

# 305 Walton Lane Culvert Replacement

## Existing Conditions

### Description:

The culvert inlet is located approximately 48' east of the feature address 305 Walton Lane. The existing culvert consists of a 28' long 30" CMP and a natural stone masonry headwall at the inlet and a stacked stone headwall at the outlet. The pavement over the culvert area shows a longitudinal area of map cracking, and various transverse cracking throughout. The corrugated metal pipe shows corrosion with 100% section loss (measuring 1' wide and spanning the full length of the pipe). The pipe shows one major seam separation approximately halfway down the pipe showing visible sediment and open to the outlet end. The inlet headwall shows deterioration, and the outlet headwall shows failure of structure at the west end and deterioration of structural integrity at the east end.

**Spans: 1**

**Length: 28'**

**Width: 30"**

**Rise: 30"**

### Reasons for Rehabilitation:

- ✓ Roadway Cracking & Settlement
- ✓ Inlet Headwall Failure
- ✓ 100% Section Loss Throughout Pipe
- ✓ Pipe Seam Separation with Roadway Backfill Infiltration



**Pavement Cracking & Settlement**



**Section Loss & Seam Separation in Pipe**



**Failing Inlet Headwall**

# 305 Walton Lane Culvert Replacement

## Proposed Conditions

### Description:

The proposed culvert replacement shall include the installation of a 56.3' long 8'x4' Box Bridge with reinforced concrete wingwalls. Additionally, the project will require a phased construction plan in order to maintain a lane of traffic throughout the project duration. Additionally, the project will require the relocation of a water main and service lines.

**Spans:** 1

**Length:** 56.3'

**Width:** 8'

**Rise:** 4'

**Opinion of Probable Cost:** \$300,000

**Anticipated Construction Duration:** 4 Month

### Anticipated Schedule for Construction:

October 2<sup>nd</sup> through January 31<sup>st</sup>

### Anticipated Lane Closure:

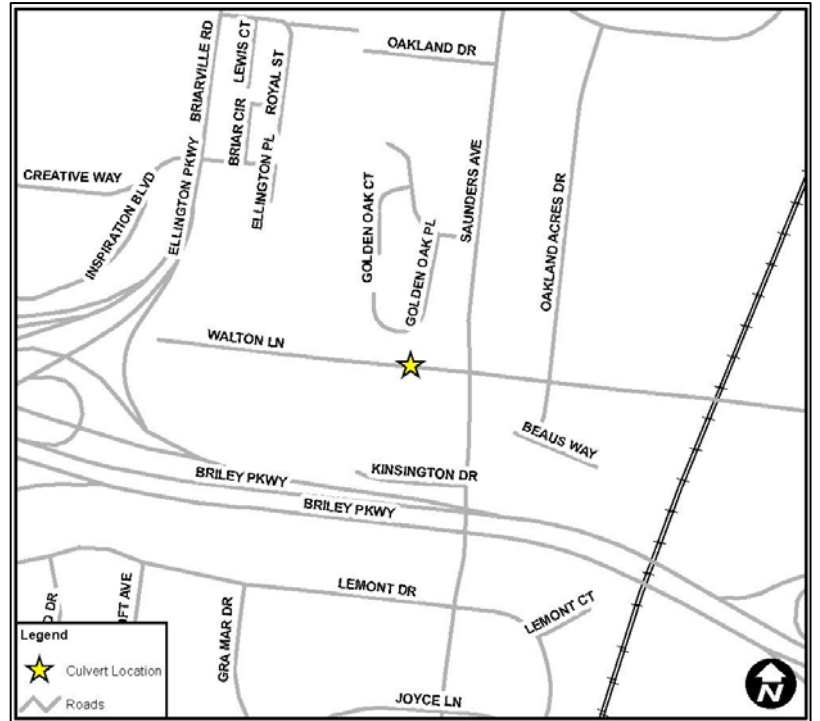
October 2<sup>nd</sup> through January 31<sup>st</sup>

(Phased Construction – One Lane of Traffic will be Open throughout the Project Duration)

**Project Status:** Ready for construction

### Construction Challenges:

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



Vicinity Map