

PUBLIC WORKS ENGINEERING DIVISION

Inspection Summary

Permit #: PRSUBPWFR20171420, Development - Subdivision

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-Water Line - Construction Inspection Informational | Brice Lawson | Partial | Tuesday, April 10, 2018 |

1 Brice Lawson 01/29/2018 3:10 PM
The contractor has began installing the 8" PVC water main for water main 1-1 from approx. STA. 1+36 towards the east. The pipe is being bedded in clean rock. The fire hydrant at STA. 1+91.45 has been moved to STA. 1+96.45 due to an existing power line. The hydrant has been set on a concrete block that is approx. 2' by 2'.

Informational
2 Brice Lawson 01/30/2018 4:04 PM
Precision has installed 8" C900 PVC water main on line 1-1 from approx. STA. 2+60 to approx. STA. 3+52. An 8" Tee and 8" Mueller gate valve were installed with the valve on the west side of the tee. The 8" C900 water line has been installed from STA. 5+40 to approx. STA. 6+98.1. The pipe was connected to the tee fitting at STA. 6+98.1. The pipe is being bedded and covered with clean rock. The tracer wire is being taped to the top of the pipe. It is difficult to verify that the water line is being placed as shown on plans as there are very few off set stakes and no F/L elevations for the water main.

Informational
3 Brice Lawson 01/31/2018 1:28 PM
Precision has installed the water main on line 1-2 from STA. 5+40 to STA.4+66.63. The fire hydrant and 6" gate valve have been installed at STA. 4+78.70. The pipe is being bedded in clean rock. The tracer wire is being installed along the top of the pipe. The water main is 4' to 5' below existing grade.

Informational
4 Brice Lawson 02/02/2018 11:24 AM
The water line for line 1-2 has been installed from STA. 3+20 to STA. 1+99. The 8" C900 water pipe is being installed on a bed of clean rock. The tracer wire has been installed

above it. The 45 degree bends have been installed and the bolts have been sprayed with under coating. The fittings have been wrapped with poly wrap and sealed with tape.

It appears that the end of the sanitary service stub for lot 24 does not extend to the north side of the water line. I asked Jake with Precision if they would want to extend this now while they know where the lines are. He is going to check with the developer.

Informational

5 Brice Lawson 02/07/2018 3:07 PM

Precision has installed the 8" PVC water main from the tee fitting at STA. 6+98.91 to approx. STA. 9+89.00. The 8" Mueller 2361 gate valve was installed at STA. 6+98.91 on the south side of the tee fitting. The tee fitting has been installed at STA.7+90.54. The pipe is being bedded in clean rock. The tracer wire is being installed along the top of the pipe. Epoxy splice connectors are being used.

Informational

6 Brice Lawson 02/08/2018 5:21 PM

The 8" C900 water main has been installed from STA. 9+89 to STA. 12+00. This section of water main was installed and backfilled before it was inspected. It appears tracer wire was installed with this pipe. It appears that the marker tape has been installed. This section of water main trench was being backfilled and the soil was being compacted with a sheepsfoot compactor. KC Testing was on site performing compaction testing on the trench backfill. The tester informed me that the test are passing and that the compaction efforts appear to be proper.

The contractor has excavated a trench to install the water main from STA. 12+00 to STA. 14+16.58. I informed the contractor that the trench looks too deep according to the proposed fill on the plans. He checked his grade and confirmed that the trench was excavated too deep. He plans to backfill the trench and get compaction tests performed on the fill. I will be off on vacation the next couple days and Tom Chandler will be covering this project. Tom came out to the site today and I informed him of what is going on with the water main trench. He is aware of this issue.

Informational

7 Backfield and tested from station 12+00 to station 14+10. Will install water later today.

Informational

8 Tom Chandler 02/09/2018 3:59 PM Installed from station 12+00 up to station 14+10. Will install hydrant and thrust restraints on 2/12/2018.

Informational

9 Tom Chandler 02/12/2018 4:24 PM Was working on some hydrants today. Did not really get much done on them. Planning on pouring thrust restraints on 02/13/2018.

Informational

10 Brice Lawson 02/13/2018 3:33 PM

Precision is working on installing the water main and fire hydrant for water line 1-2 near STA. 13+96.94. They let me know that they will not have 42" of cover over the main at the tee for the hydrant. They also dont think that the hydrant will stand plumb. I suggested that they talk to the design engineer about these issues. I also suggested getting survey

stakes that show finish grade elevations and top of water main elevation so the water main elevation could be verified on site.

Informational

11 Brice Lawson 04/10/2018 3:32 PM

A revision to water line 1-2 dated 4/5/18 was submitted, approved and delivered to the contractor. The revision includes moving the water line to the east at the southeast side of the south cul-de-sac.

DEI-Storm - Sewer
Construction Inspection

Brice Lawson

Partial

Tuesday,
April 10, 2018

Informational

1 Brice Lawson 12/19/2017 3:55 PM

CI 1-20E and CI 1-20D have been installed on a bed of clean rock. The 15" ADS HDPE storm pipe has been installed between these curb inlets. The pipe has been bedded on clean rock. The inverts, interior and exterior collars have been installed at these curb inlets. Approx. 130' of the 18" ADS HDPE has been installed in the trench but it has not been covered with rock.

Informational

2 Brice Lawson 12/20/2017 3:22 PM

The 130' of 18" HDPE from CI 1-20D towards CI 1-20C has been bedded and covered with clean rock.

Informational

3 Brice Lawson 01/09/2018 11:39 AM

Precision is installing the storm structures and HDPE storm pipe for storm lines 1-10 and 1-11. It appears that the pipes are being installed on a bed of clean rock. The bell ends are facing up hill.

The hdpe pipe has been installed between CI 1-10C and MH 1-10B. The trench width is too narrow. I informed George of this and he said they plan to dig this trench wider.

Informational

4 Tom Chandler 01/25/2018 7:21 AM Installed the remaining 30" HDPE pipe for line 1-10. Installed last section towards MH 1-10B. Did not backfill.

Informational

5 Tom Chandler 01/25/2018 4:40 PM Installed 53 ft. of 24" HDPE pipe from MH1-10E to MH 1-10F. Installed MH 1-10F as well. Installed MH 1-10F at station 5+86. Backfilled with rock and will pour collars and inverts on 1/26/2018.

Informational

6 Brice Lawson 02/08/2018 5:38 PM

CI 1-20C has been installed it is 5' by 3'. The remainder of the 18" HDPE storm pipe was installed from the curb inlet to the previously installed pipes. The collars have been installed. The invert has been installed. The CI was installed on a bed of clean rock.

Corrective Action Required

7 Brice Lawson 03/27/2018 1:45 PM

MH 1-10D was originally designed to have a 4" frame. The contractor has recieved a approved change to install a 9" frame.

It appears that the bell has been removed from the underside of the concrete lid. The spigoet has been removed from the top of the manhole wall. It appears that bars have been installed @12" O/C and it appears that epoxy has been applied to the holes. The frame has been installed. The 4" adjustment ring has not been installed. The contractor stated that they would have to remove more of the top of the manhole wall to use the adjustment ring. I asked Dan about this and he is ok with the adjustment not being installed.

It does not appear that the frame has been sealed to the concrete lid. I aske Jake with Precision about this and he is going to check on this.

Informational

8 Brice Lawson 04/10/2018 3:39 PM

A revision to storm line 1-20 dated 4/5/18 has been submitted, approved and delivered to the contractor. This revision was done due to a conflict with the existing sanitary force mains.

DEI-Sanitary Sewer
Construction Inspection
Corrective Action Required

Brice Lawson

Partial

Tuesday,
April 10, 2018

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' form MH 62-208 to MH 62-207
Debris @ 97' to MH 62-207

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.

Corrective Action Required

4 A main inspection has uncovered the following problems.

Precision noticed debris in the sanitary line segment between MH 62-209 and MH 62-208. The debris is approx. 8' north of MH 62-209.

Flush the line and remove the debris.

Informational

5 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

6 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.

Comments:
