

AGENDA
REGULAR DRAINAGE MEETING
Wednesday, April 29, 2020 9:30 AM
Large Conference Room

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

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

You can also access the meeting online at:

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

1. Open Meeting
2. Approve Agenda
3. Approve Claims For Payment

Documents:

[PAYABLES-DRAINAGE PUBLICATION 05_01_20.PDF](#)

4. Approve 2020 Assessments

Documents:

[2020 DRAINAGE ASSESSMENTS.PDF](#)

5. DD 22 WO 176 - Discuss W Possible Action - Update & Pay Estimate #6

Documents:

[PN 8712-PAY ESTIMATE 6 TO DD 22.PDF](#)

6. DD 22 WO 276 - Discuss W Possible Action - Update

Documents:

[DD 22 WO 276.PDF](#)
[DD 22 WO 276 -6532.4 - DRAINAGE INVESTIGATION SUMMARY.PDF](#)

7. DD 22 WO 176 - Discuss W Possible Actions - Crop Damages 2020-5 & Update
DD 22 WO 176 - Claim for Crop Damages 2020-5 was submitted by Terry Swenson for damages done during tile repair. Also included is DD 22 Crop Damage Exhibit from CGA.

Documents:

[DRAINAGE CLAIM FOR DAMAGES 2020-5 TERRY SWENSON DD 22.PDF](#)
[HARDIN DD 22 MAIN TILE REPAIRS 2019 CROP DAMAGE 04_24_20.PDF](#)

8. DD 52 WO 215 - Discuss W Possible Action - Investigation & Repair Summary

Documents:

[DD 52 WO 215 INVESTIGATION SUMMARY 04_24_20.PDF](#)
[DD52 WO215-REPAIR SUMMARY - PARTIAL 04_24_20 .PDF](#)

9. DD 26 Lat 4 WO 82 - Discuss W Possible Action - Investigation Summary / Update

Documents:

[DD26 LAT4 INVESTIGATION 010919.PDF](#)

10. DD 68 WO 293 - Discuss W Possible Action

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

Documents:

[DD 68 WO 293.PDF](#)
[DD 68 WO 293 MAP.PDF](#)

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

DD Big 4 Main WO 292 - Nick Hoversten reports intake is sucking in dirt on Main DD tile, in west edge of parcel, right on property line with Hudspeths.

Documents:

[DD BIG 4 MAIN - WO 292.PDF](#)
[DD BIG 4 MAIN WO 292 MAP.PDF](#)

12. Other Business

13. Adjourn Meeting



Hardin County

Drainage Claims with Pay Date of 5/1/2020

| Description | Vendor | Amount |
|---|-----------------------------------|-----------|
| DD 26 Lat 4 WO 82 - Tile Investigation | Adam Seward | 300.00 |
| DD 25 WO 209 - Crop Dmge Claim 2020-2 Revised | Alvin C Clark | 600.88 |
| DD 25 WO 209 - Crop Damge Claim 2020-2 Revised | David A Fincham | 600.88 |
| DD 48 WO 237 -Parts, labor & equipment | Honey Creek Land Improvement, LLC | 13,835.00 |
| DD 128 WO 279- Labor & Equipment | Honey Creek Land Improvement, LLC | 652.50 |
| DD 143 - WO 241 - Legal Prof Srvc, Review Eng Rpt | The Davis Brown Law Firm | 1,045.00 |
| DD Big 4 Lat 4 WO 195 - Beaver dam removal | Adam Seward | 350.00 |

Total Regular Payables: 300.00
Total Stamped Warrants: 17,084.26

2020 Drainage Assessments

| District | Fund# | Amount Needed | Amount Levied | % Levied | Waivers |
|-------------------|-------|---------------|---------------|----------|---------|
| DD DD JT H-F 5-75 | 51214 | \$ 12,180.41 | \$ 15,000.00 | 149.192% | 10 Year |
| DD DD34 | 51058 | \$ 22,436.90 | \$ 25,000.00 | 9.969% | 10 Year |
| DD DD JT H-S 35-1 | 51236 | \$ 5,786.42 | \$ 9,000.00 | 27.302% | 10 Year |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Approved Date

Lance Granzow, Chairperson

Renee McClellan, Supervisor

BJ Hoffman, Supervisor

CONSTRUCTION PROGRESS REPORT

Project Description: Main Tile Repairs to Drainage District 22 Facilities
Hardin County, Iowa
Project Nos. DD-6532.2 and 8712

Estimate: No. 6

Date of Contract: August 16, 2018

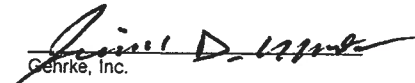
Completion Date: 9/1/2019 - Updated to 12/1/2019 per Change Order #6 - Updated to 11/30/2020 per Change Order #11

Contractor: Gehrke, Inc.
Eldora, IA

Owner: Hardin County Trustees
of Drainage District 22

| | | | |
|------------------------------|---------------------|--|---------------------|
| Base Contract Price | \$549,332.50 | Construction Completed (See Attached Tab) | \$557,587.50 |
| Approved Equivalent #1 | -\$442.00 | Total Amount Earned | \$557,587.50 |
| Change Order #2 | \$1,184.00 | Less 2% Retainage | <u>\$11,151.75</u> |
| Change Order #3 | -\$17,992.00 | <i>(Note Retainage % Reduced per CO #11)</i> | |
| Change Order #4 | \$0.00 | Subtotal | \$546,435.75 |
| Change Order #5 | \$1,749.00 | Less Previous Payment | <u>\$519,542.59</u> |
| Change Order #6 | \$0.00 | AMOUNT DUE THIS ESTIMATE | \$26,893.16 |
| Change Order #7 | \$1,650.00 | | |
| Change Order #8 | \$3,150.00 | | |
| Change Order #9 | \$360.00 | | |
| Change Order #10 | -\$1,896.00 | | |
| Change Order #11 | \$0.00 | | |
| Change Order #12 | \$20,492.00 | | |
| Total Contract Amount | \$557,587.50 | | |


Requested by Contractor:


Gehrke, Inc.

Vine President
Title

4-22-2020
Date

Recommended by Engineer:


Heather A. Thomas
Clapsaddle-Garber Associates, Inc.

Project Engineer
Title

4/22/2020
Date

Approved by Owner:

Hardin County Supervisors

Title

Date

Prepared by:
Clapsaddle-Garber Associates
Marshalltown, Iowa 50158

CGA Project No. 8712.06
January 13, 2020

| Tabulation of Construction Quantities | | | | | | | | |
|---|---|------|----------------|-------------------|--------|---------------------|--------|---------------------|
| Main Tile Repairs to Drainage District 22 Facilities | | | | | | | | |
| Hardin County, Iowa | | | | | | | | |
| Period Ending: April 20, 2020 | | | | | | | | |
| Item No | Description | Unit | Unit Bid Price | Adjusted Contract | | Completed | | |
| | | | | Quantity | Amount | Quantity | Amount | |
| 1A | 30" Ø RCP Tile, Perforated - For Tile Replacement | LF | \$53.00 | "" | 6,155 | \$326,215.00 | 6,155 | \$326,215.00 |
| 2A | 30" Ø RCP Tile Road Crossing, Perforated - For Tile Replacement | LF | \$46.00 | "" | 280 | \$12,880.00 | 280 | \$12,880.00 |
| 3A | CCTV Inspection Of Roadway Crossing Tile - For Tile Replacement | LF | \$3.00 | "" | 0 | \$0.00 | - | \$0.00 |
| 4A | Connection To Road Crossing Tile To Remain - For Tile Replacement | Each | \$400.00 | "" | 0 | \$0.00 | - | \$0.00 |
| 5A | Removal And Disposal Of Supplemental Tile - For Tile Replacement | LF | \$6.50 | "" | 6,435 | \$41,827.50 | 6,435 | \$41,827.50 |
| 6A | 24" Ø RCP Tile, Perforated - For Spot Repairs | LF | \$78.00 | ** *** | 564 | \$43,992.00 | 564 | \$43,992.00 |
| 7A | 18" Ø RCP Tile, Perforated - For Spot Repairs | LF | \$67.00 | ***, "" | 521 | \$34,907.00 | 521 | \$34,907.00 |
| 8A | 18" Ø RCP Tile Road Crossing, Perforated - For Spot Repairs | LF | \$134.50 | | 50 | \$6,725.00 | 50 | \$6,725.00 |
| 9A | 24" X 18" RCP Wye - For Spot Repairs | Each | \$600.00 | | 1 | \$600.00 | 1 | \$600.00 |
| 10A | 24" X 18" RCP Reducer - For Spot Repairs | Each | \$800.00 | * | 0 | \$0.00 | - | \$0.00 |
| 11A | Type 2 Concrete Collar - For Spot Repairs | Each | \$358.00 | * ** *** "" "" | 53 | \$18,974.00 | 53 | \$18,974.00 |
| 12A | Connection To Existing Structure | Each | \$2,000.00 | "" | 4 | \$8,000.00 | 4 | \$8,000.00 |
| 13A | Private Tile Connection | Each | \$500.00 | "" | 26 | \$13,000.00 | 26 | \$13,000.00 |
| 14A | Intake, 30" Ø Circular Area | Each | \$1,000.00 | | 5 | \$5,000.00 | 5 | \$5,000.00 |
| 15A | Intake, 12" Ø Hickenbottom | Each | \$1,100.00 | | 5 | \$5,500.00 | 5 | \$5,500.00 |
| 16A | Intake, 8" Ø Hickenbottom | Each | \$525.00 | | 2 | \$1,050.00 | 2 | \$1,050.00 |
| 17A | Cleanup, Shaping, And Permanent Seeding | LS | \$8,300.00 | | 1 | \$8,300.00 | 1 | \$8,300.00 |
| 18A | Seeding Warranty | LS | \$300.00 | | 1 | \$300.00 | 1 | \$300.00 |
| 400 | 18" Ø RCP Tile with Rock Bedding, Perforated - For Spot Repairs | LF | \$67.00 | "" | 22 | \$1,474.00 | 22 | \$1,474.00 |
| 401 | 18" X 18" RCP Wye with Rock Bedding - For Spot Repairs | Each | \$800.00 | | 1 | \$800.00 | 1 | \$800.00 |
| 402 | Type 2 Concrete Collar - For Spot Repairs | Each | \$358.00 | | 3 | \$1,074.00 | 3 | \$1,074.00 |
| 600 | 2 Year Maintenance Bond | LS | \$5,000.00 | | 1 | \$5,000.00 | 1 | \$5,000.00 |
| CO1 | Exploratory Excavation | HR | \$300.00 | ^, "" | 7.83 | \$2,349.00 | 7.83 | \$2,349.00 |
| CO2 | Septic Repair | LS | \$1,650.00 | ^^ | 1 | \$1,650.00 | 1 | \$1,650.00 |
| CO3 | Private Tile Replacement, 6" Dual Wall Tile | LF | \$9.00 | ^^^ | 350 | \$3,150.00 | 350 | \$3,150.00 |
| CO4 | 3-inch Bedding Rock | Tons | \$24.00 | " | 15 | \$360.00 | 15 | \$360.00 |
| CO5 | 12" Dia. Dual Wall HDPE Tile w/ Rock, Perforated | LF | \$241.00 | "" | 60 | \$14,460.00 | 60 | \$14,460.00 |
| Total | | | | | | \$557,587.50 | | \$557,587.50 |
| *denotes quantity adjustment made in Approved Equivalent #1 | | | | | | | | |
| ** denotes quantity adjustment made in Change Order #2 | | | | | | | | |
| *** denotes quantity adjustment made in Change Order #3 | | | | | | | | |
| ^ denotes quantity adjustment made in Change Order #5 | | | | | | | | |
| ^^ denotes quantity adjustment made in Change Order #7 | | | | | | | | |
| ^^^ denotes quantity adjustment made in Change Order #8 | | | | | | | | |
| " denotes quantity adjustment made in Change Order #9 | | | | | | | | |
| "" denotes quantity adjustment made in Change Order #10 | | | | | | | | |
| """" denotes quantity adjustment made in Change Order #12 | | | | | | | | |
| Prepared by | | | | | | | | |
| Clapsaddle-Garber Associates, Inc. | | | | | | | | |
| Marshalltown, Iowa | | | | | | | | |



Drainage Work Order Request For Repair

Hardin County

Date: 10/21/2019

Work Order #: WO00000276

Drainage District: DDs\DD 22 (51045)

Sec-Twp-Rge: 19-88-22 **Qtr Sec:** NE1/4

Location/GIS: 88-22-19-400-002

Requested By: Randy Silvest

Contact Phone: (641) 640-0171

Contact Email: _____

Landowner (if different): _____

Description: DD 22 Lat 1 - Randy Silvest stopped in to report a sinkhole in his wetland area, directly north of his house. He reports the sinkhole is 6' to 8' across and 3' deep in center of wetland area, Lat 1 runs directly through this wetland where he reports the sinkhole. He reports the sinkhole is dry and was discovered while he was mowing this past week. He requests further investigation and repair this fall, and to be contacted by Engineer.

Repair labor, materials and equipment _____

Repaired By: _____ **Date:** _____

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

For Office Use Only

Approved: _____ **Date:** _____

Drainage District:

#22 – Hardin County, IA

Hardin County Work Order: WO00000276

CGA PN: 6532.4

Investigation Summary:

- Landowner in the NE¼ of Section 19 (T88N R22W) reported a sinkhole in his wetland area nearby where he believes Lateral 1 of DD22 to run.
- Visual observation discovered a sinkhole with two locations that appeared to be taking in soil in nearby proximity to each other. CGA probed the area with a 4' tile probe and was unable to hit/locate the tile line. The sinkhole is consistent with what we would expect to find with a tile line that has a wide joint or damaged tile and is taking soil from both sides of the tile.

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

None recorded as only visual observation was performed.

Additional Actions Recommended:

We recommend this be spot repaired through the lottery process.





Drainage Work Order Request For Repair Hardin County

Date: 10/21/2019

Work Order #: WO00000276

Drainage District: DDs\DD 22 (51045)

Sec-Twp-Rge: 19-88-22 **Qtr Sec:** NE1/4

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 1215 Edgington Ave, Suite 1
 Eldora, IA 50627
 Phone (641) 939-8111
 Fax (641) 939-8245

For Office Use Only

Approved: _____ **Date:** _____



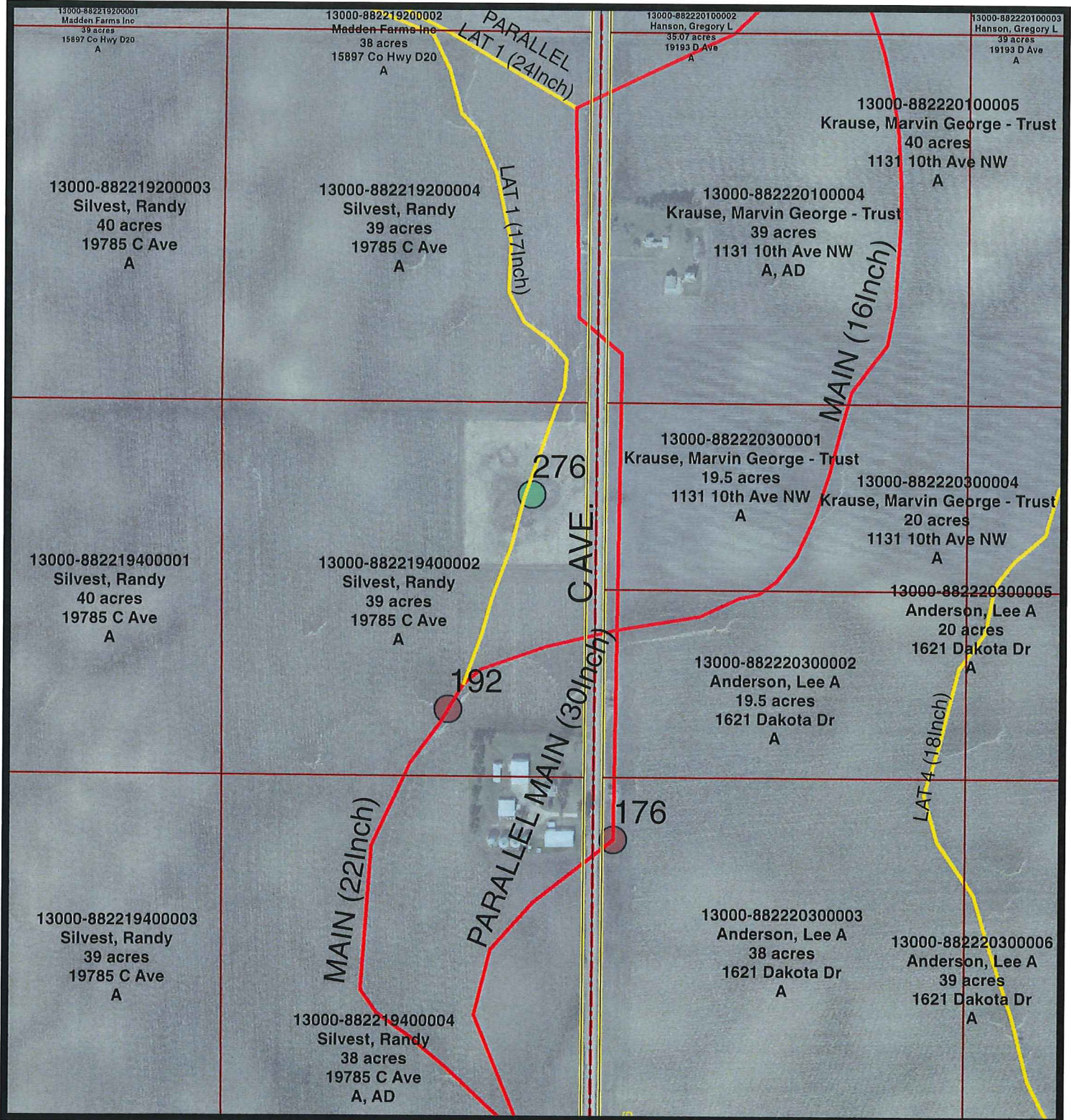
Drainage Tiles

- Lateral
- Main
- Open Ditch
- Private Tile

Hardin County Auditor's Office



Date: 10/21/2019



The Data is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, timeliness, merchantability and fitness for or the appropriateness for use rests solely on the requester. Hardin County makes no warranties, express or implied is to the use of the Data. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts the limitations of the Data, including the fact that the Data is dynamic and is in a constant state of maintenance, correction and update. Cadastral Data represents land ownership, but does not define it. This Data does not replace a legal survey.

Inspector's Project Diary

| | | | |
|---|---|---|--|
| Project: <u>6532.4</u> | | | |
| CGA PN: | Days Charged: | Report No. | Proj. Mgr. <input checked="" type="checkbox"/> |
| Contractor: | | Date: <u>12/11/19</u> | |
| Superintendent: | Weather Conditions: <u>CLEAR, SNOW FRESH</u> | Precip.: <u>2"</u> | Temp. Hi: ° Temp. Low: ° |
| INSPECTOR: Time Arrived: <u>3:00</u> Time Left: <u>3:15</u> | | Contractor: Time Arrived: 3:00 Time Left: | |
| <p>1. General Remarks and Work Accomplished:</p> <p><u>DRIVE UP TO MARKED BLOW-OUT IN CRP FIELD N. OF RANDY SYLVESTER HOUSE. FOUND DOUBLE BLOW-OUT, PROBABLY CAUSED BY WIDE JOINT IN TIE. PROBES DOWN 4' IN BOTH HOLES, DIDN'T HIT TIE. SHOT BLOW OUT #879 ON LAT 1, USE JOB #6532.3 DD22 REPAIR ASP, ACCESS @ NE CORNER OF FIELD ON "C" AVE.</u></p> | | | |
| 2. Changes or Extra Work Ordered: | | | |
| 3. Test Samples Taken: | | | |
| 4. Visitors to Site: | | | |
| 5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done: | | | |
| 6. Attachments (total sheets attached <u>0</u>): | | | |

LOOKING SOUTH (O) BLOW-OUT WITH RANDY -> LUREST HOUSE IN DARK GROUND



FILED

Hardin County Drainage Claim for Damages

Combined

APR 22 2020

Claim # 2020-5 District # 00 22 Work Order # 176 + 192

Township Buckeye Section 30 Twp 88 Rge 22

HARDIN COUNTY AUDITOR

Parcel Tax IDS 88 22 30 200002

Name Terry Swenson

Address 13797-220th St
Radcliffe, IA 50230

Phone 515 669 3483

Email Address tswen@gmail.com

Landowner (if different) Dave and Annette (loger) Swenson

Claim Type: Crop Damage

Crop Year 2019 Crop Year _____

Type of Crop corn Type of Crop _____

Acres Damaged 3 # Acres Damaged _____

Yield Per Acre 200 Yield Per Acre _____

Fence Damage

Outlet Damage

Other: _____

Desired Compensation - Please note if payment should be split between landlord/tenant.

Monetary Payment payment to tenant only

Repair of Damages

Other: _____

Claimant Signature Terry D Swenson Date 4-10-20

For Office Use Only

Unit Value \$ 3.90 /bushel Unit Value \$ _____ /bushel

Crop Damages (Verified Acres X Yield X Unit Value) \$ _____ \$ _____

Total Amount Approved \$ _____

Approved Signature _____ Date _____

Main Tile Repairs – Drainage District No. 22

Hardin County, Iowa

2018-2020

Crop Damage

Crop damaged was incurred by 5 property owners on this project. Crops impacted were beans and corn. The following table shows which property owners were impacted, which type of crops were impacted, and the number of acres impacted:

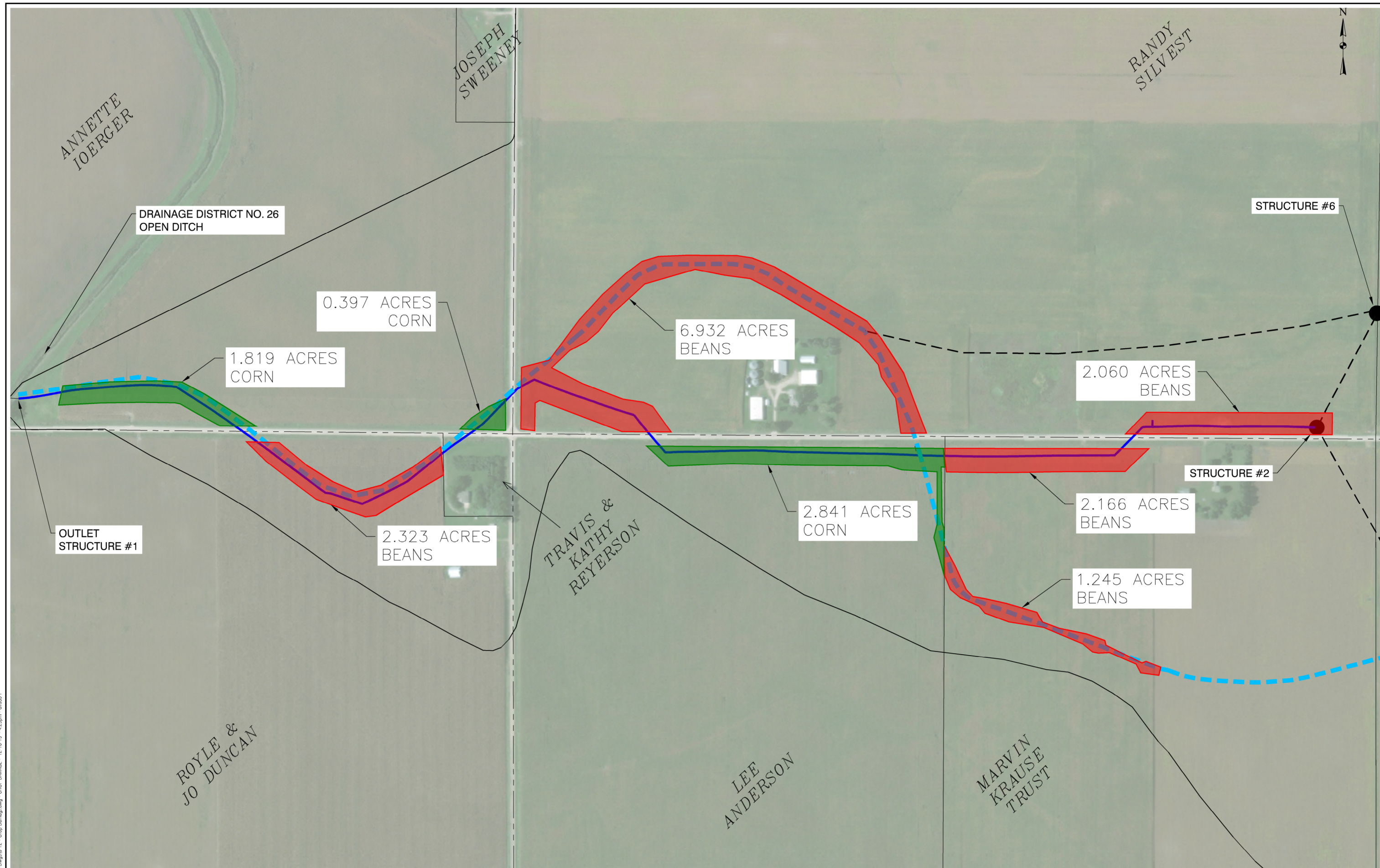
| Property Owner | Corn Damage (Acres) | Bean Damage (Acres) |
|---------------------|---------------------|---------------------|
| Annette loerger | 2.216 | |
| Royle & Jo Duncan | | 2.323 |
| Randy Silvest | | 8.992 |
| Lee Anderson | 2.841 | |
| Marvin Krause Trust | | 3.411 |

An exhibit showing the areas of the loss of crops is attached.

Respectfully Submitted,

Heather Ann Thomas 04/28/20

Heather Ann Thomas, PE



DRAINAGE DISTRICT NO. 26
OPEN DITCH

STRUCTURE #6

0.397 ACRES
CORN

6.932 ACRES
BEANS

1.819 ACRES
CORN

2.060 ACRES
BEANS

OUTLET
STRUCTURE #1

2.323 ACRES
BEANS

TRAVIS &
KATHY
REYERSON

2.841 ACRES
CORN

STRUCTURE #2

2.166 ACRES
BEANS

1.245 ACRES
BEANS

ROYLE &
JO DUNCAN

LEE
ANDERSON

MARVIN
KRAUSE
TRUST

J:\8712\Record Drawings\8712 - Crop Damage.dwg - Crop Damage.dwg - 12-16-19 - 4:29pm - GJL051



| NO. | REVISION | BY | DATE | NO. | REVISION | BY | DATE |
|-----|----------|----|------|-----|----------|----|------|
| | | | | | | | |
| | | | | | | | |

CGA
Clapsaddle-Garber Associates, Inc.
739 Park Avenue
Ackley, Iowa 50601
Phone: 641-947-3273
www.cgaconsultants.com

DESIGNED: #### DATE: ####
DRAWN: #### DATE: ####
CHECKED: #### DATE: ####
APPROVED: #### DATE: ####

MAIN TILE REPAIRS - DD #22
HARDIN COUNTY, IOWA

CROP DAMAGE

PROJECT NO.
8712
SHEET NO.
A.04



Drainage Work Order Request For Repair

Hardin County

Date: 7/3/2018

Work Order #: WO00000215

Drainage District: Drainage Districts \DD 52 (51078)

Sec-Twp-Rge: 33-87-21 **Qtr Sec:** NE

Location/GIS: 87-21-33-276-004

Requested By: Tracy Below

Contact Phone: (641) 485-3396

Contact Email: _____

Landowner (if different): Piel Manufacturing Co

Description:

DD 52 Lat 3 - Tracy Below spoke with County Engineer, Taylor Roll, that water is boiling out of the intake west of apartments. The area is under water and he is losing his hay crop. Please call him with updates and keep him in the loop.

Repair labor, materials and equipment: _____

Repaired By: _____ **Date:** _____

Please reference work order # and send statement for services to:

Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Phone (641) 939-8111
Fax (641) 939-8245

For Office Use Only

Approved: _____ **Date:** _____

Drainage District:

#52 Lateral 3

Investigation/Repair Summary:

- During previous investigation in the NE¼ of Section 33, Township 87 North , Range 21 West, it was determined that removing the roots and replacing a stretch of the existing tile at its current location was insufficient to ensure a long-term solution to the root infiltration as a result of close proximity to the Aus trees.
- Per the recommended actions of the previous investigation summary, the trees and woody brush were cut down. Some of said stumps were chipped, while others were not. However, sprouts on these stumps showed signs of reemergence and regrowth.
- The woody brush and limbs that were felled had been stacked/pushed to the east side of the building, but had not been removed from the site. Some of these branches also showed signs of reemergence and regrowth.
- None of the tree stumps or woody brush showed signs of having been treated with stump killer to prevent reemergence and regrowth.

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

None recorded as CGA was not on-site when work was performed.

Additional Actions Recommended:

- All stumps of trees and woody brush needs to be treated to prevent regrowth immediately.
- At the direction of the Trustees, the remaining brush needs to be removed from site or burned on-site.
- Repair affected tile in the area as needed.
- Area may need to be sprayed to kill additional regrowth.



Inspector's Project Diary

| | | | |
|--|---|---|---|
| Project: <u>DD 52 HAROIN</u> | | | |
| CGA PN: <u>5212.L</u> | Days Charged: <u>NA</u> | Report No. <u>1</u> | Proj. Mgr. <input checked="" type="checkbox"/> |
| Contractor: <u>NA</u> | | Date: <u>9/27/19</u> | <u>LEE GAUNTINE</u> |
| Superintendent: | Weather Conditions: <u>Cloudy, RAIN</u> | Precip.: <u>TRACE "</u> | Temp. Hi: <u>70 °</u> Temp. Low: <u>59 °</u> |
| INSPECTOR: Time Arrived: <u>12:00 NOON</u> Time Left: <u>12:20</u> | | Contractor: Time Arrived: <u>NA</u> Time Left: <u>NA</u> | |
| <p>1. General Remarks and Work Accomplished:</p> <p><u>ARRIVED @ DD52 @ QUANSET BLDG. SITE THAT WAS SURROUNDED BY AUSTREES. TREES HAD BEEN CUT DOWN, SOME EASTERLY STUMPS HAD BEEN CHIPPED WITH STUMP GRINDER. NO VISIBLE EVIDENCE OF TREE HERBICIDE USED TO KILL ROOTS. SOME TREES HAD 6" SPROUTS COMING OUT OF REMAINS OF TREES. ALSO LIMBS LEFT ON GROUND HAD SPROUTED AND STARTING TO ROOT. AUSTREES ARE VERY AGGRESSIVE AND HEARTY AND TAKE LOTS OF POISON TO KILL. TREE LOGS AND TOPS ARE PUSHED UP EAST OF QUANSET BLDGS.</u></p> <p><u>ACTION: ① POISON ALL STUMPS AND NEW GROWTH AND PICK UP ALL LIMB LOGS AND STICKS.</u></p> <p><u>② REPAIR TILE IN HAY FIELD</u></p> | | | |
| 2. Changes or Extra Work Ordered: | | | |
| 3. Test Samples Taken: | | | |
| 4. Visitors to Site: | | | |
| 5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done: | | | |
| 6. Attachments (total sheets attached <u>0</u>): | | | |

Sprouts on Stumps



SPROUTS ON TREE STUMPS



NEW AUSSIE TREE GROWING



E-W TREE LINE WITH CHIPPED AND MANGLED STUMPS



NEW AUSSTREEE GROWING NEXT TO 2x4 WOOD



6" sprouts on stumps



WESTERLY STUMPS 1' HIGH, SPROUTING



LIMB LOG NEXT TO HAYFIELD SPROUTING



WINDOW OF TOPS



Window of Tops



BIG WINDROW OF TREE BUTTLOGS AND TOPS



LOOKING N. DOWN E. PROP LINE, OR TREE LINE



TREE STARTING TO GROW AGAIN



LIMS LOG SPROUTING AND ROOTING down



LIME LOG BY HAYFIELD STARTING TO TAKE ROOT



NEW AUSTREE SPROUT



LOOKING N. DOWN E. SIDE QUANSET BLOGS.





Drainage Work Order Request For Repair

Hardin County

Date: 7/3/2018

Work Order #: WO00000215

Drainage District: Drainage Districts \DD 52 (51078)

Sec-Twp-Rge: 33-87-21 **Qtr Sec:** NE

Location/GIS: 87-21-33-276-004

Requested By: Tracy Below

Contact Phone: (641) 485-3396

Contact Email: _____

Landowner (if different): Piel Manufacturing Co

Description:

DD 52 Lat 3 - Tracy Below spoke with County Engineer, Taylor Roll, that water is boiling out of the intake west of apartments. The area is under water and he is losing his hay crop. Please call him with updates and keep him in the loop.

Repair labor, materials and equipment: _____

Repaired By: _____ **Date:** _____

Please reference work order # and send statement for services to:

Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Phone (641) 939-8111
Fax (641) 939-8245

For Office Use Only

Approved: _____ **Date:** _____

Drainage District:

#52 Lat 3

Repair Summary:

- After the removal of the Aus trees, whose roots affected drainage of the Lateral 3 tile in the NE¼ of Section 33, Township 87 North, Range 21 West, the repair to the damaged tile in the area was able to be completed.
- Excavated at repair location as identified on previous report where roots had impacted drainage, removing soil within existing trench (where tile was previously removed) along with additional 12-inch single wall HDPE tile that was found to be damaged. Soil that had infiltrated into the Lateral 3 tile (while the excavation was left open) was manually removed. Roots were not found in the original tile in either direction of the repair areas.
- Due to landowner concerns about lack of drainage with non-perforated tile, the non-perforated dual wall HDPE was manually perforated to allow groundwater infiltration into the tile prior to installation.
- Lateral 3 tile was repaired with rock bedding and backfill, 12-inch dual wall HDPE, and 3/4 concrete collars at connections to original tile. An 8-inch VCP private tile encountered during the repair was connected to the Lateral 3 tile with an 8-inch single wall HDPE tile, split band couplers, HDPE Tee and concrete collars at the connections.
- All excavations were filled with on-site soil.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

Additional grading may need to be completed once the freeze-thaw cycle has occurred. Also, the contractor and landowner should be contacted to coordinate seeding within the repair area.



Tabulated Contractor Time and Materials

| Date | Totals | 12/5/2019 | 12/6/2019 | 12/12/2019 | 12/13/2019 | 12/14/2019 |
|-------------------------------|--------|-----------|-----------|------------|------------|------------|
| Workman (hrs) | 62 1/2 | 1 | 7 1/2 | 8 | 26 | 20 |
| Mini Excavator (hrs) | 46 1/2 | | 5 | 7 | 21 | 13 1/2 |
| Tracked skidloader (hrs) | 24 1/2 | | 5 | 1 | 10 1/2 | 8 |
| 1" Clean Bedding Rock | Yes | | | | | |
| Concrete Collars | Yes | | | | | |
| 12" Dual Wall HDPE Tile (ft) | 98 | | | | 86 | 12 |
| 12"x12"x8" HDPE Tee (ea) | 1 | | | | 1 | |
| 12" Split Band Coupler (ea) | 4 | | | | 3 | 1 |
| 8" Single Wall HDPE Tile (ft) | 6 1/2 | | | | 6 1/2 | |
| 8" Split Band Coupler (ea) | 1 | | | | 1 | |

Drainage District:

#26 Lateral 4

Investigation Summary:

- Tenant in SW¼ NW¼ Section 20, Township 88 North, Range 22 West reported wet spot in field and stated he had been farming for 25 years and the reported wet area had not been a problem spot until the 2010/2011 project when the Supplemental Lateral 4 tile was constructed.
- CGA visually searched area and found a wet spot with standing beans that measured approximately 0.3 acres. The location is just west of the Supplemental Lateral 4 tile that was installed, as shown on the attached map.
- CGA searched as-built files from the Supplemental Lateral 4 tile and found that no private tile was recorded or connected to the Supplemental Lateral 4 tile in this area at the time of construction.
- CGA reviewed historical photos of this area from 1971-2017 (attached) and noted that the wet spot first appeared on aerial photography in the spring of 2016. It also appeared in aerial photos from 2017 and was visually confirmed in the field in 2018. No observable wet spots were there in prior years including the reviewed 2013, 2014, and 2015 aerials.
- On-site visual inspection, reviewing historical aerials, and reviewing as-built information was unable to determine the cause for the wet spot; however, confirmed its presence.
- CGA considers it a possibility that a private tile didn't get hooked up during the 2011 project. Aerial photography doesn't show any resulting wet spots until a few years later which we would typically expect to show up sooner after construction. Tile witching is not conclusive investigation and has been known to have false positive readings in areas where water may have established subsurface drainage paths without tile; however, CGA field staff did indicate crossing witching wires at the northwest edge of the wet spot.

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

None, as only visual observation was performed.

Additional Actions Recommended:

We recommend sharing these findings with the landowner / tenant and asking if they have any knowledge of a private tile in this area. If they do, we recommend that the private tile be connected to the Supplemental Lateral 4 tile.

If landowners have no knowledge of private tile in the area, we recommend the District Trustees' consider the following options:

- Excavate said wet spot to identify source of water and connect private tile, if found. If no private tile is found, it may be possible that the surface was not put back to pre-construction topography and there could be a hump trapping surface water from draining to the area directly or nearly above the original tile. Pre-construction subsurface drainage patterns were disrupted and may not have reestablished themselves.
- Continue to monitor the area to see if the wet spot persists next year or the site begins to form subsurface drainage paths that may have been disturbed / interrupted by construction.



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

12/14/18

DAYS OF WEEK:

S | M | T | W | T | **F** | S

PROJECT NUMBER:

8719 5055 !!

COUNTY, ROUTE, ROAD:

DD 26, LAT 4

LOCATION:

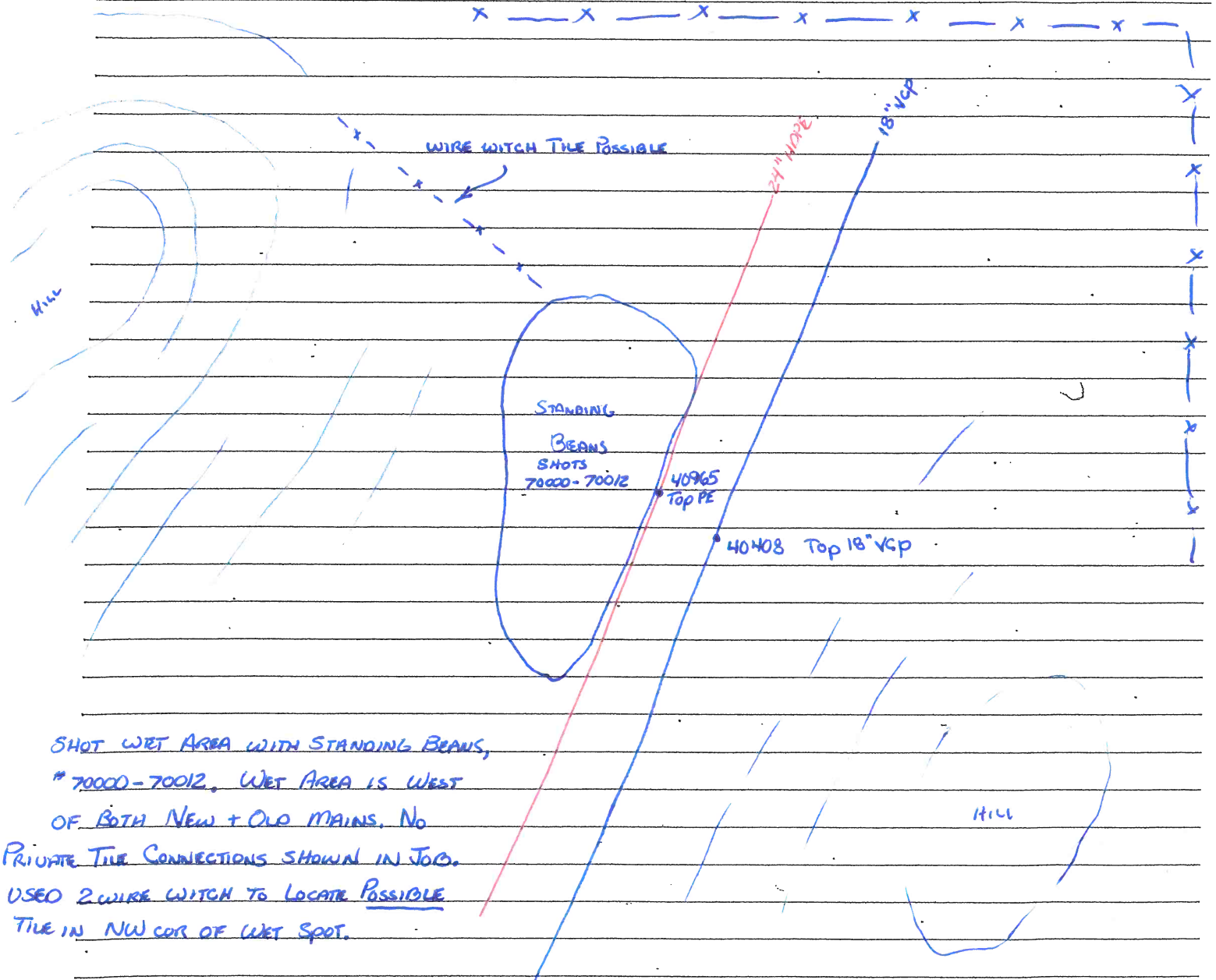
E. OF HOUSE #19414 ON "C" AVE.

SHEET NO.

OF

SUNNY, CALM, 38°, MELTING SNOW, FROZEN DIRT.
⊕ 26008 IN JOB 5055 DD26

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



SHOT WET AREA WITH STANDING BEANS,
70000-70012. WET AREA IS WEST
OF BOTH NEW + OLD MAINS. NO

PRIVATE TILE CONNECTIONS SHOWN IN JOB.
USED 2 WIRE SWITCH TO LOCATE POSSIBLE
TILE IN NW COR OF WET SPOT.

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

Observer's Signature:

[Signature]
Heather Ann Thomas

Date Prepared:

12/14/18

Reviewed by:

Engineer

Date Reviewed

12/24/18

LOOKING WEST @ WET SPOT (ACREAGE IN BACKGROUND ON "C" AVE)

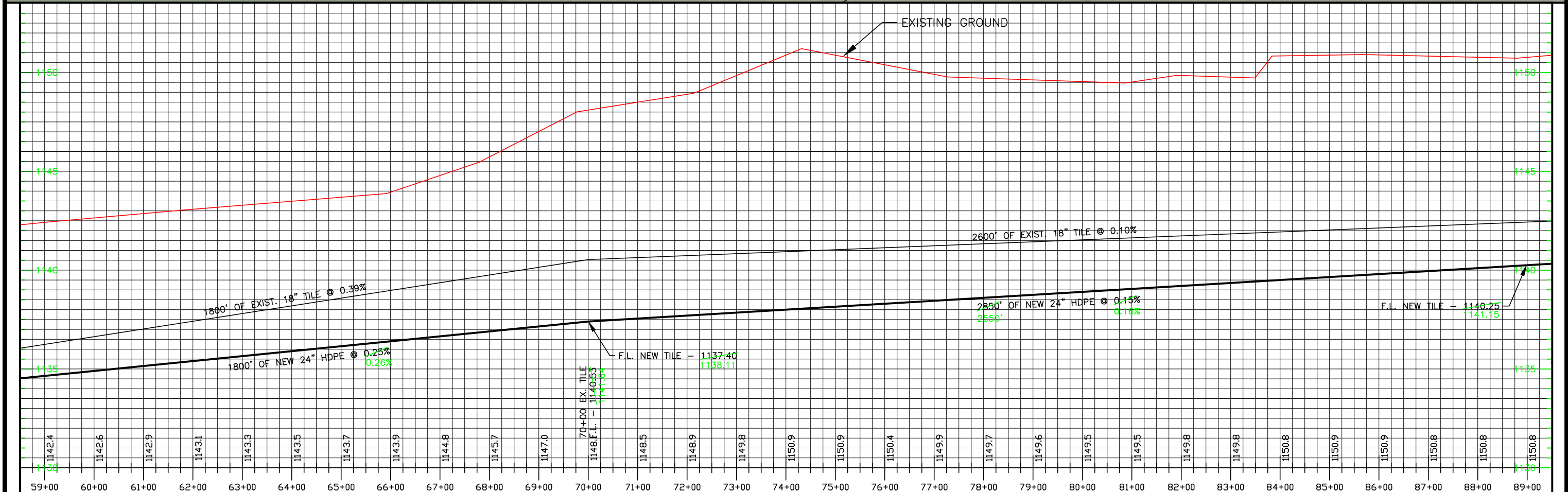
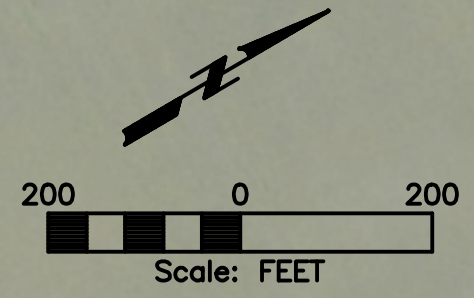


LOOKING SOUTH @ WET SPOT



LOOKING EAST @ WET SPOT





| | | |
|----------------|-----------------------|-----------------------|
| DRAWN BY: RLY | APPROVED BY: XXX | REVISIONS: 03-02-2011 |
| DATE: 01-28-11 | PROJ. NO.: PXXXX-XXXX | |
| FIELD BK: XXX | DWG.: | |

RE RYKEN ENGINEERING
 ACKLEY, WEBSTER CITY, & MASON CITY, IOWA

ADDRESS:
 711 PARK AVENUE, ACKLEY, IOWA 50601
 PH 641-847-3273 FAX 641-847-2303

PROJECT:
 DD #26 LATERAL 4
 DRAINAGE DISTRICT IMPROVEMENTS
 HARDIN COUNTY, IOWA 2011

SHT. NAME:
 PLAN & PROFILE

SHT. NO.:
 5 of 10




1971 July

1983 May



A black and white astronomical image showing a dense field of stars. The stars are of varying brightness and are scattered across the frame. A yellow oval is drawn around a star in the lower right quadrant. The image has a grainy texture and some faint lines, possibly from the scanning process or the original print. In the bottom left corner, there is a red text label.

1994 April



2002 Spring - Infrared

This is an infrared astronomical image showing a field of stars. The stars appear as bright points of light against a dark background. A yellow oval highlights a specific star in the lower right quadrant of the image. The image is divided into several rectangular panels by dark lines, suggesting it is a mosaic of smaller images. There are some faint, diffuse structures visible, possibly nebulae or interstellar dust clouds. A small white star is visible in the lower right panel, below the yellow oval. The overall color palette is dominated by dark blues, greys, and purples, typical of infrared light.

2004 Summer



2005 Summer



2006 Summer

Handwritten text on a small label, possibly including a date or identifier, partially obscured by the binding.



2007 Summer



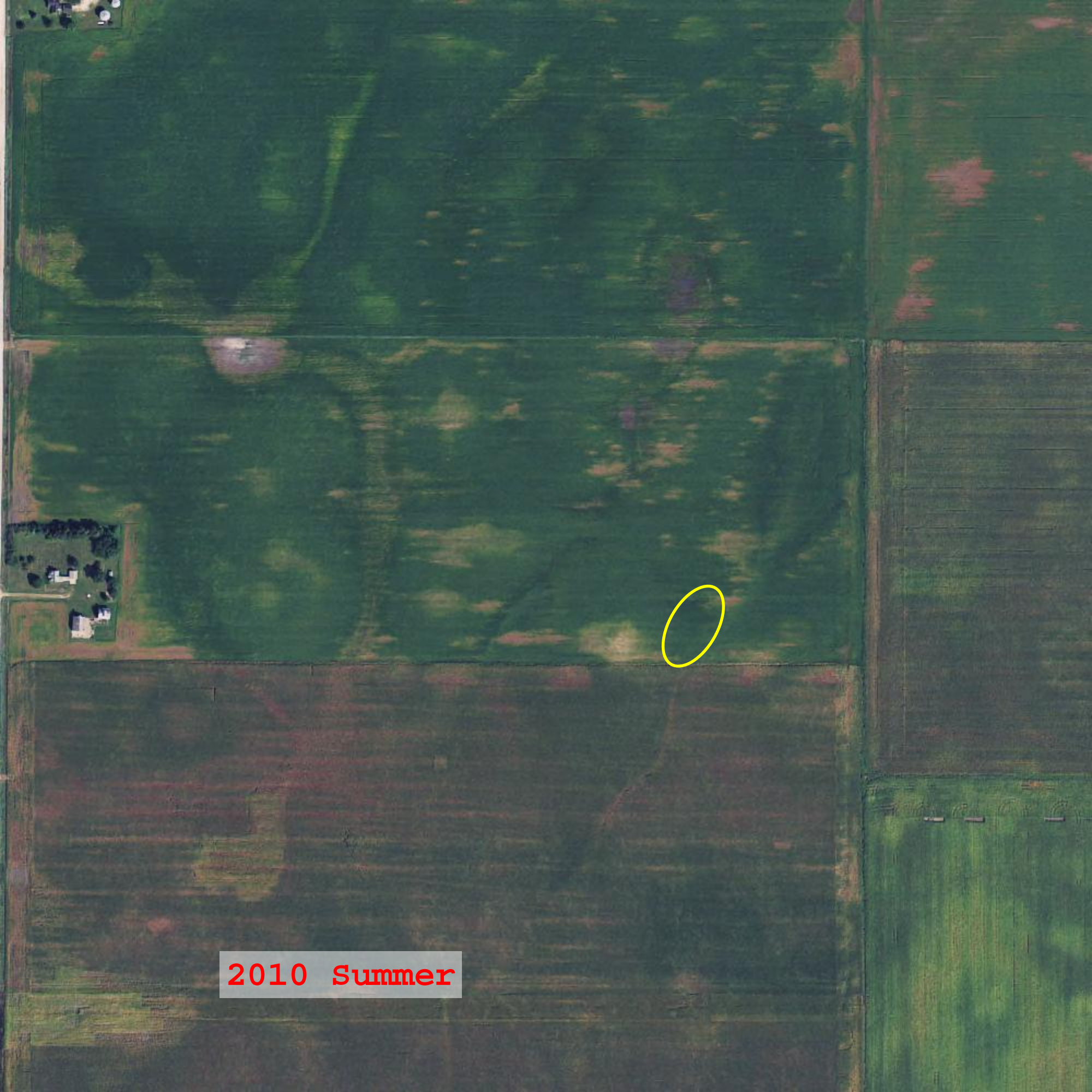
2007-2010 Spring



2008 Summer



2009 Summer




2010 Summer



2010 Summer - Infrared



2011 Summer

An aerial infrared photograph of a field. The image shows a large rectangular field with a yellow oval highlighting a specific area in the lower right quadrant. The field is divided into several sections by a network of roads and paths. The color palette is dominated by shades of red and orange, with some green and blue areas. A yellow oval is drawn around a small, dark, irregularly shaped area in the lower right section of the field. The text "2011 Summer - Infrared" is overlaid in the bottom left corner.

2011 Summer - Infrared



2013 Summer



2013 Summer - Infrared



2014 Summer



2014 Summer - Infrared



2015 Summer



2015 Summer - Infrared



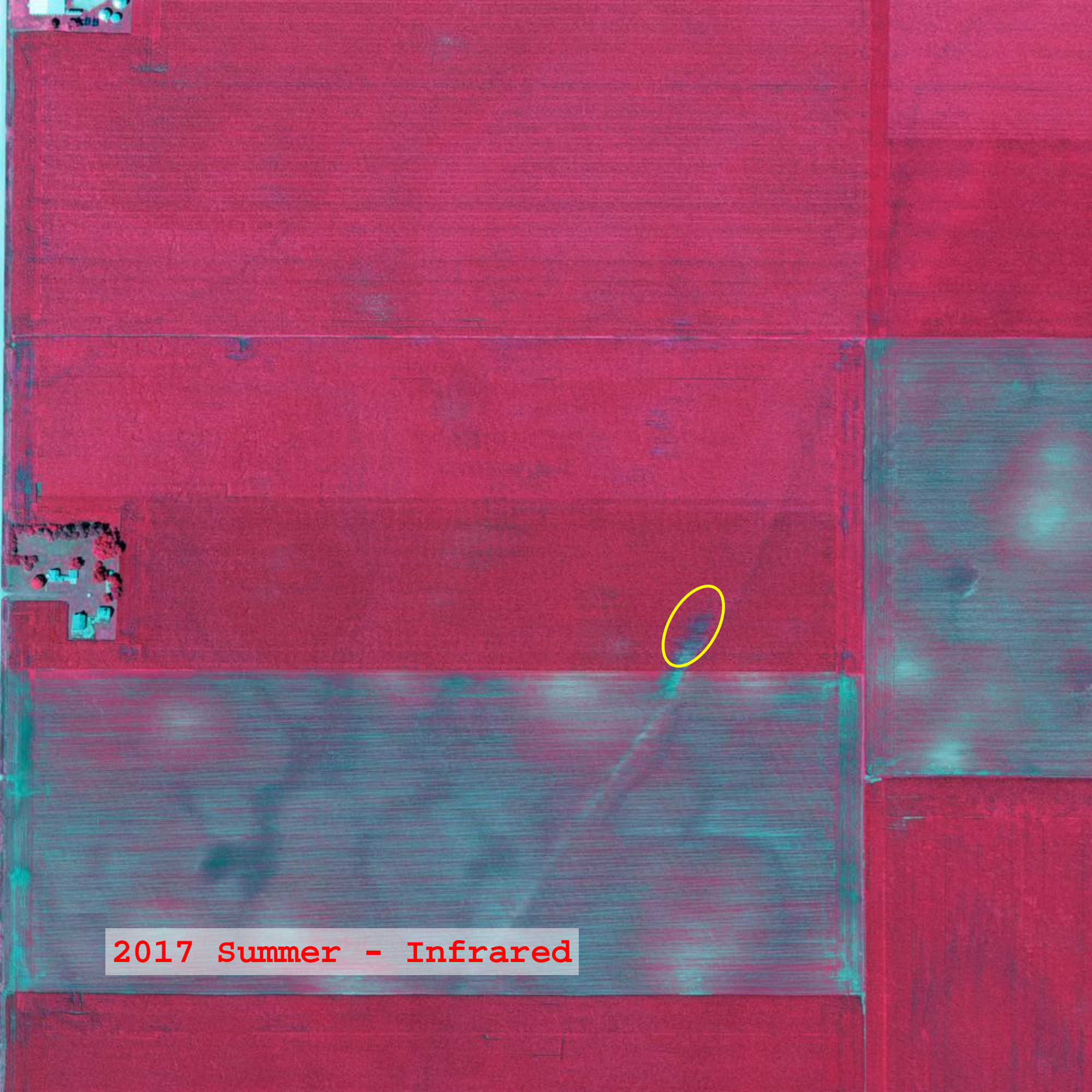
2016 Spring



2016 Spring - Infrared



2017 Summer



2017 Summer - Infrared



Hardin County Drainage
 Drainage Districts \DD 26 (51049)\DD 26 Lat 4 (51050)
 WO00000082

Work Order Detail

Begin Date: 5/27/2015
Status: On Hold - On Hold
Description: Tile problem on 190th between C & D Avenues. Paul would also like to look at the option of extending the old tile out from the manholes. (Combined with original WO81 also.)

Requested By: Randy Silvest / Jim Vierkandt
Email: Randy (641) 640-0171
Phone: (515) 689-4737
Landowner: Lee Anderson
GIS # 88-22-20-300-003
Sec-Twp-Rge: 20-88-22

Expenses:

| Date | ExpenseCode | Vendor | Description | Amount |
|---------------|-------------|----------------------|----------------------------------|-------------------|
| 8/7/2015 | Engineering | Ryken Engineering Co | 8/7/2015 DD 26 LAT 4 ENGINEERING | \$1,146.25 |
| 8/7/2015 | Engineering | Ryken Engineering Co | 8/7/2015 DD 26 LAT 4 ENGINEER | \$465.00 |
| Total: | | | | \$1,611.25 |

Contract/Estimate:

| Description | Amount |
|-------------|--------|
|-------------|--------|

Notes:

Note

6/3/15-BOS approve to CCTV as fall project when crops are out. Tina to contact Paul of decision.

BOS agreed to follow up when Don Etler's investigation is complete. A landowner information meeting will be held at that time to discuss both items. This is considered an improvement & trustees want landowner input...

6/4/15-Tina spoke with Paul. Ok with waiting until fall.

7/2/15-Working on engineers report.

7/29/2015-Landowners request to install perm access pts for future CCTV inspections & maintenance. Engineers opinion that this would be considered a repair and not an improvement. A 24" intake is adequate to CCTV equip to access. If Trustees want, CCTV could be performed between structures 1 & 2. Summary shows 2 different methods. #1 estimated at \$1,000-\$2,000. #2 estimated at \$4,000-\$5,000. If manholes installed, estimated at \$8,000-\$10,000.

8/5/15-BOS agree to table any actions until discussed with landowners during their information meeting and once Don Etler's investigation report is done.

12/9/15-BOS approve Williams Excavation & Howe Sanitation to CCTV while out in the area for DD 22. Etlers prelim opinion to wait and see if new tile will be installed. Paul concerned that this could take years while he has poor drainage. Etler to examine Ryken Engineer Report and will notify Trustees of final opinion.

10/11/17-BOS set landowner meeting for 10/25/17 at 1:00 pm.

6/10/15-BOS approve Ryken to prepare engineers report for improvements to re-connect old tile from manholes along 190th. The report will be discussed at Don Etler's information meeting. The BOS also asks Lee to seek legal advice re: installing manholes every 2000' also requested by Peterson, to see if should handle as repair or improvement and how to proceed. Lee also to prepare cost estimated to install these manholes.

12/15/15-Etler submitted recommendation.

12/23/15-BOS accepted report. No action taken.

8/8/18-Paul Peterson requested proj be put on hold. Thomas stated that calculations have been performed but no formal report. Est'd approx \$1,200 has been charged but not billed & to complete the report would cost add'l \$3,000. Tile is flowing and working. BOS agree to place proj on hold & not do report until landowners request.

12/4/18-Randy Silvest stated east of the hill (east of Marvin Krause's place GIS 882220100005), there has been a wet spot. He's been farming it for 25 years and never had a problem until the 2010/2011 project. He would like it looked at.



Drainage Work Order Request For Repair

Hardin County

Date: 4/28/2020

Work Order #: WO00000293

Drainage District: DDs\DD 68 (51098)

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

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

Requested By: Nick Hoversten

Contact Phone: (515) 290-5806

Contact Email: _____

Landowner (if different): Thielke Farms

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

Repair labor, materials and equipment: _____

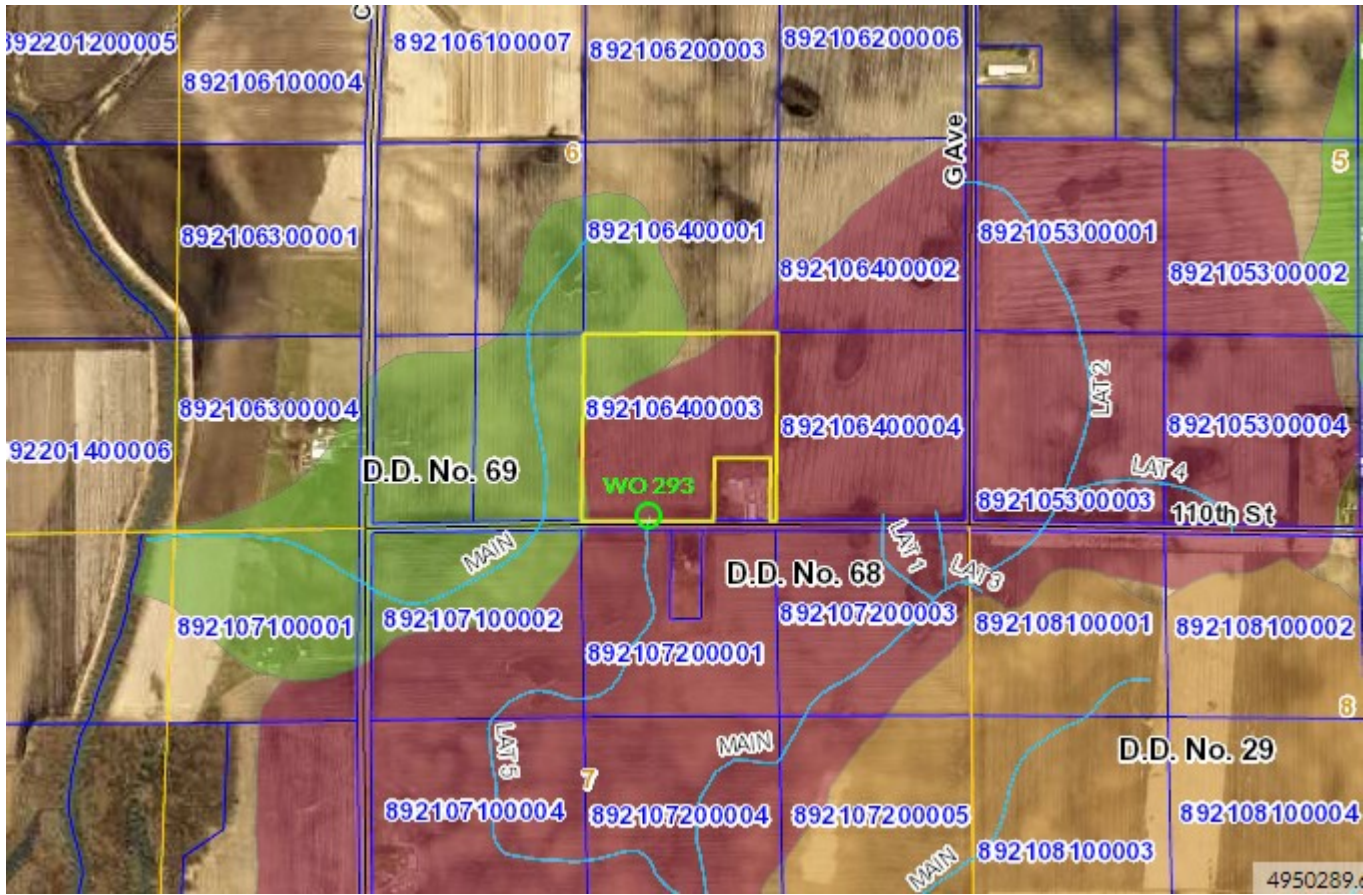
Repaired By: _____ **Date:** _____

Please reference work order # and send statement for services to:

Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Phone (641) 939-8111
Fax (641) 939-8245

For Office Use Only

Approved: _____ **Date:** _____





Drainage Work Order Request For Repair

Hardin County

Date: 4/28/2020

Work Order #: WO00000292

Drainage District: DDs\Big 4 Main (51193)

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

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

Requested By: Nick Hoversten

Contact Phone: (515) 290-5806

Contact Email: _____

Landowner (if different): _____

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

Repair labor, materials and equipment: _____

Repaired By: _____ **Date:** _____

Please reference work order # and send statement for services to:

Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Phone (641) 939-8111
Fax (641) 939-8245

For Office Use Only

Approved: _____ **Date:** _____

