

AGENDA
REGULAR DRAINAGE MEETING
Wednesday, May 20, 2020 9:30 AM
Large Conference Room

County Buildings are closed to the public due to Covid-19 concerns, this meeting will be open to the public via conference call only. The meeting date and time will remain the same. You may call at that time to access the hearing by following the instructions below:

To access the meeting call: **1-(312)-626-6799**, when prompted enter meeting ID code: **662 016 552**

You can also access the meeting online at:

<https://zoom.us/j/662016552>

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

Documents:

[05_13_20 - DRAINAGE MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[PAYABLES-DRAINAGE PUBLICATION 05_22_20.PDF](#)

5. DD 25 Lat 3 & DD 1 Main Tile - Discuss W Possible Action - Change Order No. 3

Documents:

[DD 25 - 6501 - ENGR AND CONTRACTOR SIGNED CHANGE ORDER NO. 3.PDF](#)

6. DD 31 WO 278 - Discuss W Possible Action - Repair Summary

Documents:

[DD31 WO278 - REPAIR SUMMARY - ABRIDGED 05_18_20.PDF](#)

7. DD 68 WO 293 - Discuss W Possible Action - Investigation Summary

Documents:

[DD68 WO293 -INVESTIGATION SUMMARY 05_18_2020.PDF](#)

8. DD 124 - WO 259 - Discuss W Possible Action - Investigation Summary

Documents:

[DD124 WO259 REPAIR SUMMARY ABRIDGED 05_13_20L.PDF](#)

9. DD 128 WO 279 - Discuss W Possible Action - Investigation Summary

Documents:

[DD128 WO 279 - INVESTIGATION SUMMARY 05_19_20.PDF](#)

10. DD 158 WO 285 - Discuss W Possible Action - Investigation Summary

Documents:

[DD158 WO285 INVESTIGATION SUMMARY 05_13_20.PDF](#)

11. DD Big 4 WO 292 - Discuss W Possible Action - Investigation Summary

Documents:

[DD BIG 4 WO292 INVESTIGATION SUMMARY 05_13_20.PDF](#)

12. DD H-F 2 WO 286 - Discuss W Possible Action - Investigation Summary
DD H-F 2 WO 286 - Landon Aldinger's Work Order request was for investigation on parcel in H-F2 in Hardin County. Investigation Summary has been received and sent on to Franklin County, which is the control county on this joint DD.

Documents:

[DD H-F2 WO 286 INVESTIGATION SUMMARY 05_14_20.PDF](#)

13. Discuss W Possible Action - IRUA Correspondence

14. DD Big 4 Main - Discuss W Possible Action - Tree Removal
DD Big 4 Main - Landowner Jim Cleveland requests clarification on tree removal on main open ditch.

15. Other Business

16. Adjourn Meeting

REGULAR DRAINAGE MEETING
Wednesday, May 13, 2020 9:30 AM
This meeting was held electronically due to Covid-19 concerns.

5/13/2020 - Minutes

1. Open Meeting

Hardin County Drainage Trustee Chairperson Lance Granzow opened the meeting. Also in attendance were Trustee BJ Hoffman; Trustee Renee McClellan; Jessica Sheridan, Environmental Health; Angela De La Riva, Economic Development; Lee Gallentine of Clapsaddle-Garber Associates; and Denise Smith, Drainage Clerk.

2. Approve Agenda

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

3. Approve Minutes

Motion by McClellan to approve the minutes to Drainage Meetings dated 4-22-2020 and 5-6-2020. Second by Hoffman. All ayes. Motion carried.

4. Approve Claims For Payment

No claims for payment were presented. Claims will be on next week's agenda, due to an issue with Tyler software update, Smith was unable to process this week's packet.

5. DD 14 WO 290 - Discuss W Possible Action - Investigation Summary

DD 14 WO 290 - Gallentine stated Dave Sweeney tenant, reported on Cynthia loger's parcel that there was some sinkholes along the main tile route, originally there were two sinkholes reported, there are actually 3 sinkholes found upon investigation. There is cracked and collapsed clay tile at the bottom of each sinkhole. Gallentine continued that normally CGA would recommend this going straight to the lottery system, except in this case there has been 7 sinkholes and blowouts in 3 years, and one included monitoring of a road crossing instead of replacing it. Per CGA's previous recommended action, CGA recommended a large scale investigation, including televising, which would be justified if more blowouts occurred. Gallentine asked if the Trustees wanted to just do repairs or look at a larger scale investigation, if we do televise we could use the sinkholes as camera access points while CGA is there. Hoffman asked what the turn around time is to get things televised right now. Gallentine stated he would have to talk to Paul Williams, the in county contractor has now acquired a camera system about a month ago, Gallentine thought Williams could be available within a week or two. McClellan stated maybe it should be televised, Gallentine stated we should televise from the access points we have with the sinkholes, Hoffman concurred.

Motion by Hoffman to instruct CGA to contact Williams Excavation and have them televise and report back findings, in the event that Williams does takes enough equipment out, Williams can do the repair work while on site. Second by McClellan.

In additional discussion on the motion, Granzow stated he was unsure if this location is in a proposed wind turbine construction area or not, and if they are, we could have the CWEC's televise it at their expense, but that may be too distant in the future. McClellan stated the CWEC may argue that the issues were there before they were. Gallentine asked if Paul is not available to do the repair work while he televises it, would it be put into the lottery system. Hoffman stated if Williams just wants to televise and is ok with handing the repair off to someone else in the lottery that is acceptable also.

All ayes. Motion carried.

6. DD 14 WO 291 - Discuss W Possible Action - Investigation Summary

DD 14 WO 291. Gallentine stated this is also on DD 14 Main downstream of the sinkholes and blowouts reported on WO 290. This is at the intersection of HWY S 27, and D 41, south of Buckeye, in that intersection there is some restricted drainage on the main and lateral 2. The landowners had Sheldahl's out and they could not find the source of the issue. Gallentine stated CGA recommends going out and doing some exploratory diggings to see if the cause can be isolated, and recommends putting the work order into the lottery system. Gallentine noted that this area has had several utilities run through it in recent years, rural water, and possibly Radcliffe Telephone have installed in the last few years. Gallentine stated it is unclear if those utilities may have had any impact, and that is why they recommend exploration.

Motion by Hoffman to utilize CGA's guidance and put it into the lottery system for repair with careful, implicit instructions that CGA's observer monitor for any issues with recent utility installations. Second by McClellan.

In additional discussion on the motion, Granzow asked if crops are planted in this field. Gallentine replied he believes crops have been planted and access should be able to be made from the road ditches for the most part. Granzow would hate to do a full scale investigation on a planted field. Gallentine agreed and expressed concern that if we don't do an investigation, what will be the effects on all the fields upstream of the issue. Gallentine stated part of the SE quadrant is in grass.

All ayes. Motion carried.

7. DD 167 WO 208 - Discuss W Possible Action - Repair Summary

DD 167 WO 288 - Smith provided the Trustees a paper copy of the repair summary for review as the file was too large to send in an email, so the abridged version is on our agenda documents. Gallentine stated this district is west of New Providence, in land owned by Neil Martin, in this area there are shallow tile with two parallel mains that run next to each other, instead of a singular main. We had gone through some hearings in which the landowners did not want to spend money on a large project and we did a temporary repair. Due to the size, the only material available was dual wall, so that is what we used, but it is definitely too shallow to meet the dual wall install guidelines. Gallentine stated it is repaired right now, but Gallentine's concern is that the way it is repaired right now is not sustainable. CGA recommends again that we hold a hearing concerning the Engineer's Report, but Gallentine doubts anyone's attitude has changed, so it is the Trustees call on what they would like to do.

Granzow acknowledges the recommendation, but does not know that a public hearing at this time will change anyone's mind until the tile blows out again. Gallentine respects that, and the Engineer's Report is good for ten years, the Trustees have had the Engineer's Report for at least two years, so there is still eight years left that the report is good for. Granzow stated we should put a flag once more on the Drainage Calendar for six years from now, and the Trustees at that time can make a decision, unless something changes in the meantime.

Motion by Hoffman to acknowledge the repair summary documents for DD 167, WO 208 presented by CGA on May 12, 2020. Second by McClellan. All ayes. Motion carried.

8. DD 55-3 Lat 12 WO 201 - Discuss W Possible Action - Update

DD 55-3 Lat 12 - WO 201 - Gallentine stated that he and Smith wanted to provide an update. This is the tile on Larry Hindeman's property, this is where there are some large cottonwood trees on the west side near the tracks, and there is a small tree on the east side and we have tried to televisize this before and we couldn't get anything done on the televising due to tree roots in the tile. We did get a permit to jet clean the tile and then televisize from the RR. The permit expires June 10, 2020 and Adam Seward is assigned to this work order, and he is planning on doing the work on May 20th of this year. Gallentine stated he spoke with Seward, and Seward was having a hard time getting in touch with someone to do the jet cleaning and televising so Gallentine put Seward in touch with Paul Williams, and they will work together on this. Gallentine stated the Railroad's paper work is a beast to get through and Seward was a little overwhelmed by it, and Gallentine does not blame him. Gallentine went on that the other thing that did not help the situation, was that the Railroad was using a wrong folder number, the Railroad was using a folder number from DD 25 on McDowell's project and thought it was this one, so the RR was talking to Seward about jack and bore and replacing the pipe and this project does not involve any of that. Gallentine stated as of right now we are lined up to do it on the 20th, but we are brushing up tight up against that deadline.

Smith stated she had had a couple of conversations with Seward, and Seward was just very concerned about getting the paperwork done in a timely manner, especially his work plan document, which included a lot of language that just does not apply on this project. Smith stated she and Gallentine had provided clarification on that, and Gallentine has been very helpful in getting it ready for submission to RailPros. Smith stated she is glad that Seward is concerned enough to reach out and ask questions, and hoped that with this assistance he would get his documents turned in to RailPros. Gallentine stated that open communications are key on a project like this. Granzow stated he knows that Seward is a different kind of contractor and is glad he is utilizing the tools around him to try and get the job done, whether that be the Engineer, Drainage Clerk, or the Trustees, and appreciated that Seward's main concern is making the work happen. Gallentine stated when he mentioned to Seward that he could use Paul Williams, and Williams is an in county contractor, Seward said he would like to support Williams, who is a close by, local in county contractor.

9. DD 122 & DD 8 Lat 2 Warranty Review - Discuss W Possible Action

DD 122 & DD 8 Lat 2 - Smith had reached out to landowner Marv Kramer to see if he had any feedback on this warranty review, but Kramer is in the field at this week, and Smith left this on the agenda in hopes she would have

heard back from Kramer by the time of the meeting. If Smith does not hear from Kramer in the next few days, she will reach out to him again and put this back on the agenda. Granzow stated that Kramer may have feedback after being out in the field for observation.

10. Discuss W Possible Action - IRUA Correspondence

IRUA Correspondence - Landowner Kiele Rolph has requested service from the IRUA for rural water, Matt Mahler of the IRUA has officially requested permission on behalf of the IRUA for connection. Smith has forwarded these requests on to attorney Mike Richards, Richards has been our contact person for issues with the IRUA, Smith has not had a reply back yet from Richards. Smith wanted the Trustees to be aware of the request, there is no tile in the immediate vicinity of the install although it does lie within a drainage district. Smith asked for for direction, if the Trustees would like Smith to reply to Mahler or if the Trustees would prefer Richards contact Mahler, Smith could let Mahler know a response would be forthcoming. The landowner has emailed Smith directly as well and wants to know why we had a cease and desist order in place for the IRUA, and what can she do to get clean water for her family. McClellan stated she had someone else mention that they were waiting for a rural water connection as well. Gallentine stated it does not appear that they are crossing district tile by any means, but looking at the proposed drawing submitted by the IRUA, they are putting in a 6" line for service, which would provide service to that acreage, but that 6" line is far more capacity than that acreage needs, it looks like they are laying it down for a future larger system, which is fine, but worth noting.

McClellan stated she thinks we still need to wait for Richards reply, as this is not in litigation at this point, but at some point in the future, it could be. Hoffman stated he felt no action today is enough for him on this. Granzow does not disagree and is ok not moving forward today, but feels there is a responsibility to issue a response to the landowner, and feels the responsibility to the landowner for water, as he assumes the water has failed for a couple of years by now. Smith stated that Rolph stated she has struggled to get clean water on the acreage for awhile. Granzow stated that IRUA needs to own up to the issues they have created at some point as well, and Granzow thinks we need to look at some kind of special acceptance to this acreage because of this water quality issue. McClellan asked if this could be handled under a utility permit, that this could be reviewed and approved on a case by case basis, even if they do not impact a drainage tile. Granzow stated that he feels they could do that but perhaps a letter from the DNR regarding the water quality at issue would push him farther in that direction. McClellan respects that she does not want to deny this families access to clean water. Granzow stated that he would like to see additional documentation from the DNR or the Board of Health, rather than just the IRUA letter, it is not that he is trying to make the landowner go through unnecessary steps, but rural water installations going through drainage districts is not working well for the IRUA. McClellan asked if we could bring in Jessica Sheridan as Environmental Health/Sanitarian for her thoughts on this. Hoffman would rather be compelled by the DNR, Board of Health or Jessica Sheridan. Granzow concurs, before he even considers lifting the cease and desist order. Hoffman stated he would rather say we did thus because of the Board of Health or DNR than just because, and feared this would find us in litigation.

Jessica Sheridan joined the meeting. Smith explained that we have had a landowner request water service with the IRUA, and the IRUA has submitted a request to us, they are not crossing any drainage districts, however we have been in dispute with the IRUA for quite some time on other work that they have done in drainage districts. Smith stated we are waiting on a reply from our drainage attorney, however we are asking for Sheridan's input on if Rolph's water can be tested. Sheridan stated she has tested Rolph's water before, and there are high arsenic levels. Sheridan did suggest to Rolph that rural water may be an option, and at the time she did testing the cost to hook up to rural water was around \$2,000. Sheridan stated the solution to high arsenic levels is to install a reverse osmosis water filtration system, and it would not take long for the landowner to reach that \$2,000 level with the instal of a reverse osmosis system especially if you take into consideration the cost of filter over the life of the system. Sheridan stated since there was the availability of rural water, she suggested it as the best option.

Hoffman asked with our cease and desist with the IRUA, if we get a statement from Sheridan or the Board of Health to compel us to allow service installs by IRUA on a case by case basis, due to health reasons, would that be adequate to approve the permit. McClellan agrees, but wonders if we should run it by Richards, and County Attorney Meyer, so as to avoid it becoming an issue for litigation. Sheridan stated the next Board of Health meeting is next month, but Sheridan could write a letter explaining the testing and test results in this case. Granzow stated it should be reviewed by the Board of Health, and recommended by the Board of Health to the Trustees. Granzow stated perhaps we should get a legal opinion, as we want to take care of our constituents, but dealing with this company at this point, may not be taking care of our constituents at all.

Motion by McClellan to have attorney Mike Richards review the matter and seek a letter from Jessica Sheridan recommending the option of rural water for the Rolph family if Richards thinks this is appropriate in this case. Second by Hoffman.

In additional discussion, Smith asked if the Trustees would like her to reach out to the Rolph family and Matt Mahler of the IRUA and let them know their request is in process, and we are waiting on a response from Mike Richards, so that their emails have been acknowledged.

All ayes. Motion carried.

11. DD 52 WO 215 - Discuss W Possible Action - Claim For Crop Damages

DD 52 WO 215 - Smith received a phone call from landowner Shaun Piel, who had asked for an update on the status of tenant Tracy Below's claim for crop damages. Smith shared this with the Trustees in an email. Smith stated she explained to Piel the conversations we have had recently regarding Below's claim and that the Trustees had motioned to reseed 3.5 acres of alfalfa, Piel stated he was hoping there would be a monetary claim that he could possibly recoup some of his losses because Below was behind in his rent on the land. Piel felt that a 15% loss on the 2019 crop yield would be appropriate, and that Piel is in the process of selling the land and the new owner would likely be ok with alfalfa seeding. Smith stated she has brought this to the Trustees attention as it is a small piece in the puzzle of the larger conversation we had recently about landowner responsibility on this claim. Smith informed Piel she would present it to the Trustees for discussion.

McClellan stated she feels Piel is the responsible party for the damages. Granzow asked if Piel was aware that he would be the one paying the crop losses later as part of an assessment on the district. Smith stated if Piel sells his property before assessments are done on DD 52, then he would not pay any of the costs of the claim and would have no financial culpability for it. McClellan stated she did not feel the Trustees were responsible for paying the landowners bills on this. Smith stated if Below is behind on his rent on this parcel, it may be in part Piel's responsibility and lack of action on tree removal. McClellan stated perhaps we should have attorney Meyer draw up a letter to landowner Piel stating their position. Granzow asked what is the cost 15% of this crop, although we have set no dollar amount to it, or could we give the amount of the cost of seeding. Smith asked if this has gone on to lottery yet for reseeding, as Smith had spoken with contractor Seward on this, and Seward had spoken with Below who did not want to reseed to alfalfa, because alfalfa on alfalfa year after year is toxic, so Below hoped for another crop to be seeded in. Gallentine stated he has not done anything with it yet in lottery. Smith stated perhaps this was just a conversation between Below and Seward. Granzow stated it is not alfalfa currently as it is still torn up, you can't interplant alfalfa, this would be reseeding on dirt. Granzow stated if this case is seeding the alfalfa or paying the tenant the cost of seeding he has no preference but the claimant would have to sign off on it, and he does not think the tenant or Piel would care, as Piel is looking for a cash value, instead of selling an alfalfa field. Hoffman preferred to stick with the original decision. Granzow stated we can either reseed it or pay the value of he cost of reseeding through a contractor in the lottery system, we pay them the value to the tenant who made the claim. McClellan stated it was Below's crop and the trees were the landowner's responsibility.

Motion by McClellan to approve paying the cost of reseeding to the tenant. Second by Hoffman.

In additional discussion on the motion, Granzow asked at what value are assigning to the reseeding to be paid to the tenant, it was agreed by the Trustees that the cost should be based on what it would cost us to reseed it through the contractor lottery, and that the tenant needs to sign off on why the reseeding was being paid in this way. McClellan asked if the acres that were damaged have been verified. Gallentine stated CGA could verify the acres that were damaged, and obtain a cost for seeding from contractor Seward as he is familiar with the project. The Trustees agreed that Seward could provide an estimate.

All ayes. Motion carried.

12. Other Business

2020 Drainage Assessments - Smith provided an update on 2020 Drainage Assessments. Smith prepared assessment notices, and sent them out, but missed checking a box in the process on one district so the billing number was not on those notices. Smith will have to rerun those notices so that the billing number is added and the Treasurer can use that billing number to allow landowners to make payments online. Smith had also entered the due date on Tyler software incorrectly, Smith had entered it as 10/1/2020 rather than 9/30/2020, this shows one day of interest on the totals for the Treasurer's tax list. Smith spent some time on the phone with Tyler to correct the errors, and the new notices report would not print, so Tyler is assisting to see if the report can be printed. Smith is in the process of correcting her errors, and when new notices are printed, Smith will mail those out with a letter to landowners explaining that they are not being billed twice, and the new notice is only to correct the due date and missing billing numbers, and they may disregard the new notice if they have already made payment. For the landowners who have already made their payment, the Treasurer's office is holding those payments until the new notices are sent out, so they will enter the payments all at once. Smith stated both the Treasurer, Machel Eichmeier, and previous clerk Becca Junker have been wonderful to work with and she is thankful for their help. Smith wanted to share this with the Trustees so that if they should receive calls or

comments on a second notice and letter being sent out, that they know this is to correct Smith's error, and no other action should be needed. Smith stated it has been a learning curve for her, and is glad to have learned how to correct her error. Hoffman appreciated the great communication, and always feels updated for the meetings. Smith appreciated the Trustees help and them as a resource to help her learn through the process.

Performance Reviews - Granzow stated that perhaps they could do a Drainage Trustee Performance review, as this position is now full time drainage clerk, this is something different than we have done in the past, it is something we should be accounting for. Hoffman stated that many of the phone calls received by the Drainage Clerk are not good news type calls, and it is important for people to hear the good things also, be recognized for that and their supervisors hear that as well. This review would be conducted by the Trustees and submitted to the Auditor, Jessica Lara, and one on Angela Silvey as Board Secretary, conducted by the Board of Supervisors as well. Granzow would like to see this on the agenda in mid-June, and will make Auditor Lara aware of this.

DD 22 - McClellan asked if there was an update on work done for Randy Silvest's work order. Gallentine replied he does not know anything official, and had discussed with Heather Thomas of CGA some questions she had the formats of the repair summary, and thinks it may be nearly completed. Smith asked if the Trustees would like her to reach out to Heather Thomas for an update, McClellan would appreciate an update if possible.

13. Adjourn Meeting

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



Hardin County

Drainage Claims with Pay Date of 5/15/2020

Description	Vendor	Amount
DD 154 - For Prof Svcs After 1/31/20 to 5/05/20	Clapsaddle-Garber Assoc	117.60
DD 52 WO 215 - Prof Svcs After 1/31/20 to 5/5/20	Clapsaddle-Garber Assoc	1,561.60
DD 22 WO 176 - Prof Svcs After 3/21/20 to 4/18/20	Clapsaddle-Garber Assoc	1,871.05
DD 22 WO 176 - Crop Damage Claim 2020-5	Terry Swenson	1,716.00
DD 22 WO 276 - Parts,Labor, Equipment	Honey Creek Land Improvement, LLC	4,377.20
DD 102 - Attend Hrg & Mtg on Rock Bedding/ Wetland	Clapsaddle-Garber Assoc	501.00

Total Regular Payables: 9,643.45
Total Stamped Warrants: 501.00

Date of Issuance: 5-14-2020	Effective Date: 5-14-2020
Owner: Trustees of Drainage District 25 and 1	Owner's Contract No.: NA
Contractor: McDowell and Sons Contractors, Inc.	Contractor's Project No.: NA
Engineer: Lee Gallentine P.E.	Engineer's Project No.: 6501
Project: Repairs to Main Tile and Lateral 3 Tile DD 25 and Repairs to Main Tile DD 1	Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description: Of the two tiles were discovered and described in Change Order #2, the deeper one was not connected to the Main tile and did not have an outlet. In order for the system to function correctly, an outlet to the Main tile needs constructed.

Attachments: E-mailed prices from contractor, additional plan/profile sheet, and revised list of items, quantities, and prices as a result of Change Order.

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price: Original Contract: \$ <u>248,936.30</u>	Original Contract Times: Substantial Completion: <u>December 30, 2019</u> Ready for Final Payment: _____ date
Increase from previously approved Change Orders No. <u>1</u> to No. <u>2</u> : \$ <u>25,605.00</u>	Increase from previously approved Change Orders No. <u>1</u> to No. <u>2</u> : Substantial Completion: <u>DD 25 - June 30, 2020</u> <u>DD 1 - April 1, 2020</u> dates
Contract Price prior to this Change Order: \$ <u>274,541.30</u>	Contract Times prior to this Change Order: Substantial Completion: <u>DD 25 - June 30, 2020</u> <u>DD 1 - April 1, 2020</u> dates
Increase of this Change Order: \$ <u>45,223.75</u>	Increase of this Change Order: Substantial Completion: <u>DD 25 - June 30, 2020</u> <u>DD 1 - April 1, 2020</u> dates
Contract Price incorporating this Change Order: \$ <u>319,765.05</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>DD 25 - June 30, 2020</u> <u>DD 1 - April 1, 2020</u> dates

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: <u>[Signature]</u>	By: _____	By: <u>[Signature]</u>
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Title: <u>Engineer</u>	Title _____	Title <u>President</u>
Date: <u>May 18, 2020</u>	Date _____	Date <u>5-18-20</u>

Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____

MAIN 25 DIVISION BID

Item No.	Description	Estimated Quantity	Unit	Unit Price	Extended Price
1	24" Ø RCP Tile	260	LF	\$ 70.00	\$ 18200.00
2	Type PC-2 Concrete Collar	14	EA	\$ 500.00	\$ 7000.00
3	Private Tile Connection	2	EA	\$ 600.00	\$ 1200.00
4	Tile Removal	260	LF	\$ 10.00	\$ 2600.00
5	Permanent Seeding	0.3	AC	\$ 3500.00	\$ 1050.00
6	Seeding Warranty	1	LS	\$ 1000.00	\$ 1000.00

LATERAL 3 DIVISION ALTERNATE BID

Item No.	Description	Estimated Quantity	Unit	Unit Price	Extended Price
101ALT	12" Ø RCP Tile	780	LF	\$ 38.00	\$ 29640.00
102ALT*	24" Ø Steel Casing (Jack & Bore)	0	LF	\$ 380.00	\$ 0.00
103ALT*	12" Ø DIP Tile	0	LF	\$ 77.00	\$ 0.00
104ALT	Intake Junction Structure	3	EA	\$ 1750.00	\$ 5250.00
105ALT***	CCTV Tile Inspection	751	LF	\$ 3.25	\$ 2440.75
106ALT	Type PC-2 Concrete Collar	4	EA	\$ 350.00	\$ 1400.00
107ALT	Private Tile Connection	4	EA	\$ 600.00	\$ 2400.00
108ALT	Grading	2	STA	\$ 350.00	\$ 700.00
109ALT	Tile Removal	737	LF	\$ 6.00	\$ 4422.00
110ALT	Tile Abandonment	73	LF	\$ 14.00	\$ 1022.00
111ALT	12" Ø Hickenbottom Intake	1	EA	\$ 1000.00	\$ 1000.00
112ALT	RR Permitting, Flagging, Insurance, Coordination	1	LS	\$ 6500.00	\$ 6500.00
113ALT	Locate Existing Lateral Tile	7.37	STA	\$ 90.00	\$ 663.30
114ALT	Intake Removal	1	EA	\$ 300.00	\$ 300.00
115ALT*	30" Ø Steel Casing (Jack & Bore)	110	LF	\$ 560.00	\$ 61600.00
116ALT*	18" Ø DIP Tile	135	LF	\$ 120.00	\$ 16200.00

LATERAL 3 DIVISION ADDITIONAL ALTERNATE BID

Item No.	Description	Estimated Quantity	Unit	Unit Price	Extended Price
201ALT**	12" Ø RCP Tile	751	LF	\$ 38.00	\$ 28538.00
202ALT	Type PC-2 Concrete Collar	4	EA	\$ 350.00	\$ 1400.00
203ALT	Private Tile Connection	6	EA	\$ 600.00	\$ 3600.00
204ALT	Grading	1	STA	\$ 350.00	\$ 350.00
205ALT**	Tile Removal	751	LF	\$ 6.00	\$ 4506.00
206ALT	12" Ø Hickenbottom Intake	2	EA	\$ 1000.00	\$ 2000.00
207ALT	Locate Existing Lateral Tile	10.6	STA	\$ 90.00	\$ 954.00

LATERAL 3 DIVISION SOUTH PORTION BID

Item No.	Description	Estimated Quantity	Unit	Unit Price	Extended Price
401ALT**	12" Ø RCP Tile	1257	LF	\$ 47.00	\$ 59079.00
402ALT**	Type PC-2 Concrete Collar	2	EA	\$ 350.00	\$ 700.00
403ALT**	Tile Removal	5	LF	\$ 9.00	\$ 45.00

MAIN 1 DIVISION BID

Item No.	Description	Estimated Quantity	Unit	Unit Price	Extended Price
301	24" Ø Polypropylene Tile	123	LF	\$ 55.00	\$ 6765.00
302	34" Ø Steel Casing (Jack & Bore)	50	LF	\$ 707.00	\$ 35350.00
303	22 ½" x 24" Ø Polypropylene Bend	3	EA	\$ 450.00	\$ 1350.00
304	11 ¼" x 24" Ø Polypropylene Bend	1	EA	\$ 450.00	\$ 450.00
305	Intake Junction Structure	1	EA	\$ 1750.00	\$ 1750.00
306	Type PC-2 Concrete Collar	1	EA	\$ 350.00	\$ 350.00
307	Private Tile Connection	1	EA	\$ 600.00	\$ 600.00
308	Grading	2	STA	\$ 350.00	\$ 700.00
309	Tile Removal	49	LF	\$ 10.00	\$ 490.00
310	Tile Abandonment	60	LF	\$ 25.00	\$ 1500.00
311	Traffic Control	1	LS	\$ 1650.00	\$ 1650.00
312	Seeding	0.3	AC	\$ 3500.00	\$ 1050.00
313	Seeding Warranty	1	LS	\$ 1000.00	\$ 1000.00
314	12" Ø Hickenbottom Intake	1	EA	\$ 1000.00	\$ 1000.00

CONTRACT PRICE \$ 319,765.05

* - Approved as part of Change Order #2

** - Approved as part of Change Order #3

MC DOWELL & SONS CONTRACTORS INC

10214 Hwy 65 PO Box 664 Iowa Falls IA 50126
641-648-5071 Fax 641-648-3639
101 13th Street PO Box 6 Ackley IA 50601
641-847-3535 Fax 641-847-3536

PROJECT NAME # 6501

TO: Trustees of Repair to Main Change Order #: 3
tile and lateral 3

CHECK ONE OF THE FOLLOWING:

This change order was caused by:

- Another contractor's faulty workmanship,
name of contractor: _____
problem: _____
- Not included in original proposal
- Additional item requested by your representative,
name of that person: _____
- Other, please describe: _____

Change order detail:

101 RT 12" Ø RCP Tile - 477/ft

Increase in Unit Price due to the increase
in the depth of the tile

Original Total: \$ _____

Increase/Decrease \$ _____

Revised Total \$ _____

Acknowledgment is hereby made of the foregoing and is accepted accordingly.

McDowell & Sons Contractors Inc

ACCEPTED By _____

By Steve McDowell
Steve McDowell

DATE _____

MC DOWELL & SONS CONTRACTORS INC

10214 Hwy 65 PO Box 664 Iowa Falls IA 50126
641-648-5071 Fax 641-648-3639
101 13th Street PO Box 6 Ackley IA 50601
641-847-3535 Fax 641-847-3536

PROJECT NAME # 6501

TO: Trustees of Repair to Main Change Order #: 4
tile and lateral 3

CHECK ONE OF THE FOLLOWING:

This change order was caused by:

- Another contractor's faulty workmanship,
name of contractor: _____
problem: _____
- Not included in original proposal
- Additional item requested by your representative,
name of that person: _____
- Other, please describe: _____

Change order detail:

109 AET Tile Removal - \$9/LF

Increase due to the increase in depth of tile

Original Total: \$ _____

Increase/Decrease \$ _____

Revised Total \$ _____

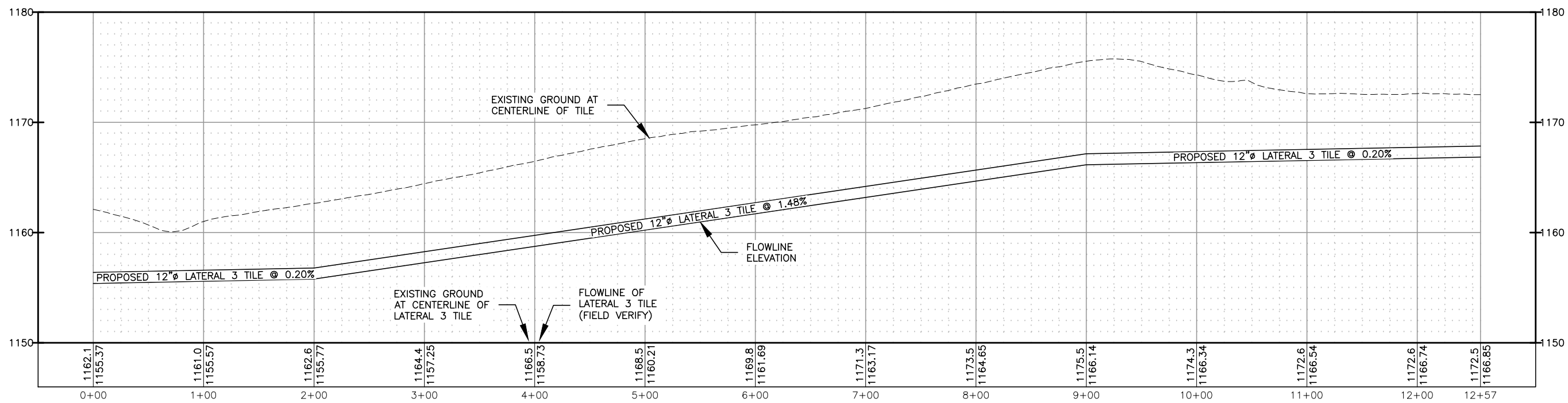
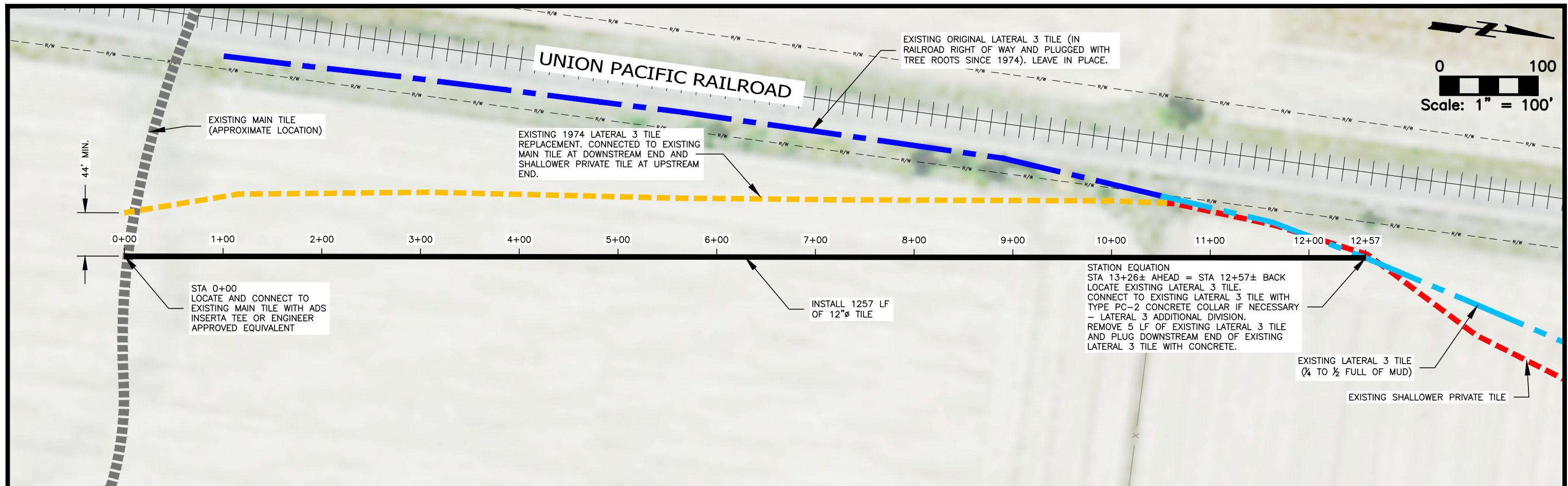
Acknowledgment is hereby made of the foregoing and is accepted accordingly.

ACCEPTED By _____

DATE _____

McDowell & Sons Contractors Inc

By Steve M. McDowell
Steve McDowell





Drainage Work Order Request For Repair Hardin County

Date: 11/12/2019

Work Order #: WO00000278

Drainage District: DDs\DD 31 (51055)

Sec-Twp-Rge: 28-88-22 **Qtr Sec:** NE

Location/GIS: 88-22-28-400-003

Requested By: Jerry Kielsmeier Owner- 515-689-9681

Contact Phone: (515) 689-9681

Contact Email: Jeffrey Kielsmeier Tenant - 515-681-0842

Landowner (if different): _____

Description:

DD 31 -Landowner Jerry Kielsmeier called in to report 2 areas of blowout on DD tile in the SW 1/4 of NE 1/4 of parcel #882228400003. Jerry says two areas of blowout are in low spot south of pond area, spots are marked with steel posts and tile flags by Jerry and tenant Jeffrey Kielsmeier. All is harvested so access is good. Landowner requests investigation/repair.

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:** _____



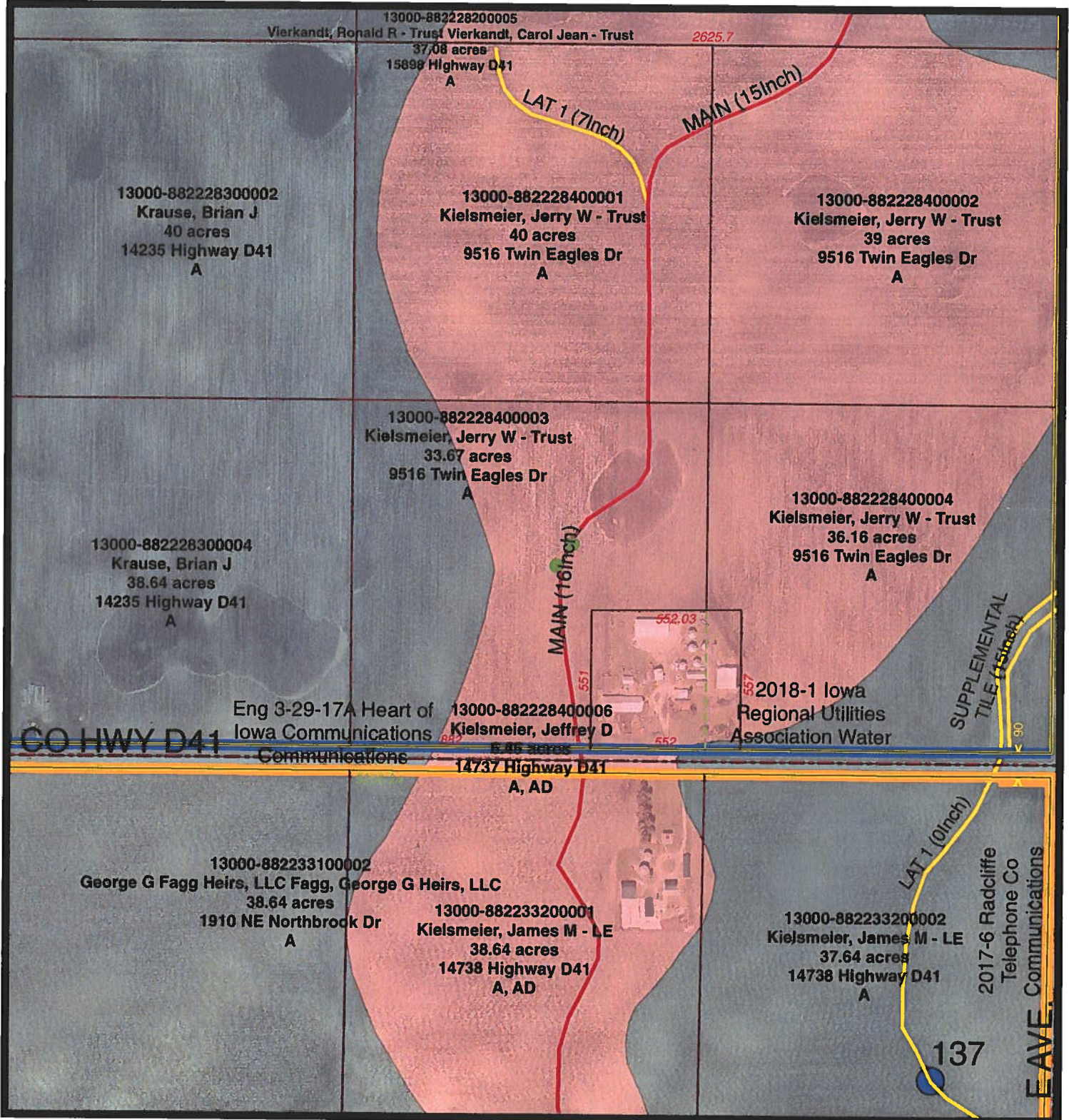
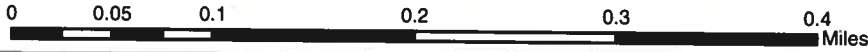
Drainage Tiles

- Lateral
- Main
- Open Ditch
- Private Tile

Hardin County Auditor's Office



Date: 11/12/2019



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Drainage District:

#31

Repair Summary:

- Per the recommended actions in the Investigation Summary, the District Trustees directed CGA to excavate the blowouts/sinkholes as identified in the SW¼ NE¼ of Section 28, Township 88 North, Range 22 West.
- Upon excavation at the south blowout/sinkhole, found the 16-inch VCP Main tile cracked with a hole, sagging on the top and wide joints. Removed broken and sagging/collapsing tile until cracked, but round, VCP tile was found.
- Excavated at the north blowout/sinkhole and found the 16-inch VCP Main tile broken just north of a previous repair. The previous repair was excavated in a southerly (downstream) direction and was found to be an 18-inch HDPE tile followed by an 18-inch CMP tile without concrete collars at connection points. A private tile connection was also found among the previous repair, connecting to the dual wall HDPE Main. Removed the broken VCP tile, along with the dual wall HDPE and CMP previous repair until cracked, but round, VCP tile was found in each direction.
- Repaired the Main tile in both locations with 18-inch dual wall HDPE, rock bedding and backfill, and ¾ concrete collars where each repair connected to the original 16-inch VCP tile. The private tile connection was repaired with 6-inch single wall HDPE, rock bedding and backfill, and ¾ concrete collar connecting it to the Main.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

Due to the observed physical condition of the tile during the repair, along with previous repairs conducted in the same area, if more reports of broken tile or reduced drainage are reported, and investigation into the overall condition of the Main tile may be warranted.



Tabulated Contractor Time and Materials

Date	Totals	3/13/2020	3/17/2020
Workman (hrs)	43 1/4	10	33 1/4
Mini Excavator (hrs)	16 1/2	5	11 1/2
Tracked Skid Loader (hrs)	28	5	23
Concrete Collars	Yes		
Rock Bedding and Backfill	Yes		
18" Dual Wall HDPE Tile (ft)	55		55
6" SW HDPE Tile	6		6



Drainage Work Order Request For Repair

Hardin County

Date: 4/28/2020

Work Order #: WO00000293

Drainage District: DDs\DD 68 (51098)

Sec-Twp-Rge: 06-89-21 **Qtr Sec:** _____

Location/GIS: 89-21-06-400-003

Requested By: Nick Hoversten

Contact Phone: (515) 290-5806

Contact Email: _____

Landowner (if different): Thielke Farms

Description: DD 68 - Nick Hoversten reports intake is sucking dirt on N side of 110th St. in parcel #892106400003 (Thielke Farms) just west of acreage/house site owned by Jeff Hoversten.

Repair labor, materials and equipment: _____

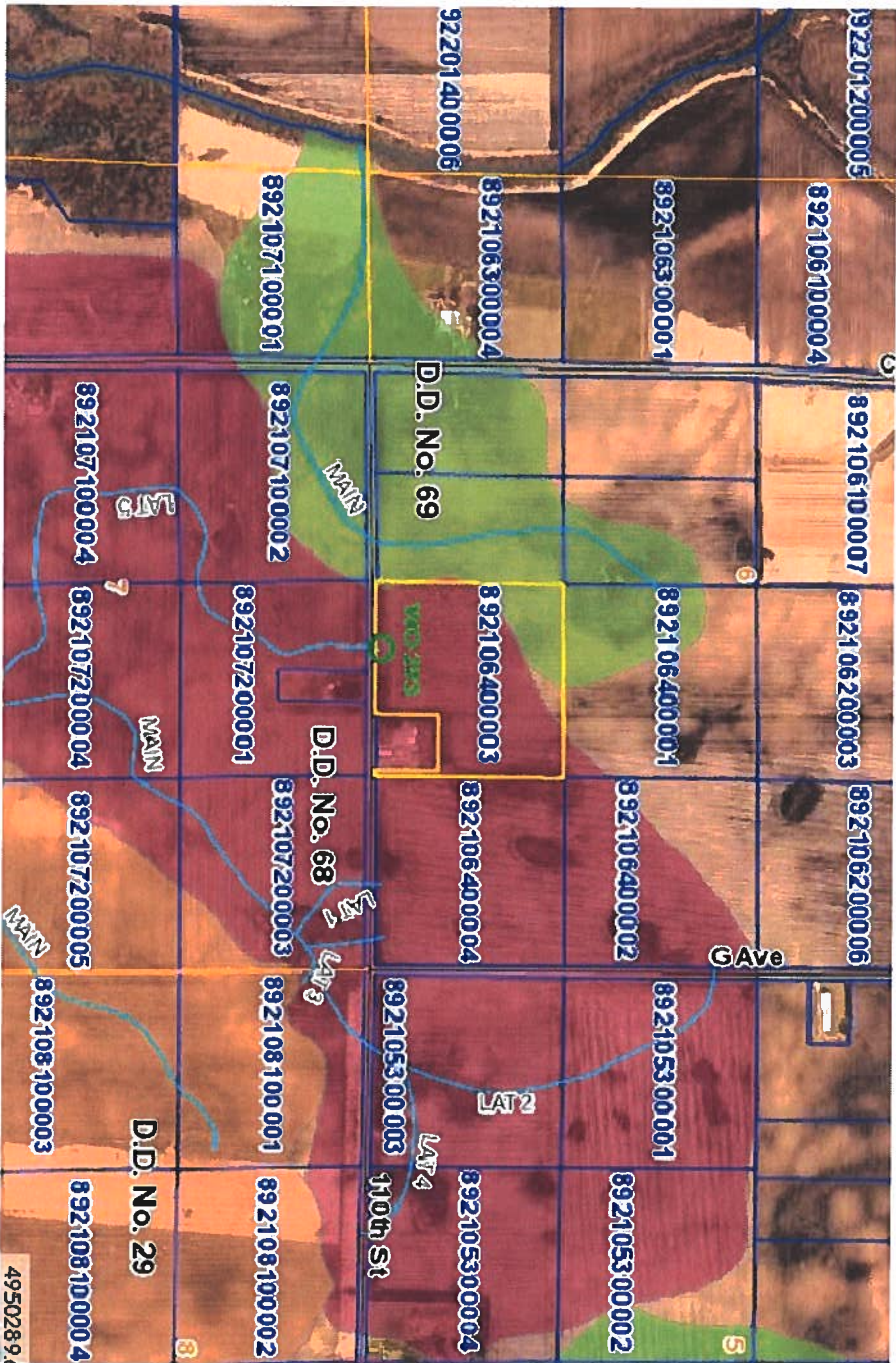
Repaired By: _____ **Date:** _____

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:** _____



Drainage District:

#68 Lat 5

Investigation/Repair Summary:

- Landowner in the SW¼ SE¼ Section 6, Township 89 North, Range 21 West reported a blowout/sinkhole beside an intake on the north side of 110th Street.
- Visual observation found the blowout/sinkhole as described, with the apparent collapse occurring at the connection between the intake and the Lateral 5 tile. The reinforced box culvert nearby was also observed to be largely obstructed with soil that has silted in on the road ditches of 110th street.

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

None recorded as only visual observation was performed.

Additional Actions Recommended:

- Direct CGA to facilitate the excavation and repair of the connection between the intake and Lateral 5 tile.
- Inform Secondary Roads of the soil ditch siltation obstructing the drainage capacity in the road box culvert so that they can remove siltation.



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

5/4/20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

6802

COUNTY, ROUTE, ROAD:

DD68

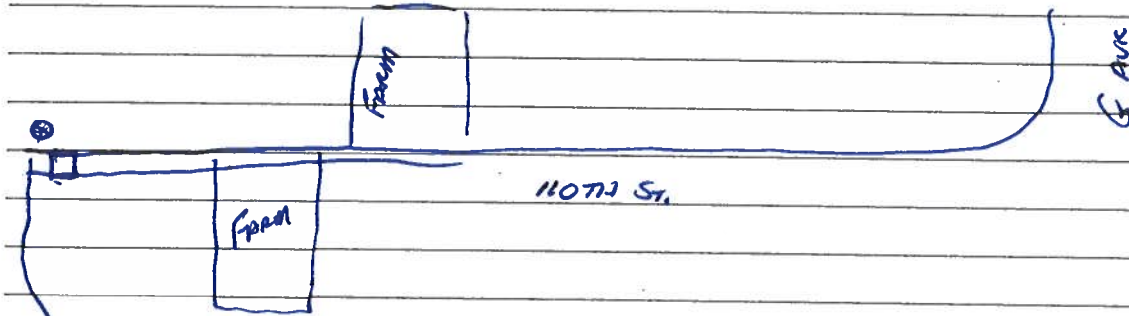
LOCATION:

110TH ST. + G AVE.,

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB
NAME, ITEM NO. AND LOCATION

Cloudy, 55°, Windy, day conditions

DROVE WEST ON 110TH ST FROM G. AVE., TO WEST OF
ACERAGE ON N. SIDE ROAD. FOUND BEEHIVE INTAKE WITH HOPE TIE
AROUND. CONNECTION TO MAIN IS BROKEN AND COLLAPSED.
REPAIR ASAP.



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

Reath

Date Prepared:

5/4/20

Reviewed by:

Engineer

Date Reviewed

INTAKE @ N. R/W OF 110TH ST.



S. SIDE RBC ON 110TH ST. (E-W)



LOOKING SOUTH @ FOX CULVERT





Drainage Work Order Request For Repair Hardin County

Date: 6/4/2019

Work Order #: WO00000259

Drainage District: DDs\DD 124 (51139)

Sec-Twp-Rge: 88-20-33 Qtr Sec: _____

Location/GIS: 88-20-33-200-001

Requested By: Steve Kjormoe

Contact Phone: 641-751-2609

Contact Email: _____

Landowner (if different): Daniel Oppold

Description: DD 124: Blowout in SE corner, water is running into neighboring property.
Kjormoe is now going to switch to beans this year. Can access the field off of Co Hwy D41.

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

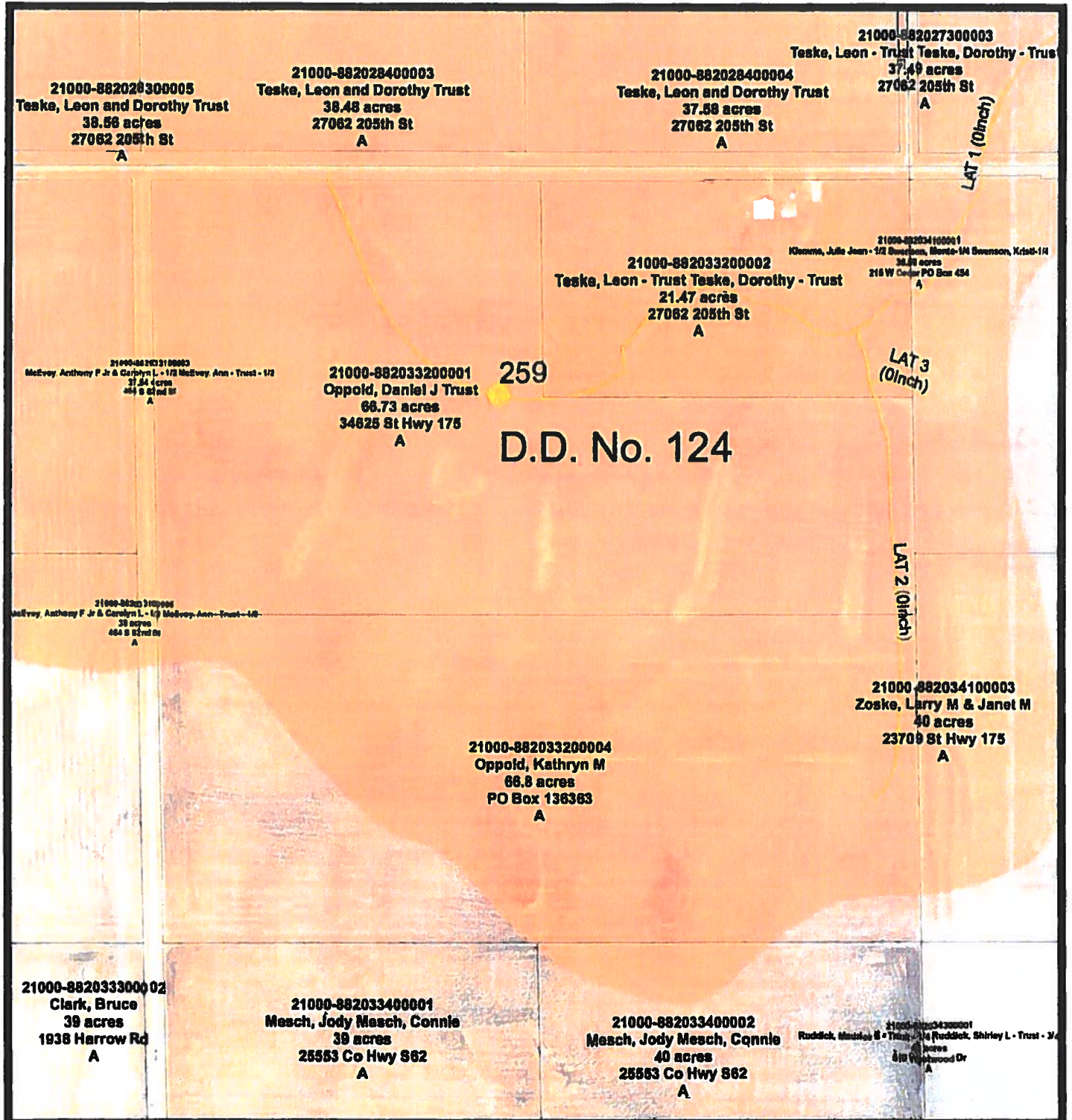
Approved: _____ Date: _____



Hardin County Auditor's Office



Date: 6/4/2019



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Drainage District:

#124 Lat 1

Repair Summary:

- Per the recommended actions of the previous Investigation Summary, returned to the NW¼ NE¼ Section 33, Township 88 North, Range 20 West to find restrictions in tile affecting flow.
- Excavated in multiple locations downstream of the location where water was boiling out of the broken tile and flowing overland. Initial excavations did not find the origin of the restriction, so crew began excavating at the location of the boiling water and found the 10-inch single wall HDPE (previous repair) Lateral 1 tile and wye that had been crushed immediately downstream of said blowout/sinkhole. Said tile was also found to contain a significant amount of soil within the flowline. At one end of this excavation, the 10-inch VCP tile collapsed during excavation. An 8-inch private tile was found to empty into the Lateral tile in this location as well. A separate section of 10-inch VCP tile was also encountered during the exploratory excavations that collapsed.
- Both the single wall HDPE and VCP tiles in these locations were removed until intact (cracked, but round) VCP tile was encountered at each end.
- The Lateral 1 tile was repaired with 10-inch dual wall HDPE, rock bedding and backfill, and ¾ concrete collars on each end of the repairs. Private tile was connected to the Lateral 1 tile with a factory wye and ¾ concrete collar. The rock bedding and backfill was installed to an elevation near the soil surface due to the shallow nature of the repair. Excavations were then filled with a combination of on-site and imported backfill.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

The soil used in the backfilling and shaping of the waterway was saturated at the time of repair and may need some additional shaping when it has been allowed to dry out more. Grass seeding was also not accomplished at the time of repair. The contractor and landowner will need to be contacted to facilitate both of these actions.

Due to the shallow position of the Lateral 1 tile in this area, and the lack of soil cover over the same, it is recommended that the District Trustees consider the relocation of the Lateral 1 tile to preserve long-term integrity and drainage capabilities.



Tabulated Contractor Time and Materials

Date	Totals	3/26/2020	3/27/2020	3/30/2020	3/31/2020
Workman (hrs)	58	13	9	25 1/2	10 1/2
Mini Excavator (hrs)	37	7	9	10 1/2	10 1/2
Utility Task Vehicle (hrs)	11	7	4		
Tracked Skid Loader (hrs)	37	7	9	10 1/2	10 1/2
Rock Bedding and Backfill	Yes				
Concrete Collars	Yes				
10" Dual Wall HDPE Tile (ft)	97		6	91	
10"x10" HDPE Wye (ea)	1			1	
Removal of Refuse	Yes				
Imported Soil	Yes				



Drainage Work Order Request For Repair Hardin County

Date: 11/12/2019

Work Order #: WO00000279

Drainage District: DDs\DD 128 (51142)

Sec-Twp-Rge: 23-88-20 **Qtr Sec:** NE 1/4

Location/GIS: 88-20-23-400-005

Requested By: Dean Bright

Contact Phone: 641-751-3464

Contact Email: _____

Landowner (if different): _____

Description:

DD 128 - Dean Bright reports area that had been previously repaired (WO127) is leaking in parcel #882023400005 in the West section of the NE corner. Seeping into an area 20' wide by 100 yards long. Area is harvested, good access. Dean requests repair. Motioned to have CGA investigate on 11/6/2019.

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: Per Minutes **Date:** 11/6/2019



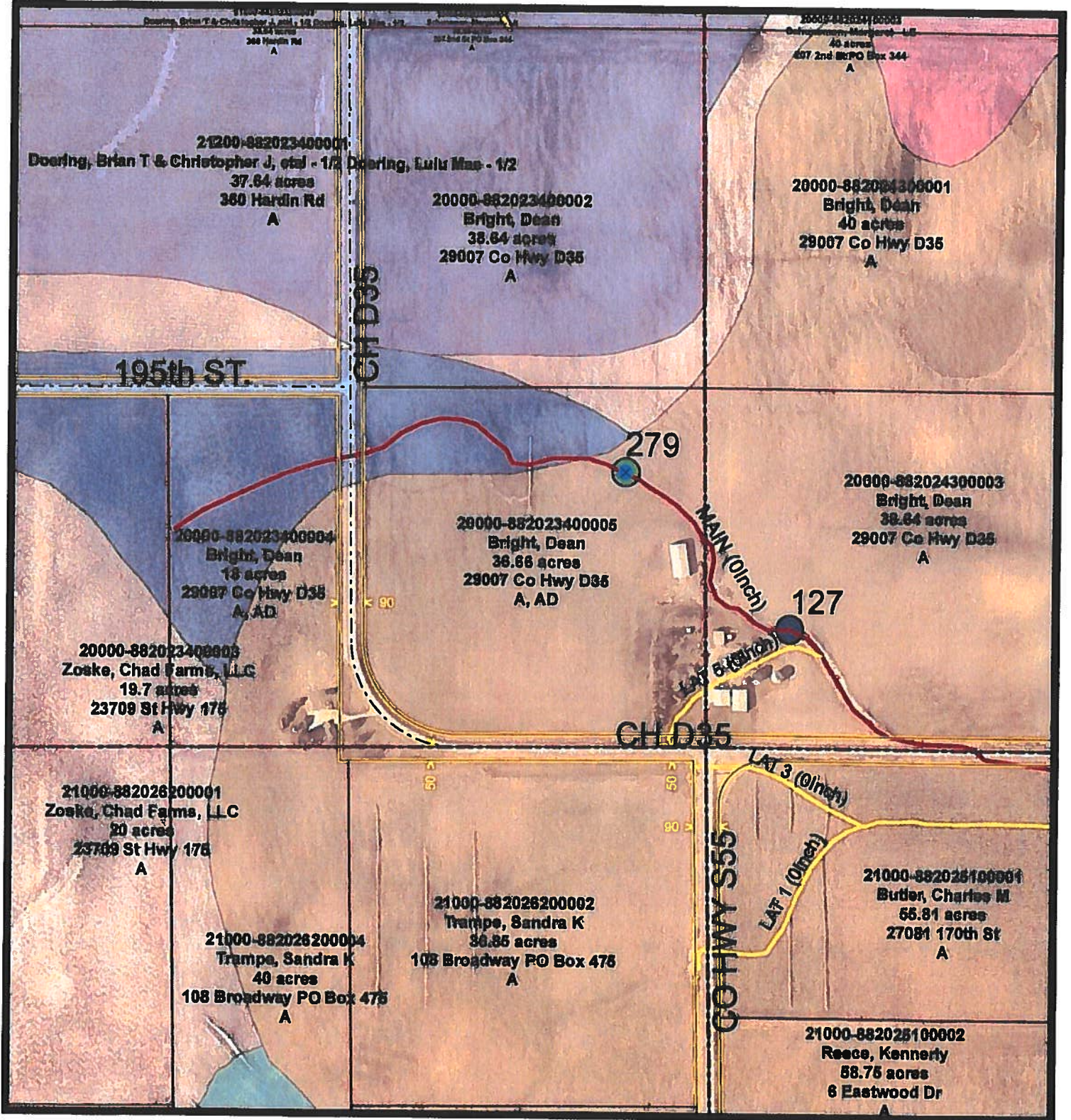
Drainage Tiles

- Lateral
- Main
- Open Ditch
- Private Tile

Hardin County Auditor's Office



Date: 11/12/2019



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Drainage District:

#128

Investigation/Repair Summary:

- Per the recommended actions of the Investigation summary, excavated at the location of the Main tile near the overly wet area in the SE¼ SE¼ of Section 23, Township 88 North, Range 20 West.
- Visually observed water in the Hickenbottom intake on the Main tile near farmstead (downstream of the reported ponding) to be freely flowing with no signs of backed-up drainage.
- Upon excavation, the 8-inch CMP Main tile was found to be offset from the low spot/swale by approximately 12-feet. Said excavation lacked any standing water until past where the Main tile was exposed. However, the soil shows signs of not having good infiltration properties in the area. No obvious restrictions could be found on the Main tile.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

Inform the landowner of what was found, and that if the problem persists, a new branch tile (private or district) could be installed to remedy the issue.



Tabulated Contractor Time and Materials

Date	Totals	3/26/2020
Workman (hrs)	2 1/2	2 1/2
Mini Excavator (hrs)	1 1/2	1 1/2
Utility Task Vehicle (hrs)	1/2	1/2



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

03/26/2020

PROJECT NUMBER:

HARDIN DD WO # 279
6935.3/DD#128

DAYS OF WEEK:

S M T W **D** F S

COUNTY, ROUTE, ROAD:

NORTH AND EAST OF CO HWY D35
318' SOUTH & 1000' EAST OF
INTERSECTION OF 195TH ST & CO HWY D35

SHEET NO.

1 OF 2

LOCATION:

DD#128 LOCATED IN SE 1/4 SE 1/4
23-88-20 HARDIN

UPPER 30'S TO LOW 50'S

CLOUDY WITH LIGHT WIND

JOB # 6935 DD128 SURVEY

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB
NAME, ITEM NO. AND LOCATION

9:00 ADAM CALLED THAT CREW WILL BE WORKING THIS JOB TODAY AND WILL
BE ON SITE AROUND 10:30 A.M. TO 11:00 A.M. OBSERVER DOWNLOADED
JOB FILE TO DATA COLLECTOR AND LOOKED FOR TILE REPAIR FILE.

9:40 A.M. OBSERVER HAD EQUIPMENT LOADED AND LEFT FOR REPAIR.

10:00 A.M. OBSERVER ARRIVED ON SITE AND WALKED OUT TO WHERE
AREA WAS WET. FOUND AREA THAT IS WET WITH WATER
SITING IN FL OF GRASSY AREA.

10:19 A.M. PICTURE # 3145, PICTURE # 3146, 10:20 A.M. PICTURE # 3147
SEE PICTURE FOR DETAILS.

10:20 A.M. CREW NOT ON SITE YET OBSERVER SET GPS BASE ON
GPS # 277 3/4" IRON ROD 0.1' EXPOSED IN NW QUADRANT OF INTERSECTION
OF CO HWY D35 AND 195TH ST TO WEST. MONUMENT IS

10:50 A.M. OBSERVER HAD BASE SETUP & CHECKED INTO GPS # 279
SURVEY MARK NAIL FLUSH IN AC AT INTERSECTION OF CO HWY
D35 & 195TH ST.

11:10 A.M. JEFF AND TAKEUCHI TB 145 MINI EXCAVATOR
WERE ON SITE. JEFF LOOKED OVER AREA AND STARTED
TO EXCAVATE A 3.0' X 8.0' LONG TRENCH ON SE SIDE WHERE
WATER WAS STANDING IN GRASS AREA.

11:30 A.M. ADAM ARRIVED ON SITE WITH UTV. JEFF CONTINUED
TO EXCAVATE TRENCH. OBSERVER AND ADAM HEADED
TO HICKEN BOTTOM ON NW END OF SWALE EAST OF
MACHINE SHED. HICKEN BOTTOM IS OVER MAIN AND
IS FLOWING GOOD.

12:00 P.M. CREW HAD TOP OF CMP TILE MAIN EXPOSED. THE
TRENCH WAS DRY DURING EXCAVATION. IT WAS ABOUT 5

I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

Dean Penning

Date Prepared:

03/26/2020

Reviewed by:

Engineer

Date Reviewed

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

03/26/2020

DAYS OF WEEK:

S M T W T F S

PROJECT NUMBER:

HARDIN DDWO #279

COUNTY, ROUTE, ROAD:

6935.3/DD#128
NORTH 2 EAST OF CO HWY D35
318' ± SOUTH & 1000' EAST OF
INTERSECTION OF MS. TRST & CO HWY D35

SHEET NO.

2 OF 2

LOCATION:

DD#128 LOCATED IN SE 1/4 SE 1/4 23-88-20 HARDIN

UPPER 30'S TO LOW 50'S
CLOUDY WITH LIGHT WIND

JOB# 6935 DD 128 SURVEY

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

MINUTES AFTER TOP OF TILE WAS EXPOSED, WATER WAS VISIBLE ABOVE TILE.

CREW SAID SOIL IN THIS AREA IS TOO TIGHT AND WILL NOT ALLOW

SOIL TO DRAIN AND MAIN TILE IS 11.2' SW OF FLOF SWALE.

12:11 P.M. PICTURE # 3148 SEE PICTURE FOR DETAILS.

12:13 P.M. OBSERVER CALLED LEE ABOUT WHAT CREW FOUND.

LEE WOULD LIKE ADAM, TO INFORM LAND OWNER ON

WHAT CREW FOUND SO HE IS AWARE THAT CREW EXCAVATED

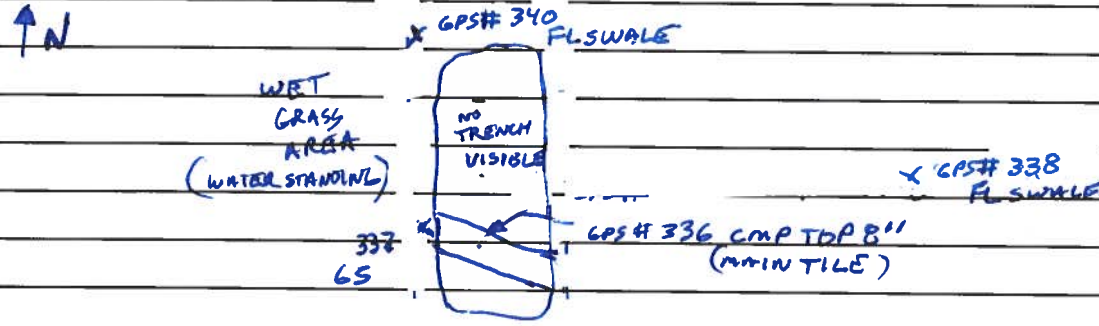
GPS# 339

FOR IT.

FL SWALE

12:40 P.M. CREW AND OBSERVER LEFT SITE

12:34 P.M. PICTURE # 3151 SEE PICTURE FOR DETAILS



QUANTITIES

OPERATOR JEFF 1 HOUR

OPERATOR ADAM. 1 1/2 HOUR

UTV 1/2 HOUR

TAKEUCHI TB145 MINI EXCAVATOR 1 1/2 HOUR

I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

Dean Remington

Date Prepared:

03/26/2020

Reviewed by:

Engineer

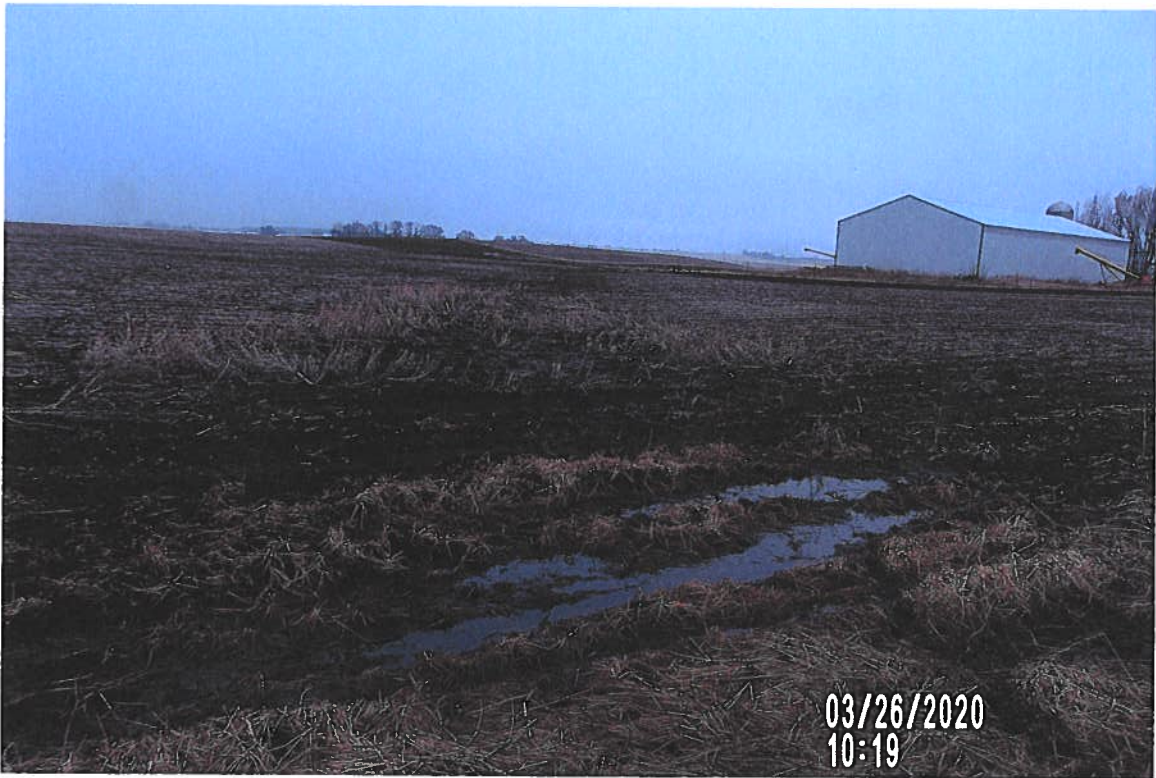
Date Reviewed

PICTURE # 3147 IS LOOKING NW WHERE SOIL IS WET SE OF STANDING WATER



PICTURE # 3148 IS LOOKING SOUTH IN 3.0' WIDE X 8.0' LONG TRENCH WHERE TOP OF 8" CMP WAS EXPOSED ON SE EDGE OF GRASS AREA WHERE WATER WAS STANDING. TRENCH WAS DRY DURING EXCAVATION.

PICTURE # 3145 IS LOOKING SE SHOWING GRASS AREA WITH WATER STANDING. SOIL IS WET IN THIS AREA.



PICTURE # 3146 IS LOOKING SE SHOWING GRASS AREA WITH WATER STANDING IN GRASS AREA.

PICTURE #3151 IS LOOKING SE SHOWING TRENCH BACKFILLED
WITH SOIL ON SOUTH EDGE OF WATER STAND AT GRASS
AREA (245' NORTH & 241.2' WEST OF NE CORNER OF
MACHINE SHED)



↓ N

6935 dd128 2020-3-26 DP

270,3614487.724,5022985.116,1057.554,gs
271,3614489.238,5022983.053,1056.187,toe
272,3614489.883,5022980.299,1056.285,gs c1
273,3614491.199,5022976.672,1057.271,toe
274,3614496.712,5022971.100,1059.672,gs
275,3614506.698,5022957.238,1062.426,tb
276,3614518.076,5022941.268,1063.159,gs
277,3614793.137,5017453.571,1128.882,IRS CPT 3/4X2
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282,3614485.144,5017542.985,1117.754,GS
283,3614489.231,5017549.972,1117.028,GS
284,3614500.882,5017550.380,1118.968,FNL
285,3614492.791,5017537.387,1119.079,UGFO
286,3614512.071,5017537.903,1118.918,UGFO
287,3614447.966,5017538.181,1118.710,UGFO
288,3614459.648,5017549.426,1119.268,UGFO
289,3614456.756,5017549.895,1119.370,FNL
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303,3614641.234,5017842.018,1112.817,GS FL
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305,3614602.790,5017982.276,1111.999,GS FL
306,3614557.938,5018047.642,1110.957,GS FL
307,3614504.449,5018110.170,1109.727,GS FL
308,3614492.817,5018162.958,1109.117,GS INTK
309,3614497.599,5018098.934,1109.880,GS
310,3614506.553,5018039.945,1111.156,GS
311,3614517.509,5017941.838,1113.255,GS
312,3614517.570,5017855.638,1115.551,GS
313,3614509.646,5017783.273,1118.531,GS
314,3614494.193,5017717.020,1118.264,GS
315,3614477.850,5017644.339,1117.487,GS
316,3614469.510,5017600.140,1117.120,GS
317,3614484.836,5018385.593,1105.146,GS SUCK HOLE
318,3614475.159,5018419.634,1104.775,GS SUCK HOLE
319,3614234.627,5018801.265,1096.455,OUTLET AREA DD128
320,3614234.717,5018798.718,1095.082,OUTLET 5"CLAY
321,3614236.953,5018799.160,1095.722,OUTLET 6"CLAY
322,3613705.040,5019316.964,1085.078,GS INTKE STEEL
323,3613867.625,5019183.632,1088.217,GS FL

6935 dd128 2020-3-26 DP

324,3613878.602,5019066.952,1088.414,GS FL
325,3613967.430,5018895.964,1088.501,GS FL
326,3614220.187,5018811.932,1095.639,CMP 15"TOP
327,3614236.184,5018795.561,1096.045,CMP 15"TOP
328,3614248.007,5018783.000,1096.608,CMP 15"TOP
329,3614240.855,5018775.910,1095.827, TOP 5"CLAY
330,3614249.648,5018780.584,1096.897, TOP 6"CLAY
331,3614604.344,5017736.928,1112.157, TOP 6"CONC MAIN
332,3614606.204,5017734.003,1112.860, TOP 6"CONC LAT
333,3614476.244,5018420.001,1102.297, TOP 6"CONC
334,3614476.904,5018417.629,1102.362, TOP 6"CLAY
335,3614245.529,5018833.767,1102.355,CPT 1/2IRS
336,3614437.206,5018503.348,1100.680,CMP TOP 8"
337,3614437.421,5018501.016,1104.109,GS
338,3614441.511,5018530.021,1103.543,FL SWALE
339,3614462.549,5018476.922,1104.027,FL SWALE
340,3614450.011,5018498.877,1103.816,FL SWALE
350,3614220.014,5018811.967,1095.417,cmp 15" top 1.23' to fl
351,3614213.305,5018811.852,1093.724,toe
352,3614216.867,5018809.509,1094.039,toe
353,3614220.698,5018808.924,1094.278,toe
354,3614221.229,5018811.862,1093.924,toe
355,3614221.468,5018816.374,1093.934,toe
356,3614220.324,5018823.641,1094.283,toe
357,3614213.736,5018825.482,1094.044,toe
358,3614208.588,5018814.750,1093.675,toe
359,3614210.258,5018817.890,1093.374,fl ditch
360,3614216.948,5018814.257,1093.291,fl ditch
361,3614215.560,5018814.870,1093.560,fl ditch
362,3614218.096,5018813.634,1093.721,fl ditch
363,3614219.924,5018812.120,1093.524,fl ditch
364,3614209.900,5018802.186,1097.828,gs boulders/dirt
365,3614198.048,5018791.226,1100.862,TB
366,3614175.333,5018770.209,1102.698,gs grass
367,3614167.586,5018757.459,1104.905,gs grass
368,3614161.371,5018748.735,1105.311,shed e side
368_REF1,3614160.939,5018749.637,1105.151,Ref. Pt.
368_REF2,3614162.296,5018749.115,1104.872,Ref. Pt.
369,3614220.970,5018813.416,1093.879,fl ditch
370,3614223.085,5018814.961,1094.157,toe
371,3614224.420,5018816.904,1095.637,gs boulders/dirt
372,3614228.000,5018818.739,1096.310,gs boulders
373,3614233.702,5018821.342,1099.053,gs boulders
374,3614243.132,5018833.163,1101.554,tb
375,3614246.162,5018835.781,1102.236,gs grass/field
376,3614265.142,5018851.528,1102.680,gs field
377,3614302.253,5018877.566,1104.371,gs field
378,3614330.610,5018832.122,1104.358,gs field
379,3614292.704,5018801.730,1102.522,gs field
380,3614255.590,5018772.849,1101.286,gs field
381,3614249.291,5018770.613,1101.332,gs grass/field
382,3614224.746,5018746.015,1101.885,gs grass
383,3614202.845,5018734.767,1104.703,gs grass
384,3614193.417,5018727.133,1105.093,gs grass



Drainage Work Order Request For Repair

Hardin County

Date: 2/24/2020

Work Order #: WO00000285

Drainage District: DDs\DD 158 (51175)

Sec-Twp-Rge: _____ Qtr Sec: _____

Location/GIS: _____

Requested By: _____

Contact Phone: _____

Contact Email: _____

Landowner (if different): _____

Description: DD 158 - Ground intake on W side of road has silted in w debris, and intake is boiling out & water is flowing overland to culvert and continues to overland once it is on the E side of road. May need intake cleaned out and standpipe installed.

Repair labor, materials and equipment: _____

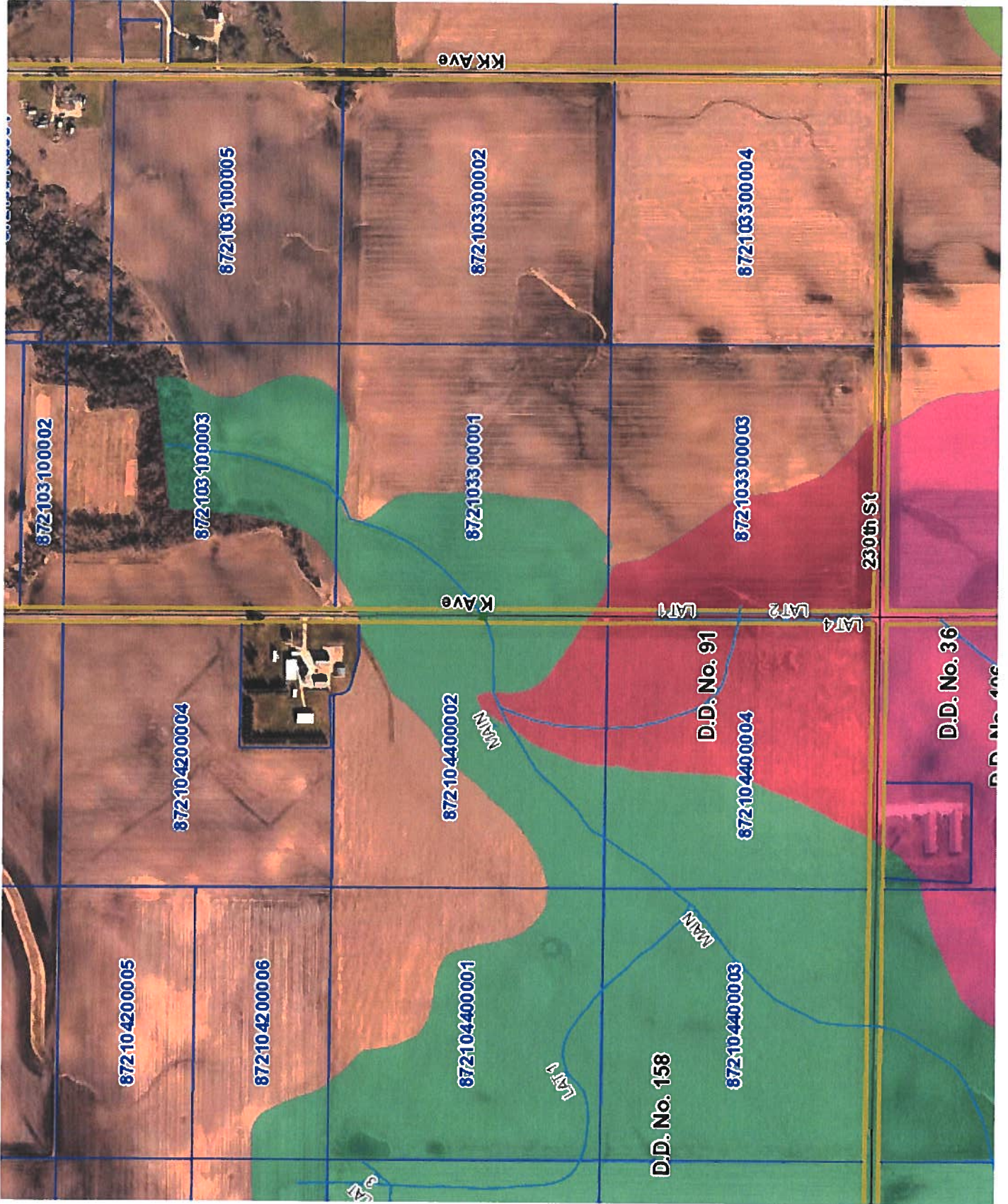
Repaired By: _____ Date: _____

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: _____



Drainage District:

#158

Investigation Summary:

- Landowner in the NE¼ SE¼ Section 4, Township 87 North, Range 21 West reported an intake in the west road ditch of K Avenue with excess sediment around the perimeter and water boiling out, flowing overland and beneath the road via the road culvert, and continuing in a northeasterly direction in Section 3.
- Visual observation found the intake as described in the work order, with a washout having formed on the east side of K Avenue due to the overland flow of water. Also found a depression in the soil above the assumed Main tile route in the same location.

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

None recorded as only visual observation was conducted.

Additional Actions Recommended:

CGA recommends the Main tile be excavated at the location of the depression on the east side of K Avenue (NW¼ SW¼ of Section 3), and the tile CCTV inspected in both the upstream and downstream direction to determine the existence and location of the restriction and the condition of the Main tile in this area. If the necessary repair is small enough, it could be performed using the contractor lottery system.



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

5/5/20

PROJECT NUMBER:

6907

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

DD 158

SHEET NO.

1 OF 1

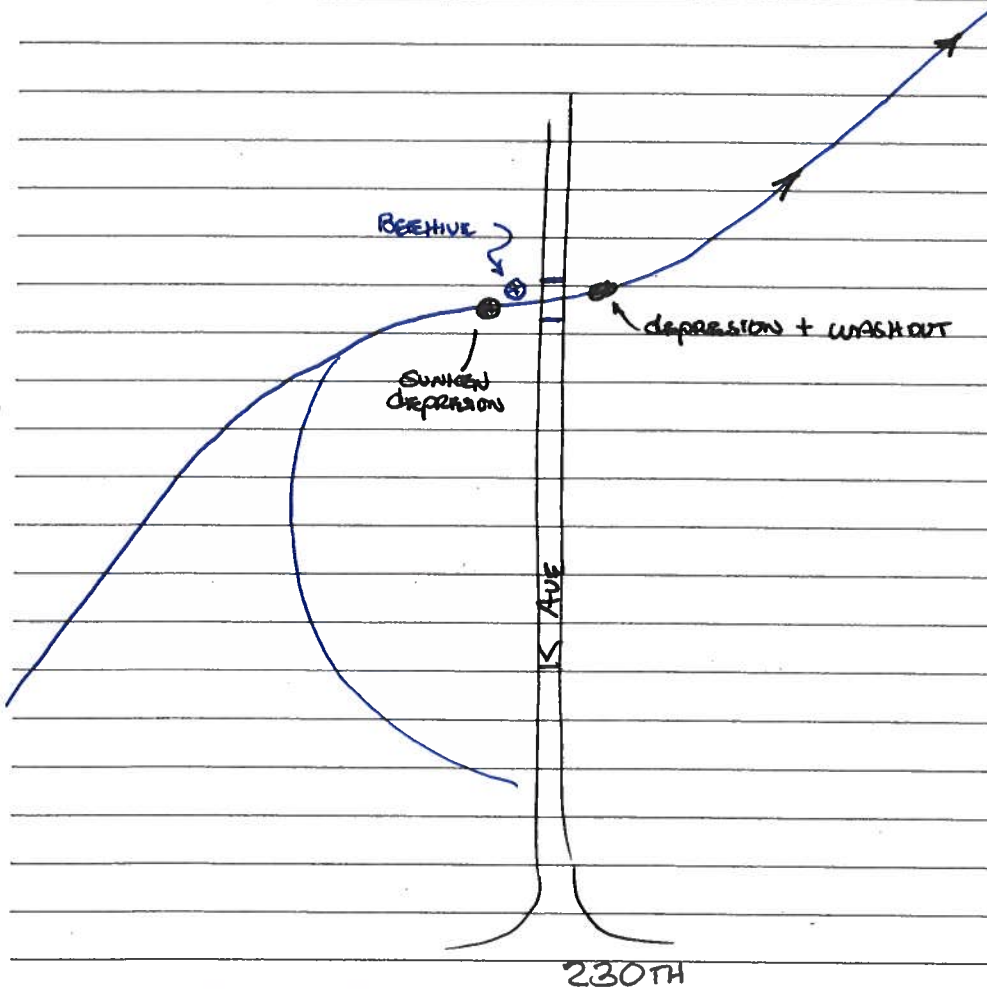
LOCATION:

K AVE

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB
NAME, ITEM NO. AND LOCATION

Cloudy, RAIN, 50°

STOPPED @ RCB ON TIE ROUTE. BEEHIVE BURIED ON W-SIDE
WITH DEPRESSION @ W. R/W. WASH-OUT / DEPRESSION ON E-SIDE
K AVE. DIG UP INSPECT FOR DAMAGE, HOPEFULLY NOT UNDER ROAD.



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

[Handwritten Signature]

Date Prepared:

5/5/20

Reviewed by:

Engineer

Date Reviewed

LOOKING WEST @ BERTRIE (W. SIDE K AVE.)



LOOKING WEST @ TILE ROUTE





Drainage Work Order Request For Repair

Hardin County

Date: 4/28/2020

Work Order #: WO00000292

Drainage District: DDs\Big 4 Main (51193)

Sec-Twp-Rge: 05-88-22 **Qtr Sec:** _____

Location/GIS: 88-22-05-200-001

Requested By: Nick Hoversten

Contact Phone: (515) 290-5806

Contact Email: _____

Landowner (if different): _____

Description: DD Big 4 Main - Nick Hoversten reports intake is sucking in dirt on Main DD tile, in west edge of parcel, right on property line with Hudspeths.

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:** _____



Drainage District:

Big 4

Investigation Summary:

- Landowner reported an intake with a blowout/sinkhole forming nearby in the NW Corner of the NW¼ NE¼ Section 5, Township 88 North, Range 22 West on the south side of County Highway D25.
- Visual observation found the blowout/sinkhole and intake as described in the south ditch of D25, with another intake seen on the opposite (north) side of the road. Searching through the historical records for both Big 4 and D.D. 18 (D.D. 18 being on the north side of the road), it appears that no known district tile exists in this area.
- Also observed the condition of the Big 4 Main open ditch and found a washout in the north bank along the west property line of the same property. The next property to the west (NW¼ Section 5) also had multiple washouts and broken private tile outlets that were found to be eroding the Main open ditch bank and forming gullies. These washouts were observable both while on-site as well as with aerial photography.

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

None recorded, as only investigation was performed.

Additional Actions Recommended:

- Since the initially reported blowout/sinkhole does not appear to belong to known or mapped district tile, the landowner and Secondary Roads should be informed of such.
- The other washouts and broken tile outlets in the bank of the Big 4 Main open ditch may eventually cause siltation of the same and might possibly lead to a full collapse of the Main open ditch bank in those areas. Due to this, these areas should be repaired and a larger-scale investigation into this issue and the necessary repairs may be warranted.



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

5/5/20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

57345

COUNTY, ROUTE, ROAD:

00 Big 4

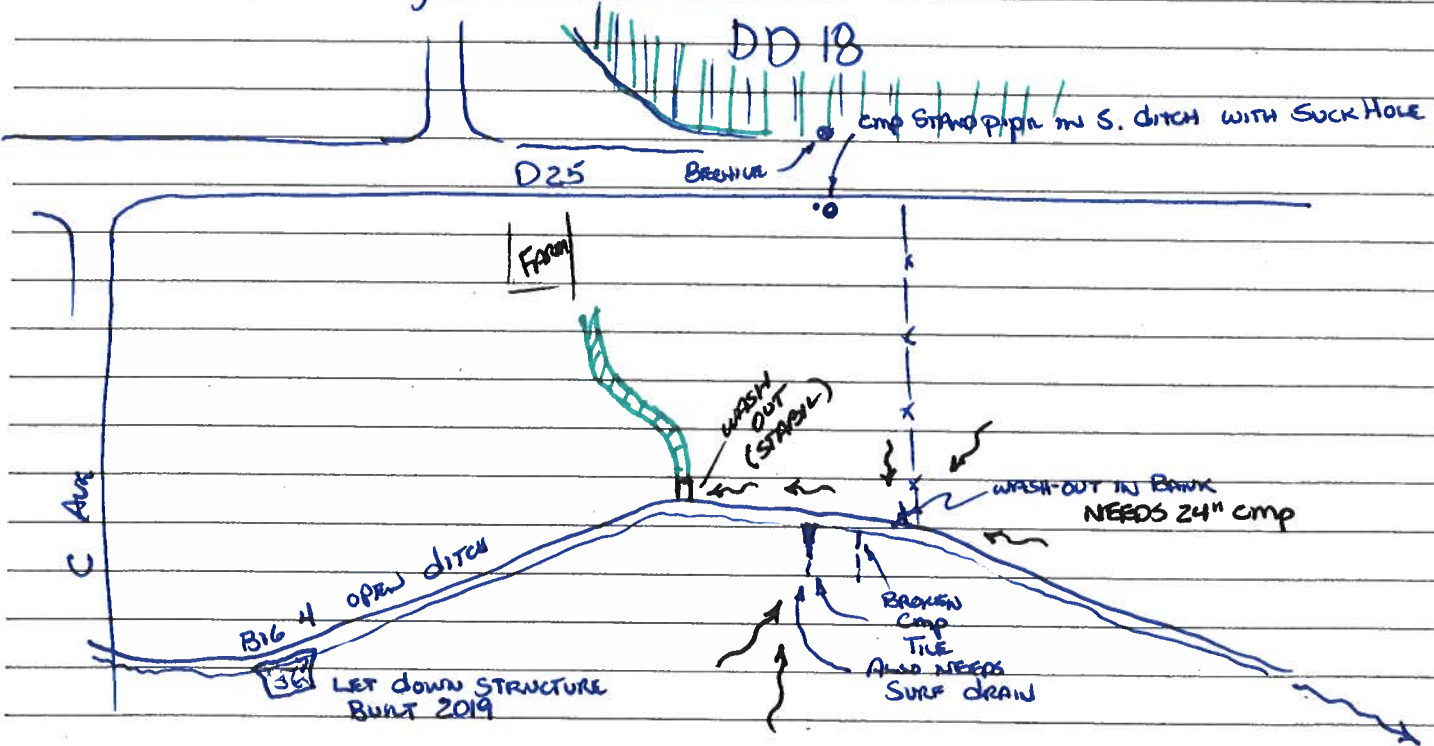
LOCATION:

D AVE AND D25

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Cloudy, misty RAIN, 45°, TACKY CONDITIONS

ARRIVED @ FIELD DRIVES ON S. SIDE D25 @ NICKS FIELD. CALLED HIM, NO ANSWER. WALKING IN TO OPEN DITCH ON PROP FENCE N-S. FOUND WASH-OUT THAT COULD NEED A SURFACE DRAIN. ALSO FOUND 2 TILE OUTLETS THAT WERE FLOODING SIDE SLOPE ON S. SIDE OF OPEN BIG 4 DITCH. NICK CALLED AND TOLD ME THAT THE PROBLEM WASN'T IN THE OPEN DITCH OF BIG 4, BUT IN THE S. DITCH OF D25, THE BLOW-OUT @ THE STAND PIPE INTAKE. TOOK PICS OF ALL POSSIBLE REPAIRS. NICK SAID HE WOULD BE IN FAVOR OF ALSO REPAIRING OPEN DITCH IF NEEDED. LOOKS LIKE INTAKES MAY BE IN DD18 DISTRICT



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

[Handwritten Signature]

Date Prepared:

5/5/20

Reviewed by:

Engineer

Date Reviewed

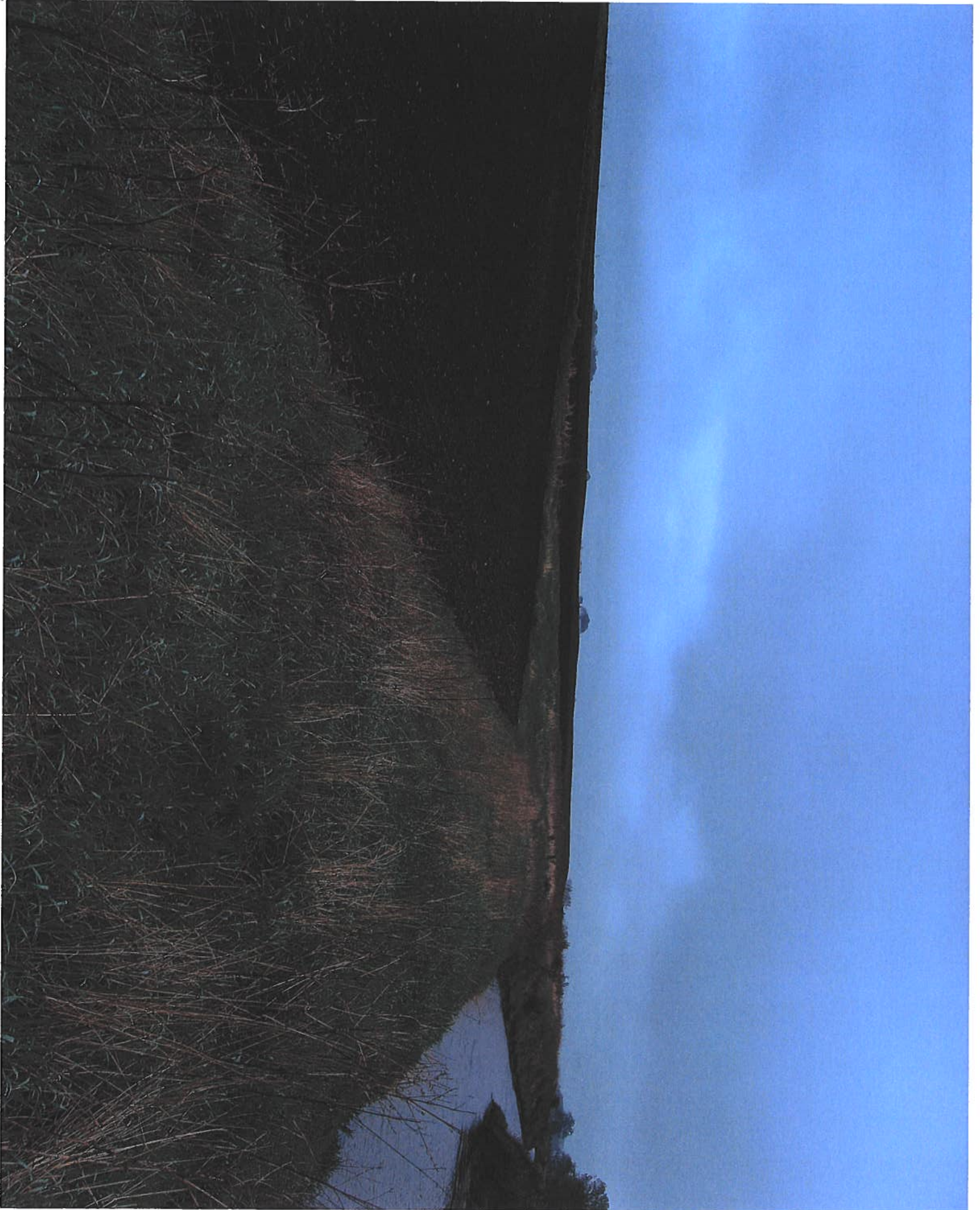
SWALE AREA @ WASH-OUT BY FENCE



BROKEN TILE OUTLET AND WASH-OUT, NEEDS 12" TILE CMP AND 24" SURF CMP



SWALE AREA IN NEED OF 24" CMP



10'+ Camp, RUSTED OUT / BROKEN, S. SIDE BIG 4



SWALE AREA TO WASH-OUT



WASH-OUT COULD USE 24" CMP SURF DRAIN, JUST WEST OF FENCE



INTAKE RISER WITH BLOW-OUT ON S. SIDE D25, MY BE DD18



STABLE WASH-OUT THANKS TO WIDE SURF SWALE



MAJOR WASH-OUT, STABIL





Drainage Work Order Request For Repair

Hardin County

Date: 3/5/2020

Work Order #: WO00000286

Drainage District: DDs\DD H-F 2 (51211)

Sec-Twp-Rge: 01-89-21 **Qtr Sec:** NW Corner, SW Corner

Location/GIS: 89-21-01-200-001

Requested By: Landon Aldinger

Contact Phone: (515) 689-1842

Contact Email: lmaldinger@gmail.com

Landowner (if different): Arlene Hamilton

Description: DD H-F 2 - Landon Aldinger reports tile is not flowing like it should, and has had standing water at odd times of the year, and excessive water this past season, unlike years past. Landon included a crop yield map. Landon is requesting investigation.

Repair labor, materials and equipment: _____

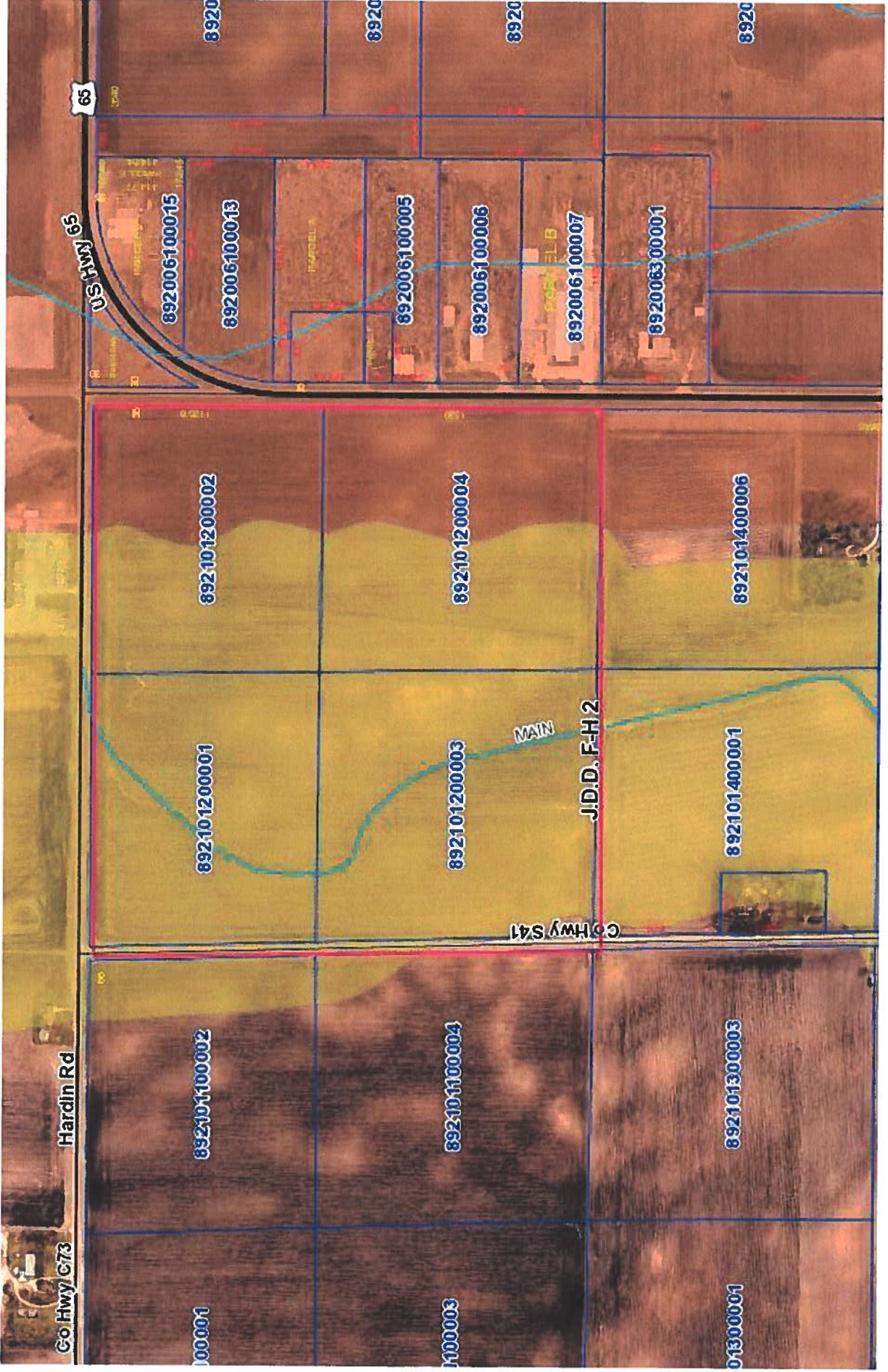
Repaired By: _____ **Date:** _____

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:** _____



65

U.S. HWY 65

Hardin Rd

Co Hwy C73

CO HWY S41

MAIN

J.D.D. F-H 2

892006100015

892006100013

892006100005

892006100006

892006100007

892006300001

892101200002

892101200004

892101400006

892101200001

892101200003

892101400001

892101100002

892101100004

892101300003

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1100003

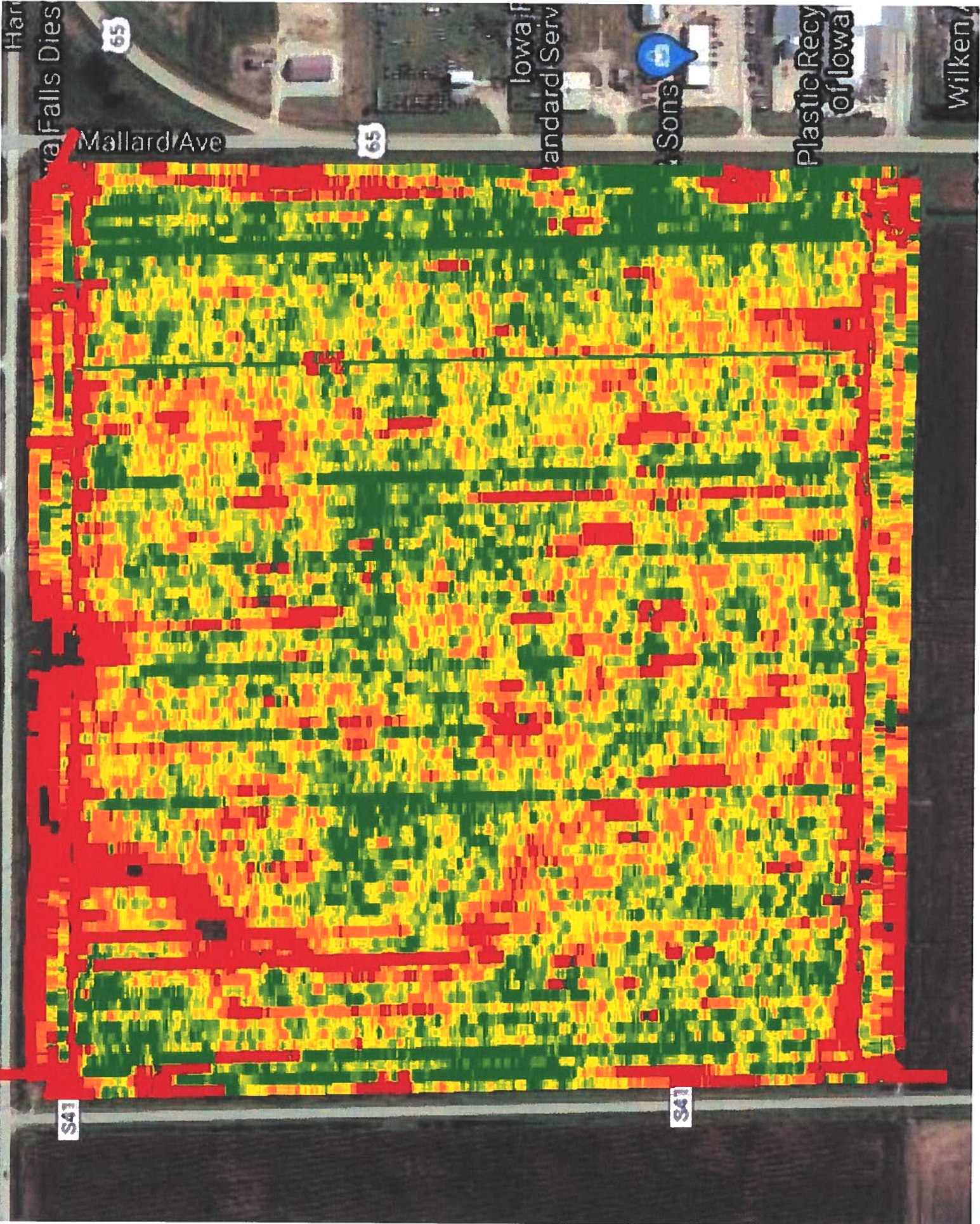
01300001

8920

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8920

8920



Har
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65
Mallard Ave
65
lowa f
andard Serv
Sons
Plastic Recy
of lowa
Wilken

S41

S41

RESOLUTION 2016-18

FRANKLIN COUNTY
INVESTIGATION OF DRAINAGE DISTRICTS PER REQUESTS

NOW, on this 31st day of May, 2016, the following resolution was presented to the Board of Supervisors acting as Drainage District Trustees:

WHEREAS, said Trustees believe that it is in the best interests of drainage districts that individuals, landowners, or entities making requests for district investigation of repairs be responsible for the costs of those investigations in the event that the source of the need for repairs would be privately owned tile and not part of the drainage district facilities or no problem is found and the drainage district facility is anything other than open ditch.

BE IT RESOLVED that in the event any individual or entity makes a request to the drainage district to investigate proposed repairs which require the district to expend funds to determine the location of needed repairs, feasibility of repairs, or any other costs incurred in connection with investigating the request and that in the event in the course of investigation it is discovered that the drainage tile or related structures needing repair are not under the drainage district's control, then the individual, landowner, or entity requesting the investigation shall be responsible for payment of any expenses incurred by the district. If said investigation results in no problem discovered, said requestor is responsible for payment of any expenses incurred by the district. This does not apply to drainage district facilities that are open ditches. If the investigation in the district finds a problem with district facilities, then said district will be responsible for payment of any expenses incurred by the district as allowed by Iowa Code.

The Board of Supervisors acting as Drainage District Trustees authorize the Franklin County Auditor to prepare the necessary form for the individual, landowner, or entity to execute prior to any investigation (except open ditches) in a form necessary to carry out the intent of this resolution.

BE IT DULY ADOPTED this 31st day of May, 2016, with the vote thereon being as follows:

AYES: Eberling, McVicker, Nolte
NAYS:
ABSENT/NOT VOTING:

I have read and agree to the terms of this Resolution:

FRANKLIN COUNTY BOARD OF SUPERVISORS

Corey Eberling
Corey Eberling, Chairman

Gary McVicker
Gary McVicker

Michael Nolte
Michael Nolte

Requestor

Date

Drainage District

ATTEST:
Michelle S. Giddings
Michelle S. Giddings, Auditor & Clerk to Board

Drainage District:

H-F #2

Investigation/Repair Summary:

- Landowner in the NE¼ of Section 1, Township 89 North, Range 21 West reported inadequate drainage performance of the Main tile, with occasional standing water which was worse over the last year.
- Visually observed the assumed Main tile route between the outlet in the NW¼ NE¼ of Section 12, and County Highway C73 (north side of the property affected) and found the following:
 - Excessive moisture was observed in the affected property near the assumed Main tile route on the south side of County Highway C73 (no intakes visible at County Highway C73).
 - The 24-inch VCP tile outlet at the concrete headwall was found to be freely flowing with some water found to be leaking along the bottom side and no rodent guard. On the upstream side of the headwall significant erosion has taken place, exposing the tile.
 - Only one area on the affected property was found to have signs of potential problems within the tile. A slight depression in the soil with tile shards on the surface were found on the side of the grass swale on the assumed Main tile route.

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

None recorded as only visual observation was performed.

Additional Actions Recommended:

Further investigation is necessary to determine what is causing the reduction in drainage for the described property. CGA recommends the following:

- Excavate at County Highway C73 north of the affected property and use a tile locator to determine if the Main tile runs beneath the areas of excessive moisture as well as to determine if any blockages exist within the flowline.
- Excavate at the location where the depression and tile shards were found to determine if a collapse may have occurred on the Main tile, and repair if necessary.

CGA also recommends that the soil at the Main tile outlet headwall be re-graded and stabilized with engineering fabric and erosion stone and a rodent guard installed at the outlet.



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

5/4/20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

6849

COUNTY, ROUTE, ROAD:

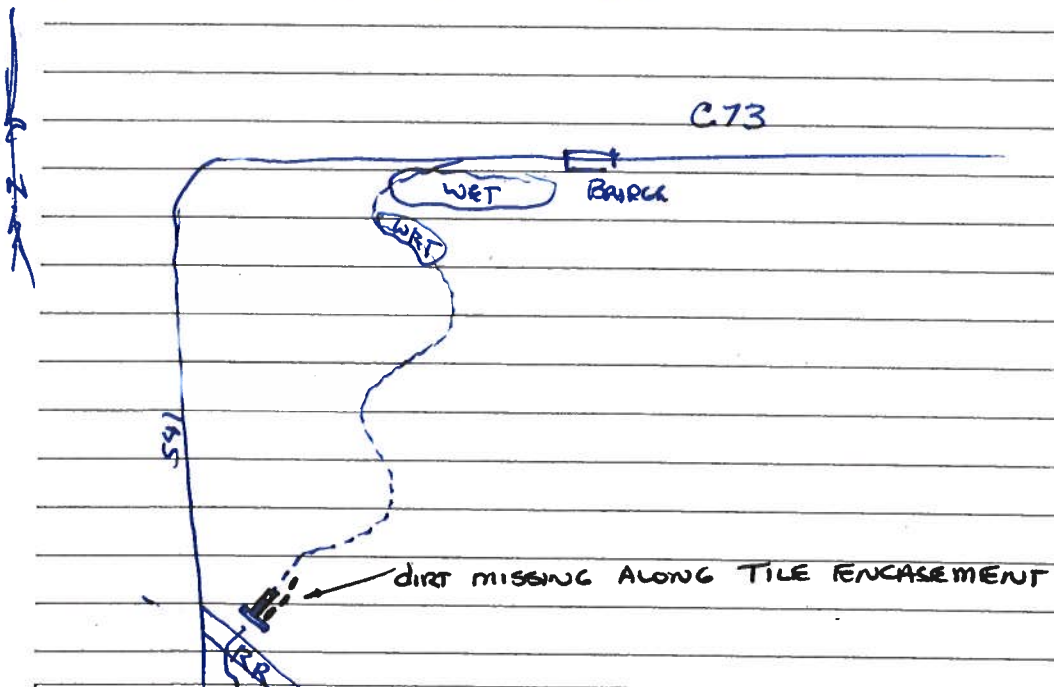
DD H-F 2

LOCATION:

Co Hwy 541 AND C73, SE Quad.

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Cloudy, 55°, Breezy From East, dry conditions
Drove to 1/4 1/4 cor. where DD H-F 2 crosses C73 @ wet spots in field. When ever it rains, water sits on both sides of C73. Could not find any intakes where I think it should cross.
Drove to south to find outlet. At old RR bridge on E. side of 541, found outlet in conc. headwall, 24" clay tile flowing cleanly and dropping into creek on N. side old RR bridge.
Clay tile is washed out with dirt missing upstream from headwall. Tile is incased in concrete. Walked upstream to investigate any problems found none. Found very few tile chards on route clearly marked out by lay of the land. To investigate further I would dig up tile @ south prop. line, locate tile to north, and measure wet spots have tile going thru them.



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

[Signature]

Date Prepared:

5/4/20

Reviewed by:

Engineer

Date Reviewed

STANDING ON OLD RR BERM, LOOKING N. @ HEADWALL



HEADWALL IS FUNCTIONING WELL, HAS LEAK @ BOTTOM TILE.



BACKSIDE OF HEADWALL, CLAY TILE IS ENCASED IN CONC



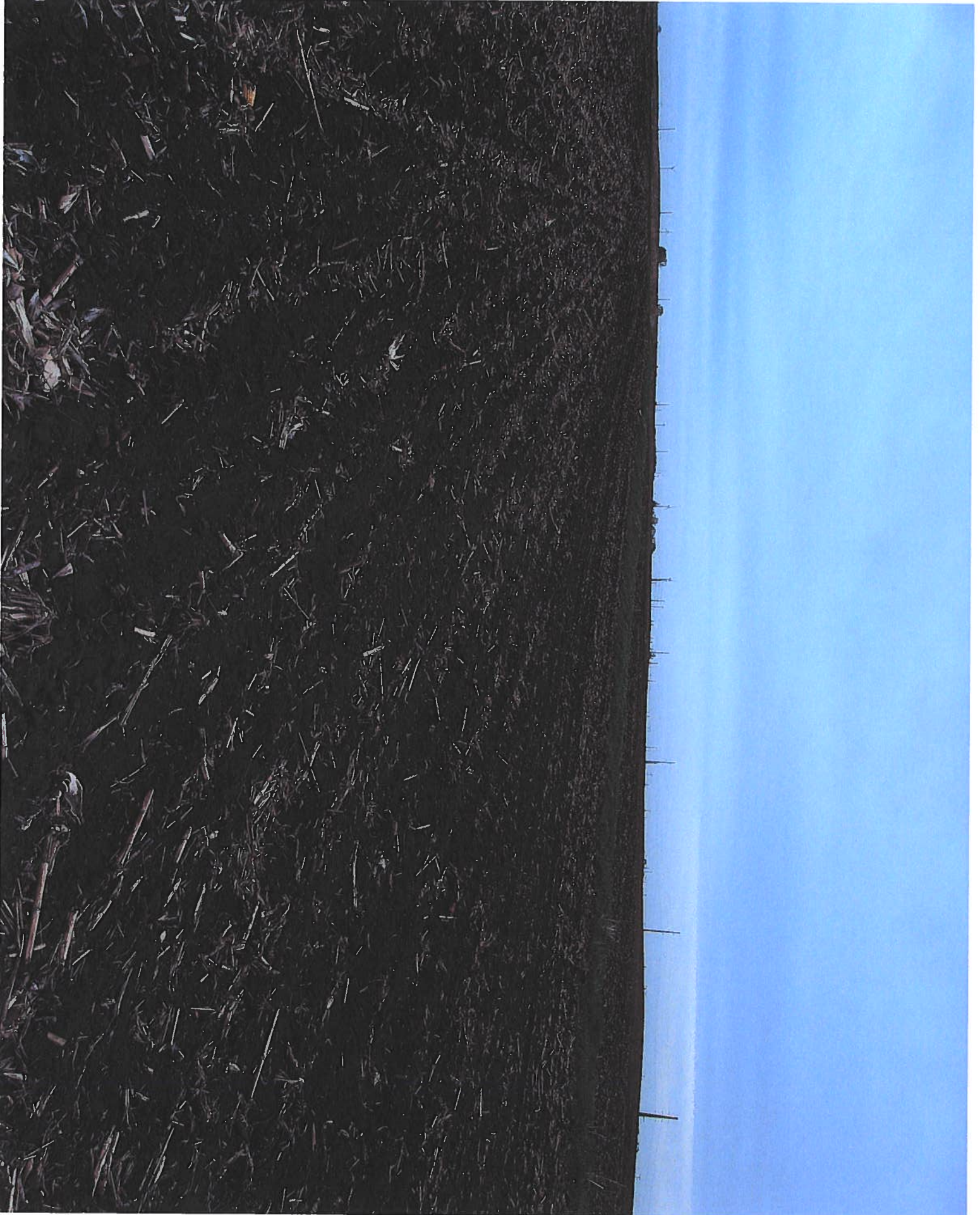
WATER ERODING CONC. ENCASUREMENT @ HEADWALL



LOOKING UPSTREAM IN GRASS SWALE



LOOKING UPSTREAM ON TILE ROUTE



LOOKING NW ON TILE ROUTE



· LOOKING NORTH, ALMOST TO LANDOONS FIELD



SLIGHT DEPRESSION WITH TILE CHARD, BIG TILE.



TILE ROUTE LOOKING N. @ (E-W) SOUTH PROP LINE



LOOKING N-W IN LANDONS FIELD Co. Hwy INTERSECTION IN BACKGROUND

