

AGENDA
DD 86 LANDOWNER MEETING
JULY 17, 2019 AT 11:00 AM

1. Open Meeting
2. Approve Agenda
3. Approve Claims For Payment
- Payment date of July 19, 2019

Documents:

[PAYABLES-DRAINAGE PUBLICATION.PDF](#)

4. Introductions/Attendance
5. Explanation Of Investigation Report

Documents:

[DD86WO252 INVESTIGATION.PDF](#)

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



Hardin County

Drainage Claims with Pay Date of 7/19/2019

Description	Vendor	Amount
DD 22- Construction Phase	Clapsaddle-Garber Assoc	456.70
DD 78 - Investigation of ponding	Clapsaddle-Garber Assoc	365.20
DD 86 - Inv. outlet structure, trees and siltation	Clapsaddle-Garber Assoc	352.20
DD 9 - Hearing for Eng Rpt & Supp Eng Rpt for Main	Clapsaddle-Garber Assoc	1,118.80
DD 38 - Finalization of repair to lat 4	Clapsaddle-Garber Assoc	308.70
DD 52 - Communicating with Shawn Piel	The Davis Brown Law Firm	40.00
DD HF 5-75 - Notice of Public Hearing	Times Citizen	97.76

Total Regular Payables: 1,174.10
Total Stamped Warrants: 1,565.26

Drainage District:

86

Investigation Report:

- Friend of Monarch pond landowner reported erosion around Monarch pond outlet structure and siltation from adjoining properties located in NW¼ of Section 24, Township 89 North, Range 21 West.
- Met with friend, visually observed Monarch pond area, and found the following:
 - Erosion of Monarch pond outlet/district tile inlet appears to be solely affecting decorative field stone in area and does not appear to be endangering district facility.
 - Sand washing onto Monarch pond property is from surface water south of railroad tracks and from field to the west (both are within district boundaries).
- Visually searched area along Main tile route downstream (to end of mapped Main tile) and upstream (to Dago Lake) and found the following trees to be within approximately 50' of assumed Main tile route.
 - 20 - Maples (less than 6"Ø)
 - 1 - Maple (5'Ø or larger)
 - 40 - Box Elders and Mulberries (less than 12"Ø) in Railroad Right of way
 - 3 - Cottonwood (30"Ø or larger)
 - 1 - Elm (12"Ø)
 - 5 - Elms and Ash (less than 12"Ø)
 - 14 - Box Elders and Honeysuckle Brush (less than 15"Ø)
 - 31 - Box Elders (20"Ø)
 - 15 - Box Elders and Elderberry Brush (less than 6"Ø)
 - 24 - Box Elders and Ash (20"Ø)
 - 50 - Box Elders and Ash (less than 15"Ø)

Said trees appear to be impeding drainage as there are intakes downstream of Georgetown Road that are full of stagnant water and surrounded by siltation (evidence of overflow).

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

None as only investigation was performed

Additional Actions Recommended:

All the trees listed above are the species that typically have major negative impacts on the capacity of district tile. It is CGA's opinion that they already have restricted the drainage the Main Tile and will fully plug it if allowed to continue to grow. Therefore, it is our recommendation that the Main tile route be verified, all trees within 50' of the Main tile downstream of Dago Lake be removed, and the drainage capacity of the Main tile reinstated. It is our opinion that the cost of verifying the Main tile route and removing these trees would be between \$25,000-\$40,000. This cost is low enough that neither a hearing nor an engineer's report would not be required. However, the extent of restriction in the Main tile and appropriate corrective actions cannot be identified until the trees are removed. Therefore, an opinion of probable construction cost cannot be generated for this portion of the recommended work.

Also based on the above, the siltation of concern is carried by surface water between private landowners and is not a district issue.





Drainage Work Order Request For Repair

Hardin County

Date: 4/29/2019

Work Order #: WO00000252

Drainage District: DDs\DD 86 (51114)

Sec-Twp-Rge: _____ Qtr Sec: _____

Location/GIS: _____

Requested By: Aaron Matthews

Contact Phone: _____

Contact Email: _____

Landowner (if different): _____

Description: DD 86 - Outlet structure on Matthews property is becoming washed out with ponding problems

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: _____

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

4/25/19

PROJECT NUMBER:

6789,3

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

DD86

SHEET NO.

1 OF 2

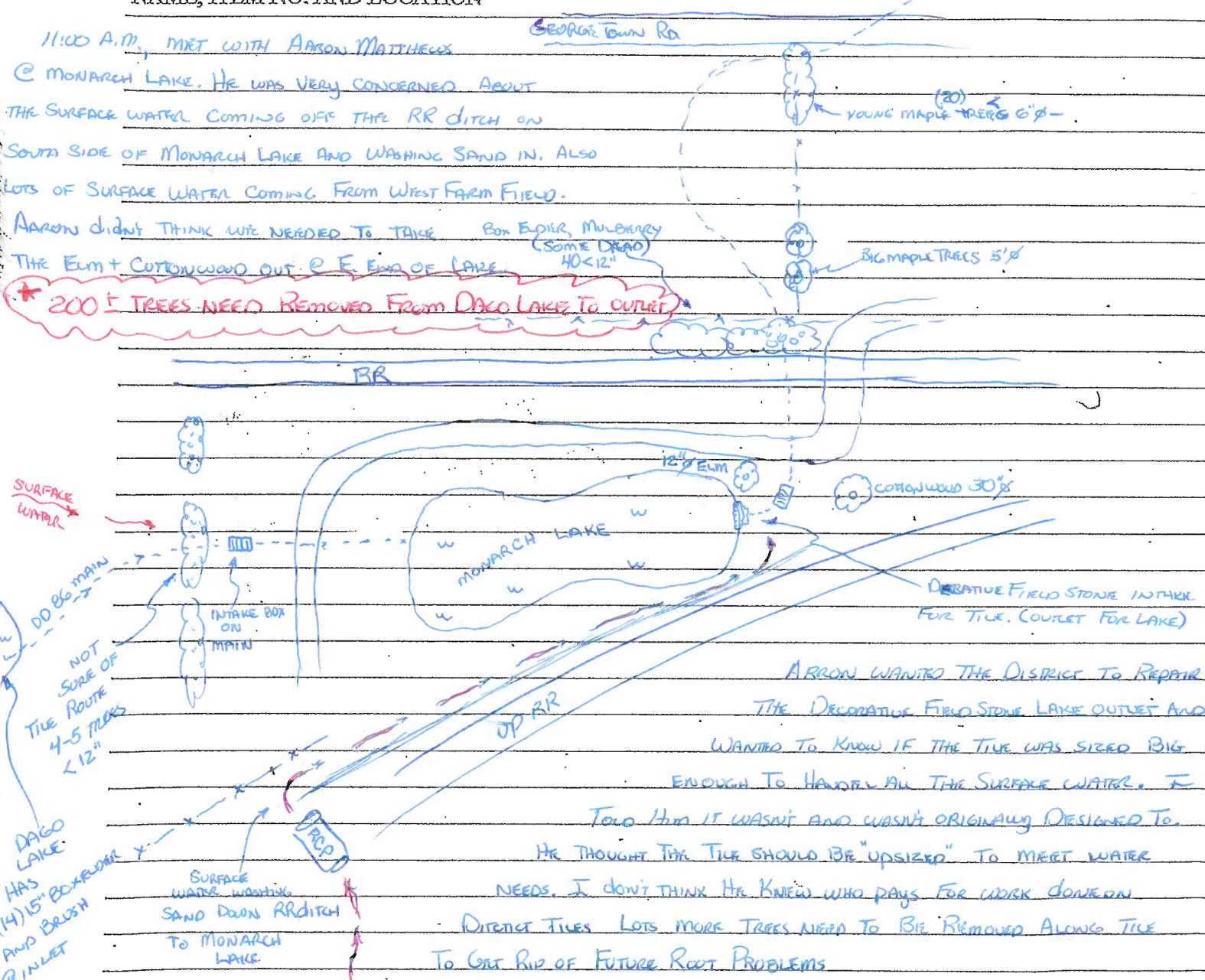
LOCATION:

MONARCH LAKE

RAIN, 60°, WIND FROM NW

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

11:00 A.M., MET WITH ARRON MATTHEWS
@ MONARCH LAKE. HE WAS VERY CONCERNED ABOUT
THE SURFACE WATER COMING OFF THE RR DITCH ON
SOUTH SIDE OF MONARCH LAKE AND WASHING SAND IN. ALSO
LOTS OF SURFACE WATER COMING FROM WEST FARM FIELD.
ARRON DIDN'T THINK WE NEEDED TO TAKE BOX ELM, MULBERRY
(SOME DEAD) 40<12"
THE ELM + COTONWOOD OUT @ E END OF LAKE
★ 200+ TREES NEED REMOVED FROM DAGO LAKE TO OUTLET



ARRON WANTED THE DISTRICT TO REPAIR
THE DECORATIVE FIELD STONE LAKE OUTLET AND
WANTED TO KNOW IF THE TILE WAS SIZED BIG
ENOUGH TO HANDLE ALL THE SURFACE WATER. I
TOLD HIM IT WASN'T AND WASN'T ORIGINALLY DESIGNED TO.
HE THOUGHT THE TILE SHOULD BE "UPSIZED" TO MEET WATER
NEEDS. I DON'T THINK HE KNEW WHO PAYS FOR WORK DONE ON
DISTRICT TILES. LOTS MORE TREES NEED TO BE REMOVED ALONG TILE
TO GET RID OF FUTURE ROOT PROBLEMS

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

Observer's Signature: [Signature] Date Prepared: 4/25/19

Reviewed by: _____ Engineer _____ Date Reviewed _____

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

DAYS OF WEEK:

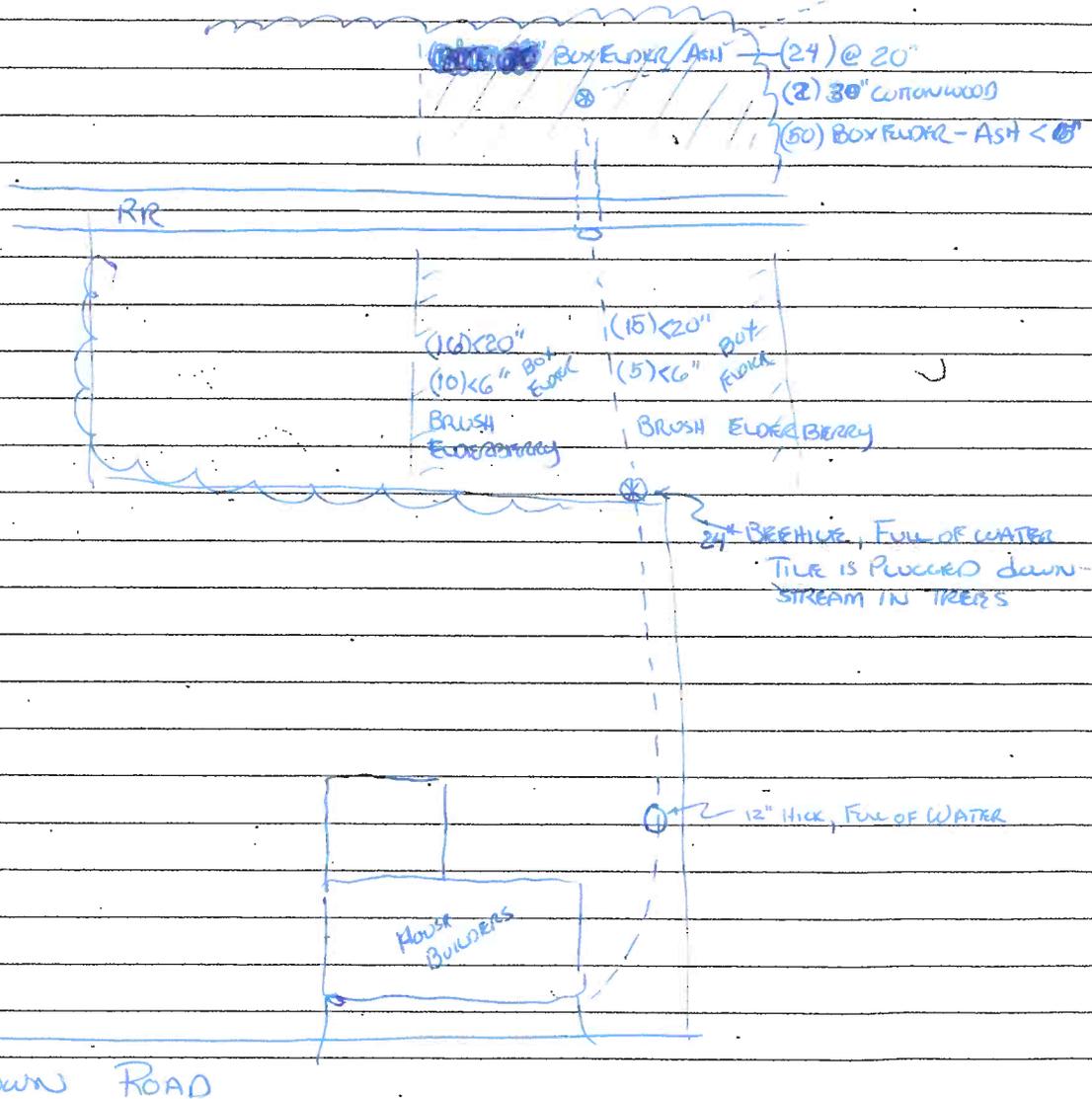
S M T W T F S

SHEET NO.

2 OF 2

PROJECT NUMBER: 67893
 COUNTY, ROUTE, ROAD: DD 86
 LOCATION: _____

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



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

Observer's Signature: [Signature]

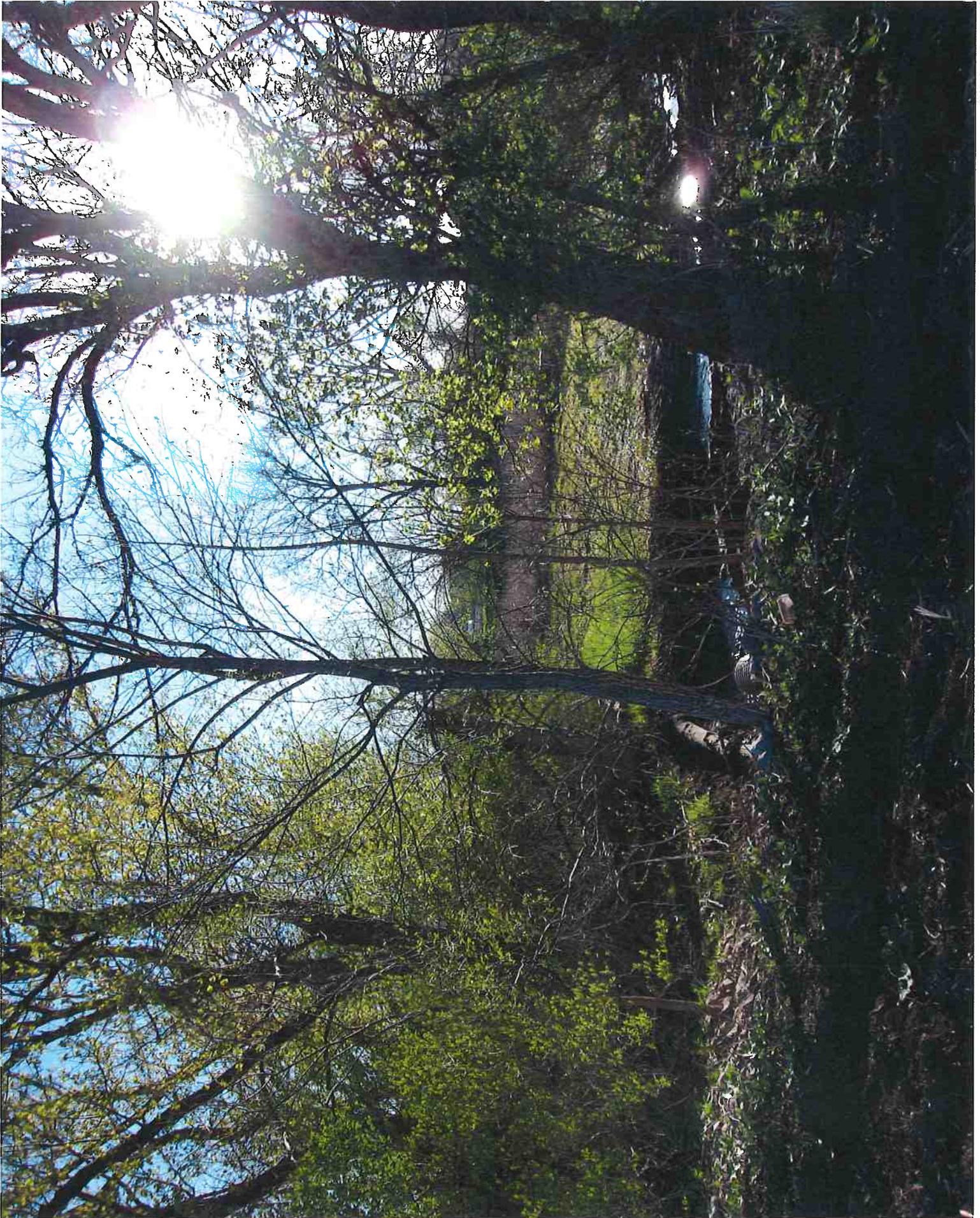
Date Prepared: 4/25/19

Reviewed by: _____

Engineer

Date Reviewed: _____

DAGO LAKE INLET (DD86 OLD MAIN) (14) 15" BOX ELDER AND HONEYSUCKEE BRUSH NEEDS REMOVED



LOOKING WEST FROM MONARCH TO DAGO LAKE



Looking East @ Monarch Lake Tye Route (5) Trees Need Removed (Not Cedar Trees)



INTAKE ON TILE @ E. END OF MONARCH LAKE



LOOKING W. FROM INTAKE



SURFACE DRAINAGE From S. RR @ MONARCH LAKE



Looking E. on N. R/w RR @ S. Edge Monarch Prop.



LOOKING UPSTREAM FROM GEORGETOWN ROAD



TILE ROUTE 1

Looking upstream From S. side RR To Georgetown Road



Looking downstream @ RR mainline, surface TurbE drains into DD86 tile



Looking upstream @ Tile Route towards Georgetown, Bee Hive is @ Tile Turn to East



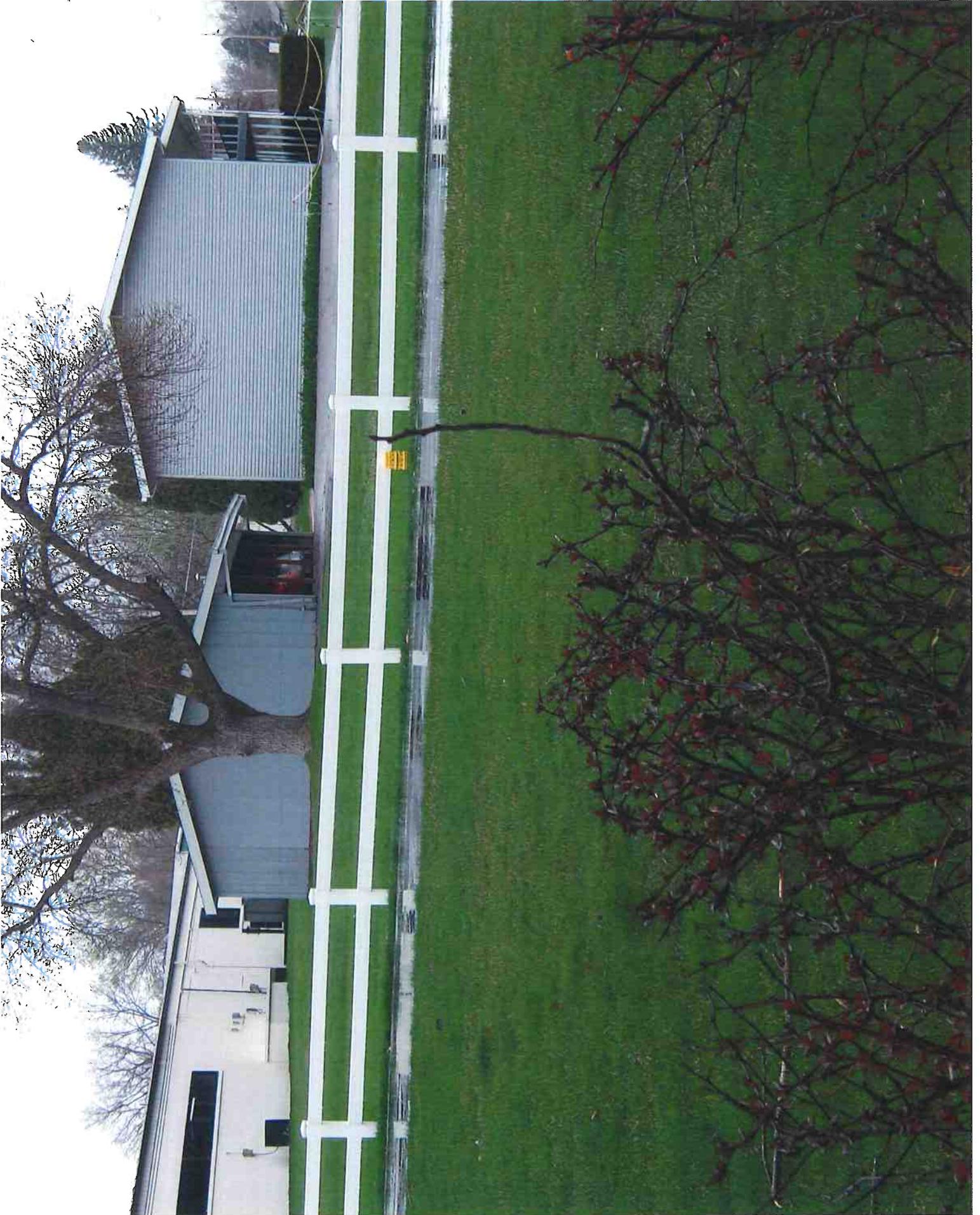
LOOKING EASTERLY FROM BEEHIVE TO OUTLET IN CITY STORM SEWER



City Storm Sewer Outlet



LOOKING UPSTREAM FROM CITY STORM SEWER OUTLET



BEEHIVE INTAKE IS IN TREES SOMEWHERE 90+ TREES IN THE R/W N. OF RR



LOOKING DOWNSTREAM FROM TREES

TILE ROUTE



Looking upstream From where surface water dumps into TIE (I'm standing on it)



Looking upstream towards Georgetown Rd.



Looking downstream From S R/w Spur RR



TILE ROUTE MARKED WITH BROKEN TILE



TILE ROUTE WITH CHARDS IN TREE ROOTS



TILE CHARDS THRU ELDERBERRY BRUSH



TILE REPAIR PIECES DISCARDED



BEEHIVE OVERFLOWING @ NE COR OF GEORGETOWN ADD.



TILE HAS BEEN PARTIALLY PLUGGED FOR SOME TIME
LOOKING DOWN STREAM, NOTE ALL SEDIMENT SAND BLOWN OUT OF INTAKE



LOOKING @ NEW TILE UPSTREAM TOWARDS GEORGETOWN RD.



Looking downstream @ NE cor. of Georgetown AOD.



12" HICK INTAKE FULL OF WATER, SWIRLING



Looking downstream From SE Cor Georgetown AOD.



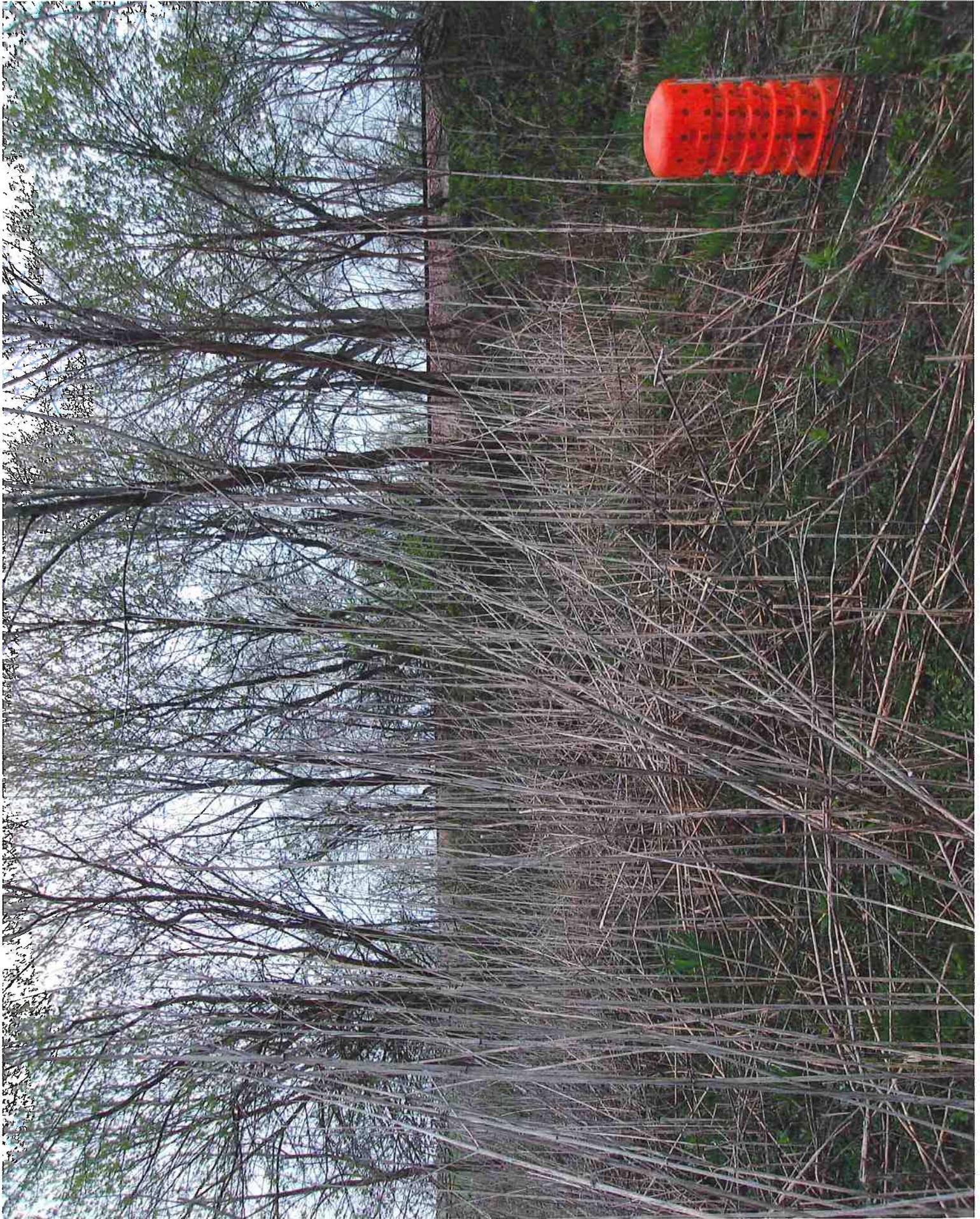
LOOKING W. @ TILE ROUTE ON N. SIDE GEORGETOWN RD.



LOOKING UPSTREAM @ RR @ N. SIDE MONARCH LAKE, 40+ <12"Ø TREES IN RR R/W



TREES IN RR R/W



Looking downstream with 5' \varnothing maple that needs removed

