comfort.

The projected design year (2032) AADT traffic ranges from a low of 8,520 to a high of 14,200. The improvements proposed in this report would allow traffic flow to operate at a projected LOS "A". The "no-build" option for the base year 2012 will be a projected LOS "C", and would allow operating conditions to deteriorate to a projected LOS "D" by the design year 2032.

## PROPOSED IMPROVEMENT

The focus of this report is to develop options to improve existing State Route 5 from 0.13± miles West of the State Route 5 and State Route 22 intersection to proposed Interstate 69.

Beginning at  $0.13\pm$  miles West of the State Route 22 intersection with State Route 5 and continuing for a length of  $0.24\pm$  miles, the proposed typical section will consist of four 12' travel lanes, a 12' continuous center turn lane, 12' shoulders, including curb and gutter and 5' sidewalk on a minimum 104' right-of-way with easements where required.

The proposed project will tie into the Interstate 69 construction. A traffic signal and turn lanes will be installed at the intersection of State Route 5 and State Route 22. In addition, the skew of the intersection will be modified to improve sight distance.

# PEDESTRIANS AND BICYCLES

The improvement options include sidewalks to accommodate pedestrians. The 10' shoulders in the proposed typical section can be signed and marked for use as bicycle lanes.

# **DISPOSITION OF EXISTING ROUTE**

The improvement options in this report are along the existing route, therefore this section is non-applicable.

# **ASSESSMENT OF OPTIONS**

The Tennessee Department of Transportation has adopted seven guiding principles against which all transportation projects are to be evaluated. These guiding principles address concerns for system management, mobility, economic growth, safety, community, environmental stewardship, and fiscal responsibility. These guiding principles are discussed in the following paragraphs as they relate to the option for improving State Route 5 in Obion County.

# Guiding Principle 1: Preserve and Manage the Existing Transportation System

The improvement options for State Route 5 are consistent with TDOT's goal of preserving and managing the existing transportation system. Increasing the number of traffic lanes as well as shoulder width will allow the conditions of the existing route to meet current design standards. This project will also tie into the existing design plans of Interstate 69 through Obion County.

# Guiding Principle 2: Move a Growing, Diverse, and Active Population

The option considered in this report will provide needed capacity to address Obion County's and regional travel demands. The improvement options will provide easy access to Interstate 69 from State Route 3. State Route 3 provides a route between Tennessee and Kentucky to the North and provides Southwest access to Interstate 155, which provides interstate access to Arkansas and Missouri at the junction of Interstate 55, just west of the Tennessee state line.

# Guiding Principle 3: Support the State's Economy

The improvement options for State Route 5 would enhance accessibility to Union City and promote future residential and commercial development opportunities in Obion County. The anticipated growth would also promote increased employment opportunity.

# **Guiding Principle 4: Maximize Safety and Security**

Traffic crash rates on existing State Route 5 were calculated from crash data for the years 2003 through 2005. A total of 8 crashes were reported during that three year period. Of the 8 crashes, 6 occurred at the intersection of State Route 5 and State Route 22. The safety of State Route 5 will be improved by installation of a traffic signal and turn lanes proposed at this intersection. Sight distance will also be improved at this intersection by improving the angle at which State Route 22 intersects State Route 5. The safety of the remaining study area will be improved by updating width deficient shoulders to current design standards.

# Guiding Principle 5: Build Partnerships for Livable Communities

This study was initiated by local officials and the Northwest RPO in order to address anticipated traffic increases due to the construction of Interstate 69. The improvement options will provide enhanced interstate access for businesses and residents of Union City and Obion County.

# Guiding Principle 6: Promote Stewardship of the Environment

A detailed environmental study is needed to fully address the impact of the considered option within the Area of Potential Effects (APE). The APE is the geographic area in which an undertaking may directly or indirectly impact the environment. Items listed on the Preliminary Environmental Evaluation form are located within the study area, but may not necessarily be impacted. A more comprehensive analysis of the impacts will be completed at a later date to comply with the National Environmental Policy Act (NEPA). This analysis will require the consideration of environmental values in the decision making process by taking into account the environmental impacts of proposed actions and reasonable alternatives to those actions. Additional environmental disciplines such as social, economic, farmland, residential and business displacements, and land use impacts will be evaluated in the NEPA document.

# Guiding Principle 7: Promote Financial Responsibility

The anticipation of increased traffic due to construction of Interstate 69 will necessitate the proposed improvements. Completing the proposed improvements in conjunction with the construction of Interstate 69 is a cost-effective measure.

#### PRELIMINARY HISTORIC SURVEY

The Area of Potential Effect (APE) for this project was evaluated as part of the Interstate 69 records search and field survey conducted in May and June of 2000. The findings are documented in report entitled *Architectural/Historical Assessment and Assessment of Effects, Proposed Corridor 18/Interstate 69 From the Interchange of U.S.51/U.S. 412 in Dyer County, Tennessee, to Purchase Parkway in Fulton County, Kentucky.* This report was prepared to identify architectural/historical properties listed in or eligible for the National Register of Historic Places (NHRP) located within the project APE. According to this document there are no architectural/historical resources in the APE for this project that are eligible for NRHP. This document is on file with the Tennessee Department of Transportation Environmental Planning Office.

## **SUMMARY**

This improvement option will enhance State Route 5 along the existing route from .13± miles west of the intersection of State Route 5 and State Route 22 to proposed Interstate 69 to meet the purpose and need. The primary purpose of the proposed option is to fill the gap of an arterial traffic network caused by the future development of I-69. The improvements are needed to eliminate the potential for hazardous traffic conditions caused by a chokepoint between two corridors.

Improvements of State Route 5 are needed to address the following needs:

- 1. Providing an east/west route to serve demand for regional accessibility to the interstate highway system and protect that provision in the future.
- 2. Providing economic growth potential for Union City and Obion County by improving the highway system to attract new industry.
- 3. Increasing the capacity on existing State Route 5 in order to meet future traffic demand.
- 4. Providing safer operating conditions for anticipated traffic increase by eliminating a choke point between two corridors.
- 5. Improving safety at the intersection of State Route 22 by removing the skew and adding a traffic signal.

The study area proposed in this report will be further evaluated to determine the most appropriate horizontal and vertical alignment, right-of-way, utility adjustments, environmental mitigations, and structures. The proposed project is approximately  $.24\pm$  miles in length.

The improvement option will eliminate geometric deficiencies throughout the route. The continuous center turn lane will provide enhanced safety and access to both future commercial and residential sites along the route. Other benefits include: (1) improved local and regional accessibility; (2) improved operating conditions along the proposed project route; (3) increased traffic capacity; and (4) enhancement of future planned growth by local and/or regional land use planning agencies.

The primary adverse effects of the proposed build option include (1) the loss of land for right-of-way; (2) temporary construction impacts (dust, siltation, equipment noise, etc.) during the construction phase; (3) traffic noise.

The comparable LOS for the no-build option is a deficient LOS of "D" by 2032. In addition, the disadvantages of the no-build option include continued inadequate operating conditions inherent with the increased traffic volumes. Some advantages of the no-build option include no disruption of the area due to construction or need for measures to mitigate environmental impacts.

Due to the short length of the proposed project and the interchange currently under design, no other option was recognized as cost effective. Any other option, including the "no-build" option, would fail to (1) serve future demand for regional accessibility to the interstate highway system; (2) provide economic growth potential for the city of Union City and the surrounding area; (3) increase the capacity on existing State Route 5.

In conclusion, this report offers guidance to address the purpose and need. The no-build option does meet the purpose and need. Therefore, the guidance offered for the widening option should be given consideration for further development under the NEPA planning process. Consideration should also be given to the timing and scheduling of all necessary studies, permits, design, R.O.W acquisition, and construction associated with the proposed Interstate 69 interchange.

# **DATA TABLE** State Route 5 **Obion County EXISTING CONDITIONS**

No Build

From: 0.13± miles west of SR-22 To: proposed I-69

# <u>ltem</u>

Functional Class	Urban Principal Arterial
System Class	STP
Length - Miles/Feet	.24 <u>+</u> / 1,270±
Cross Section Feet	24/28/80
Present AADT ( 2012 )	10,140
Projected Future AADT ( 2032 )	14,200
Percent Trucks	10 %



**Existing State Route 5** 12' travel lane with 2' shoulders

# DATA TABLE State Route 5/22 Obion County

OPTION 1

From: .13± west of SR-5 @ SR-22

To: proposed I-69

# **PROPOSED**

# <u>ltem</u>

Functional Class	Urban Principal Arterial	
System Class	STP	
Length – Miles/Feet	.24 <u>+</u> / 1,267±	
Cross Section		
Feet	48/84/104	
Present AADT ( 2012 )	10,140	
Projected	·	
Future AADT ( 2032 )	14,200	
Percent Trucks	10%	
*Estimated Right-of-Way		
Acquisition (Acres)	2.5 <u>+</u>	
Estimated		
<b>Business Displacements</b>	\$ 0	
Estimated		
Right-of-Way Cost	\$ 697,000	
Estimated Utility Cost		
Reimbursable	\$ <b>0</b>	
Estimated Utility Cost		
Non-Reimbursable	\$ 72,000	
Estimated		
Construction Cost	\$ 1,315,000	
<b>Estimated Preliminary</b>		
Engineering Cost	\$ 90,000	
Total Estimated Cost	\$ 2,174,000	

<sup>\*</sup>Slope or construction easements may be required outside of R.O.W.

# **Preliminary Environmental Evaluation**

If preliminary field reviews indicate the presence of any of the following facilities or Economic, Social and Environmental categories (ESE), place the number of facilities in the blank opposite the item. Where more than one location option is to be considered, place its letter designation in the blank.

		Option Section
Numl	<u>pers</u>	
1.)	Hazardous Material Site or Underground Storage Tanks	
2.)	Floodplains	
3.)	Historical, archaeological, cultural, or natural landmark, or cemeteries	
4.)	Airport	
<i>5.</i> )	Residential establishment	X
6.)	Urban area, city, town, or community(Union City Pop. 10,788)	X
7.)	Commercial area, shopping center	X
8.)	Institutional usages:  a. School or other educational institution  b. Hospital or other medical facility  c. Church or other religious institution  d. Public Building, e.g., fire station  e. Defense installation	
9.)	Agricultural land usage	X
10.)	Forested land	
11.)	Industrial park, factory	
12.)	Recreational usages:  a. Park or recreational area, State Natural Area  b. Wildlife refuge or wildlife management area	
13.)	Waterway:  a. Lake	
14.)	Railroad Crossings	
15.)	Location coordinated with local officials	
16.)	Other	

FOT COOT DATA CUEFT	
EST. COST DATA SHEET	
SR-5 in Obion County	
PROJECT: From .13± West of SR 22 to Prop. I-69	
LENGTH: 0.24± CROSS SECTION: 4 lane arterial	
Right-of-Way	
EST. RIGHT-OF-WAY COST	697,000
	\$697,000
Utility Relocation	φου, 1600
Reimbursable	
	<b>\$70,000</b>
Non-Reimbursable	\$72,000
EST. ADJUSTMENT COST	
	\$72,000
<u>Construction</u>	
Clearing and Grubbing	\$10,000
Earthwork	\$95,000
Pavement Removal	\$0
Drainage	\$140,000
Structures	\$0
Railroad Crossing or Separation	\$0
Paving	\$355,000
Retaining Walls	\$0
Maintenance of Traffic	\$10,000
Topsoil	\$5,000
Seeding	\$5,000
•	\$5,000 \$5,000
Sodding	
Signing	\$1,000
Lighting	\$0
Signalization	\$120,000
Fence	\$0
Guardrail	\$0
Rip Rap or Slop Protection	\$0
Other Construction Items (15%)	\$110,000
Mobilization	\$45,000
10% Engineering and Contingencies	\$90,000
6% X 5 years = 30%	\$325,000
EST. CONSTRUCTION COST	\$1,316,000
Preliminary Engineering (10%)	\$90,000
l	
EST. SECTION COST	\$2,175,000

# TENNESSEE DEPARTMENT OF TRANSPORTATION

# **DESIGN CRITERIA FOR LOCATION AND DESIGN PHASE**

ROUTE:		SECTION:	
REGION:	4 COUNTY: OBION		
OCATION:	FROM 0.13 miles West of SR-22 To Proposed Interstate 69		
	20 <mark>12 </mark> A	NDT _	6,170-10,140
	20 <mark>32</mark> A	NDT _	8,520-14,200
	PERCENT TRUCKS		10%
	DHV (12%)		1,201
	FUNCTIONAL CLASSIFICATION		arterial
	MINIMUM DESIGN SPEED		45 MPH
	ACCESS CONTROL		none
	MAXIMUM CURVE		7° 45'(S.E.=0.04)
	MAXIMUM GRADE		6%
	MINIMUM STOPPING SIGHT DISTANCE		360'
	SURFACE WIDTH		2 @ 24'
	NUMBER OF LANES	_	4
	USEABLE SHOULDER WIDTH		2 @ 12'
	MEDIAN WIDTH		12' turn lane
	MINIMUM RIGHT-OF-WAY		104' *
	SIGNALIZATION		Mod. @ SR-3 (US 51)
	REMARKS: * Easements will be required outside	le of right-of-	way.

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ILE NO.

Index Of Sheets

SHEET NO. DESCRIPTION

# STATE OF TENNESSEE Department of transportation Bureau of engineering

TENIN	YEAR	SHEET NO.
TENN.	2007	1
FED. AID PROJ. NO.		
57475 DD0 : NO		

1.....TITLE SHEET

2.....TYPICAL SECTION SHEET

3 and 4.....PROPOSED LAYOUT SHEETS



TO: 0.13 ± Mile East of State Route 22

STATE HIGHWAY NO. 5

F.A.H.S. NO. N/A





**BEGIN PROJECT** 

# SPECIAL NOTES

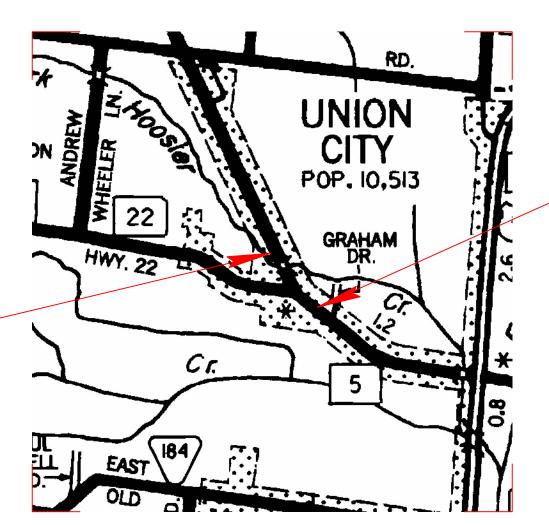
PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT ROAD SP. SV. 2 COMER L. TILLEY

GWEN S. AVERY, TECH. CHECKED BY

P.E. NO.\_\_\_\_\_



SCALE: 1"= 1-1/2 MILE

END PROJECT

	CHIEF ENGINEER
DATE:	
APPROVED:	

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

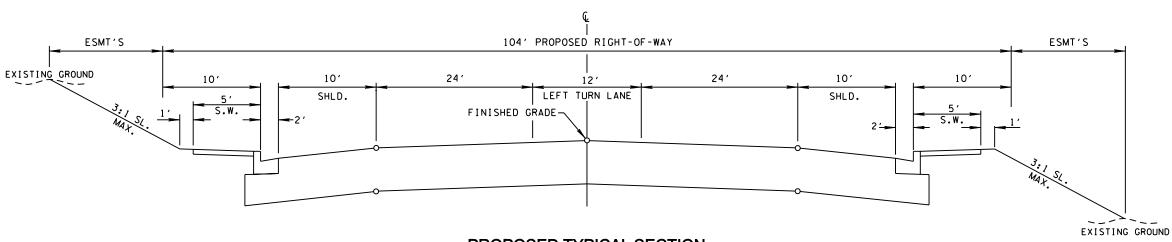
APPROVED:

DIVISION ADMINISTRATOR

DATE

/8/2007

TYPE	YEAR	PROJECT NO.	SHEET NO.
•	2007	•	·2
•		•	•
•		•	
•	•	•	•



PROPOSED TYPICAL SECTION

STATE ROUTE 5

FROM: Near North Fork Hoosier Creek TO: 0.13 ± Mile East of State Route 22

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

OBION COUNTY
STATE ROUTE 5

NOT TO SCALE

