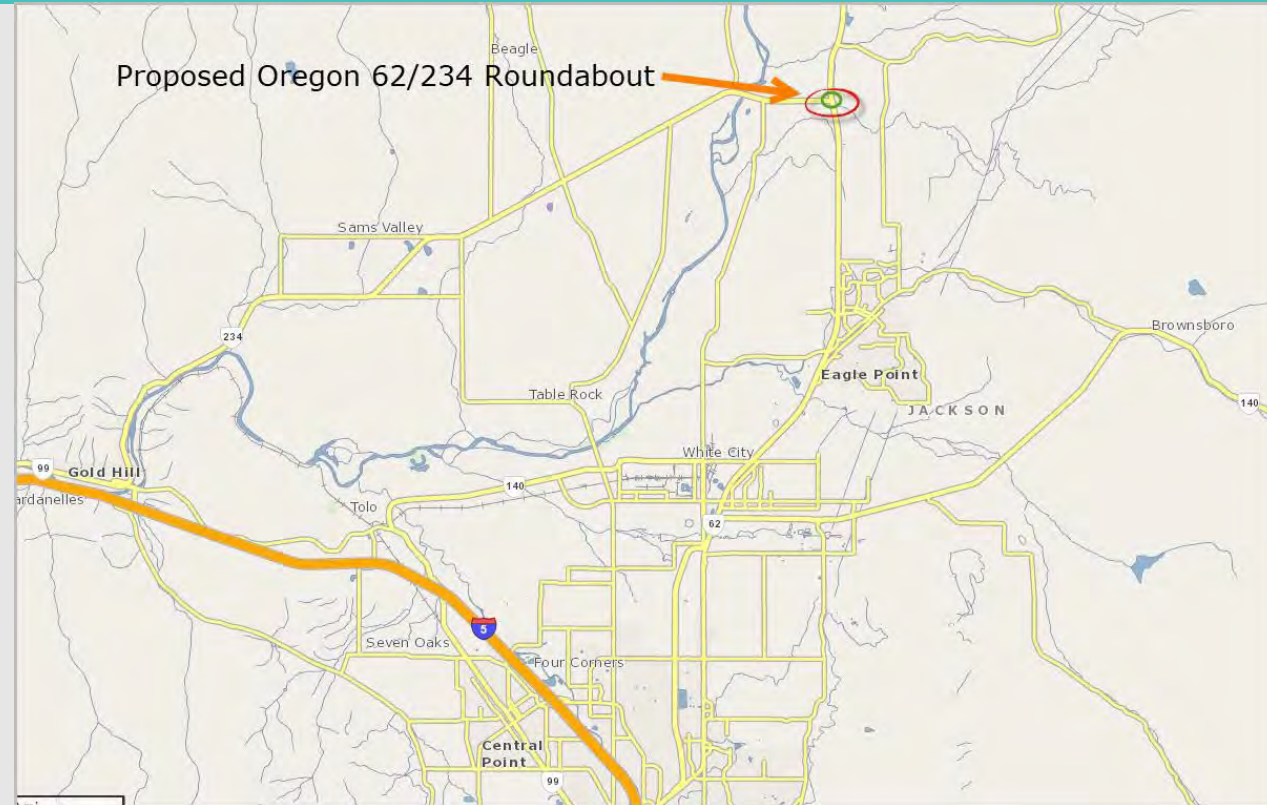


# OR62 at OR234 ROUNDABOUT

## Intersection Safety Improvement & Potential ORS 366.215 Impact

- **Presenter(s) Name(s): Sarah Thompson**
- **Other Notes: 2024-27 STIP Project (ARTS Region 3 Funding)**

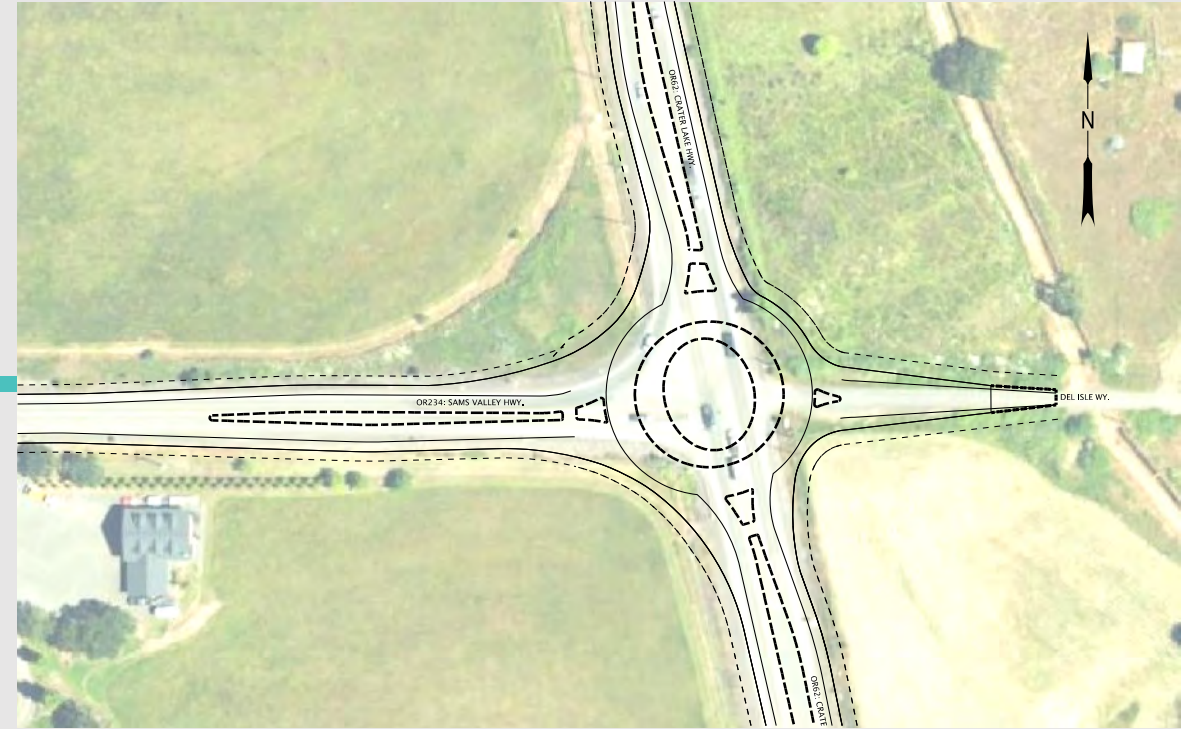


**Mobility Advisory Committee**  
Meeting Date: 09/11/2025

# AGENDA

## Topics:

- Location Details
- Project Purpose, Scope & Issues
- Existing Conditions & Proposed Design
- Design Vehicle, Accommodation Vehicle(s)
- OD Permit Data
- Summary of Proposed Changes
- Next Steps

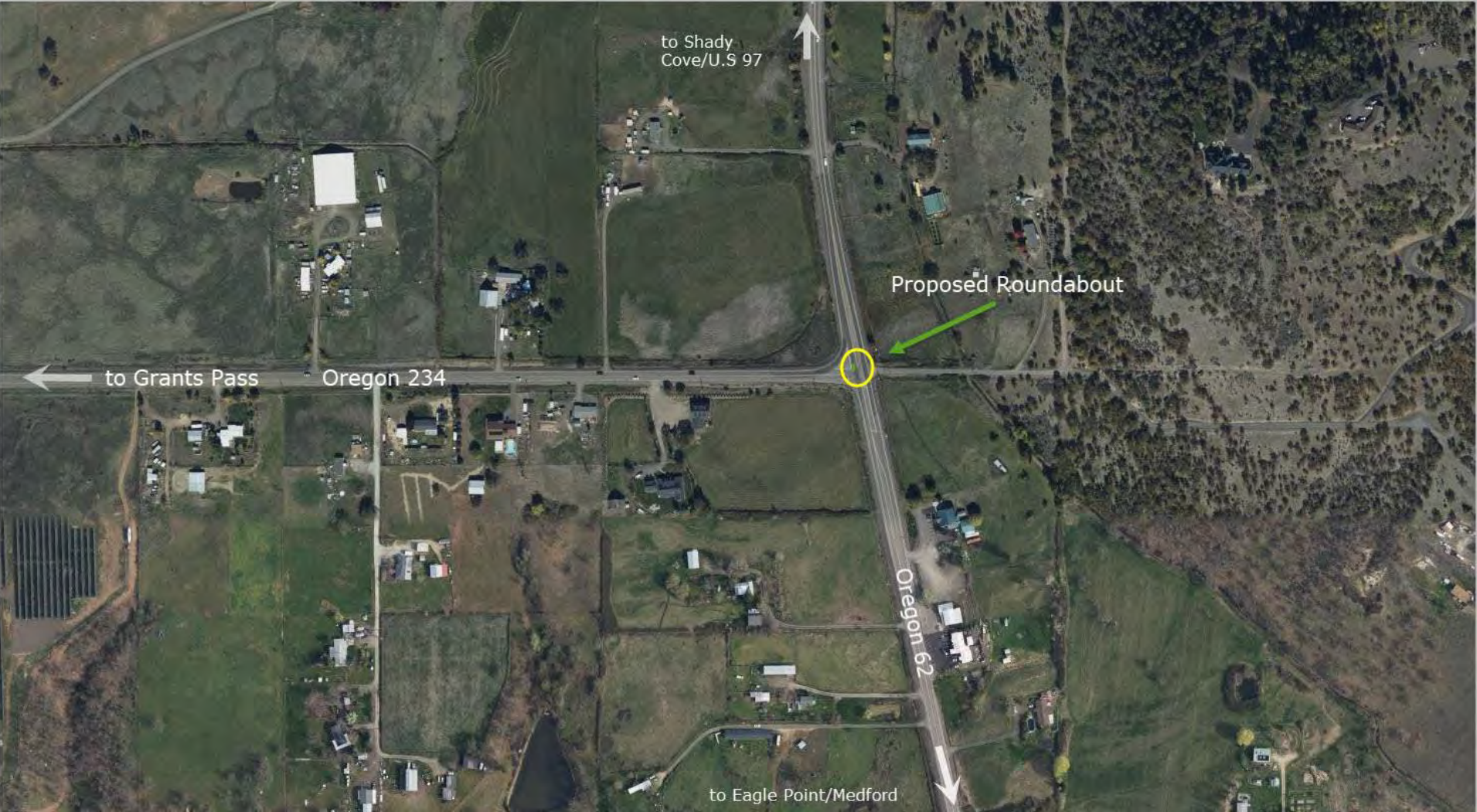


## Objective:

- Seeking Stakeholder Forum Support for Proposed Action subject to ORS 366.215.
- Seeking Freight Industry support for Conceptual Approval and a Memorialized Agreement on Roundabout Sizing (Per Highway Directive DES-02).

# OR62 at OR234 ROUNDABOUT

Location	Signed Route No.	Hwy No.	Mile Point	ADT	% Truck Traffic
Crater Lake Hwy	OR62 & OR234	Hwy 022 & 271	13.63 & 17.48	9560	21%



# OR62 at OR234 ROUNDABOUT

## Location Details

### Roadway Characteristics

- “T” Intersection of two state highways; corridor from I-5 in SW Oregon to Central Oregon. Configuration is one travel lane each direction with a left turn lane for Northbound Hwy 62.
- Fourth leg of intersection is dead end local access road (Del Isle Way).
- Grade type is flat.
- Both highways are Straight.

### Annual Over-Dimension Permits

- Annual Width allowed daytime: 12 feet
- Annual Width allowed nighttime: 8’-6”

### Single Trip Over-Dimension Permits

- Width allowed daytime without District Approval OR62: 16 feet
- Width allowed daytime without District approval OR234: 14 feet
- Width allowed nighttime without District Approval: 8’-6”

# OR62 at OR234 ROUNDABOUT

## Project Purpose, Scope, Issues

### Scope:

This project seeks to reduce both the number of crashes and the severity of crashes at the OR62- OR234 unsignalized rural high-speed intersection by constructing a single lane roundabout.

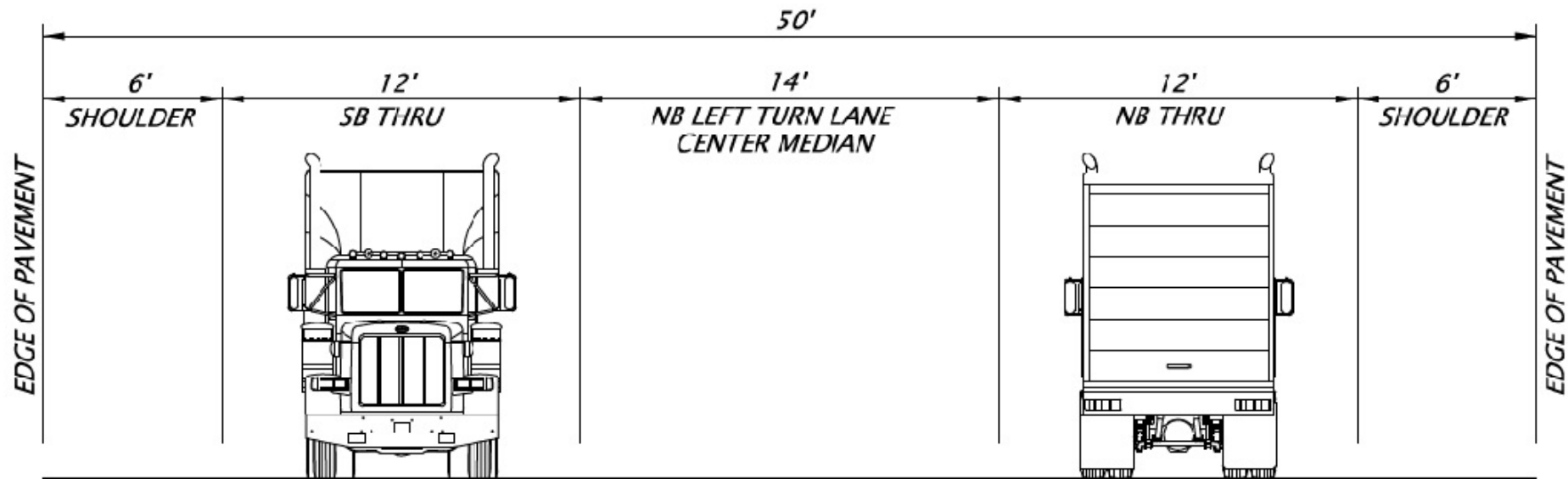
The roundabout is the preferred alternative for this location since it will improve the overall operation and safety of the intersection, compared to doing nothing and relative to other available solutions, such as a traffic signal.

### Issues & Concerns to be addressed:

- Safety Project
  - Top 10% SPIS Site
  - Rural High-Speed Intersection
  - Primary cause is failure to yield R/W
  - Roundabout reduces conflict points
- Mobility
  - Intersection of two state highways
  - Corridor from I-5 to Central Oregon

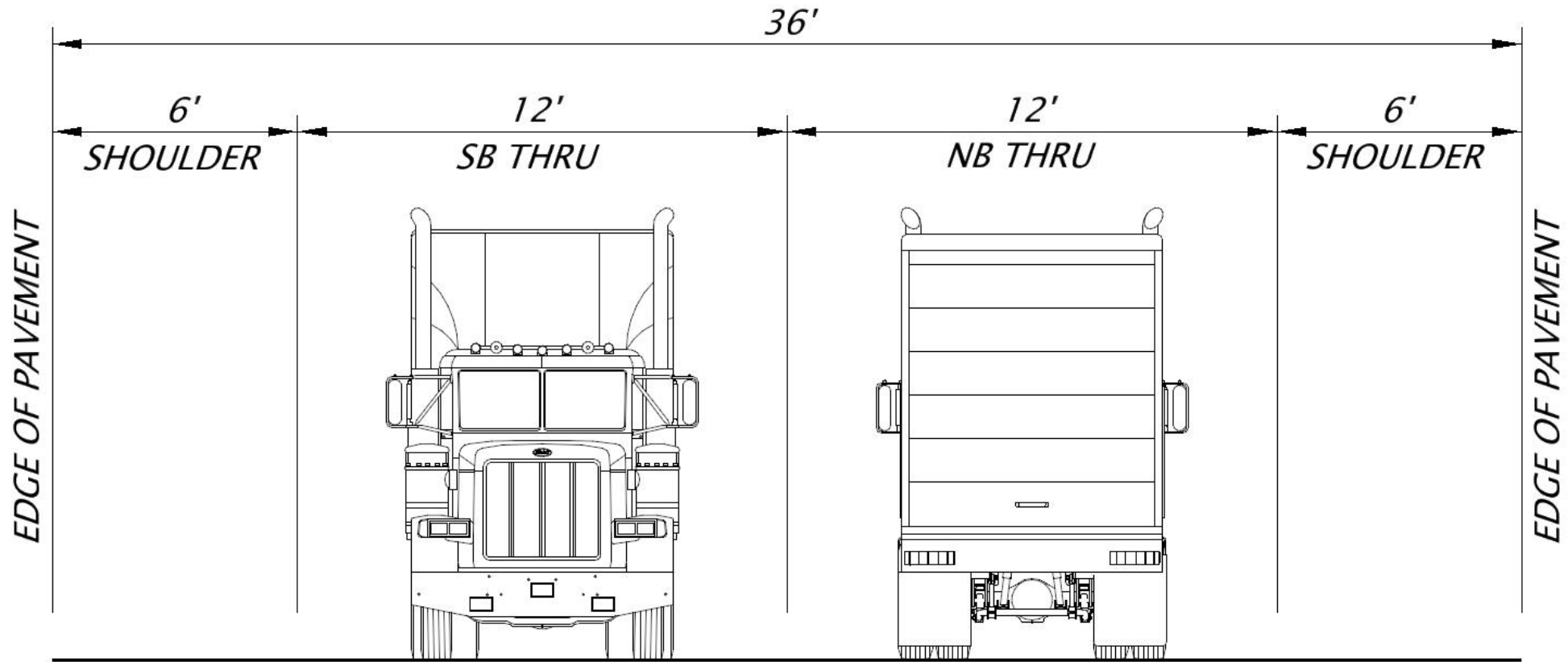
# OR62 at OR234 ROUNDABOUT

## OR62: Existing Condition Cross Section



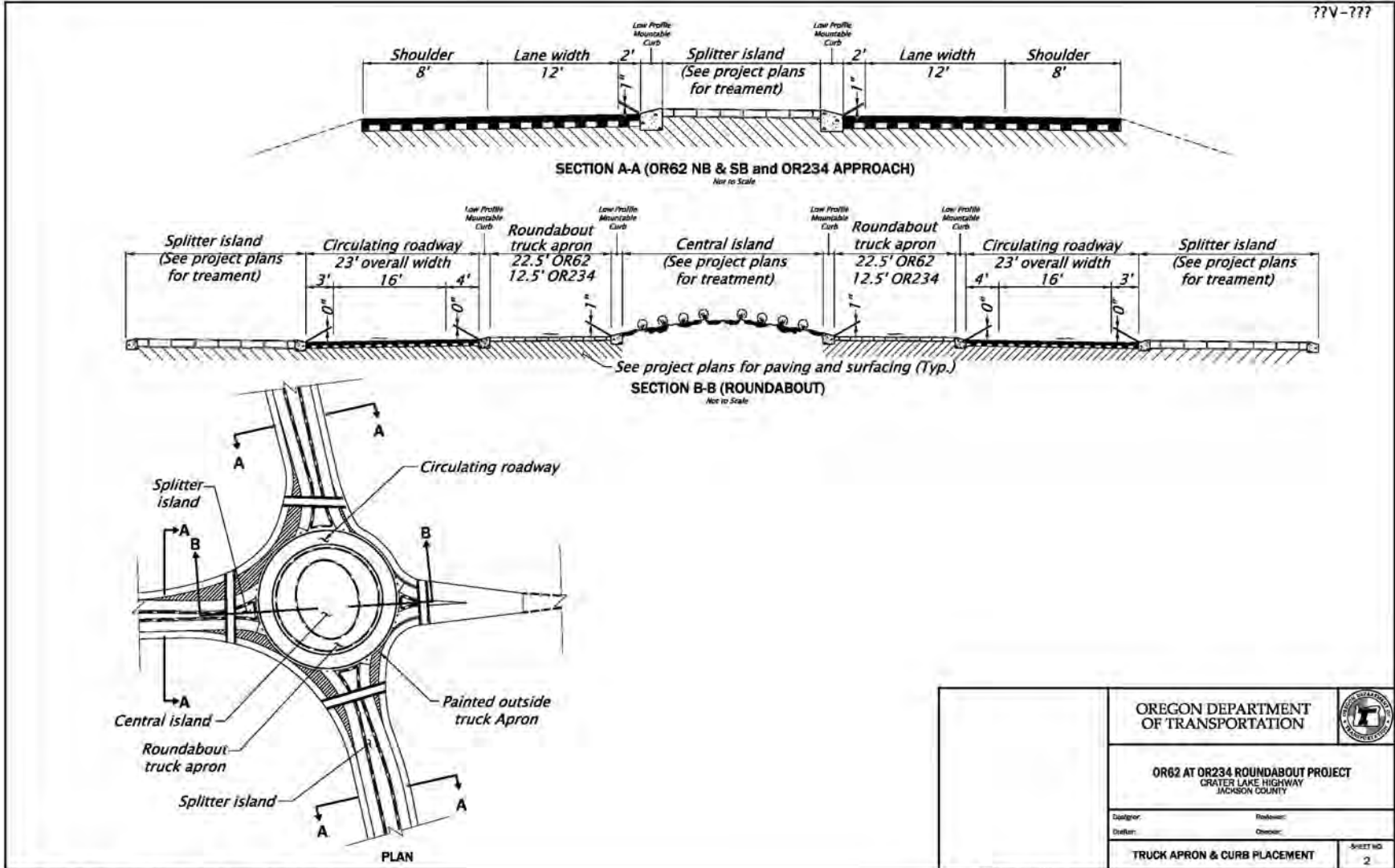
# OR62 at OR234 ROUNDABOUT


## OR234: Existing Condition Cross Section



# OR62 at OR234 ROUNDABOUT

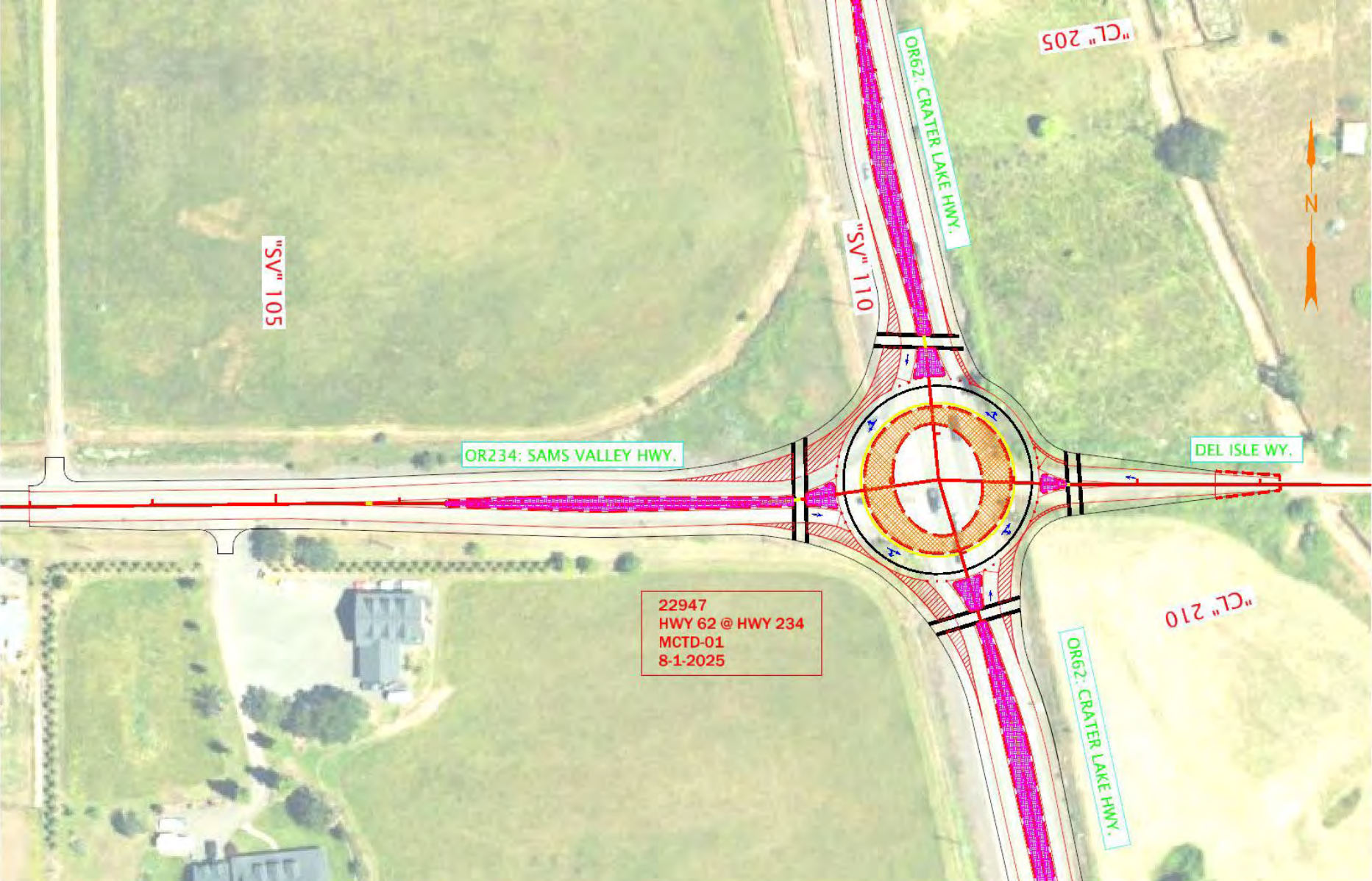
## Proposed Cross Sections



OREGON DEPARTMENT OF TRANSPORTATION 	
OR62 AT OR234 ROUNDABOUT PROJECT CRATER LAKE HIGHWAY JACKSON COUNTY	
Designer: _____ Drafter: _____	Reviewer: _____ Checker: _____
TRUCK APRON & CURB PLACEMENT	
SHEET NO. 2	

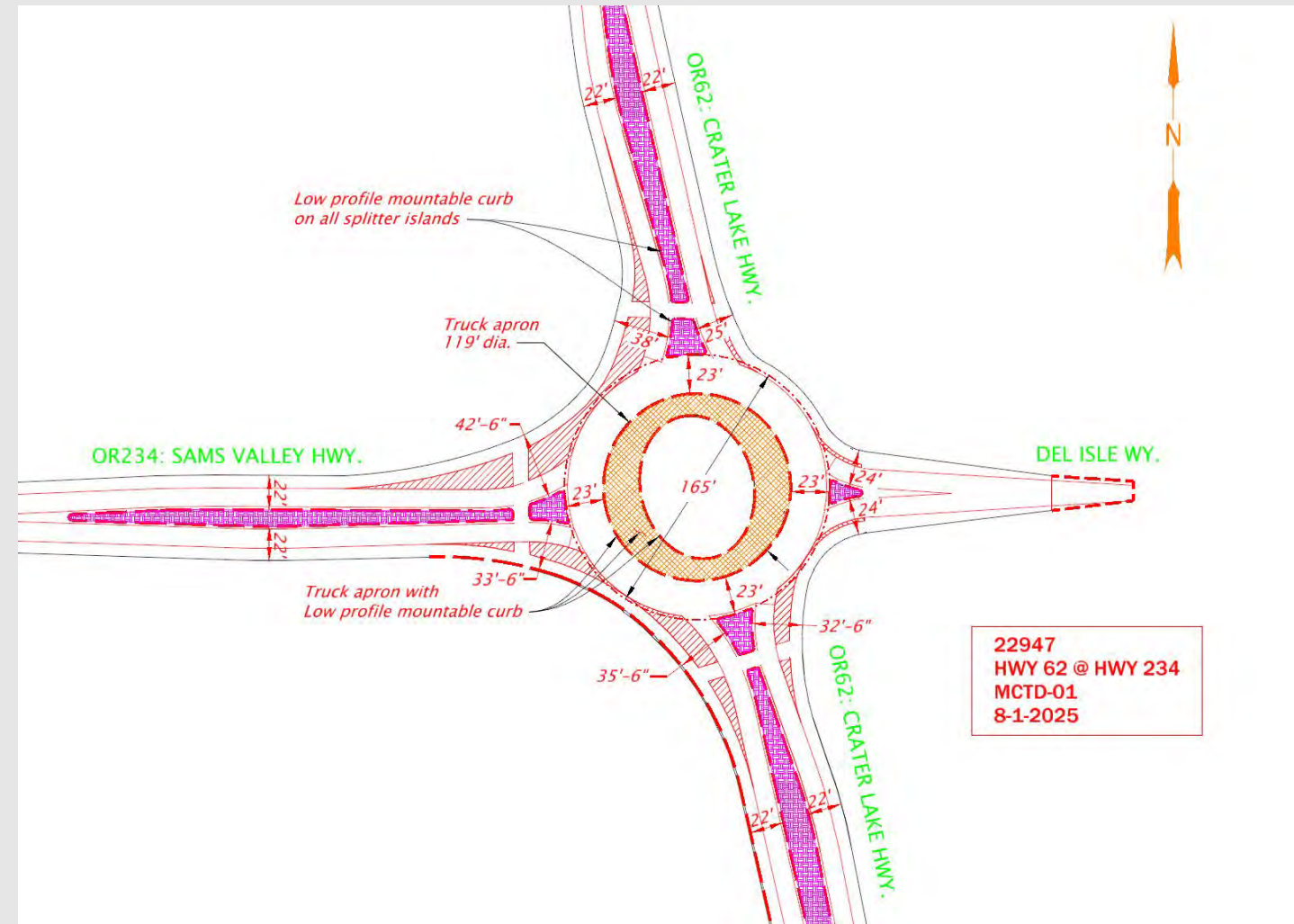
# OR62 at OR234 ROUNDABOUT

## Conceptual Drawing



# OR62 at OR234 ROUNDABOUT

## Proposed Roundabout Design



Design Element	Measurement
Inscribed Diameter	165 feet
Truck Apron Diameter	119 feet
Truck Apron Width	22.5' (NB & SB) 12.5' (WB & EB)
Central Island Diameter	92' max & 72' min (Ellipse)
Central Island Curb Height	1" Lip (Mountable)
Circulating Roadway Cross Slope	3%
Truck Apron Cross Slope	3%
Splitter Island & Truck Apron Curb Heights	Zero Lip (Mountable)
Mountable Curbs	Splitter Island and Truck Apron
Narrowest Pinch Point (curb to curb) for <u>each</u> travel direction	22 feet OR62 & OR234
Travel Lane Widths	12' approaching (All Directions) 16' in Roundabout

# OR62 at OR234 ROUNDABOUT

## Design Vehicle & Accommodation Vehicle Summary

Design Vehicle	Accommodation Vehicle
<p>Truck-tractor/semitrailer with 53' trailer (WB-67)</p> <ul style="list-style-type: none"><li>• Overall Length: 73.5 feet</li><li>• Overall Width: 8.5 feet</li></ul>	<p>Oversized 135' Low Boy</p> <ul style="list-style-type: none"><li>• Overall Length: 135 feet</li><li>• Overall Width: 10 feet</li></ul>

- Proposed design will accommodate up to 154 foot long and 10 feet wide Booster.
- Proposed design will also accommodate up to 105 foot long and 14 feet wide Manufactured Home Hauler.

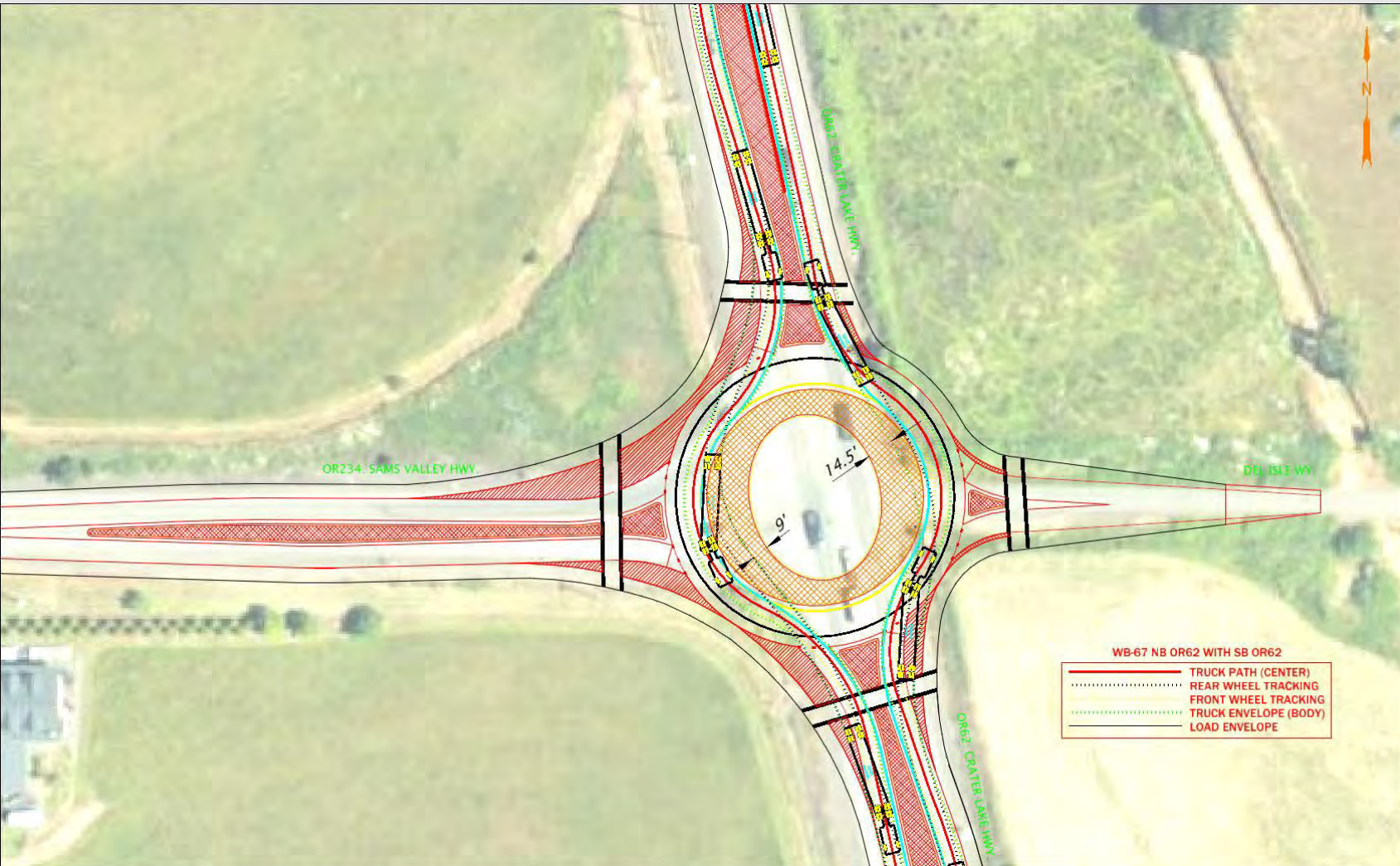
# OR62 at OR234 ROUNDABOUT

## Design Vehicle Turning Movements

### Design Vehicle

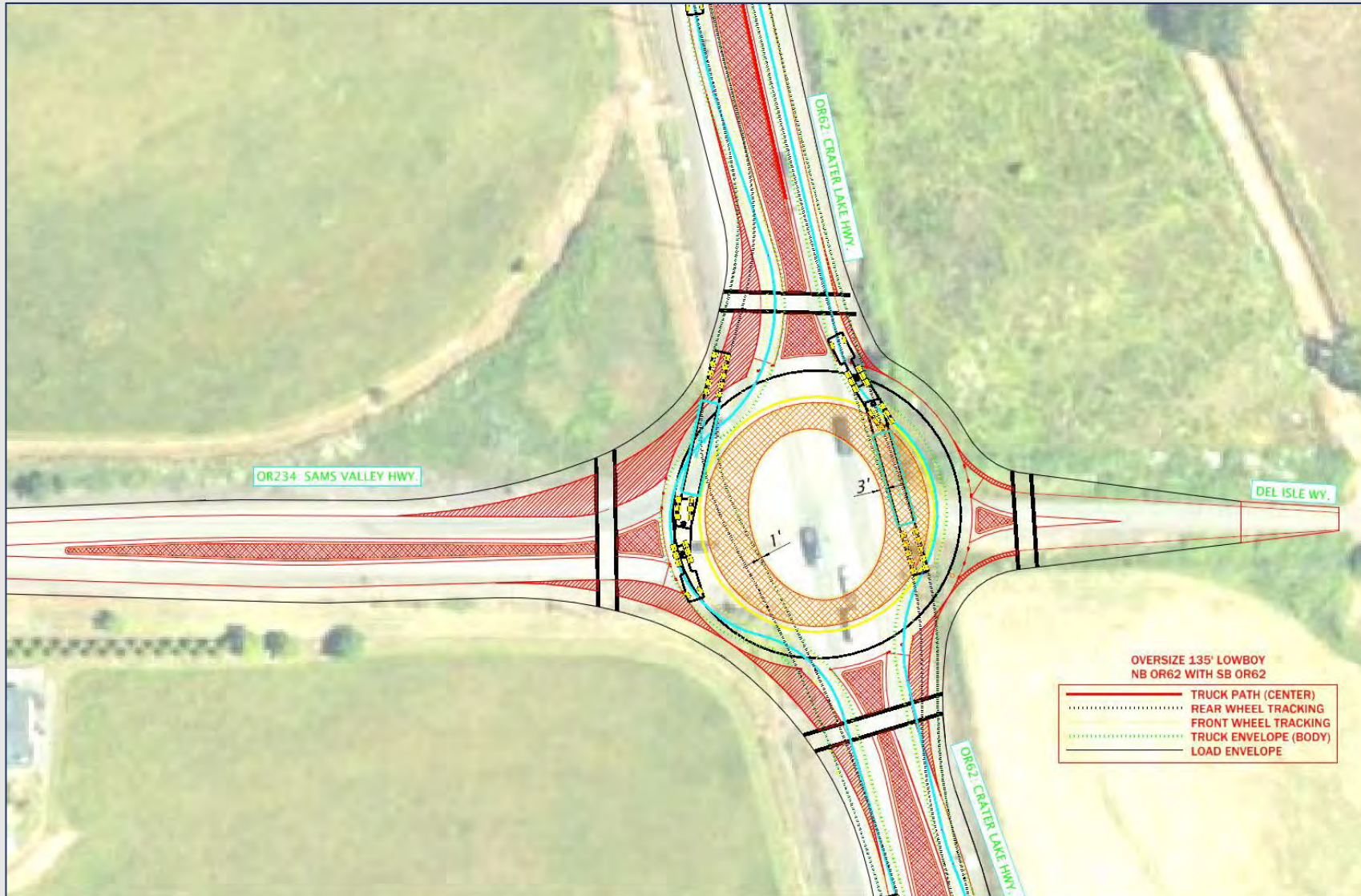
Tractor Trailer/Semitrailer with 53-foot trailer (WB 67):

- Overall Length: 73.5 feet
- Overall Width: 8.5 feet



# OR62 at OR234 ROUNDABOUT

## Accommodation Vehicle Turning Movements

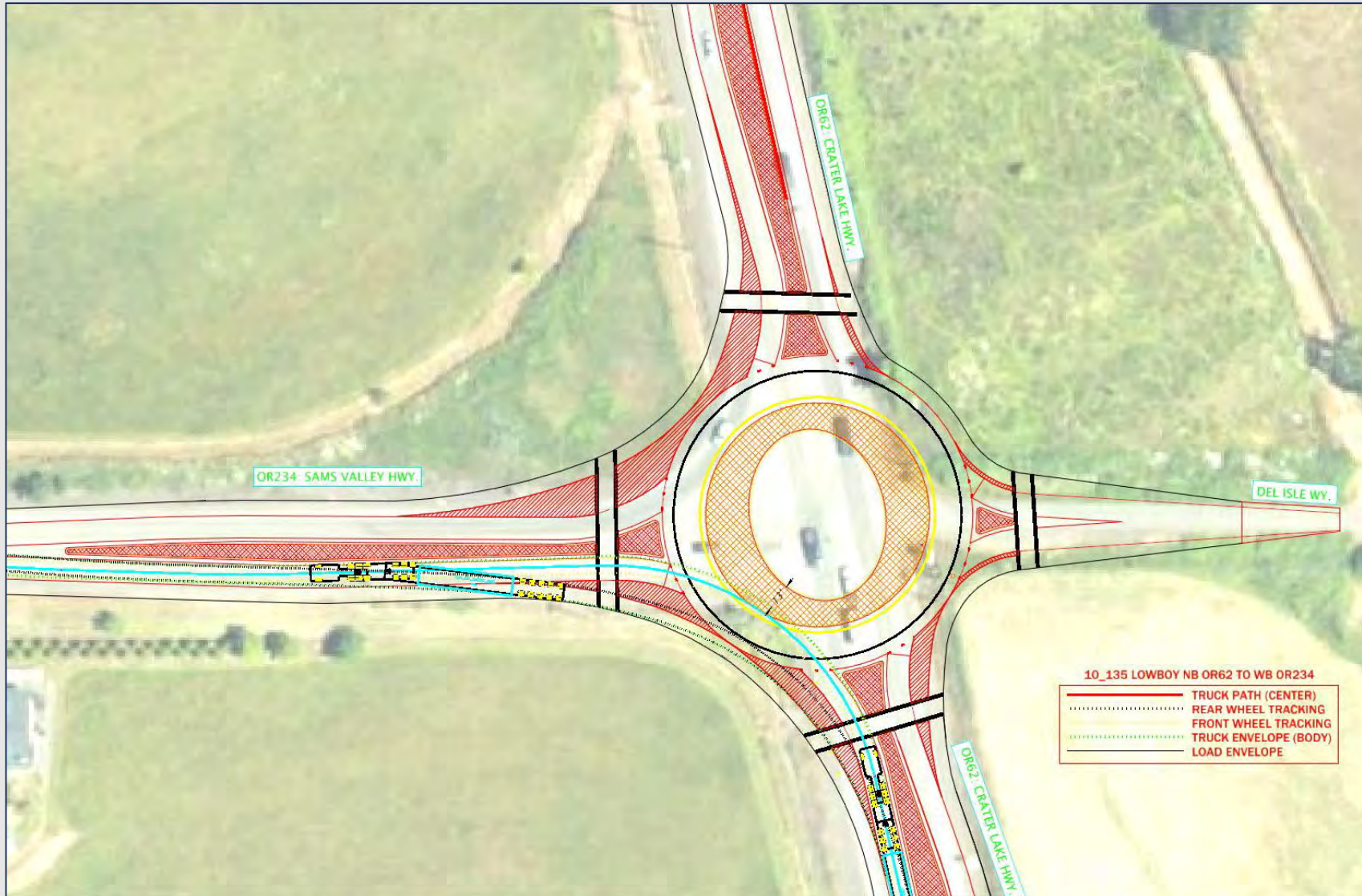


### Accommodation Vehicle

- 135' Long 10' Wide Lowboy:
- Overall Length: 135.0 feet
  - Overall Width: 10.0 feet

# OR62 at OR234 ROUNDABOUT

## Oversized 135' Low Boy Contra Flow Movement

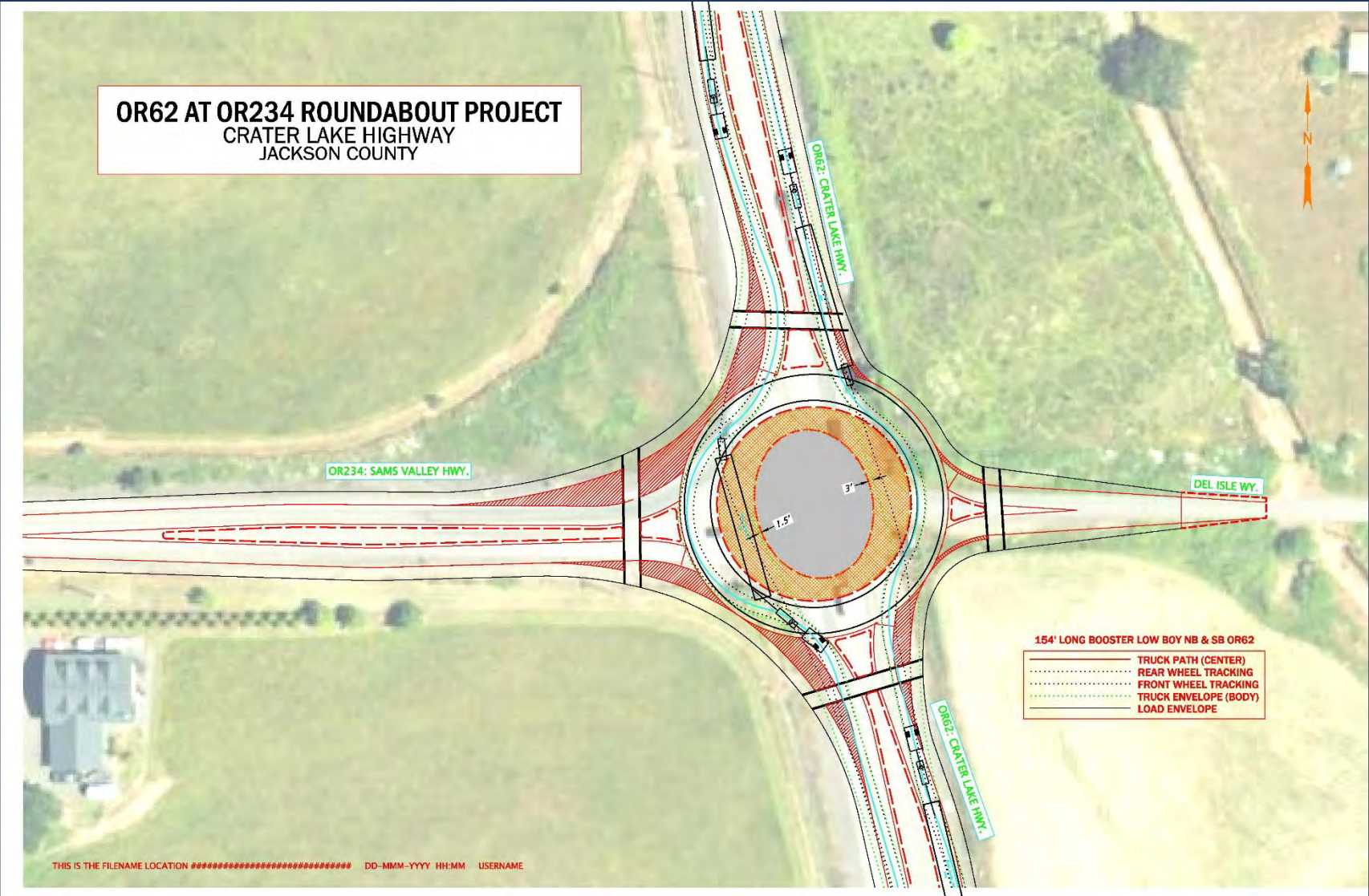


Oversized 135' Long 10' Low  
Boy (NB62 to WB234)

Northbound 62 enter  
roundabout through  
Southbound 62 & Exit through  
Eastbound 234

# OR62 at OR234 ROUNDABOUT

## Oversized 154' Booster Movements

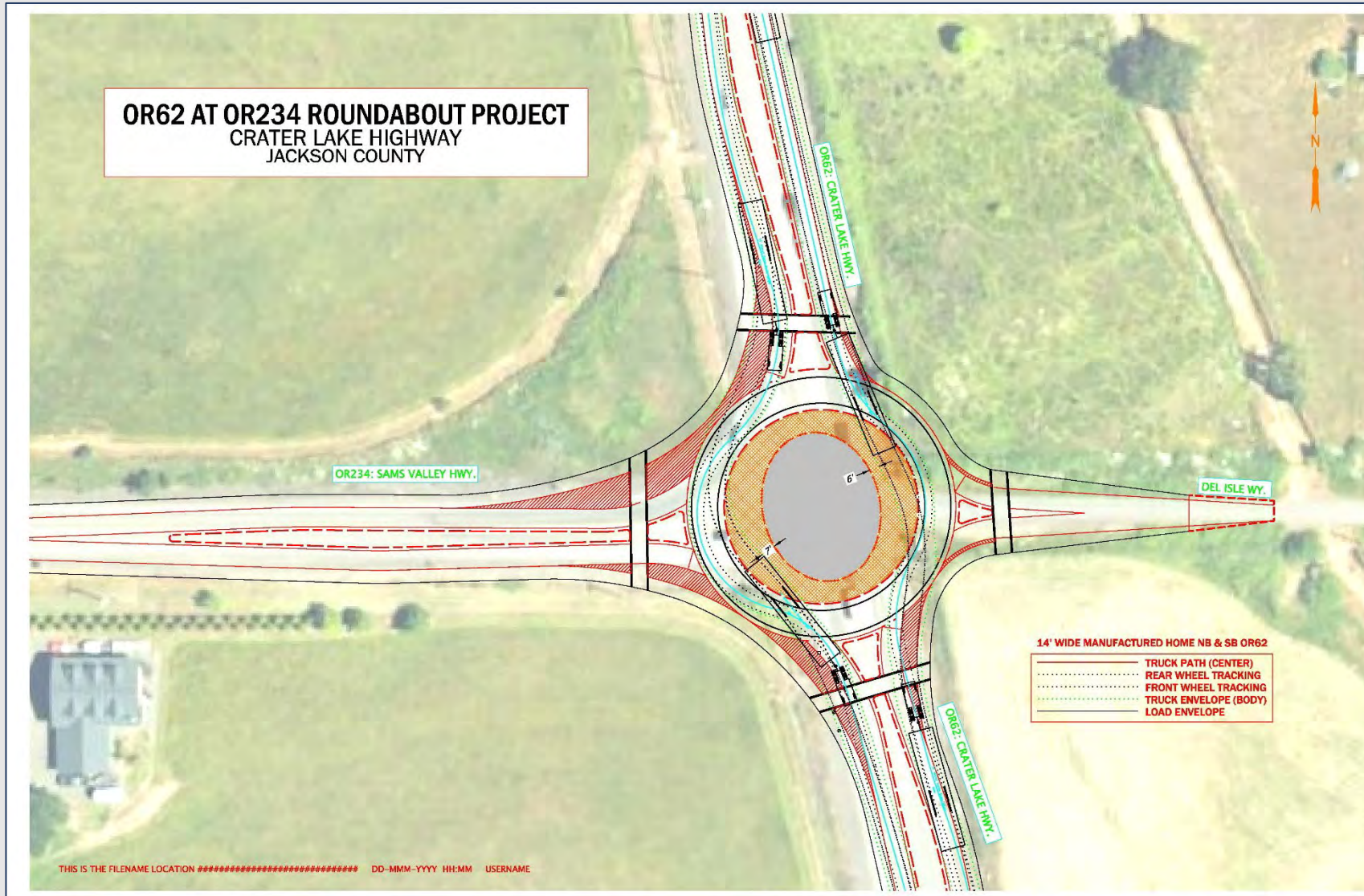


Oversized 154' Long 10' Wide  
Booster (NB62 & SB62)

- 154' Long 10' Wide Booster:
- Overall Length: 154.0 feet
  - Overall Width: 10.0 feet

# OR62 at OR234 ROUNDABOUT

## Oversized 14' Wide Manufactured Home Hauler Movements



Oversized 105' Long 14' Wide  
(NB62 & SB62)

- 105' Long 14' Wide  
Manufactured Home Hauler:
- Overall Length: 105.0 feet
  - Overall Width: 14.0 feet

# OR62 at OR234 ROUNDABOUT

## Single Trip Over-Dimension Permit Summary

- Analysis duration: 5 years
- Total STPs issued (including trips): 2245 permits

### District Guidelines for Over-Dimension Loads:

Daytime Width Allowed (without district approval)	Nighttime Width Allowed (without district approval)	Overall Length Allowed (without district approval)	Other Comments
16 feet on OR62 14 feet on OR234	8 feet 6 inches (Legal)	150 feet	<ul style="list-style-type: none"> <li>• OR 234 heading to the west of the intersection has a signed length restriction of 60 feet for singles and 75 feet for doubles .</li> </ul>

# OR62 at OR234 Roundabout

## Single Trip Over-Dimension Permit Summary: Wide Loads

- Widest load was issued permits 3 times at 16' wide.
- Majority of permits were between 11'01" and 12'00" wide.

Overall Width	Number of single-trip permits issued
8'06" or less (legal width)	504
8'07" to 10'00"	77
10'01" to 11'00"	391
11'01" to 12'00"	1024
12'01" to 13'00"	76
13'01" to 14'00"	140
Over 14'00"	33

# OR62 at OR234 Roundabout

## Single Trip Over-Dimension Permit Summary: Long Loads

- Most long loads were issued for Heavy Haul Combination (Truck-Tractor/Jeep/Semitrailer/Booster)
- Longest load was for a drill (PWT-X) at 140' long.
- Majority of permits were between 71' and 90' long.

Overall Length (incl. overhang)	Number of single-trip permits issued
70' or less	329
71' to 80'	880
81' to 90'	561
91' to 100'	316
101' to 110'	141
111' to 120'	17
Over 120'	1

# OR62 at OR234 Roundabout

## Single Trip Over-Dimension Permit Summary: Vehicle Combinations

Vehicle Combinations	Number of single-trip permits issued
Truck (Solo Vehicle) or Self-Propelled Units (like cranes)	2
Doubles	1
Truck-Tractor + Semitrailer or Truck-Tractor +Tow-Away Unit	529
Truck + Trailer	17
Log Truck + Pole Trailer	0
Heavy Haul Combination (Truck-Tractor/Jeep/Semitrailer/Booster)	1608
Toter + Mobile Home	74
Pickup Truck + Trailer	14

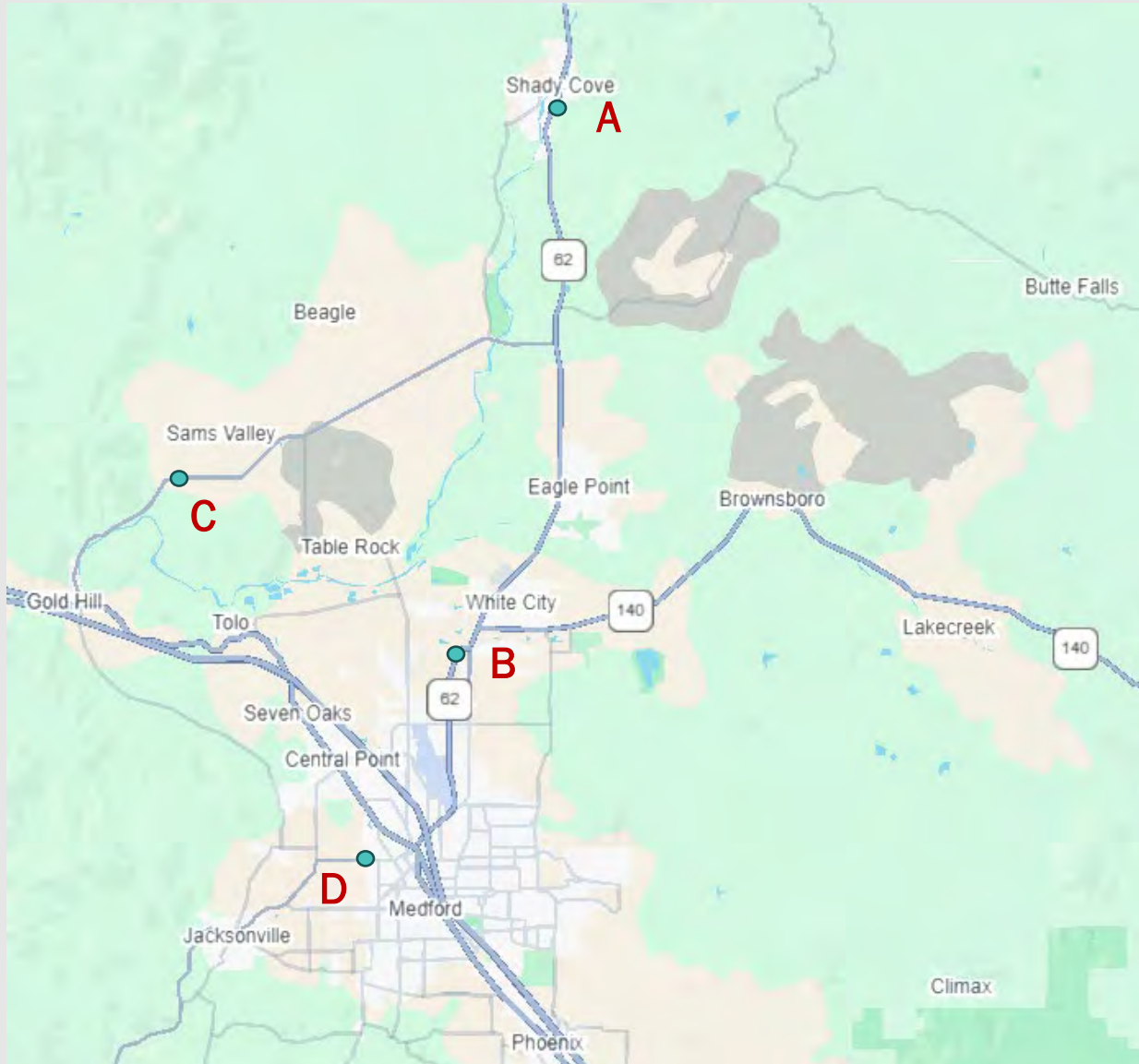
# OR62 at OR234 Roundabout

## Annual Over-Dimension Permit Data

Widths Allowed	Overall length Allowed: Long logs/ poles/piling permit, w/out steerable axles	Overall Length Allowed: Mobile/ modular unit permit	Overall Length Allowed: Unladen heavy haul combination permit	Overall Length Allowed: 1/2 wheelbase rear overhang permit for truck tractor and semitrailer combos)
<p>Daytime annual width: 12 feet</p> <p>Nighttime annual width: Not Authorized</p> <p>Triples: Not Authorized</p>	105 feet	95 feet	105 feet	80 feet

# OR62 at OR234 Roundabout

## Pinch Point Information



- A. OR62 mile point 19.81 = 24 feet
- B. OR62 mile point 5.15 = 24 feet
- C. OR234 mile point 7.00 = 22 feet
- D. OR62/OR238 mile point 37.43 = 19 feet

# OR62 at OR234 Roundabout

## Summary of Changes

Proposed Design Feature	Existing Curb-to-Curb Width N & SB (Hwy 62) & E & WB (Hwy 234)	Proposed Curb-to-Curb Width – N & SB Hwy 62 Through Movements	Proposed Curb-to-Curb Width – E & WB Hwy 234 Turn Movements	Proposed Curb-to-Curb Width Reduction
Roundabout	36 Feet	22 Feet	22 Feet	14 Feet

# NEXT STEPS

- Seeking Stakeholder Forum Support for Proposed Action subject to ORS 366.215.
- Seeking Freight Industry support for Conceptual Approval and a Memorialized Agreement on Roundabout Sizing (Per Highway Directive DES-02).



An aerial photograph of a highway interchange under construction, overlaid with a semi-transparent blue filter. The interchange features a large circular roundabout in the center, with several ramps leading to and from it. Multiple construction vehicles, including trucks, excavators, and compactors, are visible on the dirt and gravel surfaces of the interchange. A multi-lane highway runs parallel to the interchange on the right side of the image. The text "THANK YOU" is centered in the image in a white, bold, sans-serif font.

THANK YOU