

**PUBLIC WORKS ENGINEERING DIVISION**

## Inspection Summary

Permit #: PRPWFR20171746, Public Works Infrastructure Permit - Residential  
Manor at Stoney Creek 2nd - street, storm, sewer and water

Address:

This work has been inspected and the inspection results noted below. Please call for re-inspection once all corrective actions have been completed. Do not cover any work until approved.

Inspection Item:

| Inspection:    | Inspector:   | Outcome: | Date:                           |
|----------------|--------------|----------|---------------------------------|
| DEI-Site Visit | Brice Lawson | Partial  | Wednesday,<br>March 07,<br>2018 |

Informational

- 1 Brice Lawson 02/26/2018 3:41 PM  
I met with Jamie Kidwell and Thomas Hudgens to go over the ADA ramps, sidewalk and curb that has been installed at this site. They plan to make repairs and/or look into these issues.

Informational

- 2 Brice Lawson 02/28/2018 1:50 PM  
Brice Lawson 02/28/2018 1:46 PM  
Redford Construction is working on repairing the sags in the sanitary line segments. They have repaired and backfilled the four most west sags on the site.

Informational

- 3 Brice Lawson 03/01/2018 1:41 PM  
Redford has excavated and extended the conduit for the power supply in the ROW where it crosses Amethyst, Merryman and Alabaster.

Informational

- 4 Brice Lawson 03/07/2018 11:08 AM  
Dawn and I went to the site to discuss the items that need to be completed prior to the issuance of sub. compl. We also looked at the latest engineers cost estimate.

Kent and I discussed the as-builts and master drainage plan that have been submitted by Eng. Solutions. We discussed some of the items that need to be completed to issue sub. compl.

Resolved

- 1 A main inspection has uncovered the following problems.  
Brice Lawson 01/08/2018 11:49 AM

Existing City Sanitary Manhole #60-082 at tie-in:

Grout the sides of the pipe up to the springline of the new pipe inside the manhole. Make a smooth transition from the new pipe to the existing flowline with proper slope. Eliminate any vertical offset. RESOLVED Brice Lawson 02/15/2018 4:10 PM

MH A-1: Remove wire mesh, debris and paint from the lid RESOLVED BL

MH A-2: Remove green paint from the lid  
RESOLVED BL

MH A-3: Remove green paint from the lid  
RESOLVED BL

MH A-4: Remove green paint from the lid  
RESOLVED BL

MH A-5: Remove green paint from lid. Backfill around the frame to achieve positive drainage away the manhole frame RESOLVED BL

MH A-6: Remove green paint from the lid. Complete the backfill of the manhole frame and achieve positive drainage away from the manhole frame  
RESOLVED BL

MH A-7: Backfill around the manhole frame and achieve positive drainage away from the frame. Remove green paint from the lid. Remove excess joint mastic at the adjustment ring joint.  
RESOLVED BL

MH B-1: Remove green paint from lid. Remove excess mastic from adjustment ring joint. Properly backfill around manhole frame to achieve positive drainage away from the frame. RESOLVED BL

MH B-2: Remove debris from manhole floor, remove wire mesh, remove the vertical strip of what appears to be mastic from the barrel section, remove green paint from the lid

RESOLVED BL

MH B-3: Remove the paint from the lid

RESOLVED BL

MH E-1: Remove the excess mastic at the horizontal joints, remove debris from the manhole floor, remove the paint from the lid, raise the manhole so that the top of the lid is 2% to 4% above the back of curb RESOLVED BL

MH C-1: Remove paint from the lid, remove debris from invert bench, repair the top of the cone at the void that is allowing the mastic to fall out of the joint, complete grading around the frame to achieve positive drainage away from the frame

RESOLVED BL

MH C-2: Remove the green paint from the lid

RESOLVED BL

MH C-3: Remove green paint from the lid. Raise the manhole top so that the top is 2% to 4% above the back of the curb. Grade around the frame to achieve positive drainage away from the frame.

RESOLVED BL

MH C-4: Remove debris from the manhole floor, remove paint from the lid. Raise the manhole lid so that it is 2% to 4% above the back of curb. FYI- a maximum of 1' of adjustment rings can be used.

RESLOVED BL

MH D-1: The top of the lid does not appear to be installed at the elevation shown on the revised drawings. Make necessary corrections to get the top at the correct elevation. Replace manhole lid with the proper lid. Backfill around the frame to achieve positive drainage away from the frame.

RESOLVED BL

MH D-2: Remove paint from the lid, fill the lift hole in the cone section behind the steps, properly grade around frame to achieve positive drainage away from the frame. RESOLVED BL

Should the tracer boxes be attached to the post with something that is more durable than ductape

Tracer boxes should be installed on a post that extends atleast 3' above grade. The posts need to be painted green. RESOLVED

Lot 93-Repair tracer wire and tracer box

2/22/18 attach the tracer box to the post  
RESOLVED

Lot 99-Raise the tracer box in elevation so it is easily seen  
RESOLVED

Lot 97- Move the tracer box so that it is above the service line and 1' from the property line  
RESOLVED BL

Lot 98-Repair broken tracer wire and retest the tracer wire in the presence of an inspector  
RESOLVED BL

Lot 78-repair the tracer box post  
RESOLVED BL

Lot 42-Attach the tracer wire to the tracer box  
RESOLVED

Lot 69-Install the tracer box on a post at least 3' above grade  
RESOLVED

Lot 48-Install the tracer box on a post at least 3' above grade RESOLVED BL

Lot 65-paint the tracer box post green  
RESOLVED

Lot 64-paint the tracer box post green  
RESOLVED BL

Lots 63, 62, 61, 60, 58, 57, 56, 55-paint the tracer box post green  
RESOLVED BL

Lot 54-repair/replace tracer box post and paint green  
RESOLVED BL

#### Informational

2 A main inspection has uncovered the following problems.

Brice Lawson 01/22/2018 3:46 PM

The invert for the existing MH #60-082 has been installed. It looked like it was very flat after installation. I looked at it today after the weekend and the sewage is not draining properly from this manhole. I plan to follow up with Water Utilities to see if they need to look at the line segment below this manhole.

#### Corrective Action Required

3 A main inspection has uncovered the following problems.

Brice Lawson 02/15/2018 4:16 PM

The following sags in the sanitary mains were found during the video inspection. Make proper corrections.

sag starts @ 53' to 58' from MH 60-282 B/F 2/28/18

sag starts @ 62' to 71' from MH 60-282 B/F 3/2/18

sag starts @ 95' to MH 60-281 B/F 3/2/18

sag starts @ 73' to 85' from MH 60-278 B/F 2/28/18

sag starts @ 376' to MH 60-279 B/F 3/1/18

sag starts @ 264' to 270' from MH 60-287 B/F 2/27/18

sag starts @ 336' to MH 60-286 B/F 2/27/18

sag starts @ 261' to 266' from MH 60-285 upstream B/F 2/27/18

sag starts @ 228' to 241' from MH 60-293 B/F 2/27/18

The service connection is 3.5' from MH 60-285. Wyes should not be installed any closer than 4' to a manhole. Make proper corrections.

Brice Lawson 02/26/2018 3:43 PM

The service connection was measured by Redford and the Water Dept. and was confirmed to be 4' from the manhole. No repair needed. RESOLVED

Brice Lawson 03/05/2018 9:07 AM

All nine of the sags were repaired by Redford Construction. They excavated down to the pipes, picked up the pipes and chalked rock under the pipes to repair the sags. All of the repaired areas have been backfilled.

Informational

4 Brice Lawson 02/26/2018 3:53 PM

Redford has excavated down to the sewer main to repair the sag located upstream of MH 285 and the sag located 336' from MH 60-287 to MH 60-286.

Informational

5 Brice Lawson 03/01/2018 1:32 PM

Redford Construction let me know that the following sags have been repaired. The excavated areas have also been backfilled. They let me know that the marker tape is being installed in the trench.

Sags:

between D-1 and D-2

between C-1 and B-3

between B-1 and B-2

between A-6 and A-5

between A-2 and A-1

They have excavated down to the sags between A-3 and A-2 and are in the process of repairing the sags.

Informational

6 Tom Chandler 03/02/2018 3:44 PM Finished repairs to line from MH A-2 to MH A-3 and backfilled. Added adjustment ring to MH that needed it.

DEI-Storm - Sewer  
Construction Inspection

Brice Lawson

Partial

Wednesday,  
March 07,  
2018

Partial Correction

1 Corrections need to be made to the Storm Sewer  
Brice Lawson 01/18/2018 4:34 PM

Remove excess concrete from the openings of all curb inlets  
RESOLVED

The 36" storm pipe between FES 6-1 and CI 6-2 appears to be seperated and squashed.  
Make proper corrections. This may have been damaged during road construction.

CI 6-2 Remove lift cables  
RESOLVED BL

CI 6-3 Grout the front corners of lid at the inlet frame  
RESOLVED BL

CI 6-4 Grout the front corners of lid at the inlet frame  
RESOLVED BL

CI 6-5 Grout the front corners of the lid at the inlet frame  
RESOLVED BL

FI 3-2 Remove lift cables, grout lid so it does not teeter  
RESOLVED BL

JB 3-1 Remove paint from the lid  
RESOLVED BL

FI 3-3 Grout the lid so it does not teeter, grout pipe collars, add a step, remove lift cables,  
align the concrete lid with the structure  
RESOLVED BL

FI 3-4 Align the concrete lid with the structure, remove lift cables, grout gap at corners  
where lid meets the structure, grout collars  
RESOLVED BL

FI 3-5 Remove lift cables, grout the lid at the corners, align the concrete lid with the structure walls  
RESOLVED BL

FI 8-1 Align the concrete lid with the structure walls, remove the lift cables and the debris from the weir openings  
RESOLVED BL

FI 5-6 Remove the lift cables, align the concrete lid with the structure, grout corners where lid meets the structure, grout the collar, remove debris from the weir openings  
RESOLVED BL

FI 5-5 Add a step, grout collars grout corners so the concrete lid does not teeter, remove lift cables align the concrete lid with the structure, remove debris from the weir openings  
RESOLVED BL

CI 5-4 Replace the damaged step, remove the anchor bolt from the wall, finish grouting the lid, install the invert bench to guide the water thru the turn  
STEP NOT COMPLETE AS OF 2/27/18  
RESOLVED

CI 5-3 Remove the lift cables, replace the cover with the proper cover  
RESOLVED BL

JB 5-2 Remove paint from the lid, fill the voids and grout collars  
RESOLVED BL

Outlet Structure Remove lift cables, grout lift holes, align the lid with the structure walls, grout lid to structure joint, add steps, align the top and bottom structure sections

CI 4-5 Remove lift cables, add a step, remove debris  
RESOLVED BL

CI 4-4 Add a step  
RESOLVED BL

CI 4-3 Remove anchor bolt from the wall  
RESOLVED BL

FI 2-6 Align the concrete lid with the structure, remove lift cables and grout collar  
RESOLVED BL

FI 2-5 Grout concrete lid so it does not teeter, align the concrete lid with the structure, grout collar, align steps, remove lift cables

RESOLVED BL

FI 2-4 Add steps, remove lift cables, align the concrete lid with the structure

RESOLVED BL

FI 2-3 Remove lift cables, grout collars, align the concrete lid with the structure

RESOLVED BL

Informational

2 Brice Lawson 02/27/2018 12:24 PM

Redford informed me that the corrections have been made to the storm structures so far. I re-inspected the storm structures for lines 3, 6, 8 and part of line 5. I will mark off the corrections on the original inspection at a later time.

Partial Correction

3 Corrections need to be made to the Storm Sewer

Brice Lawson 03/06/2018 11:42 AM

CI 2-1-Remove access HDPE pipe that extends into the CI. fill the lift holes and remove the silt/debris from the invert so it can be inspected.

RESOLVED

Existing FI on storm line 1-Remove the silt and water so it can be inspected. It appears that the concrete invert has been washed out. Make proper corrections.

FI 1-1 - Remove the silt from the structure so it can be inspected

RESOLVED

Outlet structure - Remove the silt from the outlet structure

**Comments:**

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