

**AGENDA**  
**REGULAR DRAINAGE MEETING**  
**Monday, February 8, 2021 9:30 AM**  
**Large Conference Room**

**Due to Covid-19 health concerns, this meeting is 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 meeting by following the instructions below:**

**To access the meeting call: 1-(312)-626-6799, when prompted enter meeting**

**ID code: 997 2634 2270**

**You can also access the meeting online at: <https://us02web.zoom.us/j/99726342270?pwd=ZlIsbGxDNXFrbE1BTlozekN6TUFGUT09>**

**This will be a joint meeting with the Franklin County Board of Supervisors acting as Drainage Trustees for DD H-F 4-53.**

1. Open Meeting
2. Approve Agenda
3. Introductions/Attendance
4. DD H-F 4-53 - WO's 143 & 296/303 Discuss W Possible Action - Investigation Summaries  
This meeting will be a Joint County Discussion of Franklin County Work Order #143 and Hardin County Work Orders 296 & 303 Investigation Summaries. Franklin (control County) & Hardin County Drainage Trustees will be in attendance.

Documents:

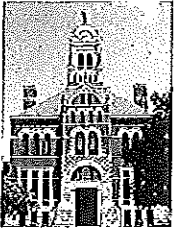
DD H-F 4-53 4-53 FRANKLIN CO WO 143 - 6500.2 - 01\_06\_20.PDF

DD H-F 4-53 FRANKLIN CO WO 143 - 6500.2 - INVESTIGATION SUMMARY  
01\_06\_20.PDF

DD H-F 4-53 WO 296 - 6500.4 - INVESTIGATION SUMMARY 01\_07\_21.PDF

DD H-F 4-53 WO 303 - 6500.5 - INVESTIGATION SUMMARY 01\_06\_21.PDF

5. Comments/Discussion
6. Possible Action
7. Other Business
8. Adjourn Meeting



Warrant #

**DRAINAGE WORK ORDER  
REQUEST FOR REPAIRS  
FRANKLIN COUNTY, IOWA**

Work Order #: 143  
Fund #: 51162

*Laterals not divided  
out for releases.*

District # F-H 4-53 Lateral 4B1, 4B2, +4B3 Date 9/6/19  
Township Lee Section 34 <sup>SE 1/2</sup> Twp 90 Rge 21

Repair requested by Mike Nissley, Farm Manager  
Address PO Box 606, Iowa Falls, IA Phone 641-648-4285  
Landowner Corabel & Jerry Mack  
Address PO Box 606, Iowa Falls, IA Phone 641-648-4285

Site available for repair now?  YES  NO Date available After harvest  
Identification of repair: Broken or plugged tile

Request taken by Julie Pralle  
Original cost of the district \$ F = \$24,540.31 (60%) Hardin = \$16,429.50 (40%)  
Potential wetlands?  YES--Repair existing tile only  
 NO--Repair and maintain tile  
Repair assigned to \_\_\_\_\_ Date \_\_\_\_\_

**"ATTENTION: Engineer & Contractor - PLEASE contact the person requesting this repair  
BEFORE beginning ANY work at this location."**

Please send statement for services to:  
**FRANKLIN COUNTY AUDITOR**  
ATTN: DRAINAGE  
PO Box 26  
Hampton, IA 50441

-----  
| Please include the GPS coordinates of the location of the |  
| repair on your bill to Franklin County |  
| (For example, 93°18'39.67 W 42°39'31.7 N) |  
Thank you!!

auditor@co.franklin.ia.us |  
Phone: (641) 456-5622  
Fax: (641) 456-6001

Latitude: \_\_\_\_\_  
Longitude: \_\_\_\_\_



**RESOLUTION 2016-18**

**FRANKLIN COUNTY  
INVESTIGATION OF DRAINAGE DISTRICTS PER REQUESTS**

NOW, on this 31<sup>st</sup> day of May, 2016, the following resolution was presented to the Board of Supervisors acting as Drainage District Trustees:

WHEREAS, said Trustees believe that it is in the best interests of drainage districts that individuals, landowners, or entities making requests for district investigation of repairs be responsible for the costs of those investigations in the event that the source of the need for repairs would be privately owned tile and not part of the drainage district facilities or no problem is found and the drainage district facility is anything other than open ditch.

BE IT RESOLVED that in the event any individual or entity makes a request to the drainage district to investigate proposed repairs which require the district to expend funds to determine the location of needed repairs, feasibility of repairs, or any other costs incurred in connection with investigating the request and that in the event in the course of investigation it is discovered that the drainage tile or related structures needing repair are not under the drainage district's control, then the individual, landowner, or entity requesting the investigation shall be responsible for payment of any expenses incurred by the district. If said investigation results in no problem discovered, said requestor is responsible for payment of any expenses incurred by the district. This does not apply to drainage district facilities that are open ditches. If the investigation in the district finds a problem with district facilities, then said district will be responsible for payment of any expenses incurred by the district as allowed by Iowa Code.

The Board of Supervisors acting as Drainage District Trustees authorize the Franklin County Auditor to prepare the necessary form for the individual, landowner, or entity to execute prior to any investigation (except open ditches) in a form necessary to carry out the intent of this resolution.

BE IT DULY ADOPTED this 31<sup>st</sup> day of May, 2016, with the vote thereon being as follows:

AYES: Eberling, MoVicker, Nolte  
NAYS:  
ABSENT/NOT VOTING:

FRANKLIN COUNTY BOARD OF SUPERVISORS

Corey Eberling  
Corey Eberling, Chairman  
Gary MoVicker  
Gary MoVicker  
Michael Nolte  
Michael Nolte

I have read and agree to the terms of this Resolution:

Carol Mark & Jerry Mark  
Ms. Michelle S. Giddings  
Requestor  
9/6/19  
Date  
F-H-4-53  
Drainage District

ATTEST:  
Michelle S. Giddings  
Michelle S. Giddings, Auditor & Clerk to Board





## Drainage District:

#4-53; Lat 4 & 4B

## Investigation Summary:

- Farm manager and tenant in the SE¼ Section 34, Township 90 North, Range 21 West reported a lack of drainage from the Laterals 4B1, 4B2, and 4B3.
- Visual observation found multiple areas of excess moisture and issues within the south half of said Section 34 and the NE¼ of Section 4, Township 89 North, Range 21 West as follows:
  - Lateral 4:
    - Ponding upstream and downstream of the Lateral 4 & Hardin Road (Highway C73) intersection.
    - Excessive Ponding near the Lateral 4 & 4B connection.
    - Excessive ponding upstream and downstream of the Lateral 4 & 30<sup>th</sup> Street intersection.
  - Lateral 4B:
    - Multiple wet areas found upstream of the 4 & 4B connection on both sides of Hardin Road (Highway C73).
    - A collapsed intake on the south side of Hardin Road (Highway C73).
    - Excess moisture near the connection of 4B & 4B4.
    - Ponding and pieces of broken tile near the intersection of Lateral 4B & the abandoned railroad.
    - Excess moisture near the connection of Lateral 4B & 4B2.
  - Lateral 4A:
    - A missing VCP wye at the connection with a private tile that is pulling soil into the Lateral tile (repaired under Hardin County Work Order 303).
    - A large amount of tile shards at the intersection of 4A and the east fenceline in the NW¼ of Section 4.
- Excavated the 15-inch VCP Lateral 4 tile upstream of its connection with the Lateral 4B tile, then moved intermittently further downstream to where it was found to be 15-inches, then 18-inches, then 20-inches in diameter. In said excavations found a large amount of debris in the tile taking up approximately 1/4 to 1/3 of the flowline. Above said debris was approximately 3-inches of water flowing slowly
- Excavated Lateral 4 again on the north side of Hardin Road (Highway C73) and found the tile to be relatively free of debris, and again, water flowing slowly at approximately 3-inches deep. At said excavation, also found a 4-inch HDPE private tile protruding approximately 2-3-inches into Lateral 4.
- Excavated the 18-inch VCP Lateral 4B tile approximately 300-feet upstream of its connection with the Lateral 4 tile and found it to have approximately 3-inches of slow-moving water in the flowline. Then excavated at the location where Lateral 4B intersects with the abandoned railroad East of Juniper Ave. and found the 15-inch VCP tile to have approximately 1 to 2-inches of debris in the flowline, with approximately 1 to 2-inches of slow flowing water above.
- All tiles broken in the process of investigation were temporarily repaired with dual wall HDPE tile of matching size and temporary fabric wrap at joints, then backfilled with on-site soil. All tiles that had an exploratory hole cut in the side were patched with engineering fabric and an HDPE tile cover, then backfilled 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:

From the observations made, it is difficult to find a definitive cause for the reported lack of drainage. However, the following items are apparent:

- There is silt/debris in the flowline of both the Lateral 4 and Lateral 4B tiles.
- There is a hump in the Lateral 4 tile, wherein the downstream limits of the exploratory excavation were found to be higher in elevation than the upstream excavations and there is very little fall in the Lateral 4 tile north of Hardin Road.

Neither of these observations by themselves are likely significant enough to be the cause of the reported problems, and current conditions make it difficult to pin down an exact location or cause. The District Trustees may consider one of the following recommended actions:

- Order CCTV inspections to be conducted at broad intervals to determine the overall condition of the tiles at issue and potentially find the cause. This may, however, be hindered by the amount of silt in the tiles at issue.
- Order more exploratory excavations at 100 to 200-foot intervals to potentially find differentials in flow, elevations, or silt that might indicate the location of problems.
- Wait until the issue becomes more pronounced so that a more definite location of the cause might be more easily found using the above-mentioned methods.



## Tabulated Contractor Time and Materials

Date	Totals	11/30/2020	12/1/2020	12/7/2020
Workman (hrs)	28 1/2	5	17	6 1/2
Backhoe (hrs)	14 1/4	2 1/2	8 1/2	3 1/4









Warrant #

# DRAINAGE WORK ORDER REQUEST FOR REPAIRS FRANKLIN COUNTY, IOWA

Work Order #: 143

Fund #: 51162

*laterals not divid  
out for releases*

District # F-H 4-53

Lateral 4B1, 4B2 + 4B3

Date 9/6/19

Township Lee

Section 34 <sup>SE 1/2</sup>

Twp 90

Rge 21

Repair requested by Mike Nissley, Farm Manager

Address PO Box 606, Iowa Falls, IA

Phone 641-648-4285

Landowner Corabel + Jerry Mark

Address PO Box 606, Iowa Falls, IA

Phone 641-648-4285

Site available for repair now?  YES  NO

Date available After harvest

Identification of repair: Broken or plugged tile

Request taken by Julie Pralle

Original cost of the district \$ F = 24,540.31 (60%) Hardin = 16,429.50 (40%)

Potential wetlands?  YES--Repair existing tile only

NO--Repair and maintain tile

Repair assigned to \_\_\_\_\_

Date \_\_\_\_\_

**"ATTENTION: Engineer & Contractor - PLEASE contact the person requesting this repair**

**BEFORE beginning ANY work at this location."**

Please send statement for services to:  
FRANKLIN COUNTY AUDITOR

ATTN: DRAINAGE  
PO Box 26  
Hampton, IA 50441

-----  
Please include the GPS coordinates of the location of the  
repair on your bill to Franklin County  
(For example, 93°18'39.67 W 42°39'31.7 N)  
Thank you!!  
-----

auditor@co.franklin.ia.us

Latitude: \_\_\_\_\_

Phone: (641) 456-5622

Fax: (641) 456-6001

Longitude: \_\_\_\_\_

RESOLUTION 2016-18

FRANKLIN COUNTY INVESTIGATION OF DRAINAGE DISTRICTS PER REQUESTS

NOW, on this 31st day of May, 2016, the following resolution was presented to the Board of Supervisors acting as Drainage District Trustees:

WHEREAS, said Trustees believe that it is in the best interests of drainage districts that individuals, landowners, or entities making requests for district investigation of repairs be responsible for the costs of those investigations in the event that the source of the need for repairs would be privately owned tile and not part of the drainage district facilities or no problem is found and the drainage district facility is anything other than open ditch.

BE IT RESOLVED that in the event any individual or entity makes a request to the drainage district to investigate proposed repairs which require the district to expend funds to determine the location of needed repairs, feasibility of repairs, or any other costs incurred in connection with investigating the request and that in the event in the course of investigation it is discovered that the drainage tile or related structures needing repair are not under the drainage district's control, then the individual, landowner, or entity requesting the investigation shall be responsible for payment of any expenses incurred by the district. If said investigation results in no problem discovered, said requestor is responsible for payment of any expenses incurred by the district. This does not apply to drainage district facilities that are open ditches. If the investigation in the district finds a problem with district facilities, then said district will be responsible for payment of any expenses incurred by the district as allowed by Iowa Code.

The Board of Supervisors acting as Drainage District Trustees authorize the Franklin County Auditor to prepare the necessary form for the individual, landowner, or entity to execute prior to any investigation (except open ditches) in a form necessary to carry out the intent of this resolution.

BE IT DULY ADOPTED this 31st day of May, 2016, with the vote thereon being as follows:

AYES: Eberling, MoVloker, Nolte

NAYS:

ABSENT/NOT VOTING:

FRANKLIN COUNTY BOARD OF SUPERVISORS

Corey Eberling, Chairman

Gary MoVloker

Michael Nolte

I have read and agree to the terms of this Resolution:

Requestor: Corbel Mark & Terry Mark, Michael P. Vandy, Aged

Date: 9/6/19

Drainage District: F-H-4-53

ATTEST: Michelle S. Giddings, Auditor & Clerk to Board

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

04/14/2020

PROJECT NUMBER:

DD WO # 143

DAYS OF WEEK:

S M W T F S

COUNTY, ROUTE, ROAD:

6500.2/DD# F-H4-53  
SOUTH OF 25th ST TO WEST  
EAST OF JUNIPER AVE

SHEET NO.

1 OF 1

LOCATION:

JDD# F-H4-53 LAT 4-B-2 WITH SW 1/4  
34-90-21 FRANKLIN

MID 20'S TO MID 30'S CLOUDY  
& WINDY

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

8:44 A.M. OBSERVER CALLED MIKE NISSELY ABOUT BROKEN OR  
PLUGGED TILE AND LEFT A MESSAGE.

9:47 A.M. MIKE CALLED BACK AND LEFT MESSAGE WITH TENANTS  
NUMBER LANDON ALDINGER 515-689-1842.

10:50 A.M. OBSERVER CALLED LANDON AND HE WOULD STOP BY  
TOD LOOK AT THINGS WITH ME.

11:10 A.M. LANDON ON SITE. LANDON SAID IN 2018 IT WAS  
WET BUT COULD STILL FARM PLACES. 2019 IT WAS  
WET ENOUGH THAT SOME SPOTS NOT PLANTED OR HARVESTED.  
LANDON SHOWED OBSERVER WATER STANDING IN FIELD  
EAST SIDE OF ACREAGE SOUTH OF 30TH STREET 532.8' EAST  
OF EAST ROW JUNIPER AVENUE WITH COUNTY BEEHIVE UNDER  
WATER WITH 85' NE-SW X 270' E NW-SE AREA OF FIELD WITH  
STANDING WATER. COUNTY MAP SHOWS JDD. F-H4-53 LAT 4B RUNS  
EAST OF 1/4 MILE LINE & WET AREA IS BETWEEN 532.8'  
700'. LANDON ALSO NOTED THAT WHEN CREW WAS  
PUTTING ON ANHYDROUS THEY DID NOT SEE ANY AREAS  
THAT WERE BLOWN OUT OR WATER VISIBLE, OBSERVER  
RODE OUT WITH FOUR WHEELER AND ONLY FOUND AREA  
THAT WAS DARK WITH NO CROP & RE WORKED. SEE -  
ATTACHED SHEET 1 AND AREA NORTH OF ABANDONED  
RAILROAD TRACKS SEE ATTACHED SHEET 2. LAT 4-B2 OR  
LAT 4B ARE NOT NEAR THESE LOCATIONS

11:40 A.M. LANDON LEFT SITE. 12:13 P.M. PICTURE # 33478

12:21 P.M. PICTURE # 3348 SEE PICTURE FOR DETAILS.

12:30 P.M. DONE WITH THIS SITE.

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

Observer's Signature:

Dean Pearson

Date Prepared:

04/14/2020

Reviewed by:

Engineer

Date Reviewed

SHEET #1

# Beacon™ Franklin County, IA

**Quick Links:**

- Property Search
- View Map

**Layers:**

- Geographic Townships
- Corporate Limits
- Roads
- Road Right of Way
- Cadastre Lines
- Lot Lines
- Road Dimensions
- Sections
- Subdivision Annotations
- Subdivisions
- Lot Annotations
- Railroad Annotations
- Railroads
- Railroad Right of Way
- Water
- Parcel Dimensions
- Parcels
- Cartography
- Enterprise Zones
- Soils
- CSR Soils
- Conservation Lands
- Two Mile Boundary
- School Districts
- Voting Districts
- Zoning
- Flood Boundary
- Drainage Districts
- Land Use
- 2017 Imagery



Parcel ID: 1434400002  
 Sec/Twp/Rng: 34-90-21  
 Property Address: [Blank]  
 District: [Blank]  
 Brief Tax Description: [Blank]

Latitude: 43.04100000  
 Longitude: -90.000000

Owner Address: Mark Corbel Revocable Trust  
 C/O Nishy and Nishy  
 PO Box 606  
 Iowa Falls, IA 50126

Area: 39.75 Acres

Class: A

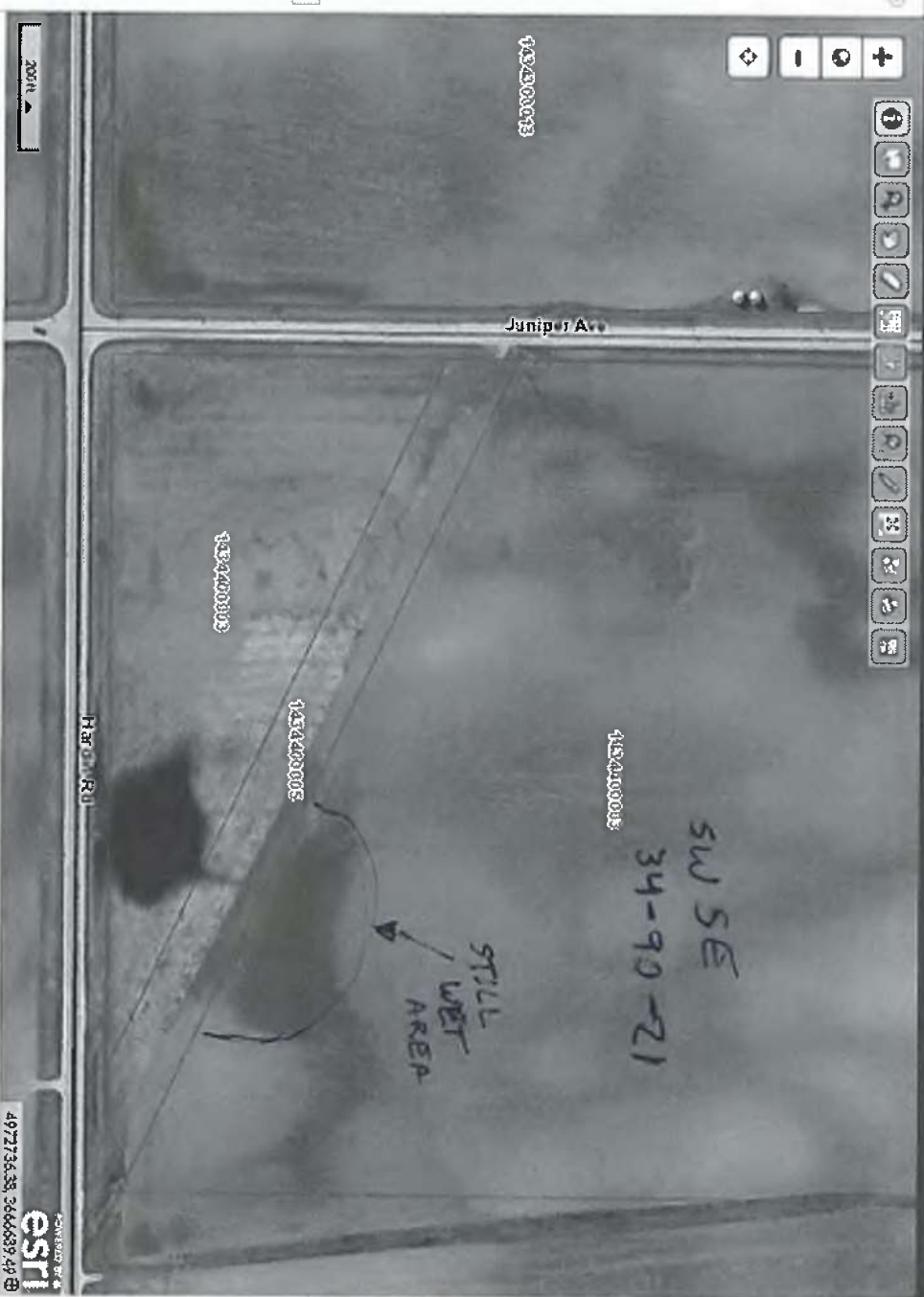
Notes: Not to be used on legal documents

SHEET 2

- Quick Links:
- Property Search
  - View Map

Layers:

- Geographic Township
- Corporate Limits
- Roads
- Base ROW
- Cadastre Lines
- Lot Lines
- Road Dimensions
- Sections
- Subdivision Annotation
- Subdivisions
- Lot Annotation
- Railroad Annotation
- Railroads
- Railroad ROW
- Water
- Parcel Dimensions
- Parcels
- Cartography
- Enterprise Zones
- SOLE
- CSR Soils
- Conservation Lands
- Two Mile Boundary
- School District
- Voting Districts
- Zoning
- Flood Boundary
- Drainage Districts
- Land Use
- 2017 Imagery



Parcel ID: 143440002  
 Sec/Twp/Rng: 34-90-21  
 Property Address:  
 District:  
 Brief Tax Description:

Alternative ID: a  
 Class: A  
 Acreage: 39.75  
 NE SE  
 (NOTE: Not to be used on aerial documents)

Owner Address: Mark Corabel Revocable Trust  
 C/O Nisly and Nisly  
 PO Box 606  
 Iowa Falls, IA 50125

497273638 3666639 49  
 esri

Result:  
 Parcel ID: 143440002  
 Owner: Mark Corabel Revocable Trust  
 C/O Nisly and Nisly (DEO)  
 Acres: 39.75  
 View Report | Soil Report | Geology Report



04/14/2020  
12:13

N-S SEE SHEET #2  
PICTURE # 3347 IS LOOKING SOUTH AT 255' X 72' E-W WET  
AREA THAT WAS REWORKED & WET AT ONE TIME, LAT 4-BZ OR  
LAT 4-B NOT NEAR THIS AREA ACCORDING TO MAP



PICTURE # 3348 IS LOOKING NORTH AT 72' E-W X 255' N-S  
AREA THAT WAS WET AND HAS BEEN REWORKED. LAT4B-2  
OR LAT4B NOT IN THIS AREA



↑  
N



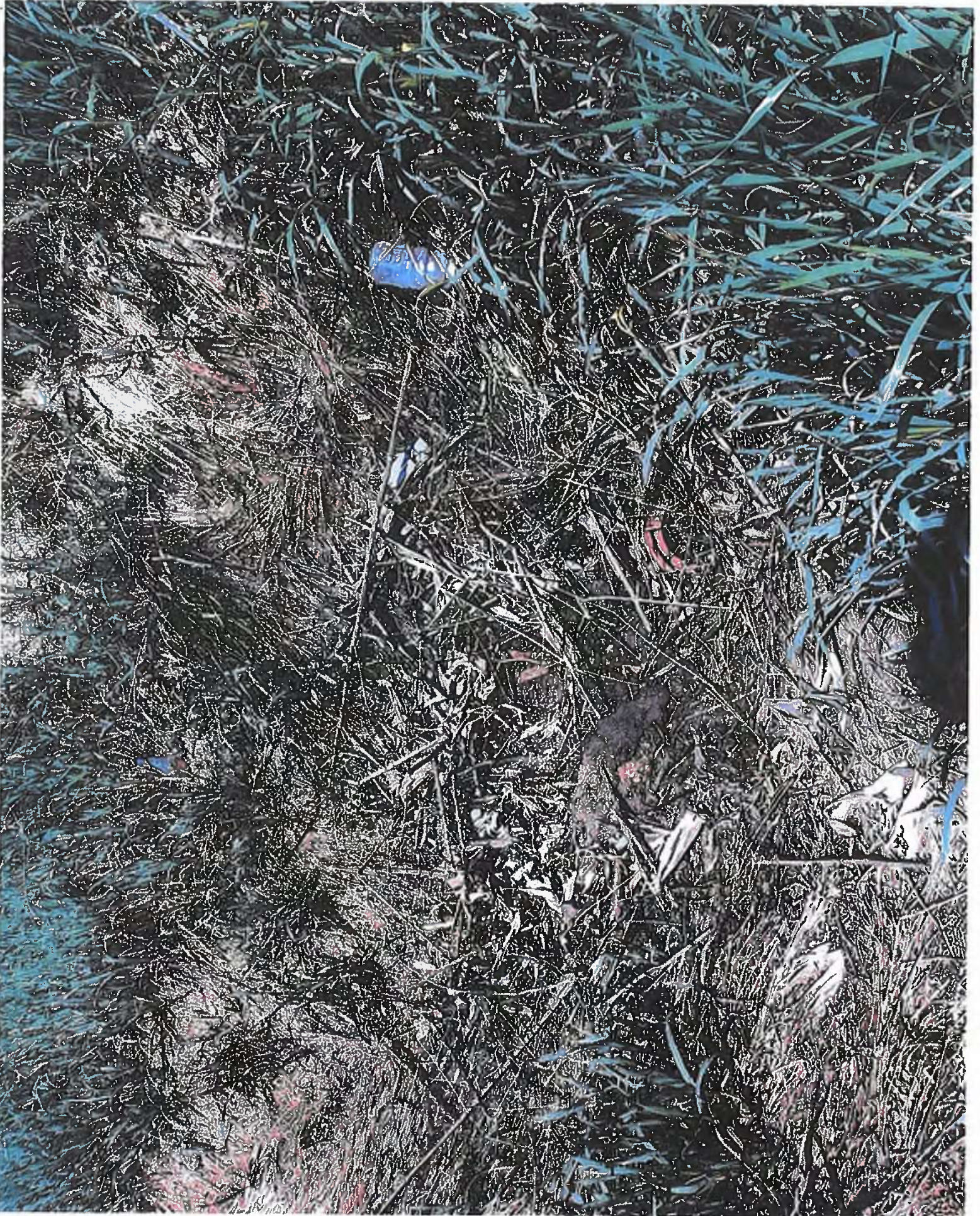
Problem Area @ LAT 4 / LAT 4B CONNECTION



LOOKING DOWNSTREAM ON LAT 4B PASS AUSTREES + COTTONWOOD



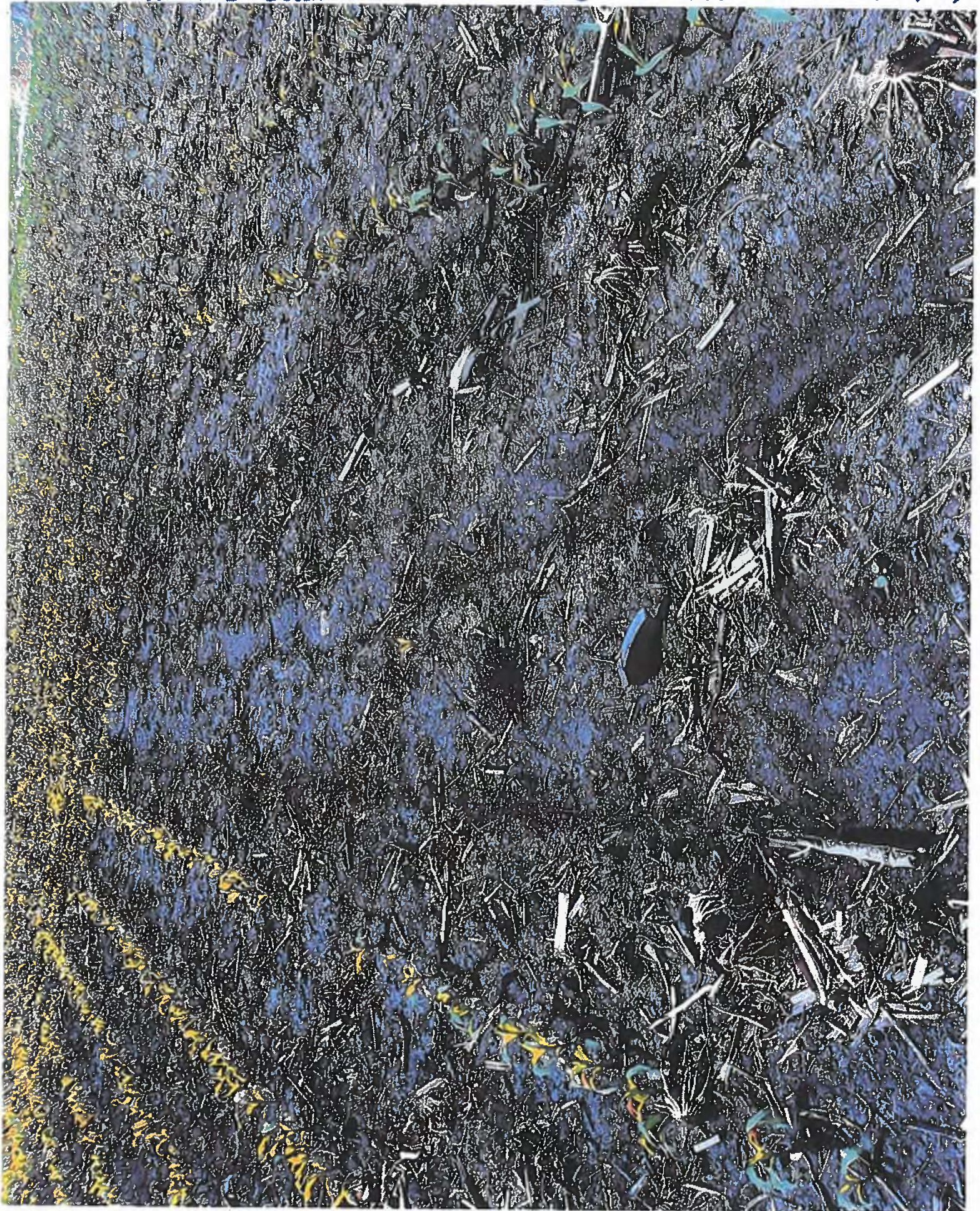
COLLAPSED INTAKE ON LAT 40, S. SIDE HARDIN ROAD (HMA) C73



LOOKING DOWNSTREAM ON LAT 4/B FROM JUNIPER ST. (N-5)



LOOKING DOWNSTREAM ON LOT 4B @ OLD RR. TIM CHARD (Purple)

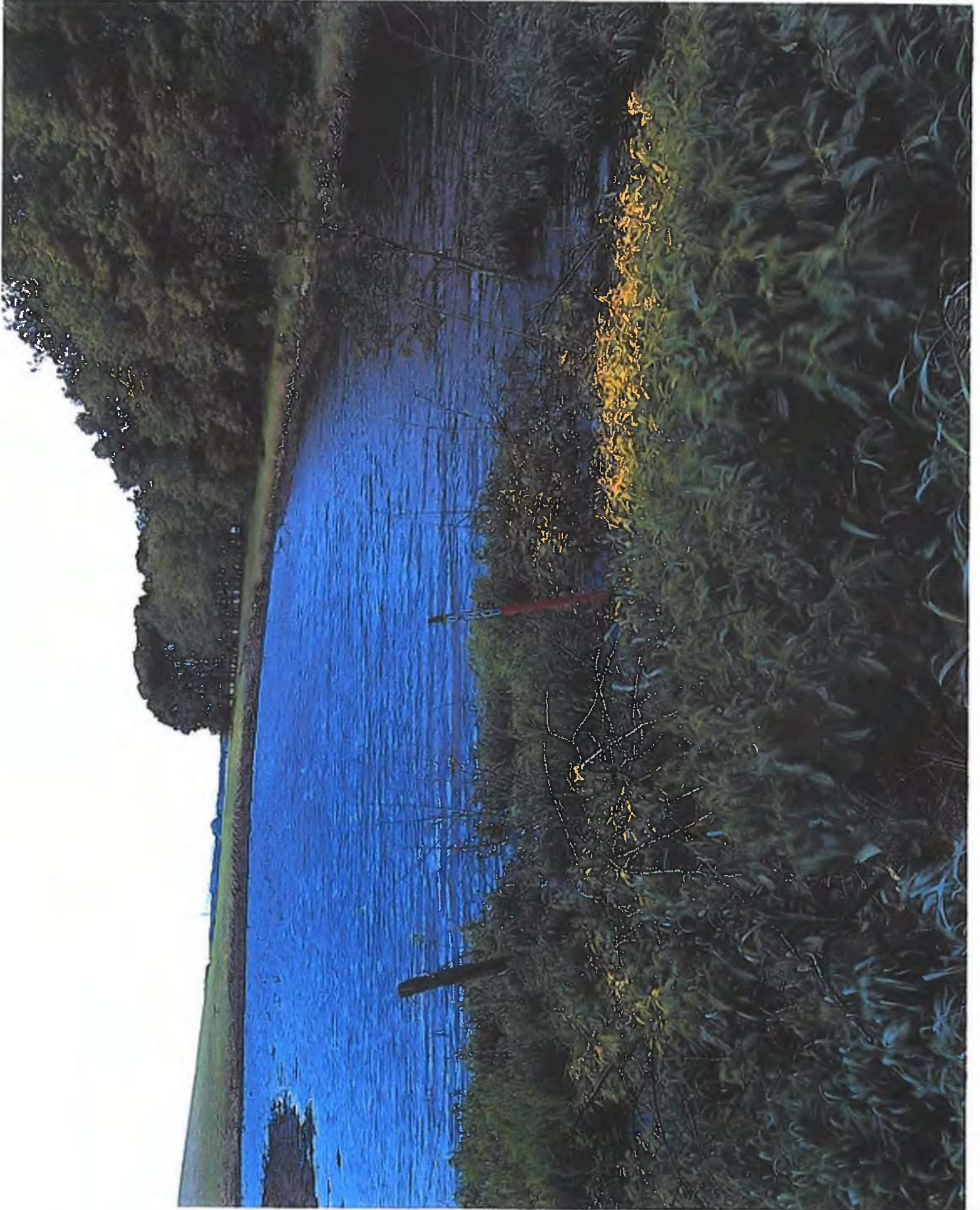


Looking upstream on LAT413 @ OLD RR

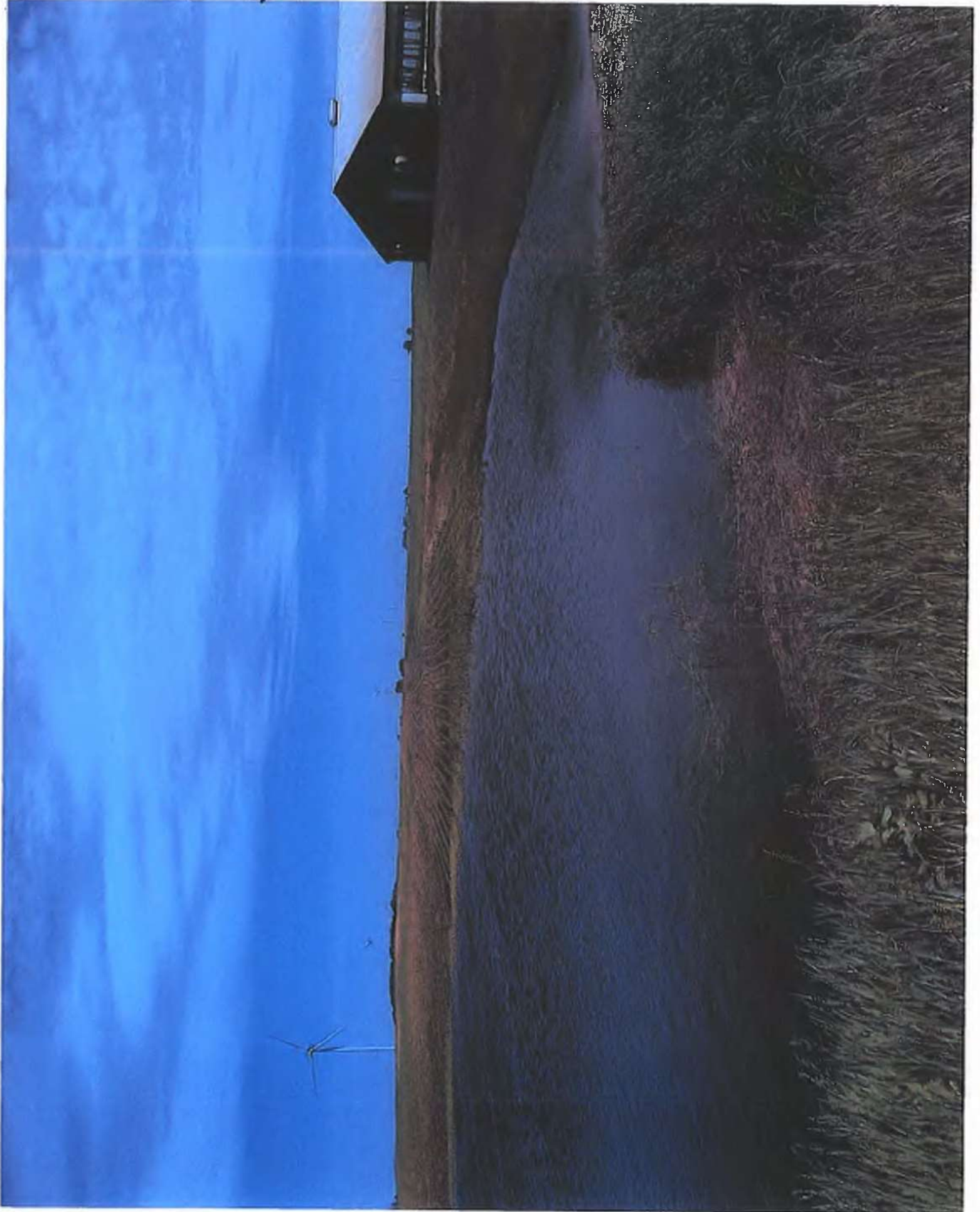




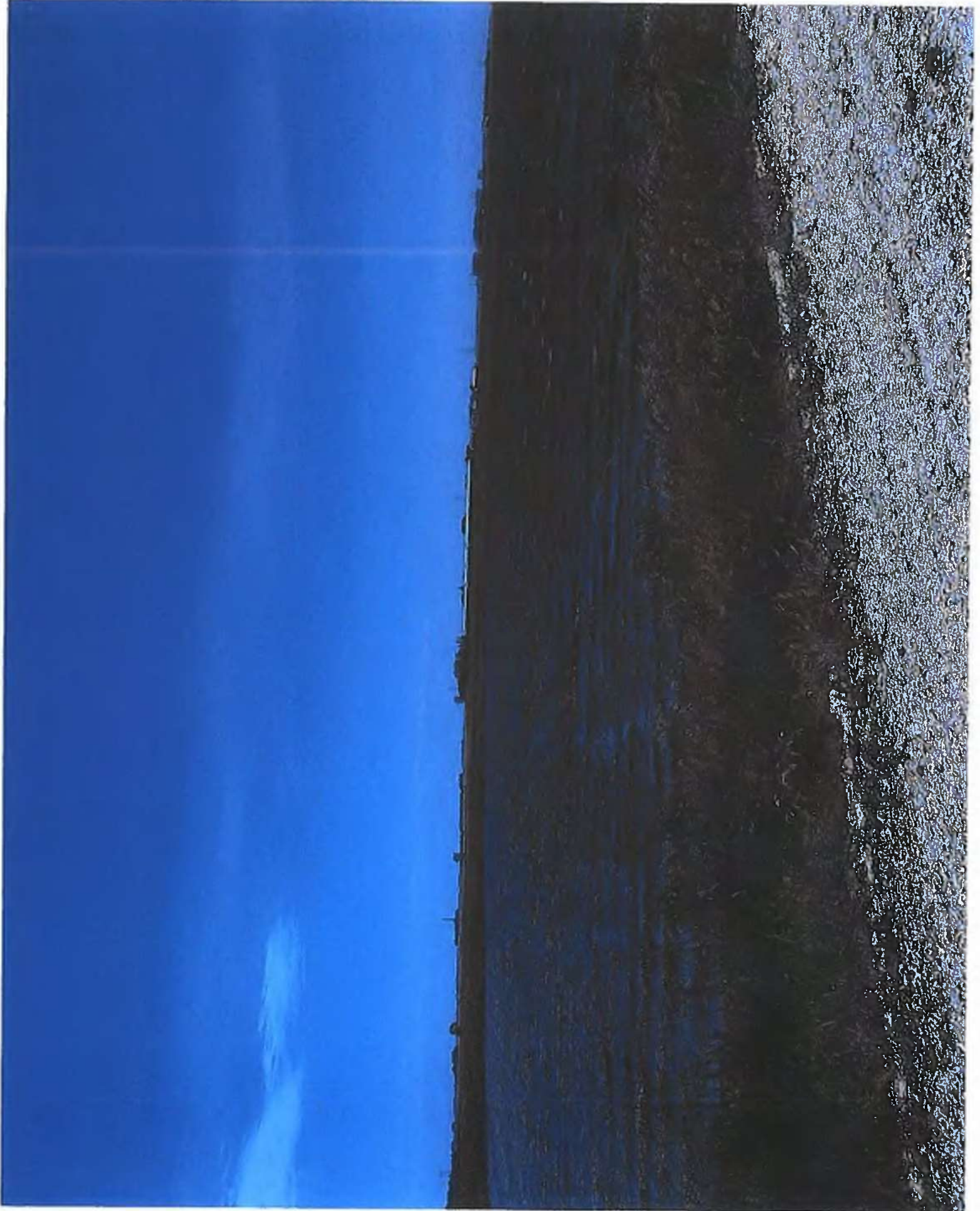
LOOKING UPSTREAM ON PRIVATE LINE IN DD5 @ 30TH ST.



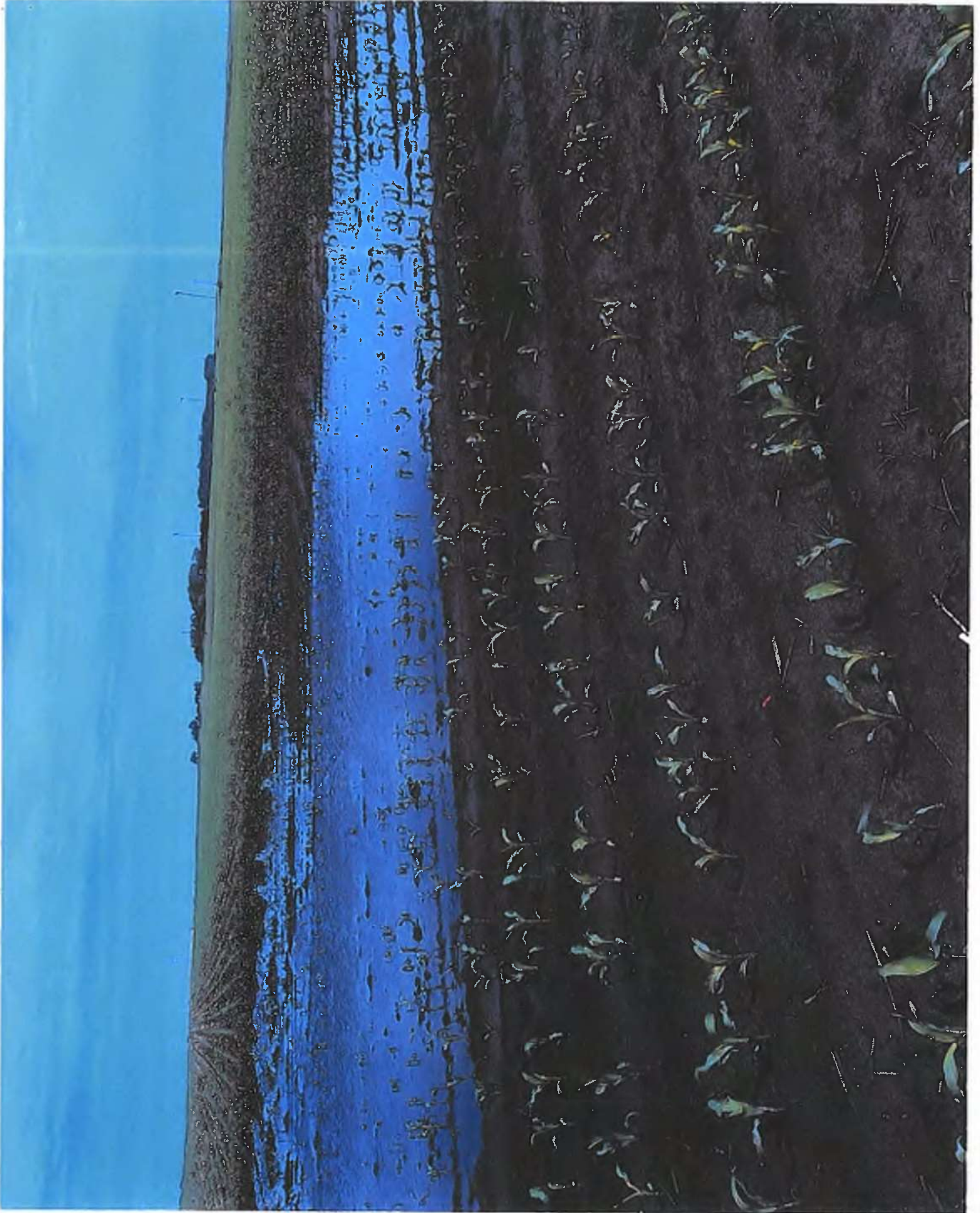
Looking upstream on Lat 4 @ 30th St.



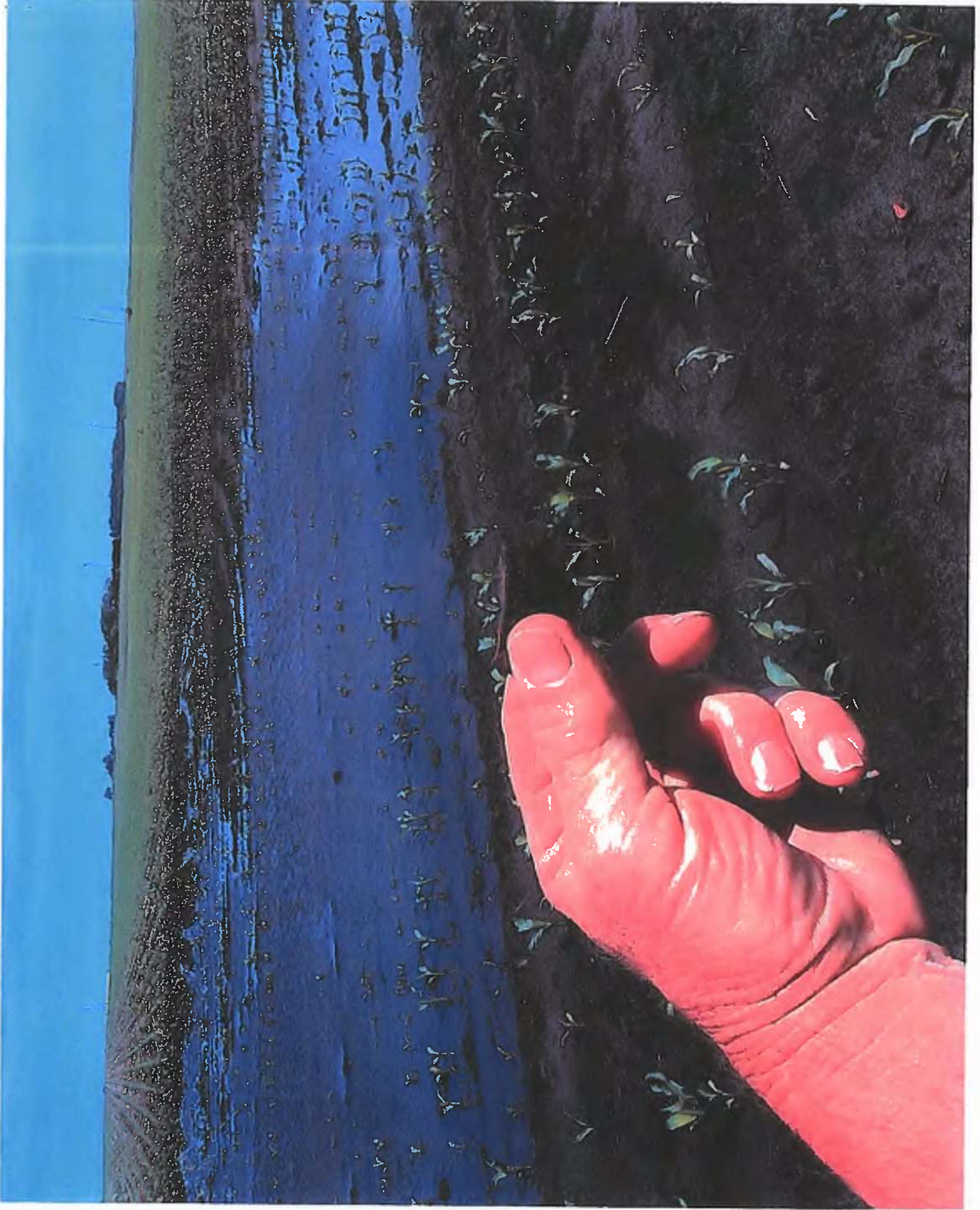
LOOKING DOWNSTREAM ON LAT 4 @ 30TH ST.



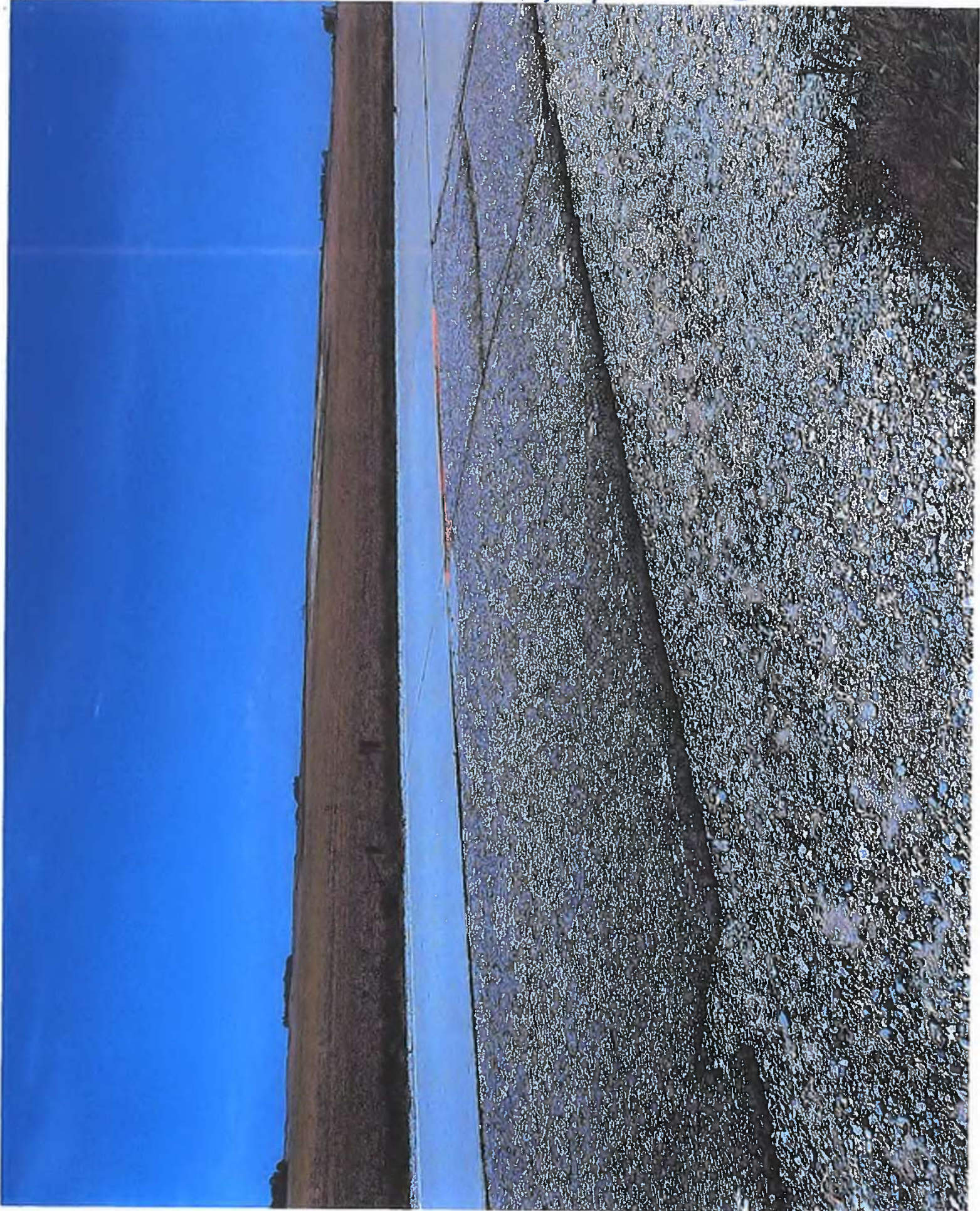
LOOKING UPSTREAM ON LAT4 @ C73



LOOKING UPSTREAM ON LAT 4 @ C73, LOTS OF TILIA CITRARDOS



LOOKING DOWNSTREAM @ LAT 4, REPAIR IN C73



OUTLET AREA FOR JDD 4-53, CANT FIND EASILY, CANT HEAR WATER



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

6/12/20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

6500.2

COUNTY, ROUTE, ROAD:

DD F.H 4-53

LOCATION:

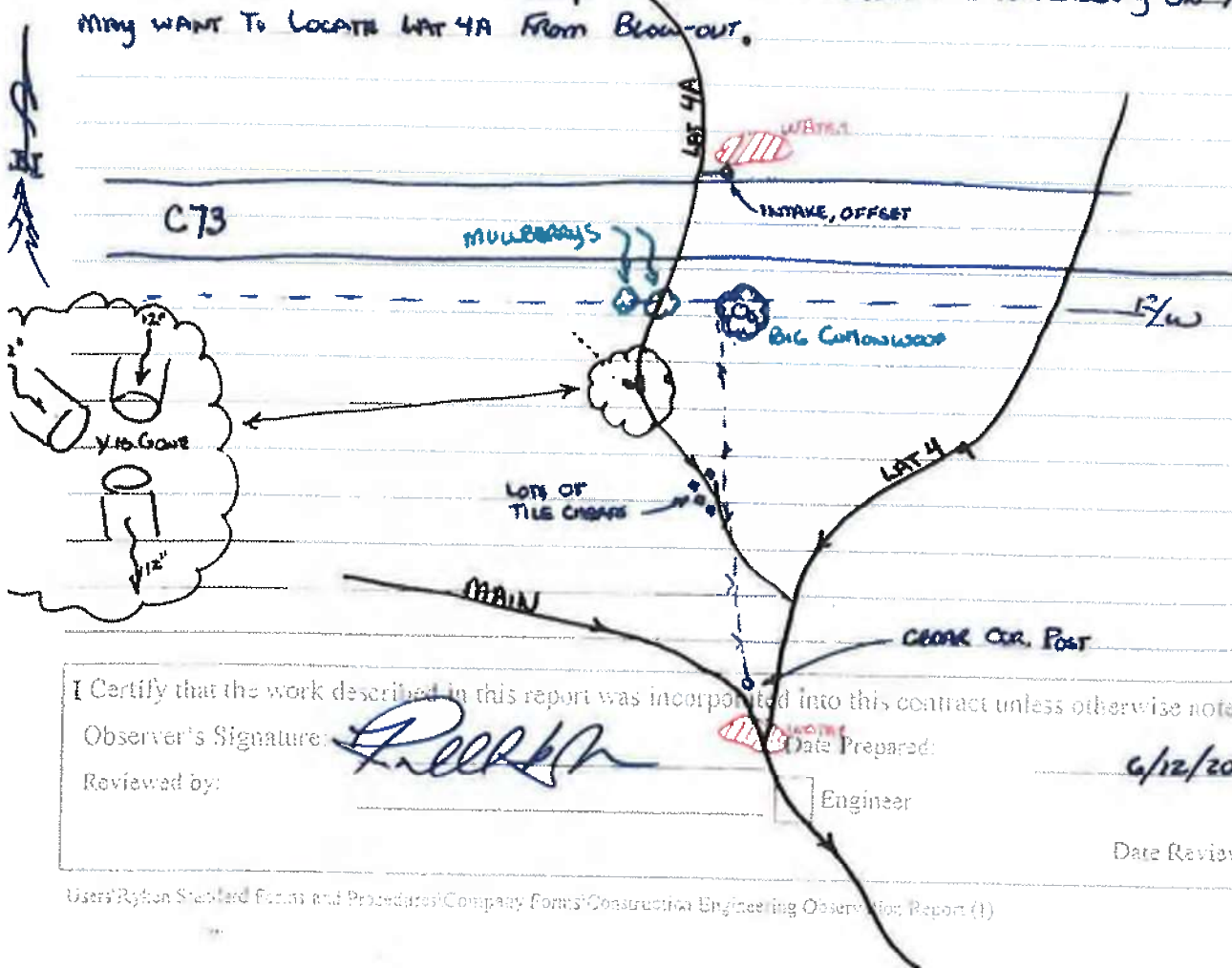
HARDIN ROAD SOUTH

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

Sunny, 70°, Calm, drying day

Parked on S. Side Hardin Rd. (C73), Walked to Blow-out in Field Found 12" x 12" x 12" Clay Y Gove. Looks Like Farmer was Digging Hole and Exposed Tile. Lat 4A is Visibly Flowing, Priv. Lat to NW, Not so much. Tile is Full 1" Above Tile Top. Walked downstream to Lat 4A - Lat 4 Connection. Lots of Tile Channels on Surface, No Water Standing. Walked downstream to Lat 4 - Main Connection, Some Water Standing, No Blow-outs. Walked back to C73, Lined up 12" Clay Lat 4A to NE to Mulberry Tree @ R/W, Cottonwood Tree to East may be @ 100'. Walked North across C73, Found Wet Spot/Tile Channels and 6" Steel Intake in N Ditch of C73 (E-W) across from Cottonwood Tree (that has Bicycle in Crown,

Repair Blow-out with man. HOPE "Y", Pump up with short sticks of HOPE/long. Columns, Rock. Tile is 3' deep. Remove @ least the Mulberry on R/W may want to locate Lat 4A from Blow-out.



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

Observer's Signature:

*[Handwritten Signature]*

Date Prepared:

6/12/20

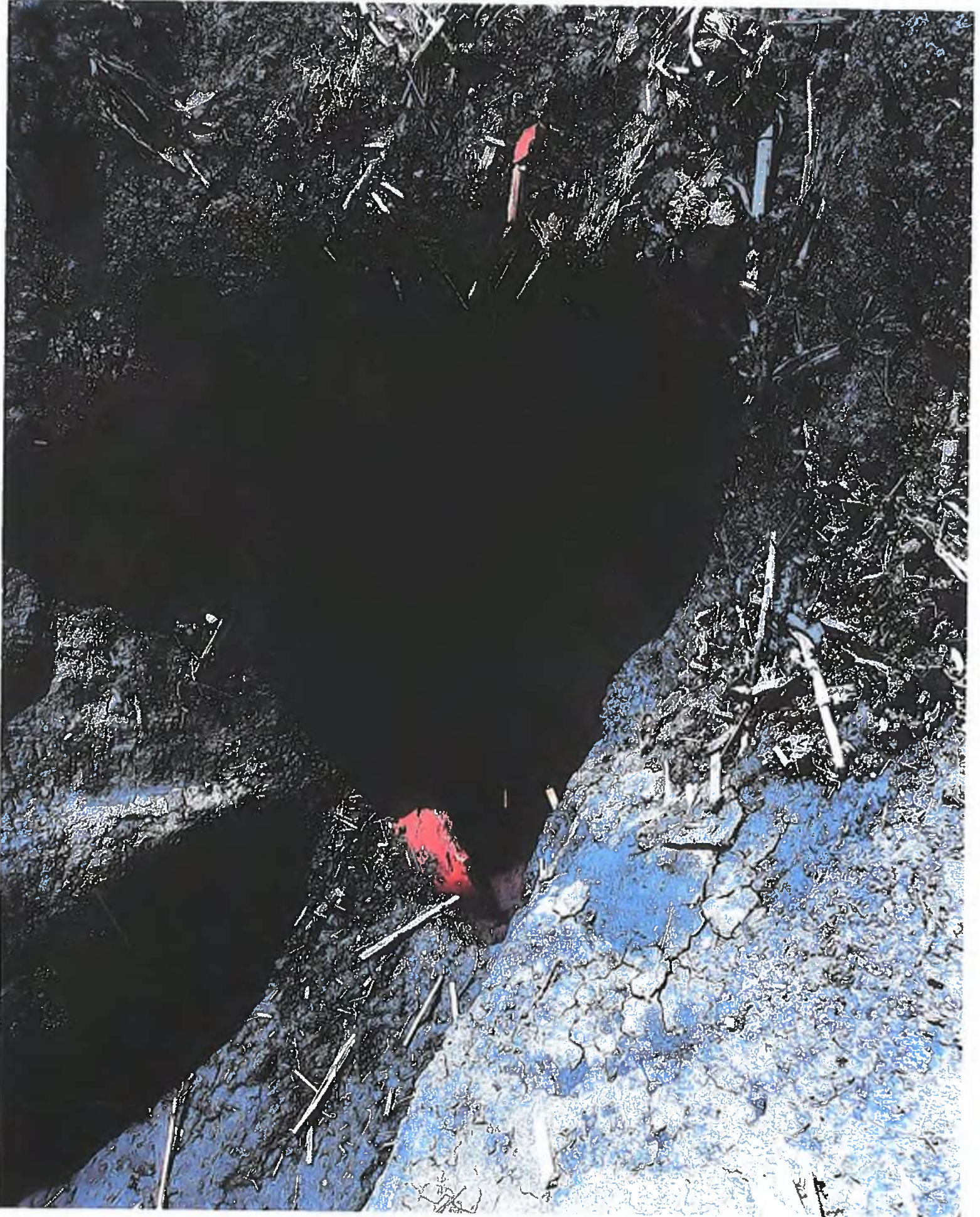
Reviewed by:

Engineer

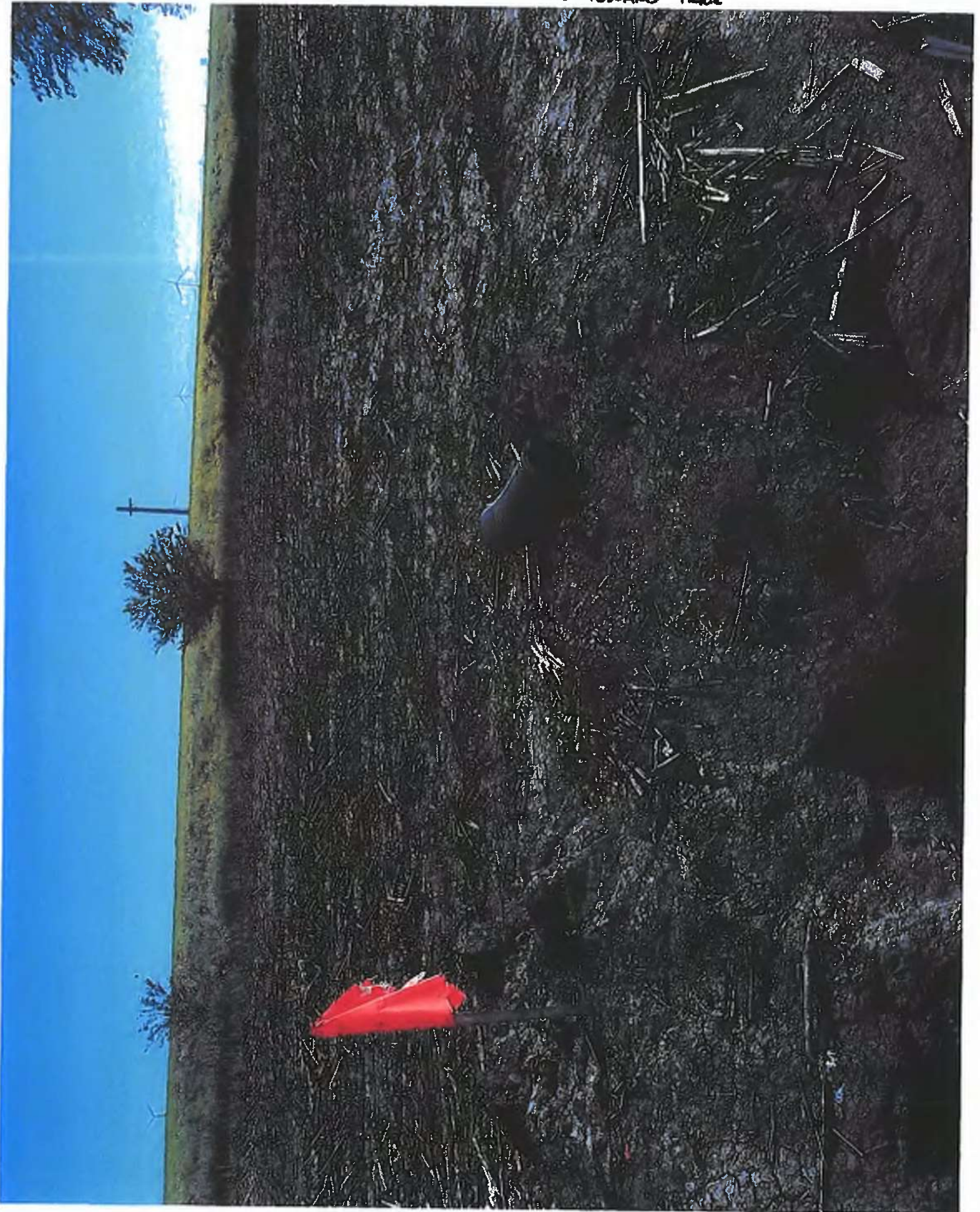
Date Reviewed



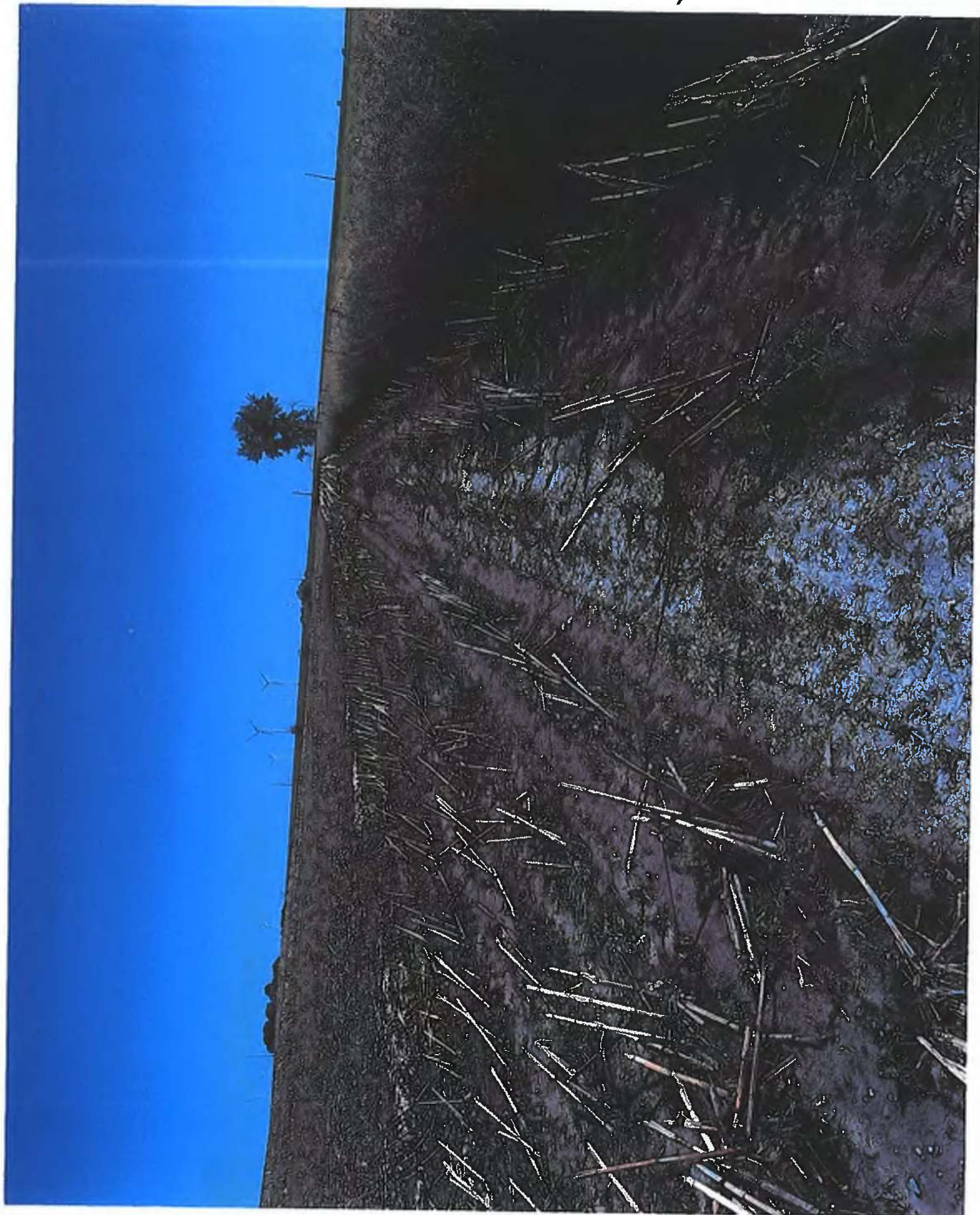
MISSING "Y"



LOOKING N. LAT 4A HEADS TOWARD TREE



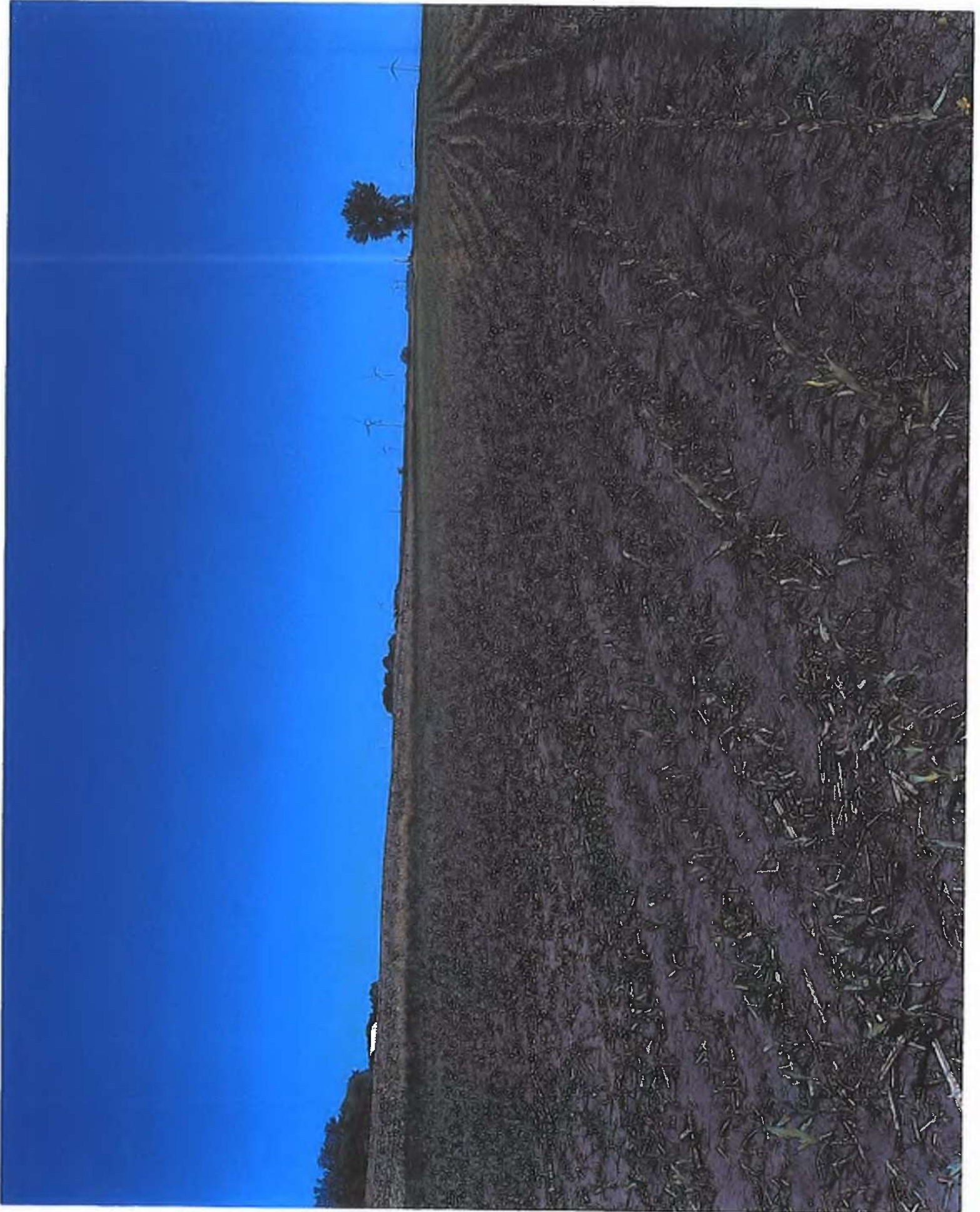
LOOKING N. ALONG FENCE @ TIRE/FENCE XING LATHA



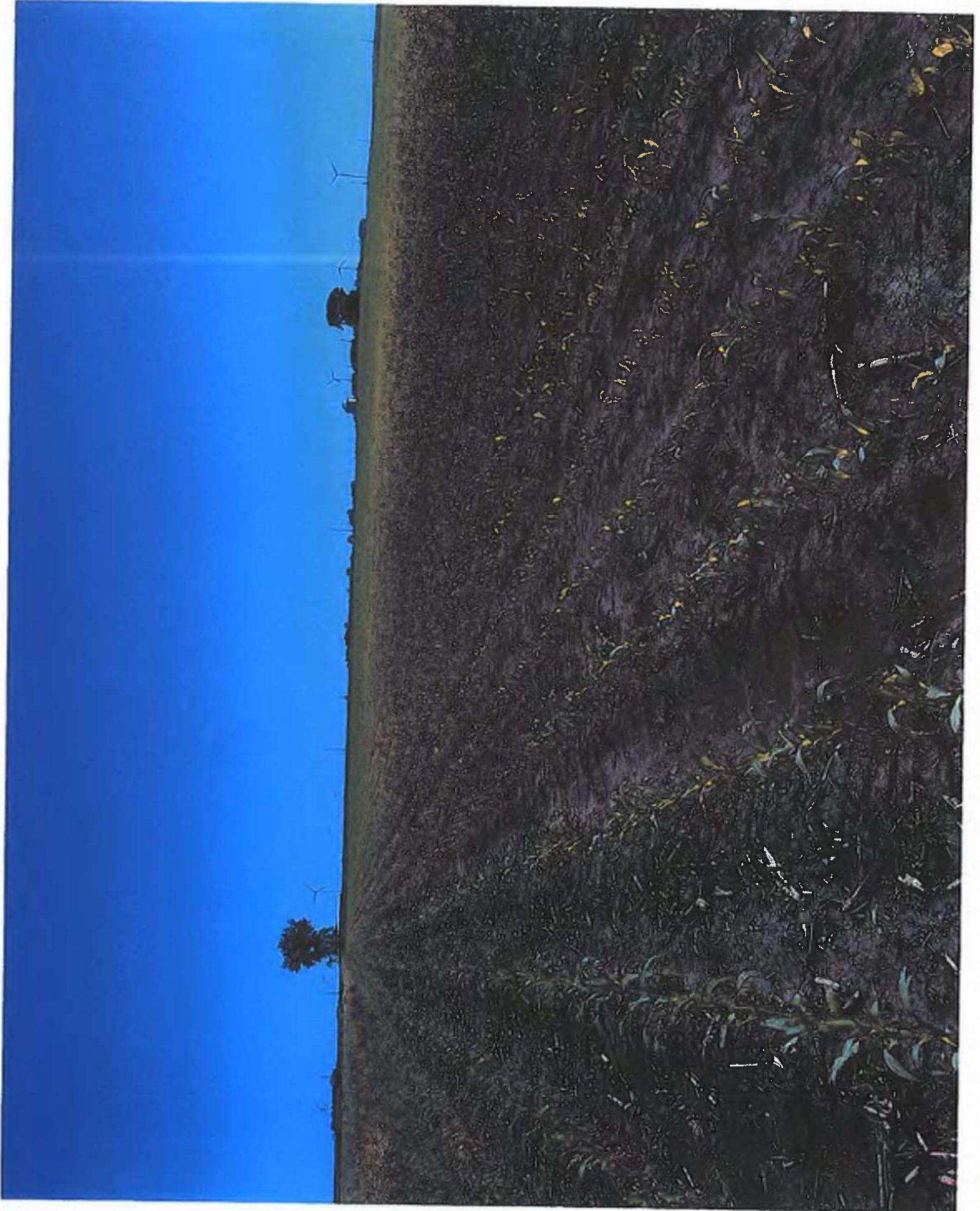
LOOKING NE ON LAT 4 ROUTE @ LAT 4A CONNECTION AREA



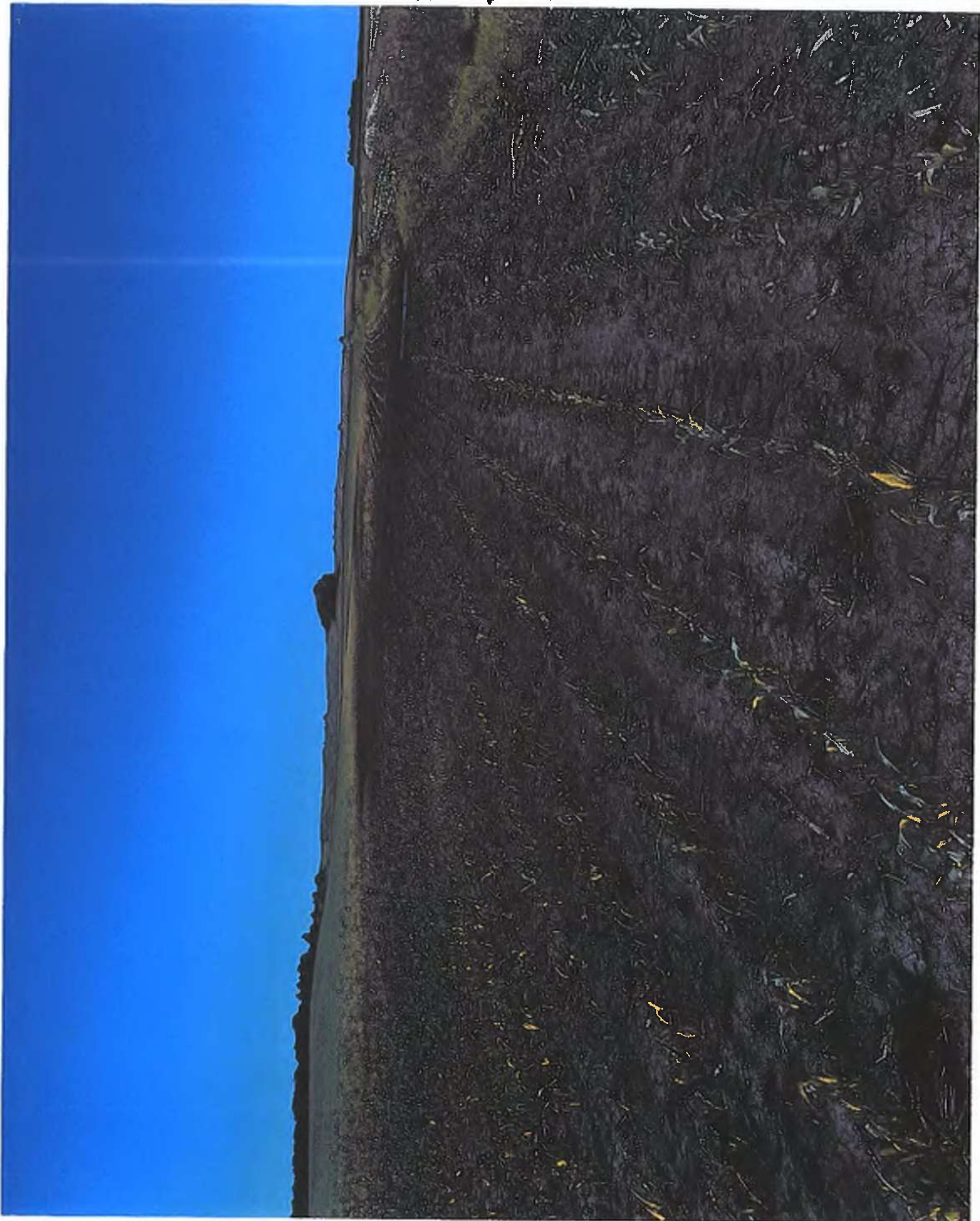
LOOKING NW @ LAT 4A ROUTE FROM LAT 4



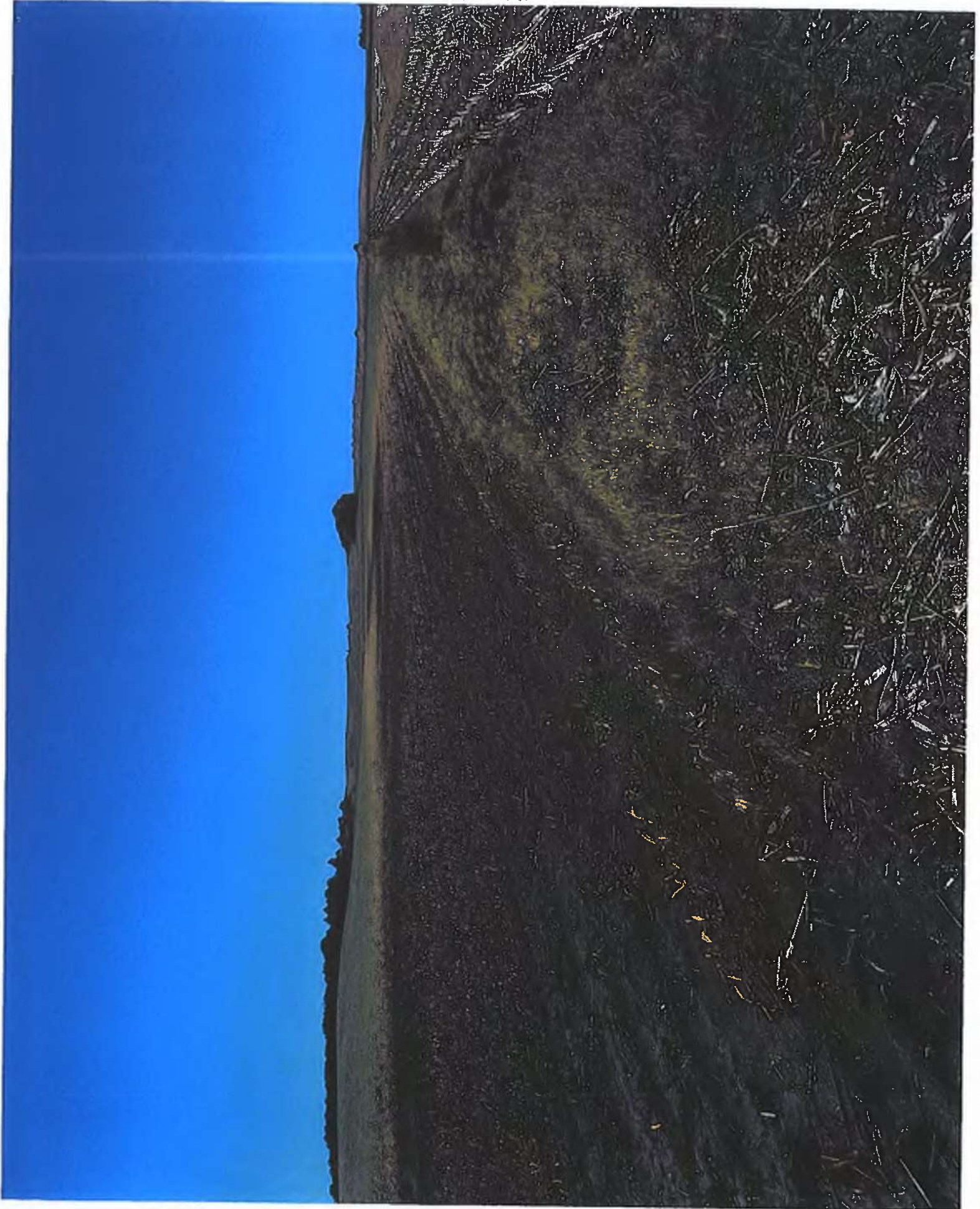
Looking N. down Fence



Water Stagnant over Top main

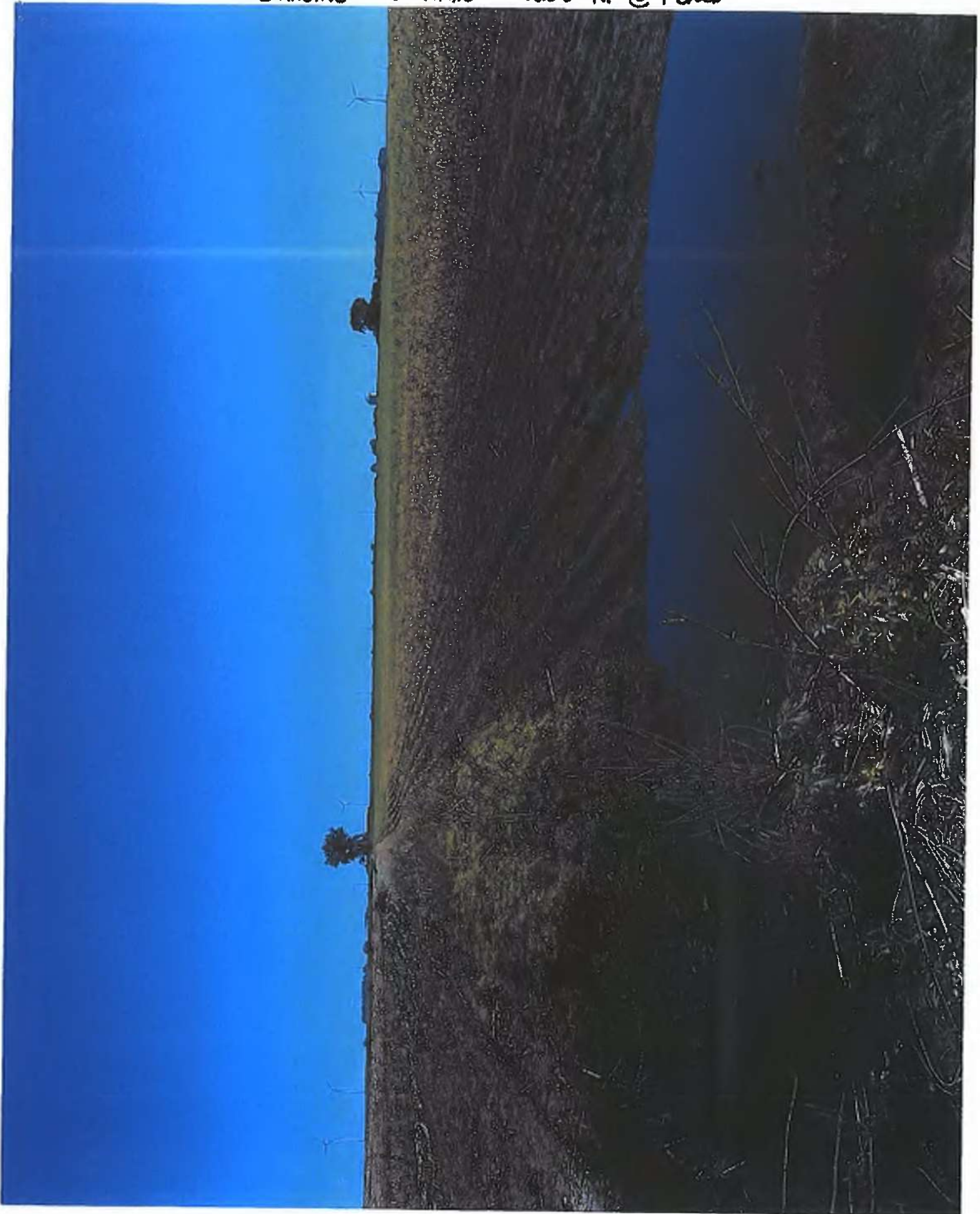


LOOKING SE @ MAIN ROUTE

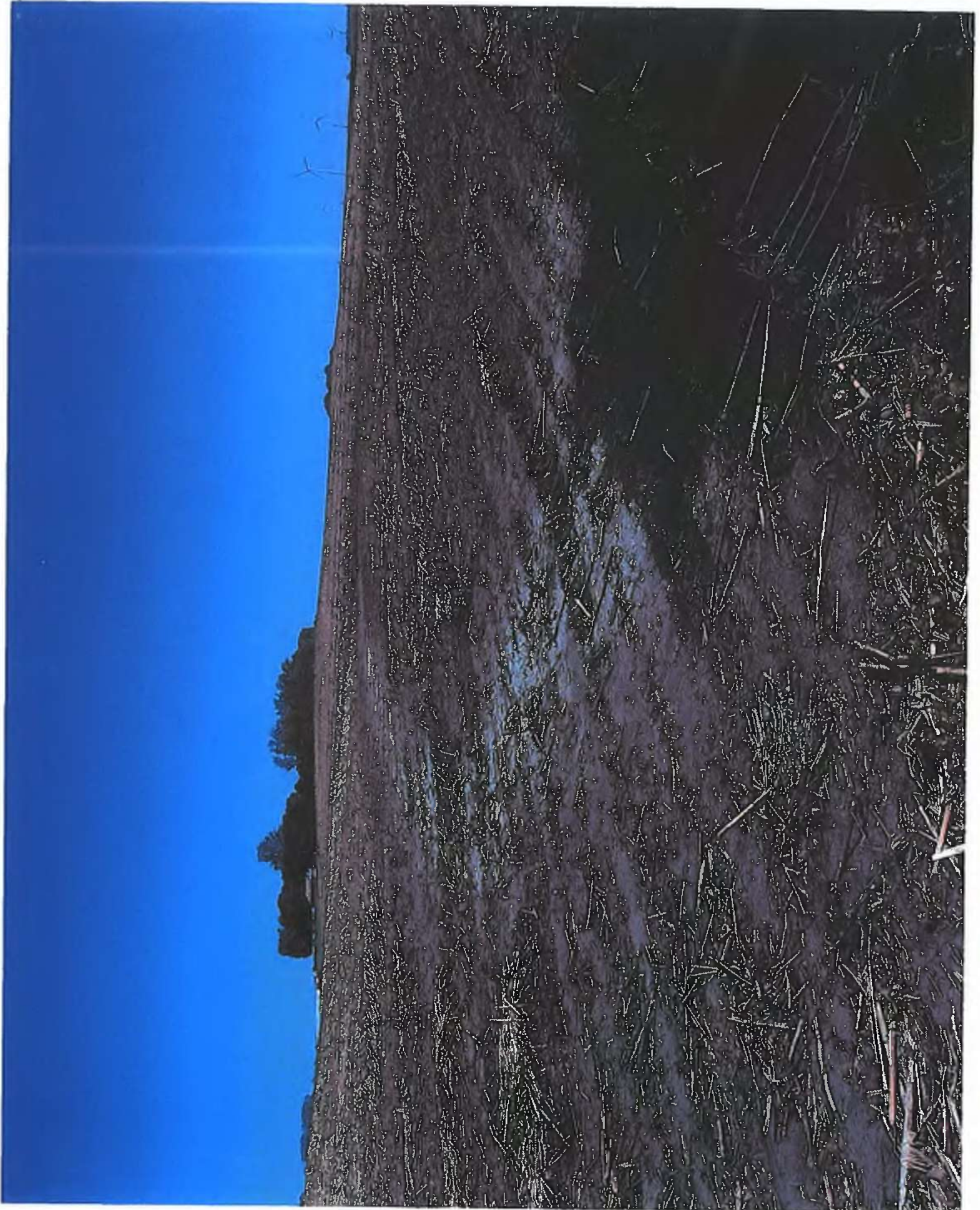




STANDING ON MAIN LOOKING N. @ FENCE



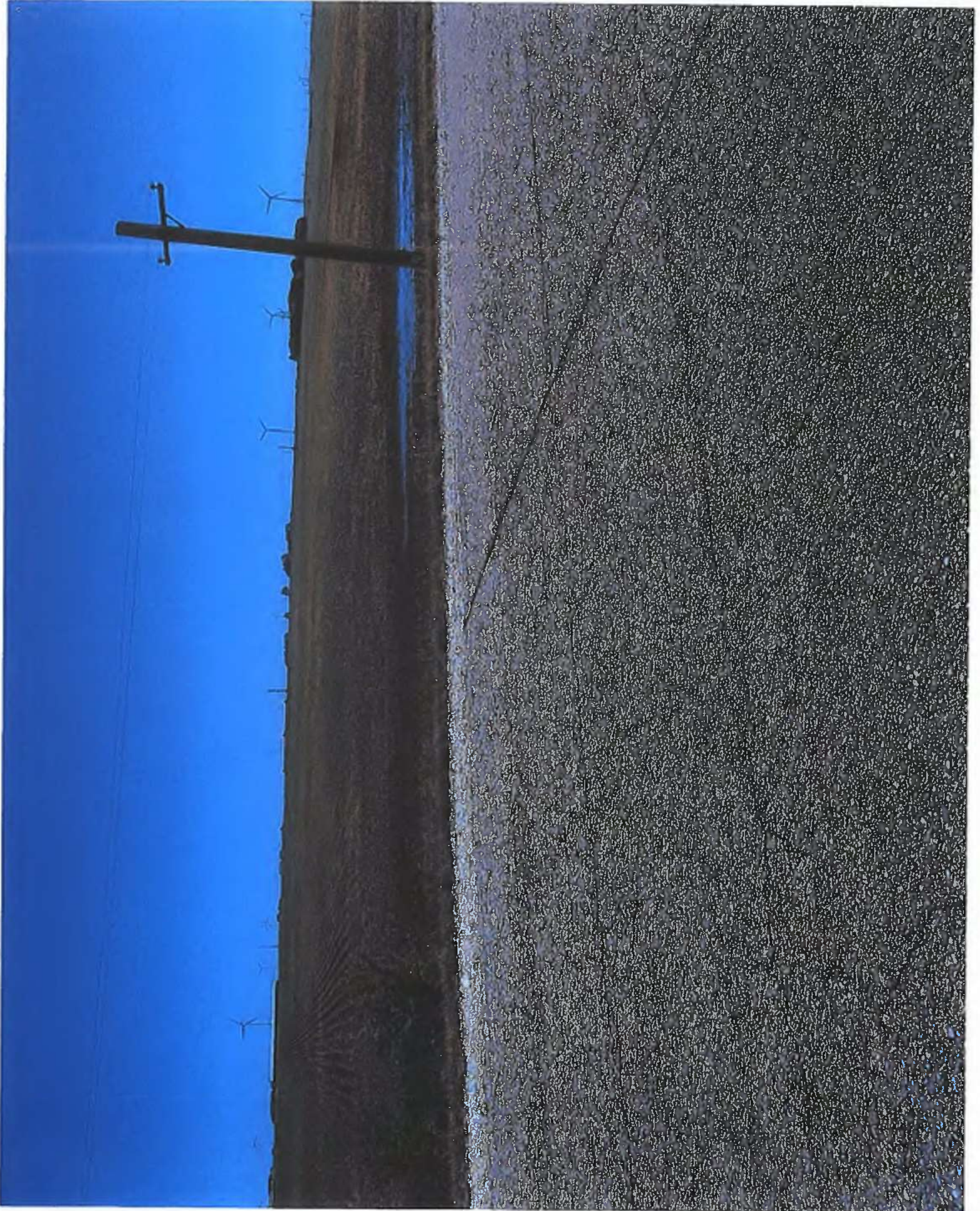
MAIN ROUTE



COTTONWOOD TREE E. OF LAT 4A @ S. R/W Hwy



LOOKING N. ON LAT 4A



GRAND PIPER ON INTAKE OFFSET NEEDS WORK



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11-30-20

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF

PROJECT NUMBER:

6500,2

COUNTY, ROUTE, ROAD:

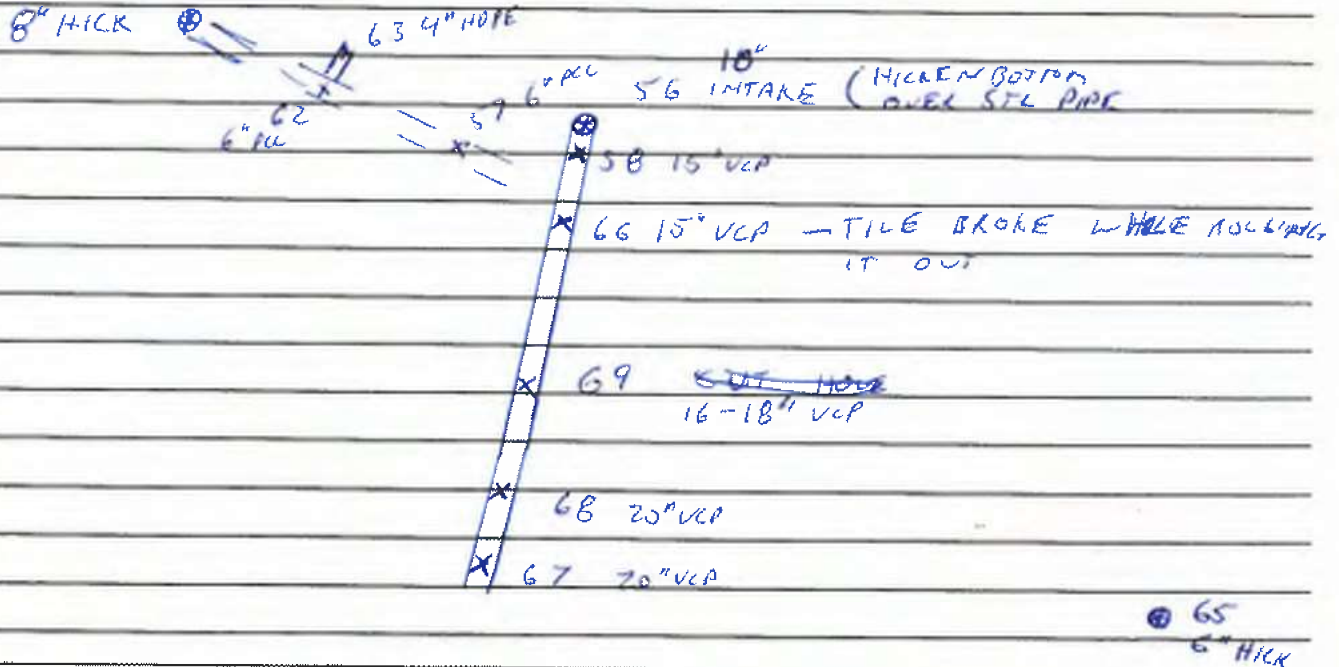
DD F-H 4-53

LOCATION:

N OF C-73 + W OF JUMPER

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

- 1:30 STARTED EXCAVATING ON W SIDE OF INT. #56  
FND 6" PCC TILE (DRY) @ #57 EXCAVATED  
EMERGE + FND A TEE #62 OF PREVIOUS 6" PCC TILE  
+ A 4" HDPE #63 HEADING N. PCC TILE APPEARS TO BE  
HEADING TO 8" INTAKE @ #64
- 2:15 STARTED EXCAVATING ON S. SIDE OF INT @ #58  
FND 15" VCP TILE RUNNING N-S @ #58 + #66  
LOCATED S. TO PT #67 TILE IS TIGHT AT THIS LOCATION  
STUCK A TILE PROBE FLAG DOWN CRACK + IT CAME UP  
DRY. TILE @ 66 IS SITTING 1/2 FULL OF WATER NOT FLOWING
- 3:50 STARTED EXCAVATING @ 67 FND 20" VCP @ #68  
FND 16" OR 18" VCP @ #69



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

Observer's Signature:

*[Handwritten Signature]*

Date Prepared:

12-1-20

Reviewed by:

\_\_\_\_\_

Engineer

Date Reviewed

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

12-1-20

PROJECT NUMBER:

6500.2

DAYS OF WEEK:

S M D W T F S

COUNTY, ROUTE, ROAD:

DD FH 4-53

SHEET NO.

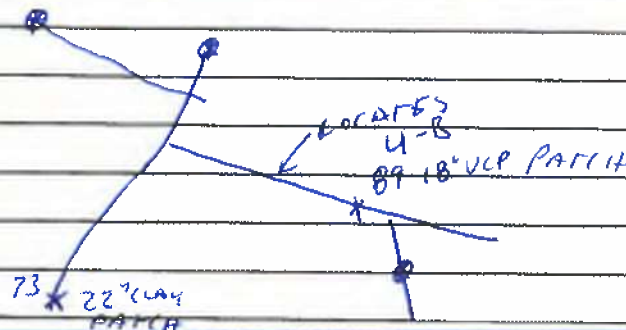
1 OF

LOCATION:

N. OF C-73 + W. OF JUNIPER

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

- 8:15 ARRIVED ON SITE SET UP BASE @ #2 (GAS METER 8022)  
CUT A HOLE IN THE TOP OF TILE @ 69 TILE HAS  
HAS ROCKS IN FLOW LINE W/ 3" OF SLOW MOVING WATER
- 9:30 STARTED LOOKING FOR TILE @ N ROW OF C-73 FND  
22" VCP @ # 73 TILE IS FLOWING SLOWLY @ 3" DEEP  
A 4" FIELD TILE IS STICKING INTO TILE @ 2' ± FURTHER  
N.
- 12:00 STARTED LOOKING FOR TILE @ INT #65 FND 5" CLAY  
TILE + STARTED LOCATING FND TILE @ # 79, 80, + 83  
RAN LOCATOR N.
- 2:00 FND TILE @ # 89 CUT HOLE IN TOP TILE HAS 3" OF  
WATER AND IS FLOWING SLOWLY
- 3:00 CREW BLEW A HOSE ON THE BACKHOLE AND HAD TO  
REPAIR IT. I SCOUTED THE 6 NW QUA OF THE  
INTERSECTION OF JUNIPER + C-73 FOUND A 8" HICKY-  
BOTTOM INTAKE W/ A HOPE TILE RUNNING N-S 3' E OF  
INTAKE @ 90
- 4:45 PICKED UP BASE AND LEFT SITE CREW WAS GOING TO  
BACK FILL HOLES



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

Observer's Signature:

*Chris King*

Date Prepared:

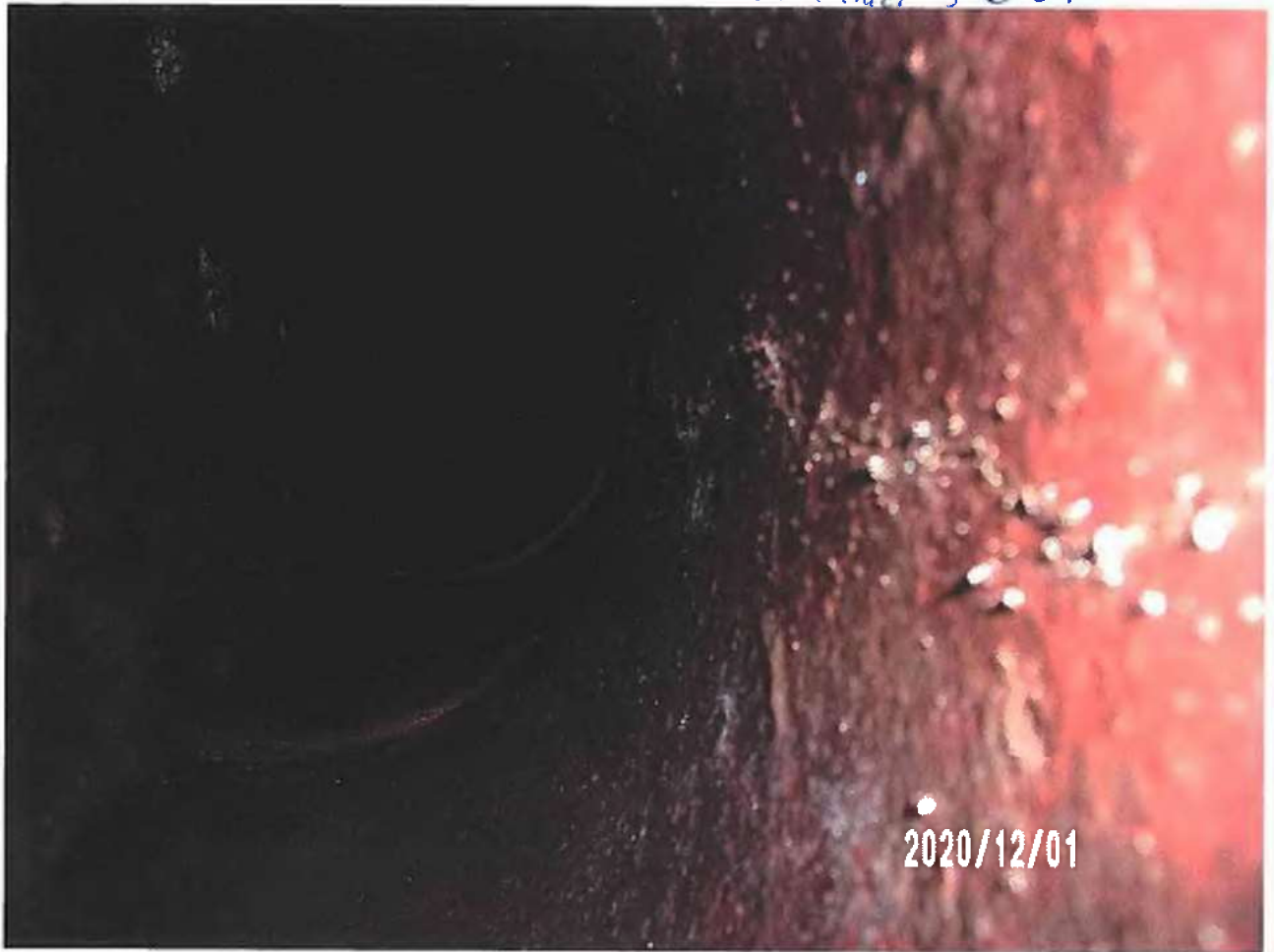
12-1-20

Reviewed by:

Engineer

Date Reviewed

LOOKING S @ 69



2020/12/01



2020/12/01

LOOKING N @ 69



LOOKING N@69



2020/12/01



2020/12/01

LOOKING S@73

LOOKING N @ 73



LOOKING N. @ 73

LOOKING N @ 73



2020/12/01



2020/12/01

LOOKING N @ 73

TILE @ 73



LOOKING W @ 89

LOOKING E @ 89



2020/12/01



2020/12/01

LOOKING E @ 89

LOOKING E @ 89



HOE @ 89

PATCH @ 89



2020/01/15

PATCH AT 89

LOOKING E @ 90





CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

12-7-20

PROJECT NUMBER:

6500,2

COUNTY, ROUTE, ROAD:

NE JUNIPER/C-73

LOCATION:

LAT B-4

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

8:40 ARRIVED ON SITE 2 MAN CREW (RUSS/FRANK) W/ 1 BACKHOE + 1 TRUCK CREW SAID THAT THEY HAD DRY FIT THE PATCH IN HARDIN CO. THEY WERE WORKING ON REPAIR @ 66

9:15 CREW STARTED DIGGING ON OF RR + FND A 10" CLAY (#91) RUNNING N-S THIS TILE IS FULL OF DIRT FND 15" CLAY TILE RUNNING N-S OPENED TILE @ 92 TILE HAS 1-2" OF DEBRIS + WATER IN THE BOTTOM OF TILE THE REST OF THE TILE IS IN GOOD CONDITION. CREW PATCHED TILE @ 92

CREW PATCHED TILE @ 73 + 69

CREW PATCHED BRO REPAIRED BROKEN TILE @ 66 W/ A 2' PIECE OF HOPE DUAL WALL TILE + WRAPPED IT W/ FABRIC.

12:00 CREW MOVED TO OTHER JOB

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

Observer's Signature:

*[Signature]*

Date Prepared:

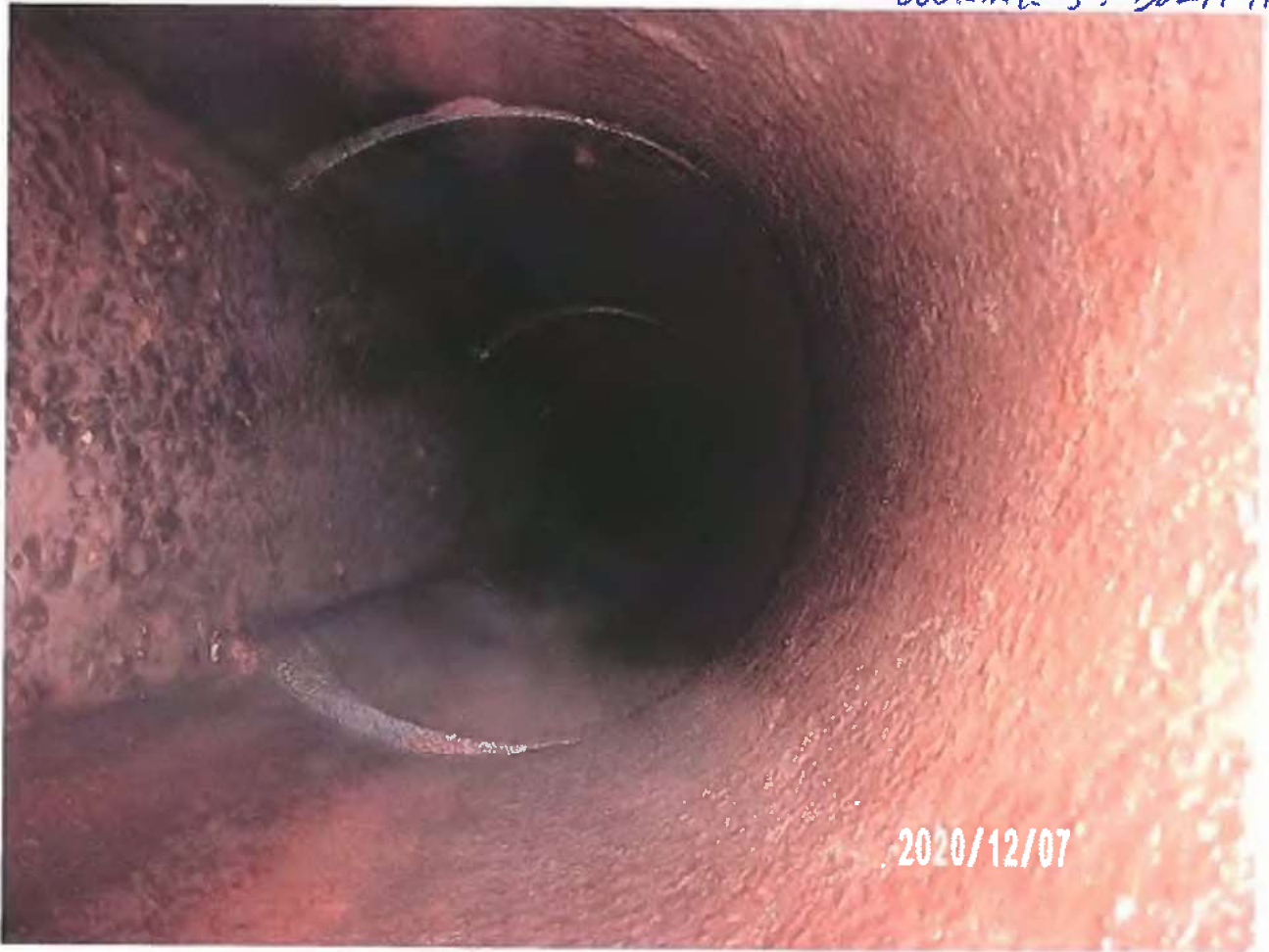
12-7-2020

Reviewed by:

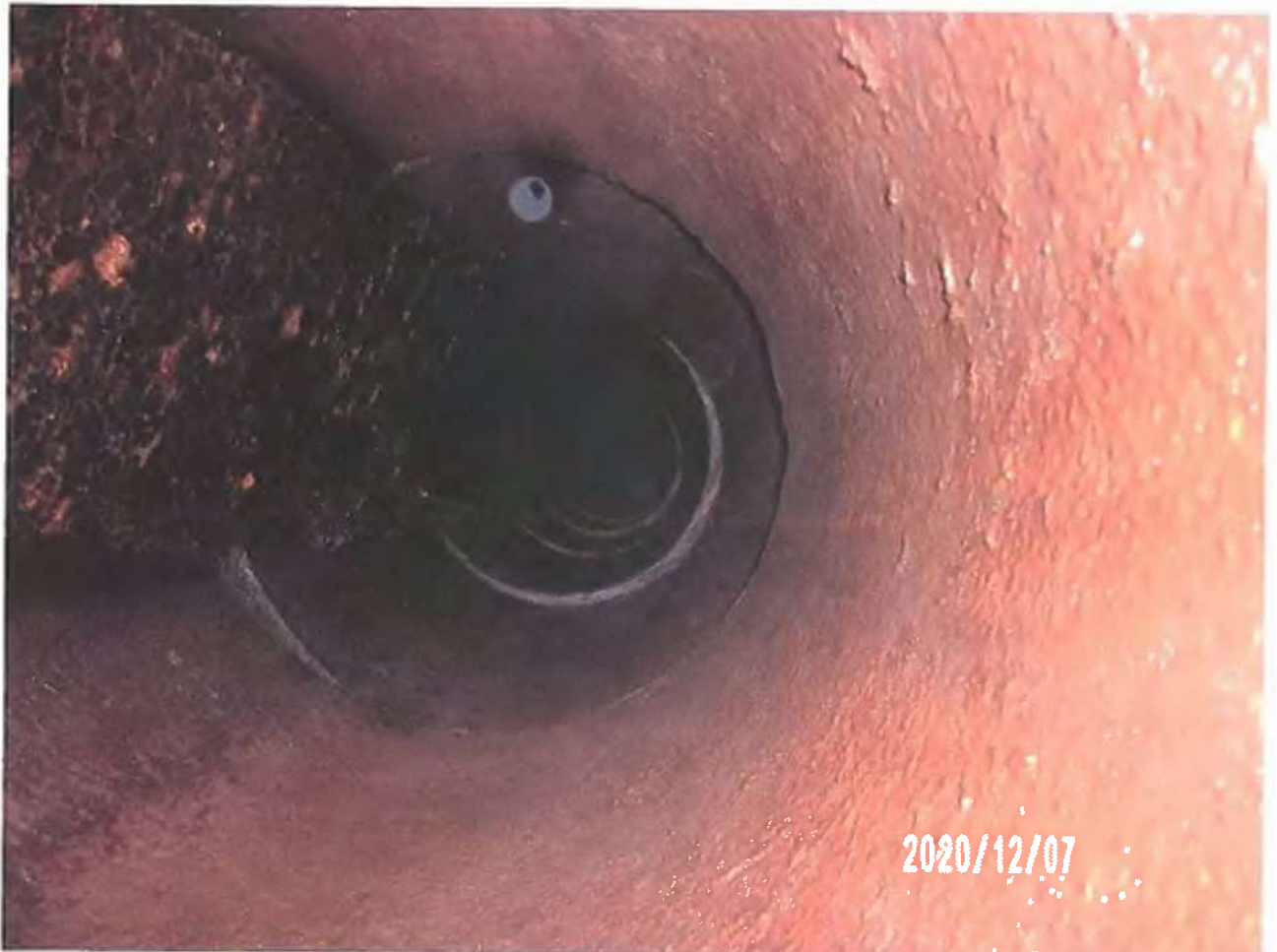
Engineer

Date Reviewed

LOOKING S. DOWN TILE @ 92



2020/12/07



2020/12/07

LOOKING N. UP TILE @ 92

10" TILE @ 91



CLEARING DIRT AROUND #92

PATCH @ 92



PATCH @ 92

PATCH @ 73



PATCH @ 69



PATCH @ 66

6500 2020-12-07 cs

1,3666160.310,4968629.670,1166.150,gps 8022  
2,3666160.310,4968629.670,1166.150,Autonomous Setup  
3,3665601.308,4985365.258,1153.705,gps 8039  
4,3662686.568,4971781.373,1146.882,2.5' dia sinkhole  
5,3662687.541,4971779.329,1143.094,top existing 32" vcp 2.77'to fl  
6,3662685.287,4971776.399,1147.833,gs above tile  
7,3662691.009,4971783.732,1148.264,gs above tile  
8,3663330.530,4968801.041,1150.586,4.5'n-s\*5.5'e-w  
9,3663332.192,4968805.303,1150.554,top 10" vcp 0.88'to fl  
10,3663284.607,4968738.850,1153.044,2.5' dia sinkhole  
11,3663286.605,4968735.137,1153.508,8" dia sinkhole  
12,3663327.463,4968798.394,1150.579,top 10" vcp 0.88'to fl  
13,3663335.000,4968803.834,1152.886,top 5" vcp full dirt  
14,3663330.888,4968795.343,1152.932,top 5" vcp full dirt  
15,3663696.190,4968805.479,1162.175,fence e-w  
16,3663695.365,4968720.301,1159.861,fence e-w  
17,3663333.674,4968808.383,1154.979,gs above existing tile  
18,3663325.979,4968795.250,1155.014,gs above existing tile  
19,3663287.204,4968739.933,1151.305,top existing 10" vcp 0.88' to fl  
20,3663284.675,4968736.599,1151.305,top existing 10" vcp 0.88' to fl  
21,3663281.406,4968733.016,1155.472,gs above existing tile  
22,3663298.207,4968754.179,1155.152,gs above existing tile  
23,3665601.320,4985365.261,1153.716,gps 8039  
24,3663440.572,4972146.722,1152.562,cpt 34 ir  
25,3663121.599,4972576.733,1144.300,gs above existing tile  
26,3662854.138,4972856.960,1140.237,top 36" cmp outlet 3.01' to fl  
27,3663115.447,4972584.564,1144.271,gs above existing tile  
28,3663118.687,4972580.097,1140.912,top 34" vcp 2.78' to fl  
29,3663300.267,4968762.985,1153.228,BLOWOUT  
30,3663300.214,4968758.654,1151.097, TOP 10"CLAY CLEAN  
31,3663305.081,4968765.715,1150.771, TOP 10"CLAY CLEAN  
32,3671144.512,4972728.155,1195.694,top tile -4.05  
33,3671061.498,4972739.434,1196.657,top tile -4.05  
34,3670738.067,4972767.542,1195.245,crop dmg 2020-6-8  
35,3670771.277,4972767.593,1195.233,crop dmg 2020-6-8  
36,3670770.462,4972641.626,1193.078,crop dmg 2020-6-8  
37,3670736.726,4972636.791,1192.239,crop dmg 2020-6-8  
38,3671512.707,4972786.250,1189.171,top 5" hdpe single wall  
39,3671509.830,4972785.764,1192.291,gs  
40,3671509.599,4972799.553,1192.261,crop dmg 2020-6-8  
41,3671539.260,4972801.985,1192.368,crop dmg 2020-6-8  
42,3671540.052,4972739.157,1192.600,crop dmg 2020-6-8  
43,3671507.872,4972743.015,1192.506,crop dmg 2020-6-8  
44,3671474.166,4972743.142,1195.877,tree os 33'+-s  
45,3671475.598,4972729.307,1195.925,tree os 33'+-s  
46,3671475.813,4972719.495,1196.002,tree os 33'+-s  
47,3671455.090,4972744.540,1192.909,top cmp 18"  
48,3671493.900,4972744.641,1193.147,top cmp 18"  
49,3666044.827,4967907.559,1156.912, TOP CLAYTILE @BLOWOUT

50,3665195.129,4966858.093,1156.976,LOW WET AREA  
51,3666091.534,4967940.481,1159.703,gs tile locate  
52,3666120.642,4967976.600,1159.936,gs tile locate  
53,3666156.036,4968022.468,1159.921,gs tile locate  
54,3666176.084,4968044.347,1160.241,gs tile locate  
55,3666247.982,4968121.293,1157.127,int 8" cmp fl  
56,3667364.250,4969908.144,1156.485,int 10" hick fl  
57,3667362.860,4969874.822,1158.138,top pcc 6" nw-se  
58,3667352.683,4969905.385,1157.781,top 15" vcp n-s  
59,3667205.816,4969877.603,1161.446,gs tile locate  
60,3667135.035,4969857.761,1161.397,gs tile locate  
61,3667087.745,4969834.074,1161.682,gs tile locate  
62,3667434.389,4969795.562,1158.315,top 6x6x4 tee  
63,3667435.049,4969796.055,1158.332,top hdpe 4" n  
64,3667485.773,4969737.456,1161.183,int 8" hick  
65,3666779.953,4970174.911,1163.503,int 6" hick  
66,3667299.828,4969895.147,1157.625,top 15" vcp 1.28' to fl  
67,3667076.270,4969827.174,1158.243,top 20" vcp  
68,3667104.562,4969844.067,1158.202,top 20" vcp  
69,3667150.913,4969862.605,1157.434,top 16" 18" vcp  
70,3666021.796,4967902.974,1157.055,top 10" clay 0.95 to fl  
71,3666048.785,4967909.858,1156.979,top 10" clay 0.90 to fl  
72,3666051.869,4967907.293,1157.120,top 10" clay 0.90 to fl  
73,3666267.996,4969388.082,1156.906,top 22" clay  
74,3666293.230,4969401.072,1163.438,gs tile locate  
75,3666326.644,4969410.758,1163.661,gs tile locate  
76,3666361.776,4969420.926,1163.792,gs tile locate  
77,3666742.611,4970176.033,1163.597,gs tile locate  
78,3666699.571,4970182.051,1163.554,gs tile locate  
79,3666802.245,4970171.072,1159.947,top 5 clay  
80,3666681.406,4970183.461,1160.163,top 5 clay  
81,3666832.370,4970167.948,1164.081,gs tile locate  
82,3666884.145,4970161.938,1164.659,gs tile locate  
83,3666905.915,4970159.744,1158.913,top 6 clay  
84,3666918.111,4970138.911,1164.448,gs tile locate  
85,3666939.141,4970096.684,1164.700,gs tile locate  
86,3666962.405,4970047.413,1164.611,gs tile locate  
87,3666989.862,4969991.061,1163.530,gs tile locate  
88,3667021.781,4969918.846,1162.411,gs tile locate  
89,3666932.784,4970109.017,1158.626,top 18 vcp  
90,3666489.494,4971867.481,1162.503,int 8" hick fl  
91,3666811.651,4972398.548,1165.263,962 10 n-s  
92,3666813.848,4972384.939,1162.370,962 15 n-s  
93,3666502.204,4972037.848,1162.566,952 -3.4 to fl  
94,3666041.730,4967906.459,1153.072,421 10  
95,3666047.861,4967907.178,1153.058,421 10 tee  
96,3666047.852,4967909.056,1152.927,421 10 45elbow



## Drainage District:

#4-53

## Investigation Summary:

- Landowner in the NW¼ NE¼ Section 4, Township 89 North, Range 21 West reported a blowout/sinkhole with standing water in the field over the assumed Lateral 4A tile route, just south of where it crosses Hardin Road (Highway C73).
- This reported issue was the same as Work Order #303.

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

None recorded, as work was completed under a separate Work Order.

## Additional Actions Recommended:

See the summary provided with Work Order #303 for actions taken and recommended.





# Drainage Work Order Request For Repair

## Hardin County

**Date:** 6/9/2020

**Work Order #:** W000000296

**Drainage District:** DDs\DD F-H 4-53 (51213)

**Sec-Twp-Rge:** 04-89-21      **Qtr Sec:** N1/2 SE1/4

**Location/GIS:** 89-21-04-200-002

**Requested By:** Jim Ziesman

**Contact Phone:** (641) 648-4933

**Contact Email:** Cell - 641-640-0419

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

**Description:** DD F-H 4-53 - Landowner Jim Ziesman reports blowout with standing water in field on district tile in parcel #892104200002, located near where tile enters field in grassy waterway.

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



Co Hwy 673 Hardin Rd

892:104100002

LATA

892:104200002

MAIN

892:104200003

W O 2 W

892:104100004

HH Ave

892:104200004

J.D.D.  
F-H 4-53

892:104200005

892:103

892:10311

P. HWY

6500 2020-12-07 cs

- 1,3666160.310,4968629.670,1166.150,gps 8022
- 2,3666160.310,4968629.670,1166.150,Autonomous Setup
- 3,3665601.308,4985365.258,1153.705,gps 8039
- 4,3662686.568,4971781.373,1146.882,2.5' dia sinkhole
- 5,3662687.541,4971779.329,1143.094,top existing 32" vcp 2.77'to fl
- 6,3662685.287,4971776.399,1147.833,gs above tile
- 7,3662691.009,4971783.732,1148.264,gs above tile
- 8,3663330.530,4968801.041,1150.586,4.5'n-s\*5.5'e-w
- 9,3663332.192,4968805.303,1150.554,top 10" vcp 0.88'to fl
- 10,3663284.607,4968738.850,1153.044,2.5' dia sinkhole
- 11,3663286.605,4968735.137,1153.508,8" dia sinkhole
- 12,3663327.463,4968798.394,1150.579,top 10" vcp 0.88'to fl
- 13,3663335.000,4968803.834,1152.886,top 5" vcp full dirt
- 14,3663330.888,4968795.343,1152.932,top 5" vcp full dirt
- 15,3663696.190,4968805.479,1162.175,fence e-w
- 16,3663695.365,4968720.301,1159.861,fence e-w
- 17,3663333.674,4968808.383,1154.979,gs above existing tile
- 18,3663325.979,4968795.250,1155.014,gs above existing tile
- 19,3663287.204,4968739.933,1151.305,top existing 10" vcp 0.88' to fl
- 20,3663284.675,4968736.599,1151.305,top existing 10" vcp 0.88' to fl
- 21,3663281.406,4968733.016,1155.472,gs above existing tile
- 22,3663298.207,4968754.179,1155.152,gs above existing tile
- 23,3665601.320,4985365.261,1153.716,gps 8039
- 24,3663440.572,4972146.722,1152.562,cpt 34 ir
- 25,3663121.599,4972576.733,1144.300,gs above existing tile
- 26,3662854.138,4972856.960,1140.237,top 36" cmp outlet 3.01' to fl
- 27,3663115.447,4972584.564,1144.271,gs above existing tile
- 28,3663118.687,4972580.097,1140.912,top 34" vcp 2.78' to fl
- 29,3663300.267,4968762.985,1153.228,BLOWOUT
- 30,3663300.214,4968758.654,1151.097, TOP 10"CLAY CLEAN
- 31,3663305.081,4968765.715,1150.771, TOP 10"CLAY CLEAN
- 32,3671144.512,4972728.155,1195.694,top tile -4.05
- 33,3671061.498,4972739.434,1196.657,top tile -4.05
- 34,3670738.067,4972767.542,1195.245,crop dmg 2020-6-8
- 35,3670771.277,4972767.593,1195.233,crop dmg 2020-6-8
- 36,3670770.462,4972641.626,1193.078,crop dmg 2020-6-8
- 37,3670736.726,4972636.791,1192.239,crop dmg 2020-6-8
- 38,3671512.707,4972786.250,1189.171,top 5" hdpe single wall
- 39,3671509.830,4972785.764,1192.291,gs
- 40,3671509.599,4972799.553,1192.261,crop dmg 2020-6-8
- 41,3671539.260,4972801.985,1192.368,crop dmg 2020-6-8
- 42,3671540.052,4972739.157,1192.600,crop dmg 2020-6-8
- 43,3671507.872,4972743.015,1192.506,crop dmg 2020-6-8
- 44,3671474.166,4972743.142,1195.877,tree os 33'+-s
- 45,3671475.598,4972729.307,1195.925,tree os 33'+-s
- 46,3671475.813,4972719.495,1196.002,tree os 33'+-s
- 47,3671455.090,4972744.540,1192.909,top cmp 18"
- 48,3671493.900,4972744.641,1193.147,top cmp 18"
- 49,3666044.827,4967907.559,1156.912, TOP CLAYTILE @BLOWOUT

6500 2020-12-07 cs

50,3665195.129,4966858.093,1156.976,LOW WET AREA  
51,3666091.534,4967940.481,1159.703,gs tile locate  
52,3666120.642,4967976.600,1159.936,gs tile locate  
53,3666156.036,4968022.468,1159.921,gs tile locate  
54,3666176.084,4968044.347,1160.241,gs tile locate  
55,3666247.982,4968121.293,1157.127,int 8" cmp fl  
56,3667364.250,4969908.144,1156.485,int 10" hick fl  
57,3667362.860,4969874.822,1158.138,top pcc 6" nw-se  
58,3667352.683,4969905.385,1157.781,top 15" vcp n-s  
59,3667205.816,4969877.603,1161.446,gs tile locate  
60,3667135.035,4969857.761,1161.397,gs tile locate  
61,3667087.745,4969834.074,1161.682,gs tile locate  
62,3667434.389,4969795.562,1158.315,top 6x6x4 tee  
63,3667435.049,4969796.055,1158.332,top hdpe 4" n  
64,3667485.773,4969737.456,1161.183,int 8" hick  
65,3666779.953,4970174.911,1163.503,int 6" hick  
66,3667299.828,4969895.147,1157.625,top 15" vcp 1.28' to fl  
67,3667076.270,4969827.174,1158.243,top 20" vcp  
68,3667104.562,4969844.067,1158.202,top 20" vcp  
69,3667150.913,4969862.605,1157.434,top 16" 18" vcp  
70,3666021.796,4967902.974,1157.055,top 10" clay 0.95 to fl  
71,3666048.785,4967909.858,1156.979,top 10" clay 0.90 to fl  
72,3666051.869,4967907.293,1157.120,top 10" clay 0.90 to fl  
73,3666267.996,4969388.082,1156.906,top 22" clay  
74,3666293.230,4969401.072,1163.438,gs tile locate  
75,3666326.644,4969410.758,1163.661,gs tile locate  
76,3666361.776,4969420.926,1163.792,gs tile locate  
77,3666742.611,4970176.033,1163.597,gs tile locate  
78,3666699.571,4970182.051,1163.554,gs tile locate  
79,3666802.245,4970171.072,1159.947,top 5 clay  
80,3666681.406,4970183.461,1160.163,top 5 clay  
81,3666832.370,4970167.948,1164.081,gs tile locate  
82,3666884.145,4970161.938,1164.659,gs tile locate  
83,3666905.915,4970159.744,1158.913,top 6 clay  
84,3666918.111,4970138.911,1164.448,gs tile locate  
85,3666939.141,4970096.684,1164.700,gs tile locate  
86,3666962.405,4970047.413,1164.611,gs tile locate  
87,3666989.862,4969991.061,1163.530,gs tile locate  
88,3667021.781,4969918.846,1162.411,gs tile locate  
89,3666932.784,4970109.017,1158.626,top 18 vcp  
90,3666489.494,4971867.481,1162.503,int 8" hick fl  
91,3666811.651,4972398.548,1165.263,962 10 n-s  
92,3666813.848,4972384.939,1162.370,962 15 n-s  
93,3666502.204,4972037.848,1162.566,952 -3.4 to fl  
94,3666041.730,4967906.459,1153.072,421 10  
95,3666047.861,4967907.178,1153.058,421 10 tee  
96,3666047.852,4967909.056,1152.927,421 10 45elbow

## Drainage District:

#4-53, Lat 4A

## Investigation/Repair Summary:

- Landowner in the NW¼ NE¼ Section 4, Township 89 North, Range 21 West reported a blowout on the east side of HH avenue, south of the building site over the assumed route of the Main tile.
- Visual observation of the area described did not find any signs of a blowout/sinkhole over the Main tile but did find excess water/moisture in the area where the blowout was reported to be. Further observation of the parcel found a blowout/sinkhole over the connection between a private tile and the assumed Lateral 4A tile south of Highway C73.
- Upon excavation, the two upstream tiles were found to be 10-inch VCP tiles, with the west tile being approximately 60% full of sediment and no flowing water, while the east tile was found to be generally clear of significant debris and freely flowing water. The downstream 10-inch VCP was found to be collapsed and was excavated until cracked, but round, VCP tile was found. Downstream from this excavation, the tile was found to have a small amount of sediment in the base, with freely flowing water above. Upon running a locating cable up the east tile, found that it went diagonally (northeast) towards an intake located on the other side of Hardin Road (Highway C73).
- Repaired the connection with a 10-inch dual wall HDPE, 10-inch HDPE tee, and 10-inch HDPE 45° elbow. Repaired the surrounding tiles with rock bedding and backfill, 10-inch dual wall HDPE, and ¾ concrete collars at each connection to the original VCP tiles.

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

See attached Tabulated Contractor Time and Materials Sheet.

## Additional Actions Recommended:

While the tiles repaired are near the Lateral 4A historical location, the 10-inch VCP tile that was found does not match the historical 14-inch diameter which is associated with the Lateral 4A in this location. Due to the topography, it appears that the west tile in this repair would be the likely Lateral 4A tile (if the Lateral 4A was one of the two). Given that this tile is over half filled with sediment, CGA recommends the following actions:

- Further investigation be conducted to determine if any of the tiles repaired is actually the Lateral 4A tile.
- If said west tile is confirmed to be Lateral 4A, determine the extent of the filling of the Lateral 4A with sediment and why the tile was installed as a 10-inch VCP instead of the record 14-inch VCP.
- If all the repaired tiles are determined to be private, the landowner should be made aware and the Trustees may determine how the repair should be billed.



## Tabulated Contractor Time and Materials

Date	Totals	11/30/2020	12/7/2020
Workman (hrs)	11 1/2	6	5 1/2
Backhoe (hrs)	5 3/4	3	2 3/4
10" Dual Wall HDPE (ft)	30		30
1" Clean Bedding Rock	Yes		
Concrete Collars	Yes		
10"x10"x10" Dual Wall HDPE Tee (ea)	1		1
10"x45° Dual Wall HDPE Elbow( ea)	1		1



# Drainage Work Order Request For Repair

## Hardin County

Date: 10/20/2020

Work Order #: W000000303

Drainage District: DDs\DD F-H 4-53 (51213)

Sec-Twp-Rge: 04-89-21 Qtr Sec: \_\_\_\_\_

Location/GIS: 89-21-04-200-002

Requested By: Jim Zeisman

Contact Phone: (641) 648-4933

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

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

Description: DD F-H 4-53 - Landowner Jim Zeisman reports blowout in field just east of HH Ave, not too far in field from the Rd and south of building site. Location is flagged, crops harvested. In same parcel as WO 296.

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: \_\_\_\_\_

6500.5





Co Hwy 673 Hardin Rd

HH Ave

LAIN

MAIN

WO 2

J.D.D.  
F-H 4-53

892104100002

892104100004

892104200002

892104200004

892104200003

892104200005

892103100001

892103100003

01

03

4



# Inspector's Project Diary

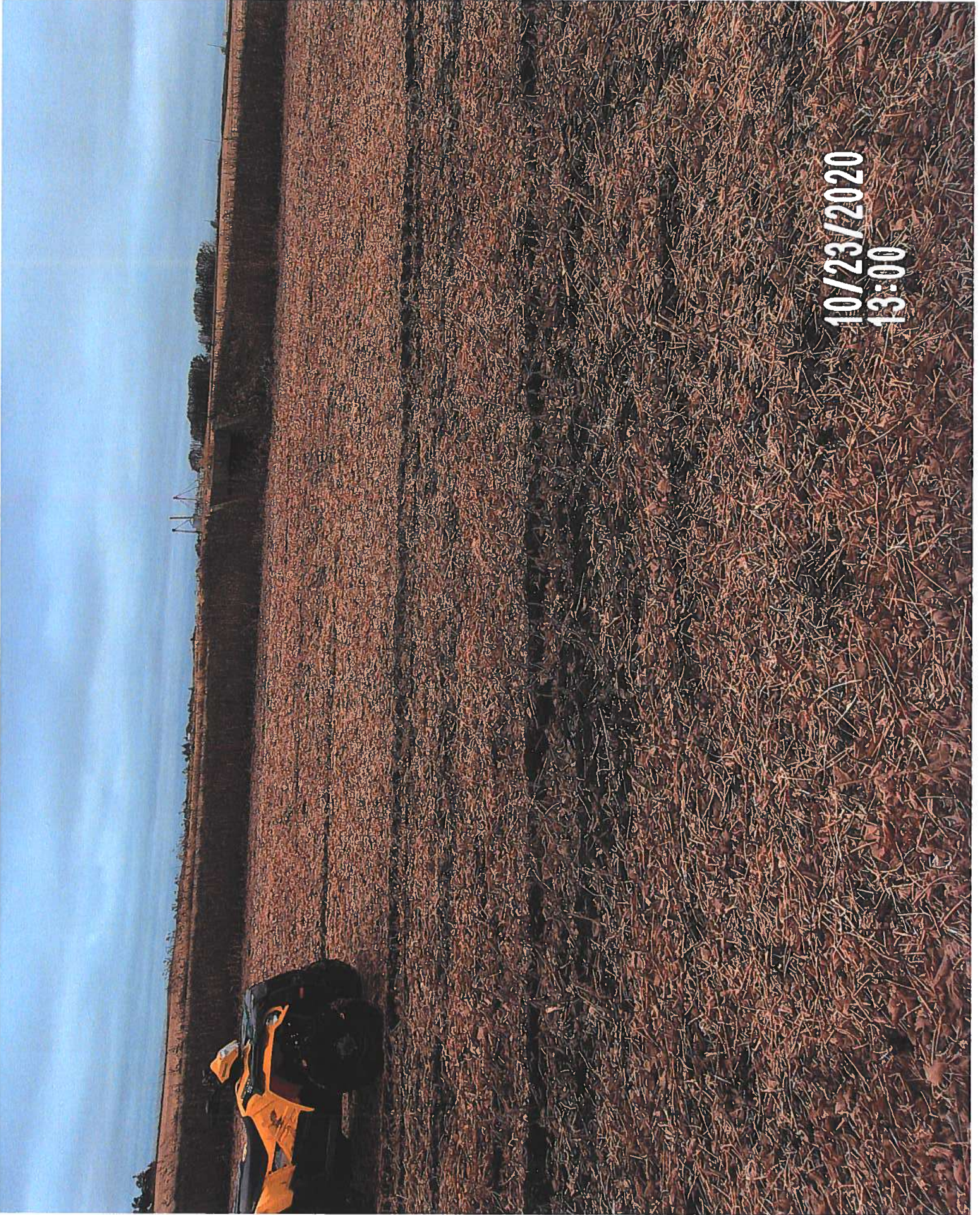
Project: <u>DD F-H 4-53</u>			
CGA PN: <u>6500.5</u>	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
Contractor:		Date: <u>10/23/20</u>	<u>LEE GAUNTJUK</u>
Superintendent:	Weather Conditions: <u>Windy, cold, damp</u>	Precip.: <u>1 1/2" RAIN Yesterday</u>	Temp. Hi: <u>38</u> °
INSPECTOR: Time Arrived: _____ Time Left: _____		Contractor: Time Arrived: _____ Time Left: _____	
<p>1. General Remarks and Work Accomplished:</p> <p><u>Called Jim LIESMAN TWICE, NO ANSWER. DROVE OUT WITH 4x4 TO FIND 2ND BLOW-OUT IN FIELD, SHOT BLOW-OUT FROM THIS SPRING #49, DROVE TO DISCRPTION IN FILE, (E. OF HH AVE, AND S. OF ACREAGE) FOUND WET AREA #50. JIMS SON ARRIVED, TALKED TO HIM, HE CALLED HIS DAD, JIM, HE ARRIVED AND TOLD MR THUR WAS JUST THE 1 BLOW-OUT FROM THIS SPRING, HE CALLED IN TO DRAINAGE CLERK, TOLD THEM CREPS WERE OUT, THEY DIDNT KNOW ANYTHING ABOUT IT. MADE OUT NEW REPORT.</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> ):			

ORIGINAL SPRING 2020 Blow-out #49



10/23/2020  
12:44

WET SPOT E. OF H.H. AVE, S. OF ACRAGE, NO BLOW-OUT



10/23/2020  
13:00

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE: 11-30-20

PROJECT NUMBER: 6500.4 + 5  
COUNTY, ROUTE, ROAD: E-73 DO F.H. 4-53  
LOCATION: LAT 4A S, OFC-73+E.H.H

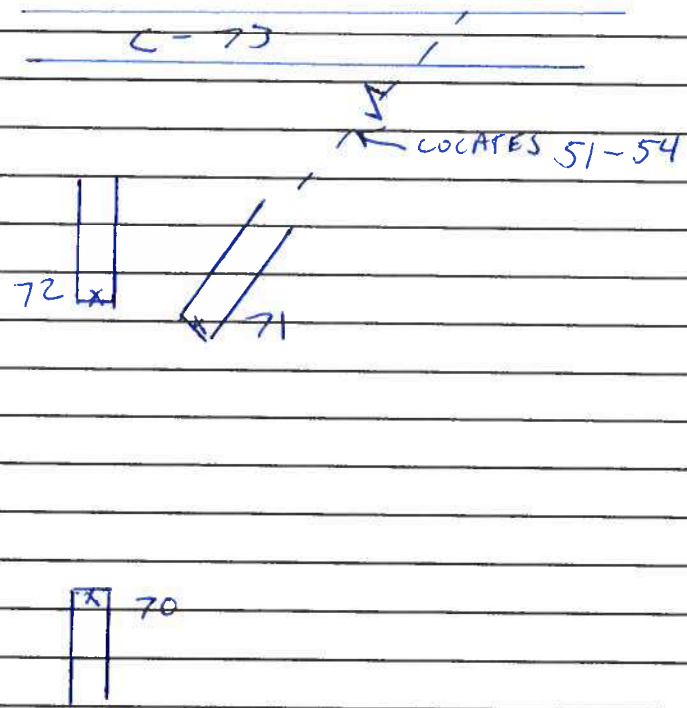
DAYS OF WEEK: 

S	<u>M</u>	T	W	T	F	S
---	----------	---	---	---	---	---

  
SHEET NO. 1 OF     

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

8:20 ARRIVED ON SITE SET UP BASE @ 2 (BUZZ)  
8:40 TALKED TO CREW <sup>(RUSS & FRANK)</sup> SAID THAT WE ARE GOING TO S, END OF PROJECT 1ST  
9:00 STARTED EXCAVATING @ SINK HOLE @ 49  
9:30 EXPOSED THE 'Y' @ THE BLOWOUT TILE IS SITTING 60% FULL RAN THE LOCATOR DOWN THE TIE & HIT A PLUG 6' ± DOWN THE TIE  
11:50 CREW LEFT SITE TO GET MATERIALS  
1:00 CREW CALLED & SAID THAT THEY NEED TO GET SUPPLIES AND WILL NOT BE ABLE TO FINISH THE REPAIR UNTIL TOMORROW.



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.  
Observer's Signature: [Signature] Date Prepared: 12-1-20  
Reviewed by:       Engineer  
Date Reviewed:

START OF DAY



2020/11/30



2020/11/30

LOOKING S. DOWN TO

@ 70 LOOKING @ 71 + 72



2020/11/30



2020/11/30

LOOKING N. DOWN @ 71



LOOKING N. @ 72



2020/11/30



2020/11/30

LOOKING N. @ 72

@ 72 Looking S. to 70



2020/11/30



2020/11/30

Looking NW @ 71 + 72

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

12-7-20

PROJECT NUMBER:

6500.5

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

DD F.H. 4-53

SHEET NO.

1 OF 1

LOCATION: LAT 4A S. OPC-73 E. OF H.H.

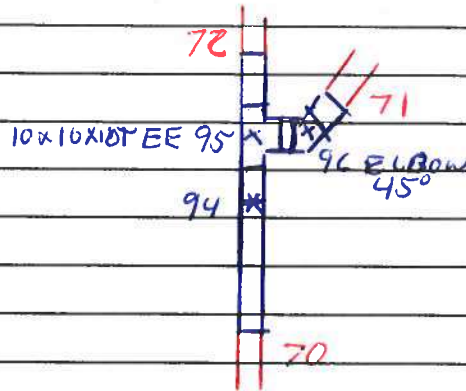
DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1200 STARTED REPAIRING TILE PLACED A 10X10X10 TEE @ 95 + A 45° ELBOW @ 96

2:15 POWRED 3 COLLARS @ 70, 71, + 72

2:45 PICKED UP THE BASE ~~OF~~ AND LEFT THE SITE CREW WAS GOING TO ANOTHER JOB WHILE THE PCC CURES AND WILL COME BACK TO FILL IT IN.

CREW PLACED 1.5' OF ROCK ABOVE TILE  
CREW POWRED 1 CU YRD OF PCC



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

Observer's Signature:

*Chris A. [Signature]*

Date Prepared:

12-7-20

Reviewed by:

Engineer

Date Reviewed

START OF DAY



2020/12/07



2020/12/07

PIPE DRY FIT

DRY FIT TILE



2020/12/07



2020/12/07

S: COLLAR

N. 2 COLLARS



**ECE**  
**CONCRETE INC.**

SOLD TO: **BOONS CONTRACTORS** COUNTY LINE & 1ST AVE  
1000 FALLS

TIME	FORMULA	LOAD SIZE	YARDS ORDERED	DRIVER/TRUCK	P.O. NUMBER	PLANT/TRANSACTION#
DATE		LOAD #	YARDS DEL.	BATCH #	WATER TRIM	TICKET NUMBER

**WARNING: IRRITATING TO THE SKIN AND EYES.**  
CONTAINS PHOSPHORUS. CONTACT WITH CAUSTIC BLENDS. AVOID CONTACT WITH SKIN AND EYES. PROTECTIVE GLOVES MUST BE WORN AT ALL TIMES. KEEP CHILDREN AWAY. SEE BACK FOR ADDITIONAL PRECAUTIONS.

**PROPERTY DAMAGE RELEASE**  
TO BE SIGNED BY DELIVERY TO BE MADE INSIDE CURB LINE. Excessive Water is Detrimental to Concrete Performance. H<sub>2</sub>O Added By Request/Authorized By: GAL X

**WEIGHMASTER**

LOAD RECEIVED BY: X

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.00	EA	WINTERCH		
1.00	CY	TRUCK INCHG (NONTAXABLE)		
1.00	CY	WINTERCH		

RETURNED TO PLANT	LEFT JOB	FINISH UNLOADING	DELAY EXPLANATION	CYLINDER TEST TAKEN	TIME ALLOWED
			1. JOB NOT READY 2. TLOW PUMP OR PUMP 3. TRUCK AHEAD ON JOB 4. CONTRACTOR BROKE DOWN 5. ADDED WATER	6. TRUCK BROKE DOWN 7. ACCIDENT 8. CITATION 9. OTHER	
LEFT PLANT	ARRIVED JOB	START UNLOADING			TIME DUE
					2020/12/07
TOTAL ROUND TRIP	TOTAL AT JOB	UNLOADING TIME			DELAY TIME
					ADDITIONAL CHARGE 1
					ADDITIONAL CHARGE 2
					GRAND TOTAL **

PCC TICKET

S. COLLAR



2020/12/07



2020/12/07

N. 2 COLLARS

6500 2020-12-07 cs

1,3666160.310,4968629.670,1166.150,gps 8022  
2,3666160.310,4968629.670,1166.150,Autonomous Setup  
3,3665601.308,4985365.258,1153.705,gps 8039  
4,3662686.568,4971781.373,1146.882,2.5' dia sinkhole  
5,3662687.541,4971779.329,1143.094,top existing 32" vcp 2.77'to fl  
6,3662685.287,4971776.399,1147.833,gs above tile  
7,3662691.009,4971783.732,1148.264,gs above tile  
8,3663330.530,4968801.041,1150.586,4.5'n-s\*5.5'e-w  
9,3663332.192,4968805.303,1150.554,top 10" vcp 0.88'to fl  
10,3663284.607,4968738.850,1153.044,2.5' dia sinkhole  
11,3663286.605,4968735.137,1153.508,8" dia sinkhole  
12,3663327.463,4968798.394,1150.579,top 10" vcp 0.88'to fl  
13,3663335.000,4968803.834,1152.886,top 5" vcp full dirt  
14,3663330.888,4968795.343,1152.932,top 5" vcp full dirt  
15,3663696.190,4968805.479,1162.175,fence e-w  
16,3663695.365,4968720.301,1159.861,fence e-w  
17,3663333.674,4968808.383,1154.979,gs above existing tile  
18,3663325.979,4968795.250,1155.014,gs above existing tile  
19,3663287.204,4968739.933,1151.305,top existing 10" vcp 0.88' to fl  
20,3663284.675,4968736.599,1151.305,top existing 10" vcp 0.88' to fl  
21,3663281.406,4968733.016,1155.472,gs above existing tile  
22,3663298.207,4968754.179,1155.152,gs above existing tile  
23,3665601.320,4985365.261,1153.716,gps 8039  
24,3663440.572,4972146.722,1152.562,cpt 34 ir  
25,3663121.599,4972576.733,1144.300,gs above existing tile  
26,3662854.138,4972856.960,1140.237,top 36" cmp outlet 3.01' to fl  
27,3663115.447,4972584.564,1144.271,gs above existing tile  
28,3663118.687,4972580.097,1140.912,top 34" vcp 2.78' to fl  
29,3663300.267,4968762.985,1153.228,BLOWOUT  
30,3663300.214,4968758.654,1151.097,TOP 10"CLAY CLEAN  
31,3663305.081,4968765.715,1150.771,TOP 10"CLAY CLEAN  
32,3671144.512,4972728.155,1195.694,top tile -4.05  
33,3671061.498,4972739.434,1196.657,top tile -4.05  
34,3670738.067,4972767.542,1195.245,crop dmg 2020-6-8  
35,3670771.277,4972767.593,1195.233,crop dmg 2020-6-8  
36,3670770.462,4972641.626,1193.078,crop dmg 2020-6-8  
37,3670736.726,4972636.791,1192.239,crop dmg 2020-6-8  
38,3671512.707,4972786.250,1189.171,top 5" hdpe single wall  
39,3671509.830,4972785.764,1192.291,gs  
40,3671509.599,4972799.553,1192.261,crop dmg 2020-6-8  
41,3671539.260,4972801.985,1192.368,crop dmg 2020-6-8  
42,3671540.052,4972739.157,1192.600,crop dmg 2020-6-8  
43,3671507.872,4972743.015,1192.506,crop dmg 2020-6-8  
44,3671474.166,4972743.142,1195.877,tree os 33'+-s  
45,3671475.598,4972729.307,1195.925,tree os 33'+-s  
46,3671475.813,4972719.495,1196.002,tree os 33'+-s  
47,3671455.090,4972744.540,1192.909,top cmp 18"  
48,3671493.900,4972744.641,1193.147,top cmp 18"  
49,3666044.827,4967907.559,1156.912, TOP CLAYTILE @BLOWOUT



6500 2020-12-07 cs

50,3665195.129,4966858.093,1156.976,LOW WET AREA  
51,3666091.534,4967940.481,1159.703,gs tile locate  
52,3666120.642,4967976.600,1159.936,gs tile locate  
53,3666156.036,4968022.468,1159.921,gs tile locate  
54,3666176.084,4968044.347,1160.241,gs tile locate  
55,3666247.982,4968121.293,1157.127,int 8" cmp fl  
56,3667364.250,4969908.144,1156.485,int 10" hick fl  
57,3667362.860,4969874.822,1158.138,top pcc 6" nw-se  
58,3667352.683,4969905.385,1157.781,top 15" vcp n-s  
59,3667205.816,4969877.603,1161.446,gs tile locate  
60,3667135.035,4969857.761,1161.397,gs tile locate  
61,3667087.745,4969834.074,1161.682,gs tile locate  
62,3667434.389,4969795.562,1158.315,top 6x6x4 tee  
63,3667435.049,4969796.055,1158.332,top hdpe 4" n  
64,3667485.773,4969737.456,1161.183,int 8" hick  
65,3666779.953,4970174.911,1163.503,int 6" hick  
66,3667299.828,4969895.147,1157.625,top 15" vcp 1.28' to fl  
67,3667076.270,4969827.174,1158.243,top 20" vcp  
68,3667104.562,4969844.067,1158.202,top 20" vcp  
69,3667150.913,4969862.605,1157.434,top 16" 18" vcp  
70,3666021.796,4967902.974,1157.055,top 10" clay 0.95 to fl  
71,3666048.785,4967909.858,1156.979,top 10" clay 0.90 to fl  
72,3666051.869,4967907.293,1157.120,top 10" clay 0.90 to fl  
73,3666267.996,4969388.082,1156.906,top 22" clay  
74,3666293.230,4969401.072,1163.438,gs tile locate  
75,3666326.644,4969410.758,1163.661,gs tile locate  
76,3666361.776,4969420.926,1163.792,gs tile locate  
77,3666742.611,4970176.033,1163.597,gs tile locate  
78,3666699.571,4970182.051,1163.554,gs tile locate  
79,3666802.245,4970171.072,1159.947,top 5 clay  
80,3666681.406,4970183.461,1160.163,top 5 clay  
81,3666832.370,4970167.948,1164.081,gs tile locate  
82,3666884.145,4970161.938,1164.659,gs tile locate  
83,3666905.915,4970159.744,1158.913,top 6 clay  
84,3666918.111,4970138.911,1164.448,gs tile locate  
85,3666939.141,4970096.684,1164.700,gs tile locate  
86,3666962.405,4970047.413,1164.611,gs tile locate  
87,3666989.862,4969991.061,1163.530,gs tile locate  
88,3667021.781,4969918.846,1162.411,gs tile locate  
89,3666932.784,4970109.017,1158.626,top 18 vcp  
90,3666489.494,4971867.481,1162.503,int 8" hick fl  
91,3666811.651,4972398.548,1165.263,962 10 n-s  
92,3666813.848,4972384.939,1162.370,962 15 n-s  
93,3666502.204,4972037.848,1162.566,952 -3.4 to fl  
94,3666041.730,4967906.459,1153.072,421 10  
95,3666047.861,4967907.178,1153.058,421 10 tee  
96,3666047.852,4967909.056,1152.927,421 10 45elbow