

AGENDA
REGULAR DRAINAGE MEETING
Wednesday, May 5, 2021 9:30 AM
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:

[04-14-21 DRAINAGE MINUTES.PDF](#)

4. DD 25 WO 1 - 6501 - Discuss W Possible Action - Completion Report

Documents:

[DD 25 WO 1 - 6501 COMPLETION REPORT 04_29_21.PDF](#)

5. DD 56 Upper Main Tile Diversion- Discuss W Possible Action - Consider Bids W Possible Action On Bids / Easements

Documents:

[DD 56 6830.4 BID TAB- UPPER MAIN TILE DIVERSION.PDF](#)

6. DD 17 WO 308 - Discuss W Possible Action - Investigation Summary

Documents:

[DD 17 WO 308 - INVESTIGATION SUMMARY 04_30_21.PDF](#)

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

Documents:

[DD 128 WO 279 - INVESTIGATION SUMMARY 05_04_21.PDF](#)

8. DD 48 WO 274 - Discuss W Possible Action - Investigation Summary

Documents:

[DD 48 WO 274 - 2ND INVESTIGATION SUMMARY 05_04_21.PDF](#)

9. DD 86 - Discuss W Possible Action - Landowner Concern
Report of blowout in parcel #892124100008 just NE of pond, landowner recalls a blowout

on DD tile that was repaired in 2018 near pond, he thinks this new blowout is 500' to 600' further up DD tile.

Documents:

[DD 86 - BLOWOUT MAP 05_04_21.PDF](#)

10. Discuss W Possible Action - Joint DD Drainage Assessments - Franklin Control

Documents:

[2021 JOINT DD ASSESSMENTS - FRANKLIN CONTROL - DD H-F 2 AND DD H-F 4-53.PDF](#)

11. Other Business

12. Adjourn Meeting

REGULAR DRAINAGE MEETING

Wednesday, April 14, 2021 9:30 AM

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

4/14/2021 - Minutes

1. Open Meeting

Hardin County Drainage Chairperson BJ Hoffman opened the meeting. Also present were Trustee Renee McClellan; Trustee Lance Granzow; Machel Eichmeier, Treasurer; ; Lee Gallentine, Clapsaddle-Garber Associates; Michael Pearce, Network Specialist; and Denise Smith, Drainage Clerk.

2. Approve Agenda

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

3. Approve Minutes

Motion by Granzow to approve the minutes of the Drainage District 56 Landowner Meeting dated 03-31-2021. Second by McClellan. All ayes. Motion carried.

4. Discuss W Possible Action - Stamped Warrant Interest Rate Resolution No. 2012 - 08

Smith stated back at the end of February we had some discussions about our Drainage Assessment Process and the Treasurer was involved in those discussions, at that time you had asked me to bring this back on the agenda when we had more time to discuss it, to discuss the stamped warrant interest rate. Smith did provide a copy of the most recent change in the stamped warrant interest rate, back in 2012 we went from 6.5% down to 5% interest, Smith brought this back on the agenda today to see if the Trustees had any interest in updating any of that. Granzow asked for Eichmeier's comments. Eichmeier stated she was going to reach out to other counties to see where they were at and has not gotten that done. Granzow stated they were probably mad that we dropped ours down to 5% and they may not have changed from 6% until just recently Hoffman stated he would have no problem if Eichmeier wanted to do some more research on this and fill in the blanks and let Smith know, we can bring it back on the agenda in the coming weeks. Eichmeier stated she has mixed feelings because interest rates are really low, and already 5% is more than what current rates are locally so raising it right now Eichmeier does not see any benefit. Granzow stated and that is why we pushed it down lower.

Hoffman stated the other part of him wonders, he does not want to this next week and then things are going to change, Hoffman thinks his guts says things are going to change, why keep bouncing it around, let's give it maybe 30 days or 60 days and see where we are at. Eichmeier stated or even a half a year, she does not see the need to raise it at this going in time because if they can't get financing at their local bank, that is what they are going to do if they get this huge bill, and if they can't why would we want to put it so it would put more strain on our taxpayer when Eichmeier can't get 5% anywhere, and granted it is so sporadic how we get this interest, it is not like this nice chunk of money getting 5% interest along the way, it is these little chunks of money getting 5% interest along the way, we have almost \$2,000,000 dollars invested, it kind of scares Eichmeier, especially when we are going to get our fund balance lower and we are holding onto \$2,000,000 dollars that we can't just call in. Eichmeier stated her stomach kind of goes into a knot, we are going to get it, but it is not something that if we needed, she can't pull it. Granzow asked if Eichmeier needed to, could she sell a warrant at 5% interest to anybody right now. Eichmeier stated yes. Granzow asked if Eichmeier thought she could sell a warrant at 3% interest to anybody right now. Gallentine stated yes. Eichmeier stated Gallentine said yes because he used to buy them. Gallentine stated we still get phone calls asking if we have any to sell, Gallentine stated he thinks he could sell them at 3% because it is an income tax free income, that is why at 3% you could sell them. Granzow stated that is what his threshold is to raise them. Hoffman stated what is the supply and demand, what is the fair market value, what can the market take, but if we want to have Smith print a note on her calendar to bring this back in September or October to bring this back on her calendar. Granzow asked what if we bring this back monthly, Hoffman stated it could be monthly between the Drainage Clerk and the Treasurer, if Eichmeier believes there is a trigger then we can bring it back on the agenda.

Eichmeier stated she would think if interest rates started to rise, then she feels we should revisit this and look at it a little bit closer, but at this point in time, Eichmeier thinks it would be a dis-service to our taxpayers to raise it, Granzow stated that was correct. Gallentine stated if he could interject, he thinks Eichmeier is right, there is a huge administrative burden on them because they are in such small increments. Eichmeier stated the work, time and effort that goes into managing all of this drainage is probably worth more than 5%, and Eichmeier feels the taxpayer should have that. Gallentine stated imagine having a \$2,000,000 dollar loan that is \$1,000 increments, essentially you have a loan for each \$1,000 increment, when you have \$2,000,000 worth, Gallentine cannot imagine what a burden that is. Eichmeier stated they are \$5,000 increments now, but still has many that are

\$1,000, it is kind of cumbersome, it is almost the same kind work if we sell them than if we hold them, to her, it is our benefit to keep them if we can. Eichmeier stated we are going to be getting monies coming in with assessments going out his year, last year we had very few assessments that went out, so this year with the completion of projects, we will have some money rolling in so we will get back to maybe being a little bit more square, granted every week or every other week we have bills going out to purchase more. Eichmeier stated when next September comes, we are going to have more money coming in so hopefully we will get some of those big ones recalled to hopefully dwindle them. Gallentine stated he can tell you based on once they get into private hands, it is kind of a pain to track the ownership as far as if somebody sells them and who is the new owner, Eichmeier stated it is basically an assignment.

Hoffman stated he does not know if we need a motion or just allow Eichmeier and Smith to just do their jobs. McClellan stated she thinks we just need to leave it with them until there needs to be a change made. Granzow stated please let us know when you feel you get to that trigger point, when you can't sell them anymore or you don't want to hold on to them for that low of interest. Hoffman stated if it becomes burdensome, cumbersome. Eichmeier stated we may get to the point that she feels uneasy about having them, Granzow stated we are doing 10-year loans at this interest, 10, 15 and even 20 years. Eichmeier stated yes, we have some out there for 20 years, she is hoping that most of the new ones will be 10. Hoffman stated maybe they could just go to their own bank. Eichmeier stated maybe, we didn't have any waivers last year. Smith stated she suspected we would have some waivers this year. Granzow stated maybe we should focus on some of those 20 years ones and start selling them off. Eichmeier stated she does not want to start selling them now because she does not need any extra work. Hoffman thanked Eichmeier for working with the Trustees on this. Eichmeier thanked the Trustees for being included in the conversation on this.

5. DD 56 Upper Main Tile Diversion - Discuss W Possible Action On Bids / Easements

Gallentine stated Jeff, our Right of Way agent from Marshalltown has reached out to all the landowners and talked to them, these would be the landowners we need easements form, all three are tentative maybes as far as details and costs and anything else they may want, none of them have said no flat out, so Gallentine's question is if the Trustees are ready to go into contract with Gehrke and if the easements don't pan out, you would be spending the \$8,000 for bonding is all the district would be out, or how the Trustees want to proceed. Gallentine stated we are proceeding with talking with them and what they have got right now is the comp study that Jeff has come up with, the recent sales have helped a lot, so we would like you to review this and approve it and give us a tentative approval to move forward. Gallentine stated there are two issues: we need to talk about what you want to offer moving forward and also do we want to enter into a contract right now. Granzow asked how many days are left on that contract to pay the \$8,000, Gallentine stated the bid date was March 10, and you have 60 days, so we are just shy of a month since it is the 14th now. Granzow stated he thinks we should do a landowner meeting again; we need a dollar amount, they didn't say no but they didn't say yes to that dollar amount either correct. Gallentine stated he really didn't think they said one way or another, you don't want to landowner meeting people out either, if you have to have one to figure out if they are getting the contract and one to figure out if the easement price is ok or not, Gallentine will do whatever the Trustees want.

Granzow stated easements are ready to be taken but before we move forward with Gehrke's, Granzow thinks we need an easement being locked ins tone, these are what they think dollar amounts might be, they might double them in us. Gallentine stated no this is not what they think, this is what Jeff has done as a comparable, because if Gallentine recalls correctly they did not want to do the Gehrke contract in case if one person said no right off the bat, and what Gallentine is telling you is that none of them said no, so Gallentine does not know if now is the time to talk about Gehrke contract or if you want us to keep moving and see where we are at as we get closer to May 10th. Granzow stated he thinks we can lock in that \$8,000 for the contract but we have a month to do it in, and why pay \$8,000 a month early, and now that we have not a yes, but not a no, we need to find a dollar amount. Gallentine state ok, this is what Jeff has come up with, there is a recent sale, there is a number 7 for \$13,900 an acre and if you get down to the bottom of the paragraph, what he has done for comparables is the permanent easement would be paid for 25% of the sale price, now any crop damage payments for years one through whatever would be above and beyond that. For the easement and then temp easement would be paid at 5% of that sale price, that is his suggestion, you guys can change that, edit that, tweak that however you want, but then he needs that price to be able to go back to the landowners.

Granzow stated offer it to him, is he going to be a negotiating tool for us, Gallentine stated yes. Granzow stated so in all honesty, we are in a public meeting, and anything beyond what you just showed us Granzow would not do outside of closed doors. Gallentine stated yes, essentially this is just authorizing him to off this amount to them and see what their reaction is so you just need a motion to approve it and then get it signed and get it back to him and he will go ahead and say this is what the district is offering, from there it becomes a negotiation, and it will probably become a closed session. Hoffman stated so from there, he would entertain a motion to accept this offer as a starting point.

Granzow motioned to approve the DD 56 Acquisition Valuation as a starting point for easement negotiation.

Second by McClellan.

Roll Call Vote:

Granzow: Aye

McClellan: Aye

Hoffman: Aye.

All Ayes. Motion carried.

Gallentine stated if the Clerk could get that signed and returned to Gallentine right away he will get that on to their Easements department. Smith stated she would.

Gallentine stated he has talked to a couple of landowners who own land within the districts and where this new tile will be and they are wanting to hook to this tile, with their private tile system, Gallentine told them he didn't think it would be an issue but he would check, and they were intrigued with our televising access points and they wanted those put in just so they could serve as an intake for surface water, so that tweaks the cost a little bit, but just to give you a heads up that is what some of the landowners have been requesting. Granzow asked as part of an easement. Gallentine stated yes so that will be one of those things that is above and beyond this cost. Gallentine was just happy to hear that nobody said no. McClellan stated that was true, Granzow stated that would sure kill the project pretty quick. Hoffman asked if there were any other comments, no additional comments or questions were presented.

6. Discuss W Possible Action - IDDA Membership

Smith stated that John Torbert of the IDDA has reached out to us and would like to do an annual visit with the Trustees next Wednesday at our Regular drainage Meeting at 9:30 am, and Smith has tentatively scheduled his visit for that time frame for Torbert to discuss membership benefits and current events with the IDDA. McClellan asked if we had already joined the IDDA, Smith stated yes, we have joined, this is part of our Membership benefits, he will come in once a year and visit with the Trustees to give the Trustees an update on everything they have been working on through the legislative process and everything else. McClellan stated that was okay, Hoffman stated that sounds good. Smith stated she would confirm attendance with John Torbert.

7. Other Business

Big 4 Lat 4 Work Order 309 – Smith stated she received a report of an active beaver dam in DD 51 and got the report this morning after the agenda had already been posted and did not have a chance to add it to the agenda. Smith stated this is on the very western edge of Hardin County and it is right north above a railroad track on the Lat 4 open ditch. Smith stated Tim Burton is the tenant on that parcel, Smith did confirm that, and James Crisp Trust is the owner. Smith stated Tim reports that the beaver dam is 5' high and covering up the outlet, easiest entry would be from Young Ave road and through the RR right of way. Tim is wondering if we can get someone out there to trap the beavers and remove the dam debris. Gallentine stated that for clarity that is Lateral 4 of Big 4, not DD 51, Smith stated she will correct her work order to reflect that correct district. Hoffman asked if we could recess while Smith corrects the work order or can we tentatively approve the work order. Smith stated you could tentatively approve the work order and she will receive a signature next week.

Motion by Granzow to tentatively approve DD Big 4 Lat 4 Work Order 309, with formal approval upon signature at the next Drainage Meeting on 4/21/2021. Second by McClellan. All ayes. Motion carried.

Smith asked if the Trustees would like her to reach out to Brad Mohr, licensed nuisance wildlife operator, as beaver season ends tomorrow, she can't use the other trappers if they are not in season. McClellan asked if you could trap them live and move them. Smith asked if the Trustees would like to do anything with investigation on the dam or would you like the beavers trapped out first. Granzow stated trap the beavers. Gallentine stated as of two to five years ago we had two dams in the exact same location. Hoffman stated be sure to let Mohr know that so we can get after the dam and beavers.

Hoffman stated he copied Smith in on an email from Angela Silvey that copied an email from Judy Funk on a renewal presentation on June 9th, Judy would like to present to the Board our renewal stuff, and Funk would like it at 10:30 or later and Hoffman wanted to make sure we coordinate that with Smith today. Smith stated you can move Drainage to any time that day, Hoffman stated let's plan on having the regular 9:30 time and having a brief meeting and if we had to, we could recess, but if there is way, we could make sure the agenda isn't huge that day. McClellan asked how long Funk might need. Granzow stated it is usually an hour or so. Smith asked for the date, Hoffman stated June 9th, Smith stated we can do drainage at 9:30 and she can keep the agenda brief.

Hoffman stated he copied Smith in on an email from Angela Silvey that copied an email from Judy Funk on a renewal presentation on June 9th, Judy would like to present to the Board our renewal stuff, and Funk would like it at 10:30 or later

and Hoffman wanted to make sure we coordinate that with Smith

8. Adjourn Meeting

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

HARDIN COUNTY, IOWA

2021



**COMPLETION REPORT
ON REPAIRS TO
MAIN TILE &
LATERAL 3 TILE,
DRAINAGE DISTRICT 25
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

LEE O. GALLENTE, P.E.

DATE

LICENSE NUMBER: 15745
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022
PAGES OR SHEETS COVERED BY THIS SEAL:
SHOWN ON TABLE OF CONTENTS

CGA
ENGINEERS • LAND SURVEYORS

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 Ryken Engineering to investigate and report concerning repairs and improvements to the Lateral 3 tile, Drainage District No. 25. As a result, Ryken Engineering generated an Engineer's Report dated April 21, 2015 summarizing past improvements and repairs, investigating the necessity and feasibility of repairs or improvements to the Lateral 3 tile, and presenting opinions of construction costs associated with said repairs and improvements. The Engineer's Report was presented at the June 17, 2015 hearing with the District Trustees and landowners. At this hearing, action was tabled until an Engineer's Report concerning improvements to the Main tile could be completed. An Engineer's Report dated April 12, 2016 summarizing past improvements and repairs, investigating the necessity and feasibility of improvements to the Main tile, and presenting opinions of construction costs associated with said improvements. At the hearing conducted on June 8, 2016, a remonstrance was filed stopping the improvement portion of the reports. However, at this hearing there was support for the repairs of the Lateral 3 tile and Main tile. As a result, the Trustees authorized Ryken Engineering to proceed with completion of project plans and specifications for the repair portions of the project (as presented in said reports and discussed at the hearings) and proceed with a bid letting.

Ryken Engineering completed the authorized plans and specifications and a bid letting of March 8, 2017 was set. Bids were received and a contract was entered into. However, a permit to cross the UPRR was never approved by the UPRR due to their lack of response and shifting review comments. Therefore, this contract was canceled. After finally receiving an approved permit from the UPRR, Clapsaddle Garber Associates revised the plans and specifications, the project was combined with a repair in Drainage District 1, and a bid letting date of February 13, 2019 was set. The project was advertised, and bids were received from qualified contractors. The following bids for said repairs for this district were received:

	Contractor	Bid Amount
1.	McDowell and Sons Contractors Inc	\$194,931.30
2.	Gehrke Inc	\$383,821.25

The District Trustees identified McDowell and Sons Contractors Inc as the lowest responsible bidder for the joint project and awarded the project to them. The contract was signed on March 18, 2019. Construction activities for the entire contract were started on September 16, 2019. During the construction period, the weather was primarily favorable for construction, but several project scope changes and additional UPRR permitting requirements occurred. However, substantial completion for the entire contract was achieved on August 13, 2020 (approximately 2 weeks before the latest contract completion date).

Project Deviations

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

1. During construction of the Lateral 3 tile, the casing pipe under the UPRR right of way required changes due to UPRR comments. This resulted in no change in the contract price, but a change in the substantial completion date to April 1, 2020.
2. During construction of the Lateral 3 tile, it was discovered that there were actually 2 tiles (1 private and 1 district) crossing the UPRR in the vicinity of construction. As a result, the proposed crossing was upsized to accommodate both tiles. This resulted in an increase of \$25,605.00 and a change in the substantial completion date to June 30, 2020.
3. During construction of the Lateral 3 tile, it was discovered that the deeper tile (described above) did not have an outlet and was not connected to the Main tile. As a result, an outlet to the Main tile at the correct elevation had to be constructed. This resulted in an increase of \$45,223.75 and no change to the substantial completion date.
4. For a brief period during construction of the Lateral 3 tile, the weather conditions were not favorable for construction and the additional pipe footage required additional time to install. This resulted in no change in the contract price, but a change in the substantial completion date to July 31, 2020.
5. During construction of the Lateral 3 tile, the boring contractor was delayed and the additional pipe footage required additional time to install. This resulted in no change in the contract price, but a change in the substantial completion date to August 31, 2020.
6. During construction of the Lateral 3 tile, CCTV was not able to be performed east of the UPRR and the tenant/landowner of the same requested that the existing tile not be removed. This resulted in a decrease of \$2,976.00 and no change to the substantial completion date.
7. After construction of the Lateral 3 tile, small discrepancies between the bid/change order quantities and the actual construction were rectified. This resulted in a decrease of \$4,204.55 and no change to the substantial completion date.

Final Project Costs

The final project costs for construction (for reference see DD 25 sections on the final pay estimate included in Appendix N) and engineering (not including reports or reclassification) are estimated at \$368,579.50, which is approximately \$172,829.50 more 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:

Main tile and Lat 3 tile	Project as bid by Contractor	\$194,931.30
	Item #2 (above)	(+)\$25,605.00
	Item #3 (above)	(+)\$45,223.75
	Item #6 (above)	(-)\$2,976.00
	Item #7 (above)	(-)\$4,204.55
	Engineering	(+)\$110,000.00
	TOTAL PROJECT COST	\$368,579.50

The total project cost is above those opinions of cost contained within said Engineer's Report. However, the scope of the final project far exceeded those discussed at the hearings (i.e. upsized Lateral 3 crossing, installation of outlet for Lateral 3 tile to Main tile, spot repairs to Main tile, enhanced UPRR crossing requirements, prolonged UPRR crossing review, etc) and all these costs were approved/acknowledged by the District Trustees as they occurred. It should be noted that the above costs do not include any permit fees, administrative costs, legal costs, interest on construction warrants, or damage claims.

Damages

During construction, some damages were incurred by the three property owners crossed with construction of the Lateral 3 tile on this project. These damages consisted of actual damage of standing crops. The landowners and areas are as follows:

Property Owner	Crop Damage Area (ac)
Leland A and Karen S Coburn Trust	0.7
David A Fincham	2.2
Torgeson Farms Inc	2.0

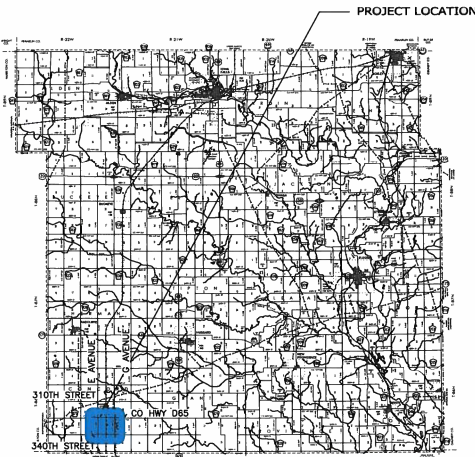
Also during construction, some the fence between David A Fincham and Torgeson Farms Inc was removed and was not replaced. However, the contractor supplied a statement (for reference see Appendix O) from David A Fincham's tenant that the fence did not need replaced. It is our recommendation that landowners or their tenants be paid for crop damage claims consistent with the above acres and any other damage claims filed be evaluated on an individual basis by the District Trustees.

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 P). After the completion hearing, final payment of \$25,830.95 needs to be authorized by the Trustees highlighted orange on the final pay estimate. 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.

REPAIRS TO MAIN TILE AND LATERAL 3 TILE DRAINAGE DISTRICT 25 HARDIN COUNTY, IOWA 2019

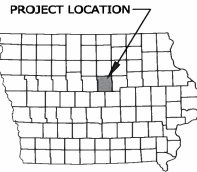
AS-BUILT



HARDIN COUNTY,
IOWA VICINITY MAP
NOT TO SCALE

NOTES:

1. THE PLANS AND SPECIFICATIONS PREPARED BY CLAPSADDLE-GARBER ASSOCIATES SHALL GOVERN. ALL WORK SHALL COMPLY WITH THE DETAILS AND SPECIFICATIONS REFERENCED.
2. ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON 2010 SURVEY. FOR CONVERSION TO OTHER PROJECT DATUMS, SEE "BENCHMARKS" ON PAGE 2.
3. THE APPLICANT/CONTRACTOR IS NOT APPROVED TO GO TO WORK UNTIL THE APPLICANT/CONTRACTOR HAS NOTIFIED THE RAILROAD AND SECURED A CURRENT "CALL BEFORE YOU DIG" DIG TICKET AT 1-800-336-9163



SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND - NOTES - ABBREVIATIONS - VISUAL INDEX - BENCHMARKS
3	DEMO PLAN
4	LATERAL 3 PLAN
5	PROFILE - ABANDONMENT
6	LATERAL 3 PROFILE
7	ENLARGED CROSSING PLAN
8	MAIN SPOT - REPAIRS PLAN
9	DETAILS
10	DETAILS
11	UPRR - GENERAL NOTES
12	SOUTH PORTION PLAN + PROFILE



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.

Lee O. Gallentine
LEE O. GALLENTE, P.E. DATE 12/25/2019

P.E. LICENSE NUMBER: 15745
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022
PAGES OR SHEETS COVERED BY THIS SEAL: 1-11

DATE IN:	ZLS	APPROVED BY:	LOG	REVISION:	5/28/17 UPRR COMMENTS
DATE:	01/20/2017	PROJ. NO.:	8501	REVISION:	2/7/18 UPRR COMMENTS
FILE NO.:				REVISION:	10/22/18 UPRR COMMENTS
FILE NO.:	CV180714281/228/ASBUILT/8501-COVER.DWG			REVISION:	12/18/2019



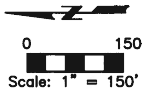
Clapsaddle-Garber Associates, Inc.
Main Office: 18 East Main Street
Masonville, Iowa 50158
PH 641-725-2671
www.clapsaddle.com

PROJECT: 739 PARK AVENUE
ACKLEY, IOWA 50601
PH 641-847-3273 FAX 641-847-2303

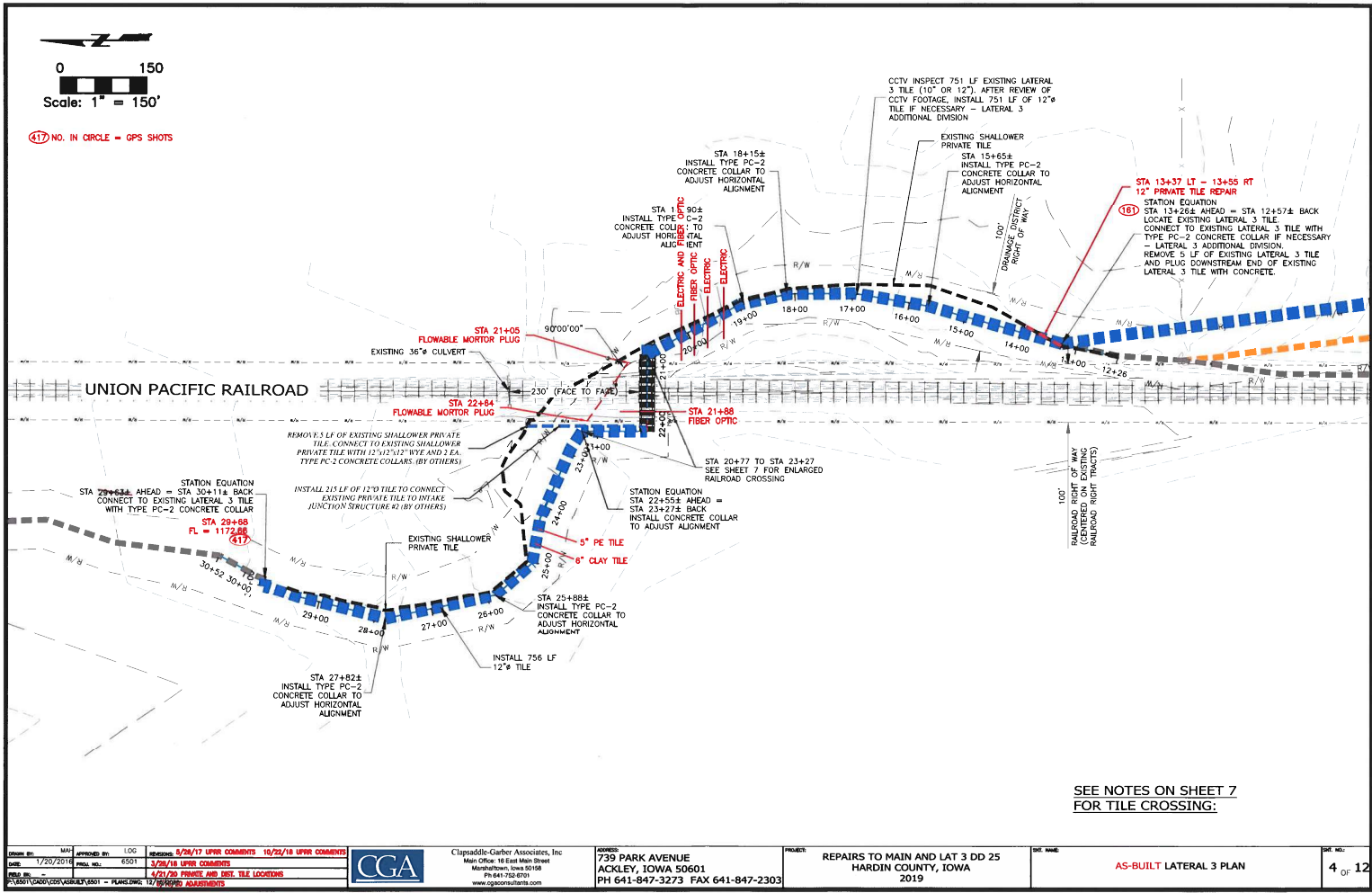
PROJECT: REPAIRS TO MAIN AND LAT 3 DD 25
HARDIN COUNTY, IOWA
2019

SHEET NAME: COVER SHEET

SHEET NO.: 1 OF 11



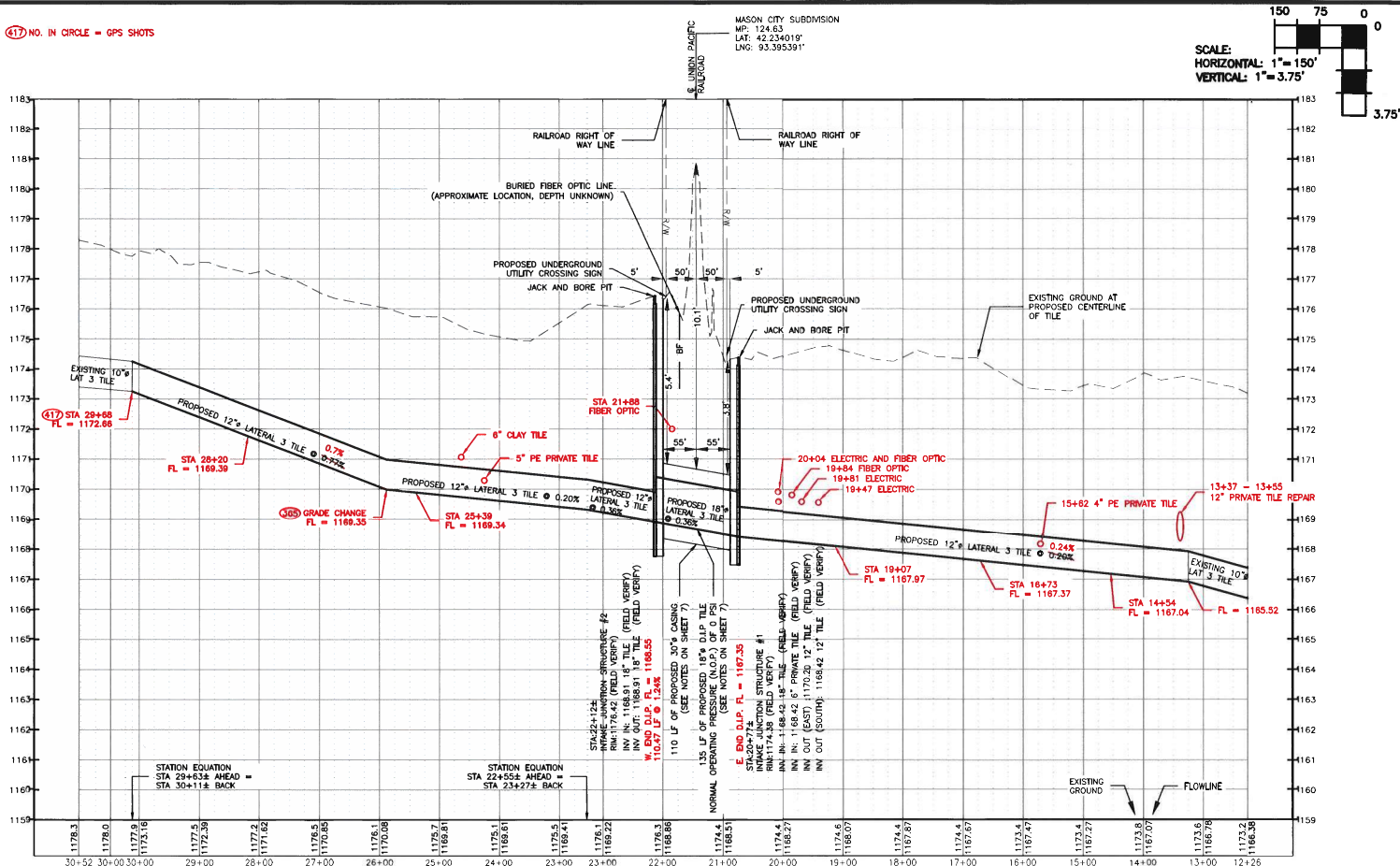
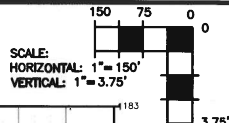
17 NO. IN CIRCLE = GPS SHOTS



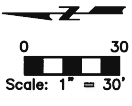
SEE NOTES ON SHEET 7 FOR TILE CROSSING:

DRAWN BY: MHA CHECKED BY: ESD DATE: 1/23/2014 PROJECT: 4/21/2018 FINISH AND DET. TILE LOCATIONS PLAN: 12/16/2018 ADJUSTMENTS		CLippaciddle-Carber Associates, Inc. Main Office: 16 East Main Street Marshalltown, Iowa 50158 PH 641-752-8701 www.cgaonline.com	OWNER: 739 PARK AVENUE ACKLEY, IOWA 50601 PH 641-847-3273 FAX 641-847-2303	PROJECT: REPAIRS TO MAIN AND LAT 3 DD 25 HARDIN COUNTY, IOWA 2019	DATE PLOTTED: AS-BUILT LATERAL 3 PLAN 4 OF 12
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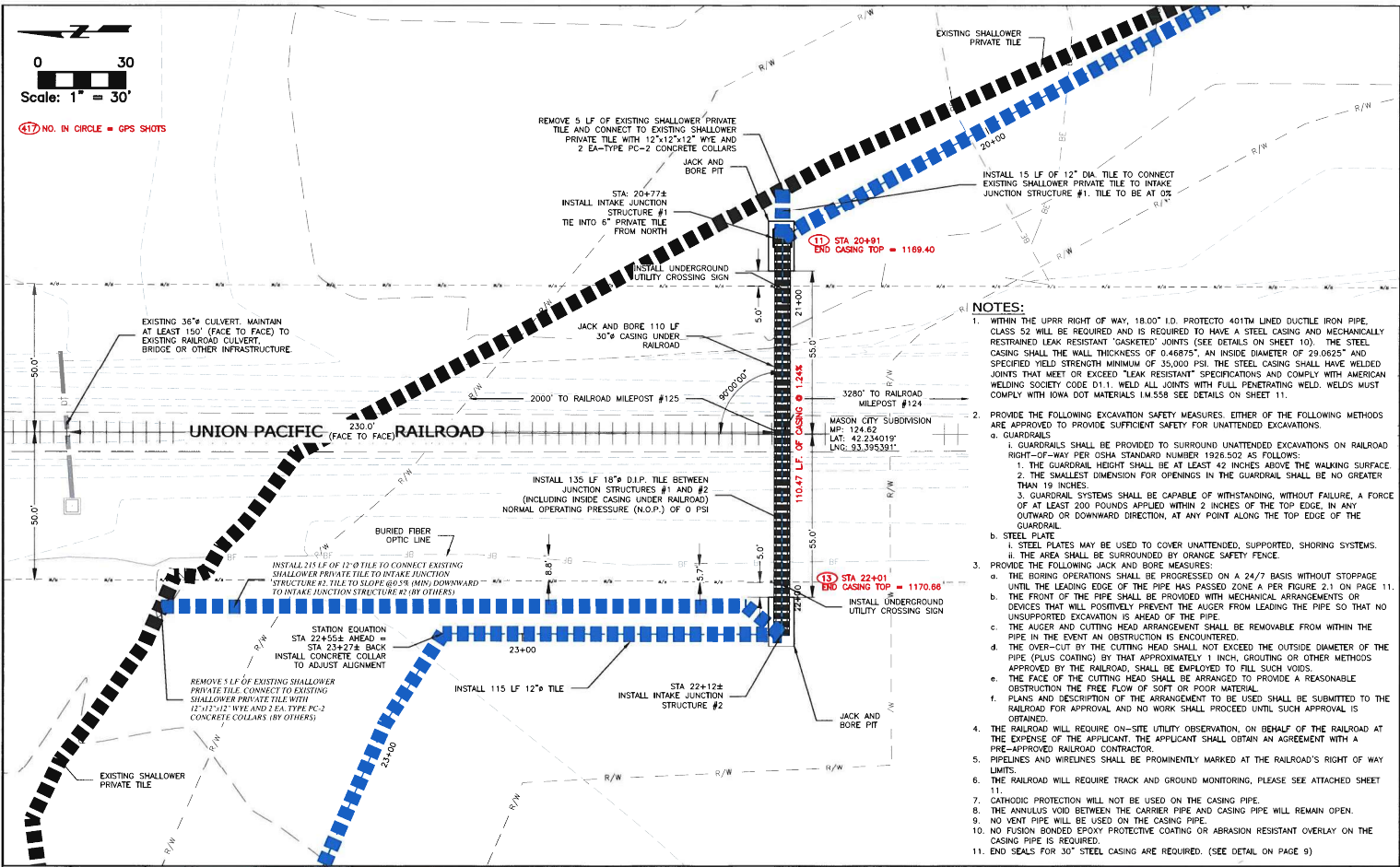
417 NO. IN CIRCLE = GPS SHOTS



DRAWN BY: MWH DATE: 1/23/2018 PROJECT: 10/22/18 UPR COMMENTS PLAN: 12/18/2020	APPROVED BY: CGA DATE: 5/28/17 UPR COMMENTS DATE: 3/26/18 UPR COMMENTS DATE: 4/21/20 PERMITS AND TEST TILE LOCATIONS DATE: 6/19/20 ADJUSTMENTS	Clipshaddie-Gerber Associates, Inc. Main Office: 18 East Main Street Marshalltown, Iowa 50158 PH 641-754-6701 www.clipshaddie.com	PROJECT: 739 PARK AVENUE ACKLEY, IOWA 50601 PH 641-847-3273 FAX 641-847-2303	PROJECT: REPAIRS TO MAIN AND LAT 3 DD 25 HARDIN COUNTY, IOWA 2019	SHEET NO.: AS-BUILT LATERAL 3 PROFILE 6 OF 12
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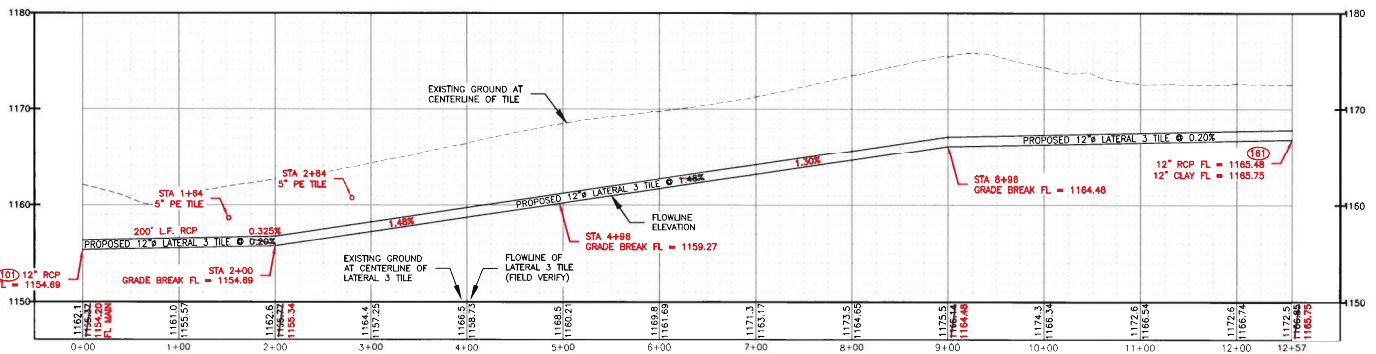
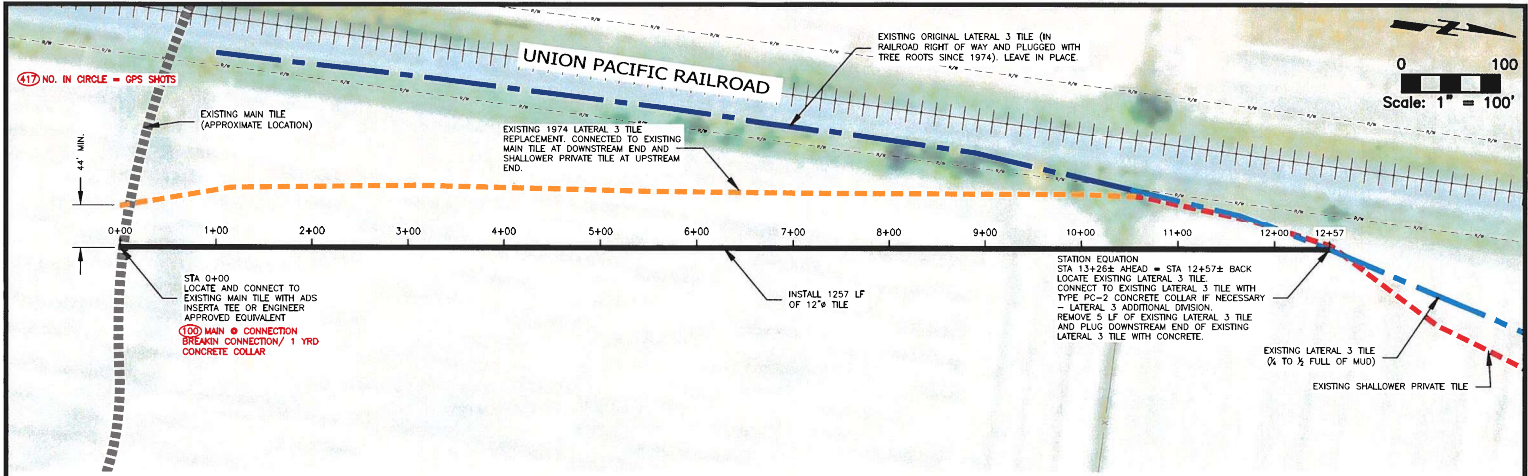


(417) NO. IN CIRCLE = GPS SHOTS



- NOTES:**
- WITHIN THE UPRR RIGHT OF WAY, 18.00' I.D. PROTECTO 401M LINED DUCTILE IRON PIPE, CLASS 52 WILL BE REQUIRED AND IS REQUIRED TO HAVE A STEEL CASING AND MECHANICALLY RESTRAINED LEAK RESISTANT GASKEDED JOINTS (SEE DETAILS ON SHEET 10). THE STEEL CASING SHALL HAVE A WALL THICKNESS OF 0.46875", AN INSIDE DIAMETER OF 29.0655" AND SPECIFIED YIELD STRENGTH MINIMUM OF 35,000 PSI. THE STEEL CASING SHALL HAVE WELDED JOINTS THAT MEET OR EXCEED "LEAK RESISTANT" SPECIFICATIONS AND COMPLY WITH AMERICAN WELDING SOCIETY CODE D11. WELD ALL JOINTS WITH FULL PENETRATING WELD. WELDS MUST COMPLY WITH IOWA DOT MATERIALS 14.558 (SEE DETAILS ON SHEET 11).
 - PROVIDE THE FOLLOWING EXCAVATION SAFETY MEASURES, EITHER OF THE FOLLOWING METHODS ARE APPROVED TO PROVIDE SUFFICIENT SAFETY FOR UNATTENDED EXCAVATIONS.
 - GUARDRAILS
 - GUARDRAILS SHALL BE PROVIDED TO SURROUND UNATTENDED EXCAVATIONS ON RAILROAD RIGHT-OF-WAY PER OSHA STANDARD NUMBER 1926.502 AS FOLLOWS:
 - THE GUARDRAIL HEIGHT SHALL BE AT LEAST 42 INCHES ABOVE THE WALKING SURFACE
 - THE SMALLEST DIMENSION FOR OPENINGS IN THE GUARDRAIL SHALL BE NO GREATER THAN 19 INCHES.
 - GUARDRAIL SYSTEMS SHALL BE CAPABLE OF WITHSTANDING, WITHOUT FAILURE, A FORCE OF AT LEAST 200 POUNDS APPLIED WITHIN 2 INCHES OF THE TOP EDGE, IN ANY OUTWARD OR DOWNWARD DIRECTION, AT ANY POINT ALONG THE TOP EDGE OF THE GUARDRAIL.
 - STEEL PLATE
 - STEEL PLATES MAY BE USED TO COVER UNATTENDED, SUPPORTED, SHORING SYSTEMS.
 - THE AREA SHALL BE SURROUNDED BY ORANGE SAFETY FENCE.
 - PROVIDE THE FOLLOWING JACK AND BORE MEASURES:
 - THE BORING OPERATIONS SHALL BE PROGRESSED ON A 24/7 BASIS WITHOUT STOPPAGE UNTIL THE LEADING EDGE OF THE PIPE HAS PASSED ZONE A PER FIGURE 2.1 ON PAGE 11.
 - THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.
 - THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM WITHIN THE PIPE IN THE EVENT AN OBSTRUCTION IS ENCOUNTERED.
 - THE OVER-CUT BY THE CUTTING HEAD SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE PIPE (PLUS COATING) BY THAT APPROXIMATELY 1 INCH, GRROUTING OR OTHER METHODS APPROVED BY THE RAILROAD, SHALL BE EMPLOYED TO FILL SUCH VOIDS.
 - THE FACE OF THE CUTTING HEAD SHALL BE ARRANGED TO PROVIDE A REASONABLE OBSTRUCTION THE FREE FLOW OF SOFT OR POOR MATERIAL.
 - PLANS AND DESCRIPTION OF THE ARRANGEMENT TO BE USED SHALL BE SUBMITTED TO THE RAILROAD FOR APPROVAL AND NO WORK SHALL PROCEED UNTIL SUCH APPROVAL IS OBTAINED.
 - THE RAILROAD WILL REQUIRE ON-SITE UTILITY OBSERVATION, ON BEHALF OF THE RAILROAD AT THE EXPENSE OF THE APPLICANT. THE APPLICANT SHALL OBTAIN AN AGREEMENT WITH A PIPE-APPROVED RAILROAD CONTRACTOR.
 - PIPELINES AND WIRELINES SHALL BE PROMINENTLY MARKED AT THE RAILROAD'S RIGHT OF WAY LIMITS.
 - THE RAILROAD WILL REQUIRE TRACK AND GROUND MONITORING, PLEASE SEE ATTACHED SHEET 11.
 - CATHODIC PROTECTION WILL NOT BE USED ON THE CASING PIPE.
 - THE ANNULUS VOID BETWEEN THE CARRIER PIPE AND CASING PIPE WILL REMAIN OPEN.
 - NO VENT PIPE WILL BE USED ON THE CASING PIPE.
 - NO FUSION BONDED EPOXY PROTECTIVE COATING OR ABRASION RESISTANT OVERLAY ON THE CASING PIPE IS REQUIRED.
 - END SEALS FOR 30" STEEL CASING ARE REQUIRED. (SEE DETAIL ON PAGE 9)

DATE: 1/20/2016 DRAWN BY: [redacted] CHECKED BY: [redacted] PROJECT: REPAIRS TO MAIN AND LAT 3 DD 25 LOCATION: HARDIN COUNTY, IOWA YEAR: 2019	APPROVED BY: [redacted] DATE: 5/28/17 UPRR COMMENTS - 5/27/18 UPRR COMMENTS DATE: 4/21/20 UPRR COMMENTS - 10/27/18 UPRR COMMENTS DATE: 4/21/20 PRIVATE AND BEST TILE LOCATIONS	Clapsaddle-Garber Associates, Inc. Main Office: 18 East Main Street Marshalltown, Iowa 50158 PH 641-752-8715 www.cgaconsultants.com	PROJECT: REPAIRS TO MAIN AND LAT 3 DD 25 LOCATION: HARDIN COUNTY, IOWA YEAR: 2019	SHEET NO.: AS-BUILT ENLARGED CROSSING PLAN OF 12
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sheet no. 12 date 2020-03-31 project name PLANS - ADDITIONAL WORK DWS, 12/14/2020	Clapsaddle-Garber Associates, Inc. Main Office: 18 East Main Street Marshalltown, Iowa 50158 PH 641-752-0751 www.cgaconsultants.com	address 739 PARK AVENUE ACKLEY, IOWA 50601 PH 641-847-3273 FAX 641-847-2303	project REPAIRS TO MAIN AND LAT 3 DD 25 HARDIN COUNTY, IOWA 2020	sheet name SOUTH PORTION LATERAL 3 AS-BUILT PLAN AND PROFILE	sheet no. 12 OF 12
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PAY ESTIMATE NO. 7
REPAIRS TO MAIN TILE AND LATERAL 3 DD#25 & REPAIRS TO MAIN TILE DD#1, HARDIN CO.
PROJECT NUMBER: 6501
DATE: 4-2-21

CONTRACTOR
 McDowell and Sons Contractors, Inc.
 10214 Hwy 65
 Iowa Falls, Iowa 50126

OWNER
 Trustees of Drainage District #25 & DD#1
 Hardin County Courthouse
 1215 Edgington Ave., Suite 1
 Eldora, Iowa 50627

ENGINEER
 Clapsaddle-Garber Associates
 739 Park Avenue
 Ackley, Iowa 50601

Item No.	Description	Estimated Quantity	Unit	Installed Quantity	Unit Price	Extended Price
DISTRICT BASE BID ITEMS						
1	24" Ø RCP Tile	260	LF	260	\$ 70.00	\$ 18,200.00
2	Type PC-2 Concrete Collar	14	EA	14	\$ 500.00	\$ 7,000.00
3	Private Tile Connection	2	EA	2	\$ 600.00	\$ 1,200.00
4	Tile Removal	260	LF	260	\$ 10.00	\$ 2,600.00
5	Permanent Seeding	0.3	AC	0.3	\$ 3,500.00	\$ 1,050.00
6	Seeding Warranty	1	LS	1	\$ 1,000.00	\$ 1,000.00
LATERAL 3 DIVISION ALTERNATE BID						
101ALT	12" Ø RCP Tile	780	LF	819.9	\$ 38.00	\$ 31,156.20
102ALT*	24" Ø Steel Casing (Jack & Bore)	0	LF	0	\$ 380.00	\$ -
103ALT*	12" Ø DIP Tile	0	LF	0	\$ 77.00	\$ -
104ALT^^	Intake Junction Structure	2	EA	2	\$ 1,750.00	\$ 3,500.00
105ALT^^	CCTV Tile Inspection	0	LF	0	\$ 3.25	\$ -
106ALT	Type PC-2 Concrete Collar	4	EA	3	\$ 350.00	\$ 1,050.00
107ALT	Private Tile Connection	4	EA	3	\$ 600.00	\$ 1,800.00
108ALT^^	Grading	1	STA	1	\$ 350.00	\$ 350.00
109ALT^^	Tile Removal	363	LF	363	\$ 6.00	\$ 2,178.00
110ALT^^	Tile Abandonment	100	LF	100	\$ 14.00	\$ 1,400.00
111ALT^^	12" Ø Hickenbottom Intake	0	EA	0	\$ 1,000.00	\$ -
112ALT	RR Permitting, Flagging, Insurance, Coordination	1	LS	1	\$ 6,500.00	\$ 6,500.00
113ALT^^	Locate Existing	14.74	STA	14.74	\$ 90.00	\$ 1,326.60
114ALT^^	Intake Removal	0	EA	0	\$ 300.00	\$ -
115ALT^^	30" Ø Steel Casing (Jack & Bore)	110.5	LF	110.5	\$ 560.00	\$ 61,880.00
116ALT^^	18" Ø DIP Tile	135.2	LF	135.2	\$ 120.00	\$ 16,224.00
117ALT^^	10" Ø Private Tile Repair	27.8	LF	27.8	\$ 25.00	\$ 695.00
LATERAL 3 DIVISION ADDITIONAL ALTERNATE BID						
201ALT***	12" Ø RCP Tile	756.3	LF	756.3	\$ 38.00	\$ 28,739.40
202ALT	Type PC-2 Concrete Collar	4	EA	4	\$ 350.00	\$ 1,400.00
203ALT^^	Private Tile Connection	3	EA	2	\$ 600.00	\$ 1,200.00
204ALT	Grading	1	STA	0.5	\$ 350.00	\$ 175.00
205ALT**	Tile Removal	0	LF	0	\$ 6.00	\$ -
206ALT^^	12" Ø Hickenbottom Intake	0	EA	0	\$ 1,000.00	\$ -
207ALT^^	Locate Existing Lateral Tile	21.2	STA	21.2	\$ 90.00	\$ 1,908.00
208ALT^	CCTV Mobilization	1	LS	1	\$ 1,530.00	\$ 1,530.00
209ALT^^	10" Ø Private Tile Repair	75.2	LF	75.2	\$ 25.00	\$ 1,880.00
LATERAL 3 DIVISION SOUTH PORTION BID						
401ALT**	12" Ø RCP Tile	1257	LF	1257	\$ 47.00	\$ 59,079.00
402ALT***	Type PC-2 Concrete Collar	1	EA	1	\$ 350.00	\$ 350.00
403ALT**	Tile Removal	5	LF	5	\$ 9.00	\$ 45.00
404ALT^^	5" Ø Private Tile Repair	18.7	LF	18.7	\$ 10.00	\$ 187.00
405ALT^^	Locate Existing Lateral Tile	12.57	STA	12.57	\$ 90.00	\$ 1,131.30
MAIN 1 DIVISION BID						
301	24" Ø Polypropylene Tile	123	LF	123	\$ 55.00	\$ 6,765.00
302	34" Ø Steel Casing (Jack & Bore)	50	LF	50	\$ 707.00	\$ 35,350.00
303	22 1/2" x 24" Ø Polypropylene Bend	3	EA	3	\$ 450.00	\$ 1,350.00
304	11 1/4" x 24" Ø Polypropylene Bend	1	EA	1	\$ 450.00	\$ 450.00
305	Intake Junction Structure	1	EA	1	\$ 1,750.00	\$ 1,750.00
306	Type PC-2 Concrete Collar	1	EA	1	\$ 350.00	\$ 350.00
307	Private Tile Connection	1	EA	1	\$ 600.00	\$ 600.00
308	Grading	2	STA	2	\$ 350.00	\$ 700.00
309	Tile Removal	49	LF	49	\$ 10.00	\$ 490.00
310^^	Tile Abandonment	58.5	LF	58.5	\$ 25.00	\$ 1,462.50
311	Traffic Control	1	LS	1	\$ 1,650.00	\$ 1,650.00
312	Seeding	0.3	AC	0.3	\$ 3,500.00	\$ 1,050.00
313	Seeding Warranty	1	LS	1	\$ 1,000.00	\$ 1,000.00
314	12" Ø Hickenbottom Intake	1	EA	1	\$ 1,000.00	\$ 1,000.00

I have reviewed the work claimed to be completed by the Contractor as reflected above and recommend payment of \$ 31,857.70 to the Contractor.


 Leg Gallentine, Project Engineer


 Alan M. Dowell, Contractor

TOTAL WORK COMPLETED TO DATE \$ 310,702.00
 10% RETENTION \$ -
 AMOUNT DUE LESS RETENTION \$ 310,702.00
 PREVIOUSLY PAID \$ 278,844.30
 AMOUNT DUE AT THIS TIME \$ 31,857.70

Note: For pay estimate #1, \$26,696.97 was for DD 25.
 For pay estimate #2, \$1,845.00 was for DD 25.
 For pay estimate #3, \$46,095.75 was for DD 1.
 For pay estimate #4, \$56,584.17 was for DD 25.
 For pay estimate #5, \$143,781.84 was for DD 25.
 For pay estimate #6, \$3,840.57 was for DD 25.
 For pay estimate #7, \$25,830.95 was for DD 25 and \$6,026.75 was for DD 1.

* - Approved as part of Change Order #2
 ** - Approved as part of Change Order #3
 ^ - Approved as part of Change Order #6
 ^^ - Approved as part of Change Order #7



McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

January 11th, 2021

David Fincham or
Alvin Clark
32786 County Hwy S27
Garden City, IA

RE: Construction of DD#25 Fence Line

I ALVIN CLARK understand and agree to the following:

The fence line that was removed during the construction of DD#25 does not need to be replaced.

Alvin Clark
Signature

1-11-21
Date

McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as:

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.5

The undersigned acknowledges further that said amount: Six hundred forty-three dollars and 50/100th dollars (\$643.50) is full payment for all labor, skill or material provided by the undersigned at said premises for invoices #20-2278, 20-2049, and 20-2442.

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.

The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property.

Vendor: KAHN TILE SUPPLY LLC

By:

Title:

Subscribed and sworn to before me this 16 day of October, 2020

Notary Public:

My Commission expires:

Please sign and return to:
McDowell and Sons Contractors, Inc.
P.O. Box 664
Iowa Falls, IA 50126



McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.5

The undersigned acknowledges further that said amount: Seven thousand ninety-nine and 21/100th dollars (\$7,099.21) is full payment for all labor, skill or material provided by the undersigned at said premises for invoices #26901531, 27166554, 27271248, 28178326, 28221740, 28926400, 29150696, 29051514, 29087588, 29202843, 29239707, 29373136, 29511146, 29540696, 29577248.

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.


The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property

Vendor: MARTIN MARIETTA MATERIALS

By: 

Title: SR CREDIT REP.

Subscribed and sworn to before me this 13th day of OCTOBER, 2020

Notary Public: 

My Commission expires



Please sign and return to
McDowell and Sons Contractors, Inc
P.O. Box 664
Iowa Falls, IA 50126

McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as:

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.6

The undersigned acknowledges further that said amount: Forty-five thousand forty dollars and 68/100th dollars (\$45,040.68) is full payment for all labor, skill or material provided by the undersigned at said premises for invoices #HU00006308, HU00006324, HU00006759, HU00006770, HU00006780, HU00008134, CDE0001159, DE00008148, HU00006864, HU00006882, HU00006956, CHU0001372, HU00006962.

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.

The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property.

Vendor: FORTERRA PIPE & PRECAST

By: *[Signature]*

Title: *Genl mgr.*

Subscribed and sworn to before me this 23 day of October, 2020

Notary Public: *[Signature]*

My Commission expires

4/3/2024



Please sign and return to:
McDowell and Sons Contractors, Inc.
P.O. Box 664
Iowa Falls, IA 50126

McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as:

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.5

The undersigned acknowledges further that said amount: One thousand one hundred thirty dollars and 00/100th dollars (\$1,130.00) is full payment for all labor, skill or material provided by the undersigned at said premises for invoice #1820.

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.

The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property.

Vendor: WILLIAMS EXCAVATION & DIRECTIONAL BORING

By: *Paul R. Wheel*

Title: *owner*

Subscribed and sworn to before me this 23rd day of October, 2020

Notary Public: *Stefanie Abkes*

My Commission expires:



Please sign and return to:
McDowell and Sons Contractors, Inc.
P.O. Box 664
Iowa Falls, IA 50126

McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as:

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.5

The undersigned acknowledges further that said amount: Nineteen thousand five hundred forty-four dollars and 83/100th dollars (\$19,544.83) is full payment for all labor, skill or material provided by the undersigned at said premises for invoices #96597, 96904, 97482, 97862, 100890, 103538.

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.

The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property.

Vendor: BROWN SUPPLY CO

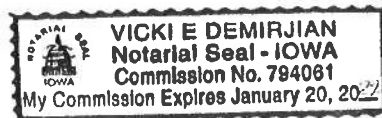
By: 

Title: 

Subscribed and sworn to before me this 6th day of NOVEMBER, 2020

Notary Public: 

My Commission expires: Jan 20, 2022



Please sign and return to:
McDowell and Sons Contractors, Inc.
P.O. Box 664
Iowa Falls, IA 50126

McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126

Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as:

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.5

The undersigned acknowledges further that said amount: Two thousand one hundred eighty-four and 33/100th dollars (\$2,184.33) is full payment for all labor, skill or material provided by the undersigned at said premises for invoices #184106, 184314, 186377, 186378, 187961

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.

The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property.

Vendor: CONCRETE INC

By:

Title:

[Signature]
Office Manager

Subscribed and sworn to before me this 13th day of Oct., 2020

Notary Public:

My Commission expires:

[Signature]
10/17/23

Please sign and return to:

McDowell and Sons Contractors, Inc.
P.O. Box 664
Iowa Falls, IA 50126

10/17/23

McDowell & Sons Contractors Inc.

10214 Hwy 65 ~ PO Box 664 ~ Iowa Falls, IA 50126
Phone: 641-648-5071 ~ Fax: 641-648-3639

WAIVER AND RELEASE OF LIEN

The undersigned acknowledges full payment from McDowell and Sons Contractors, Inc.

Whereas, the undersigned has furnished material and perform labor at the property known as:

Job Name: Repairs to Main Tile and Lateral 3 Tile, DD #25 and Repairs to
Main Tile DD #1
Hardin County, Iowa Projects: 6501 and 6749.5

The undersigned acknowledges further that said amount: Sixty thousand two hundred and twenty-two and 00/100th dollars (\$60,220.00) is full payment for all labor, skill or material provided by the undersigned at said premises for invoice #2480

Except to the extent of any additional amount set for in the preceding space, the undersigned will waive and release any and all lien, or claim or right to lien, on said above described property.

The undersigned further acknowledges that, except to the extent set forth above, it has paid all of its subcontractors and has paid all of its providers of labor, skill or material furnished at said above described property.

Vendor: Boomerang

By:

Donley Pambon

Title:

Controller

Subscribed and sworn to before me this 16th day of December, 2020

Notary Public: *Cindy Behrends*

My Commission expires: 3/16/23



Please sign and return to:
McDowell and Sons Contractors, Inc.
P.O. Box 664
Iowa Falls, IA 50126



Project: Upper Main Tile Diversion DD 56
Date: March 10, 2021
Engineer: Lee Gallentine

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

Brian Nettleton Excavating Inc.
269 370th Street
Joice, IA 50446

Holland Contracting Corp.
1400 South 4th Street
Forest City, IA 50436

Weidemann Inc.
105 South Tracy
Dows, IA 50071

Engineers Est. \$700,000

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Price	Unit Price	Bid Price	Unit Price	Bid Price	Unit Price	Bid Price
DD 56 BASE BID											
1	48" Ø RCP Tile	4,634	LF	\$ 175.00	\$ 810,950.00	\$ 190.00	\$ 880,460.00	\$ 209.00	\$ 968,506.00	\$ 250.00	\$ 1,158,500.00
2	48" Ø CMP Tile Outlet	40	LF	\$ 154.00	\$ 6,160.00	\$ 162.00	\$ 6,480.00	\$ 220.00	\$ 8,800.00	\$ 273.35	\$ 10,934.00
3	72" Junction Structure	2	EA	\$ 7,150.00	\$ 14,300.00	\$ 5,900.00	\$ 11,800.00	\$ 8,000.00	\$ 16,000.00	\$ 10,000.00	\$ 20,000.00
4	Concrete Collar	3	EA	\$ 330.00	\$ 990.00	\$ 1,000.00	\$ 3,000.00	\$ 900.00	\$ 2,700.00	\$ 1,400.00	\$ 4,200.00
5	Private Tile Connection	10	EA	\$ 500.00	\$ 5,000.00	\$ 1,100.00	\$ 11,000.00	\$ 600.00	\$ 6,000.00	\$ 2,280.00	\$ 22,800.00
6	12" Ø Hickenbottom Intake	1	EA	\$ 1,300.00	\$ 1,300.00	\$ 1,640.00	\$ 1,640.00	\$ 1,900.00	\$ 1,900.00	\$ 2,100.00	\$ 2,100.00
7	Rip-Rap	50	TN	\$ 39.50	\$ 1,975.00	\$ 64.00	\$ 3,200.00	\$ 65.00	\$ 3,250.00	\$ 52.95	\$ 2,647.50
8	Tile Removal	30	LF	\$ 10.00	\$ 300.00	\$ 20.00	\$ 600.00	\$ 12.00	\$ 360.00	\$ 20.00	\$ 600.00
9	Fences	1	LS	\$ 1,200.00	\$ 1,200.00	\$ 1,500.00	\$ 1,500.00	\$ 8,500.00	\$ 8,500.00	\$ 5,000.00	\$ 5,000.00
10	Road Ditch Grading	2	STA	\$ 650.00	\$ 1,300.00	\$ 500.00	\$ 1,000.00	\$ 350.00	\$ 700.00	\$ 1,000.00	\$ 2,000.00
11	Outlet Shaping	1	LS	\$ 650.00	\$ 650.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
12	Dewatering	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 15,000.00	\$ 15,000.00	\$ 20,000.00	\$ 20,000.00	\$ 25,000.00	\$ 25,000.00
13	Exploratory Excavation	2	HR	\$ 525.00	\$ 1,050.00	\$ 300.00	\$ 600.00	\$ 450.00	\$ 900.00	\$ 500.00	\$ 1,000.00
14	Bonding	1	LS	\$ 8,000.00	\$ 8,000.00	\$ 15,000.00	\$ 15,000.00	\$ 38,000.00	\$ 38,000.00	\$ 18,000.00	\$ 18,000.00
15	Seeding	1	LS	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00	\$ 27,000.00	\$ 27,000.00	\$ 8,000.00	\$ 8,000.00
16	Seeding Warranty	1	LS	\$ 1,000.00	\$ 1,000.00	\$ 100.00	\$ 100.00	\$ 13,500.00	\$ 13,500.00	\$ 200.00	\$ 200.00
DD 56 BASE BID TOTAL (BID ITEMS 1-16)				\$ 881,175.00	\$ 959,380.00	\$ 1,117,116.00	\$ 1,281,981.50				

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Price	Unit Price	Bid Price	Unit Price	Bid Price	Unit Price	Bid Price
DD 56 ALTERNATE BID											
1ALT	48" Ø Polypropylene Tile	4,634	LF	\$ 180.00	\$ 834,120.00		\$ -		\$ -		\$ -
2ALT	48" Ø CMP Tile Outlet	40	LF	\$ 154.00	\$ 6,160.00		\$ -		\$ -		\$ -
3ALT	72" Junction Structure	2	EA	\$ 7,150.00	\$ 14,300.00		\$ -		\$ -		\$ -
4ALT	Concrete Collar	3	EA	\$ 330.00	\$ 990.00		\$ -		\$ -		\$ -
5ALT	Private Tile Connection	10	EA	\$ 500.00	\$ 5,000.00		\$ -		\$ -		\$ -
6ALT	12" Ø Hickenbottom Intake	1	EA	\$ 1,300.00	\$ 1,300.00		\$ -		\$ -		\$ -
7ALT	Rip-Rap	50	TN	\$ 39.50	\$ 1,975.00		\$ -		\$ -		\$ -
8ALT	Tile Removal	30	LF	\$ 10.00	\$ 300.00		\$ -		\$ -		\$ -
9ALT	Fences	1	LS	\$ 1,200.00	\$ 1,200.00		\$ -		\$ -		\$ -
10ALT	Road Ditch Grading	2	STA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -
11ALT	Outlet Shaping	1	LS	\$ 650.00	\$ 650.00		\$ -		\$ -		\$ -
12ALT	Dewatering	1	LS	\$ 35,000.00	\$ 35,000.00		\$ -		\$ -		\$ -
13ALT	Exploratory Excavation	2	HR	\$ 525.00	\$ 1,050.00		\$ -		\$ -		\$ -
14ALT	Bonding	1	LS	\$ 8,000.00	\$ 8,000.00		\$ -		\$ -		\$ -
15ALT	Seeding	1	LS	\$ 7,000.00	\$ 7,000.00		\$ -		\$ -		\$ -
16ALT	Seeding Warranty	1	LS	\$ 1,000.00	\$ 1,000.00		\$ -		\$ -		\$ -
DD 56 BASE BID TOTAL (BID ITEMS 1ALT-16ALT)				\$ 919,345.00	\$ -	\$ -	\$ -				

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Price	Unit Price	Bid Price	Unit Price	Bid Price	Unit Price	Bid Price
DD 56 ADD ALTERNATES BID											
1ADD	Mandrel Testing of Tile	4,674	LF	\$ 5.00	\$ 23,370.00	\$ 1.00	\$ 4,674.00	\$ 2.00	\$ 9,348.00	\$ 1.00	\$ 4,674.00
2ADD	CCTV Inspection of Tile	4,674	LF	\$ 5.00	\$ 23,370.00	\$ 3.00	\$ 14,022.00	\$ 4.00	\$ 18,696.00	\$ 3.00	\$ 14,022.00
3ADD	Trench Compaction	46.74	STA	\$ 500.00	\$ 23,370.00	\$ 460.00	\$ 21,500.40	\$ 180.00	\$ 8,413.20	\$ 4,000.00	\$ 186,960.00
4ADD	Mandrel and CCTV Access Point	4	EA	\$ 6,000.00	\$ 24,000.00	\$ 3,750.00	\$ 15,000.00	\$ 12,000.00	\$ 48,000.00	\$ 5,650.00	\$ 22,600.00
5ADD	Additional 2' of Installation Depth	4,674	LF	\$ 1.00	\$ 4,674.00	\$ 15.00	\$ 70,110.00	\$ 35.00	\$ 163,590.00	\$ 15.00	\$ 70,110.00
BID ADD ALTERNATE #1 TOTAL (BID ITEMS 1ADD-5ADD)				\$ 98,784.00	\$ 125,306.40	\$ 248,047.20	\$ 298,366.00				

Drainage District:

#17

Investigation Summary:

- Landowner in the NW¼ NE¼ Section 4, Township 88 North, Range 22 West reported the 12-inch Main tile is offset from the outlet and is not draining. Also reported the presence of water backing up onto the parcel and lack of drainage. Excavations were completed by a contractor hired by the landowner in the vicinity.
- Visual observation found the (rusty and bent) 18-inch CMP Main tile outlet with water flowing freely out into the unnamed tributary to the South Fork of the Iowa River. Visually following the historical record path of the Main tile in the upstream direction found no excavations or signs of excess surface water in the immediate vicinity. Further visual exploration found the reported exploratory excavations approximately 500-feet east the assumed Main tile path at their closest point.
- Office research found that the Main tile in this area was reportedly installed as a 16-inch tile, much larger than the reported 12-inch tile. In addition, the historical map on record does not show any laterals.

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

None recorded as only field observation was conducted.

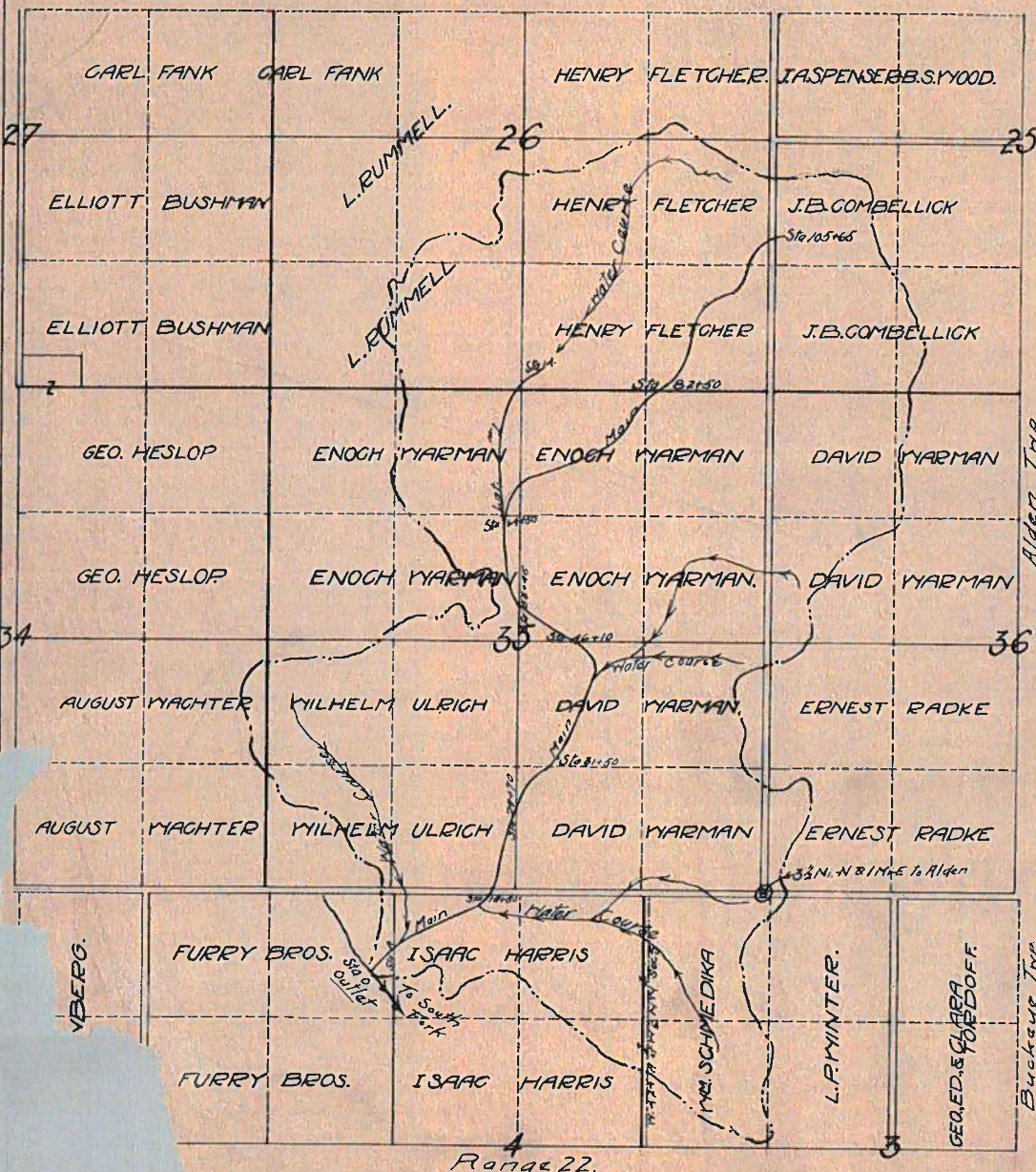
Additional Actions Recommended:

- Due to the reported size and observed locations of excavation, it is unlikely that the reported tile is a District facility. However, definite confirmation of this could be achieved by exposing the tile for direct observation of the size and location, as well as a more thorough analysis of the district history.
- Should the landowners and District Trustees wish, the suspected private tile could be acquired by the District as a facility for future use and maintenance.
- Due to some erosion taking place of the soil around the Main tile outlet, the District Trustees may wish to install additional revetment stone around the perimeter of the CMP outlet tile to prevent further erosion. In addition, with the rusted and slightly bent nature of the CMP material, it may be worth replacing the first 40-feet of material from the outlet.
- The Main tile outlet currently lacks a rodent guard, which could be installed on the existing outlet, or a new CMP outlet accordingly.



AIDEN

PLAT
of the
YARMAN
DRAINAGE DISTRICT.
No 17
HARDIN COUNTY
IOWA
Containing 1008 Acres.
Scale 1"=880'
S.B. Gardner, Engr. Eldora Ia.
1911.



Length and Size of Tile.
Main.
Sta. 00 To Sta. 65--6500'--16" Tile.
" 65 " " 75--1000'--14" "
" 75 " " 85--1000'--12" "
" 85 " " 95--1000'--10" "
" 95 " " 100--500'--8" "
" 100 " " 107--700'--7" "
Lateral No. 1.
" 00 " " 14--1400'--10" "
Bulkhead 4 Cu Yds. Concrete.

Sta.	Dist. from 00	Dist. from 00
00	85.50	10
3	95.60	11.8
7	100.20	50
18	106.20	60
31	111.20	68
41	116.60	1.8
65	120.20	23
107	130.00	End
00	120.60	Lateral 1
14	120.80	10
		End

Description of E.M.s.	Elev.



Drainage Work Order Request For Repair

Hardin County

Date: 3/3/2021

Work Order #: WO00000308

Drainage District: DDs\DD 17 (51030)

Sec-Twp-Rge: 04-88-22 **Qtr Sec:** W 1/4 Corner of NW

Location/GIS: 88-22-04-200-001

Requested By: John Wibholm

Contact Phone: (515) 460-0668

Contact Email: jwibholm@gmail.com

Landowner (if different): John Wibholm

Description: John Wibholm reports 12" main tile is offset of outlet & not draining, standing water backed up in his parcel #882204200001 & outlet is in neighbor's parcel to the West. John had Hands On investigate, tile is open, says it needs dug down for a length of 300' to 400' & relaid.

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:** _____



892235300006

Co Hwy D25

D.D. N

MAIN

882204200001

W0 306

Ortel

882204100003

882204100002

882204100001

804100007

49457

Inspector's Project Diary

Project: <u>ACCESS DD#17 MAIN WITH WATER PONDING</u>			
CGA PN: <u>6840.2 DD#17</u>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/> <u>LEE CALENTINE</u>
Contractor: _____	<u>MONDAY</u>	Date: <u>3/22/2021</u>	
Superintendent: _____	Weather Conditions: <u>CLOUDY LIGHTWIND</u>	Precip.: <u>0.0"</u>	Temp. Hi: <u>MID 50</u> ° Temp. Low: <u>LOW 40</u> °
INSPECTOR: Time Arrived: <u>9:30 A.M.</u> Time Left: <u>11:15 A.M.</u>	Contractor: Time Arrived: _____ Time Left: _____		
1. General Remarks and Work Accomplished:			
<p><u>9:30 A.M. OBSERVER ARRIVED ON SITE & WALKED OUT TO WHERE MAIN WOULD CROSS FENCELINE SOUTH EAST OF OPEN DITCH. OBSERVER COULD NOT FIND ANY AREAS OF FRESH SOIL EXCAVATED BUT FOUND WATERWAY WHERE WATER HAD FLOWED AT ONE TIME. (LEE HAD TRIED TO CONTACT HANDS ON EXCAVATING BUT HAD NOT RETURNED HIS CALL YET ABOUT IT). OBSERVER WALKED ALONG GRASS WATERWAY AND FOUND 18" CMP OUTLET (FLITTLE RUSTY) BUT FLOWING. NO AREAS OF TILE EXPOSED OR FRESH SOIL. OBSERVER DID NOTICE SURFACE DRAIN INLET TO SE THAT COULD USE SOME GRADING IN FRONT OF INLET.</u></p>			
<p><u>10:09 A.M. OBSERVER CALLED LEE THAT NO TILE VISIBLE OR FRESH DUG IN AREA ON WORK ORDER REQUEST MAP ONLY FOUND WATERWAY WHERE WATER RAN AT ONE TIME THROUGH GRASSY AREA TO SURFACE INLET. LEE SAID TO CONTACT JOHN TO SEE IF HE HAS INFORMATION THAT WOULD HELP</u></p>			
<p><u>10:12 A.M. OBSERVER CALLED JOHN AND AFTER TALKING TO JOHN THAT AREA HE IS CONCERNED WITH IS FURTHER EAST & FURTHER EAST OF FENCELINE NORTH EAST OF 14425 COMWY DRS BUT SOUTH OF COMWY DRS OBSERVER ADVISED JOHN THAT IT IS PROBABLY A PRIVATE TILE. SINCE MAPS ALL SHOW WEST OF FENCELINE NORTH AND IS A LOWER VALLEY AT THAT LOCATION & OTHER VALLEY FURTHER EAST WHERE SOIL HAS BEEN DUG ENDS UP GOING THROUGH GROUND ALOT HIGHER. OBSERVER TOLD JOHN ABOUT BEACON AND SENT JOHN AN IMAGE OF INFORMATION I HAD. ALSO TOLD JOHN THAT</u></p>			
<p><u>OLD MAPS SHOW TILE SHOULD BE 16" ^{TILE} WHICH 12" TILE IS ALOT SMALLER. JOHN SAID THAT HE HAD A \$5000 BILL ALREADY AND WAS NOT HAPPY HOW SHALLOW IT WAS AND THOUGHT MAY BE IF IT WAS COUNTY TO GET IT DEEPER. OBSERVER SAID THAT I WILL RUN IT BY LEE BUT WAY IT IS LOOKING RIGHT NOW IT IS A PRIVATE TILE.</u></p>			
<p><u>11:00 A.M. OBSERVER TOOK PICTURES OF LOW VALLEYS & AREAS WHERE SOIL WAS EXPOSED OR REPAIRED</u></p>			
<p><u>11:15 A.M. OBSERVER LEFT SITE.</u></p>			

By: Jean Penning
Inspector
Distribution: Project Mgr. (Original), Inspector (Copy)
Form 9753

JOB # 6840.2 / HARDIN D0#17

Beacon™ Hardin County, IA

Layers Map Search Comp Search Results Comp Results Report Pictometry Imagery

Search search... Log in Search

Parcel ID - 892235300006
 Alt Id - 7260000100
 Address - 14425 CO HWY D25
 Owner - Renaud, Stephen D
 Trust (Deed)
 Acres - 9.02
 View: Report Pictometry Imagery



- Layer List Legend
- Quick Links:
- Property Search
 - View Map
 - Drainage District Search
- Layers:
- Address
 - Corporate Limits
 - Political Townships
 - Geographic Townships
 - Sections
 - Subdivision Annotation
 - Subdivisions
 - Lot Annotation
 - Lot Lines
 - Road Dimensions
 - Roads
 - Road ROW
 - Railroad Annotation
 - Railroads
 - Railroad ROW
 - Water
 - Parcel Dimensions
 - Parcels
 - Drainage Tiles
 - Drainage Districts
 - Cartography
 - Landuse
 - Soils
 - Enterprise Zones
 - Conservation Property
 - Structures
 - Garden Winds Turbines
 - Airport Protected Airspace
 - Surfaces
 - Two Mile Boundary
 - School Districts
 - Voting Districts
 - LOMR
 - Flood Hazard Boundaries

Powered by esri 4945083.90, 3633800021

Alternate ID 7260000100
 Class AD
 Acreage 9.02

Owner Address Renaud, Stephen D Trust
 11100 Thurston Ln
 Iowa Falls, IA 50126
 PICTURE # 5898

Parcel ID 892235300006
 Sec/Twp/Rng 35-89-22
 Property Address 14425 CO HWY D25
 HARDIN

District Brief Tax Description

09000
 S605 E702 SE SW
 SEC35 T89N R22W
 [Note: Not to be used on legal documents]

THAT NEEDS GRADED W/FRONT OF

PICTURE # 5895

DIRT EXPOSED LIKE ITS BEEN DUG OR REPAIRED PICTURE # 5896

DIRT EXPOSED LIKE ITS BEEN DUG OR REPAIRED PICTURE # 5897

PICTURE # 5898

PICTURE # 5894
18" CUP OUT LET

FENCE LINE NORTH

PICT # 5900

BEWIL TO 30"

LOW VALLEY

LOW VALLEY

CONVERT

DID NOT FIND ANY INTAKE ON EITHER SIDE

WATERWAY THROUGH FENCELINE

CO HWY D25

892235300006

2

PICTURE # 5843 LOOKING UP UPSTREAM INSIDE 18" C.M.P. OUTLET BY OPEN DITCH



03/22/2021
09:02

PICTURE # 5894 LOOKING NE @ 18" CAMP OUTLET FOR DD #17 MANN @ OPEN DITCH



03/22/2021
09:02

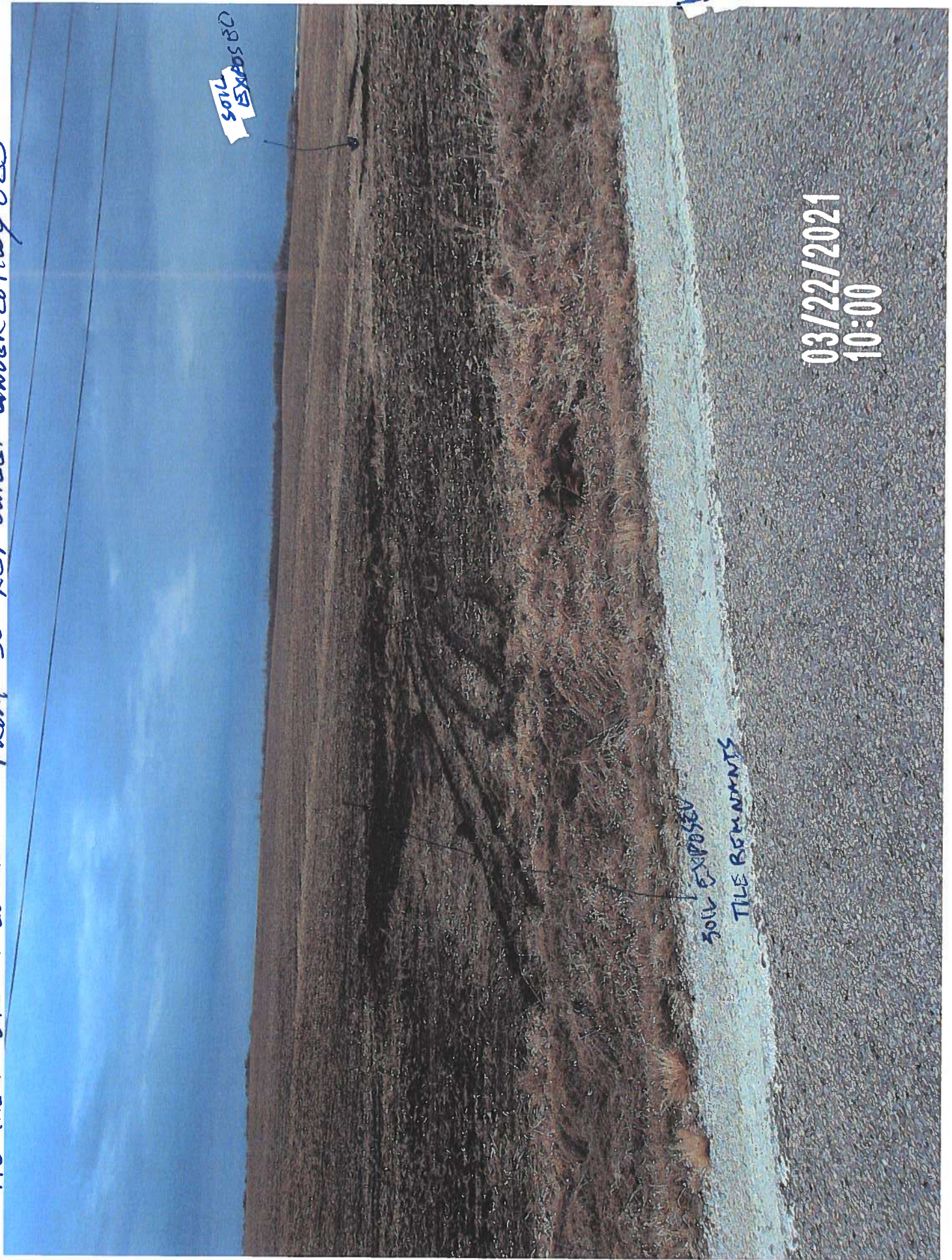
PICTURE # 5895 IS LOOKING SW FROM 30" RCP OUTLET UNDER CO HWY D25

SOIL EXPOSURE

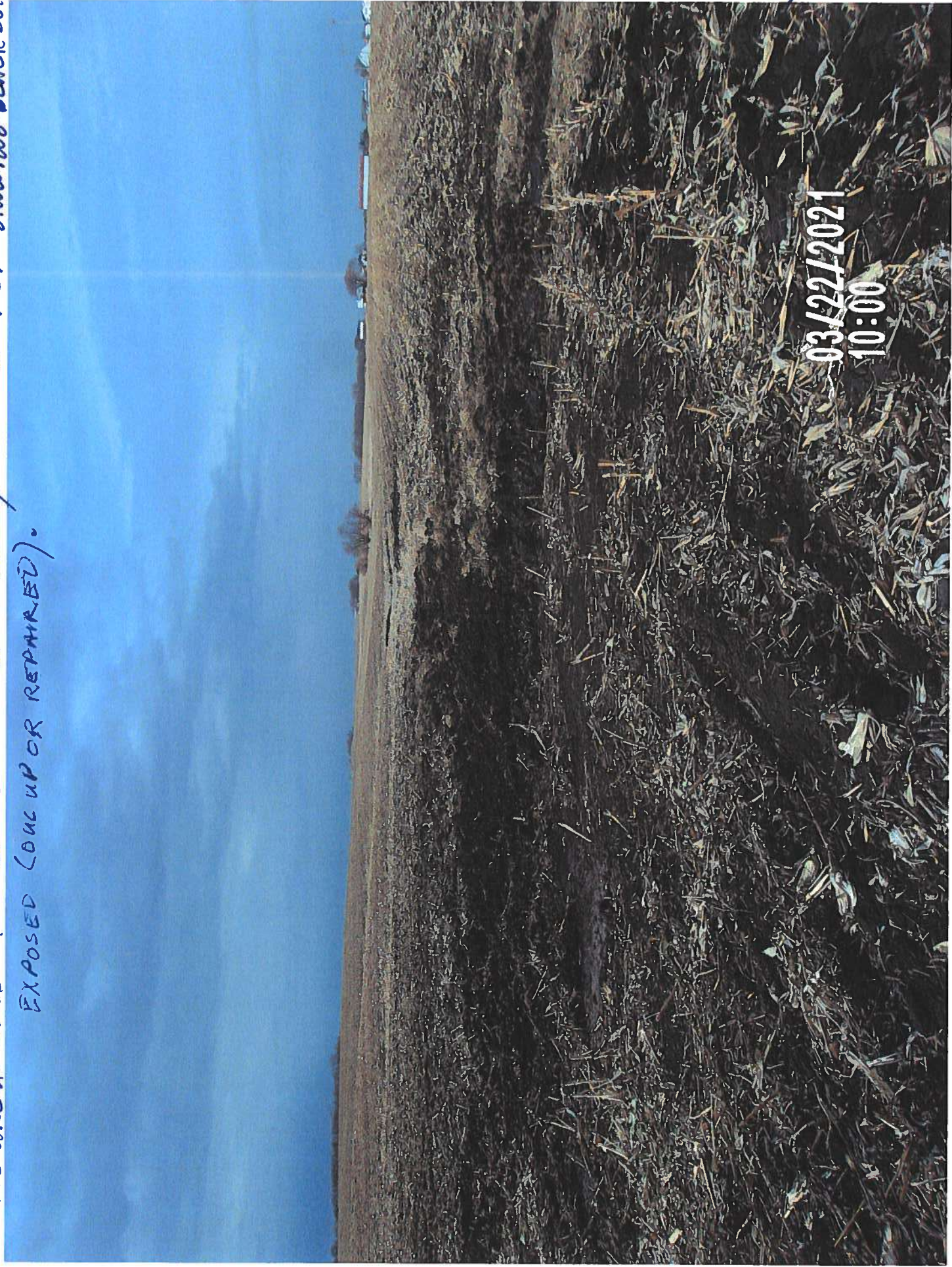


03/22/2021
10:00

SOIL EXPOSURE
TILE REMNANTS



PICTURE # 5896 IS LOW IN 6 SW FROM LOW VALLEY FROM 30" RCP SHOWING BLACK SOIL EXPOSED (OUC UP OR REPAIRED).



03/22/2021
10:00



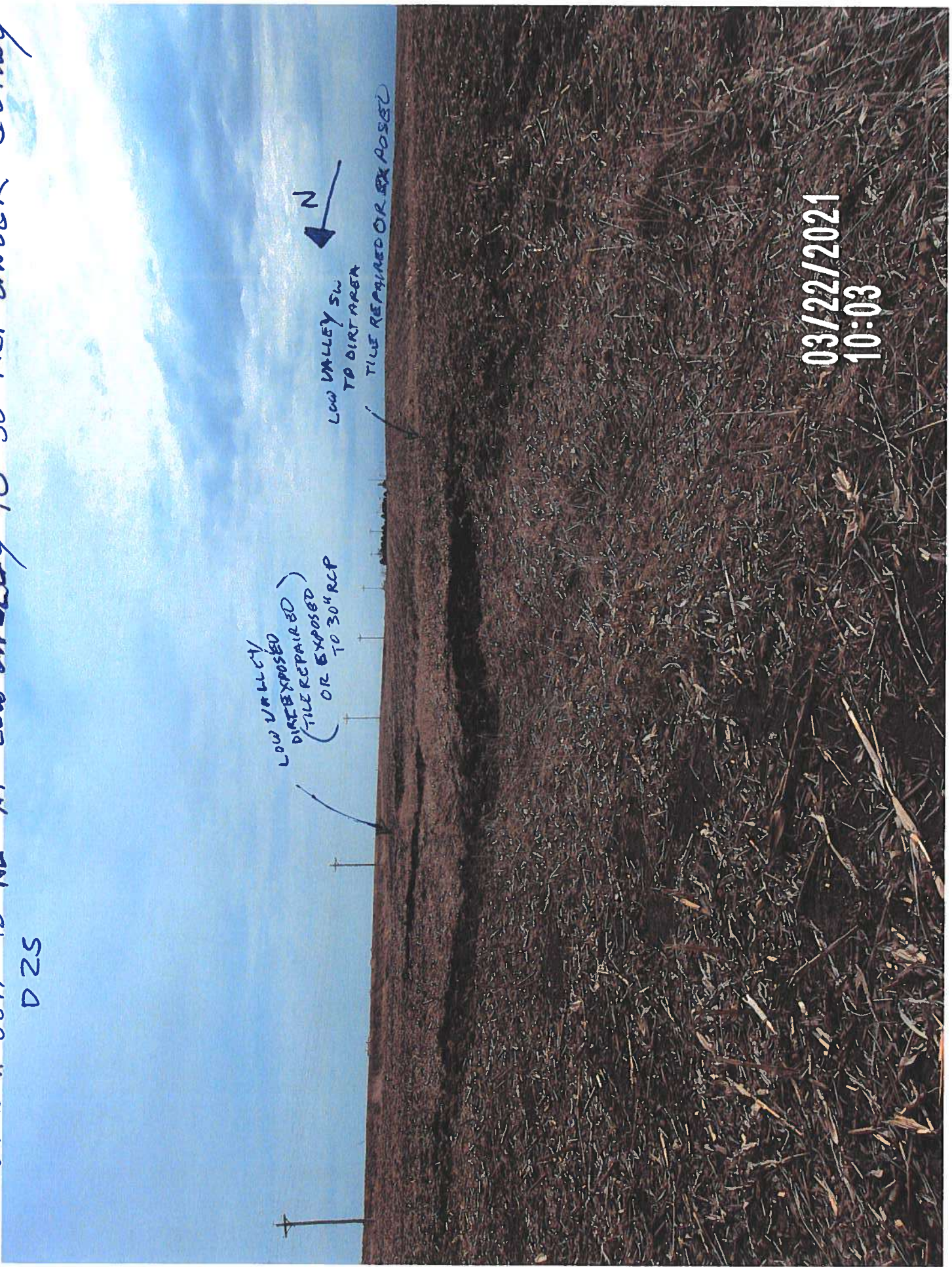
LOOKING
PICTURE # 5897 IS NE AT LOW VALLEY TO 30' RCP UNDER COMWAY
DZS

LOW VALLEY
DIRTY EXPOSED
(TILE REPAIRED)
OR EXPOSED
TO 30" RCP

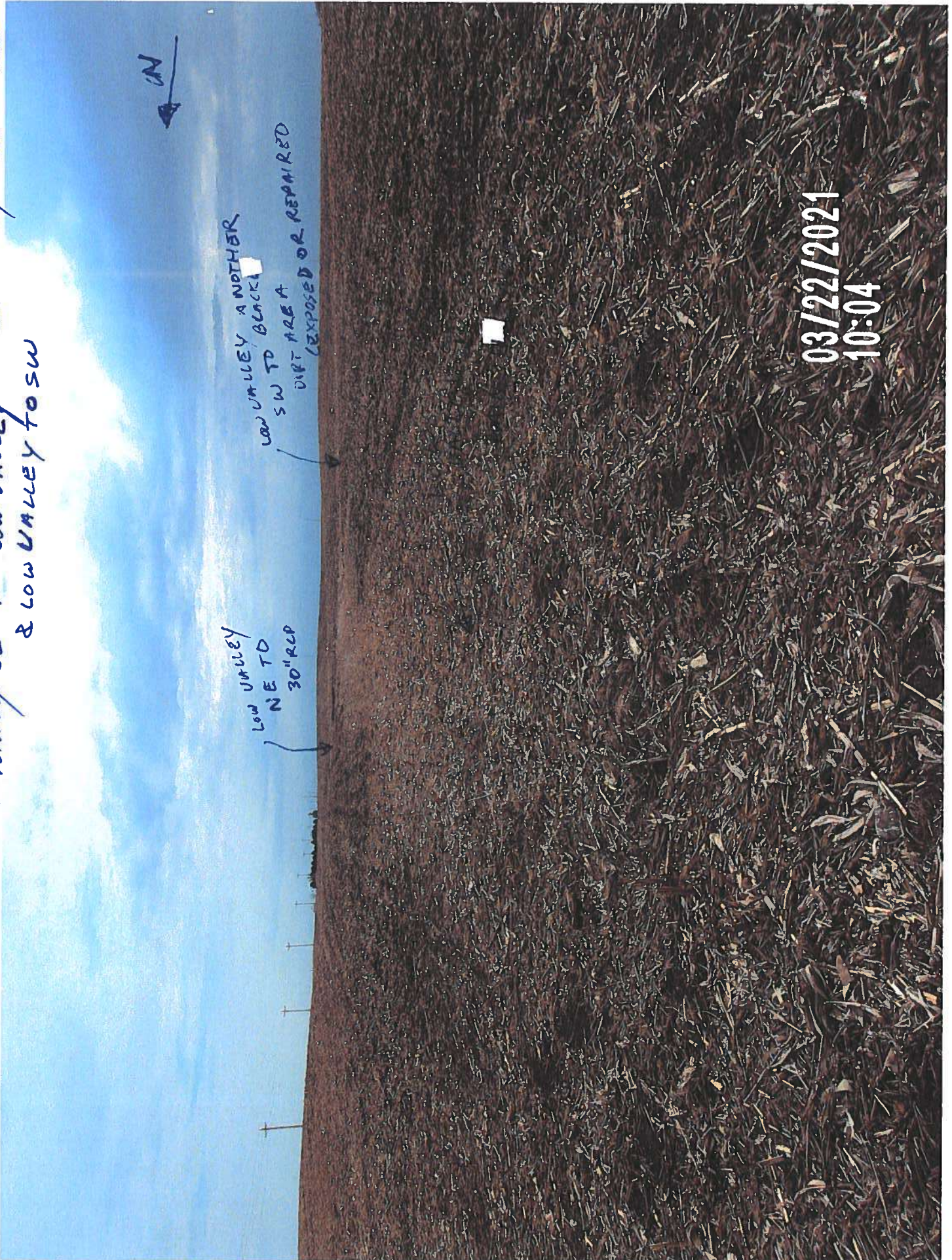


LOW VALLEY SW
TO DIRT AREA
TILE REPAIRED OR EXPOSED

03/22/2021
10:03



PICTURE # 5898 LOOKING SLIGHTLY SE AT LOW VALLEY TO LOW VALLEY TO NE 30" RCP
& LOW VALLEY TO SW



LOW VALLEY
NE TO
30" RCP

LOW VALLEY ANOTHER
SW TO BLACK
DIRT AREA
(EXPOSED OR REPAIRED)

IN

03/22/2021
10:04

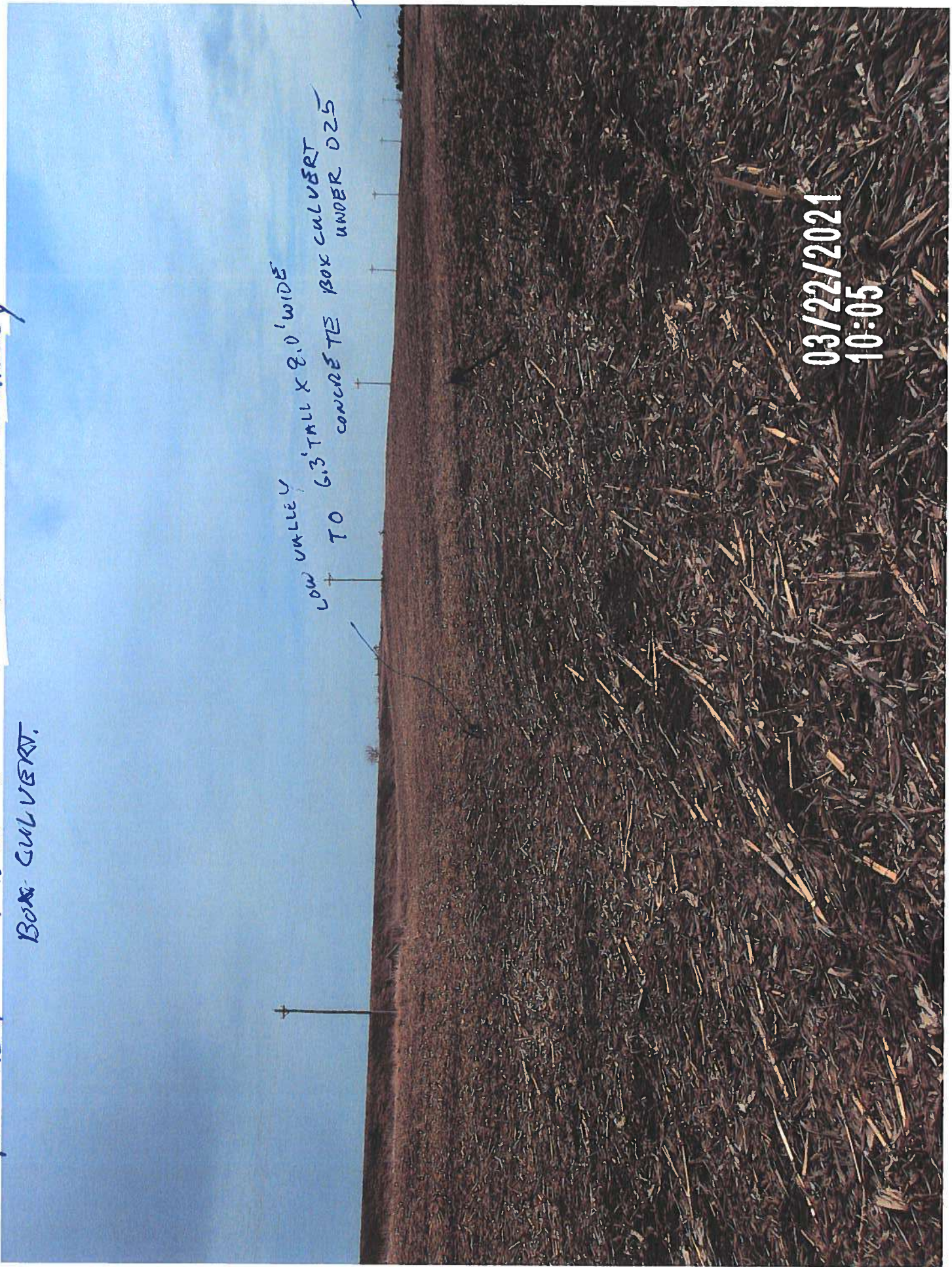
PICTURE # 5899 IS LOOKING NE AT DRAINAGE LOW VALLEY FROM CONCRETE BOX CULVERT.

BOX CULVERT.

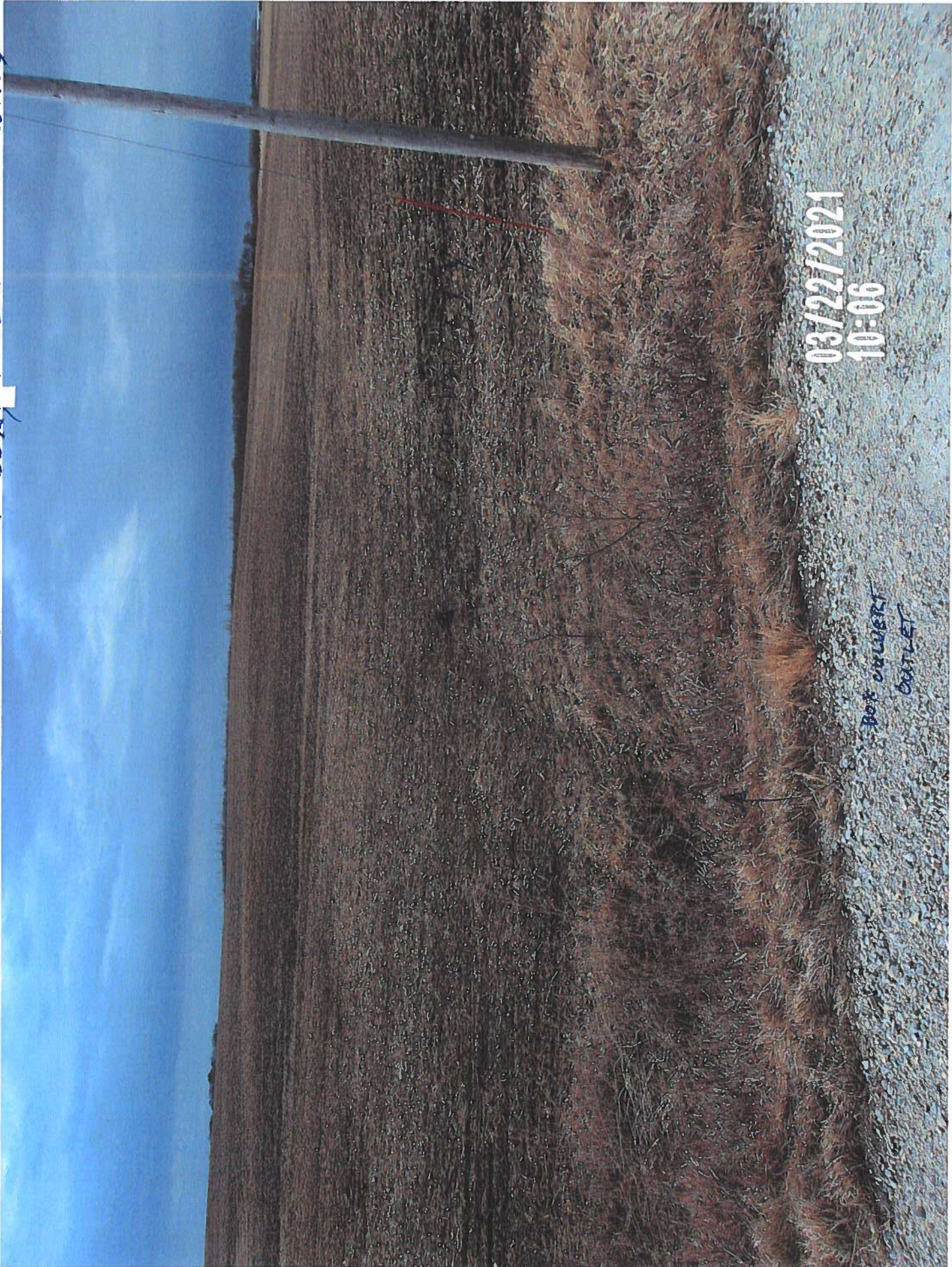
LOW VALLEY
TO 6.3' TALL X 8.0' WIDE
CONCRETE BOX CULVERT
UNDER D25

2

03/22/2021
10:05



PICTURE # 5900 IS LOOKING SW FROM CBOX, CULVERT UNDER CO HWY 025



BOX CULVERT
OUTLET

03/22/2021
10:06



6840 DD17 5-19-16RB

1,5000.000,5000.000,100.000,CPT 3/4

2,3636593.407,4945799.405,1136.950, TOP CLAY MAIN

3,3636592.582,4945799.910,1137.453, TOP CLAY 8" PRIVATE

4,3634519.770,4948118.450,1155.580,GPS MON 8017

8017,3634519.770,4948118.450,1155.580,GPS MON 8017

Drainage District:
#128

Investigation Summary:

- On July 31, 2020 CCTV inspection was taken of the dual wall HDPE main tile previously installed to determine its condition.
- After reviewing the footage, the following observations were made:
 1. 854 feet of CCTV inspection was conducted.
 2. 818 feet of flexible dual wall HDPE was inspected.
 3. All the tile observed was found to be deflected less than 10%.
 4. The minimum amount of deflection found was approximately 2-3% (see attached photo for example).
 5. The maximum amount of deflection found was approximately 8-9% (see attached photo for example).
 6. The average amount of deflection found was approximately 4%.
 7. While not large in extent or length, many places in the tile were found to have intermittent ponding in the bottom.

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

- None as all work performed by the contractor is part of the contract.

Additional Actions Recommended:

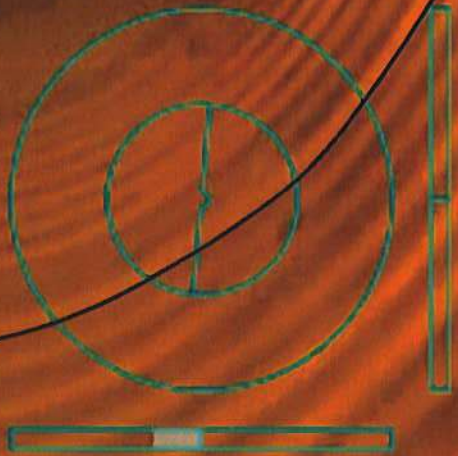
Per Change Order #3, the contractor is only obligated to replace any flexible dual wall in excess of 12% deflection as the manufacturer states that anything with less than 12% deflection "will perform as intended". Based on these, no action is recommended.



57.2ft -1.7°

10:05:45 07-31-2020

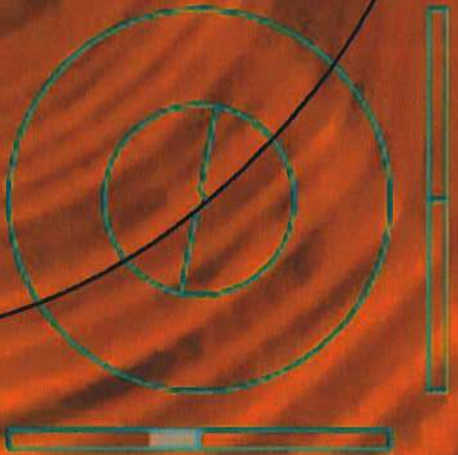
2-3%



75.1ft -2.2°

10:07:08 07-31-2020

8-9%



Inspection Report

Produced on behalf of – HANDSACKER

Site location – ,

Survey reference – DEAN BRIGHT

Date – 310720

WILLIAMS UNDERGROUND SVCS.

102 INDUSTRIAL DRIVE, ACKLEY, IOWA

50601,

641-485-3925

Contents

1	Drain / Sewer Survey	Error! Bookmark not defined.
1.1	Site information	Error! Bookmark not defined.
1.2	Drain / Sewer Details.....	Error! Bookmark not defined.
1.3	Survey Details.....	Error! Bookmark not defined.
1.4	Drain / Sewer Diagram	Error! Bookmark not defined.
1.5	Observations	Error! Bookmark not defined.
1.6	Photographs.....	Error! Bookmark not defined.
2	Drain / Sewer Survey	Error! Bookmark not defined.
2.1	Site information	Error! Bookmark not defined.
2.2	Drain / Sewer Details.....	Error! Bookmark not defined.
2.3	Survey Details.....	Error! Bookmark not defined.
2.4	Drain / Sewer Diagram	Error! Bookmark not defined.
2.5	Observations	Error! Bookmark not defined.
2.6	Photographs.....	Error! Bookmark not defined.

1 Drain / Sewer Survey

1.1 Survey Header

1.1.1	Surveyed by (Operator)	PAUL
1.1.2	Contract no.	
1.1.3	Job no.	DEAN BRIGHT
1.1.4	Catchment (Drainage area)	
1.1.5	Division	
1.1.6	District	
1.1.7	Pipeline length ref	1000
1.1.8	Date	310720
1.1.9	Time	09:47
1.1.10	Location	
1.1.11	Start manhole no.	
1.1.12	Start depth	m
1.1.13	Start cover level	
1.1.14	Start invert level	
1.1.15	Finish manhole no.	
1.1.16	Finish depth	m
1.1.17	Finish cover level	
1.1.18	Finish invert level	
1.1.19	Use of Drain	W
1.1.20	Direction	D
1.1.21	Size 1 (diameter/height)	8"mm
1.1.22	Size 2 (width)	mm
1.1.23	Shape	C
1.1.24	Material	XXX
1.1.25	Lining	
1.1.26	Pipe length	m
1.1.27	Total length	
1.1.28	Year laid	2019
1.1.29	Video cassette number	
1.1.30	Comments: General	FLEX CORE DUAL WALL
1.1.31	Purpose	X
1.1.32	Sewer category	
1.1.33	Pre-cleaning	
1.1.34	Weather	
1.1.35	Location code	
1.1.36	Further location details	

1.2 Observations

Video Ref	Dist (ft)	Cont Defect	Code	Photo Ref	Diameter/ Dimension	Clock		Intrusion		Remarks
						At	To	%	mm	

Drainage District:

#48

Investigation Summary:

- Per recommendation of previous investigation summary, performed preliminary survey of existing main open ditch flowline, inventory of main open ditch condition, and found the following issues:
 1. 6,000± feet of the main open ditch that has silt accumulation of ½ feet to 1½ feet (see attached map for locations).
 2. 15,460± feet of the main open ditch that has eroded below the original design grade (see attached map for locations).
 3. 8,800± feet of the main open ditch that has a bottom width narrower than the original design (see attached map for locations).
 4. Erosion around the outlet of the main tile at the upper end of the main open ditch.
 5. 10± locations of existing tile outlets that are in disrepair.
 6. 20± locations of existing surface drains that are in disrepair or a new psurface drain is needed.
 7. 15± locations of sluffing on the banks of the main open ditch.
 8. 5± patches of trees that could promote beaver activity or root growth that could plug tiles.
 9. 2± locations of rocks/former crossing remnants in the flowline.

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

None recorded as only visual observation and field survey was performed.

Additional Actions Recommended:

Given all of the above issues that could negatively impact drainage capacity, we would recommend a large scale project to remedy them. Since these issues are spread throughout the length of the main open ditch, the construction cost would be well over \$50,000. This amount is high enough that a hearing and an engineer's report would be required.





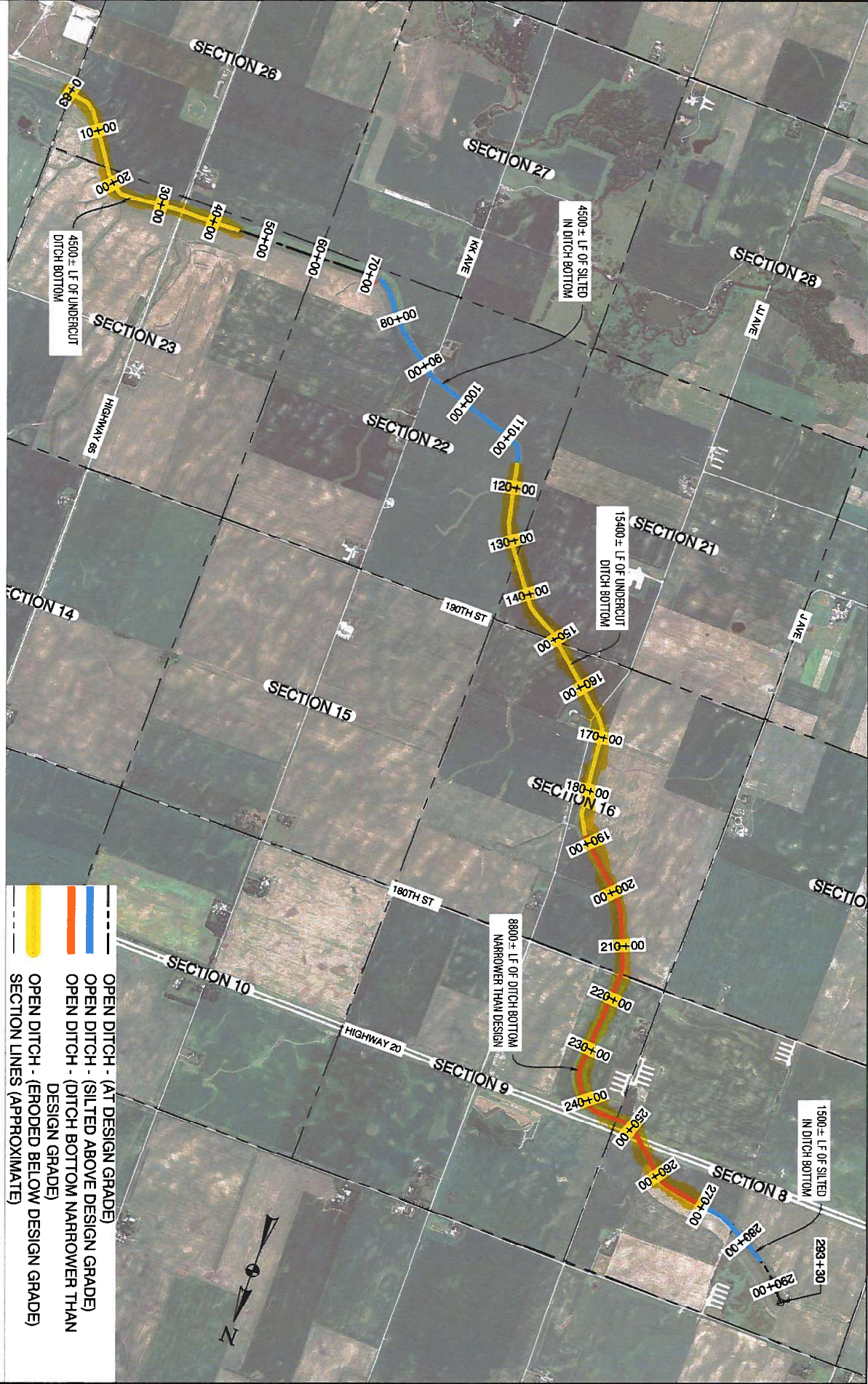
NO.	REVISION	BY	DATE



DESIGNED BY	DATE

DRAINAGE DISTRICT 48
HARDIN COUNTY, IOWA

INVESTIGATION MAP



- OPEN DITCH - (AT DESIGN GRADE)
- OPEN DITCH - (SILTED ABOVE DESIGN GRADE)
- OPEN DITCH - (DITCH BOTTOM NARROWER THAN DESIGN GRADE)
- OPEN DITCH - (ERODED BELOW DESIGN GRADE)
- - - - SECTION LINES (APPROXIMATE)

4500 ± LF OF UNDERCUT
DITCH BOTTOM

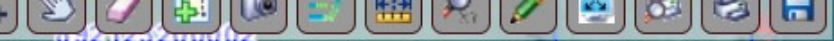
4500 ± LF OF SILTED
IN DITCH BOTTOM

15400 ± LF OF UNDERCUT
DITCH BOTTOM

8800 ± LF OF DITCH BOTTOM
NARROWER THAN DESIGN

1500 ± LF OF SILTED
IN DITCH BOTTOM

283 + 90
290 + 00



2021 Joint Drainage District Relevies (Franklin Control)

Fund #	District Name	Last Relevy	Ending Cash Balance	Outstanding Warrants	Interest	Subtotal	Retainer	Amount Needed	Original Cost	% Relevy	Total Relevy*	
51160	DD 2-2 F-Hardin(Franklin Control)	2002	\$ 320.19	\$ 6,164.70	\$ 272.65	\$ 6,117.16	\$ 2,000.00	\$ 8,117.16	\$ 28,745.49	28.24%	\$ 8,117.16	
							Franklin 86%	\$ 6,980.76	\$ 24,811.65	28.14%	\$ 6,980.76	
							Hardin 14%	\$ 1,136.40	\$ 3,933.84	28.89%	\$ 1,136.40	
51162	F-Hardin 4-53 (Franklin Control)	2017	\$ -	\$ 5,807.92	\$ 318.96	\$ 6,126.88	\$ 2,000.00	\$ 8,126.88	\$ 40,969.81	19.84%	\$ 8,126.88	
							Franklin 60%	\$ 4,876.13	\$ 24,540.31	19.87%	\$ 2,776.10	
							Hardin 40%	\$ 3,250.75	\$ 16,429.50	19.79%	\$ 1,850.72	
Franklin County Supervisors							Hardin County Supervisors					
Date Approved: 5-3-2021							Date Approved:					
	Mike Nolte	<i>Michael Nolte</i>						BJ Hoffman				
	Gary McVicker	<i>Gary McVicker</i>						Reneé McClellan				
	Chris Vanness	<i>Chris Vanness</i>						Lance Granzow				