

Erosion Control - Water & Sediment Control Basin

Location: Sect. 28 Milaca Township



South end of the field looking northeast

Project Summary

John is looking to control the reoccurring gully erosion on one of his fields. There is a history of erosion across the field to north west and to the east and south. Most years the gullies have been farmed through with nothing done to stabilize them. The project includes 2 separate sets of water and sediment basins that include 3 total basins, 4 inlets and over 4,200' of tile to control erosion over 82 acres. Pollution reductions include 215.6 lbs. of nitrogen, 57.9 lbs. of phosphorus and 10.2 tons of TSS. The plan is install the project once the corn comes off this fall. John received 4 bids from the ranging from \$45,000 to \$140,000.



Top of watershed looking south towards the Rum River.

Project Status:

Initiated: 9/14/2022

Contract approved:

Completed:

Funding:

Total cost: \$45,374.20

Implementation assistance:

\$34,030.65 (75%)

FY23 WBIF Rum River Watershed Partnership

Landowner match: \$11,343.55

Resource Concern:

Erosion Control

Cooperators:

Mille Lacs Soil and Water Conservation District (SWCD)

Funder: Rum River Watershed Partnership, Watershed Based Implementation Funding

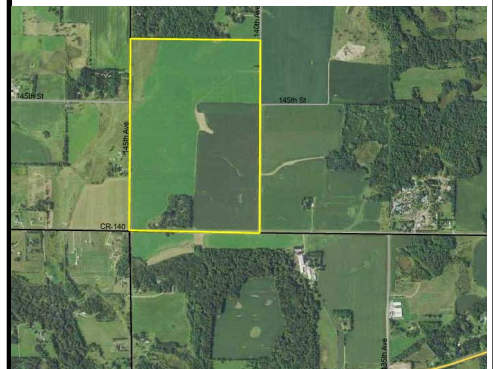
Engineering: West Central Technical Service Area

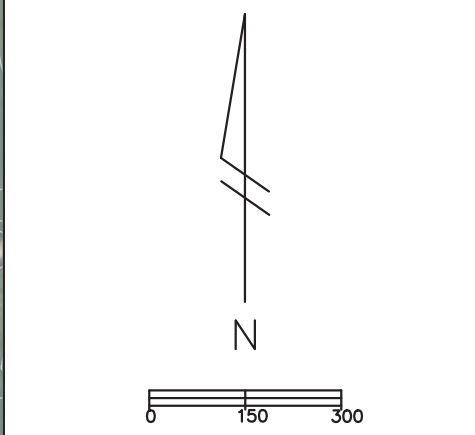
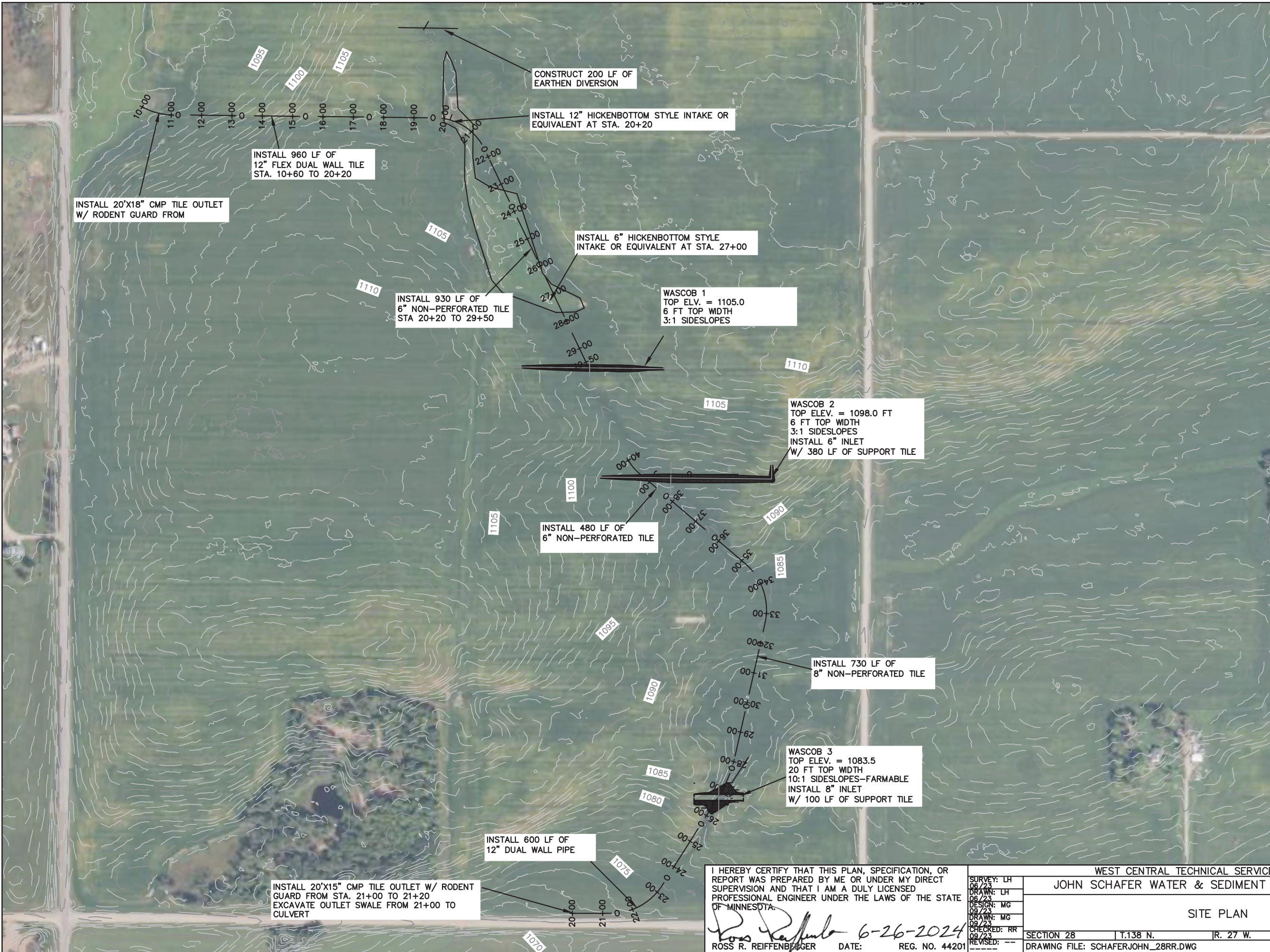
Contractor:

Geise Excavating Inc.

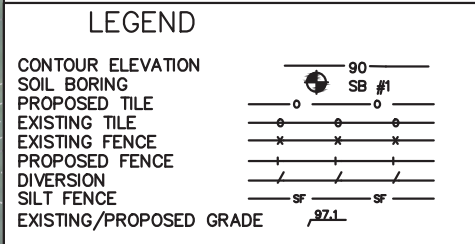
Location:

Rum River Watershed





- CONSTRUCTION NOTES:**
- PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EROSION DURING CONSTRUCTION & EARTHWORK ACTIVITIES.
 - TILE LINES ARE OFFSET 15-20 FEET FROM CENTERLINE DRAW.
 - SALVAGE & RESPREAD TOPSOIL FROM CONSTRUCTION AREAS PRIOR TO PLACING ANY FILL.
 - GRADING & SHAPING ALONG TOE SLOPE MAY BE REQUIRED TO PROVIDE POSITIVE DRAINAGE TO INTAKE.
 - EXISTING TILE LINES SHOULD BE LOCATED PRIOR TO CONSTRUCTION TO AVOID DAMAGE.
 - SWCD/TSA IS NOT RESPONSIBLE FOR LOCATING OR DAMAGE TO EXISTING TILE LINES.
 - TILE OUTLETS INTO ROCK STILLING BASIN.
 - SEED, FERTILIZE, & MULCH WATER & SEDIMENT CONTROL BASIN.
 - EXCAVATION IN OR NEAR RIGHT OF WAY TO BE APPROVED BY HIGHWAY AUTHORITY. UTILITIES ARE LOCATED NEAR CONSTRUCTION LIMITS
 - WETLANDS LOCATED WITHIN CONSTRUCTION LIMITS. WETLAND BOUNDARIES SHALL BE FLAGGED PRIOR TO CONSTRUCTION.

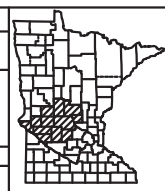


INSTALL 20'X15" CMP TILE OUTLET W/ RODENT GUARD FROM STA. 21+00 TO 21+20
EXCAVATE OUTLET SWALE FROM 21+00 TO CULVERT

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Ross Reiffenberger 6-26-2024
ROSS R. REIFFENBERGER DATE: REG. NO. 44201


WEST CENTRAL TECHNICAL SERVICE AREA (WCTSA)			
JOHN SCHAFER WATER & SEDIMENT CONTROL BASINS			
SITE PLAN			
SECTION 28	T.136 N.	R. 27 W.	MILLE LACS COUNTY
DRAWING FILE: SCHAFERJOHN_28RR.DWG		PLAN SHEET 2 OF 7	





 Townships
 Sections

1 inch = 1,000 feet 1:12,000

0 350 700 1,400 Feet




John Schafer Erosion Control

Bids

Geise Excavating Inc.	\$	45,374.20
Dozer Excavating	\$	50,371.30
TS Dirtworks	\$	79,351.00

Low Bid \$ 45,374.20

75% Max Cost-share \$ 34,030.65

25% Minimum Owner Share \$ 11,343.55

Federal Payment \$ -

FY23 Rum River WBIF Cost-share Request \$ 34,030.65

Engineers Cost Estimate \$ 75,410.50



















PERCENT BASED CONSERVATION PRACTICE ASSISTANCE CONTRACT

General Information

Organization Mille Lacs SWCD	Contract Number RWBIF23-3265-RuralBMP-1	Amendment <input type="checkbox"/> Date(s):	Canceled <input type="checkbox"/> Date:
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*If contract amended, attach amendment form(s) to this contract.

Applicant

Land Occupier Name John Schafer	Address 19140 75 th St NE	City/State Oak Park MN	Zip code 56357
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* If a group contract, this must be filed and signed by the group spokesperson as designated in the group agreement and the group agreement attached to this form.

Conservation Practice Location

Township Name Milaca	Township 38N	Range 27W	Section 28	1/4,1/4
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Contract Information

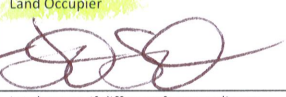
I (we), the undersigned, do hereby request assistance to help defray the cost of installing the following practice(s) listed on the second page of this contract. It is understood that:

1. The land occupier is responsible for full establishment, operation, and maintenance of practice(s) and upland treatment criteria applied under this program to ensure that the conservation objectives are met and the effective life, a **minimum of 10 years**, is achieved. The specific operation and maintenance requirements for the conservation practice(s) listed are described in the Operation and Maintenance Plan prepared for this contract by the technical assistance provider.
2. Should the land occupier fail to maintain the practice(s) during the effective life, the land occupier is liable to the organization for up to **150%** of the amount of financial assistance received to install and establish the practice(s) unless the failure was caused by reasons beyond the land occupier's control, or if conservation practices are applied at the land occupier's expense that provide equivalent protection of the soil and water resources.
3. If title to this land is transferred to another party before expiration of the aforementioned effective life, it shall be the responsibility of the landowner who signed this contract to advise the new owner that this contract is in force and to notify other parties to the contract of the transfer.
4. Practice(s) must be planned and installed in accordance with technical standards and specifications of the: **NRCS FOTG**
5. Increases in the practice(s) units or cost must be approved by the organization through amendment of this contract as a condition to increase the financial assistance payments.
6. This contract, when approved by the organization, will remain in effect unless canceled or amended by mutual agreement. If the practice(s) covered by this contract have not been installed by **7/1/26** (date), this contract will be automatically terminated on that date.
7. Items of cost for which reimbursement is claimed are to be supported by invoices/receipts for payments and will be verified by the organization as practical and reasonable. The invoices/receipts must include: the name of the vendor; the materials, labor or equipment used; the component unit costs; and the date(s) the work was performed. The organization has the authority to make adjustments to the costs submitted for reimbursement. Reimbursement requests must also be supported by a completed Percent Based Voucher Form.

Applicant Signatures

The land occupier's signature indicates agreement to:

1. Grant the organization's representative(s) access to the parcel(s) where the conservation practice(s) will be located.
2. Have all required legal land rights, including but not limited to: access and authority to both construct and maintain the conservation practice(s) agreed upon in this contract for the effective life of the practice(s).
3. Obtain any permits required in conjunction with the installation and establishment of the practice(s) prior to starting construction of the practice(s).
4. Be responsible for the operation and maintenance of the conservation practice(s) applied under this program in accordance with an Operation and Maintenance Plan prepared by the technical assistance provider.
5. Not accept financial assistance funds, from state sources in excess of 75 percent, or state and non-state sources that when combined are in excess of 75 percent of the total cost to establish the conservation practice(s).
6. Provide copies of all forms and contracts pertinent to any other state or non-state programs that are contributing funds toward this project.

Date 8/11/25	Land Occupier 
Date	Landowner, if different from applicant Address, if different from applicant information:

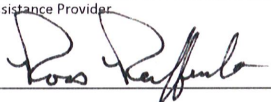
Conservation Practice

The primary practice for which assistance is requested is _____

Practice standard(s) or eligible component(s) 638 - Water & Sediment Control Basins 606 - Sub Surface Drain 620 - Underground Outlet	Total Project Cost Estimate \$45,374.20
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Technical Assessment and Cost Estimate

I have the appropriate technical expertise and have reviewed the site where the above-listed practice(s) will be installed and deem the practice(s) needed and that the estimated quantities and costs are practical and reasonable.

Date 8-7-2025	Technical Assistance Provider 
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Amount Authorized for Financial Assistance

The organization has authorized the following for financial assistance: total not to exceed 75 percent of the total cost to establish the conservation practice.

Approval Date 8/13/25	Authorized Signature 	Total Amount Authorized \$ 34,030.65
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John Schafer Erosion Control

Bids

Geise Excavating Inc.	\$	45,374.20
Dozer Excavating	\$	50,371.30
TS Dirtworks	\$	79,351.00

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25% Minimum Owner Share \$ 11,343.55

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Engineers Cost Estimate \$ 75,410.50

John Shafer
 Benton SWCD
 Erosion Control
 Cost Estimate

By MRG
 Checked by _____

6/26/2024
 Date _____

Item No.	Work or Material	Quantity	Unit	Unit Price	Amount (\$)
1	Mobilization	1	Job	600	600
2	Salvaging & Spreading Topsoil (4-1300 CY)	1	Job	3600	3600
3	Compacted Earthfill, Borrow, Class C (CV)-WSB 1	660	Cu. Yd.	2.50	1650
4	Compacted Earthfill, Borrow, Class C (CV)-WSB 2	1370	Cu. Yd.	2.70	3699
5	Compacted Earthfill, Borrow, Class C (CV)-WSB 3	760	Cu. Yd.	2.95	2242
6	Earthen Diversion	200	Cu. Yd.	4.00	800
7	6" Dual Wall Pipe	40	Ln. Ft.	7.30	292
8	10" Dual Wall Pipe	20	Ln. Ft.	9.60	192
9	12" Dual Wall Pipe	20	Ln. Ft.	10.20	204
10	6" Non-Perforated, Heavy Duty Corrugated Tile	1410	Ln. Ft.	4.30	6063
11	6" Perforated, Heavy Duty Corrugated Tile (Support Tile)	480	Ln. Ft.	4.00	1920
12	8" Non-Perforated, Heavy Duty Corrugated Tile	730	Ln. Ft.	5.18	3781.40
13	12" Non-Perforated, Flex Dual Wall Tile	960	Ln. Ft.	11.23	10780.80
14	12" Non-Perforated, Dual Wall Pipe	600	Ln. Ft.	10.75	6450.00
15	20"x15" CMP Outlet with Animal Guard	2	Each	675	1350.00
16	Rock Riprap (MNDOT Class II)	16	Cu. Yd.	20	320.00
17	Geotextile Fabric (MNDOT Type III)	36	Sq. Yd.	5	180
18	6" Hickenbottom Style Intake or Equivalent	2	Each	185	370.
19	10" Hickenbottom Style Intake or Equivalent	1	Each	260	260
20	12" Hickenbottom Style Intake or Equivalent	1	Each	500	500
21	Orifice Plates	4	Each	30	120
22	Seed, Fertilize & Mulch	1	Job		

(CV) = Compacted Volume

*SEE NOTES TO CONTRACTORS

TOTAL \$45,374.20

Contractor:

Gene Excavating Inc

By:

Gary Geise

Date:

Jay Geni

- 320-249-4830

ESTIMATE

Dozer Excavating, LLC
20358 331st Ave
Burtrum, MN 56318

dozerexc@gmail.com
+1 (320) 630-7331



Bill to

John Shafer

Estimate details

Estimate no.: 225

Estimate date: 02/26/2025

#	Product or service	Description	Qty	Rate	Amount
1.	Services	mobilization	1	\$2,000.00	\$2,000.00
2.	Yard	salvage and spread top soil	1300	\$4.00	\$5,200.00
3.	Yard	compacted earthfill	660	\$3.50	\$2,310.00
4.	Yard	compacted earthfill	1370	\$3.50	\$4,795.00
5.	Yard	compacted earthfill	760	\$3.50	\$2,660.00
6.	Yard	earth diversion	200	\$5.00	\$1,000.00
7.	Ft	6 inch dw	40	\$4.50	\$180.00
8.	Ft	10 inch dw	20	\$10.16	\$203.20
9.	Ft	12 inch dw	20	\$12.56	\$251.20
10.	Ft	6 inch np til	1410	\$2.87	\$4,046.70
11.	Ft	6 inch perf tile	480	\$2.87	\$1,377.60
12.	Ft	12 inch np dw	960	\$12.56	\$12,057.60
13.	Ft	12 inch np dw	600	\$12.56	\$7,536.00
14.	Ft	20 foot by 15 inch cmp outlet	2	\$800.00	\$1,600.00
15.	Yard	rip rap	16	\$125.00	\$2,000.00
16.	Services	geotextile fabric	36	\$14.00	\$504.00

17. Services	hickenbottom 6 inch	2	\$250.00	\$500.00
18. Services	hickenbottom 10 inch	1	\$260.00	\$260.00
19. Services	hickenbottom 12 inch	1	\$270.00	\$270.00
20. Services	orifice plates	4	\$30.00	\$120.00
21. Services	seeding mulching	1	\$1,500.00	\$1,500.00

Total

\$50,371.30

Accepted date

Accepted by

AMENDMENT TO CONSERVATION PRACTICE ASSISTANCE CONTRACT

Organization Mille Lacs SWCD	Contract Number RWBIF23-3265- RuralBMP-1	Amendment Number 1 Approval date: <u>6/10/2026</u>	Amendment Type Date: <input checked="" type="checkbox"/> Amount: <input type="checkbox"/> Land Occupier/Landowner: <input type="checkbox"/> Practice: <input type="checkbox"/>
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State Grant Agreement Expiration Date: 12/31/2026

Original Contract Install Date: 7/1/2026	Amended Contract Install Date: 11/30/2026
Original Total Amount Authorized: \$34,030.65	Amended Total Amount Authorized: No Change
Original Land Occupier/Landowner: John Schafer	Amended Land Occupier/Landowner: No Change
Original Practice: 638, 606, 620	Amended Practice: No Change

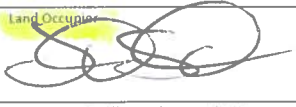
The parties whose names are signed below hereby agree that the above-referenced Conservation Practice Assistance Contract is amended as follows:

IT IS AGREED THAT: The installation date shall be moved from July 7th, 2026, to ~~October 31st~~, 2026, as to account for delays in construction beyond landowner control.

*Nov. 30
MTM 6/9/26 JS*

The original contract, as numbered, shall remain in full force and effect, except for those changes made necessary by this amendment.

This amendment is to take effect on the date of the last signature hereto.

Date	Land Occupier
6/6/26	
Date	Landowner, if different from applicant

Technical Assessment

I have the appropriate technical expertise and have reviewed the proposed amendment and deem the changes necessary.

Date	Technical Assistance Provider
6-9-2026	

Organization Approval

Approval Date	Authorized Signature

***Attach this form to the Conservation Practice Assistance Contract**