**4/28/2025**

**Description of Work-PID 101031**

This project is the systematic replacement and upgrade to current ODOT standards of ODOT-maintained signs and supports on IR-74 and IR-275 in Hamilton County as follows:

1. The systematic replacement of all ground mounted sign supports, ground mounted flat sheet and extrusheet signs, and overhead sign supports. Additionally, existing overhead extrusheet signs should be reused and relocated to the new overhead sign supports.

This work shall occur on the following routes including the interchange ramps:

* 1. IR-275 from the Indiana state line through the eastern junction of IR-275 and IR-74. (0.00 to 13.1 mile markers.)
  2. IR-74 from the Indiana state line through the eastern junction of IR-275 and IR-74 (0.00 to 11.0 mile markers.)
  3. IR-74 EB weigh station ramps and parking lot.

1. On the cross streets at interchanges, work shall include the systematic replacement of ground mounted and overhead sign supports for Interstate lead-in, route marker, and ramp intersection related signs. All ground mounted flat sheet and extrusheet signs shall be replaced, but overhead extrusheet signs should be reused and relocated to the new supports. Work on signal supports or signs attached to signal supports and spans will not be needed as part of this project.

This work shall occur on the following cross streets:

* 1. New Haven Rd.
  2. Dry Fork Rd.
  3. SR 128.
  4. Kilby Rd.

In addition, the following shall apply:

1. The Consultant shall be prequalified in Non-Complex Roadway Design and the Traffic Academy for Signing & Markings.
2. ODOT’s Collector Application contains inventory and inspection information on the existing signs and supports. The inventory can be used by the Consultant for the basis of data collection and plan design. However, the Consultant shall verify that the data is accurate for plan development. Any missing locations shall be inventoried through the collector application by the Consultant.
3. Existing signs must remain in service until either the new replacement sign has been installed or the new support has been installed and ready for relocating a reused sign.
4. All new ground mounted beam supports and overhead sign supports shall require new concrete foundations. Reuse of existing foundations shall not be permitted on the project unless approved by ODOT.
5. The Consultant shall determine the interchange lead-in signing and mounting type (ground or overhead mounted) that is appropriate for the functional classification of each cross street.
6. Bridge-mounted signs shall be removed and replaced with new signs on new overhead sign supports.
7. The LED OPEN/CLOSED weigh station sign and supports on IR-74 Eastbound shall be replaced. It’s critical that the downtime for the LED sign be kept to a minimum and that the sign always be operational during the weigh station’s normal hours of operation.
8. On IR-74, the existing overhead Welcome to Ohio sign on shall be relocated to a new overhead sign truss.
9. On IR-275, PID 121240 will remove the existing ground mounted Welcome to Ohio signs and supports and install an overhead sign on a new truss. No work at this location is anticipated as part of this project.
10. Enhanced Reference Locations signs including intermediate and ramp signs shall be provided along the mainline and all ramps.
11. Design Standards: The project shall be designed to the 11th edition of the Manual of Uniform Traffic Control Devices (MUTCD) and the Ohio Supplement to the MUTCD, both of which are expected to be adopted in January 2026. Information on the Ohio Supplement manual and Ohio’s Early Adoption List can be found at: <https://www.transportation.ohio.gov/working/engineering/roadway/manuals-standards/ohio-mutcd>

All other current design standards such as the Traffic Engineering Manual (TEM) and Sign Design Manual (SDM) shall also be followed unless there is a conflict between current and future manuals. Any conflicts shall be brought to the ODOT’s attention to be resolved.

1. Elevation views are required for all ground mounted signs mounted on structural beams and all new overhead sign supports.
2. SignCadd files (pdf or SignCadd) for the existing overhead extrusheet signs to be reused will be provided by ODOT for the Consultant’s review and use. Sign designs shall be created in SignCadd by the Consultant for the new ground mounted extrusheet signs.

**Scope of work:**

1. **Flat Sheet Signs**:

Replace all existing flat sheet signs with new signs. Size in accordance with Design Standards.

Clearing and grubbing will be required to insure proper sign visibility. The Consultant shall determine limits during inspection.

An estimated quantity of 5,000 sq. ft. shall be used in preparing the fee proposal.

1. **Extrusheet Signs**:

All existing overhead extrusheet signs in the project area have been replaced since 2022 or later, so these signs are expected to be reused and mounted to new supports. Overhead extrusheet signs shall be evaluated and replaced under the following conditions:

* + - * 1. If the existing extrusheet sign design doesn’t comply with the design standards.
        2. Existing signs showing evidence of damage as discovered by field inspection.

All ground mounted extrusheet shall be replaced with new signs. Size in accordance with design standards.

Extrusheet speed limit signs are to be removed and replaced with flat sheet signs on yielding posts.

Extrusheet signs that warrant flat sheet sizing shall be replaced accordingly and where space restrictions may warrant smaller sign sizes.

Any hospital word signs shall be replaced with a D9-2 Hospital sign attached to a supplemental guide sign for the interchange, if possible.

Clearing and grubbing will be required to insure proper sign visibility. The Consultant shall determine limits during inspection.

LOGO and TODS signs that are maintained by Ohio Logos, Inc shall remain in place and not be replaced by this project.

An estimated quantity of 5,000 sq. ft. shall be used in preparing the fee proposal.

1. **Ground Mounted Post Supports**:

Replace all existing ground mounted post supports with new No. 3 yielding post supports.

Avoid the use of No. 4 posts in exposed locations by supporting the sign on either No. 3 posts or structural beam supports.

An estimated quantity of 6,000 ft. (or 400 each based on the number of sign locations not posts per sign) shall be used in preparing the fee proposal.

1. **Ground Mounted Structural Beam Supports**:

All structure beam supports are anticipated to be replaced in the project due to age and condition.

All new structural beam supports shall have breakaway beam connections regardless of barrier protection.

An estimated quantity of 80 locations (assume 2 beams per location) shall be used in preparing the fee proposal.

1. **Overhead Supports**:

All existing overhead sign supports are anticipated to be replaced in the project due to age and condition with new standard ODOT overhead signs supports. The Consultant may review inspection records and construction plans for any supports less than 20 years old and in satisfactory condition that could remain in service.

The Consultant should review the number of signs and the support type at each location to determine if there are opportunities to minimize the number of overhead supports, convert overhead signs to ground mounted supports, or convert trusses to cantilevers.

The Consultant shall design the new rigid supports to be located outside of the clear zone or design barrier protection and end treatments that meet current ODOT standards.

An estimated quantity of 20 Truss and 30 Cantilever supports shall be used in preparing the fee proposal.

1. **Intelligent Transportation Systems (ITS):**

No work on any existing ITS equipment should be expected in the project limits.

There may be concurrent work in the project area with the planned ITS sign replacement project, PID 121932. That project may co-locate overhead signs with ITS signs and supports but that’s unknown at this time.

1. **Project Information on Signs:**

Most of the existing signage was installed under the following projects:

PID 21801

PID 25257

PID 101029

PID 119271

PID 121240

2022 ODOT purchase order for extrusheet sign replacements.

Also, signs will likely be affected by future PIDs 112773, 118472, and 121932.

1. **Inventory Data Collection:**

Inventory data on signs and supports shall be verified or collected using the ODOT Collector Application.

1. **Environmental:**

ODOT District 8 will be responsible for preparing the environmental document for this project.

1. **Survey:**

The Consultant will be responsible for the survey work required for this project.

1. **Maintenance of Traffic:**

It is anticipated that notes and standard construction drawings will be the appropriate plan components needed to specify the maintenance of traffic requirements for this project. Individual maintenance of traffic plan sheets for each sign location aren’t expected to be needed for this project.

1. **Utilities:**

The Consultant shall try to avoid utility conflicts throughout design while holding to the scope of work.  If utility conflicts cannot be avoided, they should be minimized.  Consultant to provide a copy of the OUPS ticket information to ODOT PM (if applicable).  Utility contact information can be requested by the Consultant from the ODOT PM.

Any outages to highway lighting necessary to complete this work should be kept to a minimum duration for only what is necessary to complete the work at each location. The plans shall specify that the contractor shall assume maintenance of the highway lighting while working on a lighting circuit.

1. **Real Estate:**

ODOT anticipates that additional right of way will not be needed to construct this project. Every effort shall be made to not need right of way; temporary or permanent.

1. **Drainage:**

The Consultant will be responsible for locating any existing drainage items. The new supports shall be generally placed so all drainage conflicts are avoided.

1. **Geotechnical:**

ODOT anticipates that geotechnical design services will not be needed for this project.