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**PUBLIC WORKS ENGINEERING DIVISION**

## Inspection Summary

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

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:

<b>Inspection:</b>	<b>Inspector:</b>	<b>Outcome:</b>	<b>Date:</b>
DEI-Grading/Excavation/Fill Inspection	Brice Lawson	Partial	Thursday, December 21, 2017

Informational

- 1 Brice Lawson 12/21/2017 11:38 AM  
Moisture and density test results have been submitted for the water main trench backfill for water lines #1 and #2. It appears that all of the tests passed.

Informational

- 1 Brice Lawson 08/09/2017 2:45 PM  
Spalding Excavating began digging the temporary sediment basin. They are stripping and stock piling the top soil on the central part of the site. I spoke with Jason regarding the detention basin and he plans to build it after the cut is made in that location.

Informational

- 2 Brice Lawson 08/17/2017 10:02 AM  
Spalding has roughed in the detention basin in the southwest corner of the site. They are performing a fill in the south portion of the site. They have roughed in the temporary sediment basin located on the north edge of the site.

Informational

- 3 Brice Lawson 08/17/2017 3:45 PM  
Spalding began stockpiling large rock and dirt west of the temporary sediment basin.

Informational

- 4 Brice Lawson 09/01/2017 3:42 PM  
Spalding continues to grade outside the ROW. They were grading, filling and compacting the sump areas north of future Merryman Dr.

Informational

- 5 Brice Lawson 09/05/2017 11:01 AM  
Spalding is grading the area north and east of the permanent detention basin. A sheepfoot

compactor is being used on parts of this area.

Redford is removing and hauling excess dirt that is left over after the major grading was completed east of SW Stoney Creek Dr. This grading was performed after sanitary line A and U were installed. The excess dirt is being hauled and stock piled on the west side of the site north of proposed Merryman Dr.

Informational

- 6 Tom Chandler 09/15/2017 11:11 AM Backfill on sanitary sewer main being placed today. No testing has been done today. If testing lab can make it to site today they will backfill (3) roadway crossings.

Corrective Action Required

- 7 Brice Lawson 09/27/2017 11:33 AM  
I informed Mike with KC Testing, Thomas Hudgens and Darrin that the compaction test reports for the sanitary trenches that have been submitted so far do not have documentation for a visual inspection of the initial backfill that is being placed in the trenches. KC Testing will not perform moisture density testing of trenches that are too deep due to safety reasons. I informed them that the City will need documentation of visual inspections of the backfill of the sanitary trenched up to the point where KC Testing can perform the moisture density testing.

Informational

- 8 Brice Lawson 11/15/2017 10:30 AM  
A crew is using a blade and a scraper and has began final grading and shaping of the proposed road subgrade on Merryman Ln and Amethyst Dr.

Informational

- 9 Brice Lawson 11/21/2017 11:33 AM  
The road subgrade on this project has some areas that appear to be too wet. The contractor has scarified the entire road width on Amethyst north of approx. STA. 2+00 to approx. STA. 3+60. Areas on Merryman are being removed and replaced with soil that appears to be dryer.

Corrective Action Required

- 10 Brice Lawson 11/27/2017 3:36 PM  
The swale that is east of Pryor Rd and on the north side of County Line Rd has been partially filled in with dirt. This was done when the new storm pipe was being installed. The new storm pipe and the existing water line were at the same elevations. This area has not been backfilled.

I let Darren with Redford know that there is a resident is concerned that the ditch will not drain properly and back water up onto his property. Darren plans to backfill the storm sewer trench and allow any storm water to drain from the culvert that runs east and west under SW Pryor Rd at County Line Rd.

Corrective Action Required

- 11 Brice Lawson 11/27/2017 3:40 PM  
The existing City FI that storm line 1 connects to is holding approx. 1.5 feet of water. There is a CMP that runs from this FI and eventually daylights at a FES on the south side of County

Line Rd. The FES is under water and it appears that the ditch below this FES is higher than the FES. This is causing the water to back up and hold in the pipes and storm structures that are above it.

DEI-Water Line - Construction Brice Lawson  
Inspection

Partial

Thursday,  
December  
21, 2017

Informational

- 1 Brice Lawson 11/10/2017 11:30 AM  
Redford installed 40' of 8" C900 water main with tracer wire and water line marker tape. The line appeared to be installed at least 42" from current grade. The pipe was bedded in clean rock. This line was installed on water line 1 from approx. STA. 11+48 to approx. STA. 11+88. The line was being backfilled in lifts. The trench was opened up over 48" wide and KC Testing was on site to perform compaction testing.

Informational

- 2 Brice Lawson 11/10/2017 2:57 PM  
Redford installed 40' of 8" C900 water line on water line 1 from STA 3+25 to STA. 3+65. Tracer wire and bury tape have been installed with this water line.

Informational

- 3 Brice Lawson 11/13/2017 11:47 AM  
Redford installed the 8" C900 water line with tracer wire for water line 1 from approx. STA. 0+29.17 to STA. 1+39.99. The Tee fitting has been installed at STA. 1+39.99.

Informational

- 4 Brice Lawson 11/13/2017 2:46 PM  
Redford installed the 8" gate valve on line 2 near STA. 0+00. Approx. 74' of C900 water line has been installed from STA. 0+00 to approx. STA. 0+74. Tracer wire has been installed with this pipe and utility marker tape is being installed in the trench. Two vertical 45 degree bend fittings have been installed with rebar loops around the fittings. The rebar loops have been installed in a thrust block below the 45 degree fittings. KC Testing is on site to observe compaction testing for the water line. The DI fittings have been wrapped in 12 mil poly wrap and the T bolts have been sprayed with an undercoating.

A thrust block has been installed on the 45 degree bend fitting on line 1 at STA.0+95.15.

MCIB WA610 concrete was used for the thrust blocks.

Informational

- 5 Brice Lawson 11/14/2017 1:23 PM  
Redford installed an 8" Clow gate valve just west of the Tee fitting located at STA. 0+00 on water line 2. A 1' piece of C900 was installed between the valve and the tee fitting. A thrust block has been installed on the tee fitting. A tracer wire has been installed over to the tee fitting.

Informational

- 6 Brice Lawson 12/08/2017 8:00 AM

Redford has installed the 8" water main for water line 1 from approx. STA. 3+65 to approx. STA. 10+00. The majority of this line has been backfilled. The areas that have not been backfilled show that the pipe is being bedded in clean rock, the tracer wire has been installed and the marker tape is being installed. It appears that the pipe is at least 42" deep. The Tee fittings have been installed for both of the fire hydrant sets on this run of pipe.

It appears that the 8" water main has been installed from approx. STA. 2+10 to approx. STA. 5+13. It appears that the line is being bedded in clean rock, tracer wire has been installed and marker tape has been installed. The majority of this line has been backfilled. A thrustblock has been installed behind the tee fitting at STA. 2+92.5. It appears that the pipe is at least 42" deep at the areas that have not been backfilled.

Informational

7 Brice Lawson 12/08/2017 3:08 PM

The 8" water main for line 1 has been installed from approx. STA. 10+10 and connected on the east side of Grindstone where it was previously installed under grindstone. The Tee fitting and 2 gate valves have been installed on the east and south side of the Tee fitting. A thrust block has been installed behind the tee fitting. The DI fittings appear to be wrapped and the tracer wire has been installed. A thrust block has been installed behind the Tee fitting at STA. 8+36.84 on line 1. A thrust block has been installed behind the tee fitting for the hydrant assembly shown at STA. 4+61.84. When I measured the distance of this tee fitting to the back of the curb on Alibaster, it appeared that the tee fitting is 5' east of where it scales on the plans. I let Darren with Redford know about this and he said that the Tee was installed according to the survey stakes provided.

Informational

8 Brice Lawson 12/11/2017 1:54 PM

The 8" C900 water line #4 has been installed from the 8" valve at STA. 0+00 to approx. STA. 1+06. The pipe appears to be bedded in clean rock. The tracer wire has been installed and it appears that marker tape is being installed 18' to 24" below grade. It appears the the water line is at least 42" below grade. The existing 12" water main at the proposed tie-in location at 1+39.67 has been exposed. The contractor plans to cover the exposed line with blankets to insulate during the cold weather.

Redford is workin on installing the water line #1 from the 8" gate valve at STA. 1+39.99 towards the west. 3-20 sections of pipe have been installed. The pipe is being bedded in clean rock. It appears that the pipes are at least 42" below grade.

Informational

9 Brice Lawson 12/12/2017 2:39 PM

The remainder of water line 1 from approx. STA. 2+00 to STA. 3+25 has been installed.

Water line 3 has been installed from STA. 0+00 to approx. STA. 1+25. A temp. blow off has been installed at STA. 1+25. The two gate valves and Tee fitting have been installed at STA. 0+00. The gate valves are installed on the south and west sides of the tee fitting. Tracer wire has been installed. Schedule 40 valve boxes have been installed with the tracer wire

running up the outside of the valve box. The existing 12" main has been exposed at the tie-in location on water line 3. Concrete blankets have been installed to insulate during the cold weather.

The existing 12" water main at the tie-in to existing on water line 4 has been covered with mulch to act as insulation during the cold weather.

Informational

10 Brice Lawson 12/21/2017 9:32 AM

The 8" water water main has been flushed at all of the fire hydrants and at the temporary blow offs that have been installed at the ends of the lines near the proposed tie-in at Alabaster and Merryman. This flush was performed after the hydrostatic test was performed.

Informational

11 Brice Lawson 12/21/2017 3:11 PM

Redford chlorinated the water lines #1, #2, #3 and #4 to. It appeared that the chlorine level was at a minimum of 25 mg/l at the ends of the lines and at the fir hydrants.

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Resolved

10 A main inspection has uncovered the following problems.

Brice Lawson 12/13/2017 3:03 PM

Replace the blue polywrap that has been installed at the fire hydrant with clear polywrap.

Brice Lawson 12/21/2017 9:53 AM

RESOLVED

I spoke with Darren and he let me know that the blue polywrap was replaced with clear.

Redford is working on installing the fire hydrants on this site.

Informational

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**Comments:**

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