

RED LAKE WATERSHED DISTRICT

December 29, 2022

9:00 a.m.

Agenda

9:00 a.m.	Call to Order	Action
	Review and approve agenda	Action
	Requests to appear	Information
	December 8, 2022 Minutes	Action
	Financial Report dated December 28, 2022	Action
	General Fund Budget (November 30, 2022)	Information
	League of MN Cities Dividend	Information
	Knutson Dam Structure Replacement, RLWD Proj. No. 50F	Information
	Distributed Storage Study, RLWD Project No. 92A RLWD Project No. 46L-Turtle Cross Watershed Study	Information
	Red Lake River 1W1P, RLWD Project No. 149A-Crescent Avenue Proj.	Info./Action
9:30 a.m.	Beltrami County Forestry Plan-Alyson Bergstrom (Zoom)	Info./Action
	AutoCad Renewal	Info./Action
	Natural Resource Technician Position	Info./Action
	Revise Permit No. 22-046, Gervais Township, Red Lake County	Action
	Table Permit: No. 22221, Paul Sorenson, Bygland Twp., Polk County	Action
	No. 22267, Delano Thorson, Roome, Polk County	Action
	No. 22268, River Falls, Pennington County	Action
	No. 22273, Justin Halvorson, Louisville Twp, Red Lake Co.	Action
	Denied Permit No. 22269, Gerald Michaelson, Louisville Twp., Red Lake County	Action
	Permits: No. 22274 and 22275	Action
	40 th Annual Red River Basin Land & Water Int. Conference-Winnipeg	Information
	Drainage Conference-Alexandria-February 8-9, 2023	Information

MAWD Legislative Breakfast–February 15-16, 2023	Information
24 th Annual Joint Conference RRWMB/FDRWG–February 21-22, 2023	Information
Administrators Update	Information
Legal Counsel Update	Information
Managers’ updates	Information
Adjourn	Action

UPCOMING MEETINGS

January 2, 2023	New Year’s Holiday – Office Closed
January 12, 2023	RLWD Board Meeting, 9:00 a.m.
January 16, 2023	Martin Luther King Holiday – Office Closed
January 17-19, 2023	40 th Annual Red River Basin Land & Water Int. Summit Conference, Winnipeg
January 26, 2023	RLWD Board Meeting
February 8-9, 2023	Drainage Conference, Alexandria
February 9, 2023	RLWD Board Meeting
February 15-16, 2023	MAWD Legislative Breakfast
February 21-22, 2023	24 th Annual Joint Conference RRWMB/FDRWG
February 23, 2023	RLWD Board Meeting

DRAFT

RED LAKE WATERSHED DISTRICT
Board of Manager's Minutes
December 8, 2022

President, Dale M. Nelson, called the meeting to order at 9:00 a.m. at the Red Lake Watershed District Office, Thief River Falls, MN.

Present: Managers: Gene Tiedemann, Terry Sorenson, Allan Page, Tom Anderson, Brian Dwight, LeRoy Ose, and Dale M. Nelson. Staff Present: Myron Jesme, Tammy Audette, and Legal Counsel, Delray Sparby.

The Board reviewed the agenda. A motion was made by Tiedemann, seconded by Page, and passed by unanimous vote that the Board approve the agenda. Motion carried.

The Board reviewed the November 22, 2022, minutes. Motion by Anderson, seconded by Ose, to approve the November 22, 2022, Board meeting minutes as presented. Motion carried.

The Board reviewed the Financial Report dated December 7, 2022. Motion by Sorenson, seconded by Dwight, to approve the Financial Report dated December 7, 2022, as presented. Motion carried.

Staff member Ann Joppru reviewed the General Fund Budget as of October 31, 2022. Administrator Jesme discussed repairs made to the heating system earlier in the week, which are not reflected in today's General Fund Budget balances. Jesme also noted that the sale of the 2011 Ford F150 is not reflected in Engineering Equipment, rather in the Miscellaneous Revenue.

The Board reviewed two Letters of Credit from American Federal Bank, due to the increased balance in the District's account guaranteeing coverage under FDIC requirements.

Staff member Ann Joppru indicated that Edward Jones contacted her stating that interest rates for Certificate of Deposits was now at 4.75%. Discussion and review of the Capital Fund account balances was had and the need to possibly invest some of these dollars at a higher rate than our present Investment Savings account. Administrator Jesme mentioned that the balances in the account also include 1W1P funds received to date and that the District is the Fiscal Agent for three 1W1P Grants. After considerable discussion was had concerning investments, motion by Sorenson, seconded by Ose, to approve the purchase of a \$500,000 Certificate of Deposit from Edwards Jones. Motion carried.

The Board reviewed Task Order No. 2 from HDR Engineering, Inc. in the amount of \$57,060 for Engineering services for the Mud River Project, RLWD Project No. 180C. Motion by Dwight, seconded by Tiedemann to approve Task Order No. 2 from HDR Engineering, Inc. for the Mud River Project, RLWD Project No. 180C. Motion carried. Manager Ose stated that at the December 7, 2022, Flood Damage Reduction Work Group (FDRWG) meeting, the District was awarded an additional grant in the amount of \$7,500 for development of the Mud River Project, bringing the total amount from the FDRWG to \$37,500.00.

The Board reviewed Pay Estimate No. 3-Final to Gladen Construction for the Demarais Hanson Project, RLWD Project No. 149. Engineer Tony Nordby, Houston Engineering, Inc., stated that the Final Payment hearing was held on November 10, 2022, with payment contingent on receipt of the IC-134 Form and removal of the silt fence. Nordby stated that in lieu of the Contractor having to mobilize on-site, Quality Spray Foam/Anderson Excavating removed the silt fence, therefore the Final Payment to Gladen Construction will be lessened in the amount of \$420.00. Motion by Ose, seconded by Page, to approve the adjustment to Pay Estimate No. 3-Final to Gladen Construction for the Demarais Hanson Project, RLWD Project No. 149. Motion carried.

The Board reviewed the permits for approval. Motion by Sorenson, seconded by Anderson, to approve the following permits with conditions stated on the permit: No. 22270, 22771 and 22772, Badger Township, Polk County. Motion carried.

At 9:30 a.m., President Nelson called the final payment hearing to order for R.J. Zavoral & Sons, Inc., for the construction of the Black River Impoundment, RLWD Project No. 176. It was shared that proper notice of the hearing had been given. President Nelson asked the Board members or audience if there were any comments or objections to the final payment to R.J. Zavoral & Sons, Inc. in the amount of \$156,411.23. Jesme indicated that the District received the IC-134 from R.J. Zavoral & Sons, Inc. With no other comments or objections from the Board or audience, President Nelson closed the hearing. Motion by Tiedemann, seconded by Ose, and carried unanimously, to approve the final payment to R.J. Zavoral and Sons, Inc. in the amount of \$156,411.23.

Administrators Update:

- Jesme and Manager Ose will attend the December 13, 2022, RRWMB meeting in Ada. Local legislators will also be in attendance.
- Included in the packet was a letter from the RRWMB to Governor Walz requesting his support for Flood Hazard Mitigation funding as well as stable funding for FDR in the future.
- There will be a Thief River 1W1P Steering Committee meeting on December 16th in preparation for the December 19th Advisory and Policy Committee meeting.
- District staff has completed a preliminary survey of the Clearwater River near the District's Greenwood 27 Project in Clearwater County in preparation for Houston Engineering to proceed with engineering and design on several bank erosion areas identified in a drone flight this fall. Costs will be covered under a remaining balance in the Watershed Planning grant toward our Technical and Engineering costs of the Clearwater River 1W1P.
- A meeting was held with local partners of the Red Lake River 1W1P to review five options for the repair of the slough at the outlet of Polk County Ditch 99. Options were narrowed down to allow for cost reduction options. The next meeting will be held December 12th with landowners on the Crescent Avenue Project in Crookston to discuss options on bank stabilization near various homes on Crescent Avenue.

- District staff is continuing to work with FEMA on data input for completed projects. FEMA has also provided on-site staff to work with District staff to review and gather information on projects that have yet to be constructed or repaired.
- Jesme attended the Minnesota Association of Watershed Administrators meeting in Alexandria prior to the MAWD Convention. All staff and four Board members attended the MAWD pre-conference sessions followed by open sessions and the banquet.

Managers Ose, Tiedemann, Anderson, Page, and Sorenson indicated that they plan to attend the RRWMB meeting held December 13, 2022, in Ada.

Legal Counsel Sparby stated that the Court of Appeals hearing for the Appeal to Polk County Ditch 39 Improvement, RLWD Project No. 179 will be held on January 20, 2023, via Zoom. The Court of Appeals is a three-judge panel. Sparby discussed the information that was submitted to the Appeals Court for review, to assist the judges in further understanding drainage law as it pertains to the Appeal on the Improvement to Polk County Ditch 53.

Administrator Jesme shared with the Board a Draft Drainage Legislation under MN Statutes 103E.015 proposed by MnDNR and some environmental groups. Discussion was had on who would pay for the additional engineering cost for the environmental review of the Outlet Adequacy proposed under proposed statutory changes. Jesme discussed information he received from Ray Bohn, that will be discussed at today's Drainage Work Group meeting. The proposed legislation would also pertain to any ditch repairs. Jesme further discussed the proposed Drainage Portal and process that was proposed in legislation last Spring and will keep the Board updated as additional information is available.

Manager Dwight stated that Zach Gutknecht, Beltrami County, and Robyn Dwight, Upper Red Lake Area Association were invited to visit with MnDNR staff this afternoon at the invitation of the MnDNR Commissioner regarding the "Keep It Clean" campaign, followed by a presentation next week at the MASWCD Conference and panel and the Red River Basin Commission conference in Winnipeg in January. Dwight discussed the presentation by Paul Gardner, Administrator of the Clean Water Council at the MAWD Convention and his response regarding potential funding and submittal of applications.

Manager Ose stated that Marshall County reappointed him to the Board for an additional 3-year term. Manager Dwight stated that submitted his letter of interest for reappointment to the Beltrami County Board.

Motion by Anderson, seconded by Ose, to adjourn the meeting. Motion carried.

LeRoy Ose, Secretary

RED LAKE WATERSHED DISTRICT
Financial Report for December 29, 2022

Ck#	Check Issued to:	Description	Amount
online	EFTPS	Withholding FICA, Fed & Medicare (12-7-22 payroll)	\$ 4,509.62
online	MN Department of Revenue	Withholding taxes (12-7-22 payroll)	\$ 814.41
online	EFTPS	Withholding FICA, Fed & Medicare (12-14-22 payroll)	\$ 57.38
online	EFTPS	Withholding FICA, Fed & Medicare (12-21-22 payroll)	\$ 5,444.15
online	MN Department of Revenue	Withholding taxes (12-21-22 payroll)	\$ 989.10
online	Public Employers Retirement Assn.	PERA (12-21-22 payroll)	\$ 2,956.39
online	Further	Employee HSA (12-21-22 payroll)	\$ 175.00
	Landman Publishing	Voided check	\$ (212.82)
40501	Landman Publishing	Ads for General Fund Budget hearing	\$ 162.86
40502	RJ Zavoral & Sons	Final Pay Estimate Black River Imp. Proj. #176	\$ 156,411.23
40503	Edward Jones Investment	Purchase \$500,000 12 month CD 4.80%	\$ 500,000.00
40495	Red Lake SWCD	Voided check - wrong amount	\$ (78,768.11)
40504	Red Lake SWCD	Corrected amount. Proj. #149 and #164	\$ 69,310.98
40505	Quality Foam/Anderson Excav.	Final Pay Est. #149 Dem Hanson & #149A SD 83	\$ 151,824.32
40506	Taggart Contracting, Inc.	Final Pay Est. #50F Knutson Dam Structure Replace	\$ 21,661.40
40507	Red Lake SWCD	Construction on Voyager's View Proj. 46Q and 149	\$ 130,071.60
40508	Olson Construction	** see below for project details	\$ 5,640.00
40509	Brodin Comfort System	Burned out blower motor, hose and Pump	\$ 2,899.50
40510	City of TRF	Final payment for TR streambank projects. Proj. #46	\$ 13,798.19
40511	Corporate Technologies	Managed IT services & MS office 365	\$ 1,472.50
40512	Darold Rodahl	Mileage for meeting #149A	\$ 18.75
40513	East Polk SWCD	Reimburse for water quality testing #46	\$ 2,808.00
40514	Gene Tiedemann	Mileage	\$ 266.25
40515	Harvey Klipping	Removal of Gophers. Ditch 10 Proj. #161	\$ 126.00
40516	HDR, Inc.	* see below for project details	\$ 30,604.58
40517	Holthusen Construction Co.	Beaver Removal. Proj. #13	\$ 330.00
40518	Hudson Electric LLC	Replacing bulbs with LED Bulbs	\$ 777.52
40519	Kim Nordheim	Meeting supplies - board meeting	\$ 50.00
40520	Lonnie Peck	Beaver Removal. Proj. #60D	\$ 1,650.00
40521	Maple Lake Improvement Dist	Reimburse Lake Assn. for water quality testing #46	\$ 1,040.00
40522	Marco	Telephone expense	\$ 339.03
40523	Matrix Trust Company	Deferred Comp	\$ 660.04
40524	MN DNR License Center	License 2 Kayaks	\$ 54.20
40525	NCPERS Trust Company	Staff Life Insurance	\$ 128.00
40526	Northwest Power Systems	Locks Proj. #35	\$ 3.51
40527	Pitney Bowes	Postage for postage machine	\$ 301.50
40528	Red River Watershed Mgmt Board	2nd half 2022 taxes	\$ 658,706.67
40529	RMB Environmental Laboratories	Lab analysis of water quality samples	\$ 279.18
40530	Sun Life Financial	Staff Life Insurance	\$ 147.84
40531	Thief River Glass	Windshield replacement Vehicle #934	\$ 600.00
40532	Troy Glass	Clean offices	\$ 280.00
online	Further	Medical FSA withdrawal	\$ 42.31
online	City of TRF	Office utilities	\$ 451.32
online	Purewater Technology	H2O for office	\$ 38.00
online	Cardmember Services	*** see below for details	\$ 7,977.83
online	Further	Medical FSA withdrawal	\$ 420.35
online	Quick Books	Monthly Fee	\$ 329.00
online	Further	Monthly Fee	\$ 8.25
online	AT & T	Cell Phone expense	\$ 401.99
online	MN Energy Resources Corp	Heating expense	\$ 169.86
online	Garden Valley	Internet expense	\$ 68.95

direct	Ann Joppru	Expenses for MAWD Conference 11-30 to 12-3	\$	79.23
direct	Erick Huseth	Expenses for MAWD Conference 11-30 to 12-3	\$	52.00
direct	Tony Olson	Expenses for MAWD Conference 11-30 to 12-3	\$	52.00
direct	Tammy Audette	Expenses for MAWD Conference 11-30 to 12-3	\$	52.00
direct	Christina Slowinski	Expenses for MAWD Conference 11-30 to 12-3	\$	52.00
direct	Myron Jesme	Expenses for MAWD Conference 11-30 to 12-3	\$	91.00
direct	Corey Hanson	Expenses for MAWD Conference 11-30 to 12-3	\$	70.64
direct	Tom Anderson	Mileage	\$	210.00
direct	Al Page	Mileage	\$	296.26
direct	Brian Dwight	Expenses	\$	395.01
direct	Dale Nelson	Mileage	\$	35.00
direct	LeRoy Ose	Expenses	\$	332.75
direct	Terry Sorenson	Expenses	\$	267.30
direct	Tom Anderson	Mileage	\$	70.00

Staff & Board Payroll	12-14-22, 12-21-22 & 12-30-22	\$	18,780.90
Total Checks		\$	1,719,132.72

*** HDR Engineering**

Proj. 180C Mud Rvr Restoration	9,955.00
Proj. 149 Cresent Ave Prelim Eval	9,505.00
Proj. 26B Phase II Pine Lake	468.33
Proj. 149 CD 99 Slope Repair	10,676.25
Total	30,604.58

**** Olson Construction**

Proj. 176 Debris Removal -FEMA	2,020.00
Proj. 176 Mowing Aug 2022	2,940.00
Proj. 178A repair Carlson ditch	680.00
Total	5,640.00

***** Cardmember Services**

MAWA lodging - Myron	137.09
Walmart - office & meeting supplies	85.12
MAWD lodging - staff & board	3,695.40
MAWD registration - staff & board	4,050.00
MN Dept of Ag - applicator license	10.22
Total	7,977.83

Banking Northern State Bank

Balance as of December 8, 2022	\$	716,336.07
Total Checks Written	\$	(1,719,132.72)
Receipt #25016 Raymond Zammert - Land Rent Proj. #60C	\$	1,718.46
Receipt #25017 Koochiching Co - 2022 Tax settlement	\$	4,974.59
Receipt #25018 Red Lake Co - 2022 Tax settlement	\$	96,367.99
Receipt #25019 Transfer funds from AFB to NSB	\$	500,000.00
Receipt #25022 State of MN Market Value Aid \$37,395.48 & Disparity credit \$65,309.98	\$	102,705.46
Receipt #25023 Transfer funds from AFB to NSB	\$	500,000.00
Balance as of December 29, 2022	\$	<u>202,969.85</u>

Current interest rate is .20%

American Federal Bank-Fosston

Balance as of December 8, 2022	\$	5,320,223.81
Receipt #25019 Transfer funds from AFB to NSB	\$	(500,000.00)
Receipt #25020 League of MN Cities - Dividend	\$	1,880.00
Receipt #25021 Marshall County - Tax on State Ditch 83 - Proj. #14	\$	5,677.91
Receipt #25023 Transfer funds from AFB to NSB	\$	(500,000.00)
Receipt #250		
	\$	<u>4,327,781.72</u>

Balance as of December 29, 2022

Current interest rate is 2.15%

Investments

Edward Jones Balance	12 month CD 3.45% Expiry 9-15-23	<u><u>\$ 241,000.00</u></u>
Edward Jones Balance	12 month CD 3.7% Expiry 9-22-23	<u><u>\$ 240,000.00</u></u>
Edward Jones Balance	12 month CD 3.7% Expiry 9-22-23	<u><u>\$ 17,000.00</u></u>
Edward Jones Balance	12 month CD 4.8% Expiry 12-15-23	<u><u>\$ 238,000.00</u></u>
Edward Jones Balance	12 month CD 4.8% Expiry 12-15-23	<u><u>\$ 238,000.00</u></u>
Edward Jones Balance	12 month CD 4.8% Expiry 12-15-23	<u><u>\$ 24,000.00</u></u>
	Total Cash	\$ 5,308,781.72

2022 GENERAL FUND BUDGET

as of November 30, 2022

(unaudited)

	2021 BUDGET	2021 Exp	(over) under	tr Exp.
Manager's fees, salaries	40,000.00	34,211.08	5,788.92	30,000.00
Board of Manager's expense	24,200.00	14,044.76	10,155.24	18,150.00
Staff salaries	567,000.00	453,095.71	113,904.29	425,250.00
Payroll taxes	43,375.50	37,421.00	5,954.50	32,531.63
Employee benefits	87,500.00	102,183.38	(14,683.38)	65,625.00 1
Unemployment Benefits	0.00	1,490.00	(1,490.00)	2
Travel & meetings(mileage & exp.)	5,000.00	5,149.94	(149.94)	3,750.00 3
Audit	9,450.00	9,450.00	0.00	7,087.50
Legal	16,000.00	8,632.00	7,368.00	12,000.00
Office supplies	20,000.00	13,074.23	6,925.77	15,000.00
Office equipment	30,000.00	21,735.42	8,264.58	22,500.00
Appraiser/Viewer Expense	2,000.00	0.00	2,000.00	1,500.00
Professional services	20,000.00	24,075.95	(4,075.95)	15,000.00 4
Dues and subscriptions	10,000.00	14,438.34	(4,438.34)	7,500.00 5
Insurance and bonds	45,000.00	46,622.00	(1,622.00)	33,750.00 6
Repairs and maintenance-Building	15,000.00	16,821.86	(1,821.86)	11,250.00 7
Utilities	12,000.00	8,379.48	3,620.52	9,000.00
Advertising and publications	4,000.00	6,790.82	(2,790.82)	3,000.00 8
Telephone	11,000.00	8,923.74	2,076.26	8,250.00
Vehicle expense and maintenance	14,000.00	19,449.73	(5,449.73)	10,500.00 9
Engineering supplies	3,000.00	2,961.40	38.60	2,250.00
Engineering equipment	40,000.00	52,983.45	(12,983.45)	30,000.00 10
Interest	0.00	0.00	0.00	0.00
TOTAL	1,018,525.50	901,934.29	116,591.21	763,894.13
Less: Overhead	850,500.00	726,846.83	(123,653.17)	637,875.00
Less: Miscellaneous revenue	5,000.00	19,844.26	14,844.26	3,750.00 11
General Fund Budget	163,025.50	155,243.20	7,782.30	122,269.13

January 1, 2022 Beg. Balance	244,098.50	244,098.50
County levies revenue	0.00	81,522.06
Gross balance with revenue		325,620.56
Less net expenses		(155,243.20)
Subtotal- General Fund w/o interest		170,377.36

Plus interest earned-if allocated to GF 100%		37,516.25
General Fund Balance 11-30-22		207,893.61

- 1- Health insurance adjustment
- 2- Not budgeted
- 3- Travel increased after Covid
- 4- Brady Martz accounting assistance
- 5- MAWD \$7500, LCMIT \$2119
- 6- Increase in Liability insurance

- 7- Painting \$4945, snow removal \$1480, mowing \$2400
- 8- Advertising for Ditch inspector
- 9- Increase in gas & vehicle maintenance
- 10- Purchase of 2022 Ford pickup
- 11- Sale of 2011 Ford pickup

DIVIDEND ANNOUNCEMENT

DECEMBER 7, 2022

Dear Member,

We are pleased to enclose a check for your share of the \$10 million dividend being returned to members of the League of Minnesota Cities Insurance Trust's property/casualty program. Since 1987, the property/casualty program has returned a total of \$315 million in dividends, and the workers' compensation program has returned an additional \$38 million.

Along with your check, also enclosed is your dividend history and an information sheet showing the data used to calculate your dividend. Your agent will also receive this information, and we encourage you to share it with your city council or other governing body.

Why is a dividend being returned?

If the Trust's fund balance reaches a level where it's more than sufficient to pay claims and plan for contingencies, the Trust can return funds to its members. We re-evaluate every year based on losses experienced by members, actuarial projections, investment results, legislative and coverage changes, reinsurance costs, and the Trust's long-term strategic direction.

What is the dividend formula?

Dividends are calculated based on a formula that recognizes members with a longer history of coverage with the Trust and greater success in avoiding and controlling claims. The breakdown of your share is shown on the enclosed information sheet.

Is there any pattern or trend to the amount of dividend to expect in the future?

Yearly fluctuation in dividend returns is to be expected, and members should not include dividend returns in their yearly budget projections.

Thank you for your continued membership and confidence in the Trust. We are honored to partner with you to serve your community. Feel free to contact Sarah Fredericks, Program Assistant, at sfredericks@lmc.org or (651) 281-1228 if you have any questions.

The League of Minnesota Cities Insurance Trust Board of Trustees

Jake Benson, Councilmember, Proctor
Dave Callister, Manager, Plymouth
Clint Gridley, Administrator, Woodbury
Anna Gruber, Administrator, Sartell

D. Love, Mayor, Centerville
Dave Unmacht, Executive Director, LMC
Alison Zelms, Administrator, Rochester

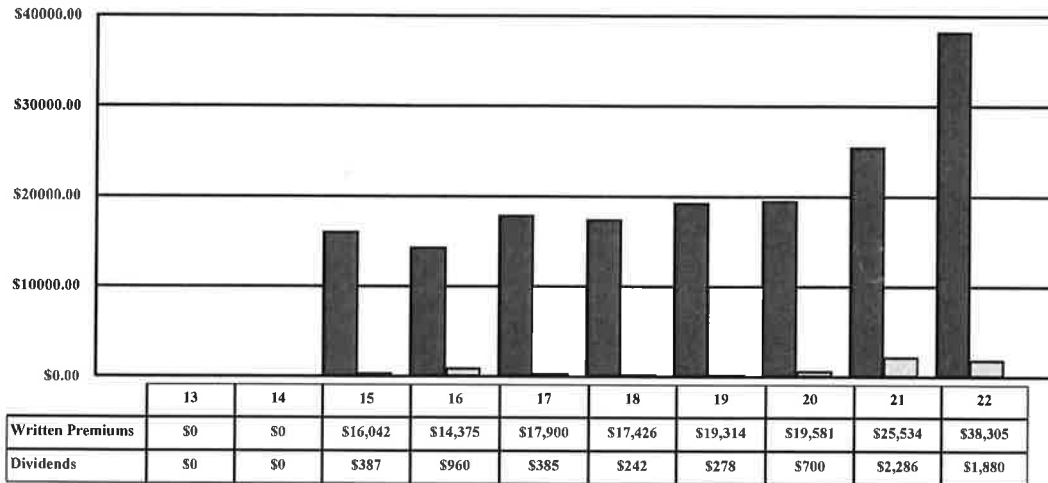
**LEAGUE OF MINNESOTA CITIES INSURANCE TRUST
PROPERTY/CASUALTY
2022 DIVIDEND CALCULATION
AT MAY 31,2022**

Northern State Agency
Po Box 639
Thief River Falls MN 567010639

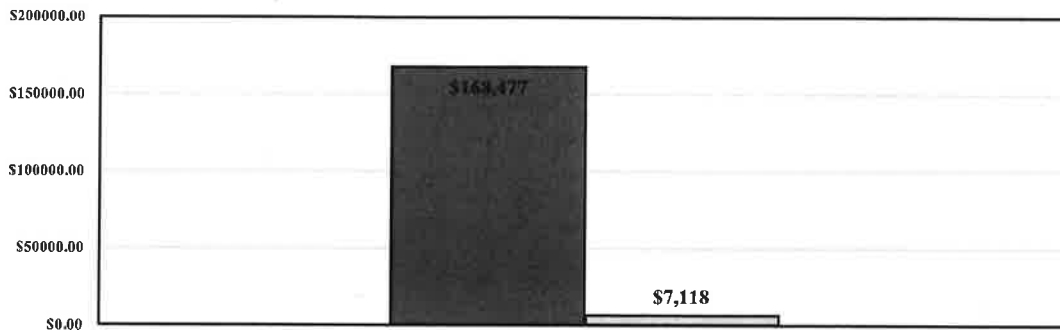
Red Lake Watershed District
1000 Pennington Ave S
Thief River Falls, MN 567014013

GROSS EARNED PREMIUM	\$164,421
ADJUSTED LOSSES	\$15,846
MEMBERS DIVIDEND PERCENTAGE	0.00018799000
DIVIDEND AMOUNT	\$1,880

Premium and Dividend History



Premiums and Dividends Since 1987



The "gross earned premium" figure is the member's total earned premiums as of May 31, 2022 for the past 20 years. This is the premium figure that's used in the dividend calculation.
The "2022 written premium" figure is the member's total premium for the member's most recent renewal prior to May 31, 2022. (For most members, only a portion of that 2022 written premium would be earned as of May 31, 2022)



Red Lake Watershed District

Construction Report

Knutson Dam Structure Replacement Project

RLWD Project 50F

December 13, 2022

Prepared for:
State of Minnesota
Department of Natural Resources
Division of Waters

Prepared by:
Houston Engineering, Inc.
125 3rd Street East
Thief River Falls, MN 56701
Phone # 218.681.2951



TABLE OF CONTENTS

1 INTRODUCTION.....	1
1.1 CONSTRUCTION SUMMARY.....	1
1.2 PROJECT CHANGES FROM ORIGINAL PLANS.....	2
1.3 COST SUMMARY.....	2
1.4 PROJECT BENCHMARK.....	2
1.5 PROJECT PHOTOS.....	2
1.6 STATEMENT FROM ENGINEER.....	2

APPENDICES

Appendix A:	Record Drawings
Appendix B:	Change Orders
Appendix C:	Final Payment Report
Appendix D:	Project Benchmark
Appendix E:	Project Photos

1 INTRODUCTION

This report has been prepared for the Minnesota Department of Natural Resources to satisfy conditions in Dam Safety Permit Number (2022-0486) and Water Appropriation Permit Authorization Number (2022-1354) for the Knutson Dam Structure Replacement Project. The project is located in Section 35, Red Lake Falls Township, Red Lake County, Minnesota. The permit was granted to replace the existing failing outlet structure with a new 48-inch metal outlet and a 72-inch riser with a rim elevation of 1031.2 in North American Vertical Datum (NAVD) 88 datum. The top of levee was to be reestablished back to an elevation of 1044.7 and side slopes flattened to a minimum 3:1 (Horizontal: Vertical). Recompacting the clay core and random fill areas along with installation of a new filter diaphragm along the exterior clay core and above the outlet of the 48-inch metal outlet.

1.1 CONSTRUCTION SUMMARY

A. Labor Force and Equipment Used

The contractor for this project was Taggart Contracting, Inc. of Thief River Falls, Minnesota. They supplied a foreman, laborers, and operators. They used standard construction equipment, such as: Dozers, Excavators, and Sheepsfoot Roller, Plate Compactor for Excavator, and Miscellaneous equipment.

Houston Engineering, Inc. provided an “on-site” construction representative daily during construction activity providing staking, observation, and horizontal and vertical control for the project. This person monitored construction and documented the work as it was being completed.

B. Construction

Construction began in October of 2022 with implementing the rock ditch checks and stripping of the construction limits of the outlet structure area. The excavated material was stockpiled, and special care taken to stockpile clay material separate from random fill not meeting requirements for reestablishing the clay core. The existing metal structure made up of a 54"- Riser and 42"- Outlet Pipe was removed and replaced with a Corrugated Aluminized Steel (CAS) 72"-Riser and 48"-Outlet Pipe. The excavated material was reused as backfill to reestablish the clay core and remainder of levee. The backfill was placed in approximately 12-to-18-inch lifts and compacted using a sheepsfoot and excavator plate compactor around all structures to the specified quality compaction requirements. Additional common borrow was needed to construct the exterior levee to a 3:1 slope over the outlet pipe. The local borrow source agreed upon between the landowner and the contractor provided quality material that was placed and compacted to the specifications required in the plans and specifications. Riprap was placed at the inlet and outlet of the structure as detailed in the plans and turf establishment activities took place in late October. The establishment of the required vegetation is planned for 2023 and a written signed warranty has been provided by the Contractor to assure this happens.

C. Dewatering

Due to the dry construction conditions, no pumping of the reservoir to the downstream receiving waters was required before or during construction. The only dewatering activity that took place was



performed during the concrete base installation and initial backfill process. A cofferdam was constructed between the reservoir and the construction area for installing the riser structure and appurtenances. The infiltrated waters within the construction area for the riser base was pumped back into the reservoir and not to the downstream receiving waters. Once the initial backfills of the riser took place, no dewatering efforts were required from that point throughout construction.

1.2 PROJECT CHANGES FROM ORIGINAL PLANS

No major changes were made to the original project design or construction plans. Two change orders took place on this project due to a delay receiving materials for the project causing the completion date to be delayed into later fall and the second change order was to replace an existing 18" culvert that discharged directly into the riprap plunge pool as shown on the record drawings in Appendix A and the change order documents in Appendix B.

1.3 COST SUMMARY

One partial payment was made during construction activity and paid at 95% of the value of work completed and approved by the Engineer. The final project payment was dated November 10, 2022 for the Red Lake Watershed District action of approval. A copy of the final payment document is provided in Appendix C.

1.4 PROJECT BENCHMARK

The location and description of the project benchmark used throughout the project is Minnesota Department of Transportation benchmark 6301E located 100.0 feet west of Trunk Highway 32 (TH 32) 1.2 miles south of the junction of TH 32 and County Road 11 near Red Lake Falls. This is TH 32 mile point 84.15. Elevation of 1012.04 feet, NAVD 88 vertical datum. See Appendix D for more information. It should be noted that the NAVD 88 vertical datum was used for the plans.

1.5 PROJECT PHOTOS

Photographs were taken during construction to document the progress of the work. These photographs captured the progress and steps taken during construction. Photographs outlining the progress of the project are provided in Appendix E.

1.6 STATEMENT FROM ENGINEER

A. Statement of Approved Work

I hereby certify that I am a licensed engineer in the State of Minnesota. To the best of knowledge, the dam structure replacement was completed in accordance with the approved designs, plans, and specifications and any revisions thereof.


Tony Nordby, P.E.

License Number 51392

12/13/2022

Date





APPENDIX A

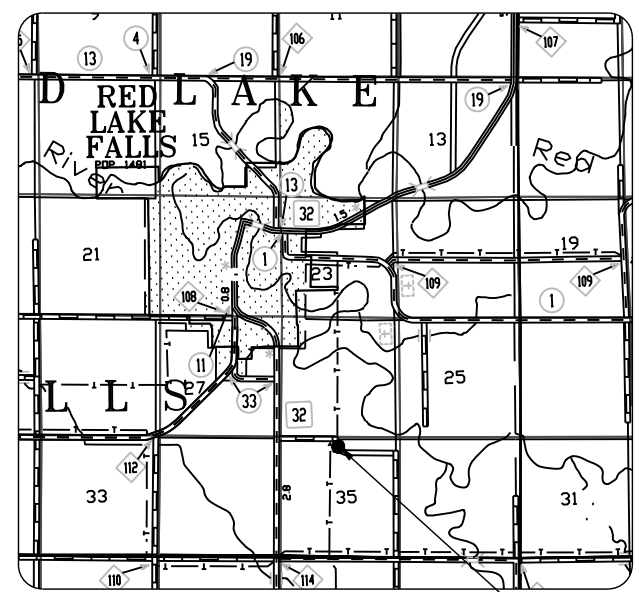
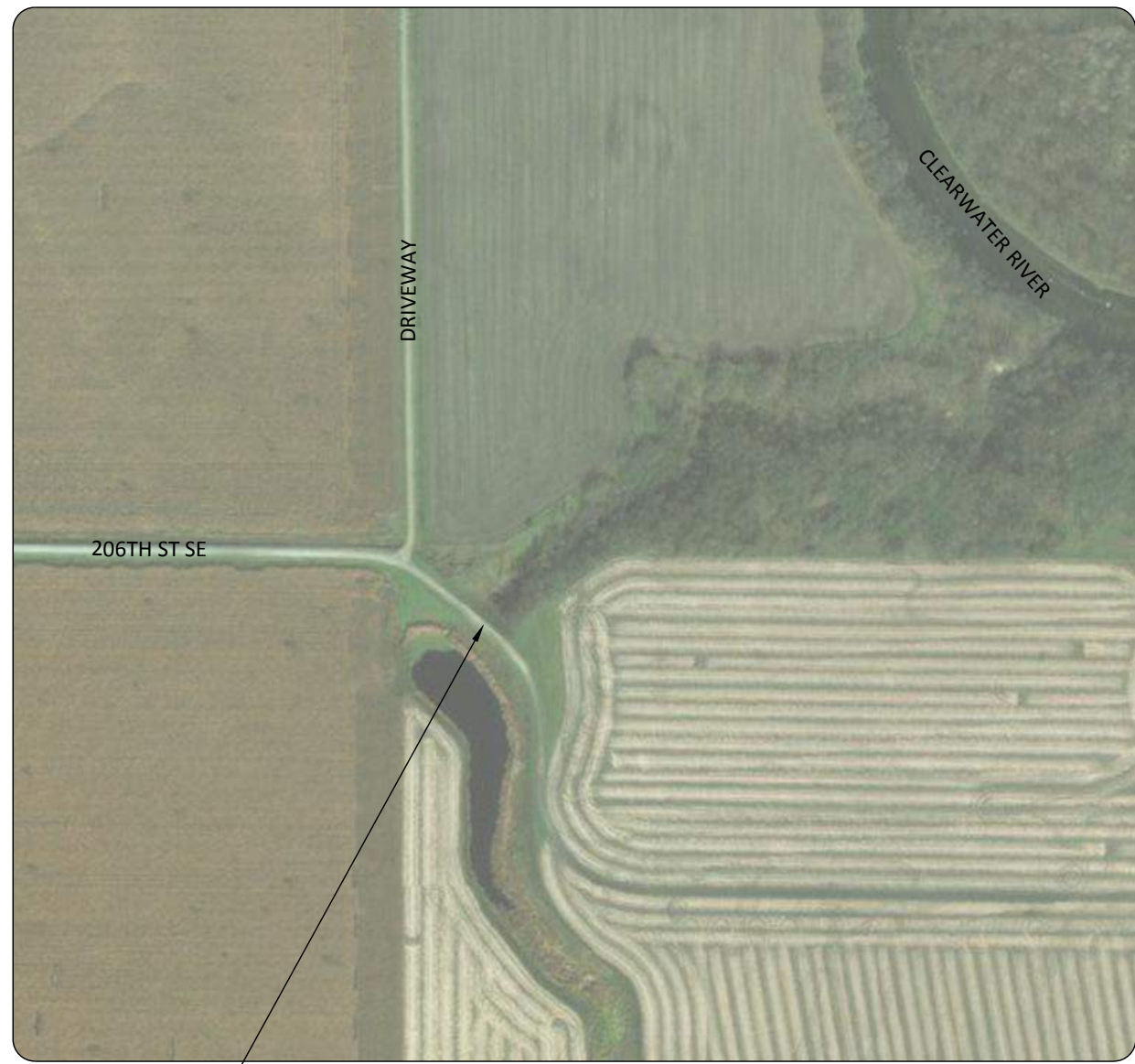
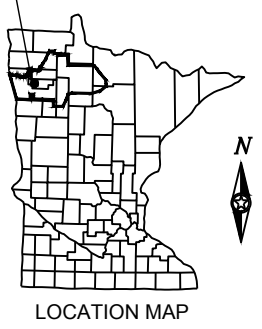
Record Drawings



CONSTRUCTION PLANS FOR KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY MARCH, 2022



PROJECT LOCATION



PROJECT LOCATION

INDEX SHEET

1	COVER SHEET
2	ESTIMATED QUANTITIES AND NOTES
3	LOCATION MAP AND SITE ACCESS
4	STRUCTURE PLAN AND PROFILE
5	DIKE PLAN AND PROFILE
6-8	CONSTRUCTION DETAILS
9-11	EROSION AND SEDIMENT CONTROL PLAN

THIS PLAN CONTAINS 11 SHEETS

GOVERNING SPECIFICATIONS:

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" DIVISION II AND III SHALL GOVERN FOR CONSTRUCTION DETAILS AND MATERIALS.

UTILITY NOTE:

THE UNDERGROUND UTILITIES WERE NOT LOCATED AS PART OF THE PRELIMINARY SURVEY OR DATA GATHERING FOR THIS SITE.

STATE LAW REQUIRES THE EXCAVATOR TO CONTACT GOPHER STATE ONE-CALL AT (800)-252-1166 FOR UTILITY LOCATION 48 HOUR PRIOR TO START OF EXCAVATION WORK.

HORIZONTAL AND VERTICAL CONTROLS

1. ALL COORDINATES LISTED IN THIS PLAN ARE MNDOT, RED LAKE COUNTY, U.S FOOT
2. ALL ELEVATIONS ARE NAVD 88 DATUM

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY FIELD PERSONNEL. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

RECORD DRAWING: 11-14-2022

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ESTIMATED QUANTITIES				
NOTES	SPEC. NO.	ITEM	UNIT	QUANTITY
	2021.501	MOBILIZATION	LUMP SUM	1
(1)	2101.511	CLEARING & GRUBBING	LUMP SUM	1
(2)	2104.502	REMOVE DROP STRUCTURE	EACH	1
(14)	2105.507	COMMON EXCAVATION (EV) (P)	CU. YD.	1613
(15)	2105.507	COMMON BORROW (CV) (P)	CU. YD.	870
	2118.507	AGGREGATE SURFACING, CLASS 5 (CV)	CU. YD.	49
(3)	2451.507	FINE FILTER AGGREGATE (CV) (P)	CU. YD.	100
(5) (10)	2451.601	STRUCTURE EXCAVATION	LUMP SUM	1
(4)	2451.607	AGGREGATE DRAIN (CV) (P)	CU. YD.	9
(11)	2503.503	48" CAS PIPE SEWER	LIN. FT.	148
(6)	2506.601	72" CAS RISER STRUCTURE, DESIGN SPECIAL	LUMP SUM	1
(7)	2506.602	TRASH RACK	EACH	1
(12)	2511.507	RANDOM RIPRAP, CLASS II	CU. YD.	7
(13)	2511.507	RANDOM RIPRAP, CLASS IV	CU. YD.	157
(8)	2573.503	SILT FENCE, TYPE MS	LIN. FT.	100
(9)	2575.504	RAPID STABILIZATION, METHOD 4	LUMP SUM	1

STANDARD PLATES	
THE FOLLOWING MNDOT STANDARD PLATES SHALL APPLY ON THIS PROJECT.	
PLATE NO.	DESCRIPTION
3040F	CORRUGATED METAL PIPE CULVERT (STANDARD 2-2/3"X1/2" CORRUGATION)
3221D	CORRUGATED STEEL PIPE COUPLING BAND (3 SHEETS)

CONSTRUCTION NOTES:

- CLEARING AND GRUBBING TO BE LIMITED TO TREE AND BRUSH GROWTH ON THE EXISTING DIKE AND PLUNGE POOL WITHIN THE AREA TO BE EXCAVATED AND REBUILT AS DETAILED IN THE PLANS. ANY MATERIAL GENERATED BY CLEARING AND GRUBBING OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND DISPOSED OF OFF SITE OUTSIDE THE PROJECT LIMITS. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- THE BID ITEM TO "REMOVE DROP STRUCTURE" SHALL BE COMPENSATION IN FULL FOR REMOVAL OF EXISTING OUTLET STRUCTURE IN IT'S ENTIRETY INCLUDING, THE RISER, RISER CONCRETE BASE, TRASH RACK, AND OUTLET PIPE.
- THE BID ITEM FOR "FINE FILTER AGGREGATE" MATERIAL SHALL SATISFY THE REQUIREMENTS OF MNDOT STANDARD SPECIFICATION 3149.2.J.2, FINE FILTER AGGREGATE.
- AGGREGATE DRAIN MATERIAL SHALL SATISFY THE REQUIREMENTS OF MNDOT STANDARD SPECIFICATION 3149.2.J.1, MEDIUM FILTER AGGREGATE. 2- 6" X 14' PVC (SDR 35) SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "2451.607 AGGREGATE DRAIN"
- THE BID ITEM FOR "STRUCTURE EXCAVATION" SHALL SATISFY MNDOT 2451 AND INCLUDE, BUT NOT LIMITED TO, ALL EXCAVATION AND BACKFILL REQUIRED TO REMOVE AND REPLACE THE EXISTING OUTLET STRUCTURE INCLUDING REMOVAL OF ALL AGGREGATE, FILTERS, AND RIPRAP AS DETAILED IN THE CONSTRUCTION PLANS. INSTALLATION OF NEW AGGREGATE FILTERS AND RIPRAP WILL BE PAID FOR UNDER SEPARATE BID ITEMS.

DEWATERING OF THE SITE SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM FOR STRUCTURE EXCAVATION WITH NO DIRECT COMPENSATION MADE. THE EXISTING POOL WILL HAVE TO BE DRAWN DOWN TO A DRY STATE BY PUMPING OR OTHER APPROVED METHODS TO INSTALL THE PROPOSED STRUCTURE. THE VOLUME OF THE POOL AT THE INVERT ELEVATION OF THE EXISTING STRUCTURE IS APPROXIMATELY 5.7 ACRE- FEET (1,860,005 GALLONS). THE WATER SURFACE ELEVATION WAS APPROXIMATELY 6' BELOW THE INVERT OF THE EXISTING STRUCTURE DUE TO THE STRUCTURE BEING IN A FAILING STATE AS OF THE SURVEY PERFORMED SEPTEMBER 2021.

THE ESTIMATED VOLUME OF MATERIAL TO BE INCLUDED AS STRUCTURE EXCAVATION FROM THE EXISTING DIKE TO THE LINES AND GRADES SHOWN IN THE PLANS FOR REMOVAL AND INSTALLATION OF THE NEW STRUCTURE IS APPROXIMATELY 8,633 CUBIC YARDS. INCLUDED IN THIS VOLUME IS AN ESTIMATED 2,950 CUBIC YARDS OF CLAY CORE THAT WILL BE SALVAGED AND REINSTALLED AS THE CLAY CORE.

- THE LUMP SUM BID ITEM FOR "72" CAS RISER STRUCTURE DESIGN SPECIAL" SHALL BE COMPENSATION IN FULL FOR PROVIDING AND CONSTRUCTING THE DROP INLET STRUCTURE AS DETAILED ON SHEET 6 OF THE PLANS AND THE SPECIAL PROVISIONS INCLUDING GRANULAR BEDDING, 48" X 2' CAS PIPE STUB, NON-SHRINK GROUT, CONCRETE BASE, AND REINFORCEMENT. THE TRASH RACK, AND OUTLET PIPE DETAILED SHALL BE PAID UNDER SEPARATE BID ITEM.
- SEE THE SPECIAL PROVISIONS AND CONSTRUCTION DETAILS ON SHEET 6 OF THE PLANS FOR ADDITIONAL INFORMATION.
- SEE THE EROSION AND SEDIMENT CONTROL PLAN ON SHEET 9-11 OF THE PLANS FOR ADDITIONAL INFORMATION.
- RAPID STABILIZATION METHOD 4 TO INCLUDE THE FOLLOWING ESTIMATED QUANTITIES AND APPLICATION RATES:
 - EROSION CONTROL BLANKET CATEGORY 3 = 2320 S.Y.
 - SEED MIXTURE 25-141 = 28 LB (59 LB/ACRE)
 - FERTILIZER TYPE 1, NPK OF 18-1-18 = 96 LB (200 LB/ACRE)
 - SEED MIXTURE 21-112 = 12 LB (25 LB/ACRE)

SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

THE QUANTITY SHOWN IS AN ESTIMATE ONLY. FINAL QUANTITY WILL DEPEND ON THE CONTRACTOR'S OPERATION. NO ADJUSTMENT IN UNIT PRICE WILL BE MADE FOR ANY INCREASE OR DECREASE IN THE FINAL AMOUNT. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP THE DISTURBANCE OF VEGETATED AREAS TO A MINIMUM. ANY AREA DISTURBED BY THE CONTRACTOR THAT WAS DEEMED BY THE ENGINEER TO BE UNNECESSARY FOR THE COMPLETION OF THE PROJECT SHALL RECEIVE RAPID STABILIZATION AT THE CONTRACTOR'S EXPENSE.

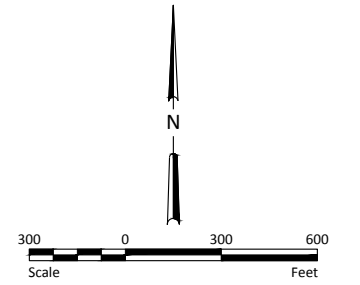
- THE CONTRACTOR SHALL NOT PERFORM CONSTRUCTION OPERATIONS PLACING BACKFILL FOR THE CLAY CORE OF THE DIKE OR AGGREGATE DRAIN AND FILTER MATERIAL FOR THE DIAPHRAGM AS DETAILED IN THE PLANS WITHOUT THE ENGINEER OR THE ASSIGNED REPRESENTATIVE PRESENT TO OBSERVE CONSTRUCTION OPERATIONS AND VERIFY GRADES AND PROPER PLACEMENT OF MATERIALS. ANY MATERIAL PLACED UNOBSERVED SHALL NOT BE APPROVED FOR FINAL PAYMENT.
- THE TIMBER OUTLET SUPPORT AS DETAILED ON SHEET 8 SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "2503.503 48" CAS PIPE SEWER" WITH NO ADDITIONAL PAYMENT MADE THEREOF.
- GEOTEXTILE FABRIC, TYPE III SHALL BE PLACED UNDER ALL RANDOM RIPRAP CLASS II AND CONSIDERED INCIDENTAL TO BID ITEM "RANDOM RIPRAP, CLASS II" WITH NO ADDITIONAL PAYMENT MADE THEREOF.
- GEOTEXTILE FABRIC, TYPE IV SHALL BE PLACED UNDER ALL RANDOM RIPRAP CLASS IV AND CONSIDERED INCIDENTAL TO BID ITEM "RANDOM RIPRAP, CLASS IV" WITH NO ADDITIONAL PAYMENT MADE THEREOF.
- THE BID ITEM "2105.507, COMMON EXCAVATION (EV) (P)" INCLUDES STRIPPING 1' OF TOPSOIL IN BORROW AREA ASSUMED TO BE 1 ACRE. ALSO INCLUDES THE REPLACING AND SHAPING OF TOPSOIL TO DRAIN.
- THE BID ITEM "2105.507, COMMON BORROW (CV) (P)" INCLUDES ADDITIONAL MATERIAL NEEDED TO CONSTRUCT THE 3:1 SLOPE OVER THE OUTLET PIPE. THE BORROW LOCATION SHALL BE WITHIN A 1,000' RADIUS FROM THE STRUCTURE AND THE LOCATION SHALL BE NEGOTIATED BY THE CONTRACTOR WITH THE LANDOWNER. TOPSOIL STRIPPING OF BORROW AREA TO BE PAID FOR BY COMMON EXCAVATION.

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RECORD DRAWING: 11-14-2022

KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY	ESTIMATED QUANTITIES AND CONSTRUCTION NOTES
Drawn By ELH	Checked By TAN
Date 3-1-2022	Scale As Shown
Project No. 3655-0102	SHEET 2

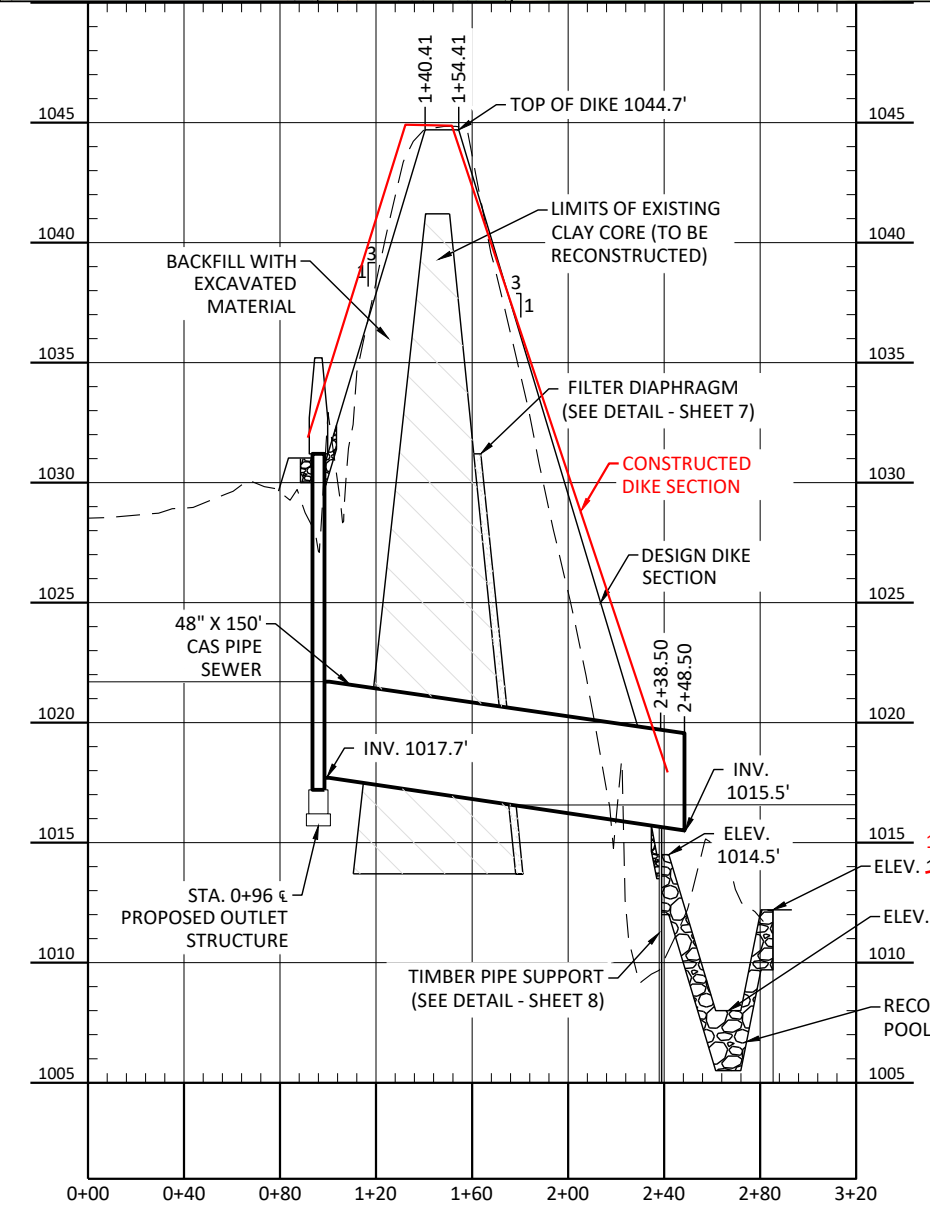
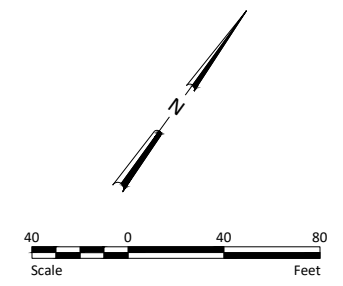
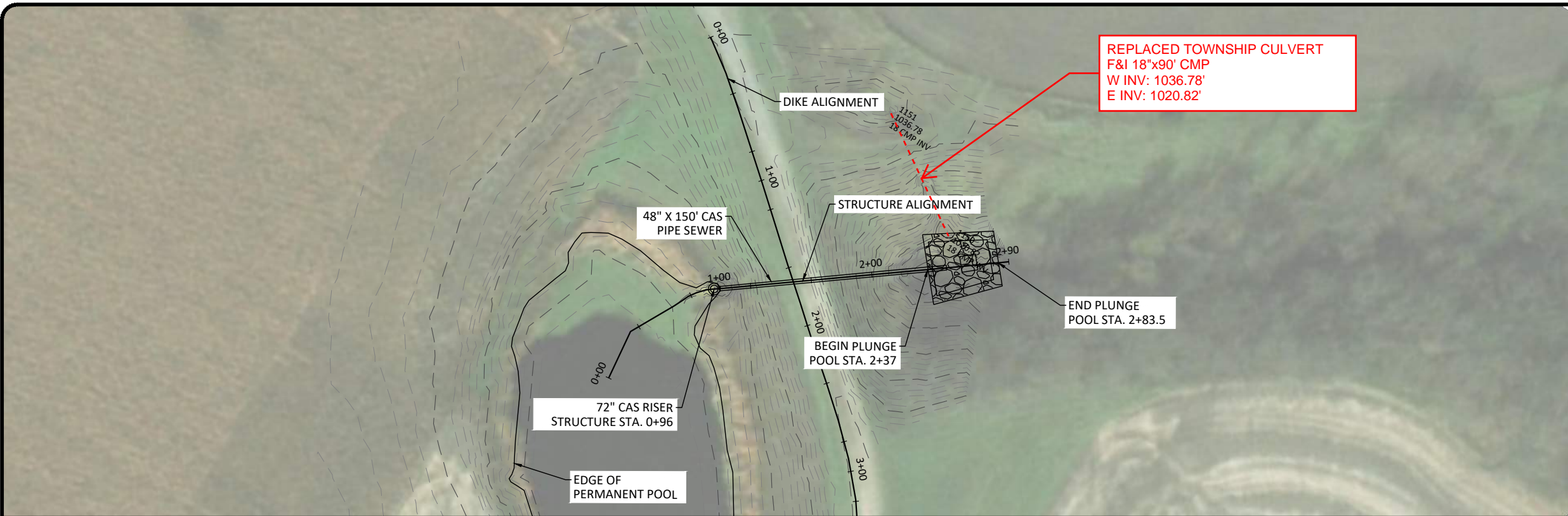
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RECORD DRAWING: 11-14-2022

KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY		No.	Revision	Date	By
LOCATION MAP AND SITE ACCESS					
 Houston Engineering, Inc.		Drawn By	ELH		
		Checked By	TAN		
		Date	3-1-2022		
		Scale	As Shown		
		Project No.	3655-0102		
		SHEET	3		

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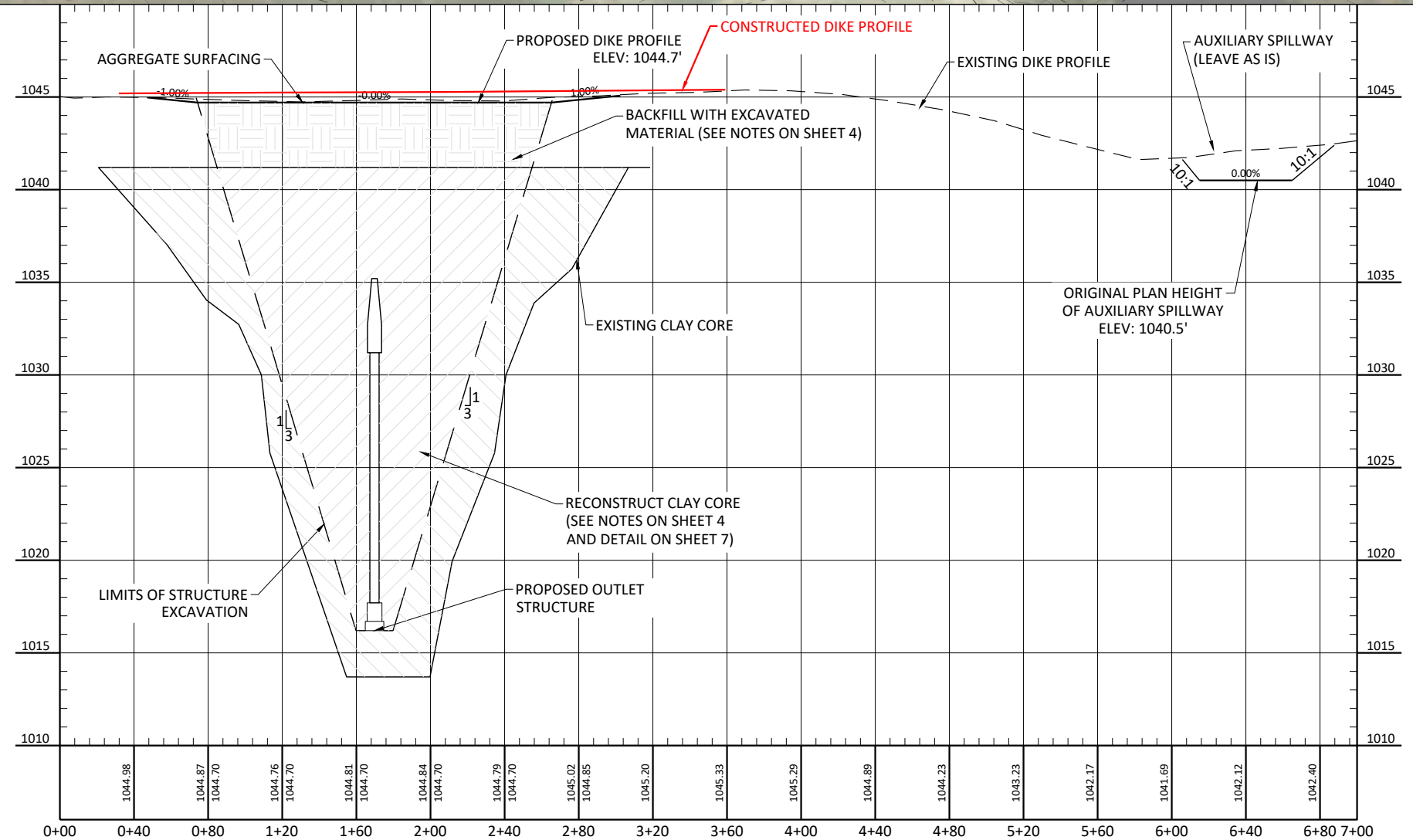
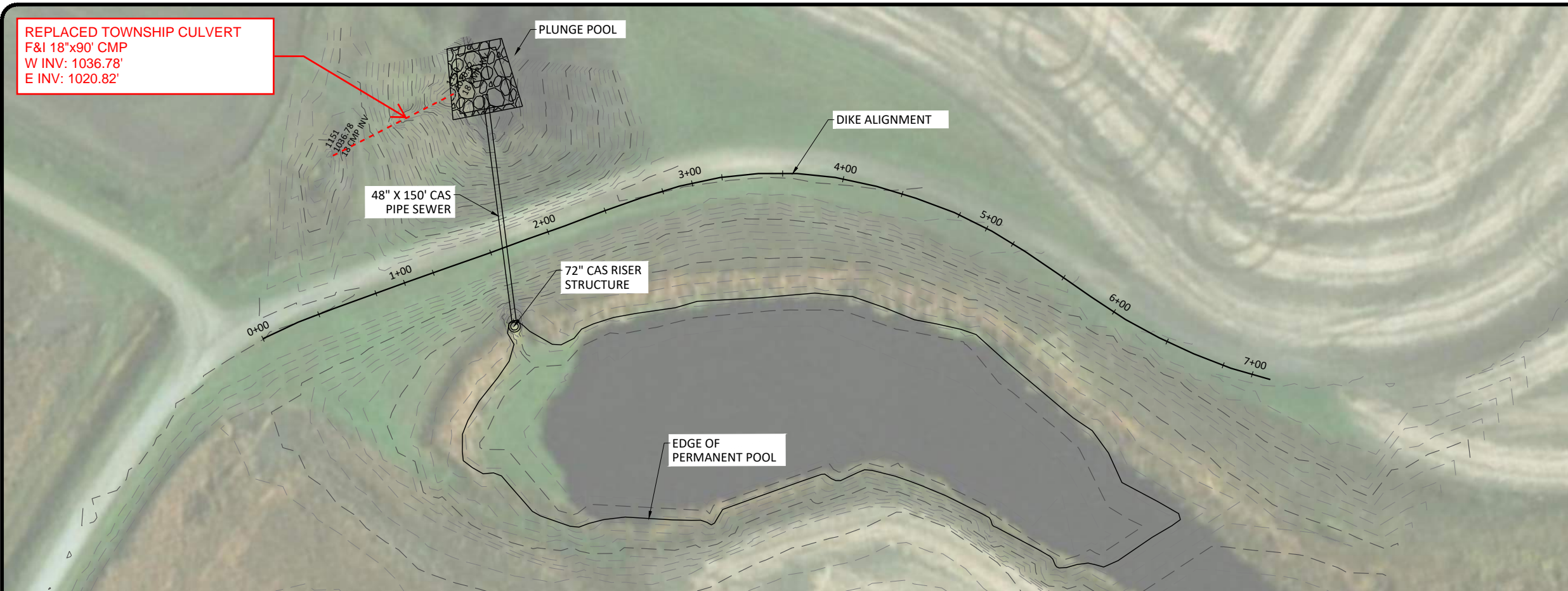
NOTES:
 THE PROPOSED OUTLET STRUCTURE WILL BE INSTALLED IN APPROXIMATELY THE SAME LOCATION AND AT SIMILAR GRADES AS THE EXISTING STRUCTURE THAT IS TO BE REMOVED.

RECONSTRUCTION OF THE CLAY CORE DETAILED IN THE DIKE SECTION FOLLOWING INSTALLATION OF THE STRUCTURE SHALL BE PERFORMED WITH EXCAVATED MATERIAL. DURING THE STRUCTURE EXCAVATION PROCESS, THE CONTRACTOR SHALL SEPARATE THE EXISTING CLAY MATERIAL FOR REUSE TO REBUILD THE CLAY CORE AS SHOWN IN THE PLANS. RECONSTRUCTION OF THE REMAINDER OF THE DIKE SHALL BE DONE WITH RANDOM EXCAVATED MATERIAL THAT IS OUTSIDE THE EXISTING CLAY CORE AND COMMON BORROW TO CONSTRUCT THE 3:1 EXTERIOR SLOPE. COMPENSATION FOR CONSTRUCTION AND COMPACTION OF THE DIKE SHALL BE THRU THE BID ITEM STRUCTURE EXCAVATION AND COMMON BORROW (CV) (P).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY FIELD PERSONNEL. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.
RECORD DRAWING: 11-14-2022

By	
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KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY STRUCTURE PLAN AND PROFILE	
Drawn By	ELH
Checked By	TAN
Date	3-1-2022
Scale	As Shown
Project No.	3655-0102
SHEET	
4	

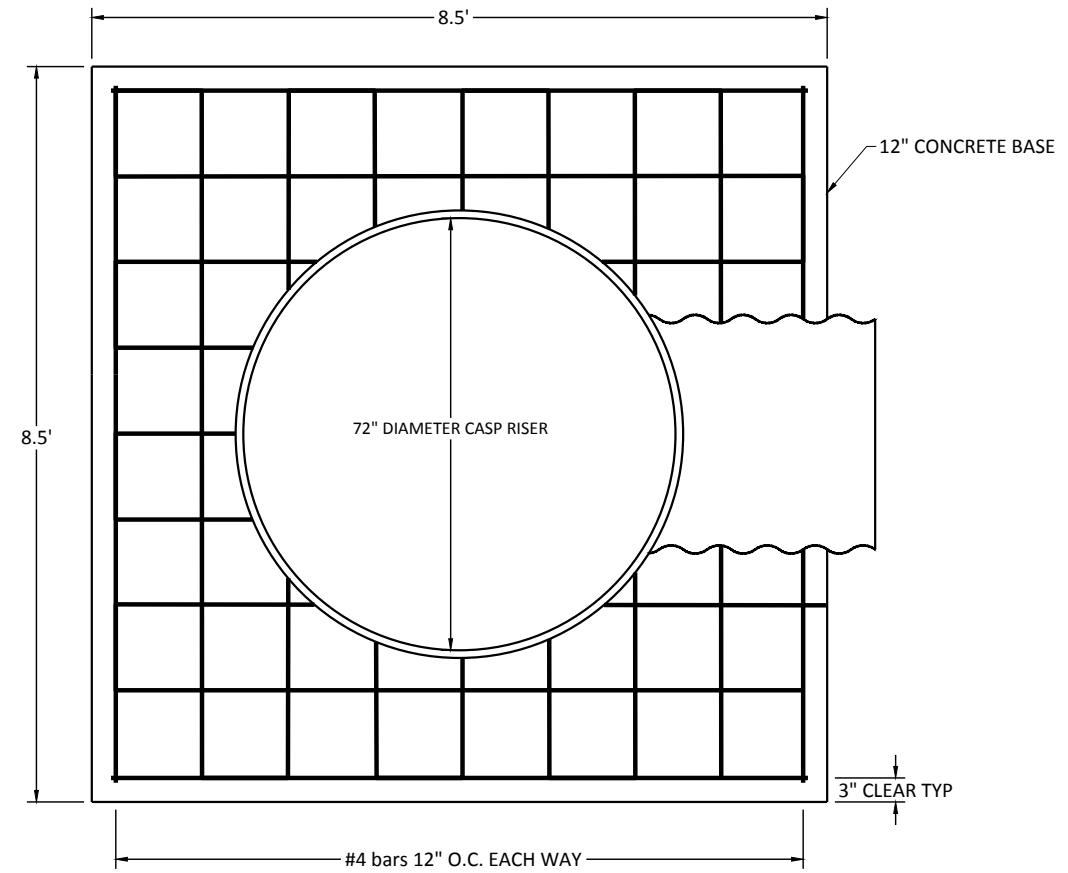
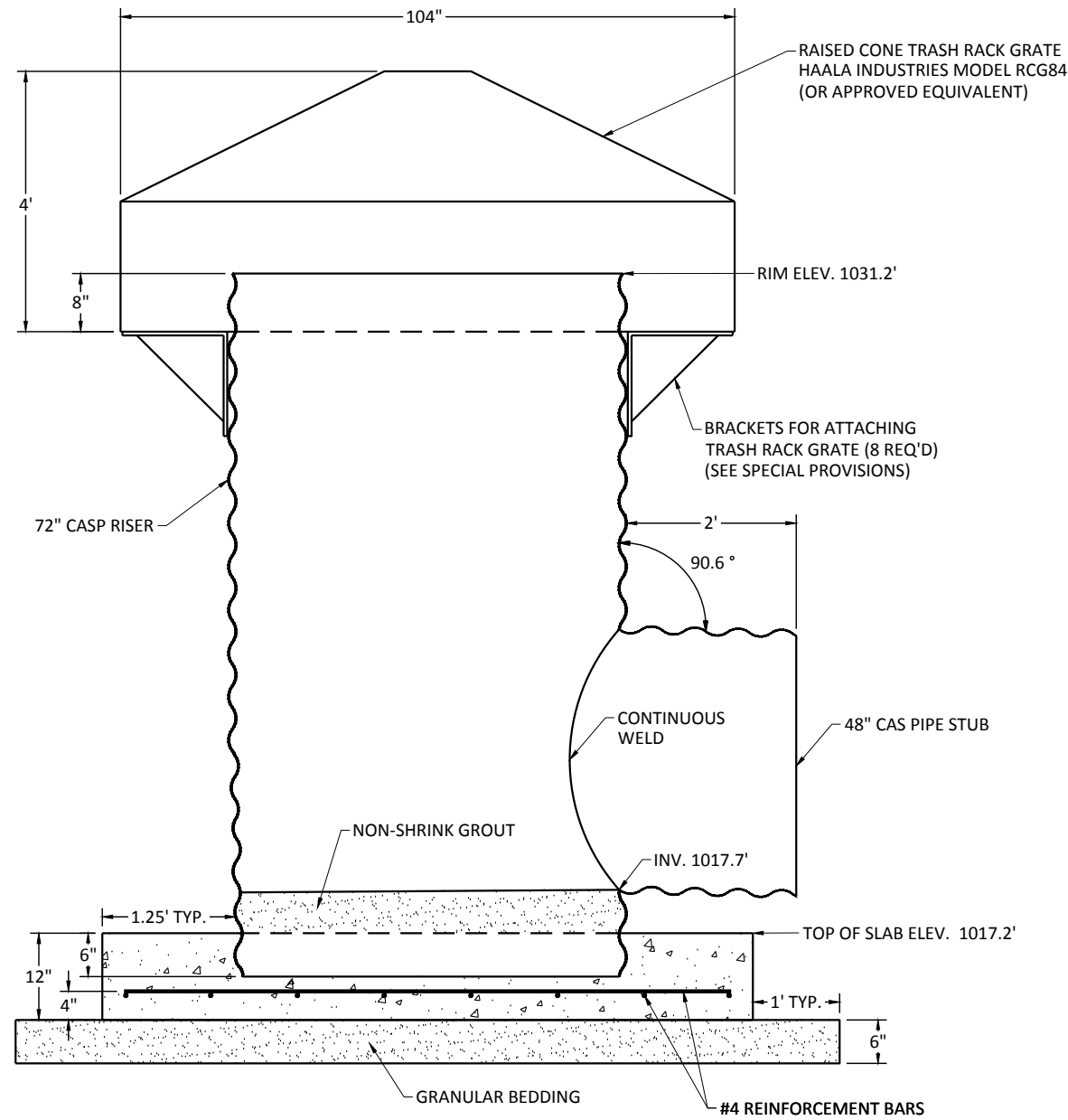
REPLACED TOWNSHIP CULVERT
 F&I 18"x90' CMP
 W INV: 1036.78'
 E INV: 1020.82'



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RECORD DRAWING: 11-14-2022

Knutson Dam Structure Replacement Red Lake Watershed District Red Lake Falls Twp., Red Lake County	
DIKE PLAN AND PROFILE	
Drawn By	ELH
Checked By	TAN
Date	3-1-2022
Scale	As Shown
Project No.	3655-0102
SHEET	
5	
No.	Revision
Date	By



① OUTLET STRUCTURE RISER DETAIL
NOT TO SCALE

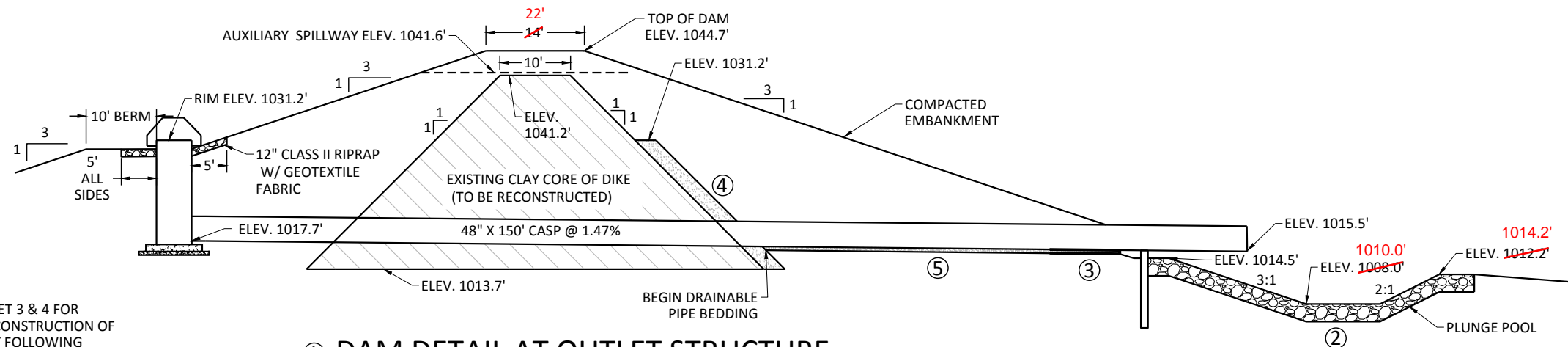
NOTES:

1. ALL COST ASSOCIATED WITH CONSTRUCTING THE RISER STRUCTURE AS DETAILED INCLUDING, BUT NOT LIMITED TO, THE CONCRETE BASE, REINFORCEMENT, GRANULAR BEDDING, 48" X 2' CAS PIPE STUB, GROUT, OR ANY OTHER ATTACHED APPURTENANCES SHALL BE INCLUDED IN THE LUMP SUM BID ITEM FOR "72" CAS RISER STRUCTURE, DESIGN SPECIAL". THE TRASH RACK SHOWN WILL BE PAID UNDER A SEPARATE BID ITEM.
2. SEE THE SPECIAL PROVISIONS FOR GAUGE AND MATERIAL REQUIREMENTS FOR THE CASP RISER, TRASH RACK, AND ATTACHMENT BRACKETS.
3. ALL COSTS ASSOCIATED WITH ANY REQUIRED EXCAVATION AND EMBANKMENT TO INSTALL THE STRUCTURE AND OUTLET PIPES AS DETAILED IN THE PLANS SHALL BE INCLUDED IN THE LUMP SUM BID ITEM FOR "STRUCTURE EXCAVATION".

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RECORD DRAWING: 11-14-2022

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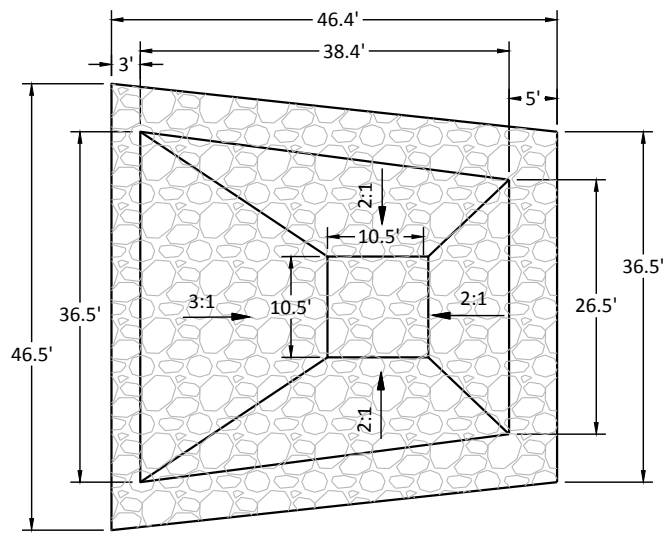
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	Date
	Revision
	No.
KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY CONSTRUCTION DETAILS	
 HOUSTON <small>engineering, inc.</small>	
Drawn By ELH	
Checked By TAN	
Date 3-1-2022	
Scale As Shown	
Project No. 3655-0102	
SHEET 6	



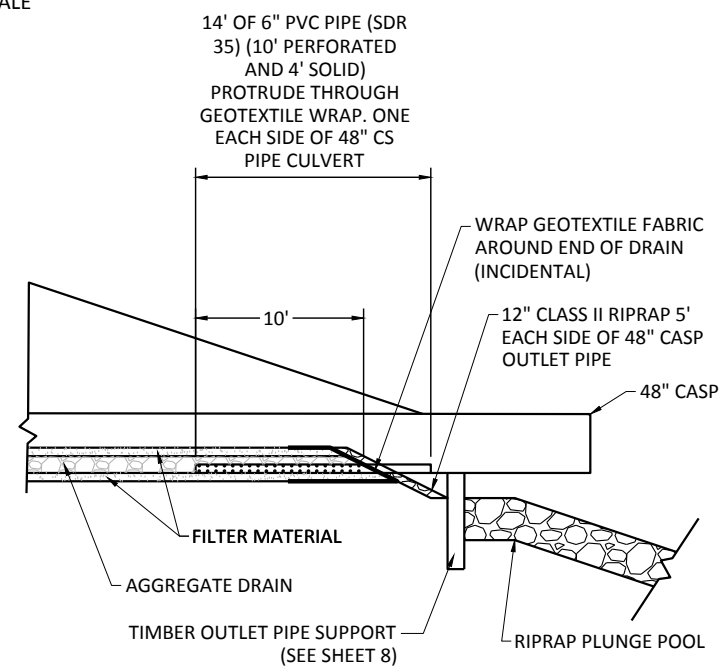
NOTES:
SEE CONSTRUCTION NOTES ON SHEET 3 & 4 FOR
ADDITIONAL INFORMATION ON RECONSTRUCTION OF
THE CLAY CORE AND EMBANKMENT FOLLOWING
CONSTRUCTION OF THE PROPOSED OUTLET
STRUCTURE.

① DAM DETAIL AT OUTLET STRUCTURE

NOT TO SCALE

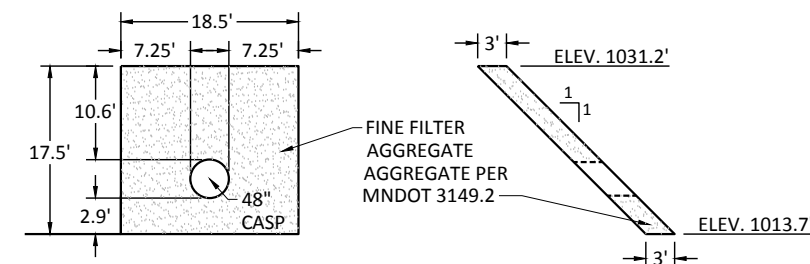


PLAN



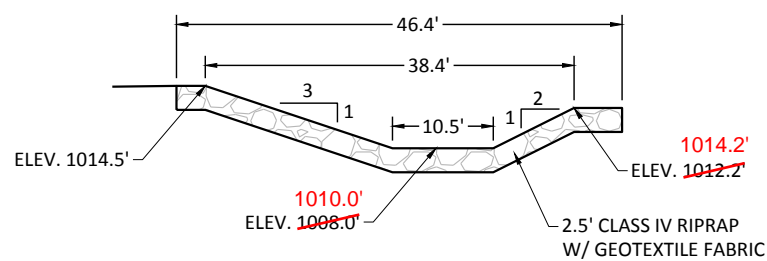
③ DRAIN FILTER OUTLET DETAIL

NOT TO SCALE



④ CONDUIT DRAIN FILTER DIAPHRAGM DETAIL

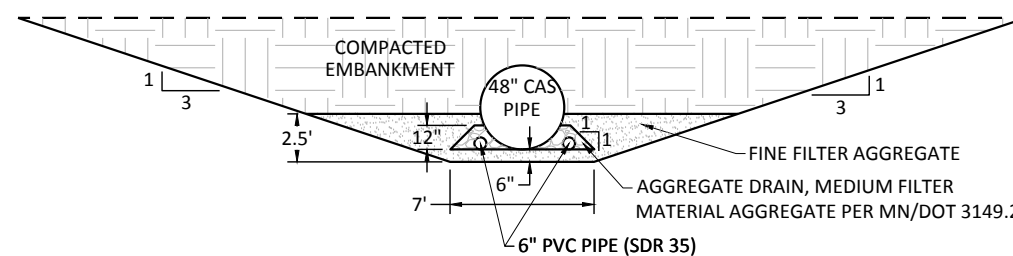
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ELEVATION

② PLUNGE POOL DETAIL

NOT TO SCALE



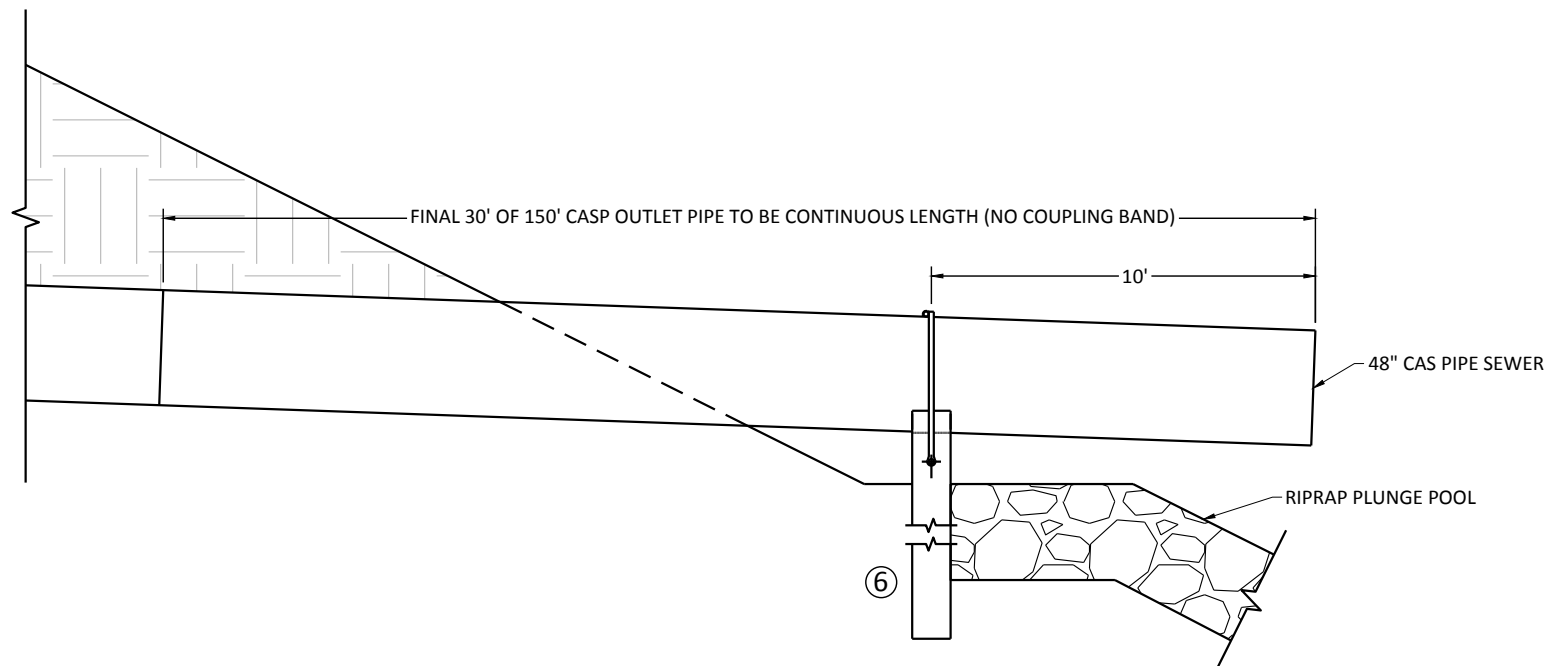
⑤ TYPICAL PIPE BACKFILL W/ DRAIN SECTION

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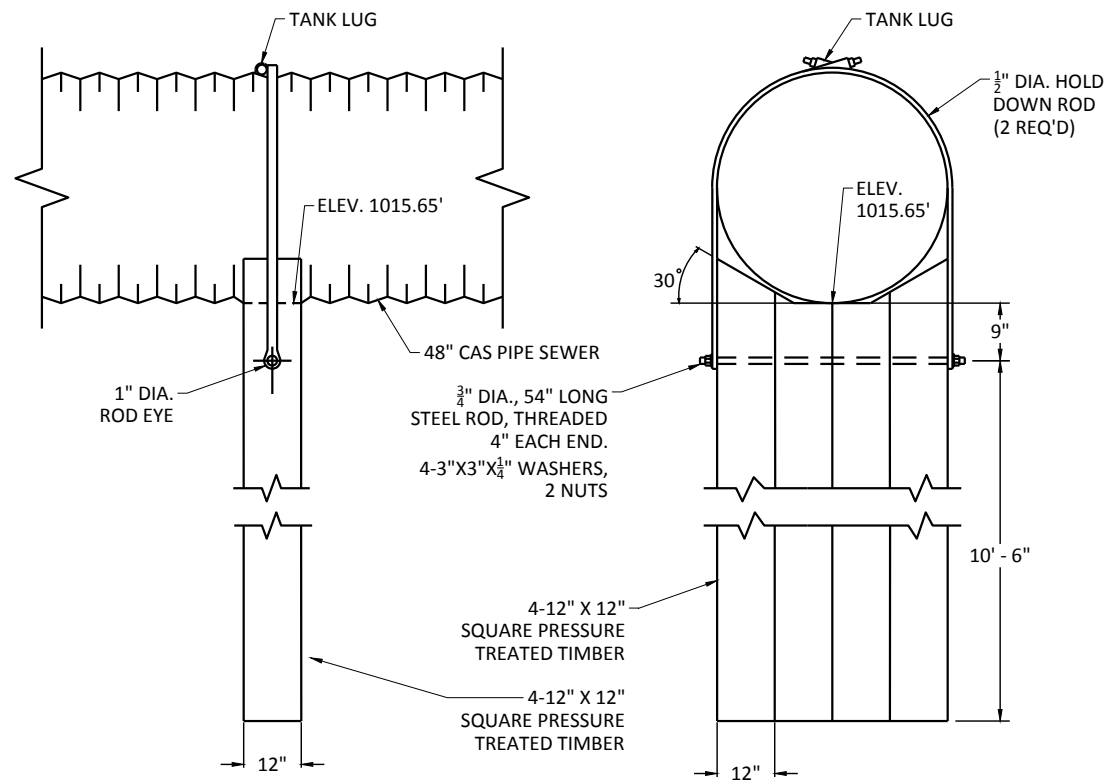
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Revision	
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KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY CONSTRUCTION DETAILS	
Drawn By	ELH
Checked By	TAN
Date	3-1-2022
Scale	As Shown
Project No.	3655-0102
SHEET	7

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RECORD DRAWING: 11-14-2022



TIMBER OUTLET PIPE SUPPORT DETAIL
NOT TO SCALE



6 TIMBER OUTLET PIPE SUPPORT DETAIL
NOT TO SCALE


PIPE DIA. (IN)	ROD LENGTH (IN)
36	65
42	72
48	80

HOLD DOWN ROD
DIMENSIONS

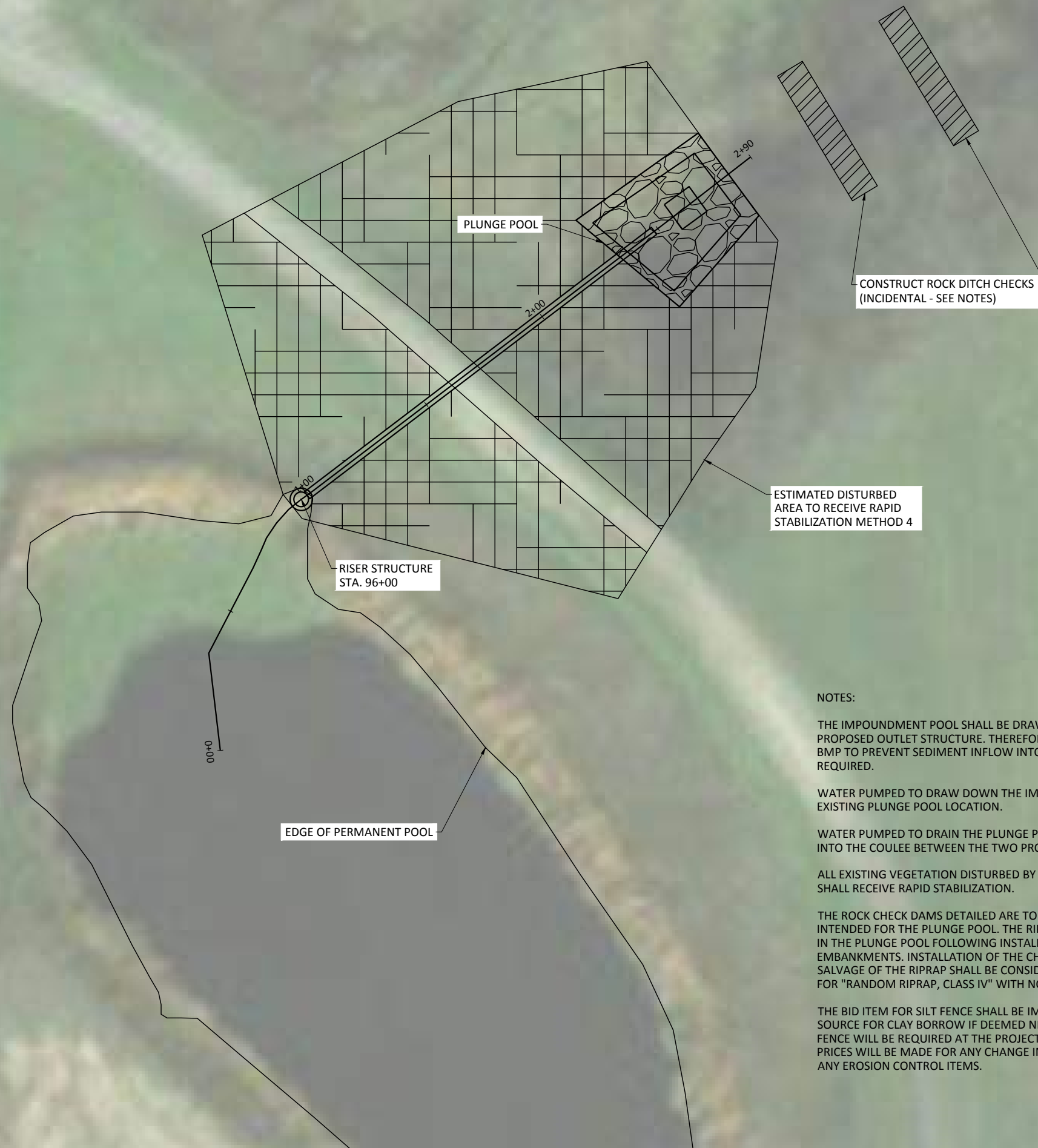
- NOTES:
1. TIMBER PILES SHALL BE 12" X 12"
 2. ALL WOOD SHALL BE TREATED PER MNDOT SPEC. 3491.
 3. ALL HARDWOOD TO BE GALVANIZED PER MNDOT SPEC. 3392.
 4. THE TIMBER OUTLET SUPPORT AS DETAILED SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "2501.503 48" CAS PIPE CULVERT" WITH NO ADDITIONAL PAYMENT MADE THEREOF.

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RECORD DRAWING: 11-14-2022

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By	
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Revision	
No.	
KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY CONSTRUCTION DETAILS	
 Houston Engineering, Inc.	
Drawn By	ELH
Checked By	TAN
Date	3-1-2022
Scale	As Shown
Project No.	3655-0102
SHEET	8

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NOTES:

THE IMPOUNDMENT POOL SHALL BE DRAWN DOWN TO CONSTRUCT THE PROPOSED OUTLET STRUCTURE. THEREFORE FLOATING SILT CURTAIN OR OTHER BMP TO PREVENT SEDIMENT INFLOW INTO THE WATERBODY WILL NOT BE REQUIRED.

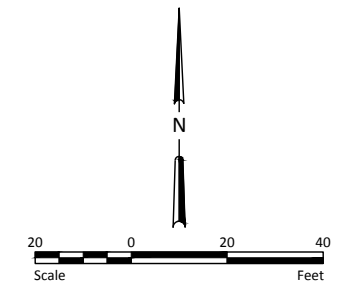
WATER PUMPED TO DRAW DOWN THE IMPOUNDMENT SHALL GO TO THE EXISTING PLUNGE POOL LOCATION.

WATER PUMPED TO DRAIN THE PLUNGE POOL LOCATION SHALL BE PUMPED INTO THE COULEE BETWEEN THE TWO PROPOSED ROCK CHECK DAMS.

ALL EXISTING VEGETATION DISTURBED BY THE CONTRACTORS OPERATIONS SHALL RECEIVE RAPID STABILIZATION.

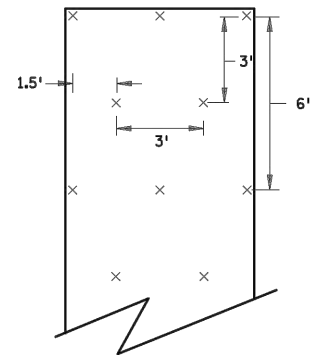
THE ROCK CHECK DAMS DETAILED ARE TO BE CONSTRUCTED FROM RIPRAP INTENDED FOR THE PLUNGE POOL. THE RIPRAP SHALL BE SALVAGED AND USED IN THE PLUNGE POOL FOLLOWING INSTALLATION OF THE STRUCTURE AND ALL EMBANKMENTS. INSTALLATION OF THE CHECK DAMS AND REMOVAL AND SALVAGE OF THE RIPRAP SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM FOR "RANDOM RIPRAP, CLASS IV" WITH NO DIRECT COMPENSATION MADE.

THE BID ITEM FOR SILT FENCE SHALL BE IMPLEMENTED AT THE CONTRACTOR'S SOURCE FOR CLAY BORROW IF DEEMED NECESSARY BY THE ENGINEER. NO SILT FENCE WILL BE REQUIRED AT THE PROJECT SITE. NO ADJUSTMENT IN UNIT PRICES WILL BE MADE FOR ANY CHANGE IN FINAL QUANTITY OR DELETION OF ANY EROSION CONTROL ITEMS.

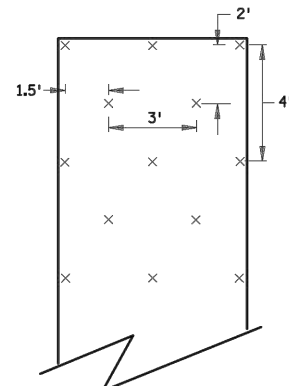


Knutson Dam Structure Replacement Red Lake Watershed District Red Lake Falls Twp., Red Lake County		No.	Revision	Date	By
EROSION AND SEDIMENT CONTROL PLAN					
 HOUSTON <small>engineering, inc.</small>		Drawn By	ELH	Checked By	TAN
		Date	3-1-2022	Scale	As Shown
		Project No.	3655-0102	SHEET	
				9	

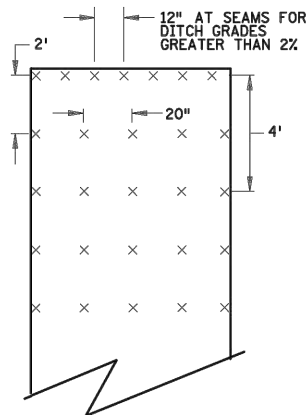
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY FIELD PERSONNEL. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.
RECORD DRAWING: 11-14-2022



SLOPES FLATTER THAN 1:2
120 STAPLES PER 100 SQ YD

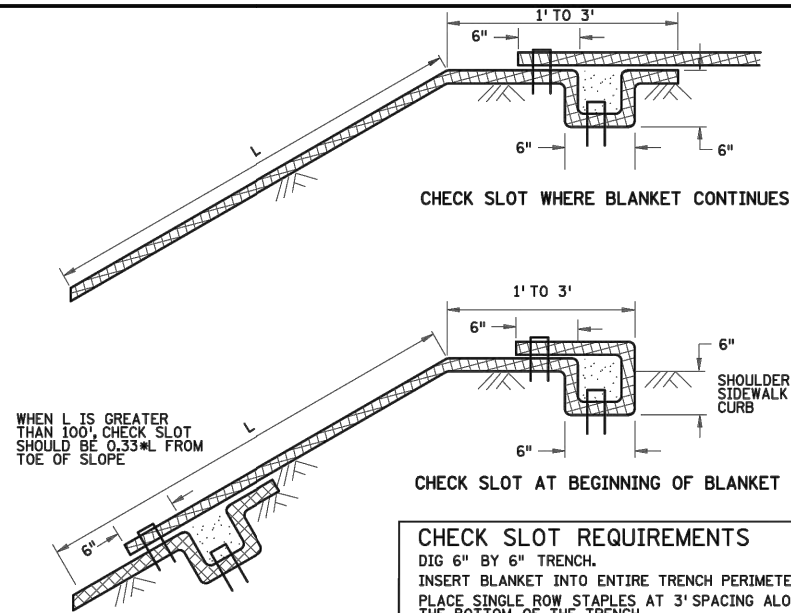


SLOPES 1:2 TO 1:1
170 STAPLES PER 100 SQ YD



CHANNEL AND DITCH APPLICATIONS
350 STAPLES PER 100 SQ YD

BLANKET STAPLE PATTERN

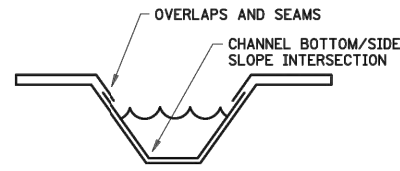
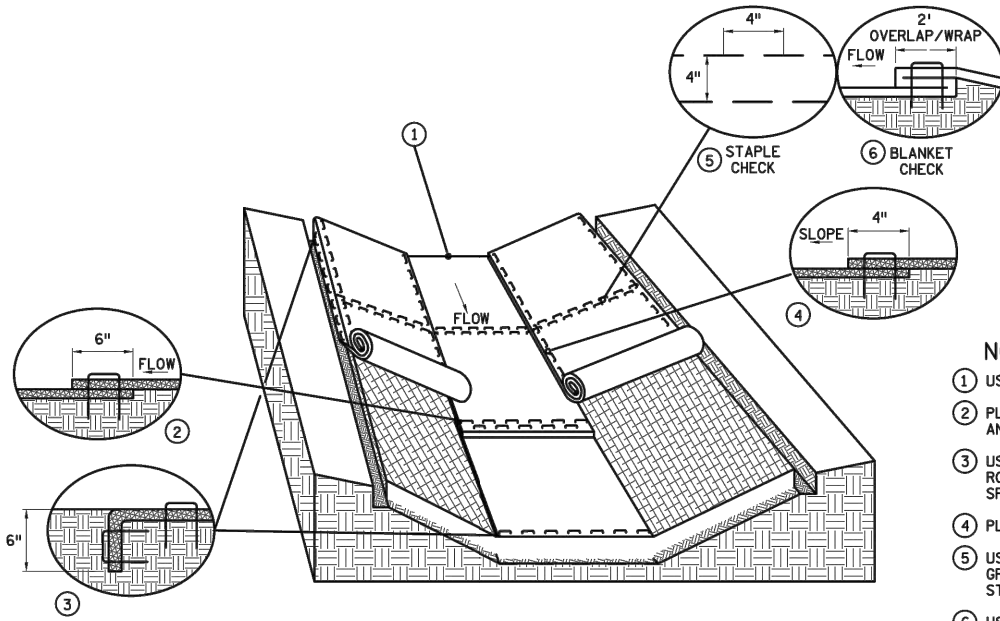


CHECK SLOT REQUIREMENTS
DIG 6" BY 6" TRENCH.
INSERT BLANKET INTO ENTIRE TRENCH PERIMETER.
PLACE SINGLE ROW STAPLES AT 3' SPACING ALONG THE BOTTOM OF THE TRENCH.
BACKFILL TRENCH WITH SOIL AND TAMP.
PLACE SINGLE ROW STAPLES AT 3' SPACING ON OVERLAP.

CHECK SLOT ALTERNATIVE
PLACE SINGLE ROW STAPLES AT 12" SPACING

BLANKET OVERLAP
PLACE SINGLE ROW STAPLES AT 12" SPACING

GENERAL BLANKET INSTALLATION REQUIREMENTS
REPP = ROLLED EROSION PREVENTION PRODUCT.
PREPARE SOIL AS PER SPECIFICATION 2574.
LAY PARALLEL OR PERPENDICULAR TO THE DIRECTION OF WATER FLOW.
OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4".
OVERLAP BLANKET 6" (MINIMUM) AT EACH END. OVERLAP BOTTOM END OF UPPER BLANKET OVER TOP END OF LOWER BLANKET. STAPLE ALONG OVERLAP EVERY 1.5'.
THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100' OR GREATER, INSERT BLANKET INTO A CHECK SLOT 1/3 FROM THE BOTTOM OF THE SLOPE.



DITCH BLANKET CRITICAL POINTS ⑦

- NOTES:**
- ① USE CHECK SLOT DETAIL (NO ALTERNATES).
 - ② PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER.
 - ③ USE 6" X 6" TRENCH TO PLACE BLANKET. PLACE SINGLE ROW OF STAPLES ON TOP AND TRENCH SIDES AT 12" SPACING. BACKFILL TRENCH WITH SOIL AND TAMP.
 - ④ PLACE SINGLE ROW OF STAPLES AT 12" SPACING.
 - ⑤ USE STAPLE CHECK FOR CHANNEL SLOPES LESS THAN 2.5% GRADE AT 100' INTERVALS. PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND AT 4" SPACING.
 - ⑥ USE BLANKET CHECKS FOR THE FOLLOWING SLOPES:
2.5%-3% 100' INTERVALS
3%-5% 50' INTERVALS
5%-7% 25' INTERVALS
 - ⑦ CRITICAL POINTS SHALL BE SECURED WITH PROPER STAPLE PATTERNS.

DITCH BLANKET STAPLE DETAIL

REVISION:
APPROVED: JANUARY 8, 2020 <i>Marek Karnowski</i> MAREK KARNOWSKI CHIEF ENVIRONMENTAL OFFICER

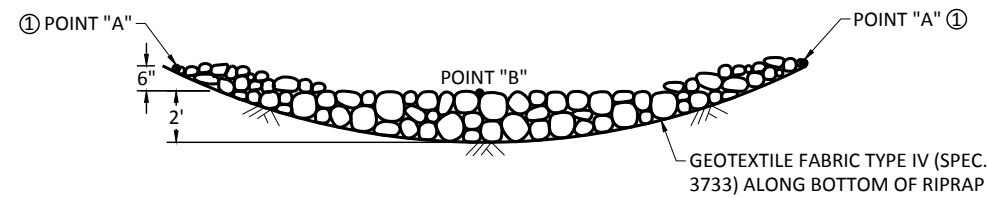
	STANDARD PLAN 5-297.404	3 OF 3
	 THOMAS TYBICKI STATE DESIGN ENGINEER	APPROVED: 1-8-2020 REVISED:

PERMANENT EROSION CONTROL		
REPP (BLANKET) STAPLE PATTERN FOR SLOPES		
STATE PROJ. NO.	(T.H.)	SHEET NO. OF SHEETS

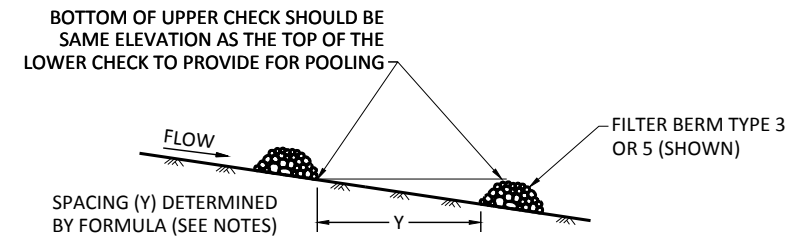
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RECORD DRAWING: 11-14-2022

H:\JBM\3600\3655\3655-0102 Knutson Dam Structure Replacement\CAD\Plans\EROSION CONTROL.dwg-Layouts-2/28/2022 1:03 PM--(kukowski)

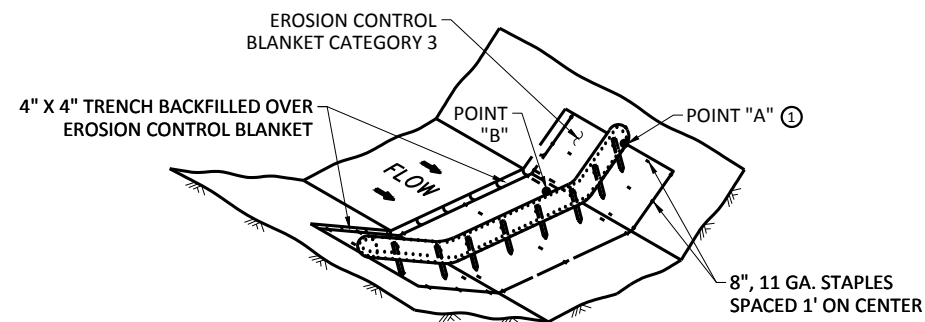
By	
Date	
Revision	
No.	
KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY EROSION AND SEDIMENT CONTROL PLAN	
Drawn By	ELH
Checked By	TAN
Date	3-1-2022
Scale	As Shown
Project No.	3655-0102
SHEET	10



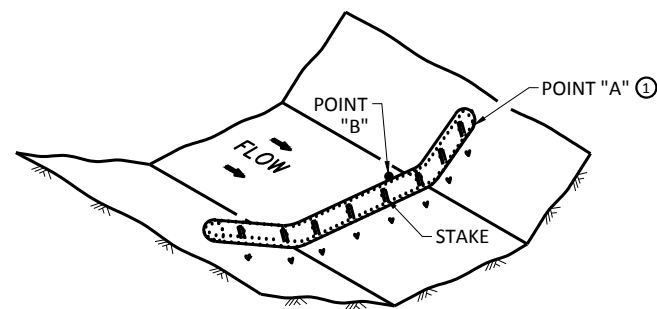
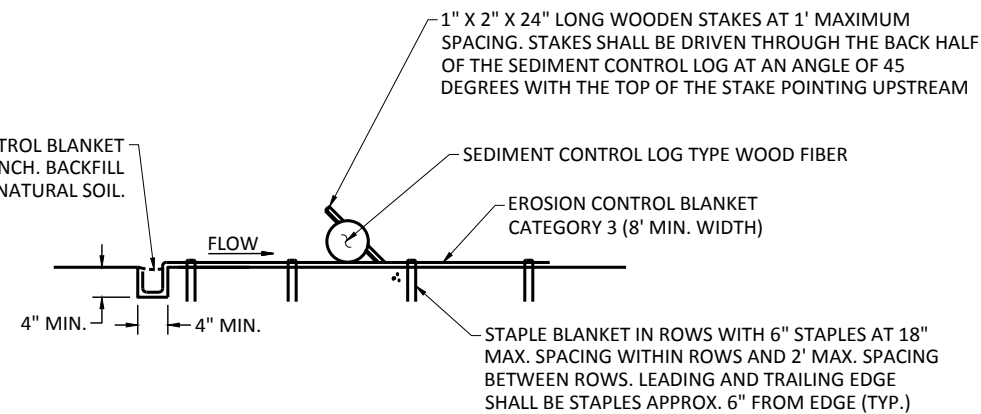
ROCK DITCH CHECKS
 FILTER BERMS TYPE 3 (ROCK WEEPER) OR FILTER TYPE 5 (ROCK) ② ③
 (FOR USE ON ROUGH GRADED AREAS)



DITCH CHECK SPACING
 (FOR ALL FILTER BERM TYPES)



SEDIMENT CONTROL LOG TYPE BLANKET SYSTEM ④



SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST ⑤
 (FOR USE ON ROUGH GRADED AREAS)

NOTES:

SEE SPECS. 2573, 3601, 3733, 3886, & 3889.

FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH THE ENDS FACING UPSTREAM.

APPROXIMATE SPACE BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:

$$\text{APPROXIMATE SPACING OF DITCH CHECKS (FT.)} = Y = \frac{\text{DITCH CHECK HEIGHT (FT)}}{\% \text{CHANNEL SLOPE}} \times 100$$

- ① POINT "A" MUST BE A MINIMUM OF 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
- ② PERMANENT ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT. A 6:1 APPROACH AND DEPARTURE SLOPES SHALL BE PROVIDED.
- ③ DITCH GRADE 3% - 5% MAX. FLOW VELOCITY 12 FT./SEC.
- ④ DITCH GRADE 1.5% - 3% MAX. FLOW VELOCITY 4.5 FT./SEC.
- ⑤ DITCH GRAD 1.5% - 3% MAX. FLOW VELOCITY 1.5 FT./SEC.

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 RECORD DRAWING: 11-14-2022

H:\JBM\3600\3655\3655-0102_Knutson Dam Structure Replacement\CAD\Plans\EROSION CONTROL.dwg-Layout2-2/28/2022 1:04 PM-(kukowski)

By	
Date	
Revision	
No.	
KNUTSON DAM STRUCTURE REPLACEMENT RED LAKE WATERSHED DISTRICT RED LAKE FALLS TWP., RED LAKE COUNTY EROSION AND SEDIMENT CONTROL PLAN	
Drawn By	ELH
Checked By	TAN
Date	3-1-2022
Scale	As Shown
Project No.	3655-0102
SHEET	11



APPENDIX B

Change Orders





CHANGE ORDER NO. 1

125 3rd Street E
Thief River Falls, MN 56701
P: 218.681.2951 F: 218.681.2987

Project Name: Knutson Dam Structure Replacement

Contract dated: May 16, 2022

Owner: Red Lake Watershed District

To: Taggart Contracting, Inc.
P.O. Box 726
Thief River Falls, MN 56701

HEI Project No. 3655-0102

This change is requested by Owner and made under the terms of or is supplemental to your present contract.

Description of Change:

Due to material supply delays by the supplier as referenced in the attached letter, the Red Lake Watershed District board has agreed to modify Article 4 of the "Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)" as follows: Article 4.02 "Contract Times: Dates" shall be modified for the project to be completed and ready for final payment November 2, 2022 or before, which is 30 consecutive days after the delivery date of the materials. All language in the "Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)" document referencing a substantial or final completion date shall use the November 2, 2022 date and all other language in the agreement shall still apply.

Original Contract Amount: \$150,638.00

Prior Change Orders:
This Change Order:

Total Contract Amount after this Change Order: \$150,638.00

Approved: Meyron Ja
(Owner)

Date: 10-5-22

Approved: Jonny A. Noddy
(Engineer)

Date: 10/3/2022

Approved: [Signature]
(Contractor)

Date: 10-3-2022



1522 40th Street North
Fargo, ND 58102
Phone: 701.282.0810
Fax: 701.281.1883

August 05, 2022

To: Troy Taggart
Taggart Construction
Re: Knutson Dam Structure - Material Production Completion

Troy –

This letter is to inform you of the delays we have experienced in delivering the Aluminized Structure and Trash Rack for the Knutson Dam Project. Bid letting for this project was 4/14/2022.

The main reason for delay is we had a sales support turn over in May – it appears that the order received was not entered during this employee turn over and resulted in delay of entering into the schedule. When you inquired about the status in July, we realized that the order was not in the system. We have pushed hard to reduce lead time.

As of today, we will run the pipe needed for this structure/project mid-September. We will have the structure fabricated, trash rack and pipe available by the last week of September.

I apologize for the delays. I assure you we are doing all we can to expedite the delivery of this structure.

I will be in contact to follow up with updates. Please let me know if you have any questions or would like to discuss further.

Thank You,

Chad Veitenheimer
Territory Sales Manager
TrueNorth Steel – Drainage and Modular Bridge
701-371-9980 Cell



CHANGE ORDER NO. 2

125 3rd Street E
 Thief River Falls, MN 56701
 P: 218.681.2951 F: 218.681.2987

Project Name: Knutson Dam Structure Replacement

Contract dated: May 16, 2022

Owner: Red Lake Watershed District

To: Taggart Contracting, Inc.
 P.O. Box 726
 Thief River Falls, MN 56701

HEI Project No. 3655-0102

This change is requested by Owner and made under the terms of or is supplemental to your present contract.

Description of Change:

During construction, an 18" x 80' failing CSP was observed for replacement within the road ditch of 260th St. SE that allows flow through a field crossing directly into the projects constructed plunge pool.

Item 2501.601, "18" CS Pipe Culvert", this item accounts for replacing an existing 18" CSP with a 18" x 90' CSP. This shall include all work and equipment required for excavation to remove the existing culvert, furnish and install the new culvert, band the joints of the culvert, backfill, and turf restoration of the disturb area. All work shall be performed in accordance with MnDOT 2501, MnDOT 2451, MnDOT 2575 and shall include all excavating, installing, banding, backfilling, compacting, and turf establishment as determined in the field by the Engineer.

Item 2501.601, "18" CS Pipe Culvert", shall be paid for by the Lineal Foot basis. All costs associated with completing the work including, but not limited to, excavating, removing, installing, banding, backfilling, compacting of backfill material, and turf establishment shall be included in the unit price for Item 2501.601, "18" CS Pipe Culvert", and no additional compensation will be considered thereof.

Adjust and/or change the following quantities to match the installed quantities:

Item No.	Description	Unit	Orig. or Prev. Changed Qty.	Qty. Change this CO + or -	Unit Price	Amount of Increase / (Decrease)
2501.601	18" CS Pipe Culvert	Lin. Ft.		90	\$ 78.00	\$ 7,020.00
Net Increase / (Decrease) this Change Order:						\$7,020.00

Quantities shown are not necessarily pay quantities and are subject to change.

Original Contract Amount: \$150,638.00

Prior Change Orders:

This Change Order: \$7,020.00

Total Contract Amount after this Change Order: \$157,658.00

Approved:
 (Owner)

Date: 10-27-22

Approved:
 (Engineer)

Date: 10/19/2022

Approved:
 (Contractor)

Date: 10-21-2022



APPENDIX C

Final Payment Report



FINAL PAYMENT

Client Project No.

HEI Project No.

3655-0102

PAYMENT NUMBER: 2

Project: Knutson Dam Structure Replacement

PERIOD OF ESTIMATE:

Location: Section 35, Red Lake Falls Twp., Red Lake County

FROM **10/22/2022** TO **11/2/2022**

CONTRACT CHANGE ORDER SUMMARY

ESTIMATE

Change Order		AMOUNT	
NO.	DATE	ADDITIONS	DEDUCTIONS
1	10/03/22	\$0.00	
2	10/19/22	\$7,020.00	
TOTALS		\$ 7,020.00	\$ -
NET CHANGE		\$ 7,020.00	

1. Original Contract	\$	150,638.00
2. Change Orders	\$	7,020.00
3. Revised Contract (1+2)	\$	157,658.00
4. Work Completed*	\$	155,828.00
5. Stored Materials*	\$	-
6. Adjustments*	\$	-
7. Subtotal (4+5+6)	\$	155,828.00
8. Retainage 0.00%	\$	-
9. Previous Payments	\$	134,166.60
10. Amount Due (7-8-9)	\$	21,661.40

*Detailed Breakdown Attached if Non-Zero Value

CONTRACT TIME

Completion Date Contract

Original (days)

N/A

On Schedule? Yes

Starting Date: 10/3/2022

Revised

N/A

Remaining

N/A

Final Completion: 11/2/2022

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies, to the best of his/her knowledge, the following:

- (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
- (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and
- (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor:

Taggart Contracting, Inc.

By:

[Signature]

Date:

11-17-2022

ENGINEER'S RECOMMENDATION:

I have reviewed the progress of the work, and to the best of my knowledge, information and belief, in accordance with the terms of the Contract, the Contractor is entitled to a partial payment in the amount requested.

HOUSTON
engineering, inc.

Engineer:

By:

[Signature]
Tony Nordby

Date:

11/8/2022

OWNER'S APPROVAL:

Owner:

Red Lake Watershed District

By:

[Signature]

Date:

11-18-22

REMIT PAYMENT TO:

Taggart Contracting, Inc.
P.O. Box 726
Thief River Falls, MN 56701



Client Project No.
 HEI Project No. 3655-0102
 Project: *Knutson Dam Structure Replacement*
 Location: *Section 35, Red Lake Falls Twp., Red Lake County*
 Contractor: *Taggart Contracting, Inc.*

PAY ESTIMATE

PAY ESTIMATE #:	2
SUBMITTED:	11/10/2022
BEGIN DATE:	10/22/2022
END DATE:	11/2/2022

ITEM NO.	DESCRIPTION	UNIT	CONTRACT			CURRENT PAY ESTIMATE		PREVIOUS PAY ESTIMATES		PAY ESTIMATES TO DATE				
			QUANTITY	PRICE	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT			
Original Contract Items														
2021.501	MOBILIZATION	LUMP SUM	1.	\$ 2,000.00	\$ 2,000.00		\$ -	1.	\$ 2,000.00	1.	\$ 2,000.00			
2101.511	CLEARING & GRUBBING	LUMP SUM	1.	\$ 2,000.00	\$ 2,000.00		\$ -	1.	\$ 2,000.00	1.	\$ 2,000.00			
2104.502	REMOVE DROP STRUCTURE	EACH	1.	\$ 2,000.00	\$ 2,000.00		\$ -	1.	\$ 2,000.00	1.	\$ 2,000.00			
2105.507	COMMON EXCAVATION (EV) (P)	CU. YD.	1,613.	\$ 5.00	\$ 8,065.00		\$ -	1,613.	\$ 8,065.00	1,613.	\$ 8,065.00			
2105.507	COMMON BORROW (CV) (P)	CU. YD.	870.	\$ 10.00	\$ 8,700.00		\$ -	870.	\$ 8,700.00	870.	\$ 8,700.00			
2118.507	AGGREGATE SURFACING, CLASS 5 (CV)	CU. YD.	49.	\$ 20.00	\$ 980.00		\$ -	49.	\$ 980.00	49.	\$ 980.00			
2451.507	FINE FILTER AGGREGATE (CV) (P)	CU. YD.	100.	\$ 30.00	\$ 3,000.00		\$ -	100.	\$ 3,000.00	100.	\$ 3,000.00			
2451.601	STRUCTURE EXCAVATION	LUMP SUM	1.	\$ 43,165.00	\$ 43,165.00		\$ -	1.	\$ 43,165.00	1.	\$ 43,165.00			
2451.607	AGGREGATE DRAIN (CV) (P)	CU. YD.	9.	\$ 100.00	\$ 900.00		\$ -	9.	\$ 900.00	9.	\$ 900.00			
2503.503	48" CAS PIPE SEWER	LIN. FT.	148.	\$ 216.00	\$ 31,968.00		\$ -	148.	\$ 31,968.00	148.	\$ 31,968.00			
2506.601	72" CAS RISER STRUCTURE, DESIGN SPECIAL	LUMP SUM	1.	\$ 20,000.00	\$ 20,000.00		\$ -	1.	\$ 20,000.00	1.	\$ 20,000.00			
2506.602	TRASH RACK	EACH	1.	\$ 8,800.00	\$ 8,800.00	1.	\$ 8,800.00		\$ -	1.	\$ 8,800.00			
2511.507	RANDOM RIPRAP, CLASS II	CU. YD.	7.	\$ 90.00	\$ 630.00		\$ -	7.	\$ 630.00	7.	\$ 630.00			
2511.507	RANDOM RIPRAP, CLASS IV	CU. YD.	157.	\$ 90.00	\$ 14,130.00	20.	\$ 1,800.00	120.	\$ 10,800.00	140.	\$ 12,600.00			
2573.503	SILT FENCE, TYPE MS	LIN. FT.	100.	\$ 3.00	\$ 300.00		\$ -		\$ -		\$ -			
2575.504	RAPID STABILIZATION, METHOD 4	LUMP SUM	1.	\$ 4,000.00	\$ 4,000.00	1.	\$ 4,000.00		\$ -	1.	\$ 4,000.00			
Extra / Change Order Items														
2501.601	18" CS PIPE CULVERT	LIN. FT.	90.	\$ 78.00	\$ 7,020.00		\$ -	90.	\$ 7,020.00	90.	\$ 7,020.00			
Totals														
Original Contract Amount					\$	150,638.00								
Extra / Change Order Amount					\$	7,020.00								
Work Completed							\$	14,600.00		\$	141,228.00		\$	155,828.00



APPENDIX D

Project Benchmark





Mn/DOT Name: 6301 E

NGS Name: 6301 E

County: RED LAKE, MN (Sheet 1)

NGS ACRN: [DN8401](#) [Get Map](#)
 NGS Quad / Sta Num : 47096142/
 USGS Quad: MARCOUX CORNERS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	34	151 N	44 W	475141.64	961600.86	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	VERTICAL CONTROL DISK	MNDT

Description: (2008) Stamping: 6301 E 1982

1.2 MILES SOUTH OF RED LAKE FALLS, 1.2 MILES SOUTH ON TRUNK HIGHWAY 32 FROM THE JUNCTION OF TRUNK HIGHWAY 32 AND COUNTY ROAD 11, AT TRUNK HIGHWAY 32 MILEPOINT 84.15, 100.0 FEET WEST OF TRUNK HIGHWAY 32, ALONG A FENCE LINE, 1.0 FOOT EAST OF A WITNESS POST. THE ROD DEPTH IS UNKNOWN.

Station Notes

THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Heights (Feet)

<u>NAVD88</u>				<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>		<u>Height</u>	<u>Acc</u>	<u>Adj</u>		<u>Year</u>	<u>Reference</u>	
1042.042	.016	2/1					VERTICAL ADJUSTMENT	2019	00000941	
1042.160	.016	2/1					VERTICAL CONTROL SURVEY	2011	VTH32	

<u>NGVD29</u>				<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>		<u>Height</u>	<u>Acc</u>	<u>Adj</u>		<u>Year</u>	<u>Reference</u>	
1041.015	.033	3					VERTICAL CONTROL SURVEY	1983	CS6301	

Non Leveling-Derived Orthometric and Ellipsoid Heights (Feet)

<u>NAVD88</u>				<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>		<u>Height</u>	<u>Acc</u>	<u>Adj</u>		<u>Year</u>	<u>Reference</u>	
1042.048	.262			953.010	.197	2011	GPS - RTRN	2019	RTRN2019	
1042.160				953.121	.011	2011	HORIZONTAL ADJUSTMENT	2013	GPS2946	
1042.160				953.121	.011	2011	GPS - STATIC	2013	HTERR	
1042.157	.131			953.246	.066	1996	GPS - STATIC	2012	HTERR	
1041.881	.262			952.967	.197	1996	GPS - RTRN	2008	RTRN2008	

Geoid Separations(ft): GEOID18 = -89.042 12B = -88.947 09 = -88.897 03 = -88.914

Lat/Lon and County Coordinates (Feet)

<u>NAD83(2011)</u>				<u>Red Lake County</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Geodetic Position</u>				<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>		<u>Year</u>	<u>Reference</u>
<u>Latitude</u>	<u>Longitude</u>									
47 51 41.63812	96 16 00.85619			524491.342	232317.920	.131	3	GPS - RTRN	2019	RTRN2019
47 51 41.63825	96 16 00.85382			524491.503	232317.933	.013		ADJUSTMENT	2013	GPS2946
47 51 41.63825	96 16 00.85382			524491.503	232317.933	.013	C	GPS - STATIC	2013	HTERR

<u>NAD83(1996)</u>				<u>Red Lake County</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Geodetic Position</u>				<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>		<u>Year</u>	<u>Reference</u>
<u>Latitude</u>	<u>Longitude</u>									
47 51 41.63777	96 16 00.85459			524491.451	232317.884	.033	C	GPS - STATIC	2012	HTERR
47 51 41.63799	96 16 00.85377			524491.507	232317.907	.131	3	GPS - RTRN	2008	RTRN2008

State Plane and UTM Coordinates (Feet)

NAD83(2011)

MN State Plane - North Zone		UTM - Zone 15				Project Info		
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
1847523.704	840624.350	838795.763	17408370.795	.131	3	GPS - RTRN	2019	RTRN2019
1847523.866	840624.356	838795.925	17408370.801	.013		ADJUSTMENT	2013	GPS2946
1847523.866	840624.356	838795.925	17408370.801	.013	C	GPS - STATIC	2013	HTERR

NAD83(1996)

MN State Plane - North Zone		UTM - Zone 15				Project Info		
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
1847523.812	840624.310	838795.870	17408370.755	.033	C	GPS - STATIC	2012	HTERR
1847523.869	840624.330	838795.927	17408370.775	.131	3	GPS - RTRN	2008	RTRN2008

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/red_lake/6301_E-DN8401-3W-23OCT2019.jpg	W	Oct 23, 2019
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/red_lake/6301_E-DN8401-2-23OCT2019.jpg		Oct 23, 2019
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/red_lake/6301_E-DN8401-1-23OCT2019.jpg		Oct 23, 2019

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **



RED LAKE FALLS MUNICIPAL TANK

RED LAKE FALLS WEST WATER TANK

Sec 21
T151 R44W

Sec 22

Sec 23
T151 R44W

Sec 24
T151 R44W

Sec 28
T151 R44W

Sec 27
T151 R44W

RED LAKE RM 1

WHEAG

Red Lake
Sec 26
T151 R44W

Sec 25
T151 R44W

PROJECT
BENCHMARK
LOCATION

PROJECT
LOCATION

6601 E

Sec 33
T151 R44W

Sec 34
T151 R44W

Sec 35
T151 R44W

Sec 36
T151 R44W



APPENDIX E

Project Photos



STRIPPING TOPSOIL AND
BEGINNING EXCAVATION



RISER BEDDING,
CONCRETE BASE FORMS,
AND REBAR PLACEMENT



RISER STRUCTURE
PLACED AND REMOVING
EXISTING OUTLET PIPE



RISER STRUCTURE PLACED WITH CONCRETE
BASE POURED AND COMPACTION OF
BACKFILL AROUND OUTLET PIPE



BACKFILL OF OUTLET PIPE
WITH GRANULAR FOR
DIAPHRAGM DRAIN SECTION



COMPACTING DRAIN FILTER DIAPHRAGM



FINISHED EXTERIOR SLOPE AND OUTLET

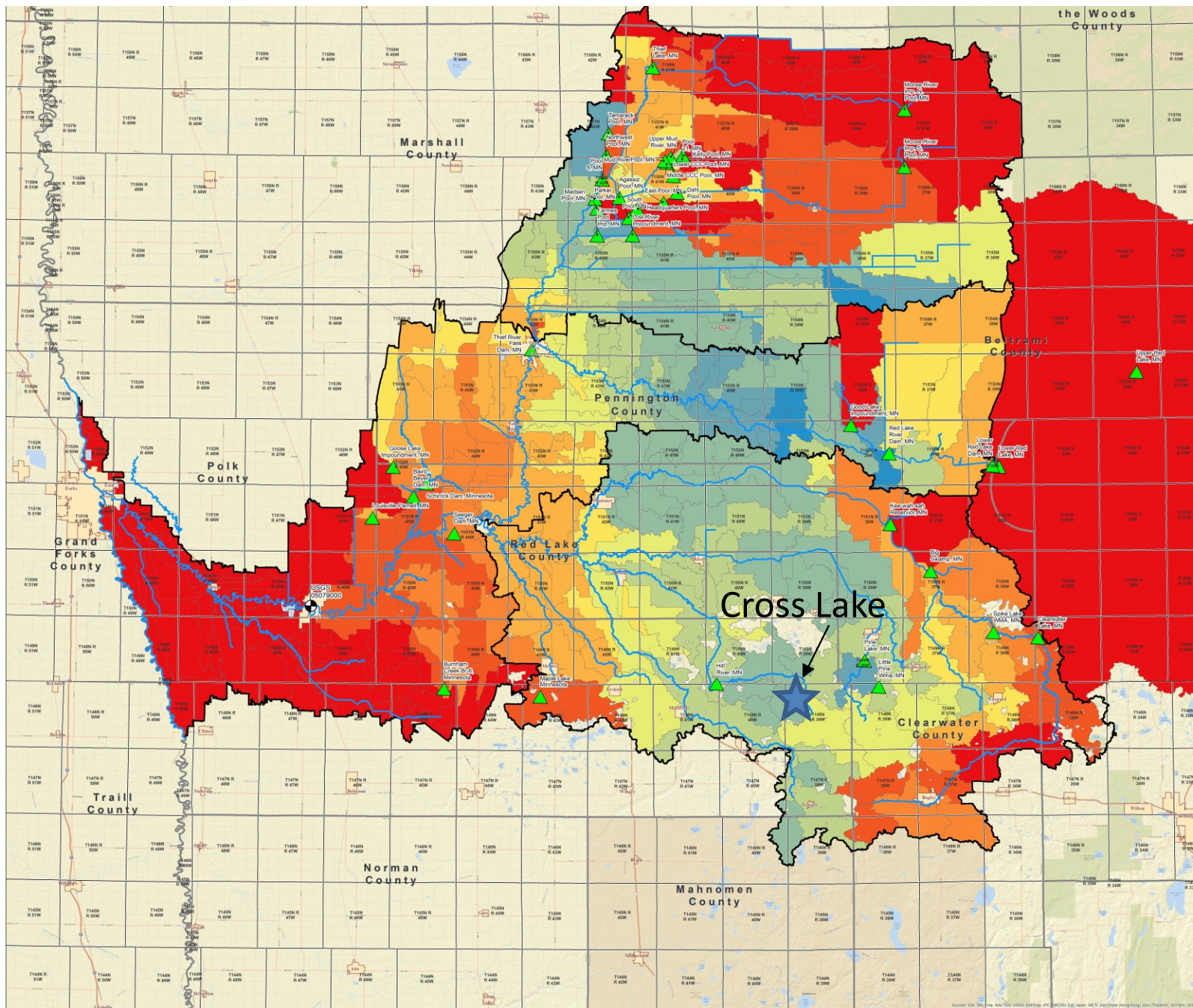


TRASH RACK INSTALLATION AND FINISHED LEVEL



TRASH RACK AND FINISHED
INTERIOR LEVEL





- 0.12 to -0.09%
 - 0.09 to -0.06%
 - 0.06 to -0.05%
 - 0.05 to -0.04%
 - 0.04 to -0.03%
 - 0.03 to -0.02%
 - 0.02 to -0.017%
 - 0.017 to -0.01%
 - 0.01 to 0%
 - 0%
- Blue colors are subbasins that highly influence Crockston peak flows.
Red colors indicate subbasins that have limited influence on Crockston peak flows.
- Drainage Line
 - ⊙ Crockston Gage
 - ▲ Existing Impoundment

Project Location



Figure 8
Hydrologic Impact Zones
Red Lake River, MN

Notes: The HEC-HMS model from the Red River HMS Phase 2 project and snow melt progression was modeled under existing conditions. Each subbasin in the watershed was removed from the analysis to determine the sensitivity of storage in the subbasin to watershed outlet peak flow.

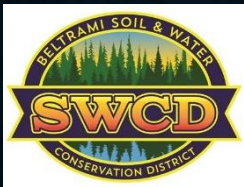
October 31, 2013



BELTRAMI SOIL AND WATER CONSERVATION DISTRICT

Request for Funding

Forest Stewardship Plan Cost-Share



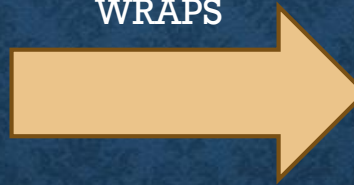
Aly Bergstrom
Beltrami SWCD
Conservation Technician

May 2021

Upper/Lower Red Lake Watershed Restoration and Protection Strategy Report



Forest Stewardship Plans are an area of focus in the WRAPS



3.3.1.2 Forest protection programs

Water quality in this watershed is currently in good shape due to well managed forestlands, grasslands, and agricultural lands. **Forestland ranks among the best land cover in providing clean water** by absorbing rainfall and snow melt, slowing storm runoff, recharging aquifers, sustaining stream flows, filtering pollutants from the air and runoff before they enter the waterways, and providing critical habitat for fish and wildlife. In addition, forested watersheds provide abundant recreational opportunities, help support local economies, provide an inexpensive source of drinking water, and improve the quality of our lives.

Minnesotans have strong conservation values. Citizens of Minnesota have long since recognized the value of forests and clean water by creating various legislative conservation programs to help conserve working land forests. There are many groups dedicated to helping protect water quality in this watershed including the RL DNR, Upper Red Lake Area Association, Beltrami County Lakes and Rivers Association, and others.

Fortunately, many minor watersheds are already forested in the ULRW and are protected by public ownership (federal, tribal, state, and county) (Figure 29 and Figure 30). Forest protection programs play a major role in ensuring private forest lands stay working forest lands to provide optimal ecosystem services while providing landowners with a monetary incentive to keep the land forested. Table 14 outlines applicable forest protection programs that will help the ULRW continue to maintain its biological integrity and provide healthy waters by promoting forest land stewardship. See the DNR

Forest Stewardship Programs page at <https://www.dnr.state.mn.us/foreststewardship/index.html>

Table 13. Forest protection programs for the Upper/Lower Red Lake Watershed.

Forest Protection Program	Applicability to Upper/Lower Red Lake Watershed
Forest Stewardship Plan	An instrumental plan for family forest landowners who own 20 acres or more of forestland. This voluntary plan offers land management recommendations to landowners based on their goals for their property from a natural resource professional. Plans are updated every 10 years to stay current with your needs and your woods. A Forest Stewardship Plan registered with the DNR qualifies you for woodland tax and financial incentive programs.
Sustainable Forest Incentive Act (SFIA)	SFIA is a tax incentive program available for landowners that have a registered Forest Stewardship Plan. This program offers an annual tax incentive payment per acre based off the amount of forest stewardship acres you have. Payments per acre range from the \$9-16.50, based off the length of covenant the landowner decides to enroll into. SFIA restricts land use conversion and subdivision of the parcel(s). A minimum of 3 acres must be excluded from the SFIA program if there is a residential structure present, landowners can exclude more acres if they plan to make future improvements on the land.
Conservation Easements	Most, but not all conservation easements are perpetual. Some landowners want to ensure their land will never be developed or converted to another use by selling or donating a conservation easement. Conservation easements serve a variety of conservation purposes and are generally intended to protect important features of the property. They are voluntary, legally binding agreements by the landowner to give up some of the rights associated with their property such as the right to develop, divide, mine, or farm the land to protect the conservation features such as wildlife habitat, water quality, and forest health, to name a few

FEATURE

A Fish Habitat Conservation Framework for Minnesota Lakes

Peter C. Jacobson
Minnesota Department of Natural Resources, 603 First Street West, Park Rapids, MN 56470.
E-mail: peter.jacobson@state.mn.us

Timothy K. Cross
Minnesota Department of Natural Resources, Hutchinson, MN

Donna L. Dustin
Minnesota Department of Natural Resources, Detroit Lakes, MN

Michael Duval
Minnesota Department of Natural Resources, Brainerd, MN

302 Fisheries | Vol. 41 • No. 6 • June 2016

Scientific report links forest protection improved water quality

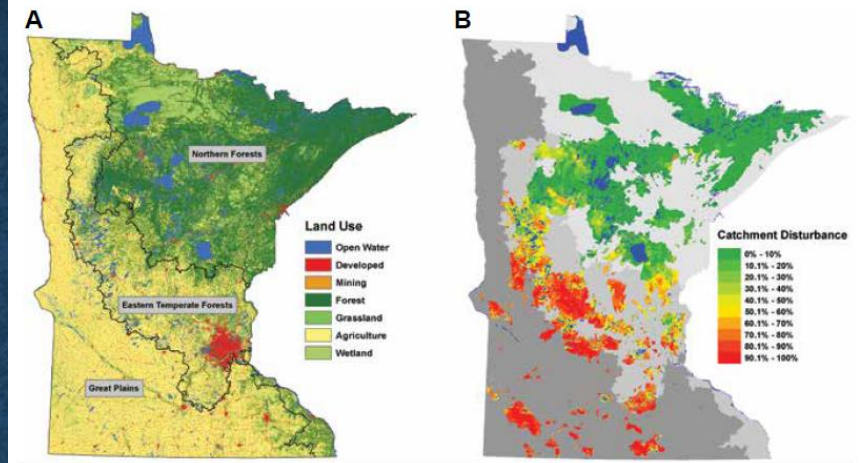
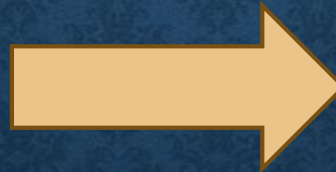


Figure 5. (A) National Land Cover Database 2001 land use in Minnesota and (B) land use disturbances for individual catchments of lakes greater than 40 ha managed for fish by Minnesota Department of Natural Resources Section of Fisheries. Disturbed land uses for panel B consisted of NCLD 2001 agricultural, urban, and mining categories. Only lakes with watersheds entirely contained within the state of Minnesota are displayed. Also displayed are Commission for Environmental Cooperation (1997) Level 1 ecoregions.

shallow lakes (Papst et al. 1980); and filamentous algal density (Maberly et al. 2002). Watershed land use is a primary driver of nonpoint nutrient loading in lakes with significantly higher concentrations of nutrients in runoff from agricultural, urban, and mining land uses than forests, grasslands, and wetlands (Heiskary et al. 1987; Wang et al. 2010; Cross and Jacobson 2013).

We quantified water quality effects of land use by calculating the relative amount of disturbed land within a watershed. A simple, yet direct watershed disturbance variable (percentage of urban, agriculture, and mining land uses in a catchment) was developed by Cross and Jacobson (2013) using National Land Cover Database 2001 land use GIS data. The percentage land use disturbance variable was significant in models predicting total phosphorus concentrations in Minnesota lakes (Cross and Jacobson 2013). Catchments with undisturbed land uses lie primarily in the Northern Forests ecoregion (CEC 1997; Level 1) and generally provide good water quality to lakes and streams in that region (Figure 5). Catchments within the agricultural Great Plains ecoregion have the highest disturbed land uses and appreciably poorer water quality (Heiskary et al. 1987; Ramstack et al. 2004). Catchments in the transition from forest to prairie in the Eastern Temperate Forests ecoregion have a wide range of disturbance values. Cross and Jacobson (2013) noted that phosphorus concentrations generally become elevated when watershed land use disturbance reached 25% and greatly increased when land use disturbances exceeded 60%. These disturbance values set the foundation for the identification of appropriate management strategies for water quality in lakes under this framework. Lakes with relatively undisturbed watersheds need protection, whereas lakes with heavily disturbed watersheds need restoration.

HABITAT CONDITION FRAMEWORK

Faced with large numbers of lakes located across an expansive geographic area, we classified Minnesota lakes by habitat condition to facilitate prioritization and targeting of appropriate management strategies. The need to consider both physical and water quality habitat components simultaneously stems from experiences of nearshore physical habitat remediation being overwhelmed by water quality impacts emanating from the watershed (Jennings et al. 1999; Cross and McInerney 2005). Likewise, projects to ameliorate water quality impacts directed at watershed disturbances may not have the desired effect if significant disturbances to nearshore physical habitat also occur.

We developed a bivariate classification of physical and water quality habitat condition to facilitate the simultaneous consideration of both fish habitat components (Figure 6). Ligeiro et al. (2013) describe a similar approach for streams where catchment and local (riparian) stressor gradients are visualized in a "disturbance bi-plane" (48). Quadrants in the bivariate classification are defined by designations of levels of disturbance (percentage watershed disturbance and docks per kilometer) that are detrimental to habitat and fish communities. This classification distinguishes lakes identified with restoration priorities for water quality improvements (C) from lakes with physical habitat restoration tied to residential development (B) or both (D). Importantly, it identifies lakes with unimpaired fish habitat functionality (A) that warrant habitat protection, usually the most inexpensive and cost-effective strategy.

Fish habitat is intact and generally unimpaired in many Minnesota lakes (Figure 6). A full 50% of the assessed lakes throughout the state have minimal disturbances of both physical and water quality habitats, and only 9% had habitat

2022 Program Details

Total Property Acres	Forest Stewardship Acres	Cost-Share Amount
250.04	246	\$1,136.74
40.65	29	\$278.76
40	38	\$318.72
78.81	69	\$456.36
528.87	300	\$1,464.00
160.92	156	\$842.64
320.04	249	\$1,255.56
237.6	166 (estimated – not complete)	\$887.04 (estimated – not complete)
40	30 (estimated – not complete)	\$283.20 (estimated – not complete)
187.69	145 (estimated – not complete)	\$785.10 (estimated – not complete)

TOTAL PROJECT ACRES (actual & estimated): 1,428

TOTAL COST-SHARE (actual & estimated): \$7,708.12 (\$5,400 from RLWD / \$2,308.12 from SWCD)

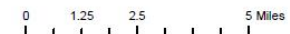
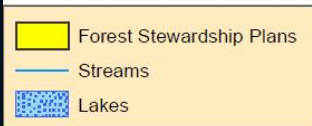


2022 Red Lake Watershed Forest Stewardship Plans

Program funded with \$5,400 from Red Lake Watershed District. RLWD funds used to support seven forest stewardship plans, totalling 950 acres.

Remaining plans were funded by the Beltrami SWCD.

Total Project Acres: 1,428
Total Cost-Share: \$7,708.12



Map created by Beltrami SWCD
12/28/2022



Beltrami SWCD Request

- \$5,400 from the Red Lake Watershed District to assist in providing a cost-share program for Beltrami County landowners within the Red Lake Watershed District
 - Cost-share would reimburse a percentage of the cost for private landowners to obtain a forest stewardship plan
 - Provide springboard into Red Lake Watershed One Watershed, One Plan
 - \$5,400 would equate to approximately 1,000 forest stewardship acres

QUESTIONS??

References:

Final Upper/Lower Red Lake Watershed Restoration and Protection Strategy (WRAPS)
Report

<https://www.pca.state.mn.us/sites/default/files/wq-ws4-81a.pdf>

A Fish Habitat Conservation Framework for Minnesota Lakes

https://www.researchgate.net/publication/303745823_A_Fish_Habitat_Conservation_Framework_for_Minnesota_Lakes

Civil 3D Subscription Renewal Options:

- **Option 1: \$3,470.78 (Reference 1733003)**

1 year subscription for 2 seats (2 renewal). This is the option RLWD used for 2022 (\$3,363.37). Tony & Nate currently use the 2 seats available.

- **Option 2: \$5,960.72 (Reference 1747999)**

1 year subscription for 3 seats (2 renewal, 1 new). 1 additional seat for Erick if needed.

- **Option 3: \$9,893.98 (Reference 1734127)**

3 year subscription for 2 seats (2 renewal). Approximate savings of \$518.36 compared to yearly subscription.



A TECH DATA COMPANY

Price Quotation /

Quote: 5127185
Reference: 1733003
Date: 12/28/2022
Expires: 01/02/2023

To: Nathan Koland
Red Lake Watershed District
1000 Pennington Ave South
Thief River Falls, MN 56701

From: Kiran Saund
DLT Solutions, LLC
2411 Dulles Corner Park
Suite 800
Herndon, VA 20171

Phone:
Fax:
Email: nate.koland@redlakewatershed.org

Phone: (703) 773-9250
Fax: (703) 773-9250
Email: kiran.saund@dlt.com

#	DLT Part No.	Contract	Qty	Unit Price	Ext. Price
1	9701-1001913	OM	1	\$2,260.48	\$2,260.48
	Civil 3D Government Single-user Annual Subscription Renewal				
	PoP: 1/12/2023 through 1/11/2024				
2	9701-1008777	OM	1	\$1,210.30	\$1,210.30
	Civil 3D Government Single-user Annual Subscription Renewal Switched From Maintenance (Switched between May 2019 - May 2020 and Ongoing)				
	PoP: 1/12/2023 through 1/11/2024				

Total **\$3,470.78**

Contract Number: OPEN MARKET
DUNS #: 78-646-8199
Federal ID #: 54-1599882
CAGE Code: 0S0H9
FOB: Destination
Terms: Net 30 (On Approved Credit)
DLT accepts VISA/MC/AMEX

UNLESS CONTROLLED BY AN EXISTING RESELLER PARTNER AGREEMENT OR OTHER WRITTEN CONTRACTUAL AGREEMENT BETWEEN YOU AND DLT, THIS QUOTE AND ANY RESULTING AWARD OR ORDER IS SUBJECT TO THE TERMS AND CONDITIONS POSTED AT [HTTPS://WWW.DLT.COM/PRODUCTS/CLIENT-COMMERCIAL-LICENSES](https://www.dlt.com/products/client-commercial-licenses). THESE TERMS CONTROL THE TERMS OF SALES AS WELL AS THE END USER'S USE OF THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE. BUYER IS DIRECTED TO INCORPORATE (BY REFERENCE) THIS QUOTE IN ANY RESULTING AWARD OR ORDER. THE TERMS AND CONDITIONS AT THE ABOVE LINK ARE THE ONLY CONTROLLING TERMS THAT WILL APPLY TO A RESULTING ORDER AND THE USE OF THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE. ANY ADDITIONAL OR INCONSISTENT TERMS ON BUYER'S ORDER THAT IN ANY WAY, MODIFY, ALTER OR NEGATE THE TERMS OF SALE OR THE MANUFACTURER'S END USER LICENSE AGREEMENT WILL NOT BE BINDING ON DLT OR ITS MANUFACTURERS AND SHALL NOT APPLY UNLESS SPECIFICALLY AGREED TO IN WRITING BY DLT AND THE MANUFACTURER. NO RETURNS ARE AUTHORIZED OF THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE. THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE ARE NONRECOURSE, NONCANCELLABLE, AND NON-RETURNABLE UNLESS EXPLICITLY AGREED TO IN WRITING BY DLT.



A TECH DATA COMPANY

Price Quotation **2**

Quote: 5127185
Reference: **1747999**
Date: 12/28/2022
Expires: 01/02/2023

To: Nathan Koland
Red Lake Watershed District
1000 Pennington Ave South
Thief River Falls, MN 56701

From: Kiran Saund
DLT Solutions, LLC
2411 Dulles Corner Park
Suite 800
Herndon, VA 20171

Phone:
Fax:
Email: nate.koland@redlakewatershed.org

Phone: (703) 773-9250
Fax: (703) 773-9250
Email: kiran.saund@dlt.com

#	DLT Part No.	Contract	Qty	Unit Price	Ext. Price
1	9701-1001913	OM	1	\$2,260.48	\$2,260.48
	Civil 3D Government Single-user Annual Subscription Renewal				
	PoP: 1/12/2023 through 1/11/2024				
2	9701-1008777	OM	1	\$1,210.30	\$1,210.30
	Civil 3D Government Single-user Annual Subscription Renewal Switched From Maintenance (Switched between May 2019 - May 2020 and Ongoing)				
	PoP: 1/12/2023 through 1/11/2024				
3	9701-4550	OM	1	\$2,489.94	\$2,489.94
	Civil 3D 2023 Government New Single-user ELD Annual Subscription new				
	PoP: 1/12/2023 through 1/11/2024				

Total **\$5,960.72**



A TECH DATA COMPANY

Price Quotation **3**

Quote: 5127185
Reference: **1734127**
Date: 12/28/2022
Expires: 01/02/2023

To: Nathan Koland
Red Lake Watershed District
1000 Pennington Ave South
Thief River Falls, MN 56701

From: Kiran Saund
DLT Solutions, LLC
2411 Dulles Corner Park
Suite 800
Herndon, VA 20171

Phone:
Fax:
Email: nate.koland@redlakewatershed.org

Phone: (703) 773-9250
Fax: (703) 773-9250
Email: kiran.saund@dlt.com

#	DLT Part No.	Contract	Qty	Unit Price	Ext. Price
1	9701-1001915	OM	1	\$6,444.56	\$6,444.56
Civil 3D Government Single-user 3-Year Subscription Renewal					
PoP: 1/12/2023 through 1/11/2026					
2	9701-1004121	OM	1	\$3,449.42	\$3,449.42
Civil 3D Government Single-user 3-Year Subscription Renewal Switched From Maintenance (Switched between May 2019 - May 2020 and Ongoing)					
PoP: 1/12/2023 through 1/11/2026					

Total **\$9,893.98**

Contract Number: OPEN MARKET
DUNS #: 78-646-8199
Federal ID #: 54-1599882
CAGE Code: 0S0H9
FOB: Destination
Terms: Net 30 (On Approved Credit)
DLT accepts VISA/MC/AMEX

UNLESS CONTROLLED BY AN EXISTING RESELLER PARTNER AGREEMENT OR OTHER WRITTEN CONTRACTUAL AGREEMENT BETWEEN YOU AND DLT, THIS QUOTE AND ANY RESULTING AWARD OR ORDER IS SUBJECT TO THE TERMS AND CONDITIONS POSTED AT [HTTPS://WWW.DLT.COM/PRODUCTS/CLIENT-COMMERCIAL-LICENSES](https://www.dlt.com/products/client-commercial-licenses). THESE TERMS CONTROL THE TERMS OF SALES AS WELL AS THE END USER'S USE OF THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE. BUYER IS DIRECTED TO INCORPORATE (BY REFERENCE) THIS QUOTE IN ANY RESULTING AWARD OR ORDER. THE TERMS AND CONDITIONS AT THE ABOVE LINK ARE THE ONLY CONTROLLING TERMS THAT WILL APPLY TO A RESULTING ORDER AND THE USE OF THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE. ANY ADDITIONAL OR INCONSISTENT TERMS ON BUYER'S ORDER THAT IN ANY WAY, MODIFY, ALTER OR NEGATE THE TERMS OF SALE OR THE MANUFACTURER'S END USER LICENSE AGREEMENT WILL NOT BE BINDING ON DLT OR ITS MANUFACTURERS AND SHALL NOT APPLY UNLESS SPECIFICALLY AGREED TO IN WRITING BY DLT AND THE MANUFACTURER. NO RETURNS ARE AUTHORIZED OF THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE. THE PRODUCTS AND/OR SERVICES INCLUDED IN THIS QUOTE ARE NONRECOURSE, NONCANCELLABLE, AND NON-RETURNABLE UNLESS EXPLICITLY AGREED TO IN WRITING BY DLT.



Permit # 22-046

Status Report: **Approved**

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Gervais Township	Gervais Township	21259 165th Avenue SE Red Lake Falls, MN 56750		tel: mobile: 218-689-3441 fax:

General Information

(1) The proposed project is a:

Culvert Installation / Removal / Modification

(2) Legal Description

(3) County: **Red Lake** Township: **Gervais** Range: **43** Section: **1 1/4: NE1/4 NE1/4**

(4) Describe in detail the work to be performed. **Replace existing 54" culvert**

(5) Why is this work necessary? Explain water related issue/problem being solved. **culvert is smashed.**

Status

Status	Notes	Date
Closed	P.A. #22-046 – Gervais Township Red Lake County – Gervais Township – Section 1 Red Lake Watershed District (RLWD) approval to replace a failed culvert and install a recommended 54" culvert. Install new pipes (as close as possible) to the same flowline/invert elev. as existing pipe. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Permit Holder shall contact the road authorities when cutting through roads. Applicant shall install appropriate erosion control measures for energy dissipation at the outlet. ■ Note: Please be aware of and review the 'bullet points' on the bottom half of the application. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	May 25, 2022
Approved	**Revised** P.A. #22-046 – Gervais Township Red Lake County – Gervais Township – Section 1 Red Lake Watershed District (RLWD) approval to replace a failed culvert and install a recommended 60" culvert. Install new pipes (as close as possible) to the same flowline/invert elev. as existing pipe. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Permit Holder shall contact the road authorities when cutting through roads. Applicant shall install appropriate erosion control measures for energy dissipation at the outlet. ■ Note: Please be aware of and review the 'bullet points' on the bottom half of the application. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	Dec. 28, 2022
Received	None	May 11, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.

APPLICATION FOR PERMIT
RED LAKE WATERSHED DISTRICT
1000 Pennington Avenue South, Thief River Falls, MN 56701
RLWD@redlakewatershed.org
218-681-5800

Site # 3

TO THE BOARD OF MANAGERS:

Landowner Name:	Telephone Number:
Gervais Township	218-689-3441
Address (Street, RFD, Box No., City, State, Zip):	
21259 - 165 AVE SE RLF. MN 56750	
Project Location:	
Government Lot _____ Quarter Section(s) <u>NE</u> Section(s) <u>1</u>	
Township (Name & #) <u>Gervais 151</u> Range # <u>43</u> County <u>Red Lake</u>	
Type of Work Proposed:	
<input type="checkbox"/> Excavate	<input type="checkbox"/> Install
<input type="checkbox"/> Fill	<input type="checkbox"/> Remove
<input type="checkbox"/> Drain	<input type="checkbox"/> Other
<input type="checkbox"/> Construct	<input type="checkbox"/>
<input type="checkbox"/> Ditch	<input type="checkbox"/> Dike
<input type="checkbox"/> Culvert (Size <u>54" x 60'</u>)	<input type="checkbox"/> Erosion Control
<input type="checkbox"/> Bridge (Size _____)	<input type="checkbox"/> Tile
<input type="checkbox"/> Dam	<input type="checkbox"/> Other

AL
SPE. MARKS

Be sure to attach all necessary reports, maps, drawings, photos, other data, etc., to support permit application.

Description of work to be done: <u>Replace existing culvert.</u>
Estimated drainage area: acres _____ or sq. mile(s) _____
Work is necessary because: <u>CULVERT SMASHED</u>

I hereby make application for a permit to proceed with the proposal described above and have attached all supporting maps, plans, and other information submitted with this application. The information submitted and statements made concerning this application are true and correct to the best of my knowledge. Obtaining a permit from the Managers does not relieve the applicant from the responsibility of obtaining any other additional authorization or permits required by law.

Signature of landowner: <u>[Signature]</u>	Date: <u>5-11-2022</u>
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MAY 11 2022

MS

For Office Use Only
P.A. No.

22-046

In the matter of the application of: Gervais Township, 21259 165th Avenue SE, Red Lake Falls, MN 56750

Pursuant to Minnesota Statutes Chapter 103D, the Permit and Drainage Rules of the Red Lake Watershed District, and on the basis of the statement and information contained in the permit application submitted by applicant, including all letters, maps, and other supporting data furnished by applicant, all of which are made a part hereof by reference, permission is hereby granted to Gervais Township address for the purposes of notice and other communications pertaining to this permit is 21259 165th Avenue SE, Red Lake Falls, MN 56750 the purpose of doing the work applied for with the following exceptions, changes, and/or special conditions:

Red Lake Watershed District (RLWD) approval to replace a failed culvert and install a recommended 54" culvert. Install new pipes (as close as possible) to the same flowline/invert elev. as existing pipe. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Permit Holder shall contact the road authorities when cutting through roads. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166)

This permit is granted subject to the following provisions:

- 1) This permit is permissive only and shall not release the permittee from any liability or obligation imposed by Minnesota Statutes, Federal Law or Local Ordinances and shall be subject to all conditions and limitations now or hereafter imposed by law. The Red Lake Watershed District makes no representations to the applicant in granting the permit that the proposed work complies or does not comply with the existing law. No liability shall be imposed upon or incurred by the District or any of its officers, agents or employees, officially or personally, on account of the granting of this permit, or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees or contractors relating to any matter hereunder. This permit shall not be construed as estopping or limiting any legal claim or right of action of the District against the permittee, its agents, employees, or contractors for violation of or failure to comply with the provisions of the permit or applicable provisions of law.
- 2) Work authorized under this permit shall be completed by June 21, 2023, unless extended by the District.
- 3) The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the District for inspection of the work authorized by this permit.
- 4) This permit may be terminated by the District without notice at any time deemed necessary for the management of the water resources of the District, or in the interest of the public health and welfare, or for violation of any of the provisions of this permit.

Dated this 21 day of June, 2022.

Red Lake Watershed District



Myron Jesme, Administrator

P.A. No. 22-046



Permit # 22-221

Status Report: **Tabled**

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Paul Sorenson		34274 270th St. SW Fisher, MN 56723		tel:218-289-2900 mobile: fax:

General Information

(1) The proposed project is a:

Tiling

(2) Legal Description

(3) County: **Polk** Township: **Bygland** Range: **49** Section: **9 1/4**:

(4) Describe in detail the work to be performed. **Random Tile/Gravity**

(5) Why is this work necessary? Explain water related issue/problem being solved.

Status

Status	Notes	Date
Tabled	P.A. #22-221 – Paul Sorenson Polk County – Bygland Township – Section 9 Red Lake Watershed District (RLWD) Tabled due to needing additional landowner signatures. Permit applicant has been notified. T.O.	Dec. 20, 2022
Received	None	Sept. 20, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Delano Thoreson		37420 320th St. SW Climax, MN 56523		tel:218-779-6735 mobile: fax:

General Information

(1) The proposed project is a:

Culvert Installation / Removal / Modification

(2) Legal Description

(3) County: **Polk** Township: **Roome** Range: **48** Section: **19 1/4**:

(4) Describe in detail the work to be performed. **Field Crossing culvert is not very good shape and too narrow for farm equipment**

(5) Why is this work necessary? Explain water related issue/problem being solved.

Status

Status	Notes	Date
Tabled	P.A. #22-267 – Delano Thoreson Polk County – Roome Township Section 19 Red Lake Watershed District (RLWD) Tabled due to amount of snow in ditch system to accurately size the culvert. Will revisit in the spring when allowed. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	Dec. 20, 2022
Received	None	Nov. 17, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 22-268

Status Report: **Tabled**

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
River Falls Township	River Falls Township	13447 150th Ave. SE St. Hilaire, MN 56754		tel:218-684-1268 mobile: fax:

General Information

(1) The proposed project is a:

Culvert Installation / Removal / Modification

(2) Legal Description

(3) County: **Pennington** Township: **River Falls** Range: **43** Section: **14 1/4**:

(4) Describe in detail the work to be performed. **See if flaggate is needed on centerline pipe 110 ft of 160th Ave & 127th St.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Prevent water backing up into field**

Status

Status	Notes	Date
Tabled	P.A. #22-268 – River Falls Township/Craig Jonson Pennington County – River Falls Township Section 14 Red Lake Watershed District (RLWD) will table permit. RLWD staff will monitor in the Spring of '23 to observe what is going on at this location. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	Dec. 20, 2022
Received	None	Nov. 15, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 22-273

Status Report: **Tabled**

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Justin Halverson		18676 430 Ave SW East Grand Forks, MN 56721		tel:701-739-1822 mobile: fax:

General Information

(1) The proposed project is a:

Culvert Installation / Removal / Modification

(2) Legal Description

(3) County: **Red Lake** Township: **Louisville** Range: **45** Section: **5 1/4**:

(4) Describe in detail the work to be performed. **Clean Township ditches and install wider crossing**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Need to remove high spots from erosion and widen crossing for safety**

Status

Status	Notes	Date
Tabled	P.A. #22-273 – Justin Halverson “After the Fact” Red Lake County – Louisville Township Section 5 Red Lake Watershed District (RLWD) permit to be tabled to extend a 30” culvert with an additional 30” culvert extension. And clean sediment out of the ditch bottoms. (See Attached Map). Permit tabled until permit violation is completed to satisfactory condition. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Permit Holder shall contact the road authorities when cutting through roads. Applicant shall install appropriate erosion control measures for energy dissipation at the outlet of pipes. This application does not exempt the permit applicant from local, state, or federal authority that might require their approval. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	Dec. 19, 2022
Received	None	Nov. 28, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 22-269

Status Report: Denied

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Gerald Michaelson		21320 210th Ave SW Crookston, MN 56716		tel:218-289-1833 mobile: fax:

General Information

(1) The proposed project is a:

**Surface Drainage (New Ditch or Improvement)
Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Red Lake** Township: **Louisville** Range: **None** Section: **30 1/4**:

(4) Describe in detail the work to be performed. **Site 1 - Remove culvert thru minimum maintenance road and direct water to the north towards the highway. Install east/west culvert at Site 2. clean east ditch on minimum maintenance road and south ditch of County Road 18 in the NE1/4 of Section 30.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Washes out large gully on west side of minimum maintenance road.**

Status

Status	Notes	Date
Denied	P.A. #22-269 – Gerald Michaelson Red Lake County – Louisville Township Section 29/30 Red Lake Watershed District (RLWD) will deny this permit due to a grading issue. (See Attachments) T.O.	Dec. 15, 2022
Tabled	P.A. #22-269 – Gerald Michaelson Red Lake County – Louisville Township Section 29/30 Red Lake Watershed District (RLWD) will table this permit due to the fact that we cant get enough grade at this location. T.O.	Nov. 29, 2022
Received	None	Nov. 9, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.

APPLICATION FOR PERMIT
RED LAKE WATERSHED DISTRICT

1000 Pennington Avenue South, Thief River Falls, MN 56701
RLWD@redlakewatershed.org
218-681-5800

TO THE BOARD OF MANAGERS:

Landowner Name: <i>Gerald Michaelson</i>	Telephone Number: <i>218-289-1833</i>	
<i>Henry + Pauline Steen</i>		
Address (Street, RFD, Box No., City, State, Zip): <i>21320 210th Ave SW, Crookston MN 56716</i>		
Project Location: Government Lot _____	Quarter Section(s) _____	Section(s) <i>Sec 30 - NE 1/4</i>
Township (Name & #) <i>Louisville</i>	Range # _____	County <i>Red Lake</i>
Type of Work Proposed:		
<input type="checkbox"/> Excavate	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Ditch
<input type="checkbox"/> Fill	<input checked="" type="checkbox"/> Remove <i>36"</i>	<input checked="" type="checkbox"/> Culvert (Size <i>?</i>)
<input checked="" type="checkbox"/> Drain	<input type="checkbox"/> Other	<input type="checkbox"/> Bridge (Size _____)
<input type="checkbox"/> Construct	<input type="checkbox"/>	<input type="checkbox"/> Dam
		<input type="checkbox"/> Dike
		<input type="checkbox"/> Erosion Control
		<input type="checkbox"/> Tile
		<input type="checkbox"/> Other

Be sure to attach all necessary reports, maps, drawings, photos, other data, etc., to support permit application.

Description of work to be done: <i>Site 1 - remove culvert thru minimum maintenance road direct water to the north towards the Hwy. install east/west culvert @ site 2 - clean east ditch on minimum maintenance road & south ditch</i>
Estimated drainage area: acres _____ or sq. mile(s) _____ <i>of Co. Rd. 18 in the NE 1/4 of Sec 30</i>
Work is necessary because: <i>washed out large gully on west side of min. maintenance road</i>

I hereby make application for a permit to proceed with the proposal described above and have attached all supporting maps, plans, and other information submitted with this application. The information submitted and statements made concerning this application are true and correct to the best of my knowledge. Obtaining a permit from the Managers does not relieve the applicant from the responsibility of obtaining any other additional authorization or permits required by law.

Signature of landowner: <i>Gerald Michaelson</i>	Date: <i>10-12/22</i> <i>10/12/22</i>
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For Office Use Only
P.A. No.

22-269



Red Lake County
Minnesota

Forness/Michaelson

1:9,000

Date: 10/11/2022

These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

This map is not a substitute for a professional field assessment or for a building and/or environmental assessment. Errors and omissions are allowed.



Permit # 22-274

Status Report: **Approved**

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Clearwater County Highway Department	Clearwater County Highway Department	113 7th St. NE Bagley, MN 56621		tel:218-694-6132 mobile: fax:

General Information

(1) The proposed project is a:

Culvert Installation / Removal / Modification

(2) Legal Description

(3) County: **Clearwater** Township: Range: **38** Section: **1 1/4**:

(4) Describe in detail the work to be performed. **Rove deficient Bridge on CSAH 9 over the Silver Creek and replace with 2 lines of 12' X 10' RC box Culvert 54' long and aprons**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Existing bridge is deficient**

Status

Status	Notes	Date
Approved	P.A. #22-274 – Clearwater County Highway Department Clearwater County – Pine Lake Township Section 1 Red Lake Watershed District (RLWD) approval to replace deficient bridge on Silver Creek with a (2) lines of 12' x 10' Box culvert. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Permit Holder shall contact the road authorities when cutting through roads. Applicant shall install appropriate erosion control measures for energy dissipation at the outlet of pipes. This application does not exempt the permit applicant from local, state, or federal authority that might require their approval. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	Dec. 19, 2022
Received	None	Dec. 5, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 22-275

Status Report: **Approved**

Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Clearwater County Highway Department	Clearwater County Highway Department	113 7th St. NE Bagley, MN 56621		tel:218-694-6132 mobile: fax:

General Information

(1) The proposed project is a:

Culvert Installation / Removal / Modification

(2) Legal Description

(3) County: **Clearwater** Township: **Eddy** Range: **38** Section: **18 1/4**:

(4) Describe in detail the work to be performed. **Remove washed out culvert on 440th St. over the lost River and replace with 12' X 8' RC box Culvert 60' long and aprons**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Existing bridge is washed out**

Status

Status	Notes	Date
Approved	P.A. #22-275 – Clearwater County Highway Department Clearwater County – Eddy Township Section 18 Red Lake Watershed District (RLWD) approval to replace failed culvert on the Lost River with a new 12' x 8' Box culvert. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Permit Holder shall contact the road authorities when cutting through roads. Applicant shall install appropriate erosion control measures for energy dissipation at the outlet of pipes. This application does not exempt the permit applicant from local, state, or federal authority that might require their approval. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) T.O.	Dec. 15, 2022
Received	None	Dec. 13, 2022

Conditions

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



40th Annual Red River Basin Land & Water International Summit Conference Agenda

Tuesday, January 17, 2023

Time	Session	Details	Speaker(s)	Location
1:00 - 1:30pm	Welcome & Introductions	National Anthems & Presentation of the Flags	<ul style="list-style-type: none"> Gavin van der Linde Ted Preister 	Crystal Ballroom
		Welcome from the City of Winnipeg	Markus Chambers, Deputy Mayor, Winnipeg City Councillor	
1:30 - 2:30 pm	Keynote	Understanding Hydroclimatic Changes in the Red River Basin	Kenneth Blumenfeld, Sr. Climatologist, Minnesota State Climate Office	Crystal Ballroom
2:30 - 3:00 pm	Break & Exhibits			Concert Hall
3:00 - 4:00 pm		Looking Back, Highlighting 40 Years of Progress	<ul style="list-style-type: none"> Morrie Lanning Lance Yohe Herm Martens Bud Oliver Ben Varnson 	Crystal Ballroom
4:00 - 5:00 pm	Plenary Session	2022 Year in Review; Moving on to 2023	Melinda Beerends & Amanda Lee, US National Weather Service, NOAA	Crystal Ballroom
		Journey Toward Permanent Flood Protection: A Look at 2022 Accomplishments and 2023 Plans for the Fargo-Moorhead Area Diversion Project	Joel Paulsen, Metro Flood Diversion Authority	
5:30 - 7:30 pm	Social	40th Annual Conference Celebration		Concert Hall

Wednesday, January 19, 2023

Time	Session	Details	Speaker(s)	Location
7:00 am	Continental Breakfast			Provencher Ballroom
9:00 - 10:15 am	Panel Discussion	Jurisdictional Agricultural Perspectives: The State of Agriculture	<ul style="list-style-type: none"> Maurice Bouvier, Assistant Deputy Minister of Manitoba Agriculture Doug Goehring, North Dakota Agriculture Commissioner Thom Petersen, Minnesota Agriculture Commissioner 	Crystal Ballroom
10:15 - 10:45 am	Break & Exhibits			Concert Hall
10:45 - 12:00 pm	Lightning Talks	The Keep it Clean Initiative for Ice Belt Lakes in Minnesota	Robyn Dwight, Upper Red Lake Area Association	Crystal Ballroom
		Lessons Learned from the 2022 Flood: Bourbanis Dam and the Changing Landscape of the Red River Basin	Zach Herrmann, Houston Engineering, Inc.	
		Manitoba Flooding	Chris Propp & Fisaha Unduche, Manitoba Transportation and Infrastructure	
		City of Grafton North Dakota Flood Risk Reduction	Kurt Lysne, Moore Engineering, Inc.	
12:00 - 12:45 pm	Lunch: Buffet Style			Provencher Ballroom
1:00 - 3:00 pm	Plenary Session	Elm River Watershed Dam Safety Retrofits	Nathan Trosen, Moore Engineering, Inc.	Crystal Ballroom
		40 Years of Joint Water Organizations	<ul style="list-style-type: none"> Rob Sip Randy Gjestvang Keith Weston 	
		Fort Garry Campus Riverbank Management Study: Looking Beyond the Build	Bruno Pierre Arpin, KGS Group	
		Restoring the Roseau River	<ul style="list-style-type: none"> Tracy Halstengard, Roseau River Watershed Erik Jones, Houston Engineering, Inc. 	
		Whiskey Creek Enhancement Project	Erik Jones, Houston Engineering, Inc.	



40th Annual Red River Basin
Land & Water International Summit Conference
Agenda

Wednesday, January 19, 2023

Time	Session	Details	Speaker(s)	Location
3:00 - 3:30 pm	Break & Exhibits			Concert Hall
3:30 - 5:00 pm	Breakout Sessions			

Crystal Ballroom		Gateway Room		Tache Room	
Proposed TP Standards for the Red at Emerson: Where's the Historical Perspective	Scott Korom, University of North Dakota	Exploring 'Big Picture' Scenarios for Resilience in the Red River Basin	Anita Lazaruko, University of Waterloo	Calculating Flow Rate from Variable Frequency Drive Operated Pump Systems for Agricultural Drainage	Emily Nelson, North Dakota State University
Building Climate Change Resilience into your Emergency Plan	Shelley Napier, Napier Emergency Consulting	Swan Lake First Nation Youth Program	David Scott, Youth Program Leader, Swan Lake First Nation	Hydrologic and Hydraulic Assessment Study of Flood Prone Areas in the RM of St. Andrews: The Flood Mechanisms and Identification of Residences At-Risk to Ice Jamming on the Red River	<ul style="list-style-type: none"> Ron Hahlweg, RM of St. Andrews & MB Transportation and Infrastructure Andrew Weiss, KGS Group
USGS Science in Support of International Red River Watershed Board	Rochelle Nustad, USGS	Pembina Valley Watershed District Partnership with Swan Lake First Nation	Ryan Sheffield, Samantha Leech, & Tiffany Hemphill, Pembina Valley Watershed District	Natural Bank Stabilization Methods	Mandar Nagare, Barr Engineering

Time	Session	Details	Speaker(s)	Location
6:00 pm	Social	<ul style="list-style-type: none"> Cash Bar 		Provencher Ballroom
6:30 pm	Awards Banquet	<ul style="list-style-type: none"> Ariel Delouya, Consul General of Canada, Minneapolis, United States Brian Koontz, Consul and Principal Officer, US Consulate Winnipeg Leadership Award Presentation Silent Auction Winners 		



40th Annual Red River Basin Land & Water International Summit Conference Agenda

Thursday, January 18, 2023

Time	Session	Details	Speaker(s)	Location
7:00 am	Continental Breakfast			Provencher Ballroom
8:30 - 9:30 am	Annual Meeting	<ul style="list-style-type: none"> Board Chairman Report Executive Director Report Financial/Audit Report At-Large Election 		Provencher Ballroom
9:30 - 10:00 am	Break			Concert Hall
10:00 - 11:30 am	Plenary Session: Trending Topics	Using 2D Modeling to Accurately Estimate Runoff Peaks in Red River Valley (Case Study: Grand Forks, ND)	Amber Lefers, AE2S	Crystal Ballroom
		A Provincial Water Management Strategy for Manitoba	Nicole Armstrong, Director, Water Science and Water Management Branch	
		50 Years of the Clean Water Act	Theresa Haugen, Minnesota Pollution Control Agency	
		Red River Basin Commission Projects and Where We Are Going	Ted Preister, RRBC	
11:30 - 12:15 pm	International Red River Watershed Board & International Joint Commission			Crystal Ballroom
12:15 pm	Lunch <ul style="list-style-type: none"> Conference Wrap Up Grand Prize Drawing 			Provencher Ballroom

10:45 a.m. – Noon Risk Management on Drainage Projects

John Kolb, Attorney at Law, Rinke Noonan

Chris Otterness, Houston Engineering Inc. Project Manager

This session will address risk management questions on drainage projects, such as: What are the major decision points that drainage authorities need to evaluate in project proceedings? How do drainage authorities weigh evidence and testimony, and make findings to support their decision? How can engineers and legal counsel help drainage authorities prepare for, and accomplish that evaluation, and maximize the chances of a project's success and minimize the risks of an appeal? This session will also address environmental considerations: What are the criteria the Board must consider (e.g., 103E.015) and what are the things we look at in preparing our report and assisting with this consideration?

1:00 – 2:00 p.m. Separable Maintenance

John Kolb, Attorney at Law, Rinke Noonan

Chris Otterness, Houston Engineering Inc. Project Manager

What is Separable Maintenance and when does it apply? This session will address the definition of separable maintenance, its application in drainage project proceedings, and also discuss strategies for informing petitioners and affected landowners of its application.

2:00 – 3:00 p.m. Panel / Open Discussion

Doug Kruger, McLeod County Commissioner

Randy Kramer, Renville County Commissioner

Todd Patzer, Lac qui Parle Commissioner

What do you see as the biggest obstacle to drainage management and how is your county addressing the challenge?

How do you gauge the collective will of the benefitting landowners, and to what extent does this affect your management decisions?

3:00 p.m. Adjourn

Conference Registration Fee:
\$195 per person

Arrowwood Group Rate:
\$123 until 1/16/23

Look for more information and registration coming soon via email and online at www.mncounties.org



Counties, joint counties, watershed districts, and other water management organizations, as drainage authorities, are charged with the responsibility to manage and preserve the drainage infrastructure our agricultural economy depends upon in order to support modern advances in efficient farming practices.

At the same time, drainage authorities are also expected to balance the needs of effective water management with competing ecological, land use, and conservation policies. Administering these objectives successfully requires drainage authorities, their staff, and their consultants to understand the basics of public drainage law and to adopt practical and innovative strategies utilizing current technology to meet these challenges. Public drainage is complicated, nuanced, and often contentious.

This conference is designed to provide drainage authorities, their staff, and their consultants, both those well-seasoned and those that are new to public drainage, with insights on decision making and communication as well as knowledge on both legal and technical issues impacting the management of water.

Wednesday, February 8, 2023

9:30 – 10:45 a.m. Registration Open

10:45 – 11:00 a.m. Welcome & Introductions

Laurie Klupacs, AMC
Deputy Director

11:00 a.m. – Noon Minnesota Drainage History

John Kolb, Attorney at Law,
Rinke Noonan

Water has provided challenges from the early days of statehood, when the first drainage laws focused on attempts to make land more productive for agriculture, to enable and protect roadways, to protect public health from stagnant waters, and promote commerce. Over the years, drainage law has always maintained these objectives, while adding provisions with regard to protection of public waters and wetlands as well as considerations for criteria for environmental and natural resources protection. This session will provide an overview of that history to provide attendees with a background of the basic objectives for drainage authorities.

Noon – 1:00 p.m. Lunch

1:00 – 2:30 p.m. Drainage Authority and 103E

John Kolb, Attorney at Law,
Rinke Noonan

This session will cover responsibilities and obligations of drainage authority commissioners, managers, staff, and consultants, specifically focusing on the importance of maintaining the hydraulic efficiency of the drainage system to protect vested property rights and compliance with conservation, land use, and ecological considerations.

2:30 – 2:45 p.m. Break

2:45 – 4:15 p.m. Redeterminations of Benefits

Bryan Murphy, H2Over
Viewers, President

Minnesota Public Drainage Systems are often the largest piece of infrastructure the county maintains. As the world population increases the pressure for higher carrying capacities on our farmers is also increasing. When drainage systems were originally constructed often only the low wet acres were included in the benefitted area. With modern technology newly completed Redetermination of Benefits almost always increases the benefitted acres ensuring that everyone who uses the drainage system pay for the repairs and maintenance in an equitable way. This process is often considered step one to any repairs or maintenance of a public drainage system.

5:00 – 6:00 p.m. Social Hour

6:00 p.m. Dinner

Thursday February 9, 2023

7:00 – 8:30 a.m. Breakfast

8:30 – 10:30 a.m. Repairs vs Improvement

Bryan Murphy, H2Over
Viewers President

Chris Otterness, Houston
Engineering Inc. Project
Manager

This session will provide insight to the question of “what is a repair” and identify why the distinction between “repair” and “improvement” is important. The foundation of this distinction is determining the as-constructed condition of the drainage system, including its hydrologic efficiency. We will further discuss how this efficiency is evaluated for the conditions before and after and improvement and identify how this efficiency affects drainage benefits.

10:30 – 10:45 a.m. Break

Red Lake Watershed District - Administrators Report

December 29, 2022

Red River Watershed Management Board – LeRoy and I attended the virtual Red Board meeting held December 13, 2022. As you are all aware, the RRWMB Legislative Open House scheduled for December 13th was cancelled due to Senate conflicts along with weather travel concerns and illness with Red Board staff.

Thief River 1W1P – Corey and I attended the Planning Workgroup meeting held December 16th in preparation with the Advisory/Policy Committee meeting being held December 19, 2022.

Corey, LeRoy, Tammy and Ann attended the Advisory and Policy Committee meeting on December 19th. I was not in attendance so I will let LeRoy update the Board as he sees fit.

Red Lake River 1W1P – Corey and HDR staff met with landowners on Monday December 12th to discuss project options on Crescent Avenue in Crookston. Landowners are in favor of moving forward but we still have to figure out the best way to gain access to the project area as its in residential, heavy wooded areas as well as steep terrain.

FEMA – RLWD staff is continuing to work on data input for completed projects. To date Tammy has submitted FEMA with all the Black River Impoundment and Diversion Ditch damages for them to review. We wanted a sample project for them to review and since this project seem the most damage, this would be a good one to start with.