

**AGENDA
DRAINAGE DISTRICT 167
LANDOWNER MEETING
JULY 25, 2018 AT 11:00 A.M.**

1. Open Meeting
2. Approve Agenda
3. Attendance/Introductions
4. Explanation Of Project

Documents:

[DD167WO208.PDF](#)

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



Drainage Work Order Request For Repair Hardin County

Date: 4/26/2018

Work Order #: WO00000208

Drainage District: Drainage Districts \DD 167

Sec-Twp-Rge: 04-86-20 Qtr Sec: NE SE

Location/GIS: 86-20-04-400-002

Requested By: Robert Jenson

Contact Phone: (641) 849-0341

Contact Email: _____

Landowner (if different): Neil Martin

Description: Blowout in lower end of waterway in NE SE 4-86-20 with "babies" northwest of it. The ground cover over the tile in this area is very shallow.

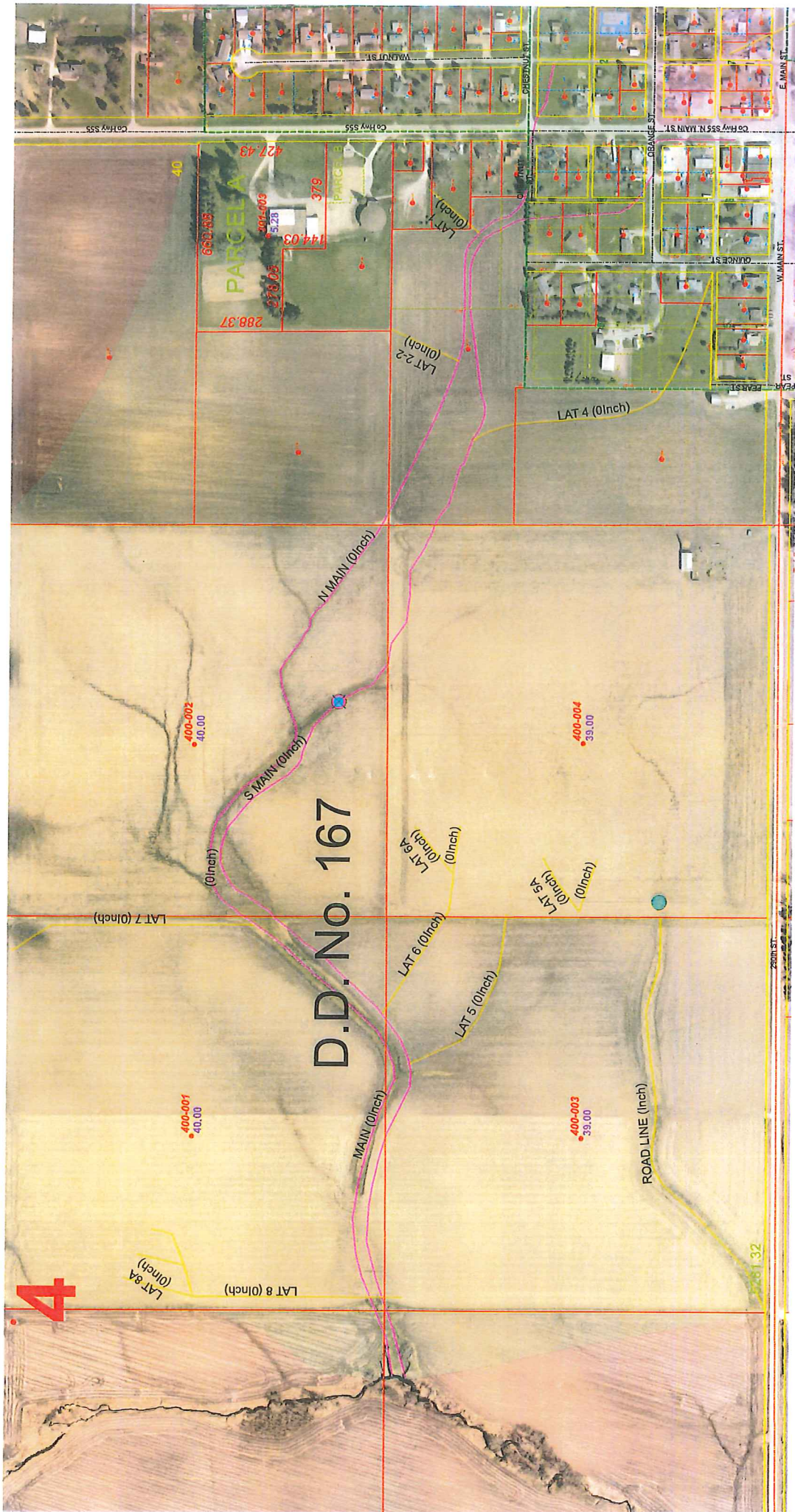
Repair labor, materials and equipment: _____

Repaired By: _____ Date: _____

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

For Office Use Only

Approved: _____ Date: _____



Drainage District:

167

Investigation Summary:

Landowner in the NE¼ SE¼ of Section 4 Township 86 North, Range 20 West reported a blowout/sinkhole in waterway, with smaller depressions upstream (northwest) of said larger blowout/sinkhole. Visual observation found a 6 inch VCP tile 1½'± to 2'± deep (assumed to be south main tile). Water is exiting the tile through multiple holes upstream, flowing overland flow to the southeast through the waterway, and then entering back into the tile.

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

None as only visual observation performed.

Additional Actions Recommended:

Given the nature of the water flow, it is evident that a tile blockage exists within the area of investigation. Said blockage should be found, removed, and then both the blowout/sinkhole repaired. Also, the multiple holes upstream should be excavated and repaired as necessary. Due to the lack of soil cover, repairs would typically be performed with concrete pipe. However, concrete pipe is only available in 12 inch and larger diameter. Therefore, the repairs must either be performed with 6 inch dual wall HPDE tile or 12 inch concrete pipe.

Since this is the second work order in 2 years in this area, the District Trustees may wish investigate relocation or replacement of the district tile to provide for more soil cover, extended lifespan, and fewer repairs.



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

5/11/18

PROJECT NUMBER:

6954.1

COUNTY, ROUTE, ROAD:

DD167

LOCATION:

New Providence, West

DAYS OF WEEK:

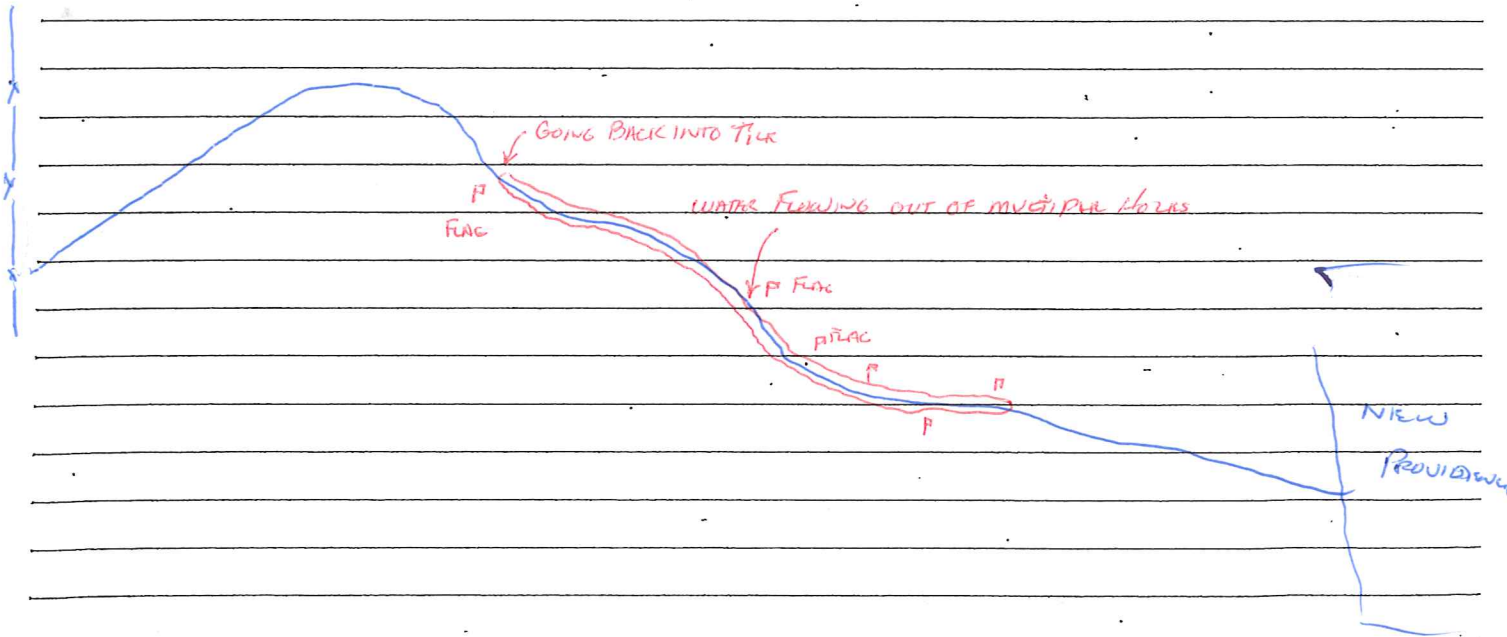
S M T W T F S

SHEET NO.

OF

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

Partly Sunny, 65°, Windy From East, Rain Earlier
Arrived @ Job Site 9:00 A.M., called and talked to Robert Jensen,
He met me and drove his pickup out to Blow-outs Found 6"± clay tile
1 1/2 - 2' deep, Blowing out water in multiple places (6 or more) All look to
be joints. Must have a collapse down stream causing water to surge up thru
butt joints and then go back into tile past the collapse or blockage.
This looks to be the S. main
Find and fix blockage ASAP, the rest of tile should be OK.
Talked to Robert about shifting swage or tile route to get more cover.
This will be a on going problem with the minimum cover this butt joint tile
has.



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

Observer's Signature:

[Handwritten Signature]

Date Prepared:

5/11/18

Reviewed by:

Engineer

Date Reviewed

Looking NW @ Biggest Hole, 2' cover

