

VILLAGE OF HORTONVILLE
AGENDA OF THE PUBLIC WORKS COMMITTEE
June 10, 2024
5:30 P.M.
Municipal Service Center
531 N Nash St.



AGENDA

1. Call to Order
2. Preregistered Citizens to be heard. – LIMIT 5 MINUTES
 - A. State name and address
 - B. Comments to be limited to 5 minutes
 - C. Pursuant to WI Statutes 19.83(2) and 19.84(2), The Board's role is to listen to public comments, and not to ask questions, discuss, or take action regarding pre-registered citizens' comments.
3. Discussion on completion of Alley #3 Project
4. Discussion on Opera House Fencing Options
5. Material Storage Site Discussion
6. Discussion on 2025 Projects
 - Fountain Court Stormwater Issues
 - Lakeview Stormwater Issues
7. Discussion on possible action on the creation of a new utility position
8. Motion to go into Closed Session under State Statute State Statute 19.85 (1)(c) "Considering employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercises responsibility."
9. 5-minute recess to clear meeting room
10. Board to go into Closed Session
11. Board to return to Open Session (roll call vote)
12. Any action on matters discussed in Closed Session
13. Any other topics for future discussion
14. Comments and suggestions from citizens present
15. Adjourn

Requests from persons with disabilities who need assistance to participate in this meeting or hearing should be made to the Village Administration Office at 779-6011 with as much advance notice as possible.

Posted: June 7, 2024

Jane Booth, WCMC
Clerk - Treasurer







Contract/Checklist

Custom Fence, Inc.
5335 State Highway 29
Denmark, WI 54208
Ph.: 920-863-1146
Fax: 920-863-1148
Website: www.customfenceus.com
Email: info@customfenceus.com

Contact:

Village Of Hortonville
Aaron Steber
312 W Main St
Hortonville, WI 54944
(920) 378-3958
dpw@vohortonville.com

Job Location:

312 W Main St
Hortonville, WI 54944

Estimate Info:

Date: 05/02/2024
Estimate: Vlg Of Hortonville
(Aaron Steber)-cedar 4'FT
Rep: Matt
Job #949

NOTES:

SUPPLY AND INSTALL APPROX. 230FT OF 4FT HIGH BOARD ON BOARD DOGEARED CEDAR FENCE. ALL POSTS ARE DRIVEN 4FT. DEEP INTO THE GROUND.

Custom Fence Inc. agrees to guarantee above fence to be free from defects in materials and workmanship for one year. Customer must have Custom Fence sticker put on fence in order to guarantee warranty. In order to be scheduled in to our schedule customer must complete the attached installation check list, copy of signed contract, and half down. Custom Fence, Inc. shall advise the customer as to local zoning regulations but responsibility for complying with said regulations and obtaining any required permits shall rest with the customer. Custom Fence, Inc. will assist the customer, upon request, in determining where the fence is to be erected, but under no circumstance does custom Fence Inc. assume any responsibility concerning property lines or in any way guarantee their accuracy. If property pins cannot be located it is recommended that the customer have the property surveyed.

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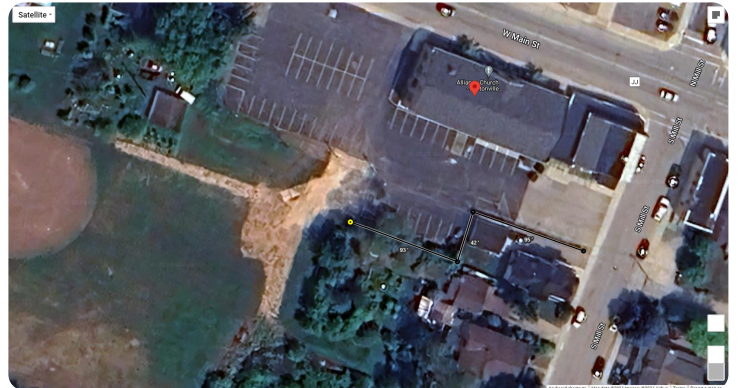
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Cancellation Policy:

The customer will have 3 days after signing to cancel their project and to receive a full refund. By signing you understand and agree with the enclosed contract. ?

Customer: _____ Date: _____

Salesman: _____ Date: _____



Grand Total	\$9,206.59
Down Payment	\$4,603.34
Amount Due	\$4,603.25

CUSTOMER CHECKLIST

BY SIGNING ABOVE, CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING BEFORE FENCE CAN BE INSTALLED. THIS CHECKLIST IS TO ASSIST CUSTOM FENCE, INC. IN UNDERSTANDING THE PROPERTY IN WHICH THE PROJECT WILL BE INSTALLED. IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT US AT 920-863-1146.

- ☒ Customer/Contractor's must check with your local building inspector to see if a building permit is required, and check on building codes for fence height restrictions, setbacks, etc. If the building permit is required, it is the customer's responsibility to obtain.
- ☒ Customer/Contractor's are responsible for clearing the path along all fence lines of any obstacles such as trees, bushes, rocks, boats, trailers, etc. There is to be 3' of clearance on each side of where the fence is to be placed.
- ☒ Customer/Contractor's understand some product is non returnable and will not be refunded on any unused material.
- ☒ Customer/Contractor's much let Custom Fence, INC know when moving forward, if they intend to have a pool or landscaping put in. Customer understands that grass/sod can NOT go in before the fence. If it does, and the customer requests the fence to be installed after, the customer agrees that Custom Fence, INC will NOT be responsible if fresh grass/sod gets damaged.
- ☒ Mark any sprinkler systems on the property. Marking only the sprinkler heads does not eliminate the risk of damage to any part of the sprinkler system.
- ☒ Custom Fence, INC is legally obligated to call in Digger's Hotline for the location where the fence is to be installed. It is YOUR responsibility to mark any personal lines not already marked by Digger's Hotline. This includes but is not limited to sprinkler systems, electrical lines, invisible dog fence, gas lines, pool systems, including water lines or other supporting systems. In addition any other personally installed electrical, gas, and plumbing not detected and documented within Digger's Hotline. Custom Fence, INC will not be responsible for lines or objects not marked by Digger's Hotline.
- ☒ All property markers must be identified. Custom Fence, INC will assist the customer/contractor in finding the property markers if necessary. However, the customer/contractor is responsible for the final fence line stakes prior to installation. Changes from the original estimate/order may affect price.
- ☒ Customer understands if applying for financing, they must get approved before signing the contract. Customer must have financing contract signed when Custom Fence, INC contract/checklist is signed. Customer CANNOT decide to finance the job after all necessary Custom Fence, INC moving forward documents are received. N/A FOR CONTRACTORS-FINANCING IS ONLY AVAILABLE TO RESIDENTIAL WORK.
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- ☒ I have read and fully understand Custom Fence's proposal/contract.
- ☒ I have read and agree with the color and style of material listed on the proposal.
- ☒ I understand that final payment is due upon completion.
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- ☒ I understand that by signing this checklist and making no notes about other work for Custom Fence, INC to coordinate with their schedule, I am currently ready for Custom Fence, INC to install my fence. Any holdups or rescheduling will be charged to me, and I understand I will be responsible for the fee. Again, if I intend to have a pool or landscaping put in, I will let Custom Fence, INC know the day of signing the contract.
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Email: info@customfenceus.com

Contact:

Village Of Hortonville
Aaron Steber
312 W Main St
Hortonville, WI 54944
(920) 378-3958
dpw@vohortonville.com

Job Location:

312 W Main St
Hortonville, WI 54944

Estimate Info:

Date: 05/02/2024
Estimate: Vlg Of Hortonville
(Aaron Steber)-cedar
Rep: Brandi Alberts
Job #949

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Customer: _____ Date: _____

Salesman: _____ Date: _____



Grand Total	\$11,780.84
Down Payment	\$5,890.42
Amount Due	\$5,890.42

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5335 HWY 29
Denmark, WI 54208
PHONE-920-863-1146 FAX-920-863-1148
WEBSITE:WWW.CUSTOMFENCEUS.COM
EMAIL:INFO@CUSTOMFENCEUS.COM

PROPOSAL/CONTRACT

Page 1 of 1
05/01/2024

Customer Information:

AARON@VILLAGE OF HORTONVILLE 4'FT SLASTS
312 W MAIN ST
HORTONVILLE, WI
920-378-3958

Job Information:

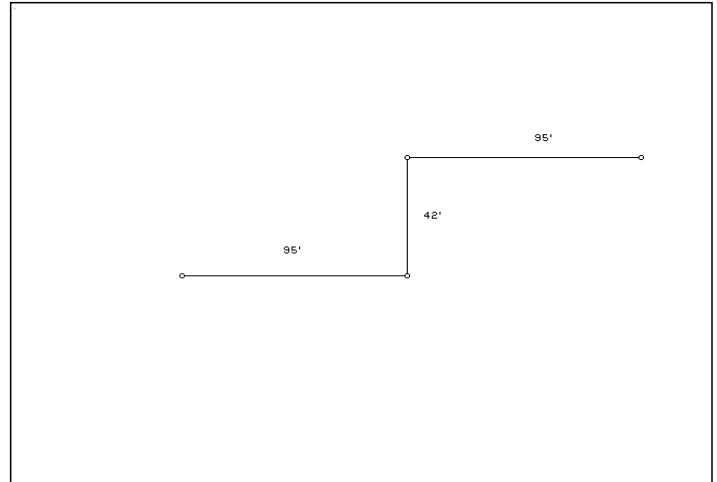
Notes:

SUPPLY AND INSTALL APPROX.232'FT OF 4'FT COMMERCIAL GRADE GALVANIZED CHAIN LINK FENCE WITH PRIVACY SLATS.ALL POSTS ARE STEEL DRIVEN.

\$8,598.28

SUPPLY AND INSTALL APPROX.232'FT OF 6'FT COMMERCIAL GRADE GALVANIZED CHAIN LINK FENCE WITH PRIVACY SLATS.ALL POSTS ARE STEEL DRIVEN.

\$10,904.00



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Approved & Accepted for Customer:

Contract Amount: \$ 8598.28

Down Payment: \$ 4299.14

Balance Due: \$ 4299.14

Customer

Date

Accepted for Custom Fence Inc.:

Salesperson

Date

DRAFT

Appendix B

Surveyed Wetland Boundary

Parcel ID #s 240024700, 240025300,
240024400 and 120039401
Section 35, T22N, R15E,
Village of Hortonville
Outagamie County, Wisconsin

For; Village of Hortonville

Legend

- Boring Locations
- Wetlands
- Wetland Line
- Approximate Site Location
- Waterways

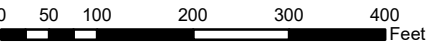
WETLAND AREA 1 = 7,160.47 S.F. (0.164 AC)
WETLAND AREA 2 = 100,115.00 S.F. (2.298 AC)
WETLAND AREA 3 = 1,037.34 S.F. (0.024 AC)
WETLAND AREA 4 = 2,247.40 S.F. (0.052 AC)
WETLAND AREA 5 = 1,364.42 S.F. (0.031 AC)
WETLAND AREA 6 = 1,863.52 S.F. (0.043 AC)
WETLAND AREA 7 = 5,443.11 S.F. (0.125 AC)

TOTAL SITE AREA = 1,198,560 S.F. (27.515 AC)

NOTE: AERIALS ARE NOT TIED TO COUNTY
COORDINATES AND PHOTOS ARE APPROXIMATE.
(FOR REFERENCE USE ONLY)



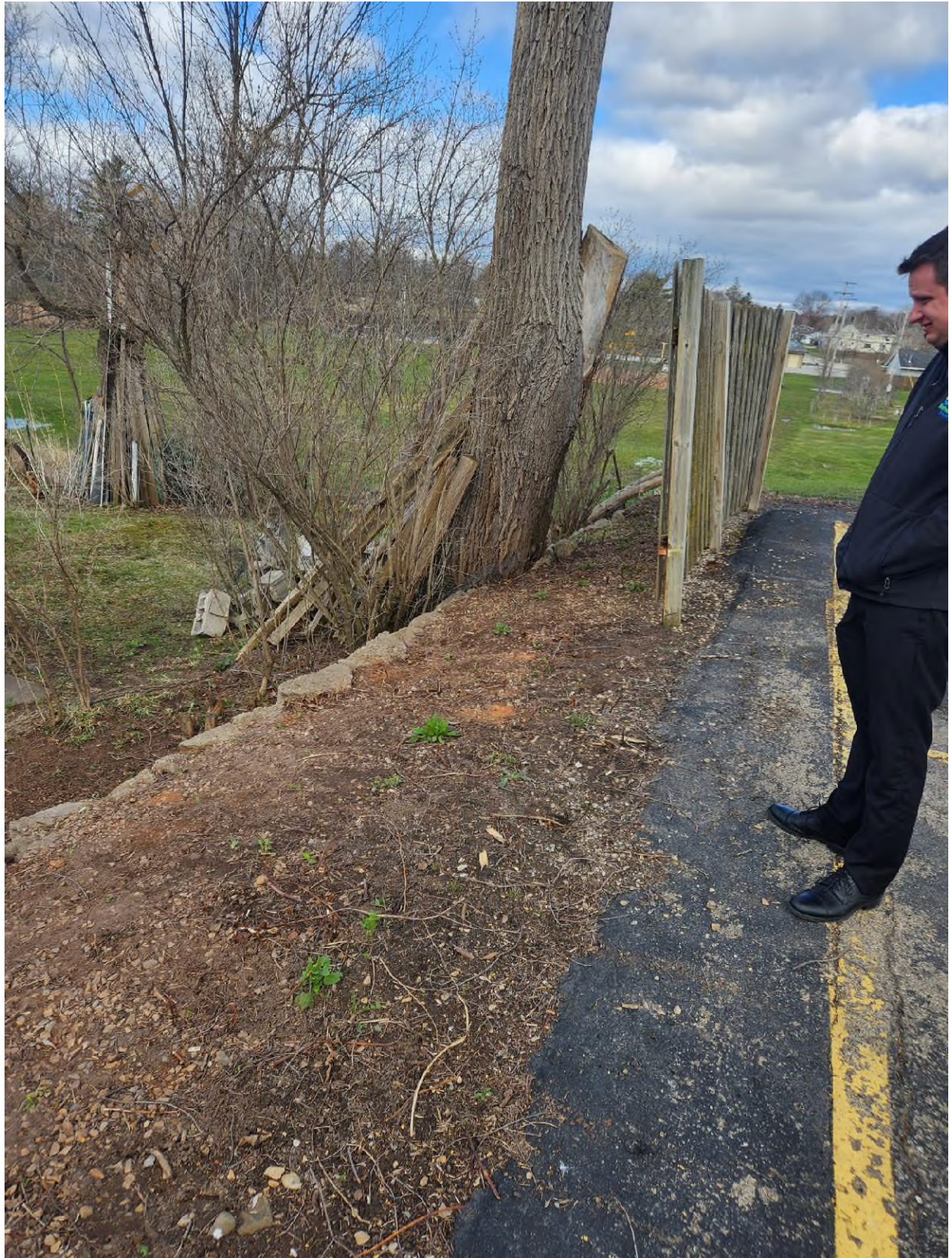
Scale 1" = 200'



This base map information was obtained from the Outagamie
County Land Information Department and is intended to be used
as a reference. They assume no liability for the accuracy of this
map or its use or misuse.

Martenson & Eisele, Inc.

1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381
Planning
Environmental
Surveying
Engineering
Architecture
arcgis11871002gis.mxd_05/31/2024





FOUNTAIN COURT DRAINAGE IMPROVEMENTS
VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN
PROBABLE ENGINEERS ESTIMATE

ITEM NO.	ITEM DESCRIPTION	EST. QTY	UNITS	UNIT PRICE	TOTAL PRICE
1	Mobilization, Bonds and Insurance	1	LS	\$ 4,000.00	\$ 4,000.00
2	Erosion and Sedimentation Controls	1	LS	\$ 2,000.00	\$ 2,000.00
3	Traffic Control	1	LS	\$ 1,000.00	\$ 1,000.00
4	Turf Restoration	550	SY	\$ 7.50	\$ 4,125.00
5	Asphalt Removal	1,450	SY	\$ 5.00	\$ 7,250.00
6	Asphalt Pavement, Binder Layer, 3 LT 58-28S (2.25-Inch)	200	TON	\$ 90.00	\$ 18,000.00
7	Asphalt Pavement, Surface Layer, 4 MT 58-28S (1.75-Inch)	160	TON	\$ 95.00	\$ 15,200.00
8	Dense Graded Base (As-Needed)	100	TON	\$ 20.00	\$ 2,000.00
9	Base Replacement (As-Needed)	100	CY	\$ 50.00	\$ 5,000.00
10	30-Inch Curb & Gutter Replacement	113	LF	\$ 15.00	\$ 1,695.00
11	Concrete Driveway	450	SF	\$ 10.00	\$ 4,500.00
12	Asphalt Driveway	60	SY	\$ 65.00	\$ 3,900.00
13	6-Inch Pipe Underdrain	450	LF	\$ 15.00	\$ 6,750.00
14	6-Inch HDPE Storm Lateral	35	LF	\$ 30.00	\$ 1,050.00
15	HDPE Tee, 6-Inch	5	EA	\$ 150.00	\$ 750.00
16	Storm Sewer Cleanout, Complete	2	EA	\$ 1,500.00	\$ 3,000.00
17	Connect to Existing Storm	2	EA	\$ 2,500.00	\$ 5,000.00
ESTIMATED CONSTRUCTION =					\$ 85,220.00
Contingency (10%) =					\$ 8,600.00
Design Engineering (8%) =					\$ 6,900.00
TOTAL ESTIMATED COST =					\$ 100,720.00

MEMORANDUM

To: Village of Hortonville

From: Cody Gorges, PE and Matt Looby, PE

Date: October 13, 2023

Project No.: 25-0346.00

Re: Lakeview Court Storm Water Drainage

Background

The Village of Hortonville is looking to reduce flooding in a 10-foot-wide storm water drainage easement located between Lake Shore Drive and Lakeview Avenue within the Village. After rainfall events, standing water is present in the drainage easement and the yards of residential properties for an extended period until it can infiltrate into the ground. An evaluation has been completed to look at possible improvements to the storm water conveyance system. Presently, storm water from Lakeview Court flows from a catch basin into the drainage easement. Water then flows south and into a culvert pipe near 229 Lake Shore Drive, which outfalls into Black Otter Lake at the Black Otter - Shadows Boat Launch.

Hydrologic and Hydraulic Modeling

A site visit was taken on August 18, 2023, to perform a topographic survey and to take photographs of the site conditions. See Appendix A for the site photos. The survey was completed along an approximately 1300-foot section of the easement.

Based on the available contour mapping and aerial imagery from the Outagamie County GIS website, as-built drawings for Lakeview Court and Lake Shore Drive, storm sewer mapping from the Village of Hortonville, and the survey information, an approximately 6.1-acre drainage basin was delineated for the outfall into Black Otter Lake, just north of 236 Lake Shore Drive. The drainage basin contains land uses of residential, grass, woods, pavement, and concrete. See Appendix B for a map of the drainage basin.

The basin was then analyzed using the Rational Method, which is a WisDOT approved runoff method to determine the design discharge of a watershed. Drainage basin characteristics such as drainage basin area, land use, soils and slopes were used to develop a runoff coefficient and a time of concentration (T_c). These characteristics, along with a storm rainfall intensity, were used to develop a peak runoff flow value for the 10-year design storm event. See Table 1 below for the 10-year design peak flows.

Table 1: 10-Year Design Peak Flows

Location	Cumulative Drainage Area, Acres	Peak Flow, CFS
Lakeview Court	0.80	3.20
Drainage Easement	5.50	6.10
Lake Shore Drive	6.10	7.00

Existing Conditions

Based on the topographic survey information and televising information provided by the Village, the existing storm sewer pipes range in size from 12" to 15" and contain slopes ranging from 0.47% to 0.64%. The storm water flows from Lakeview Court into a catch basin and proceeds east through a 12" pipe where it outfalls into a 10-foot-wide drainage easement. Once the storm water reaches the drainage easement, it is conveyed to the south through a vegetated ditch. The storm water reaches a 15" culvert at the southern extents of the drainage easement, where it is then conveyed to the east into a manhole located west of the boat launch, adjacent to Lake Shore Drive. At the manhole, drainage from a portion of Lake Shore Drive is added to the basin. The storm water then goes from the manhole to its 15" outfall into Black Otter Lake.

The storm sewer pipe sections between the catch basin on Lakeview Court and its outfall, and from the culvert inlet on the southern extents of the easement to the manhole located west of the boat launch, both contain sections of Polyvinyl Chloride (PVC) and Reinforced Concrete Pipe (RCP). Analyzing the RCP conditions, the pipes are undersized and are unable to convey a 10-year design storm under a full flow condition. The televising reports also noted obstructions, roots present and sediment within the storm pipes, which restricts the flow through the pipes.

Property owners along the easement have also contributed to the drainage issues along the easement through projects that have been completed. The following is a list and description of alterations found from historical aerial photography and the topographic survey:

- From aerial photography, fill was brought in along the easement on Parcel 240059000 (236 Lakeview Avenue), likely altering the drainage. During the grading operation, depending on the construction techniques, sediment from the imported soil was possibly added to the ditch.
- Adjacent to Parcel 240059200 (240 Lakeview Avenue), a fence was placed in the drainage easement. In this location, there is a 0.3' low spot within the limits of the fence.
- A wooden retaining wall was built adjacent to Parcels 240058900, 240058600 and 240058700 (234 Lakeview Avenue, 227 Lake Shore Drive and 229 Lake Shore Drive, respectively) near the outlet of the easement, which restricts the flow into the existing 15" culvert.
- Vegetative buffers (various vegetation and trees) have been planted along the drainage easement, obstructing the flow of water.

Based on the gathered topographic survey information, the vertical profile in the drainage easement is not uniform. There are several high and low points along the easement and as a result, water ponds in the low areas and is unable to drain until it can infiltrate into the soil or until it builds up enough to flow over the high areas.

Proposed Conceptual Improvements

Proposed Conceptual Improvement #1- Partial Ditch Grading and Clearing, Remove Retaining Wall

This improvement consists of clearing vegetation and grading areas of the drainage easement located outside of the large willow, maple, and cottonwood trees. Grading a uniform slope to these locations from the Lakeview Court storm sewer outfall and Lake Shore Drive culvert would fill in low areas, remove high spots and minimize ponding. In addition, the removal of the existing retaining wall and associated grading would improve the drainage efficiency into the Lake Shore Drive Culvert. This option is the least invasive from a disturbance standpoint and the most cost-effective way to improve some of the drainage conditions. See Appendix C - Figure No. 1 for a plan sheet detailing the proposed conceptual improvement.

This option does present the following drawbacks:

- Does not improve the drainage conditions in the Lakeview Court storm sewer outfall pipe and the Lake Shore Drive culvert pipe due to obstructions.
- Does not improve the condition of the vegetated ditch around the large willow, maple, and cottonwood trees. This area will continue to impede the storm water flowing south in the easement.
- Vegetative buffers would be lost between parcels.

Due to the small width of the drainage easement, a temporary limited easement would be required for equipment accessibility, grading and vegetation removal.

Approximate Cost Estimate: \$37,000.

Proposed Conceptual Improvement #2- Ditch Grading and Clearing

This option would consist of clearing vegetation and trees, and grading areas along the easement from the Lakeview Court storm sewer outfall to the Lake Shore Drive culvert. This is the most intrusive option, as it would likely require the removal of a 20" Maple tree, 48" Maple tree, 60" Willow tree, smaller trees, brush, vegetation, and items property owners have placed within the easement. The grading could also require the removal of a 42" Cottonwood tree, depending on the grading limits determined during design. The trees will need to be removed to adjust the elevation profile and for equipment accessibility along the easement. The proposed conceptual improvements are included in Appendix C - Figure No. 2.

By removing the existing obstructions, vegetation, and trees, storm water will be able to flow more efficiently through the ditch. In addition, the elevation profile would have a uniform slope, which will minimize the ponding.

This option does present the following drawbacks:

- Does not improve the drainage conditions in the Lakeview Court storm sewer outfall pipe and the Lake Shore Drive culvert pipe due to obstructions.
- Large, mature trees would be removed for the benefit of drainage.
- Vegetative buffers would be lost between parcels.

Due to the small width of the drainage easement, a temporary limited easement would be required for equipment accessibility, grading and vegetation removal.

Approximate Cost Estimate: \$75,000

Proposed Conceptual Improvement #3- Replace Storm Sewer

In existing conditions, roots, sediment, and other obstructions restrict the flow through the existing Lakeview Court storm sewer outfall pipe and Lake Shore Drive culvert pipe. The pipes are at the end of their lifespan and are in need of replacement. Replacing the pipes would provide structurally sound and reliable pipes, free from obstructions, and a uniform pipe type and slope throughout each run. Furthermore, the pipe size would be increased so that the storm water conveyance system could convey a 10-year design storm from Lakeview Court to Black Otter Lake.

This option would require disturbance and associated restoration of a portion of Lake Shore Drive and the Lake Shore Drive Boat Launch. For this option, the storm sewer location was shifted north due to an existing residence (229 Lake Shore Drive) located inside the drainage easement and an existing sanitary manhole within the projection of the easement on Lake Shore Drive. The proposed route is shown in Appendix C - Figure No. 3. By shifting the storm sewer location, it eliminates the need to deflect the storm sewer pipe or the need for bends to avoid the existing sanitary manhole.

To minimize the ponding and flooding along the easement, using a pipe to convey the storm water from Lakeview Court to the culvert pipe at the south end of the easement was considered. However, this option was found not to be feasible due to the existing grades, slopes, and orientation of the drainage easement. The existing grades and slopes within the easement do not allow the cover required to place an adequately sized pipe to convey the storm water and maintain a vegetated ditch within the easement.

Approximate Cost Estimate: \$95,000

See Appendix D for detailed cost breakdown of the proposed conceptual improvements.

Conclusion

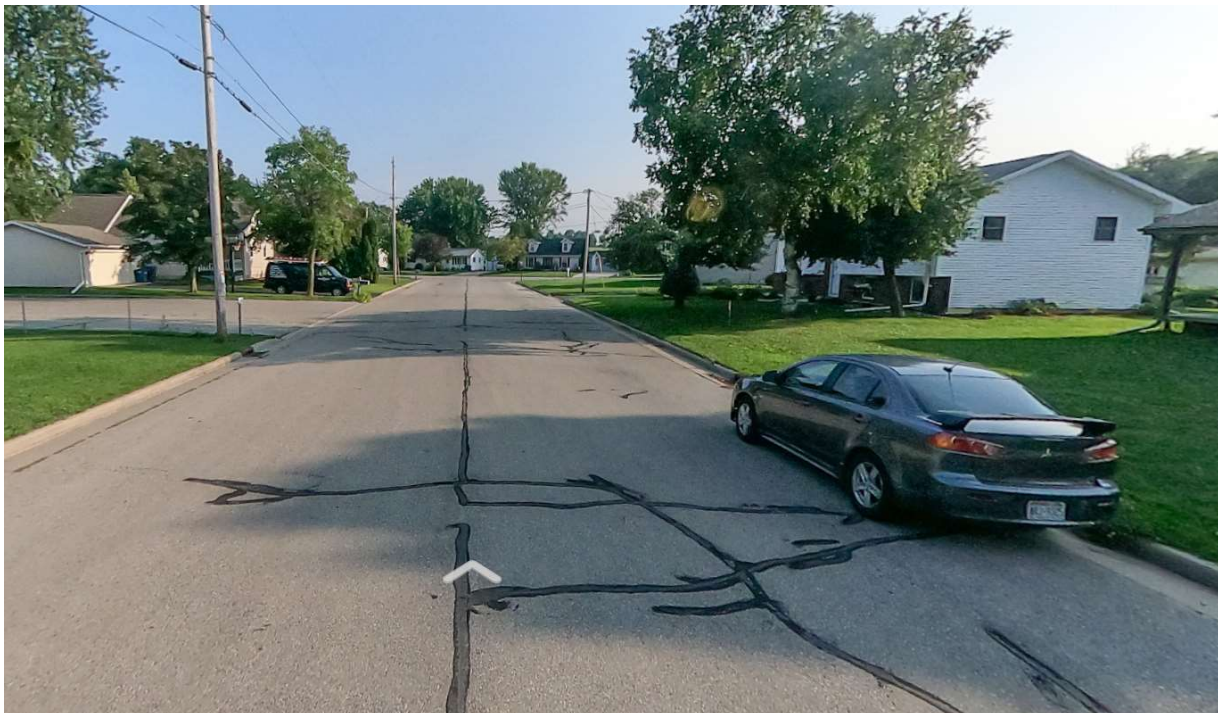
The conceptual improvements above would provide drainage improvements in the drainage easement and for the adjacent residential properties. Either Improvement #1 and #2 can be selected and can be combined with Improvement #3. While any of the three options will improve the drainage, it is the opinion of Ayres Associates that Improvement #2 and Improvement #3 be selected to resolve the drainage issues in the storm water conveyance system from Lakeview Court to Black Otter Lake.

APPENDIX A

Black Otter Lake - Shadow Boat Launch Storm Outfall - Looking West



Lakeshore Drive - North of Boat Launch- Looking South



Drainage Easement- Inlet Pipe Near 229 Lakeshore Drive – Looking South



Drainage Easement Near 236 Lakeview Avenue- Looking North



Drainage Easement Near 223 Lakeshore Drive- Looking South



Drainage Easement Near 221 Lakeshore Drive- Looking North



Drainage Easement Near Lakeview Court Outfall- Looking East



Drainage Easement Near 219 Lakeshore Drive- Looking South





APPENDIX B



Lakeview Court
Drainage Basin

LAKEVIEW COURT

LAKESHORE DRIVE

LAKEVIEW AVENUE

Lakeshore Drive Drainage Easement
Drainage Basin

Lakeshore Drive Inlet
Drainage Basin

DR BY	MVL
CHK BY	CRS
DATE	OCTOBER 2023

LAKEVIEW COURT STORM DRAINAGE
VILLAGE OF HORTONVILLE

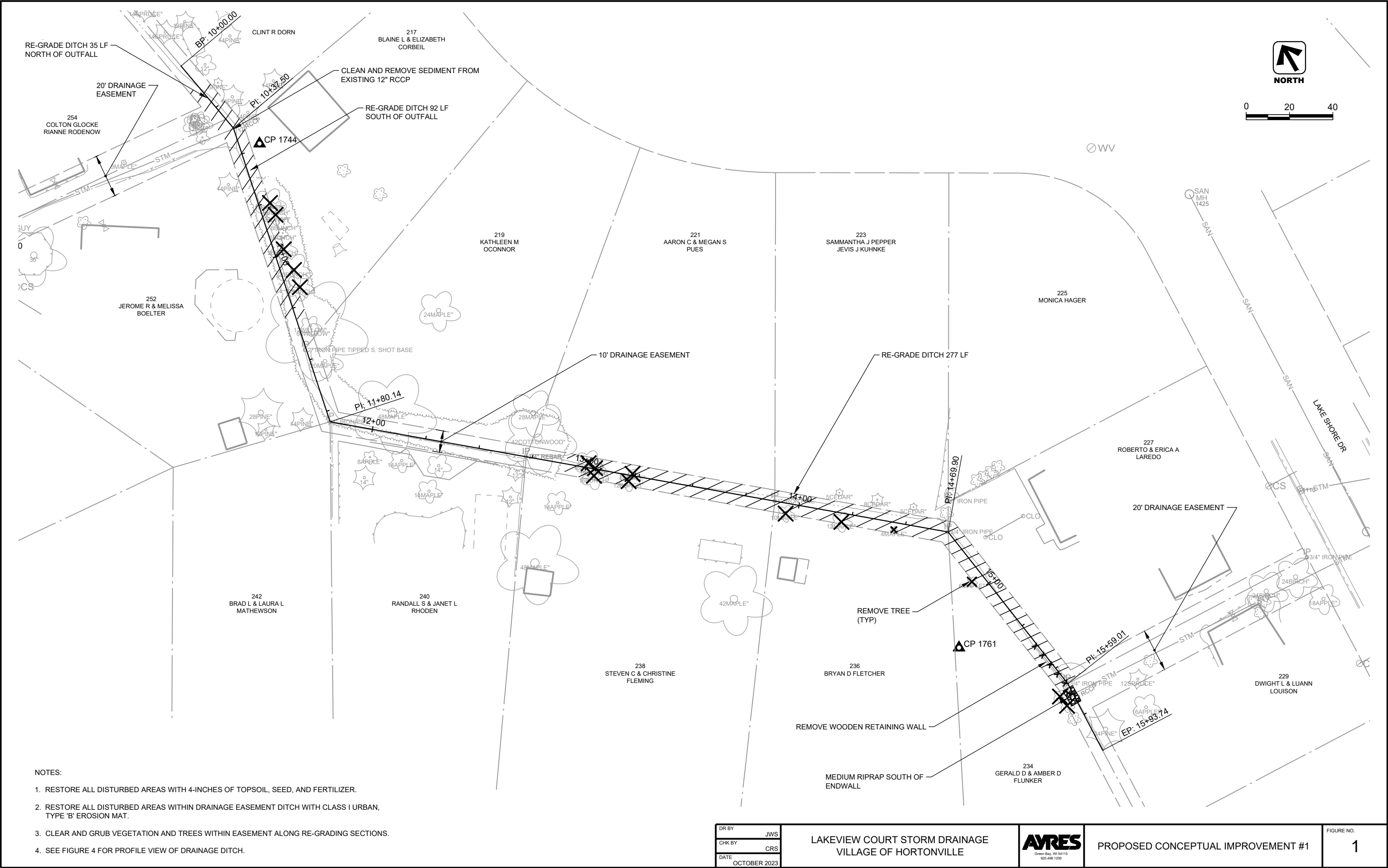


EXISTING DRAINAGE BASINS

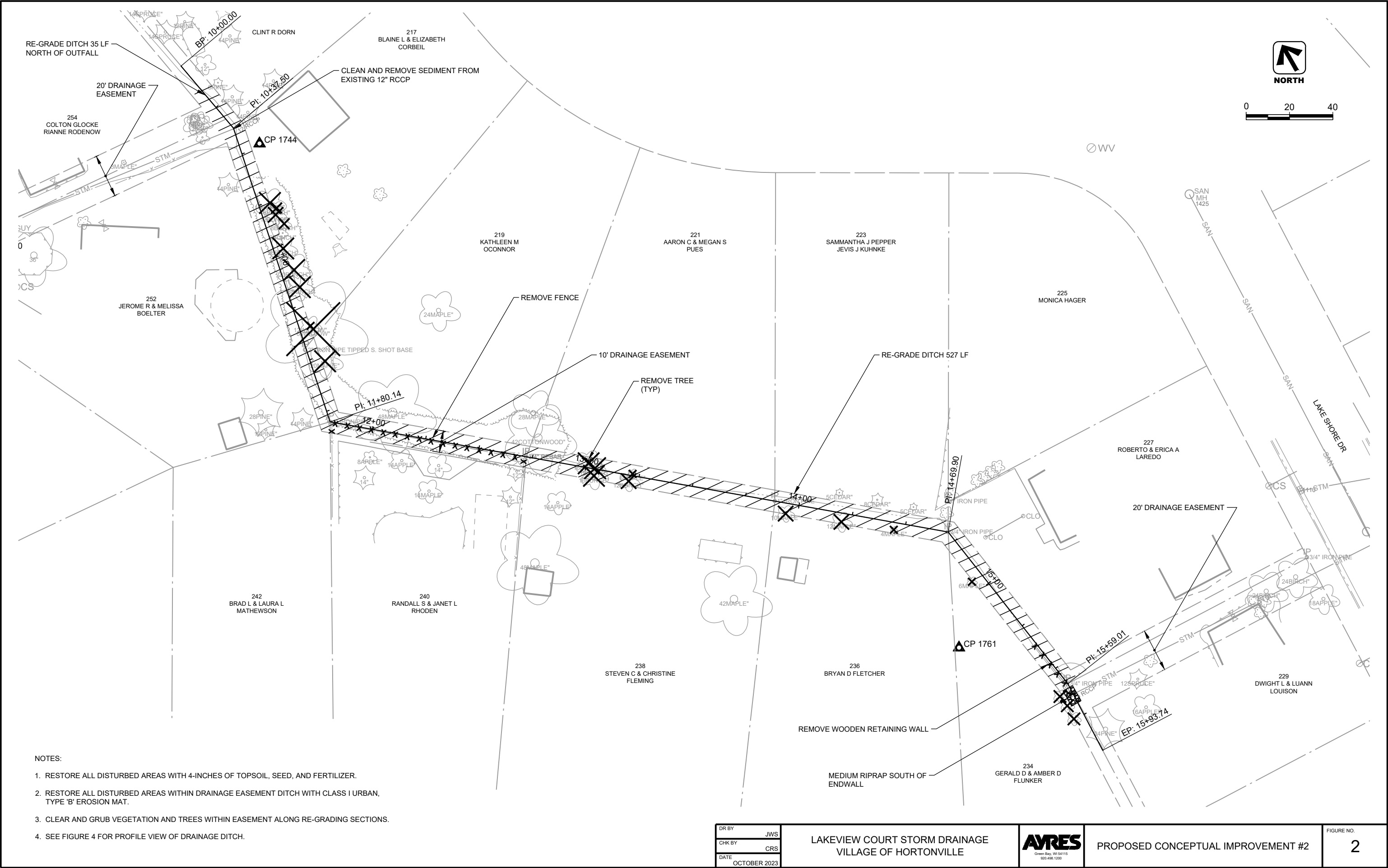
FIGURE NO.
1



APPENDIX C



- NOTES:
1. RESTORE ALL DISTURBED AREAS WITH 4-INCHES OF TOPSOIL, SEED, AND FERTILIZER.
 2. RESTORE ALL DISTURBED AREAS WITHIN DRAINAGE EASEMENT DITCH WITH CLASS I URBAN, TYPE 'B' EROSION MAT.
 3. CLEAR AND GRUB VEGETATION AND TREES WITHIN EASEMENT ALONG RE-GRADING SECTIONS.
 4. SEE FIGURE 4 FOR PROFILE VIEW OF DRAINAGE DITCH.



- NOTES:
1. RESTORE ALL DISTURBED AREAS WITH 4-INCHES OF TOPSOIL, SEED, AND FERTILIZER.
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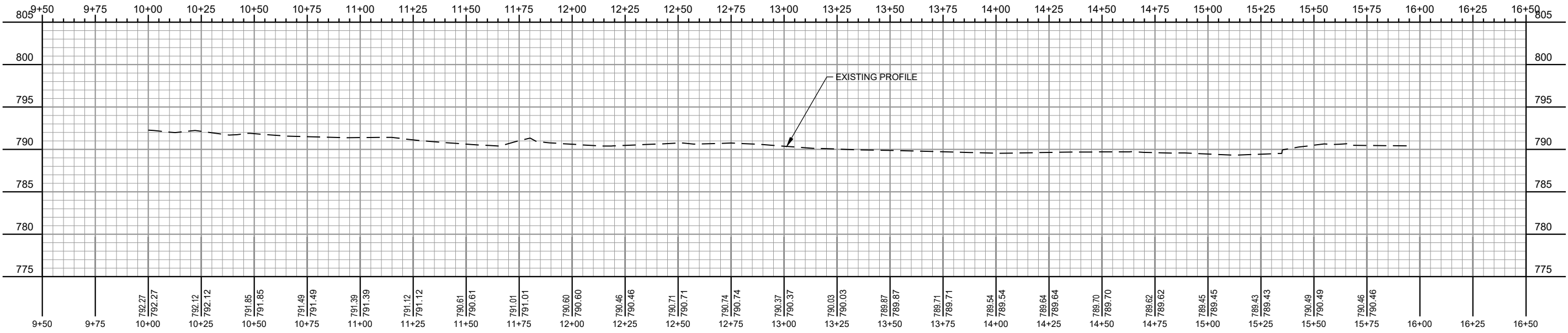
DR BY	JWS
CHK BY	CRS
DATE	OCTOBER 2023

LAKEVIEW COURT STORM DRAINAGE
VILLAGE OF HORTONVILLE



PROPOSED CONCEPTUAL IMPROVEMENT #2

FIGURE NO.
2





APPENDIX D



PUBLIC WORKS IMPROVEMENT
OPINION OF PROBABLE CONSTRUCTION COST

Project Name: Lakeview Court Storm Drainage

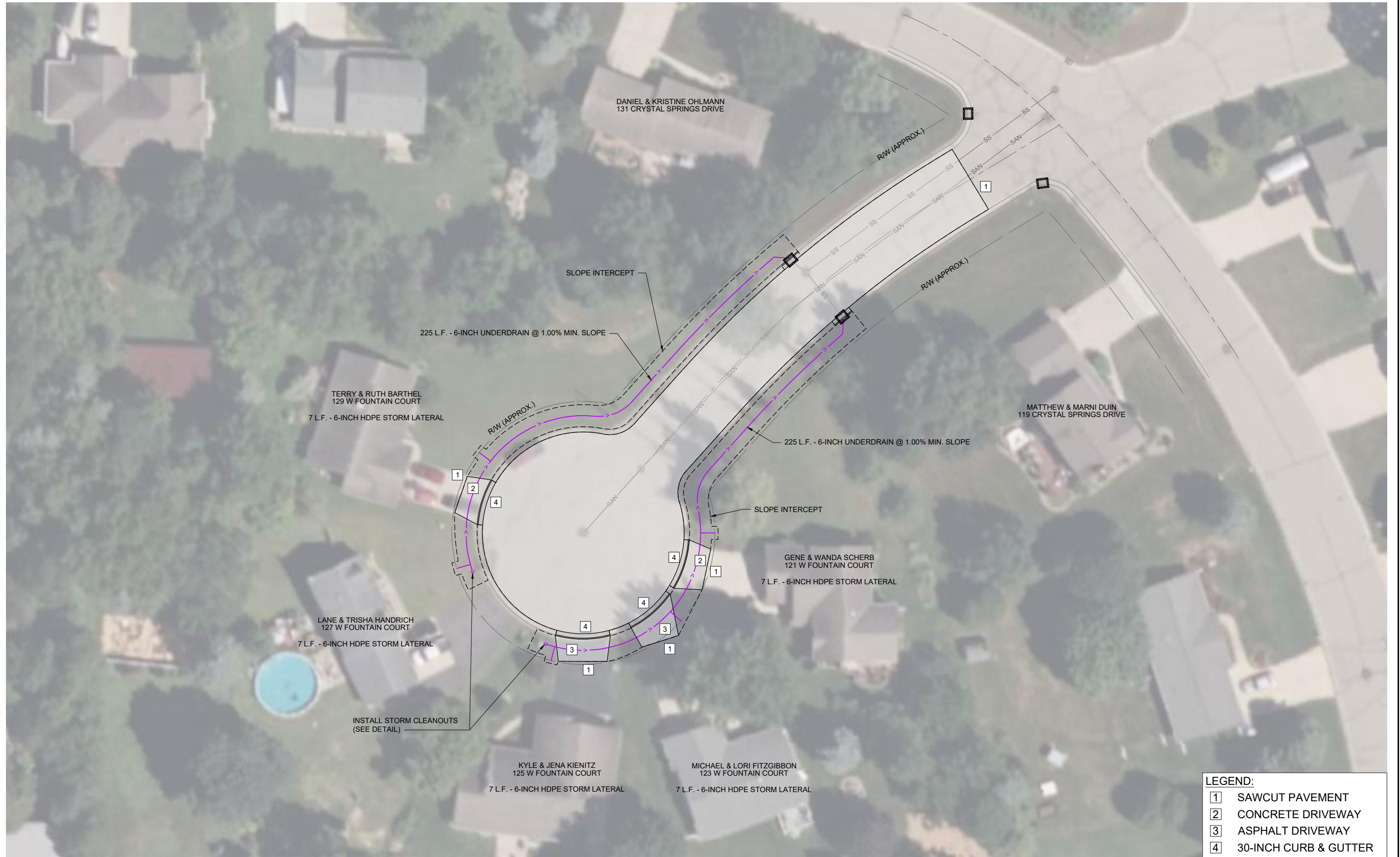
Date: 13-Oct-23

Estimator: MVL

Total Estimate: _____

Item No.	Description	Units	Approximate Quantity	Unit Price	Total Price
PROPOSED CONCEPTUAL IMPROVEMENT #1					
	Mobilization	LS	1	\$5,000.00	\$5,000.00
	Erosion Control	LS	1	\$2,000.00	\$2,000.00
	Site Preparation	LS	1	\$7,500.00	\$7,500.00
	Ditch Grading	LF	415	\$25.00	\$10,375.00
	Erosion Mat, Class I Urban, Type B	SY	925	\$5.00	\$4,625.00
	Site Restoration	LS	1	\$7,500.00	\$7,500.00
TOTAL ESTIMATED PROPOSED CONCEPTUAL IMPROVEMENT #1 COST					<u>\$37,000.00</u>
PROPOSED CONCEPTUAL IMPROVEMENT #2					
	Mobilization	LS	1	\$6,500.00	\$6,500.00
	Erosion Control	LS	1	\$2,500.00	\$2,500.00
	Site Preparation	LS	1	\$12,500.00	\$12,500.00
	Tree Removal	LS	1	\$20,000.00	\$20,000.00
	Ditch Grading	LF	575	\$25.00	\$14,375.00
	Erosion Mat Class I Urban, Type B	SY	1,280	\$5.00	\$6,400.00
	Site Restoration	LS	1	\$12,000.00	\$12,000.00
TOTAL ESTIMATED PROPOSED CONCEPTUAL IMPROVEMENT #2 COST					<u>\$74,275.00</u>
PROPOSED CONCEPTUAL IMPROVEMENT #3					
	Mobilization	LS	1	\$8,000.00	\$8,000.00
	Erosion Control	LS	1	\$1,500.00	\$1,500.00
	Site Preparation	LS	1	\$7,000.00	\$7,000.00
	15" RCP Storm Sewer	LF	132	\$90.00	\$11,880.00
	18" RCP Storm Sewer	LF	302	\$105.00	\$31,710.00
	15" RCP Endwall	EA	1	\$1,200.00	\$1,200.00
	18" RCP Endwall	EA	2	\$1,300.00	\$2,600.00
	4-Foot Diameter Manhole	VF	2.5	\$1,250.00	\$3,162.50
	Storm Manhole Casting	EA	1	\$750.00	\$750.00
	Connect to Existing Catch Basin or Storm Sewer	EA	2	\$1,000.00	\$2,000.00
	Site Restoration	LS	1	\$25,000.00	\$25,000.00
TOTAL ESTIMATED PROPOSED CONCEPTUAL IMPROVEMENT #3 COST					<u>\$94,802.50</u>

NOTES:



LEGEND:	
1	SAWCUT PAVEMENT
2	CONCRETE DRIVEWAY
3	ASPHALT DRIVEWAY
4	30-INCH CURB & GUTTER

PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
	Init	-	-	-	-
	DESIGNED BY:	Init	-	-	-
	CHECKED BY:	Init	-	-	-
PLOT DATE: 5/9/2023 9:33 AM, G:\07\07807\07807027\CADD\C3D\07807027 Design.dwg					

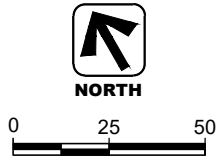
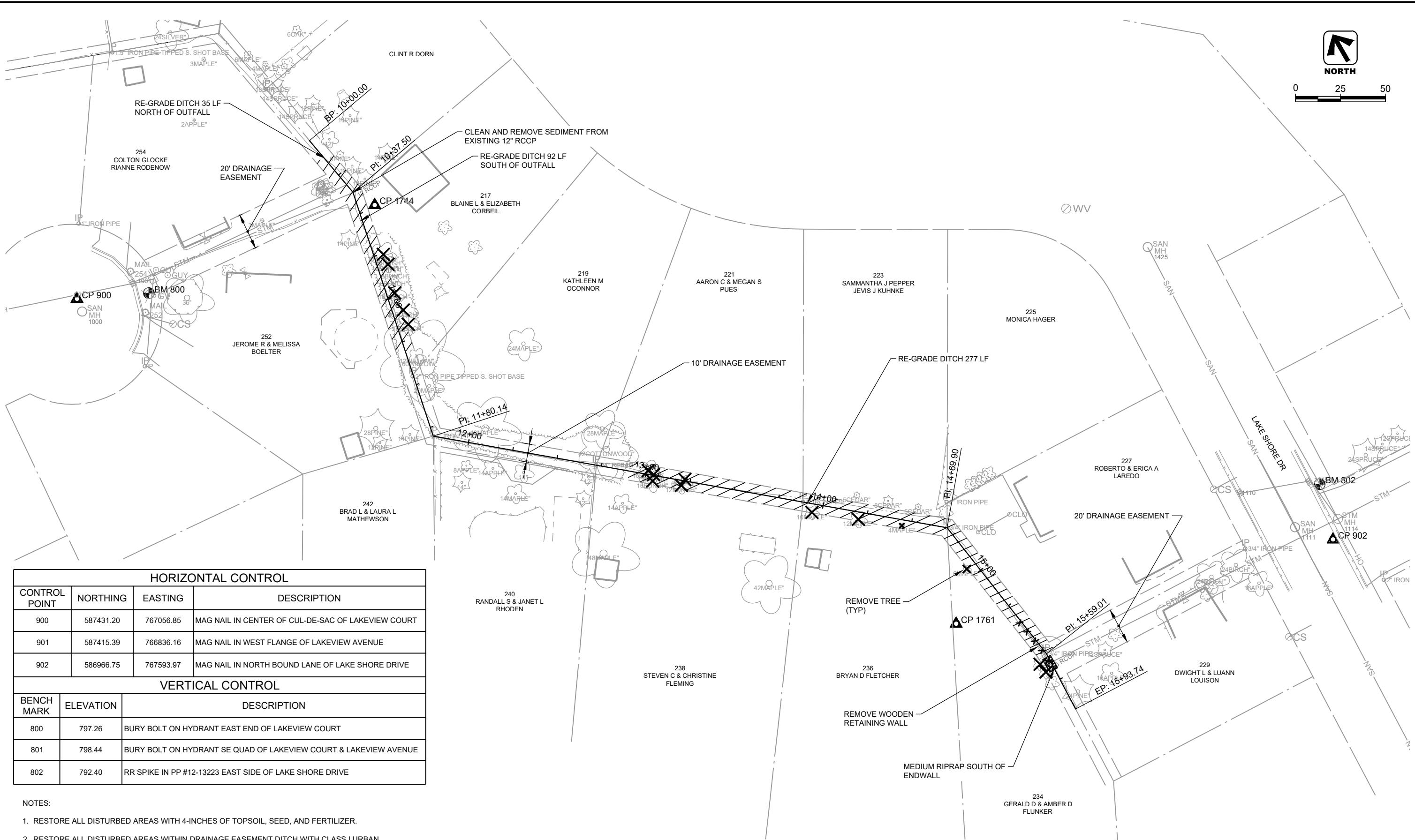


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FOUNTAIN COURT DRAINAGE IMPROVEMENTS
VILLAGE OF HORTONVILLE
OUTAGAMIE COUNTY, WISCONSIN

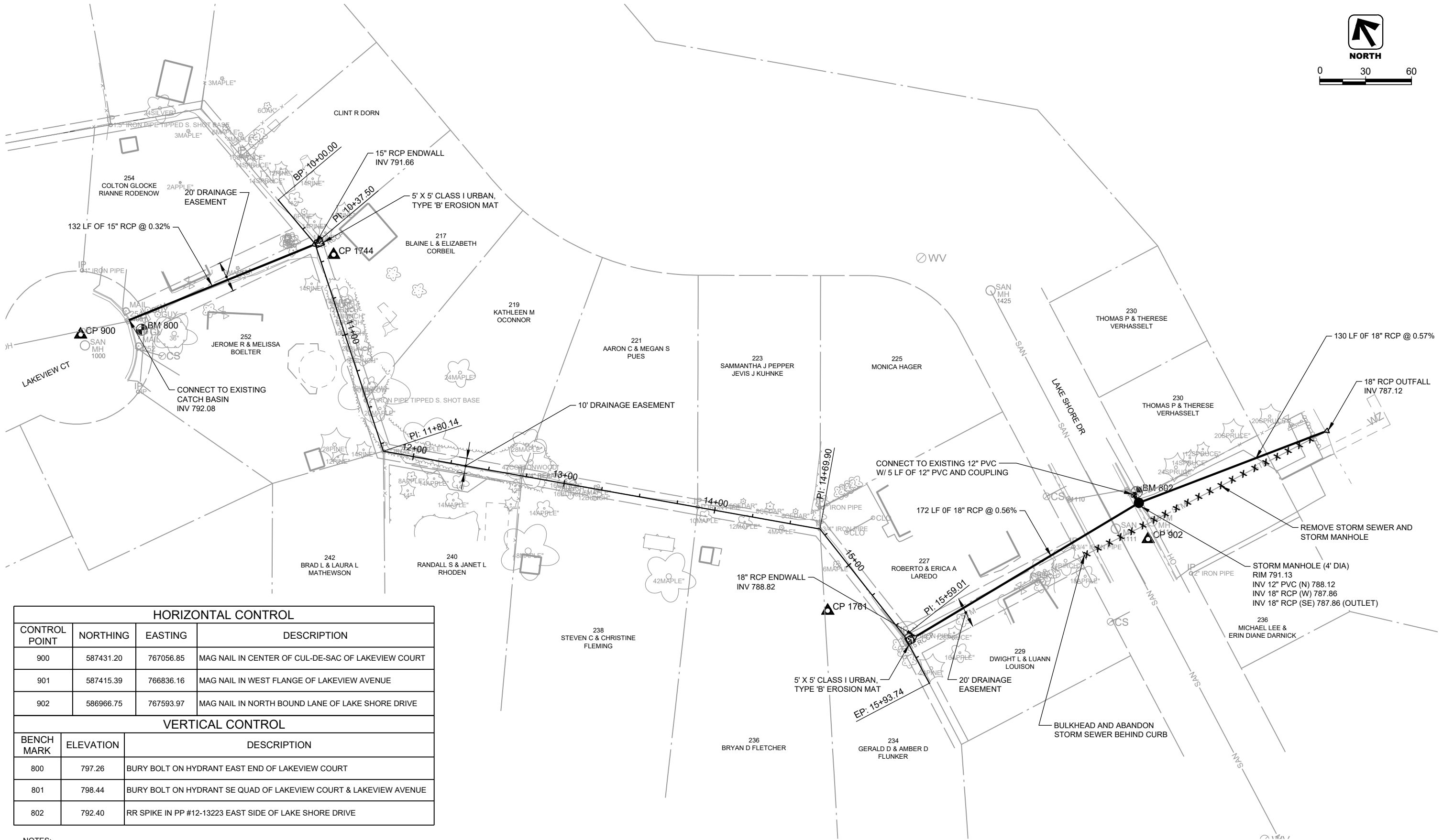
FOUNTAIN COURT DRAINAGE IMPROVEMENT PLAN

PROJECT NO:
07807027
SHEET
P 1



HORIZONTAL CONTROL			
CONTROL POINT	NORTHING	EASTING	DESCRIPTION
900	587431.20	767056.85	MAG NAIL IN CENTER OF CUL-DE-SAC OF LAKEVIEW COURT
901	587415.39	766836.16	MAG NAIL IN WEST FLANGE OF LAKEVIEW AVENUE
902	586966.75	767593.97	MAG NAIL IN NORTH BOUND LANE OF LAKE SHORE DRIVE
VERTICAL CONTROL			
BENCH MARK	ELEVATION	DESCRIPTION	
800	797.26	BURY BOLT ON HYDRANT EAST END OF LAKEVIEW COURT	
801	798.44	BURY BOLT ON HYDRANT SE QUAD OF LAKEVIEW COURT & LAKEVIEW AVENUE	
802	792.40	RR SPIKE IN PP #12-13223 EAST SIDE OF LAKE SHORE DRIVE	

- NOTES:
- RESTORE ALL DISTURBED AREAS WITH 4-INCHES OF TOPSOIL, SEED, AND FERTILIZER.
 - RESTORE ALL DISTURBED AREAS WITHIN DRAINAGE EASEMENT DITCH WITH CLASS I URBAN, TYPE 'B' EROSION MAT.
 - CLEAR AND GRUB VEGETATION AND TREES WITHIN EASEMENT ALONG RE-GRADING SECTIONS.
 - SEE FIGURE 4 FOR PROFILE VIEW OF DRAINAGE DITCH.



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NOTES:

- RESTORE ALL DISTURBED AREAS WITH 4-INCHES OF TOPSOIL, SEED, FERTILIZER AND MULCH.
- SEE FIGURE 4 FOR PROFILE VIEW OF DRAINAGE DITCH.

DR BY	JWS
CHK BY	CRS
DATE	OCTOBER 2023

LAKEVIEW COURT STORM DRAINAGE
VILLAGE OF HORTONVILLE



PROPOSED CONCEPTUAL IMPROVEMENT #3

FIGURE NO.

3

