

**DRAFT**



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION  
SUITE 1000, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-0334**

**John Schroer**  
COMMISSIONER

**Bill Haslam**  
GOVERNOR

**MEMORANDUM**

To: Mr. Paul Degges, Chief Engineer and Deputy Commissioner

From: Steve Allen, Director  
Project Planning Division

Date: July 19, 2013

**Subject: ROAD SAFETY AUDIT REVIEW (RSAR) ROUTE 01861 (USSERY ROAD, PALMYRA ROAD, VERNON CREEK ROAD AND BUDDS CREEK ROAD) FROM STATE ROUTE 149 TO STATE ROUTE 13 LOG MILE 0.00 TO 7.09, MONTGOMERY COUNTY, PIN 118469.00**

This project was identified through the Tennessee Department of Transportation (TDOT) safety needs planning process. The section of Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road) from log mile 0.00 to log mile 7.09 is a two (2) lane rural minor collector with lane widths of ten (10) feet, and variable width shoulders. Route 01861 appears on the Highway Safety Improvement Program (HSIP) list and qualifies for the High Risk Rural Roads (HRRR) program because Route 01861 has a severe crash rate of 0.35, which exceeds the statewide average severe crash rate of 0.162 for a rural minor collector.

The total estimated cost of improvements listed in the report is \$353,800. Right-of-way acquisition is not required. A maintenance agreement is required (Montgomery County). A local match is required (\$3,200 – Montgomery County). These improvements will be let to contract.

If you should need any further information, please contact me at (615) 741-2208 or email me at [Steve.Allen@tn.gov](mailto:Steve.Allen@tn.gov).

SA/BT

Attachment

CC: Adetokunbo Omishakin, David Lahew, Jim Moore, Brian Hurst, Mike Tugwell, Phil Trammel, Stan Williams, FILE

# ***ROAD SAFETY AUDIT REPORT***

***ROUTE 01861 (USSERY ROAD, PALMYRA ROAD, VERNON CREEK  
ROAD AND BUDDS CREEK ROAD) FROM STATE ROUTE 149 TO  
STATE ROUTE 13  
L.M. 0.00 – 7.09  
MONTGOMERY COUNTY  
PIN 118469.00***



**Draft**  
Submittal: 7-19-13

***PREPARED BY  
RPM TRANSPORTATION CONSULTANTS, LLC  
FOR THE  
TENNESSEE DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION***

Approved by:	Signature	DATE
<b>DIRECTOR Project Planning Division</b>		

*This document is covered by 23 USC § 409 and its production pursuant to fulfilling public planning requirements does not waive the provisions of § 409.*

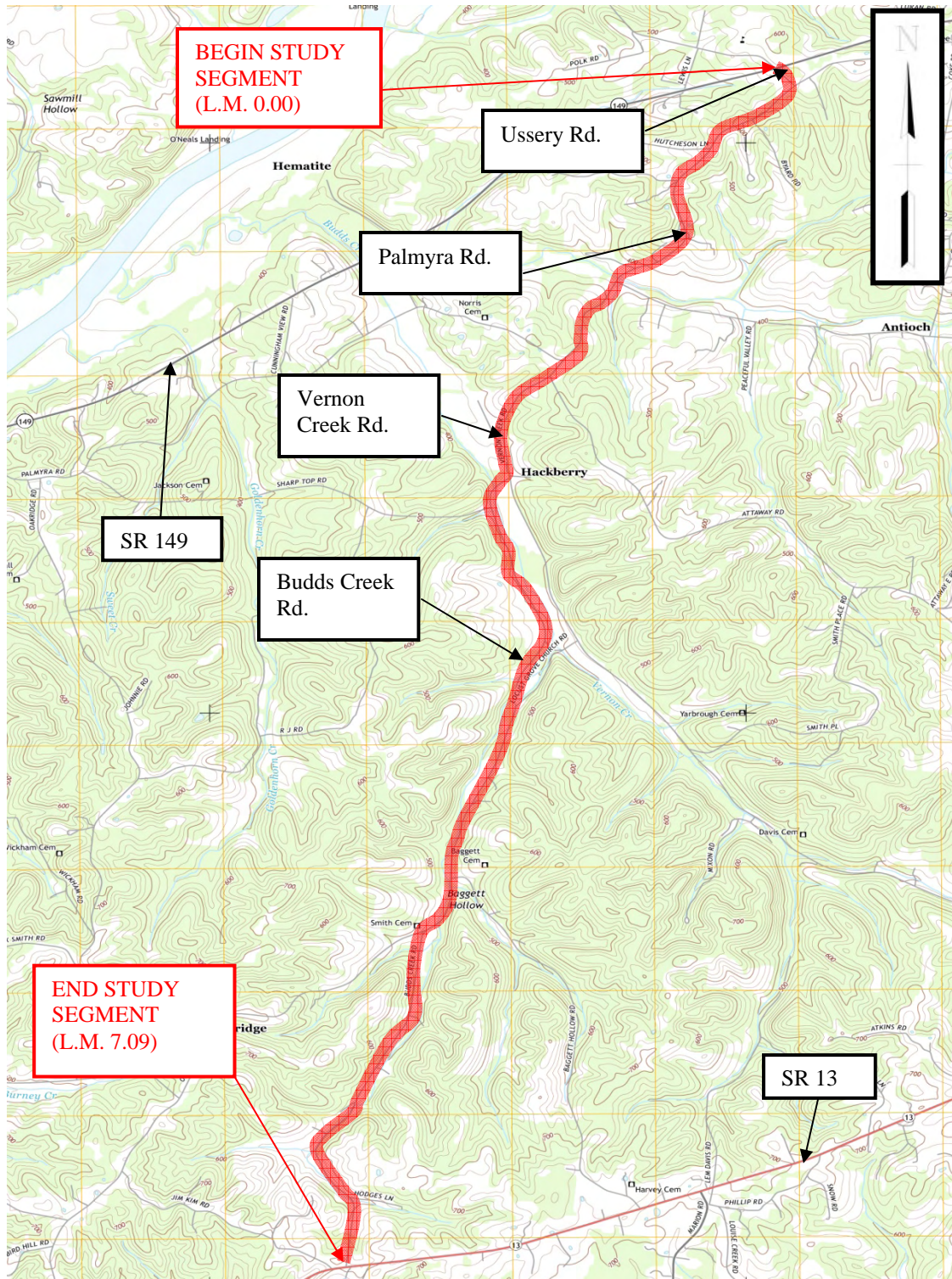


Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00



Source: United States Geological Survey (USGS). Not to Scale.

**Vicinity Map**

**Route 01861, Montgomery County**

**L.M. 0.00 – 7.09**

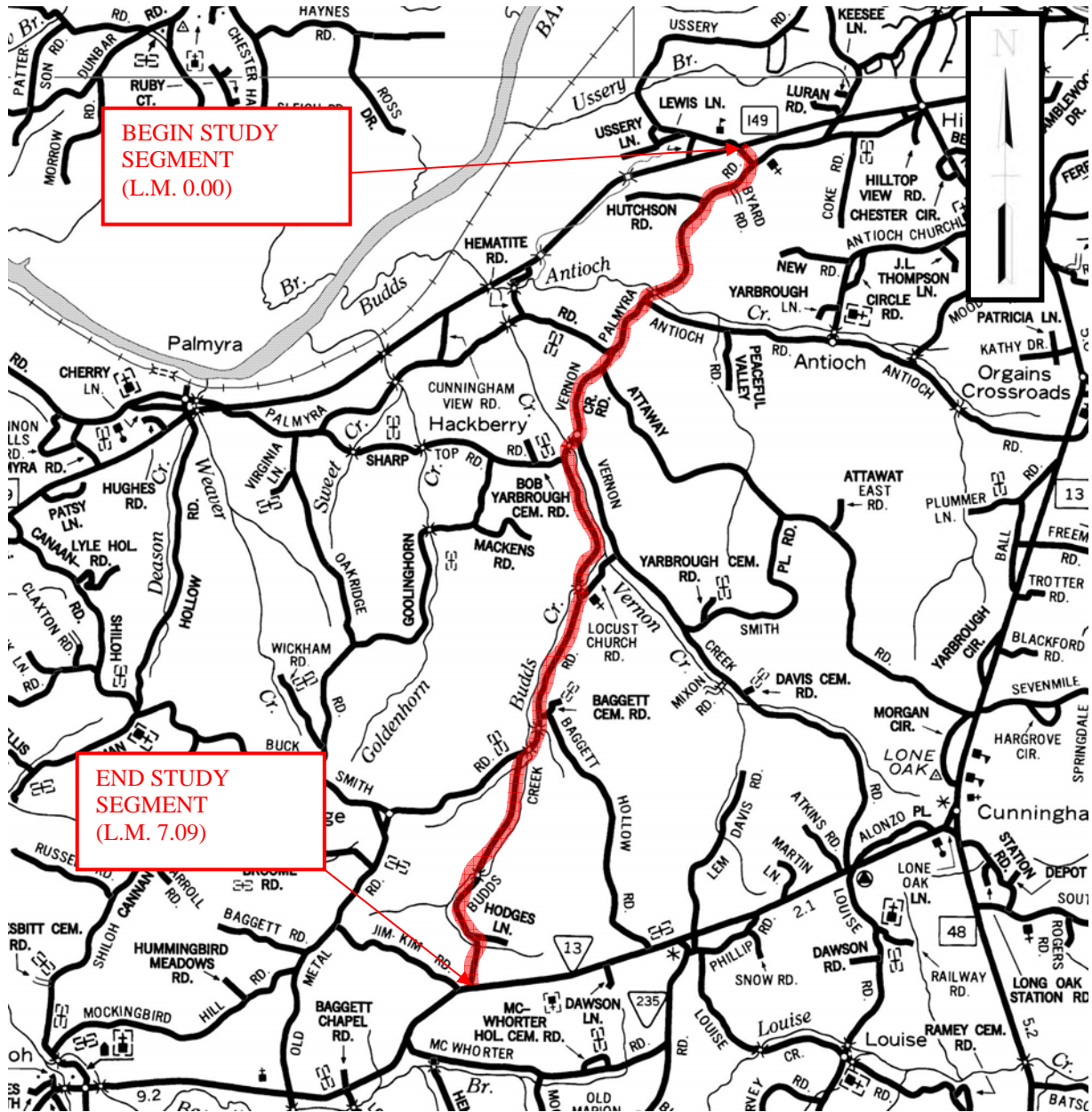


Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00



Source: TDOT County and City Maps. Not to Scale.

## Location Map

Route 01861, Montgomery County

L.M. 0.00 – 7.09

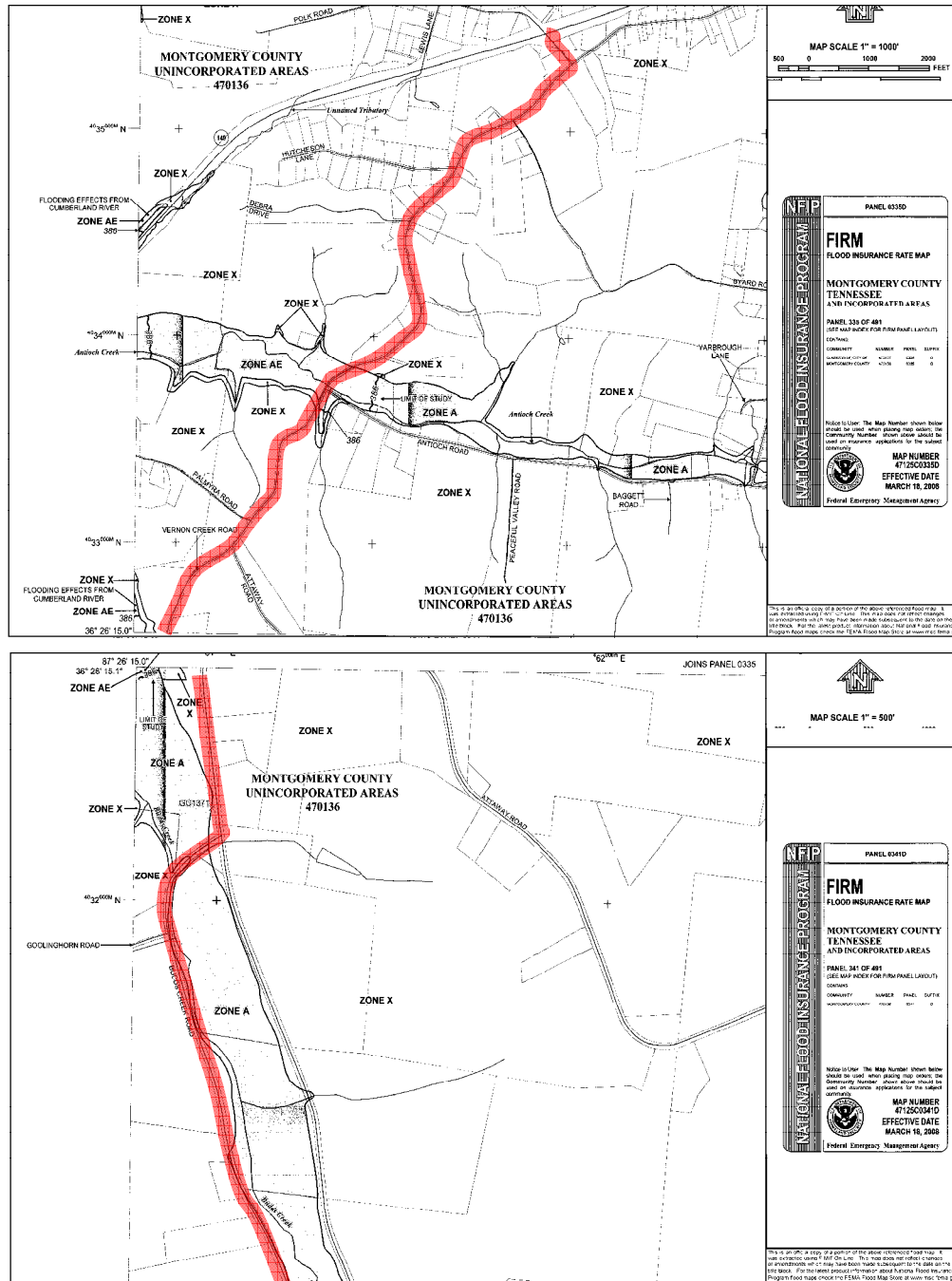


## Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00



Source: Federal Emergency Management Agency (FEMA). Not to Scale.

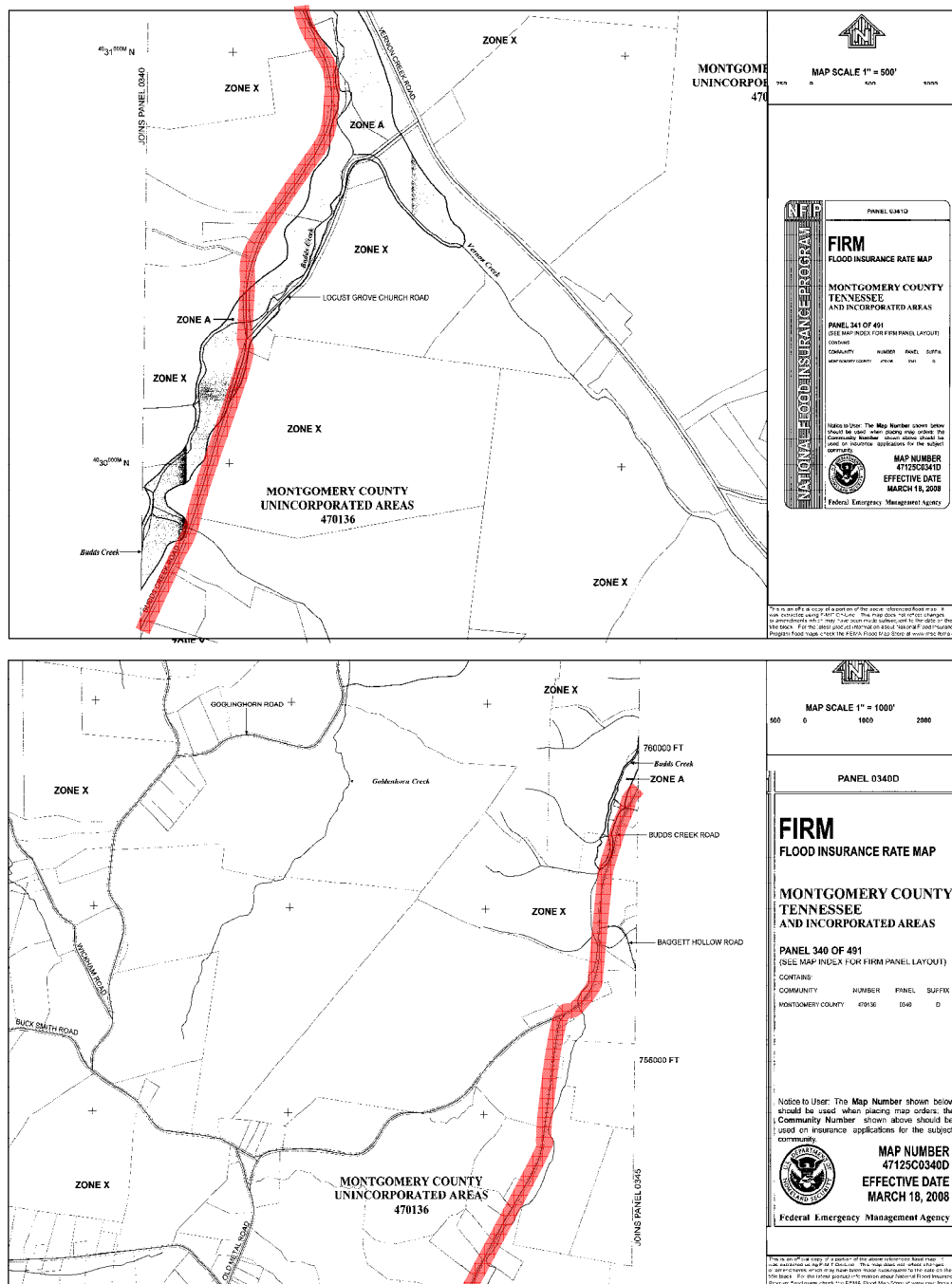
## Flood Maps (1 and 2 of 5) Route 01861, Montgomery County L.M. 0.00 – 2.30 and L.M. 2.30 – 3.40

## Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00



Source: Federal Emergency Management Agency (FEMA). Not to Scale.

## Flood Maps (3 and 4 of 5)

## Route 01861, Montgomery County

L.M. 3.40 – 4.40 and L.M. 4.40 – 5.40



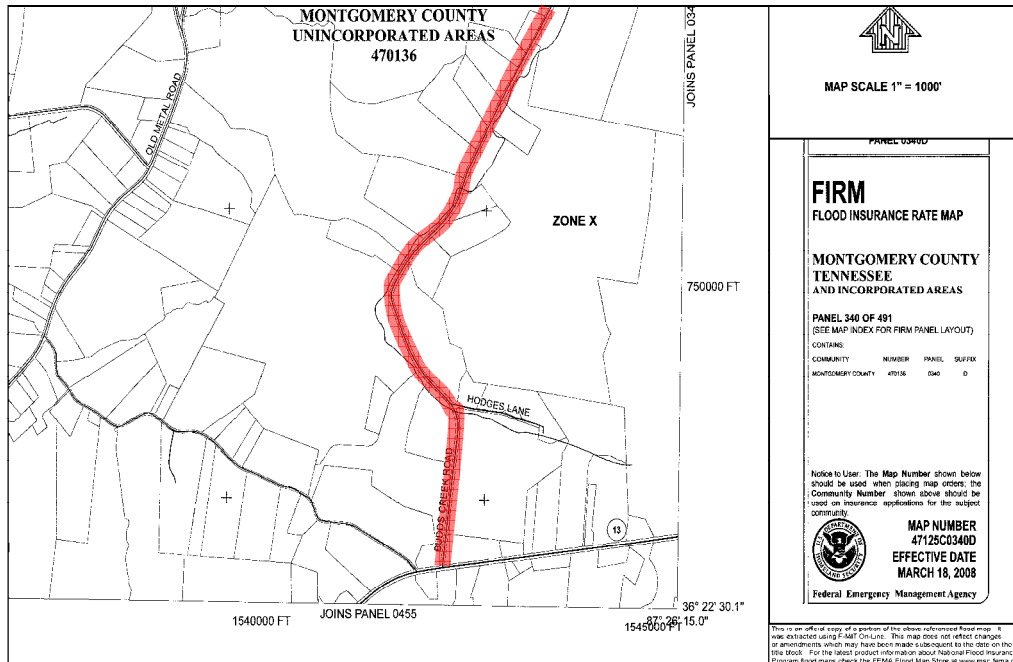
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Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00



Source: Federal Emergency Management Agency (FEMA). Not to Scale.

**Flood Maps (5 of 5)**

**Route 01861, Montgomery County**

**L.M. 5.40 – 7.09**

Montgomery County  
Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)  
L.M. 0.00 – 7.09  
Road Safety Audit Review PIN 118469.00

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## Road Safety Audit Review

### Description of Project and Background

This project was identified through the Tennessee Department of Transportation (TDOT) safety needs planning process. The section of Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road) from log mile 0.00 to log mile 7.09 is a two (2) lane rural minor collector with lane widths of ten (10) feet, and variable width shoulders. Route 01861 appears on the Highway Safety Improvement Program (HSIP) list and qualifies for the High Risk Rural Roads (HRRR) program because Route 01861 has a severe crash rate of 0.35, which exceeds the statewide average severe crash rate of 0.162 for a rural minor collector.

### RSAR Team Members

A RSAR team was assembled to evaluate the segment of Route 01861 from State Route 149 (L.M. 0.00) to State Route 13 (L.M. 7.09) in Montgomery County to determine appropriate safety measures.

### Team Members

<u>Name</u>	<u>Organization</u>	<u>Title</u>	<u>Phone</u>	<u>Email</u>
Gena Gilliam	TDOT	Project Planning	615-253-7692	<a href="mailto:gena.gilliam@tn.gov">gena.gilliam@tn.gov</a>
Mike Gilbert	TDOT	Project Planning	615-741-0772	<a href="mailto:mike.gilbert@tn.gov">mike.gilbert@tn.gov</a>
Antonio Johnson	Middle Tennessee RPO	Rural Planning Coordinator	615-850-3937	<a href="mailto:ajohnson@mchra.com">ajohnson@mchra.com</a>
Mike Frost	Montgomery County	Highway Department	931-648-5740	<a href="mailto:rmfrost@montgomerycountyttn.org">rmfrost@montgomerycountyttn.org</a>
Stan Williams	City of Clarksville	MPO Director	615-645-7448	<a href="mailto:stanwilliams@cityofclarksville.com">stanwilliams@cityofclarksville.com</a>
Eric Jackson	TDOT	Traffic	615-741-0802	<a href="mailto:eric.jackson@tn.gov">eric.jackson@tn.gov</a>
Scott Johnson	TDOT	Region 3 Design	615-350-4263	<a href="mailto:scott.johnson@tn.gov">scott.johnson@tn.gov</a>
Terry Arnold	TDOT	Region 3 Design	615-350-4274	<a href="mailto:terry.arnold@tn.gov">terry.arnold@tn.gov</a>
Stanley Sumner	TDOT	Region 3 Traffic	615-350-4383	<a href="mailto:stanley.sumner@tn.gov">stanley.sumner@tn.gov</a>
Blake Turner	RPM	Engineer	615-370-8410	<a href="mailto:blaketurner@rpmtraffic.net">blaketurner@rpmtraffic.net</a>
Tyler Fosnes	RPM	E.I.T.	615-370-8410	<a href="mailto:tylerfosnes@rpmtraffic.net">tylerfosnes@rpmtraffic.net</a>
Najmeh Jami	RPM	E.I.T.	615-370-8410	<a href="mailto:najmehjami@rpmtraffic.net">najmehjami@rpmtraffic.net</a>



Montgomery County  
Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)  
L.M. 0.00 – 7.09  
Road Safety Audit Review PIN 118469.00

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## **Information used in the Review**

- Montgomery County highway map
- Montgomery County functional classification map
- TRIMS Route Feature Description Listing
- TRIMS Highway Log Report
- TRIMS Traffic Report
- TRIMS Road Segment Report
- Aerial photography
- Crash rate summary (included in appendix)
- Select crash reports
- Field Review Comments

## **Pre-Brief Summary**

A pre-brief meeting was held at 1:00 PM on Tuesday, May 28, 2013 at TDOT headquarters in Nashville. The following aspects of the roadway section under study were discussed:

- The majority of crashes involved multiple vehicles negotiating horizontal curves.
- Almost half (43%) of the crashes occurred during nighttime hours.

The study section had fifty-three (53) crashes from 2004-2009. The fifty-three (53) crashes included thirty-eight (38) property damage crashes, ten (10) non-incapacitating injury crashes, four (4) incapacitating injury crashes resulting in nine (9) incapacitating injuries, and one (1) fatal crash resulting in one (1) fatality. Forty-eight (48) (91%) of these crashes were single vehicle crashes. The existing annual average daily traffic (AADT) on the study segment is 920 vehicles per day.

Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00

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## Observations

An onsite field review was held at 10:00 AM CDT on Thursday, May 30, 2013. The following observations and input from the field review are provided concerning the location:

- Speed and road curvature are believed to be the primary causes for crashes along the segment.
- No centerline delineation (pavement markers) exists along the study corridor.
- The stop signs, stop bars and edgelines of side streets intersecting the study segment are worn and/or non-existent.
- The intersection of Palmyra Road and Antioch Road is in need of Intersection Action Plan (IAP) treatments.
- The intersection of Vernon Creek Road and Palmyra needs to be realigned into a 90 degree angle.
- Channelization striping is needed in the southeast quadrant of the intersection of Budds Creek Road and Locust Grove Church Road.
- The existing painted island at the intersection of Budds Creek Road and Buck Smith Road is in need of channelization striping.
- Some locations along the study segment are in need of guardrail repair and extensions.
- Signing around horizontal curves needs to be reevaluated for appropriateness.
- The intersection of Budds Creek Road and State Route 13 is in need of IAP treatments.
- The speed limit along this study segment is 45 MPH.

Specific improvements guidance is found on the attached figures. The total estimated cost of improvements listed in the report is \$353,800. Right-of-way acquisition is not required. A maintenance agreement is required (Montgomery County). A local match is required (\$3,200 – Montgomery County). These improvements will be let to contract.



Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00

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*5/30/13: Looking west on Antioch Road at the intersection of Route 01861 and Antioch Road (L.M. 1.519).*



*5/30/13: Looking south on Route 01861 from the intersection of Route 01861 and Antioch Road. (L.M. 1.519).*

Montgomery County

Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)

L.M. 0.00 – 7.09

Road Safety Audit Review PIN 118469.00

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*5/30/13: Looking east on Palmyra Road at the intersection of Route 01861 and Palmyra Road (L.M. 2.00).*



*5/30/13: Looking west on Route 01861 at the intersection of Route 01861 and Buck Smith Road (L.M.5.228).*



Montgomery County  
 Route 01861 (Ussery Road, Palmyra Road, Vernon Creek Road and Budds Creek Road)  
 L.M. 0.00 – 7.09  
 Road Safety Audit Review PIN 118469.00

## COST DATA SHEET TOTAL PROJECT COST

<b>Route:</b>	<b>Route 01861 (Ussery Rd, Palmyra Rd, Vernon Creek Rd and Budds Creek Rd) L.M. 0.00 to L.M. 7.09</b>			
<b>Description:</b>				
<b>County:</b>	<b>Montgomery County</b>			
<b>Length:</b>	<b>7.09 miles</b>			
<b>Date:</b>	<b>July 19, 2013</b>			
<u>DESCRIPTION</u>	<u>LOCAL</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>TOTAL</u>
Right-of-Way	\$ -	\$ -	\$ -	\$ -
Clearing and Grubbing	\$ -	\$ -	\$ -	\$ -
Earthwork	\$ -	\$ -	\$ -	\$ -
Railroad Crossing or Separation	\$ -	\$ -	\$ -	\$ -
Drainage	\$ -	\$ -	\$ -	\$ -
Utilities	\$ -	\$ -	\$ -	\$ -
Structures	\$ -	\$ -	\$ -	\$ -
Pavement Removal	\$ -	\$ -	\$ -	\$ -
Paving	\$ 3,210	\$ -	\$ 28,890	\$ 32,100
Roadway and Pavement	\$ -	\$ -	\$ -	\$ -
Retaining Walls	\$ -	\$ -	\$ -	\$ -
Topsoil	\$ -	\$ -	\$ -	\$ -
Seeding	\$ -	\$ -	\$ -	\$ -
Sodding	\$ -	\$ -	\$ -	\$ -
Rip-Rap or Slope Protection	\$ -	\$ -	\$ -	\$ -
Fencing	\$ -	\$ -	\$ -	\$ -
Signing <sup>1</sup>			\$ 45,800	\$ 45,800
Pavement Markings <sup>1</sup>			\$ 109,400	\$ 109,400
Lighting <sup>1</sup>			\$ -	\$ -
Signalization <sup>1</sup>			\$ -	\$ -
Guardrail <sup>1</sup>			\$ 44,400	\$ 44,400
Other Construction Items (15%)		\$ -	\$ 34,750	\$ 34,755
Maintenance of Traffic		\$ 1,200	\$ 10,800	\$ 12,000
Mobilization (5%)		\$ 60	\$ 13,860	\$ 13,920
<b>CONSTRUCTION COST (rounded)</b>		<b>\$ 1,260</b>	<b>\$ 291,110</b>	<b>\$ 292,380</b>
Engineering and Contingency		\$ 130	\$ 29,110	\$ 29,240
<b>TOTAL CONSTRUCTION COST</b>		<b>\$ 1,390</b>	<b>\$ 320,220</b>	<b>\$ 321,620</b>
Preliminary Engineering (10%)		\$ 140	\$ 32,020	\$ 32,160
<b>PROJECT COST <sup>2</sup>(rounded)</b>	<b>\$ 3,200</b>	<b>\$ 1,600</b>	<b>\$ 352,200</b>	<b>\$ 353,800</b>

<sup>1</sup> This safety item is 100% eligible and does not require a 10% funding match by the local agency.

<sup>2</sup> For estimating future project costs, a compounded inflation rate of 10% should be applied from the date of this estimate.

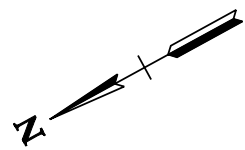




ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 0.00-  
L.M. 0.59  
(FIGURE NO. 1)



0' 200' 400' 600'



TENNESSEE D.O.T. PROJECT PLANNING DIVISION  FILE NO. ---	DRAFT				TYPE	YEAR	COUNTY	FIGURE NO.
	GUIDANCE				HRRR	2013	MONTGOMERY	1A
<p>1. Install one (1) Stop Ahead (W3-1) (36"x36") sign with a 2" strip of yellow retroreflective sheeting mounted on the post facing eastbound traffic on Ussery Road approximately 200 feet west of the intersection of State Route 149 and Ussery Road. (See Figure 14 - Inset 2)</p> <p>2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline approximately 200 feet west of the intersection of State Route 149 and Ussery Road. The proposed striping shall be installed in accordance with the existing striping.</p> <p>3. Remove and replace one (1) existing STOP sign located on Ussery Road at the intersection of State Route 149 and Ussery Road with one (1) STOP (R1-1) (36"x36") sign and one (1) "CROSS TRAFFIC DOES NOT STOP" (W4-4P) (24"x12") plaque mounted below with a 2" strip of red retroreflective sheeting mounted on the post on the south side of Ussery Road, and install a thermoplastic 26' long and 24" wide stop line on Ussery Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p> <p>4. Install two (2) thermoplastic left turn arrow pavement markings in the northbound State Route 149 left turn lane approximately 75 and 200 feet south, respectively, of the intersection of State Route 149 and Route 01861.</p> <p>5. Install enhanced flatline thermoplastic 4" single solid white edgelines, an enhanced flatline thermoplastic 4" double solid yellow centerline, enhanced flatline thermoplastic 4" single solid white lane lines, enhanced flatline thermoplastic 4" single broken white lane lines, and enhanced flatline thermoplastic 12" diagonal yellow transverse channelization markings along State Route 149 approximately 530 feet south of the intersection of State Route 149 and Route 01861. The proposed striping shall be installed in accordance with the existing striping.</p> <p>6. Install one (1) Cross Road (W2-1) (36"x36") sign facing northbound traffic on the east side of State Route 149 approximately 325 feet south of the intersection of State Route 149 and Route 01861.</p> <p>7. Install one (1) Cross Road (W2-1) (36"x36") sign facing southbound traffic on the west side of State Route 149 approximately 325 feet north of the intersection of State Route 149 and Route 01861.</p> <p>8. Install enhanced flatline thermoplastic 4" single solid white edgelines, an enhanced flatline thermoplastic 4" double solid yellow centerline, and enhanced flatline thermoplastic 4" single solid white lane lines, enhanced flatline thermoplastic 4" single broken white lane lines along State Route 149 approximately 530 feet south of the intersection of State Route 149 and Route 01861. The proposed striping shall be installed in accordance with the existing striping.</p> <p>9. Install two (2) thermoplastic left turn arrow pavement markings and two (2) thermoplastic right turn arrow pavement markings in the southbound State Route 149 left and right turn lanes approximately 90 and 200 feet north, respectively, of the intersection of State Route 149 and Route 01861.</p> <p>10. Remove and replace one (1) existing STOP sign located on Route 01861 at the intersection of State Route 149 and Route 01861 with one (1) STOP (R1-1) (36"x36") sign and one (1) "CROSS TRAFFIC DOES NOT STOP" (W4-4P) (24"x12") plaque mounted below with a 2" strip of red retroreflective sheeting mounted on the post on the north side of Route 01861, and install a thermoplastic 20' long and 24" wide stop line on Route 01861. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p> <p>11. Install one (1) thermoplastic word pavement marking (STOP) and six (6) snowplowable, bi-directional white pavement markers spaced at 2 feet across the southbound lane on Route 01861 approximately approximately 25 feet east of the intersection of Route 01861 and State Route 149.</p> <p>12. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 0.00 to log mile 0.59.</p> <p>13. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerlines along Route 01861 from log mile 0.00 to log mile 0.59. The proposed striping shall be installed in accordance with the existing striping.</p> <p>14. Install one (1) Stop Ahead (W3-1) (36"x36") sign with a 2" strip of yellow retroreflective sheeting mounted on the post facing westbound traffic on Route 01861 approximately 200 feet east of the intersection of State Route 149 and Route 01861. (See Figure 14 - Inset 2)</p> <p>15. Install one (1) Stop Ahead (W3-1) (36"x36") sign with a 2" strip of yellow retroreflective sheeting mounted on the post facing eastbound traffic on Route 01861 approximately 200 feet west of the intersection of Route 01861 and Palmyra Road. (See Figure 14 - Inset 2)</p> <p>16. Remove and replace one (1) existing STOP sign located on Route 01861 at the intersection of Route 01861 and Palmyra Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the south side of Route 01861, and install a thermoplastic 20' long and 24" wide stop line on Route 01861. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p> <p>17. Install one (1) Side Road (W2-2) (36"x36") sign facing southbound traffic on the west side of Palmyra Road approximately 175 feet north of the intersection of Route 01861 and Palmyra Road.</p> <p>18. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Palmyra Road approximately 200 feet west of the intersection of Route 01861 and Palmyra Road. The proposed striping shall be installed in accordance with the existing striping.</p> <p>19. Install one (1) Side Road (W2-1) (36"x36") sign facing northbound traffic on the east side of Route 01861 approximately 175 feet south of the intersection of Route 01861 and Palmyra Road.</p> <p>20. Remove and replace one (1) existing Speed Limit sign located approximately 555 feet south of the intersection of Route 01861 and Palmyra Road with one (1) (45 MPH) Speed Limit (R2-1) (24"x30") sign facing southbound traffic on the west side of Route 01861.</p> <p>21. Remove and replace one (1) existing Side Road sign approximately 740 feet north of the intersection of Route 01861 and Byard Road with one (1) Side Road (W2-2) (36"x36") sign facing southbound traffic on the west side of Route 01861.</p> <p>22. Remove and replace one (1) existing STOP sign located on Byard Road at the intersection of Route 01861 and Byard Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the north side of Byard Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p> <p>23. Remove, replace and relocate one (1) existing Winding Road sign approximately 400 feet south of the intersection of Route 01861 and Byard Road with one (1) Winding Road (W1-5) (36"x36") sign and one (1) "NEXT 2 MILES" (W7-3aP) (24"x18") plaque mounted below facing southbound traffic on the west side of Route 01861 approximately 80 feet south of the intersection of Route 01861 and Byard Road.</p> <p>24. Remove one (1) existing Winding Road sign located approximately 80 feet south of the intersection of Route 01861 and Byard Road.</p> <p>25. Install one (1) Curve (W1-2L) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861 approximately 245 feet south of the intersection of Route 01861 and Byard Road.</p> <p>26. Remove, replace and relocate one (1) existing Side Road sign approximately 415 feet south of the intersection of Route 01861 and Byard Road with one (1) Side Road (W2-2) (36"x36") sign facing northbound traffic on the east side of Route 01861 approximately 175 feet south of the intersection of Route 01861 and Byard Road.</p> <p>27. Install three (3) sets of double sided Chevron Alignment signs [six (6) total - three (3) W1-8L and three (3) W1-8R] (18"x24") mounted on adjustable brackets with a 2" strip of yellow retroreflective sheeting mounted on the posts at 80 foot spacing for 160 feet along the east side of the horizontal curve approximately 505 feet south of the intersection of Route 01861 and Byard Road. (See Figure 14 - Inset 3)</p> <p>28. Install one (1) Combination Horizontal Alignment/Intersection (W1-10R mod.) (36"x36") sign facing southbound traffic on the west side of Route 01861 approximately 835 feet south of the intersection of Route 01861 and Byard Road.</p> <p>29. Install one (1) Curve (W1-2R) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861 approximately 910 feet south of the intersection of Route 01861 and Byard Road.</p> <p><b>**All warning signs shall be fluorescent yellow material.**</b></p>					STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION			
ROAD SAFETY AUDIT REPORT				ROUTE 01861 L.M. 0.00 - L.M. 0.59 (FIGURE NO. 1A)				
ROUTE 01861 FROM SR 149 TO SR 13 L.M. 0.00 - L.M. 7.09 MONTGOMERY COUNTY								

7/18/2013  
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GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 0.59 to log mile 1.18.
2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 0.59 to log mile 1.18. The proposed striping shall be installed in accordance with the existing striping.
3. Remove and replace one (1) existing STOP sign located on Hutcheson Lane at the intersection of Route 01861 and Hutcheson Lane with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the south side of Hutcheson Lane, and install a thermoplastic 15' long and 24" wide stop line on Hutcheson Lane. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)
4. Install one (1) Combination Horizontal Alignment/Intersection (W1-10L mod.) (36"x36") sign facing northbound traffic on the east side of Route 01861 approximately 335 feet south of the intersection of Route 01861 and Hutcheson Lane.
5. Remove one (1) existing Winding Road sign and one (1) (35 MPH) Advisory Speed plaque mounted below located approximately 2,205 feet south of the intersection of Route 01861 and Hutcheson Lane.
6. Remove one (1) existing Winding Road sign located approximately 2,255 feet south of the intersection of Route 01861 and Hutcheson Lane.
7. Install one (1) Curve (W1-2R) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861 approximately 2,340 feet south of the intersection of Route 01861 and Hutcheson Lane.
8. Install four (4) sets of double sided Chevron Alignment signs [eight (8) total - four (4) W1-8L and four (4) W1-8R] (18"x24") mounted on adjustable brackets with a 2" strip of yellow retroreflective sheeting mounted on the posts at 80 foot spacing for 240 feet along the east side of the horizontal curve approximately 2,620 feet south of the intersection of Route 01861 and Hutcheson Lane. (See Figure 14 - Inset 3)
- \*\*All warning signs shall be fluorescent yellow material.\*\*

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	2



ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

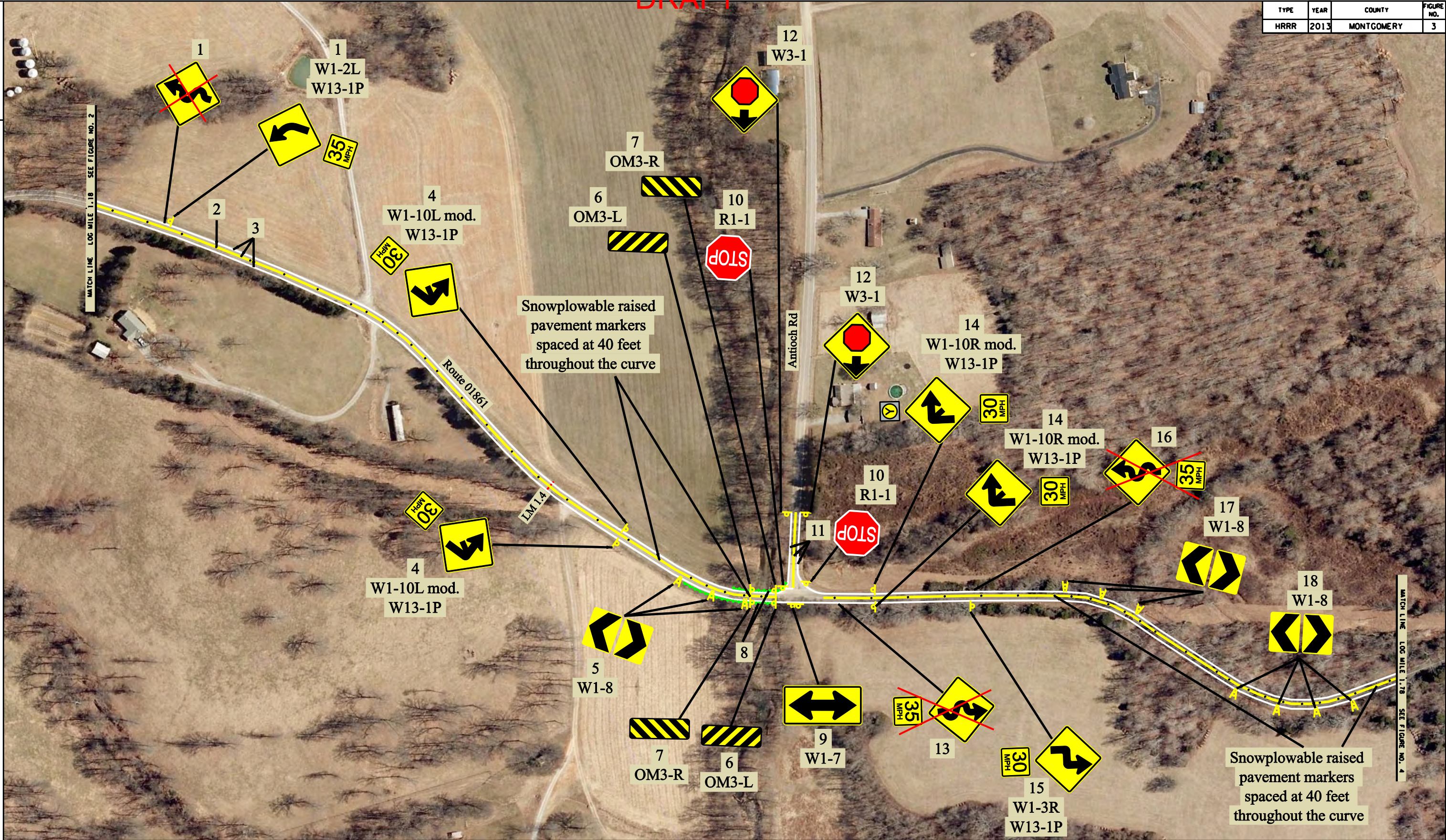
ROUTE 01861  
L.M. 0.59-  
L.M. 1.18  
(FIGURE NO. 2)



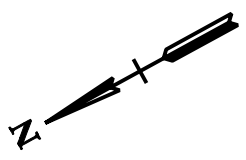
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TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	3

TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---



ROAD SAFETY AUDIT REPORT  
ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION
ROUTE 01861 L.M. 1.18- L.M. 1.78 (FIGURE NO. 3)



TENNESSEE D.O.T. PROJECT PLANNING DIVISION FILE NO. ---			<table><tr><td>TYPE</td><td>YEAR</td><td>COUNTY</td><td>FIGURE NO.</td></tr><tr><td>HRRR</td><td>2013</td><td>MONTGOMERY</td><td>3A</td></tr></table>		TYPE	YEAR	COUNTY	FIGURE NO.	HRRR	2013	MONTGOMERY	3A
TYPE	YEAR	COUNTY	FIGURE NO.									
HRRR	2013	MONTGOMERY	3A									
<div><div>GUIDANCE</div><div><p>1. Remove and replace one (1) existing Winding Road sign located approximately 1,620 feet north of the intersection of Route 01861 and Antioch Road with one (1) Curve (W1-2L) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861.</p><p>2. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 1.18 to log mile 1.78.</p><p>3. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 1.18 to log mile 1.78. The proposed striping shall be installed in accordance with the existing striping.</p><p>4. Install two (2) Combination Horizontal Alignment/Intersection (W1-10L mod.) (36"x36") signs and two (2) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaques mounted below facing southbound traffic on either side of Route 01861 approximately 410 feet north of the intersection of Route 01861 and Antioch Road.</p><p>5. Install three (3) sets of double sided Chevron Alignment signs [six (6) total - three (3) W1-8L and three (3) W1-8R] (18"x24") mounted on adjustable brackets with yellow retroreflective sheeting mounted on the posts at 80 foot spacing for 160 feet along the west side of the horizontal curve approximately 110 feet north of the intersection of Route 01861 and Antioch Road. (See Figure 14 - Inset 3)</p><p>6. Install two (2) Object Marker (OM3-L) (12"x36") signs on the northeast and southwest bridge ends located approximately 65 feet north of the intersection of Route 01861 and Antioch Road facing southbound and northbound traffic, respectively, on either side of Route 01861.</p><p>7. Install two (2) Object Marker (OM3-R) (12"x36") signs on the southeast and northwest bridge ends located approximately 65 feet north of the intersection of Route 01861 and Antioch Road facing northbound and southbound traffic, respectively, on either side of Route 01861.</p><p>8. Install white continuous guardrail delineation enhancement to the existing guardrail on either side of Route 01861 beginning at the intersection of Route 01861 and Antioch Road and extending 240 feet north.</p><p>9. Install one (1) Two-Direction Large Arrow (W1-7) (48"x24") sign with 2" yellow retroreflective sheeting mounted on the posts facing westbound traffic directly across from and perpendicular to Antioch Road. (See Figure 14 - Inset 4)</p><p>10. Remove and replace one (1) existing STOP sign located on Antioch Road at the intersection of Route 01861 and Antioch Road with two (2) STOP (R1-1) (36"x36") signs with a 2" strip of red retroreflective sheeting mounted on the posts on either side of Antioch Road, and install a thermoplastic 18' long and 24" wide stop line on Antioch Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p><p>11. Install enhanced flatline thermoplastic 4" single solid white edgelines, an enhanced flatline thermoplastic 4" double solid yellow centerline approximately 175 feet east of the intersection of Route 01861 and Antioch Road. The proposed striping shall be installed in accordance with the existing striping.</p><p>12. Install two (2) Stop Ahead (W3-1) (36"x36") signs with a 2" strip of yellow retroreflective sheeting mounted on the posts facing westbound traffic on Antioch Road approximately 175 feet east of the intersection of Route 01861 and Antioch Road. (See Figure 14 - Inset 2)</p><p>13. Remove one (1) existing Winding Road sign and one (1) (35 MPH) Advisory Speed plaque mounted below located approximately 95 feet south of the intersection of Route 01861 and Antioch Road.</p><p>14. Install two (2) Combination Horizontal Alignment/Intersection (W1-10R mod.) (36"x36") signs and two (2) (30 MPH) Advisory Speed (W13-1P) (18"x18") plaques mounted below with one (1) solar powered flashing yellow beacon mounted above the sign on the east side of Route 01861 facing northbound traffic on either side of Route 01861 approximately 175 feet south of the intersection of Route 01861 and Antioch Road. (See Standard Drawing T-S-24 - Details of Sign with Solar Flashing Assembly)</p><p>15. Install one (1) Reverse Turn (W1-3R) (36"x36") sign and one (1) (30 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861 approximately 385 feet south of the intersection of Route 01861 and Antioch Road.</p><p>16. Remove one (1) existing Winding Road sign and one (1) (35 MPH) Advisory Speed plaque mounted below located approximately 395 feet south of the intersection of Route 01861 and Antioch Road.</p><p>17. Install three (3) sets of double sided Chevron Alignment signs [six (6) total - three (3) W1-8L and three (3) W1-8R] (18"x24") mounted on adjustable brackets with a 2" strip of yellow retroreflective sheeting mounted on the posts at 80 foot spacing for 160 feet along the east side of the horizontal curve approximately 590 feet south of the intersection of Route 01861 and Antioch Road. (See Figure 14 - Inset 3)</p><p>18. Install four (4) sets of double sided Chevron Alignment signs [eight (8) total - four (4) W1-8L and four (4) W1-8R] (18"x24") mounted on adjustable brackets with a 2" strip of yellow retroreflective sheeting mounted on the posts at 80 foot spacing for 160 feet along the west side of the horizontal curve approximately 1,020 feet south of the intersection of Route 01861 and Antioch Road. (See Figure 14 - Inset 3)</p><p><b>**All warning signs shall be fluorescent yellow material.**</b></p></div></div> <tr><td colspan="3"><div><div>ROAD SAFETY AUDIT REPORT</div><div>ROUTE 01861 FROM SR 149 TO SR 13 L.M. 0.00 - L.M. 7.09 MONTGOMERY COUNTY</div></div></td><td><div><div>STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION</div><div>ROUTE 01861 L.M. 1.18- L.M. 1.78 (FIGURE NO. 3A)</div></div></td></tr>			<div><div>ROAD SAFETY AUDIT REPORT</div><div>ROUTE 01861 FROM SR 149 TO SR 13 L.M. 0.00 - L.M. 7.09 MONTGOMERY COUNTY</div></div>			<div><div>STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION</div><div>ROUTE 01861 L.M. 1.18- L.M. 1.78 (FIGURE NO. 3A)</div></div>						
<div><div>ROAD SAFETY AUDIT REPORT</div><div>ROUTE 01861 FROM SR 149 TO SR 13 L.M. 0.00 - L.M. 7.09 MONTGOMERY COUNTY</div></div>			<div><div>STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION</div><div>ROUTE 01861 L.M. 1.18- L.M. 1.78 (FIGURE NO. 3A)</div></div>									



TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	4

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# ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 1.78-  
L.M. 2.35  
(FIGURE NO. 4)



TENNESSEE D.O.T.

PROJECT PLANNING DIVISION

FILE NO. ---

DRAFT

GUIDANCE

1. Install one (1) Reverse Turn (W1-3R) (36"x36") sign and one (1) (30 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861 approximately 1,145 feet north of the intersection of Route 01861 and Palmyra Road.

2. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 1.78 to log mile 2.35.

3. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 1.78 to log mile 2.35. The proposed striping shall be installed in accordance with the existing striping.

4. Install one (1) Turn (W1-1R) (36"x36") sign and one (1) (30 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861 approximately 940 feet north of the intersection of Route 01861 and Palmyra Road.

5. Install three (3) sets of double sided Chevron Alignment signs [six (6) total - three (3) W1-8L and three (3) W1-8R] (18"x24") mounted on adjustable brackets with a 2" strip of yellow retroreflective sheeting mounted on the posts at 80 foot spacing for 160 feet along the east side of the horizontal curve approximately 570 feet north of the intersection of Route 01861 and Palmyra Road. (See Figure 14 - Inset 3)

6. Install 6" yellow roadside obstacle delineation strips around the existing utility pole on the east side of Route 01861 approximately 650 feet north of the intersection of Route 01861 and Palmyra Road. (See Figure 14 - Inset 5)

7. Remove one (1) Turn sign and one (1) (20 MPH) Advisory Speed plaque mounted below on the west side of Route 01861 located approximately 415 feet north of the intersection of Route 01861 and Palmyra Road.

8. Remove and replace one (1) existing Winding Road sign and one (1) (35 MPH) Advisory Speed plaque mounted below approximately 382 feet north of the intersection of Route 01861 and Palmyra Road with one (1) Turn (W1-1L) (36"x36") sign and one (1) (30 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861.

9. Install one (1) Offset Side Roads (W2-7R) (36"x36") sign and one (1) "Palmyra Rd" Destination (D1-1) (36"x18") sign mounted below facing southbound traffic on the west side of Route 01861 approximately 175 feet north of the intersection of Route 01861 and Palmyra Road.

10. Install one (1) Two-Direction Large Arrow (W1-7) (48"x24") sign with a 2" strip of yellow retroreflective sheeting mounted on the posts facing eastbound traffic directly across from and perpendicular to Palmyra Road. (See Figure 14 - Inset 4)

11. Scarify and sod approximately 11,140 square feet of the existing paved area on Palmyra Road at the intersection of Route 01861 and Palmyra Road.

12. Cold plane and repave approximately 1,440 square feet of pavement and construct approximately 2,640 square feet of roadway with full depth pavement to realign the intersection of Route 01861 and Palmyra Road to form a 90 degree angle with the centerline of Palmrya Road intersecting Route 01861 approximately 450 feet north of the intersection of Route 01861 and Attaway Road. (See Figure 15 - Paving Details)

13. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along the proposed alignment of Palmyra Road approximately 170 feet west of the intersection of Route 01861 and Palmyra Road.

14. Install one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the south side of the proposed alignment of Palmyra Road, and install a thermoplastic 12' long and 24" wide stop line on Route 01861.. (See Figure 14 - Inset 1)

15. Install one (1) Stop Ahead (W3-1) (36"x36") sign with a 2" strip of yellow retroreflective sheeting mounted on the post facing eastbound traffic on Palmyra Road approximately 175 feet west of the intersection of Route 01861 and Palmyra Road. (See Figure 14 - Inset 2)

16. Remove and replace one (1) Reverse Curve sign located approximately 235 feet south of the intersection of Route 01861 and Palmyra Road with one (1) Reverse Curve (W1-4R) (36"x36") sign facing southbound traffic on the west side of Route 01861.

17. Remove and replace one (1) existing STOP sign located on Attaway Road at the intersection of Route 01861 and Attaway Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the north side of Attaway Road, and install a thermoplastic 20' long and 24" wide stop line on Attaway Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)

18. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along Attaway Road approximately 100 feet east of the intersection of Route 01861 and Attaway Road.

19. Remove and replace one (1) existing Speed Limit sign located approximately 40 feet south of the intersection of Route 01861 and Attaway Road with one (1) (45 MPH) Speed Limit (R2-1) (24"x30") sign facing southbound traffic on the west side of Route 01861.

20. Install one (1) Offset Side Roads (W2-7R) (36"x36") sign and one (1) "Palmyra Rd" Destination (D1-1) (36"x18") sign mounted below facing northbound traffic on the east side of Route 01861 approximately 175 feet south of the intersection of Route 01861 and Attaway Road.

21. Remove one (1) Curve sign on the west side of Route 01861 located approximately 1,095 feet south of the intersection of Route 01861 and Attaway Road.

22. Remove and replace one (1) Reverse Curve sign located approximately 1,150 feet south of the intersection of Route 01861 and Attaway Road with one (1) Reverse Curve (W1-4R) (36"x36") sign facing northbound traffic on the east side of Route 01861.

**\*\*All warning signs shall be fluorescent yellow material.\*\***

ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 1.78-  
L.M. 2.35  
(FIGURE NO. 4A)

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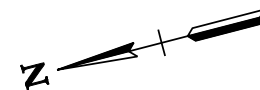


A horizontal scale bar with alternating black and white segments. Above the bar, the markings 0', 200', 400', and 600' are printed. The bar is divided into four equal segments, each representing 150 feet, with the final segment being slightly shorter to reach 600 feet.

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 2.35-  
L.M. 2.92  
(FIGURE NO. 5)





TENNESSEE D.O.T. PROJECT PLANNING DIVISION FILE NO. ---			<table><tr><td>TYPE</td><td>YEAR</td><td>COUNTY</td><td>FIGURE NO.</td></tr><tr><td>HRRR</td><td>2013</td><td>MONTGOMERY</td><td>5A</td></tr></table>		TYPE	YEAR	COUNTY	FIGURE NO.	HRRR	2013	MONTGOMERY	5A
TYPE	YEAR	COUNTY	FIGURE NO.									
HRRR	2013	MONTGOMERY	5A									
<div><div>7/19/2013 \\Fileserver\file_server\PROJECTS\2013\13-0501\DOT PSAR Rt. 01861\Usseery Rd.1 fr. SR-149 to SR-13, Montgomery County\Figures\005A.sht</div><div><div>GUIDANCE</div><div><p>1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 2.35 to log mile 2.92.</p><p>2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 2.35 to log mile 2.92. The proposed striping shall be installed in accordance with the existing striping.</p><p>3. Remove and replace one (1) existing Curve sign approximately 1,000 feet north of the intersection of Route 01861 and Vernon Creek Road with one (1) Winding Road (W1-5) (36"x36") sign and one (1) NEXT 2 MILES (W7-3aP) (24"x18") plaque mounted below facing northbound traffic on the east side of Route 01861.</p><p>4. Remove and replace one (1) existing Curve sign approximately 200 feet north of the intersection of Route 01861 and Vernon Creek Road with one (1) Side Road (W2-2) (36"x36") sign facing southbound traffic on the west side of Route 01861.</p><p>5. Install one (1) Two-Direction Large Arrow (W1-7) (48"x24") sign with a 2" strip of yellow retroreflective sheeting mounted on the posts facing northbound traffic directly across from and perpendicular to Route 01861. (See Figure 14 - Inset 4)</p><p>6. Install one (1) Side Road (W2-2) (36"x36") sign facing northbound traffic on the east side of Route 01861 approximately 175 feet south of the intersection of Route 01861 and Vernon Creek Road.</p><p>7. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along Vernon Creek Road approximately 200 feet south of the intersection of Route 01861 and Vernon Creek Road.</p><p>8. Remove and replace one (1) existing STOP sign located on Route 01861 at the intersection of Route 01861 and Vernon Creek Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the south side of Route 01861, and install a thermoplastic 25' long and 24" wide stop line on Attaway Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p><p>9. Remove and replace one (1) existing Curve sign approximately 40 feet south of the intersection of Route 01861 and Vernon Creek Road with one (1) Curve (W1-2L) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861.</p><p>10. Install one (1) Stop Ahead (W3-1) (36"x36") sign with a 2" strip of yellow retroreflective sheeting mounted on the post facing northbound traffic on the east side of Route 01861 approximately 280 feet south of the intersection of Route 01861 and Vernon Creek Road. (See Figure 14 - Inset 2)</p><p>11. Install white continuous delineation enhancement to the existing guardrail and barrier wall on either side of the bridge located on Route 01861 approximately 315 feet south of the intersection of Route 01861 and Vernon Creek Road.</p><p>12. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along Goolinghom Road approximately 50 feet west of the intersection of Route 01861 and Goolinghom Road.</p><p>13. Remove and replace one (1) existing STOP sign located on Goolinghom Road at the intersection of Route 01861 and Goolinghom Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the south side of Goolinghom Road, and install a thermoplastic 16' long and 24" wide stop line on Goolinghom Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)</p><p>14. Remove and replace one (1) existing Curve sign located approximately 65 feet south of the intersection of Route 01861 and Goolinghom Road with one (1) Curve (W1-2R) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861.</p><p><b>**All warning signs shall be fluorescent yellow material.**</b></p></div></div></div>			<div><div>STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION</div><div>ROUTE 01861 L.M. 2.35- L.M. 2.92 (FIGURE NO. 5A)</div></div>									



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GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 2.92 to log mile 3.46.
2. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 2.92 to log mile 3.46. The proposed striping shall be installed in accordance with the existing striping.
3. Install one (1) Curve (W1-2R) (36"x36") sign facing southbound traffic on the west side of Route 01861 approximately 3,025 feet south of the intersection of Route 01861 and Goolinghom Road.
- \*\*All warning signs shall be fluorescent yellow material.\*\*

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	6



ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 2.92-  
L.M. 3.46  
(FIGURE NO. 6)



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TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	7



GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 3.46 to log mile 4.02.
  2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 3.46 to log mile 4.02. The proposed striping shall be installed in accordance with the existing striping.
  3. Install one (1) Curve (W1-2L) (36"x36") sign facing northbound traffic on the east side of Route 01861 approximately 1,550 feet north of the intersection of Route 01861 and Locust Grove Church Road.
  4. Remove and replace one (1) existing Side Road sign approximately 350 feet north of the intersection of Route 01861 and Locust Grove Church Road with one (1) Combination Horizontal Alignment/Intersection (W1-10cR) (36"x36") sign facing southbound traffic on the west side of Route 01861.
  5. Install white continuous delineation enhancement to the existing guardrail and barrier wall on either side of the bridge located on Route 01861 beginning approximately 275 feet north and extending approximately 120 feet south of the intersection of Route 01861 and Locust Grove Church Road.
  6. Remove and replace one (1) existing STOP sign located on Locust Grove Church Road at the intersection of Route 01861 and Locust Grove Church Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the south side of Route 01861, and install a thermoplastic 15' long and 24" wide stop line on Locust Grove Church Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)
  7. Install enhanced flatline thermoplastic 12" diagonal white channelization lines within the southeast quadrant of the intersection of Route 01861 and Locust Grove Church Road. The proposed striping shall be installed in accordance with the existing striping.
  8. Remove, replace and relocate three (3) Chevron Alignment signs on the east side of the horizontal curve on Route 01861 approximately 40 feet south of the intersection of Route 01861 and Locust Grove Church Road with two (2) One-Direction Large Arrow (W1-6) (48"x24") signs with 2" strips of yellow retroreflective sheeting mounted on the posts facing northbound and southbound traffic, respectively, approximately 105 feet south of the intersection of Route 01861 and Locust Grove Church Road. (See Figure 14 - Inset 6)
- \*\*All warning signs shall be fluorescent yellow material.\*\***



ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 3.46-  
L.M. 4.02  
(FIGURE NO. 7)



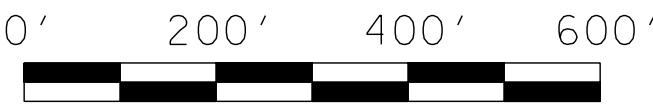
TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	8



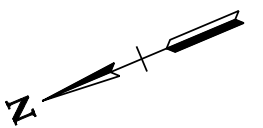
GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 4.02 to log mile 4.57.
  2. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 4.02 to log mile 4.57. The proposed striping shall be installed in accordance with the existing striping.
  3. Remove and replace one (1) existing Side Road sign approximately 700 feet south of the intersection of Route 01861 and Locust Grove Church Road with one (1) Combination Horizontal Alignment/Intersection (W1-10bL) (36"x36") sign facing northbound traffic on the east side of Route 01861.
- \*\*All warning signs shall be fluorescent yellow material.\*\***



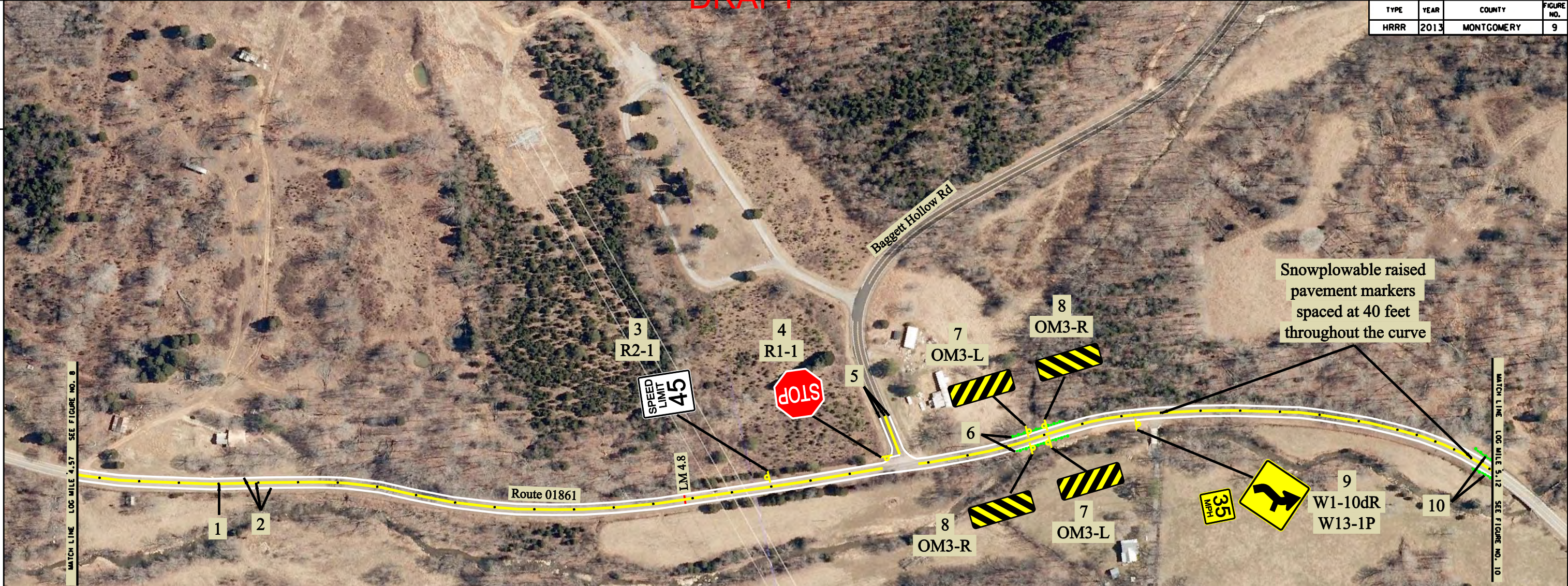
ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION
ROUTE 01861 L.M. 4.02- L.M. 4.57 (FIGURE NO. 8)





GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 4.57 to log mile 5.12.
  2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 4.57 to log mile 5.12. The proposed striping shall be installed in accordance with the existing striping.
  3. Remove and replace one (1) existing Speed Limit sign approximately 270 feet north of the intersection of Route 01861 and Bagget Hollow Road with one (1) (45 MPH) Speed Limit (R1-2) (24"x30") sign facing northbound traffic on the east side of Route 01861.
  4. Remove and replace one (1) existing STOP sign located on Bagget Hollow Road at the intersection of Route 01861 and Bagget Hollow Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post on the north side of Bagget Hollow Road, and install a thermoplastic 20' long and 24" wide stop line on Bagget Hollow Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)
  5. Install enhanced flatline thermoplastic 4" single solid white edgelines and enhanced flatline thermoplastic 4" double solid yellow centerline along Bagget Hollow Road approximately 75 feet east of the intersection of Route 01861 and Bagget Hollow Road.
  6. Remove, replace and extend the existing guardrail on either side of the bridge on Route 01861 beginning approximately 251 feet south of the intersection of Route 01861 and Bagget Hollow Road and extending approximately 70 feet south with Type 2 guardrail and white continuous delineation enhancement mounted on the proposed guardrail and existing barrier wall and install four (4) Type 21 guardrail terminals on the approach ends of the guardrail beginning approximately 200 feet south of the intersection of Route 01861 and Bagget Hollow Road and extending approximately 120 feet south. (See TDOT Standard Drawing S-GR-11, 12, 13, 13A, 14, 26, 27, and 28)
  7. Install two (2) Object Markers (OM3-L) (12"x36") on the northeast and southwest bridge ends of the bridge located approximately 230 feet south of the intersection of Route 01861 and Bagget Hollow Road.
  8. Install two (2) Object Markers (OM3-R) (12"x36") on the northwest and southeast bridge ends of the bridge located approximately 230 feet south of the intersection of Route 01861 and Bagget Hollow Road.
  9. Install one (1) Combination Horizontal Alignment/Intersection (W1-10dR) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861 approximately 482 feet south of the intersection of Route 01861 and Bagget Hollow Road.
  10. Install white continuous delineation enhancement to the existing guardrail and barrier wall on either side of the bridge located on Route 01861 beginning approximately 1,180 feet south of the intersection of Route 01861 and Bagget Hollow Road and extending approximately 185 feet south. (See Figure 10 - Guidance #1)
- \*\*All warning signs shall be fluorescent yellow material.\*\***



ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY





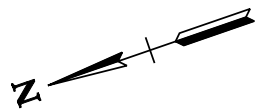
TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	10

TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---

7/19/2013  
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ROAD SAFETY AUDIT REPORT  
ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION
ROUTE 01861 L.M. 5.12- L.M. 5.68 (FIGURE NO. 10)



GUIDANCE

1. Install white continuous delineation enhancement to the existing guardrail and barrier wall on either side of the bridge located on Route 01861 beginning approximately 1,180 feet south of the intersection of Route 01861 and Bagget Hollow Road and extending approximately 185 feet south. (See Figure 9 - Guidance #10)
  2. Install two (2) Object Markers (OM3-L) (12"x36") on the northeast and southwest bridge ends of the bridge located approximately 265 feet north of the northernmost intersection of Route 01861 and Buck Smith Road.
  3. Install two (2) Object Markers (OM3-R) (12"x36") on the northwest and southeast bridge ends of the bridge located approximately 265 feet north of the northernmost intersection of Route 01861 and Buck Smith Road.
  4. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 5.12 to log mile 5.68.
  5. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 5.12 to log mile 5.68. The proposed striping shall be installed in accordance with the existing striping.
  6. Remove three (3) existing sets of double sided Chevron Alignment signs located on the west side of the horizontal curve on Route 01861 in the northwest quadrant of the northernmost intersection of Route 01861 and Buck Smith Road and in the southwest quadrant of the southernmost intersection of Route 01861 and Buck Smith Road.
  7. Install one (1) One-Direction Large Arrow (W1-6) (48"x24") sign with 2" strips of yellow retroreflective sheeting mounted on the posts facing northbound traffic on Route 01861 in the northwest quadrant of the northernmost intersection of Route 01861 and Buck Smith Road. (See Figure 14 - Inset 6)
  8. Remove and replace one (1) existing STOP sign located on Buck Smith Road within the channelization island at the northernmost intersection of Route 01861 and Buck Smith Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post facing eastbound traffic on Buck Smith Road, and install a thermoplastic 12' long and 24" wide stop line and four (4) snowplowable, bi-directional white pavement markers on the west side of the stop line on Buck Smith Road. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)
  9. Install enhanced flatline thermoplastic 4" single solid white edgelines, enhanced flatline thermoplastic 4" double solid yellow centerlines approximately 220 feet west of the intersection of Route 01861 and Buck Smith Road. The proposed striping shall be installed in accordance with the existing striping.
  10. Install one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post within the channelization island on Buck Smith Road facing westbound traffic on Buck Smith Road approximately 35 feet west of the southernmost intersection of Route 01861 and Buck Smith Road, and install a thermoplastic 10' long and 24" wide stop line on Buck Smith Road. (See Figure 14 - Inset 1)
  11. Install one (1) One-Direction Large Arrow (W1-6) (48"x24") sign with 2" strips of yellow retroreflective sheeting mounted on the posts facing southbound traffic on Route 01861 in the southwest quadrant of the southernmost intersection of Route 01861 and Buck Smith Road. (See Figure 14 - Inset 6)
  12. Remove and replace one (1) existing STOP sign located on Buck Smith Road at the southernmost intersection of Route 01861 and Buck Smith Road with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post facing eastbound traffic on Buck Smith Road, and install a thermoplastic 10' long and 24" wide stop line on Buck Smith Road. (See Figure 14 - Inset 1)
  13. Remove, replace and relocate one (1) existing Reverse Curve sign located approximately 920 feet south of the southernmost intersection of Route 01861 and Buck Smith Road with one (1) Combination Horizontal Alignment/Intersection (W1-10dR) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861 approximately 375 feet south of the southernmost intersection of Route 01861 and Buck Smith Road.
  14. Install two (2) Object Markers (OM3-R) (12"x36") on the northwest and southeast bridge ends of the bridge located approximately 420 feet south of the southernmost intersection of Route 01861 and Buck Smith Road.
  15. Install two (2) Object Markers (OM3-L) (12"x36") on the northeast and southwest bridge ends of the bridge located approximately 420 feet south of the southernmost intersection of Route 01861 and Buck Smith Road.
  16. Remove, replace and extend the existing guardrail on either side of the bridge on Route 01861 beginning approximately 420 feet south of the southernmost intersection of Route 01861 and Buck Smith Road and extending approximately 50 feet south with Type 2 guardrail and white continuous delineation enhancement mounted on the proposed guardrail and existing barrier wall and install four (4) Type 21 guardrail terminals on the approach ends of the guardrail beginning approximately 370 feet south of the intersection of Route 01861 and Bagget Hollow Road and extending approximately 200 feet south. (See TDOT Standard Drawing S-GR-11, 12, 13, 13A, 14, 26, 27, and 28)
  17. Install one (1) thermoplastic "STOP" word pavement marking facing eastbound traffic on Buck Smith Road approximately 95 feet west of the northernmost intersection of Route 01861 and Buck Smith Road.
  18. Install enhanced flatline thermoplastic 8" white barrier lines and enhanced flatline thermoplastic 12" diagonal white channelization lines within the existing painted island at the intersection of Route 01861 and Buck Smith Road. The proposed striping shall be installed in accordance with the existing barrier line striping.
  19. Install one (1) thermoplastic "STOP" word pavement marking facing westbound traffic on Buck Smith Road approximately 80 feet west of the southernmost intersection of Route 01861 and Buck Smith Road.
  20. Install one (1) thermoplastic "STOP" word pavement marking facing eastbound traffic on Buck Smith Road approximately 55 feet west of the southernmost intersection of Route 01861 and Buck Smith Road.
  21. Install approximately 610 feet of an enhanced flatline thermoplastic 4" single dotted white edge line and an enhanced flatline thermoplastic 4" double dotted yellow centerline throughout the horizontal curve on Route 01861 at the southernmost intersection of Route 01861 and Buck Smith Road.
- \*\*All warning signs shall be fluorescent yellow material.\*\***

ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 5.12-  
L.M. 5.68  
(FIGURE NO. 10A)



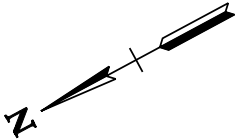


GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 5.68 to log mile 6.24.
  2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 5.68 to log mile 6.24. The proposed striping shall be installed in accordance with the existing striping.
  3. Remove, replace and relocate one (1) existing Reverse Curve sign located approximately 4,400 feet south of the southernmost intersection of Route 01861 and Buck Smith Road with one (1) Curve (W1-2) (36"x36") sign facing southbound traffic on the west side of Route 01861 approximately 4,720 feet south of the southernmost intersection of Route 01861 and Buck Smith Road.
  4. Install two (2) Object Markers (OM3-L) (12"x36") on the northeast and southwest bridge ends of the bridge located approximately 4,580 feet south of the southernmost intersection of Route 01861 and Buck Smith Road.
  5. Install two (2) Object Markers (OM3-R) (12"x36") on the northwest and southeast bridge ends of the bridge located approximately 4,580 feet south of the southernmost intersection of Route 01861 and Buck Smith Road.
  6. Remove and replace the existing guardrail on either side of the bridge on Route 01861 beginning approximately 4,540 feet south of the southernmost intersection of Route 01861 and Buck Smith Road and extending approximately 110 feet south with Type 2 guardrail and white continuous delineation enhancement mounted on the proposed guardrail and existing barrier wall and install four (4) Type 21 guardrail terminals on the approach ends of the guardrail. (See TDOT Standard Drawing S-GR-11, 12, 13, 13A, 14, 26, 27, and 28)
- \*\*All warning signs shall be fluorescent yellow material.\*\***

ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 5.68-  
L.M. 6.24  
(FIGURE NO. 11)



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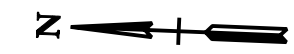
TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	12



# ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION
ROUTE 01861 L.M. 6.24- L.M. 6.87 (FIGURE NO. 12)



TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	12A

GUIDANCE

1. Install one (1) Curve (W1-2L) (48"x24") sign facing northbound traffic on the east side of Route 01861 approximately 2,400 feet north of the intersection of Route 01861 and Hodges Lane.
  2. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 6.24 to log mile 6.87.
  3. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 6.24 to log mile 6.87. The proposed striping shall be installed in accordance with the existing striping.
  4. Remove and replace one (1) existing Turn sign and one (1) (20 MPH) Advisory Speed plaque located approximately 1,800 feet north of the intersection of Route 01861 and Hodges Lane with one (1) Turn (W1-1L) (36"x36") sign and one (1) (20 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861.
  5. Install one (1) One-Direction Large Arrow (W1-6) (48"x24") sign with 2" strips of yellow retroreflective sheeting mounted on the posts facing southbound traffic on the west side of Route 01861 approximately 1,565 feet north of the intersection of Route 01861 and Hodges Lane. (See Figure 14 - Inset 6)
  6. Install one (1) One-Direction Large Arrow (W1-6) (48"x24") sign with 2" strips of yellow retroreflective sheeting mounted on the posts facing northbound traffic on the west side of Route 01861 approximately 1,445 feet north of the intersection of Route 01861 and Hodges Lane. (See Figure 14 - Inset 6)
  7. Remove and replace the existing guardrail on the west side of Route 01861 beginning approximately 1,245 feet north of the intersection of Route 01861 and Hodges Lane and extending approximately 200 feet north with Type 2 guardrail and white continuous delineation enhancement mounted on the proposed guardrail and install two (2) Type 21 guardrail terminals on the approach ends of the guardrail. (See TDOT Standard Drawing S-GR-11, 12, 13, 13A, 14, 26, 27, and 28)
  8. Remove and replace one (1) existing Turn sign and one (1) (20 MPH) Advisory Speed plaque located approximately 1,100 feet north of the intersection of Route 01861 and Hodges Lane with one (1) Turn (W1-1R) (36"x36") sign and one (1) (20 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861.
  9. Remove and replace one (1) existing Curve sign located approximately 270 feet north of the intersection of Route 01861 and Hodges Lane with one (1) Combination Horizontal Alignment/Intersection (W1-10bR) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing southbound traffic on the west side of Route 01861.
  10. Remove and replace one (1) existing STOP sign located on Hodges Lane at the intersection of Route 01861 and Hodges Lane with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post facing westbound traffic on Hodges Lane, and install a thermoplastic 18' long and 24" wide stop line on Hodges Lane. (See Figure 14 - Inset 1)
  11. Install approximately 100 feet of an enhanced flatline thermoplastic 4" single dotted white edgeline and an enhanced flatline thermoplastic 4" double dotted yellow centerline along Route 01861 at the intersection of Route 01861 and Hodges Lane.
  12. Remove and replace one (1) existing Curve sign located approximately 500 feet south of the intersection of Route 01861 and Hodges Lane with one (1) Combination Horizontal Alignment/Intersection (W1-10cL) (36"x36") sign and one (1) (35 MPH) Advisory Speed (W13-1P) (18"x18") plaque mounted below facing northbound traffic on the east side of Route 01861.
- \*\*All warning signs shall be fluorescent yellow material.\*\*

ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
L.M. 6.24-  
L.M. 6.87  
(FIGURE NO. 12A)

\*\*\*\*\*SYTIME\*\*\*\*\*  
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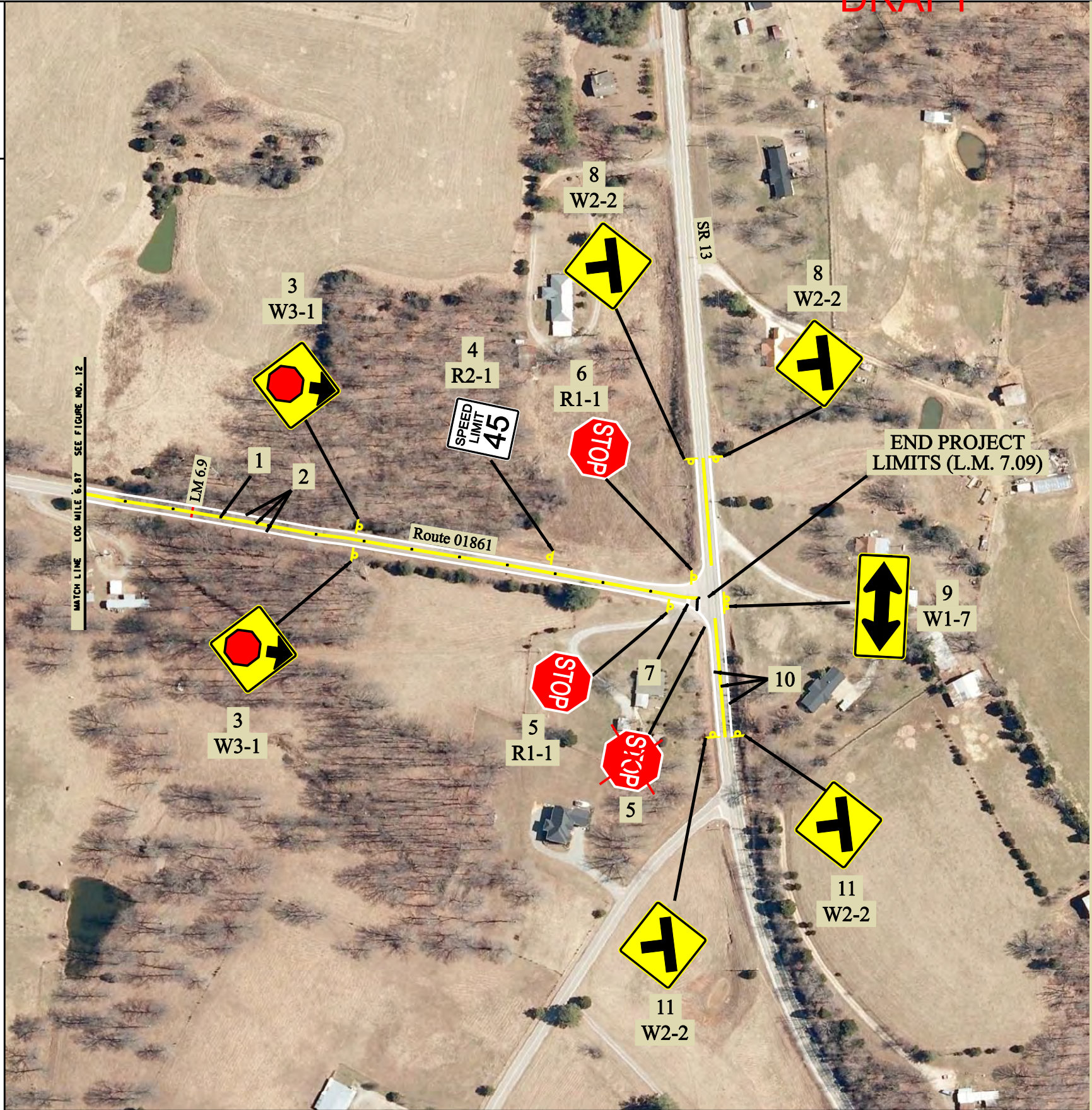
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TENNESSEE D.O.T.
PROJECT PLANNING DIVISION
FILE NO. ---

TYPE	YEAR	COUNTY	FIGURE NO.
HRRR	2013	MONTGOMERY	13

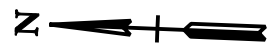
GUIDANCE

1. Install snowplowable, bi-directional yellow pavement markers spaced at 80 feet (excluding the curves where spacing shall be 40 feet) along the centerlines of Route 01861 from log mile 6.87 to log mile 7.09.
  2. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline along Route 01861 from log mile 6.87 to log mile 7.09. The proposed striping shall be installed in accordance with the existing striping.
  3. Remove and replace one (1) existing Stop Ahead sign located on Route 01861 approximately 590 feet north of the intersection of Route 01861 and State Route 13 with two (2) Stop Ahead (W3-1) (36"x36") sign with 2" strips of yellow retroreflective sheeting mounted on the posts facing southbound traffic on either side of Route 01861. (See Figure 14 - Inset 2)
  4. Remove and replace one (1) existing (45 MPH) Speed Limit sign located on Route 01861 approximately 260 feet north of the intersection of Route 01861 and State Route 13 with one (1) (45 MPH) Speed Limit (R2-1) (36"x36") sign facing northbound traffic on the east side of Route 01861.
  5. Remove, replace and relocate one (1) existing STOP sign located on Route 01861 at the intersection of Route 01861 and State Route 13 with one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post facing southbound traffic on the west side of Route 01861, and install a thermoplastic 23' long and 24" wide stop line and eight (8) snowplowable, bi-directional white pavement markers on the north side of the stop line on Route 01861. (See Figure 14 - Inset 1) (Existing Street Name signs to be reused and mounted above the proposed STOP sign.)
  6. Install one (1) STOP (R1-1) (36"x36") sign with a 2" strip of red retroreflective sheeting mounted on the post facing southbound traffic on the east side of Route 01861 at the intersection of Route 01861 and State Route 13.(See Figure 14 - Inset 1)
  7. Install one (1) thermoplastic "STOP" word pavement marking facing southbound traffic on Route 01861 approximately 30 feet north of the intersection of Route 01861 and State Route 01861.
  8. Install two (2) Side Road (W2-2) (36"x36") signs facing westbound traffic on either side of State Route 13 approximately 225 feet east of the intersection of Route 01861 and State Route 13.
  9. Install one (1) Two-Direction Large Arrow (W1-7) (48"x24") sign with 2" strips of yellow retroreflective sheeting mounted on the posts facing southbound traffic directly across from and perpendicular to Route 01861 at the intersection of Route 01861 and State Route 13. (See Figure 14 - Inset 4)
  10. Install enhanced flatline thermoplastic 4" single solid white edgelines and an enhanced flatline thermoplastic 4" double solid yellow centerline approximately 225 feet east and west of the intersection of Route 01861 and State Route 13. The proposed striping shall be installed in accordance with the existing striping.
  11. Install two (2) Side Road (W2-2) (36"x36") signs facing eastbound traffic on either side of State Route 13 approximately 225 feet west of the intersection of Route 01861 and State Route 13.
- \*\*All warning signs shall be fluorescent yellow material.\*\*



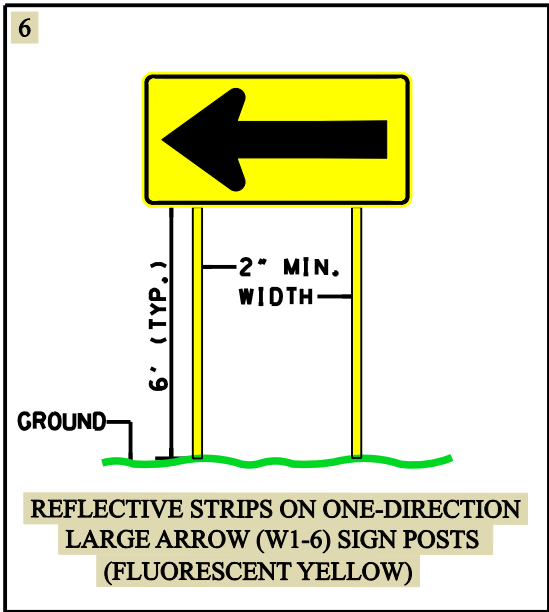
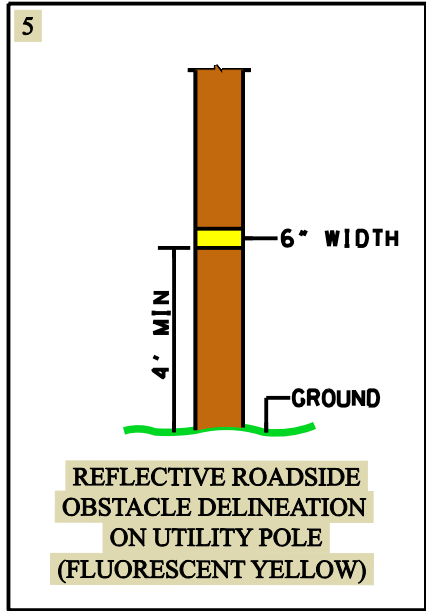
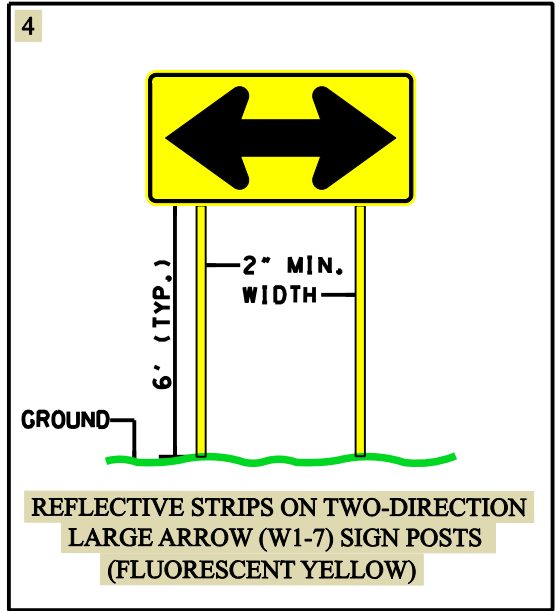
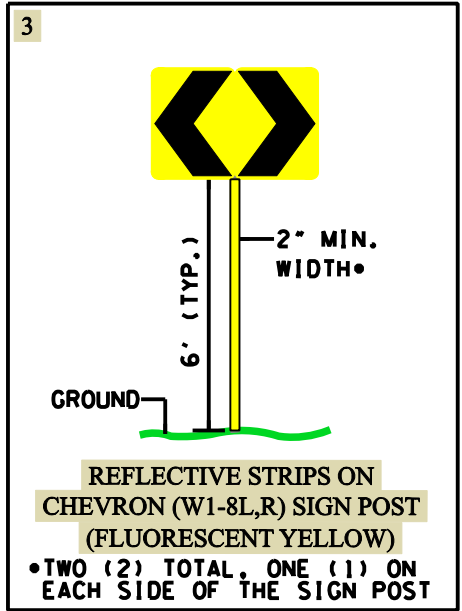
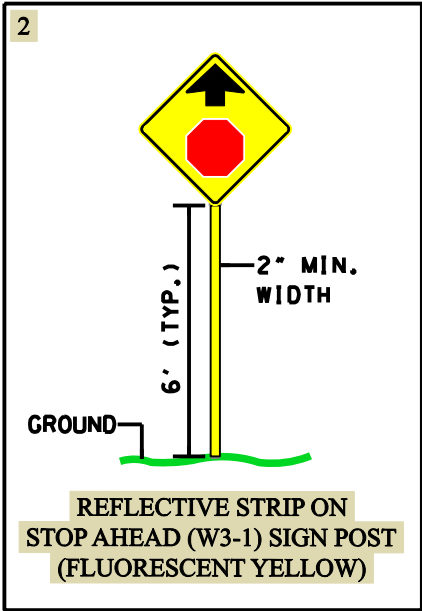
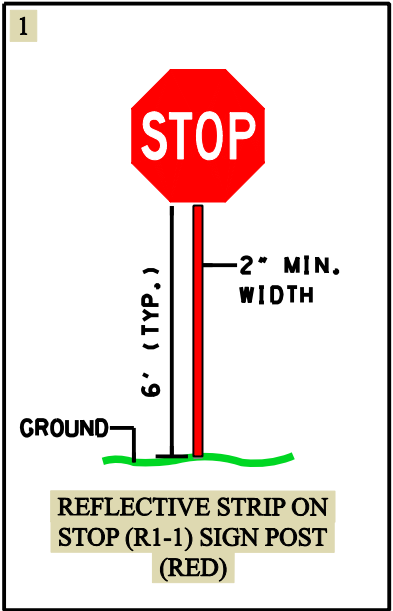
ROAD SAFETY AUDIT REPORT

ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION PROJECT PLANNING DIVISION
ROUTE 01861 L.M. 6.87- L.M. 7.09 (FIGURE NO. 13)





ROAD SAFETY AUDIT REPORT

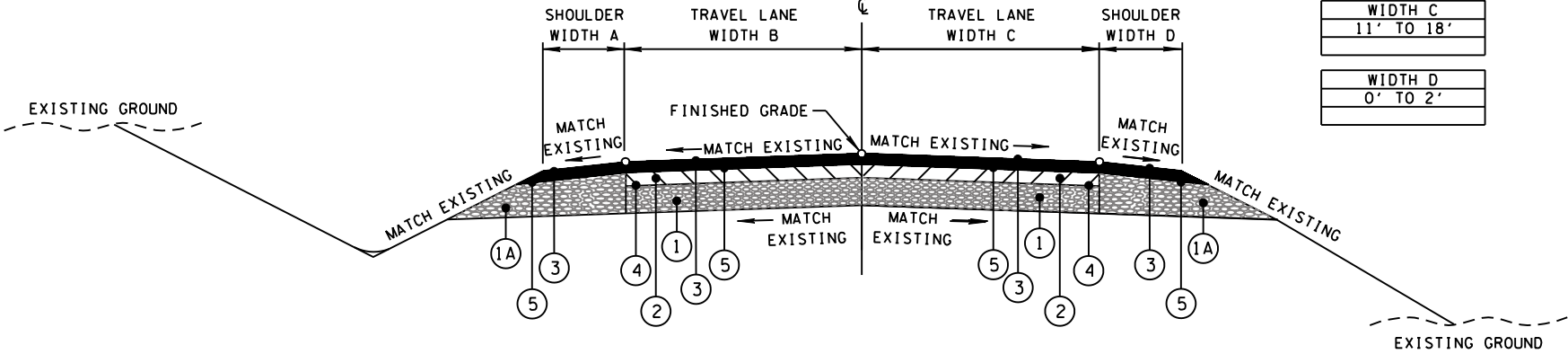
ROUTE 01861 FROM SR 149 TO SR 13  
L.M. 0.00 - L.M. 7.09  
MONTGOMERY COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANNING DIVISION

ROUTE 01861  
DETAILS SHEET  
(FIGURE NO. 14)

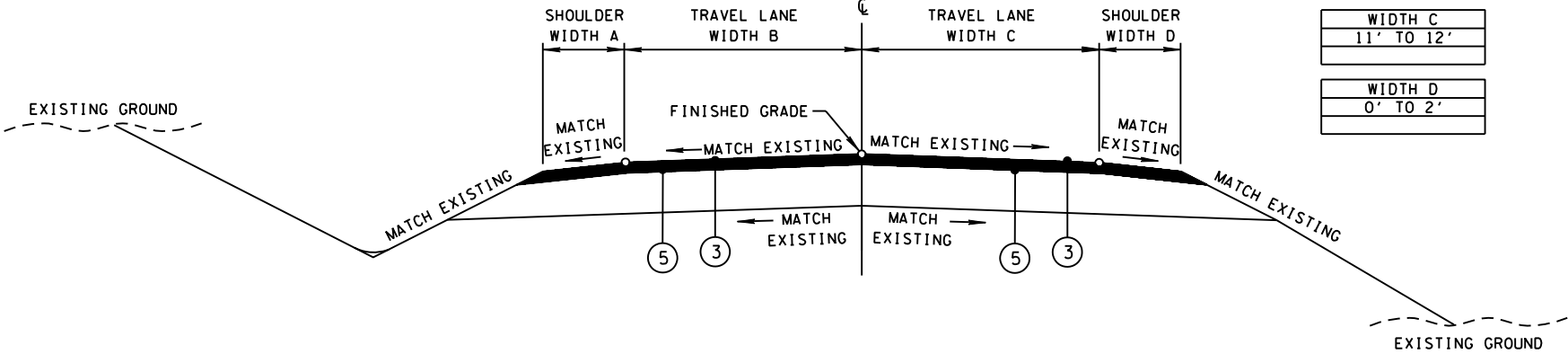


WIDTH A
0' TO 2'
WIDTH B
11' TO 18'
WIDTH C
11' TO 18'
WIDTH D
0' TO 2'



TANGENT SECTION  
FROM THE INTERSECTION OF ROUTE 01861 AND PALMYRA ROAD TO 100 FEET  
WEST OF THE INTERSECTION  
(BASED ON STD. DWG. RD01-TS-1)

WIDTH A
0' TO 2'
WIDTH B
11' TO 12'
WIDTH C
11' TO 12'
WIDTH D
0' TO 2'



TANGENT SECTION  
FROM 100 FEET WEST OF THE INTERSECTION OF ROUTE 01861 AND PALMYRA  
ROAD TO 165 FEET WEST OF THE INTERSECTION  
(BASED ON STD. DWG. RD01-TS-1)

PROPOSED PAVEMENT SCHEDULE	
①	MINERAL AGGREGATE BASE ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D ROADWAY @ 10.00" THICK
①A	MINERAL AGGREGATE BASE ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D SHOULDER @ 11.75" THICK
②	BITUMINOUS BINDER @ 2.00" THICK (APPROX. 226 LBS/S.Y.) ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2
③	BITUMINOUS SURFACE @ 1.25" THICK (APPROX. 132.5 LBS/S.Y.) ITEM NO. 411-01.10 ACS MIX (PG64-22) GRADING D
④	PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 GAL./S.Y. ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LBS./S.Y.
⑤	TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) ITEM NO. 403-02 ASPHALT CEMENT FOR TACK COAT (TC)

\*\*\*\*\*SYTIME\*\*\*\*\*  
\*\*\*\*\*DONSPEC\*\*\*\*\*