

# 4861 Little Marrowbone Road #1 Culvert Replacement

## Existing Conditions

### Description:

The culvert inlet is located approximately 340' east of the featured address, 4861 Little Marrowbone Road. The culvert consists of a 30" corrugated metal pipe (CMP) with stone a headwall at the outlet. The outlet headwall has missing stones/mortar loss and has begun to destabilize. The pavement over the culvert has transverse and longitudinal cracks as well as an area of shoulder failure at the culvert inlet. The CMP exhibits 100% section loss due to corrosion along the CMP inverts. The downstream channel is holding water due to a lack of fall.

**Spans:** 1

**Length:** 42'

**Width:** 30"

**Rise:** 30"

### Reasons for Rehabilitation:

- ✓ Roadway/Shoulder Settlement
- ✓ Heavy Surface Corrosion & Section Loss
- ✓ Outlet Headwall Destabilization



**Roadway/Shoulder Settlement**



**Section Loss**



**Outlet Headwall Destabilization**

# 4861 Little Marrowbone Road #1 Culvert Replacement

## Proposed Conditions

### Description:

The proposed culvert replacement will include the installation of a 30' long 30" RCP culvert with reinforced concrete headwalls. The installation of channel and embankment protection as well as site restoration and roadway reconstruction.

**Spans:** 1

**Length:** 31'

**Width:** 30"

**Rise:** 30"

**Opinion of Probable Cost:** \$109,000

**Anticipated Construction Duration:** 2 Weeks

### Anticipated Schedule for Construction:

November 9<sup>th</sup> through November 23<sup>rd</sup>

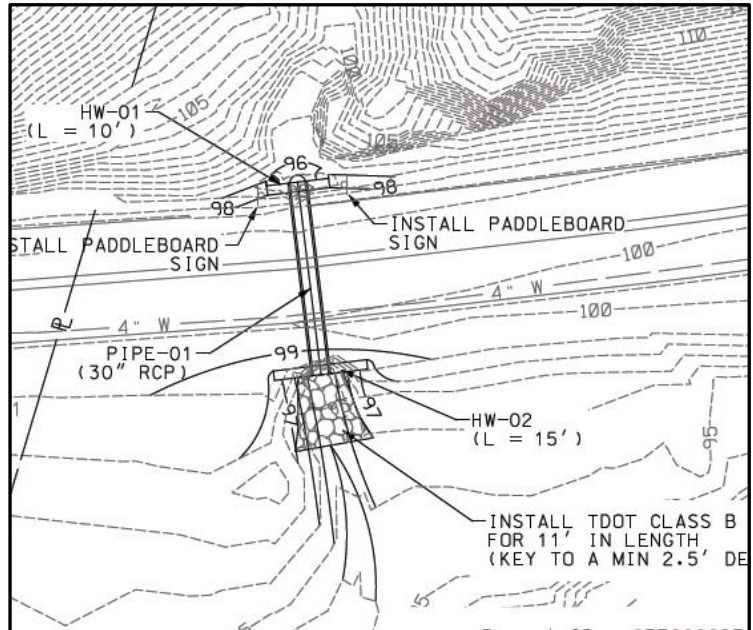
### Anticipated Intermittent Lane Closures:

November 9<sup>th</sup> through November 23<sup>rd</sup>

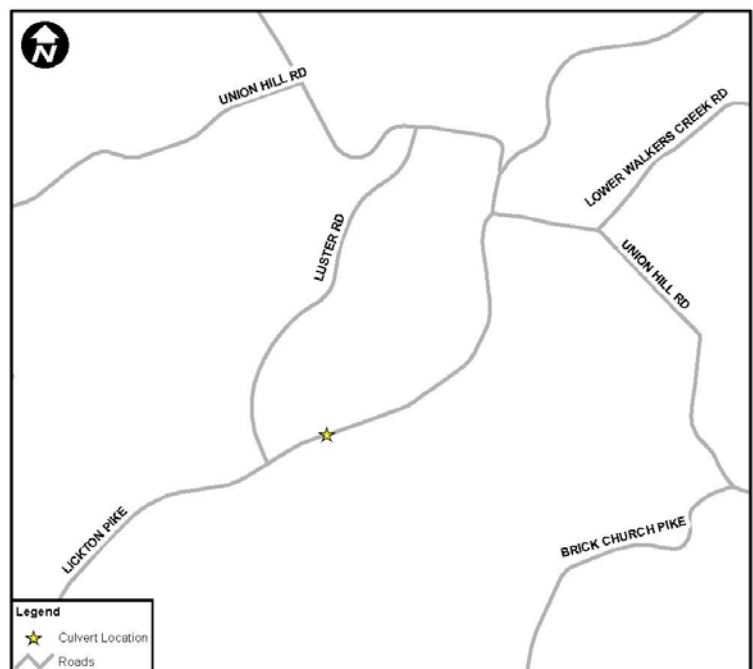
**Project Status:** Ready for construction

### Construction Challenges:

- ✓ Utility Relocation
- ✓ Site Maintenance
- ✓ Stormwater Management



Plan View



Vicinity Map

# 4861 Little Marrowbone Road #2 Culvert Replacement

## Existing Conditions

### Description:

The culvert inlet is located approximately 15' east of the featured address, 4861 Little Marrowbone Road. The culvert consists of a 24" corrugated metal pipe (CMP) at the inlet and transitions into a 24" reinforced concrete pipe somewhere under the road. There is a stone headwall at the inlet with missing stones and mortar loss. The pavement over the culvert has transverse and longitudinal cracks. The CMP has heavy surface corrosion, section loss, and the pipe has collapsed under the road. The RCP has cracking at the joints. There is sediment buildup throughout the pipe. Additionally, the pipe was not visible throughout its length due to the sediment buildup and/or due to a section of the CMP that has collapsed under the roadway.

**Spans:** 1

**Length:** 42'

**Width:** 24"

**Rise:** 24"

### Reasons for Rehabilitation:

- ✓ Roadway/Shoulder Settlement
- ✓ Heavy Surface Corrosion & Section Loss
- ✓ Outlet Headwall Destabilization



**Roadway Settlement**



**Section Loss**



**Inlet Headwall Destabilization**



# 4861 Little Marrowbone Road #2 Culvert Replacement

## Proposed Conditions

### Description:

The proposed culvert replacement will include the installation of a 46' long 38"x24" HERCP culvert with reinforced concrete headwalls. The installation of channel and embankment protection as well as site restoration and roadway reconstruction.

**Spans:** 1

**Length:** 46'

**Width:** 38"

**Rise:** 24"

**Opinion of Probable Cost:** \$109,000

**Anticipated Construction Duration:** 2 Weeks

### Anticipated Schedule for Construction:

November 16<sup>th</sup> through November 30<sup>th</sup>

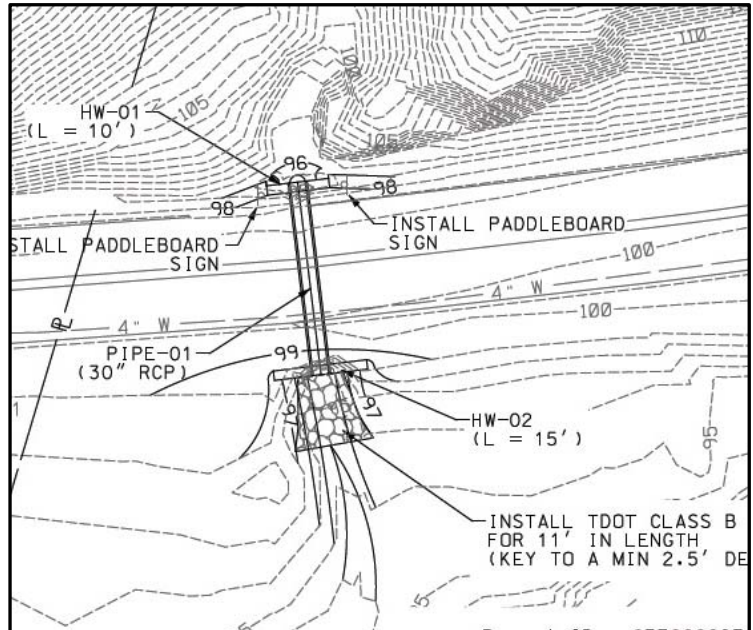
### Anticipated Intermittent Lane Closures:

November 16<sup>th</sup> through November 30<sup>th</sup>

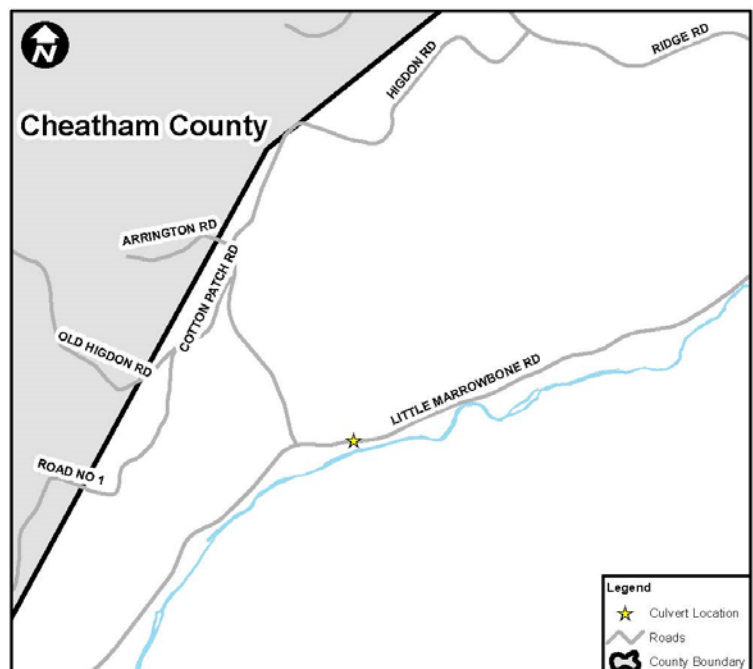
**Project Status:** Ready for construction

### Construction Challenges:

- ✓ Utility Relocation
- ✓ Site Maintenance
- ✓ Stormwater Management



Plan View



Vicinity Map