

**AGENDA  
DRAINAGE DISTRICT 3 MEETING  
TUESDAY, JUNE 1, 2021 9:00 AM**

**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:

[DD 3 MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[DD 3 GEHRKE INVOICE 19757.PDF](#)

[DD 3 CGA INVOICE 43321.PDF](#)

5. DD 3 - Discuss W Possible Action - Engineer's Report On Repairs And Improvements To Main Tile Of DD 3

Documents:

[DD 3 ENGINEERS REPORT ON REPAIRS AND IMPROVEMENTS TO MAIN TILE 05\\_17\\_21.PDF](#)

6. DD 3 - Discuss W Possible Action - Schedule A Date Public Hearing On Engineer's Report
7. Other Business
8. Adjourn Meeting

**DRAINAGE DISTRICT # 3  
MINUTES**

**January 23, 2012**

The 2012 Drainage Elections were held January 21, 2012. On January 23, 2012 at 10:30 A.M., Vice Chairman Lance Granzow opened the canvass of the 2012 Drainage Elections. Also present were supervisor Jim Johnson and Drainage Clerk Jane Geerdes.

Following are the results of the districts that have landowner trustees that have submitted their documents:

<u>District</u>	<u>Elected Trustee</u>	<u>Number of Votes</u>
3	Gary Rabe	2
16	Harold Muller	2
45	David Fisher	2
55 Division 1	Richard Winter	1
55 Division 2	Jeff Roberts	2
110	Gordon Dreier	3

Jim moved, Lance seconded to adjourn

**January 19, 2013**

Polls opened at 1:00 P.M., with Prochaska, Rabe, Keith Helvig and Kay Helvig present.

Minutes read and approved.

Kay Helvig re-appointed clerk.

Voted to pay 2012 wages:

Rabe	election & 1 hour	\$50.00
Prochaska	election & 2 hours	\$60.00
Keith Helvig	election & 2 hours	\$60.00
Kay Helvig	election & 2 hours	\$60.00

Voted to pay Times Citizen \$14.80 for election add.

Voted to pay Scott Peden for trapping 3 beavers – 2 at B Miller’s and 1 at A Oelmann’s - \$40.00 each.

Prochaska re-elected – 3 votes cast.

Helvig re-elected chairman.

Polls close.

Meeting adjourned.

/s/ Kay Helvig

Kay Helvig – clerk

**January 20, 2014**

Hardin County Board of Supervisors Chairman Lance Granzow opened the meeting. Also present were supervisors Ronn Rickels and Brian Lauterbach; also Lee Gallentine and Jane Geerdes.

Granzow opened the Canvass of the 2014 Drainage Trustee Election for landowner trustees, which was held January 18, 2014. Drainage trustees are elected for a 3 year term. No clerical errors were found and the official results are as follows:

DD 3	Keith Helvig	3 votes
DD 4	Mervin Vierkandt	3 votes
DD 16	Leon French	2 votes
DD 18	Robert Schager	2 votes
DD 39	Leowen Ulrich	4 votes
DD 45	John Kix	4 votes
DD 55 Div 1	Tyler Strathe	1 vote
DD 55 Div 2	Jason Martin	1 vote
DD 76	Tom Danger	2 votes
DD 110	Leonard Penning	3 votes

Rickels moved, Lauterbach seconded verifying that the above are the official results of the 2014 Drainage Trustee Election. All ayes. Motion carried.

**MINUTES  
DD 3 PUBLIC HEARING  
DECEMBER 8, 2014 @ 9:30 A.M.**

Drainage District Trustee Chairman Keith Helvig opened the hearing. Also present were Trustees Gary Rabe and Dennis Prochaska; Interested persons Craig and Kay Froning, Doug Musson, Duane Snyder, Jake Valentine, Allen Johnson, Peter Bartlett, Jane Knutson and Dakota Hoben; Drainage District Attorney David Johnson; Lee Gallentine with Ryken Engineering; District Secretary Kay Helvig; Drainage Clerk Tina Schlemme.

Prochaska moved, Rabe seconded to approve the agenda as presented. All ayes. Motion carried.

Introductions were made and attendance taken.

The meeting was turned over to Gallentine, who explained the history of the district and the scope of the project. The open ditch has significant siltation ranging from 6 inches to 3 ½ feet. It is not known if any tile outlets are currently covered by silt. There are several tile outlets that are within 1 foot of current silt level and are in danger of being silted over. The southern portion of the ditch has an uneven bottom. Gallentine presented the engineers report which suggests a clean-out of most of the ditch restoring it back to the 1913 grade, smoothing the lower stretches by creating a new 2014 grade and removing all trees, brush, rock dams and low water crossings. The upper stretches would be considered a repair, but the work in the lower stretches would be an improvement.

Gallentine recommended that the trustees accept the engineer's report and move forward with the project. The estimated amount for the project is \$596,180 for the repair and \$108,940 for the improvement. Gallentine stated that this cost could be significantly less if the project moved forward with a winter bid letting.

Johnson listed any objections and letters of concern that were received. Landowner Peter Bartlett discussed his concerns with his benefit percentage in comparison to the entire district as a whole. It was discussed that there could be a re-classification of the district with an appraiser board which would address those concerns.

Rabe moved, Prochaska seconded to close the hearing. All ayes. Motion carried.

Rabe moved, Prochaska seconded to approve the Engineer's Report on Vegetative Growth and Siltation in Main Open Ditch, Drainage District 3 Hardin County Iowa dated August 18, 2014. All ayes. Motion carried.

Prochaska moved, Rabe seconded to adjourn the meeting.

**December 15, 2014**

Drainage District Trustee Chairman Keith Helvig opened the meeting. Also present were Trustee Gary Rabe; Lee Gallentine with Ryken Engineering; District Secretary Kay Helvig; Drainage Clerk, Tina Schlemme; District Attorney Dave Johnson via teleconference.

Helvig moved, Rabe seconded to approve the agenda as presented. All ayes. Motion carried.

Rabe moved, Helvig seconded to approve and adopt the Resolution dated December 15, 2014 for Reclassification of Drainage District 3. This Resolution appoints benefit commissioners as Lee Gallentine,

Chuck Walters and Dennis Friest. Gallentine to contact the above mentioned freeholders for availability and Schlemme will assure necessary oaths are signed. All ayes. Motion carried.

Rabe moved, Helvig seconded to set the next meeting date as January 12, 2015. All ayes. Motion carried.

The reclassification and bid letting processes were discussed. The following tentative dates were scheduled:

1/12/2015 @ 11:00 am	Approve Specs Schedule Bid Letting Date (Notice Ready)
2/16/2015 @ 11:00 am	Bid Letting
3/02/2015 @ 11:00 am	Approve Commissioners Classification Report Set Classification Hearing
4/06 or 4/13/2015 @ 11:00 am	Classification Hearing

Rabe moved, Helvig seconded to adjourn. All ayes. Motion carried.

**MINUTES  
REGULAR DRAINAGE MEETING  
DD 3  
JANUARY 12, 2015**

Drainage District Trustee Chairman, Keith Helvig, opened the meeting. Also present were Drainage District Trustees, Gary Rabe and Dennis Prochaska; Lee Gallentine with Ryken Engineering; Drainage District Attorney, Dave Johnson via telephone; Drainage District Secretary, Kay Helvig; Drainage Clerk, Tina Schlemme.

Prochaska moved, Rabe seconded to approve the agenda as presented. All ayes. Motion carried.

Rabe moved, Prochaska seconded to acknowledge receipt of the Specifications For Improvements and Repairs To Open Main Ditch Drainage District 3 (Project No. 6490) dated January 9, 2015 and to approve the report format. All ayes. Motion carried.

Prochaska moved, Rabe seconded to set the bid letting date for Tuesday, February 17, 2015 at 11:00 a.m. in the large conference room in the lower level of the courthouse. All ayes. Motion carried.

Rabe moved, Prochaska seconded to set the commencement date for construction as September 1, 2015 and the completion date as December 1, 2015. All ayes. Motion carried.

Rabe moved, Prochaska seconded to adjourn. All ayes. Motion carried.

**MINUTES  
DD 3 BID LETTING  
FEBRUARY 17, 2015 AT 11:00 A.M.**

Drainage Trustee chairman Gary Rabe opened the meeting. Also present were trustees Keith Helvig and Denny Prochaska; Jeremy Rognes with Rognes Brothers Excavating, Inc, Steve Weidemann with Weidemann, Inc and two employees with Ingraham Construction, Inc; Attorney Dave Johnson; Lee Gallentine with Ryken Engineering; Drainage Secretary Kay Helvig; Drainage Clerk Tina Schlemme.

Helvig moved, Prochaska seconded to approve the agenda as presented. All ayes. Motion carried.

Proof of publication of public notice was verified.

Gallentine opened the following bids, in addition to verifying that the bid bonds, as well as the bids, were all in order:

<u>Company</u>	<u>Bid</u>
Ingraham Construction, Inc	\$ 531,041.15
Weidemann, Inc	\$ 579,763.35
Rognes Brothers Excavating, Inc	\$ 703,954.25

Johnson verified the bid bond was accurate and in order for the lowest bidder, Ingraham Construction, Inc.

Helvig moved, Prochaska seconded to award the bid to the lowest bidder, Ingraham Construction, Inc, contingent upon the math being correct. All ayes. Motion carried.

Prochaska moved, Rabe seconded to adjourn.

**August 5, 2015**

McClellan moved, Rickels seconded to approve claims for payment with pay date of Friday, August 7, 2015. All ayes. Motion carried.

DD 3	Ryken Engineering Co	\$15,722.50
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**MINUTES  
DRAINAGE DISTRICT #3 MEETING  
JANUARY 25, 2016**

Drainage District Trustee Chairman, Gary Rabe, opened the meeting. Also present were Drainage District Trustees, Dennis Prochaska and Keith Helvig; Drainage Clerk, Tina Schlemme.

Prochaska moved, Rabe seconded to approve the agenda as presented. All ayes. Motion carried.

Helvig moved, Rabe seconded to acknowledge receipt of the Reclassification Commission Report dated January 7, 2016. All ayes. Motion carried.

Rabe moved, Prochaska seconded to set the reclassification hearing for Monday, March 14, 2016 at 10 a.m. in the large conference room in the lower level of the Hardin County Courthouse. All ayes. Motion carried.

Prochaska moved, Rabe seconded to adjourn the meeting. All ayes. Motion carried.

**MINUTES  
PUBLIC HEARING ON RECLASSIFICATION COMMISSION**

**REPORT FOR HARDIN COUNTY DRAINAGE DISTRICT 3**  
**MARCH 14, 2016 – 10:00 A.M.**

Drainage District Trustee Chairman, Gary Rabe, opened the hearing. Also present were Drainage District Trustees, Keith Helvig and Dennis Prochaska; Landowners, Jake Valentine, Kay Helvig, Joyce Pearce, George Ioerger, Westhenry Ioerger; Tim Broer; Mitch Baum; Jeff Heinzeroth, Joe Rabe, Doug Musson, Cindy Litwiller, Jane Knutson and Pete Bartlett; Drainage Attorney, David Johnson; Lee Gallentine with Ryken Engineering; Drainage Clerk, Tina Schlemme.

Prochaska moved, Helvig seconded to approve the agenda as presented. All ayes. Motion carried.

Rabe opened the public hearing. Attendance and publication of the Notice of Hearing were verified.

The hearing was turned over to Gallentine, who explained the reclassification as stated in the Reclassification Commission Report filed in the Auditor's Office on January 7, 2016. The District Trustees appointed a Reclassification Commission to reclassify the lands within the drainage boundaries for Drainage District 3 only, no sub-districts, laterals or districts within. The appointment of the commission resulted from comments received from landowners in the upper end of the watershed.

Gallentine explained the methods used to determine the benefits, as stated in the Reclassification Commission Report, pages 3-5. He further explained page 6 of the report, which states two exceptions to the methods used. Tract numbers 0.5, 1, 58.1, 130, 178, 233 and 417.2 were highly irregular in shape or did not have accurate soil maps available, so an alternative method was used. Also, tracts 2, 2.1, 3, 4, 5, 82, 84, 85, 147 and 377 were reduced by 75% due to documents provided that showed the subsurface tile drainage did not flow to district facilities but discharged out of the district boundary. The land was also viewed and the majority of the ground surface sloped away from the district facilities. This drainage appeared to flow out of the district.

Johnson read the written objections submitted from Russell Smith, Becky Statler, Scott and Deb Hoover, George and Westhenry Ioerger, Jon Bartlett, and Judy Hudson. Five of the six objections pertained to their land draining into DD 130 and not into DD 3. Maps were viewed that showed the overlap of the two districts and the tile located in that area which drain into DD 130.

Two of those five objections noted above also contained objections pertaining to the north portion of the district in Section 22 north of 140<sup>th</sup> Street. George Ioerger had previously presented documents to Gallentine which showed tile installed almost 20 years ago that drains this area north to the river. Ioerger stated that before he installed this drainage system to the river, he attempted to drain into DD 3, but the district tile lay at a higher elevation and his ground could not drain into district facilities, even after trying a lift station. Ioerger felt he does not and cannot receive benefit of drainage from DD 3.

Johnson stated the Code of Iowa does indicate that if any assessment is increased from the initial reclassification, that those owners shall be notified and another hearing set. If the Trustees choose to reduce any land in the district, than all other parcels will then increase and another hearing will result, which could be expensive. He also stated that landowner private tiling should not be considered when computing benefit of the district. Whether the landowner takes advantage of tiling to the district facilities or not, does not weigh in their benefit amount. Their assigned benefit is the potential of drainage they are capable of, not necessarily what drainage they take advantage of.

Prochaska moved, Rabe seconded to close the public hearing. All ayes. Motion carried.

Prochaska moved, Rabe seconded to change track numbers 2, 2.1, 3, 4, 5, 82, 84, 85, 147 and 377, as listed in the Reclassification Commission Report page 6 paragraph #4.2, to allow for a 50% reduction versus the commission's recommended 75% reduction. All ayes. Motion carried.

Prochaska moved, Helvig seconded to refer the classification back to the commission to further study and determine which properties are located in and receive benefit from DD 130, and to reduce their percentage of benefit accordingly, even down to 0% if necessary. Prochaska, Helvig – aye. Rabe abstained.

Rabe moved, Prochaska seconded to adjourn the meeting. All ayes. Motion carried.

**MINUTES  
PUBLIC HEARING ON REVISED RECLASSIFICATION COMMISSION  
REPORT FOR HARDIN COUNTY DRAINAGE DISTRICT 3  
AUGUST 15, 2016 – 10:00 A.M.**

Drainage District Trustee Chairman, Gary Rabe, opened the hearing. Also present were Drainage District Trustees, Keith Helvig and Dennis Prochaska; Landowners, Judy Hudson, Larry Dougan, Scott & Diane Hamilton, George Ioerger, Westhenry Ioerger, Kay Helvig, Jake Valentine, Jeff Heinzeroth, Byron Steiber, Rick Kriz, Attorney Art Cady; Drainage Attorney, David Johnson; Lee Gallentine with Ryken Engineering; Auditor's Deputy, Kelly Collins.

Prochaska moved, Helvig seconded to amend the agenda to add review of minutes of the March 14, 2016 Public Hearing on Reclassification Commission Report. All ayes. Motion carried.

Helvig moved, Prochaska seconded to adopt the minutes of the March 14, 2016 Public Hearing. All ayes. Motion carried.

Rabe opened the public hearing.

The hearing was turned over to Gallentine, who explained the differences between the original reclassification report and the revised reclassification report.

Rabe stated, as read by Attorney Johnson, the objection received by George and Westhenry Ioerger. It was discussed that Judy Hudson had filed an objection in March and what her benefit would be. Johnson addressed her total assessment and dollars involved.

The difference between private and district tile was explained and what benefits would be.

The objection filed by Ioerger was reviewed again. The objection also opposed Prochaska's participation in the hearing because of personal legal circumstances. Prochaska offered to abstain from voting.

Rabe closed the hearing.

Helvig moved, Rabe seconded to approve the revised reclassification. Ayes: Helvig, Rabe. Abstain: Prochaska. Motion carried.

Helvig moved, Prochaska seconded to adjourn the meeting. All ayes. Motion carried.

**MINUTES  
PUBLIC HEARING ON COMPLETION OF CONTRACT  
DRAINAGE DISTRICT 3 OPEN DITCH, HARDIN COUNTY**

**THURSDAY, MARCH 23, 2017 AT 9:00 A.M.**  
**LOWER LEVEL CONFERENCE ROOM – HARDIN COUNTY COURTHOUSE**

Drainage District Trustee Chairman, Gary Rabe, opened the meeting. Also present were Trustees, Keith Helvig and Dennis Prochaska; Landowners, Kay Helvig and Kevin Vierkandt; Board of Supervisor, BJ Hoffman; Drainage Attorney, David Johnson, via teleconference; Lee Gallentine with Ryken Engineering; Drainage Clerk, Tina Schlemme.

Prochaska moved, Helvig seconded to approve the agenda as presented. All ayes. Motion carried.

Rabe opened the public hearing and Schlemme verified proof of publication.

It was discussed that Audrey Thelke had reported piles of dirt in her property. Gallentine stated that they went out to look and couldn't find any piles except for the buffer strips. It was also discussed that Vierkandt had concerns with the seeding on his property. After much discussion, it was determined that at least one side of the ditch did not have grass seeding that took. Vierkandt clarified that the seeding concerns he had were outside of the ditch where he is responsible for seeding.

Schlemme stated there had been no claims for damages.

Prochaska moved, Helvig seconded to close the public hearing. All ayes. Motion carried.

Prochaska moved, Helvig seconded to table any decisions regarding the completion of the project and the final pay estimate until Monday, April 24, 2017 at 9:00 a.m. to see if the contractor makes an effort to reseed. All ayes. Motion carried.

Prochaska moved, Helvig seconded to adjourn the meeting.

**MINUTES**  
**CONTINUATION OF PUBLIC HEARING ON COMPLETION OF CONTRACT**  
**DRAINAGE DISTRICT 3 OPEN DITCH, HARDIN COUNTY**

**MONDAY, APRIL 24, 2017 AT 9:00 A.M.**  
**LOWER LEVEL CONFERENCE ROOM – HARDIN COUNTY COURTHOUSE**

Drainage District Trustee Chairman, Gary Rabe, opened the meeting. Also present were Trustees, Keith Helvig and Dennis Prochaska; Landowner, Kay Helvig; Drainage Clerk, Tina Schlemme.

Prochaska moved, Helvig seconded to approve the agenda as presented. All ayes. Motion carried.

Rabe opened the public hearing.

It was discussed that the contractor has been out and reseeded. The one year warranty should be effective from the approval of the completion so should help cover any problems.

Schlemme stated there had been no claims for damages.

Prochaska moved, Helvig seconded to close the public hearing. All ayes. Motion carried.

Prochaska moved, Helvig seconded to approve the completion of the project. All ayes. Motion carried.

Prochaska moved, Helvig seconded to approve the final pay estimate to Ingraham Construction in the amount of \$56,696.68. All ayes. Motion carried.



**Other Business:**

The bridge to be installed by landowner, Kevin Vierkandt, was discussed. Vierkandt will be funding the bridge work.

Prochaska moved, Helvig seconded to approve the 2017 Drainage Assessments. All ayes. Motion carried.

<b>District</b>	<b>Fund#</b>	<b>Amount Negative</b>	<b>Amount Approved to be Assessed</b>
DD 3	51003	\$ 764,688.08	\$ 769,687.79
DD 3 Div 2	51005	\$ 64.13	\$ 616.21
DD 3 Div 3	51006	\$ 139.22	\$ 644.05
DD 67 (Sub of 3)	51097	\$ 1,405.71	\$
DD 101 Sub of 3	51123	\$ 296.80	\$ 805.28
DD 103 Sub of 3	51125	\$ 240.75	\$ 750.29
DD 138 Sub of 3	51152	\$ 320.39	\$ 826.82
DD 156 Sub of 3	51173	\$ 295.81	\$ 795.82

Prochaska moved, Helvig seconded to approve contacting Drainage Attorney, Dave Johnson, to contact landowner, Donald Rose, regarding the beaver dam outside drainage district boundaries obstructing drainage in DD 3. All ayes. Motion carried.

Prochaska moved, Helvig seconded to adjourn the meeting. All ayes. Motion carried.

**February 14, 2018**

DD 3 - Schlemme asked for guidance regarding a landowner question that was received. Currently DD 3 has several subdistricts, but the Trustees of DD 3 do not own land in some of those subs. The Trustees agreed that Schlemme should ask DD 3's chairman, Gary Rabe, to obtain legal input.

**January 18, 2020**

Election held at Helvig Home – 23385 Co Hwy D 35, Iowa Falls

Polls opened at 9:00 am, Meeting called to order by Chairperson Rabe, Prchaska, Rabe, Keith and Key Helvig present. Kay Helvig appointed Clerk. Rabe re-elected as chairperson. 2019 payroll was approved: Keith Helvig \$200, Dennis Prochaska \$200, Gary Rabe \$300, Kay Helvig \$50. Polls closed at noon 3 votes cats for Keith Helvig.

**May 6, 2020**

DD 32 & DD 3 - WO 2020-10 Discuss W Possible Action - Midland Power Drainage Utility Permit Application

DD 32 & DD 3 - WO 2020-10 Midland Power Coop has submitted a Drainage Utility Permit Application for DD 32 & DD 3, for an overhead line rebuild 1.5 miles along H Ave., Alden Township, Sections 29 & 32.

Granzow asked if Gallentine had any concerns, Gallentine replied he did not, Midland has been very easy to work with on the Drainage Utility Permit.

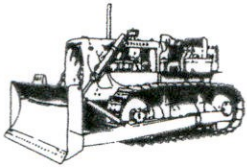
Motion by McClellan to approve the Midland Power Cooperative Drainage Utility Permit 2020-10. Second by Hoffman. All ayes. Motion carried.

**July 29, 2020**

DD 3 - Mike Carpenter requested contact information for the Private Trustees of DD 6, Carpenter has a blowout on the open ditch and is washing out the bank of the open ditch. Smith will provide Private Trustee contact info to Carpenter when he calls in.

**January 16, 2021**

Election held at Rabe Home 1686 KK Ave, Iowa Falls. Polls opened at 9:00 a, closed at 12:00 pm. Meeting called to order by Rabe with Prochaska, Rabe and Helvig resent. Rabe was appointed Chairperson and Clerk. Payroll was approved: Keith Helvig \$170, Kay Helvig \$40, Prochaska \$200, and Rabe \$400. Drainage vouchers were signed. Polls closed with 3 votes cast for Rabe.



**GEHRKE, INC.**  
 P.O. BOX 228  
 ELDORA, IOWA 50627  
 641-858-3821

**INVOICE  
 NO. 19757**

PAGE 1

B  
 I HARDIN CO SUPERVISORS  
 L 1215 EDGINGTON AVE  
 L ELDORA, IA 50627

J 20255  
 O Denny Prochaska-Tile Repair DD#3  
 B

T  
 O

N  
 O

**PLEASE PAY FROM THIS INVOICE**

INVOICE DATE	INVOICE NO.	CUSTOMER NO.	PAYMENT TERMS	CONTRACT NO.
7/15/20	19757	PRO005	NET 10 DAYS	

QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.00 EA	TILE REPAIR	\$ 600.00	\$ 600.00

*Denny Prochaska -300.00*  
*Pa*  
*Balance 300.00*

THANK YOU FOR YOUR BUSINESS!

**FILED**

**FEB 05 2021**

**HARDIN COUNTY AUDITOR**

GROSS	RETAINAGE	TAX	NET AMOUNT
\$ 600.00	\$ -	\$ -	300.00
			<del>600.00</del>



Clapsaddle-Garber Associates  
 PO Box 754  
 Marshalltown, IA 50158-0754  
 641-752-6701

Hardin Co. District Trustees  
 1215 Edgington Ave. Suite # 1  
 Eldora, IA 50627

Invoice number 43321  
 Date 03/31/2021

Project **DD-6490 Drainage District #3 Hardin Co.**

For Professional Services After 11/27/2020 to 03/26/2021

CGA Project No: 6490.4/Hardin Co.

Preliminary drafting of Engineer Report on condition of Main tile on Drainage District #3, Hardin Co.

Professional Fees

	Hours	Rate	Billed Amount
Project Engineer	21.00	106.00	2,226.00
Senior Administration Assistant	0.30	66.00	19.80
Professional Fees subtotal	21.30		2,245.80
Invoice total			<b>2,245.80</b>

**Aging Summary**

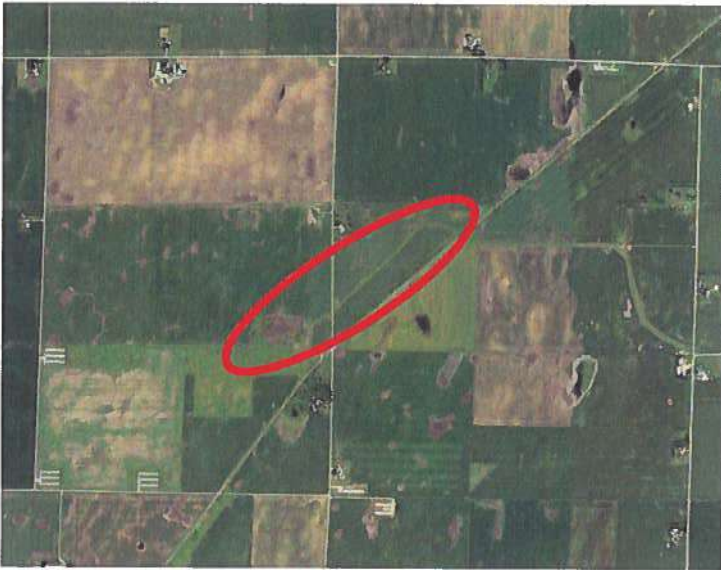
Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
43321	03/31/2021	2,245.80	2,245.80				
	Total	2,245.80	2,245.80	0.00	0.00	0.00	0.00

*All invoices are due upon receipt. A late charge of 1.5% per month will be added to any unpaid balance after 30 days.*

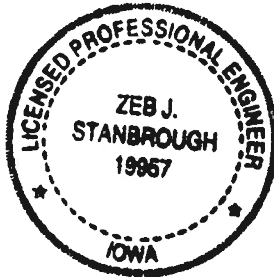
*CGA gladly accepts payment by Visa and/or Mastercard without charge if paid within 10 days of the date of the invoice. A 2.5% convenience fee shall be added to the total invoiced amount if payment is made by credit card after 10 days of the date of the invoice.*

**HARDIN COUNTY, IOWA**

**2021**



**ENGINEER'S REPORT  
ON REPAIRS AND  
IMPROVEMENTS TO  
THE MAIN TILE  
DRAINAGE DISTRICT  
NO. 3  
HARDIN COUNTY,  
IOWA**



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

ZEB J. STANBROUGH, P.E.

DATE

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

5-17-2021



**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

**Engineer's Report on Repairs and Improvements  
to the Main Tile, Drainage District No. 3  
Hardin County, Iowa**

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Opinion of Probable Construction Costs – Improvement	App. D

# **Engineer's Report on Repairs and Improvements To the Main Tile, Drainage District No. 3 Hardin County, Iowa**

## **1.0 INTRODUCTION**

- **SCOPE OF WORK** – The District Trustees, requested Clapsaddle-Garber Associates to investigate and report concerning repairs and improvements to the Main Tile of Drainage District No. 3. This report will detail the feasibility of said repairs and improvements, and present opinions of probable construction costs associated with said repairs and improvements. In November 2020, the District Trustees requested Clapsaddle-Garber Associates to move ahead with an investigation and report concerning repairs and improvements to the Main Tile after deficiencies with had been identified.
  
- **LOCATION** – The area of investigation was limited to a portion of Main tile. Said Main tile is located in Sections 27 and 28, Township 89 North (T89N), Range 21 West (R21W), Hardin County, Iowa. Specifically, the downstream limit of investigation for the Main tile is upstream of the railroad right of way in Section 27 approximately ½ mile west of I Avenue and ½ mile south of the 140<sup>th</sup> Street. Going upstream, the tile then proceeds northwesterly for a short run before turning southwesterly across Section 27. It crosses I Avenue approximately 1 mile south of 140<sup>th</sup> Street. The tile then continues southwesterly across Section 28 for ¼ mile and then turns westerly, with the upstream limits of the investigation being approximately ¼ mile west of I Avenue. For reference, a map showing the limits of investigation is included in Appendix B.

2.0 DISTRICT HISTORY – The following is a brief summary of the pertinent history of Drainage District No. 3 as obtained from the Hardin County Engineer’s Field Books and the Hardin County Auditor’s drainage minutes and records.

- 1906, Mar. 5 Original petition filed in the County Auditor's Office.
- 1906, Aug. 7-14 "The Iowa falls Sentinel" published Notice of petition.
- 1906, Sept. 4 Hearing
- 1906, Oct. 13 "THE SEMI-WEEKLY HERALD" published Notice for Drain District.
- 1906, Nov. 12 Hearing for damages
- 1907, Jan. 21 Amended and substituted petition was filed for a Drainage District No. 3.
- 1907, Feb. 2 Engineer's Report by Geo L. Mechem was filed.
- 1907, Nov. 7 Board of Supervisors - resolved to establish Drainage District No. 3.
- 1908, Mar. 4 Board of Supervisors rerecorded November 7, 1907 minutes, proceedings, and resolutions to fix errors in the establishment of Drainage District No. 3.
- 1908, Mar. 20 Commissioner Report of the permanent survey of Drainage District No. 3
- 1908, Apr. 23 Notice to Contractors for construction of Drainage District No.3 - Total Cu.Ydr. 209,654.
- 1908, Jun. 28 C.H. Sternbery & Sons Drainage Contractors bid submitted.
- 1908, Jun. 30 Indiana Drainage County bid submitted.
- 1908, Jul. 22 Northern Construction Company request to withdraw bid
- 1908, Jul. 23 Letter from County Auditor's Office to Elkhart Ind. stating they could not consider their bid.
- 1908, Oct. 14 Notice of assessment for Drainage District No. 3.
- 1908, Nov. 9 Awarded Construction Contract to Dilley & Berdine
- 1908, Nov. 14 Hearing for assessment for Drainage District No. 3.
- 1908, Dec. 11 Contract with Dilley & Berdine signed.
- 1912, Aug. 3 Letter from Clerk of the District Court to E.L. Marriage about fixing the upper end of the Drainage Ditch.
- 1913, Jan. 7 Engineer's Report by S.B. Gardner - Drainage Ditch needs to be deepened to drain properly.
- 1913, Aug. 3 Petition to change upper end of Drainage District from Station 352 to Station 476.
- 1913, Aug. 9 Drain Bound - Bond for Costs
- 1913, Oct. 7 Engineer's Report by S.B. Gardner - Cleaning from Station 80 to Station 338+50 and from Station 338+50 to Station 485.
- 1913, Nov. 28 Notice published in "HARDIN COUNTY CITIZEN" to convert the upper end of the Drainage District No. 3 from open ditch to tile.
- 1913, Dec. 16 Claim of Damages - \$1000
- 1913, Dec. 17 Claim of Damages - \$1000
- 1913, Dec. 22 Claim of Damages - \$300
- 1913, Dec. 22 Claim of Damages - \$500
- 1913, Dec. 22 Claim of Damages - \$1000
- 1913, Dec. 22 Claim of Damages - \$1000
- 1913, Dec. 22 Claim of Damages - \$200
- 1913, Dec. 27 Hearing for the notice for drain district and drain to convert the upper end of the Drainage District No. 3 from open ditch to tile.
- 1913, Dec. 29 Received list of damages for the reconstruction of the Drain District No. 3.
- 1914, Jan. 7 Engineer's Report by S.B. Gardner - Clean ditch from Station 80 to Station 315 & open ditch converted into closed drain from station 351 to station 185



1914, Jan. 7 Specifications for Drainage District No. 3. Improvements  
 1914, Jan. 7 Agreement to Pay Damages on Account of Ditch.  
 1914, Jan. 12 Notice to Contractors for reconstruction of Drainage District No. 3.  
 1914, Jan. 15-22 Notice to Contractors for reconstruction of Drainage District No. 3 published  
 in "The Eldora Herald"  
 1914, Feb. 3 Bids to be open for reconstruction of Drainage District No. 3  
 1914, Feb. 3 Contract for Construction of Drains  
 1914, Feb. 3 Proposal Bond \$2300 from Lion Bonding Surety Co.  
 1914, Feb. 21 Tile Contract - What Cheer Clay Products Company - \$11607.50  
 1914, Mar. 7 Loin Bonding & Surety County Bond No. 26218 - \$1000  
 1914, Mar. 7 Drain Tile Bond - \$2902  
 1914, Jun. 3 Letter to William & Huff, Attorneys from What Cheer Clay Products  
 1914, Jun. 3 Letter to O.L. Olson (winning bidder for drainage work) from Williams &  
 Huff (attorneys)  
 1914, Jun. 11 Letter to O.L. Olson (winning bidder for drainage work) from William & Huff  
 (attorneys) - demanding work to start on the 20th or forfeit the contract.  
 1915, Jan. 13 Notice of Labor Lien on improvement in Drainage District No. 3.  
 1915, Feb. 8 Final Settlement with What Cheer Clay Products having completed their  
 contract.  
 1915, Feb. 15 O.L. Olson has sublet a portion of his contract to Hogan & Badgerow.  
 1915, Apr. 1 Warrant Issued.  
 1915, Mar. 12 O.L. Olson assign \$768.00 to E.P. Davis for completion of Contract.  
 1915, Mar. 20 Notice of Claim and Lien by H.A. Kline on Drainage Ditch No. 3.  
 1915, Apr. 1 Lion Bonding & Surety County No. 12775 - \$1000  
 1915, Apr. 21 S.B. Gardner resigns as Engineer in charge  
 1915, May 5 E.W. Edwards (civil engineer), William Dunning and J.B. Starr Jr. were  
 appointed Commissioners to assess benefits on the repair of drainage district  
 No. 3  
 1915, Jul. 2 Official Bond No. 38488 - \$1000 - the Fidelity & Deposit Company of  
 Maryland.  
 1915, Jul. 2 Final Report by Engineer G.B. Gardner - E.W. Edwards appointed engineer in  
 charge.  
 1915, Sep. 29 Subcontract accepted from O.L. Olson to Hogan & Badgerow.  
 1915, Oct. 18 Engineer (E.W. Edwards) does not recommend that the work be accepted and  
 steps need to taken to make him complete the work.  
 1915, Dec. 16 E.W. Edwards resigns as Engineer for Drainage District.  
 1915, Dec. 17 W.S. Porter was appointed Engineer for Drainage District.  
 1916, Jan. 1 Official Bond - W.S. Porter Construction Engineer \$500  
 1916, Apr. 17 Commission to inspect Drainage District - W.S. Porter  
 1916, Jun. 8 Notice to Proceed with work on "Cleanout Work " to O.L. Olson (principal  
 contractor) or show cause why the work should not be relet.  
 1916, Jun. 13 O.L. Olson was request to appear before the board to show cause why the  
 work should be delayed, if not it would be relet for bid.  
 1916, Jun. 16 Notice to Contractors for reconstruction of Drainage District No. 3.  
 1916, Jun. 29 Notice to Contractors for reconstruction of Drainage District No. 3 published  
 in "The Eldora Herald"  
 1916, Jul. 10 Proposal on Drainage District No. 3 - received.  
 1916, Jul. 12 Notice to Contractors for reconstruction of Drainage District No. 3.  
 1916, Jul. 13-7 Notice to Contractors for reconstruction of Drainage District No. 3 published  
 in "The Eldora Herald"

1916, Jul. 27 Proposal on Drainage District No. 3 - received.

1916, Jul. 27 Contract for Construction of Drains - A.S. White - \$10,150.00

1916, Jul. 27 Contractor's Drainage Bond - A.S. White - \$2,536.00

1916, Dec. 28 Engineer's Report - W.S. Porter - Bulk-head at tiles ends is being undermined and needs to be replaced.

1916, Dec. 28 Engineer's Report - W.S. Porter - C.R.I & P Railway put piling through 28" tile line and destroyed the drain. Company to attend to this matter at once.

1916, Dec. 29 District Court of Iowa - Lion Bonding & Surety Co. pay \$1,724.00 for bond NO. 27618

1917, Aug. 6 Engineer's Report - W.S. Porter - Reconstruction work by A.S. White has been completed - full payment of \$10,150.00

1917, Aug. 8 Official Bond - W.S. Porter - Preliminary Engineer - \$1000 - for Drainage District No. 3.

1917, Aug. 17 Petition for Drainage District and Drain - Sections 31 & 32, Township 89 North, Range 20 West.

1917, Nov. 8 Engineer's Report - W.S. Porter - unfinished construction on the land of Mr. Geo. Robertson, to be fix at once.

1918, May 25 Court Decree - Plaintiffs: Lois W. Bloomquist and Fannie W. Emeny VS. Board of Supervisors and Drainage District No. 3 - Findings - Reduce assessments by 33 1/3%

1932, Jul. 30 Engineer's Report - J.R. Mahur - repairs need for Drainage District No. 3 in Section 27, Township 89 North, Range 21 West. - Remove trees, fix tiles and Bulk heads.

1943, Jul. 21 Request for Drainage Repairs - The open ditch from the tile outlet be cleaned.

1945, Apr. 3 Contract - Drainage Cleanout - Howard O. Young (contractor) - \$4,000.00

1956, Dec. 17 Engineer's Report - F.J. Reigles - Recommend tree removal, stumps be sprayed and some clean out work be done - estimate \$2,000.00.

1956, Dec. 18 Notice to Bidders - Clearing trees, brush and cleaning out Drainage District No. 3.

1956, Dec. 28 Notice published in "THE HARDIN COUNTY INDEX" for Bidders on Clearing trees, brush and cleaning out Drainage District No. 3.

1957, Jan. 9 Minutes of Board Meeting - Accepted A.L. Bock bid of \$3,802.87 solely for trees and Brush removal and did not include cleaning out the ditch.

1957, Dec. 23 Contract for Excavation- Wesley McDaniel - Excavate 800 Cubic Yards in Section 7, Township 88 North, Range 20 West - \$480.00

1958, Feb. 3 Contract for Excavation - Wesley McDaniel - Excavate 500 Cubic Yards in Section 8, Township 88 North, Range 20 West - \$375.00

1958, Mar. 4 Minutes of Board Meeting - \$6,000.00 was deemed necessary to pay for completion of repairs to Drainage District No. 3 and assessment of 30%.

1983, Apr. 1 Notice of Drainage Hearing - Hollis E. Ryken (Engineer) - recommends repairs or improvement to Drainage District.

1983, Jun. 30 Notice for Construction of Drainage Repair - (Main Open Channel) Clear, spray and dispose of all brush and trees in drainage ditch.

1983, Jun. 30 Notice published in "THE ACKLEY WORLD-JOURNAL" for Construction of Drainage Repair of Drainage District No. 3.

1983, Oct. 19 Engineer's Report - Hollis E. Ryken - Repairs are needed to Drainage District No. 3

1983, Nov. 28 Notice of Report by Hollis E. Ryken (Engineer) - regarding repairs of Drainage District No. 3.

- 1983, Dec. 7 Notice published in "THE IOWA FALLS CITIZEN" regarding repairs of Drainage District No. 3.
- 1984, Jan. Notice to Contractors - for restoration of 0.4 miles to Drainage District No. 3.
- 1984, Jan. 18-25 Notice published in "THE IOWA FALLS CITIZEN" regarding construction repairs to Drainage District No. 3 - restoration of 0.4 miles.
- 1984, Apr. 7 Petition - Request to proceed to advertise for bids on the repairs that Hollis E. Ryken stated in his October 19, 1983 Engineer's Report.
- 1984, Apr. 12 Proceeding of Trustees - No bids were received for construction repairs to Drainage District No. 3 - "Latch Outlet" in Section 8, low bid was Robert Gherke \$2,750.00
- 1984, Apr. 25 Drainage District No. 3 Clerk's Record, Proceedings of Trustees  
 - Center of Section 7 - Blown out tile lines, Trees growing over tile & surface water cutting ground - Robert Gherke to repair for \$1,500-\$1,700  
 - Bank wash out repair on the M.G. Clark farm at district expense  
 - tree cutting is into penalty period  
 - DD #149 has received no bids and would have to use other less expensive means.
- 1996, Aug. 19 Board of Trustees Meeting Held - maintain 5-year interval spraying the ditch
- 1997, Dec. 22 Board of Trustees Meeting Held  
 - Sub 1 repairs made on Bernie Miller farm  
 - Main tile checked for cotton wood roots (found) - \$280.41  
 - Repair blow out D.D. 3 main tile - Meade Martlett farm Section 28, Alden Township - \$341.54  
 - Removing Silt for D.D. 3 main ditch at Sub 149 main tile outlet - \$525.0  
 - Bill from Control Services Inc. Spraying brush along length of D.D. 3 - \$3,900.00  
 - Assess D.D. 3 \$8,000 to pay outstanding bills.
- 1998, Dec. 17 Board of Trustees Meeting Held  
 - Repair Blow sub district #111 - \$234.60  
 - Tile repair of sub district #64 - \$745.35  
 - Place Concrete rip-rap on Main ditch bank of D.D. 3 Thelke farm Section 1, Ellis Township - \$1,672.5  
 - Purchase 15 feet of tile to repair sub district #64 - \$70.50  
 - Levy sub district #64 \$1,100.00

3.0 **INVESTIGATION** – Review of the district history indicates that the Main tile of Drainage District 3 has had few previous repairs. It is assumed that there have been more repairs, but the details of them have just been lost to time. The field investigation for this report was performed at the request of the Drainage District Trustees. Said investigation was limited to visual observation (with limited excavation) along with survey data, and pictures gathered. During the investigation, there were 5 sinkholes found on the Main tile along with the Main tile being in various states of collapse over the course of 4,745± feet. For reference, a copy of the observation report with pictures is included in Appendix A and a map showing the investigation limits is included in Appendix B.

4.0 DISCUSSION AND CONCLUSIONS – Based on the above, it is obvious that the existing Main tile, in the area of investigation is in various states of collapse and is restricting drainage capacity in the area. If repairs or improvements are not performed, the Main tile will continue to have poor drainage performance, the upstream landowners will continue to experience overland flow, ponding, and additional sinkholes will form over the Main tile. This will continue to affect productivity of the farmed ground upstream of these issues and will get worse as the tile ages. When all these issues are combined, it will lead to further reduced drainage and liability exposure by the drainage district.

5.0 REPAIR METHOD – To repair the existing Main tile, the following option is the most straight forward available:

Partial Tile Replacement

- Remove and replace the entire Main tile for the entire investigation limits with new Main tile of equal or comparable size.
- Typically, the replacement Main tile would be in the same location as the existing Main tile in order to locate and reconnect private tile and district lateral tile. For reference, the route and locations are shown on the map included in Appendix B.

With the above-mentioned repair method, the following should be noted:

- The pipe sizes used are those that are currently manufactured that most closely meet or exceed the current Main tile size.
- The Partial Tile Replacement option would allow for lower maintenance costs in the future as the entire Main tile is new.
- The Partial Tile Replacement option would remove all soil and debris in the existing Main tile.
- Repairs have historically been viewed as not having an impact on jurisdictional wetlands. As such, individual landowners should consult with applicable staff at the Hardin County NRCS offices to verify the existence of said jurisdictional wetlands and that there will be no impact on them.

Per Iowa Code Chapter 468.126, any of the above actions that do not increase capacity would be considered a repair. As such, Subsection 1, paragraph c of Chapter 468.126 states "If the estimated cost of the repair does not exceed fifty thousand dollars, the board may order the work done without conducting a hearing on the matter. Otherwise, the board shall set a date for a hearing. . ." The opinion of probable construction cost contained in the next section of this report exceeds said \$50,000 limit. Therefore, a hearing will be required. Per Iowa Code Chapter 468.126.1.g, the right of remonstrance does not apply to the proposed repairs.

6.0 IMPROVEMENT METHOD – To improve the drainage capacity for the existing Main tile, the following option is the most straight forward available:

Open Ditch

- Remove and replace 4,745± feet of the Main tile with a Main Open Ditch.
- Typically, the Main Open Ditch would be in the same location as the existing Main tile in order to locate and outlet private tile and district lateral tile. For reference, the route and locations are shown on the map included in Appendix B.
- Outlet all private and lateral tile encountered to discharge into the Main Open Ditch.

With the above-mentioned possible improvement, the following should be noted in addition to the notes in repair methods section:

- This option would probably involve obtaining of right of way.
- The replacement of the Main tile with a Main Open Ditch increases drainage capacity, which has traditionally fit the Iowa Code definition of improvement. However, the replacement is not being suggested to increase drainage capacity, but is being offered solely to extend the lifecycle of the district facility and the original design for the Main in this area was an open ditch. Legal counsel should be consulted to provide advice concerning this.
- If this option is deemed a repair by legal counsel, repairs have historically been viewed as not having an impact on jurisdictional wetlands. As such, individual landowners should consult with applicable staff at the Hardin County NRCS offices to verify the existence of said jurisdictional wetlands and that there will be no impact on them.
- If this option is deemed an improvement by legal counsel, improvements have historically been viewed as having an impact on jurisdictional wetlands. As such, individual landowners should consult with applicable staff at the Hardin County NRCS offices to verify the existence of said jurisdictional wetlands and what said impact may be on them.

If legal counsel considers the above option a repair, it is our opinion that the following is applicable. Subsection 1, paragraph c of Chapter 468.126 states "If the estimated cost of the repair does not exceed fifty thousand dollars, the board may order the work done without conducting a hearing on the matter. Otherwise, the board shall set a date for a hearing. . ." The opinion of probable construction cost contained in the next section of this report exceeds said \$50,000 limit. Therefore, a hearing will be required. Per Iowa Code Chapter 468.126.1.g, the right of remonstrance does not apply to the proposed repairs.

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

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

<b>METHOD</b>	<b>TOTAL COST</b>	<b>CONSTRUCTION COST</b>	<b>ROAD CROSSING COST</b>
Repair - Partial Tile Replacement	\$479,758.44	\$444,395.94	\$35,362.50
Improvement - Open Ditch	\$584,667.19	\$409,780.94	\$174,886.25

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

8.0 OWNERSHIP AND CLASSIFICATIONS – Any and all information concerning ownership of lands and classifications of said lands within Drainage District No. 3 can be obtained from the Hardin County Auditor’s office.

It should be noted that Iowa Code Chapter 468.65 states “When, after a drainage . . . district has been established . . .” and “. . . a repair . . . has become necessary, the board may consider whether the existing assessments are equitable as a basis for payment of the expense of . . . making the repair . . .” and “If they find the same to be inequitable in any particular . . . they shall . . . order a reclassification . . .” Based on this, it is our opinion that a reclassification may be required if the repair were to move forward.

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

9.0 RECOMMENDATIONS – There is a definite need to perform one of the above-mentioned actions. The actions would remove the current restrictions to the Main tile and extend the lifespan of the same. Therefore, it is recommended that the District Trustees, should take action to accomplish the following:

- Approve the Engineer’s Report as prepared by Clapsaddle-Garber Associates.
- Seek advice from legal counsel as to whether the Open Ditch alternative is a repair or improvement.
- Hold the required hearing on the proposed repair or improvement.
- Adopt one of the recommendations of the Engineer’s Report.
- Direct plans and specifications for the proposed repair or improvement be prepared by Clapsaddle-Garber Associates.
- Proceed with receiving bids from interested contractors by Clapsaddle-Garber Associates.
- Award contract to the lowest responsible contractor.
- If desired or required by Iowa Code, proceed with reclassification proceedings after seeking legal advice concerning the same.

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11-17-20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF

PROJECT NUMBER:

6490.4

COUNTY, ROUTE, ROAD:

I Ave & 155<sup>th</sup>

LOCATION:

Hardin County DD # 3

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

10:30 a.m. = Arrived at job site after locating control points and setting up GPS on C.P.T # 34. Checked into CPT # 38 Horizontal was good but vertical was off 0.23.

10:44 a.m. = Crew was exposing tile at Northern most sink hole, in surface ditch. 26" VCP removed, 1 section, took pictures upstream and down and shot top pipe. GPS Pt # 5550. Contractor replaced tile and placed fabric over joints

11:00 a.m. = Met foreman at southern most sink hole, which had been excavated previously. Point # ~~5551~~<sup>5551</sup>, took pictures, tile was completely collapsed upstream and downstream.

11:34 a.m. = Contractor is excavating approximately 100' +/- North west of Northern most sink hole West of I Ave. Pt. # 5552, Tile is broken and egg shaped upstream and downstream.

Shot top of tile at sink hole # 5553, could not get pictures.

1:30 p.m. = Crew removed tile at Pt # 5554, tile 24" ? broke into 3 pieces. 24" VCP upstream and downstream broke, and beginning to collapse.

1:35 p.m. = Crew is excavating further West, 24" VCP at Point # 5555 is oval shaped upstream and downstream. Took Pictures

2:00 p.m. = Discovered another sink hole, South of fence line and West of Pt # 5555. shot top of pipe # 5556 and took pictures.

2:30 p.m. = Crew excavated West of # 5556. Located tile end removed 1 section, Pt # 5557. 24" VCP appears to be in good condition looking West, possible 1 section cracked, the rest are in good condition as far as I could see. Looking East 24" VCP is oval shaped as far as visible. Not collapsing.

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

Observer's Signature:

James Van Hove

Date Prepared:

11-18-20

Reviewed by:

Engineer

Date Reviewed



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11-17-20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

2 OF

PROJECT NUMBER:

6490.4

COUNTY, ROUTE, ROAD:

I Ave & 155<sup>th</sup>

LOCATION:

Hardin County DD #3

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

2:45 p.m. = Shot pts # 5558 and # 5559 directly south west of intake structure with sink hole around. GPS shots are top of 24" and 18" VCP connected to structure which has settled 0.5' to 0.75'. Structure is in very bad shape, may have originally had a bee hive intake now missing.

3:45 p.m. = shot top of pipe at sinkhole. Pt # 5560, could not get pictures.

4:00 p.m. = Crew exposed tile west of railroad ROW, and removed 1 section, section was cracked and broke into several pieces during removal. Pt # 5561 top 28" VCP, VCP is oval shaped both directions from # 5561, as far as C.O. could see. Crew repaired tile with 24" dual wall HDPE, placed fabric over joints and tile bats over new tile.

left for day and tore down G.P.S.

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

Observer's Signature:

James Van Hove

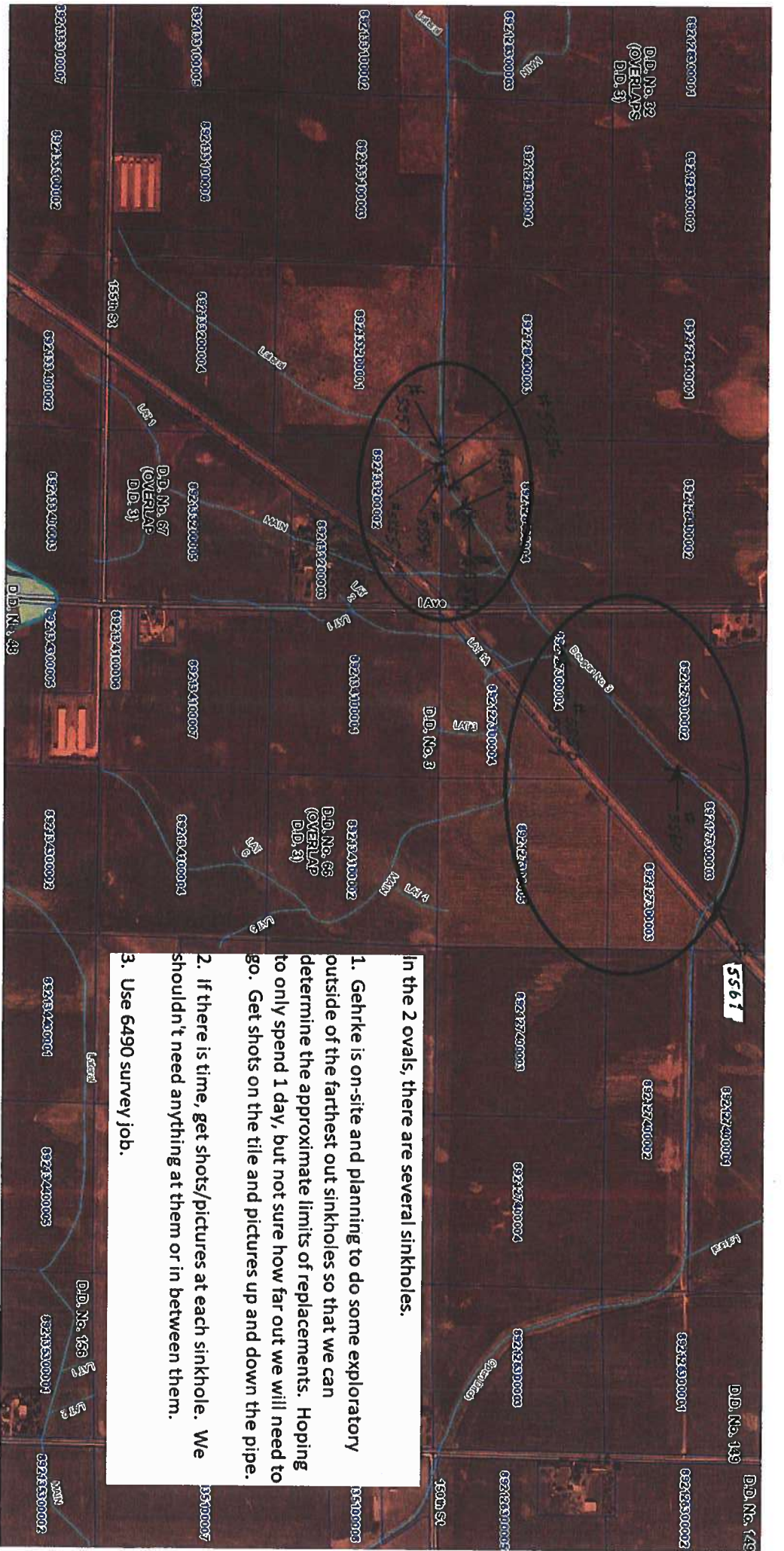
Date Prepared:

11-18-20

Reviewed by:

Engineer

Date Reviewed

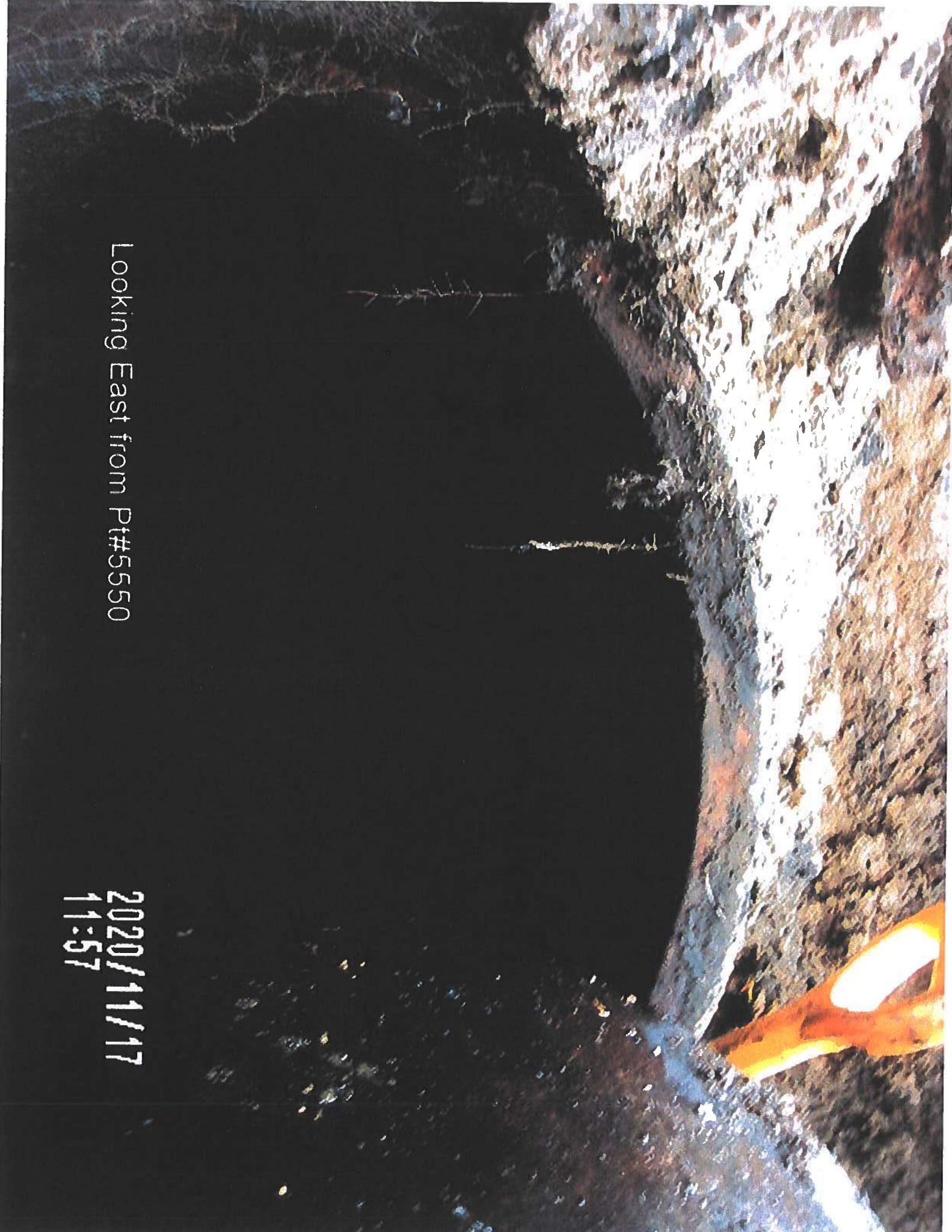


In the 2 ovals, there are several sinkholes.

1. Gehrke is on-site and planning to do some exploratory outside of the farthest out sinkholes so that we can determine the approximate limits of replacements. Hoping to only spend 1 day, but not sure how far out we will need to go. Get shots on the tile and pictures up and down the pipe.
2. If there is time, get shots/pictures at each sinkhole. We shouldn't need anything at them or in between them.
3. Use 6490 survey job.

Looking East from Pt#5550

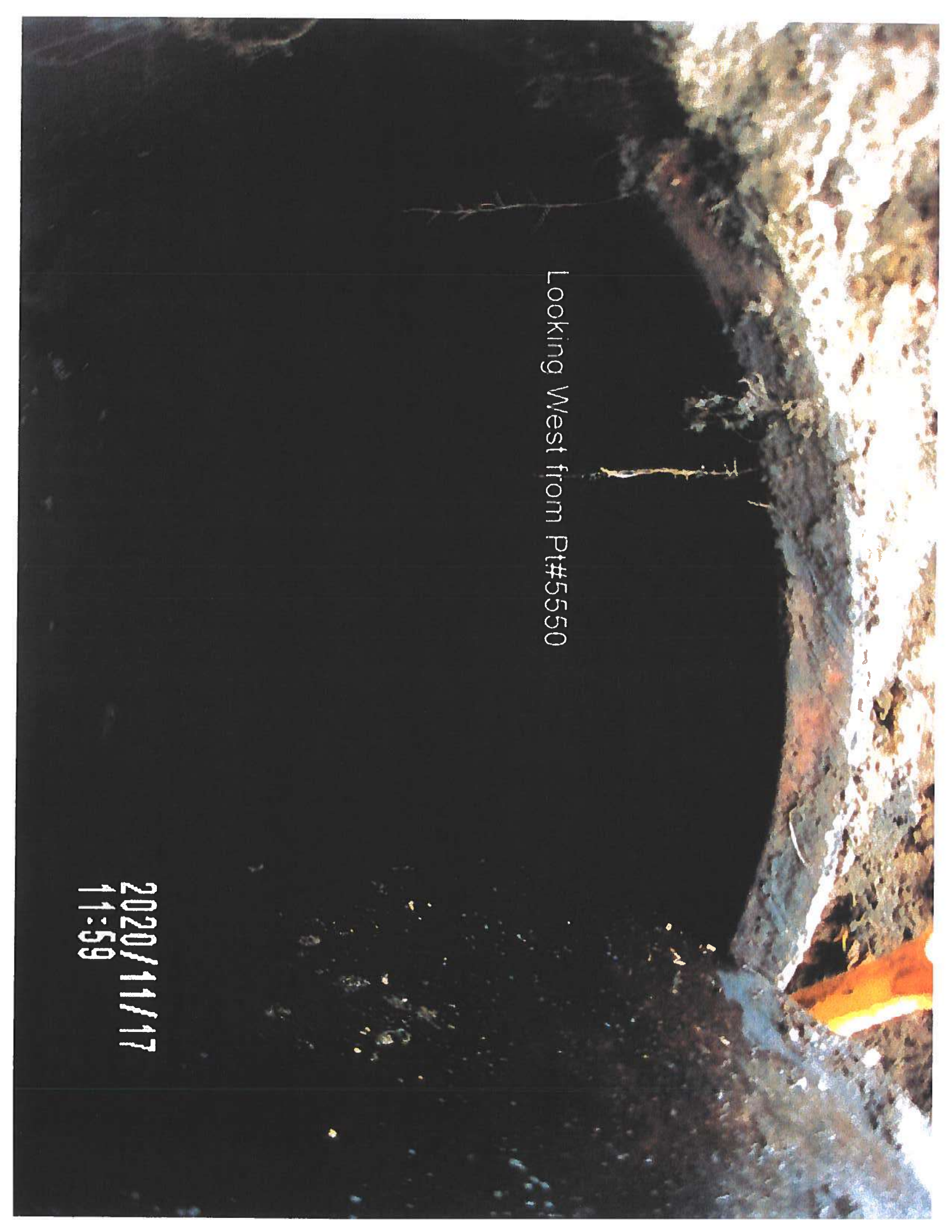
2020/11/17  
11:57



A night photograph showing a dark, silty landscape. In the upper right, a rocky ridge is illuminated, showing a mix of dark and light-colored rocks. The rest of the scene is mostly black, with some faint, distant lights visible on the right side.

Looking West from Pt#55550

2020/11/17  
11:58



Looking West from Pt#5550

2020/11/17  
11:59

Looking West from Pt#5550

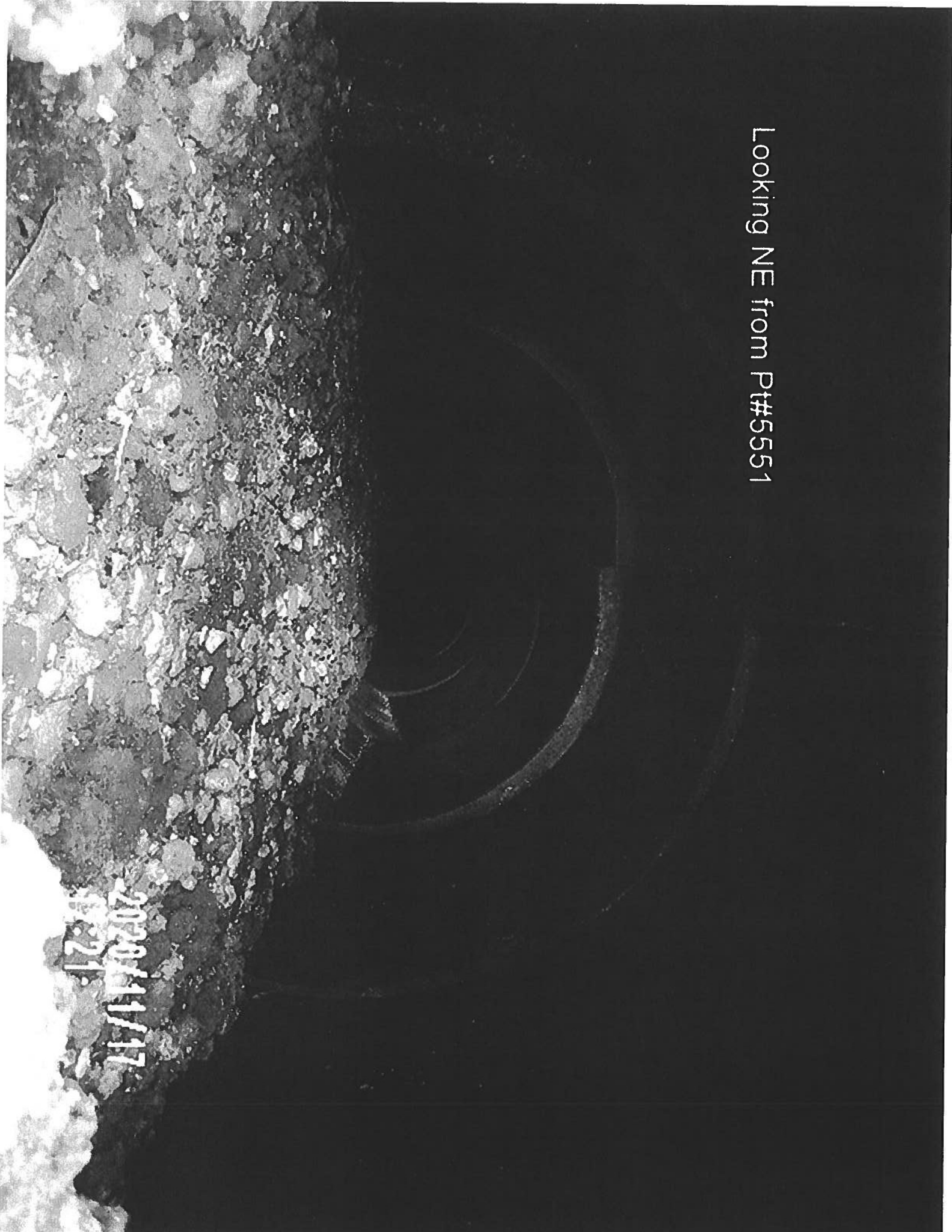
2020/11/17  
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Looking NE from Pt#5551



2020/11/17  
12:29

Looking NE from Pt#5551



2020/11/17  
14:21

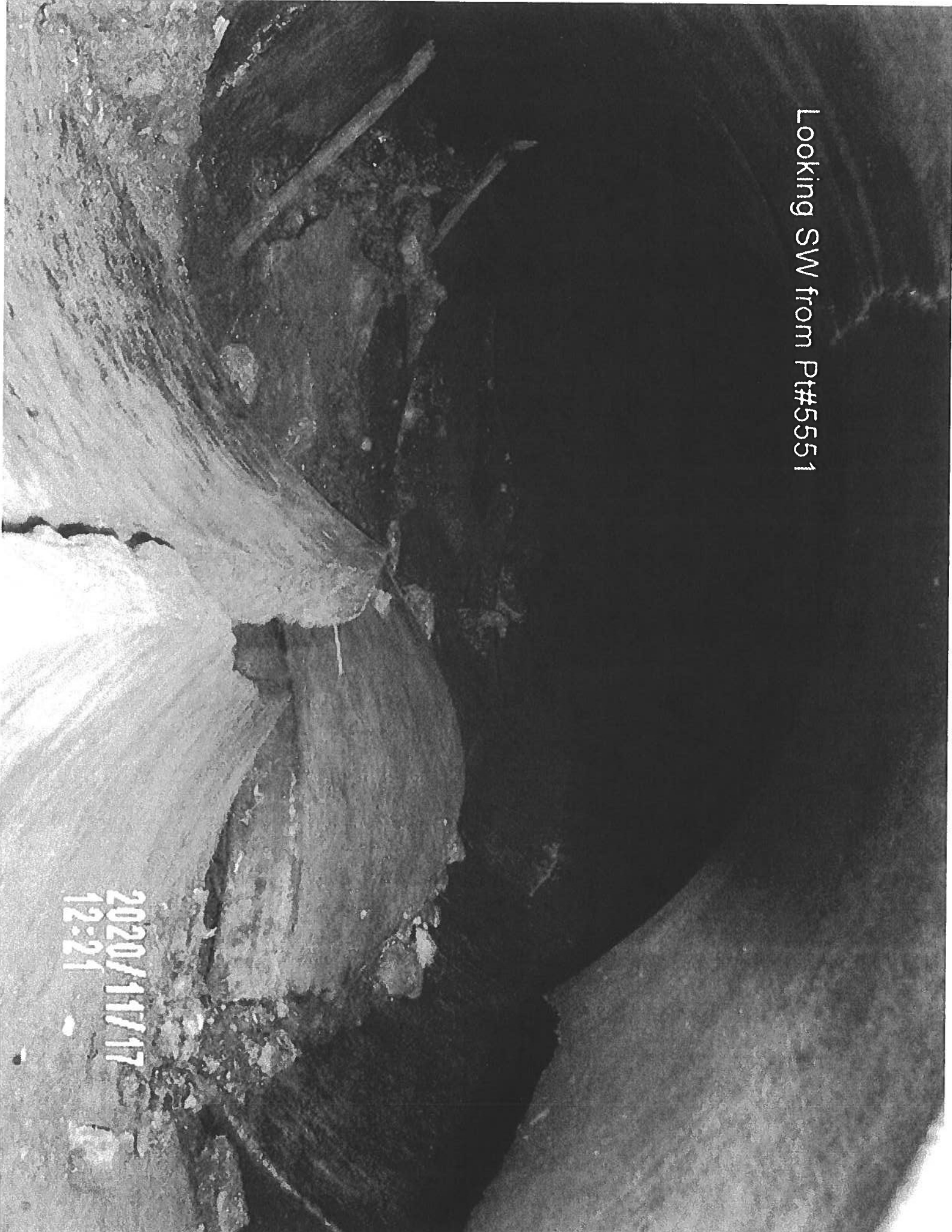


Looking SW from Pt#5551

2020/11/17  
12:21

Looking SW from Pt#5551

2020/11/17  
12:21



Looking SW from Pt#55553



Looking NE from Pt#5553

2020/11/17  
12:25

Looking Ne from Pt#5553

2020/11/17  
12:26

Looking West from Pt#5554

2020/11/17  
12:53



Looking West from Pt#5554

2020/11/17  
12:53



Looking East from Pt#55554

2020/11/17  
12:53





Looking East from Pt#55554

2020/11/17  
12:53

Looking East from Pt#55555

2020/11/17  
14:26



Looking East from Pt#55555

2020/11/17  
Pt#26

Looking West from Pt#55555

2020/11/17  
14:26

Looking West from Pit#5555

2020/11/17  
14:26



Looking East from Pt#55556

2020/11/17  
14:48



Looking East from Pt#55556

2020/11/17  
14:48

Looking West from Pt#55556

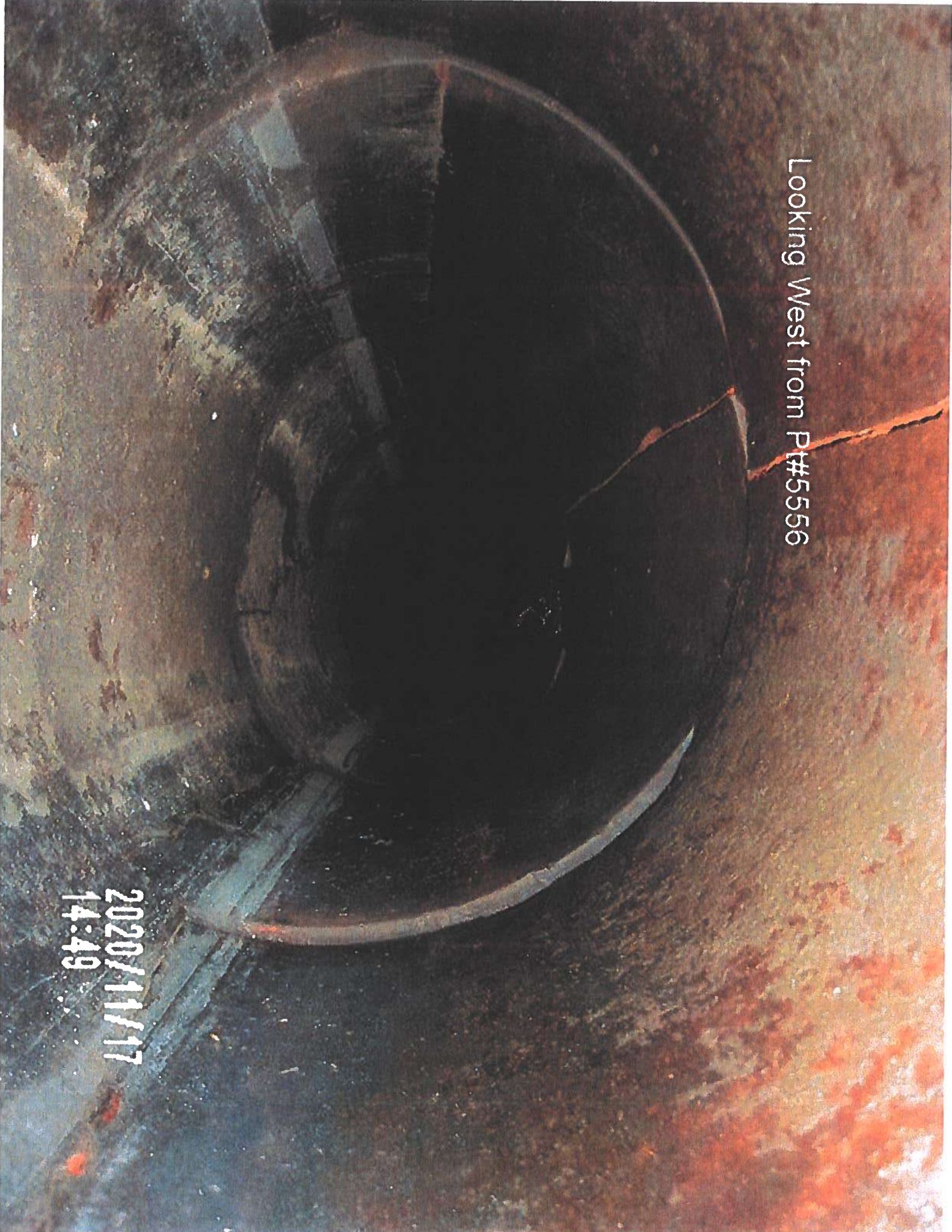
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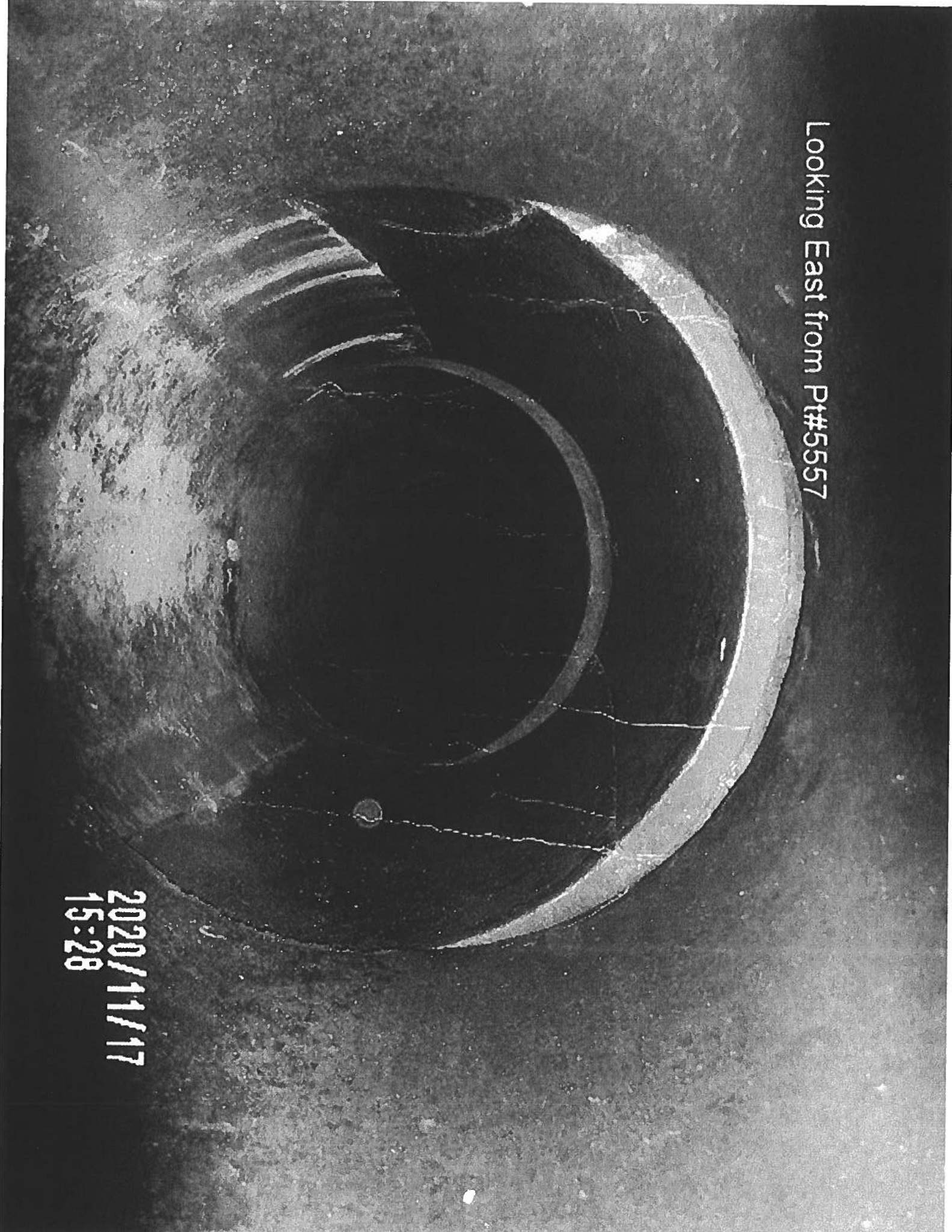
Looking West from Pt#55556

2020/11/17  
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Looking East from Pt#5557

2020/11/17  
15:28

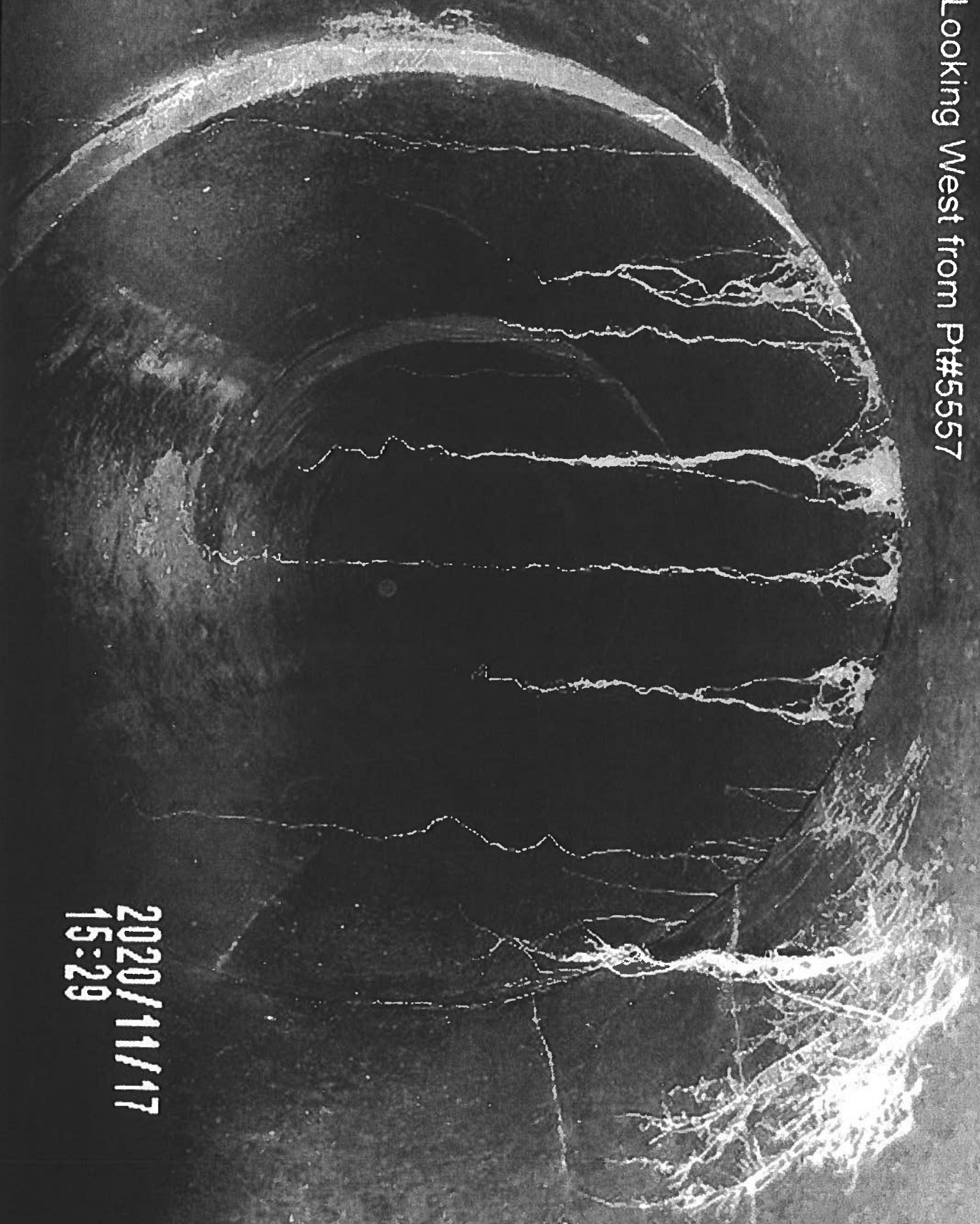


Looking East from Pt#55557

2020/11/17  
15:28

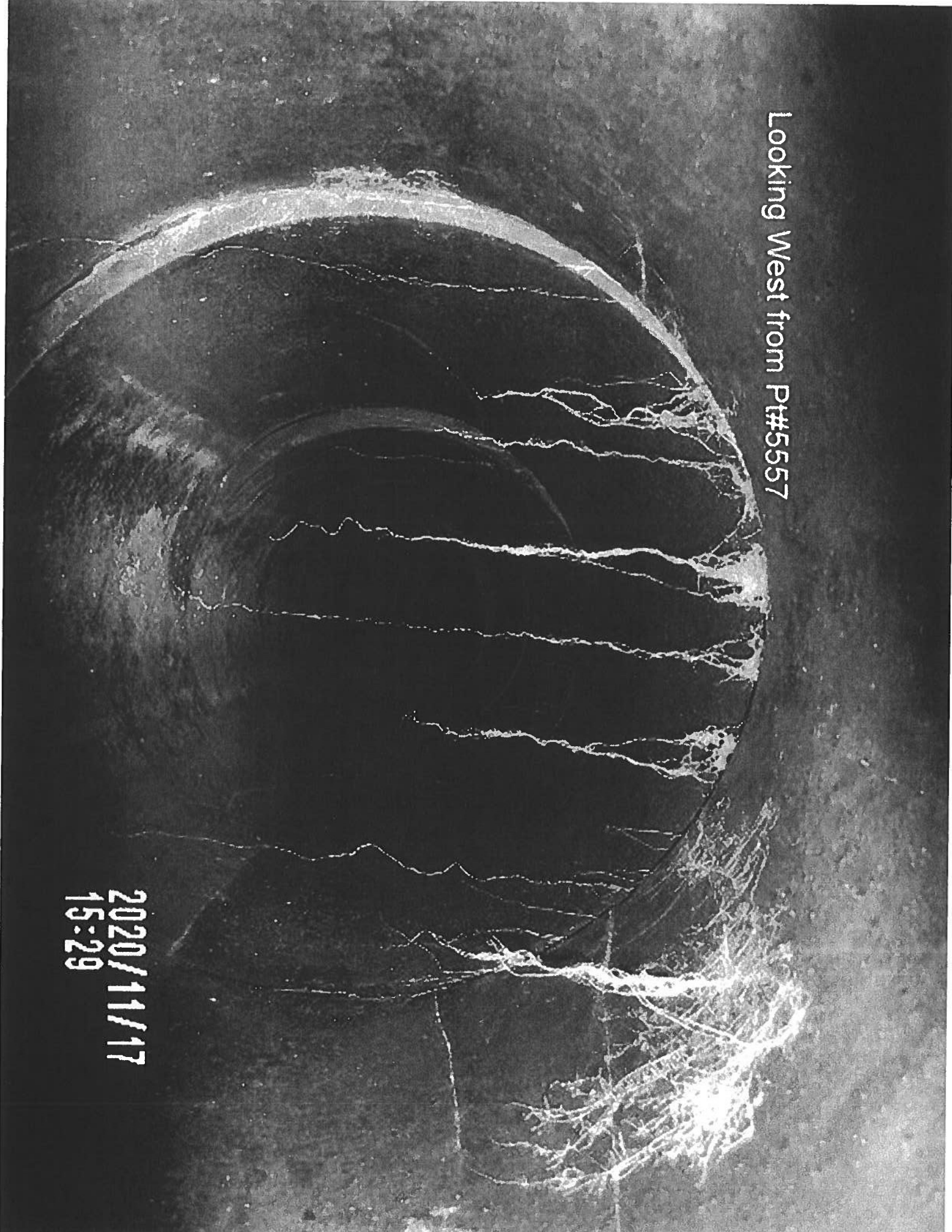
Looking West from Pt#5557

2020/11/17  
15:29



Looking West from Pt#55557

2020/11/17  
15:29



Top of intake maybe beehive by PI 5558

2020/11/17  
15:55



Hydake structure at P#55558

2020/11/17  
15:55



Intake structure at Pt#5559

2020/11/17  
15:55





Intake structure at Pt#5558

2020/11/17  
15:55



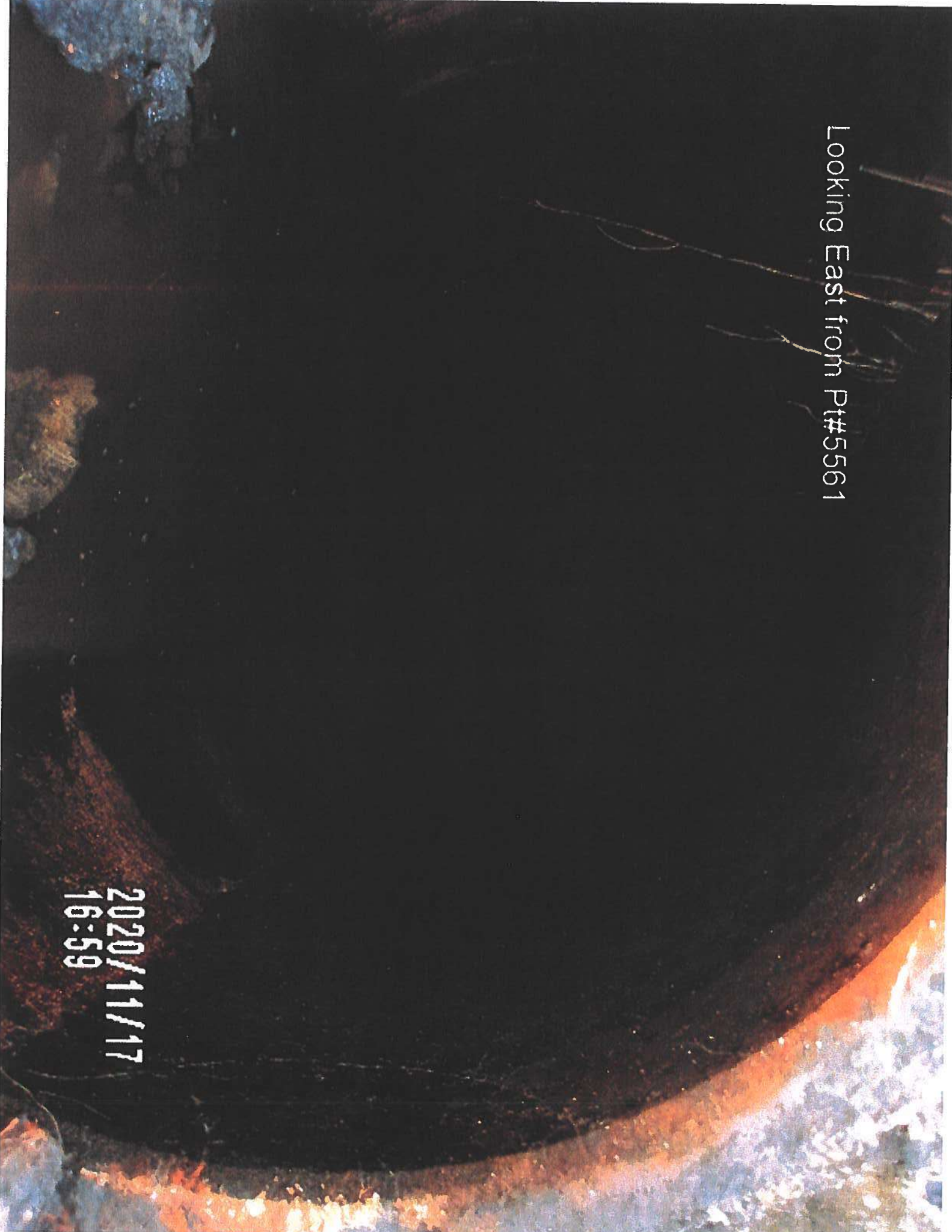
Looking East from Pt#5561

2020/11/17  
16:58



Looking East from Pt#5561

2020/11/17  
16:59



Looking West from Pt#5561

2020/11/17  
16:59

Looking West from Pt#5561

2020/11/17  
16:59



Tile repair at Pt#55561

2028/11/17  
17:16

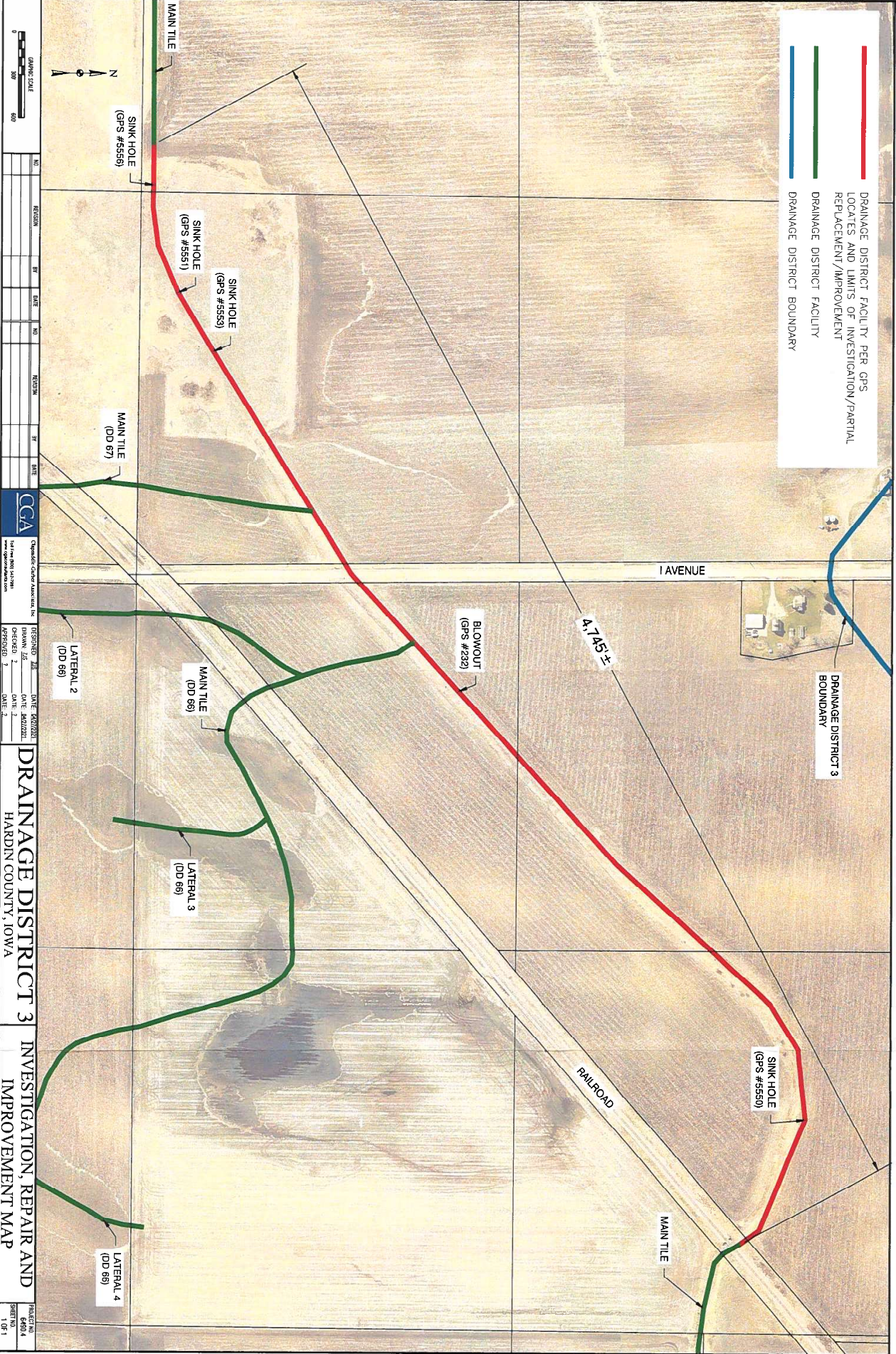




Tile repair at Pt#5561

2020/11/17  
17:21

— DRAINAGE DISTRICT FACILITY PER GPS  
— LOCATES AND LIMITS OF INVESTIGATION/PARTIAL  
— REPLACEMENT/IMPROVEMENT  
— DRAINAGE DISTRICT FACILITY  
— DRAINAGE DISTRICT BOUNDARY



NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE



CONSULTANT: **CGA**  
 CONSULTANT: **CGA**  
 CONSULTANT: **CGA**

DESCRIPTION	DATE	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

**DRAINAGE DISTRICT 3**  
HARDIN COUNTY, IOWA

**INVESTIGATION, REPAIR AND  
IMPROVEMENT MAP**

PROJECT NO. 6490  
 SHEET NO. 1 OF 1



**Engineer's Opinion of Probable Construction Cost**  
**Project: Main tile Repair for D.D. #3**  
 Location: Sections 27 and 28, T89N, R21W, Hardi County, Iowa

ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
<b>CONSTRUCTION COSTS</b>						
101	30" RCP OR DUAL WALL TILE	\$ 60.00	FT	3536	FT	\$ 212,160.00
102	24" RCP OR DUAL WALL TILE	\$ 40.00	FT	1143	FT	\$ 45,720.00
103	30" x 24" RCP OR DUAL WALL REDUCER	\$ 1,250.00	EA	1	EA	\$ 1,250.00
104	RCP OR DUAL WALL LATERAL CONNECTIONS	\$ 1,600.00	EA	2	EA	\$ 3,200.00
105	PRIVATE TILE CONNECTIONS	\$ 600.00	EA	20	EA	\$ 12,000.00
106	CONCRETE COLLARS	\$ 400.00	EA	4	EA	\$ 1,600.00
107	REMOVAL OF EXISTING TILE	\$ 7.00	LF	4745	LF	\$ 33,215.00
<b>CONSTRUCTION SUBTOTAL</b>						\$ 309,145.00
Contingency (15%)						\$ 46,371.75
<b>CONSTRUCTION TOTAL</b>						\$ 355,516.75
Engr. & Const. Observation (25%)						\$ 88,879.19
<b>TOTAL COST</b>						\$ 444,395.94
<b>ROAD CROSSING CONSTRUCTION COSTS</b>						
108	30" RCP OR DUAL WALL TILE (1 AVE.)	\$ 90.00	LF	66	LF	\$ 5,940.00
109	TILE REMOVAL	\$ 10.00	LF	66	LF	\$ 660.00
110	HICKENBOTTOM INTAKE	\$ 1,500.00	EA	2	EA	\$ 3,000.00
111	PERMANENT SEEDING AND WARRANTY	\$ 1,500.00	LOC	2	LOC	\$ 3,000.00
112	TRAFFIC CONTROL	\$ 4,000.00	LOC	3	LOC	\$ 12,000.00
<b>CONSTRUCTION SUBTOTAL</b>						\$ 24,600.00
Contingency (15%)						\$ 3,690.00
<b>CONSTRUCTION TOTAL</b>						\$ 28,290.00
Engr. & Const. Observation (25%)						\$ 7,072.50
<b>TOTAL COST</b>						\$ 35,362.50

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



By: Z.J.S.  
 Date: 5/1/2021  
 Checked By: L.O.G.  
 Date: 5/3/2021

**Engineer's Opinion of Probable Construction Cost**  
**Project: Main tile Improvement for D.D. #3**  
 Location: Sections 27 and 28, T89N, R21W, Hardin County, Iowa

ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
<b>OPEN DITCH CONSTRUCTION COSTS</b>						
201	OPEN DITCH CONSTRUCTION	\$ 2,000.00	STA	46.55	STA	\$ 93,100.00
202	30" CMP OUTLET WITH RODENT GUARD	\$ 80.00	LF	40	LF	\$ 3,200.00
203	30" CMP INLET	\$ 75.00	LF	40	LF	\$ 3,000.00
204	30" CMP FLARDED END	\$ 500.00	EA	1	EA	\$ 500.00
205	SHEET PILE HEADWALL	\$ 35,000.00	EA	1	EA	\$ 35,000.00
206	RIP-RAP	\$ 50.00	TN	250	TN	\$ 12,500.00
207	SURFACE DRAINS	\$ 2,000.00	EA	12	EA	\$ 24,000.00
208	PRIVATE TILE OUTLETS	\$ 1,500.00	EA	20	EA	\$ 30,000.00
209	LATERAL TILE OUTLETS	\$ 2,000.00	EA	2	EA	\$ 4,000.00
210	PERMANENT SEEDING AND WARRANTY	\$ 1,000.00	STA	46.55	STA	\$ 46,550.00
211	TILE REMOVAL	\$ 7.00	LF	4745	LF	\$ 33,215.00
<b>CONSTRUCTION SUBTOTAL</b>						\$ 285,065.00
Contingency (15%)						\$ 42,759.75
<b>CONSTRUCTION TOTAL</b>						\$ 327,824.75
Engr. & Const. Observation (25%)						\$ 81,956.19
<b>TOTAL COST</b>						\$ 409,780.94
<b>ROAD CROSSING CONSTRUCTION COSTS</b>						
212	RCP BOX CULVERT (I AVE.)	\$ 2,000.00	LF	50	LF	\$ 100,000.00
213	TILE REMOVAL	\$ 10.00	LF	66	LF	\$ 660.00
214	SURFACE DRAINS	\$ 2,000.00	EA	4	EA	\$ 8,000.00
215	PERMANENT SEEDING AND WARRANTY	\$ 3,000.00	LOC	1	LOC	\$ 3,000.00
216	TRAFFIC CONTROL	\$ 10,000.00	LOC	1	LOC	\$ 10,000.00
<b>CONSTRUCTION SUBTOTAL</b>						\$ 121,660.00
Contingency (15%)						\$ 18,249.00
<b>CONSTRUCTION TOTAL</b>						\$ 139,909.00
Engr. & Const. Observation (25%)						\$ 34,977.25
<b>TOTAL COST</b>						\$ 174,886.25

OPEN DITCH REPLACEMENT

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