

## Drainage District:

9

## Repair Summary:

- Tenant in SW¼ Section 6, Township 89 North, Range 22 West reported two blowouts/sinkholes on Main tile.
- Visually searched area and found one blowout/sinkhole, approximately 225 feet southeast of railroad right of way (see attached spot repair map).
- Tile blowout/sinkhole is missing one section of VCP tile and is 1/3 full of debris.
- Located Main tile upstream for 590'± and downstream for 1430'± from blowout/sinkhole.
- Upstream found broken VCP tile in sinkhole/blowout just downstream of railroad. The tile appears to have possibly been broken when fiber optic line was installed (see attached spot repair map).
- During location of main tile, excavated 7 observation holes. Excavation of one of the observation holes damaged a 4" private tile. Repaired private tile with 2' of 6" Dual Wall HDPE tile.
- Repaired first blowout/sinkhole with 18.3' of 15" Dual Wall HDPE tile with concrete collars.
- Repaired observation hole approximately 150' south railroad right of way with 6.25' of 15" Dual Wall HDPE tile with fabric wrapped joints.
- Filled holes as much as possible with on-site soil.
- Note: Contractor was changed midway through repairs from Randy Brown per 1-16-2019 Drainage Meeting minutes. McDowell and Sons Contractors completed the work after this date (see breakdown on attached).
- In April, backfilling of excavation was completed by McDowell with un-frozen soil.

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

See attached Tabulated Contractor Time and Materials Sheet.

## Additional Actions Recommended:

The unrepaired broken tile in the railroad right of way is severely limiting the drainage upstream and will eventually cause additional blowouts/sinkholes and ponding. Moving forward, we would recommend abandoning the current railroad crossing, install a new crossing meeting Union Pacific Railroad standards/permits to restore the drainage to its original design or install a bypass tile on the north side of the railroad right of way. Based on either of these options, it is my opinion that the construction cost would be well over \$50,000. This cost is high enough that a hearing and engineering report would be required.

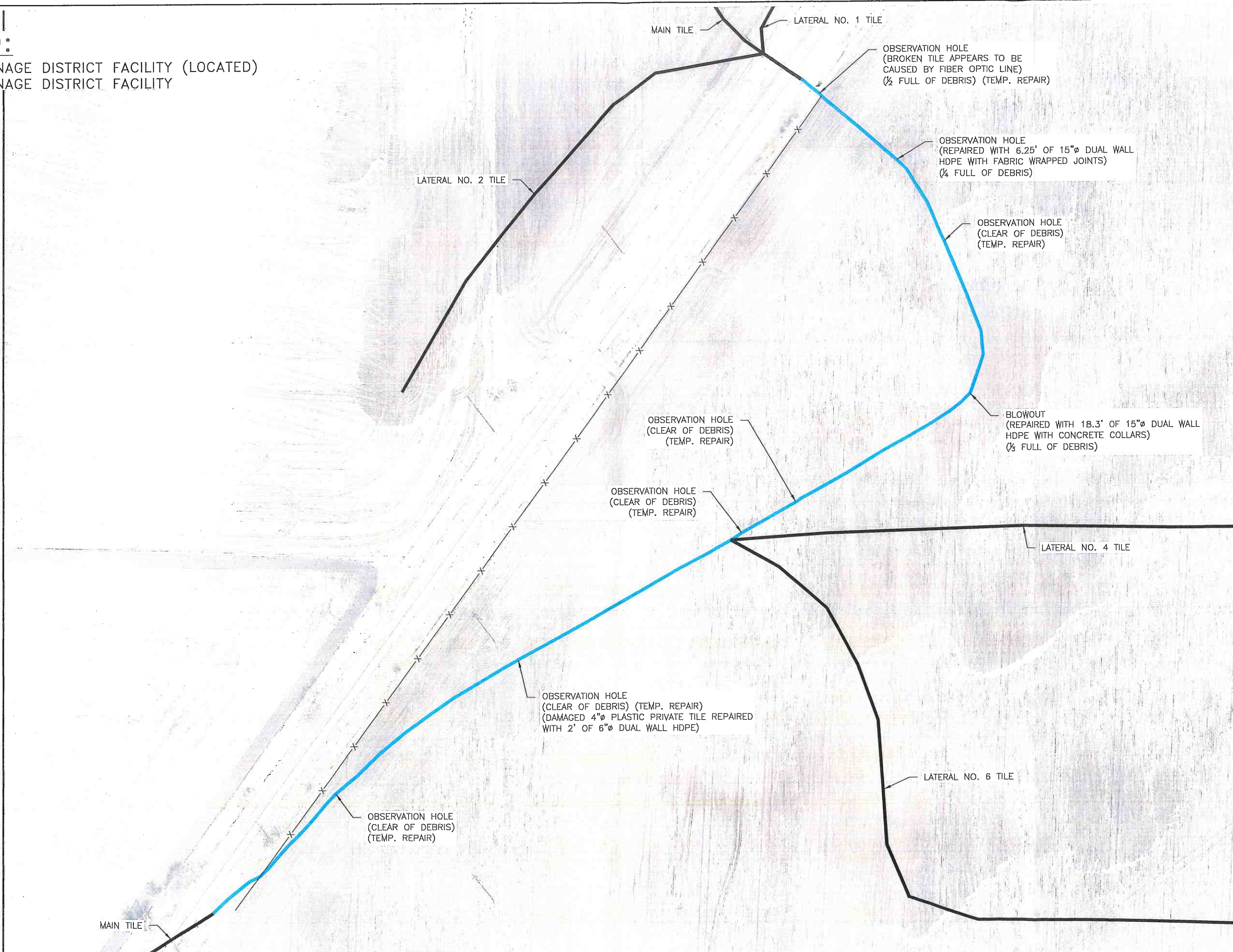


## Tabulated Contractor Time and Materials

Date	Totals	11/16/2018	11/19/2018	11/21/2018	11/23/2018	11/26/2018	11/29/2018	3/8/2019
Workman (hrs)	39	7	5.5	2.25	1	2.5	5.5	15
Backhoe (hrs)	17		5.5	2.25		1.25	2.75	5
15" Dual Wall HDPE (ft.)	24.55						6.25	18.3
Concrete Collar (ea.)	2							2
RD Customs								
McDowell								

**LEGEND:**

- DRAINAGE DISTRICT FACILITY (LOCATED)
- DRAINAGE DISTRICT FACILITY



P:\0735\CADD\Quantiles\6735-repair\_summary3.dwg - CBA Plot - 04-10-19 - 4:45pm - 2/5/19



NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE

**CGA**  
 Clapsaddle-Garber Associates, Inc.  
 1523 S. Bell Ave. Suite 101  
 Ames, Iowa 50010  
 Ph 515-232-1784  
 www.cgiconsultants.com

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

**DRAINAGE DISTRICT #9**  
 HARDIN, IOWA

**SPOT REPAIRS**

PROJECT NO. 6735
SHEET NO. 1



# Drainage Work Order Request For Repair

## Hardin County

Date: 10/26/2018

Work Order #: W000000229

Drainage District: Drainage Districts \DD 9 (51022)

Sec-Twp-Rge: 06-88-21 Qtr Sec: SW

Location/GIS: 88-21-06-300-002

Requested By: Scott Renaud (Tenant)

Contact Phone: (641) 751-4734

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

Landowner (if different): Tom Roberts

Description: 

DD 9 - Huge lake (approx 15 acres) of corn under water. Blowout approximately 300-500 yards southeast of RR and another one NW of RR along fenceline. All crops are out except those around blowouts.

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

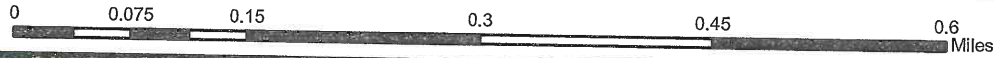
Approved: \_\_\_\_\_ Date: \_\_\_\_\_



# Hardin County Auditor's Office



Date: 10/26/201



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

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11/19/18  
11/16/18

PROJECT NUMBER:

6735

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

DD 9 HARDON CO

SHEET NO.

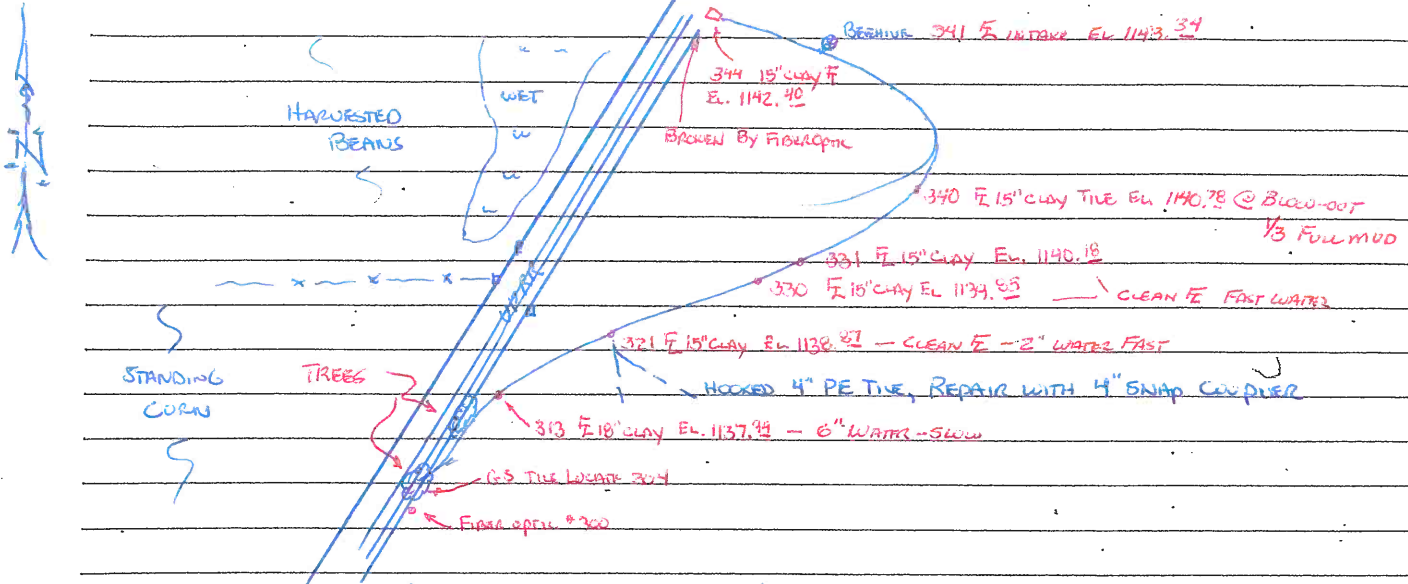
1 OF 1

LOCATION:

D25, "RACINE", UPRR

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

9:00, 2 man crew on site, dug up tile @ Blow-out and tried to find tile without it crosses UPRR down stream. To SW.



11/19/18; 10:00, SET X ON #87 (DD41 JOB), RANNEY BROWN ON SITE WITH READER TIRE BACKHUR. (NO HELPER). 2:00 done LOCATING downstream to UPRR. COULD NOT GET UNDER RR WITH CABLE. WHEN CORN IS OUT ON W. SIDE RR, WE SHOULD LOCATE AND INSPECT TILE ON WEST SIDE OF RR. dug 4 POT HOLES AND LOCATED WITH CABLE FROM BLOW-OUT TO UPRR. SHOTS 300-344 LEFT JOB @ 3:30

WATER ON W. SIDE RR IS SURFACE DRAINING THRU RR emp TO downstream TILE @ 344. INTAKE @ 341 HAS BROKEN BREWHE BUT F IS dry (OFFSET INTAKE)

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

Observer's Signature:

*[Handwritten Signature]*

Date Prepared:

11/16/18, 11/19/18

Reviewed by:

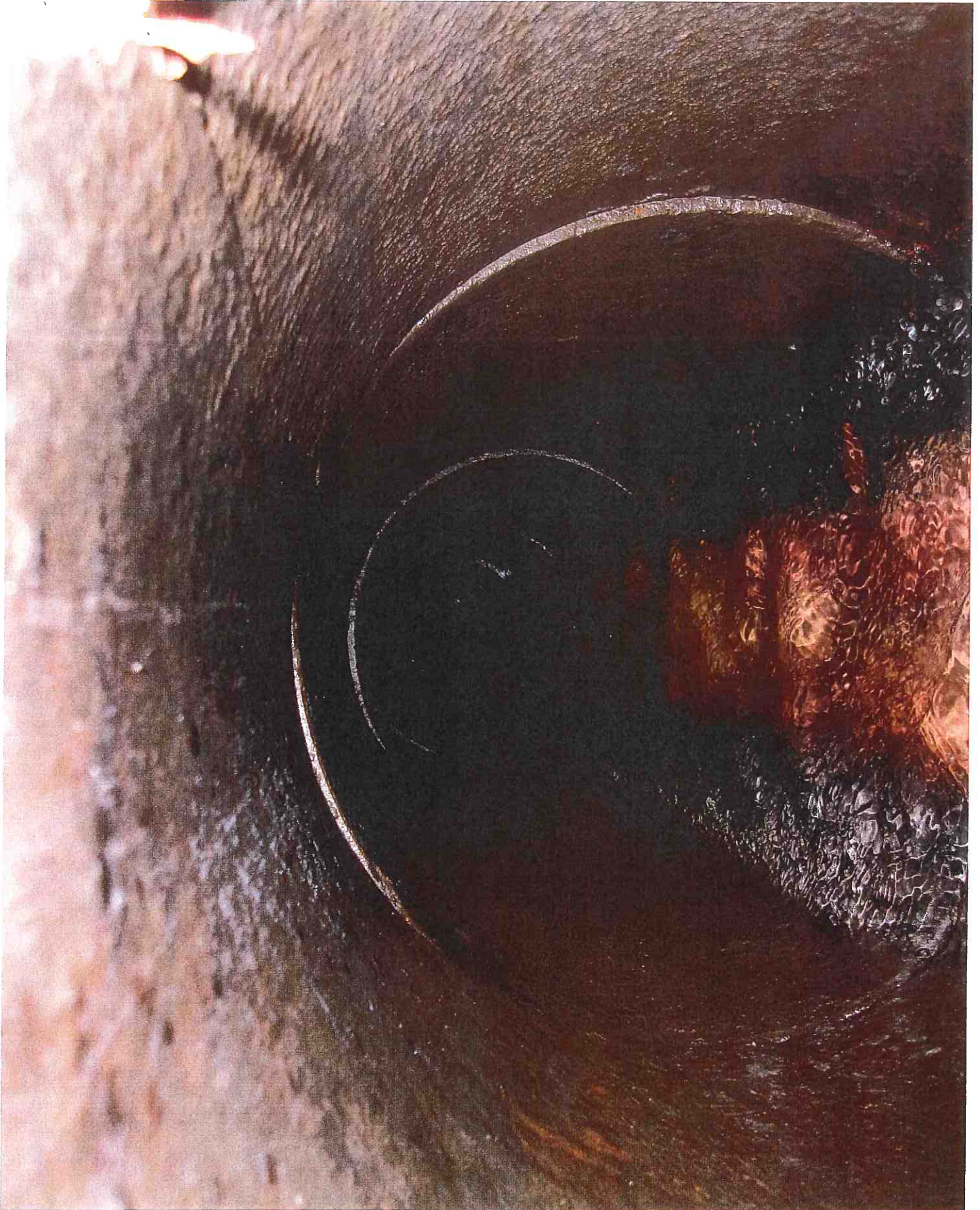
Engineer

Date Reviewed

Tide @ 331

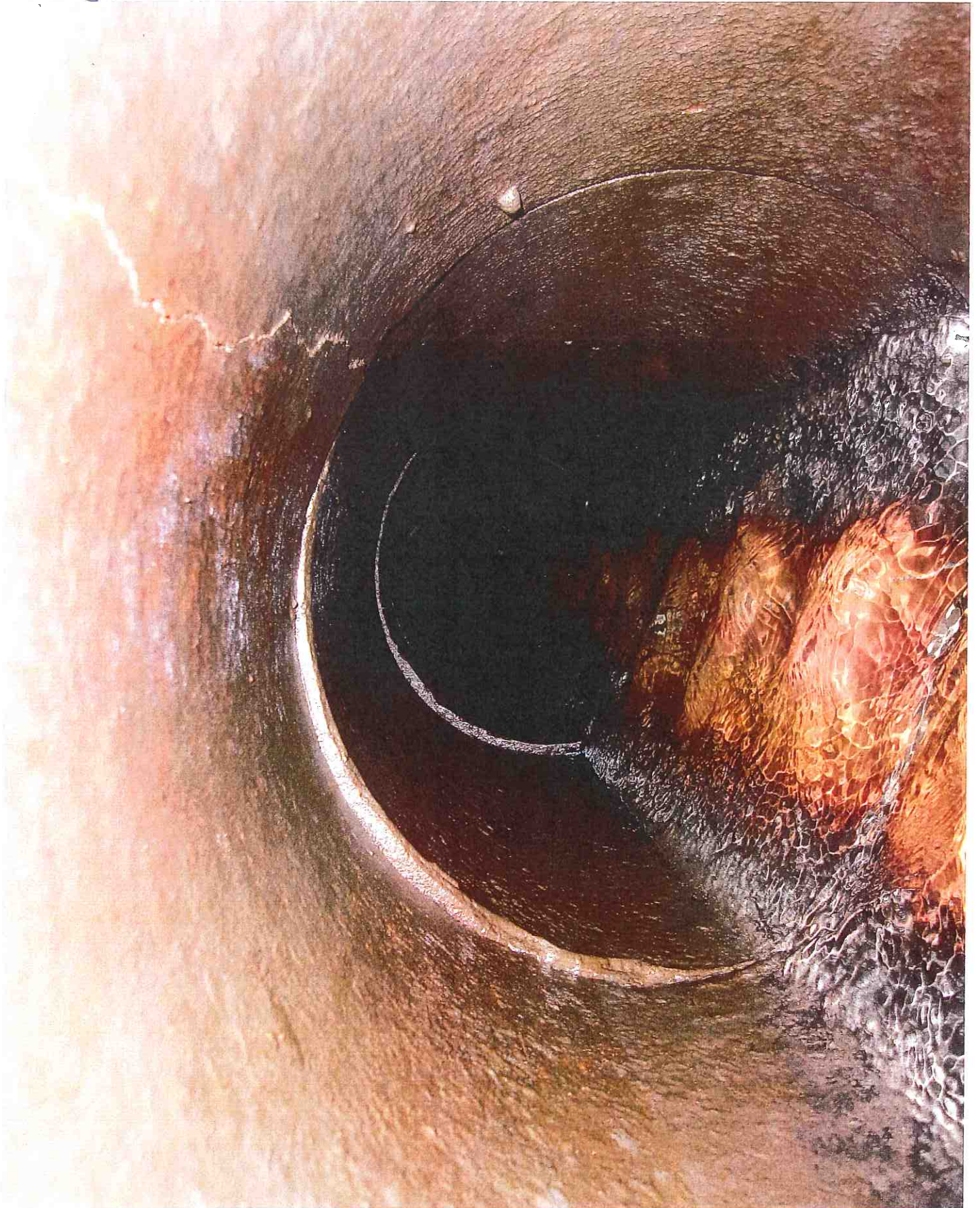


TILE © 331





TIVE @ 330



T1R @ 330



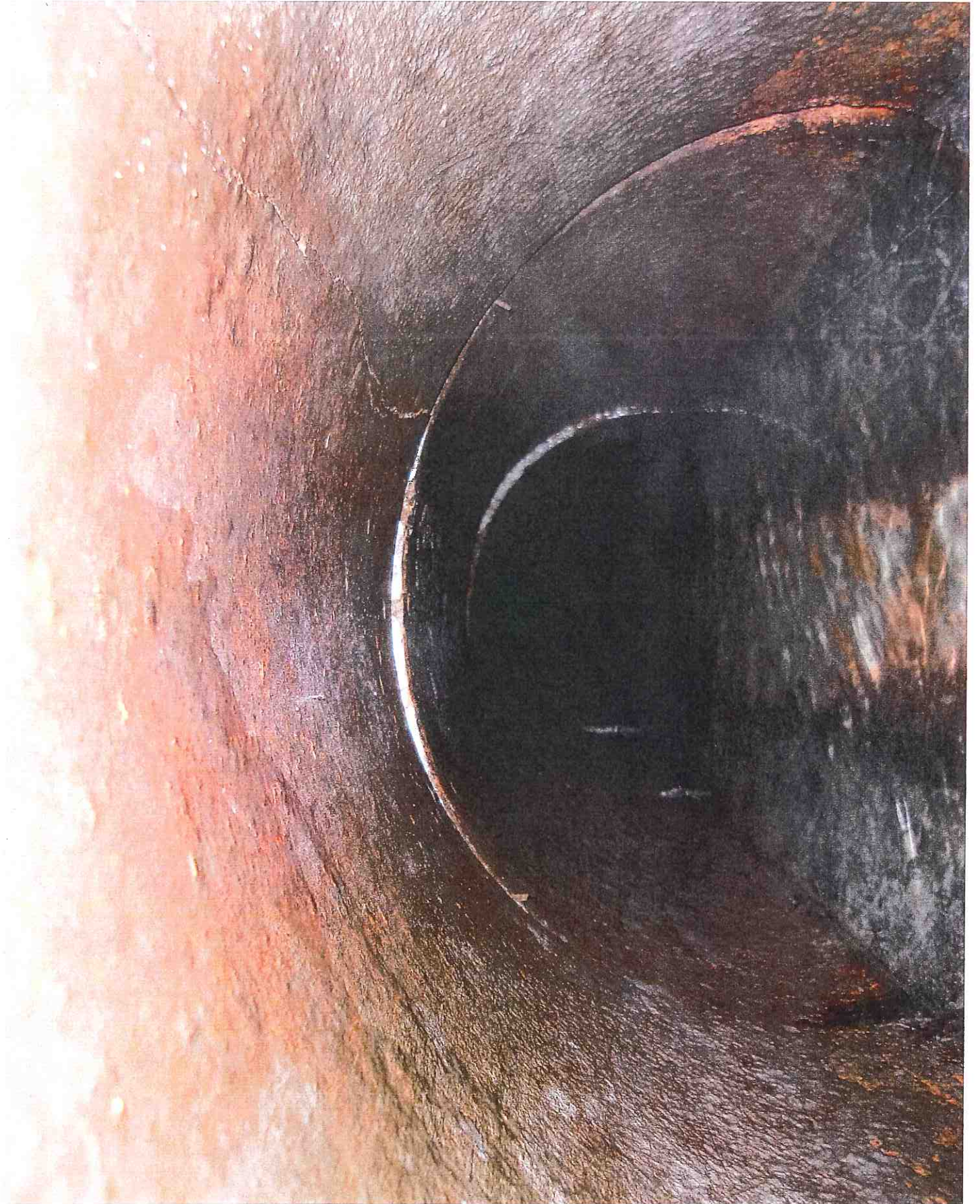
downstream From 321



UPSTREAM FROM #321, HOOKED 4" PE WITH BUCKET, REPAIR WITH SNAP COUPLER



Tue @ 313



Tile @ #313



TREES DOWNSTREAM FROM #313



009 HARDIN



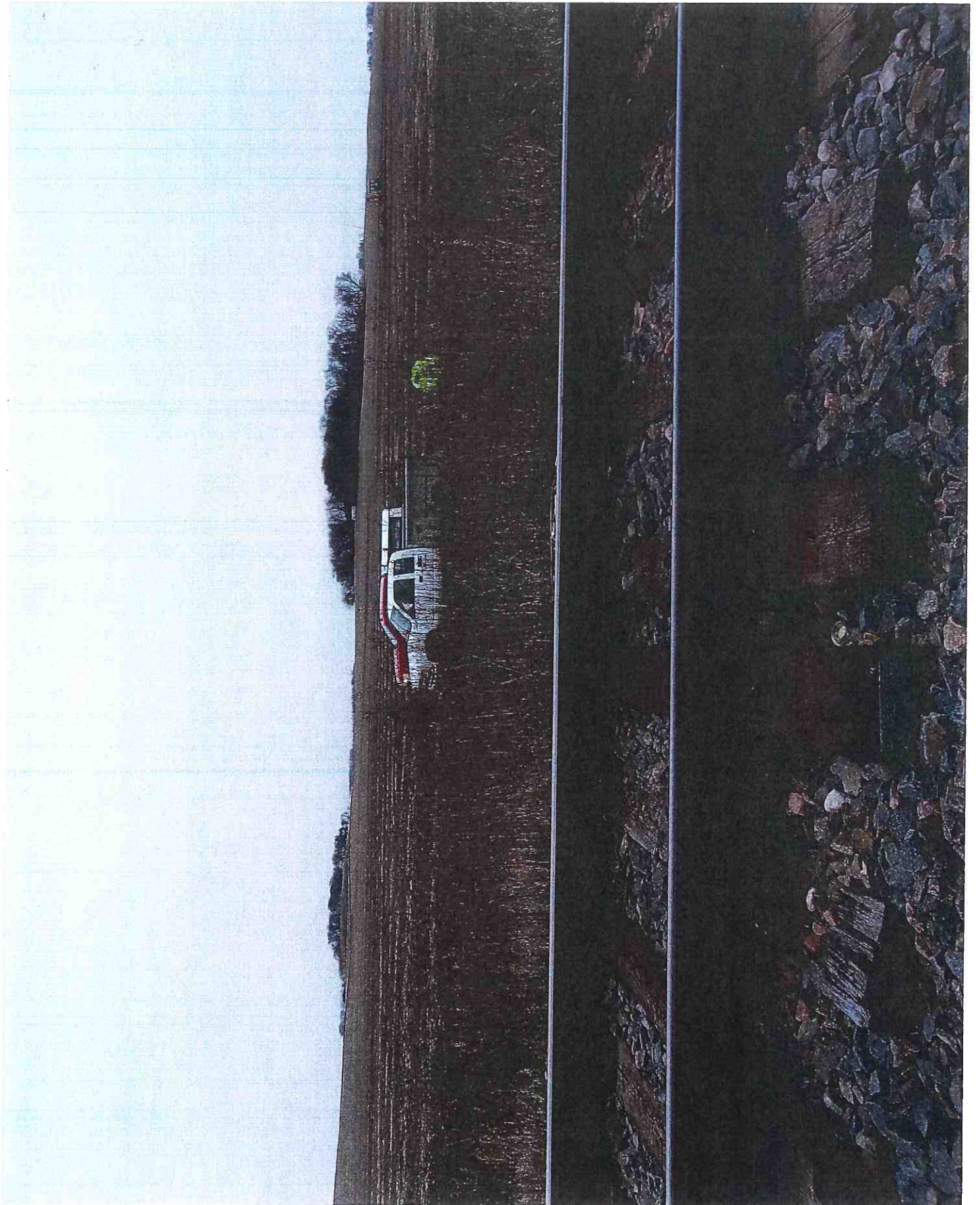






Blow-out Hole @ #340





CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11-21-18

PROJECT NUMBER:

6735

COUNTY, ROUTE, ROAD:

DD9 CAT3

LOCATION:

SE 1/4 SEC 6 - 88 - 21

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

9:30 SET UP BASE # 87 ✓ 1000

9:45 ARRIVED ON SITE 1 MAN IN BACKHOE

10:00 OPENED HOLE #350 3"-4" CLEAN WATER FLOWING THROUGH PIPE.

INTAKE # 341 CONC INTAKE IN GOOD CONDITION W/ 6" CLAY RUNNING NW DRY BEEHIVE ON TOP IS BROKEN

10:45 OPENED HOLE #354 CONTRACTOR BROKE 1 PIECE OF TILE W/ BACK HOE BOTH TILE UP & DOWN STREAM HAVE MULTIPLE LATERAL CRACKS TILE IS FLOWING 3"-4" CLEAN WATER LOCATED TO THE OPEN TILE @ #344

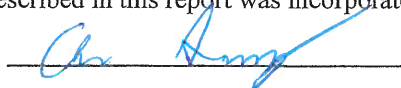
11:00 HOLE 344 DOWN STREAM IS HALF FULL OF DIRT UPSTREAM IS 3/4 FULL ROCK W/ A TRICKLE OF WATER WATER AT THIS SPOT IS SLOW MOVING @ 7" DEEP

11:45 PICKED UP BASE + LEFT SITE

LEE SAID TO TEMPORARILY PATCH POTHOLES AND FILL THE HOLES IN. RANDY SAID HE WOULD DO IT FRIDAY

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

Observer's Signature:



Date Prepared:

11-21-18

Reviewed by:

Engineer

Date Reviewed

6735 HOLE 350 LOOKING N



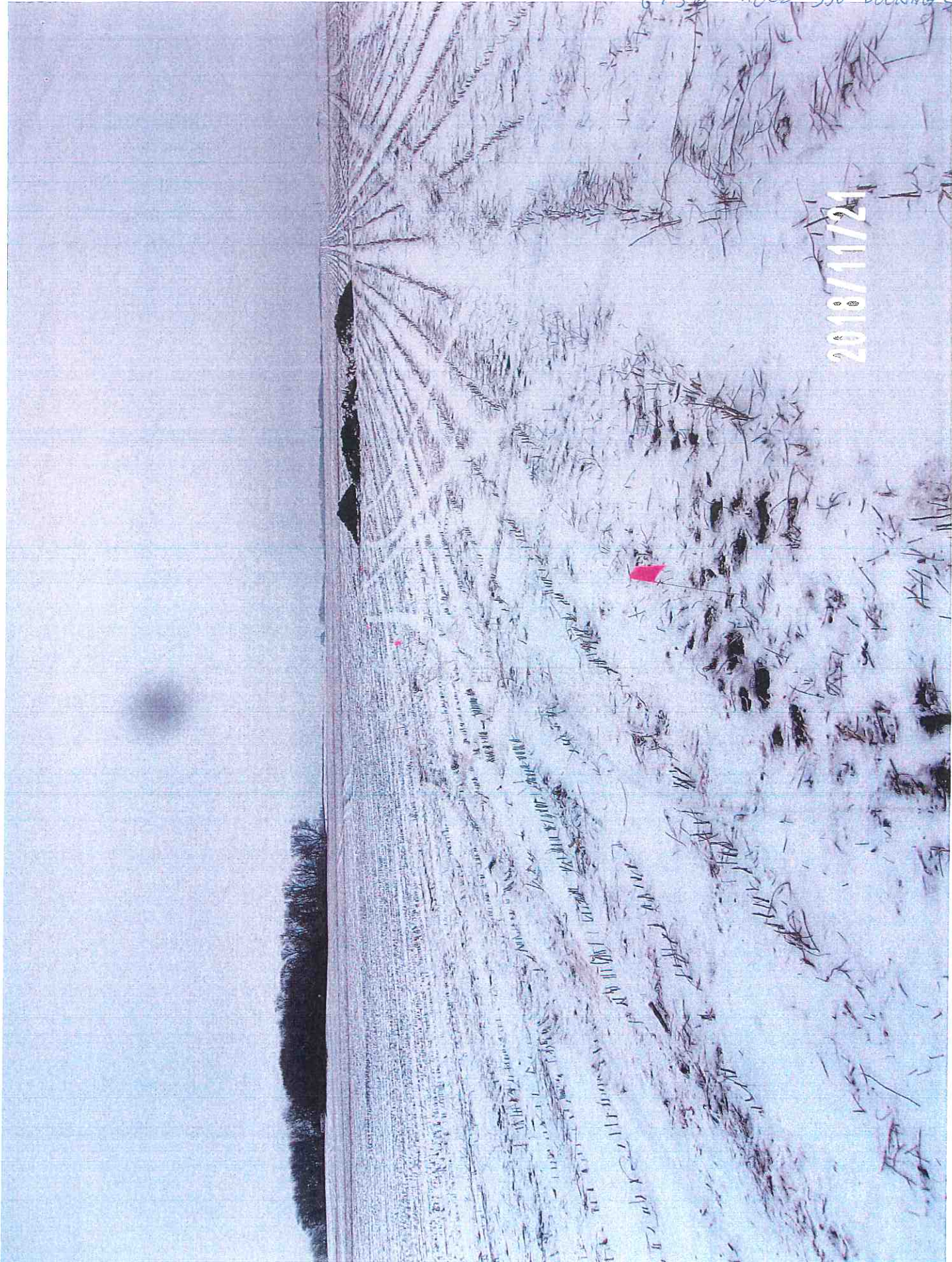
6735 HOLE 350 LOOKING S.



2011/11/11

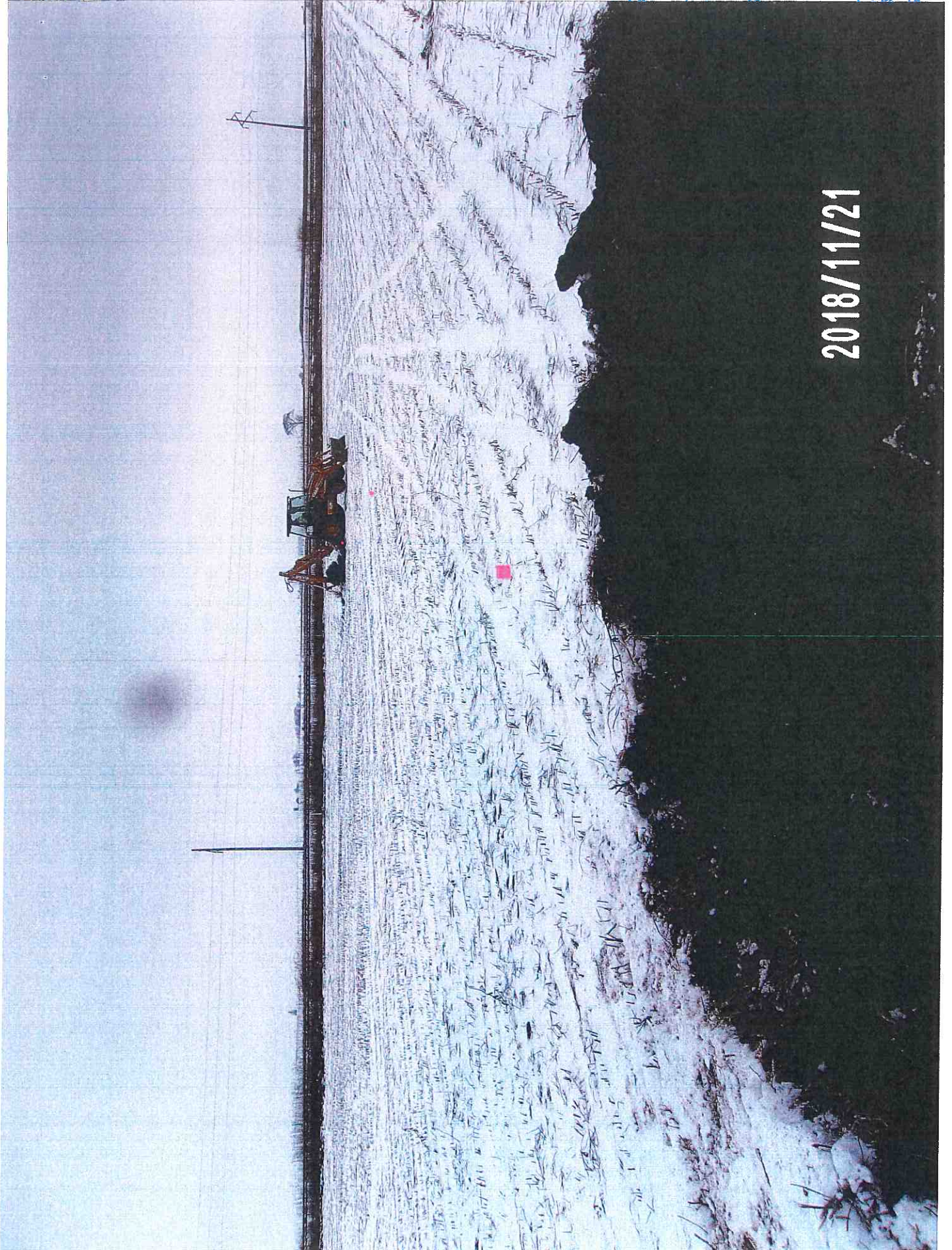
6735 HOLE 350 LOOKING S

2018/11/21





6735 HOLE 350 LOOKING N



2018/11/21

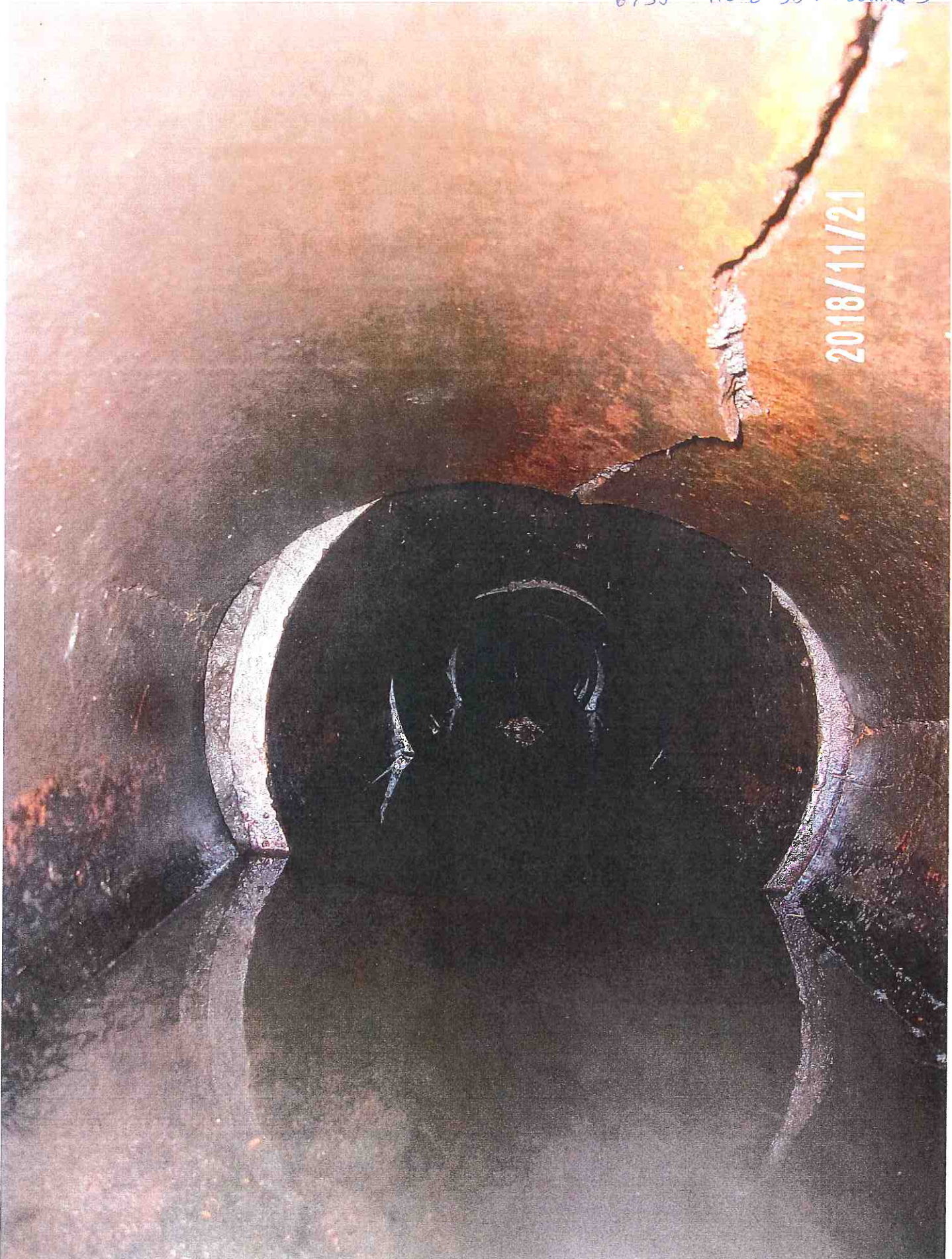
6735 HOLE 350

018/11/21



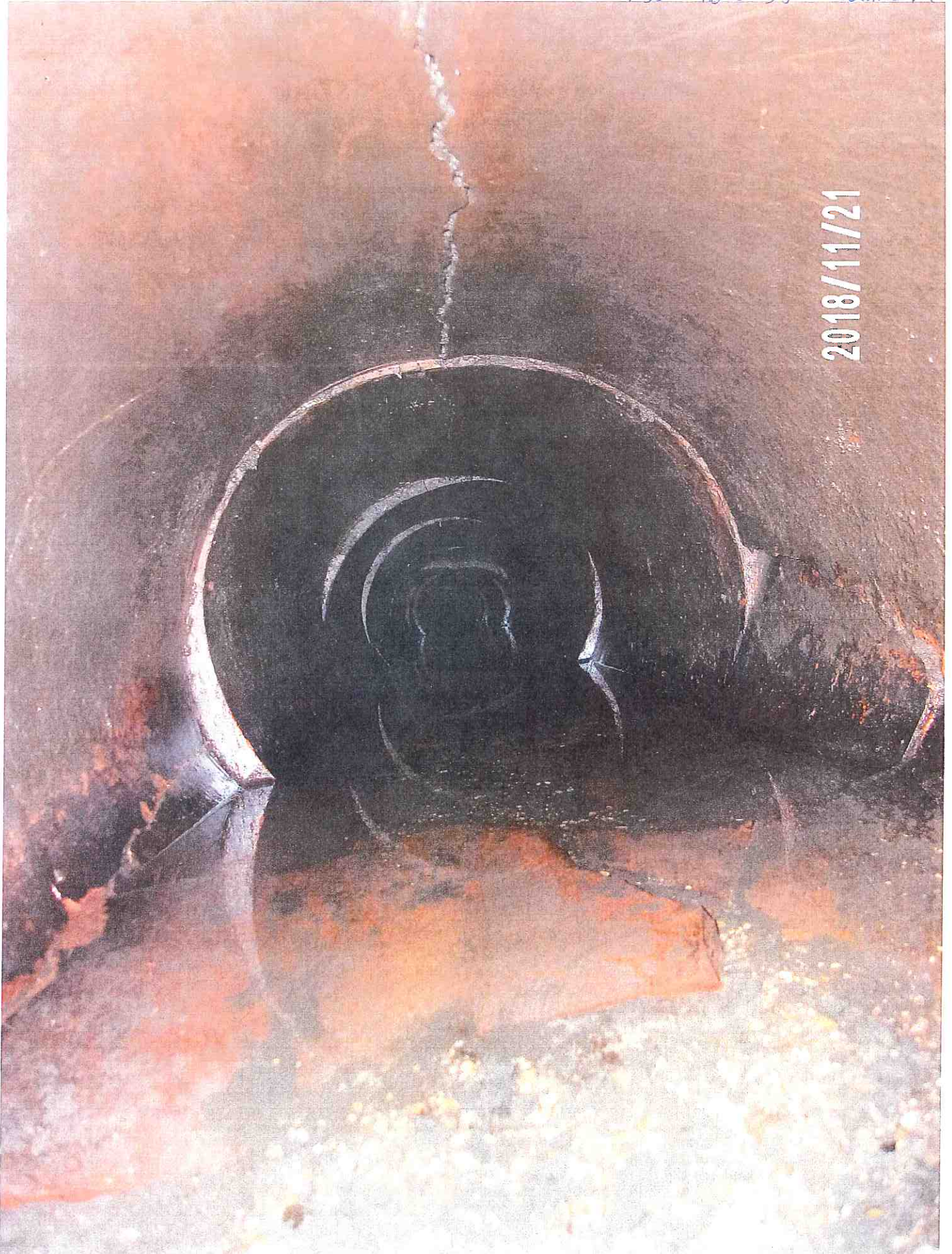
6735 HOLE 354 LOOKING S

2018/11/21



6735 HOLE 354 Looking N.

2018/11/21



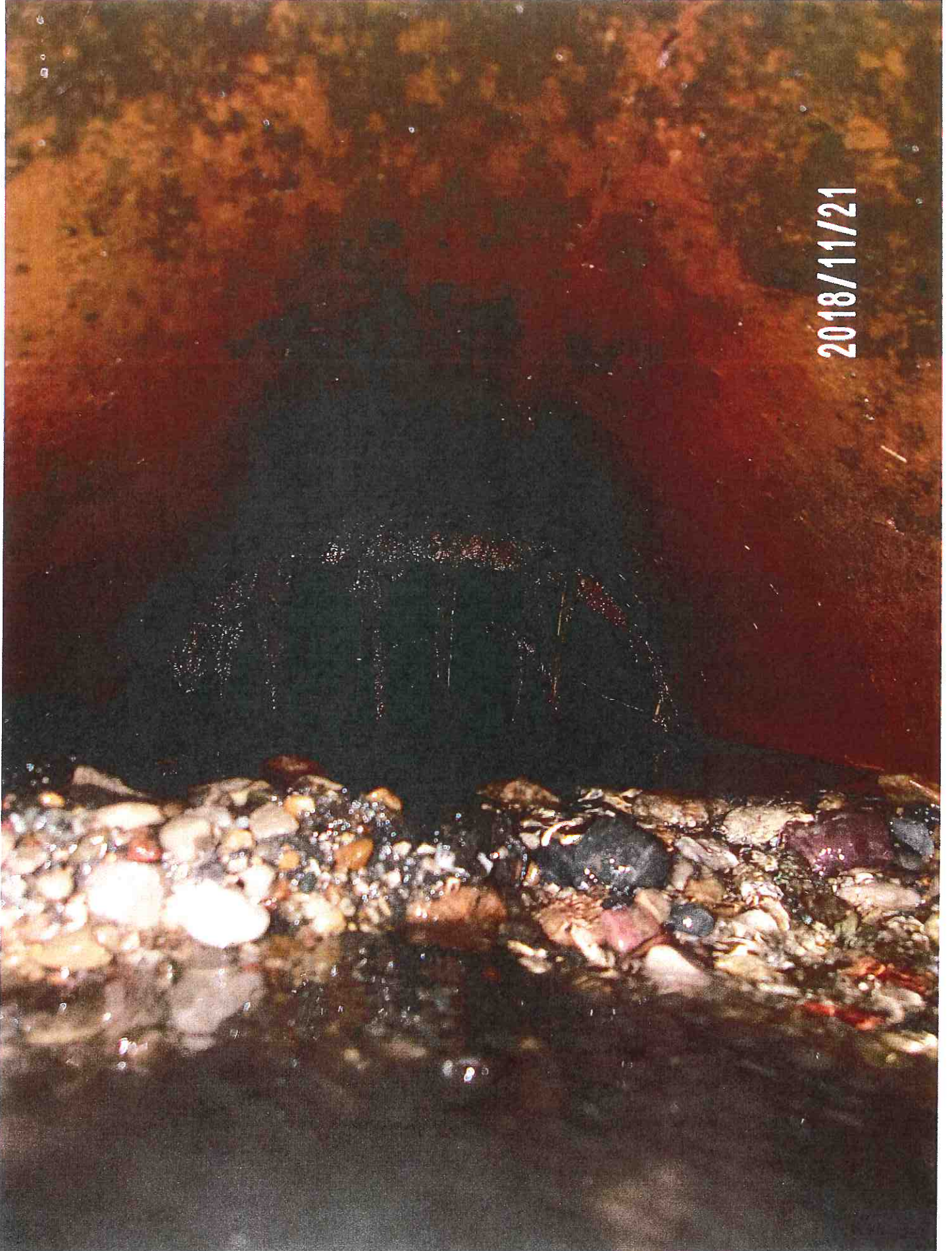
6725 HOLE 344 LOOKING S

2018/11/21



6735 HOLE 344 LOOKING N

2018/11/21



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE: 11/23/18

PROJECT NUMBER: \_\_\_\_\_  
COUNTY, ROUTE, ROAD: 6735  
LOCATION: Rosearts Farm, N. of D25

DAYS OF WEEK: 

S	M	T	W	T	F	S
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SHEET NO. 1 OF 1

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

Cloudy, scattered showers, 35°, Breezy from S.E.  
ARRIVED @ JOB @ 9:30, No crew on site.  
EMERGENCY CREW ARRIVED @ 10:00 A.M. STARTED TEMP. REPAIRS ON ACCESS INSPECTION  
6" x 6" HOLES IN TILE BY LAYING A 12" x 12" PIECE OF DUAL WALL AND FABRIC  
OVER HOLE AND BACKFILLING WITH NO COMPRESSION, MINIMAL BUCKET COMPRESSION  
PANOSY BREWEN SAID HE WOULD NOT DO THIS LONGER 20' REPAIR WITHOUT  
TILE IS FULL OF DIRT, HE COULDN'T GET ANY PIPE TODAY.  
LEFT JOB @ 10:30 FOR DD125W

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

Observer's Signature: [Signature]

Date Prepared: 11/23/18

Reviewed by: \_\_\_\_\_

Engineer

Date Reviewed \_\_\_\_\_

RANDY BROWN AND BACKHOE TO DO TEMP FIXES ON DD 9

11/23/18





REPAIRING TEMP FIX'S



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11/26/2018

PROJECT NUMBER:

6735 HARDIN COUNTY  
DRAINAGE  
WO# 229

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

DD#9

SHEET NO.

1 OF 1

LOCATION: NORTH OF CO HWY DD25 & HAVE INTERSECTION  
"RACINE" SE OF UPRR

MID TEENS TO LOW 20'S OVERCAST  
& WINDY WITH LIGHT FLURRIES.

JOB# 6735 DD9 H. SURVEY

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

8:50 A.M. RANDY FROM OUR OFFICE INFORMED ME THAT LEE RECEIVED  
AN EMAIL FROM RANDY BROWN THAT THEY WILL BE MAKING  
TEMPORARY TILE REPAIRS FOR 6735/DD#9 TODAY AND WILL  
BE ON SITE AROUND 10:00 A.M.

8:55 A.M. RANDY GAVE ME THE WORK FILE FOR 6735/DD#9  
AND ALSO GAVE ME THE WORK FILE FOR 6952.1 DD#148  
IF THEY DID GET TO THAT REPAIR TOO

9:00 A.M. OBSERVER TRIED CELL PHONE NUMBER FOR RANDY BROWN  
TO VERIFY IF HE WAS STILL PLANNING ON BEING @ JOB SITE  
AROUND 10:00 A.M. BUT MESSAGE CAME UP THAT THIS  
NUMBER WAS NO LONGER IN SERVICE. TRIED PHONE NUMBER  
THAT RANDY RECEIVED A CALL FROM RANDY BROWN ON 11/23/2018  
BUT WENT TO VOICEMAIL. LEFT MESSAGE ON THAT CELL PHONE  
TO VERIFY IF RANDY WOULD BE ON SITE AROUND 10 A.M.

9:20 A.M. OBSERVER LEFT OFFICE ENROUTE TO SITE.

9:50 A.M. OBSERVER ARRIVED ON SITE WITH NO ACTIVITY ON SITE.

10:25 A.M. RANDY AND NICK ARRIVED ON SITE WITH CASE  
580 SURE M BACK HUE ALREADY IN FIELD. CREW SAID  
THEY WERE RUNNING LATE SINCE PICKUP WOULD NOT START  
THIS MORNING AND HAD TO JUMP START IT. CREW PLUGGED  
ENGINE BLOCK HEATER INTO GENERATOR.

10:44 A.M. CREW HAD BACKHOE RUNNING

11:00 A.M. CREW FOUND FROZEN SOIL AROUND CLAY TILE REPAIR. CREW THOUGHT  
THEY WOULD DO MORE DAMAGE THEN GOOD WHILE TRYING TO REMOVE  
FROZEN SOIL SO THEY WILL WAIT TILL ABOUT WEDNESDAY TO FINISH  
REPAIRS WHEN TEMPERATURES ARE WARMER.

11:00 A.M. OBSERVER LEFT SITE. CREW WAS MEASURING UP PIPE NEEDED FOR TEMPORARY  
REPAIRS

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

Observer's Signature: Dean Penny

Date Prepared: 11/26/2018

Reviewed by: \_\_\_\_\_

Engineer

Date Reviewed \_\_\_\_\_

CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

11/29/18

PROJECT NUMBER:

6735

DAYS OF WEEK:

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

COUNTY, ROUTE, ROAD:

DD9 HARDIN

SHEET NO.

OF

LOCATION:

D25 and H. Ave. North, UPRR

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

Partly Sunny, 30°, CALM,

ARRIVED @ JOB SITE @ 10:00 AM, RANDY BROWN CALLED SAID HE WON'T BE THERE TILL 12:00 NOON. LEFT FOR DD68 H. @ DAGO LAKE.

ARRIVED BACK @ JOB DD9 @ 11:45, NO CREW YET.

12:15 P.M., RANDY AND NICK SHOWS UP WITH PARTS TO REPAIR 4" PLASTIC TILE ACCIDENTALLY BROKEN DURING EXPLORATION DIG @ #321. BUT ITS A 5", RANDY WENT BACK TO GET PARTS FOR A 5", CAN'T FIND ANY. USED A 2' PIECE OF 6" DUAL WALL SHIP OVER THE 5" SINGLE WALL TIGHT FIT WITH FABRIC OVER. THEY ALSO PUT A CHUNK OF DUAL WALL AND FABRIC OVER INSPECTION HOLE AND BACK FILL. PILES OF DIRT ARE FROZEN, 1' THICK. HARD TO BACKFILL.

1:30 P.M. WENT TO HOME #354 WITH BROKEN CLAY TILE. TOOK OUT 75" OF BROKEN CLAY TILE AND REPAIRED IT WITH 15" DUAL WALL HDPE AND FABRIC JOINTS (6'3")

3:00, CREW IS DONE WITH REPAIRS FOR TODAY. RANDY BROWN SAID HOPEFULLY THEY WILL ROCK AND PIPE TOMORROW.

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

Observer's Signature:

Date Prepared:

11/29/18

Reviewed by:

Engineer

Date Reviewed

6'3" REPAIR TEMP



6'3" Repair Temp.



PRIVATE TILE REPAIR @ 5" IPE WITH 6" HOPE OVER TOP



009, 6'3" REPAIR



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

3/8/19

PROJECT NUMBER:

6735

COUNTY, ROUTE, ROAD:

DD 9 HARDIN

LOCATION:

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

Cloudy, Foggy, 25°, Wind From S.E., RAIN PREDICTED FOR TOMORROW. 1/2' OF SNOW ON GROUND, LOTS OF ICE. 2' OF FROZEN EARTH IN FIELDS

8:30 ARRIVED @ JOB SITE @ "RACINE" GHOST TOWN. CONTRACTOR "McDOWELLS" ARE ON SITE 3 MEN + RUBBER TIRE BACKHOE. PLAN IS TO REMOVE BROKEN 14" CLAY TILE (ALREADY EXPOSED BY RANNEY BROWN), AND REPAIR PERMANENTLY WITH 15" HOPE DUAL WALL / ROCK / CONC. COLLARS. BARE MINIMUM IS TO GET HOPE IN PLACE WITH ROCK AND FABRIC OVER CONNECTIONS. BACK FILL MATERIAL ON SITE MAY BE TO FROZEN. WOULD HAVE TO POUR COLLARS @ A LATER DATE. 1" OF RAIN IS PREDICTED TOMORROW AND THIS COULD WASH MORE DIRT IN TILE.

EASTING HOLE FROM RANNEY BROWN #340 IS FULL OF SNOW, LEVEL FULL!

11:30 A.M., BEDDING ROCK @ F IS IN PLACE. 18'4" BETWEEN ENDS ON CLAY TILE.

JIM IS BRINGING 20' STICK OF 15", 5 TON ROCK, FABRIC, 12 BAGS CONC., WIRE MESH.

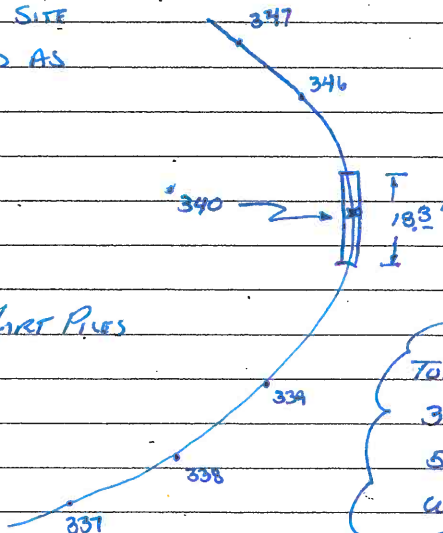
1 TON OF ROCK WAS EXISTING ON SITE

FROM RANNEY BROWN. IT WAS USED AS BASE ROCK IN F.

1:30, TILE IN PLACE, BACK FILLED WITH ROCK.

WILL NEED TO PUSH FROZEN DIRT PILES IN WHEN THAWED OUT.

FURTHER ACTION NEEDED



TOTAL FOR TODAY 3/8/19

3 MEN + BACKHOE = 5 HRS.

5 TON 1" CLEAN ROCK

WIRE MESH

FABRIC

18.3' OF DUAL WALL 15" HOPE

12 BAGS CONC.

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

Observer's Signature:

*[Handwritten Signature]*

Date Prepared:

3/8/19

Reviewed by:

Engineer

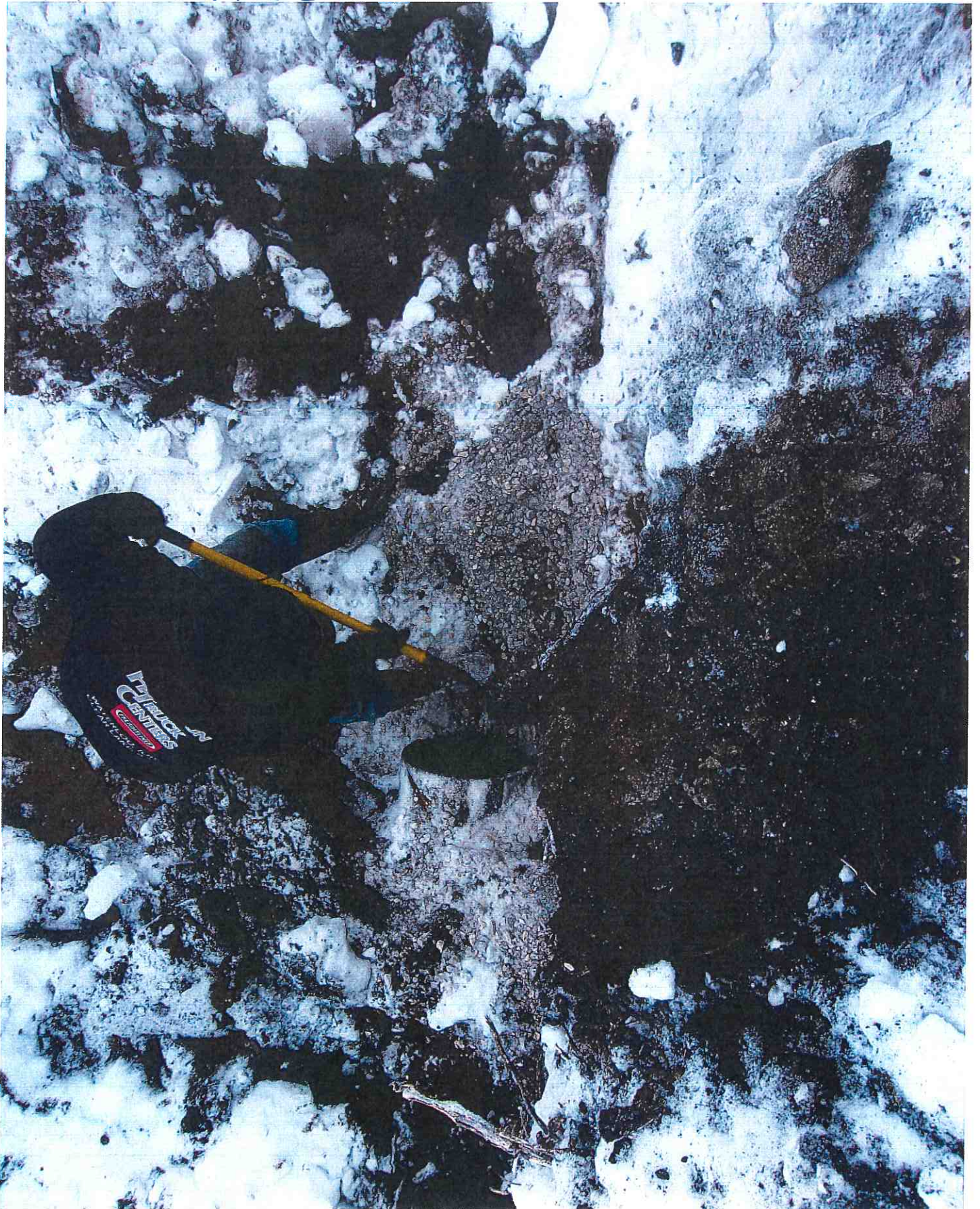
Date Reviewed



REMOVING SNOW FROM EXISTING HOLE @ #340



PLACING BROODING ROCK @ F



CONDITIONS @ JOB SITE



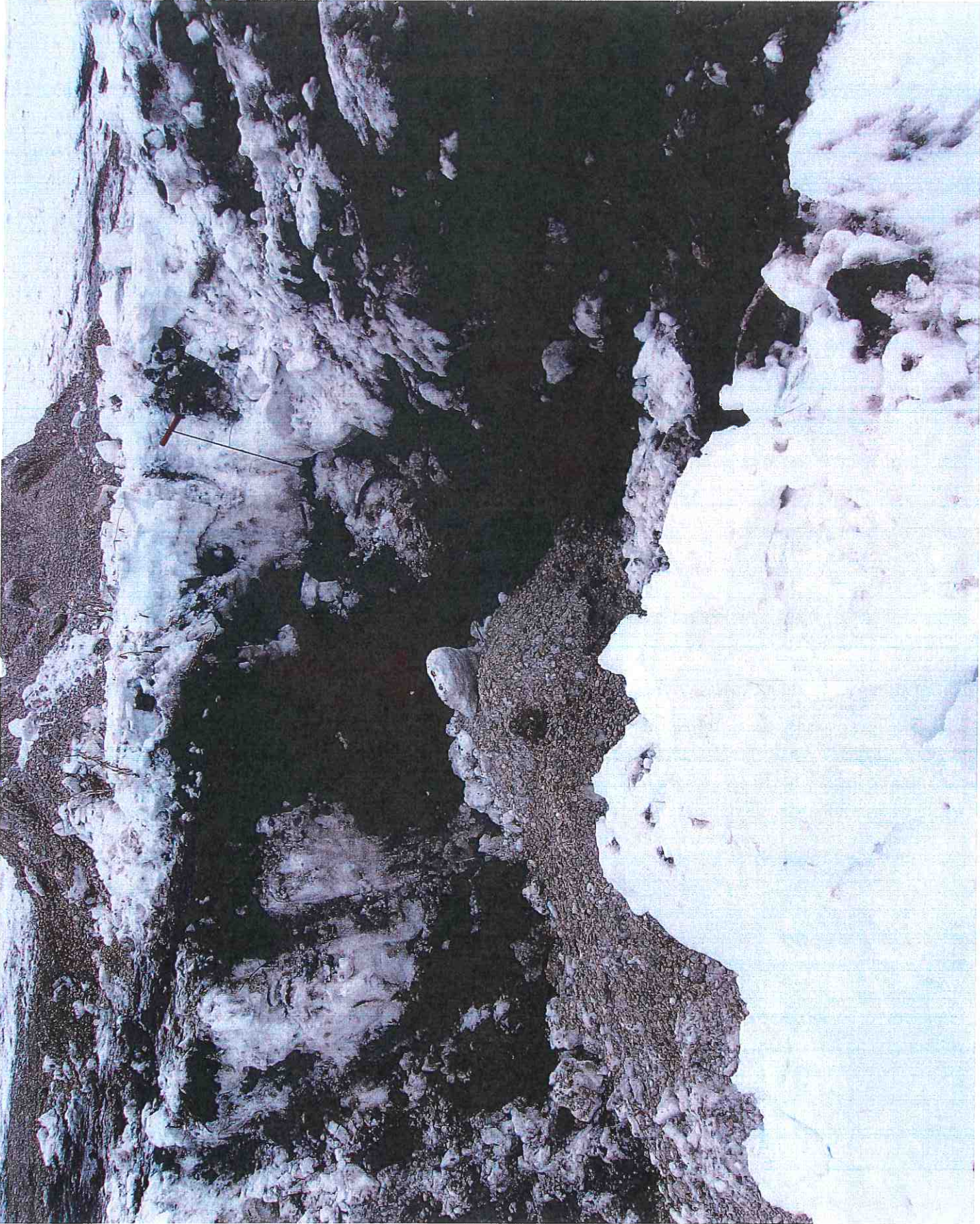
CONDITIONS @ JOB SITE #340



LOADING UP 12 BAGS CONE FOR 3/4 COLARS



6 TON BRIDGING ROCK USED



PLACING ROCK AROUND 15" HOPE



18.3' OF 15" HDPE dual Wall





CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

4/3/19

PROJECT NUMBER: \_\_\_\_\_  
COUNTY, ROUTE, ROAD: 6735  
LOCATION: DD9 H.

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

Cloudy, LIGHT RAIN

Drove IN OFF Co. Hwy @ DD9, To muddy To drive To Hole,  
Pile of dirt is gone, Hole must BE Filled, Hopefully they HAD ENOUGH dirt  
Jim McDowen Drove Russ AND CONFIRMED THAT Hole WAS Filled AND No  
imported dirt NEEDED.

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

Observer's Signature: [Signature] Date Prepared: 4/3/19

Reviewed by: \_\_\_\_\_  Engineer

Date Reviewed: \_\_\_\_\_

3,3618723.499,4931323.978,1161.577,COMMON 8005  
4,3624567.908,4967262.956,1167.807,CP 3/4 .5DOWN  
300,3629737.028,4962244.618,1146.788,GS FO  
301,3629822.903,4962308.404,1146.891,FNL RR  
302,3629791.707,4962284.913,1147.160,FNL RR  
303,3629758.052,4962260.329,1146.995,FNL RR  
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306,3629802.148,4962282.548,1146.295,GS TILELOCATE  
307,3629810.400,4962298.964,1147.030,GS TILELOCATE  
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310,3629870.624,4962355.908,1146.838,GS TILELOCATE  
311,3629891.427,4962375.437,1146.813,GS TILELOCATE  
312,3629925.863,4962404.629,1146.573,GS TILELOCATE  
313,3629938.454,4962416.585,1137.943,FL 18"CLAYTILE  
314,3629966.977,4962450.914,1146.365,GS TILELOCATE  
315,3630000.822,4962485.614,1146.076,GS TILELOCATE  
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338,3630526.017,4963368.056,1146.568,GS TILELOCATE  
339,3630540.580,4963386.775,1146.581,GS TILELOCATE  
340,3630555.208,4963401.223,1140.781,FL 15"CLAY@BLOWOUT  
341,3630929.429,4963280.734,1143.344,FL INTAKE BEEHIVE  
342,3630928.602,4963282.665,1145.920,GS  
343,3631016.362,4963171.872,1146.759,FNL RR  
344,3631020.255,4963167.827,1142.396,FL 15"CLAYTILE  
345,3630999.195,4963158.235,1146.570,GS FO  
346,3630614.913,4963420.609,1145.835,GS TILE LOCATE  
347,3630650.646,4963417.231,1146.017,GS TILE LOCATE  
348,3630708.938,4963395.887,1146.757,GS TILE LOCATE  
349,3630756.966,4963375.972,1147.574,GS TILE LOCATE  
350,3630790.418,4963361.690,1141.512,fl clay 15"  
351,3630800.420,4963356.626,1146.844,GS TILE LOCATE  
352,3630850.131,4963334.822,1146.385,GS TILE LOCATE  
353,3630901.850,4963302.566,1146.282,GS TILE LOCATE  
354,3630917.044,4963287.278,1141.856,fl clay 15"  
355,3630925.850,4963277.378,1145.963,GS TILE LOCATE  
356,3630967.858,4963229.027,1146.672,GS TILE LOCATE  
357,3631010.898,4963176.712,1146.134,GS TILE LOCATE  
358,3631028.257,4963156.684,1146.702,GS TILE LOCATE  
359,3631042.449,4963139.401,1150.590,GS TILE LOCATE  
8016,3618659.060,4946889.650,1169.720,GPS MON  
8016\_GNSS,3618659.060,4946889.650,1169.720,Autonomous Setup