

**AGENDA**  
**Regular Drainage Meeting**  
**Wednesday, June 15, 2022, 9:30 A.M.**  
This meeting will be held electronically and in-person.  
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:

[DD 14 HEARING MINUTES 03\\_30\\_22.PDF](#)  
[DD 14 HEARING MINUTES 06\\_08\\_22.PDF](#)  
[06\\_01\\_22 DRAINAGE MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[PAYABLES-DRAINAGE PUBLICATION 6-17-22.PDF](#)

5. Discuss W Possible Action - Union Pacific Project To Extend Parallel Line Crossing Drainage District Facilities
6. DD 121 WO 332 - Discuss W Possible Action - Investigation Summary

Documents:

[DD 121 DRAINAGE INVESTIGATION SUMMARY \(6-13-22\).PDF](#)

7. Discuss W Possible Action - IDDA Membership
8. Discuss W Possible Action - New Work Order Requests

Documents:

[DD H-S 4-112 WO 333 REQUEST FORM.PDF](#)  
[DD H-S 4-112 WO 333.PDF](#)

9. Other Business
10. Adjourn Meeting



**DD 14 Public Hearing On Engineer's Report****Wednesday March 30, 2022, 10:00 A.M.****This meeting was held electronically and in-person**

3/30/2022 - Minutes

## 1. Open Meeting

Hardin County Drainage Chairperson BJ Hoffman opened the meeting. Also present were Trustee Lance Granzow; Trustee Renee McClellan; Lee Gallentine of Clapsaddle Garber Associates; Michael Pearce, Network Specialist; Jack Runge; Al Urhammer; Ron Vierkandt; Jim Vierkandt; Luke Vierkandt; Adam Seward Honey Creek Land Improvement; and Michelle Kuechenberg, Drainage Clerk.

## 2. Approve Agenda

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

## 3. Introductions/Attendance

Introductions were made and attendance verified.

## 4. DD 14 - Discuss W Possible Action - Landowner Request For Televising District Tile

Hoffman stated we had a written request from Mr. Runge to request televising district tile. Hoffman stated this request was to make sure before we invest in a whole lot of money in either of the two options for repair or improvement that we know what the big picture is. Hoffman asked Jack if he had anything to add to that. Runge stated from his perspective neither one of the options would have an immediate return for him, rather long term. Runge stated Gallentine gave him a \$10,000 Christmas present several years ago when we had NRCS situation. Runge stated his issue is in section 24 and 27 where the tile flattens out. Runge stated when 26 was done he got a letter from NRCS stating he would have to quit farming .21 acres because he did not prove the wetland, the quick solution would be just going the mitigation ground, but you had to buy an acre which was going for \$10,000 dollars at the time. Runge stated Gallentine wrote a report and sent it to NRCS stating the improvement on 26 had no effect as far northeast as Runge was. Runge stated he just wanted to lay it on the table, there has been a lot of issues in the last two years and even the last 2 generations with tile in sections 24 and 27, before he can feel good about supporting the Engineer's report, he wants to know if he can get water. Runge stated he outlined what he would like televised. Runge stated he has complained for years he has water going out of an intake, down the corner, 3 ft out of the ground there is nothing coming out of the intake. Runge stated he really hoped when the rock pile was removed from the main that was going to improve his drainage, but it did not. Runge stated he would really like to know what that loop looks like. Hoffman asked Granzow if he had any questions or concerns. Granzow stated he would like to hear from the landowners. Granzow asked if anyone else had any comments or concerns. Gallentine stated they have done some televising, but it is not at the upper end, it is all down at the lower end where the report is concentrated on. Gallentine stated he does not know anything about the condition of the upper end where Runge is asking about. McClellan asked where we are talking. McClellan asked the details of Runge's request. Runge asked Kuechenberg if she could give a copy of the request to Gallentine. Kuechenberg stated she would. Kuechenberg handed a copy of the request to Gallentine. Runge stated he does know Ronnie televised D41.

Runge stated he would like to go from the corner of section 26 going into the ditch, kitty corner and across S27, down along the north side of D41 looping into Ronnie Vierkandt's property into the corner, and south of D41 60-70 feet. Runge stated that would give them a clear picture of what is going on in that area. Vierkandt stated that it still bubbles up on neighboring parcels, the problem is below him somewhere. Hoffman stated it sounds like the request is substantiated, we can get to the bottom of things. Gallentine asked if they were talking about televising about a quarter mile of district facilities if he is looking at that right. Runge stated it would be 1/8 of a mile to D 41, probably 1/8 of a mile west, then 500 feet south. Runge pointed to the map where he would like the district facilities to be televised. Vierkandt stated water is coming out of the intake on that route. Vierkandt stated all of the years they have never had any problems in that section 34, he recalls that the county has only been out there a few times. Gallentine stated he recalls the problems in 34 being in the lower 3 acres or so. Runge stated the one time he thought he was going down the tile. Gallentine asked what size tile is in Vierkandt's 80. Vierkandt stated there is a 14 in Luke's 80, he does not know from there on down. Runge stated there might be a 12 in his corner. Vierkandt stated he thinks it is bigger than a 12 going across the other

80. Vierkandt asked if Urhammer knew, he has been down there when they were digging it up plenty of times. Urhammer stated it could be 18. Gallentine stated it must stay at 14 or 15, for our repair the biggest we are putting in is 15.

Gallentine stated as far as televising it is up to you folks, we do not know anything about the condition of the tile in that area. Gallentine stated CGA does not have record of anything in that area really. Granzow stated he does not have any complaints of televising in that area. Hoffman stated looking at the classification we have a large percentage of the owners at this meeting. Runge stated right or wrong he is representing another individual.

Motion by Granzow to start televising where the main exits the field in section 26 traveling on the east side of S27, the north side of D41, moving into section 27 then continuing into section 34. Second by McClellan. All ayes. Motion carried

5. DD 14 - Discuss W Possible Action - Engineer's Report On Repairs & Improvements To Main Tile Of DD 14
- Hoffman stated he is going to guess that we hold off on any action until we get the results of the televising back. Hoffman stated while everyone is here, we can still go through the report and discuss the options so he will give the floor to Gallentine. Gallentine stated he will go through the report but does not think it is necessary to read it word for word, most of the people in attendance have been through these hearings in the past. Gallentine stated they were requested by the district Trustees to make a report for possible repairs or improvements in DD 14. Gallentine stated their study was limited to the lower 2,900 feet of the tile, there are maps in the report they can flip to for a clear picture. Gallentine pointed to the lower 2,900 feet on the map, starting at the outlet where it is connected to DD 123. Gallentine stated this is roughly Ronnie Vierkandt's south property line. Gallentine stated a little bit of history on this district, it was established around 1909-1910. Gallentine stated it is a little bit different than other districts because we have history of repairs in 1915-1917 era, right after the installation it sounds like they were having issues with the tile (faulty workmanship/tile). Gallentine stated we started getting repairs then a gap, there might be something there, we just do not have a record of it, from the 1950-2000s there is 40 repairs in section 34, 21 of those all of which were in the first five years of construction. Gallentine stated it goes to tell you that whatever happened there was not according to plan. Gallentine stated a lot of the drainage districts do not have that issue when looking through their history. Gallentine stated in 2020 they did some televising, about 1900 feet in section 34, they found 26 locations where the tile was starting to squat down. Gallentine stated we call those a partial or imminent collapse, if it cracked that is another thing, it can still support itself on the sides. Gallentine stated CGA is not sure if those are due to the age of the tile, a continuation of the original installation issues, or a combination of both. Gallentine stated either way if something is not done the main tile will have poor drainage performance. Gallentine stated upstream landowners will continue to have poor drainage, ponding, and risk of sinkholes. Gallentine stated all told you will just have reduced drainage compacity as you keep moving forward. Gallentine asked if there are any questions to this point.

Gallentine stated for solutions they're proposing a couple of different options. Gallentine stated for repair options, trying to maintain the original design/drainage compacity we will be putting in the same size pipe for example: if there is a 14-inch pipe, we will put in a 15. Gallentine stated if we want to repair this, we are looking at the following options: (1) replace the lower 500 feet of tile with same or similar size tile in the same location or a 20-foot offset, and (2) this option is essentially the same as above, but the length is longer, rather than replacing the lower 500 feet this option would replace the lower 2,900 feet. Gallentine stated a few assumptions: (1) we would put in the same size that is currently manufactured, (2) the only portion of repair would be in the red on the maps provided in the report, (3) they would use rock bedding and backfill (he does not mean full depth, but they would bed the bottom half in rock if it is concrete pipe or if it is plastic we would fill it all the way up to the top of the pipe for stability), (4) we would try and match the slopes and grades with the original design as part of the repair. Gallentine stated the whole intent of a repair is that it would not significantly increase any drainage compacity out there. Gallentine stated the original tile was designed for .1 inches per day. Gallentine stated if all of your drainage had occurred just through this tile, a one-inch rain would take 10 days to drain out. Gallentine stated we all know if flows overland and does everything else besides just flow through this tile, but this gives you an idea at it's current compacity. Runge asked what can be done to improve that? Gallentine stated he will talk about that next. Gallentine stated historically repairs have been viewed as not impacting jurisdictional wetlands, but we always recommend if any district project moves forward repair or improvement to go talk to the NRCS. Gallentine stated CGA cannot talk to the NRCS on the landowner's behalf, they will not get any information. Gallentine asked if anyone had any questions on the repairs. Granzow asked what the cost of each would be? Gallentine stated the cost of replacing the lower 500 feet is estimated to be \$62,400. Gallentine stated the lower 2,900 is estimated to cost \$288,000. Gallentine stated that cost includes labor, materials, equipment, engineering, designs, bid letting, and construction

observation. Gallentine stated this cost does not include interest, legal fees, administrative fees, crop damage, or any other fees.

Gallentine stated if you want to increase drainage compacity you could essentially do the same routes 500 feet or 2,900 feet with larger pipe. Gallentine stated they threw a 24-inch pipe in there, that would increase the drainage compacity to .34 inches per day (tripling the drainage compacity). Vierkandt asked why they would do that because it wouldn't pay for the top. Gallentine stated that is a good question, he's been to several drainage hearings and always says if you buy an old house do you fix first or the foundation. Gallentine stated he has seen it done both ways. Gallentine stated he will say this, if you lower the tile, you will have to start at the bottom. Gallentine stated he knows it does not get them to a ½ inch drainage coefficient which everyone likes to have, but it sure triples compared to what they currently have. Gallentine stated NRCS would view this as an improvement and will probably view it as having an impact on jurisdictional wetlands. Gallentine stated if we choose this route could you please talk to the NRCS to and get their determinations and send them back to us before the design or during the design of construction and not after the fact. Gallentine stated if you wait too long, they send notices not just on the farm in question but on everything you farm and that can just be ugly. Granzow asked if the laterals would be separated out. Gallentine stated the costs of everything for the 500 feet would be \$73,650 to triple the compacity for an extra \$11,000. Gallentine stated for the lower 2,900 feet it would be \$353,250 tripling the compacity for \$70,000 more. Gallentine asked if there are any questions on what is being proposed. Runge stated just so Ronnie is clear, he is not proposing doing work where he is at, he just has questions and concerns about the tile. Gallentine stated you just want to make sure you have access to this if it does happen. Runge stated yes, he would hate to spend 43% of \$350,000 to have water still blowing out of his intake when he's just paid for the neighbor to have a full new outlet for their farm. Gallentine stated he can guarantee if you spend this much money one day there will be water blowing out of his intake, we've had some crazy rain. Gallentine stated he guarantees it will fail sometime because we cannot build it big enough for everyone. Runge stated he understands that. Runge stated he is not proposing that we start making improvements in section 27 and 34 on the top end, he just wants to see what the tile looks like. Gallentine stated he understands it is a different kind of scenario, a lot of them you're locked in, here, elevation wise you're not locked in we have depth that we can take advantage of. Runge stated there is tremendous fall from section 34 to probably the middle of 34 where it flattens out. Gallentine stated that is something is worth mentioning, that .34 inches a day with a 24 inch is assuming we stay on the same grade with what is there we just lower it. Gallentine stated if we wanted to, and you're ok with the depth of this thing, we could change the depth of this grade to steepen it. Gallentine stated if you stay at a low elevation at the outlet and you stay existing elevation further up and just put a steeper grade will give you more drainage compacity. The Trustees asked the landowners if they would like Gallentine to start looking into this option. Runge stated he would like to know what the results of televising are before he votes on something like this. Hoffman asked if the landowners would like CGA to start looking into that option, in the meantime between today and the day someone televises CGA can start working on the proposals on other options. Gallentine stated on some districts it does not make sense because you only have a foot of cover, here you have a foot and half of cover. Gallentine stated you guys tell me, do you already have enough cover up here already on this tile? Runge stated he has never had a blow out up there other than right up on that intake. Ron Vierkandt stated if you would have asked me right before I got here, I probably could have told you. Vierkandt asked how deep the intake was right at Luke's driveway. Gallentine stated if it was a shallow tile, you guys would probably say you hit that all of the time. Gallentine stated that may be a possibility is we change that grade instead of hitting that .34, maybe we can get something bigger. Runge stated he has the original drawing of this, when he looked at it there is a 36-foot fall, the grade is something this district has vs other districts. Runge stated we have grade in this district to make it better, it would be foolish not to utilize that. Gallentine stated on the original profile the first 300 feet is at 1/10<sup>th</sup> grade.

Granzow asked if anyone is interested in doing the repair at all or are we looking at improvements? Hoffman asked Runge what his thoughts were. Hoffman stated at 43% he does not want to dismiss anyone else, but he wants to see what the majority landowner would like to do. Vierkandt asked if we would need a reclassification. Gallentine stated we can talk about that. Granzow stated an improvement might trigger that anyway. Granzow stated he just wants to know if they are not talking repairs, we should get that off of the table. Runge stated he thinks that is off of the table. Vierkandt stated he thinks so too, they are getting too expensive. Gallentine stated once you get passed that lower 300 foot that is really flat, you have anywhere from ¾ to 9/10 of a foot of fall every 100 feet, you're right this is a pretty steep district once you get going on it. Gallentine stated that is something we can tweak for sure, we talked a little bit about classification.

Gallentine stated if the District Trustees were to go ahead with the repair we would not have to reclassify, unless they feel that the current classification is inequitable. Gallentine stated if an improvement moves forward these laterals have not been separated so they have their own classification, one would have to

happen. Gallentine stated since we are improving the main, he does not know if we would have to separate the laterals that is really a legal question. Gallentine stated right now if something happens everyone in the district would pay their portion of the bill, if you reclassified you would have a separate schedule for lateral 2 only the people within the watershed of lateral 2 would pay and that is a code requirement. Gallentine stated more and more districts are going to that because it feels a lot more equitable. Gallentine stated they've also ran into during the reclassification process in other districts laterals being really short where the landowners would want to abandon those and fix them themselves. Gallentine stated the cost for the district to maintain 150 feet of 6-inch tile is probably not necessary if you could do it yourself or call someone else. Gallentine stated that would probably not be the case for this district, most of the laterals are longer. Jack Runge stated he owns all of the ground lateral one goes through. Gallentine stated there might be some potential to abandon that lateral then. Runge stated if there is he agrees with that. Gallentine stated at the time the district was established they made sense based off of what they could do and maintain on their own. Granzow stated he is assuming there were a lot more landowners involved. Gallentine pointed to the map in the Engineer's report and stated the dash on the map was in there before the district was established the district adopted the tile. Gallentine asked if there were any questions up to this point.

Granzow stated what he is hearing is we were looking at an improvement, but we want to send Gallentine back to the table to get a different slope instead of what is presented to us. Gallentine asked if anyone saw any need to go bigger than a 24-inch tile? Granzow asked if it would hurt to throw a 30 inch? Gallentine stated he does not know the cost of that. Granzow asked everyone if they would like to see the cost of that. Gallentine stated it was their call, what you determine to do in this project if something moves forward will dictate the next 100 years, I mean we are talking about what they did in 1909. Vierkandt stated he would like to do better for his great grandkids than what his great grandfather did for him. Hoffman stated with the technology and what was available at the time that was the best they could do. McClellan stated they probably did not have 30-inch tile back then. Gallentine stated they did. Gallentine stated I guess the better question here is would you guys be interested in knowing what it would take to get a 1-inch coefficient. Runge stated he is afraid of what it would cost. Gallentine stated it would improve drainage by upsizing or dropping it. Granzow asked how much money it would take for CGA to come back with answers to a 1-inch coefficient vs. 1/2 inch coefficient downsizing. Gallentine stated it would not take much, maybe \$1,000. Granzow asked for \$1,000 do you guys want to know? Runge stated you would be limited by the new main that was put in. Gallentine stated maybe the better thing is if you would let us loose to see what we could accomplish if we just decided to tweak the grade and the size and see what optimizes things. Runge stated so many districts do not have the option of fall out. Gallentine stated you have the option of fall out and you have improved outlet that is deeper. Runge stated they had some issues when they started getting deeper with what they had to work with, so they brought the tile different ways then came up to level off. Runge stated that is basically what they did in 34 because it would be silly not to maintain an even grade from the new main to wherever far we go, utilize the fall that is available. Gallentine stated the extra depth, you're right that goes to fall but it also goes to the fact that we could maybe hit that flow line and put in a bigger pipe, but the top of that tile is not any higher elevation than it is right now. Some districts run into the problem where they have a 24-inch tile and they want to upsize to a 48-inch tile, well we only have a foot of cover so we can't do it. Granzow stated so you want to maximize the flow is what he is asking. Runge stated he does not know if he would call it flow but he would call it fall. Runge stated he wants to keep the grade even you start having the blowout issues when it is not.

Gallentine stated we are at the recommendation part of the report, we recommend the report is approved which the Board has already done. Gallentine stated we recommend that you adopt one of the recommendations of our report and go to a bid letting but I think with the televising you might want to hold off on that. Gallentine asked how the Board of Trustees would like to proceed. Hoffman stated he would like to see it televised and he would like to reconvene in person probably in June. Hoffman asked if it would be permissible or ok once we get the information from Paul we can share the report as long as someone has their email. Hoffman stated from there we will find out from the landowners when they would like to reconvene. Gallentine stated he will say this based off of what we did with other meetings, if you close and adjourn and you do not have a set date you will have to resend notices and republish. Granzow asked if they have a date in mind. Hoffman stated we have June 1<sup>st</sup> and June 8<sup>th</sup>. Kuechenberg stated the first and the eighth are available. Hoffman asked the landowners if they would like to plan for the 8<sup>th</sup> just to be safe at 10 a.m. Runge asked if they should write that down now or if the Drainage Clerk will send a letter out. Gallentine stated he would write it down. Kuechenberg stated for everyone that did not hear that was June 8<sup>th</sup> at 10:00 a.m. Gallentine stated the issue gets to be if they adjourn, they have to resend letters out certified, right? Kuechenberg stated we would have to send letters out again and publish the notice of public hearing in the newspaper again. Gallentine stated for such a small district he does not know if it is really worth that extra expense. Hoffman asked if everyone had an email on file with our Drainage Clerk as we get data, we could send that to. Some of

the landowners stated they did not have an email. Hoffman jokingly stated we could send smoke signals up there.

Motion by Granzow to recess the meeting until June 8<sup>th</sup> at 10:00 a.m. in the Large Conference Room with the added information and the results of the CCTV. Second by McClellan. All ayes. Motion carried.

#### 6. Comments/Discussion

#### 7. Possible Action

#### 8. Other Business

Gallentine thanked the landowners for the discussion and stated they have a lot of history that he does not have. Ron Vierkandt asked when they can require or ask the Trustees for a reclassification? Hoffman stated the landowners can ask for a reclassification anytime, but he would probably tell them to wait to see what the improvement looks like. Hoffman stated he would also suggest that the landowners discuss what they would like to do with the laterals whether they're separated, abandoned, or remove them that way we can tell CGA what we would like to do in the reclassification process. Granzow stated he would wait for the televising. Gallentine stated the landowners can ask for abandonment of the laterals at any time, it does not have to be a part of a project or in the reclassification process. Gallentine stated it is a petition process and a meeting. Hoffman asked the landowners if they wanted the petitions to look at between now and then they can follow Kuechenberg upstairs and she can hand them the information needed. Gallentine stated it is ½ of landowners who own 60% of the ground. Kuechenberg stated that was correct. Granzow stated if they want to turn it into us right away, we can have it in a motion next week. Gallentine stated if it makes sense. Gallentine stated they can do what they want, the district will gladly maintain anything the landowners want. Luke Vierkandt asked what the process with the NRCS was, if he just needed to call and ask if he had wetlands on his property. Gallentine stated, yes, you can just tell them that the drainage district is thinking about doing an improvement in DD 14 and ask where the jurisdictional wetlands are. Luke asked if he was asking for just on his land in a specific spot? Gallentine stated you might want to get it for all the ground in the district, some people do, and others do not. Granzow stated anything you are a tenant or a landowner on you can do that on. Gallentine stated they might look at the file and say they already did one that is recent enough they do not need to get it again. Gallentine stated when you get it, please send it to us. Luke Vierkandt asked if that was preventative maintenance on their part where they should just get it looked at within the next month anyways. Hoffman stated he would get an answer sooner than later. Gallentine stated Runge's is probably already done. Runge stated they called his prior converted, it went from a wetland to prior converted. Gallentine stated there are different classes of wetlands, there are some that are prior converted that were tiled out and as long as you're growing a crop on them you have a right to drain them, but you do not have a right to improve drainage. Ron Vierkandt asked if that is what this would be called. Gallentine stated when you start upsizing drainage, we may have to have a discussion with NRCS. Granzow asked if 1986 was the cutoff year. Gallentine stated that was correct. Granzow stated if you have prior tile in before 1986, you're entitled to that amount then they hold you to that.

#### 9. Adjourn Meeting

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

**REGULAR DRAINAGE MEETING****Wednesday June 08, 2022, 10:00 A.M.****This meeting was held electronically and in-person**

6/8/2022 - Minutes

## 1. Reconvene Meeting

Hardin County Trustee Lance Granzow opened the meeting. Also present were Trustee Renee McClellan; Lee Gallentine of Clapsaddle Garber Associates; Jack Runge; Ron Vierkandt; and Michelle Kuechenberg, Drainage Clerk.

## 2. Approve Agenda

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

## 3. Introductions/Attendance

Introductions were made and attendance was verified.

## 4. DD 14 WO 290 - Televising Results

Granzow asked if there has been any written requests or phone calls. Kuechenberg stated she received an email from Cindy Loerger stating she would like to vote the same as Jack Runge.

Gallentine stated they started at the existing access point right at the south side of the D41 to S27 per the landowner request. Gallentine stated they ended up televising upstream about 1/8<sup>th</sup> of a mile north from the intersection of D41 and S27. Gallentine stated the tile is not in bad shape overall, a few cracks here and there, but it is pretty much still round. Gallentine stated there were signs of previous repairs, we found plastic in some spots and rusty CMP in other spots the biggest problem they were concerned with was a private connection that was intruding enough so that they could not get past it when they were televising. Gallentine stated in that same spot the clay tile may not have been good when they made the connection because there is some single wall, they replaced it with and you can see the top starting to deform. Gallentine stated the CMP is another concern because once that stuff starts to rust it usually does not take long to rust through, Gallentine added there was about 62 feet of that. Ron Vierkandt asked how he is getting 62 feet, it must be in the road. Gallentine stated he thinks most is in the road and there is some in the field. Vierkandt stated about 4-5 feet would be on his property. Gallentine stated that piece under the road we were aware of and that is why we put in that inspection. Gallentine stated there is a little bit less than 20 where the pipe is not only cracked but there are some random cracks going in some weird directions. Gallentine stated that is something to watch, he does not know if it will fail or when, but it is not as big of a deal as that deformed single wall plastic. Gallentine stated if anything moves forward with the project or not, we recommend that the intruding tap and single wall be replaced will dual wall or something that does not intrude other than that it appears to be clear and flowing. Runge stated 6 foot in they had to change the tires because it is in that far. Runge stated he asked Lee a couple of weeks ago about his estimate and asked if he would like to repeat that. Gallentine stated they had talked a couple of weeks ago because Runge wanted to know what kind of compacity reduction that would be. Gallentine stated looking at it he might be losing 20% at the spot they discussed, it is hard to say how far up the stream that reflects. Gallentine stated the other thing is you get reductions if you go from a smooth wall pipe to a ripple wall pipe, a ripple wall pipe has more friction in it. Vierkandt stated he does not have a clue where that came from, he has never tiled on that 20. Vierkandt stated he knows it was fixed, but it was fixed by Zoe and he does not think Zoe would do that. Gallentine stated he does not think anyone would purposely do this. Runge asked which one they were referring to. Gallentine stated the tap that is intruding. Vierkandt stated he has never put any tile in that 20, there is some plastic tile coming up to it. Runge stated he is going to disagree. Runge stated Luke Vierkandt came flying out there with his pickup when they were going to dig it up because they could not get the camera by it and Luke stated he tried to reach in there and cut it off. Vierkandt stated the one that they tried to cut out was further upstream. Runge stated Luke told him that. Vierkandt stated Luke did not say that. Vierkandt stated it is further downstream right on the edge on the road, he knows where Runge is talking, but he did not do that. Vierkandt stated he does not have any plastic in that 20 where it dropped out one year in the mid-summer when the corn was tall, they had a hole where it blew out and it was fixed by Zoe. Runge stated Luke stood right there and told them when he came flying over there. Vierkandt stated Luke was further down, he has to be. Vierkandt stated no matter who did it, it's not our fix. Gallentine stated typically when the taps are intruding no one does that intentionally. Vierkandt



stated they found some that are by the road there, but that is how they made them back then. Vierkandt stated that was a fix at some point, but he never did that. Runge stated Luke came right over there. Granzow stated we should move on, but he agrees this does need to be fixed. Gallentine stated he recommends that it does get fixed and so it is not intruding. Runge stated he has questions about the one that is 6 foot in the picture in the Engineer's Report. Granzow asked if they are saying it could have been a repair. Vierkandt stated it is a repair, but he has never tiled into that 20 with plastic. Granzow asked if Vierkandt had repairs on that 20. Vierkandt stated he has. Gallentine told Lance that Runge is talking about the intruding taps in the road ROW. Gallentine stated it is where the rusty CMP is right now. Vierkandt asked where they were. Gallentine stated they were in the road right of way. Vierkandt asked if it was on D41 by the access point where they started televising. Gallentine stated they are probably close to the road surface or shoulder. Gallentine stated it appears to be flowing pretty good. Runge stated he was happy with the way the tile looked, it's round yet and has not mushroomed.

Gallentine stated he guesses there is one thing he forgot to mention, at the end of televising they turned and looked at a lateral that was coming in from the west and there was a bottle in it. Gallentine stated that is a private tile issue. Runge stated he thinks the glass bottle was cemented in. Gallentine stated you can see the bottom of the glass bottle. Granzow asked if the glass bottle will eventually get into our district tile and cause problems. Runge stated it was right at the T. Gallentine stated it is possible it could, it would not hurt as a preventative measure to go get it removed. Gallentine stated it is an old bottle, he bets it has been in there since the tile was laid. Granzow asked what the owners think, should we go after the bottle? Vierkandt asked if it was over where they stopped in the televising. Gallentine stated it was at the north end going to the west. Runge stated it would be about 8.84. Gallentine stated it was at 9.40. Runge stated it does look like it is cemented in. Gallentine stated it is either mud or cement around it right now. Granzow stated it does not sound like at this point it would be very productive to go after that then. Gallentine stated it is not a huge bottle because the lateral coming in is maybe an 8 and the bottle cannot be anymore than 2-3 inches diameter. Gallentine stated it was just interesting, he has never seen a bottle chucked in the tile before. McClellan stated it looked like a booze bottle. Runge stated he thinks it says Des Moines on it, he blew it up on the computer. Granzow jokingly stated we know where it came from and where to send the bill to then.

Granzow stated as far as televising goes, we see one protruding place that needs to get fixed. Gallentine stated that was his biggest concern. Granzow stated that was the only thing we were concerned about in the upper part of the district. Gallentine stated that was correct. Runge stated there are three. Runge stated the one by the road looks like they used plastic couplers and it looks like the problem is in the reduced part of the coupler. Gallentine stated it looks like they used an internal coupler to make the connection and they cut the hole small enough that the internal coupler will go in but the ribs wont, so the only thing protruding is just a couple of inches of the internal coupler and that is it. Granzow asked if that was something we should go after. Gallentine stated it was in the road right of way, it is your call. Granzow stated he is leaving this up to the landowners. Vierkandt stated it did not bother him. Granzow stated if he was to be asked, he would leave it until it creates a problem, but he is asking the landowners because we are all here and we know it is there. Vierkandt stated that must have been when they put the steel underneath it. Runge stated it is in the steel, they drilled it and did a good job. Gallentine stated they did do a good job, but like he said he thinks they cut the hole big enough for the internal part and used the ribs as a shoulder, so it did not go too far. Gallentine stated it cannot be more than a couple of inches protruding. Runge stated he would be happy if they got the big one out, when you cannot get the camera past it you know it is in there quite a way. Vierkandt stated it can't be too much because it still bubbles out in his driveway which is downhill from that. Vierkandt stated it has not bothered much over the years otherwise it would boil out in his driveway. Granzow asked Jack which one he was talking about when he stated he would like to take care of the big one. Runge stated the big one he is worried about is the 262 part by the farm driveway. Vierkandt stated they would not care if they went in and fixed it now. Gallentine stated he would like to go and get it done because in the fall the contractors are busy. Runge stated that is true. Vierkandt stated it would not be a crop damage deal because it is not very far in. Granzow stated he would probably tie it to the rest of the project that we are going to talk about in a minute here. Gallentine stated, if the rest of the project moves forward he does not see a reason why it could not get done with everything else. Granzow asked if everyone is ok with doing that. Vierkandt stated he was. McClellan stated so everyone agrees on fixing just the one. Granzow stated and tying it to the rest of the project. Runge stated he has comments on the rest of the project. Granzow asked if we were ready to get to that part? Gallentine, Runge, Vierkandt stated they were ready to get to the next part of the discussion.

5. DD 14 WO 290 - Engineer's Report On Repairs Or Improvements To Main Tile & Engineer's Opinion Of Probable Construction Costs W Upsized Tile

Gallentine stated at the last meeting the landowners requested that CGA write up a report to see what a ½ inch and 1 inch coefficient would look like. Gallentine stated the lower 300 feet of this drainage district is at a

pretty flat grade, the rest of it is at a pretty decent grade almost approaching 1% in spots. Gallentine stated since DD 123 had their improvement several years ago lowering the new main, we could hook into the new main to get a steeper grade in that 300 feet using 18-inch tile to get a ½ inch coefficient. Gallentine stated we would go from the existing 15-inch tile to an 18-inch tile to get a ½ inch drainage coefficient for the 500 foot or the 2,900 feet. Gallentine stated a 1-inch coefficient would take us to a 24-inch tile. Granzow asked how much more money it was to go to a 1-inch coefficient vs a ½ inch coefficient. Gallentine stated that is what he is going to talk about next. Gallentine stated for the 500-foot option at a ½-inch coefficient they would be looking at \$74,387 a 1-inch coefficient would be \$81,262. Gallentine stated this is just what we see on local bid lettings this spring. Gallentine stated essentially to go from a 1/2 inch to a 1 inch it is only going to be an extra \$7,000 or 10%. Granzow asked Gallentine to stop right here for a moment. Granzow asked the landowners if we go this route would they like to look at the ½ inch or could he throw that out. Vierkandt stated he would throw it out. Granzow stated he heard Vierkandt. Granzow stated if the project moves forward you would double your coefficient for \$7,000. Gallentine stated for the 2,900-foot option it is pretty much the same story, if you go with the ½ inch coefficient you're a little over \$360,000 and if you go with a 1-inch you're right at about \$400,000. Granzow stated we can figure out which route we want to go from there he just wants to eliminate one or the other, so we are only talking about one size. Vierkandt stated he was for the 1-inch coefficient. Runge asked if the Trustees wanted his comments on the whole project right now or if they wanted him to wait until the end of the meeting. Granzow asked if Runge could wait until the end on the comments for the whole project. Granzow asked hypothetically if we were going to go with one or the other routes, which one would Runge like? Runge stated it would be crazy to do the ½ inch. Granzow stated that was all he wanted to hear. Granzow stated moving forward we could eliminate the ½ coefficient from the discussion. Gallentine stated by tweaking that size and especially that last 3-400 feet on that grade you can really get a consistent drainage coefficient throughout. Gallentine stated assuming DD 123 provides an adequate outlet, which he assumes it does, the last 3-400 feet is the bottleneck in the system. Runge stated DD 123 is also hooked into the old main. Gallentine stated if we lower that last 3-400 feet the old main is not going to flow anything until it gets to a certain waterflow. Vierkandt stated that is right, but there is a lot of compacity there. Gallentine stated that is correct.

Granzow asked Gallentine to explain why we were looking at this again before we move onto Runge's comments. Gallentine stated going back to the original report, we were looking at this because if he remembers correctly this is the district that has quite a few issues when it was installed brand new. Gallentine stated they found about 26 spots on the main tile when they televised that were starting to collapse downstream of D41 on the lower end. Gallentine stated they were originally looking at a repair 500-2,900 feet which would be the same size and design. Granzow stated with a little bit more money we could go with an improvement, correct. Gallentine stated that was correct. Gallentine stated right now the existing compacities in that lower 300 feet they only have 1/10 of an inch per day because of the flat grade. Once we get out of the flat grade the 15-inch gives you 3-4/10 per day. Gallentine stated the existing design other than that lower end is pushing ½-inch. Granzow stated now that he has the history, he would like to hear from Runge. Runge stated he feels for the cost it would do very little for him. Runge stated he understands the Trustees do not want to let things become a problem, but he talked to Cindy a couple of days ago. Runge stated apparently Cindy and Annette have had a discussion on all of this and he spoke with Annette the other day. Runge stated he got from the two girls that they would go the fix as fail route right now, especially Cindy being absolutely against it. Runge stated he spoke with Annette for about an hour the other day, we all know what her interest in all of this is but she calmed down a bit and is not pushing. Gallentine asked if Annette was a current landowner in the district. Runge stated she was not. Granzow stated he thought Annette and Cindy own it together. Runge stated it was Cindy's property with a life estate to Annette's two sons. Granzow stated that is how it is recorded on the paper, that is why Annette has the ability to call in a claim because her name is on their as an owner. Gallentine stated he did not know about that. Runge stated he did not think so. Vierkandt stated she would have ownership on the farmstead. Vierkandt stated she owns the farmstead, he knows that. Runge stated show me where her name is listed on any of this paperwork. Vierkandt stated maybe the farmstead is not in this drainage district. Runge stated he thinks the farmstead goes to the tile district that runs down through the waterway south of the house. Vierkandt stated that could be. Runge stated she called him because they are all friends. Granzow stated so they are on the fix and repair mode. Runge stated fix as fail. Granzow asked if anything has failed at this point. Gallentine stated nothing has failed, it is still flowing. Runge stated he has farmed that for quite a few years he thinks there is one up at the top end and one at the bottom end in all of the years he has farmed it. Gallentine stated there is no existing failures at this time, there is evidence that there will be future failures based off of the lower end. Granzow stated this report is good for 10 years. Gallentine stated Vierkandt asked him how many repairs have been done in the last 10 years, he was going to look that up for him real quick. Granzow stated so in the future if we were to do anything in this district, we are still looking at the 1-inch coefficient, correct? Runge stated that is correct. Gallentine stated it looks like there has been 8 repairs in the last 20 years and about 4-5 in the last 10. Vierkandt stated they are getting so

expensive. Runge stated that is part of his point why he is against doing this right now. Runge stated the cost of fuel is inconsistent and there are surcharges on everything you do, he seen what we had to do with the other district how they had to re-hearing because the cost was totally inconsistent with what the first bid was. Granzow stated the fuel surcharge does scare him a little bit until they can control that, we are at an unknown. Gallentine stated he thinks that was about a 10% adjustment from the supplier if he remembers correctly. Runge stated that was right. Runge stated that is Cindy's position and his for right now.

Granzow asked Vierkandt he understands he wants to fix it, is he ok looking back at this in a year from now. Vierkandt stated he would go with that, but he is in favor of making a new 500 feet down there at the bottom from what he has heard here today. Vierkandt stated we have to do something someday. Vierkandt stated the biggest thing for him was that with 500 feet we can make a heck of a change. Gallentine stated that first 300 feet you could change from 1/10<sup>th</sup> inch per day to 1-inch per day if you install it at a steeper grade and go with a 24-inch tile. Vierkandt stated he would go with that. Vierkandt asked about the prices, if they are current bids. Gallentine stated these prices are not bids they are prices that CGA has seen on bid lettings earlier this year per foot. Vierkandt stated if they could hold that at the price listed, he can't see why we wouldn't want to do 500-feet to double our coefficient. Gallentine stated on the 300 feet you would have a 10-fold increase because it is 1/10<sup>th</sup> right now. Granzow asked Runge if he would be in favor of doing the bottom 3-500 feet. Runge stated he has 2 strong no's on his back. Vierkandt stated he can come up with 3 strong yes's his son, grandson, and George loerger. Granzow stated at this point he is just trying for a compromise between the two people here. Vierkandt stated we have been sitting here for almost 100 years and have not done anything, we cannot just keep going. Gallentine asked if he could interject. Vierkandt stated that was fine. Gallentine stated the option we have is either 2,900 or 500, the flat portion is only 300. Gallentine asked what if we just replaced the flat portion whether it is 275 or 300 as an improvement and get prices. Gallentine stated maybe that is a middle ground. Gallentine stated you are getting the continuity of drainage coefficient but you're not doing any more than you have to. Granzow stated the other thing is, if we move forward on this, we do not have to accept the bids. Gallentine stated this is a low enough dollar amount that it will not be a huge formal bid process that we would have to go through either per code. Granzow asked if we were interested in looking at those numbers. Vierkandt stated he was, and he knows his son and grandson would be too. Granzow stated he knows Jack is a hard no, but if the numbers come in more than the estimated bid price then we do not have to talk about it again. Runge asked if 300 would get us to Sweeney's fence line. Gallentine stated he thinks it will be a little short, that was the whole purpose of going the 500 feet. Granzow asked if he heard 300. Gallentine stated that Jack wanted to know if 300 got would get them to Sweeney's fence line. Granzow asked if he was hearing that they would like to take the bottom 300 to bid so we can get a price on it. Vierkandt stated that is the way he would like it. Runge stated he would take it to price, but he is not saying he would support it he would have to make a phone call. Granzow stated if he went this far and the bid came in under the estimate it would probably be very advisable for us to move forward because the likelihood of anyone pricing it under the estimate is very low with the price of fuel. Granzow stated if it goes under the estimate, he would be in favor of moving forward. Vierkandt stated if they come in under the estimate, he is in favor of moving forward too. Vierkandt asked if most of the change was in the first 300. Gallentine stated that is what they're seeing where the flat spot is. Granzow stated this would create an improvement to the district. Gallentine stated that was correct. Granzow stated the other option is that we do not do anything. Granzow stated he just wants everyone on the same page if we do take this to bid that they know exactly what he is thinking. Runge stated he would like to be able to make the decision after they take it to bid, he is not ready to give his support. Runge stated he would like to discuss things with prices in hand. Granzow asked Vierkandt if he was ok with that. Vierkandt stated he was. Granzow stated ok, so when we get the prices from the bid, we will have a discussion to see if it moves forward or not. Runge stated he guesses since he is speaking for someone else, he would rather do that. Runge stated he was sent here with a clear mission today. Vierkandt stated he was too. Granzow stated his third option is to send each landowner a card and to go with a majority of whatever the vote is. Runge asked if that was a majority of the assessment or a majority of the landowners. Runge stated there is a big difference, if it will cost them \$1,000, he would do it in a heartbeat, but if it is going to cost a \$40,000 he is going to think twice and look at that. Granzow stated if he sent a card out it would be under the estimate so you would know that dollar amount or under. Granzow stated he does not know if he would like to go that route because he likes the presence of people. Granzow stated it is hard enough he is on the phone for this meeting. Runge stated he thinks that is best. Granzow stated we could table this and come back in another year or so, prices might be higher or lower. Granzow would like direction as to some type of compromise. Granzow stated he is getting that we are going to take the lower 300 foot out for bid and decide whether or not we like that dollar amount or not. Runge stated he can go with that as long as we have another decision point. Granzow stated if we are going to take it out for bid at that point, he would like all bidders to know that we may not take their bid even if it is low. Gallentine stated we've done that before. Gallentine stated what he is hoping for is to find someone that is short this summer and that can do it on a lien just to fill out a couple of

weeks. Runge stated he has heard that projects are getting shut down as fuel and supply costs are spiking. Granzow stated he is ok with the project and our plans at this point. Runge asked if this would be a big plastic or concrete bid? Gallentine stated he usually bids them both and lets the market decide because they have both been fluctuating in price. Vierkandt stated he preferred concrete. Gallentine stated he can put that as the base bid and get an alternate for plastic. Gallentine stated some guys will only bid concrete like the Gehrke's others will only bid plastic because it goes in quicker. Runge asked if they are going to tie the projects on the top ends to this project? Gallentine stated he would make it part of the bid. Granzow stated if we do not go forward with the project we will do it as a repair later, either way it needs fixing. Granzow stated it just makes sense while they are there.

6. Comments/Discussion

Granzow stated he has to thank everyone here for being patient with him today as he is joining in the meeting by phone.

7. Close Public Hearing

Motion by McClellan to close the Public Hearing. Second by Granzow. All ayes. Motion carried.

8. Possible Action

Motion by McClellan to instruct Gallentine to get bids for upsizing the lower 300 feet of tile to a one-inch coefficient and a repair on the upper end of the district, also to notify bidders that there is no guarantee that the project will move forward after bids are received. Second by Granzow. All ayes. Motion carried.

9. Other Business

Granzow thanked the landowners for coming in. Gallentine stated he thinks it is great to have interested landowners. Granzow stated the more landowners that come in when bids are received the better off we are making a decision. McClellan stated if some people would be more comfortable on zoom we could definitely have that as an option too.

10. Adjourn Meeting

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

**REGULAR DRAINAGE MEETING****Wednesday June 01, 2022, 9:30 A.M.****This meeting was held electronically and in-person**

6/1/2022 - Minutes

## 1. Open Meeting

Hardin County Drainage Chairperson BJ Hoffman opened the meeting. Also present were Trustee Lance Granzow; Trustee Renee McClellan; Lee Gallentine of Clapsaddle Garber Associates; Justin Ites, Times Citizen Communications; Michael Pearce, Network Specialist; and Michelle Kuechenberg, Drainage Clerk.

## 2. Approve Agenda

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

## 3. Approve Claims For Payment

Hoffman stated the claims for payments are in the amount of \$249,298.09, there is a large on there for DD 56 Pay Estimate # 3 to Gehrke. Kuechenberg stated Pay estimate # 3 is included with the claims and on the agenda as item number five for the Trustees to review.

Hoffman stated we will move to item number four on the agenda and come back to the claims.

Motion by Granzow to approve the claims for payment with a pay date of 6/03/2022. Second by McClellan. All ayes. Motion carried.

Description	Vendor	Amount
DD 26 LAT 4 WO 306 -	Honey Creek Land Improvement, LLC	\$14,220.00
DD 26 Lat 4 WO 306 -	Clapsaddle-Garber Assoc	\$915.95
DD 56 WO 03 - Pay Estimate 3	Gehrke Inc.	\$249,298.09

## 4. Discuss W Possible Action - Consideration Of Cancelling The 06/22/2022 Regular Drainage Meeting

Hoffman stated we are cancelling our regular supervisors meeting on the 22<sup>nd</sup> and having it on the 21<sup>st</sup> but Kuechenberg will be gone to some continuing education those days, so he proposes we cancel the drainage meeting for that week. Hoffman asked if that works for Gallentine. Gallentine stated he did not have an issue with that.

Granzow asked what we did for June 8<sup>th</sup>. Hoffman stated he did not think we were meeting. Kuechenberg stated we were not meeting for the regular drainage meeting, but we do have a Public Hearing that day for DD 14 at 10:00 a.m. Kuechenberg stated she planned on brining that up under other business. Hoffman stated he would not be there on the 8<sup>th</sup>. Granzow stated he would not be at the meeting, but he would call in. McClellan stated she would be there.

Motion by McClellan to cancel the meeting on June 22, 2022. Second by Granzow. All ayes. Motion carried.

## 5. DD 56 WO 3 - Discuss W Possible Action - Gehrke Inc. Pay Estimate # 3

Granzow asked Gallentine if he had any problems with this pay estimate. Gallentine stated this is just a typical monthly pay estimate from Gehrke, things were going well out there. Gallentine stated he did discuss with him whether he was going to need an extension on the project, Gehrke did not think so, but it would be close.

Motion by Granzow to approve pay estimate # 3. Second by McClellan. All ayes. Motion carried.

## 6. Discuss W Possible Action - New Work Order Requests

Kuechenberg stated she has a potential work order in DD 121. Kuechenberg stated Bob Muff reported a suck hole 20 feet from the end of the county tile where it dumps on his property in the open ditch. Kuechenberg stated the only issue she had with this, and maybe the problem is further up the line she has not received any other calls, but if you pull the original district map the district tile ends on the property north of Bob's property where he reported the issue. Kuechenberg stated Beacon shows the district tile continues on his property and either further down which Kuechenberg stated should probably be adjusted. Hoffman asked Kuechenberg if she would suggest that CGA goes out to verify location and we go from there. Kuechenberg and Granzow stated that would probably be the best option. Kuechenberg stated the landowner believes this is district tile, it's a 22-inch tile so pretty big. Gallentine stated CGA can take a look at it and let them know.

Motion by Granzow to have CGA verify the location of work order 332 and report back. Second by McClellan. All ayes. Motion carried.

#### 7. Other Business

Gallentine stated he spoke with Craig Duncan on DD 36 before the meeting this morning and offered up the possibility of crop damages. Gallentine stated that did not bother him so much as he did not want a bunch of holes out in his field in the middle of the year. Gallentine stated he cannot guarantee that, he does not know where this was going to go. Gallentine stated Craig wanted to wait until after fall. Gallentine asked how we would know when to contact him he thought they had a system set up last fall. Gallentine reminded Craig that he was supposed to call him last year when the crops were out, and he did not hear from him. Gallentine stated Craig told him he did call and Gallentine was out of the office, Craig stated he just did not call back. Gallentine stated Craig wanted Gallentine to call him the end of October. Gallentine stated Craig was also concerned where the county road is that there is differential drainage on one side vs the other and he would like that looked at ahead of time. Gallentine stated they could, but most tilers want the outlet free before they go out there that way they're not fighting water. Hoffman stated we should try and one stop shop it in the fall.

Kuechenberg stated she has a potential work order for Hardin Story DD 4-112, Kuechenberg added she will get that on the next agenda it was submitted late yesterday afternoon. Kuechenberg stated Hardin is the controlling county on this one.

Granzow stated so we only have a drainage Public Hearing next week, correct? Kuechenberg stated that was correct. Kuechenberg stated that is to go over the results from the televising and then they were going to make a decision on the Engineer's Report what they wanted to do after they saw the results from televising. Hoffman asked how Kuechenberg notified the landowners if she sent out a post card recently. Granzow stated the meeting was recessed. Gallentine stated Runge requested a copy of that video, and it was sent to him a couple of weeks ago.

#### 8. Adjourn Meeting

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



# Hardin County

## Drainage Claims with Pay Date of 6/17/2022

DD 9WO257 Investigation and Repair of Blowout	Clapsaddle-Garber Assoc	3,334.75
DD 11WO331 Investigation Plugged Main Tile/Intake	Clapsaddle-Garber Assoc	641.30
DD 14 Communication and viewing of CCTV	Clapsaddle-Garber Assoc	1,724.10
DD 48 Work on Reclassification of Main Open Ditch	Clapsaddle-Garber Assoc	1,953.00
DD52 Review file contents-Iowa Code-Prior Opinion	Dentons Davis Brown PC	1,202.50
DD 56WO3 Construction Observation	Clapsaddle-Garber Assoc	10,846.95
DD 121WO295- Original Exploration	Honey Creek Land Improvement, LLC	19,970.00

**Total Regular Payables:** 0.00  
**Total Stamped Warrants:** 39,672.60

## Drainage District:

#121

## Investigation/Repair Summary:

- Landowner in SE¼ NE¼ of Section 32, Township 86 North, Randy 20 West reported a sinkhole just upstream of main tile outlet.
- Visual observation found concrete headwall with 24"-diameter CMP and 12"-diameter CMP outletting through it. The headwall has some spalling occurring, but appears to be structurally intact. Both CMPs are rusty and it is assumed that the 24" is the main tile and the 12" is private tile. Neither CMP have rodent guards.
- Just upstream of the headwall is a 3'-diameter sinkhole/blowout on the assumed main tile route, but the sinkhole/blowout could possibly be caused by the private tile also.

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

None as only visual observation was performed.

## Additional Actions Recommended:

The main tile needs excavated at the sinkhole/blowout to determine the cause of the same and an appropriate repair made. In addition, the CMP portion of the main tile needs replaced and a rodent guard installed. Based on the proximity, these may be accomplished with one excavation and repair. Unless something additional is discovered after excavation, the construction cost of this repair is small enough that neither a hearing nor engineer's report would be required and the lottery system could be used.







# Drainage Work Order Request For Repair

## Hardin County

Date: 5/31/2022

Work Order #: WO00000332

Drainage District: DDs\DD 121 (51136)

Sec-Twp-Rge: 32-86-20 Qtr Sec: \_\_\_\_\_

Location/GIS: 86-20-32-200-004

Requested By: Bob Muff

Contact Phone: (515) 681-3525

Contact Email: \_\_\_\_\_

Landowner (if different): \_\_\_\_\_

Description: DD 121 Bob Muff reports a suckhole 20 feet from end of county tile where it dumps on his property in the open ditch.

parcel # 862032200004.

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

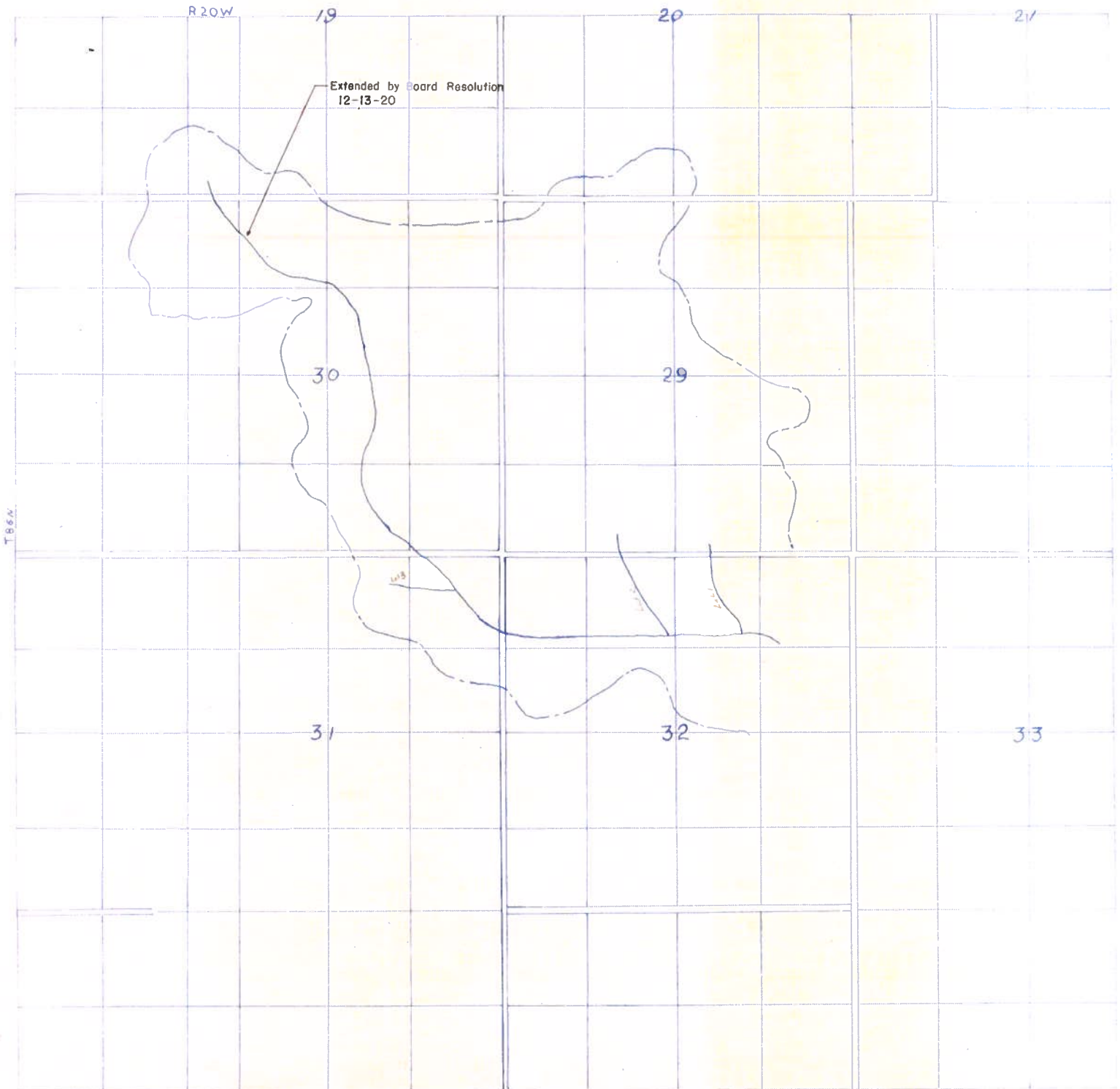
For Office Use Only

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

D.D. # 121

TRACED BY REIGLES ENGR CO

DRAINAGE DISTRICT NO 121  
HARDIN COUNTY, IOWA  
CONTAINING 1324 ACRES  
SCALE 1" = 1000'





862032200002

862032200004

L37 1

862032200001

862032200003

L37 2

862032100002

D.D. No. 121

862032100003

862032100005

RAIN

862032100001

862032100004

# Inspector's Project Diary

Project: OD 121 HARDIN Co.			
CGA PN: 6934.20	Days Charged:	Report No. 1	Proj. Mgr. <input checked="" type="checkbox"/>
Contractor:		Date:	LEE CALVERTINE
Superintendent:	Weather Conditions: CLEAR, WINDY, DAY	Precip.: 0"	Temp. Hi: 75° Temp. Low: 50°
INSPECTOR: RANDY B. Time Arrived: 12:00 NOON      Time Left:		Contractor: Time Arrived:                      Time Left:	
<p>1. General Remarks and Work Accomplished:</p> <p>ARRIVED @ FIELD DRIVE ON Co. Hwy, CALLED BOB MUFF, 515, 681,3528 HE GAVE ME PERMISSION TO DRIVE ALONG CREEK TO GET TO BLOW-OUT. BY OUTLET WIER. HE SAID IT JUST SHOWED UP AND DIDN'T WANT TO HIT IT WITH HIS TRACTOR SOME DAY SINCE ITS NEAR HIS FIELD ACCESS DR. FOUND 3'x HOLE 1' DEEP @ ABOUT WHERE CMP FOR OUTLET WOULD BE CONC. WIER IS OLDER, BUT IN GOOD WORKING CONDITION. CMP IS RUSTY AND NEEDS REPLACED. SOME CONC. DEGRADATION @ WALL BASE @ FLOOR, LOOKS LIKE CMP NEEDS REPLACED WITH SOME CONC. COLLAR ON BACK SIDE OF WIER TO HELP WITH WALL, SOME TILE WILL ALSO NEED TO BE LOOKED @ WHEN REPLACING TILE, HOPEFULLY TILE IS IN GOOD SHAPE.</p>			
<p>2. Changes or Extra Work Ordered:</p> <p>FURTHER ACTION: REPLACE CMP (24" MEASURED) WITH 1 1/2 YD. CONC COLLAR @ WIER, HOOK UP TO TILE WITH CONC. COLLAR IF TILE IS GOOD. TILE IS <del>UNDER</del> UNDER FARM FIELD DRIVE WITH 2' COVER. MIGHT WARRANT</p>			
<p>3. Test Samples Taken: 40' OF CMP.</p> <p>SMALLER CMP TILE TO WEST OF MAIN WASN'T FLOWING, MAY BE DISCONNECTED</p> <p>THERE IS A POSSIBILITY THAT THE 12" SPIRREL CMP IS CAUSING THE SUCK HOLE.</p>			
<p>4. Visitors to Site: 12" CMP IS VERY RUSTY</p>			
<p>5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:</p>			
<p>6. Attachments (total sheets attached 0):</p>			

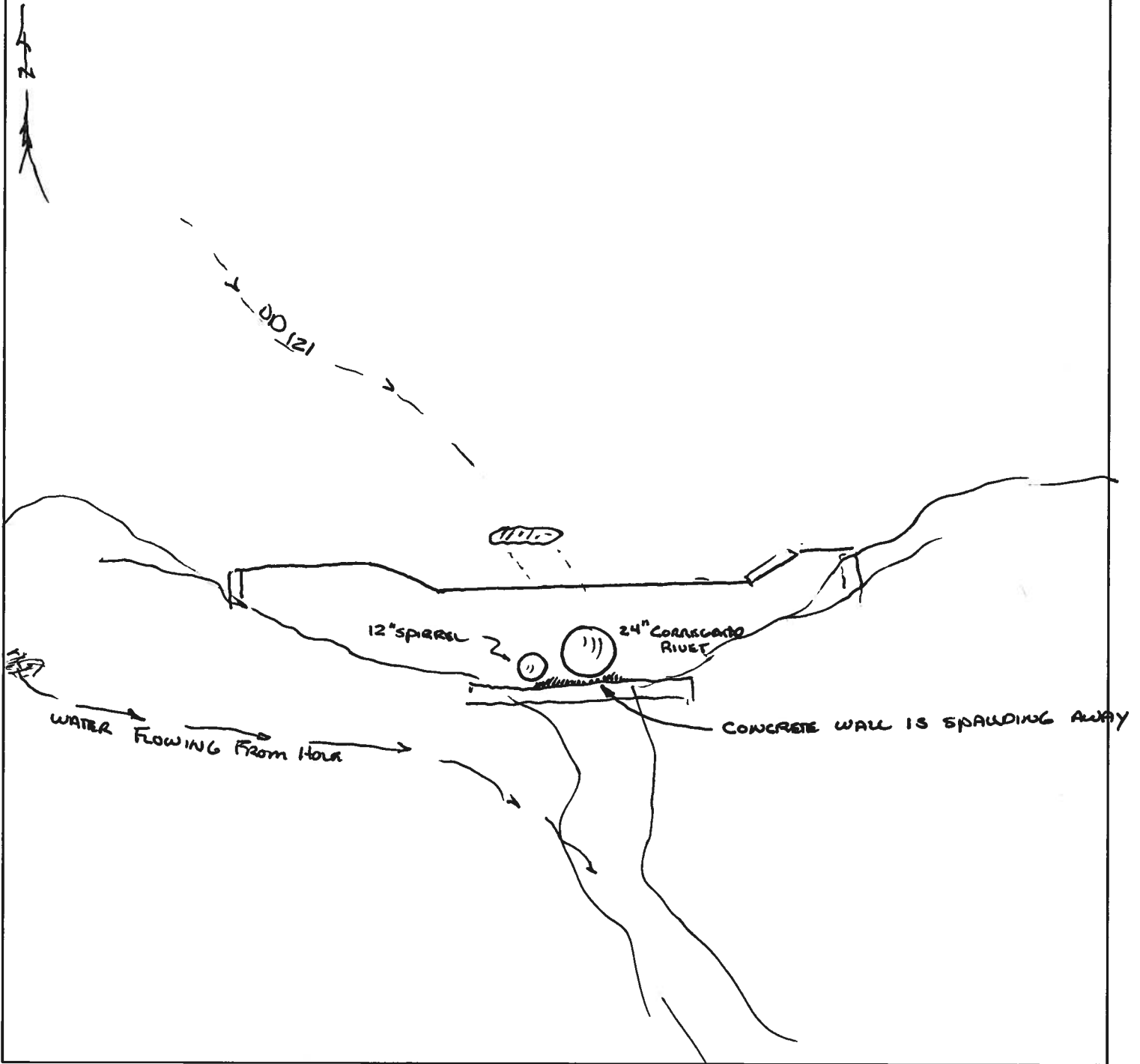
# Inspector's Project Diary (continued)

CGA PN: 6934.20

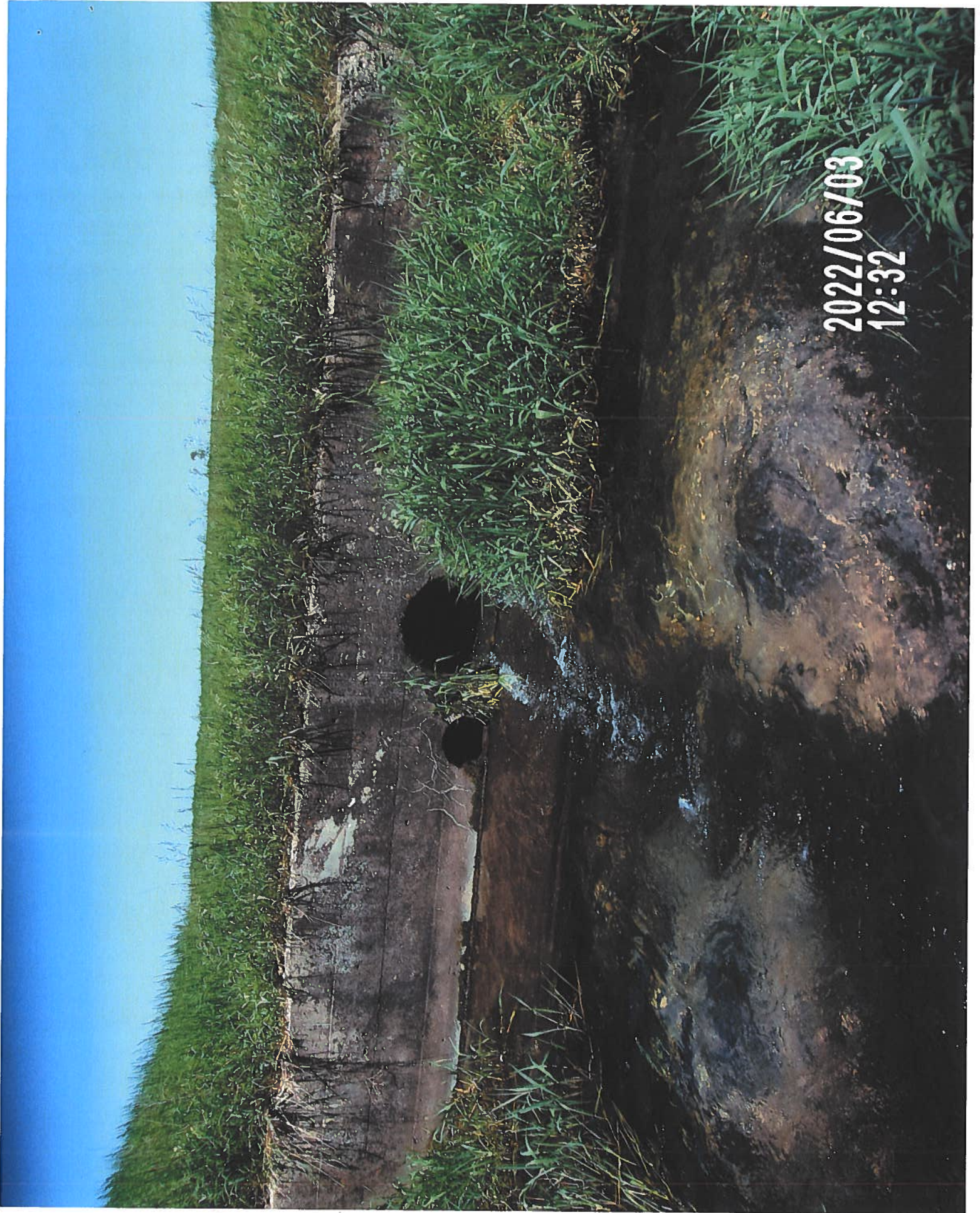
Report  
No. 1

Date:

1. General Remarks and Work Accomplished (Continued):



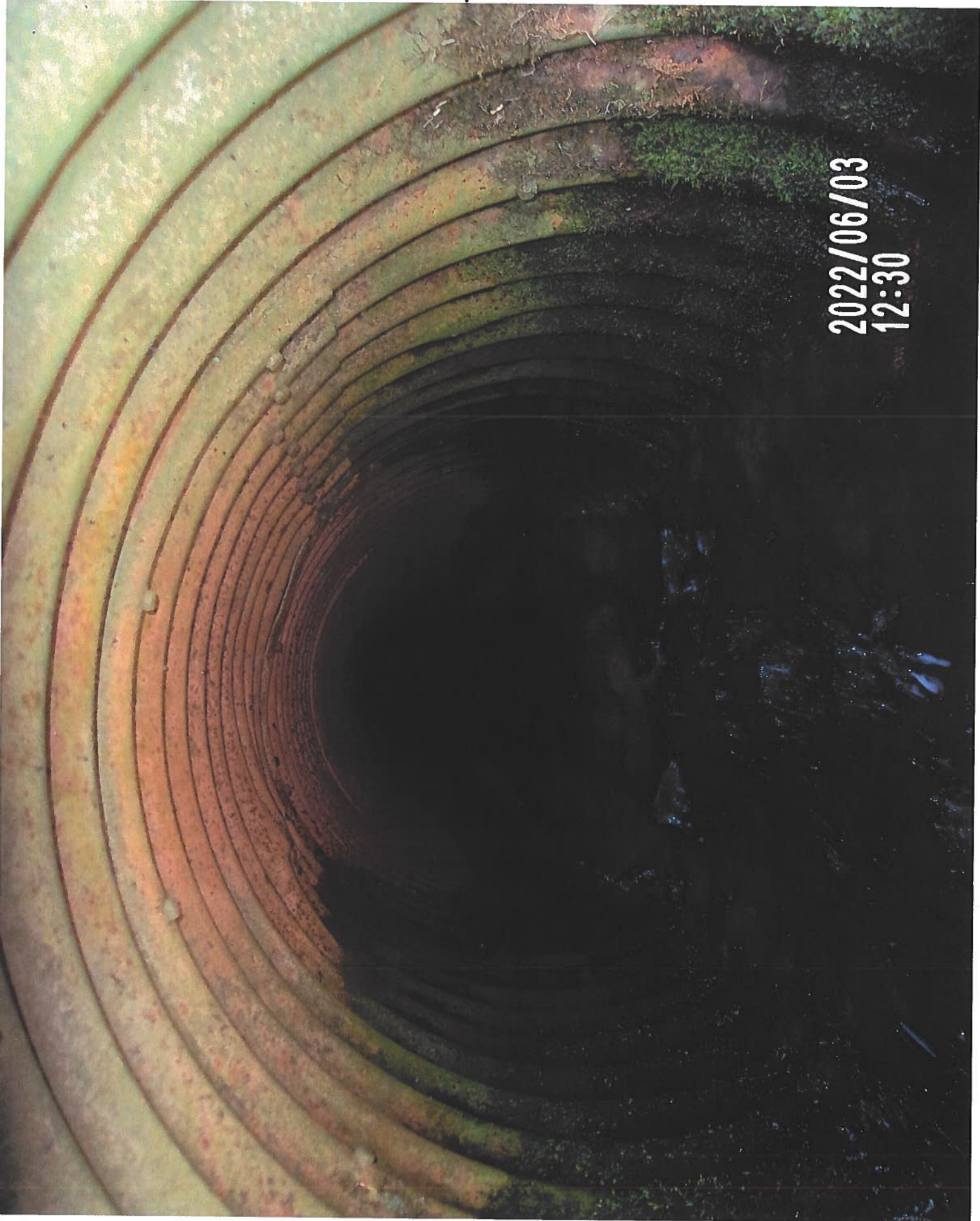
Looking North @ Outlet



2022/06/03  
12:32

24" RUSTED CMP

2022/06/03  
12:30



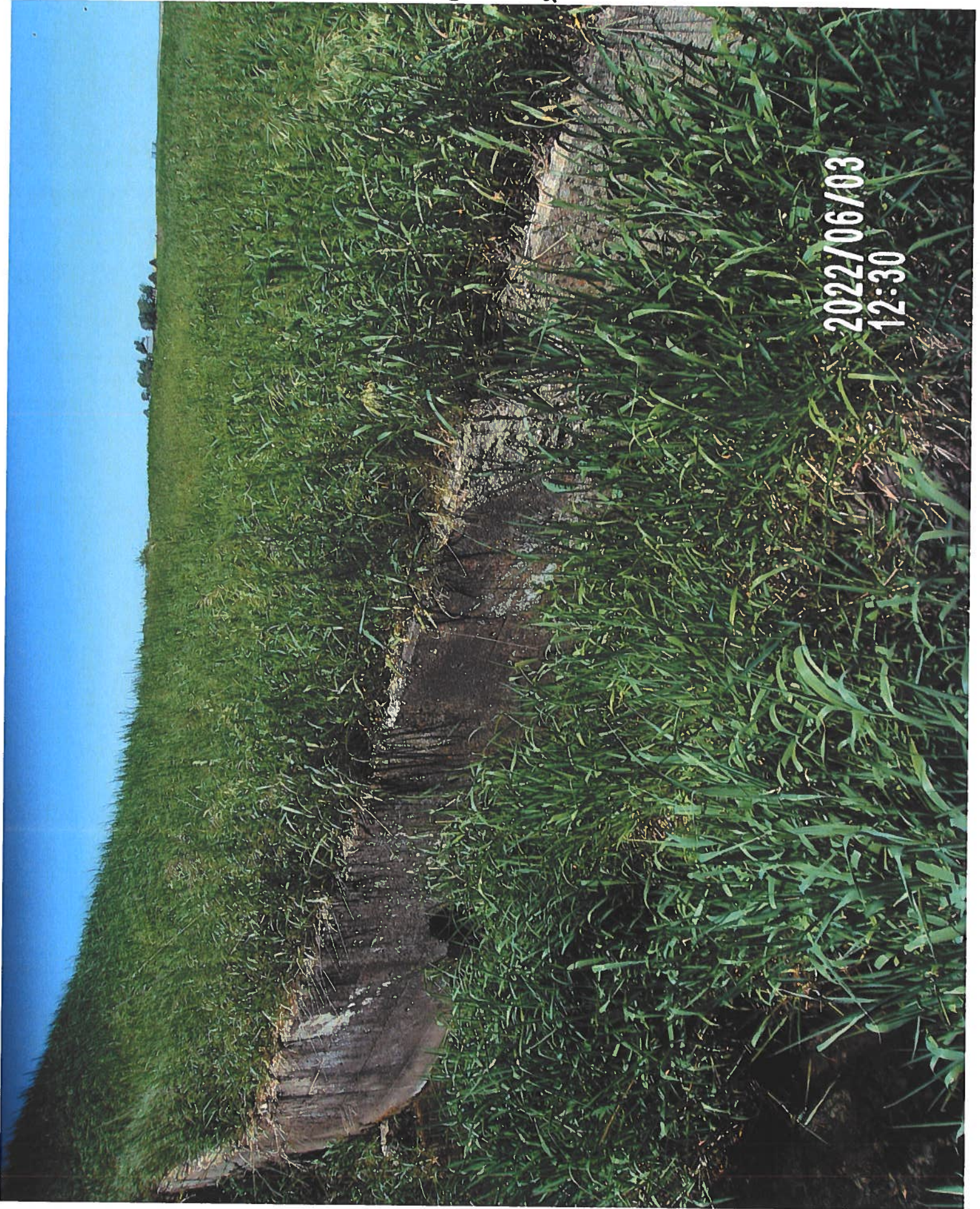
24" CMP OUTLET AND 12" SPIREW OUTLET PRIVATE





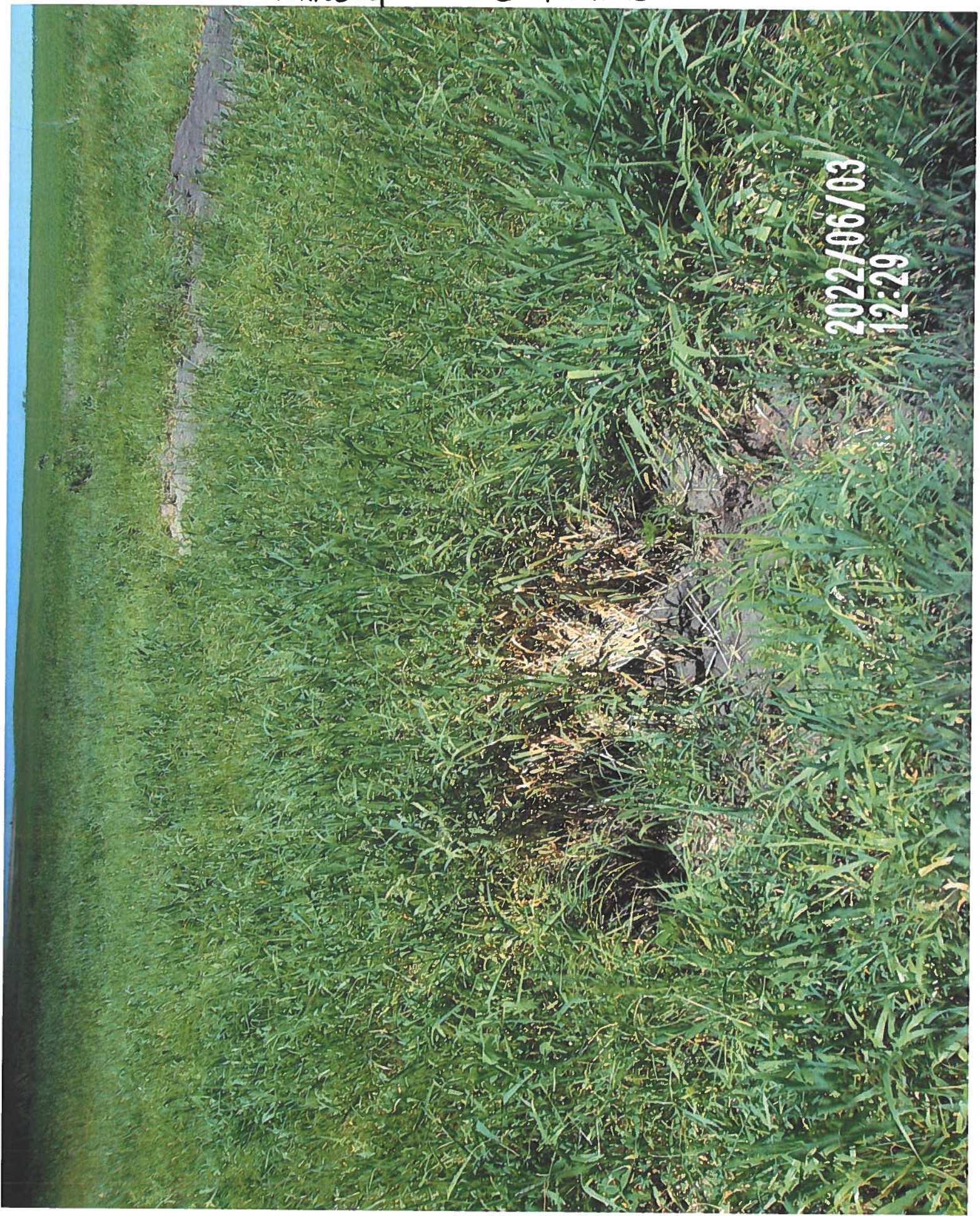
CONC. WEIR @ OUTLET

2022/06/03  
12:30



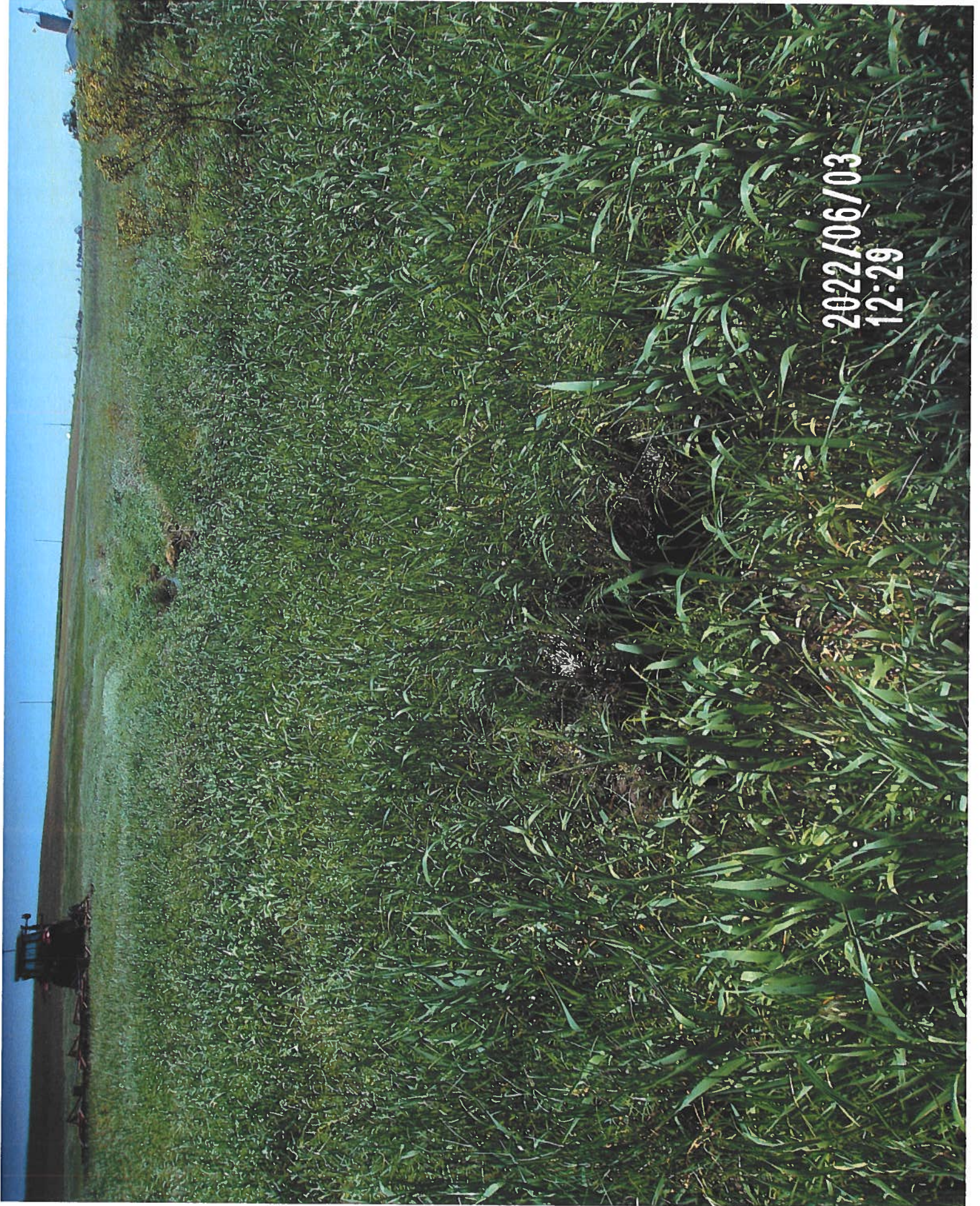
LOOKING UPSTREAM @ SINK HOLE

2022/06/03  
12:29



LOOKING DOWNSTREAM @ SNK HOLE

2022/06/03  
12:29





# Drainage Work Order Request For Repair

## Hardin County

**Date:** 6/14/2022

**Work Order #:** WO00000333

**Drainage District:** DDs\DD H-S 4-112 (51237)

**Sec-Twp-Rge:** 35-86-21      **Qtr Sec:** \_\_\_\_\_

**Location/GIS:** 86-21-35-400-005

**Requested By:** Rick Reed

**Contact Phone:** (641) 487-7869

**Contact Email:** \_\_\_\_\_

**Landowner (if different):** Catherine & Lorene Mein

**Description:**

DD 4-112 Tenant Rick Reed reports multiple tile blowouts and a sinkhole near the ditch on LL Ave. parcel 862135400005 or the NW corner of parcel 862135400006.

Tenant asked that it get fixed right away if it will not disturb the crops.

**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:** \_\_\_\_\_

