

**AGENDA
REGULAR DRAINAGE MEETING
DECEMBER 5, 2018
12:00 NOON**

1. Open Meeting
2. Approve Agenda
3. Approve Minutes
November 28, 2018 Regular Drainage Meeting

Documents:

[11_28_2018 - DRAINAGE MINUTES.PDF](#)

4. DD 41 - Discuss, With Possible Action, Investigation Summary Of Request For Acres Of Watershed Boundary Parcels

Documents:

[6682.2_INVESTIGATION_SMMARY_2018_12_03.PDF](#)

5. DD 52 - Approve Petition To Expand Right Of Way

Documents:

[PETITION TO EXPAND RIGHT OF WAY OF DRAINAGE DISTRICT.PDF](#)

6. DD 55-3 Lat 9 - Discuss, With Possible Action, Investigation Summary For Work Order #224

Documents:

[DD55-3LAT9WO224.PDF](#)

7. DD 143 - Discuss, With Possible Action, Investigation Summary For Hearing Action Items

Documents:

[DD143-HEARING_ACTION_ITEMS.PDF](#)

8. DD 148 - Discuss, With Possible Action, Repair Summary For Work Order #211

Documents:

[DD148WO211-2018-12-3.PDF](#)

9. DD 148 - Approve Engineer's Report On Repairs To Open Ditch

10. DD 26 - Discuss, With Possible Action, Utility Permit #2018-13 With Radcliffe Telephone

Documents:

[5055.1_INVESTIGATION_SUMMARY-2018_12_04.PDF](#)

11. DD 124 - Discuss, With Possible Action, Investigation Summary For Utility Permit #2018-8

Documents:

[DD124PERMIT2018-8.PDF](#)

12. DD H-F 1 - Discuss, With Possible Action, Investigation Summary For Utility Permit #2018-10

Documents:

[5166.4_INVESTIGATION_REPORT_2018_12_03.PDF](#)

13. Other Business
14. Adjourn Meeting

REGULAR DRAINAGE MEETING

11/28/2018 - Minutes

1. Open Meeting

Hardin County Board of Supervisor Chairman, BJ Hoffman, opened the meeting. Also present were Supervisors, Lance Granzow and Renee McClellan; Hardin County Attorney, Darrell Meyer; Contractor, Jacob Handsaker with Hands On Excavating; Lee Gallentine with Clapsaddle-Garber Associates (CGA); Drainage Clerk, Tina Schlemme.

2. Approve Agenda

McClellan moved, Hoffman seconded to approve the agenda as presented. All ayes. Motion carried.

3. Approve Minutes

McClellan moved, Hoffman seconded to approve the minutes of the November 14, 2018 regular drainage meeting. All ayes. Motion carried.

4. Approve Claims For Payment

McClellan moved, Hoffman seconded to approve the claims for payment with pay date of Friday, November 30, 2018. All ayes. Motion carried.

DD H-S 3-58 Assessments 2018	Story County Auditor	\$ 943.90
DD H-H 1-103 ASSESSMENTS 2018	Hamilton Co Auditor	\$ 781.00
DD H-F 4-53 ASSESSMENTS 2017	Franklin Co Auditor	\$ 6.00
DD 22 ENG SVCS 9/15-10/20/18	Clapsaddle-Garber Assoc	\$ 660.00
DD 55-3 LAT 9A WO 29 ENG FEES	Clapsaddle-Garber Assoc	\$ 544.65
DD 136 WO 146 POSTAGE	Hardin County Auditor	\$ 7.98
DD 25 CANCEL CONTRACT BONDING COSTS	Farm Tile Pro LC	\$5,336.00
DD 52 Legal Advice for filing petition	The Davis Brown Law Firm	\$ 57.00
DD 148 WO 211 Repair	R D Customs LLC	\$ 967.00

5. DD 41, 77, 123, 128, 143 & Big 4 Main - Approve Change Order #2

Hoffman stated there were concerns with Hands On completing some municipal projects and not working on the contracted drainage projects to meet the deadline. Handsaker replied that due to the weather, they were only able to work on the municipal projects because they were rock surfaces. They completed the streets and waterway drainage projects but did not get the excavator work done due to wet soil conditions. He added that they were hoping to get it done yet this winter or early spring. McClellan moved, Hoffman seconded to approve Change Order #2 for a time extension from November 30, 2018 to May 1, 2019. All ayes. Motion carried.

6. DD 48 - Approve Work Order Request #237

McClellan moved, Granzow seconded to approve Work Order Request #237 for an outlet problem in section 23-88-21. CGA is to investigate and report back. All ayes. Motion carried.

7. DD 21 - Approve Work Order Request #239 For Reclassification

McClellan moved, Granzow seconded to approve Work Order Request #239 for a reclassification to result as discussed at the June 13, 2018 regular drainage meeting. All ayes. Motion carried.

8. DD 9 - Discuss, With Possible Action, Updates To Work Order #229

Gallentine presented a few problems discovered: 1) Trees in the RR right of way with some water flow on the south track crossing of the main tile. 2) A sinkhole in/near RR right of way with fiber optic warning tape in hole. Tile 1/2-3/4 full of dirt and rock and no water flow on the north track crossing of the main tile. 3) A sinkhole in field with tile 1/4-1/2 full of dirt and sand and some water flow on the main tile east of tracks. A couple options were discussed, both being over \$50,000. McClellan moved, Granzow seconded for CGA to prepare an engineer's report. All ayes. Motion carried.

9. Discuss, With Possible Action, Drainage Clerk Position

Much discussion was had regarding changing the drainage clerk position to a full-time position under the Board of Supervisors. Meyer submitted Code of Iowa sections pertaining to drainage clerk position. After many ideas were discussed, the Trustees agreed for Meyer to draft an agreement between the Auditor and the Board. The position will begin January 1, 2019 and the clerk will then track all time spent on drainage districts, which will be assessed to the districts annually based off of the calendar year. The current budget will be used for January 1, 2019 to June 30, 2019 and then 100% of the salary will be taken out of a new line item under the Board from the general fund and will be reimbursed when assessments are collected (first collecting in 2020). The Trustees understood that the salary would not be 100% reimbursed due to general administrative duties.

10. Other Business

DD 55-3 Lat 12 - Schlemme updated the Trustees that the Notice of Repair Across Railroad Right-of-Way was mailed to the UPRR on September 27, 2018, giving them 30 days notice. Granzow moved, McClellan seconded to perform the additional actions recommended of removing the trees within 50 feet of the tile, root cleaning and jetting the lateral tile and televising the lateral to verify the condition, as shown in the Repair Summary for Work Order #201. All ayes. Motion carried.

11. Adjourn Meeting

Granzow moved, McClellan seconded to adjourn the meeting. All ayes. Motion carried.

Drainage District:

#41

Investigation Summary:

- District Trustees requested that the SW¼ and NW¼ Section 8, Township 88 North, Range 21 West be investigated to determine the number of acres of each that are within the Drainage District watershed.
- CGA staff performed site visit and topographic survey to determine drainage boundary in the same.
- Using this field data and Lidar elevation data, CGA staff drafted contour maps (copies attached) showing drainage district boundaries and computed areas for the SW¼ and NW¼ that are within the drainage district boundaries by surface drainage.

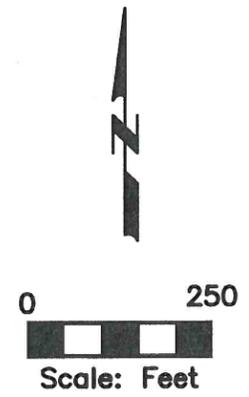
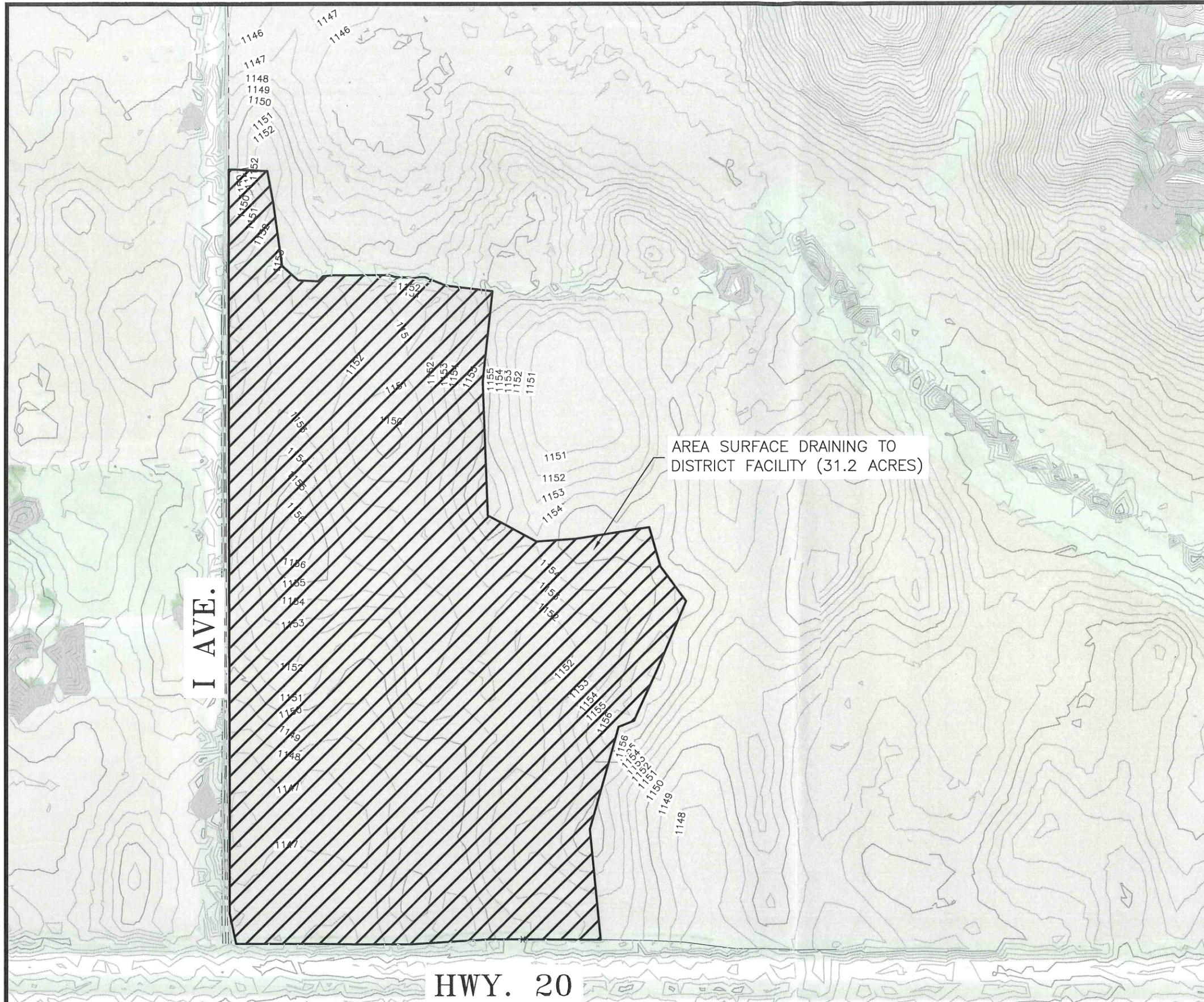
Contractor Time and Materials (spent while CGA was on-site):

None recorded as only investigation was performed.

Additional Actions Recommended:

- Based on the attached maps, it is clear that the SW¼ and NW¼ surface drain towards the drainage district and portions of each should be included in the drainage district.
- The District Trustees should compare the number of acres shown on the maps to those in the existing classification to see if an inequity exists.
- If one does exist, it is recommended that the District Trustees seek legal advice on how to rectify it (i.e. reclassification or some other method).





DRAWN BY: RLY	APPROVED BY: LOG	REVISIONS:
DATE: 5-3-18	PROJ. NO.: 6682	
FIELD BK: -		
F:\6682\CADD\SURVEY\6682-DRAINAGE-LIDAR.DWG; 11/5/2018		

CGA
 Clapsaddle-Garber Associates, Inc
 Main Office: 16 East Main Street
 Marshalltown, Iowa 50158
 Ph 641-752-6701
 www.cgaconsultants.com

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

PROJECT:
DRAINAGE DISTRICT #41
HARDIN COUNTY, IOWA
2018

SHT. NAME:
DRAINAGE AREA INVESTIGATION
NW¼ 8-88-21

SHT. NO.:
1 OF 2

HWY. 20

I AVE.

AREA SURFACE DRAINING TO DISTRICT FACILITY (58.5 ACRES)



DRAWN BY: RLY
DATE: 5-3-18
FIELD BK: -
P:\6682\CADD\SURVEY\6682-DRAINAGE-LIDAR.DWG; 11/5/2018

APPROVED BY: LOG
PROJ. NO.: 6682

REVISIONS:



Clapsaddle-Garber Associates, Inc
Main Office: 16 East Main Street
Marshalltown, Iowa 50158
Ph 641-752-6701
www.cgaconsultants.com

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

PROJECT:
DRAINAGE DISTRICT #41
HARDIN COUNTY, IOWA
2018

SHT. NAME:
DRAINAGE AREA INVESTIGATION
SW¼ 8-88-21

SHT. NO.:
2 of 2

HARDIN COUNTY AUDITOR
HARDIN COUNTY DRAINAGE DISTRICT

In re Hardin County Drainage District No. 52 by _____ and _____,

Petitioner,

vs.

Piel Manufacturing Company, Inc.

Respondent.

**PETITION TO EXPAND RIGHT OF WAY
OF DRAINAGE DISTRICT 52
PURSUANT TO IOWA CODE § 468.139**

TO THE COUNTY AUDITOR HARDIN COUNTY, IOWA:

The undersigned petitioners _____ and _____ here by file this Petition to Expand Right of Way of Drainage District 52 Pursuant to Iowa Code § 468.139. ask that the drainage commencing at _____ be expanded to _____.

The undersigned sets forth the facts as the following:

1. Drainage District No. 52 in Hardin County was a properly established drainage district pursuant to Iowa law.
2. The Board of Trustees oversees the maintenance of Drainage District No. 52, and is legally obligated to maintain the tile.
3. In 2010, Drainage District 52 experienced multiple maintenance and repair requests due to problems caused from certain tree roots being in the tiles. Piel Manufacturing Company, Inc. (“Piel Manufacturing”), in Hubbard, Iowa, is the owner of the trees and the property where the trees are located.
4. The location of the trees which were causing the problem are at the following location (legal description):

A tract of land located in Lots Two (2) and Three (3) of County Auditor's Sixth Plat in the East One-half of the Northeast Quarter (E½ NE¼) of Section Thirty-three (33), Township Eighty-seven (87) North, Range Twenty-one (21) West of the 5th P.M., being within the City of Hubbard, Hardin County, Iowa, more particularly described as follows:

Commencing at the Northwest Corner of said Lot 3; thence South 83°31'52" East, 577.25 feet along the north lines of said Lots 3 and 2 to the point of beginning; thence South 83°31'52" East, 44.50 feet along said north line of said Lot 2; thence South 00°51'00" West, 189.75 feet; thence North 89°06'56" West, 173.25 feet; thence North 81°25'47" West, 154.00 feet; thence North 01°54'11" West, 42.00 feet; thence North 89°20'31" East, 273.00 feet; thence North 05°45'56" East, 124.64 feet to the point of beginning, containing 0.60 acres total. Subject to easements.

Note: For the purposes of this easement, the north line of said Lots 2 and 3 was determined to bear South 83°31'52" East using GPS.

5. In 2010, 300 feet of tile was replaced with non-perforated water tight gasketed HDPE tile. The new tile was also relocated to be further away from the trees.
6. Now, in 2018, the problem is reoccurring, and the tree roots have protruded through the non-perforated tile, again causing blockages in the tile.
7. A contractor was able to get the roots pulled out and the tile flowing again, but the tree roots will continue to cause overflow to the tile.
8. The removal of the trees is necessary to prevent the tile from further and future obstruction.
9. Drainage District 52's easement should be expanded to include the aforementioned legal description where the trees are located and to remove the trees, pursuant to Iowa Code § 468.139.
10. The removal of the trees is authorized by Iowa Code § 468.139.
11. The Board of Trustees has requested that Piel Manufacturing consent to the removal of the trees. Piel Manufacturing has refused.

12. Pursuant to Iowa Code the Drainage District has an obligation to make sure that the tree roots do not impeded the flow of water in the drainage tiles. As such, the undersigned request that the Board destroy and remove the trees obstructing the tile.

13. It is necessary to destroy the trees or hedges outside the current right-of-way to prevent the tiles from obstruction by the roots. The board and the owners of such trees or hedges cannot agree upon the damage for the destruction thereof, and the board is hereby proceeding to acquire the right to destroy and remove such trees for the public benefit, utility, health, convenience, and welfare which will be promoted by the aforementioned project.

14. Undersigned hereby moves the Auditor to convene the parties for proceedings related to the same.

15. Undersigned hereby moves the Auditor to consider whether bond is appropriate.

16. Undersigned moves for the County Engineer to prepare a report to present to the Board of Trustees to expand the right away as proposed herein, for notice of a hearing, and for an adjudication related to the same.



Drainage Work Order Request For Repair

Hardin County

Date: 8/9/2018

Work Order #: WO00000224

Drainage District: Drainage Districts \DD 55-3 (51085)\DD 55-3 Lat 9(5124

Sec-Twp-Rge: 01-86-20 **Qtr Sec:** NE1/4

Location/GIS: 86-22-01-200-001

Requested By: Randy Dubberke

Contact Phone: (641) 864-3388

Contact Email: randeb@netins.net

Landowner (if different): RanShell, LLC

Description: Outlet seems plugged and land from NE1/4 Section 2 & NW1/4 Section 1 (outside district boundaries but draining into DD) overflowing land in NE1/4 Section 1 to get to ditch lying east of H Avenue.

Repair labor, materials and equipment: _____

Repaired By: _____ **Date:** _____

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

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

For Office Use Only

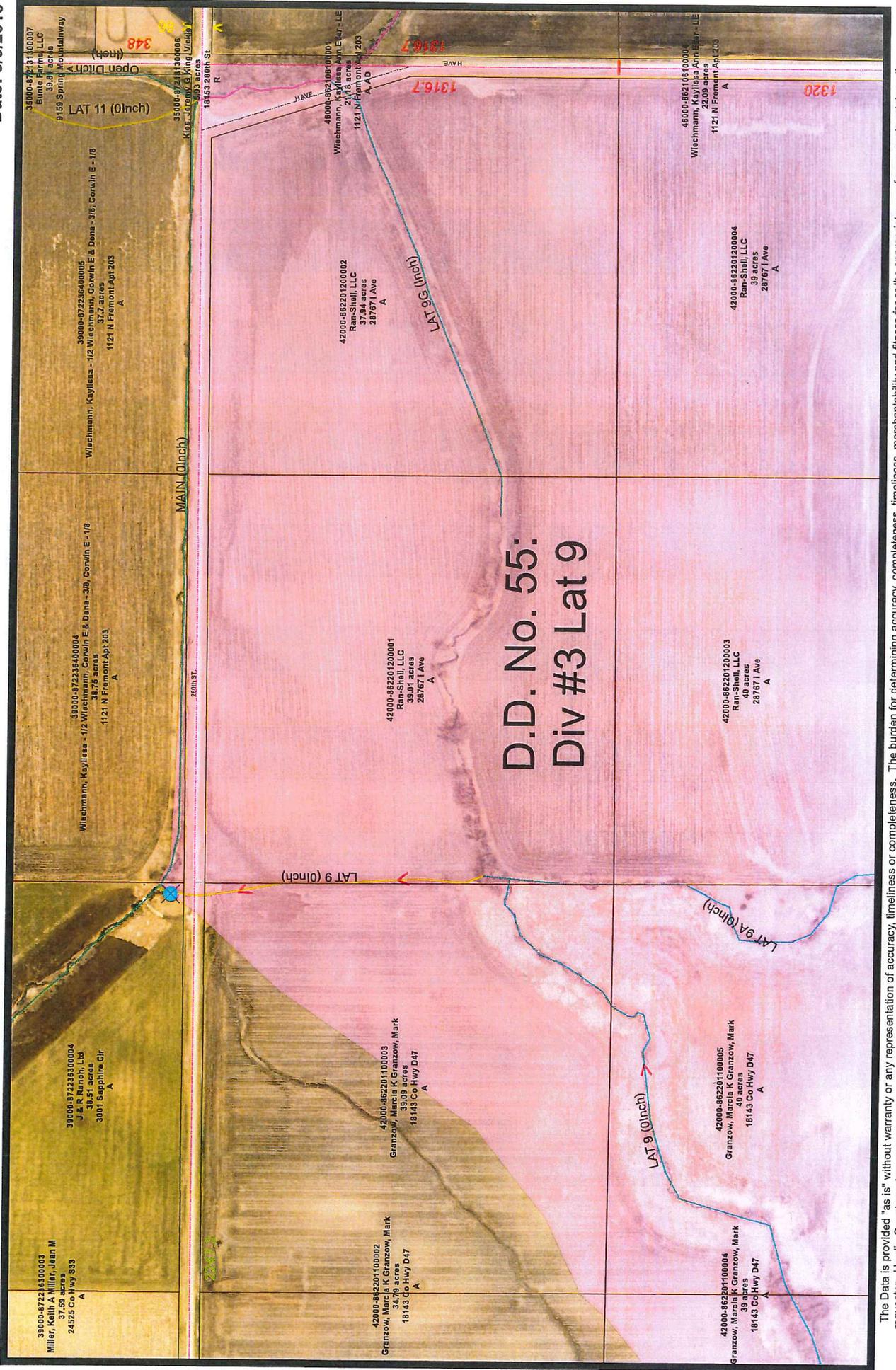
Approved: _____ **Date:** _____



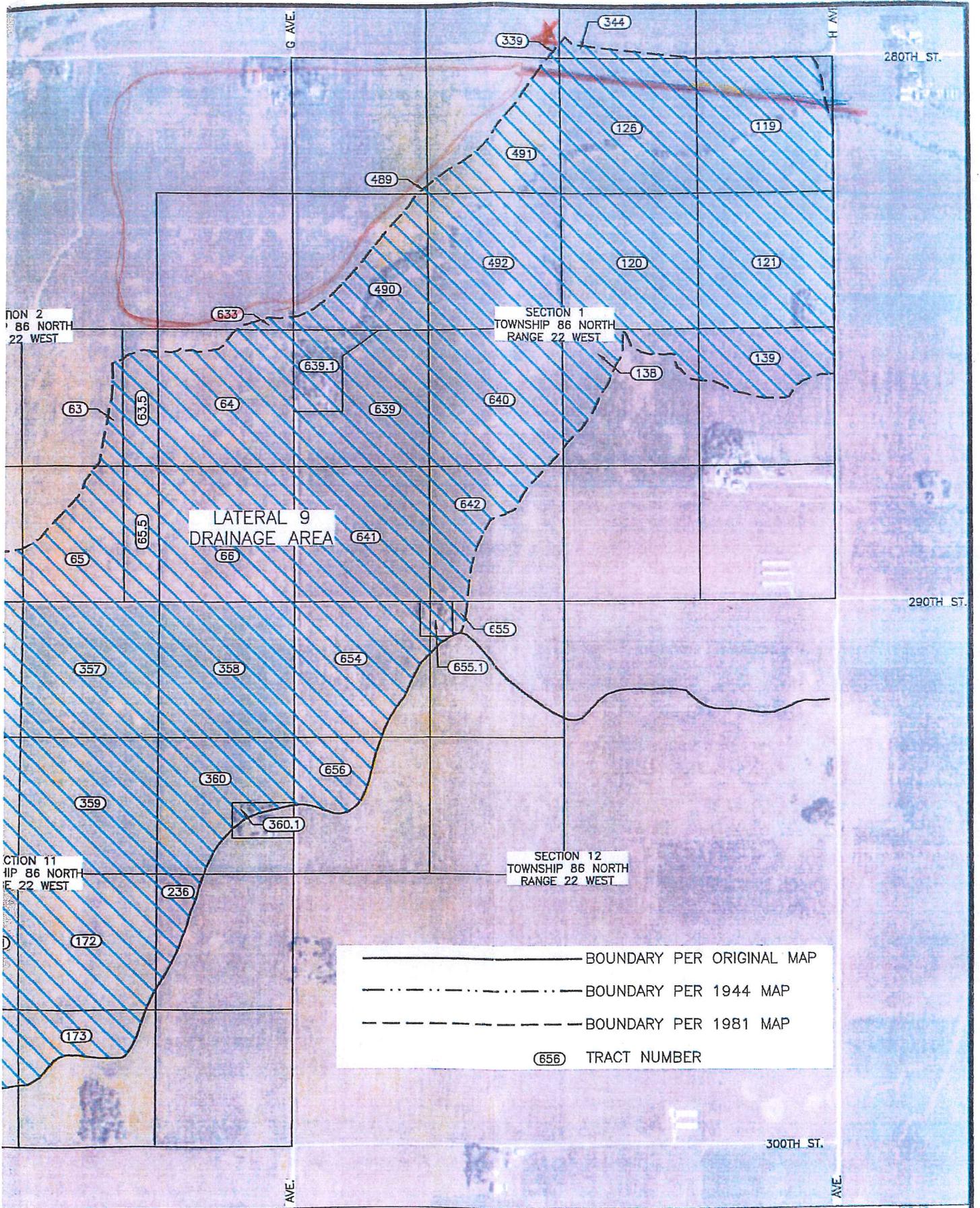
Hardin County Auditor's Office



Date: 8/9/2018



The Data is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, merchantability and fitness 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.



SECTION 2
TOWNSHIP 86 NORTH
RANGE 22 WEST

SECTION 1
TOWNSHIP 86 NORTH
RANGE 22 WEST

LATERAL 9
DRAINAGE AREA

SECTION 12
TOWNSHIP 86 NORTH
RANGE 22 WEST

SECTION 11
TOWNSHIP 86 NORTH
RANGE 22 WEST

————— BOUNDARY PER ORIGINAL MAP
 - - - - - BOUNDARY PER 1944 MAP
 - · - · - BOUNDARY PER 1981 MAP
 (656) TRACT NUMBER

Drainage District:

#55 Division 3 Lateral 9

Investigation Summary:

- Landowner indicated that surface water from the NE¼ Section 2 and NW¼ Section 1, Township 86 North, Range 22 West was flowing from outside of the Lateral watershed boundary into district Lateral facility.
- CGA staff performed site visit and didn't find any visible evidence of the above claim.
- Using Lidar elevation data, CGA staff drafted contour map (copy attached) showing surface water Lateral watershed boundary and inserted record (1981/recent reclassification) version of the same.

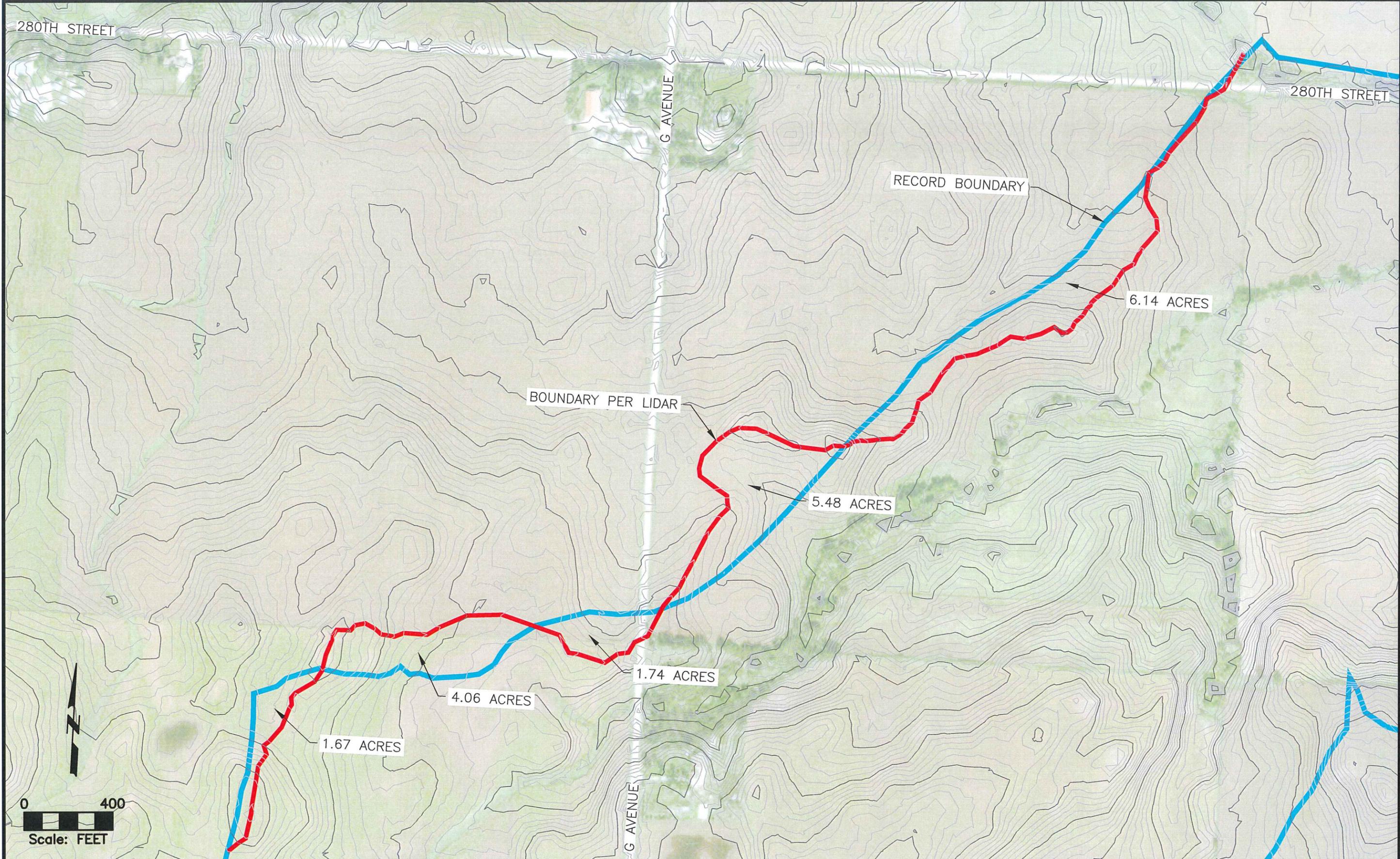
Contractor Time and Materials (spent while CGA was on-site):

None recorded as only investigation was performed.

Additional Actions Recommended:

- Based on the attached map, it is clear that the above mentioned versions of the Lateral watershed boundary vary from each other as they overlap one another slightly in different directions. However, the net effect in Section 1 is an excess of 0.66 acres in the Lateral drainage area and the net effect in Section is a shortage of 0.65 acres in the Lateral drainage area.
- The District Trustees should decide if this area is large enough that an inequity exists.
- If one does exist, it is recommended that the District Trustees seek legal advice on how to rectify it (i.e. reclassification or some other method).





DRAWN BY: ZJS	APPROVED BY: LOG	REVISIONS:
DATE: 2018-10-30	PROJ. NO.: 6636.7	
FIELD BK: -		
P:\6636.7\CADD\DESIGN\6636.7-LIDAR.DWG; 12/3/2018		



Clapsaddle-Garber Associates, Inc
 Main Office: 16 East Main Street
 Marshalltown, Iowa 50158
 Ph 641-752-6701
 www.cgaconsultants.com

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

PROJECT:
 DRAINAGE DISTRICT 55, DIVISION 3, LATERAL 9
 HARDIN COUNTY, IOWA
 2018

SHT. NAME:
 DD55-DIV3-LAT9
 WATERSHED BOUNDARY MAP

SHT. NO.:
 1 OF 1

Drainage District:

143

Investigation Summary:

- At the Hearing on Engineer's Report for Repairs to Upper End of Main Tile, the District Trustees requested an investigation of who owned the fiber optic utilities that were bored through the Main Tile.
- Based on information from the Iowa One-Call service, it appeared that the most likely utility at issue was Radcliffe Telephone Company.
- Contacted Radcliffe Telephone Company via telephone on November 11, 2018 and they indicated that they use orange conduit for their fiber optic line.
- Attached photographs (Pic #1 and Pic #2) from CCTV inspection clearly show that conduit bored through the Main Tile is orange. The locations of said fiber optic lines being bored through the Main Tile are shown on the attached CCTV Investigation Map.

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

None as only investigation was performed.

Additional Actions Recommended:

Radcliffe Telephone Company should remove their fiber optic lines from the Main Tile and repair the Main Tile at these two locations. The repair should be observed, documented, and performed to applicable Drainage District standards. It is CGA's opinion that this should be done at no cost to the drainage district unless there is an agreement or Iowa Code section that states otherwise.

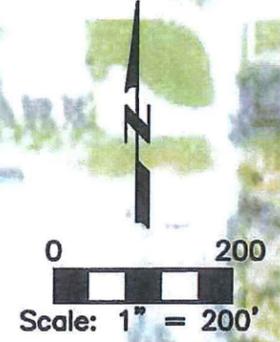
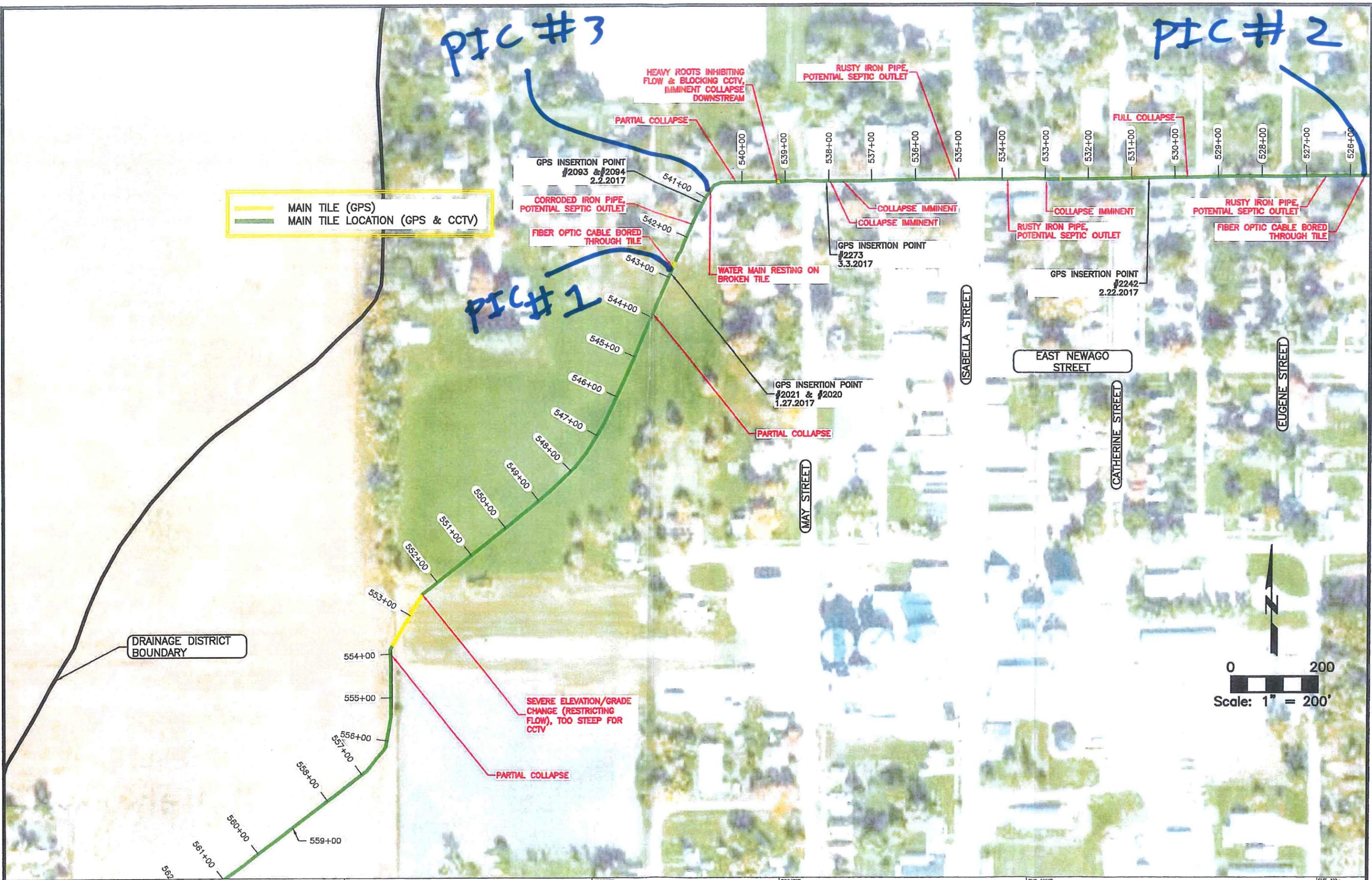


PIC #3

PIC #2

PIC #1

MAIN TILE (GPS)
 MAIN TILE LOCATION (GPS & CCTV)



DRAWN BY: JVS	APPROVED BY: LOG	REVISIONS:
DATE: 5/3/2017	PROJ. NO.: 6771	
FIELD BK: P:\6771\CADD\DESIGN\6771 - TELEISE MAP.DWG; 5/30/2017		

RYKEN
ENGINEERING & LAND SURVEYING, INC.
ACKLEY, MASON CITY & WEBSTER CITY, IOWA

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

PROJECT:
DRAINAGE DISTRICT #143
HARDIN COUNTY, IOWA
.2017

SHT. NAME:
CCTV INVESTIGATION MAP

SHT. NO.:
2 OF 3

PIC # 2

2/2/2017

11:19:55 AM

A

147.3 FT.

147.3 ft.

Pipe material: FClay

PTC # 2

2/22/2017

11:09:44 AM

P

491.7 ft.

491.7 FT.

Pipe material: EClay



PECC # 3

2/2/2017

9:35:31 AM

P

32.5 ft.

32.5 FT.

Pipe material: Clay



Drainage District:

143

Investigation Summary:

- At the Hearing on Engineer's Report for Repairs to Upper End of Main Tile, the District Trustees requested an inventory of trees within the 50' of the Main Tile from the west end of town to the east end of town (i.e. west side of the golf course) be performed.
- CGA staff performed a site visit along the Main Tile route and found the following trees within 50' of the Main Tile (unless noted otherwise):
 - 3 Walnuts (28"-36")
 - 1 Buckeye (12")
 - 3 Oak (6"-36")
 - 12 Brush or Brush Lines
 - 1 Cedar (24")
 - 4 Blue Spruce (8"-15")
 - 13 Apple (2"-24")
 - 2 Honey Locusts (24"-36")
 - 10 Ash (10"-48")
 - 4 River Birch (24"-36")
 - 22 Soft Maple (2"-48")
 - 12 Hard Maple (8"-48")
 - 3 Mulberry (6")
 - 1 Boxelder (24")
 - 1 Sycamore (48") at 54' from tile

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

None as only investigation was performed

Additional Actions Recommended:

Although all trees are capable of producing tree roots which can negatively impact tile, the above yellow highlighted trees species are some that we typically find majorly impacting tile negatively. If the District Trustees do not pursue lining the Main tile, they may wish to pursue removal of at least the yellow highlighted trees as it is CGA's opinion that they will eventually (or may already be) negatively impacting the Main Tile. It is also our opinion that the cost of removal of just these trees would be over \$50,000. This cost is high enough that a hearing and engineer's report would be required.



Drainage District:

143

Investigation Summary:

At the Hearing on Engineer's Report for Repairs to Upper End of Main Tile, the District Trustees requested an opinion of probable construction cost to line the existing Main tile from the west end of town to the east end of town (i.e. west side of the golf course).

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

None as only investigation was performed

Additional Actions Recommended:

Based on conversations with some lining companies and recent bid letting for sanitary sewer lining, CGA drafted the attached Engineer's Opinion of Probable Construction Costs. Said opinion is just below \$500,000. This cost is high enough that a hearing and engineer's report would be required.





By: Z.J.S.
 Date: 11/21/2018
 Checked By: L.O.G.
 Date: 11/21/2018

Engineer's Opinion of Probable Construction Costs
Project: Main Tile for D.D. #143
 Location: City of Radcliffe, Hardin County, Iowa

TILE LINING	ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost	
		CONSTRUCTION COSTS						
	101	TILE CLEANING	\$ 5.00	LF	4609	LF	\$ 23,045.00	
	102	14-INCH TILE LINING	\$ 35.00	LF	1315	LF	\$ 46,025.00	
	103	18-INCH TILE LINING	\$ 50.00	LF	2558	LF	\$ 127,900.00	
	104	20-INCH TILE LINING	\$ 60.00	LF	736	LF	\$ 44,160.00	
	105	ACCESS MANHOLES	\$ 10,000.00	EA	9	EA	\$ 90,000.00	
	106	REINSTATE TAP	\$ 200.00	EA	87	EA	\$ 17,400.00	
	107	REMOVE AND REPLACE ASPHALT	\$ 60.00	SY	150	SY	\$ 9,000.00	
	108	TRAFFIC CONTROL	\$ 5,000.00	LS	1	LS	\$ 5,000.00	
CONSTRUCTION SUBTOTAL							\$ 362,530.00	
Contingency (10%)							\$ 36,253.00	
CONSTRUCTION TOTAL							\$ 398,783.00	
Engr. & Const. Observation (25%)							\$ 99,695.75	
TOTAL DISTRICT COST							\$ 498,478.75	



Drainage Work Order Request For Repair

Hardin County

Date: 5/7/2018

Work Order #: WO00000211

Drainage District: Drainage Districts \DD 148

Sec-Twp-Rge: 07-89-19 **Qtr Sec:** NW SE

Location/GIS: 89-19-07-400-001

Requested By: Bill Ibeling

Contact Phone: (641) 373-1732

Contact Email: _____

Landowner (if different): _____

Description:

Intake has problems. Just south of Bonewitz house. Will be planted with beans. If can't fix right away, wait until fall to repair. Call Bill with any questions.

Repair labor, materials and equipment: _____

Repaired By: _____ **Date:** _____

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

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

For Office Use Only

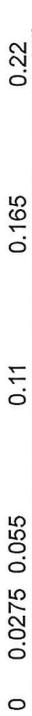
Approved: _____ **Date:** _____



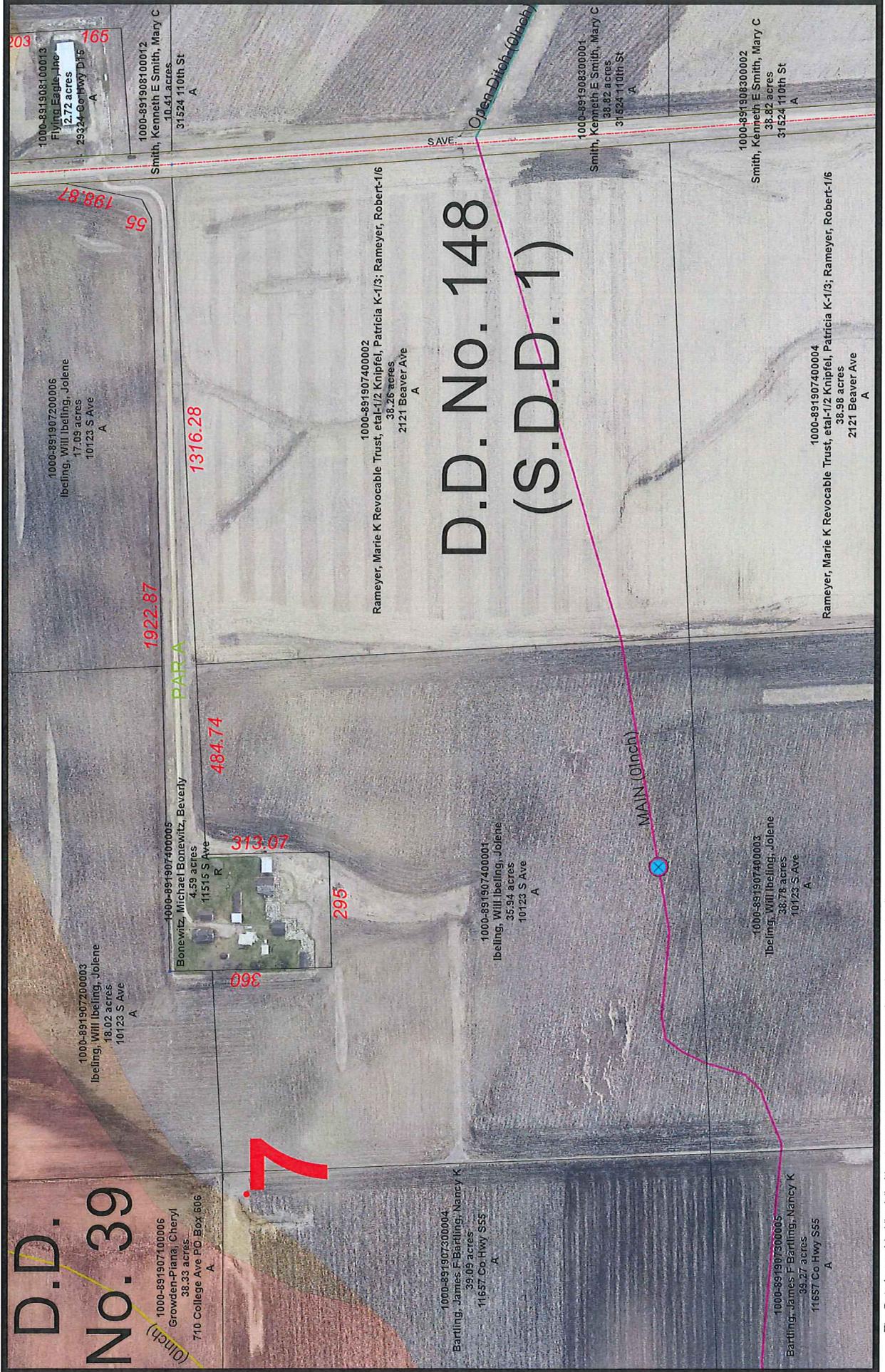
Hardin County Auditor's Office



0.22 Miles



Date: 5/7/2018



D.D. No. 39

D.D. No. 148 (S.D.D. 1)

The Data is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, timeliness, merchantability and fitness for 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.

Drainage District:

#148

Repair Summary:

- Per the direction of the District Trustees, CGA contacted landowner to see which style of intake (HDPE Hickenbottom or precast concrete) they wanted for a replacement for the broken intake in the NW¼ SE¼ Section 7, Township 89 North, Range 20 West. Landowner selected the HDPE Hickenbottom style.
- Removed existing intake and found that intake was offset from the Main tile, but was connected to Main tile with HDPE tile. Excavated hole further for the new Hickenbottom intake.
- Installed HDPE tee and connected said tee to the existing HDPE tile with factory joint and fast setting concrete.
- Installed intake riser on tee and lined excavated hole with engineering fabric.
- Filled lined hole with 3-inch rock nearly to surface level and fine graded around intake with on-site soil.
- Removed old concrete intake from site.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

None at this time.



Tabulated Contractor Time and Materials

Date	Totals	11/1/2018	11/14/2018
Workman (hrs)	6	3	3
Backhoe (hrs)	3	1.5	1.5
8"x8"x8" HDPE Tee (ea.)	1	1	
8" HDPE riser (ea.)	1	1	
Engineering Fabric	Yes		
3" Drainage Stone	Yes		
Fast setting concrete	Yes		

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

2018-11-01

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 2

PROJECT NUMBER:

6952

COUNTY, ROUTE, ROAD:

S AVE

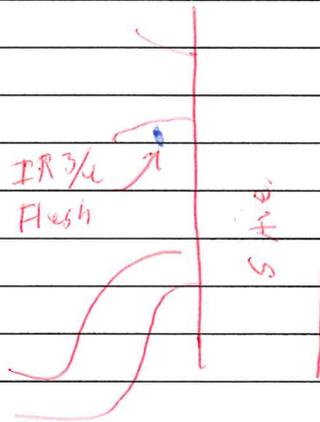
LOCATION:

DD-148

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

9:00am - Arrive at site contractor has not arrived yet
- went and set up GPS at Harding County GPS monument 8056 shot 3 more county Mon.
8057
8072
8073

- also set control point in Field Drive N. of acreage driveway



9:30 - 2 men crew showed up with Backhoe

- Removed old intake and found single wall HOPE contacted to intake
- installed Factory Tee 6" x 8" x 8" with riser

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

Observer's Signature: _____

Date Prepared: _____

Reviewed by: _____

Engineer

Date Reviewed: _____

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE: 2018-11-01

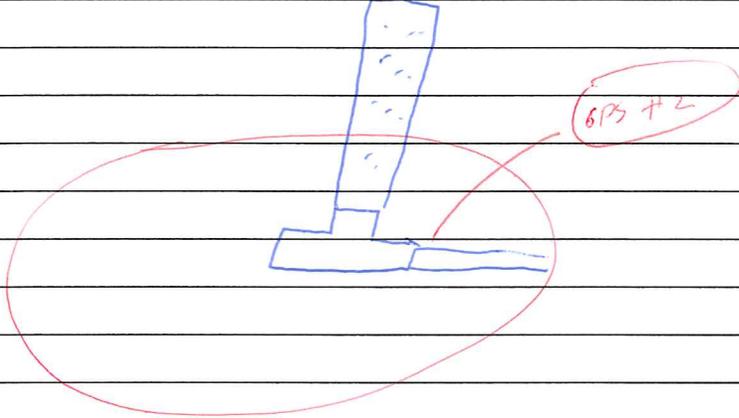
PROJECT NUMBER: 6852
COUNTY, ROUTE, ROAD: S AVE
LOCATION: DD-148

DAYS OF WEEK:

S	M	T	W	T	F	S
---	---	---	---	--------------	---	---

SHEET NO. 2 OF 2

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



11-06 - Done with Repair for the Day still need to place Rock around intake
↓ Remove old intake from site.

Totals ; 2 man crew - 1.5 hours
Back Hoe - 1.5 hours
6x8"x6" Tee - 1
Pipe - 1
Eng. Fibrech - 1

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

Observer's Signature: [Signature]

Date Prepared: 2018-11-02

Reviewed by: _____

Engineer

Date Reviewed _____





CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

2018-11-04

DAYS OF WEEK:

S M T ~~W~~ T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

6952

COUNTY, ROUTE, ROAD:

DD-148

LOCATION:

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

38° Windy / sunny

12:00pm - arrival on site 2 man crew with Back Hoe

- setting Rock around intake pipe

- Regrading around intake

1:30pm - finished Intake & removed old intake

total time: 2 man crew x 1.5 hr = 3 hr

1 Back Hoe x 1.5 hr = 1.5 hr

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

Observer's Signature:

[Signature]

Date Prepared:

11-14-2018

Reviewed by:

Engineer

Date Reviewed _____





6952 2018-11-01ZS.txt

1,3659080.549,5022163.634,1188.926,IR 34 CPT
2,3657563.044,5020032.096,1128.794,TOP TILE 8 INCH
3,3657561.154,5020032.031,1129.332,INTAKE
4,3657813.757,5021610.551,1130.338,TOP TILE BLOWOUT
5,3657810.501,5021614.745,1126.682,TOP 24 VCP
6,3657810.895,5021627.349,1126.558,TOP 24 VCP
7,3657890.313,5022338.901,1130.759,HEADWALL
8,3657890.133,5022339.292,1130.778,HEADWALL
9,3657894.422,5022341.526,1130.723,HEADWALL
10,3657894.648,5022341.174,1130.720,HEADWALL
11,3657896.453,5022342.161,1128.711,HEADWALL
12,3657896.170,5022342.548,1128.720,HEADWALL
13,3657916.375,5022353.112,1129.426,HEADWALL
14,3657917.445,5022353.984,1130.601,HEADWALL
15,3657917.610,5022353.667,1130.590,HEADWALL
16,3657916.278,5022353.508,1129.538,HEADWALL
17,3657921.696,5022356.226,1130.647,HEADWALL
18,3657921.866,5022355.958,1130.581,HEADWALL
19,3657898.743,5022344.895,1123.815,24 FL
20,3657899.090,5022345.751,1123.642,BOTTOM
8056,3666063.240,5016956.410,1145.800,GPS 8056
8056_gnss,3666063.240,5016956.410,1145.800,Autonomous Setup
8057,3650565.102,5016949.204,1139.956,GPR 8057
8072,3650774.512,5032816.304,1197.856,GPS 8072
8073,3666060.041,5035470.186,1121.852,GPS 8073

Drainage District:

#26

Investigation Summary:

- Utility company (Radcliffe Telephone Company) requested to pass fiberoptic cable under the Main Open Ditch of Drainage District #26. Said crossing took place on the south side of Hwy D41, located in the NW¼ Section 32, Township 88 North, Range 22 West.
- The contractor completing said work located the path and depth of the cable boring in the under the Main Open Ditch, with depths being 10± feet below said Main Open Ditch.
- Shot existing flowline of Main Open Ditch. When compared to the utility locates, utility is 9.9 feet to 10.6 feet below the existing flowline.
- The depth of silt in said Main Open Ditch was not determined from historical records. However, should a cleanout occur, the 9.9 feet to 10.6 feet of depth indicated that the cable should be well below the original design flowline.

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

None recorded. All work was completed by contractor under Heart of Radcliffe Telephone Company's employ and CGA was not on-site while work was being completed.

Additional Actions Recommended:

No signage was installed by utility company since utility was installed in road ditch. Either they need signage installed or said requirement waived by the District Trustees





Drainage Utility Permit Application Hardin County

Applicant: Ed Drake

Contact Email: edrake@radcliffetelephone.com

Contact Phone: (515) 899-2341

Utility Type: Communications

Drainage District: Drainage Districts \DD 26 (51049)

Description of Work: Radcliffe Telephone Company
 202 Isabella St.
 Radcliffe, IA 50230

Installing fiber optic cable to new residence located at 13180 Co Hwy D41.

(Call Dave Nelson with approval. (641) 640-0395

Pursuant to Code of Iowa Section 468.186, approval is hereby requested for the right, privilege and authority to construct, operate and maintain utilities on, over, across or beaneath established Hardin County Drainage Districts, subject to the attached Requirements for Construction On, Over, Across or Beneath Established Drainage Districts. Failure to comply with said requirements shall be ground for revocation of the permit by the Hardin County Board of Supervisors.

Applicant Signature

Date

Submit Form and Location Plan 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
 drainage@hardincountya.gov

For Office Use Only

Application Approval:

By: _____ Date: _____
Board of Supervisor Chairman, Acting as Drainage District Trustee

APPROVED PERMIT # 2018-13



HARDIN COUNTY

1215 EDGINGTON AVE., SUITE 1
ELDORA, IA 50627
(641) 939-8108

HARDIN COUNTY DRAINAGE DISTRICT UTILITY PERMIT APPLICATION

Applicant: RADCLIFFE TELEPHONE CO.
Company Name
202 ISABELLA ST.
Address
RADCLIFFE IA 50230
City State Zip

Applicant Contact: ED DRAKE
Name (515) 899-2341
Phone
eddrake@radcliffe-telephone.com
Email

Utility Type: Bury Fiber optic cable

Drainage District(s) Crossed: DD 26

Facilities Crossed (specific tile, open ditch): None

Description of Work: INSTALL FIBER OPTIC CABLE TO NEW RESIDENCE
(Location plan of proposed utility must be attached.)

Pursuant to Code of Iowa Section 468.186, approval is hereby requested for the right, privilege and authority to construct, operate and maintain utilities on, over, across or beneath established Hardin County Drainage Districts, subject to the attached Requirements for Construction On, Over, Across or Beneath Established Drainage District. Failure to comply with said requirements shall be ground for revocation of the permit by the Hardin County Board of Supervisors.

[Signature]
Applicant Signature

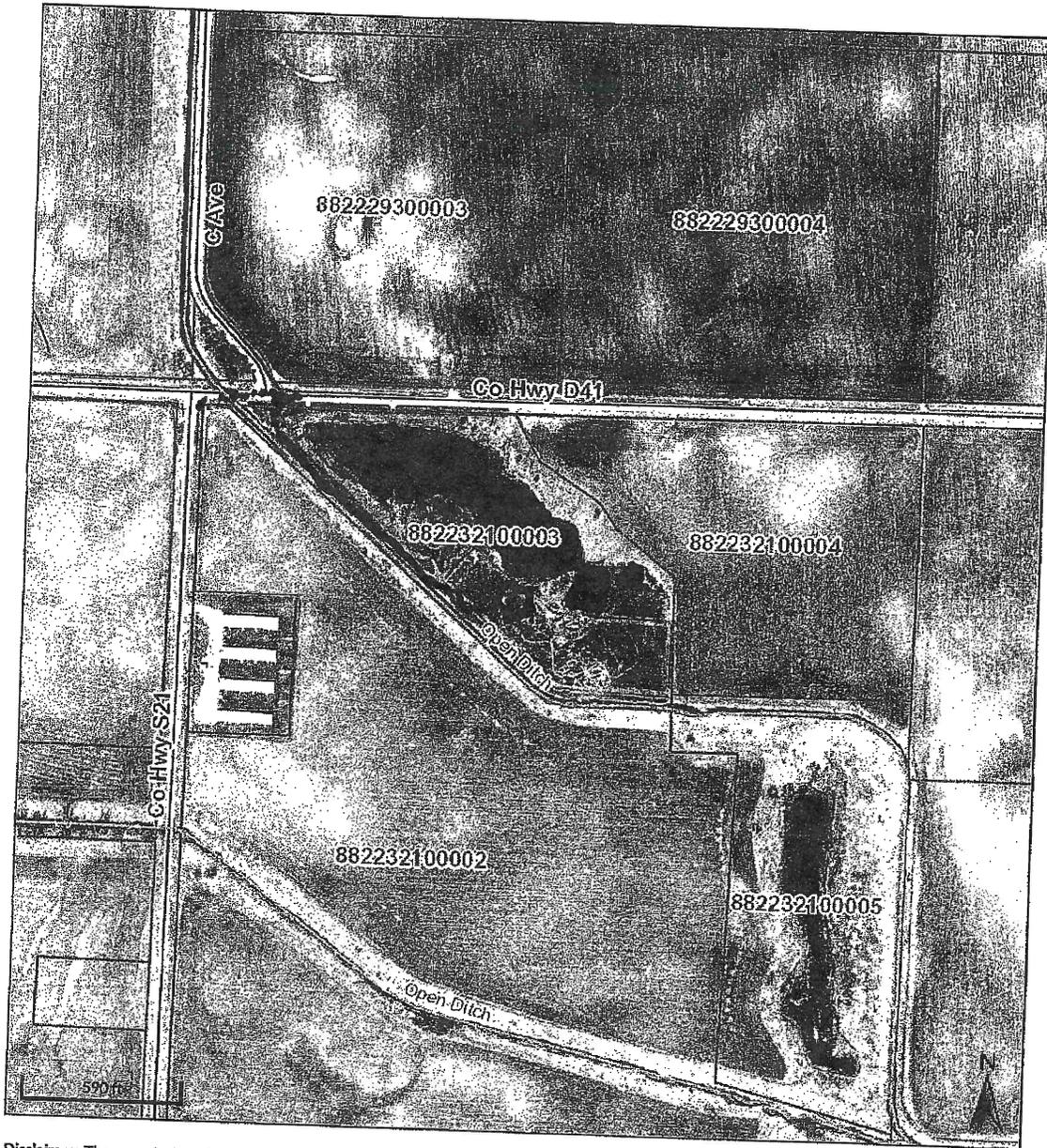
10-9-2018
Date

Submit Form and Location Plan To: Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Fax (641) 939-8225
drainage@hardincountyia.gov

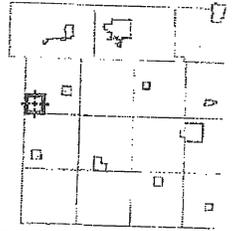
For Office Use Only

Application Approval:
By: _____ Date: _____
Board of Supervisor Chairman, Acting as Drainage District Trustee
APPROVED PERMIT #: 2018-13

Beacon™ Hardin County, IA



Overview



Legend

- Corporate Limits
- Political Township
- Roads
 - County Road
 - Federal Highway
 - Local Road
 - State Highway
 - Town Road
- Parcels
- Drainage Tiles

Disclaimer: The maps included in this website do not represent a survey and are compiled from official records, including plats, surveys, recorded deeds, and contracts, and only contain information required for government purposes. No warranties, expressed or implied, are provided for the data herein, its use or its interpretation. Hardin County assumes no responsibility for use or interpretation of the data. Any person that relies on any information obtained from this site does so at his or her own risk. All critical information should be independently verified.

Date created: 10/9/2018
Last Data Uploaded: 10/8/2018 6:35:21 PM

Developed by  Schneider
GEOSPATIAL

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

11/5/18

DAYS OF WEEK:

S M T W T F S

SHEET NO.

OF

PROJECT NUMBER:

5055-10

COUNTY, ROUTE, ROAD:

DD 26

LOCATION:

D41 AND OPEN DITCH #26

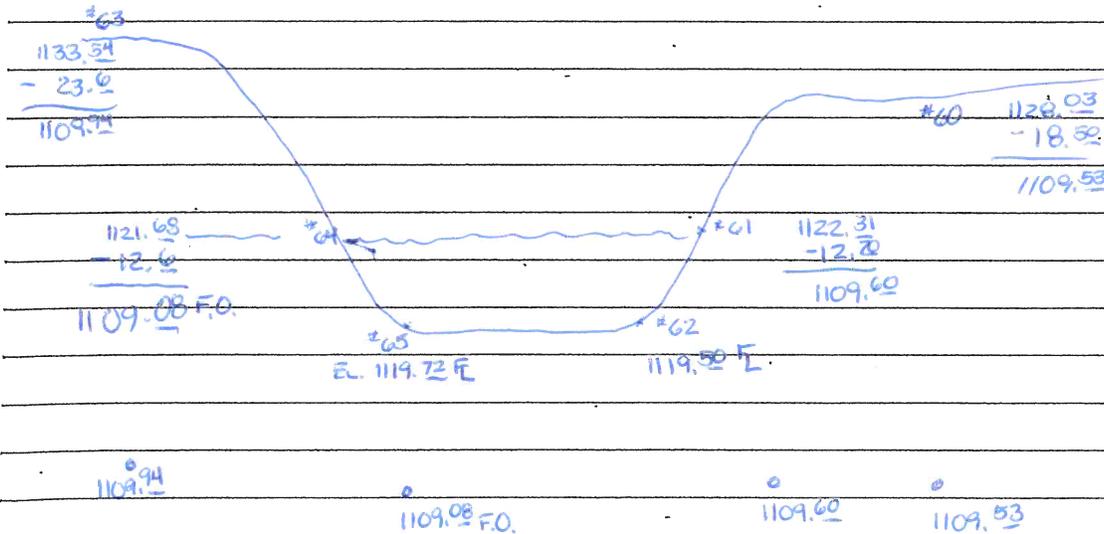
DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUE NAME, ITEM NO. AND LOCATION

Cloudy, Drizzle, 1" RAIN RECENTLY, 40°
CALLED DAVE NELSON ON WAY TO JOB SITE, NO ANSWER, LEFT MESSAGE.
SET X ON 26008, 5/8" IR IN FIELD DRIVE, ✓ OK HALL, SPOT #60-65

FIBER OPTIC HAS 10'± OF COVER FROM X OF DD 26

NO SIGNS FOR FIBER OPTIC

LOOKING NORTH (UPSTREAM) ON S. 5/4 D41



4:00 P.M., STEVE NELSON CALLED BACK AND WANTED TO KNOW IF FLAGS WERE STILL UP, AND IF ANY QUESTIONS, ALSO IF THERE WAS 10' CLEARANCE, THERE IS.

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

Observer's Signature:

[Handwritten Signature]

Date Prepared:

11/5/18

Reviewed by:

Engineer

Date Reviewed

1,3602878.030,4947844.310,1135.050,HCGPS 8015
1_GNSS,3602878.030,4947844.310,1135.050,1
2,3586774.843,4946810.299,1151.546,HCGPS 8014
3,3602802.970,4951422.312,1125.773,nw prop cor
3_GNSS,3602802.970,4951422.312,1125.773,3
4,3606791.517,4946863.103,1127.637,tcp-3/4" rod
4_GNSS,3606791.517,4946863.103,1127.637,4
5,3602867.580,4951375.198,1127.899,CP 5 58IR
5_GNSS,3602867.580,4951375.198,1127.899,5
6,3610519.485,4946895.209,1152.180,cp 6 58 ir
6_GNSS,3610519.485,4946895.209,1152.180,6
7,3606246.397,4946915.013,1116.938,18" beehive-gs
8,3606246.115,4946915.636,1115.234,18" beehive-fl
9,3606241.849,4946914.634,1115.972,top 30" clay
10,3606242.647,4946916.080,1115.735,top 8" clay
11,3606225.829,4946910.042,1118.166,fl road ditch
12,3606240.836,4946913.562,1118.103,fl road ditch
13,3606256.863,4946912.524,1118.347,fl road ditch
14,3606272.242,4946912.696,1118.549,fl road ditch
15,3606205.689,4946899.186,1123.644,eg
16,3606240.149,4946898.649,1123.917,eg
17,3606269.499,4946899.315,1124.040,eg
18,3606292.452,4946896.142,1124.152,eg
19,3606293.340,4946896.455,1124.194,brg deck
20,3606308.982,4946896.270,1124.083,brg deck
21,3606308.722,4946879.578,1124.211,brg deck
22,3606293.051,4946879.682,1124.231,brg deck
23,3606292.566,4946897.991,1124.617,top wood wing
24,3606283.754,4946902.654,1124.480,top wood wing
25,3606309.492,4946898.070,1124.476,top wood wing
26,3606311.910,4946900.233,1124.435,top wood wing
27,3606318.095,4946902.591,1124.368,top wood wing
28,3606309.857,4946896.318,1124.070,eg
29,3606328.368,4946899.253,1123.814,eg
30,3606357.134,4946900.293,1123.404,eg
31,3606358.348,4946910.445,1118.542,fl road ditch
32,3606336.107,4946909.735,1118.607,fl road ditch
33,3606321.274,4946910.043,1118.200,fl road ditch
34,3606359.630,4946889.616,1123.543,c
35,3606326.362,4946888.311,1124.032,c
36,3606300.361,4946887.541,1124.333,c
37,3606267.549,4946887.987,1124.238,c
38,3606215.699,4946888.018,1123.985,c
39,3606184.022,4946887.132,1123.952,c
40,3602841.034,4949464.725,1132.668,scf sq 348822
41,3606710.361,4939007.626,1119.050,topcmp
42,3608094.692,4941353.659,1124.733,s bore
43,3608150.308,4941436.658,1124.513,n bore toppipe
44,3610586.607,4941990.546,1131.227,top mh 4 nrin
45,3610845.524,4942501.851,1134.563,top 12" vcp
46,3610823.334,4942488.273,1134.477,top 12" vcp
47,3608387.331,4941777.152,1129.708,6" clay tile
48,3610737.584,4942328.948,1132.146,top 12" vcp
49,3611373.228,4942790.146,1136.847,top 12" vcp
50,3612142.727,4943189.974,1140.142,top 12" vcp
51,3610996.037,4942596.772,1132.586,top 6" vcp
52,3618348.222,4944601.880,1149.772,top new tile
53,3618659.376,4938195.436,1155.296,check shot
54,3611090.629,4936254.774,1126.285,rip rap area
55,3611072.496,4936267.281,1126.679,rip rap area
56,3618601.977,4936840.165,1155.075,34 irs
57,3618234.727,4936491.155,1149.511,34 irs
58,3618234.983,4936838.154,,calc prop corner

5055 DD26 11-5-18RB.txt

59,3618692.654,4941643.290,1154.610,IRS 1/2
 60,3608081.535,4936596.276,1128.028,GS FIBEROPTIC-18.5
 61,3608082.858,4936574.894,1122.310,GS FIBEROPTIC-12.7
 62,3608081.851,4936573.977,1119.503,TOE FL
 63,3608080.390,4936521.548,1133.541,GS FIBERLOCATE-23.6
 64,3608083.160,4936546.698,1121.677,GS FIBERLOCATE-12.6
 65,3608088.765,4936544.729,1119.716,TOE FL
 1000,3601896.395,4952104.849,1110.976,bm-x on nw cor
 1001,3601651.219,4946826.693,1115.370,bm-x on nw cor
 1002,3602875.907,4942942.778,1122.602,bm-x on nw cor
 1003,3601691.196,4951381.721,1100.549,edge ditch
 1004,3601703.919,4951377.476,1105.582,top bank
 1005,3601688.649,4951370.118,1100.414,edge ditch
 1006,3601688.168,4951362.894,1100.356,edge ditch
 1007,3601692.992,4951355.846,1103.234,edge ditch
 1008,3601697.302,4951351.694,1104.678,edge ditch
 1009,3601693.827,4951339.434,1104.964,edge ditch
 1010,3601688.711,4951334.312,1104.311,edge ditch
 1011,3601683.435,4951336.305,1101.730,edge ditch
 1012,3601679.268,4951337.197,1099.812,edge ditch
 1013,3601672.739,4951314.795,1100.132,edge ditch
 1014,3601670.791,4951310.531,1098.187,edge ditch
 1015,3601665.018,4951296.564,1098.630,edge ditch
 1016,3601661.090,4951280.461,1098.318,edge ditch
 1017,3601675.920,4951275.199,1106.001,top bank
 1018,3601683.528,4951302.484,1106.117,top bank
 1019,3601688.340,4951324.956,1105.742,top bank
 1020,3601694.038,4951336.567,1105.197,top bank
 1021,3601701.928,4951365.753,1105.542,top bank
 1022,3601705.268,4951380.716,1105.690,top bank
 1023,3601734.668,4951356.560,1104.824,top bank
 1024,3601719.591,4951332.412,1105.298,top bank
 1025,3601715.290,4951321.497,1106.021,top bank
 1026,3601706.025,4951302.853,1105.246,top bank
 1027,3601696.807,4951279.934,1105.481,top bank
 1028,3601710.514,4951267.317,1104.571,top bank
 1029,3601734.501,4951261.584,1104.522,top bank
 1030,3601692.387,4951280.333,1105.748,gs
 1031,3601700.071,4951309.470,1105.426,gs
 1032,3601703.342,4951320.995,1106.314,gs
 1033,3601706.380,4951329.161,1106.495,gs
 1034,3601709.414,4951341.003,1105.707,gs
 1035,3601716.860,4951364.510,1105.662,gs
 1036,3601741.964,4951353.511,1103.777,toe
 1037,3601731.884,4951329.823,1103.357,toe
 1038,3601725.044,4951319.097,1102.600,toe
 1039,3601723.418,4951313.136,1102.304,fl
 1040,3601720.372,4951307.846,1102.656,toe
 1041,3601730.017,4951294.851,1103.053,toe
 1042,3601724.804,4951274.933,1104.278,top bank
 1043,3601712.196,4951261.565,1104.529,gs
 1044,3601734.304,4951293.894,1103.491,gs
 1045,3601738.230,4951298.767,1102.859,fl
 1046,3601740.977,4951302.336,1103.771,gs
 1047,3601731.017,4951310.503,1102.985,gs
 1048,3601757.471,4951349.577,1103.808,gs
 1049,3601790.459,4951327.347,1103.971,gs
 1050,3601763.811,4951302.498,1104.390,gs
 1051,3601756.797,4951290.726,1103.884,gs
 1052,3601756.124,4951288.043,1102.858,fl
 1053,3601752.629,4951284.482,1104.208,gs
 1054,3601741.579,4951263.066,1104.582,gs
 1055,3601729.766,4951241.689,1104.813,gs



Drainage Utility Permit Application

Hardin County

Applicant: Chad Reinholdt

Contact Email: c.reinholdt@midlandpower.com

Contact Phone: (515) 370-1485

Utility Type: Electric

Drainage District: Drainage Districts \DD 124

Description of Work: DD 124 - Boring D41 for new house on north side of road.

Midland Power Coop
1005 E Lincoln Way
Jefferson, IA 50129

Pursuant to Code of Iowa Section 468.186, approval is hereby requested for the right, privilege and authority to construct, operate and maintain utilities on, over, across or beneath established Hardin County Drainage Districts, subject to the attached Requirements for Construction On, Over, Across or Beneath Established Drainage Districts. Failure to comply with said requirements shall be ground for revocation of the permit by the Hardin County Board of Supervisors.

Applicant Signature

Date

Submit Form and Location Plan 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
drainage@hardincountyia.gov

For Office Use Only

Application Approval:	
By: _____ <i>Board of Supervisor Chairman, Acting as Drainage District Trustee</i>	Date: _____
APPROVED PERMIT # _____	2018-8 _____

21000-882027300004
CDK Family Farms, LLC
39 acres
300 Green Mountain Dr, Ste 107-221
A

21000-882027400001
CDK Family Farms, LLC
39 acres
300 Green Mountain Dr, Ste 107-221
A

21000-842027400002
Teske, Leon and Dorethy Trust
36.28 acres
27062 295th St

21000-882026800001
J T Farm Corporation
39 acres
824 Brooks Rd PO Box 400

21000-882027000005
Wagner, Joy N
37.59 acres
3411 E Devonshire Dr
A

21000-882027400003
Patten, Nicholas N Patten, Kathi J
37.59 acres
1651 148th St
A

21000-882027000004
Hazewood, Richie S W Hazewood, Betty J
37.59 acres
20787 R Ave
A, AD

21000-882026340003
J T Farm Corporation
37.59 acres
824 Brooks Rd PO Box 400

21000-882026100002
Klamme, Julie Jean - 172
37.04 acres
215 W Cedar PO Box 454
A

21000-882026200001
Zoske, Brent F & Nicole L
38.71 acres
18123 US Hwy 65
A

21000-842026200002
Zoske, Brent F & Nicole
38.78 acres
18123 US Hwy 65

21000-882031000001
Drury, Daniel F Drury, Carol Ann
39 acres
1101 18th St
A

D.D. No. 124

MAIN (0 1/2 inch)

CO HWY D41

CO HWY 565

180

99

99

99

99

99

99

99

1806 2

99

99

99

99

99

99

99

Drainage District:

#124

Investigation Summary:

- Utility company (Midland Power Coop) requested to pass electrical service under the main tile of Drainage District #124. Said crossing took place on the south side of County Highway D41, located in the SW¼ SE¼ Section 27, Township 88 North, Range 20 West.
- The contractor completing the work located and exposed the existing VCP main tile (with aid of lath left by CGA staff).
- The contractor completing the work directionally bored the electrical service at 1 foot ± below the main tile and called CGA while on-site to come observe. Since no notice was provided and CGA staff was unavailable, contractor e-mailed pictures to CGA (copies attached) and said that they could uncover everything again if needed when time was available.

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

None recorded. All work was completed by contractor under Midland Power Coop's employ and CGA was not on-site while work was being completed.

Additional Actions Recommended:

- Based on the e-mailed pictures, it is clear that the directional boring was under the main tile, but it is hard if not impossible to determine if the 1 foot of clearance was achieved or not. Either everything needs to be uncovered again or the requirement of on-site verification waived and replaced by the pictures by the District Trustees.
- Since CGA staff was not on-site, it is unknown if signage was installed by the utility company or not since the main tile is at the toe of the road foreslope. Either they need correct signage installed or said requirement waived by the District Trustees.
- CGA recommends repairing the blowouts/sinkholes in the south ditch of County Highway D41. Also, there are trees and brush around the main tile outlet that should be removed.





HARDIN COUNTY

1215 EDGINGTON AVE., SUITE 1
ELDORA, IA 50627
(641) 939-8108

HARDIN COUNTY DRAINAGE DISTRICT UTILITY PERMIT APPLICATION

Applicant: Midland Power Cooperative
 Company Name
1005 E Lincoln Way
 Address
Jefferson IA 50129
 City State Zip
 Applicant Contact: Chad Reinholdt (515) 370-1485
 Name Phone
creinholdt@midlandpowercoop
 Email
 Utility Type: Underground Electric
 Drainage District(s) Crossed: _____
 Facilities Crossed (specific tile, open ditch): DD 124 Main Tile
 Description of Work: Boring D41 for new house on
North Side of Road
 (Location plan of proposed utility must be attached.)

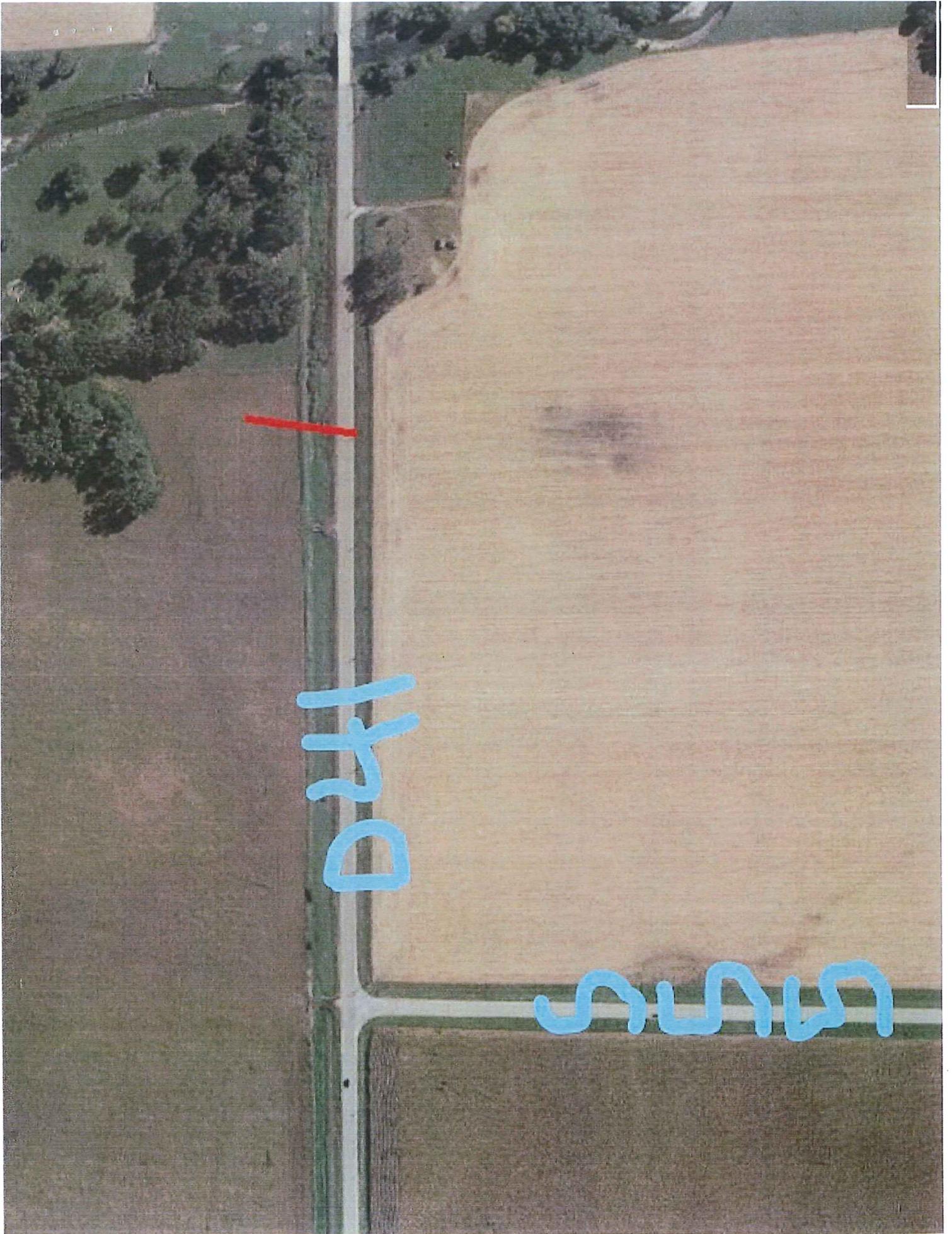
Pursuant to Code of Iowa Section 468.186, approval is hereby requested for the right, privilege and authority to construct, operate and maintain utilities on, over, across or beneath established Hardin County Drainage Districts, subject to the attached Requirements for Construction On, Over, Across or Beneath Established Drainage District. Failure to comply with said requirements shall be ground for revocation of the permit by the Hardin County Board of Supervisors.

Chad Reinholdt
Applicant Signature
Date: 6/11/18

Submit Form and Location Plan To: Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Fax (641) 939-8225
drainage@hardincountyia.gov

For Office Use Only

Application Approval:
 By: per minutes Date: 6/13/18
 Board of Supervisor Chairman, Acting as Drainage District Trustee
 APPROVED PERMIT #: 2018-8



Red line annotation on the road.

1420

1420

Lee Gallentine

From: Chad Reinholdt <c.reinholdt@midlandpower.coop>
Sent: Wednesday, October 31, 2018 9:48 AM
To: Lee Gallentine
Subject: RE: DD 124 - Utility Permit 2018-8

Lee,

I guess I'm sure on the schedule and even if they were going to do that to be honest, the best place to go on this is just give Barry a call and see what his schedule is, but I will tell you those guys are pretty busy right now it might be awhile before they get to that. Let me know if you have any questions, I'll check around to see if anyone took any pictures of the job and I'll forward them to you if they were taken.

Thanks

Chad Reinholdt

Midland Power Cooperative

Staking Technician

Cell- 515.370.1485

c.reinholdt@midlandpower.coop

1005 E. Lincoln Way, P.O. Box 420, Jefferson, IA 50129

(515) 386-4111 | Fax: (515) 386-2385

www.midlandpower.coop | Like us on Facebook!

CONFIDENTIALITY NOTICE: This communication contains privileged or other confidential information. If you are not the intended recipient or believe you have received this communication in error, please reply to the sender indicating that fact and delete the copy you received. In addition, you should not print, copy, retransmit, disseminate, or otherwise use the information contained in this message.

Midland Power is an equal opportunity provider and employer.

From: Lee Gallentine <LGallentine@cgaconsultants.com>
Sent: Friday, October 26, 2018 12:24 PM
To: Chad Reinholdt <c.reinholdt@midlandpower.coop>
Cc: 'Tina Schlemme' <TSchlemme@hardincountyia.gov>
Subject: RE: DD 124 - Utility Permit 2018-8

Chad,
Barry from your company called a few weeks ago while they were performing the utility installation and left a message. When I called him back later in the day, he indicated that they found the tile and bored the utility more than 1' below it, but the excavation was covered up. I understood and we wouldn't have had a surveyor available to go into the field with that short of notice. I did ask him when he would have everything uncovered again, but he didn't know.

To try to get this project finished out, I had a couple of questions:

- Did anybody from your company take some pictures during the installation? If so, can you forward those to me?
- Do you know your schedule to uncover the tile and expose/locate with depths your utility?

Just let us know.

Lee Gallentine

From: Chad Reinholdt <c.reinholdt@midlandpower.coop>
Sent: Thursday, November 08, 2018 1:51 PM
To: Lee Gallentine
Subject: Tile Pictures

Lee,

Hopefully these will work for you one is of the pipe we put in and the other one is the bore head under the Tile. Our wire and pipe are under the county's tile approx. one foot

Chad Reinholdt

Midland Power Cooperative

Staking Technician

Cell- 515.370.1485

c.reinholdt@midlandpower.coop

1005 E. Lincoln Way, P.O. Box 420, Jefferson, IA 50129

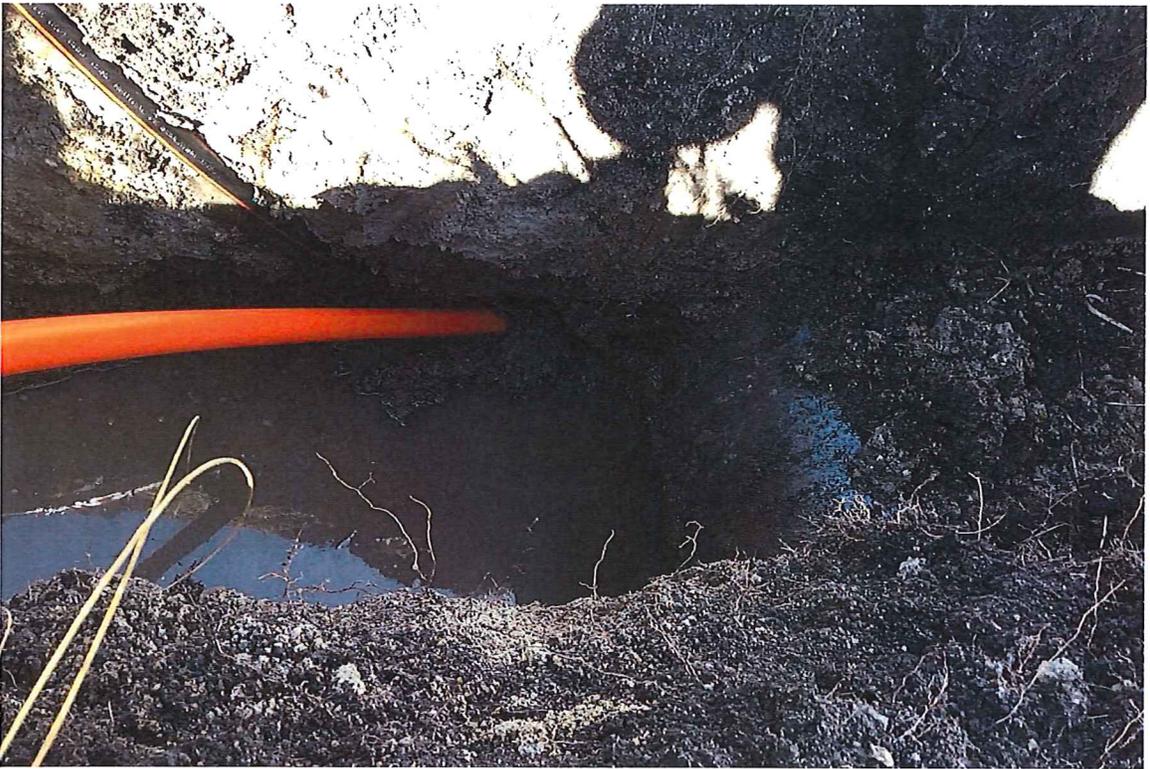
(515) 386-4111 | Fax: (515) 386-2385

www.midlandpower.coop | Like us on Facebook!

CONFIDENTIALITY NOTICE: This communication contains privileged or other confidential information. If you are not the intended recipient or believe you have received this communication in error, please reply to the sender indicating that fact and delete the copy you received. In addition, you should not print, copy, retransmit, disseminate, or otherwise use the information contained in this message.

Midland Power is an equal opportunity provider and employer.

From: Barry Munson
Sent: Wednesday, November 7, 2018 10:06 AM
To: Chad Reinholdt <c.reinholdt@midlandpower.coop>
Subject:



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

9/19/18

PROJECT NUMBER:

6913

COUNTY, ROUTE, ROAD:

DD 124

LOCATION:

D41 AND S55 TO EAST

DAYS OF WEEK:

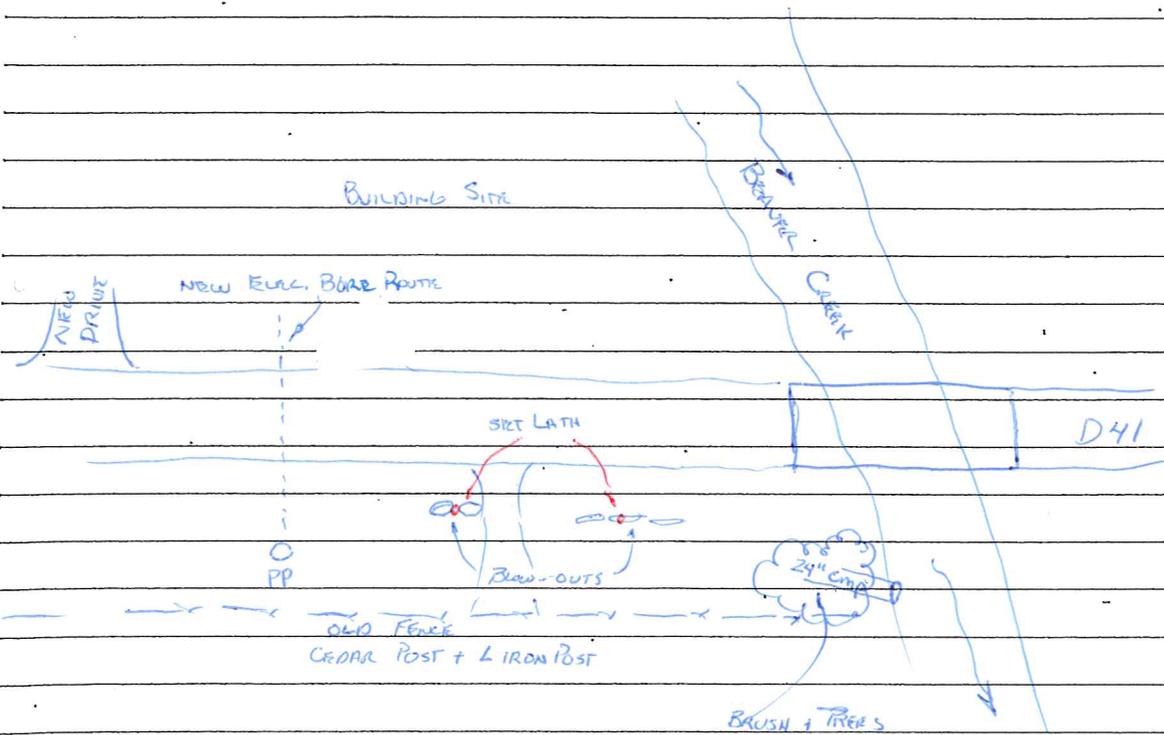
S | M | T | W | T | F | S

SHEET NO.

OF

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

FOUND 24" CMP FLOWING EAST AND FULL, SUCKING AIR. WALKED UPSTREAM ON THIS ROUTE, FOUND MULTIPLE BLOW-OUTS 4' DEEP @ TOP OF D41 BERM ON SOUTH SIDE HWY. SET LATH @ BLOW-OUTS. MARKED 20" TILE E-W. TALKED TO FARMER ON 4x4 THAT WAS BORN AND LIVES IN THE AREA, HE KNOWN THE TILE WAS ON S SIDE AND CROSSED TO N SIDE 700' W. OF S55 @ SWALE IN FIELD. POD HOLE @ TOP OF HWY D41 TO FIND TILE.



DRAINAGE DIST. NEEDS TO FIX SUCK HOLES AND MAINTAIN TREES @ OUTLET.

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

Observer's Signature:

[Handwritten Signature]

Date Prepared:

9/19/18

Reviewed by:

Engineer

Date Reviewed

24" comp cut @ BEAVER CREEK



2 LARGE SUCKLEBUSH W. OF FIELD DRIVE TO PASTURE TO SOUTH, S FLUDITCH 041, LOOKING W.



SUCK HOUS IN BRIDGE BEERM TOK



Drainage District:

H-F 1

Crossing Investigation Summary:

- Utility company (Winnebago Cooperative Telecom Association) requested to pass fiberoptic cable above (approved per District Trustees' approval) Lateral 1 tile in the NW¼ NW¼ Section 6, Township 89 North, Range 21 West. Said crossing is on the southeast side of Highway 65.
- The contractor completing said work located and exposed the top of the VCP Lateral 1 tile. CGA shot the same.
- The contractor completing said work also located the path and depth of the cable boring in the vicinity of the Lateral tile. CGA shot the same. When compared to the tile locate, utility is 4½ feet ± above the top of the Lateral tile.

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

None recorded. All work was completed by contractor under Winnebago Coop Telephone Association's employ and CGA was not on-site while work was being completed.

Additional Actions Recommended:

Signage installed was not in accordance with the permit requirements. Either they need proper signage installed or said requirement waived by the District Trustees.





HARDIN COUNTY

1215 Edgington Ave. Suite 1
Eldora, IA 50627
(641) 939-8108

HARDIN COUNTY DRAINAGE DISTRICT UTILITY PERMIT APPLICATION

Applicant Winnebago Cooperative Telecom Association
 Company Name _____
704 E Main St
 Address _____
Lake Mills Iowa 50450
 City State Zip 641 210 5809
 Applicant Contact David Arneson (641) 592 6105
 Name Phone _____
DavidArneson@WCTAtel.com
 Email _____
 Utility Type Fiber Optic Cable
 Drainage District(s) Crossed DD F-H1
 Facilities Crossed (specific tile open ditch) Tile
 Description of Work Bury Fiber Optic Cable from Mallard Ave and Hardin Rd going South 1000ft on the
East side of Mallard Ave then East 500ft.
 (Location plan of proposed utility must be attached)

Pursuant to Code of Iowa Section 468.188 approval is hereby requested for the right, privilege and authority to construct, operate and maintain utilities on, over, across or beneath established Hardin County Drainage Districts, subject to the attached Requirements for Construction On, Over, Across or Beneath Established Drainage District. Failure to comply with said requirements shall be ground for revocation of the permit by the Hardin County Board of Supervisors.

David Arneson
Applicant Signature

9-5-18
Date

Submit Form and Location Plan To
Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave. Suite 1
Eldora, IA 50627
Fax: (641) 939-8225
drainage@hardincountyia.gov

For Office Use Only

Application Approval

By _____ Date _____
 Board of Supervisor Chairman, Acting as Drainage District Trustee

APPROVED PERMIT # _____



Hardin Street

Mallard Avenue

MC-IFHH41

Hardin Street

MC-IF-444

IF-HUB

IF-CORHN

IF-CO1

1 Inch = 125 Feet

From	To	PType	Units	Feet	BM	HIB	HO	Remarks	As Staked
MC-IFHH44	IF-CORHN		BFO 144(0)	373		FO144(144)	1		Name MC-IF-40
	IF-CORHN		UD1X1.2 00P	220					WC MC-IF-40
									Each 888.4.83
									Route MC-IF-40
MC-IFHH42	MC-IFHH43	UHF (245.36x30)	BFO 144(0)	584	53		5		State Iowa
	MC-IFHH43		UD1X1.25P	5434	61(3)		18	Pavement	County Hardin
	MC-IFHH43				61(3)		42	Driveway	Section 6
	MC-IFHH43				61(3)		48	Field Drive	Range 25W
	MC-IFHH43				61(3)		50	Road	Twp 83N
	MC-IFHH43				61(3)		80	Field Drive	State St. No. 628.8.12.611

Sheet 4 of 4

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

2018-10-31

PROJECT NUMBER:

5166.4

COUNTY, ROUTE, ROAD:

LOCATION:

H-F1

DAYS OF WEEK:

S	M	T	W	T	F	S
---	---	---	---	---	---	---

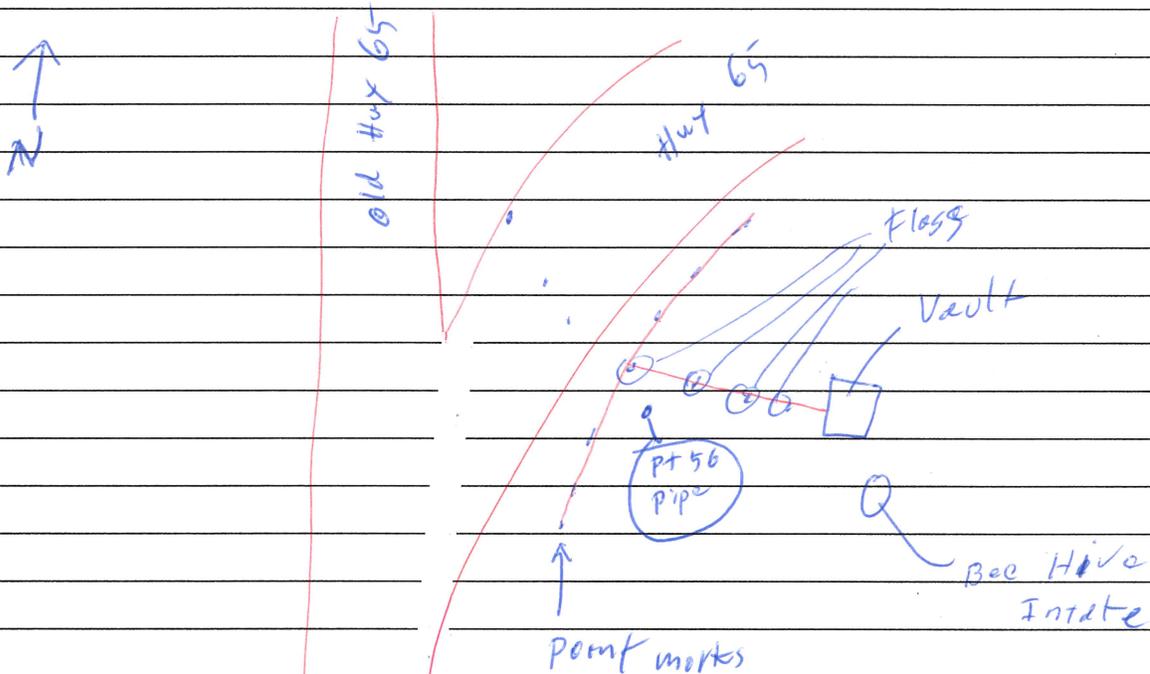
SHEET NO.

1 OF 1

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

9:15 am - set up GPS at point (4) checked into point (2) good

- shot flags, point marks, plus intake of vault



EL

GPS #56 1152.53 - 7.4 = 1145.13 to pipe

#57 1153.58 - 4.0 = 1149.58 to utility

4.45 clearance

10:15 - Left site

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

Observer's Signature: _____

Date Prepared: _____

Reviewed by: _____

Engineer

Date Reviewed: _____







5166.3 2018-10-31ZS.txt

1,3659904.394,4986390.676,1125.823, TOP TILE
2,3659812.671,4985391.777,1147.616, CPT 3/4 .2DEEP
3,3659782.051,4985357.458,1147.473, FNL WCP RRTIE/BOTTLECAP
4,3665691.249,4985363.158,1153.641, GPS MON 8039
5,3659919.120,4986488.379,1127.498, TOP 34"CLAY TILE
6,3659920.859,4986503.933,1129.966, GS TILELOCATE
7,3659931.521,4986574.343,1130.277, GS TILELOCATE
8,3659948.714,4986685.971,1130.961, GS TILELOCATE
9,3659959.924,4986781.495,1131.296, GS TILELOCATE
10,3659972.384,4986876.574,1131.568, GS TILELOCATE
11,3659987.590,4986964.160,1131.470, GS TILELOCATE
12,3660063.096,4987044.872,1132.202, GS TILELOCATE
13,3660142.930,4987089.453,1132.344, GS TILELOCATE
14,3660210.200,4987114.216,1132.592, GS TILELOCATE
15,3660241.003,4987112.277,1132.334, GS TILELOCATE
16,3659914.033,4986445.626,1129.633, GS TILELOCATE
17,3659901.584,4986357.345,1128.837, GS TILELOCATE
18,3659886.931,4986253.617,1129.264, GS TILELOCATE
19,3659880.521,4986202.991,1129.072, GS TILELOCATE
20,3659870.128,4986112.721,1128.906, GS TILELOCATE
21,3659864.739,4986027.615,1127.510, GS TILELOCATE
22,3659864.760,4985982.186,1127.287, GS TILELOCATE
23,3659865.818,4985900.461,1127.542, GS TILELOCATE
24,3659865.266,4985805.138,1127.240, GS TILELOCATE
25,3659859.922,4985768.026,1127.640, GS TILELOCATE
26,3659838.413,4985723.086,1124.635, TOP CMP
27,3659904.893,4986381.960,1127.247, TOP 34"VCP JOINT/FLASH/FABRIC/CONCCOLLAR
28,3659905.504,4986384.927,1127.231, TOP 34"VCP JOINT/FLASH/FABRIC/CONCCOLLAR
29,3659906.016,4986388.045,1127.140, TOP 34"VCP JOINT/FABRIC/CONCCOLLAR
30,3659906.590,4986390.973,1127.091, TOP 34"VCP JOINT/FABRIC
31,3659919.241,4986488.544,1127.544, TOP 34"VCP/36"RCP JOINT/FLASH/FABRIC/CONCCOLLAR
32,3659919.962,4986494.735,1127.542, TOP 34"VCP/36"RCP JOINT/FLASH/FABRIC/CONCCOLLAR
33,3659840.466,4985726.616,1121.406, CONC FLOOR
34,3659864.644,4985863.876,1123.096, FL CLAYMAIN
35,3659838.896,4985723.532,1124.708, TOP CMP
36,3659848.982,4985740.595,1124.745, TOP CMP
37,3659848.848,4985740.725,1125.080, TOP RCP TO CMP
38,3659850.255,4985748.009,1125.237, TOP RCP JOINT
39,3659851.428,4985755.881,1125.251, TOP RCP JOINT
40,3659852.316,4985763.904,1125.302, TOP RCP JOINT
41,3659853.275,4985771.757,1125.379, TOP RCP JOINT
42,3659854.147,4985779.918,1125.410, TOP RCP JOINT
43,3659855.068,4985787.920,1125.410, TOP RCP JOINT
44,3659855.746,4985795.850,1125.484, TOP RCP JOINT
45,3659856.516,4985803.776,1125.537, TOP RCP JOINT
46,3659857.342,4985811.786,1125.693, TOP RCP JOINT
47,3659858.137,4985819.901,1125.712, TOP RCP JOINT
48,3659858.899,4985827.792,1125.753, TOP RCP JOINT
49,3659859.953,4985835.664,1125.954, TOP RCP JOINT
50,3659861.022,4985843.601,1126.011, TOP RCP JOINT
51,3659862.360,4985851.743,1126.120, TOP RCP JOINT
52,3659863.880,4985859.364,1126.356, TOP RCP JOINT
53,3659849.211,4985739.533,1126.374, CONC COLLAR
54,3659863.881,4985859.418,1126.885, CONC COLLAR
55,3659864.755,4985864.225,1126.707, CONC COLLAR
56,3665541.950,4985412.455,1152.527, GS -7.4 TO TILE
57,3665544.736,4985405.705,1153.578, GS FLAG 48 IN DEEP
58,3665540.862,4985415.081,1152.329, GS FLAG
59,3665539.122,4985421.310,1152.195, GS FLAG
60,3665537.440,4985426.300,1151.656, GS FLAG
61,3665536.521,4985426.775,1151.734, VULT
62,3665535.649,4985428.358,1151.951, VULT
63,3665538.138,4985429.669,1152.089, VULT

5166.3 2018-10-31zs.txt

64,3665538.959,4985428.051,1151.854,VULT
65,3665523.738,4985398.439,1154.502,GS PAINT MARK
66,3665528.429,4985399.579,1154.427,GS PAINT MARK
67,3665535.106,4985401.917,1154.153,GS PAINT MARK
68,3665541.614,4985404.462,1153.871,GS PAINT MARK
69,3665552.616,4985407.739,1153.693,GS PAINT MARK
70,3665560.038,4985410.085,1153.688,GS PAINT MARK
71,3665568.076,4985413.040,1153.612,GS PAINT MARK
72,3665566.450,4985387.591,1156.276,GS PAINT MARK
73,3665577.533,4985378.066,1157.272,GS PAINT MARK
74,3665588.586,4985375.107,1157.788,GS PAINT MARK
75,3665530.161,4985425.880,1150.909,INTAKE W EDGE
500,3661320.981,4990609.255,1135.662,IR 12 0.3' X
501,3661471.709,4990264.892,1129.956,TOP 12" SW CPP LAT1 TILE LAT 1 (1.08' TOP TO FL)
502,3661473.994,4990263.400,1129.788,TOP 12" SW CPP LAT 1 TILE (1.08' TOP TO FL)
503,3661469.637,4990265.673,1129.933,TOP EXIST COLLPSING 14" CLAY LAT 1 TILE
504,3661478.517,4990346.619,1131.196,TOP EXIST 24" CMP TILE (2.03' TOP TO FL)
505,3661470.143,4990382.375,1133.173,SFP W RR ROW
506,3661468.435,4990404.151,1133.532,FL 34.75" STEEL CASING CULVERT 2005 CONC HDWALL
507,3661476.413,4990278.257,1129.882,EXIST 24" TILE CRUSH START
508,3661469.460,4990524.370,1132.861,FL 34.75" STEEL CASING CULVERT 2005 CONC HDWALL
509,3661315.025,4990611.107,1135.632,FENCE N-S E RR ROW
510,3661357.379,4990610.983,1134.650,FENCE N-S E RR ROW
511,3661473.526,4990152.319,1130.914,TOP EXIST 24" CLAY TILE (2.1' TOP TO FL)
512,3661473.430,4990149.619,1130.858,TOP EXIST 24" CLAY TILE (2.1' TOP TO FL)
PLUGGED CONC
513,3659783.042,4985407.784,1147.590,FENCE E-W
514,3661357.220,4990483.801,1140.821,CL E SPUR RR TRACK
515,3661554.572,4990482.128,1140.671,CL E SPUR RR TRACKS
516,3661518.700,4990383.523,1133.295,FENCE N-S W RR ROW
517,3661431.057,4990384.077,1135.323,FENCE N-S W RR ROW
518,3661473.420,4990146.942,1133.715,GS ABOVE TILE
519,3661479.495,4990355.654,1131.745,GS ABOVE TILE
8040,3665637.400,5001108.410,1155.680,GPS8040
8040_GNSS,3665637.400,5001108.410,1155.680,Autonomous Setup