

**AGENDA**  
**REGULAR DRAINAGE MEETING**  
**Wednesday, April 28, 2021**  
**Large Conference Room**

**This meeting will be held electronically and in-person due to Covid-19 concerns.**

**To access the meeting call: 1-(312)-626-6799, when prompted enter meeting**

**ID code: 820 7567 2007**

**You can also access the meeting online at:**

**<https://us02web.zoom.us/j/82075672007>**

1. Open Meeting
2. Approve Agenda
3. Approve Minutes

Documents:

[03-31-21 - DRAINAGE MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[PAYABLES-DRAINAGE PUBLICATION 04\\_30\\_21.PDF](#)

5. DD 120 - WO 298 - Discuss W Possible Action - Engineer's Report On Improvements To Main Tiles

Documents:

[DD 120 WO 298 - 6927.1 - ENGINEERS REPORT 04\\_28\\_20.PDF](#)

6. DD 9 WO 229 - Discuss W Possible Action - Completion Reports On Upper Main Tile Diversion

Documents:

[DD 9 WO 229 - 6735.1 COMPLETION REPORT - UPPER MAIN TILE DIVERSION 04\\_28\\_21.PDF](#)

[DD 9 - 6735.1 OBSERVATION REPORT 04\\_28\\_21.PDF](#)

7. DD 128 - WO 279 - Discuss W Possible Action - Contractor Update
8. DD 128 - WO 2020-4 - Discuss W Possible Action - Utility Crossing Summary Update
9. Discuss W Possible Action - 2021 Drainage Assessments

Documents:

[2021 DRAINAGE ASSESSMENTS FOR BOARD APPROVAL 04\\_28\\_20.PDF](#)

10. Other Business

11. Adjourn Meeting

**REGULAR DRAINAGE MEETING**  
**Wednesday, March 31, 2021 9:30 AM**

**This meeting was held electronically and in-person due to Covid-19 concerns.**

3/31/2021 - Minutes

1. Open Meeting

Hardin County Drainage Trustee Renee McClellan opened the meeting. Also present were Trustee Lance Granzow; Heather Thomas and Lee Gallentine of Clapsaddle-Garber Associates; Jessica Sheridan, Environmental Health; and Denise Smith, Drainage Clerk.

2. Approve Agenda

Motion by Granzow to approve the agenda. Second by McClellan. All ayes. Motion carried.

3. Approve Minutes

Motion by Granzow to approve the minutes of the Drainage Meeting dated 03-24-2021. Second by McClellan. All ayes. Motion carried.

4. DD 26 Lat 4 WO 306 - Discuss W Possible Action - Engineer's Letter

Heather Thomas of CGA discussed the Engineer's Letter. Thomas stated attached to the packet is a copy of the Engineer's Letter, we put it together so that it can be assigned to the lottery system, it is Thomas's understanding that stated there is one contractor doing tile repair right now in Hardin County, and that would be Adam Seward, and it is her understanding that there is one other work order that would be in advance of this one for DD Big 4, so Thomas is looking for approval today to go ahead and enter this into the lottery system and some direction if the Trustees would like CGA out there during construction or if the Trustees would just like CGA to go ahead and submit the points on the manhole and go ahead and let Seward submit his time and expenses to the Trustees. Granzow stated as far as having CGA out there on this district, Granzow thinks we would be crazy not to have someone observing, Thomas stated ok, that is not a problem. Granzow asked if this is something that CGA needs to be there the entire time from start to finish or is this something that you need to be there to see that he did marker points and verify that everything was correct. Thomas stated we can coordinate with Seward, get a feel for it and ask him not to bury it until we come out and look at it and visit with him, we can go over it with him in the beginning to make sure everyone is on the same page. Granzow stated he liked that better, he has a hard time with someone just standing there watching the contractor dig dirt. Thomas stated that was not a problem.

Motion by Granzow to approve the Engineer's Letter to allow for an overflow connection between the original Lateral 4 and the supplemental Lateral 4 at Structure #2, with CGA providing direction to the contractor and have CGA verify installation while the work is open and exposed. Seconds by McClellan. All ayes. Motion carried.

5. Discuss W Possible Action - Drainage Utility Permit Process

Smith stated last week in our discussion the Trustees had mentioned giving the Clerk the authority to give tentative approval on Drainage Utility Permit Applications in which the utility's work does not cross a Drainage District tile/facility in order to move those along in the process, then you would have approval by the Trustees the following week, and that was the reason Smith added this item to today's agenda.

Motion by Granzow to approve authorizing the Drainage Clerk to grant tentative approval on Drainage Utility Permit Applications in which the utility's scope of work does not cross a Drainage District tile/facility, and provide notice to the Trustees for formal approval at the following Drainage Meeting. Second by McClellan. All ayes. Motion carried.

Smith stated she will make sure to communicate any Drainage Utility Permit Applications in which this is applicable with an email to the Trustees so they are aware it will be on the following week's agenda. Granzow stated if you are ever in question, please call the Drainage Engineer with questions. Smith stated she would.

6. Discuss W Possible Action - IRUA Drainage Utility Permit Application

Smith stated this is an application that the IRUA has submitted that we gave tentative approval to last week, this is the one for Handsaker with Hands On Excavation. McClellan asked this does not cross any district tile lines/facilities, Smith stated it does not, that is correct.

Motion by Granzow to approve Drainage Utility Permit Application #2021-01 in DD 55-Div 2. Second by McClellan. All ayes. Motion carried.

7. Other Business

Smith stated she has spoken with the Hamilton County Drainage Clerk, and they are going to approve their assessments a little bit earlier than us, so next week if possible, Smith would like to get the joint Drainage District Assessments ready for the Trustee's approval for Franklin, Hamilton and Wright Counties, we will be assessing DD Big 4 Main and DD Big 4 Lat 4 this year, the Hamilton County clerk has some joint DD's they will be assessing and she will get Hamilton County signatures on her end and get those to us as soon as possible. Smith stated she thinks their Clerk has some leave time to take, and they are trying to work around that. Smith will give the Trustees a heads up when they come in.

8. Adjourn Meeting

Motion by McClellan to adjourn. Second by Granzow. All ayes. Motion carried.



# Hardin County

Drainage Claims with Pay Date of 4/30/2021

DD 14 WO 290 - Legal Services -Review/Attend Mtg

Dentons Davis Brown PC

810.00

<b>Total Regular Payables:</b>	0.00
<b>Total Stamped Warrants:</b>	810.00



**Engineer's Report on Improvements  
to the Main Tiles, Drainage District No. 120  
Hardin County, Iowa**

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# **Engineer's Report on Improvements to Main Tiles, Drainage District No. 120 Hardin County, Iowa**

## 1.0 INTRODUCTION

- SCOPE OF WORK – The Hardin County Board of Supervisors, acting as District Trustees, requested Clapsaddle-Garber Associates to investigate and report concerning repairs or improvements to the Main tiles of Drainage District No. 120 (Ext. No. 5). This report will detail the feasibility of said repairs or improvements, and present opinions of probable construction costs associated with said repairs or improvements. At the Landowner's Meeting held on June 24, 2020, the investigation summary for Work Order #298 was discussed and reviewed by the District Trustees. For reference, a copy of the meeting minutes is included in Appendix Q and a copy of the Investigation Summary for Work Order #298 is included in Appendix R. As a result of this meeting, the District Trustees requested Clapsaddle-Garber Associates to move ahead with an investigation and report concerning repairs or improvements to the Main tiles.
  
- LOCATION – The area of investigation was limited to the lower end of the original 1908 Main tile (Sta. 0+00 to Sta. 68+00) and the entirety of the 1922 Parallel Main tile (Sta. 12+73 to Sta. 76+00). The Stations listed for each of the Mains correspond with a relatively similar path and length, the exception of which being the lower end of the original main being shorter, and the upper end of the 1922 Main being straighter. Said Main tiles are located in Sections 4, 9 and 16, Township 89 North (T89N), Range 20 West (R20W), Hardin County, Iowa. Specifically, the downstream limit of investigation for both Main tiles is at their outlets at an open channel just south of the section line between Sections 9 and 16 at approximately ½ mile west of County Highway S45. Going upstream, the tiles then proceed north and enter Section 9 at approximately ½ mile west of County Highway S45. The tiles then proceed north, crossing 115<sup>th</sup> Street in the middle of Section 9 at approximately ¾ mile west of County Highway S45. Both tiles then proceed north, where the original Main arcs approximately 700 feet West and then back east, while the 1922 Main continues in a northerly direction. Both Main tiles meet again and travel northerly, with the upstream limits of investigation being at the ¼ section line at approximately 2/3 mile West of County Highway S45. For reference, a map showing the limits of investigation is included in Appendix S.

2.0 DISTRICT HISTORY – The following is a brief summary of the pertinent history of Drainage District No. 120 (Ext. No. 5) as obtained from the Hardin County Engineer’s Field Books and the Hardin County Auditor’s drainage minutes and records.

- 1908                    Engineer’s records and maps contain notes for design and construction of the original district facilities, including the Main tile.
- 1922, Sep.            Engineer’s Report submitted for the construction of the parallel Main tile.
- 1922, Dec.            Pay estimates and Engineer’s letter show delivery of tile and beginning of construction of the parallel Main tile.
- 1924, Aug.            Final pay estimate shows the construction of the parallel Main tile being near completion.

3.0 INVESTIGATION – Most field investigation for this report was performed as part of the Investigation Summary for Work Order #298. Said investigation was limited to visual observation (without excavation) gathered during said investigation. For reference, a copy of the Investigation Summary is included in Appendix R. In addition, an observation of the tile outlet area was conducted to determine the condition of such. Said observation was limited to visual observation (without excavation) and picture recording. Those pictures are also included in Appendix R after the Investigation Summary. It should be noted that outlet is assumed to be to the downstream of the railroad crossing. This is due to the field observation finding an outlet at that location with a tile closely resembling the size and material of the recorded 1922 main tile, its orientation being downstream of the original main tile outlet, and the creek that is flowing through the remainder of the district facility path.

A limited review of district history was conducted to determine the dates, locations, and sizes of the two Main tiles as they were installed. A more detailed review of the district history was not completed as it was not within the limited scope of this report.

All other investigations were limited to office and records research as mentioned. Calculations were performed to determine the drainage coefficients and capacities for the length of the existing Main tiles. The drainage capacities of the tiles were calculated using historical maps of the tiles and not that of field observation or measurements. These drainage capacities may be negatively affected by several factors that were not included in this analysis including, but not limited to, breakages in the tile, improper installation, vegetative root infiltration, settling, sediment infiltration, and deposits.

4.0 DISCUSSION AND CONCLUSIONS – Based on the calculations conducted, it appears that for their combined capacity, the Main tiles were designed to provide a drainage coefficient of 0.1 to 0.36 inches per day, with the highest of these being at the outlet, and the lowest of these being located over the approximately 1100 feet upstream of 115<sup>th</sup> Street. Individually, the original Main tile varies in capacity from 0.06 to 0.12 inches per day, and the 1922 Main tile varies in capacity from 0.03 to 0.24 inches per day.

When conducting the field observation for Work Order #298, it was noted that the drainage performance of private tile located in the immediate upstream area of the upward limits of this investigation was lacking. Washouts and ponding were prevalent, which leads to the conclusion that there is a lack of drainage capacity in the downstream direction. More details from the Work Order #298 are included in Appendix R. During the additional site visit to the outlet, the original Main tile outlet was not found, but this is due to excess snow cover and lack of access to the railroad property, where it is historically located. Also, during said visit the lower approximately 200 feet of the 1922 Main tile was found to have been largely eroded, inundated with tree and brush growth, beavers have created a dam, and multiple tiles were found to be broken. Pictures from this observation are included in Appendix R.

Based on the above, it is obvious that the Main tiles have multiple issues that are contributing to the observed lack of drainage in the upstream reaches of the watershed. The area of poor capacity to the north of 115<sup>th</sup> Street creates a bottleneck for drainage coming from the upstream reaches of the Main tiles from the watershed. In addition, the significant amount of tree and brush growth within the lower 200 feet of the outlet are likely to have roots infiltrating the Main tile(s), further restricting drainage.

In addition to the current drainage issues being observed within the District, it should be noted that the newest of these tiles is nearly 100 years old. While there is no exact number of years that the VCP tile will last (due to the large number of variables affecting longevity), it is likely that the tile is nearing that time where more tile failures will begin to show up in the form of blowouts and sinkholes within the farmed fields.

Regardless of the cause of the lack of drainage performance, if improvements are not performed the Main tiles will continue to have poor drainage performance, and the upstream landowners will continue to experience overland flow and ponding. This will continue to affect productivity of the farmed ground upstream of these issues and may get worse as the tile ages and root plugging/infiltration worsens. When all these issues are combined, it will lead to further reduced drainage and liability exposure by the drainage district.

6.0 IMPROVEMENT METHODS – To improve the drainage capacity for the existing Main tiles, the following options are the most straightforward available:

Full Single Tile Upsizing

- For both of the Main tiles, remove and replace the existing tiles with a single new tile of greater capacity from the 1922 outlet to the upper limits of the investigation area following the route of the 1922 Main tile (Sta. 12+73 to Sta. 76+00). For reference, a chart with the required tile sizes and capacities is included in Appendix V.
- Typically, the replacement Main tile would be in the same location as the existing Main tile in order to locate and reconnect private tile and lateral connections. However, since two Main tiles exist, the private tile connections will need to be found by removing the original Main tile as work progresses in addition to the excavation of the 1922 Main tile. For reference, the general route is shown on the map included in Appendix T.
- The 700-foot arc would be left intact and attached to the new Main tile at the downstream end. The furthest upstream 40-feet of the arc would be abandoned and capped.

Partial Single Tile Upsizing

- For both of the Main tiles, remove and replace the existing tiles with a single new tile of equal or greater capacity following the route of the 1922 Main tile from the 1922 outlet to 115<sup>th</sup> Street (Sta. 12+73 to Sta. 47+00). For reference, a chart with the required tile sizes and capacities is included in Appendix V.
- It should be noted that this method would not fix the issue of the bottleneck north of 115<sup>th</sup> Street. However, it would ensure that said bottleneck area has a more freely flowing outlet downstream and would fix the issues that exist at the Main tile outlets.
- Typically, the replacement Main tile would be in the same location as the existing Main tile in order to locate and reconnect private tile and lateral connections. However, since two Main tile exist, the private tile connections will need to be found by removing the original Main tile as work progresses in addition to the excavation of the 1922 Main tile. For reference, the general route is shown on the map included in Appendix U.

With the above-mentioned improvement methods, the following should be noted:

- Due to the soil types and soil cover, all replacement tile will have rock bedding for additional stability and strength.
- The upsized Main tile may be shifted from its existing location or installed at a flatter grade to gain soil cover (if found to be lacking).
- The only tiles being improved are the tiles identified in Appendices T and U. The remainder of the tile(s) are not being repaired or modified in any manner.
- The proposed pipe sizes shown in Appendix V are those that are currently manufactured that meet or exceed the ½” or 1” drainage coefficient.
- The proposed and existing capacities shown in Appendix V are based on the assumptions that the existing Main tiles are both installed per their respective design and that they are functioning at full capacity (i.e. are not collapsed, broken, plugged, etc).
- The proposed and existing pipe sizes and capacities shown in Appendix V are those to serve the lands within the existing District boundaries and not any discharges from other lands outside the District boundaries.
- The stationing and distances shown in Appendices T, U, and V are based on the original district profiles. There is likely to be slight differences in quantities found as work progresses.

- Improvements have historically been viewed as having an impact on jurisdictional wetlands. As such, individual landowners should consult with applicable staff at the Hardin County NRCS office to determine the existence of said jurisdictional wetlands and what said impact may be on them.

Per Iowa Code Chapter 468.126, the above actions would be considered an improvement. As such, Subsection 4, paragraph c of Chapter 468.126 states "If the estimated cost of the improvement does not exceed fifty thousand dollars, the board may order the work done without conducting a hearing on the matter. Otherwise, the board shall set a date for a hearing on whether to construct the proposed improvement and whether there shall be a reclassification of benefits for the cost of the proposed improvement." The opinion of probable construction cost contained in the next section of this report exceeds said \$50,000 limit. Therefore, a hearing will be required. Per Iowa Code Chapter 468.126.4.e, the right of remonstrance may apply to the proposed improvements.

6.0 **OPINION OF PROBABLE CONSTRUCTION COSTS** – Using the above methods of improvement, an itemized list of project quantities and associated opinions of probable construction cost for each option were compiled and are included in Appendices W, X, Y, and Z of this report. A summary of said costs are as follows:

<b>METHOD</b>	<b>DRAINAGE COEFF.</b>	<b>DISTRICT CONSTRUCTION COST</b>	<b>ROAD COUNSTRUCTION COST</b>
Full Single Tile Upsizing – Improvement (½")	½"	\$1,101,309.00	\$26,490.00
Full Single Tile Upsizing – Improvement (1")	1"	\$1,356,471.00	\$30,452.50
Partial Tile Upsizing – Improvement (½")	½"	\$701,523.00	\$28,697.50
Partial Tile Upsizing – Improvement (1")	1"	\$840,903.00	\$30,452.50

It should be noted that said costs include materials, labor, and equipment supplied by the contractor to complete the necessary improvement and include applicable engineering, construction observation, and project administration fees by Clapsaddle-Garber Associates. However, said costs do not include any interest, legal fees, county administrative fees, crop damages, other damages, previous repairs, engineering fees to date, wetland mitigation fees, or reclassification fees (if applicable). As always, all costs shown are opinions of Clapsaddle-Garber Associates based on previous lettings on other projects. Said costs are just a guideline and are not a guarantee of actual costs.

7.0 OWNERSHIP AND CLASSIFICATIONS – Any and all information concerning ownership of lands and classifications of said lands within Drainage District No. 120 can be obtained from the Hardin County Auditor’s office.

It should also be noted that Iowa Code Chapter 468.131 states “When an assessment for improvements . . . exceeds twenty-five percent of the original assessment and the original or subsequent assessment . . . did not designate separately the amount each tract should pay for the main ditch and tile lateral drains then the board shall order a reclassification . . .” Based on this, it appears that a reclassification separating laterals may be required if any of the above improvement options were to move forward, and the laterals had not already been separated. Since the proposed project does not involve the laterals, it is not clear if this portion of code is applicable and it is our recommendation that the District Trustees seek advice from their legal counsel.

8.0 RECOMMENDATIONS – There is a definite need to perform one of the above-mentioned actions if the upstream landowners wish to maintain productivity of their land by reducing erosion and excess stormwater. The improvements would remove the current restrictions and impediments to the Main tiles, increase the capacity of the District facilities, and extend the lifespan of the same. Therefore, it is recommended that the Hardin County Board of Supervisors, acting as District Trustees, should take action to accomplish the following:

- Approve the Engineer’s Report as prepared by Clapsaddle-Garber Associates.
- Hold the required hearing on the proposed improvements.
- Adopt one of the recommendations of the Engineer’s Report.
- Direct plans and specifications for the proposed repairs or improvements be prepared by Clapsaddle-Garber Associates.
- Proceed with receiving bids from interested contractors by Clapsaddle-Garber Associates.
- Award contract to the lowest responsible contractor.
- If desired or required by Iowa Code, proceed with reclassification proceedings.

## DD 120 LANDOWNERS MEETING MINUTES

Wednesday, June 24, 2020 11:00 AM

**This meeting was held in-person and electronically due to Covid-19 concerns.**

6/24/2020 - Minutes

1. Open Meeting

Hardin County Drainage Chairperson Lance Granzow opened the meeting. Also present were Trustee BJ Hoffman; Trustee Renee McClellan; Landowners Kent Picht, Jordan Picht, Kevin Vierkandt; Lee Gallentine of Clapsaddle-Garber Associates; Michael Pearce, Network Specialist and Denise Smith, Drainage Clerk.

2. Approve Agenda

Motion by McClellan to approve the agenda. Second by Hoffman. All ayes. Motion carried.

3. DD 120 - Discuss W Possible Action - Surcharged Intake Discharge

The issue of the private tile intake being surcharged during heavy rains and discharging onto neighboring property creating ponding issues was discussed. Gallentine stated in what he understands is Picht did private tiling and installed an intake, which he has the right to do, and as Kevin Vierkandt reported in last week's meeting, when we have heavy rains, water comes out of the intake, and follows the slope of the ground and ends up in Vierkandt's ground. Picht agreed that is what happens, Kent Picht stated his 150 acres above Vierkandt flows into that area and Picht has a pond there every year, in speaking with the contractor the contractor stated an intake could be installed that would take care of that. Picht stated he put the intake in the fenceline so he did not have to farm around them, and would gladly move it back to the middle of the pond, but the fenceline is part of that ponding area. Gallentine asked if the pond in Vierkandt's ground was big enough that it goes up into Picht's ground as well. Picht stated we both share the same pond, and Vierkandt's is a little bit higher, when Picht's ponds up a little bit, it is so high it goes into Vierkandt's place because there is a huge amount of surface water that goes in there. Picht stated if he took the intake out now, the tile would probably blow out because the tile is only 2' to 2-1/2' deep, it is a 7" tile in Picht's field, and when it goes into Vierkandt's field it goes into a 10" tile. Picht stated he had a map when the intake was installed and thought the 7" tile going into a 10" tile should handle that flow ok, either it may not be a 10" in Vierkandt's field or Picht has so much pressure coming down that it discharges out the intake.

Granzow stated that last week Vierkandt expressed we may need to increase the district tile size. Gallentine did calculations using the original design, and using the original design, the coefficient in that district varies from .23" per day to .03" per day, so the system is woefully undersized compared to what would be installed now. Granzow stated since Vierkandt is tenant on Jeff Hansen's land, the request for an improvement would have to come from a landowner. McClellan asked if a backflow preventer would be applicable in this case. Gallentine stated a backflow preventer has to have a certain amount of pressure to open it for the one way flow, so you would have to have some pressure to open it but the issue is if you have too much pressure in that system you will have blowouts. Gallentine stated Vierkandt acknowledged that but Vierkandt stated that is a sign we need a bigger tile. Gallentine stated if we put all that water through the tile, some of it goes by surface and leaves the district, it is still a coefficient of only 1/4" to .03" which is pretty slow. Picht stated he has two intakes west of his places in the ditch of HWY 57 that still has water coming out of them and creating ponds, and has two intakes east of his house, that are still discharging after several days of no rain, and is still receiving water from an intake blowing out on his neighbors, creating another pond for him. Picht has learned to live with it, if he takes an intake out, water seeps up out of the ground, if we put the intake in, at least it does drain and the ponds go out quicker, he does not like the ponding or the intakes, but if he does not put an intake in the ponds will sit there longer, there is no good solution other than huge drainage mains everywhere. Gallentine stated sometime they will put an intake in and shoot it off to the side of the main before coming up and that helps somewhat rather than being right up on top of the main but it will still discharge sometimes.

Gallentine stated if you do an upsized project, unless it is an open ditch, you will probably get 1/2" per day

max of coefficient, and with the heavy rains we have been having if you get 2" of rain, it will take 4 days to drain out. Vierkandt was called into the meeting and the original design coefficients were reviewed. Granzow stated if you would like to request an improvement or an upsize in tile, the request needs to come from a landowner. Vierkandt stated it definitely needs to be upsized. Granzow asked if Picht was willing to make that request. Picht stated he and Vierkandt had already discussed what Picht was willing to do, Picht stated he would upsize part of it to take the pressure of the upper end, possibly run a supplemental main beside of the old main that jumps up to a bigger tile, it is supposed to jump up to an 18" tile later. Gallentine stated you would jump up to a .2" coefficient with an 18" tile. Picht wouldn't mind sharing the cost on that just to take off the pressure on the top. Gallentine asked if Picht would go all the way down to the outlet. Picht stated it depends on what size the outlet is, and noted it is a long ways away. Gallentine stated yes it is a long way, and the the last little bit of tile before the outlet is a 20" which is running a .25" coefficient. Picht would be willing to help run supplemental private tile to the larger part of the main if that would help. Granzow stated that can be done without the Trustees. Picht agreed and stated that was what he had told Vierkandt, as the main is on Vierkandt's land. Granzow stated what would come from the Trustees is if a landowner would come forward with a request to do an improvement. Vierkandt stated if the outlet down on the bottom was only good for 1/4" a day and is way less on the upper end, he was unsure what the cost for an improvement would be, but he would like to know the cost for an improvement or to lay another main beside it to increase the capacity. Vierkandt asked if we can bring that excess water all the way down there, and the outlet is only good for 1/4" a day, Vierkandt does not think that will help us that much.

Picht stated he knew the land that would have to go through, and it gets really deep, and would also have to go under an active railroad track, and it would be a major project. Gallentine stated the original tile was planned at the railroad tracks for a depth of 7', Picht said there are places that are deeper than that. Gallentine stated with a tract excavator, 7' is not that bad. Gallentine did note it was a Canadian National line, and it is a 20" tile right before it goes under the railroad. Gallentine stated right at the railroad tracks is where it starts steeping up a bit to get to that 1/4" coefficient, upstream of the railroad tracks it flattens out and that is about .2" coefficient. Picht asked what it would cost for study on an improvement. Gallentine stated studies have been running \$5,000 to \$7,000. Picht asked if it would just be billed to these two landowners. Gallentine stated it would be billed to and split amongst all the landowners in the district. Picht asked if that was ok with Vierkandt. Vierkandt stated his landowner would be ok with that. Picht was ok with that as well.

Granzow stated we have to have a request from a landowner, and with this kind of drainage coefficient, thats not bad to just have a single landowner request. Gallentine stated he was surprised there has not been a request before when he saw the .03" coefficient, and it was no wonder they have ponding. Picht stated he would like to get rid of the ponding as they plant it and always get something out of it but would like the ponding gone and something done for the top end too, which would send more water down there. McClellan asked if Picht would submit a request in writing to the Drainage Clerk, Picht stated he would provide a written request to Smith today. McClellan stated we could act on the written request next week. Picht asked how long a study would take. Gallentine stated they usually take about a month, and once adopted the Engineer's Report is valid for 10 years, and it would cover multiple options, one option would be putting in one lager tile, one could be putting a new tile beside the old tile, the problem with that is you are still paying on the new tile while trying to maintain the old tile. Gallentine stated we would also include an open ditch option. Granzow stated the parallel tile option means the tile is flowing in both old and new tiles, but as soon as the 100 year old tile breaks, will we be putting in a new one, or build it once the first time the improvement is done. Gallentine stated it is tough to figure out how much life is left in a 100 year old system. Granzow stated it would be nice to say we abandoned the old system and built a new one, Gallentine stated we typically do remove the old tile. Granzow stated we need to understand that if abandoned it will no longer be district tile if it breaks. Gallentine stated the nice thing about removing the old district tile is that we can find and restore all the private connections when we remove the tile. Gallentine stated the report will provide several options with expected costs for each so you can have an idea of what costs may be. Picht asked if it was very expensive to remove the old tile. Gallentine stated we usually see costs of \$3 to \$5 per foot, it is pulled off and trucked out, sometimes it is used as fill in a road crossing.

Granzow stated so what we have so far is a request from landowner Picht for a report to do an improvement, along with that we are going to make sure the landowners have a wetland determination done by the NRCS. Granzow went on that the landowners are the only ones that can request a wetland determination, the

Trustees can not do this. Picht asked if the landowners would all be notified and come in and vote on the improvement. Granzow stated the Trustees are the only ones that vote, the Trustees will take a paper ballot as input from the landowners and try to come to a consensus, but the Trustees have the final say. Picht stated all the other landowners may not show interest as they have higher ground and drain fine. Gallentine stated once the report is done, it will be on file with the Drainage Clerk who will send out notifications of a hearing to discuss the improvement options in the report. Granzow stated the classifications may show what Picht describes as well. Gallentine stated that if the majority of the landowners who own 70% of the ground in the district file a Remonstrance, saying no, then nothing moves forward. Granzow stated then the Trustees are done and it becomes a dead issue. Hoffman stated if Picht would step up to the Drainage Clerk's office, he could submit a request in writing, Hoffman noted that the district could also submit a petition for Private Trustee control.

Hoffman stated it is hard for the Trustees to say that we have to tell you here is the report and classification and we are spending your money, and knowing the current commodity prices and the world's uncertainty, telling someone that they will have to spend this much money is difficult. Picht stated he will try and talk Vierkandt into putting in just a short supplemental tile to a bigger tile so that may help the blowout. Picht stated the blowout does not amount to that much when you look at the amount of surface water that Picht's land takes. Picht stated the blowout quits after you get to a certain level, when Picht has watched the blowout it goes out into Vierkandt's field about 100 yard, the water disappears and is soaking in somewhere. Picht stated he will try to work something out with Vierkandt. Granzow asked if he would like to do that before we request the report. Picht stated no he would request the report today, as they will not get it fixed before next year now that crops are in.

4. Other Business

5. Adjourn Meeting

Motion by Hoffman to adjourn. Second by McClellan. All ayes. Motion carried.

## Drainage District:

#120

## Investigation/Repair Summary:

- Tenant in the S½ SW¼ Section 4, Township 89 North Range 20 West and NW¼ Section 9, Township 89 North Range 20 West reported that an upstream landowner in N½ SW¼ Section 4, Township 89 North Range 20 West had installed an intake on district tile to act as a pressure relief point for the tile system and graded the area to “drain” to his field. As a result, water was flowing overland and collecting on the north side of 115<sup>th</sup> Street (no intake visible in the road ditches on either side of the 115<sup>th</sup> Street). At 115<sup>th</sup> Street and throughout the flow path, crops were either drown out or washed away.
- Visual observations (with and without tenant) found:
  - Drown out/washed out areas as tenant described (115<sup>th</sup> Street and flow paths).
  - Wet drown out area in neighbor’s field on the north side of tenant’s fenceline.
  - Woven portion of said fenceline appears to have cut.
  - Sod “fenceline hump” is no longer in place allowing the free flow of surface water.
  - Yellow wire topped intake is just north of fenceline on neighbor’s property and not in the low point of the neighbor’s wet area.
- A review of the original district maps (Drainage District 5) indicates that the tile at said fenceline is not district tile as the Main tile (highlighted yellow on the attached maps) runs northwest as it moves upstream through the S½ SW¼ Section 4, Township 89 North Range 20 West and never enters the N½ SW¼ Section 4, Township 89 North Range 20 West.
- A review of the reconstruction district map (Drainage District 120) shows multiple “lines” on the drawing, but the only one identified as the district tile is the Main tile (highlighted pink on the attached map) and it does not enter the N½ SW¼ Section 4, Township 89 North Range 20 West.

## Contractor Time and Materials (spent while CGA was on-site):

None recorded as only visual observation was performed.

## Additional Actions Recommended:

The immediate problem at the fenceline between the S½ SW¼ Section 4, Township 89 North Range 20 West and the N½ SW¼ Section 4, Township 89 North Range 20 West appears to be on a private tile and not a district facility based on the above review. If desired, a detailed record search could be performed to verify that the maps accurately represent the district facilities. If the tile is private, then the primary solution that the district could offer for the immediate area would be to construct a lateral from the Main tile to the N½ SW¼ Section 4, Township 89 North Range 20 West.

A secondary issue is the ponding at 115<sup>th</sup> Street. Preliminary calculations indicate that the existing Main tile lacks drainage capacity at this point and there are no means for standing water to enter the Main tile. These both could be remedied by a drainage district project, but this would not prevent the crop loss along the flow paths from 115<sup>th</sup> Street to the N½ SW¼ Section 4, Township 89 North Range 20 West. Alternatively, secondary roads could be contacted to upsize the roadway culvert at 115<sup>th</sup> Street, but this would just push the problem to the south.





# Drainage Work Order Request For Repair

## Hardin County

**Date:** 7/6/2020

**Work Order #:** WO00000298

**Drainage District:** DDs\DD 120 (51135)

**Sec-Twp-Rge:** 09-89-20      **Qtr Sec:** NE NW

**Location/GIS:** 89-20-09-100-002

**Requested By:** Kevin Vierkandt

**Contact Phone:** (515) 689-3388

**Contact Email:** vierkandtfarms@windstream.net

**Landowner (if different):** Hansen Farms, Inc.

**Description:**

DD 120 - Kevin Vierkandt reports issues with neighboring parcel's intake discharging onto his parcel (892009100002) when intake is surcharged. Intake is in fenceline about 8" above ground.

**Repair labor, materials and equipment** \_\_\_\_\_

**Repaired By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Please reference work order # and send statement for services to:** Hardin County Auditor's Office  
Attn: Drainage Clerk  
1215 Edgington Ave, Suite 1  
Eldora, IA 50627  
Phone (641) 939-8111  
Fax (641) 939-8245

For Office Use Only

**Approved:** \_\_\_\_\_ **Date:** \_\_\_\_\_

7-8-2020

E end drawn spot @ 115+4



W end drawn spot @ 115+4

7-8-2020



Middle drain spot @ 115ft

7-15-2020  
Wet spot in adjoiners field



7-15-2020  
Yellow topped intake just  
north of fence line



7-15-2020 W side of missing  
soil "hump"

7-15-2020 middle of missing soil "hump"

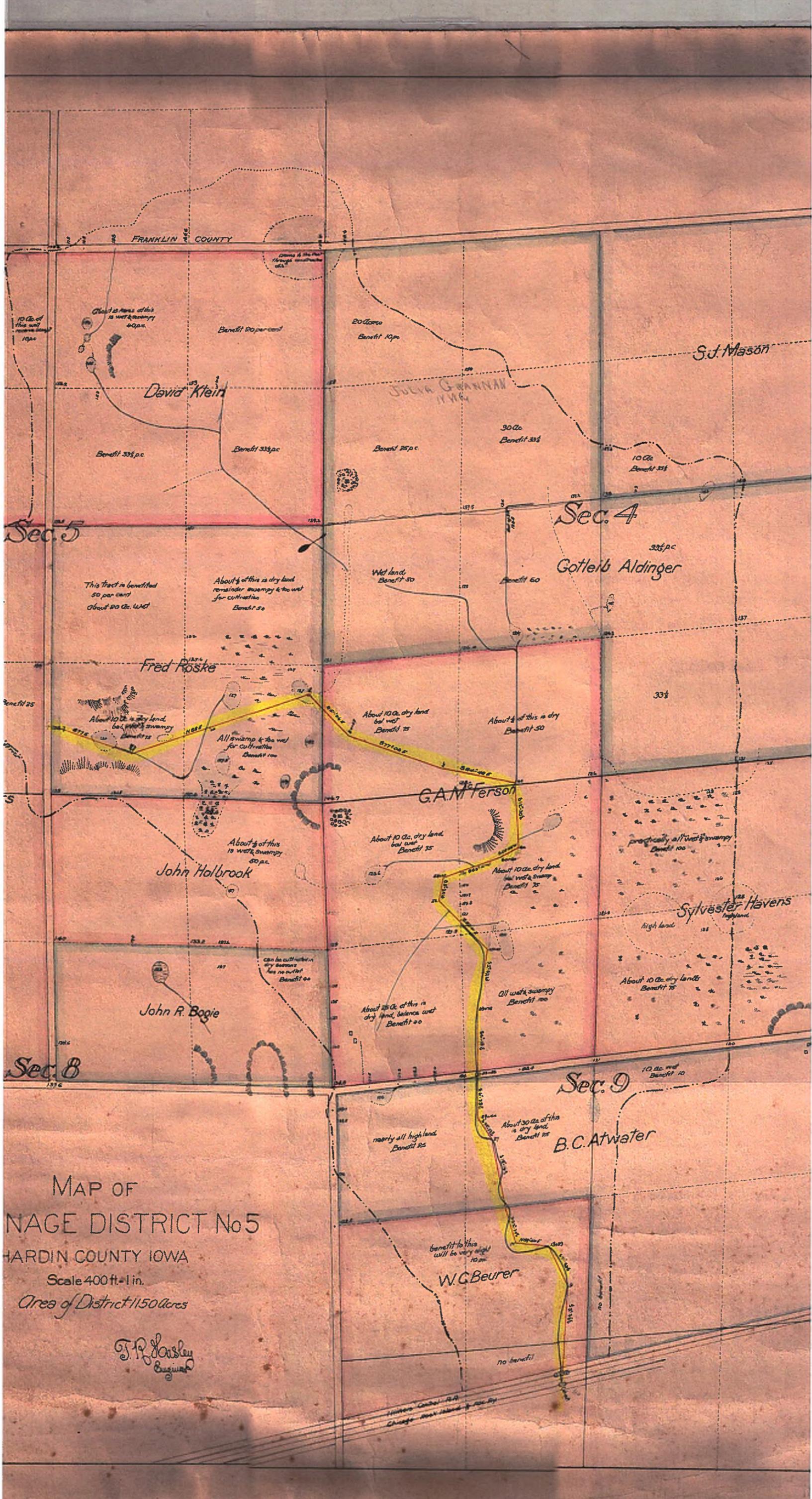


7-15-2020 East side of missing soil "hump"

7-15-2020



"Cat" woven wire fence



MAP OF  
 NAGE DISTRICT No 5  
 HARDIN COUNTY IOWA  
 Scale 400 ft. = 1 in.  
 Area of District 1150 acres

J. P. Hasley  
 Engineer

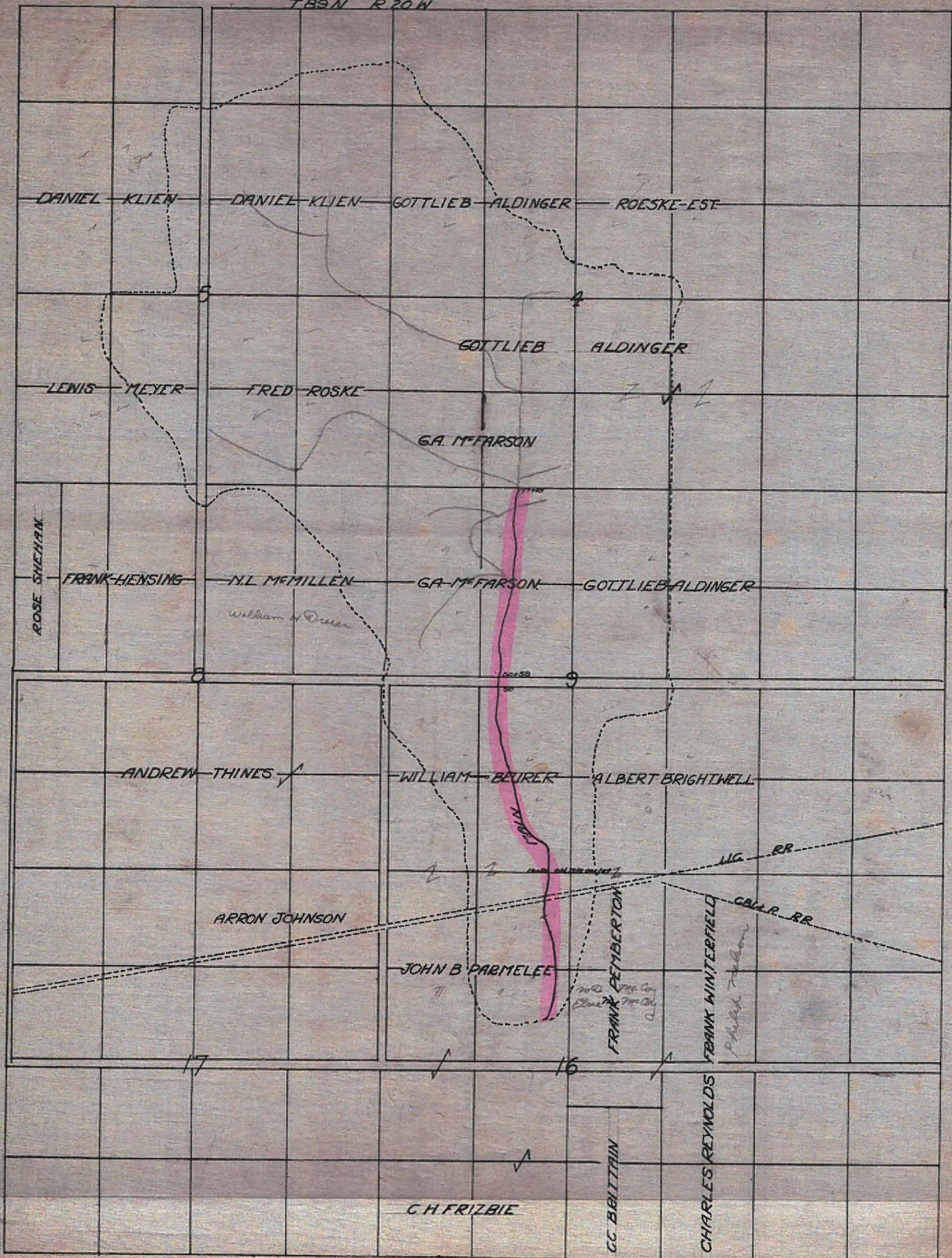
Huron Central R.R.  
 Chicago - West Island - via - St. Louis





**PLAT**  
**DRAINAGE DISTRICT**  
**NO 5**  
**RECONSTRUCTION**  
**DD** CONTAINING 1220 ACRES **120**  
 SCALE 1" = 800'

T89N R20W





*Figure 1: 1922 Main completely exposed and broken above outlet.*



*Figure 2: Lower 100 feet of 1922 Main.*



Figure 3: Lower 100 feet of 1922 Main tile



*Figure 4: Large trees and woody brush growing over the lower 200 feet of both Main tiles.*



*Figure 5: Trees and woody brush over lower 100 feet of 1922 Main tile.*



*Figure 6: Lower 200 feet of Main travels below bridge and then through heavily wooded area.*



*Figure 7: Beaver dam below the Main tile outlet.*



Figure 8: Signs of beaver action.



*Figure 9: Signs of beaver action.*



*Figure 10: Signs of beaver action.*



*Figure 11: Pooling between beaver dam and 1922 Main tile outlet.*

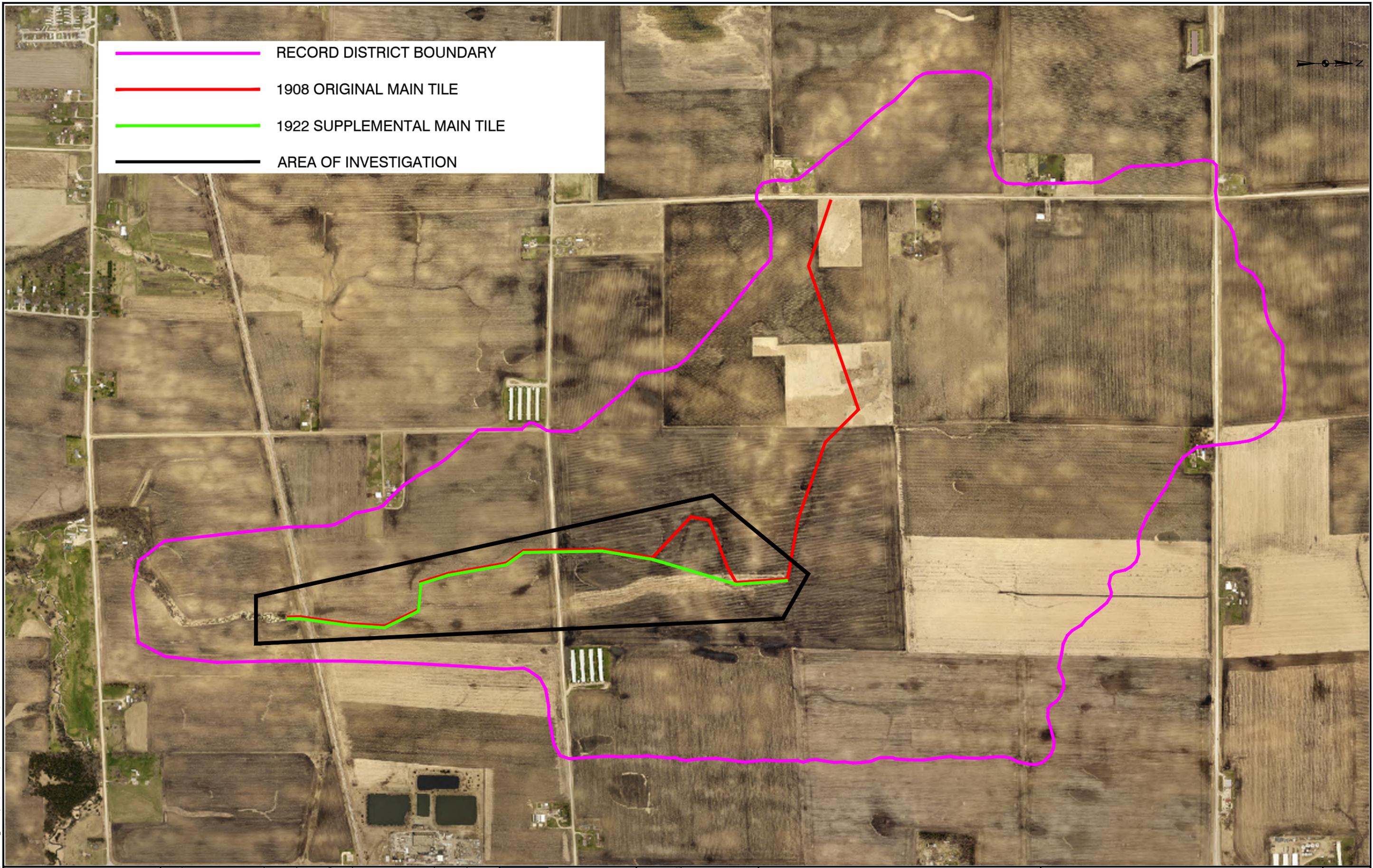


*Figure 12: Pooling between beaver dam and 1922 Main tile outlet.*



Figure 13: 1922 Main tile outlet.

 RECORD DISTRICT BOUNDARY  
 1908 ORIGINAL MAIN TILE  
 1922 SUPPLEMENTAL MAIN TILE  
 AREA OF INVESTIGATION



J:\6927 - D.D. #120\Drawings\6927\_1 - Drainage Map - D0120.dwg - APP S - 04-21-21 - 1:50pm - JWS333



NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE

 Clapsaddle-Garber Associates, Inc.  
 Toll Free (800) 543-7981  
 www.cgaconsultants.com

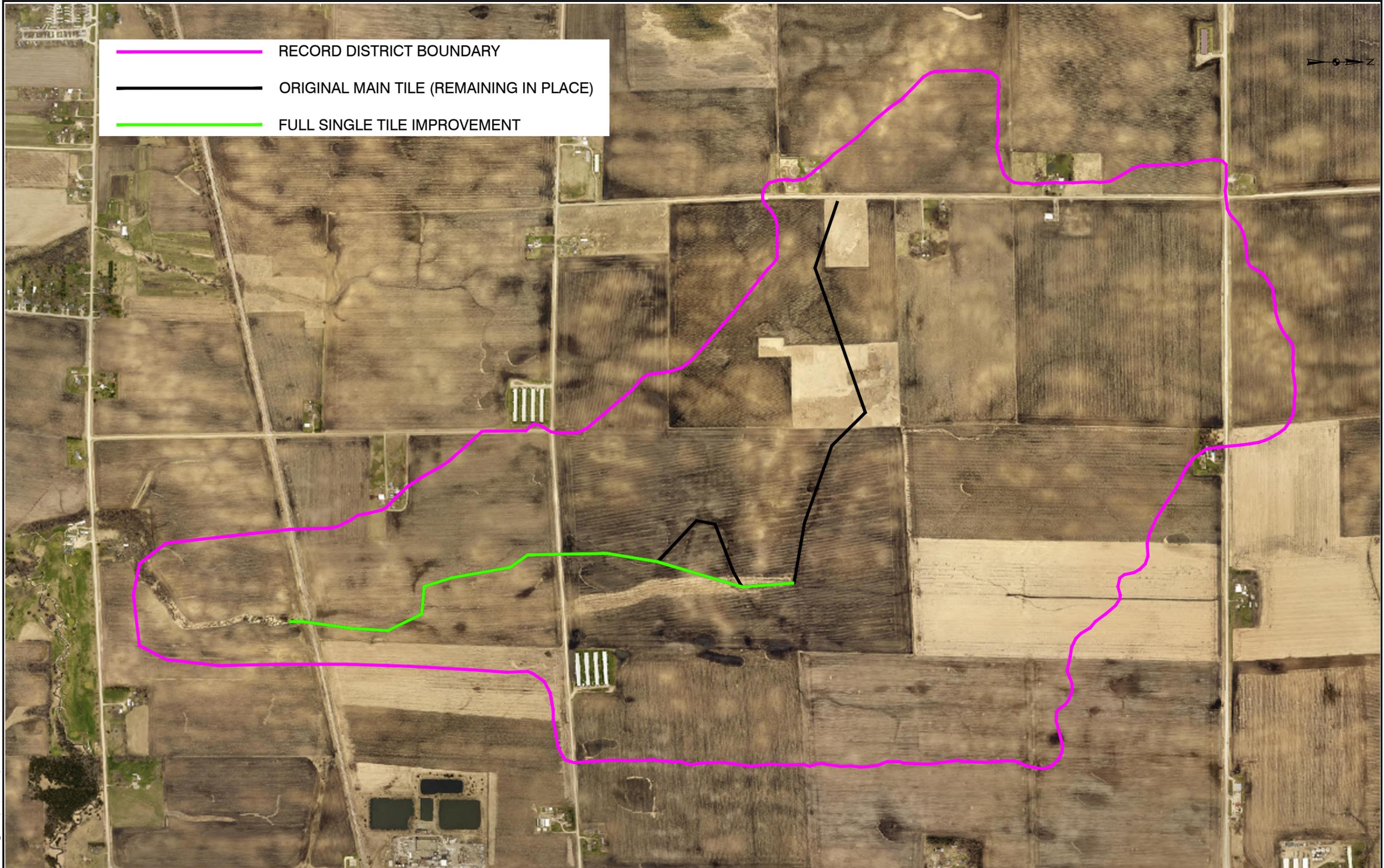
DESIGNED: JVS	DATE: 3/10/2021
DRAWN: JVS	DATE: 3/10/2021
CHECKED: LOG	DATE: 3/18/2021
APPROVED: LOG	DATE: 3/18/2021

**D.D. #120 IMPROVEMENT**  
 HARDIN COUNTY, IOWA

**INVESTIGATION LIMITS**

PROJECT NO.	6927.1
SHEET NO.	APP. S

 RECORD DISTRICT BOUNDARY  
 ORIGINAL MAIN TILE (REMAINING IN PLACE)  
 FULL SINGLE TILE IMPROVEMENT



J:\6927 - D.D. #120\Drawings\6927\_1 - Drainage Map - D0120.dwg - APP 1 - 04-21-21 - 1:57pm - JWS333



NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE

 Clapsaddle-Garber Associates, Inc.  
 Toll Free (800) 543-7981  
 www.cgaconsultants.com

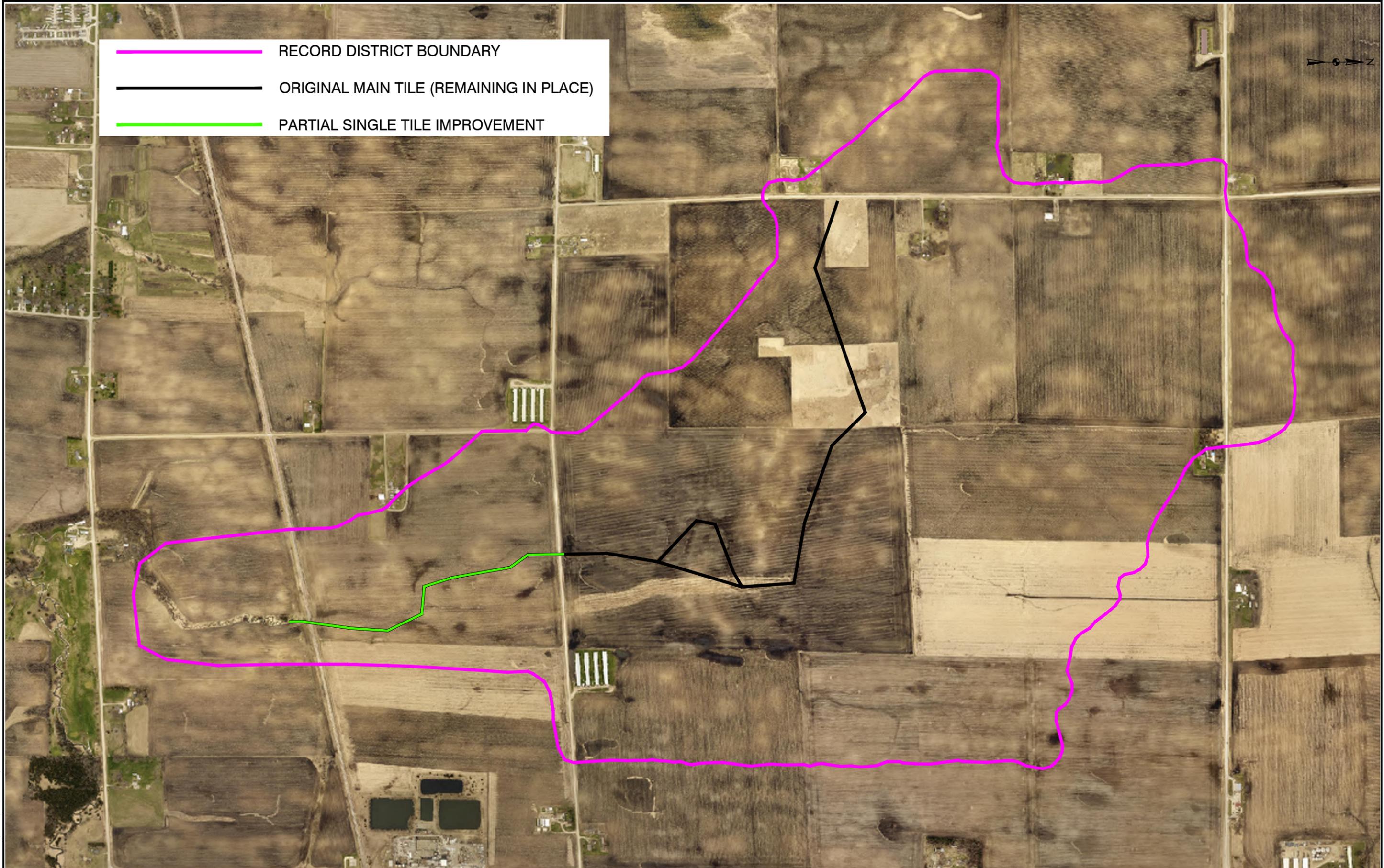
DESIGNED: JVS	DATE: 3/10/2021
DRAWN: JVS	DATE: 3/10/2021
CHECKED: LOG	DATE: 3/18/2021
APPROVED: LOG	DATE: 3/18/2021

**D.D. #120 IMPROVEMENT**  
 HARDIN COUNTY, IOWA

**FULL TILE UPSIZING**

PROJECT NO.	6927.1
SHEET NO.	APP. T

 RECORD DISTRICT BOUNDARY  
 ORIGINAL MAIN TILE (REMAINING IN PLACE)  
 PARTIAL SINGLE TILE IMPROVEMENT



J:\6927 - DD\Drawings\Sheets\6927\_1 - Drainage Map - DD120.dwg - APP U - 04-21-21 - 2:02pm - JWS333



NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE

 Clapsaddle-Garber Associates, Inc.  
 Toll Free (800) 543-7981  
 www.cgaconsultants.com

DESIGNED: JVS	DATE: 3/10/2021
DRAWN: JVS	DATE: 3/10/2021
CHECKED: LOG	DATE: 3/18/2021
APPROVED: LOG	DATE: 3/18/2021

**D.D. #120 IMPROVEMENT**  
 HARDIN COUNTY, IOWA

**PARTIAL TILE UPSIZING**

PROJECT NO.	6927.1
SHEET NO.	APP. U



By: J.V.S.  
 Date: 3/9/2021  
 Checked By: L.O.G.  
 Date: 4/21/2021

**Engineer's Opinion of Main tile Capacities**

**Project: Single Tile Upsizing for D.D. #120**

Location: Sections 9 & 16 T89N, R20W Hardin County, Iowa

MAIN TILE UPSIZING (IMPROVEMENT)	EXISTING					IMPROVED						
	STA. (Original, 1922)	EXISTING DESCRIPTION	INSTALLED TILE SIZE; Original, 1922 (in)	INSTALLED TILE CAPACITY (cfs)	INSTALLED TILE CAPACITY (in/day)	PROPOSED DESCRIPTION	1/2" DRAINAGE COEFFICIENT			1" DRAINAGE COEFFICIENT		
							IMPROVED TILE SIZE (in)	IMPROVED TILE CAPACITY (cfs)	IMPROVED TILE CAPACITY (in/day)	IMPROVED TILE SIZE (in)	IMPROVED TILE CAPACITY (cfs)	IMPROVED TILE CAPACITY (in/day)
	-1+50, 12+73	Tile empties into open channel	18, 20	17.44	0.36	Tile empties into open channel	36	56.0	1.1	42	84.4	1.7
	0+00, 14+00	Original Main tile outlet, 1922 grade change: 0.7% to 0.4%, <b>Railroad</b>	18, 20	17.44	0.36	Grade change from 0.7% to 0.3%	36	56.0	1.1	42	84.4	1.7
	20+00, 34+00	Original grade change: 0.3% to 0.06%	18, 20	14.59	0.30	Grade change from 0.3% to 0.18%	36	36.6	0.7	42	55.3	1.1
	22+00, 36+00	1922 size change: 20" to 16"	18, 20	11.40	0.26		36	28.4	0.6	42	42.8	1.0
	23+00, 37+00	1922 Grade change: 0.4% to 0.16%	18, 16	7.45	0.18		36	28.4	0.7	42	42.8	1.0
	33+00, 47+00	1922 size change: 16" to 12", <b>115th Street</b>	18, 12	5.66	0.13		36	28.4	0.7	42	42.8	1.0
	49+00, 59+00	Original grade change: 0.06% to 0.16%	18, 12	4.01	0.10		36	28.4	0.7	42	42.8	1.0
	68+00, 76+00	Original grade change: 0.16% to 0.25%, Original size change: 18" to 16", 1922 end of tile	18, 12	5.64	0.15	End of Improvement	36	28.4	0.8	42	42.8	1.1
	130+00	End of original Main tile	16	3.85	0.14							



By: J.V.S.  
 Date: 3/9/2021  
 Checked By: L.O.G.  
 Date: 4/21/2021

**Engineer's Opinion of Probable Construction Cost**

**Project: Full Single Tile Upsizing for D.D. #120**

Location: Sections 9 & 16 T89N, R20W Hardin County, Iowa

**FULL SINGLE TILE UPSIZING - IMPROVEMENT (1/2")**

ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
<b>DISTRICT CONSTRUCTION COSTS</b>						
101	36" CMP TILE OUTLET	\$ 130.00	LF	40	LF	\$ 5,200.00
102	36" TRIPLE WALL PPE or RCP TILE	\$ 90.00	LF	6140	LF	\$ 552,600.00
103	36" DIP TILE W/ STEEL CASING (RAILROAD)	\$ 1,000.00	LF	100	LF	\$ 100,000.00
104	36" x 16" PPE or RCP REDUCER	\$ 2,000.00	EA	1	EA	\$ 2,000.00
105	36" RODENT GUARD	\$ 1,000.00	EA	1	EA	\$ 1,000.00
106	BANK STABILIZATION	\$ 60.00	TON	50	TON	\$ 3,000.00
107	RAILROAD FLAGGING & INSURANCE	\$ 30,000.00	EA	1	EA	\$ 30,000.00
108	CONCRETE COLLAR	\$ 1,000.00	EA	10	EA	\$ 10,000.00
109	PRIVATE TILE CONNECTIONS	\$ 500.00	EA	22	EA	\$ 11,000.00
110	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	6	EA	\$ 9,000.00
111	TILE LOCATION	\$ 150.00	STA	63	STA	\$ 9,450.00
112	TREE REMOVAL	\$ 2,000.00	LS	1	LS	\$ 2,000.00
113	TILE REMOVAL	\$ 5.00	LF	12560	LF	\$ 62,800.00
<b>DISTRICT CONSTRUCTION SUBTOTAL</b>						\$ 798,050.00
Contingency (15%)						\$ 119,707.50
<b>CONSTRUCTION TOTAL</b>						\$ 917,757.50
Engr. & Const. Observation (20%)						\$ 183,551.50
<b>DISTRICT TOTAL COST</b>						\$ 1,101,309.00
<b>ROAD CROSSING CONSTRUCTION COSTS</b>						
114	36" TILE - OPEN CUT (115TH STREET)	\$ 135.00	LF	45	LF	\$ 6,075.00
115	TILE ABANDONMENT	\$ 100.00	LF	90	LF	\$ 9,000.00
116	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	2	EA	\$ 3,000.00
117	PERMANENT SEEDING AND WARRANTY	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
118	TRAFFIC CONTROL	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
<b>ROAD CONSTRUCTION SUBTOTAL</b>						\$ 22,075.00
Contingency (10%)						\$ 2,207.50
<b>ROAD CONSTRUCTION TOTAL</b>						\$ 24,282.50
Engr. & Const. Observation (20%)						\$ 4,856.50
<b>ROAD TOTAL COST</b>						\$ 26,490.00
<b>TOTAL PROJECT COST</b>						\$ 1,127,799.00

Note: Per Iowa Code, road crossings (highlighted red) are not typically district expense



By: J.V.S.  
 Date: 3/9/2021  
 Checked By: L.O.G.  
 Date: 4/21/2021

**Engineer's Opinion of Probable Construction Cost**

**Project: Full Single Tile Upsizing for D.D. #120**

Location: Sections 9 & 16 T89N, R20W Hardin County, Iowa

**FULL SINGLE TILE UPSIZING - IMPROVEMENT (1")**

ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
<b>DISTRICT CONSTRUCTION COSTS</b>						
201	42" CMP TILE OUTLET	\$ 140.00	LF	40	LF	\$ 5,600.00
202	42" TRIPLE WALL PPE or RCP TILE	\$ 120.00	LF	6140	LF	\$ 736,800.00
203	42" DIP TILE W/ STEEL CASING (RAILROAD)	\$ 1,000.00	LF	100	LF	\$ 100,000.00
204	42" x 16" PPE OR RCP REDUCER	\$ 2,200.00	EA	1	EA	\$ 2,200.00
205	42" RODENT GUARD	\$ 1,100.00	EA	1	EA	\$ 1,100.00
206	BANK STABILIZATION	\$ 60.00	TON	50	TON	\$ 3,000.00
207	RAILROAD FLAGGING & INSURANCE	\$ 30,000.00	EA	1	EA	\$ 30,000.00
208	CONCRETE COLLAR	\$ 1,000.00	EA	10	EA	\$ 10,000.00
209	PRIVATE TILE CONNECTIONS	\$ 500.00	EA	22	EA	\$ 11,000.00
210	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	6	EA	\$ 9,000.00
211	TILE LOCATION	\$ 150.00	STA	63	STA	\$ 9,450.00
212	TREE REMOVAL	\$ 2,000.00	LS	1	LS	\$ 2,000.00
213	TILE REMOVAL	\$ 5.00	LF	12560	LF	\$ 62,800.00
<b>DISTRICT CONSTRUCTION SUBTOTAL</b>						\$ 982,950.00
Contingency (15%)						\$ 147,442.50
<b>CONSTRUCTION TOTAL</b>						\$ 1,130,392.50
Engr. & Const. Observation (20%)						\$ 226,078.50
<b>DISTRICT TOTAL COST</b>						\$ 1,356,471.00
<b>ROAD CROSSING CONSTRUCTION COSTS</b>						
214	42" TILE - OPEN CUT (115TH STREET)	\$ 165.00	LF	45	LF	\$ 7,425.00
215	TILE ABANDONMENT	\$ 100.00	LF	90	LF	\$ 9,000.00
216	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	2	EA	\$ 3,000.00
217	PERMANENT SEEDING AND WARRANTY	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
218	TRAFFIC CONTROL	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
<b>ROAD CONSTRUCTION SUBTOTAL</b>						\$ 23,425.00
Contingency (15%)						\$ 3,513.75
<b>ROAD CONSTRUCTION TOTAL</b>						\$ 26,938.75
Engr. & Const. Observation (20%)						\$ 5,387.75
<b>ROAD TOTAL COST</b>						\$ 30,452.50
<b>TOTAL PROJECT COST</b>						\$ 1,386,923.50

Note: Per Iowa Code, road crossings (highlighted red) are not typically district expense



By: J.V.S.  
 Date: 3/9/2021  
 Checked By: L.O.G.  
 Date: 4/21/2021

**Engineer's Opinion of Probable Construction Cost**  
**Project: Partial Single Tile Upsizing for D.D. #120**  
 Location: Sections 9 & 16 T89N, R20W Hardin County, Iowa

PARTIAL SINGLE TILE UPSIZING - IMPROVEMENT (1/2")

ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
<b>DISTRICT CONSTRUCTION COSTS</b>						
301	36" CMP TILE OUTLET	\$ 130.00	LF	40	LF	\$ 5,200.00
302	36" TRIPLE WALL PPE or RCP TILE	\$ 90.00	LF	3340	LF	\$ 300,600.00
303	36" DIP TILE w/ STEEL CASING (RAILROAD)	\$ 1,000.00	LF	100	LF	\$ 100,000.00
304	36" x 18" PPE OR RCP REDUCER	\$ 2,100.00	EA	1	EA	\$ 2,100.00
305	36" x 12" PPE OR RCP REDUCER	\$ 1,800.00	EA	1	EA	\$ 1,800.00
306	36" RODENT GUARD	\$ 1,000.00	EA	1	EA	\$ 1,000.00
307	BANK STABILIZATION	\$ 60.00	TON	50	TON	\$ 3,000.00
308	RAILROAD FLAGGING & INSURANCE	\$ 30,000.00	EA	1	EA	\$ 30,000.00
309	CONCRETE COLLAR	\$ 1,000.00	EA	6	EA	\$ 6,000.00
310	PRIVATE TILE CONNECTIONS	\$ 500.00	EA	8	EA	\$ 4,000.00
311	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	5	EA	\$ 7,500.00
312	TILE LOCATION	\$ 150.00	STA	69	STA	\$ 10,350.00
313	TREE REMOVAL	\$ 2,000.00	LS	1	LS	\$ 2,000.00
314	TILE REMOVAL	\$ 5.00	LF	6960	LF	\$ 34,800.00
<b>DISTRICT CONSTRUCTION SUBTOTAL</b>						\$ 508,350.00
Contingency (15%)						\$ 76,252.50
<b>CONSTRUCTION TOTAL</b>						\$ 584,602.50
Engr. & Const. Observation (20%)						\$ 116,920.50
<b>DISTRICT TOTAL COST</b>						\$ 701,523.00
<b>ROAD CROSSING CONSTRUCTION COSTS</b>						
315	36" TILE - OPEN CUT (115TH STREET)	\$ 135.00	LF	45	LF	\$ 6,075.00
316	TILE ABANDONMENT	\$ 100.00	LF	90	LF	\$ 9,000.00
317	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	2	EA	\$ 3,000.00
318	PERMANENT SEEDING AND WARRANTY	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
319	TRAFFIC CONTROL	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
<b>ROAD CONSTRUCTION SUBTOTAL</b>						\$ 22,075.00
Contingency (15%)						\$ 3,311.25
<b>ROAD CONSTRUCTION TOTAL</b>						\$ 25,386.25
Engr. & Const. Observation (20%)						\$ 5,077.25
<b>ROAD TOTAL COST</b>						\$ 28,697.50
<b>TOTAL PROJECT COST</b>						\$ 730,220.50

Note: Per Iowa Code, road crossings (highlighted red) are not typically district expense



By: J.V.S.  
 Date: 3/9/2021  
 Checked By: L.O.G.  
 Date: 4/21/2021

**Engineer's Opinion of Probable Construction Cost**

**Project: Partial Single Tile Upsizing for D.D. #120**

Location: Sections 9 & 16 T89N, R20W Hardin County, Iowa

**PARTIAL SINGLE TILE UPSIZING - IMPROVEMENT (1")**

ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
<b>DISTRICT CONSTRUCTION COSTS</b>						
401	42" CMP TILE OUTLET	\$ 140.00	LF	40	LF	\$ 5,600.00
402	42" TRIPLE WALL PPE or RCP TILE	\$ 120.00	LF	3340	LF	\$ 400,800.00
403	42" DIP TILE WITH STEEL CASING (RAILROAD)	\$ 1,000.00	LF	100	LF	\$ 100,000.00
404	42" x 18" PPE OR RCP REDUCER	\$ 2,300.00	EA	1	EA	\$ 2,300.00
405	42" x 12" PPE OR RCP REDUCER	\$ 1,900.00	EA	1	EA	\$ 1,900.00
406	42" RODENT GUARD	\$ 1,100.00	EA	1	EA	\$ 1,100.00
407	BANK STABILIZATION	\$ 60.00	TON	50	TON	\$ 3,000.00
408	RAILROAD FLAGGING & INSURANCE	\$ 30,000.00	EA	1	EA	\$ 30,000.00
409	CONCRETE COLLAR	\$ 1,000.00	EA	6	EA	\$ 6,000.00
410	PRIVATE TILE CONNECTIONS	\$ 500.00	EA	8	EA	\$ 4,000.00
411	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	5	EA	\$ 7,500.00
412	TILE LOCATION	\$ 150.00	STA	69	STA	\$ 10,350.00
413	TREE REMOVAL	\$ 2,000.00	LS	1	LS	\$ 2,000.00
414	TILE REMOVAL	\$ 5.00	LF	6960	LF	\$ 34,800.00
<b>DISTRICT CONSTRUCTION SUBTOTAL</b>						\$ 609,350.00
Contingency (15%)						\$ 91,402.50
<b>CONSTRUCTION TOTAL</b>						\$ 700,752.50
Engr. & Const. Observation (20%)						\$ 140,150.50
<b>DISTRICT TOTAL COST</b>						\$ 840,903.00
<b>ROAD CROSSING CONSTRUCTION COSTS</b>						
415	36" TILE - OPEN CUT (115TH STREET)	\$ 165.00	LF	45	LF	\$ 7,425.00
416	TILE ABANDONMENT	\$ 100.00	LF	90	LF	\$ 9,000.00
417	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	2	EA	\$ 3,000.00
418	PERMANENT SEEDING AND WARRANTY	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
419	TRAFFIC CONTROL	\$ 2,000.00	LOC	1	LOC	\$ 2,000.00
<b>ROAD CONSTRUCTION SUBTOTAL</b>						\$ 23,425.00
Contingency (15%)						\$ 3,513.75
<b>ROAD CONSTRUCTION TOTAL</b>						\$ 26,938.75
Engr. & Const. Observation (20%)						\$ 5,387.75
<b>ROAD TOTAL COST</b>						\$ 30,452.50
<b>TOTAL PROJECT COST</b>						\$ 871,355.50

Note: Per Iowa Code, road crossings (highlighted red) are not typically district expense

**HARDIN COUNTY, IOWA**

**2021**



**COMPLETION REPORT  
ON  
UPPER MAIN TILE  
DIVERSION  
DRAINAGE DISTRICT 9  
HARDIN COUNTY,  
IOWA**



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

*Zeb J. Stanbrough PE*  
ZEB J. STANBROUGH, P.E.

*4-21-2021*  
DATE

LICENSE NUMBER: 19957  
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021  
PAGES OR SHEETS COVERED BY THIS SEAL:  
SHOWN ON TABLE OF CONTENTS



**CLAPSADDLE-GARBER ASSOCIATES OFFICE LOCATIONS**

16 East Main Street, PO Box 754 | Marshalltown, IA 50158  
1523 S. Bell Avenue, Suite 101 | Ames, IA 50010  
5106 Nordic Drive | Cedar Falls, IA 50613  
739 Park Avenue | Ackley, IA 50601  
511 Bank Street | Webster City, IA 50595

**Project Office**  
739 Park Avenue  
Ackley, IA. 50601  
Phone: 641-847-3273  
Fax: 641-847-2303

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## Project Timeline

The Hardin County Board of Supervisors, acting as District Trustees, requested Clapsaddle-Garber Associates to investigate and report concerning repairs or improvements to the Main tile, Drainage District 9. As a result, Clapsaddle-Garber Associates generated an Engineer's Report dated April 30, 2019 summarizing past improvements and repairs, investigating the necessity and feasibility of repairs or improvements to the Main tile, and presenting opinions of construction costs associated with said repair or improvements. The Engineer's report was presented at a meeting with the District Trustees and a hearing concerning said report was conducted on May 22, 2019. As requested, Clapsaddle-Garber Associates generated a Supplement to Engineer's Report date June 3, 2019 on Repairs or Improvements to Main Tile, Drainage District 9. The Supplement to Engineer's report was presented at a meeting with the District Trustees and a hearing concerning said report was conducted on June 19, 2019. As a result, the Trustees authorized Clapsaddle-Garber Associates to proceed with completion of project plans and specifications for the Upper Main Tile Diversion option presented in said report and proceed with a bid letting.

Clapsaddle-Garber Associates completed the authorized plans and specifications and a bid letting date of March 25, 2020 was set. The project was advertised, and bids were received from qualified contractors. The following bids for said diversion (RCP alternate) to this district were received:

	<b>Contractor</b>	<b>Bid Amount</b>
1.	Gehrke Inc. of Osage	\$122,180.00
2.	Nettleton Excavating, Inc. of Joice	\$134,820.00
3.	Hall Backhoe & Tiling of Roland	\$178,274.60
4.	Mort's Water Company of Latimer	\$256,106.90
5.	Farm Tile Pro of Osage	\$---,---.--

The District Trustees identified Gehrke Inc. as the lowest responsible bidder for the joint project and awarded the project to them. The contract was signed on April 15, 2020. Construction activities were started on October 20, 2020. During the construction period, the weather was favorable for construction, and substantial completion was achieved on November 11, 2020 (approximately 7 weeks before the contract completion date).

## Project Deviations

This project followed the authorized plans and specifications well, with the following deviations (for reference see as-built plan sheets included in Appendix V):

1. During construction, the contractor requested to use an agricultural style spoon installation method (where contractor feels soil conditions allow) instead of municipal style rock bedding and backfill installation method that are required by the project plan and specifications. The Board of Trustees agreed with this change. This resulted in a decrease of \$5,000 and no change to the substantial completion date.
2. During construction, the contractor discovered that the junction of the Main tile and Lateral tiles was not west of the existing railroad right of way, but was inside said right of way. Therefore, the Lateral tiles required approximately 90 feet to 110 feet of 8 inch dual wall HDPE tile rerouting to stay outside of said railroad right of way. This resulted in an increase of \$3,500.00 and no change to the substantial completion date.
3. During construction, it was found that the quantities needed for several items (i.e. private tile connections, locating private tile, tile removal, Rip-Rap, hickenbottom intake, exploratory excavation, plug existing tile, etc) were different than those anticipated in the estimated quantities for the project. This resulted in a decrease of \$3,111.60 and no change to the substantial completion date.

## Final Project Costs

The final project costs for construction (for reference see final pay estimate included in Appendix W) and engineering (not including reports or reclassification) are estimated at \$154,568.40, which is approximately \$33,230.00 less than those presented at the hearing. These costs may vary depending upon any damage claims brought forth at the completion hearing. Pending no claims, the costs are as detailed below:

<b>Upper Main Tile Diversion</b>	<b>Project as bid by Contractor</b>	<b>\$122,180.00</b>
	Item #1 (above)	(-) \$5,000.00
	Item #2 (above)	(+) \$3,500.00
	Item #3 (above)	(-) \$3,111.60
	<b>Engineering</b>	(+) \$37,000.00
	<b>TOTAL PROJECT COST</b>	<b>\$154,568.40</b>

The total project cost is below those opinions of cost contained within said Engineer's Report, but so was the project scope. The jet cleaning and CCTV of the Main tile downstream of the project limits was not performed due to time constraints of railroad permitting. It should be noted that the above costs do not include any administrative costs, legal costs, interest on construction warrants, or damage claims.

## Damages

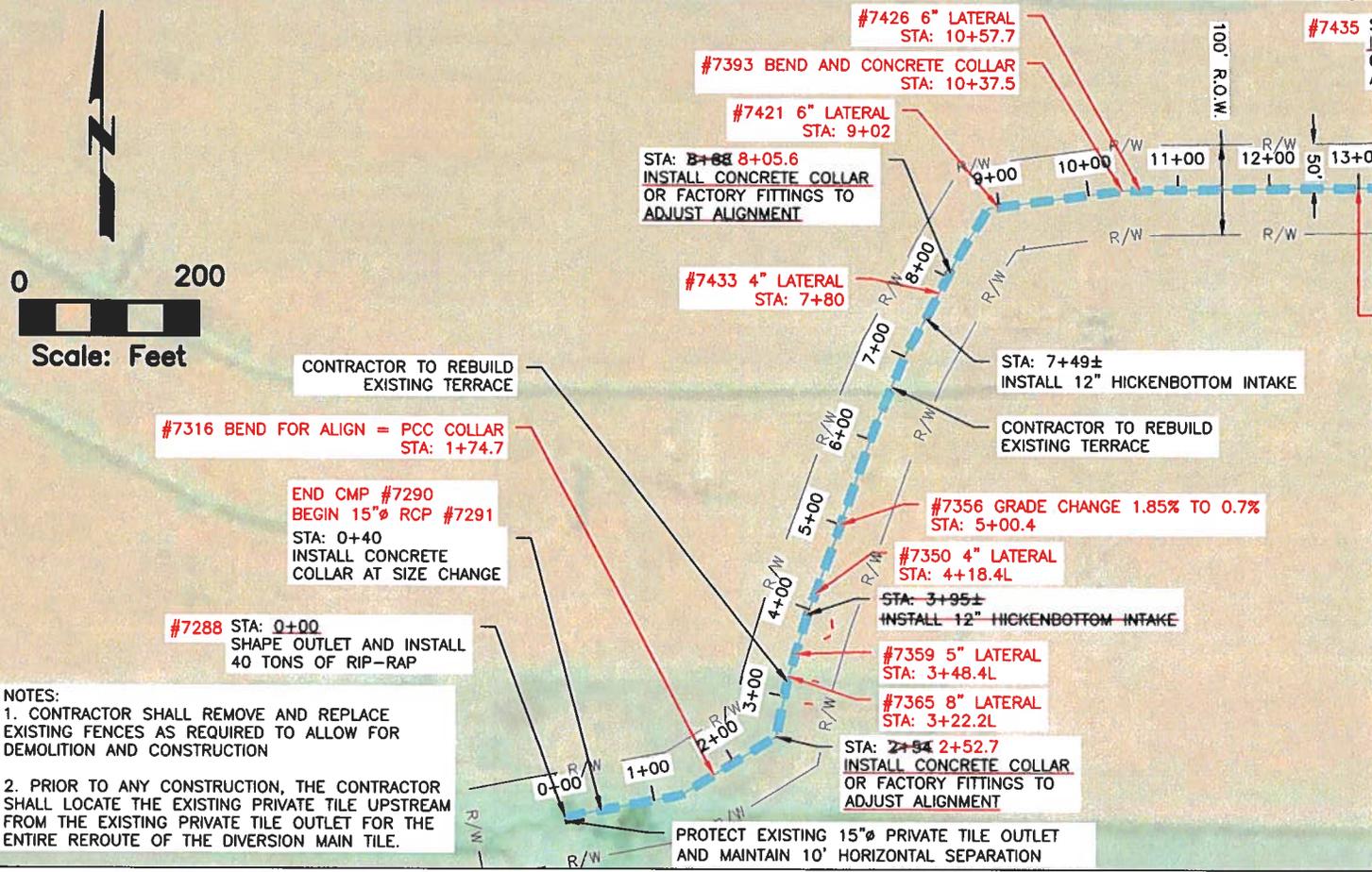
During construction, fences were removed at one location by the contractor. The contractor did not repair these as they indicated that the tenant did not want them repaired.

Property Owner	Fence Damage (feet)
Ronald Sailer	25
Tom & Sheryl Roberts, Trust	25

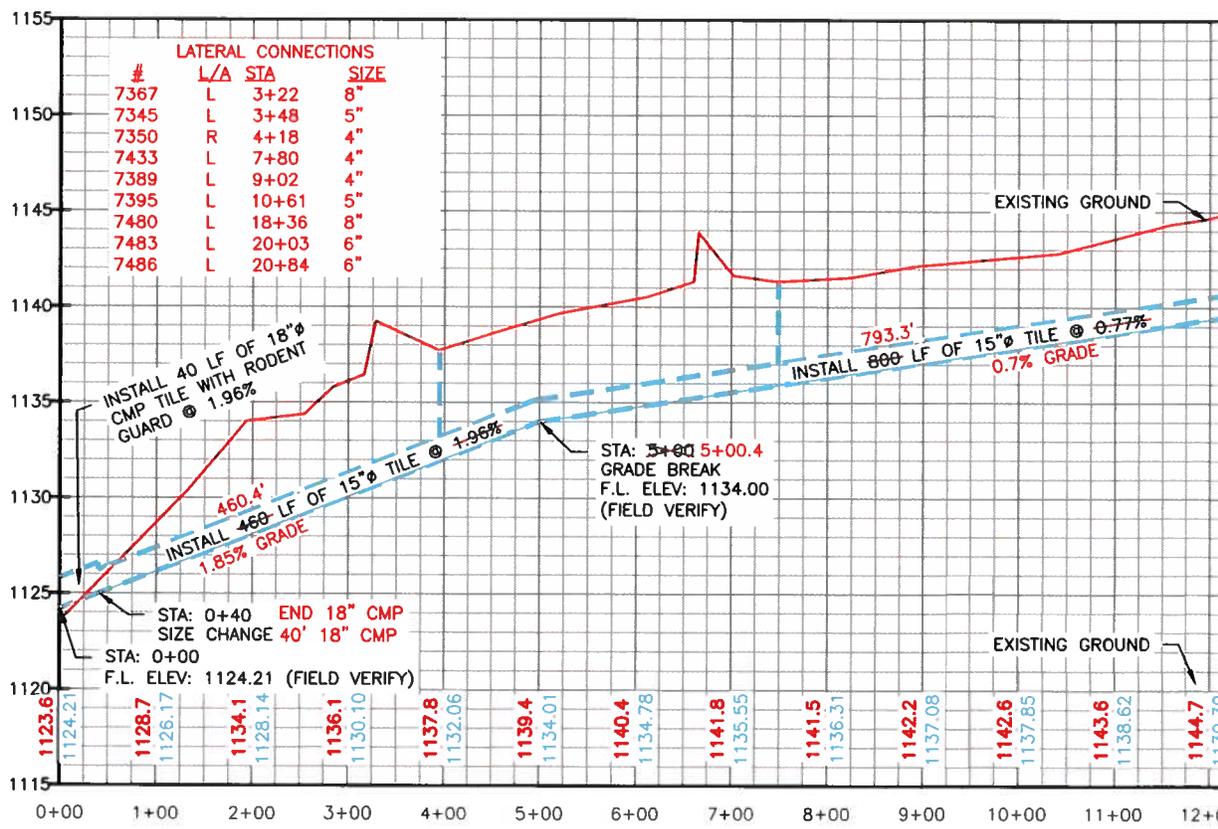
It should also be noted that in addition to the above, there may be additional landowners or tenants who file damage claims. It is our recommendation that those claims (if filed) be evaluated individually.

## Pending Items

As of the writing of this report, this project is complete (including punchlist items) in general accordance with the authorized plans and specifications and lien waivers for suppliers have been submitted by the general contractor (for reference see Appendix X). After the completion hearing, final payment of \$16,346.84 needs to be authorized by the Trustees. It is our recommendation that the project be accepted. We also recommend that the entire project be walked and reviewed just prior to the expiration of the contract warranty period for any warranty items that may need to be remedied by the contractor. It should be noted that if the Trustees decide to have Clapsaddle-Garber Associates exercise this recommendation, there are no engineering fees included in the above Final Project Costs to cover this service. In addition it is our recommendation that for the portion of the Main tile in the railroad right of way at the downstream limits of investigation of the Engineers Report, that the Main tile is jet cleaned along with CCTV inspected to verify its condition and all trees inside the railroad right of way be remove.



NOTES:  
 1. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING FENCES AS REQUIRED TO ALLOW FOR DEMOLITION AND CONSTRUCTION  
 2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL LOCATE THE EXISTING PRIVATE TILE OUTLET FROM THE EXISTING PRIVATE TILE OUTLET FOR THE ENTIRE REROUTE OF THE DIVERSION MAIN TILE.



**PAY ESTIMATE NO. 2 (FINAL)**  
**UPPER MAIN TILE DIVERSION DD #9, HARDIN COUNTY, IA**  
**PROJECT NUMBER: 6735.1**  
**DATE: 03-29-21**

**CONTRACTOR**

Gehrke Inc.  
 1405 21st Ave.  
 Eldora, IA 50627

**OWNER**

Trustees of Drainage District #9  
 Hardin County Courthouse  
 1215 Edgington Ave., Suite 1  
 Eldora, Iowa 50627

**ENGINEER**

Clapsaddle-Garber Associates  
 739 Park Avenue  
 Ackley, Iowa 50601

**DD 9 ALTERNATE BID**

Item No.	Description	Estimated Quantity	Unit	Installed Quantity	Unit Price	Extended Price
1ALT*	15" Ø RCP Tile (rock bedding and backfill)	30	LF	251	\$ 34.00	\$ 8,534.00
2ALT	18" Ø CMP Tile Outlet	40	LF	40	\$ 129.00	\$ 5,160.00
3ALT	Junction Structure with Intake	1	EA	1	\$ 6,380.00	\$ 6,380.00
4ALT	Concrete Collar	4	EA	4	\$ 250.00	\$ 1,000.00
5ALT	Private Tile Connection	4	EA	9	\$ 450.00	\$ 4,050.00
6ALT	12" Ø Hickenbottom Intake	2	EA	0	\$ 775.00	\$ -
7ALT	Rip-Rap	40	TN	30.32	\$ 50.00	\$ 1,516.00
8ALT	Tile Removal	10	LF	8	\$ 24.00	\$ 192.00
9ALT	Fences	1	LS	1	\$ 1,500.00	\$ 1,500.00
10ALT	Rebuild Terrace	2	LS	2	\$ 1,500.00	\$ 3,000.00
11ALT	Outlet Shaping	1	LS	1	\$ 1,500.00	\$ 1,500.00
12ALT	Locate Private Tile	25	STA	12.39	\$ 260.00	\$ 3,221.40
13ALT	Exploratory Excavation	2	HR	3.5	\$ 580.00	\$ 2,030.00
14ALT	Plug Existing Tile	2	LOC	1	\$ 385.00	\$ 385.00
15ALT	Seeding	1	LS	1	\$ 3,500.00	\$ 3,500.00
16ALT	Seeding Warranty	1	LS	1	\$ 100.00	\$ 100.00
17ALT*	15" Ø RCP Tile (spoon installation)	2500	LF	2250	\$ 32.00	\$ 72,000.00
18ALT**	Rerouting and Modifying Lateral Tile	1	LS	1	\$ 3,500.00	\$ 3,500.00

I have reviewed the work claimed to be completed by the Contractor as reflected above and recommend payment of **\$ 16,346.84** to the Contractor.

  
 Lee Gallentine, Project Engineer

TOTAL WORK COMPLETED TO DATE	\$ 117,568.40
# RETENTION	\$ -
AMOUNT DUE LESS RETENTION	\$ 117,568.40
PREVIOUSLY PAID	\$ 101,221.56
AMOUNT DUE AT THIS TIME	\$ 16,346.84

Contractor

- \* - Approved as part of Change Order #1
- \*\* - Approved as part of Change Order #2



**UPPER MAIN TILE DIVERSION DD #9, HARDIN COUNTY, IA**

**PROJECT NUMBER: 6735.1**

**DATE: 03-29-21**

**CONTRACTOR**

Gehrke Inc.  
1405 21st Ave.  
Eldora, IA 50627

**OWNER**

Trustees of Drainage District #9  
Hardin County Courthouse  
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**ENGINEER**

Clapsaddle-Garber Associates  
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AMOUNT DUE LESS RETENTION	\$ 117,568.40
PREVIOUSLY PAID	\$ 101,221.56

Lee Gallentine, Project Engineer

AMOUNT DUE AT THIS TIME \$ 16,346.84

  
Contractor

- \* - Approved as part of Change Order #1
- \*\* - Approved as part of Change Order #2



**WAIVER OF LIEN**

State of Iowa

Date: 3-8-21

I/We, the undersigned, have been employed by Gehrke Inc. P.O. Box 228, Eldora, Iowa 50627 to furnish labor and/or materials as described below for the construction, repair or reconstruction of the property or improvements to the property known as DD 9 Upper Main Tile Diversion, in Hardin County, State of Iowa.

Description of work or materials provided: RipRap

Amount \$ 1,462.40 to date shown above. Final  Partial

For and in consideration of my/our employment to furnish said labor and/or materials. I/We do hereby waive and release any and all my/our rights, or claim of rights, to file and establish a mechanics lien against the above mentioned property, and improvements to the property, given to me/us under the provisions of the statutes and laws of the State of Iowa, relating to mechanic's liens on account of labor or materials, or both furnished, or which may be furnished by me/us for, and on, the above mentioned property and improvements to the same.

Executed at Eldora, Iowa, this 10<sup>th</sup> day of March 2021.

Gehrke Quarries  
Company Name

[Signature]  
By

**WAIVER OF LIEN**

State of Iowa

Date: 3-8-21

I/We, the undersigned, have been employed by Gehrke Inc. P.O. Box 228, Eldora, Iowa 50627 to furnish labor and/or materials as described below for the construction, repair or reconstruction of the property or improvements to the property known as DD 9 Upper Main Tile Diversion, in Hardin County, State of Iowa.

Description of work or materials provided: Concrete

Amount \$ 1,684.63 to date shown above. Final  Partial

For and in consideration of my/our employment to furnish said labor and/or materials. I/We do hereby waive and release any and all my/our rights, or claim of rights, to file and establish a mechanics lien against the above mentioned property, and improvements to the property, given to me/us under the provisions of the statutes and laws of the State of Iowa, relating to mechanic's liens on account of labor or materials, or both furnished, or which may be furnished by me/us for, and on, the above mentioned property and improvements to the same.

Executed at Marshalltown, Iowa, this 9 day of March 2021.

Concrete Inc.  
Company Name

[Signature]  
By

Brown Supply

**WAIVER OF LIEN**

State of Iowa

Date: 3-8-21

I/We, the undersigned, have been employed by Gehrke Inc. P.O. Box 228, Eldora, Iowa 50627 to furnish labor and/or materials as described below for the construction, repair or reconstruction of the property or improvements to the property known as DD 9 Upper Main Tile Diversion, in Hardin County, State of Iowa.

Description of work or materials provided: DW Pipe, Fittings, CMP Intake

Amount \$ 1,785.61 to date shown above. Final  Partial

For and in consideration of my/our employment to furnish said labor and/or materials. I/We do hereby waive and release any and all my/our rights, or claim of rights, to file and establish a mechanics lien against the above mentioned property, and improvements to the property, given to me/us under the provisions of the statutes and laws of the State of Iowa, relating to mechanic's liens on account of labor or materials, or both furnished, or which may be furnished by me/us for, and on, the above mentioned property and improvements to the same.

Executed at Amos, Iowa, this 8th day of March 2021.

Brown Supply Co.  
Company Name

[Signature]  
By

**WAIVER OF LIEN**

State of Iowa

Date: 3-8-21

I/We, the undersigned, have been employed by Gehrke Inc. P.O. Box 228, Eldora, Iowa 50627 to furnish labor and/or materials as described below for the construction, repair or reconstruction of the property or improvements to the property known as DD 9 Upper Main Tile Diversion, in Hardin County, State of Iowa.

Description of work or materials provided: Seeding

Amount \$ 3,500.00 to date shown above. Final  Partial

---

For and in consideration of my/our employment to furnish said labor and/or materials. I/We do hereby waive and release any and all my/our rights, or claim of rights, to file and establish a mechanics lien against the above mentioned property, and improvements to the property, given to me/us under the provisions of the statutes and laws of the State of Iowa, relating to mechanic's liens on account of labor or materials, or both furnished, or which may be furnished by me/us for, and on, the above mentioned property and improvements to the same.

Executed at Forest City, Iowa, this 8<sup>th</sup> day of March 2021.

Lakeside Construction, Inc.  
Company Name

  
By

Martin Marietta

**WAIVER OF LIEN**

State of Iowa

Date: 3-8-21

I/We, the undersigned, have been employed by Gehrke Inc. P.O. Box 228, Eldora, Iowa 50627 to furnish labor and/or materials as described below for the construction, repair or reconstruction of the property or improvements to the property known as DD 9 Upper Main Tile Diversion, in Hardin County, State of Iowa.

Description of work or materials provided: Aggregates

Amount \$ 1,448.44 to date shown above. Final  Partial

For and in consideration of my/our employment to furnish said labor and/or materials. I/We do hereby waive and release any and all my/our rights, or claim of rights, to file and establish a mechanics lien against the above mentioned property, and improvements to the property, given to me/us under the provisions of the statutes and laws of the State of Iowa, relating to mechanic's liens on account of labor or materials, or both furnished, or which may be furnished by me/us for, and on, the above mentioned property and improvements to the same.

Executed at Dayton, Ohio, this 12 day of March 2021

Martin Marietta  
Company Name

Thomas C. Lowry  
By Thomas C. Lowry  
Sr. Credit Rep

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**WAIVER OF LIEN**

State of Iowa

Date: 3-8-21

I/We, the undersigned, have been employed by Gehrke Inc. P.O. Box 228, Eldora, Iowa 50627 to furnish labor and/or materials as described below for the construction, repair or reconstruction of the property or improvements to the property known as DD 9 Upper Main Tile Diversion, in Hardin County, State of Iowa.

Description of work or materials provided: RCP Precast Intakes

Amount \$ 33,109.02 to date shown above. Final  Partial

For and in consideration of my/our employment to furnish said labor and/or materials. I/We do hereby waive and release any and all my/our rights, or claim of rights, to file and establish a mechanics lien against the above mentioned property, and improvements to the property, given to me/us under the provisions of the statutes and laws of the State of Iowa, relating to mechanic's liens on account of labor or materials, or both furnished, or which may be furnished by me/us for, and on, the above mentioned property and improvements to the same.

Executed at Maick Grace, MN, this 25 day of March 2021

Forterra  
Company Name

By [Signature]

**HARDIN COUNTY, IOWA**

**2021**



**CONSTRUCTION OBSERVATION  
REPORTS, PICTURES AND COORDINATES  
OF THE MAIN TILE DIVERSION  
DRAINAGE DISTRICT 9  
HARDIN COUNTY, IOWA  
PART 1 OF 1**



**CLAPSADDLE-GARBER ASSOCIATES OFFICE LOCATIONS**

16 East Main Street, PO Box 754 | Marshalltown, IA 50158  
1523 S. Bell Avenue, Suite 101 | Ames, IA 50010  
5106 Nordic Drive | Cedar Falls, IA 50613  
739 Park Avenue | Ackley, IA 50601  
511 Bank Street | Webster City, IA 50595

**Project Office**  
739 Park Avenue  
Ackley, IA. 50601  
Phone: 641-847-3273  
Fax: 641-847-2303

**Construction Observation Reports, Pictures, and Coordinates for  
Construction of the Upper Main Tile Diversion,  
Drainage District 9  
Hardin County, Iowa**

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**Appendices**

Construction Observation Reports and Pictures  
Coordinates

App. E  
App. F

# Project Diary

Project: <b>HARDIN DD#9 UPPER MAIN TILE DIVERSION</b>			
CGA PN: <b>6735.1</b> <b>6735 DD9 H. SURVEY</b>	Days Charged: <b>1</b>	Report No. <b>1</b>	Proj. Mgr. <input checked="" type="checkbox"/> <b>LEE</b>
Contractor: <b>GEHRKE, INC.</b>		Date: <b>10/20/2020</b>	<b>GALLETINE</b>
Superintendent: <b>JUSTIN VAUGHN</b>	Weather Conditions: <b>CLOUDY WITH LIGHT RAIN/GRIZZLE/ MIST BY AFTERNOON &amp; BREEZY</b>	Precip.: <b>NOT MEASURABLE</b>	Temp. Hi: <b>LOW 40°</b> Temp. Low: <b>MID 30°</b>
INSPECTOR: Time Arrived: <b>8:20</b>	Time Left: <b>3:30</b>	Contractor: Time Arrived:	Time Left: <b>3:10</b>
<p>1. General Remarks and Work Accomplished:</p> <p><b>GEHRKE HAD 3 MAN CREW AND JOHNDEERE 350 G EXCAVATOR ON SITE AND WAS STARTING TO LOCATE PRIVATE TILE FROM 10" CMP OUTLET &amp; 12" CMP OUTLET</b></p> <p><b>8:40 JEREMY MAAS WITH GEHRKE, INC STOPPED BY SITE TO SEE HOW THINGS WERE GOING.</b></p> <p><b>9:10 A.M OBSERVER SET GPS BASE ON #4 3/4" Ø FROW REROD 0.3' DEEP IN EAST SHOULDER OF DEAD END GRAVEL ROAD (IAVE) 352.8' NORTH OF E OF 17938 IAVE ACREAGE DRIVE</b></p> <p><b>7:40 A.M CHECKED INTO GPS #90 HARDIN COUNTY GPS #9024 GOOD HORIZONTAL POSITION &amp; WITHIN .04' VERTICAL POSITION.</b></p> <p><b>9:50 A.M BACK ON SITE CREW WAS STILL LOCATING TILE</b></p> <p><b>10:35 A.M. CREW DONE LOCATING TILE FOR NOW. 3 SEMI LOADS OF 15" RCP ARRIVED ON SITE AND UNLOADING THEM, OBSERVER STARTED SHOOTING TILE LOCATES. GEHRKE'S DROPPED OFF A JOHN DEERE 350 D LC EXCAVATOR</b></p> <p><b>12:00 P.M. CREW STOPPED FOR LUNCH. 12:30 P.M. CREW DONE WITH LUNCH</b></p> <p><b>OBSERVER STAKED OUT LOCATION WEST OF RAILROAD ROW BY PROJECTING LINE FROM GPS SHOTS ON EAST SIDE OF RR ROW (GPS # 344 FL 15" CLAY TILE TO GPS # 359 TILE LOCATE TO GIVE CREW A LOCATION TO START EXCAVATING FOR</b></p>			
2. Changes or Extra Work Ordered:		<b>THE MAIN, LATI, LATZ CONNECTION (CONTINUED)</b>	
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done: <b>3 SEMI LOADS OF 15" RCP HAULED INTO SITE</b>			
6. Attachments (total sheets attached <u>0</u> ):			

# Project Diary (continued)

CGA PN:

6735.1  
6735 DD9 H. SURVEY

Report  
No. 1

Date: 10/20/2020

1. General Remarks and Work Accomplished (Continued):

12:35 P.M. GEHRKE 3 MAN CREW & 350D LC EXCAVATOR HEADED TO EXPLORE FOR MAIN, LAT 1, & LAT 2 CONNECTION

12:45 P.M. CREW STARTED EXPLORATORY EXCAVATION, CREW EXCAVATED TRENCH 4.0' DEEP PARALLEL WITH RR TRACKS 30' NE & 30' SW FROM LOCATION OBSERVER STAKED OUT. CREW NEVER FOUND ANYTHING OR EVEN EVIDENCE OF A TRENCH. CREW WAS PROBING FOR TILE WITH NO LUCK. CREW STARTED EXCAVATING DEEPER NEAR LOCATION PROJECTED TILE FROM EAST OF TRACKS,

1:25 P.M. CREW HAD 8" CLAY TILE MAIN EXPOSED AFTER 40 MINUTES OF EXPLORATION. CREW STARTED LOCATING 8" MAIN. OBSERVER SHOT LOCATES.

1:45 P.M. SITE RECEIVING HEAVY MIST/LIGHT RAIN

1:50 P.M. CREW STARTED EXCAVATING ABOVE 8" MAIN FROM GPS# 7237 17.2' OFF WEST ROW RR TRACKS TO FIND LAT 1 & LAT 2 TIE IN CONNECTION. CREW CLEANED OFF TOP OF TILE & PROBED SIDE OF 8" MAIN TO FIND CONNECTIONS.

2:20 P.M. CREW HAD 42.6' AN STOPPED WITH BOTH CREW & OBSERVER THINKING IT SHOULDNT BE ANY FURTHER WEST. IT COULD BE IN RR ROW OR 12.5' ± NOT EXPOSED UP TO RR ROW. OBSERVER SHOT TOP OF EXPOSED 8" MAIN, CREW HAD 30 MINUTES OF EXPLORATION.

3:10 P.M. CREW, DECIDED TO STOP FOR DAY DUE TO THE WEATHER AND START AGAIN TOMORROW MORNING.

GEHRKE DROPPED OFF JOHN DEERE 850J DOZER AND JUNCTION STRUCTURE ON SITE

3:30 P.M. OBSERVER, TOOK DOWN GPS AND LEFT SITE.

File Edit Format View Help

- 7130, 3630324.467, 4960910.507, 1128.207, 323
- 7131, 3630314.992, 4960909.272, 1122.291, 321
- 7132, 3630314.455, 4960963.297, 1125.404, 513 15
- 7133, 3630315.352, 4960962.932, 1123.242, 321
- 7134, 3630322.023, 4960778.404, 1127.047, 323
- 7135, 3630313.418, 4960778.747, 1121.089, 321
- 7136, 3630323.519, 4960705.887, 1126.459, 323
- 7137, 3630311.627, 4960706.207, 1120.803, 323
- 7200, 3630318.481, 4960963.009, 1125.105, 960 10" spiral 0.87'toptofl
- 7201, 3630331.474, 4960973.740, 1129.299, 300 tile locate
- 7202, 3630353.846, 4960988.449, 1129.257, 300 tile locate
- 7203, 3630371.614, 4961015.927, 1130.037, 300 tile locate
- 7204, 3630386.157, 4961060.869, 1132.443, 300 tile locate
- 7205, 3630399.510, 4961111.980, 1134.938, 300 tile locate
- 7206, 3630418.294, 4961147.401, 1136.395, 300 tile locate
- 7207, 3630465.141, 4961180.567, 1137.244, 300 tile locate
- 7208, 3630512.773, 4961188.414, 1138.467, 300 tile locate
- 7209, 3630480.485, 4961182.338, 1139.323, 300 field/terrace
- 7210, 3630551.787, 4961190.102, 1138.029, 300 tile locate
- 7211, 3630311.645, 4960961.487, 1122.786, 507 ditch BY OUTLET
- 7212, 3630314.260, 4960963.263, 1125.430, 960 12" spiral 1.07'toptofl
- 7213, 3630330.961, 4960979.466, 1129.358, 300 tile locate
- 7214, 3630341.934, 4960991.367, 1128.936, 300 tile locate
- 7215, 3630353.697, 4961009.941, 1129.627, 300 tile locate
- 7216, 3630357.498, 4961032.596, 1130.259, 300 tile locate
- 7217, 3630366.135, 4961054.900, 1131.121, 300 tile locate
- 7218, 3630373.286, 4961087.302, 1132.591, 300 tile locate
- 7219, 3630370.575, 4961131.688, 1132.868, 300 tile locate
- 7220, 3630370.210, 4961157.733, 1132.621, 300 tile locate
- 7221, 3630368.085, 4961177.370, 1133.395, 300 tile locate
- 7222, 3630386.888, 4961196.715, 1134.154, 300 tile locate
- 7223, 3630422.109, 4961213.068, 1134.906, 300 tile locate
- 7224, 3630481.269, 4961222.149, 1139.344, 300 tile locate
- 7225, 3630523.029, 4961220.663, 1138.063, 300 tile locate
- 7226, 3630478.478, 4961221.290, 1139.269, 300 top terrace
- 7227, 3630373.644, 4961087.280, 1132.594, 300
- 7228, 3630371.966, 4961086.010, 1128.955, 513 se 10" 0.92'toptofl
- 7229, 3630373.485, 4961085.856, 1128.808, 513 e 10" 0.92'toptofl
- 7230, 3630354.331, 4961093.545, 1131.283, 300 tile locate
- 7231, 3630342.343, 4961106.939, 1130.652, 300 tile locate
- 7232, 3630346.301, 4961123.957, 1131.185, 300 tile locate
- 7233, 3630357.397, 4961153.918, 1132.366, 300
- 7234, 3630358.024, 4961155.758, 1130.302, 962 10" 0.94'toptofl
- 7235, 3630321.280, 4961250.170, 1138.296, 324 e-w
- 7236, 3630325.407, 4961054.173, 1131.408, 324 e
- 7237, 3631087.556, 4963082.915, 1142.478, 963 8"
- 7238, 3631084.412, 4963086.408, 1142.458, 963 8"
- 7239, 3631183.374, 4963026.932, 1148.082, 300 tile locate
- 7240, 3631237.183, 4963014.828, 1148.351, 300 tile locate
- 7241, 3631095.442, 4963073.700, 1143.257, 962 8" 0.73'toptofl
- 7242, 3631099.644, 4963068.995, 1143.342, 962 8" 0.73'toptofl
- 7243, 3631103.220, 4963065.228, 1143.367, 962 8" 0.73'toptofl
- 7244, 3631106.331, 4963062.336, 1143.449, 962 8" 0.73'toptofl
- 7245, 3631111.984, 4963057.780, 1143.553, 962 8" 0.73'toptofl
- 7246, 3631117.896, 4963053.287, 1143.572, 962 8" 0.73'toptofl
- 7247, 3631249.567, 4962662.998, 1150.612, 324 n side cut
- 7248, 3631214.897, 4962662.932, 1150.544, 324 s side cut
- 8016, 3618659.060, 4946889.650, 1169.720, GPS MON
- 8016\_GNSS, 3618659.060, 4946889.650, 1169.720, Autonomous Setup

TILE LOCATE 10" SPIRAL COMP OUTLET PRIVATE

TILE LOCATE 12" SPIRAL COMP OUTLET PRIVATE

PRIVATE 12" OUTLET TILE TO USHAPE TILE CONNECTION

PRIVATE ON USHAPE TILE FENCE SOUTH PRIVATE TILE

8" MAIN BY R TRACKS

MAIN BY R TRACKS LOCATES

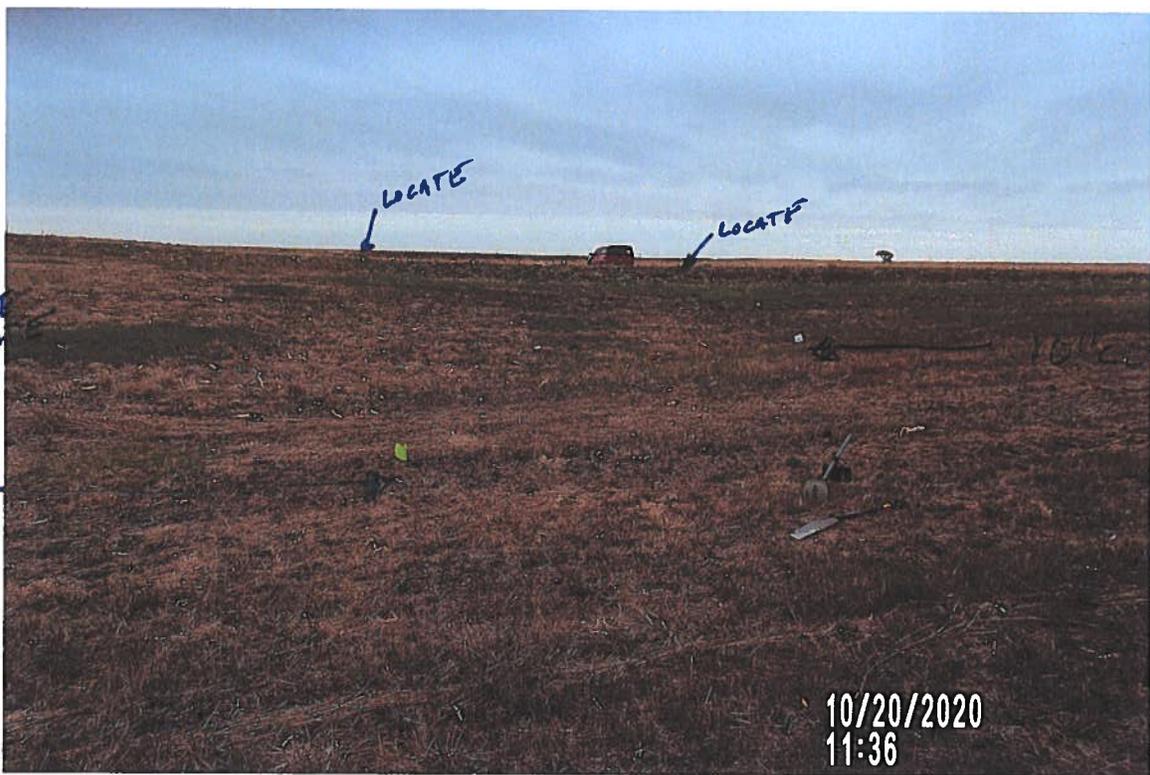
MAIN BY R TRACKS

PICTURE #4666 IS LOOKING WEST FROM GPS#7221 AT PRIVATE TILE WYE CONNECTION LOCATES.



GPS# 7221  
PRIVATE TILE  
WYE CONNECTION  
10" CONGTILE  
WEST TO 12"  
CAP SPIRAL  
OUTLET &  
10" CLAY TILE  
SW IN AN  
SHAPE &  
TIES BACK  
INTO 10"  
CONGTILE  
RUNNING E-W

10/20/2020  
11:36



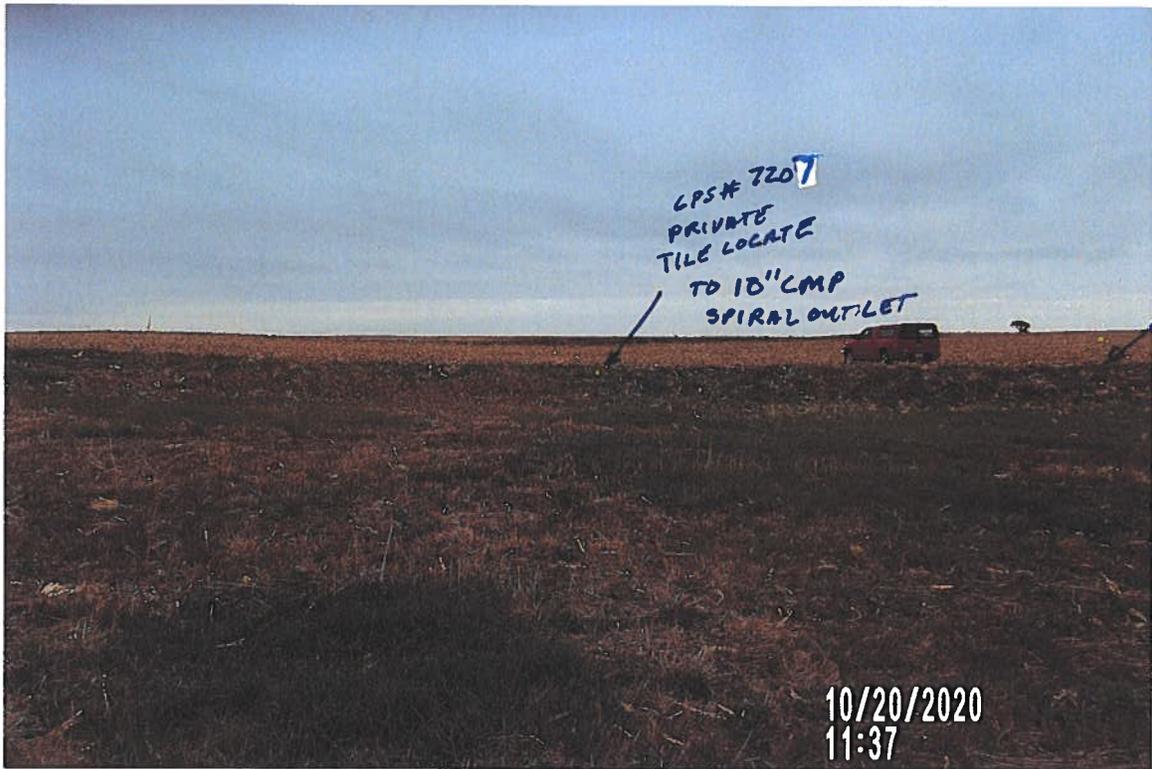
PRIVATE  
CLAY TILE  
LOCATE  
TO  
CONNECTION  
AT GPS#  
7221

PRIVATE  
TILE LOCATE  
TO 10" CAP  
SPIRAL  
OUTLET  
NORTH OF  
THIS LOCATE  
IS A  
8" HDPE  
SW TILE

10/20/2020  
11:36

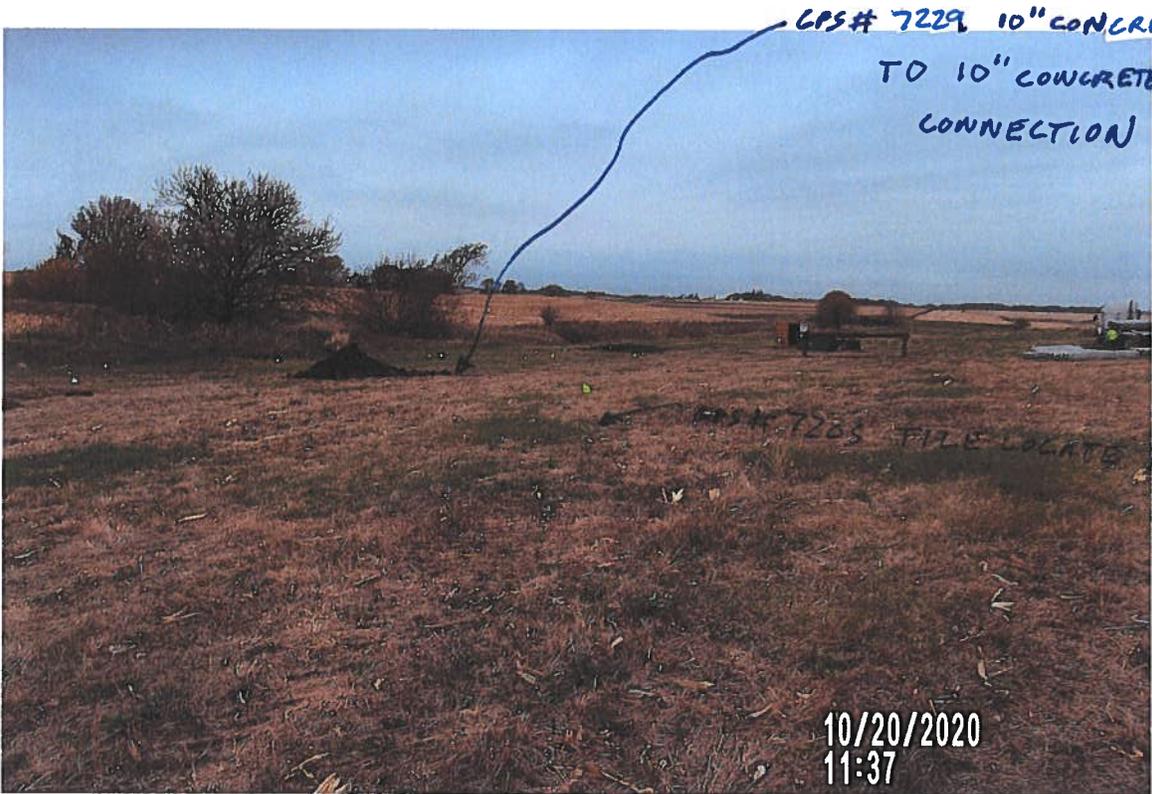
PICTURE #4667 IS LOOKING NORTH OF GPS#7221 CONNECTION SHOWING BOTH PRIVATE TILE LOCATES GOING NORTH TO 1ST TERRACE.

PICTURE # 4668 IS LOOKING NE AT PRIVATE TILE LOCATES NORTH OF TERRACE



GPS# 7224  
PRIVATE  
TILE  
LOCATE  
TO WYE  
@ GPS#  
7221

10/20/2020  
11:37



GPS# 7229 10" CONCRETE TILE  
TO 10" CONCRETE SE  
CONNECTION



GPS# 7205 TILE LOCATE TO 10" SPIRAL  
CMP OUTLET

10/20/2020  
11:37

PICTURE # 4669 LOOKING SW SHOWING NORTH TILE LOCATES (FROM 10" SPIRAL OUTLET)  
- & SOIL PILE  
- WHERE 10" CONCRETE TILE (FROM 12" SPIRAL CMP OUTLET)  
HAS CONNECTION WITH U SHAPED TILE ROUTE SOUTH OF 10" CONCRETE

PICTURE# 4670 IS LOOKING NE SHOWING PRIVATE TILE  
OUTLETS INTO CREEK



PICTURE# 4671 IS LOOKING NE SHOWING TILE LOCATES  
FOR BOTH PRIVATE TILE NE OF OUTLETS TO CREEK

PICTURE # 4672 IS LOOKING EAST SHOWING FENCE  
REMOVED TO ENTER. NEXT FIELD TO EAST  
TO EXPOSE MAIN, LAT1, LAT2 CONNECTION WEST RR  
TRACKS

CPS# 7247  
NORTH END  
OF FENCE  
REMOVED

CPS# 7248  
SOUTH  
END  
OF FENCE  
REMOVED



PICTURE # 4673 IS LOOKING SW SHOWING CREW EXCAVATING  
TRENCH NEAR WHERE TILE LOCATES PROJECT ACROSS  
TRACKS & ABOUT 12.5' WEST O.F WEST RR ROW FENCE

PICTURE # 4674 IS LOOKING SW SHOWING CREW RUNNING LOCATE CABLE UPSTREAM TO LOCATE WHERE 8" MAIN RUNS UP STREAM. CREW EXCAVATED AT TRENCH 38' SW & 22.0' NE OF PROTECTED TILE LOCATES 3.5' DEEP BUT NEVER FOUND

GPS # 7238  
TOP 8" CLAY TILE  
5.3' ± DEEP



TRENCH. EXCAVATED 5.0' DEEP AT PROTECTED LINE AREA AGAIN AND HIT TILE.  
GPS # 7237  
TOP 8" CLAY TILE 5.3' DEEP



10/20/2020  
13:52



10/20/2020  
14:03

GPS # 7237 TOP 8" CLAY TILE.

PICTURE # 4675 IS LOOKING NW SHOWING CREW EXCAVATING ABOVE 8" MAIN AND SPADING OFF TOP OF TILE. CREW PROBED ON EACH SIDE OF TILE TO FIND LAT 1 & LAT 2

PICTURE #4676 IS LOOKING SE SHOWING 42.5' OF 8" CLAY TILE MAIN EXPOSED AND SIDES PROBED BUT NEVER FOUND LAT1 OR LAT2 CONNECTION.

6PS# 7237 TOP 8" CLAY TILE MAIN



10/20/2020  
14:37

6PS# 7246 TOP 8" CLAY TILE (4.5' ± DEEP)

6PS# 7229  
TOP 10" CONCRETE  
TILE  
(0.92' TOP TO FL)  
(3.8' ± DEEP)

6PS# 7228  
TOP 10" CONCRETE  
TILE  
(0.92' TOP TO FL)  
3.6' ± DEEP



10/20/2020  
15:11

PICTURE # 4677 IS LOOKING EAST SHOWING 10" CONCRETE TILE FROM 12" SPIRAL OUTLET WITH 8" CLAY TILE CONNECTION FROM S

PICTURE # 4678 IS LOOKING NE SHOWING 10" CLAY TILE  
IN U-SHAPED ROUTE BETWEEN UPSTREAM AND DOWNSTREAM,  
CONNECTION TO 16" CONCRETE TILE,



GPS #3234  
TOP 10"  
CLAY TILE  
0.94' TOP  
TO FL  
(2.0' ± DEEP)

10/20/2020  
15:11

# Project Diary

Project: <u>HARDIN DD# 9 UPPER MAINTILE DIVERSION</u>			
CGA PN: <u>6735.1</u> <u>6735 DD9 H. SURVEY</u>	Days Charged: <u>2</u>	Report No. <u>2</u>	Proj. Mgr. <input checked="" type="checkbox"/> <u>LEE</u>
Contractor: <u>GEHRKE, INC.</u>		Date: <u>10/21/2020</u>	<u>WEDNESDAY</u> <u>CALLENTINE</u>
Superintendent: <u>JUSTIN VAUGHN</u>	Weather Conditions: <u>CLOUDY TO PARTLY CLOUDY WINDS</u>	Precip.: <u>N.A.</u>	Temp. Hi: <u>UPPER 40</u> ° Temp. Low: <u>MID 30</u> °
INSPECTOR: Time Arrived: <u>8:20 A.M.</u> Time Left: <u>7:00 P.M.</u>	Contractor: Time Arrived: _____ Time Left: <u>6:00 P.M.</u>		
<p>1. General Remarks and Work Accomplished:</p> <p><u>8:20 A.M. OBSERVER ON SITE. 3 MAN CREW AND JEREMY ON SITE. GEHRKES HAD JD 624 L LOADER ON SITE. JUSTIN SAID CMP WOULD BE ON SITE THIS AFTER NOON FOR FIRST 40' FROM OUTLET. CREW WAS RUNNING LOCATOR THROUGH TILE TO VERIFY LOCATION &amp; TO LOCATE TILE FROM TERRACE #1 TO PAST TERRACE #2. CREW WAS REQUESTING LOCATION OF TILE TO UNLOAD TILE AT 8:30 A.M. PAUL WITH WILLIAMS UNDERGROUND SERVICES ARRIVED ON SITE TO TELEVISION B" MAIN BY RR TRACKS TO FIND LAT 1 &amp; LAT 2 CONNECTION. JEREMY CALLED HIM TO TELEVISION FOR CONNECTION WITHOUT CHECKING WITH LEE ABOUT IT. PAUL TELEVISION 12.3' DOWNSTREAM FOUND LAT 1 CONNECTION BUT COULD NOT MAKE IT ANY FURTHER. TELEVISION UPSTREAM FROM 40' DOWNSTREAM FROM GPS # 7246 &amp; COULD NOT LOCATE ANY TIE IN CONNECTION.</u></p> <p><u>10:00 A.M. PAUL DONE TELEVISION BUT COULD NOT LOCATE LAT 2 CONNECTION.</u></p> <p><u>10:20 A.M. PAUL LEFT SITE 10:30 A.M. JEREMY LEFT SITE</u></p> <p><u>10:30 A.M. OBSERVER SET BASE ON 3/4" FROM REROD AT GPS # 4</u></p> <p><u>10:35 A.M. CHRIS ON SITE TO SET PLAN &amp; OF TILE REPAIR FOR CREW TO STRING OUT TILE</u></p> <p><u>11:00 A.M. OBSERVER CHECKED INTO GPS # 9 HARDIN CIS MONUMENT # 8024 <span style="float: right;">GOOD HORIZONTAL F+0.3' TO .04' VERTICAL (CONTINUED)</span></u></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
<p><u>PAUL WITH WILLIAMS UNDERGROUND SERVICES &amp; TELEVISION EQUIPMENT ON SITE 8:30 AND LEFT SITE 10:20 A.M. TELEVISION DOWNSTREAM FROM GPS # 7238 12.3' TO FIND LAT # 1 AND COULD NOT GET ANY TRACTION TO GO FURTHER, TELEVISION UPSTREAM FROM 40' SE OF GPS # 7246 <u>85.3'</u> BUT NEVER FOUND LAT # 2 CONNECTION.</u></p>			
6. Attachments (total sheets attached <u>0</u> ):			

# Project Diary (continued)

CGA PN: <sup>6735.1</sup> 6735 009 H, SURVEY Report No. 2 Date: 10/21/20

1. General Remarks and Work Accomplished (Continued):

- 11:20 A.M. OBSERVER SHOT EXPOSED TILE & LOCATES FROM TERRACE 1 TO PAST TERRACE #2
- 11:30 A.M. TO 12:00 P.M. CREW STOPPED FOR LUNCH.
- 12:20 P.M. CREW EXCAVATED AT CONNECTION OF 10" CONCRETE TILE TO 10" CLAY TILE
- 12:55 P.M. CREW HAD CONNECTION EXPOSED AND HEADED TO WEST OF RR TRACKS ROW TO FIND LAT #1 & LAT #2 TILE IN FIELD WEST OF WEST RR ROW
- 1:20 P.M. CHRIS DONE STAKING  $\epsilon$  OF TILE REPAIR AND LEFT SITE,
- 1:25 P.M. CREW HAD BOTH LAT #2 & LAT #1 LOCATED WEST OF WEST RR ROW
- 1:30 P.M. CREW HEADED BACK TO BEGINNING OF PROJECT TO STRING OUT PIPE & SET UP TRENCH BOX GEMRKE HAD 3 SEMILOADS OF ROCK HAULED TO SITE. OBSERVER SHOT LAT #1 & LAT #2 TILE EXPOSED
- 2:30 P.M. OBSERVER ADJUSTED ALIGNMENT UP TO STATION 2+50 SINCE ORIGINAL PLAN RAN THROUGH PRIVATE TILE AT BEGINNING.
- 3:30 P.M. OBSERVER STARTED STAKING NEW  $\epsilon$  TILE REPAIR AND SET HUB WITH CUT TO PROPOSED FLOWLINE FOR NEW TILE REPAIR.
- 4:30 P.M. OBSERVER ADJUSTED ALIGNMENT FROM 2+50 TO 5+42.8 WHERE IT BLENDS BACK INTO ORIGINAL PROPOSED  $\epsilon$  FOR TILE REPAIR.

# Inspector's Project Diary

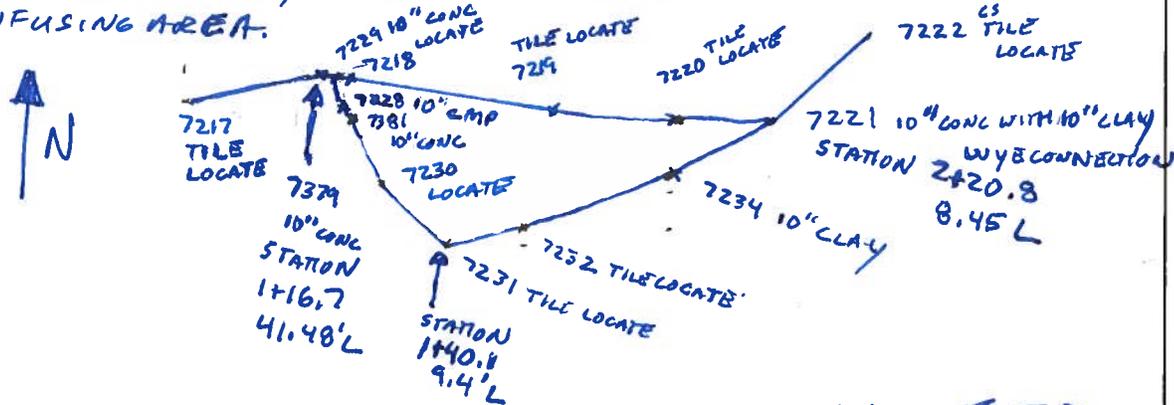
Project: <u>HARDIN DD9 REPAIR</u>		Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
CGA PN: <u>6735 DD9 H. SURVEY</u> <u>6735.1 DD#9 H</u>				<u>LEE</u>
Contractor: <u>GEHRKE, INC</u>		<u>WEDNESDAY</u>	Date: <u>10/21/2020</u>	<u>GALENTINE</u>
Superintendent: <u>JUSTIN VAUGHAN</u>	Weather Conditions: <u>CLOUDY LIGHT WINDS</u>	Precip.: <u>0:0 "</u>	Temp. Hi: <u>UPPER 40</u>	Temp. Low: <u>UPPER 30</u>
INSPECTOR: Time Arrived: <u>8:20 A.M.</u> Time Left: <u>6:45 P.M.</u>		Contractor: Time Arrived: <u>7:30 A.M.</u> Time Left: <u>6:00 P.M.</u>		
<p>1. General Remarks and Work Accomplished:</p> <p>8:20 A.M. OBSERVER ARRIVED ON SITE WITH JEREMY MAAS AND JUSTIN VAUGHAN ON SITE WITH JOHNDEERE 850J DOZER AND JOHNDEERE 324L LOADER AND 350G LOADER ON SITE FOR EQUIPMENT. 2 EMPLOYEES LOCATING AND EXPOSING PRIVATE TILE FROM TERRACE 1 NORTH TO TERRACE #2.</p> <p>8:35 A.M. PAUL ON SITE WITH CAMERA TO LOCATE LAT #1 &amp; LAT #2 TIE IN CONNECTIONS BY RR TRACKS,</p> <p>9:18 A.M. START TELEVISE DOWNSTREAM. FROM GPS# 7238 8" CLAY 0.0' 14.56' DOWNSTREAM LEFT MARKED &amp; SHOT LOCATION OF LAT 1 TIE IN GPS #7310.</p> <p>9:45 A.M. CAMERA TRACTOR COULD NOT GET ANY FURTHER DOWNSTREAM AND ABANDONED TELEVISING.</p> <p>9:50 A.M. TELEVISED UPSTREAM IN 8" CLAY TILE FROM GPS # 7237 TELEVISED 85.3' UPSTREAM &amp; COULD NOT FIND LAT 2 TIE IN FROM SOUTH OR OTHER LATERAL TIE INS.</p>				
2. Changes or Extra Work Ordered:				
3. Test Samples Taken:				
4. Visitors to Site:				
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done: <u>PAUL WILLIAMS WITH WILLIAMS UNDERGROUND SERVICE ON SITE TO TELEVISE IN 8" CLAY TILE BY RR TRACKS TO FIND LAT 1 &amp; LAT 2 TILE CONNECTION BY RR TRACKS.</u>				
6. Attachments (total sheets attached <u>3</u> ):				

# Inspector's Project Diary (continued)

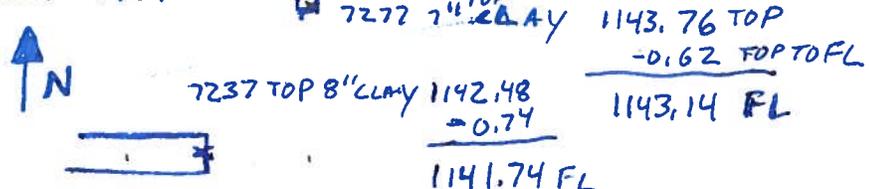
CGA PN: 6735 DD#9 H SURVEY      Report No.      Date: 10/21/2020  
 6735.1 DD#9 H

1. General Remarks and Work Accomplished (Continued):

- 10:20 A.M. PAUL LEFT SITE & OBSERVER CHECKED ON CREW LOCATING PRIVATE TILE BY TERRACES.
- 10:30 A.M. JEREMY LEFT SITE.
- 10:35 A.M. OBSERVER SET GPS BASE ON #4 3/4" IRON ROD 0.5' DOWN 353' ± NORTH OF E 17938 I AVE DRIVE 6.5' EAST OF ROAD EDGE.
- 10:35 A.M. CHRIS ON SITE TO STAKE PROPOSED TILE ALIGNMENT TO END OF JOB.
- 11:00 A.M. GPS BASE SETUP AND CHECKED INTO GPS #90 HARDIN COUNTY GPS MONUMENT #8024, 2000 HORIZONTAL & VERTICAL.
- 11:20 A.M. OBSERVER SHOT LOCATES & EXPOSED PRIVATE TILE NORTH OF TERRACE #1 TO TERRACE #2.
- 11:30 A.M. TO 12:00 P.M. CREW STOPPED FOR LUNCH.
- 12:00 P.M. CREW EXPOSED EXISTING PRIVATE TILE @ SOUTH END BEND, LITTLE CONFUSING ON WHAT WAS THERE.
- 12:50 P.M. CREW HAD WYE CONNECTION EXPOSED ON EAST END OF CONFUSING AREA.



- 12:55 P.M. CREW HEADED TO EXCAVATE FOR LAT #1 IN FIELD.
- 1:25 P.M. CREW HAD BOTH LAT 1 & LAT 2 TILE EXPOSED IN FIELD
- 1:30 P.M. OBSERVER SHOT EXPOSED LAT #1 & 2 TILE.



OBSERVER TALKED TO LEE & WILL USE 1141.54' FOR FL OR NEW 15" RCP OUTLET AT THIS LOCATION

7225 TOP 7" CLAY 1143.21 TOP  
 -0.62 TOP TO FL  
 1142.59 FL

# Inspector's Project Diary (continued)

CGA PN: 6735 DD9 H. SURVEY  
 6735.1 DD#9H

Report No. Date: 10/21/2020

1. General Remarks and Work Accomplished (Continued):

2:40 P.M. CREW WAS STRING OUT PIPE & SETTING UP TRENCH BOX, CREW ALSO BACKFILLED SOME OF EXCAVATED HOLES THAT WERE STILL OPEN.

2:45 P.M. OBSERVER WAS ADJUSTING ALIGNMENT TO HIT CREEK & MISS PRIVATE LATERALS.

FIGURED GRADE & STAKED UP TO STATION 2+00.

	PROPOSED FL		
	0+00	FL 1124.21	} 1.85%
GRADE BREAK	5+00	FL 1133.46	
		1139.09	} 0.704%
GRADE BREAK	13+00		
NEW 15" OUTLET FL @ STRUCTURE	25+91.79	FL 1141.54	} 0.19%

	HUB ELEV GPS#	PROPOSED FL TILE	CUT TO FL TILE
0+00	7281 1129.20	1124.21	C - 4.99'
1+00	7280 1130.50	1126.06	C - 4.44'
2+00	7279 1132.40	1127.91	C - 4.49'

6:00 P.M. CREW LEFT SITE AFTER LAYING OUT TILE.

6:45 P.M. OBSERVER LEFT AFTER ADJUSTING ALIGNMENT RESTAKING ALIGNMENT, ADJUSTING GRADES, STAKING UP TO STATION 2+00 & MARKING GRADES ON LATH.

PICTURE # 4679 IS LOOKING NORTH @ GPS# 7260  
STATION 3+99.5 38.9' LEFT OF PROPOSED TILE 10" CLAY  
PRIVATE TILE 4.3' DEEP (NORTH 1ST TERRACE)



PICTURE # 4680 IS LOOKING NORTH @ GPS# 7249 STATION 3+88.7  
67' L 8" SUPER PRIVATE TILE 4.4' DEEP (NORTH 1ST TERRACE)

PICTURE #4681 IS LOOKING SOUTH AT PRIVATE TILE  
 NEW  
 LOCATES & EXPOSED TILE HOLES SHOWING ALIGNMENT  
 THROUGH PRIVATE TILE SOUTH OF 1ST TERRACE  
 PROPOSED TILE LOCATION

2  
 ↓



WEST PRIVATE  
 TILE  
 LOCATE  
 FLAG 10" CAY  
 EAST  
 PRIVATE  
 TILE  
 LOCATE  
 FLAG

10/21/2020  
 12:11



WEST PRIVATE  
 TILE LOCATES  
 EAST PRIVATE  
 TILE  
 LOCATES

2  
 ↓

10/21/2020  
 12:12

PICTURE #4682 IS LOOKING SW SHOWING NEW TILE  
 ALIGNMENT GOING THROUGH PRIVATE TILE.

PICTURE# 4683 IS LOOKING SOUTH @ PROPOSED NEW TILE ALIGNMENT  
@ EXPOSED PRIVATE TILE HOLES SOUTH TERRACE #1



WEST PRIVATE  
TILE  
LOCATES  
SOUTH  
OF TERRACE  
#1

PICTURE# 4684 LOOKING SOUTH FROM 2ND TERRACE NORTH  
AT PRIVATE TILE LOCATES

PICTURE# 4685 SHOWING CLASS IV 15" RCP WILL BE USED FOR JOB.



PICTURE# 4686 SHOWING CLASS IV 15" RCP WILL BE USED FOR JOB

PICTURE # 4687 LOOK NORTH SHOWING CREW PLACED CHUNK PLASTIC TILE OVER HOLE IN TOP OF EXPOSED 8" PERF TILE @ GPS# 7249.



7274  
7" CLAY



7" CLAY 4.4' DEEP 7275  
PICTURE # 4688 IS LOOKING NE TOWARD MAIN TILE TIE IN SHOWING 7" CLAY TILE WITH CHUNK OF TILE BLOCKING DOWNSTREAM END.

PICTURE # 4689 IS LOOKING SOUTH AT LAT 1 TILE EXPOSED IN FIELD



7276 TOP 7" CLAY / 4.0' DEEP

N  
↓

7277 TOP 7" CLAY 4.10' DEEP



GPS # 7310 LOCATE LAT 1 TIE IN LOCATION

N  
↓

PICTURE # 4690 IS LOOKING SOUTH AT EXPOSED LAT #1 IN FIELD TO LOCATE TIE IN @ WEST RR ROW

PICTURE # 4691 IS LOOKING NE AT LATZ TILE EXPOSED  
LOOKING TOWARDS WEST RR ROW

7310 LATI TIE IN LOCATE



PICTURE # 4693 IS LOOKING UPSTREAM INSIDE 7" CLAY  
LATZ FROM GPS # 7275 SHOWING TILE CLEAN &  
IN GOOD SHAPE

PICTURE #4694 IS LOOKING DOWN STREAM INSIDE 7" CLAY  
TILE LAT#2 FROM GPS# 7274. SHOWING TILE CLEAN  
AND GOOD SHAPE.



PICTURE #4695 IS LOOKING SOUTH DOWNSTREAM  
INSIDE 7" CLAY<sup>LAT#1</sup> FROM GPS# 7276 TILE CLEAN AND IN GOOD  
SHAPE.

PICTURE #4696 IS LOOKING NORTH UPSTREAM INSIDE  
7" CLAY LAT #1 FROM GPS #7277 SHOWING TILE CLEAN  
& IN GOOD SHAPE



PICTURE #4697 IS LOOKING SE SHOWING NEW OUTLET  
ALIGNMENT WITH TREES GRUBBED OUT TO HIT & CREEK TO WEST  
& MISS OTHER OUTLET TILE.

PICTURE #4698 IS LOOKING EAST AT NEW ALIGNMENT  
STAKED & MISSES CMP OUTLETS FROM NORTH & HITS  
CREEK TO WEST



# Project Diary

Project: <u>HARDIN DD#9 UPPER MAIN TILE DIVERSION</u>			
CGA PN: <u>6735.1</u>	Days Charged: <u>2</u>	Report No. <u>3</u>	Proj. Mgr. <input checked="" type="checkbox"/> <u>LEE GALLETINIE</u>
Contractor: <u>GEHRKE INC.</u>		<u>THURSDAY</u> Date: <u>10/22/2020</u>	
Superintendent: <u>JUSTIN VAUGHN</u>	Weather Conditions:	Precip.: <u>"</u>	Temp. Hi: <u>°</u>
INSPECTOR:		Temp. Low: <u>°</u>	
Time Arrived: <u>N.A.</u>	Time Left: <u>N.A.</u>	Contractor:	Time Arrived: <u>N.A.</u>
		Time Left: <u>N.A.</u>	
1. General Remarks and Work Accomplished:			
<u>JUSTIN CALLED OBSERVER. AT 6:30 A.M. CREW NOT WORKING TODAY DUE TO WEATHER.</u>			
2. Changes or Extra Work Ordered:			
<u>/</u>			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

# Project Diary

Project: <u>MARION DD#9 UPPER MAIN TILE DIVERSION</u>			
CGA PN: <u>6735:1</u>	Days Charged:	Report No. <u>4</u>	Proj. Mgr. <input checked="" type="checkbox"/> <u>LEE</u>
Contractor: <u>GERRKE, INC</u>		Date: <u>10/23/2020</u>	<u>GALLENINE</u>
Superintendent: <u>JUSTIN VAUGHN</u>	Weather Conditions:	Precip.: <u>"</u>	Temp. Hi: <u>°</u>
			Temp. Low: <u>°</u>
INSPECTOR:		Contractor:	
Time Arrived: <u>N.A.</u>	Time Left: <u>N.A.</u>	Time Arrived: <u>N.A.</u>	Time Left: <u>N.A.</u>
1. General Remarks and Work Accomplished:			
<p><u>6:20 A.M. JUSTIN CALLED OBSERVER THAT CREW WILL NOT BE WORKING TODAY BUT ARE PLANNING ON WORKING AGAIN ON MONDAY.</u></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

# Project Diary (continued)

CGA PN:	Report No.	Date:
1. General Remarks and Work Accomplished (Continued):		

# Project Diary

Project: <b>HARDIN DD#9 UPPER MAIN TILE DIVERSION</b>			
CGA PN: <b>6735.1 6735 DD#9 H. SURVEY</b>	Days Charged: <b>MONDAY</b>	Report No.	Proj. Mgr. <input checked="" type="checkbox"/> <b>LEE CALLENTINE</b>
Contractor: <b>GEHRKE, INC</b>		Date: <b>10/26/2020</b>	
Superintendent: <b>JUSTIN VAUGHN</b>	Weather Conditions: <b>(LIGHT DUSTING SNOW NIGHT IN EARLY MORNING HOURS) PARTLY CLOUDY WITH LIGHT WINDS</b>	Precip.: <b>NOT MEASURABLE</b>	Temp. Hi: <b>LOW 30°</b>
INSPECTOR:	Contractor:		Temp. Low: <b>LOW 20°</b>
Time Arrived: <b>7:50</b>	Time Left: <b>6:00</b>	Time Arrived: <b>7:00</b>	Time Left: <b>5:20</b>
<p>1. General Remarks and Work Accomplished:</p> <p><b>7:50 A.M. OBSERVER ON SITE. CREW WAS GETTING LASER SETUP WITH 4 MAN CREW ON SITE 2 JOHN DEERE 3506 EXCAVATORS, JOHN DEERE 624L LOADER, JOHN DEERE 850J DOZER FOR EQUIPMENT TALKED TO JUSTIN ABOUT GRADE.</b></p> <p><b>8:00 A.M. CREW WAS JUST STARTING TO EXCAVATE FOR 18" CMP OUTLET @ CREEK. OBSERVER LEFT SITE TO SETUP GPS BASE ON GPS# 4 3/4" IRON ROD 0.3' ± DEEP (2.5' ± EAST OF EAST EDGE DEAD END I AVE (352.8' N OF DRIVE OF ACREAGE @ 17938 I AVE) OR 29.5' SOUTH OF 1ST PP WITH TRANSFORMER NORTH OF 17938 I AVE IN WEST SIDE OF F AVE ROW)</b></p> <p><b>8:45 A.M. CHECKED INTO GPS# 90 HARDIN COUNTY GPS MON 8024 GOOD HORIZONTAL POSITION WITH FTD. 0.03' TO +.04' VERTICAL POSITION (WITHIN REASON)</b></p> <p><b>8:50 A.M. CREW HAD 40' OF CMP IN PLACE AND STARTING TO SET 1ST 15" RCP. (SEE SHEET FOR GRADE CHECKS) CREW HAD 4" BEDDING ROCK UNDER CMP WITH 18" CMP BAND BETWEEN SECTIONS AND ROCK BEDDED TO SPRING LINE OF TILE.</b></p> <p><b>9:20 A.M. CREW APPLIED SEALANT AROUND SPIGOT END OF 15" RCP BEFORE INSTALLATION INTO 18" CMP. CREW IS USING SPOON BUCKET ON BOTTOM OF TRENCH WITH GOOD SOIL FOR TILE TO SIT IN. SEALING BOTTOM 2/3 OF TILE &amp; WRAPPING JOINT WITH FABRIC.</b></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
<p>4. Visitors to Site: <b>KEVIN VIERKANT AND HIS SON MIKE WERE ON SITE FROM 2:10 P.M. TO 2:30 P.M. THEY TOLD OBSERVER NOT TO PUT HICKEN BOTTOMS IN. IF IT NEEDS A HICKEN BOTTOM THEY WILL PUT A BURIED ONE WITH ROCK THEMSELVES. ALSO BROUGHT UP THAT DEPENDING ON HOW MANY LATERALS WE FIND THROUGH WET AREA WE MAY HAVE TO RUN A LATERAL THROUGH THAT WET AREA.</b></p>			
<p>5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:</p> <p><b>USLC ON SITE AROUND 12:15 TO LOCATE FIBER OPTIC CABLE IN EAST DITCH OF RAILROAD ROW. 12:50 P.M. USLC HAD LOCATES DONE &amp; LEFT SITE.</b></p>			
6. Attachments (total sheets attached <u>0</u> ):			

# Project Diary (continued)

CGA PN: 6735.1  
6735 DDQH SURVEY

Report No.

Date: 10/26/2020

1. General Remarks and Work Accomplished (Continued):

11:50 A.M. CREW STOPPED FOR LUNCH. OBSERVER SET 15' O/S HUBS. AT STATION 3+00, 3+95, 25+00, FIGURED GRADES AND MARKED CUTS ON LATH

12:30 P.M. CREW BACK ON SITE FROM LUNCH

1:00 P.M. CREW WAS CUTTING 15" RCP TILE FOR BEND AT GPS# 7316

1:10 P.M. OBSERVER SHOT LOCATE FOR WHERE LAT I TILE CONNECTED INTO 8" CLAY TILE GPS# 7315

1:45 P.M. CREW WAS DONE CUTTING ANGLE FOR TILE PIPE AND STARTED

LAYING TILE AGAIN.

2:40 P.M. JUSTIN WITH GEHRKES SAID THERE IS A TILE BLOWOUT SECTION IN EAST ROW OF OF RAILROAD WHERE TILE IS MISSING WHERE FIBER OPTIC LINE RAN THROUGH.

3:20 P.M. SHOT FIBER OPTIC LOCATES THAT WENT THROUGH 14" CLAY TILE, THAT HAS SECTION MISSING

4:35 P.M. CREW WAS DONE INSTALLING 15" RCP TILE FOR DAY AND GROUTED WIDE JOINTS ON TILE WITH PLUG HYDRAULIC CEMENT. @ GPS# 7307, #7315, #7295 TO #7298

5:30 P.M. SHOT TOP OF 14" CLAY TILE THAT IS EXPOSED

5:50 P.M. GPS# 7320 WITH SECTION MISSING EAST RR DITCH, SET NEW CONTROL POINT 3/4" IRON ROD 0.3' DEEP 2.0' NORTH OF 2ND WOOD FENCE POST EAST. OF GAVE IN FENCE LINE E-W 808.5' NORTH OF HWY

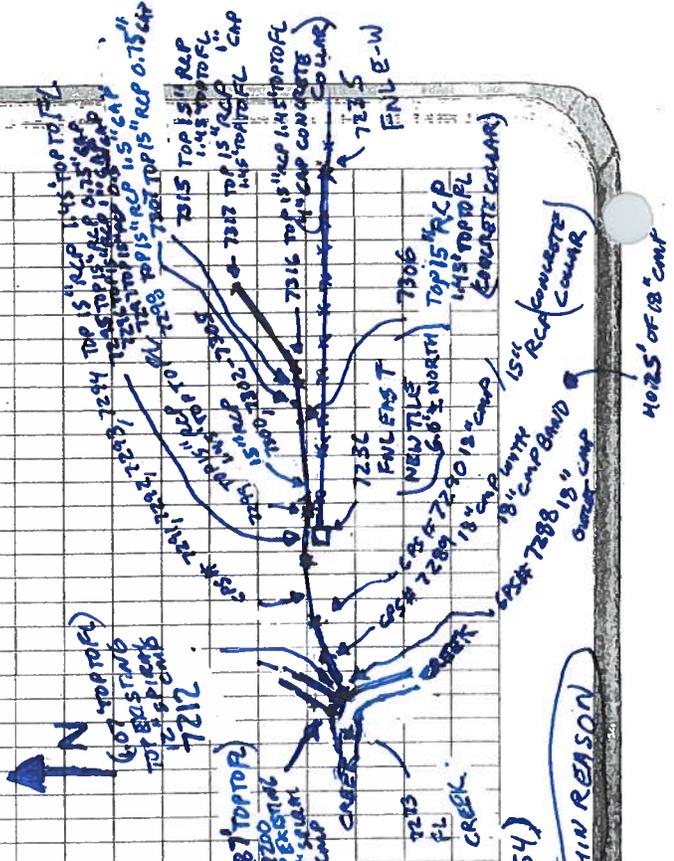
6:00 P.M. CREW LEFT SITE AND OBSERVER TORE DOWN GPS AND LEFT SITE.



10/26/2020 ~~1200~~ GRADE CHECKS

9:10 A.M. GPS # 7288 TOP 18" CAP OUTLET	1125.77	TO 18" CAP	PLAN FL 1124.21	
	-1.51	TOP TO FL	(.05' HIGH) (WITHIN REASON)	
	1124.26	FL 18" CAP OUTLET		
10:10 A.M. GPS # 7290 TOP 18" CAP	1126.49	TOP 18" CAP	PLAN FL = 1124.21 + (.0185 X 40.26)	
	-1.51	TOP TO FL	= 1124.95	
	1124.98	FL 18" CAP	(.03' HIGH) (WITHIN REASON)	
10:50 A.M. GPS # 7291 TOP 15" RCP	1126.52	TOP TO FL	PLAN FL = 1124.21 + (.0185 X 40.33)	
	-1.45	TOP TO FL	= 1124.96	
	1125.07	FL 15" RCP	TOP TO FL ← AVERAGE TOP TO FL FOR 15" RCP	
	1126.78	TOP TO FL	(LITTLE HIGH)	
	-1.45	TOP TO FL	PLAN FL = 1124.21 + (.0185 X 63.3)	
	1125.33	FL 15" RCP	= 1125.38	
	1127.65	TOP TO FL	.05' LOW (WITHIN REASON)	
	-1.45	TOP TO FL		
11:15 A.M. GPS # 7300 TOP 15" RCP	1126.20	FL 15" RCP	PLAN FL = 1124.21 + (.0185 X 11.78)	
	1128.66	TOP TO FL	= 1126.28	
	-1.45	TOP TO FL	= .08' LOW (STARTING TO GET LOW)	
	1127.75	TOP TO FL	PLAN FL = 1124.21 + (.0185 X 159.88)	
	-1.45	TOP TO FL	= 1127.17	
	1127.21	FL 15" RCP	(.04' HIGH) (LITTLE HIGH WITHIN REASON)	
4:16 P.M. GPS # 7316 TOP 15" RCP	1128.90	TOP TO FL	PLAN FL = 1124.21 + (.0185 X 174.65)	
	-1.45	TOP TO FL	= 1127.44	
	1127.45	FL 15" RCP	.01' LOW (WITHIN REASON)	
4:28 GPS # 7317 TOP 15" RCP	1129.90	TOP TO FL	PLAN FL = 1124.21 + (.0185 X 228.54)	
	-1.45	TOP TO FL	= 1128.44	
	1128.45	FL 15" RCP	.01' LOW WITHIN REASON	

NOTE: JOINTS 7295 (0.15" CAP), 7296 (1" CAP), 7297 (0.5" CAP), 7298 (1.5" CAP), 7307 (0.75" CAP), 7315 (1" CAP) THESE JOINTS WERE PLASTERED WITH PLUG HYDRANULIC CEMENT CONCRETE COLLAR 7290, 7306, 7316



40.25' OF 18" CAP

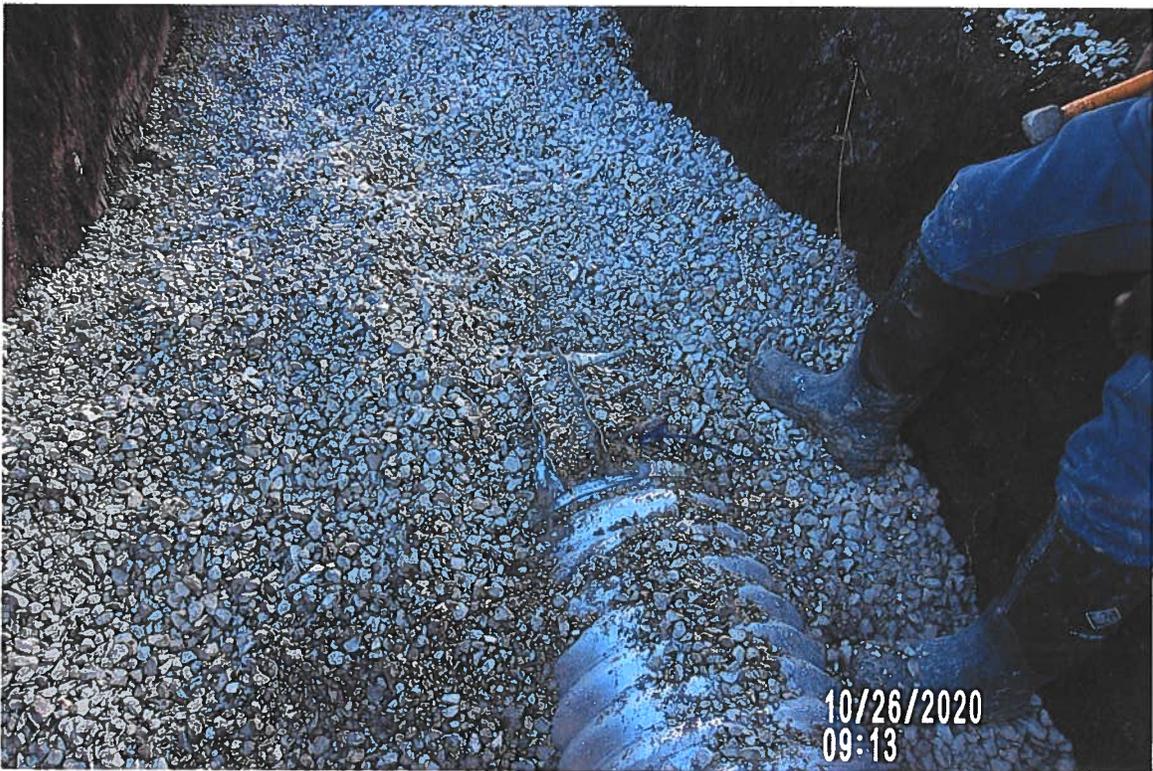
PICTURE# 4699 IS LOOKING NE AT 18" CMP OUTLET  
WITH BEDDING ROCK 4" BELOW CMP AND UP TO HAUNCH  
OF TILE



GPS# 7298

TOP 18"  
CMP OUTLET  
1.51 TOP TO FL

10/26/2020  
09:12



GPS# 7299

TOP 18"  
CMP  
METAL  
BAND

10/26/2020  
09:13

PICTURE# 4700 IS LOOKING NE SHOWING 18" CMP BAND BETWEEN  
THE 2 FULL SECTIONS OF 18" CMP TILE

PICTURE #4701 IS LOOKING NE SHOWING CREW SEALED  
SPIGOT END OF 15" RCP BEFORE INSTALLING IT INTO  
18" CMP TILE



LPSH 7290  
TOP 18" CMP  
@ 15" RCP

10/26/2020  
09:24



10/26/2020  
09:27

PICTURE # 4702 IS LOOKING NE SHOWING CREW USING A  
SPOON BUCKET TO LEAVE A HOLE UP TO HATCH OF  
TILE FOR IT TO SIT IN

PICTURE# 4703 IS LOOKING WEST FROM GPS# 7298  
SHOWING WIDER THAN NORMAL JOINTS THAT NEED  
SEALED.



PICTURE# 4704 IS LOOKING AT SPIGOT END OF 15" RCP WITH  
SEALANT PLACED AROUND IT BEFORE IT IS PUT IN PLACE

PICTURE # 4705 IS LOOKING WEST SHOWING SPOONED BUCKET TROUGH IN BOTTOM OF DITCH FOR TILE TO SET IN WITH JOINTS WRAPPED WITH FABBRIL & STILL SEALING JOINTS



PICTURE # 4706

LATERAL #1 CONNECTION TO 8" CLAY MAIN GPS# 7310

IS LOOKING NW SHOWING LOCATION WHERE LAT 1 & MAIN MAKE CONNECTION 2.0' INTO RAILROAD ROW

PICTURE # 4707 IS LOOKING NORTH SHOWING LATERAL #1  
TIE IN CONNECTION INTO 8" CLAY MAIN 2.0' INTO RAILROAD  
ROW

↑  
N



↑  
N



SOIL IS  
STILL  
IN GOOD  
CONDITION

GPS# 7316

TOP 15" RCP  
@ BEWD

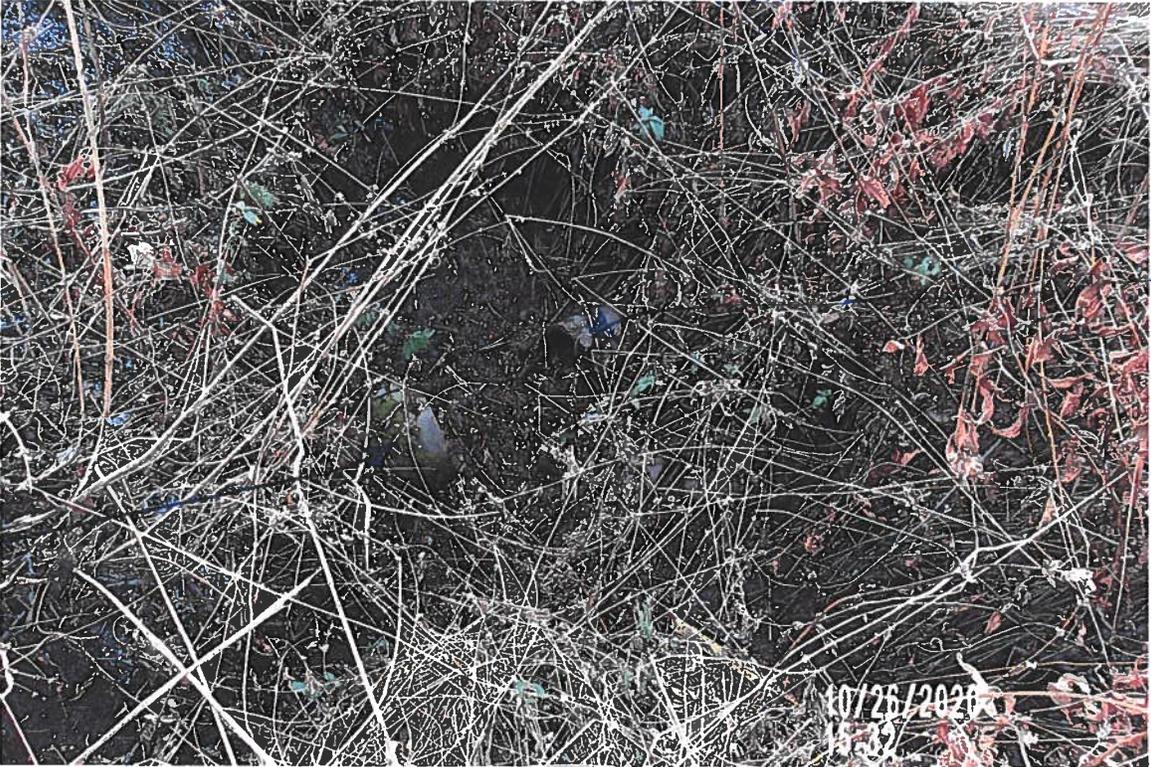
PICTURE # 4710 IS LOOKING NE SHOWING 15" RCP TILE CUT FOR  
BEND & CREW USING SPOONED BUCKET TO MAKE  
TROUGH IN BOTTOM OF TRENCH FOR TILE TO SIT IN;

PICTURE# 4711 EAST RR DITCH WITH SECTION OF 14" CLAY MISSING. USLC MARKED CENTURY LINK FIBER OPTIC CABLE. GPS# 7311 FIBER OPTIC 14" LOCATE GPS# 7312 CLAY TILE SECTION MISSING



↙  
N

GPS# 7313 FIBEROPTIC LOCATE  
CENTURY LINK LOCATE GOING THROUGH MISSING SECTION



GPS# 7319  
TOP 14"  
CLAY

GPS# 7318  
TOP 14" CLAY  
↙  
N

PICTURE# 4712 LOOKING SW AT 14" CLAY TILE SECTION MISSING WHERE CENTURY LINK FIBER OPTIC CABLE LOCATE GOES THROUGH

PICTURE#4713 IS LOOKING AT 15" RCP JOINT CONNECTION  
AT GPS# 7316 BEND



GPS# 7316  
TOP 15"  
RCP  
TILE  
@ BEND



PICTURE#4714 IS LOOKING NE SHOWING 15" RCP TILE  
IN PLACE - SITING IN TROUGH UP TO HAUNCH WITH FABRIC OVER JOINT  
FROM BEND AT GPS# 7316

↑  
N

PICTURE # 4715 IS LOOKING SW SHOWING 15" RCP END  
OF TILE FOR DAY VISITING IN TROUGH FROM SPOON  
BUCKET WITH TRENCH BACK FILLED ABOVE TILE.



N  
↓

CPS# 7317



N  
↓

PICTURE # 4717 IS LOOKING SE SHOWING WIDE JOINTS  
ON 15" RCP GROUTED WITH PLUG HYDRAULIC CEMENT  
FROM GPS # 7295 TO GPS # 7298.

PICTURE# 4718 CREW USED THIS TO GROUT WIDE JOINTS ON 15" RCP TILE.



PICTURE# 4719 IS LOOKING EAST SHOWING TILE WITH JOINTS WRAPPED & SITING IN TROUGH FROM SPOON BUCKET EAST OF GPS # 7298

PICTURE # 4720 IS LOOKING WEST FROM GPS # 7298  
SHOWING TILE SITING IN SPOON BUCKET TROUGH WITH JOINTS  
WRAPPED WITH FABRIC.



PICTURE # 4721 IS LOOKING SW SHOWING 15" RCP TILE  
SITING IN TROUGH FROM SPOON BUCKET OUT TO 18" CMP OUTLET

# Project Diary

Project: <b>HARDIN DD #9 UPPER MAIN TILE DIVERSION</b>			
CGA PN: <b>6735.1</b> <b>6735 DD 9 SURVEY</b>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/> <b>LEE CALLENTINE</b>
Contractor: <b>GEHRKE, INC</b>	<b>TUESDAY</b>	Date: <b>10/27/2020</b>	
Superintendent: <b>JUSTIN VAUGHN</b>	Weather Conditions: <b>SUNNY WITH LIGHT WINDS</b>	Precip.: <b>NONE "</b>	Temp. Hi: <b>LOW 40°</b> Temp. Low: <b>UPPER 10°</b>
INSPECTOR: Time Arrived: <b>7:50</b>	Time Left: <b>6:00</b>	Contractor: Time Arrived: <b>7:00</b>	Time Left: <b>6:00</b>
<p>1. General Remarks and Work Accomplished:</p> <p><b>7:50 A.M. OBSERVER ARRIVED ON SITE AND SET GPS BASE ON GPS # 7320 3/4" IRON ROD 0.37' DEEP 2.0' NORTH OF 2ND WPP EAST OF 6 AVENUE IN FENCE LINE E-W 808.5' NORTH OF CO HWY D-25.</b></p> <p><b>8:15 A.M. CHECKED INTO GPS # 90 HARDIN COUNTY GPS MON 8024 6000 HORIZONTAL &amp; 6000 VERTICAL.</b></p> <p><b>8:20 A.M. OBSERVER ON SITE WITH 3 MAN CREW WITH JOHN DEERE 3506 &amp; 3500 LC EXCAVATOR, JOHN DEERE 624L LOADER, &amp; JOHN DEERE <sup>850T</sup> DOZER ON SITE FOR EQUIPMENT CREW INSTALLING 15" RC TILE. CREW STILL USING GRADE LASER</b></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

# Project Diary

Project: <u>Hardin County DP #9</u>																		
CGA PN: <u>6735.1</u>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>															
Contractor: <u>Gehrke Construction</u>		Date: <u>10-27-20</u>	<u>Lee G.</u>															
Superintendent:	Weather Conditions:	Precip.: "	Temp. Hi: ° Temp. Low: °															
INSPECTOR: Time Arrived: <u>7:50 a.m.</u> Time Left:		Contractor: Time Arrived: Time Left:																
<p>1. General Remarks and Work Accomplished:</p> <p>7:50 a.m. = set up GPS on CPT # 7320              8:20 a.m. = Back at job site after checking into Pt # 90 (good).              9:12 a.m. = Talked to Project manager about straightening tile route per contractors request. P.M. okayed this.              10:20 a.m. = Grade check. Pt # 7326 <math>F_h</math> 15" RCP = 1128.83 Plan <math>F_h</math> = 1128.88              10:55 a.m. = Concrete arrived on-site for concrete collar station = 2+53              3:30 p.m. = Crew was done laying pipe for day.              Grade check's</p> <table style="width: 100%; border: none;"> <tr> <td># 7335 = <math>F_h</math> 15" RCP = 1129.78</td> <td>Plan <math>F_h</math> = 1129.92</td> <td>station = 3+09</td> </tr> <tr> <td># 7332 = <math>F_h</math> 15" RCP = 1129.59</td> <td>Plan <math>F_h</math> = 1129.63</td> <td>station = 2+93</td> </tr> <tr> <td># 7343 = <math>F_h</math> 15" RCP = 1130.49</td> <td>Plan <math>F_h</math> = 1130.51</td> <td>station = 3+41</td> </tr> <tr> <td># 7349 = <math>F_h</math> 15" RCP = 1131.30</td> <td>Plan <math>F_h</math> = 1131.41</td> <td>station = 3+89</td> </tr> <tr> <td># 7352 = <math>F_h</math> 15" RCP = 1131.58</td> <td>Plan <math>F_h</math> = 1131.70</td> <td>station = 4+05</td> </tr> </table>				# 7335 = $F_h$ 15" RCP = 1129.78	Plan $F_h$ = 1129.92	station = 3+09	# 7332 = $F_h$ 15" RCP = 1129.59	Plan $F_h$ = 1129.63	station = 2+93	# 7343 = $F_h$ 15" RCP = 1130.49	Plan $F_h$ = 1130.51	station = 3+41	# 7349 = $F_h$ 15" RCP = 1131.30	Plan $F_h$ = 1131.41	station = 3+89	# 7352 = $F_h$ 15" RCP = 1131.58	Plan $F_h$ = 1131.70	station = 4+05
# 7335 = $F_h$ 15" RCP = 1129.78	Plan $F_h$ = 1129.92	station = 3+09																
# 7332 = $F_h$ 15" RCP = 1129.59	Plan $F_h$ = 1129.63	station = 2+93																
# 7343 = $F_h$ 15" RCP = 1130.49	Plan $F_h$ = 1130.51	station = 3+41																
# 7349 = $F_h$ 15" RCP = 1131.30	Plan $F_h$ = 1131.41	station = 3+89																
# 7352 = $F_h$ 15" RCP = 1131.58	Plan $F_h$ = 1131.70	station = 4+05																
2. Changes or Extra Work Ordered:																		
3. Test Samples Taken:																		
4. Visitors to Site:																		
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:																		
6. Attachments (total sheets attached <u>0</u> ):																		

PICTURE# 4722



PICTURE# 4723

PICTURE #4724



PICTURE #4725

PICTURE# 4726



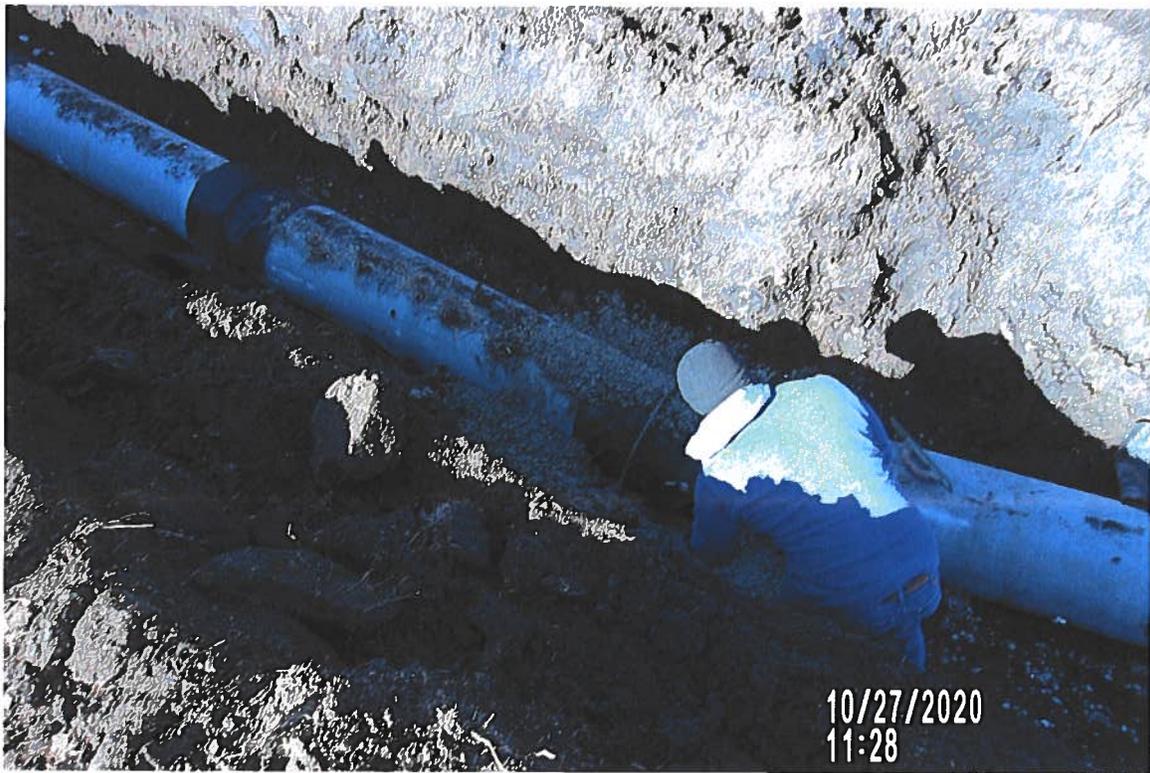
PICTURE# 4727

PICTURE# 4728



PICTURE# 4729

PICTURE # 4731



PICTURE # 4732

PICTURE# 4733



PICTURE# 4734

PICTURE #4735



PICTURE #4736

PICTURE # 4737



PICTURE # 4738

PICTURE # 4740

E



w



PICTURE # 4741

PICTURE# 4742



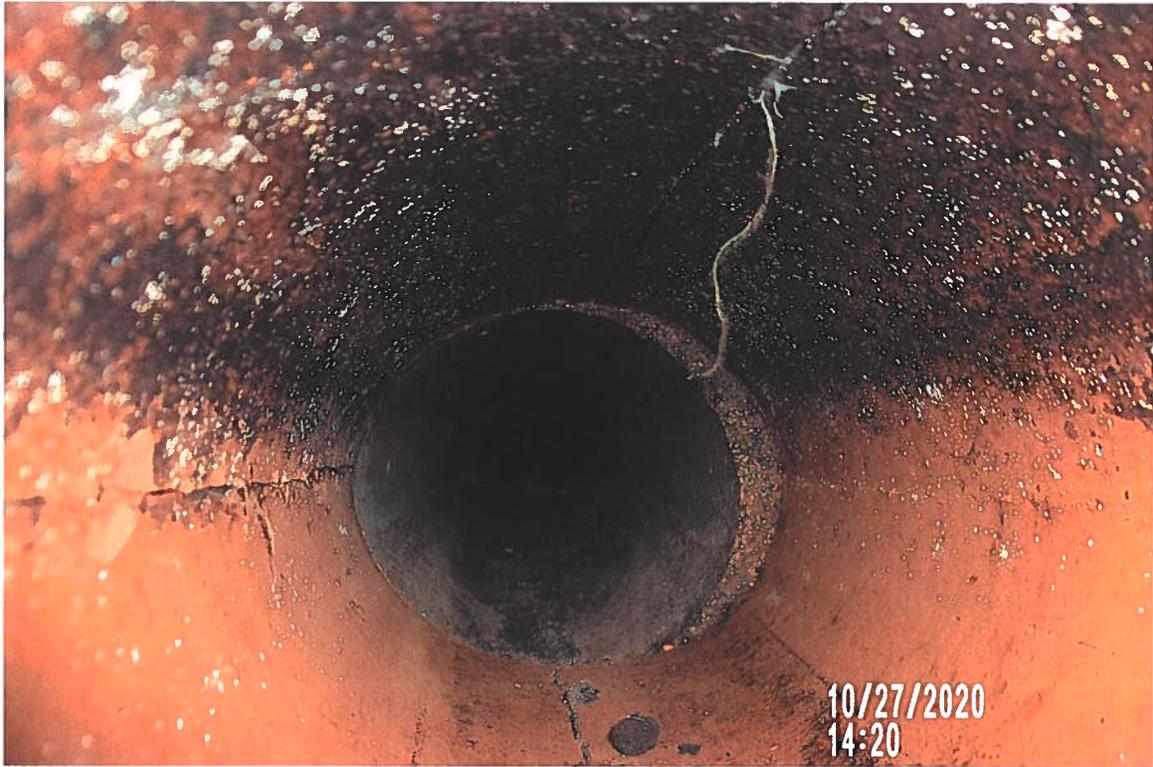
PICTURE#4743

PICTURE# 4744



PICTURE 4746

PICTURE # 4747



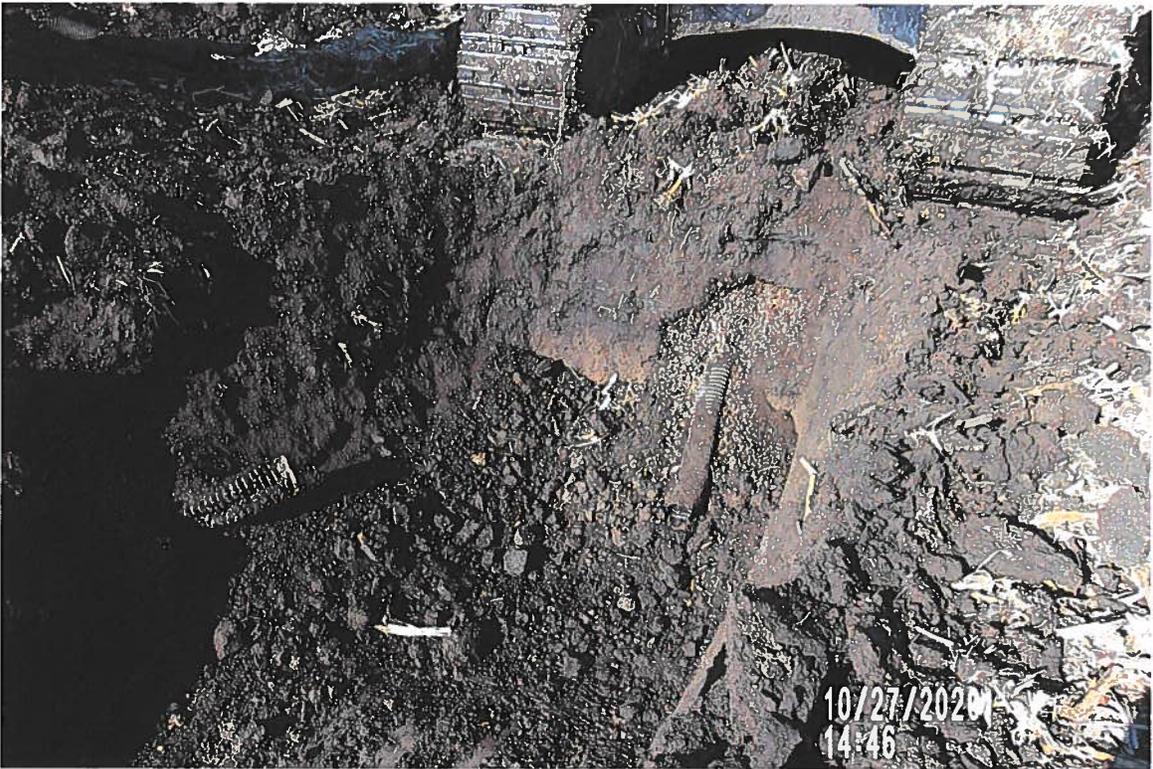
W SIDE



E SIDE

PICTURE # 4748

PICTURE# 4749



PICTURE# 4750

PICTURE # 4751



PICTURE # 4752

PICTURE # 4753



PICTURE # 4754

PICTURE #4756



PICTURE 4757

PICTURE#4758



PICTURE#4759

# Project Diary

Project: <u>Hardin County PD # 9</u>			
CGA PN: <u>6735.1</u>		Days Charged:	Report No.
Contractor: <u>Gehrke Construction</u>		Date: <u>10-23-20</u>	Proj. Mgr. <input checked="" type="checkbox"/> <u>Lee G.</u>
Superintendent: <u>Justin Vaughn</u>		Weather Conditions: <u>Sunny</u>	Precip.: <u>- "</u>
INSPECTOR:		Temp. Hi: <u>°</u>	
Time Arrived: <u>8:00</u>		Temp. Low: <u>°</u>	
Time Left: <u>7:00 p.m.</u>		Contractor:	
		Time Arrived:	
		Time Left: <u>6:00 p.m.</u>	
1. General Remarks and Work Accomplished:			
<p>8:00 a.m. = Set up G.P.S on CPT # 7320 and checked into GPS mon. # 90. (good)</p> <p>8:25 a.m. = Returned to job site, crew was laying pipe.</p> <p>Grade check # 7355 <math>F_H = 1133.23</math> 0.10 low per plan grade 1.85'</p> <p>9:40 a.m. = Grade check # 7356 = <math>F_H = 1133.25</math> 0.22' low per plan grade = 1.85'</p> <p>Foremen inquired if they could connect 8" Dual wall to 15" RCP w/out inserta Tee's. Construction observer told them no.</p> <p>10:20 A.M. = Jim U.H. was onsite to familiarize himself with project.</p> <p>10:30 a.m. = Crew bent spoon on bucket of Excavator.</p> <p>Grade check = # 7357 <math>F_H = 1133.64</math> 0.16' Low per plan grade = 1.85'</p> <p>11:10 a.m. = Jim U.H. left job site.</p> <p>Crew was working on connecting 6" concrete tile # 7365</p> <p>also connected a 5" clay tile # 7359</p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
<p>10:20 a.m. = Jim U.H.</p> <p>12:50 p.m. = Jeremy G. on site</p>			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

# Inspector's Project Diary (continued)

CGA PN: 6735.1

Report  
No.

Date: 10-28-20

1. General Remarks and Work Accomplished (Continued):

- 1:50 p.m. = Crew began laying tile again.
- 2:35 p.m. = Grade check # 7370  $F_h = 1134.12$  0.13 low per plan grade 0.78
- 3:47 p.m. = Grade check # 7374  $F_h = 1134.60$  0.10 low per plan grade.
- 4:20 p.m. = Crew was done laying Pipe for day.
- Grade check # 7378  $F_h = 1134.83$  0.21 low per plan grade.
- 6:00 p.m. = C.O. staked offset hubs to 13+00.

PICTURE # 4760



PICTURE # 4761

PICTURE# 4762



PICTURE# 4763

PICTURE # 4764



PICTURE # 4765

PICTURE# 4766



PICTURE# 4767

PICTURE # 4768



PICTURE# 4769

PICTURE# 4770



PICTURE# 4771

PICTURE# 4772



PICTURE# 4773

PICTURE # 4774



PICTURE # 4775

PICTURE # 4776



PICTURE # 4777

PICTURE #4778



PICTURE #4779

PICTURE# 4780



PICTURE# 4781

PICTURE# 4782



PICTURE # 4783

PICTURE # 4784



PICTURE # 4785

PICTURE # 4786



PICTURE # 4787

PICTURE # 4788



PICTURE # 4789

PICTURE # 4790



PICTURE # 4791

# Project Diary

Project: <u>Hardin County DD# 9</u>		Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
CGA PN: <u>6735.1</u>			Date: <u>10-29-20</u>	<u>Lee G.</u>
Contractor: <u>Gehrke Construction</u>		Weather Conditions:	Precip.:	Temp. Hi: <u>36</u> °
Superintendent: <u>Justin Vaughn</u>		<u>Cloudy - Windy</u>	"	Temp. Low: °
INSPECTOR:		Contractor:		
Time Arrived: <u>8:13 a.m.</u> Time Left: <u>4:50 p.m.</u>		Time Arrived: <u>7:30 a.m.</u> Time Left:		
1. General Remarks and Work Accomplished:				
<p>8:13 a.m. = Set up GPS on CPT # 7320 and checked into # 90 (good). <span style="float: right;">G.79 gmb</span></p> <p>8:50 a.m. = Returned to job site. shot top <del>of</del> <sup># 7387</sup> 15" RCP. 0.16' low per plans.</p> <p>9:20 a.m. = Crew hit a 10" VCP tile while excavating for new main. Crew will repair 10" VCP with dual wall HDPE and concrete collars at a later date.</p> <p># 7383 and # 7384 are top of 10" VCP. 10" VCP will not be connected to new 15" RCP as this turns before crossing 10" VCP.</p> <p>9:40 a.m. = at station 8+05, crew will cut pipe at a angle to fit bend as staked. Crew will collar bend.</p> <p>10:12 a.m. = shot top of 4" plastic tile # 7385.</p> <p>10:13 a.m. = Crew installed angled section of 15" RCP for bend.</p> <p>10:36 a.m. = shot top pipe at Bend # 7368 station = 8+05.6          shot top pipe 1st joint post bend # 7387 station = 8+12.7</p>				
2. Changes or Extra Work Ordered:				
3. Test Samples Taken:				
4. Visitors to Site:				
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:				
6. Attachments (total sheets attached <u>0</u> ):				

# Project Diary (continued)

CGA PN: 6735.1

Report  
No.

Date: 10-29-20

1. General Remarks and Work Accomplished (Continued):

- # 7386 grade check, 0.10 low per plan grade of 0.7<sup>ft</sup>.  
12:05 p.m. # 7388 grade check, 0.15 low per plan grade of 0.7<sup>ft</sup>.  
1:30 p.m. # 7390 grade check, 0.00 per plan grade of 0.7<sup>ft</sup>.  
shot top of 4" plastic tile # 7389 ( # 7385 & # 7389 same tile ).  
1:50 p.m. # 7391 grade check, 0.12 low per plan grade of 0.7<sup>ft</sup>.  
2:30 p.m. # 7392 grade check, 0.25 low (Possible bad shot).  
2:57 p.m. # 7393 grade check 0.15 low per plan grade of 0.7<sup>ft</sup>.  
shot top of 5" plastic tile # 7394 and # 7395  
# 7396 top of 15" RCP past bend.  
4:25 pm # 7397 grade check = 0.18 Low per plan grade of 0.7<sup>ft</sup>.  
4:27 pm # 7398 grade check = 0.17 Low per plan

Pipe laid today Beginning Pt # 7378 station 7+25.5  
Ending Pt # 7398 station 11+01.1

Total # = 375.6'



Laying last section of pipe before bench

2020/10/29  
10:02

Crew preparing to install bend in 15" rcp

2020/10/29

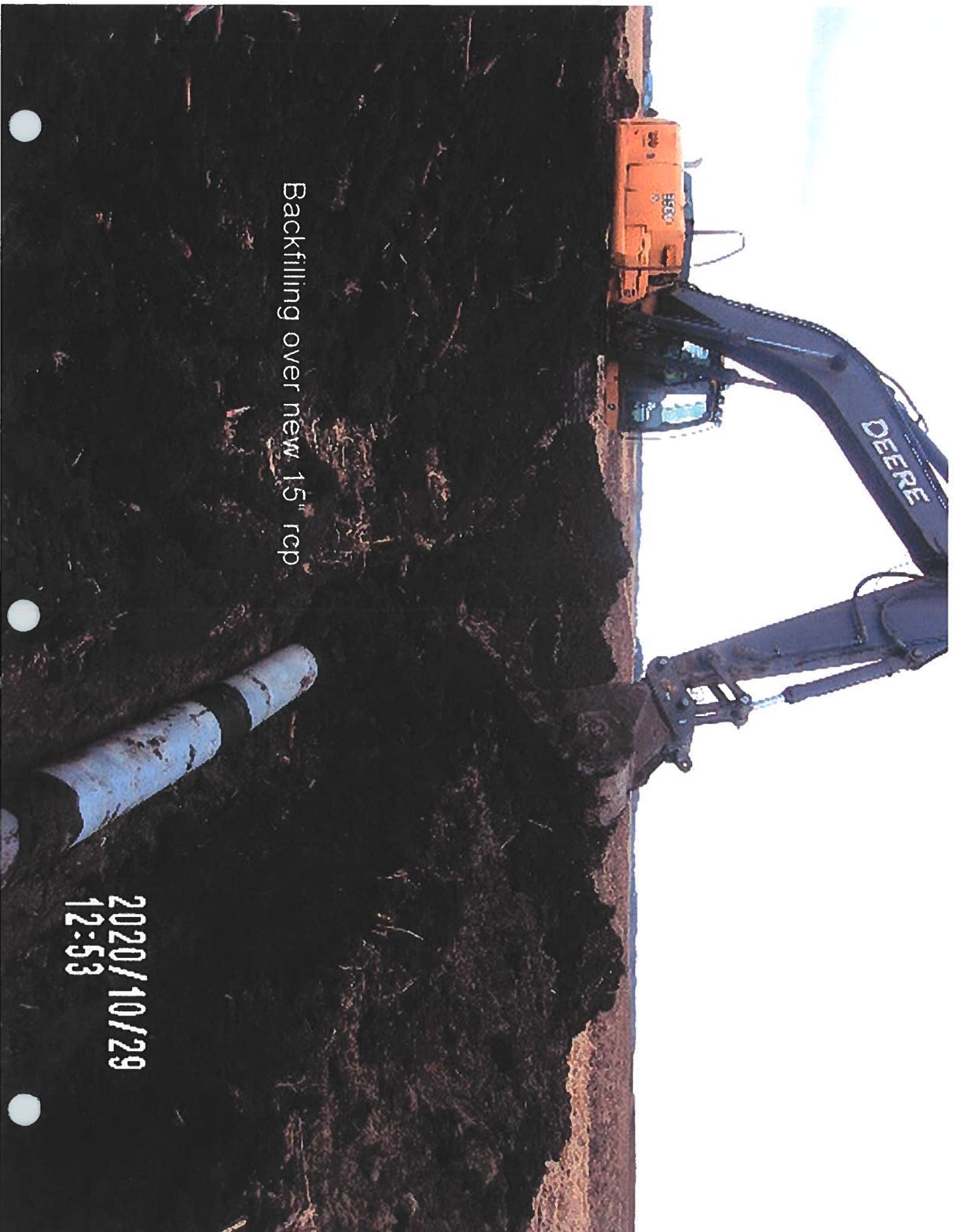
10:02



Bend cut and installed in 15" rcp

2020/10/29  
10:37





Backfilling over new 15" rcp

2020/10/29  
12:53



Pulling trench box to install 15" rcp

2020/10/29  
14:44

Bend fitted and installed needs concrete collar



2020/10/29  
15:31

Installing pipe past bend

2020/10/29  
16:26



# Inspector's Project Diary

Project: <i>Hardin County DD # 9</i>			
CGA PN: <i>6735.1</i>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
Contractor: <i>Gehrke Construction</i>		Date: <i>10-30-20</i>	<i>Lee G.</i>
Superintendent: <i>Justin Vaughn</i>	Weather Conditions:	Precip.: "	Temp. Hi: ° Temp. Low: °
INSPECTOR: Time Arrived: <i>7:50 a.m.</i> Time Left: <i>6:30 p.m.</i>	Contractor: Time Arrived:                      Time Left: <i>5:00 p.m.</i>		
<p>1. General Remarks and Work Accomplished:</p> <p><i>7:50 a.m. = Set up GPS on CPT # 7320 and checked into # 90 (good).</i>  <i>8:15 a.m. = Returned to job site. 4 man crew installing 15" RCP,</i>  <i>grade check # 7399 R<sub>h</sub> 15" rcp = 1127.85 Plan R<sub>h</sub> = 1138.11 station = 11 + 65</i>  <i>crew is getting into clay/sand mixture. Dirt at pipe haunch still standing up.</i>  <i>grade check # 7400 R<sub>h</sub> 15" rcp = 1138.10 Plan R<sub>h</sub> = 1138.34 station = 11 + 97</i>  <i>grade check # 7402 R<sub>h</sub> 15" rcp = 1138.48 Plan R<sub>h</sub> = 1138.73 station = 12 + 53</i>  <i>11:35 a.m. = concrete for collars arrived. Poured collars on 15" rcp at</i>  <i>points # 7386 and # 7393 and collars on 10" tile</i>  <i>12:00 p.m. = Done with concrete collars.</i>  <i>1:15 p.m. = Foreman inquired if crew could tar all of pipe and place fabric on top only.</i>  <i>Contacted Project Manager and he wants fabric all the way around pipe and tar</i>  <i>on bottom 1/2 of pipe.</i>  <i>grade check = # 7406 R<sub>h</sub> 15" rcp = 1138.74 Plan R<sub>h</sub> = 1139.01 station = 12 + 94</i></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>  0  </u> ):			

# Inspector's Project Diary (continued)

Report  
No.

Date: 10-30-20

CGA PN: 6735.1

1. General Remarks and Work Accomplished (Continued):

Grade check = # 7412  $\overline{R}$  15" RCP = 1139.4 Plan  $\overline{R}$  = 1139.19 Station = 13+66

3:15 p.m. = Jeremy G. on-site, discussed rcp cap at outlet and if he should have

3:22 p.m. = Crew moved trench box. Lat 1, Lat 2, and man into structure

Grade check = # 7413  $\overline{R}$  15" RCP = 1139.45 Plan  $\overline{R}$  = 1139.44 Station = 13+89.

4:40 p.m. = Crew laid last section of 15" rcp for day.

grade check = # 7418  $\overline{R}$  15" rcp = 1139.49 Plan  $\overline{R}$  = 1139.52 Station = 14+38

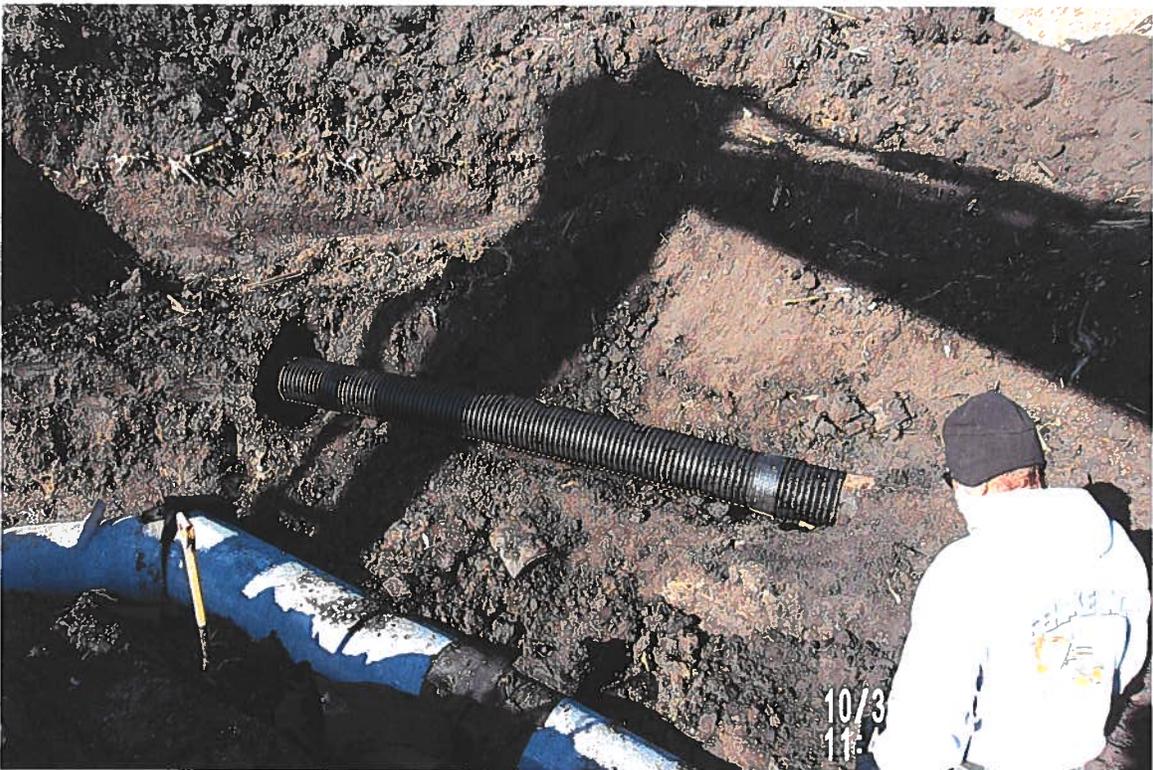
staked station 19+00 and 20+00

PICTURE# 4805



PICTURE# 4806

PICTURE# 4807



PICTURE# 4808

PICTURE # 4809



PICTURE # 4810

PICTURE #4813



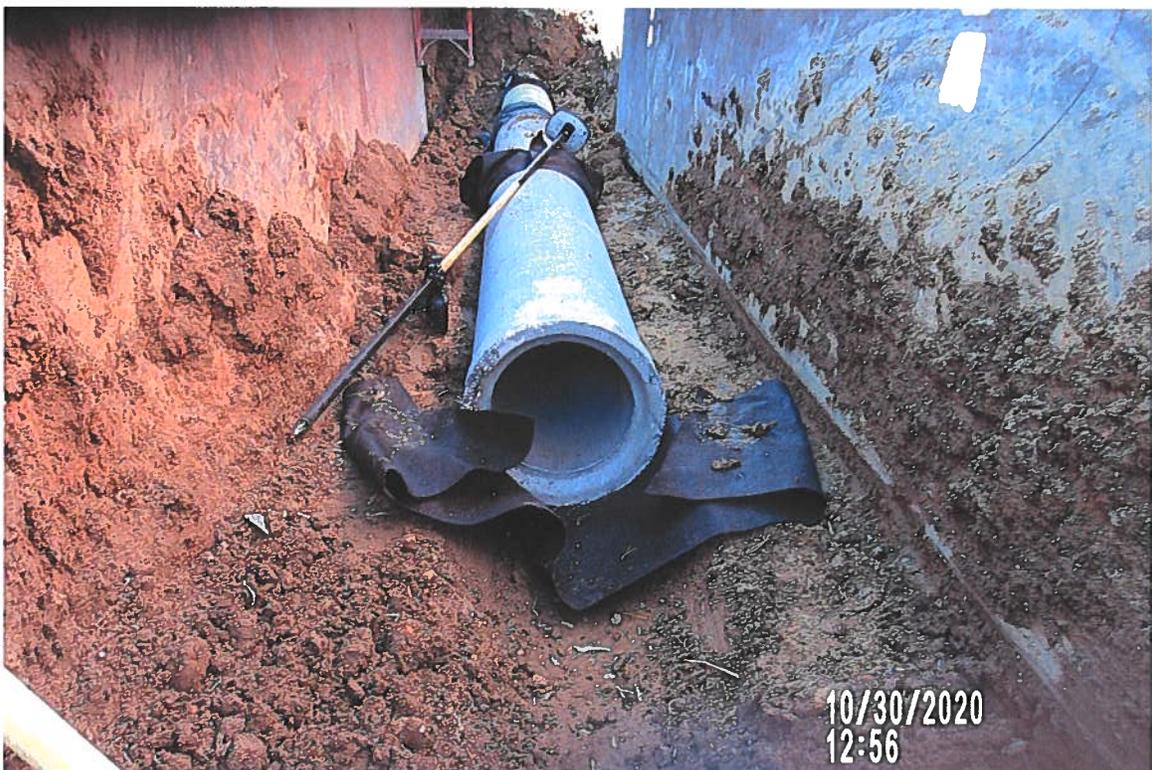
PICTURE# 4814

PICTURE# 4815



PICTURE# 4816

PICTURE# 4817



PICTURE# 4819

PICTURE# 4820



PICTURE # 4821

PICTURE#4822



PICTURE#4823

PICTURE # 4824



PICTURE # 4826

PICTURE# 4827



PICTURE# 4804

ACCOUNTING OFFICE  
 1710 EAST MAIN STREET  
 MARSHALLTOWN, IOWA 50158  
 PHONE: (641) 752-3696  
 FAX: (641) 752-8644



**CONCRETE INC.**

SOLD TO:

GEHRKE INC

B AVE  
 ALDEN

TIME	FORMULA	LOAD SIZE	YARDS ORDERED		DRIVER/TRUCK	P.O. NUMBER	PLANT/TRANSACTION#
10:38:00	M40	4.00	4.00	OPEN	49I		08
DATE		LOAD #	YARDS DEL.	BATCH #	WATER TRIM	SLUMP	TICKET NUMBER
10/30/20		1	4.00	28082	0.00	4.00 in	27646

**WARNING**  
**IRRITATING TO THE SKIN AND EYES**  
 Contains Portland Cement. Wear Rubber Boots and Gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid Contact With Eyes and Prolonged Contact With Skin. In Case of Contact With Skin or Eyes, Flush Thoroughly With Water. If Irritation Persists, Get Medical Attention. KEEP CHILDREN AWAY. See back for additional warning information.

CONCRETE is a PERISHABLE COMMODITY and BECOMES the PROPERTY of the PURCHASER UPON LEAVING the PLANT. ANY CHANGES OR CANCELLATION of ORIGINAL INSTRUCTIONS MUST be TELEPHONED to the OFFICE BEFORE LOADING STARTS.  
 The undersigned promises to pay all costs, including reasonable attorney's fees, incurred in collecting any sums owed.  
 All accounts not paid within 30 days of delivery will bear interest at the rate of 18% per annum. Not Responsible for Reactive Aggregate or Color Quality. No Claim Allowed Unless Made at Time Material is Delivered.  
 A \$15.00 Service Charge and Loss of the Cash Discount will be Collected on all Returned Checks. Excess Delay Time Charged at \$70.00/HR.

**PROPERTY DAMAGE RELEASE**  
 (TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)  
 Dear Customer: The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desired. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and this supplier from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.  
 SIGNED  
 X

Excessive Water is Detrimental to Concrete Performance  
 H<sub>2</sub>O Added By Request/Authorized By  
 \_\_\_\_\_ GAL X \_\_\_\_\_

WEIGHMASTER

NOTICE MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY:  
 X

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
4.00	M40	TRUCKING		
0.00		TRUCK INCHARGE (NONTAXABLE)		

RETURNED TO PLANT	LEFT JOB	FINISH UNLOADING	DELAY EXPLANATION/CYLINDER TEST TAKEN	TIME ALLOWED
			1. JOB NOT READY 2. SLOW POUR OR PUMP 3. TRUCK AHEAD ON JOB 4. CONTRACTOR BROKE DOWN 5. ADDED WATER 6. TRUCK BROKE DOWN 7. ACCIDENT 8. CITATION 9. OTHER	
LEFT PLANT	ARRIVED JOB	START UNLOADING		TIME DUE
TOTAL ROUND TRIP	TOTAL AT JOB	UNLOADING TIME		DELAY TIME

ADDITIONAL CHARGE 1 \_\_\_\_\_  
 ADDITIONAL CHARGE 2 \_\_\_\_\_  
 GRAND TOTAL ▶▶ \_\_\_\_\_

# Project Diary

Project: <u>Hardin County DD # 9</u>			
CGA PN: <u>6735.1</u>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
Contractor: <u>Behlke Construction</u>		Date: <u>10-31-20</u>	<u>hce G.</u>
Superintendent: <u>Justin Vaughn</u>	Weather Conditions: <u>Sunshine</u>	Precip.: "	Temp. Hi: ° Temp. Low: °
INSPECTOR: Time Arrived: <u>8:45 a.m.</u>	Time Left: <u>1:00 p.m.</u>	Contractor: Time Arrived:	Time Left: <u>1:00 p.m.</u>
1. General Remarks and Work Accomplished: <u>8:45 a.m. = Set up G.P.S on CPT # 7320 and checked into # 90 (good).</u> <u>9:15 a.m. = Back at job site.</u> <u>grade check = # 7419 15" rcp FL = 1139.72 Plan FL = 1139.74 station = 15+66</u> <u>9:59 a.m. = Ditch man reported there was one soft spot, that needed a small amount of gravel. side walls of trench are standing up good.</u> <u>10:14 a.m. = Grade check GPS # 7420 FL = 1139.76 0.03 low per plan grade 0.17</u> <u>crew was done laying pipe for day.</u> <u>10:50 a.m. = crew was working on 5" HDPE connection GPS # 7389</u> <u>connected 5" HDPE GPS # 7394</u>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

PICTURE 4828



PICTURE # 4829

PICTURE# 4830



PICTURE# 4832

PICTURE # 4833



PICTURE 4834

PICTURE # 4836



PICTURE # 4840

PICTURE # 4841



PICTURE# 4843

PICTURE #4844



PICTURE # 4845

PICTURE #4846



PICTURE #4847

PICTURE #4848



PICTURE #4849

PICTURE #4850



PICTURE# 4851

PICTURE # 4852



PICTURE # 4853

PICTURE # 4854



# Project Diary

Project: <u>Hardin County DD # 9</u>			
CGA PN: <u>6735.1</u>		Days Charged:	Report No.
Contractor: <u>Gehrke Construction</u>		Date: <u>11-2-20</u>	Proj. Mgr. <input checked="" type="checkbox"/> <u>Lee G.</u>
Superintendent: <u>Justin Vaughn</u>		Weather Conditions: <u>Sunny</u>	Precip.: <u>- "</u>
INSPECTOR:		Temp. Hi: <u>°</u>	Temp. Low: <u>°</u>
Time Arrived: <u>8:35 a.m.</u>	Time Left: <u>5:20 p.m.</u>	Contractor: _____	Time Arrived: _____
		Time Left: <u>5:00 p.m.</u>	
1. General Remarks and Work Accomplished:			
<p><u>8:35 a.m. = Setup b.p.s on CPT # 7320 and checked into GPS Mon # 90 (good).</u></p> <p><u>9:16 a.m. = Back at job site. 3 man crew, installing 15" RCP.</u></p> <p><u>9:21 a.m. = Grade check # 7434 F<sub>h</sub> = 1139.97 0.01 High per plan grade 0.17 &amp; 4th crew member on-site.</u></p> <p><u>9:25 a.m. = Foreman left job site, crew worked on 10" PCC tile connection GPS pt # 7379 → # 7380 Part of 10" PCC tile repair.</u></p> <p><u>10:15 a.m. = Foreman returned to job site.</u></p> <p><u>12:43 p.m. = Grade check # 7435 F<sub>h</sub> = 1140.00 0.04 low per plan grade 0.17</u></p> <p><u>1:30 p.m. = Concrete Inc. truck on-site. Poured collar at # 7435</u></p> <p><u>1:50 p.m. = Concrete truck left site. Crew moved trench box to other side of bend.</u></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

# Inspector's Project Diary (continued)

CGA PN: 6735.1

Report  
No.

Date: 11-2-20

1. General Remarks and Work Accomplished (Continued):

Grade check # 7437  $F_L = 1140.03$  0.09 low per plan grade 0.17<sup>90</sup>

Grade check # 7436  $F_L = 1140.13$  0.05 low per plan grade 0.17<sup>80</sup>

4:30 p.m. = Crew quit laying pipe for day.

Grade check # 7439  $F_L = 1140.25$ , 0.02 High per plan grade. 0.17<sup>80</sup>

PICTURE# 4855



PICTURE# 4856

PICTURE # 4857



PICTURE # 4858

PICTURE# 4859



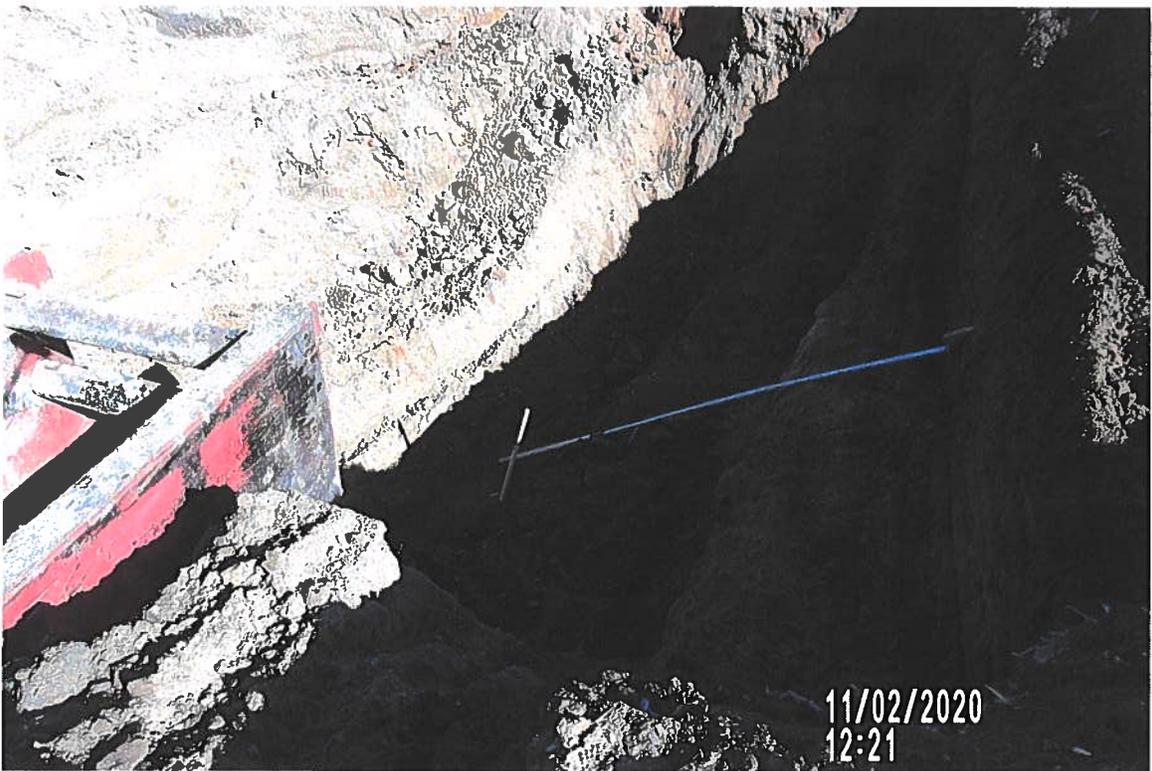
PICTURE# 4860

PICTURE # 4861



PICTURE # 4862

PICTURE# 4863



PICTURE# 4864

PICTURE #4865



PICTURE # 4866

PICTURE# 4867



PICTURE# 4869

PICTURE # 4870



11/02/2020  
13:44

MARSHALLTOWN, IOWA 50158  
PHONE: (841) 752-3696  
FAX: (841) 752-8644

**EGE**  
CONCRETE INC.

SOLD TO:  
DEBATE INC.

TIME	FORMULA	LOAD SIZE	YARDS ORDERED	DRIVE/TRUCK	P.O. NUMBER	PLANT/REMARKS
13:05:43	H90	1.50		361		33
DATE	LOAD #	YARDS DEL	MATCH #	WATER TRIM	SLUMP	TICKET NUMBER
11/02/20	1	20148	0.00	4.00-10		

**WARNING**  
IRRITATING TO THE SKIN AND EYES  
Contains Portland Cement, Water, Plastic, Sand and Gravel. Prolonged contact may cause burns. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY. See back for additional warning information.

CONCRETE IS A PERISHABLE COMMODITY and BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

The undersigned promises to pay all bills, including reasonable attorney's fees, incurred in collecting any such bills.

All amounts not paid within 30 days of delivery will bear interest at the rate of 12% per annum. Not responsible for fractured aggregates or color checks. No claim allowed unless made at time material is delivered.

A \$15.00 Service Charge and Loss of the Cash Discount will be collected on all Returned Checks. Excess Delay Time Charged at \$75.00/hr.

PROPERTY DAMAGE RELEASE: TO BE SIGNED BY DELIVERER. IN THE EVENT OF DAMAGE TO THE CUSTOMER'S PROPERTY, THE DELIVERER SHALL BE RESPONSIBLE FOR THE DAMAGE TO THE PROPERTY OF THE CUSTOMER. THE DELIVERER SHALL BE RESPONSIBLE FOR THE DAMAGE TO THE PROPERTY OF THE CUSTOMER. THE DELIVERER SHALL BE RESPONSIBLE FOR THE DAMAGE TO THE PROPERTY OF THE CUSTOMER.

Excessive Water is Detrimental to Concrete Performance  
H<sub>2</sub>O Added By Request/Authorized By  
GAL X

WEIGHMASTER: X

NOTICE: BY SIGNATURE BELOW, BUYER AGREES THAT HE HAS READ THE HEALTH AND SAFETY WARNING AND SUPPLIER'S MSDS. HE IS RESPONSIBLE FOR ANY DAMAGE CAUSED WHILE PLACING AND/OR CURING CONCRETE.

LOAD RECEIVED BY: X

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.50	H90	M90	4000.00	6000.00

RETURNED TO PLANT	LEFT JOB	FINISH UNLOADING	DELAY EXPLANATION	DELIVERY FEET TAKEN	TIME ALLOWED
			1. JOB NOT READY 2. SLOW POUR OR PAUSE 3. TRUCK AHEAD ON JOB 4. CONTRACTOR SPOKE OF 5. ADDED WATER	1. FREE UNLOAD 2. 100 FT 3. 100 FT	TIME DUE
					ADDITIONAL
					ADDITIONAL
TOTAL ROUND TRIP	TOTAL AT JOB	UNLOADING TIME			DELAY TIME

11/02/2020  
14:01

GRAND TOTAL

PICTURE # 4872

PICTURE# 4874



PICTURE# 4875

PICTURE # 4876



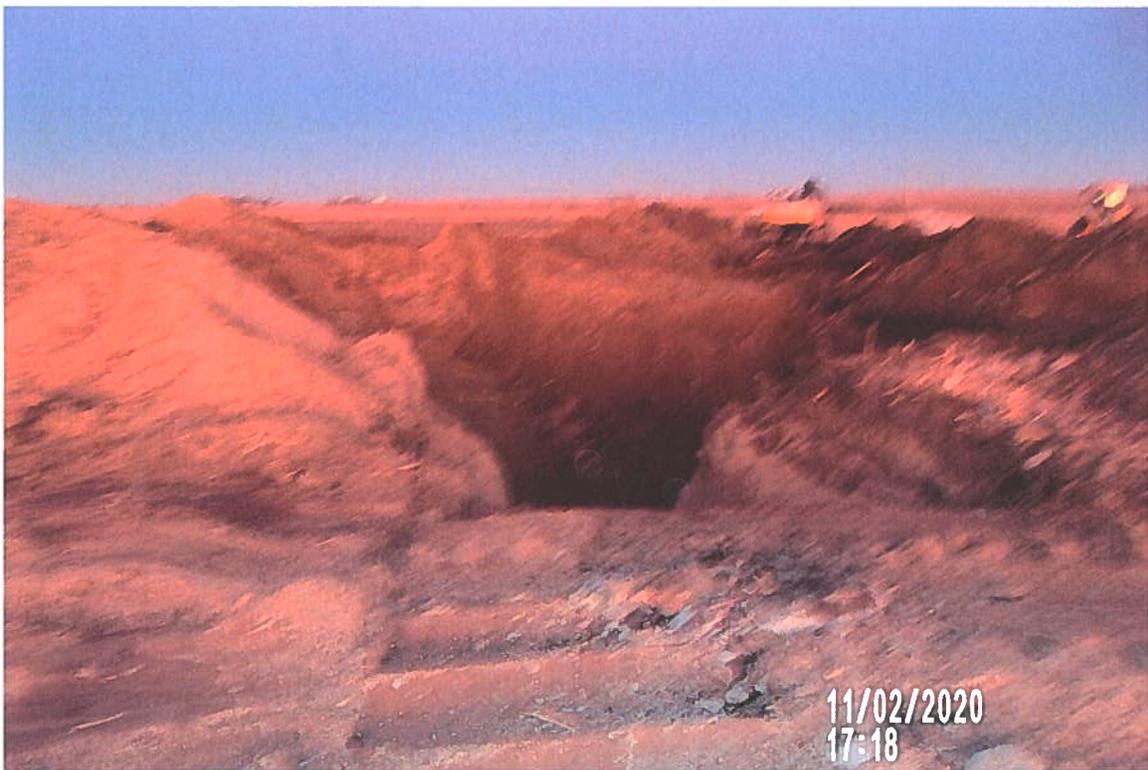
PICTURE # 4877

PICTURE# 4879



PICTURE# 4880

PICTURE # 4881



PICTURE # 4882

PICTURE # 4883



# Project Diary

Project: <i>Hardin County DD # 9</i>		Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
CGA PN: <i>6735.1</i>			Date: <i>11-3-20</i>	<i>Lee G.</i>
Contractor: <i>Rehrke Construction</i>		Weather Conditions:	Precip.: "	Temp. Hi: <i>76</i> °
Superintendent: <i>Justin Vaughn</i>		<i>Clear - Sunny</i>		Temp. Low: <i>40</i> °
INSPECTOR: Time Arrived: <i>8:55 a.m.</i> Time Left: <i>3:00 p.m.</i>		Contractor: Time Arrived: <i>7:30 a.m.</i> Time Left:		
<p>1. General Remarks and Work Accomplished:</p> <p><i>Set up GPS on CPT # 7320 and checked into Hub at 21+00 # 7432</i>  <i>9:30 a.m. = # 7441 grade check. 0.02 High per plan grade of 0.17%</i>  <i># 7442 = Top of 8" plastic tile. Station = 18+36 (N. side trench).</i>  <i># 7444 = Top of 6" VCP. Station 19+98.6</i>  <i># 7445 = grade check = on plan grade.</i>  <i># 7447 = grade check = .05 low per plan grade of 0.17%.</i>  <i># 7449 = grade check = .02 low per plan grade.</i>  <i># 7450 = ground shot above a 6" VCP.</i>  <i># 7451 = grade check = 0.09 low per plan grade of 0.17%.</i>  <i>Bedding gravel used, station = 19+68 to 20+12 = 44'</i>  <i>21+54.8 to 22+43.4 = 88.6'</i></p>				
<p>2. <del>Changes or Extra Work Ordered:</del> <i>Begin installing 15" rcp = # 7439 Station = 18+54.8</i>  <i>End installing 15" rcp = # 7451 Station = 21+76</i>  <div style="text-align: right; border-top: 1px solid black; width: 100px; margin-left: auto;"><i>321.2</i></div></p>				
3. Test Samples Taken:				
4. Visitors to Site:				
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:				
6. Attachments (total sheets attached <u>0</u> ):				

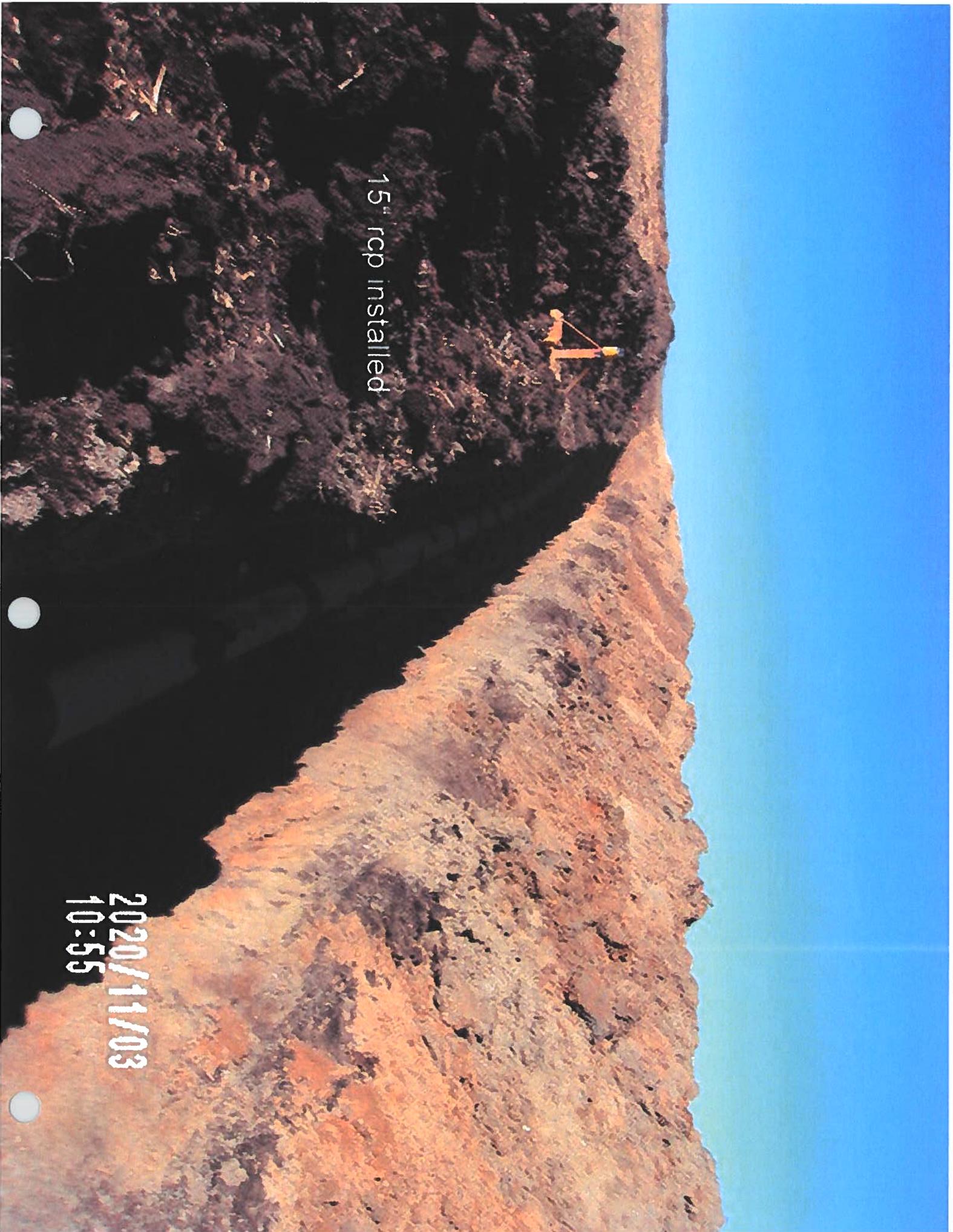


15' rcp. paid out for installation

2020/11/03  
10:55

15" rcp installed

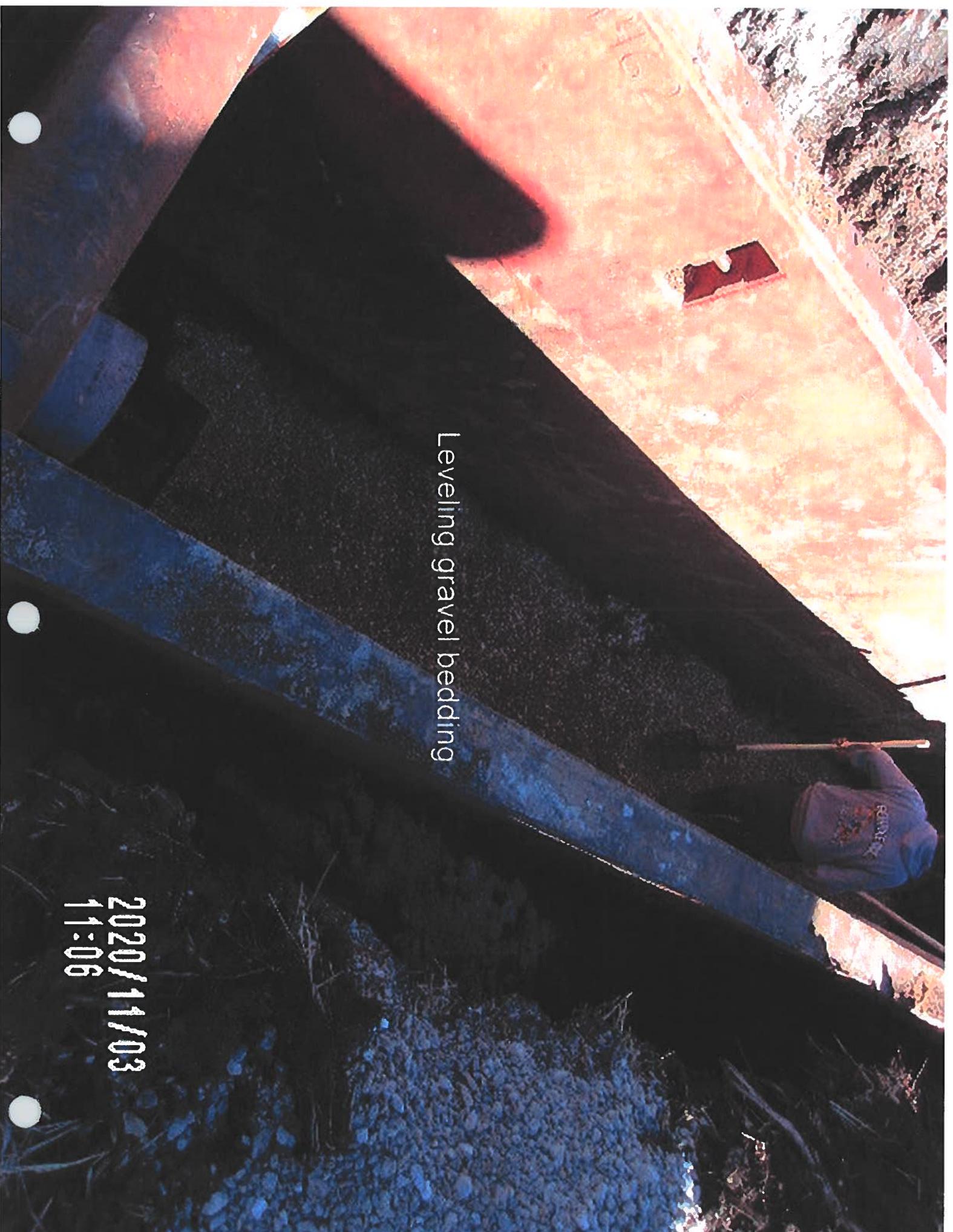
2020/11/03  
10:55





gravel bedding installed

2020/11/03  
10:56



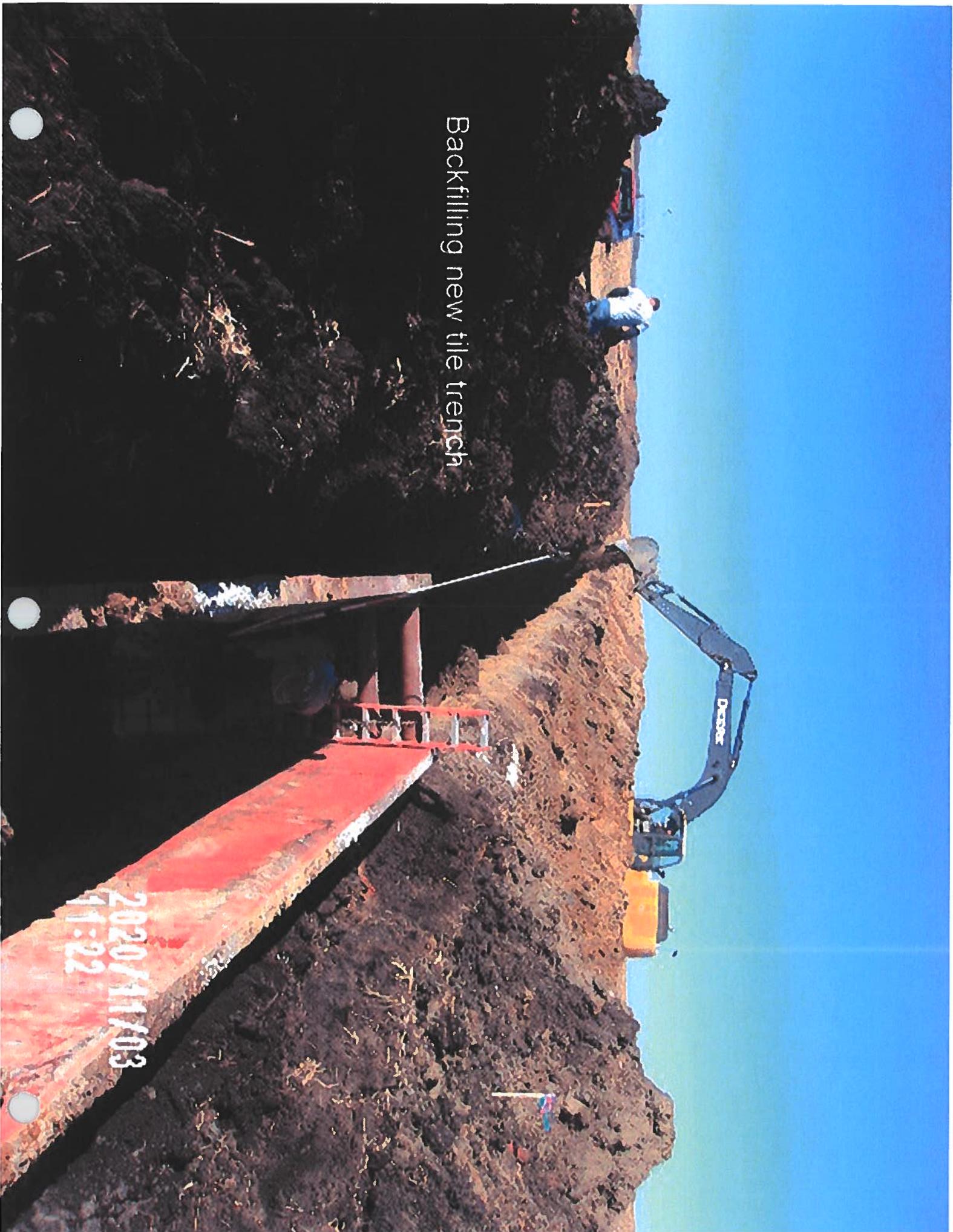
Leveling gravel bedding

2020/11/03  
11:06

Pulling trench box

2020/11/03  
11:22





Backfilling new tile trench

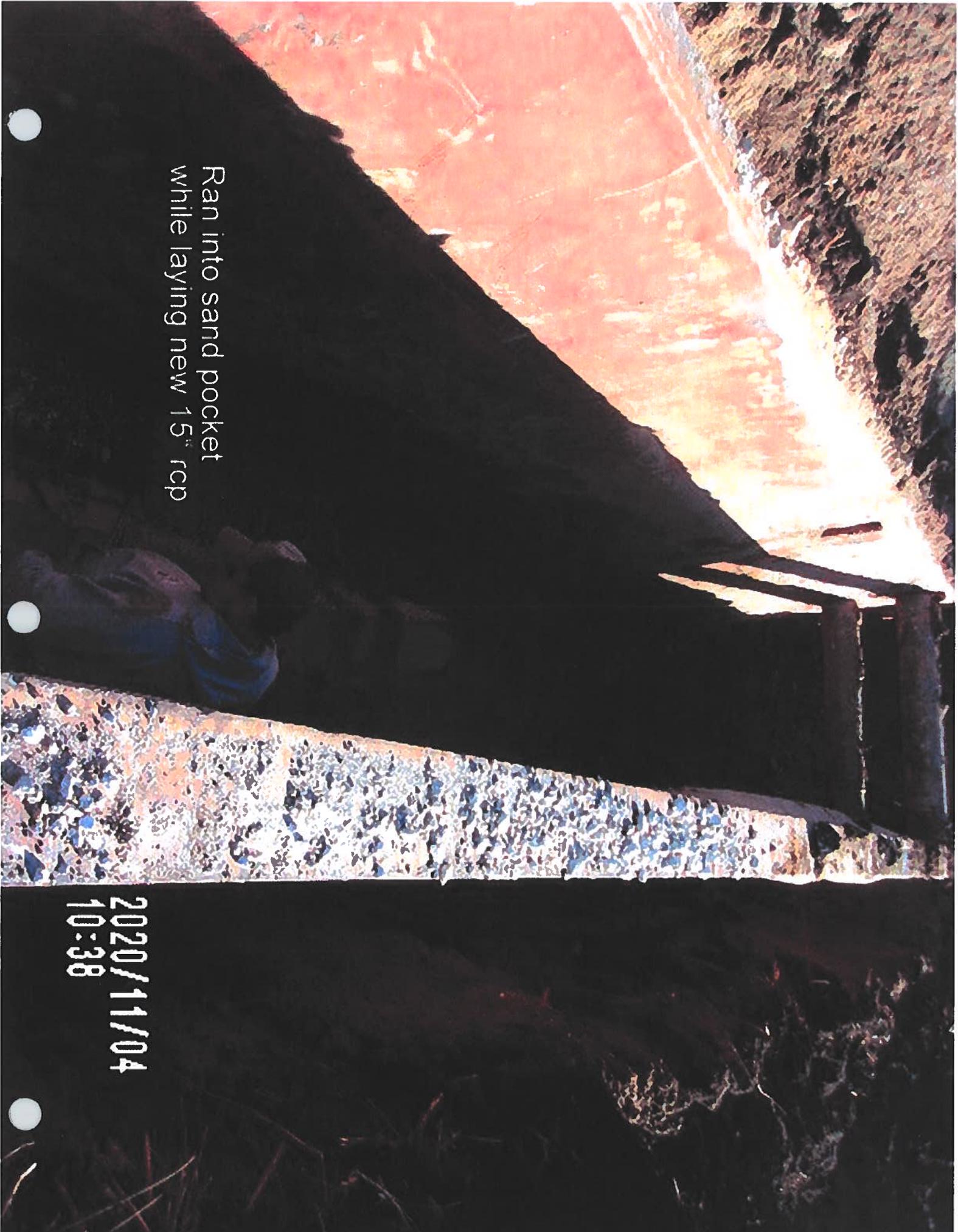
2020/11/03  
11:22

# Project Diary

Project: <i>Hardin County DD # 9</i>			
CGA PN: <i>6735.1</i>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/> <i>Lee G.</i>
Contractor: <i>Gehelke Construction</i>		Date: <i>11-4-20</i>	
Superintendent: <i>Justin Vaughn</i>	Weather Conditions: <i>Clear - Sunny</i>	Precip.: - "	Temp. Hi: <input type="checkbox"/> ° Temp. Low: <i>60</i> °
INSPECTOR: Time Arrived: <i>8:30 a.m.</i> Time Left: <i>4:55 p.m.</i>	Contractor: Time Arrived: <i>7:30 a.m.</i> Time Left:		
<p>1. General Remarks and Work Accomplished:</p> <p><i>8:30 a.m. = set up GPS on CPT # 7320. checked into Hub at 24+00</i>  <i>8:53 a.m. = # 7453 grade check. 0.03' High per plan grade 0.17'</i>  <i>9:18 a.m. = Crew hit a sand pocket and began using bedding rock.</i>  <i>10:12 a.m. = # 7456 grade check. 0.08' High per plan grade of 0.17'.</i>  <i>10:46 a.m. = Crew hit a sand pocket, began using bedding rock.</i>  <i>11:02 a.m. = # 7459 grade check. 0.04' high per plan grade of 0.17'.</i>  <i>12:46 p.m. = crew hit a sand pocket. Began using bedding rock.</i>  <i>12:53 p.m. = # 7462 grade check. 0.01' high per plan grade of 0.17'</i>  <i>2:47 p.m. = # 7464 grade check. 0.02' low per plan grade of 0.17'</i>  <i>3:45 p.m. = Crew plugged down stream side of Existing main tile, existing lateral #1 and # 2 on west side of railroad with water stop grout.</i>  <i>4:00 p.m. = Crew continued excavating for new 15" RCP. Foreman had</i></p>			
<p><del>2</del> Changes or Extra Work Ordered:</p> <p><i>to cover already exposed laterals to be able to excavate for new 15" RCP.</i>  <i>4:50 pm = # 7465 grade check (last Pt. for day). on plan grade.</i>  <i>Last Pt # from previous day = # 7451 station 21+76</i></p>			
<p>3. Test Samples Taken:</p> <p><i>last Pt # shot today = # 7465 station <math>\frac{25+29.3}{353.3}</math></i></p>			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

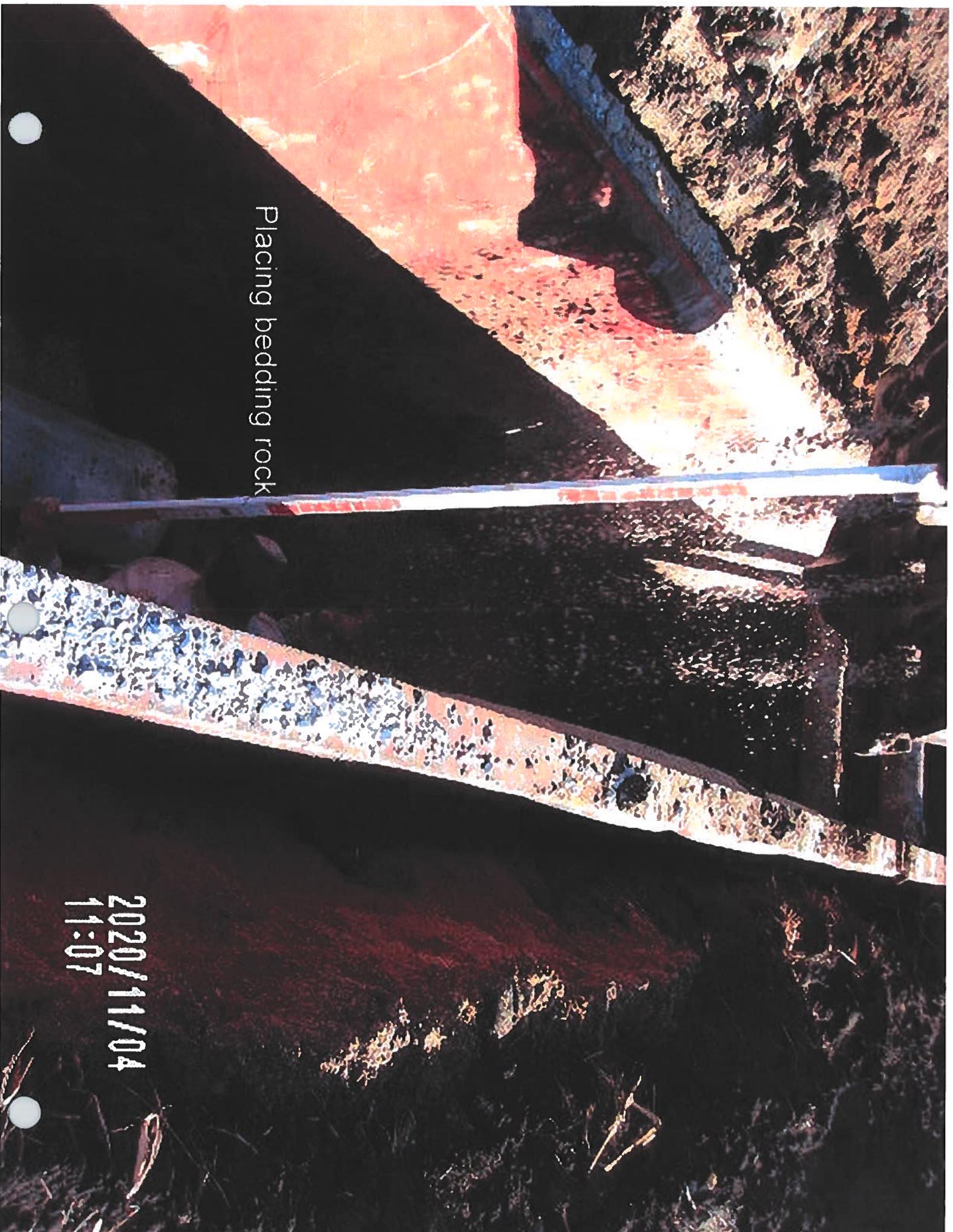
Ran into sand pocket  
while laying new 15" rcp

2020/11/04  
10:38



Placing bedding rock

2020/11/04  
11:07





Bedding rock placed in bottom trench

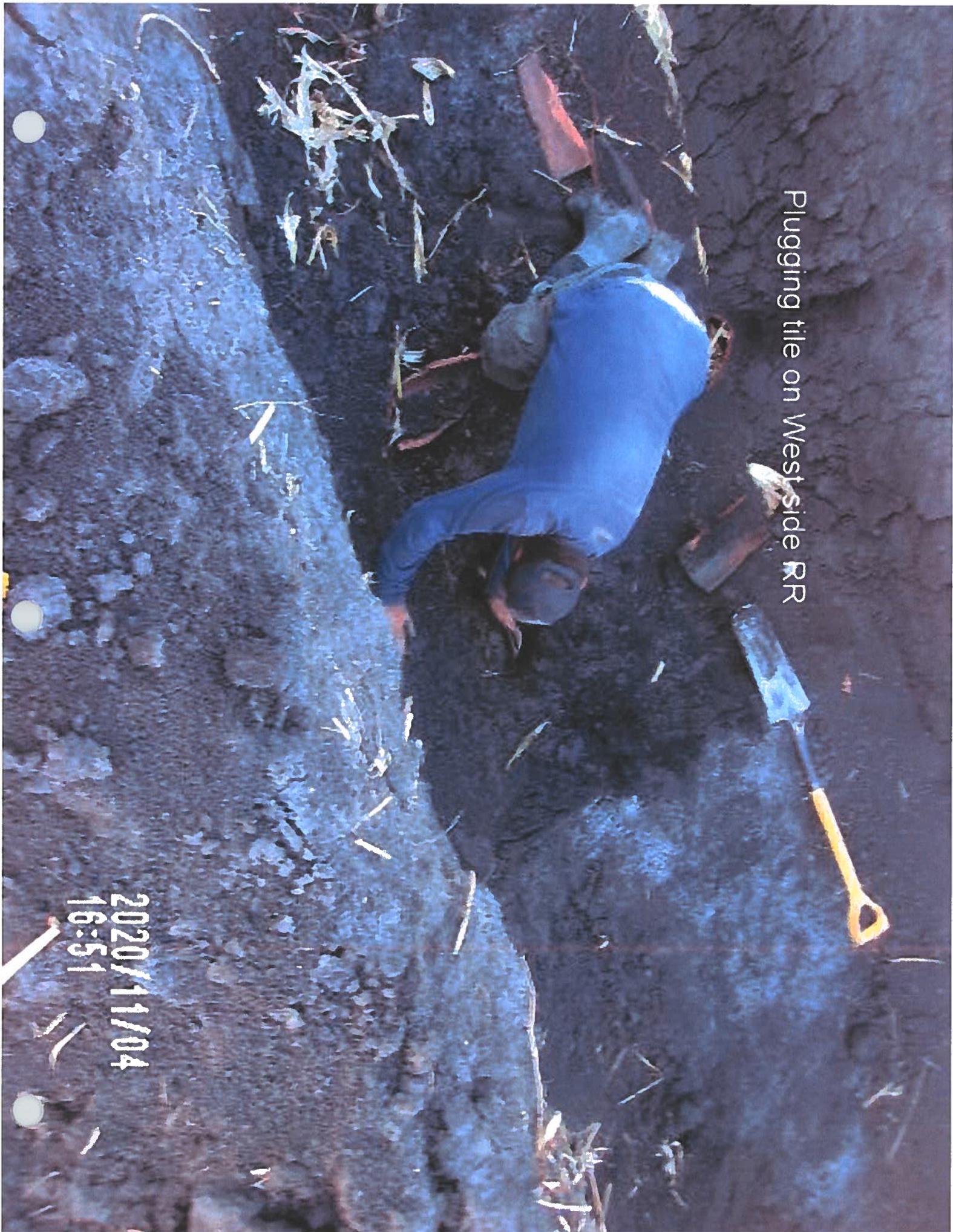
2020/11/04  
14:47

Tile plugged on West side RR

2020/11/04  
16:48



Plugging tile on Westside RR

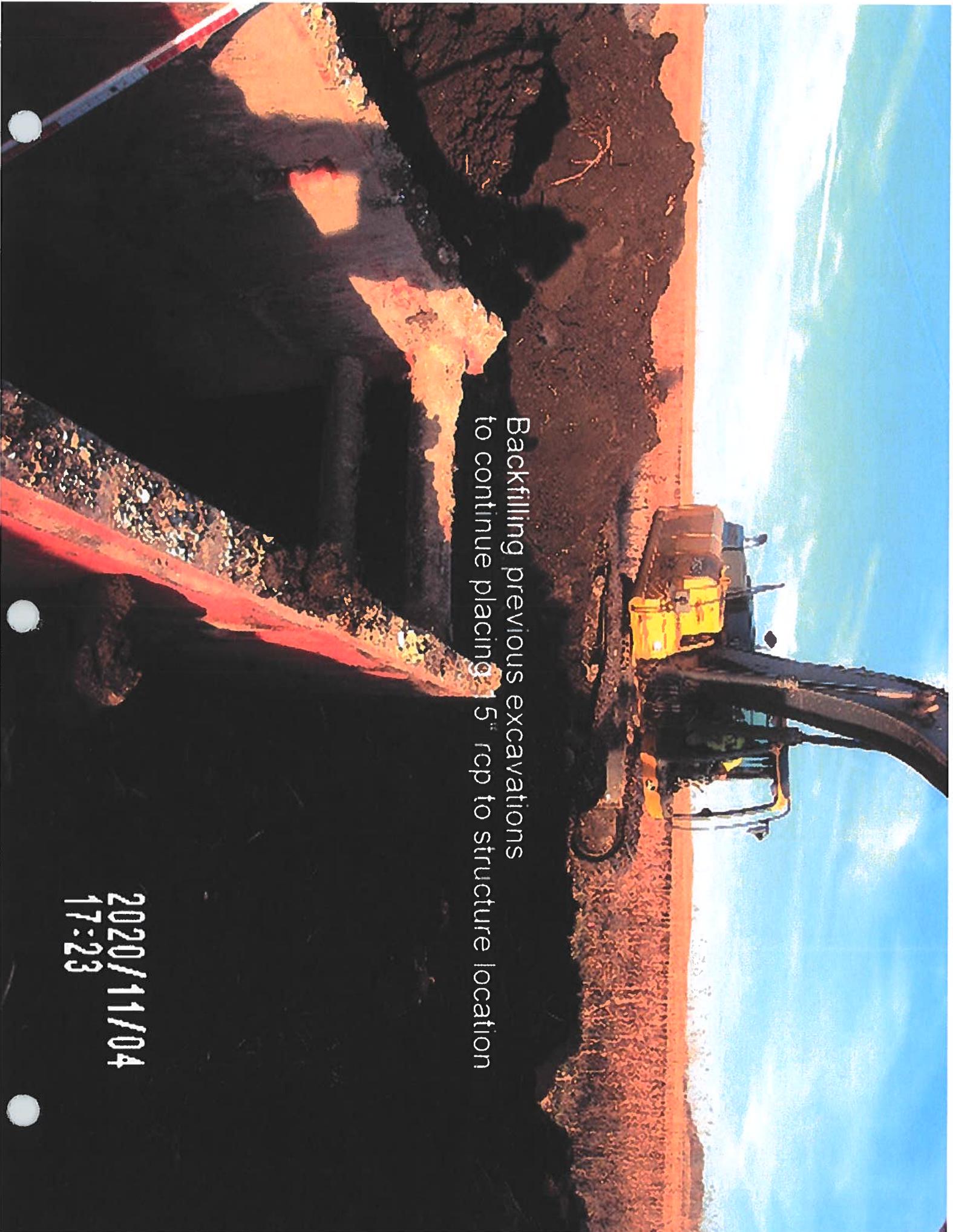


2020/11/04  
16:51

Tile plugged

2020/11/04  
16:55





Backfilling previous excavations  
to continue placing 15" rcp to structure location

2020/11/04  
17:23

# Project Diary

<b>Project:</b>			
<b>CGA PN:</b> 6735.1	<b>Days Charged:</b>	<b>Report No.:</b>	<b>Proj. Mgr.</b> <input checked="" type="checkbox"/>
<b>Contractor:</b>		<b>Date:</b> 11-5-2020	
<b>Superintendent:</b>	<b>Weather Conditions:</b> Sunny	<b>Precip.:</b> 0 "	<b>Temp. Hi:</b> 85 ° <b>Temp. Low:</b> °
<b>INSPECTOR:</b> Time Arrived: 9:30      Time Left: 5:00		<b>Contractor:</b> Time Arrived: 7:00      Time Left:	
1. General Remarks and Work Accomplished:			
<p>9:30 - arrived at site, contractor had set Junction structure, Approx 23' west of RR Fence.</p> <p>10:30 - plugged existing VCP tile on east side of RR tracks</p> <p>10:35 - talked to Lee, adjust J.S. to be buried with Bolted down MH.</p> <p>1:00pm - concrete truck showed up poured CONC. Collov. at J.S. end bond.</p> <p>4:00pm - connected Lot 1, 2 + main to J.S.</p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:  None			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

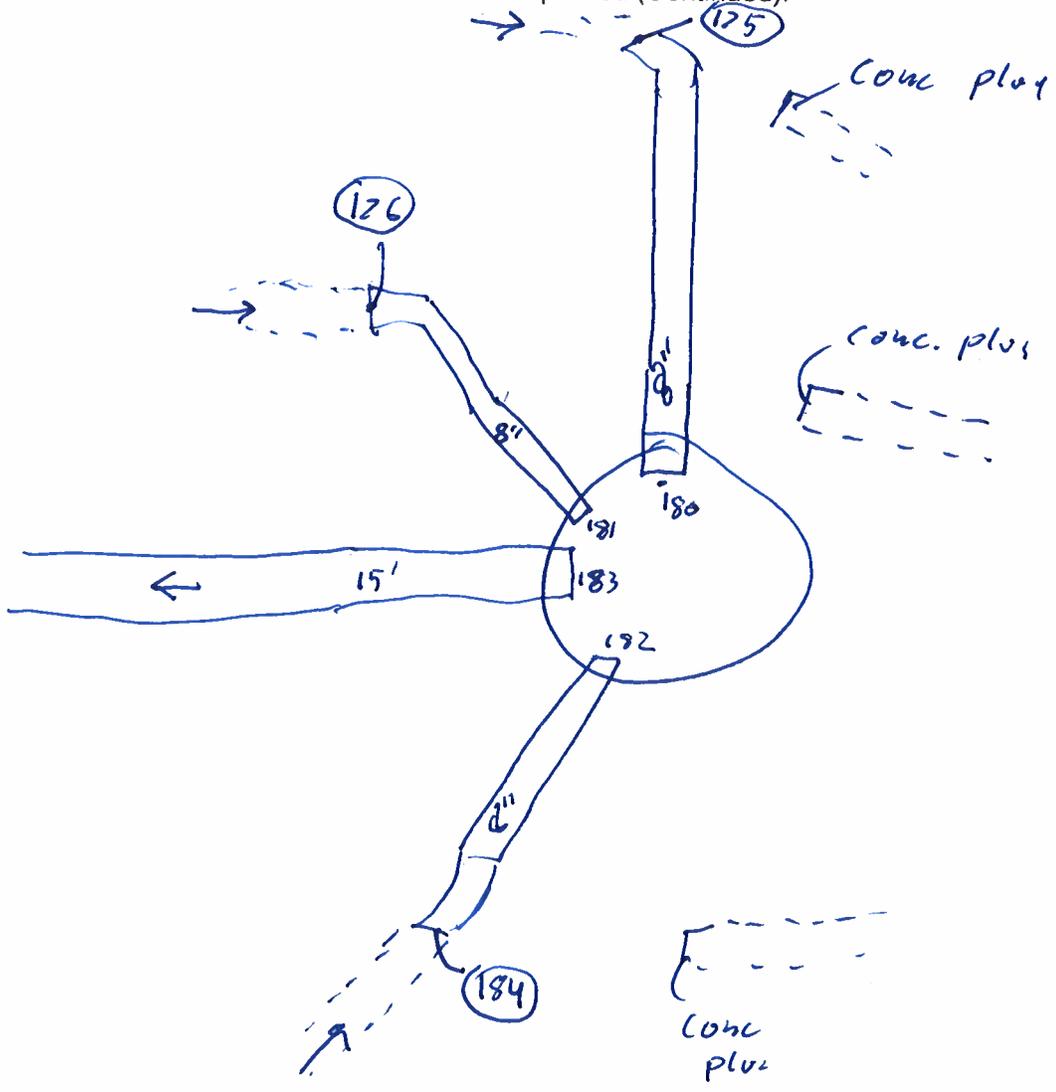
# Project Diary (continued)

CGA PN: 6335.1

Report No.

Date: 11-5-20

1. General Remarks and Work Accomplished (Continued):



























# Project Diary

<b>Project:</b>			
<b>CGA PN:</b> 6735.1	<b>Days Charged:</b>	<b>Report No.:</b>	<b>Proj. Mgr.</b> <input checked="" type="checkbox"/>
<b>Contractor:</b>		<b>Date:</b> 11-6-20	
<b>Superintendent:</b>	<b>Weather Conditions:</b> Sunny, windy	<b>Precip.:</b> "	<b>Temp. Hi:</b> 85 ° <b>Temp. Low:</b> 62 °
<b>INSPECTOR:</b> Time Arrived: 9:45      Time Left: 3:15		<b>Contractor:</b> Time Arrived: 9:45      Time Left:	
<p>1. General Remarks and Work Accomplished:</p> <p>arrived on site contractor <del>was</del> had already placed manhole on J.S. and Bolted down H.H. lid to O.G.</p> <p>connected 3 tile to new main tile, 8" SW HDPE (7480), VCP 6" tile (7484) 6" VCP (7486), plus 3 conc. plv. (7488), (7485), &amp; (7482)</p> <p>contractor started to place Rip-Rap at out let. placed geo fabric down first</p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

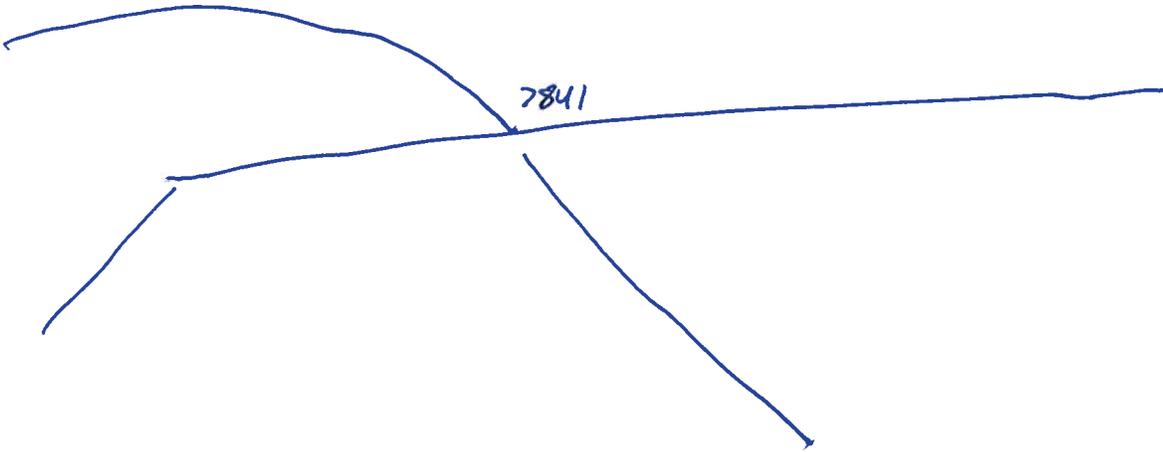
# Project Diary (continued)

CGA PN: 6735.1

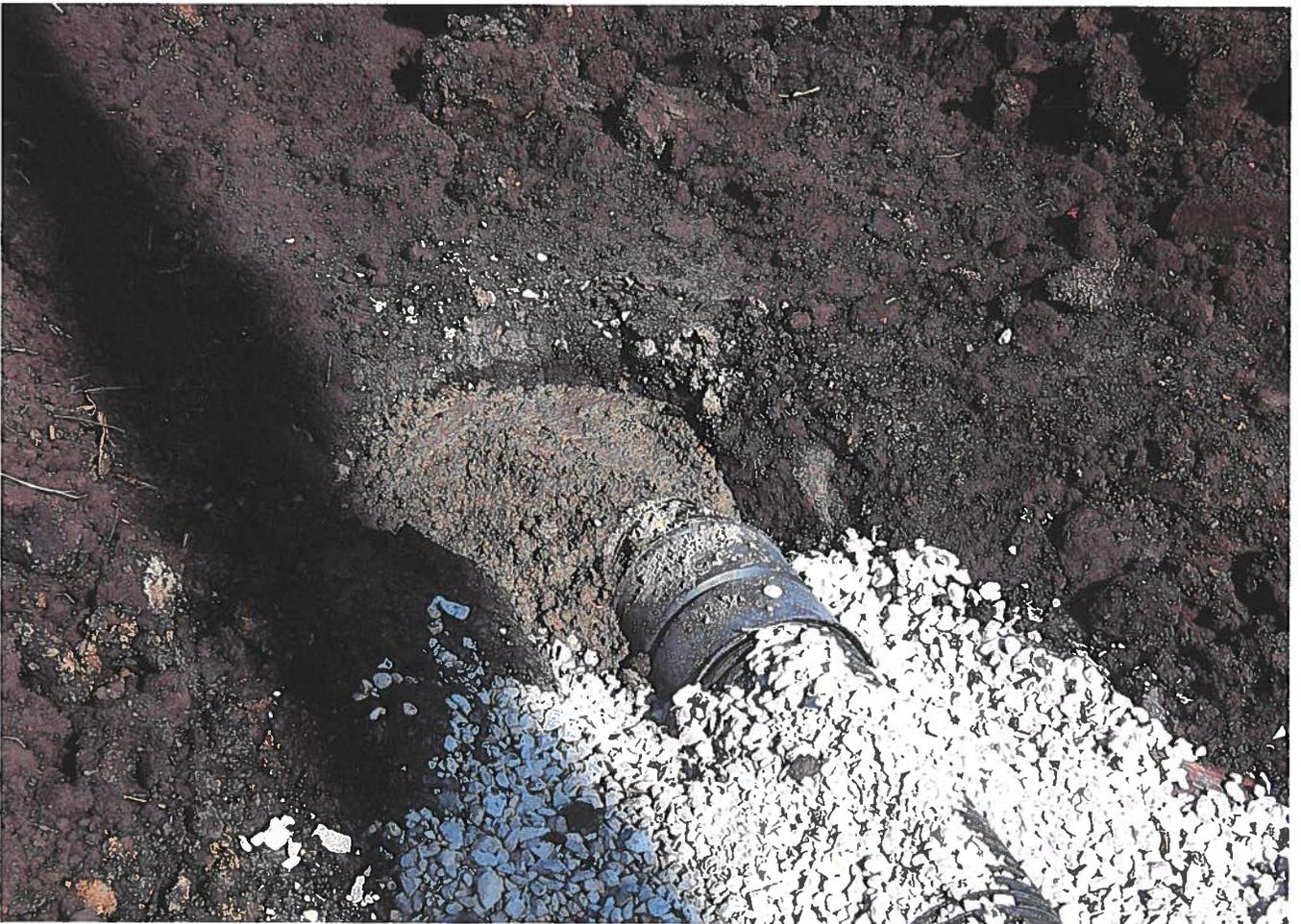
Report No.

Date:

1. General Remarks and Work Accomplished (Continued):





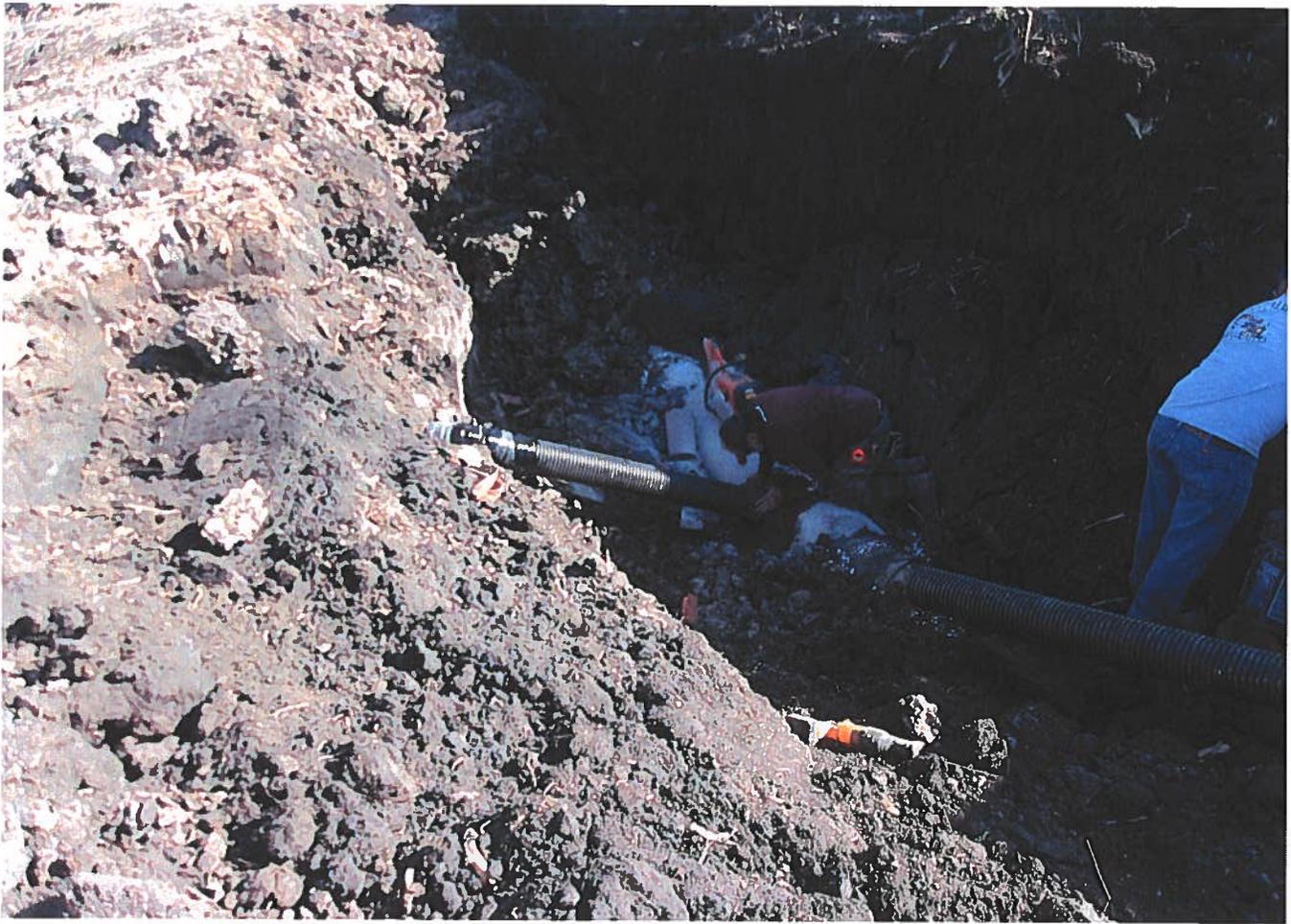












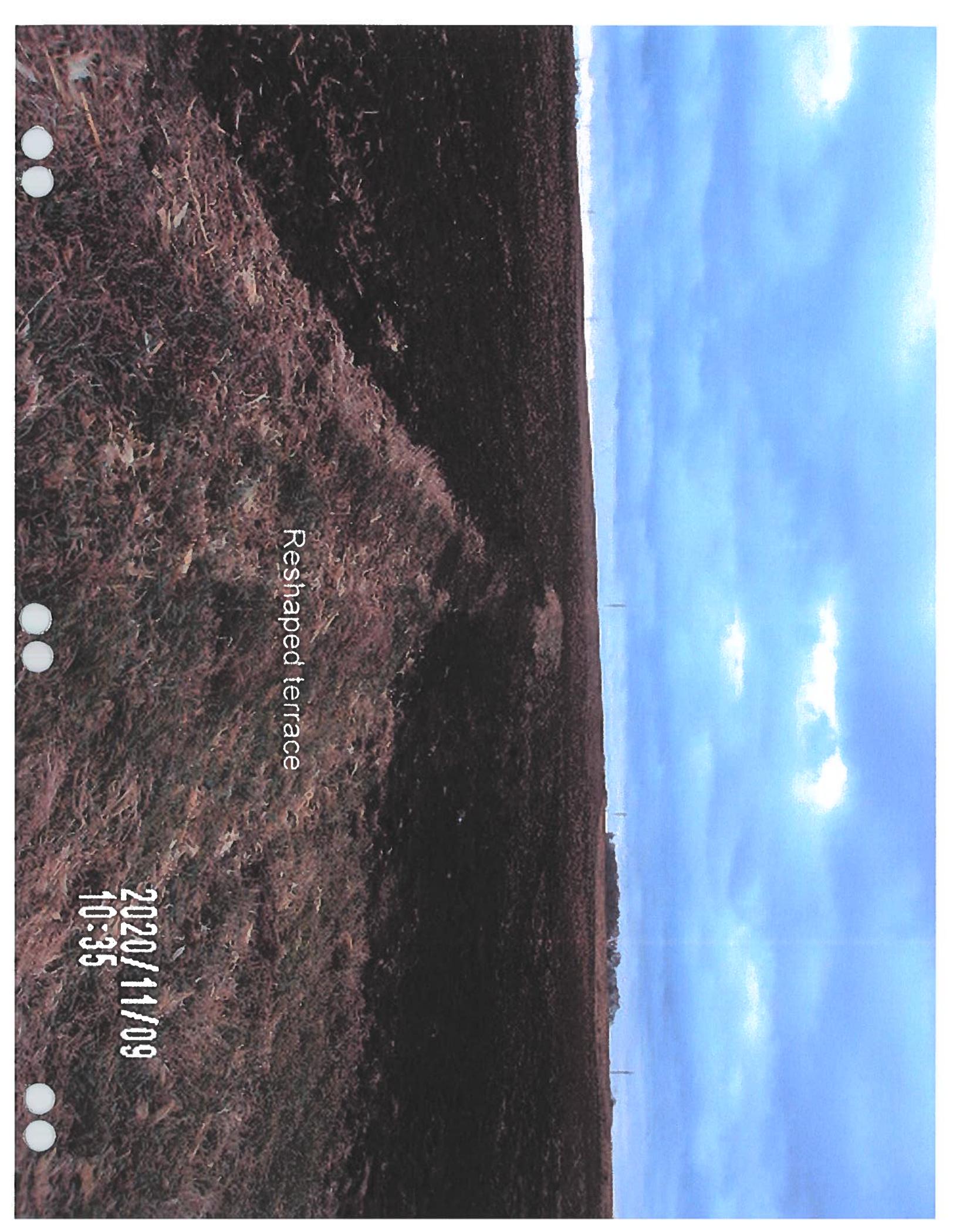






# Project Diary

Project: <u>Hardin County DD #9</u>		Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
CGA PN: <u>6735.1</u>			Date: <u>11-9-20</u>	<u>Lee G.</u>
Contractor: <u>Gehrke Construction</u>		Weather Conditions:	Precip.: "	Temp. Hi: °
Superintendent: <u>Justin Vaughn</u>				Temp. Low: °
INSPECTOR:	Contractor:			
Time Arrived: <u>9:13 a.m.</u>	Time Left: <u>9:50 a.m.</u>	Time Arrived: <u>-</u>	Time Left: <u>-</u>	
1. General Remarks and Work Accomplished:				
<p><u>9:13 a.m. = Entire job site had been ripped.</u>  <u>Took pictures of rebuilt terraces and outlet.</u>  <u>Punch list.</u>  <u>1. Seed Terraces</u>  <u>2. Repair Fence</u></p> <p><u>Rodent guard was installed.</u>  <u>Rip Rap at outlet placed</u>  <u>Returned to office</u></p>				
2. Changes or Extra Work Ordered:				
3. Test Samples Taken:				
4. Visitors to Site:				
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:				
6. Attachments (total sheets attached <u>0</u> ):				



Reshaped terrace

2020/11/09  
10:35

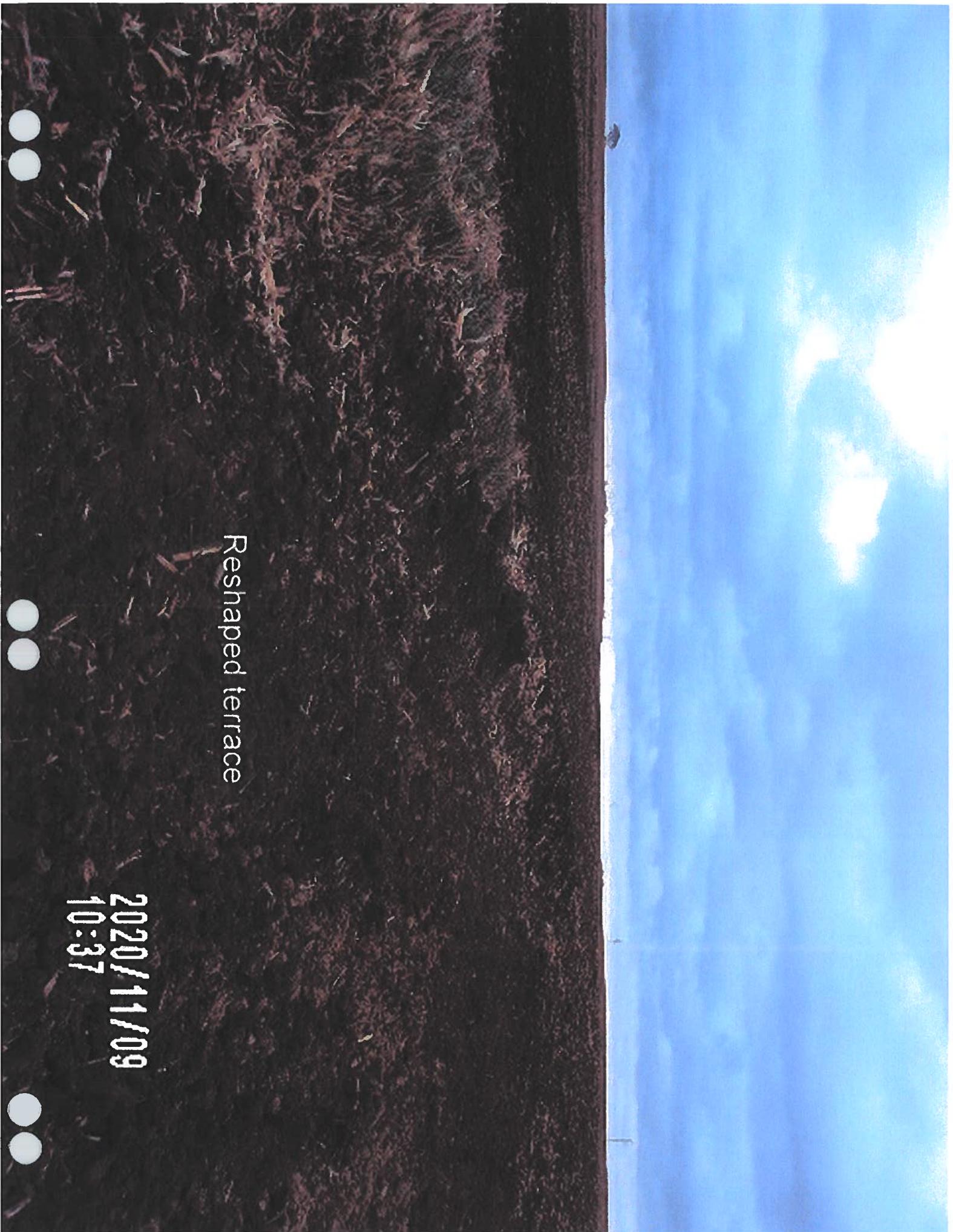
Reshaped terrace

2020/11/09  
10:35



Reshaped terrace

2020/11/09  
10:36

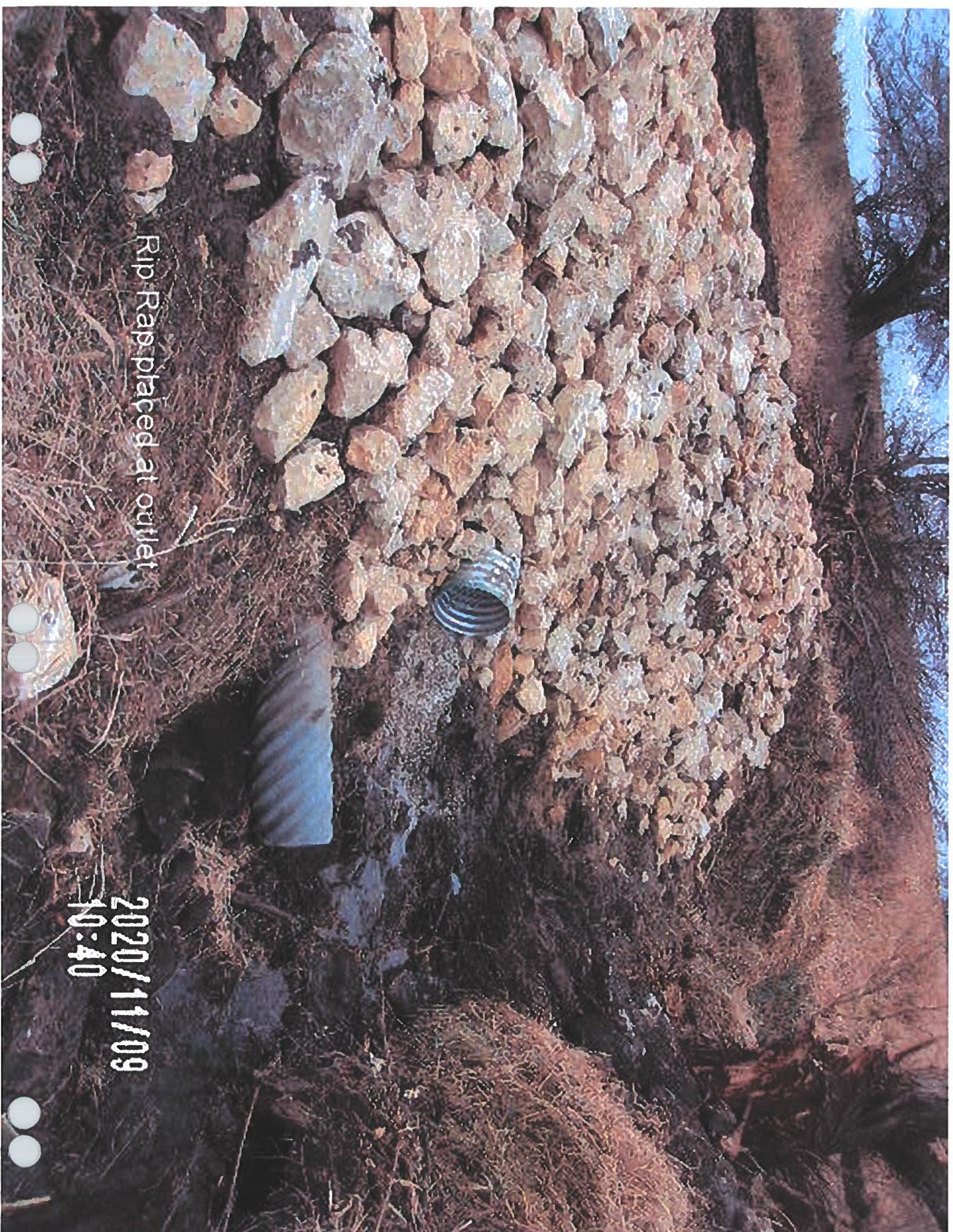


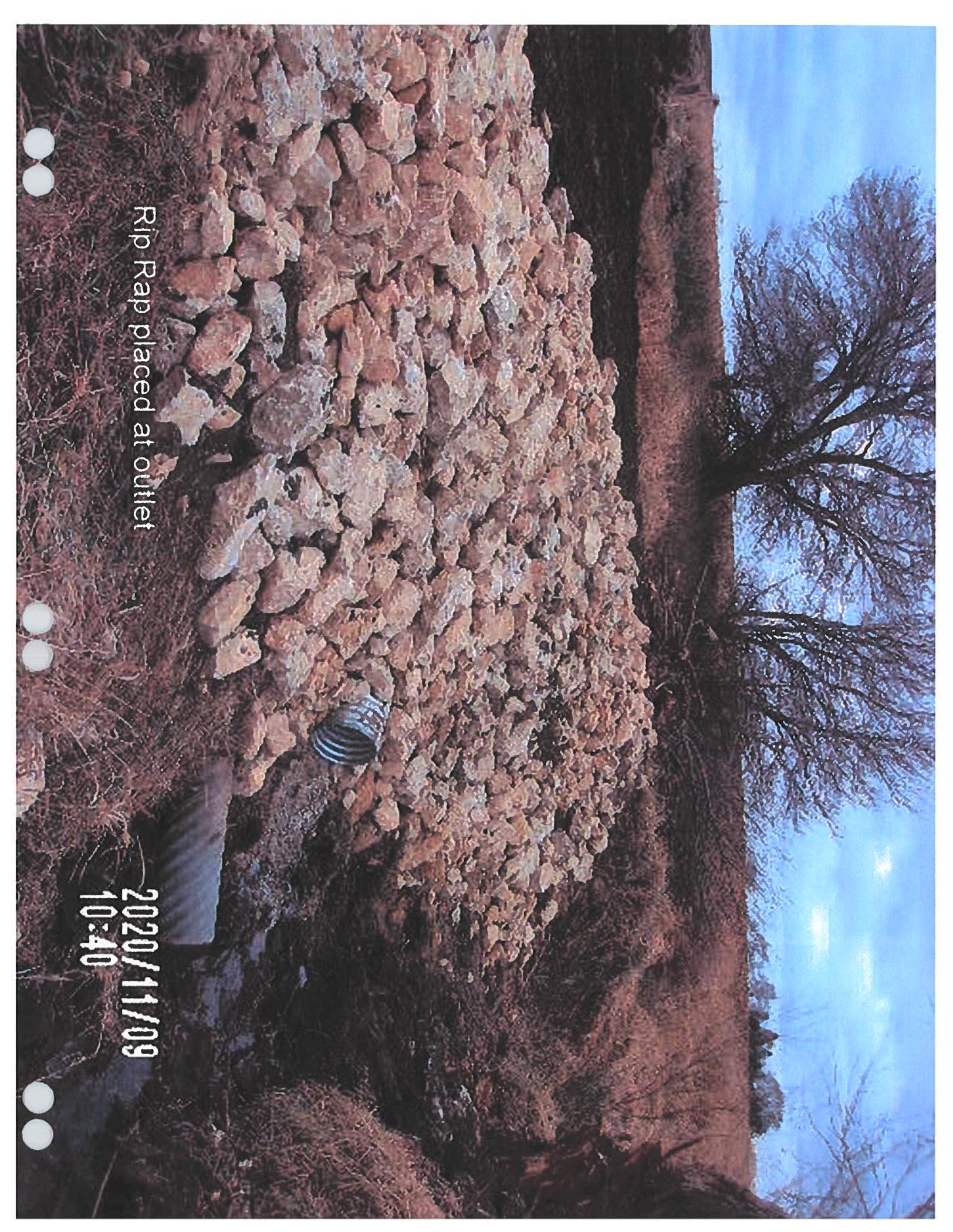
Reshaped terrace

2020/11/09  
10:37

Rip Rap placed at outlet

2020/11/09  
10:40



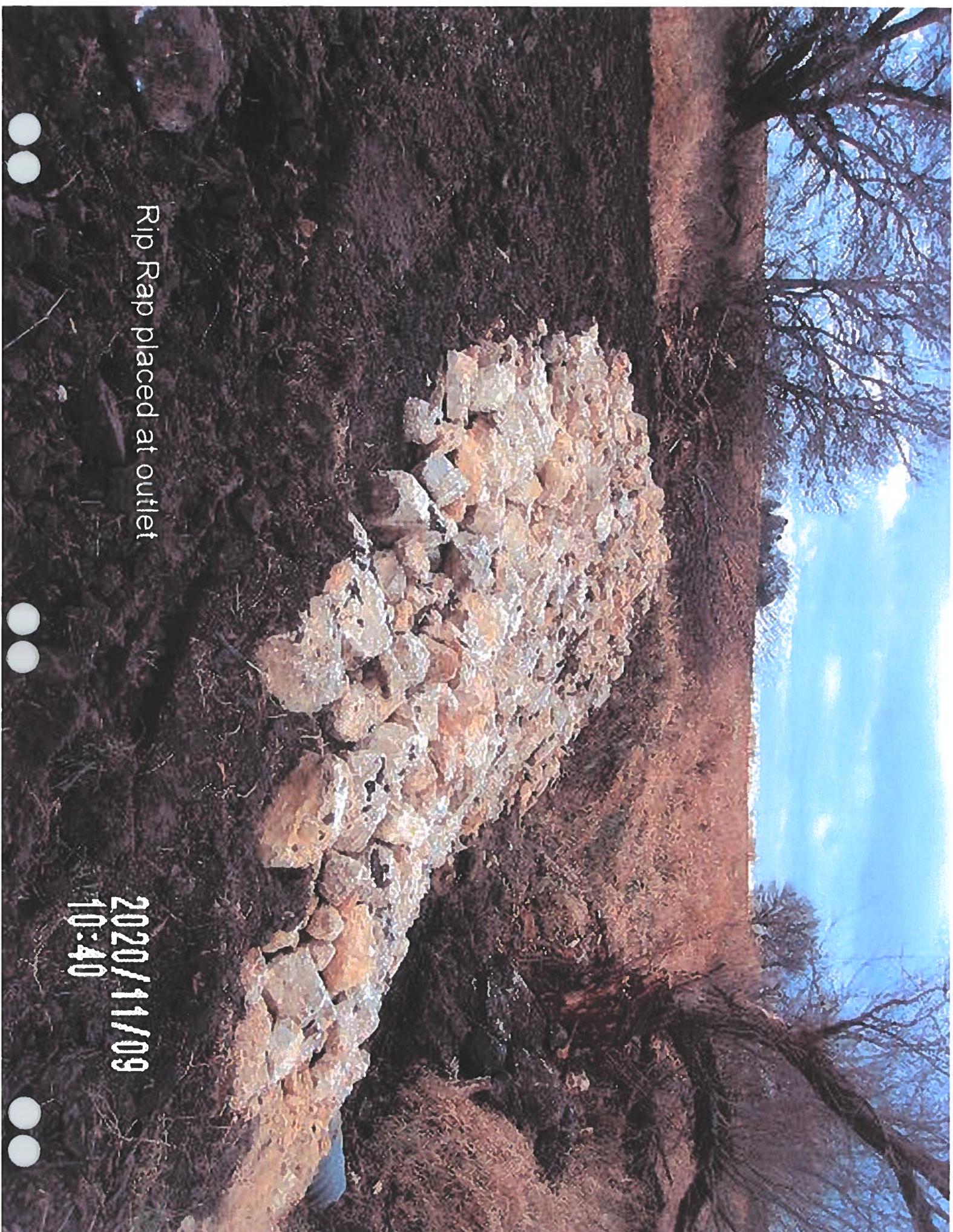


Rip Rap placed at outlet

2020/11/09  
10:40

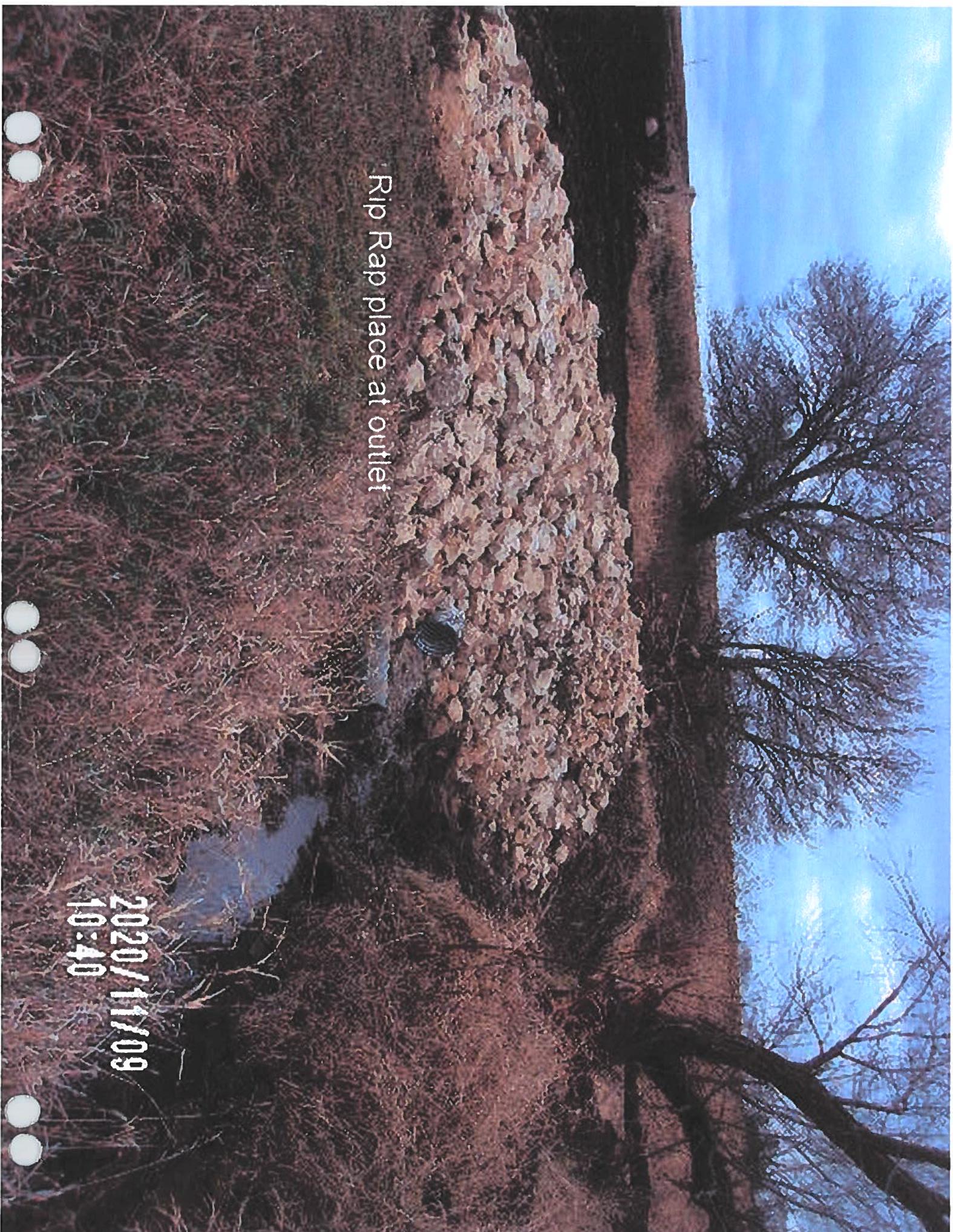
Rip Rap placed at outlet

2020/11/09  
10:40



Rip Rap place at outlet

2020/11/09  
10:40



# Project Diary

Project: <i>Hardin County DD # 9</i>		Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
CGA PN: <i>6735.1</i>			Date: <i>12-15-20</i>	<i>Lee G.</i>
Contractor: <i>Orch/ke Construction</i>		Weather Conditions:	Precip.:	Temp. Hi: °
Superintendent: <i>Justin Vaughn</i>		<i>cloudy - Cool</i>	<i>- "</i>	Temp. Low: °
INSPECTOR:	Time Arrived: <i>10:51 a.m.</i>	Time Left:	Contractor:	Time Arrived: <i>-</i>
				Time Left: <i>-</i>
1. General Remarks and Work Accomplished: <i>Punch list.</i>				
<i>10:51 a.m. = Drove out to 1st East fence line. Fence had not been replaced where new tile crossed fence line.</i>				
<i>seeding of back slope of terraces needs to be done.</i>				
2. Changes or Extra Work Ordered:				
3. Test Samples Taken:				
4. Visitors to Site:				
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:				
6. Attachments (total sheets attached <u>0</u> ):				

1,3618658.288,4931347.715,1162.486,PP  
2,3618728.603,4931303.576,1162.106,FE  
3,3618723.499,4931323.978,1161.577,COMMON 8005  
4,3624567.908,4967262.956,1167.807,CP 3/4 .5DOWN  
5,3624592.686,4967215.376,1167.362,PP +1.00  
6,3624567.564,4967256.476,1168.164,EOG  
7,3624569.317,4967234.534,1167.844,EOG  
8,3625622.767,4965936.349,1136.883,FL BEEHIVE  
9,3625620.790,4965936.681,1136.827,FL BEEHIVE  
10,3625613.566,4965935.578,1133.136,FL MAIN  
11,3625619.398,4965935.964,1134.391,FL 12"  
12,3625560.195,4965862.448,1132.883,FL MAIN  
13,3625557.027,4965857.455,1132.956,FL MAIN  
14,3625532.228,4965820.687,1132.959,FL MAIN  
15,3625531.158,4965819.038,1133.012,FL MAIN  
16,3625030.486,4961879.554,1119.906,fl 24" cmp  
17,3625081.210,4961887.016,1126.795,gs locate above tile  
18,3625116.496,4961907.064,1127.124,gs locate above tile  
19,3625150.791,4961931.117,1127.720,gs locate above tile  
20,3625182.225,4961950.965,1127.790,gs locate above tile  
21,3625212.638,4961972.261,1128.024,gs locate above tile  
22,3625235.068,4961995.831,1127.330,gs locate above tile  
23,3625255.952,4962025.290,1127.166,gs locate above tile  
24,3625258.726,4962030.369,1127.287,gs locate end camera tile collapse  
25,3625222.644,4961979.792,1123.802,gs 2.0' dia blow out  
26,3625261.916,4962032.767,1125.027,gs 4.0' dia blow out  
27,3625029.867,4961960.328,1131.506,fence e  
28,3625021.107,4961961.555,1131.254,fence e-w  
29,3625032.016,4961959.460,1131.713,fence s&w  
30,3625043.159,4961889.932,1126.970,fence e-w  
31,3625045.173,4961877.371,1125.552,fence e-w  
32,3625045.319,4961877.300,1129.047,top wood weir  
33,3625046.440,4961867.243,1129.007,top wood weir  
34,3625046.663,4961868.365,1125.304,top wood weir  
35,3625051.487,4961847.681,1125.224,top wood weir  
36,3625051.178,4961848.007,1129.003,top wood weir  
37,3625053.323,4961835.321,1129.093,top wood weir  
38,3625284.333,4962063.671,1127.878,gs above tile locate  
39,3625316.492,4962092.148,1128.231,gs above tile locate  
40,3625347.685,4962114.195,1128.701,gs above tile locate  
41,3625382.117,4962134.464,1129.286,gs above tile locate  
42,3625412.738,4962161.505,1129.912,gs above tile locate  
43,3625432.631,4962193.584,1130.305,gs above tile locate  
44,3625436.858,4962234.667,1129.889,gs above tile locate  
45,3625430.389,4962277.497,1130.429,gs above tile locate  
46,3625422.136,4962318.822,1130.768,gs above tile locate  
47,3625429.313,4962359.213,1131.153,gs above tile locate  
48,3625441.416,4962397.650,1131.495,gs above tile locate  
49,3625454.298,4962435.835,1131.879,gs above tile locate

50,3625467.017,4962475.009,1132.493,gs above tile locate  
51,3625479.868,4962512.713,1132.536,gs above tile locate  
52,3625491.930,4962551.113,1133.062,gs above tile locate  
53,3625494.430,4962593.152,1133.834,gs above tile locate  
54,3625492.429,4962607.731,1133.665,n side 4" pvc stand pipe  
55,3625490.903,4962628.612,1136.272,gs above tile locate  
56,3625487.722,4962665.483,1139.367,gs above tile locate  
57,3625483.602,4962704.768,1134.578,gs above tile locate  
58,3625482.510,4962711.988,1135.475,n side 4" pvc stand pipe  
59,3625478.034,4962738.971,1135.586,gs tile locate end camera protruding tile  
60,3625482.141,4962712.517,1135.576,gs field edge  
61,3625484.325,4962703.270,1134.338,gs ditch  
62,3625485.978,4962698.637,1133.600,fl ditch  
63,3625487.228,4962693.659,1134.373,gs ditch  
64,3625486.069,4962678.952,1138.670,gs shoulder  
65,3625486.704,4962672.626,1139.089,eog  
66,3625490.273,4962642.413,1139.036,eog  
67,3625489.045,4962658.054,1139.419,clr gravel  
68,3625490.154,4962637.388,1138.613,gs shoulder  
69,3625490.273,4962623.379,1134.415,gs ditch  
70,3625490.986,4962616.252,1133.600,fl ditch  
71,3625491.844,4962611.484,1134.046,gs @ row  
72,3625488.653,4962599.729,1134.498,gs field  
73,3625491.931,4962598.215,1134.238,gs grasswaterway  
74,3625488.947,4962563.165,1133.854,gs grasswaterway  
75,3625522.055,4962557.786,1132.944,gs grasswaterway  
76,3625531.242,4962594.974,1133.285,gs grasswaterway/field/ditch  
77,3625461.585,4962176.455,1129.118,gs 2.0' dia blow out  
78,3625264.093,4962038.818,1122.259,fl 18" clay tile  
79,3625260.859,4962033.304,1122.157,fl 18" clay tile  
80,3625268.680,4962045.122,1127.568,gs above tile  
81,3625258.500,4962029.158,1127.281,gs above tile  
82,3625476.902,4962742.890,1135.593,gs above tile  
83,3625474.421,4962754.741,1135.880,gs above tile  
84,3625475.702,4962747.447,1131.128,top 18" clay tile (1.62'toptofl)  
85,3625476.098,4962745.458,1131.106,top 18" clay tile (1.60'toptofl)  
86,3625018.202,4962610.669,1144.963,fence w&s  
87,3626305.209,4962681.126,1162.146,34 IR 0.3'D  
88,3624215.093,4967258.425,1164.084,CL DRIVE 17938 I AVE EOG  
89,3625462.386,4962829.187,1136.836,GS TILE LOCATE END CAMERA  
90,3634553.729,4968728.662,1181.518,HC GPS MON 8024  
91,3625116.368,4961910.976,1127.365,GS  
92,3625029.114,4961885.705,1119.622,GS  
93,3625068.815,4961894.798,1122.000,RCP TOP18"  
94,3625076.031,4961896.825,1122.067,RCP TOP18"  
95,3625068.288,4961902.829,1127.171,GS  
96,3625083.785,4961898.912,1122.128,RCP TOP18"  
97,3625091.351,4961901.097,1122.279,RCP TOP18"  
98,3625099.190,4961903.337,1122.311,RCP TOP18"

99,3625107.010,4961905.720,1122.371,RCP TOP18"BEND  
100,3625113.367,4961909.498,1122.477,RCP TOP18"  
101,3625118.220,4961907.787,1122.281, TOP 6"CONC LAT LT  
102,3625119.419,4961914.902,1122.508,RCP TOP18"  
103,3625125.313,4961920.261,1122.486,RCP TOP18"  
104,3625131.421,4961925.535,1122.588,RCP TOP18"  
105,3625133.060,4961920.271,1122.394,TILE TOPOLDCLAY  
106,3625137.502,4961930.752,1122.699,RCP TOP18"  
107,3625143.677,4961935.903,1122.729,RCP TOP18"  
108,3625149.889,4961940.955,1122.843,RCP TOP18"  
109,3625156.091,4961945.957,1122.857,RCP TOP18"  
110,3625150.394,4961931.446,1122.033,TILE TOP6"CLAY  
111,3625162.580,4961950.643,1122.987,RCP TOP18"  
112,3625164.044,4961951.580,1121.234,FL  
113,3625166.016,4961940.618,1121.043, FL CLAY  
114,3625168.940,4961955.657,1123.045,RCP TOP18"  
115,3625175.304,4961960.550,1123.020,RCP TOP18"  
116,3625181.653,4961965.401,1122.959,RCP TOP18"  
117,3625187.973,4961970.255,1123.042,RCP TOP18"  
118,3625194.464,4961975.207,1123.142,RCP TOP18"  
119,3625200.749,4961979.962,1123.213,RCP TOP18"  
120,3625207.134,4961984.828,1123.193,RCP TOP18"  
121,3625213.638,4961989.672,1123.294,RCP TOP18"  
122,3625219.967,4961994.688,1123.320,RCP TOP18"  
123,3625226.127,4961999.676,1123.357,RCP TOP18"  
124,3625029.797,4961884.918,1119.760,FL 24"ALUM CMP  
125,3625030.128,4961885.081,1121.783,CMP TOP 24"ALUM  
126,3625068.995,4961894.803,1122.078,CMP TOP 24"ALUM  
127,3625232.763,4962005.346,1123.408,RCP TOP18"  
128,3625238.895,4962010.616,1123.415,RCP TOP18"  
129,3625244.274,4962015.565,1123.529,RCP TOP18"  
130,3625249.398,4962022.714,1123.541,RCP TOP18"  
131,3625253.937,4962029.435,1123.591,RCP TOP18"  
132,3625258.553,4962036.140,1123.659,RCP TOP18"  
133,3625262.525,4962042.644,1123.809,RCP TOP18"  
134,3625269.125,4962058.877,1125.283,CLAY 12" TILE  
135,3625434.242,4962209.242,1119.906,5+40.000 C  
136,3625435.266,4962219.189,1119.906,5+50.000 C  
137,3625469.009,4962480.855,1119.906,8+20.000 C  
138,3625481.769,4962518.763,1119.906,8+60.000 C  
139,3625268.618,4962048.585,1123.934,RCP TOP18"  
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143,3625115.993,4961910.155,1122.741,CONC COLLAR  
144,3625119.129,4961906.619,1122.684,CONC COLLAR  
145,3625146.349,4961936.519,1122.414,CONC COLLAR  
146,3625151.894,4961930.818,1122.576,CONC COLLAR  
147,3625244.660,4962016.297,1123.989,CONC COLLAR

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149,3625265.712,4962047.111,1124.216,CONC COLLAR  
150,3625280.013,4962059.790,1125.149,CONC COLLAR  
151,3625435.336,4962205.622,1124.989,fl 18" clay tile  
152,3625437.369,4962217.044,1125.080,fl 18" clay tile  
153,3625435.283,4962205.633,1126.710,RCP TOP18"  
154,3625436.572,4962212.779,1126.725,RCP TOP18"  
155,3625437.225,4962217.301,1126.750,RCP TOP18"  
156,3625468.572,4962480.840,1127.398,fl 18" clay tile  
157,3625482.195,4962521.230,1129.316,top 18" clay tile  
158,3625477.723,4962739.981,1131.433,cmp top 20" -1.97 tfl  
159,3625468.566,4962480.691,1129.056,RCP TOP18"  
160,3625471.055,4962487.584,1129.176,RCP TOP18"  
161,3625473.554,4962495.203,1129.290,RCP TOP18"  
162,3625475.977,4962502.853,1129.401,RCP TOP18"  
163,3625478.420,4962510.586,1129.388,RCP TOP18"  
164,3625481.055,4962518.128,1129.401,RCP TOP18"  
165,3625480.100,4962742.675,1130.836,hdpe top 12"  
166,3625478.064,4962741.973,1130.582,tee lat north 12" hdpe top  
167,3625264.283,4962048.102,1123.608,hdpe top 12"  
168,3625262.798,4962049.981,1123.891,hdpe top 12"  
169,3625263.620,4962051.981,1124.117,hdpe top 12"  
170,3625269.463,4962059.667,1125.194,hdpe top 12" clay joint  
171,3631013.132,4963175.102,1143.314,VCP PLUGGED  
172,3631092.282,4963073.058,1142.349,HDP TOP 2  
173,3631110.011,4963084.217,1142.894,HDP TOP 2  
174,3631125.739,4963096.483,1143.580,HDP TOP 2  
175,3631151.370,4963109.998,1144.116,VCP 7 TOP  
176,3631100.411,4963068.042,1143.358,VCP 7 TOP  
177,3631099.600,4963068.602,1143.319,HDPE 8 TOP  
178,3631091.461,4963070.453,1142.424,HDPE 8 TOP  
179,3631084.484,4963068.376,1142.627,HDPE 8 TOP  
180,3631089.339,4963072.383,1141.624,HDPE 8 FL  
181,3631088.926,4963071.441,1141.558,HDPE 8 FL  
182,3631087.286,4963071.190,1141.702,HDPE 8 FL  
183,3631088.216,4963071.039,1141.561,500 CONC 15 FL  
184,3631066.421,4963049.713,1143.328,500 VCP 7 TOP  
200,3631027.074,4963187.729,1145.774,gs wet spot  
201,3630982.859,4963184.455,1146.159,gs wet spot  
202,3630879.514,4963109.305,1146.853,gs wet spot  
203,3630811.320,4963078.699,1146.150,gs wet spot  
204,3630782.239,4963053.556,1146.082,gs wet spot  
205,3630727.161,4962974.326,1147.250,gs wet spot  
206,3630737.474,4962970.220,1148.240,fnl ne-sw  
207,3630633.962,4962773.918,1151.424,fnl ne-sw  
208,3630831.021,4962918.194,1149.150,fnl ne-sw  
209,3631088.004,4963104.415,1147.846,fnl ne-sw  
210,3631554.920,4963441.449,1151.313,fnl ne-sw  
211,3632712.005,4964270.091,1164.104,gs wet spot

212,3632673.240,4964141.666,1162.044,gs wet spot  
213,3632593.669,4964103.743,1160.592,gs wet spot  
214,3632413.740,4963993.122,1158.076,gs wet spot  
215,3632286.537,4963910.875,1157.067,gs wet spot  
216,3632092.781,4963770.365,1155.748,gs wet spot  
217,3631989.576,4963691.485,1155.031,gs wet spot  
218,3631906.883,4963577.623,1153.958,gs wet spot  
219,3631865.652,4963480.962,1153.624,gs wet spot  
220,3631773.808,4963390.080,1152.367,gs wet spot  
221,3631682.719,4963312.285,1151.587,gs wet spot  
222,3631583.212,4963304.414,1150.992,gs wet spot  
223,3631504.820,4963257.259,1150.570,gs wet spot  
224,3631499.534,4963172.304,1150.262,gs wet spot  
225,3631508.880,4963080.410,1150.449,gs wet spot  
226,3631552.129,4962993.690,1149.857,gs wet spot  
227,3631571.696,4962890.277,1151.158,gs wet spot  
228,3631493.104,4962875.245,1151.208,gs wet spot  
229,3631393.439,4962833.282,1149.851,gs wet spot  
230,3631375.198,4962764.643,1149.949,gs wet spot  
231,3631486.584,4962727.153,1150.673,gs wet spot  
232,3631572.453,4962706.699,1150.885,gs wet spot  
233,3631647.571,4962714.408,1151.434,gs wet spot  
234,3631678.861,4962745.830,1151.519,gs wet spot  
235,3631734.539,4962720.451,1151.354,gs wet spot  
236,3631723.136,4962670.689,1151.362,gs wet spot  
237,3631649.168,4962604.672,1150.678,gs wet spot  
238,3631518.485,4962589.726,1150.454,gs wet spot  
239,3631351.070,4962596.382,1150.135,gs wet spot  
240,3631265.821,4962559.494,1150.130,gs wet spot  
241,3631190.044,4962424.380,1150.164,gs wet spot  
242,3631123.824,4962342.360,1150.069,gs wet spot  
243,3631018.717,4962289.979,1150.699,gs wet spot  
244,3630890.074,4962274.364,1151.332,gs wet spot  
245,3630781.638,4962245.816,1152.480,gs wet spot  
246,3630714.315,4962249.089,1152.007,gs wet spot  
247,3630594.848,4962275.712,1151.381,gs wet spot  
248,3630489.304,4962279.710,1151.237,gs wet spot  
249,3630426.029,4962268.557,1151.401,gs wet spot  
250,3630366.003,4962232.347,1151.954,gs wet spot  
251,3630304.644,4962190.629,1153.296,gs wet spot  
252,3630300.226,4962189.208,1153.355,fnl e-w  
253,3630289.482,4962525.227,1149.042,fnl w-sw-ne  
254,3630477.367,4962661.698,1150.160,fnl n-sw-ne  
255,3631079.138,4963090.814,1147.852,gs prop ditch  
256,3630982.194,4963023.074,1147.559,gs prop ditch  
257,3630901.656,4962960.349,1147.630,gs prop ditch  
258,3630802.180,4962880.534,1148.986,gs prop ditch  
259,3630708.289,4962809.912,1149.480,gs prop ditch  
260,3630755.519,4962757.769,1147.494,eow

261,3630618.360,4962742.832,1150.220,gs prop ditch  
262,3630475.679,4962643.763,1149.377,gs prop ditch  
263,3630383.364,4962572.529,1148.441,gs prop ditch  
264,3630305.397,4962520.424,1148.651,gs prop ditch  
265,3630258.527,4962484.423,1147.657,gs prop ditch  
266,3630140.864,4962399.643,1148.731,gs prop ditch  
267,3630096.119,4962366.967,1149.329,gs prop ditch  
268,3629995.663,4962292.510,1148.757,gs prop ditch  
269,3629883.515,4962213.501,1150.340,gs prop ditch  
270,3629809.960,4962155.533,1147.410,gs prop ditch  
271,3629760.472,4962118.977,1145.120,gs prop ditch  
272,3629701.615,4962079.025,1144.265,gs prop ditch  
273,3629634.098,4962031.485,1144.459,gs prop ditch  
274,3629546.481,4961971.114,1143.303,gs prop ditch  
275,3629458.992,4961908.670,1142.190,gs prop ditch  
276,3629355.472,4961833.168,1141.060,gs prop ditch  
277,3629288.077,4961784.327,1141.415,gs prop ditch  
278,3629032.472,4961613.905,1147.825,fnl w-ne  
279,3629377.935,4961865.411,1142.907,fnl sw-ne  
280,3629586.543,4962014.477,1146.086,fnl sw-ne  
281,3629834.180,4962194.767,1149.621,fnl sw-ne  
282,3630003.407,4962318.082,1148.832,fnl sw-ne  
300,3629737.028,4962244.618,1146.788,GS FO  
301,3629822.903,4962308.404,1146.891,FNL RR  
302,3629791.707,4962284.913,1147.160,FNL RR  
303,3629758.052,4962260.329,1146.995,FNL RR  
304,3629753.034,4962225.981,1147.279,GS TILELOCATE  
305,3629774.811,4962248.609,1146.216,GS TILELOCATE  
306,3629802.148,4962282.548,1146.295,GS TILELOCATE  
307,3629810.400,4962298.964,1147.030,GS TILELOCATE  
308,3629822.735,4962312.159,1147.277,GS TILELOCATE  
309,3629859.081,4962343.846,1146.943,GS TILELOCATE  
310,3629870.624,4962355.908,1146.838,GS TILELOCATE  
311,3629891.427,4962375.437,1146.813,GS TILELOCATE  
312,3629925.863,4962404.629,1146.573,GS TILELOCATE  
313,3629938.454,4962416.585,1137.943,FL 18"CLAYTILE  
314,3629966.977,4962450.914,1146.365,GS TILELOCATE  
315,3630000.822,4962485.614,1146.076,GS TILELOCATE  
316,3630032.434,4962523.364,1146.174,GS TILELOCATE  
317,3630060.547,4962561.809,1146.201,GS TILELOCATE  
318,3630086.093,4962598.790,1146.213,GS TILELOCATE  
319,3630110.060,4962639.449,1146.103,GS TILELOCATE  
320,3630134.112,4962679.895,1146.022,GS TILELOCATE  
321,3630145.419,4962699.671,1138.867,FL 15"CLAYTILE  
322,3630165.561,4962736.783,1146.293,GS TILELOCATE  
323,3630184.950,4962772.002,1146.211,GS TILELOCATE  
324,3630209.546,4962815.860,1146.642,GS TILELOCATE  
325,3630233.486,4962858.464,1146.934,GS TILELOCATE  
326,3630260.767,4962906.353,1147.113,GS TILELOCATE

327,3630284.883,4962948.292,1147.262,GS TILELOCATE  
328,3630309.102,4962994.641,1147.441,GS TILELOCATE  
329,3630329.428,4963029.441,1147.266,GS TILELOCATE  
330,3630340.493,4963046.219,1139.845,FL 15"CLAYTILE  
331,3630387.704,4963129.871,1140.181,FL 15"CLAYTILE  
332,3630393.247,4963137.165,1146.271,GS TILELOCATE  
333,3630413.212,4963174.386,1146.167,GS TILELOCATE  
334,3630437.412,4963217.367,1146.018,GS TILELOCATE  
335,3630463.134,4963259.309,1146.716,GS TILELOCATE  
336,3630485.395,4963300.163,1146.670,GS TILELOCATE  
337,3630507.477,4963337.687,1146.238,GS TILELOCATE  
338,3630526.017,4963368.056,1146.568,GS TILELOCATE  
339,3630540.580,4963386.775,1146.581,GS TILELOCATE  
340,3630555.208,4963401.223,1140.781,FL 15"CLAY@BLOWOUT  
341,3630929.429,4963280.734,1143.344,FL INTAKE BEEHIVE  
342,3630928.602,4963282.665,1145.920,GS  
343,3631016.362,4963171.872,1146.759,FNL RR  
344,3631020.255,4963167.827,1142.396,FL 15"CLAYTILE  
345,3630999.195,4963158.235,1146.570,GS FO  
346,3630614.913,4963420.609,1145.835,GS TILE LOCATE  
347,3630650.646,4963417.231,1146.017,GS TILE LOCATE  
348,3630708.938,4963395.887,1146.757,GS TILE LOCATE  
349,3630756.966,4963375.972,1147.574,GS TILE LOCATE  
350,3630790.418,4963361.690,1141.512,fl clay 15"  
351,3630800.420,4963356.626,1146.844,GS TILE LOCATE  
352,3630850.131,4963334.822,1146.385,GS TILE LOCATE  
353,3630901.850,4963302.566,1146.282,GS TILE LOCATE  
354,3630917.044,4963287.278,1141.856,fl clay 15"  
355,3630925.850,4963277.378,1145.963,GS TILE LOCATE  
356,3630967.858,4963229.027,1146.672,GS TILE LOCATE  
357,3631010.898,4963176.712,1146.134,GS TILE LOCATE  
358,3631028.257,4963156.684,1146.702,GS TILE LOCATE  
359,3631042.449,4963139.401,1150.590,GS TILE LOCATE  
500,3630319.455,4960963.297,0.000,BEGIN TILE  
501,3630344.234,4961092.577,0.000,BEND  
502,3630409.169,4961196.450,0.000,BEND  
503,3630470.076,4961208.285,0.000,BEND  
504,3630544.528,4961230.310,0.000,BEND  
505,3630596.989,4961249.721,0.000,BEND  
506,3630664.031,4961273.580,0.000,BEND  
507,3630749.279,4961303.528,0.000,BEND  
508,3630794.479,4961322.000,0.000,BEND  
509,3630832.897,4961338.614,0.000,BEND  
510,3630873.005,4961361.299,0.000,BEND  
511,3630939.991,4961396.190,0.000,BEND  
512,3630995.298,4961430.039,0.000,BEND  
513,3631015.652,4961580.745,0.000,BEND  
514,3631020.416,4961924.501,0.000,BEND  
515,3631068.740,4962099.421,0.000,BEND

516,3631116.671,4962200.210,0.000,BEND  
517,3631154.417,4962279.105,0.000,BEND  
518,3631133.056,4962646.033,0.000,BEND  
519,3631082.553,4963080.673,0.000,END DRAIN TILE  
1000,3625017.390,4962657.209,1146.049,210 3/4IR .05DOWN  
1001,3625029.954,4961960.714,1131.714,546  
1002,3625031.685,4961958.973,1131.727,546  
1003,3625030.154,4961969.560,1131.797,324  
1004,3625029.548,4961995.440,1132.776,324  
1005,3625021.816,4961961.601,1131.443,324  
1006,3624993.540,4961967.562,1130.916,324  
1007,3625034.307,4961949.091,1130.282,324  
1008,3625040.798,4961908.694,1127.164,324  
1009,3625045.079,4961877.505,1125.553,324  
1010,3625045.238,4961877.064,1125.546,522 GS  
1011,3625045.360,4961877.180,1129.087,522 TOP WOOD  
1012,3625046.719,4961867.818,1129.045,522 TOP WOOD  
1013,3625046.759,4961867.029,1125.334,522 TOP WOOD  
1014,3625048.903,4961856.231,1125.174,522 TOP WOOD  
1015,3625050.675,4961848.412,1125.133,522 TOP WOOD  
1016,3625050.605,4961848.305,1129.065,522 TOP WOOD  
1017,3625053.053,4961836.093,1129.096,522 TOP WOOD  
1018,3625046.265,4961845.899,1128.735,522 TOP WOOD  
1019,3625051.946,4961831.063,1128.995,300  
1020,3625036.159,4961826.003,1127.640,300  
1021,3625032.893,4961816.643,1130.131,546  
1022,3625033.131,4961805.200,1131.143,324  
1023,3625034.215,4961803.838,1131.245,500 LN TO W  
1024,3625065.298,4961805.818,1130.506,300 CROPLN  
1025,3625050.827,4961785.674,1132.267,300 CROPLN  
1026,3625065.323,4961833.135,1127.581,300  
1027,3625063.685,4961852.471,1126.345,300  
1028,3625062.737,4961861.292,1125.598,300  
1029,3625060.437,4961877.899,1126.782,300  
1030,3625056.858,4961911.171,1127.334,300  
1031,3625054.506,4961936.730,1128.102,300  
1032,3625042.421,4961936.403,1129.784,300  
1033,3625066.022,4961957.856,1129.430,300 CROPLN  
1034,3625071.131,4961938.233,1128.573,300 CROPLN  
1035,3625091.944,4961940.716,1128.557,300 CROPLN  
1036,3625094.514,4961902.854,1127.290,300  
1037,3625098.332,4961877.286,1126.587,300  
1038,3625105.391,4961836.457,1128.477,300 CROPLN  
1039,3625152.592,4961845.593,1128.169,300 CROPLN  
1040,3625149.172,4961882.424,1126.971,300  
1041,3625147.197,4961902.390,1126.956,300  
1042,3625144.060,4961928.112,1127.700,300  
1043,3625140.677,4961956.790,1128.526,300 CROPLN  
1044,3625137.511,4961991.216,1129.160,300

1045,3625175.859,4962021.699,1129.639,300  
1046,3625201.548,4961991.205,1128.607,300 CROPLN  
1047,3625216.504,4961975.226,1127.974,300  
1048,3625228.920,4961963.105,1127.553,300  
1049,3625245.053,4961950.015,1128.842,300 CROPLN  
1050,3625243.389,4961918.221,1128.971,300 CROPLN  
1051,3625249.300,4961890.033,1128.958,300 CROPLN  
1052,3625239.795,4961872.892,1127.719,300  
1053,3625226.470,4961854.520,1128.009,300  
1054,3625211.928,4961833.142,1128.821,300 CROPLN  
1055,3625181.643,4961841.742,1128.459,300 CROPLN  
1056,3625187.740,4961880.298,1127.414,300  
1057,3625189.870,4961905.311,1127.250,300  
1058,3625188.112,4961932.354,1127.424,300  
1059,3625182.700,4961970.855,1128.478,300 CROPLN  
1060,3625220.554,4962012.987,1128.478,300 CROPLN  
1061,3625203.574,4962030.457,1129.422,300  
1062,3625232.734,4962002.292,1127.476,300  
1063,3625246.443,4961990.797,1127.601,300  
1064,3625254.355,4961985.477,1128.590,300 CROPLN  
1065,3625283.906,4961965.049,1129.512,300  
1066,3625319.618,4962003.137,1130.244,300  
1067,3625292.247,4962034.480,1128.656,300 CROPLN  
1068,3625285.011,4962044.932,1127.872,300  
1069,3625278.990,4962053.031,1127.745,300  
1070,3625268.286,4962065.806,1128.650,300 CROPLN  
1071,3625241.814,4962098.537,1130.291,300  
1072,3625283.311,4962133.302,1130.040,300  
1073,3625304.874,4962100.811,1128.922,300 CROPLN  
1074,3625313.669,4962088.395,1128.258,300  
1075,3625319.762,4962079.022,1128.229,300  
1076,3625326.999,4962069.430,1129.115,300 CROPLN  
1077,3625352.361,4962040.679,1130.772,300  
1078,3625403.197,4962064.532,1131.494,300  
1079,3625387.263,4962105.535,1129.688,300 CROPLN  
1080,3625383.734,4962115.072,1128.715,300  
1081,3625380.796,4962124.371,1128.711,300  
1082,3625373.255,4962139.797,1129.546,300 CROPLN  
1083,3625362.241,4962171.079,1130.807,300  
1084,3625405.987,4962187.361,1130.846,300  
1085,3625427.342,4962174.083,1130.205,300 CROPLN  
1086,3625412.094,4962165.171,1130.193,300 CROPLN  
1087,3625428.631,4962190.919,1130.629,300 CROPLN  
1088,3625442.926,4962165.234,1129.616,300  
1089,3625450.104,4962155.144,1129.400,300  
1090,3625459.070,4962139.185,1130.424,300 CROPLN  
1091,3625471.127,4962120.498,1131.182,300  
1092,3625506.947,4962139.522,1131.595,300  
1093,3625504.408,4962156.951,1131.374,300 CROPLN

1094,3625501.249,4962172.971,1130.919,300  
1095,3625499.380,4962184.387,1130.939,300  
1096,3625496.840,4962201.126,1131.324,300 CROPLN  
1097,3625477.678,4962200.871,1131.189,300 CROPLN  
1098,3625462.985,4962209.042,1130.855,300 CROPLN  
1099,3625450.680,4962209.493,1130.077,300  
1100,3625442.673,4962209.667,1129.961,300  
1101,3625429.582,4962210.879,1130.340,300 CROPLN  
1102,3625396.783,4962211.407,1131.647,300  
1103,3625389.531,4962257.060,1132.694,300  
1104,3625418.586,4962256.434,1131.086,300 CROPLN  
1105,3625431.851,4962255.964,1130.367,300  
1106,3625443.780,4962254.879,1130.284,300  
1107,3625455.841,4962254.465,1130.800,300 CROPLN  
1108,3625475.117,4962180.275,1130.473,300  
1109,3625456.064,4962166.152,1129.576,300  
1110,3625038.702,4961899.156,1126.709,323  
1111,3625028.376,4961911.768,1127.645,323  
1112,3625012.954,4961926.466,1128.494,323  
1113,3625024.427,4961939.847,1129.436,300  
1114,3625002.904,4961912.883,1124.044,300  
1115,3624997.377,4961902.236,1119.948,321  
1116,3625012.492,4961898.289,1120.901,321  
1117,3625024.025,4961890.041,1120.760,321  
1118,3625023.593,4961895.089,1121.866,501 DEAD ELM12"  
1119,3625027.229,4961888.003,1120.937,501 12"CHERRY  
1120,3625027.176,4961887.569,1120.891,501 6"HACK  
1121,3625032.737,4961885.744,1122.754,501 6"HACK  
1122,3625036.356,4961878.065,1121.826,501 6"BUCKBRUSH  
1123,3625032.853,4961874.267,1119.960,501 6"BUCKBRUSH  
1124,3625027.355,4961875.058,1118.839,300  
1125,3625030.583,4961879.567,1119.850,514  
1126,3625030.763,4961879.376,1121.819,513  
1127,3625026.271,4961880.796,1119.221,501 12"BOXELDER  
1128,3625035.735,4961880.384,1121.834,513  
1129,3625040.207,4961881.865,1123.161,300 BROKENCONC  
1130,3625042.005,4961876.993,1124.295,300 BROKENCONC  
1131,3625042.056,4961874.632,1123.927,501 4"PLUM  
1132,3625006.893,4961880.262,1120.119,323  
1133,3625005.989,4961878.933,1118.329,507  
1134,3625006.402,4961876.190,1118.520,507  
1135,3625007.047,4961874.462,1119.682,323  
1136,3625006.917,4961861.475,1120.869,300  
1137,3625007.488,4961851.771,1121.626,321  
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1140,3625037.923,4961863.025,1119.851,507  
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1142,3625025.689,4961871.725,1120.463,323

1143,3625019.901,4961885.150,1120.728,323  
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1153,3624995.464,4961881.229,1118.000,507  
1154,3624996.433,4961882.837,1117.926,507  
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1156,3624988.591,4961849.135,1123.700,300 WASHOUT  
1157,3624995.000,4961839.058,1128.060,323  
1158,3625015.358,4961825.799,1129.489,323  
1159,3625028.616,4961819.055,1129.928,323  
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1161,3625043.096,4961867.316,1129.282,522 TOP WOOD  
2000,3625434.754,4962214.215,1119.906,5+45.000 C  
2001,3625473.849,4962495.053,1119.906,8+35.000 C  
3000,3628242.374,4967262.461,1148.695,300 FL  
3001,3628242.829,4967269.666,1151.366,323  
3002,3628237.525,4967317.174,1152.082,300  
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3014,3628385.979,4967259.564,1146.537,300 FL  
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3045,3628626.891,4967258.598,1145.090,300 FL  
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3101,3628722.632,4967209.276,1143.122, TOP BEEHIVE  
3102,3628210.812,4967262.879,1151.489, IRS 1/2 .3DEEP  
3103,3628755.457,4967255.657,1143.780, FL RCP 18"  
3104,3628756.054,4967218.116,1144.772, TOP RCP BURIED  
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5292,3631262.220,4961671.022,1145.682,300 CL POND  
5293,3631222.237,4961554.182,1145.978,321 TERACE  
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5304,3630046.072,4961028.961,1127.851,300 FL CLAY TILE  
5305,3630055.745,4961078.336,1132.710,300 FL WASHOUT  
5306,3630075.102,4961058.215,1131.223,300 FL WASHOUT  
5307,3630076.431,4961056.054,1128.056,300 FL WASHOUT  
5308,3630078.966,4961059.438,1133.353,300  
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6001,3625150.044,4961963.337,1128.561,300 DRILL SEEDED  
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6011,3625428.696,4962202.723,1130.484,300 DRILL SEEDED  
6012,3625426.823,4962240.928,1130.564,300 DRILL SEEDED  
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6019,3625503.502,4962556.885,1132.695,300 DRILL SEEDED  
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6027,3625463.784,4962215.393,1130.770,300 DRILL SEEDED  
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6032,3625322.917,4962066.167,1128.943,300 DRILL SEEDED  
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7106, 3630758.687, 4961116.416, 1142.621, 300  
7107, 3630793.192, 4961118.565, 1143.503, 300  
7108, 3630800.259, 4961119.157, 1144.192, 300  
7109, 3630862.927, 4961124.663, 1143.718, 300  
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7114, 3630846.911, 4960968.489, 1143.915, 300  
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7116, 3630790.872, 4960942.073, 1143.615, 300  
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7126, 3630325.100, 4960835.214, 1127.470, 323  
7127, 3630314.380, 4960834.032, 1121.932, 321  
7128, 3630322.607, 4960869.712, 1127.841, 323  
7129, 3630313.029, 4960865.834, 1122.093, 321  
7130, 3630324.467, 4960910.507, 1128.207, 323  
7131, 3630314.992, 4960909.272, 1122.291, 321  
7132, 3630314.455, 4960963.297, 1125.404, 513 15  
7133, 3630315.352, 4960962.932, 1123.242, 321

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7135,3630313.418,4960778.747,1121.089,321  
7136,3630323.519,4960705.887,1126.459,323  
7137,3630311.627,4960706.207,1120.803,323  
7200,3630318.481,4960963.009,1125.105,960 10" spiral 0.87'toptofl  
7201,3630331.474,4960973.740,1129.299,300 tile locate  
7202,3630353.846,4960988.449,1129.257,300 tile locate  
7203,3630371.614,4961015.927,1130.037,300 tile locate  
7204,3630386.157,4961060.869,1132.443,300 tile locate  
7205,3630399.510,4961111.980,1134.938,300 tile locate  
7206,3630418.294,4961147.401,1136.395,300 tile locate  
7207,3630465.141,4961180.567,1137.244,300 tile locate  
7208,3630512.773,4961188.414,1138.467,300 tile locate  
7209,3630480.485,4961182.338,1139.323,300 field/terrace  
7210,3630551.787,4961190.102,1138.029,300 tile locate  
7211,3630311.645,4960961.487,1122.786,507 ditch  
7212,3630314.260,4960963.263,1125.430,960 12" spiral 1.07'toptofl  
7213,3630330.961,4960979.466,1129.358,300 tile locate  
7214,3630341.934,4960991.367,1128.936,300 tile locate  
7215,3630353.697,4961009.941,1129.627,300 tile locate  
7216,3630357.498,4961032.596,1130.259,300 tile locate  
7217,3630366.135,4961054.900,1131.121,300 tile locate  
7218,3630373.286,4961087.302,1132.591,300 tile locate  
7219,3630370.575,4961131.688,1132.868,300 tile locate  
7220,3630370.210,4961157.733,1132.621,300 tile locate  
7221,3630368.085,4961177.370,1133.395,300 tile locate wye connection 10" conc with  
10"clay sw-ne  
7222,3630386.808,4961196.715,1134.154,300 tile locate  
7223,3630422.109,4961213.068,1134.906,300 tile locate  
7224,3630481.269,4961222.149,1139.344,300 tile locate  
7225,3630523.029,4961220.663,1138.063,300 tile locate  
7226,3630478.478,4961221.290,1139.269,300 top terrace  
7227,3630373.644,4961087.280,1132.594,300  
7228,3630371.966,4961086.010,1128.955,513 se 10" 0.92'toptofl  
7229,3630373.485,4961085.856,1128.808,513 e 10" 0.92'toptofl  
7230,3630354.331,4961093.545,1131.283,300 tile locate  
7231,3630342.343,4961106.939,1130.652,300 tile locate  
7232,3630346.301,4961123.957,1131.185,300 tile locate  
7233,3630357.397,4961153.918,1132.366,300  
7234,3630358.024,4961155.758,1130.302,962 10" 0.94'toptofl  
7235,3630321.280,4961250.170,1138.296,324 e-w  
7236,3630325.407,4961054.173,1131.408,324 e  
7237,3631087.556,4963082.915,1142.478,963 8" 0.74'TOPTOFL  
7238,3631084.412,4963086.408,1142.458,963 8"  
7239,3631183.374,4963026.932,1148.082,300 tile locate  
7240,3631237.183,4963014.828,1148.351,300 tile locate  
7241,3631095.442,4963073.700,1143.257,962 8" 0.73'toptofl  
7242,3631099.644,4963068.995,1143.342,962 8" 0.73'toptofl  
7243,3631103.220,4963065.228,1143.367,962 8" 0.73'toptofl

7244,3631106.331,4963062.336,1143.449,962 8" 0.73'toptofl  
7245,3631111.984,4963057.780,1143.553,962 8" 0.73'toptofl  
7246,3631117.896,4963053.287,1143.572,962 8" 0.73'toptofl  
7247,3631249.567,4962662.998,1150.612,324 n side cut  
7248,3631214.897,4962662.932,1150.544,324 s side cut  
7249,3630532.112,4961189.744,1133.284,422 8" SWALL  
7250,3630564.543,4961192.889,1137.916,300 tile locate  
7251,3630540.482,4961190.473,1137.959,300  
7252,3630610.065,4961196.354,1138.181,300 TILE LOCATE  
7253,3630649.453,4961198.320,1138.669,300 TILE LOCATE  
7254,3630688.295,4961200.917,1138.684,300 TILE LOCATE  
7255,3630715.780,4961204.308,1139.002,300 TILE LOCATE  
7256,3630753.839,4961209.788,1139.441,300 TILE LOCATE  
7257,3630797.465,4961222.020,1142.433,300 TILE LOCATE  
7258,3630799.750,4961223.118,1143.676,300 TOP TERRACE  
7259,3630811.588,4961227.448,1142.617,300 TILE LOCATE  
7260,3630533.379,4961219.833,1133.435,TILE TOP 10" CLAY 0.94'TOPTOFL  
7261,3630557.030,4961221.387,1137.818,300 TILE LOCATE  
7262,3630589.553,4961219.252,1138.026,300 TILE LOCATE  
7263,3630621.631,4961217.593,1138.314,300 TILE LOCATE  
7264,3630797.563,4961323.028,1143.546,300 TOP TERRACE  
7266,3630338.306,4961136.723,1132.576,300 PROPOSED NEW TILE  
7267,3630356.004,4961176.326,1133.734,300 PROPOSED NEW TILE  
7268,3630380.246,4961204.293,1134.659,300 PROPOSED NEW TILE  
7269,3630419.232,4961222.552,1135.086,300 PROPOSED NEW TILE  
7270,3630332.919,4961107.762,1131.533,300 PROPOSED NEW TILE  
7271,3630330.424,4961053.999,1129.801,300 PROPOSED NEW TILE  
7272,3630313.858,4960970.489,1124.658,300 PROPOSED OUTLET  
7273,3630311.800,4960952.455,1122.780,507 CREEK  
7274,3631067.579,4963073.582,1143.168,962 7" 0.62'TOPTOFL  
7275,3631067.258,4963066.286,1143.213,962 7" 0.62'TOPTOFL  
7276,3631116.054,4963103.802,1143.780,962 7" 0.63'TOPTOFL  
7277,3631120.315,4963104.348,1143.763,962 7" 0.62'TOPTOFL  
7278,3630318.394,4961010.231,1124.658,300 PROPOSED NEW TILE END CMP  
7279,3630364.741,4961159.201,1132.404,2+00 HUB  
7280,3630346.097,4961067.884,1130.498,1+00 HUB  
7281,3630328.807,4960968.746,1129.196,0+00 HUB  
7282,3630596.409,4961252.945,1138.647,300 PROPOSED NEW TILE  
7283,3630545.208,4961240.220,1137.669,300 PROPOSED NEW TILE  
7284,3630479.600,4961231.881,1139.465,300 PROPOSED NEW TILE TOP TERRACE  
7286,3630319.984,4961010.049,1124.658,300 FIELD/GRASS  
7287,3630315.448,4960970.307,1124.658,300 FIELD/GRASS  
7288,3630312.960,4960970.520,1125.774,513 18" 1.51'toptofl outlet  
7289,3630317.905,4960990.133,1126.256,513 18"band 1.51'toptofl  
7290,3630323.005,4961009.503,1126.494,513 18" 1.51'toptofl  
7291,3630323.047,4961009.560,1126.520,510 15" 1.45'toptofl  
7292,3630324.794,4961016.595,1126.515,510 15" 1.45'toptofl  
7293,3630326.586,4961024.447,1126.630,510 15" 1.45'toptofl  
7294,3630328.074,4961031.982,1126.779,510 15" 1.45'toptofl

7295,3630329.855,4961040.225,1126.930,510 15" 1.45'toptofl .75" gap  
7296,3630330.996,4961048.121,1126.992,510 15" 1.45'toptofl 1" gap  
7297,3630331.737,4961056.198,1127.156,510 15" 1.45'toptofl .5" gap  
7298,3630332.433,4961064.199,1127.396,510 15" 1.45'toptofl 1.5" gap  
7299,3630332.615,4961072.153,1127.416,510 15" 1.45'toptofl  
7300,3630332.817,4961080.109,1127.653,510 15" 1.45'toptofl  
7301,3630429.340,4961208.870,1135.103,3+00 hub  
7302,3630332.868,4961087.750,1127.959,510 15" 1.45'toptofl  
7303,3630332.864,4961096.073,1128.124,510 15" 1.45'toptofl  
7304,3630333.078,4961103.946,1128.227,510 15" 1.45'toptofl  
7305,3630333.349,4961112.161,1128.394,510 15" 1.45'toptofl  
7306,3630333.574,4961120.245,1128.396,510 15" 1.45'toptofl  
7307,3630333.818,4961128.190,1128.656,510 15" 1.45'toptofl .75" gap  
7308,3630522.980,4961222.246,1138.027,3+95 hub  
7309,3630621.135,4961274.414,1139.510,5+00 hub  
7310,3631074.896,4963097.425,1147.594,300 locate lat 1 connection  
7311,3630995.878,4963147.861,1145.870,700 locate  
7312,3631011.901,4963160.900,1145.602,700 locate  
7313,3631026.444,4963172.455,1145.789,700 locate  
7315,3630333.851,4961136.229,1128.735,510 15" 1.45'toptofl 1" gap  
7316,3630334.004,4961142.958,1128.902,510 15" 1.45'toptofl 4" gap bend collar  
7317,3630367.836,4961184.917,1129.901,510 15" 1.45'toptofl  
7318,3631020.437,4963167.219,1143.627,962 14"  
7319,3631019.235,4963168.649,1143.729,962 14"  
7320,3629833.288,4958947.762,1154.036,CPT 3/4IRS .3DEEP  
7321,3630715.888,4961306.247,1140.839,6+00 hub  
7322,3630474.383,4961239.784,1137.349,300 PROPOSED TILE  
7323,3630521.833,4961255.774,1138.144,300 PROPOSED TILE  
7324,3630569.126,4961271.750,1138.751,300 PROPOSED TILE  
7325,3630616.518,4961287.777,1139.703,300 PROPOSED TILE  
7326,3630382.778,4961203.880,1130.276,510 15" 1.45'toptofl 1" W 2.5" E gap collar  
7327,3630389.031,4961208.740,1130.420,510 15" 1.45'toptofl 1" gap  
7328,3630395.638,4961213.228,1130.564,510 15" 1.45'toptofl 2" gap  
7329,3630402.723,4961217.099,1130.630,510 15" 1.45'toptofl 2.5" gap COLLAR  
7330,3630410.226,4961220.074,1130.853,510 15" 1.45'toptofl 1" gap  
7331,3630478.081,4961242.364,1139.482,300 top terrace  
7332,3630417.924,4961222.612,1131.035,510 15" 1.45'toptofl  
7333,3630445.105,4961236.290,1132.737,510 6" 0.54'toptofl  
7334,3630445.597,4961228.211,1132.342,510 6" 0.54'toptofl  
7335,3630433.224,4961227.430,1131.232,510 15" 1.45'toptofl  
7336,3630663.704,4961304.613,1141.222,300 PROPOSED TILE  
7337,3630711.102,4961320.466,1141.423,300 PROPOSED TILE  
7338,3630758.540,4961336.400,1141.423,300 PROPOSED TILE  
7339,3630806.086,4961352.401,1143.004,300 PROPOSED TILE  
7340,3630798.568,4961349.944,1143.818,300 top terrace  
7341,3630853.374,4961368.150,1141.558,300 PROPOSED TILE  
7342,3630900.725,4961384.083,1141.282,300 PROPOSED TILE  
7343,3630463.519,4961237.291,1131.939,510 15" 1.45'toptofl  
7344,3630471.111,4961236.400,1132.821,962 5" 0.46'toptofl

7345,3630469.826,4961242.766,1133.134,962 5" 0.46'toptofl  
7346,3630523.322,4961257.766,1135.506,421 4" sw perf squatted  
7347,3630517.698,4961250.595,1135.111,421 4" sw perf squatted  
7348,3630529.186,4961258.060,1135.453,421 4" sw perf  
7349,3630509.426,4961251.907,1132.747,510 15" 1.45'toptofl  
7350,3630538.667,4961257.023,1135.325,421 4" sw perf 0.3'toptofl  
7351,3630517.709,4961249.705,1134.955,421 6" sw perf 0.53'toptofl  
7352,3630524.601,4961257.005,1133.033,510 15" 1.45'toptofl  
7353,3630810.767,4961338.069,1142.706,7+00 hub  
7354,3630905.521,4961369.868,1141.509,8+00 hub  
7355,3630607.855,4961286.311,1134.676,510 15" 1.45'toptofl  
7356,3630614.675,4961288.665,1134.702,510 15" 1.45'toptofl grade change 1.85 TO .70  
7357,3630660.639,4961304.790,1135.090,510 15" 1.45'toptofl  
7358,3630469.741,4961242.449,1133.163,421 6" 45 snap coupler  
7359,3630470.702,4961239.995,1132.021,421 8" inserta tee  
7360,3630445.092,4961236.467,1132.894,421 8" dw nonperf  
7361,3630924.596,4961424.848,1141.705,300 PROPOSED TILE  
7362,3630951.247,4961470.415,1142.126,300 PROPOSED TILE  
7363,3630976.340,4961513.664,1142.553,300 PROPOSED TILE  
7364,3631001.535,4961556.807,1142.889,300 PROPOSED TILE  
7365,3630445.869,4961231.522,1131.575,top lateral tie in hole in 15" rcp  
7366,3630445.670,4961231.910,1132.004,421 8" 45 bend  
7367,3630445.592,4961232.631,1132.183,421 8" split band coupler  
7368,3630964.119,4961462.798,1142.048,9+00 hub  
7369,3631014.601,4961549.222,1142.722,10+00 hub  
7370,3630721.143,4961324.716,1135.571,510 15" 1.45'toptofl  
7371,3630534.017,4961257.598,1135.299,421 4" sw perf  
7372,3630526.923,4961257.161,1135.171,421 4" sw perf  
7373,3630521.133,4961255.370,1135.040,421 4" sw perf  
7374,3630782.368,4961344.815,1136.052,510 15" 1.45'toptofl  
7375,3631034.380,4961852.763,1146.133,13+00 hub  
7376,3631033.030,4961752.821,1144.990,12+00 hub  
7377,3631031.605,4961652.842,1143.682,11+00 hub  
7378,3630828.068,4961360.139,1136.265,510 15" 1.45'toptofl  
7379,3630373.308,4961083.365,1128.731,510 10" 0.89'toptofl  
7380,3630373.390,4961087.438,1128.847,510 10" 0.89'toptofl  
7381,3630368.249,4961088.084,1129.278,510 10" 0.89'toptofl  
7382,3630873.418,4961376.027,1136.667,510 15" 1.45'toptofl  
7383,3630914.566,4961392.259,1138.243,962 10"  
7384,3630907.303,4961383.619,1138.175,962 10"  
7385,3630891.780,4961386.650,1139.016,421 4" sw perf  
7386,3630903.796,4961386.434,1136.952,510 15" 1.45'toptofl COLLAR  
7387,3630907.832,4961392.256,1136.944,510 15" 1.45'toptofl  
7388,3630930.538,4961434.528,1137.257,510 15" 1.45'toptofl  
7389,3630954.058,4961469.165,1139.636,421 4" sw perf  
7390,3630953.625,4961477.172,1137.751,510 15" 1.45'toptofl  
7391,3630976.286,4961519.126,1137.991,510 15" 1.45'toptofl  
7392,3630999.881,4961561.319,1138.193,510 15" 1.45'toptofl  
7393,3631015.677,4961589.220,1138.489,510 15" 1.45'toptofl collar

7394,3631023.123,4961591.340,1140.183,421 5" sw perf plugged  
7395,3631012.360,4961612.541,1140.447,421 5" sw perf  
7396,3631016.243,4961604.853,1138.583,510 15" 1.45'toptofl  
7397,3631016.453,4961637.119,1138.821,510 15" 1.45'toptofl  
7398,3631016.588,4961653.033,1138.946,510 15" 1.45'toptofl  
7399,3631016.716,4961717.139,1139.301,510 15" 1.45'toptofl  
7400,3631017.118,4961749.301,1139.548,510 15" 1.45'toptofl  
7401,3631079.800,4962039.340,1148.553,15+00 hub  
7402,3631017.804,4961805.365,1139.925,510 15" 1.45'toptofl  
7403,3631042.441,4961947.910,1147.324,14+00 hub  
7404,3631115.224,4962132.925,1149.741,16+00 hub  
7405,3630373.244,4961084.177,1128.755,421 dw 10"\*10"\*10" wye  
7406,3631018.246,4961845.588,1140.186,510 15" 1.45'top to fl grade change .7% to  
.19%  
7407,3631105.534,4962824.756,1147.810,300  
7408,3631096.569,4962924.432,1148.008,300  
7409,3631087.621,4963023.977,1148.625,300  
7410,3631085.306,4963047.444,1147.562,300  
7411,3631083.052,4963074.673,1148.052,300  
7412,3631018.650,4961917.821,1140.853,510 15" 1.45'top to fl collar  
7413,3631024.595,4961940.585,1140.899,510 15" 1.45'top to fl  
7414,3631150.552,4962226.456,1151.950,17+00 hub  
7415,3631164.984,4962329.657,1150.971,18+00 hub  
7416,3631156.035,4962429.238,1149.214,19+00 hub  
7417,3631147.076,4962528.836,1148.443,20+00 hub  
7418,3631040.812,4961986.144,1140.937,510 15" 1.45'top to fl  
7419,3631087.242,4962105.672,1141.175,510 15" 1.45'top to fl  
7420,3631099.148,4962135.628,1141.210,510 15" 1.45'top to fl  
7421,3630949.332,4961468.404,1137.444,421 8" inserta tee  
7422,3630949.802,4961468.136,1137.644,421 6" 45 bend  
7423,3630953.680,4961468.883,1139.741,421 6"/5"/4" reducer  
7424,3630953.246,4961468.615,1139.609,421 6" 45 bend  
7425,3631012.792,4961611.775,1140.424,421 5"/6" reducer  
7426,3631016.019,4961609.642,1138.543,421 8" inserta tee  
7427,3631015.265,4961609.729,1139.177,421 6" 45 bend  
7428,3631102.435,4963026.851,1147.726,25+00 hub  
7429,3631111.408,4962927.223,1148.109,24+00 hub  
7430,3631120.295,4962827.630,1148.280,23+00 hub  
7431,3631129.216,4962728.032,1148.120,22+00 hub  
7432,3631138.172,4962628.444,1148.519,21+00 hub  
7433,3630881.541,4961373.384,1141.268,300 2.7'to top 4"sw perrf tie approx  
7434,3631133.620,4962225.314,1141.418,510 15" 1.45'top to fl  
7435,3631150.700,4962269.982,1141.447,510 15" 1.45'top to fl BEND COLLAR  
7436,3631150.496,4962350.583,1141.582,510 15" 1.45'top to fl  
7437,3631151.394,4962318.564,1141.500,510 15" 1.45'top to fl  
7438,3631143.984,4962365.347,1149.808,300 START ROCK S SIDE TRENCH  
7439,3631148.514,4962382.589,1141.702,510 15" 1.45'top to fl  
7440,3631141.049,4962403.888,1148.956,300 END ROCK S SIDE TRENCH  
7441,3631138.054,4962494.620,1141.893,510 15" 1.45'top to fl

7442,3631154.307,4962364.488,1142.401, TOP 8" HDPE  
7443,3631132.003,4962494.604,1148.294,GS STARTED GRAEL BED  
7444,3631129.858,4962523.077,1145.054, TOP 6" CLAY  
7445,3631133.982,4962526.293,1141.934,510 15" 1.45'top to fl  
7446,3631126.433,4962538.057,1147.330,GS END BEDDING  
7447,3631122.615,4962613.916,1142.075,510 15" 1.45'top to fl  
7448,3631118.119,4962661.880,1142.181,510 15" 1.45'top to fl  
7449,3631108.449,4962680.188,1148.105,GS STARTED GRAVEL BED  
7450,3631117.254,4962609.635,1148.340,GS CUT TILE UNKOWN  
7451,3631114.912,4962701.923,1142.316,510 15" 1.45'top to fl  
7452,3631103.076,4962768.535,1148.018,GS END BEDDING  
7453,3631103.599,4962829.748,1142.408,510 15" 1.45'top to fl  
7454,3631093.947,4962854.153,1148.081,GS STARTED GRAVEL BED  
7455,3631093.614,4962877.879,1148.310,GS END BEDDING  
7456,3631098.135,4962893.433,1142.655,510 15" 1.45'top to fl  
7457,3631091.986,4962902.158,1147.815,BEGIN GRAVEL BEDDNG  
7458,3631086.368,4963084.282,1142.553,FL 8" VCP  
7459,3631096.264,4962918.061,1142.641,510 15" 1.45'top to fl  
7460,3631089.725,4962921.325,1148.249,GS END BEDDING  
7461,3631089.006,4962963.984,1147.666,BEGIN GRAVEL BEDDNG  
7462,3631093.873,4962966.056,1142.692,510 15" 1.45'top to fl  
7463,3631083.836,4963039.881,1147.614,GS END BEDDING  
7464,3631089.778,4963038.272,1142.819,510 15" 1.45'top to fl  
7465,3631088.748,4963054.184,1142.823,510 15" 1.45'top to fl  
7466,3631087.869,4963072.452,1146.210,JUNCTION STRUCTURE RIM  
7467,3631016.186,4962479.206,1147.096,GS TILE LOCATE  
7468,3631041.100,4962460.769,1147.208,GS TILE LOCATE  
7469,3631062.671,4962445.587,1147.338,GS TILE LOCATE  
7470,3631088.816,4962422.367,1147.917,GS TILE LOCATE  
7471,3631116.562,4962401.154,1148.547,GS TILE LOCATE  
7472,3631205.523,4962144.301,1149.885,GS TILE LOCATE  
7473,3631206.781,4962174.866,1150.078,GS TILE LOCATE  
7474,3631209.169,4962205.394,1150.226,GS TILE LOCATE  
7475,3631210.175,4962231.129,1150.511,GS TILE LOCATE  
7476,3631212.083,4962254.898,1150.901,GS TILE LOCATE  
7477,3631207.948,4962282.979,1151.320,GS TILE LOCATE  
7478,3631193.777,4962313.291,1151.249,GS TILE LOCATE  
7479,3631180.836,4962329.764,1150.782,GS TILE LOCATE  
7480,3631154.134,4962364.503,1142.456,500 HDPE 8 TOP  
7481,3631149.707,4962367.616,1141.597,500 CONC 15 TOP  
7482,3631146.066,4962374.585,1142.425,500 CONC PLUG  
7483,3631139.212,4962530.832,1145.198,VCP 6 TILE  
7484,3631133.359,4962529.114,1141.973,500 TOP 15 CONC  
7485,3631129.083,4962522.095,1145.306,CONC PLUG  
7486,3631126.759,4962611.213,1144.590,HDPE 6 TOP  
7487,3631123.046,4962610.392,1142.117,500 CONC 15 TOP  
7488,3631120.154,4962611.365,1144.561,CONC PLUG  
8016,3618659.060,4946889.650,1169.720,GPS MON  
8016\_GNSS,3618659.060,4946889.650,1169.720,Autonomous Setup

## 2021 Drainage Assessments

District	Fund#	Amount Needed	Amount Levied	% Levied	Waivers
DD DD38	51063	\$ 23,837.68	\$ 26,000.00	225.746%	10 Year
DD DD41	51066	\$ 63,388.96	\$ 66,500.00	1034.791%	10 Year
DD DD52	51078	\$ 57,340.31	\$ 60,000.00	1870.213%	10 Year
DD DD77	51106	\$ 70,869.60	\$ 73,500.00	2966.377%	10 Year
DD DD 123 MAIN	51138	\$ 45,101.29	\$ 48,000.00	12.600%	10 Year
DD DD 124	51139	\$ 22,675.44	\$ 25,000.00	282.355%	10 Year
DD DD146	51158	\$ 3,584.23	\$ 6,000.00	53.357%	10 Year
DD DD 167	51191	\$ 56,936.44	\$ 60,000.00	1339.136%	10 Year
DD DD JT BIG 4 MAIN	51193	\$ 84,153.60	\$ 87,000.00	172.766%	10 Year
DD DD JT BIG 4 LAT 4	51197	\$ 1,738.75	\$ 4,000.00	110.616%	10 Year
DD DD148 (TRUSTEE)	51160	\$ 55,456.26	\$ 58,000.00	280.684%	10 Year
DD DD165 (TRUSTEE)	51180	\$ 6,496.88	\$ 9,000.00	169.861%	10 Year
DD DD 67 SUB OF 3 (TRUSTEE)	51097	\$ 65,000.00	\$ 65,000.00	6286.644%	10 Year
DD JT H-H 104-222	51224	\$ 421.96	\$ 421.96	7.000%	10 Year
DD JT H-H 118-232	51226	\$ 7,354.20	\$ 7,354.20	64.000%	10 Year

\$ 595,776.16

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Approved Date

\_\_\_\_\_  
BJ Hoffman, Chairperson

\_\_\_\_\_  
Renee McClellan, Supervisor

\_\_\_\_\_  
Lance Granzow, Supervisor