

C-R-S: DEL 36 1.88

US Route 36 and Ostrander Road Intersection

Scope Narrative

General:

County: Delaware County

PID#: ODOT TBD

Description: The Consultant's services include preparation of final construction and right of way plans for a new single-lane modern roundabout with minimal approach work.

Design Designation:

	US Route 36	Ostrander Road
Current ADT (2025)	Certified traffic required	Certified traffic required
Design Year ADT (2049)	"	"
DHV (2049)	"	"
Directional Distribution	"	"
Trucks (24 Hour B&C)	"	"
Design Speed:	55 mph	45 mph
Legal Speed	55 mph	45 mph
Current Functional Classification	Rural Minor Arterial	Rural Local Road
Design Functional Classification	Rural Minor Arterial	Rural Local Road

Survey Parameters:

Survey and base mapping should use the Ohio County Coordinate System (OCCS).

Traffic Analysis:

Refer to the 2025 Safety Study for more information. Provide if-authorized fee for operational analysis of roundabout based on certified traffic.

Plan Sheets:

The following plan sheets are anticipated. No right of way plans are anticipated.

Title Sheet (1) Schematic Plan (1) Roundabout Geometry (1) Typical Sections (4) General Notes (3) Maintenance of Traffic Notes (3) Detour Plan (1) General Summary (3) Estimated Quantities (3) Roadway Subsummary (2) Drainage Subsummary (1) Project Site Plan (1)	Plan and Profile at 20 scale (6) Reference Line Profiles (4) Cross Sections at 50' Plus Driveway Profiles (13) Intersection Detail (6) Splitter Island Details (2) Driveway Subsummary (1) Driveway Details (1) Storm Sewer Profiles (2) Traffic Control (8) Lighting (5) Landscaping Plan (2)
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Cross Section Design:

Lane Width	12'
Shoulder Width	8' paved
Curb Type:	Type 2 Combined at roundabout approaches
Guardrail Type	MGS
Maximum Foreslope	6:1 without guardrail; 2:1 with guardrail
Maximum Backslope	4:1

Pavement Design:

Pavement buildup is shown below. ODOT will determine whether this buildup can be used for US 36 or whether a pavement design will be required. Include if-authorized fee for pavement design based on geotechnical investigations.

- 1 ½" Item 441, Asphalt Concrete Surface Course, Type 1 (449), PG64-22
- Item 407 Tack Coat @ 0.04 gal/sy
- 1 ¾" Item 441, Asphalt Concrete Intermediate Course, Type 2 (449), PG64-22
- Item 407 Tack Coat @ 0.075 gal/sy
- 8" Item 301, Asphalt Concrete Base
- 6" Item 304, Aggregate Base

Roundabout:

Proposed roundabout shall be a single lane, generally conforming to the conceptual layout shown in the Safety Study. Geometric design should conform to NCHRP 1043 guidance.

DCEO prefers truck apron be stamped and colored concrete, though ODOT will make the final determination on truck apron design.

Landscaping:

Central island landscaping will be determined by ODOT. Provide if-authorized fee for a landscaping plan if ODOT approves any trees or other plantings on the project.

Lighting:

Provide photometric analysis and lighting design as required by the ODOT TEM.

Traffic Control:

Use ODOT requirements for signing and pavement markings

Maintenance of Traffic:

A full closure with detour plan is anticipated to be the preferred MOT method for roundabout construction. Ingress and egress from work zone properties shall be maintained with traffic compacted surface where required.

Hydraulics Requirements:

Standards: Hydrologic and hydraulic analysis should be performed in accordance with ODOT L&D Volume 2.

Conduit Material Type: Culvert and storm sewer material preference should be as per the DCEO Supplement to the ODOT L&D Manual.

Geotechnical Engineering:

Soil Borings and Geotechnical Investigation: Use ODOT Geotechnical Design Manual. Provide if-authorized fee for all geotechnical services.

Pavement Design: The Consultant shall use the pavement buildup specified above unless ODOT requires a pavement design using results of the geotechnical investigations.

Environmental:

ODOT will provide additional information to scope the level of environmental studies and CE document level. If a final scope of required environmental studies and documentation is not known at the time of contract approval, Consultant should provide an encumbrance of funds in the fee proposal with actual fees to be negotiated at a future date.

Utilities:

Consultant shall transmit stage review plans to affected utilities. DCEO to perform coordination on any required relocations.

Public Involvement:

Consultant shall prepare electronic versions of project maps showing proposed work limits and shaded right of way limits in PDF or image format. DCEO anticipates direct mailing to affected property owners and a project information web page hosted on the DCEO website. Provide if-authorized fee for preparation and attendance of a public meeting.

Right of Way Design:

No right of way is anticipated for this project. If right of way is required, a contract modification will be required.