

5357 John Hagar Road Culvert Replacement

Existing Conditions

Description:

The culvert inlets are located approximately 60' west of the feature address, 5357 John Hagar Road. The existing culvert consists of two 25' long 24" CMP with no headwalls. The pavement over the culvert has area transverse and longitudinal cracks that typically measure 1/8" wide as well as areas of pavement settlement. The corrugated metal pipes show heavy corrosion. The east pipe has collapsed under the roadway and the west pipe has partially collapsed with heavy sediment buildup. Additionally, the culvert inlet and outlet have been crushed and are partially buried.

Spans: 2

Length: 24'

Width: 24"

Rise: 24"

Reasons for replacement:

- ✓ Heavy Surface Corrosion
- ✓ Asphalt Cracking
- ✓ Shoulder Settlement
- ✓ Collapsed CMP



Crushed Culvert Inlet



Partial Pipe Collapse w/ Heavy Corrosion



Shoulder Settlement

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Proposed Conditions

Description:

The proposed culvert construction will include the installation of a 38"x24" reinforced concrete pipe, reinforced concrete headwalls, roadway reconstruction, and site restoration to ensure proper functionality.

Spans: 1

Length: 39.5'

Width: 38"

Rise: 24"

Opinion of Probable Cost: \$60,000

Anticipated Construction Duration: 3 Weeks

Anticipated Schedule for Construction:

August 29th through September 16th

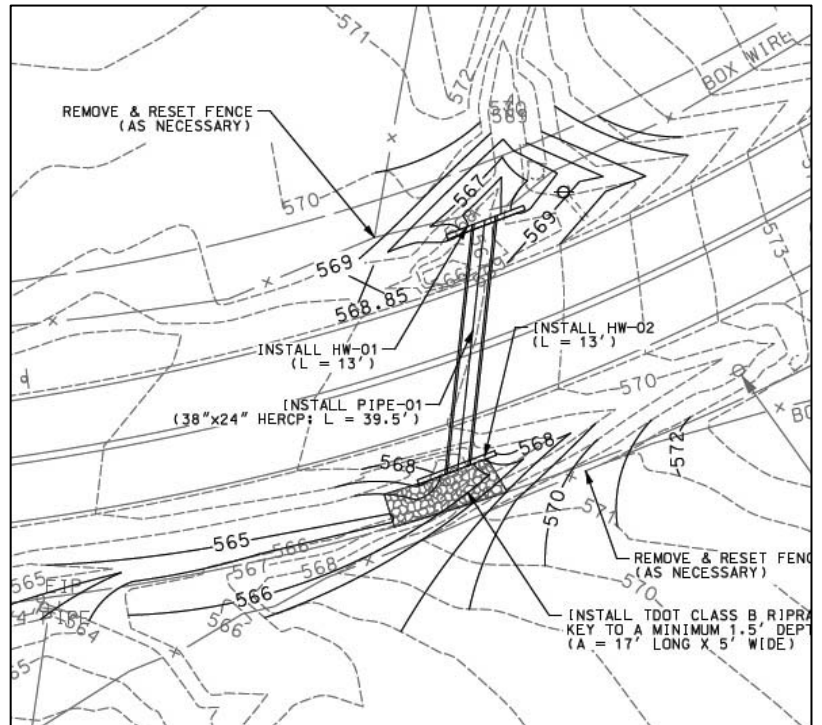
Intermittent Lane Closures:

August 29th through September 16th

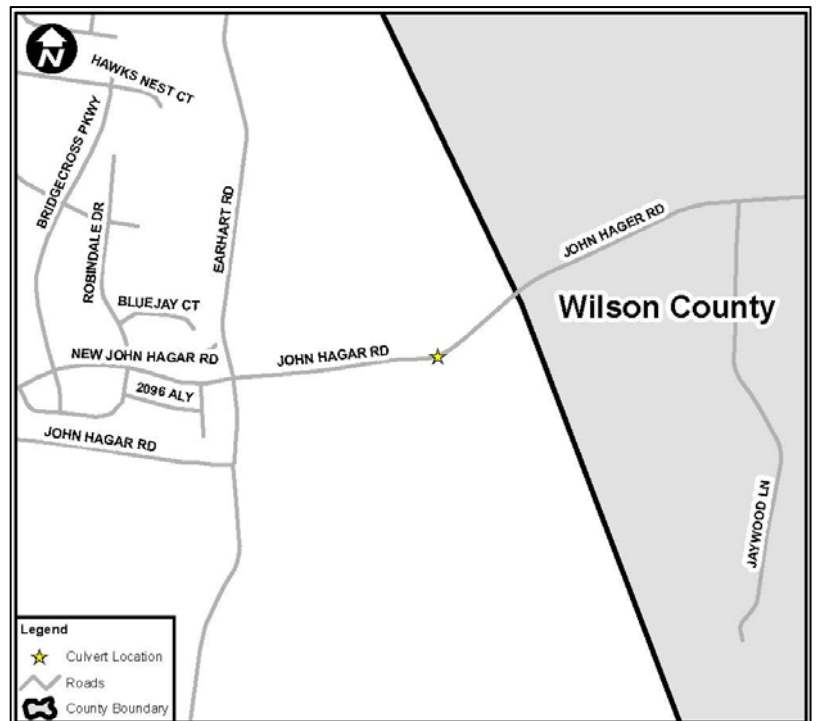
Project Status: Ready for construction

Construction Challenges:

- ✓ Coordination Between Utilities and the NDOT Annual Contractor



Project Plan View



Vicinity Map