

# OAKWOOD I/S IMPROVEMENTS

## KANAWHA COUNTY, WEST VIRGINIA



STATE PROJECT NO: U320-119-15.85 00  
FEDERAL PROJECT NO: NHPP-0119(456)D

**BIBLE CENTER SCHOOL**  
CHARLESTON, WV

**6:30-9:30 PM**

**MONDAY, DECEMBER 16, 2019**

### PURPOSE

This public meeting is a follow up to the previous Oakwood Road Improvements Public Meeting held on September 19, 2019. Information will be provided on proposed improvements at Oakwood Road, Hickory Road and south of Lucado Road.

The workshop is intended to be informal to maximize the interaction between citizens and the project team. We encourage attendees to examine the project maps and displays, discuss the project with the members of our project team who are here today, and complete the enclosed comment sheet.

### WORKSHOP FORMAT

The WVDOH procedures for public workshops are established to ensure meaningful citizen input in the development for proposed projects, in compliance with all applicable regulations and requirements. This Public Information Workshop is from 6:30 pm to 9:30 pm and there will be **no formal presentation.**



#### REGISTRATION

1. **Print your name and address on the registration sheet. Additional copies of this handout and the comment sheet are available at the registration table**
2. **Comments are welcome as you visit the displays around the room**
3. **Completed comment sheets can be:**
  - **PLACED** in the Comment Box
  - **RETURNED** to any WVDOH representative at the meeting
  - **MAILED** to the WVDOH at the address on the back of this handout



#### ENVIRONMENTAL STUDIES

Representatives from the WVDOH are available to discuss the environmental study process. Maps depicting the proposed project improvements are available to view.

*This meeting complies with the public involvement requirements of the National Environmental Policy Act of 1969 (NEPA) and Section 106 of the National Preservation Act of 1966.*



#### ENGINEERING

Representatives from the WVDOH and HDR are available to discuss the location and preliminary design of the project, how this type of improvement functions/operates, the operational and safety benefits it provides.



#### RIGHT-OF-WAY

This project is unique in that all improvements will be constructed within the existing WVDOH right-of-way. ROW representatives from WVDOH are available to answer any questions regarding the process.

## PROJECT BACKGROUND

On September 19, 2019, a public meeting was held to present improvements within the US 119 Corridor from MacCorkle Avenue to Emerald Drive. In addition to the proposed corridor improvements, five alternatives for the Oakwood Road/Lucado Road improvements/modifications were specifically presented. While these five alternatives improved traffic operations, the WVDOH received feedback related to their high costs, property impacts, and impacts during construction.

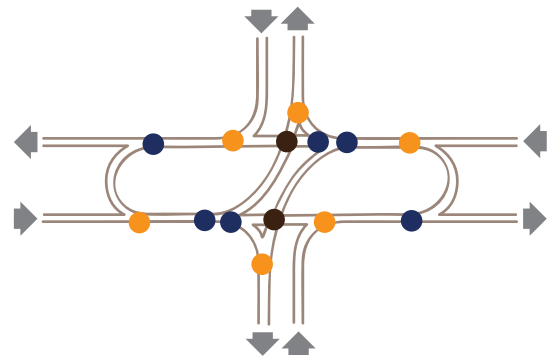
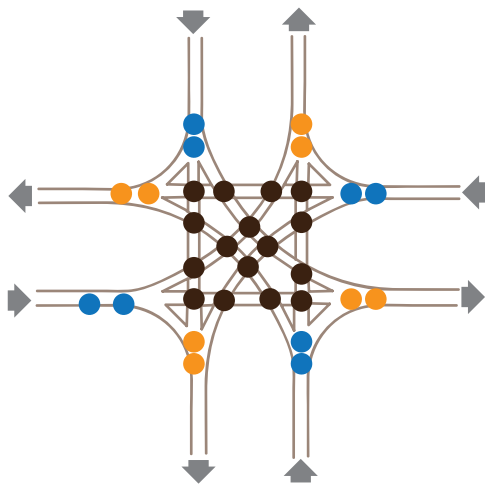
In response to public comments, the design team engaged experts who specialize in developing unique solutions for complex traffic issues. This team tested an innovative concept, known nationally as the “Restricted Crossing U-turn Intersection” concept, or “R-cut” for short. The uniquely designed R-cut intersection has proven operational and safety benefits, including:

- Reduced number of conflict points at intersections.  
*See how the conflict points are reduced in the graphic shown below.*
- Reduced injury and fatal crashes by 54 percent when compared to traditional signalized intersections. This number is based on information provided by the Federal Highway Administration.
- Shorter wait times at traffic signals by changing the signal to two phases. At the Oakwood Road intersection, the existing PM peak hour signal cycle length is nearly three minutes, while with the R-cut design, it is only one minute. This will significantly reduce delays and user costs for drivers using Corridor G, Oakwood Road, and the surrounding roads.

### CONVENTIONAL 32 Conflict Points

### R-CUT 14 Conflict Points

● Crossing    ● Merging    ● Diverging



From a design and implementation perspective, the R-cut design has additional advantages over the previously presented alternatives. The design also accommodates all anticipated vehicles, including school buses and trucks. Key advantages are listed below:



**Low cost with no right-of-way impacts**



**Construction can be performed at night and off-peak hours to minimize impacts**



**Does not preclude future improvements to the corridor**

# US 119/OAKWOOD AREA IMPROVEMENTS

**COST: \$4.7M**

Costs are only for alternatives shown and do not include Utility Relocation, Construction Inspection, or Engineering Costs. Costs are in 2019 dollars utilizing preliminary concepts.



## IMPROVEMENT DESCRIPTION:

- At Oakwood Road, the left-turn and through movements from the side road are eliminated
- Left-turn and through movements from Oakwood Road are accommodated by a signalized R-cut intersection just to the north or south
- Signals work in a coordinated system with two-phases
  - US 119 with Northbound R-cut Intersection
  - US 119 with Oakwood Road Intersection
  - US 119 with Southbound R-cut Intersection
- Left-turns onto Lucado Road from US 119 are accommodated by the R-cut to the south of Lucado Road
- Left-turns onto Green Meadow Road from US 119 are accommodated at the Oakwood Road intersection to the north
- These improvements are designed to accommodate all anticipated vehicles, including school buses and trucks

## ADVANTAGES

- Significant improvement in LOS and safety for corridor and side roads
- Reduced congestion for critical movements, including SB left-turn onto Oakwood Road during the PM peak hour
- Minimal ROW impacts and quick construction which translates to less disruptions to the residents and traveling public
- Significant reduction in signal cycle length at Oakwood Road which will improve LOS and reduce delays

## DISADVANTAGES

- Through and right-turn movements are restricted from Oakwood Road
- Some drivers may travel slightly longer distances, however the time interval may be the same or shorter than sitting at the Oakwood Road signal during the current four-phase signal
- Addition of two partial signals to corridor
- Left-turns from US 119 onto Lucado and Green Meadow Roads are eliminated

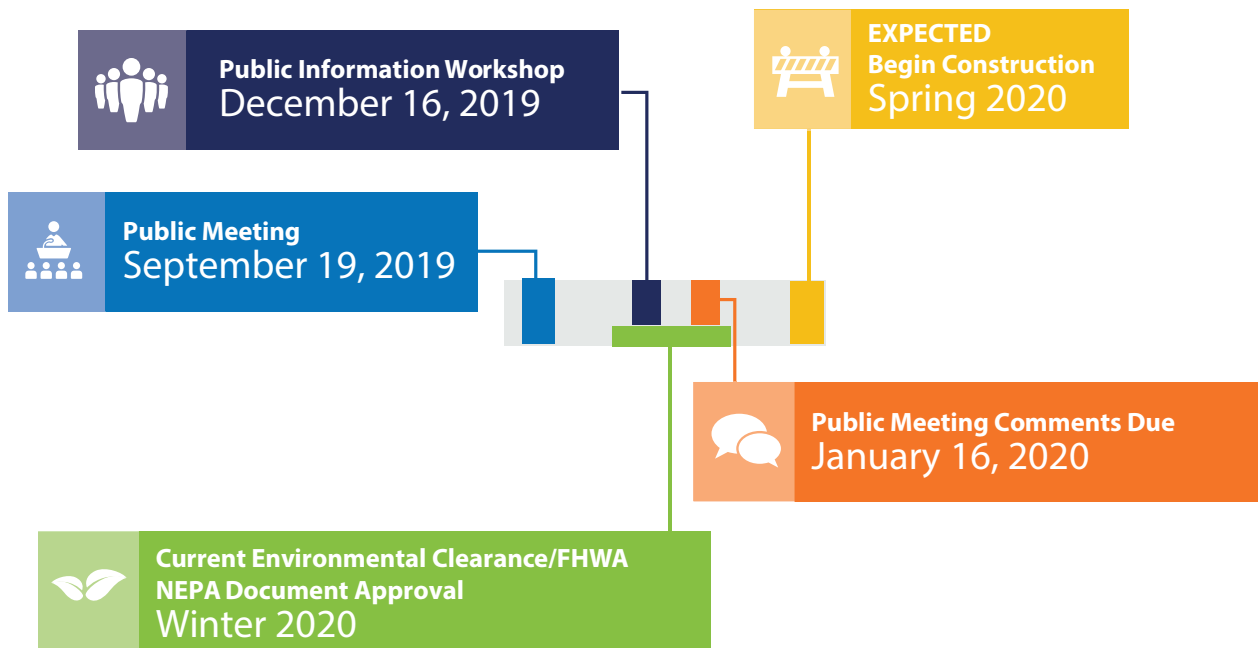
## 2040 LEVEL OF SERVICE (LOS)

A	A	1	US 119 and SB U-turn
B	A	2	US 119 and Lucado Road Right-Out
B	A	3	US 119 and Green Meadow Road Right-Out
A	B	4	US 119 and Oakwood Road
A	B	5	US 119 and NB U-turn/Hickory Road

### LEGEND

LOS (AM)	LOS (PM)	LOS A	LOS B	LOS C	LOS D	LOS E	LOS F
Light Gray	Light Gray	A	B	C	D	E	F

## PROJECT SCHEDULE



## WHY SHOULD YOU BE INVOLVED IN THE PROJECT?



Each comment and suggestion provided will help the involved agencies hear directly from the public. Your input is important and will be used to guide the study team as the project moves forward.

Please send written comments on or before **January 16, 2020** to:



Mr. Raymond J. Scites, P.E.  
Director, Engineering Division  
West Virginia Division of Highways  
1334 Smith Street  
Charleston, West Virginia 25301



Project Information and Comment Sheets can be found online at our web page: <http://go.wv.gov/dotcomment>

Click on **“Comment on Engineering Project”**, and then click on **“Oakwood I/S Improvements Project.”**