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**PUBLIC WORKS ENGINEERING DIVISION**

## Inspection Summary

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Permit #: PRPWFR20171420,  
CREEKSIDE AT RAINTREE  
Address:

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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.

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Inspection Item:

Inspection:	Inspector:	Outcome:	Date:
DEI-Sanitary Sewer - Air Test	John DiMauro	Passed	Friday, June 29, 2018

Informational

- 1 Brice Lawson 02/15/2018 5:10 PM  
The following sanitary line segments were are tested:

MH 1-A1 to MH 1-A2  
Start 4 psi  
End 4 psi  
Test Duration 7:34  
Test Passed

MH 1-A2 to MH 1-A3  
Start 4 psi  
End 3.95 psi  
Test Duration 7:34  
Test Passed

MH 1-A3 to MH 1-A4  
Start 4 psi  
End 3.9  
Test Duration 7:37  
Test Passed

Informational

- 2 Brice Lawson 02/15/2018 5:20 PM  
The following sanitary line segments were air tested:

MH 1-A4 to MH 1-B1  
Start 4.0 psi  
End 3.95 psi  
Test Duration 7:34  
Test Passed

MH 1-A4 to MH 1-A5  
Start 4.0 psi  
End 3.9 psi  
Test Duration 7:34  
Test passed

Informational

3 Brice Lawson 02/23/2018 3:46 PM  
The following line segments have been tested.

MH 1-A5 to MH 1-A6  
Test Start 3.95 psi  
Test End 3.95 psi  
Test Duration 7:34  
Test Passed

MH 1-A6 to MH 1-A7  
Test Start 3.95 psi  
Test End 3.95 psi  
Test Duration 7:34  
Test Passed

Informational

4 Brice Lawson 02/26/2018 11:00 AM  
The air test was performed on the 8" PVC line segment from existing City MH 64-003 to MH 1-A1. Test Start: 3.8 psi  
Test Ended at 3.8 psi  
Test Duration 7:34 min.  
Test Passed

Informational

5 Sanitary sewer air testing for the section of line that was repaired of sags.

Line segment from MH A-7 to A-6  
The test began at 4 psi.  
Test ended at 3.5 psi.  
Test duration 7:34  
Test Passed

Line Segment from MH A-4 to A-3

The test began at 3.9 psi.  
Test ended at 3.7 psi.  
Test duration 7:34  
Test Passed

The line Segment from MH A-6 to A-5 will be air tested next week due to problems with the size of the plug and the curve of the invert. The crew will provide a smaller plug to complete the air test.

Informational

6 John DiMauro 05/31/2018 10:07 AM

Precision performed the air test on approximately 300'ft of the 12" sanitary line segment from MH1-C1 to MH1-C2.

Test Start: 3.7 PSI  
Test End: 2.8 PSI  
Duration: 17:06 Min  
Test Passed

Precision performed the air pressure test on approximately 200'ft of the 8" line segment from MH1-A6 to MH1-A5.

Test Start: 3.8 PSI  
Test End: 3.8 PSI  
Duration: 7:34 Min  
Test Passed

Informational

7 Brice Lawson 06/27/2018 12:08 PM

I showed up to the site to witness the air testing on sanitary line C. The contractor did not have the equipment to complete the testing. I let him know to call back to reschedule a time to test.

Informational

8 John DiMauro 06/29/2018 3:52 PM

David Duncan Construction LLC crew performed the air test on the 12" sanitary sewer line segments from MH 1-C2 to the existing MH to the North & MH 1-C1 to the existing MH the the south.

MH 1-C2 to North MH:  
Test Start: 3.8 PSI  
Test End: 3.7 PSI  
Duration: 11:20 Min  
Test Passed

MH 1-C1 to South MH  
Test Start: 3.8 PSI  
Test End: 3.7 PSI  
Duration: 11:20 Min  
Test Passed

DEI-Sanitary Sewer  
Construction Inspection

Brice Lawson

Partial

Friday, June  
29, 2018

Partial Correction

- 1 A main inspection has uncovered the following problems. Brice Lawson 04/05/2018 11:26 AM

Sags and debris have been identified in the following sanitary line segments. Make proper corrections to these line segments. Coordinate inspections with the inspector for this site.

Sag @ 90' to 97' from MH 62-208 to MH 62-207

Debris @ 97' to MH 62-207

Brice Lawson 04/12/2018 4:09 PM/// Ace Pipe Cleaning jetted this line segment and removed the debris.

Sag @ MH 62-208 to 8'

Sag @ 190' from MH 62-208 to MH 62-209

Sag @ 286' to 292' from MH 64-168 to MH 64-167

Sag @ 238' to 244' from MH 64-168 to 64-167

Complete mandrel testing and infiltration/exfiltration testing on the line segments that the sags were repaired 30 days after backfill completion.

Informational

- 2 Brice Lawson 04/06/2018 12:13 PM  
Precision is working on repairing the sags between MH 64-168 and MH 64-167. They have excavated down to the pipe and raised it about a 1/4" and chocked in the rock under the pipe at one of the sags and installed bedding rock over the pipe. KCTE Testing is on site to perform compaction testing of the trench backfill.

Informational

- 3 Brice Lawson 04/07/2018 2:43 PM  
Precision is working on repairing the sags in the sanitary line segments. The two sags between MH 64-168 and MH 64-167 have been repaired. The trenches have been backfilled. KCTE Testing is on site performing compaction testing. John let me know that the tests are at least 95% for the trench backfill.

Precision has excavated down to the sag just north of MH 62-209. They are in the process of repairing the sag. The pipe has been covered with clean rock after the sag was repaired. They shined a flashlight in the pipe and discovered there is debris at this sag location.

Informational

4 Brice Lawson 04/09/2018 1:15 PM

Precision has finished repairing and backfilled the sag @ 190' from MH 62-208 to 62-209.

They have repaired the sag @ MH 62-208 to 8'. They have began backfilling and KCTE Testing is on site. Eric with KCTE Testing let Precision know that three tests for this backfill have failed due to moisture content and compaction. They plan to make proper corrections.

Precision is excavating the trench to repair the sag at 90' to 97' from MH 62-208 to MH 62-207.

Informational

5 Brice Lawson 04/10/2018 11:31 AM

Precision has repaired the sag @ 90' to 97' from MH 62-208 to MH 62-207. A water main pipe was encountered that crossed this trench during this repair and the contractor said they bedded the water line with clean rock prior to covering. The pipes have been covered but the trench has not been backfilled.

Informational

6 Brice Lawson 04/11/2018 8:29 AM

The excavation to repair the sag @ 90' to 97' from MH 62-208 to MH 62-207 was backfilled on 4/10/18. I spoke with KCTE Testing on site and they let me know that the compaction test were passing and the fill was installed in 8" compacted lifts.

The sag excavation @ MH 62-208 to 8' is being backfilled now. KCTE Testing is on site and performing compaction testing. It appears that the backfill is being installed and compacted in lifts.

Video footage of the sanitary video inspection was loaded onto a thumb drive at the contractors request. I gave the thumb drive to Precision.

Corrective Action Required

7 Brice Lawson 04/11/2018 8:34 AM

The sanitary line marker tape has not been installed at some of the sag repair locations. The only sag repair location that the marker tape was installed is at the sag locations between MH 64-167 and MH 64-168. I brought this up to Precision and they plan to come back and install the marker tape at a later time.

Properly install the marker tape at the sag repair locations.

Partial Correction

8 Brice Lawson 06/26/2018 7:23 AM

On 6/25/18 I noticed sewage running out of a damaged existing 10" city sewer main. The

flow was running into a trench and continued to flow from the trench into the downstream pipe. The damaged vcp was damaged approx. 172' downstream of mh #62-003. Aaron Schleif informed me that the line was damaged last tuesday or wednesday. I let him know that the city needs to be notified promptly when city infrastructure is damaged. I Aaron know that the damaged pipe needs to be repaired asap. David Duncan Construction LLC worked until about 7:15pm attempting to make the repair. More pipe was damaged in the process of making the repair and a temporary repair was made until they could get the correct parts tomorrow. David Duncan plans to make the proper repairs tomorrow. I called Tom Stoetart after it was determined that the proper repair could not be made and he let me know that the contractor can make the proper repairs tomorrow.

Make proper corrections to the damaged sanitary sewer main.

Brice Lawson 06/26/2018 4:01 PM

At 10:00 there has been no further work completed to properly repair the VCP sanitary sewer main. I called David Duncan to see why they were no here completing the repair. He did not answer, I left a V/M to call me.

I also called Jake Jackson to see if he knew when the pipe was going to be repaired. He said he would call me back.

Brice Lawson 06/26/2018 4:14 PM

At about 2pm I had not heard anything from Jake. I called and he said he would look into getting the parts for the repair.

Jake came to the site and he let me know that they planned to repair the damaged pipe tomorrow morning.

Brice Lawson 06/27/2018 11:59 AM

The damaged 10" VCP has been replaced with approx. 17' of 10" SDR 26 sewer pipe. The connections to the existing VCP at both ends were made with strong back couplers. Brent Dye was on site and had a concern with water movement near the south coupler. He plans to have the water dept. perform a video inspection inside the sewer main around the damaged area to see if there are any problems. He plans to get back with me to let me know if anything is noticed during the video inspection that would need to be corrected.

Brice Lawson 06/29/2018 11:36 AM

On 6/28/18 the upstream and downstream manholes were opened to perform a mandrel test. It appeared that the sanitary sewer was flowing fine at both manholes.

I also answered the contractors questions about the sewer testing, flushing and went over his plan for the proposed work that will be done to the existing manholes that sanitary line C ties into.

**Comments:**

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