

Projects Committee Meeting
 Thursday, April 28, 2022 7:30 AM
 Lower Platte North NRD Office
 P.O. Box 126
 Wahoo, NE 68066

1. UNFINISHED BUSINESS

None

2. SWCP

2.A. SWCP Application Approvals

We've received one application for summer SWCP cost-share. The farm is outside of our priority areas so qualifies for a maximum cost-share amount of \$10,000:

2.B. \$ -1- 22	2.C.	2.D. RUTH WIDMAN	2.E. \$ 10,00 0.00	2.F. TERRACE/TIL E OUTLET
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2.G. SWCP Payments

2.H. SWCP Cancellations

2.I. Wahoo Creek Cost Share Approvals

2.J. Lands for Conservation

The following applications have been received for our Lands for Conservation (LFC) program. One application (Hartman) is located outside of our grant areas so will be paid out of the local SWCP fund. As a reminder, the approved 2022 LFC payment rate is \$192/acre:

2.K. PARTI CIPANT	2.L. ACR ES	2.M. PAY MENT	2.N. LOC ATION	2.O. WATER SHED
2.P. HARTMA N FAMILY TRUST	2.Q. 5	2.R. \$ 960.00	2.S. 31-16N- 5E SAUND ERS	2.T. SKULL
2.U. CARL & DOROTH Y PETERSO N TRUST	2.V. 9 5	2.W. \$ 18,240. 00	2.X. 35- 15N-6E SAUND ERS	2.Y. WAHOO
2.Z. AUSTIN & AMY VERMELI NE	2.AA. 5 0	2.BB. \$ 9 ,600.00	2.CC. 9- 15N-6E SAUND ERS	2.DD. COTTO NWOOD (21-A)
2.EE.	2.FF.	2.GG.	2.HH.	2.II.
2.JJ.	2.KK.	2.LL.	2.MM.	2.NN.

2.OO. TOTAL	2.PP. 1 50	2.QQ. \$28, 800.00	2.RR.	2.SS.
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3. WATERSHEDS

3.A. Shell Creek

3.A.1. Shell Creek Environmental Enhancement Plan Implementation

We are working to close out various Shell Creek Projects and use available funding by September 2022. We will be working with NDEE to complete a new Project Implementation Plan for future 319 grant assistance over the next five years.

3.A.1.a. Tom Sprunk Bank Stabilization/Wetlands Project 7:30 a.m.

As mentioned previously, Tom Sprunk has been working with Bill Bos, contractor Jim Wimhoff and NRCS for another grade stabilization project along Shell Creek. Tom Sprunks Rock Chute project is moving along well. Healing a headcut on Shell Creek. Bill Bos met with the contractor and Tom and the proposed start time is Mid May.

Engineers cost is 45,262.00

75% cost share 33,945.00

Contractors estimate is within the engineers estimated cost.

Bill will be at the projects committee on April 28th to discuss this project and potential approval..

3.A.1.b. Shell Creek Grant Funding Update

We have \$226,289 of available grant funds plus an additional \$95,000 of LPNNRD funds are budgeted for various projects. Colfax County informed us that the contractor (Pruss) submitted an invoice for \$208,285 for the remaining work on the Shell Creek South Branch Project. We plan to receive an invoice from Colfax County for this expense in May.

The following are project expenses estimated for the grant period ending September, 2022.

Shell Creek Channel Improvement/Benching Project: \$208,285

Tom Sprunk Shell Creek Grade Stabilization Project: \$33,945

Various Landowner & Septic System Projects: \$50,000

Colfax County Shell Creek Stabilization Project: ????

Estimated Remaining Minimum Match Requirement (\$176,364.16) :

Colfax County Engineering (Channel Project): \$40,000

Colfax County Landright Value (Channel Project): \$50,000

Landowner Project Match: \$20,000

LPNNRD Estimated Match: \$66,000

Other Colfax County Stabilization Project Match: ?????

Of the estimated \$291,945 that could be LPNNRD's project expenditures by September, 2022, it is estimated \$66,000 would be from LPNNRD local budgeted funds.

In addition to the above, Colfax County will be requesting assistance with reinforcing a rock stabilization project along Shell Creek. The estimated total cost is \$100,000.

3.A.1.c. Colfax County Channel Stabilization Project Assistance Request
 Colfax County has requested assistance for a project to stabilize a Shell Creek channel. The estimated cost is \$100,000. Since it appears our Shell Creek grant funding will be used on other projects, LPNNRD commitment would be entirely from local budgeted funds. It is anticipated more detail will be available by the committee meeting.

3.A.2. Shell Creek Environmental Enhancement Project Payment
 An approved livestock water system has been completed and submitted for cost-share within our Shell Creek Environmental Enhancement Plan area:

3.A.

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3.B. Wahoo Creek Watershed

3.B.1. Wahoo Creek Dam Site Planning Update & FYRA Invoices
 We have returned our signed Wahoo Creek Watershed Plan Agreement to NRCS and are awaiting their official signed approval,

3.B.2. Wahoo Creek Watershed Water Quality Plan Phase II

3.B.3. Olsson Design Update and Invoice
 On April 23, we had a meeting with Olsson to discuss USACE 404 permitting and mitigation requirements for Wahoo Creek dams (minutes attached). It is estimated that 15,300 feet (2.9 miles) of stream channel will need to be improved for mitigation purposes. Staff will continue to work with Olsson on selecting the best areas and approach.

Attached is a Wahoo Creek progress report. Also attached are Olsson invoices for Sites 26a, 26b & 27 (\$1,531.23) and for sites 55, 66, 77, 82, 84, 85, 86 (\$32,614.25). These sites are billed separately because of being reimbursed in part of fully from different sources. After these payments, \$1,446,388.24 will remain under our existing contract for all ten sites. As mentioned in the past, at the next Project Committee meeting, Olsson is planning to discuss a contract update needed for completing the remaining work in Wahoo Creek.

4. JOINT WATER MANAGEMENT ADVISORY BOARD

Sean Elliott will give updates on the JWMAB Meeting held on April 13th, the Elkhorn Township/East Fremont Project and the Rawhide Creek Public Meeting held on April 14th.

4.A. Platte River Cameras/Gauge Project Payment

Attached is USGS's second invoice totaling \$24,180 for the Platte River Camera/Gauge Equipment along the river. FEMA will pay 75% grant assistance toward the \$38,880 total equipment costs. We have previously paid USGS \$14,700. Attached are our equipment and maintenance agreements with USGS.

After the Dodge County receives the FEMA grant payment, each partner (LPNNRD, PMRNRD, Fremong & Dodge County) will each be contributing \$2,430 toward the equipment.

4.B. Rawhide Creek Watershed

On April 13th the JWMAB convened for a formal meeting to update members on status of related projects. JEO updated the Board on the status of the Rawhide Creek Watershed Flood Reduction Plan. They have completed enough of the hydrology/hydraulics within the watershed to begin narrowing down on project alternatives. They plan to have project alternatives highlighted by our May meeting. Initial observations: detention cell(s) feasibility will be challenging due to size. The Fremont Cut-off will most likely be an important piece.

On April 14th a public informational meeting was held in North Bend to discuss the Rawhide Creek Flood Risk Reduction Plan. JEO presented the scope of the project and a planned progress timeline. The purpose of the meeting was to engage with the public within the watershed and discuss potential project alternatives.

4.C. E. Fremont/Elkhorn Township drainage study

On April 13 JEO presented to the JWMAB on the FEMA Advanced Assistance study in the E. Fremont/Elkhorn Township watershed. The attachments that accompanied the presentation are attached, and are the same as was presented to Projects last month. There will be a meeting on May 3 involving JEO, JWMAB, NDOT, UPRR regarding multiple chokepoints within East Fremont that will have a big impact on the future path of this project.

5. HAZARD MITIGATION PLAN UPDATE

6. EROSION AND SEDIMENT RULES AND REGULATIONS

No new information

7. OTHER

7.A. SID No.8 (Woodcliff) Approved Assistance Requests - Bank Stabilization Projects (Near Lagoons - FEMA PA & near Lots 1142-1134) 8:00 a.m.

Jake Miriovsky, JEO, will joined by Zoom at 8:00 a.m. to give a progress report on the completed work.

As attached, Sanitary Improvement District No. 8 is requesting payment of LPNNRD's approved \$40,000 toward the completed Bank Stabilization near the Woodcliff's lagoons. The project involves 9 weirs and about 900 feet of stone toe

protection along their riverfront property. Jake suggested waiting to approve our assistance payment until all outside assistance funding is received from FEMA/NEMA. The \$510,000 project total cost is expected to receive 95% cost share reimbursement, which would leave \$25,500. LPNNRD's policy has been to pay no more than 50% of the total local share. In this case it appears our final approved payment is estimated to be \$12,750, not \$40,000. The committee will wait to make a final payment recommendation.

Also attached is their \$35,000 project assistance request for the first of three payments on the substantially completed Bank Stabilization Project near Lots 1142 - 1134. This project placed 6 weirs and approximately 500 feet of stone toe protection along Woodcliff riverfront property. LPNNRD approved \$105,000 to be paid \$35,000/year over three fiscal years. Since this request and approval came after our FY 22 Budget was approved, the first \$35,000 payment can be budgeted and paid after July 1, 2022 (FY 23). A \$35,000 payment will be budgeted for and paid in FY 24 and in FY 25.

8. ADJOURNMENT

The Projects Committee adjourned at 8:38 a.m.

Rock Chute Design - Plan Sheet

(Version 4.03 - 11/29/11, Based on Design of Rock Chutes by Robinson, Rice, Kadavy, ASAE, 1998)

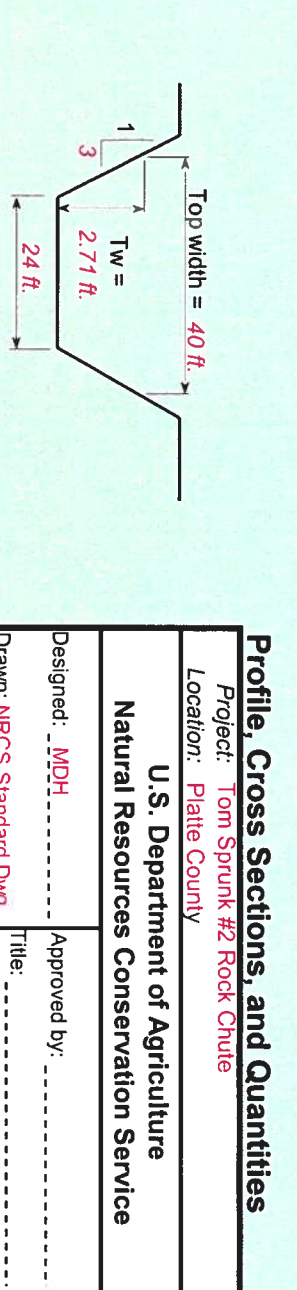
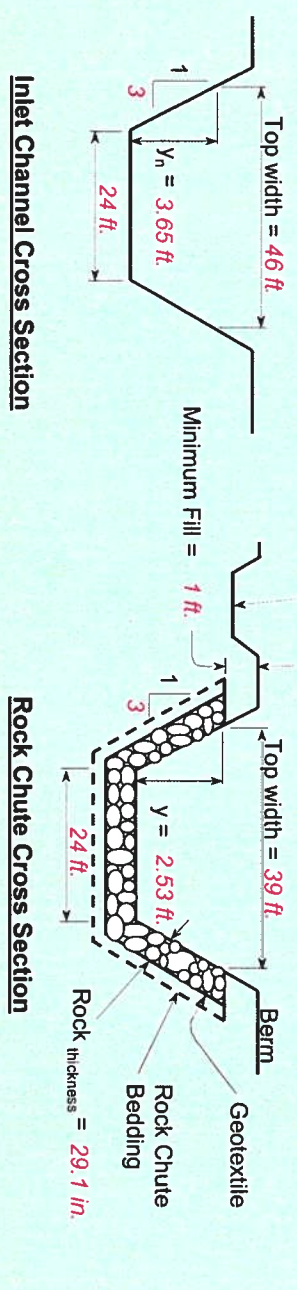
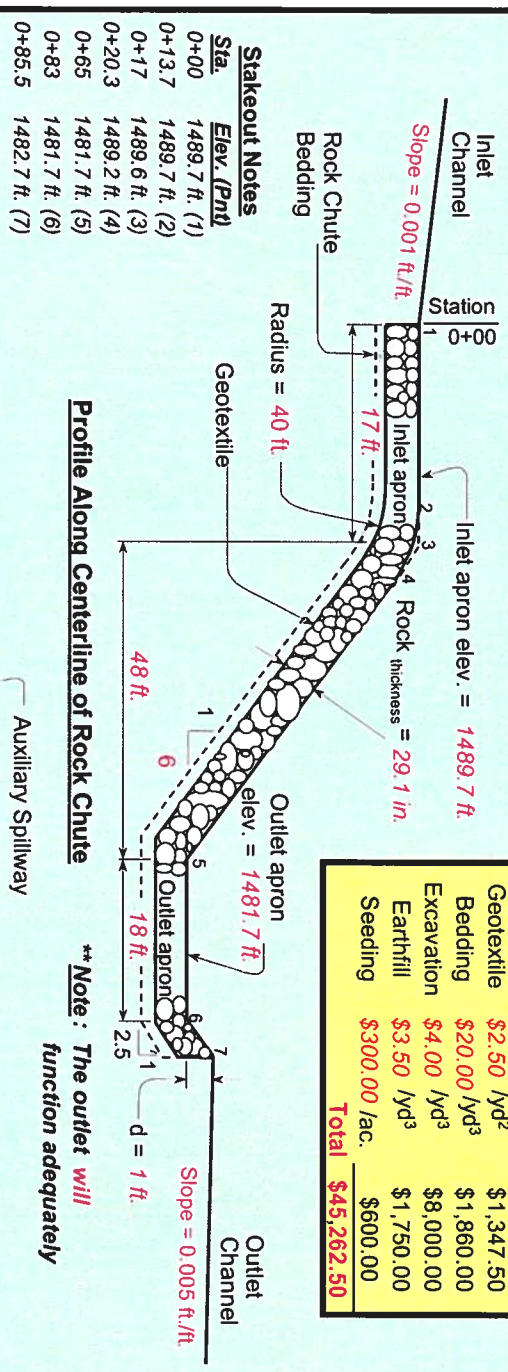
Project: **Tom Sprunk #2 Rock Chute**
 Designer: **MDH**
 Date: **2/14/2022**

County: **Platte**
 Checked by: _____
 Date: _____

Design Values		Rock Gradation Envelope		Quantities ^a	
Angular D ₅₀ dia. = 14.6 in.	% Passing	Diameter, in. (weight, lbs.)	Angular Rock = 373 yd ³		
Rock _{chute} thickness = 29.1 in.	D ₁₀₀ -----	22 - 29 (765 - 1814)	Geotextile ^b = 539 yd ²		
Inlet apron length = 17 ft.	D ₈₅ -----	19 - 26 (498 - 1323)	Bedding (6 in.) = 93 yd ³		
Outlet apron length = 18 ft.	D ₅₀ -----	15 - 22 (227 - 765)	Excavation = 2000 yd ³		
Radius = 40 ft.	D ₁₀ -----	12 - 19 (116 - 498)	Earthfill = 500 yd ³		
Will bedding be used? Yes	Depth (in.) = 6.0		Seeding = 2.0 acres		

Notes: ^a Rock, bedding, and geotextile quantities are determined from the x-section below (neglect radius).
^b Geotextile shall be overlapped (18-in. min.) and anchored (18-in. min. along sides and 24-in. min. on the ends).

Rock Chute Cost Estimate		
Unit	Unit Cost	Cost
Rock	\$85.00 /yd ³	\$31,705.00
Geotextile	\$2.50 /yd ²	\$1,347.50
Bedding	\$20.00 /yd ³	\$1,860.00
Excavation	\$4.00 /yd ³	\$8,000.00
Earthfill	\$3.50 /yd ³	\$1,750.00
Seeding	\$300.00 /ac.	\$600.00
Total		\$45,262.50



Profile, Cross Sections, and Quantities

Project: **Tom Sprunk #2 Rock Chute**
 Location: **Platte County**
U.S. Department of Agriculture
Natural Resources Conservation Service

Designed: **MDH**
 Drawn: **NRCS Standard Dwg.**
 Traced: _____
 Checked: _____

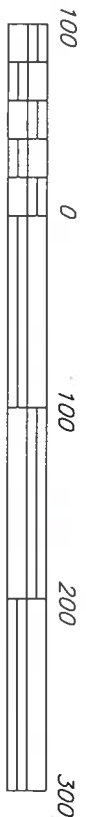
Approved by: _____
 Title: _____
 Sheet No. _____ of _____
 Drawing No. _____



PLAN VIEW

Tom Sprunk
Farmplace

Shell Creek



<p>United States Department of Agriculture</p> <p>Natural Resources Conservation Service</p>	<p>410 GRADE STABILIZATION STRUCTURE</p> <p>PLAN VIEW</p> <p>SE 1/4, Sec. 22, T18N, R1W</p> <p>PLATTE County, NE</p>	<p>Designed <u>MH</u> Date <u>6/21</u></p>
		<p>Drawn <u>JTS</u> Date <u>11/21</u></p>
		<p>Checked <u>BB</u></p>
		<p>Approved: _____</p>
<p>File No. <u>Sprunk_Site2b.dwg</u></p> <p>Drawing No. _____</p> <p>2/14/22 11:12 AM</p> <p>Sheet 3 of _____</p>		

State, Local, and Indian Tribal Governments: OMB Circular Nos. A-87, A-102, A-129, and A-133; and 7 CFR Parts 3015, 3016, 3017, 3018, 3021, and 3052.

Nonprofit Organizations, Hospitals, Institutions of Higher Learning: OMB Circular Nos. A-110, A-122, A-129, and A-133; and 7 CFR Parts 3015, 3017, 3018, 3019, 3021 and 3052.

21. Examination of Records.

The sponsors must give the NRCS or the Comptroller General, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to this agreement, and retain all records related to this agreement for a period of three years after completion of the terms of this agreement in accordance with the applicable OMB Circular.

22. Signatures

The signing of this plan was authorized by a resolution by the Lower Platte North Natural Resources District governing body and adopted at an official meeting held on April 11th 2022 (date).

Lower Platte North
Natural Resources District (NRD)

By [Signature]
Eric Gottschalk

Title: _____
General Manager

511 Commercial Park Rd
PO Box 126 Wahoo Ne 68086
Address Zip Code

Date: 4/11/22

The signing of this Watershed Agreement as supplemented was authorized by a resolution of governing body of the Lower Platte North Natural Resources District adopted at a meeting held on

_____ (date).

Secretary

Address Zip Code

Date: _____

Natural Resources Conservation Service
United States Department of Agriculture

Approved By:

Robert Lawson
State Conservationist

Date: _____

Upper Wahoo Creek WFPO Section 404 Permitting – Mitigation Meeting

Date: April 23, 2022, 9:30 a.m.

Attendees: Sean Elliott – LPN NRD, Tom Mountford – LPN NRD, Andrew Phillips - Olsson, Caleb Pharris – Olsson

Topics:

1. Section 404 Permitting Process after Discussion with U.S. Army Corps of Engineers
2. Stream Mitigation
3. Wetland Mitigation

Discussion:

1. Section 404 Permitting.

Olsson met with the Corps to discuss the permitting process for all 10 projects.

- Corps will accept alternatives analysis done with the Watershed Plan EA.
- Corps would like to permit all projects together but would be alright with permitting sites 26A, 26B, and 27 first and then amending the permit to include the next seven sites. Based on timing for construction this is likely the route we will take.

2. Stream Mitigation

- Based on preliminary impact calculations and assumptions about where the stream mitigation would occur, it is estimated that approximately 15,300 feet (2.9 miles) of stream channel will need to be improved as per to the stream mitigation.
- The Corps would prefer the stream mitigation to occur at one or a few large sites as opposed to mitigation each site at that location.
- The stream mitigation can occur anywhere within the Work Plan EA designated watershed.
- For sites 26A, 26b, and 27, the stretch of channel east of Hwy 79 and north of County Road P and potentially extending west of Hwy 79 to the south of County Road P. Olsson will run some preliminary calculations to see how much channel would be needed in this area.
- Improvements examined include putting rock vanes, cross vanes, and root wads to stabilize the channel. Then a buffer (preferably 100 feet on either side so the channel but could be less) would be seeded in native vegetation.
- Other options include grading the banks back although this option can get much more expensive.

3. Wetland Mitigation

- Based on design the total wetland impacts will be 7.2 acres. If the mitigation wetlands are created along the restored stream channel, the ratio would be 2:1 (2 acres created : 1 acre

impacted). If mitigation wetlands are created around the permanent pool of the dam sites, the ratio would be 4:1.

- Although you would need to create more wetlands if mitigating around the lake, there is the ability to count the area 3-foot above the permanent pool elevation and 1-foot below the permanent pool elevation. This means less excavation and potentially less cost.
- If mitigating wetlands along the stream channel, benches would need to be excavated.

Action Items:

1. Olsson will run calculations about mitigating for site 26A, 26B, and 27 at Site 27 and see how much channel would need to be restored.
2. LPN NRD will contact landowners and see what areas may be available for larger mitigation sites or using the dam sites for mitigation.
3. Olsson will determine how much land around the permanent pools is available for wetland mitigation and include the required buffers to see how much land would be needed in total.
4. Olsson will provide deed restriction example for mitigation sites and buffers.

Invoice



601 P St Suite 200
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

April 24, 2022
Invoice No: 418247

Tom Mountford
Assistant Manager
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066-0126

Invoice Total \$1,531.23

Olsson Project # 018-34230 Lower Platte North NRD Wahoo Creek Watershed & 3 Dam Sites
Professional services rendered March 13, 2022 through April 9, 2022 for work completed in accordance with agreement.

Phase 030 Dam Design 26a, 26b, 27

	Hours	Amount	
Assistant Professional	11.50	1,531.23	
Totals	11.50	1,531.23	
Total Labor			1,531.23
		Total this Phase	\$1,531.23

Billing Limits	Current	Prior	To-Date
Total Billings	1,531.23	277,784.03	279,315.26
Limit			583,825.00
Balance Remaining			304,509.74
		AMOUNT DUE THIS INVOICE	\$1,531.23

Email invoice to tmountford@lpnrd.org

Authorized By: Andrew Phillips

Invoice



601 P St Suite 200
 PO Box 84608
 Lincoln, NE 68501-4608
 Tel 402.474.6311, Fax 402.474.5063

April 19, 2022
 Invoice No: 417430

Tom Mountford
 Assistant Manager
 Lower Platte North NRD
 PO Box 126
 Wahoo, NE 68066-0126

Invoice Total \$32,614.25

Olsson Project # A18-34230 Lower Platte North NRD Wahoo Creek Watershed & 7 Dam Sites
 Phase II
 Professional services rendered March 13, 2022 through April 9, 2022 for work completed in accordance with agreement.

 Phase 100 Sites 55 66 77 82 83 84 85 86 Project Management

Labor			
		Hours	Amount
Principal		6.75	1,597.79
	Totals	6.75	1,597.79
	Total Labor		1,597.79
Billing Limits			
		Current	Prior
Total Billings		1,597.79	6,952.15
Limit			62,400.00
Balance Remaining			53,850.06
		Total this Phase	
			\$1,597.79

 Phase 110 Geotechnical Engineering

Labor			
		Hours	Amount
Assistant Engineer		9.75	882.08
Technician		6.75	478.98
Principal		2.75	458.87
Project Professional		46.25	5,933.41
Assistant Professional		2.50	341.13
	Totals	68.00	8,094.47
	Total Labor		8,094.47

Unit Billing

Atterberg Limit		
1 Test @ \$95/Test		95.00
1 Test @ \$95/Test		95.00
Dry Density Test		
18 Tests @ \$30/Test		540.00

Project	A18-34230	Lower Platte North NRD Wahoo Creek Water	Invoice	417430
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1 Test @ \$30/Test			30.00	
22 Tests @ \$30/Test			660.00	
Mechanical Grain Size Analysis (Sieves)				
3 Tests @ \$90/Test			270.00	
2 Tests @ \$90 /Test			180.00	
Moisture Content				
1 Test @ \$20/Test			20.00	
5 Tests @ \$20/Test			100.00	
One-Dimensional Consolidation Test				
5 Tests @ \$165/Test			825.00	
P-200 Sieve Test				
3 Tests @ \$45/Test			135.00	
7 Tests @ \$45/Test			315.00	
Triaxial Comp Unconsolidated Undrained				
1 Test @ \$175/Test			175.00	
Unconfined Compression Test				
4 Tests @ \$45/Test			180.00	
3 Tests @ \$45/Test			135.00	
Total Units			3,755.00	3,755.00

Billing Limits	Current	Prior	To-Date	
Total Billings	11,849.47	198,923.33	210,772.80	
Limit			607,460.00	
Balance Remaining			396,687.20	
		Total this Phase		\$11,849.47

Phase 120 Dam Design

Labor		Hours	Amount	
Assistant Professional		7.00	932.05	
Designer		34.75	4,106.06	
Administrative/Clerical		7.75	586.21	
Totals		49.50	5,624.32	
Total Labor				5,624.32

Billing Limits	Current	Prior	To-Date	
Total Billings	5,624.32	26,035.00	31,659.32	
Limit			436,278.00	
Balance Remaining			404,618.68	
		Total this Phase		\$5,624.32

Phase 130 Permitting

Labor		Hours	Amount	
Assistant Professional		80.50	8,137.27	
Totals		80.50	8,137.27	
Total Labor				8,137.27

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Billing Limits	Current	Prior	To-Date	
Total Billings	8,137.27	3,122.72	11,259.99	
Limit			251,140.00	
Balance Remaining			239,880.01	
			Total this Phase	\$8,137.27

Phase 140 Survey & Legal Descriptions

Labor		Hours	Amount	
Team Leader		1.00	171.93	
Totals		1.00	171.93	
Total Labor				171.93

Billing Limits	Current	Prior	To-Date	
Total Billings	171.93	6,198.03	6,369.96	
Limit			28,875.00	
Balance Remaining			22,505.04	
			Total this Phase	\$171.93

Phase 150 Community/Public Participation

Labor		Hours	Amount	
Principal		14.00	3,313.94	
Assistant Professional		14.00	1,864.10	
Totals		28.00	5,178.04	
Total Labor				5,178.04

Reimbursable Expenses				
Meals			16.82	
Personal Vehicle Mileage			38.61	
Total Reimbursables			55.43	55.43

Billing Limits	Current	Prior	To-Date	
Total Billings	5,233.47	429.02	5,662.49	
Limit			30,000.00	
Balance Remaining			24,337.51	
			Total this Phase	\$5,233.47

AMOUNT DUE THIS INVOICE \$32,614.25

Outstanding Invoices			
Number	Date	Balance	
414533	3/22/2022	75,985.19	
Total		75,985.19	

Authorized By: Andrew Phillips

UNITED STATES DEPARTMENT OF THE INTERIOR
DOWN PAYMENT (BILL) REQUEST

Make Remittance Payable To: U.S. Geological Survey
Billing Contact: Amanda Flynn, Budget Analyst Phone: 402-328-4144

Bill #: 90976963
Customer: 6000000136
Date: 04/21/2022
Due Date: 06/20/2022

Remit Payment To: United States Geological Survey
P.O. Box 6200-27
Portland, OR 97228-6200

Payer: LOWER PLATTE NORTH NRD
P.O. BOX 126
WAHOO NE 68066

Additional forms of payment may be accepted. Please email GS-A-HQ_RMS@USGS.GOV or call 703-648-7683 for additional information.

To pay through Pay.gov go to <https://www.pay.gov>.

Checks must be made payable to U.S. Geological Survey. Please detach the top portion or include bill number on all remittances.

Amount of Payment: \$ _____

Date	Description	Qty	Unit Price		Amount
			Cost	Per	
04/21/2022	Installation and operation of 5 cameras and two stage-only steamgages on Lower Platte River bridges, as agreed to in the Joint Funding Agreement between the Lower Platte North NRD and the U.S.Geological Survey. JFA 22NRJFA00010 22NRJFA00010	1	24,180.00	1	24,180.00

Amount Due this Bill: 24,180.00

Accounting Classification:
Sales Order: 102072
Sales Office: GENR
Customer: 6000000136
Accounting #: 11186660

TIN: *****2716

UNITED STATES DEPARTMENT OF THE INTERIOR
DOWN PAYMENT (BILL) REQUEST

Make Remittance Payable To: U.S. Geological Survey
Billing Contact: Amanda Flynn, Budget Analyst Phone: 402-328-4144

Bill #: 90976963
Customer: 6000000136
Date: 04/21/2022
Due Date: 06/20/2022

Remit Payment To: United States Geological Survey
P.O. Box 6200-27
Portland, OR 97228-6200

Payer: LOWER PLATTE NORTH NRD
P.O. BOX 126
WAHOO NE 68066

Additional forms of payment may be accepted. Please email GS-A-HQ_RMS@USGS.GOV or call 703-648-7683 for additional information.

To pay through Pay.gov go to <https://www.pay.gov>.

Checks must be made payable to U.S. Geological Survey. Please detach the top portion or include bill number on all remittances.

Amount of Payment: \$ _____

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Amount Due this Bill: 24,180.00

Accounting Classification:
Sales Order: 102072
Sales Office: GENR
Customer: 6000000136
Accounting #: 11186660

TIN: *****2716

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 22NRJFA00010_02
Project #: NR00GS1
TIN #: 47-0542716

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of October 1, 2021, by the U.S. GEOLOGICAL SURVEY, Nebraska Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation **for equipment for camera and stream monitoring for the Lower Platte River**, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$0.00 by the party of the first part during the period October 1, 2021 to September 30, 2022
- (b) \$38,880 by the party of the second part during the period October 1, 2021 to September 30, 2022
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: 0.00

Description of the USGS regional/national program:
Groundwater Streamflow Information Program

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website <https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000136
Agreement #: 22NRJFA0010_02
Project #: NR00GS1
TIN #: 47-0542716

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Jason Lambrecht
Hydrologic Data Section Chief
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4124
Fax: (402) 328-4101
Email: jmlambre@usgs.gov

Customer Technical Point of Contact

Name: Eric Gottschalk
General Manager
Address: PO Box 126
Wahoo, NE 68066
Telephone: (402) 443-4675
Fax:
Email: egottschalk@lpnrd.org

USGS Billing Point of Contact

Name: Amanda Flynn
Budget Analyst
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4116
Fax: (402) 328-4101
Email: aflynn@usgs.gov

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U.S. Geological Survey
United States
Department of Interior


Lower Platte North Natural Resources District

Signature

By STEVEN PETERSON
Name: Steven M. Peterson
Title: Director

Digitally signed by STEVEN PETERSON
Date: 2022.02.14 14:48:53 -06'00'

Signatures

By  Date: 03-14-2022
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of October 1, 2021, by the U.S. GEOLOGICAL SURVEY, Nebraska Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation **installation and operation of 5 cameras and two stage-only streamgages on Lower Platte River bridges**, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$26,440 by the party of the first part during the period October 1, 2021 to September 30, 2024
- (b) \$60,525 by the party of the second part during the period October 1, 2021 to September 30, 2024
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: 0.00

Description of the USGS regional/national program:
Groundwater Streamflow Information Program

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

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Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000000136
Agreement #: 22NRJFA0010_01
Project #: NR00GS1
TIN #: 47-0542716

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

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Fax: (402) 328-4101
Email: jmlambre@usgs.gov

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Telephone: (402) 443-4675
Fax:
Email: egottschalk@lpnrd.org

U.S. Geological Survey
United States
Department of Interior

Lower Platte North Natural Resources District

Signature
Digitally signed by STEVEN
PETERSON
Date: 2022.02.14 14:46:31
-06'00'
By **STEVEN
PETERSON**
Name: Steven M. Peterson
Title: Director

Signatures
By  Date: 03-14-2022
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

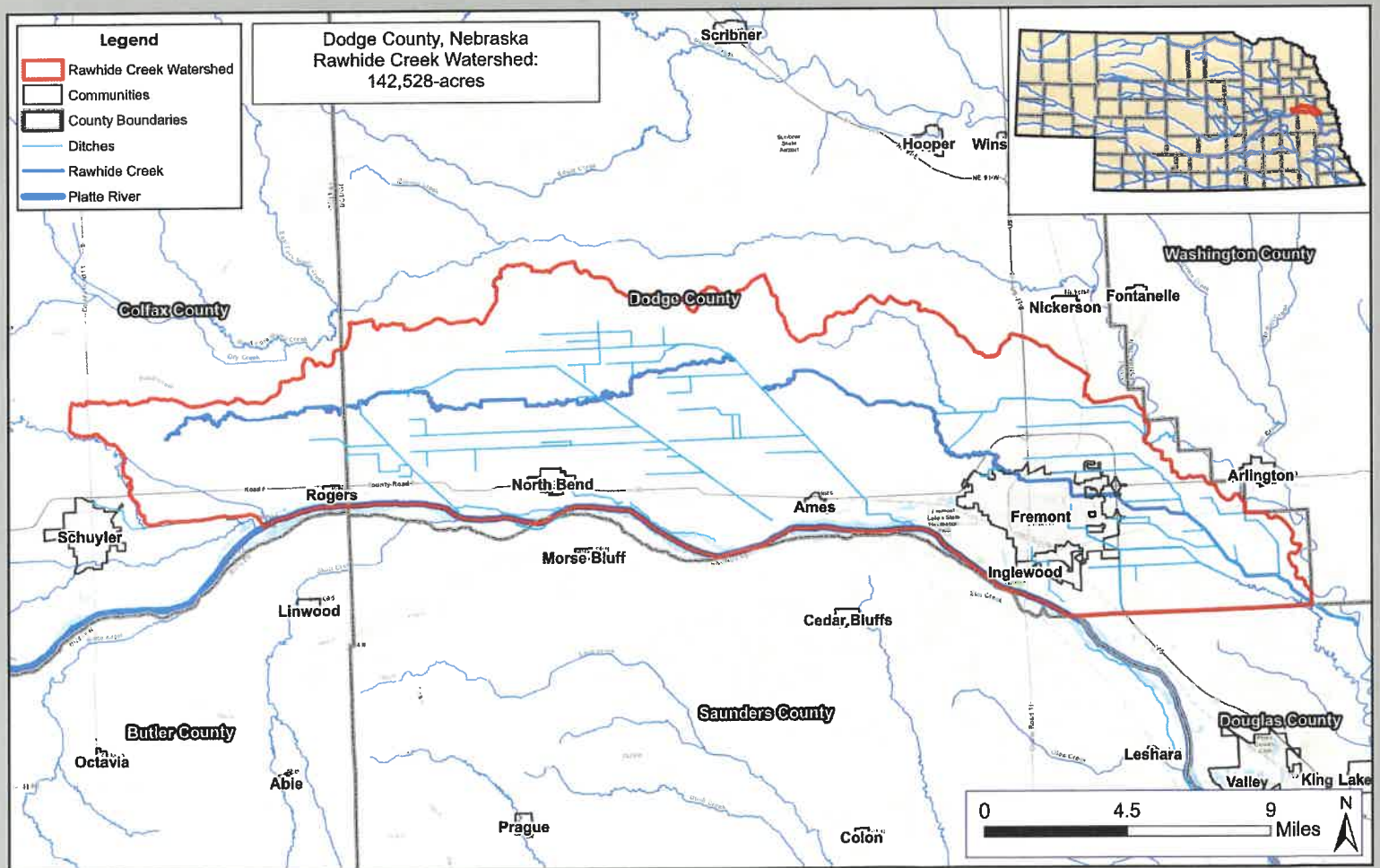
Rawhide Creek

WATERSHED FLOOD RISK REDUCTION PLAN

Project Overview

The Rawhide Creek Watershed is subject to multiple flooding risks – from local storms over the watershed to potential overflows from Shell Creek, the Platte River, and Elkhorn River.

- The watershed covers more than 142,000 acres in eastern Nebraska through Colfax and Dodge Counties, and Rawhide Creek spans approximately from northwest of the Village of Rogers to east of the City of Fremont.
- The March 2019 catastrophic flooding along the Platte and Elkhorn Rivers and their tributaries, including Rawhide Creek, affected the communities of North Bend, Fremont, and Inglewood.
- The Dodge County Joint Water Management Advisory Board (JWMAB) was created following the 2019 floods to support inter-agency collaborative efforts to identify and implement measures to reduce area flood risks.



Project Purpose

Dodge County is partnering with the Natural Resources Conservation Service (NRCS) to develop the Rawhide Creek Watershed Work Plan – Environmental Assessment (Plan-EA). The Plan-EA will be used to help document existing flooding problems, evaluate new strategies for flood reduction and watershed protection, and propose cost-effective ways to reduce flooding impacts. The planning process is tentatively scheduled to be completed in spring 2023.

Interested in learning more about the Rawhide Creek Watershed Flood Risk Reduction Plan?

Scan the QR code below with your phone's camera to visit the project website – learn more about the watershed, find out the alternatives, and give your input on the planning process so far.



Project Update

As of spring 2022, the Rawhide Creek Watershed Flood Risk Reduction Plan has completed evaluation of existing flooding conditions and will begin evaluating potential flood risk reduction alternatives.

- Hydrologic and hydraulic models were established based on available flooding information and public input to show the existing flood conditions within the watershed.
- These models helped the project team identify the key locations most at risk of flooding within the watershed.
- The next step in the planning process is to begin reviewing potential flood risk reduction alternatives, which could include but are not limited to channel and ditch improvements, detention cells, roadway raises.
- While the planning team reviews potential alternatives, the public is encouraged to provide input and feedback on these alternative options and continue to share flooding information to help assist in the planning process.



Contact Information

For more information, contact:

Tom Smith

Dodge County Emergency
Management Director

402-727-2785

dodgecoema@gmail.com

John Petersen, PE

JEO Consulting Group

402-392-9923

jpetersen@jeo.com



PROJECT WEBSITE: <https://arcg.is/0X9HTn>

POTENTIAL ALTERNATIVES

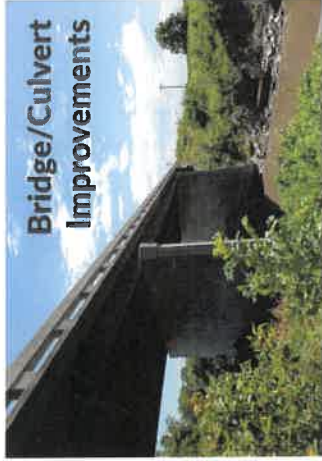
At this time, no preferred alternative or project locations have been identified, and all risk reduction options remain on the table. Below are examples of potential alternatives.



No Action



Levees/Berms



Bridge/Culvert Improvements



Cropland Conversion



Dams



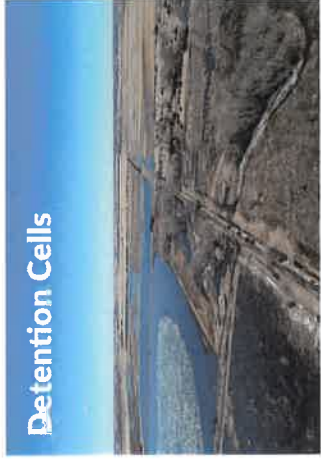
Diversion Channels



BMPs



Combination of Alternatives or Other as Identified



Detention Cells



Channel Widening, Removal of Channel Constraints



Structure Retrofitting or Property Buyout



Wetland or Oxbow Storage/Restoration

DODGE COUNTY FLOOD PREVENTION PROJECT

APRIL 14, 2022
OPEN HOUSE COMMENT FORM



1. How did you hear about tonight's meeting?

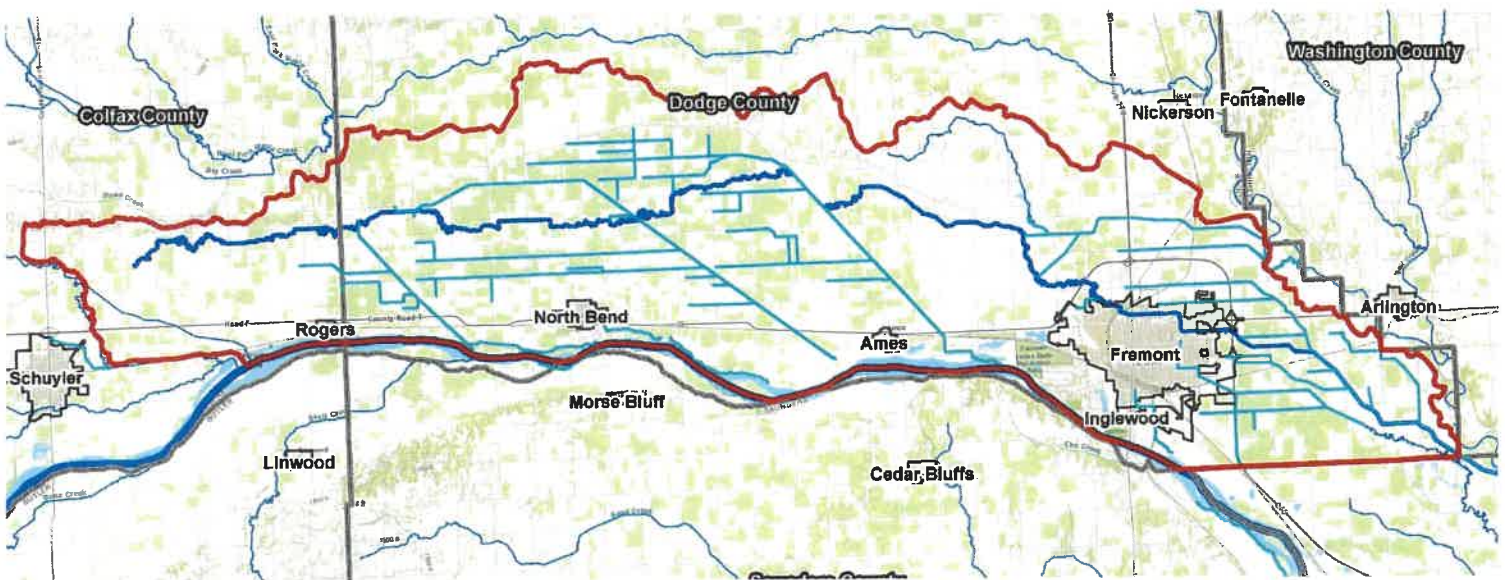
2. Based on the list below, please choose the alternatives you think are most appropriate to help reduce flooding in the Rawhide Creek Watershed:

- | | |
|---|--|
| <input type="checkbox"/> Dams | <input type="checkbox"/> Diversion Channels |
| <input type="checkbox"/> Detention Cells | <input type="checkbox"/> Levees/berms |
| <input type="checkbox"/> Channel Widening | <input type="checkbox"/> Bridge/culvert Improvements |
| <input type="checkbox"/> Other _____ | |

3. Would you be willing to have one (or more) of these alternatives located on your property? Please explain.

Yes ___ No ___

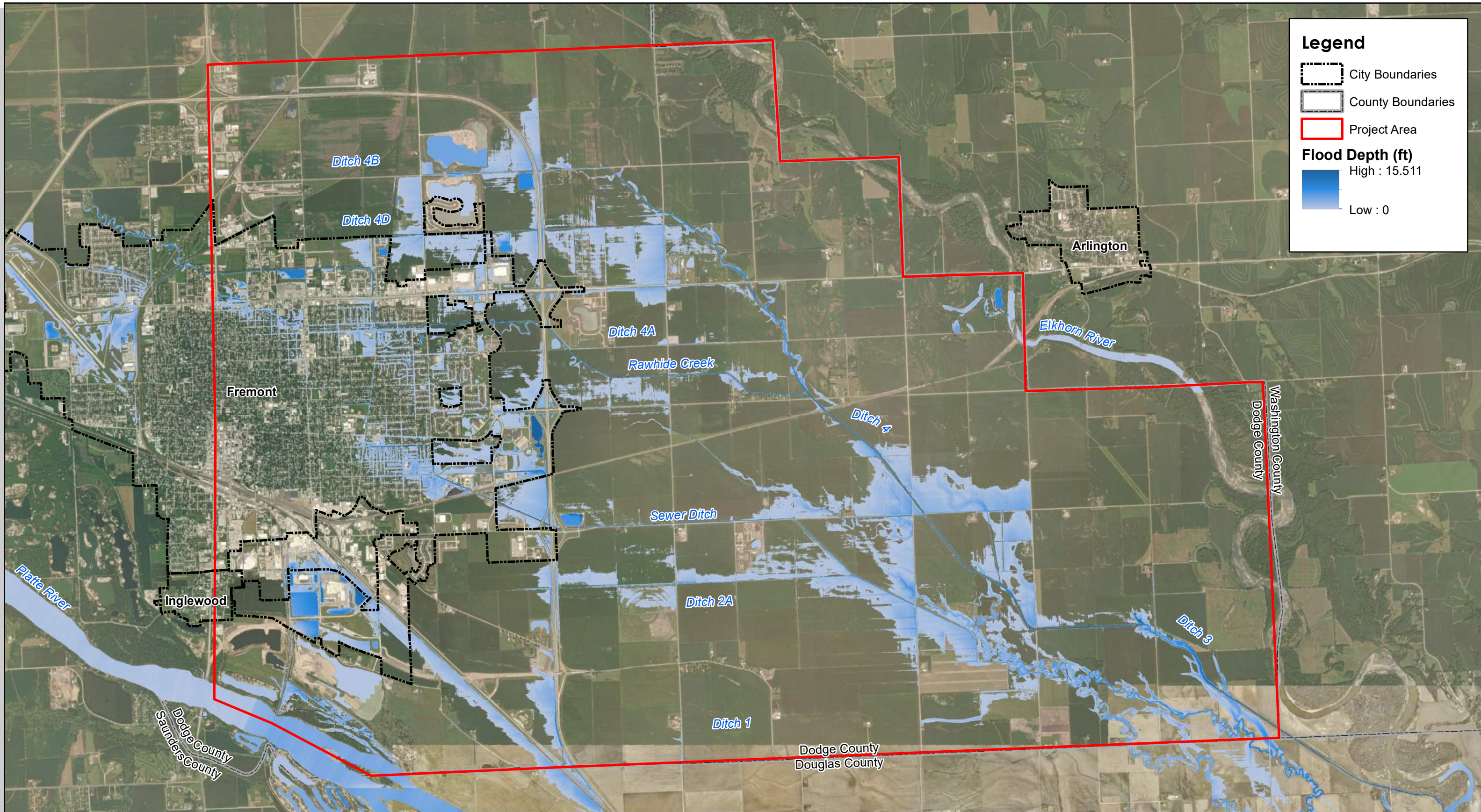
4. Please indicate locations on the watershed map, which type of alternatives you think are appropriate and where they should be located:



Continued on back

Drop your completed comment in the box or send via email to Alyssa Tenorio at atenorio@jeo.com.





Legend

- City Boundaries
- County Boundaries
- Project Area

Flood Depth (ft)

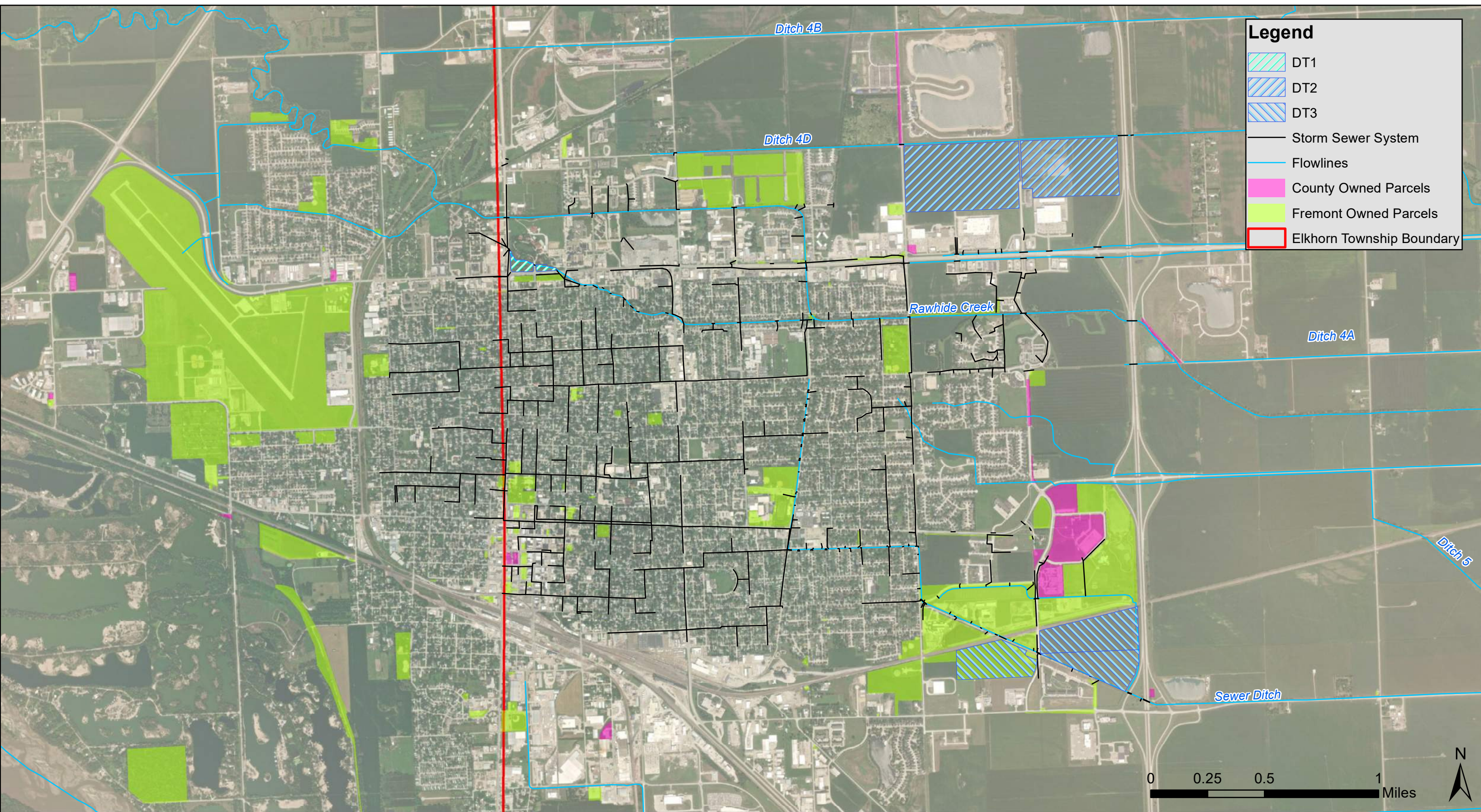
- High : 15.511
- Low : 0

Created By: BP
 Date: 3/21/22
 Revised: 3/23/22
 Software: ArcGIS 10.8.1

Existing Conditions - 5 Year Storm

Elkhorn Township Drainage Improvements

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plat.



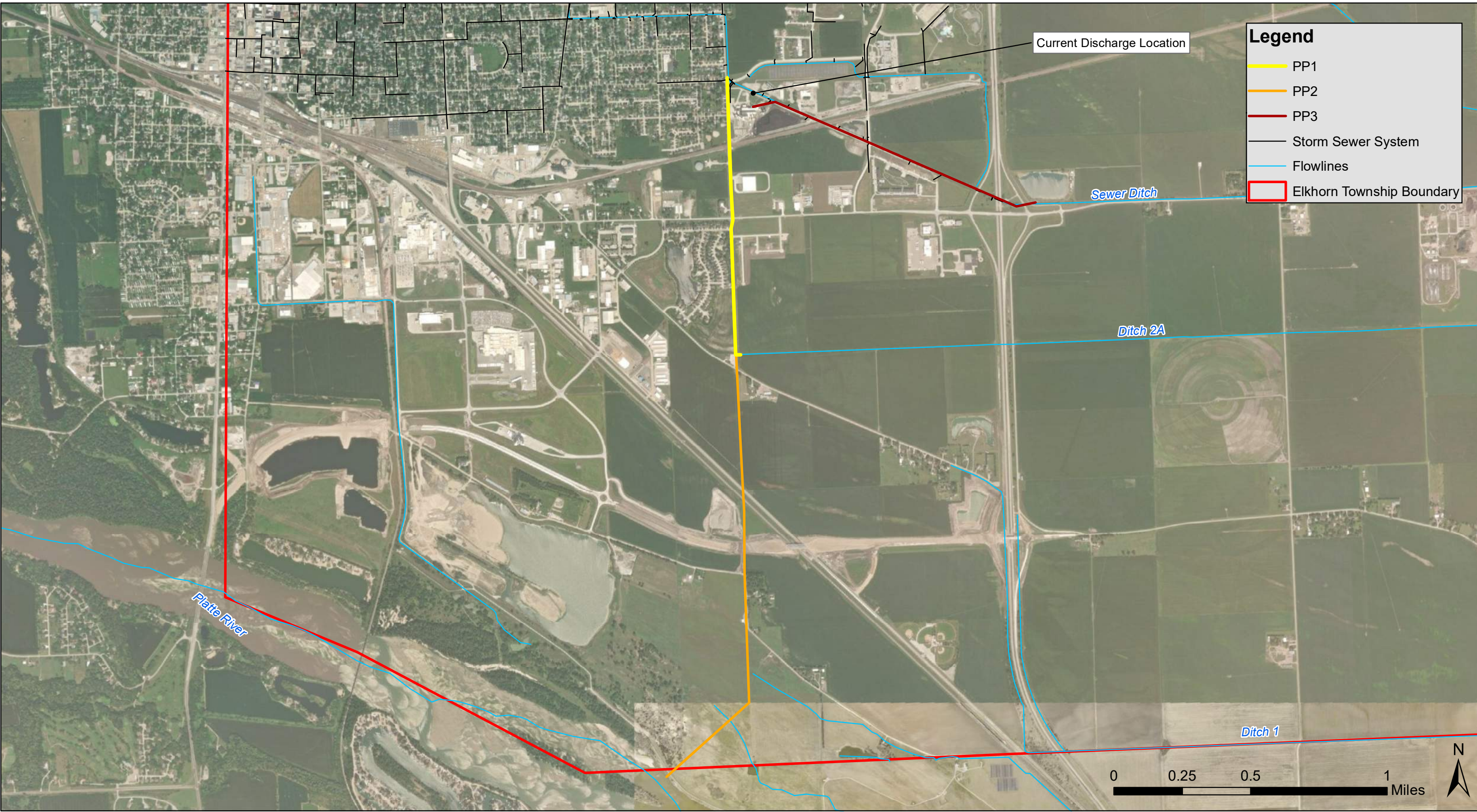
Created By: CEO
 Date: 3/24/2022
 Software: ArcGIS 10.8.1

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plot.

Detention Working Alternatives

Elkhorn Township Drainage Improvements





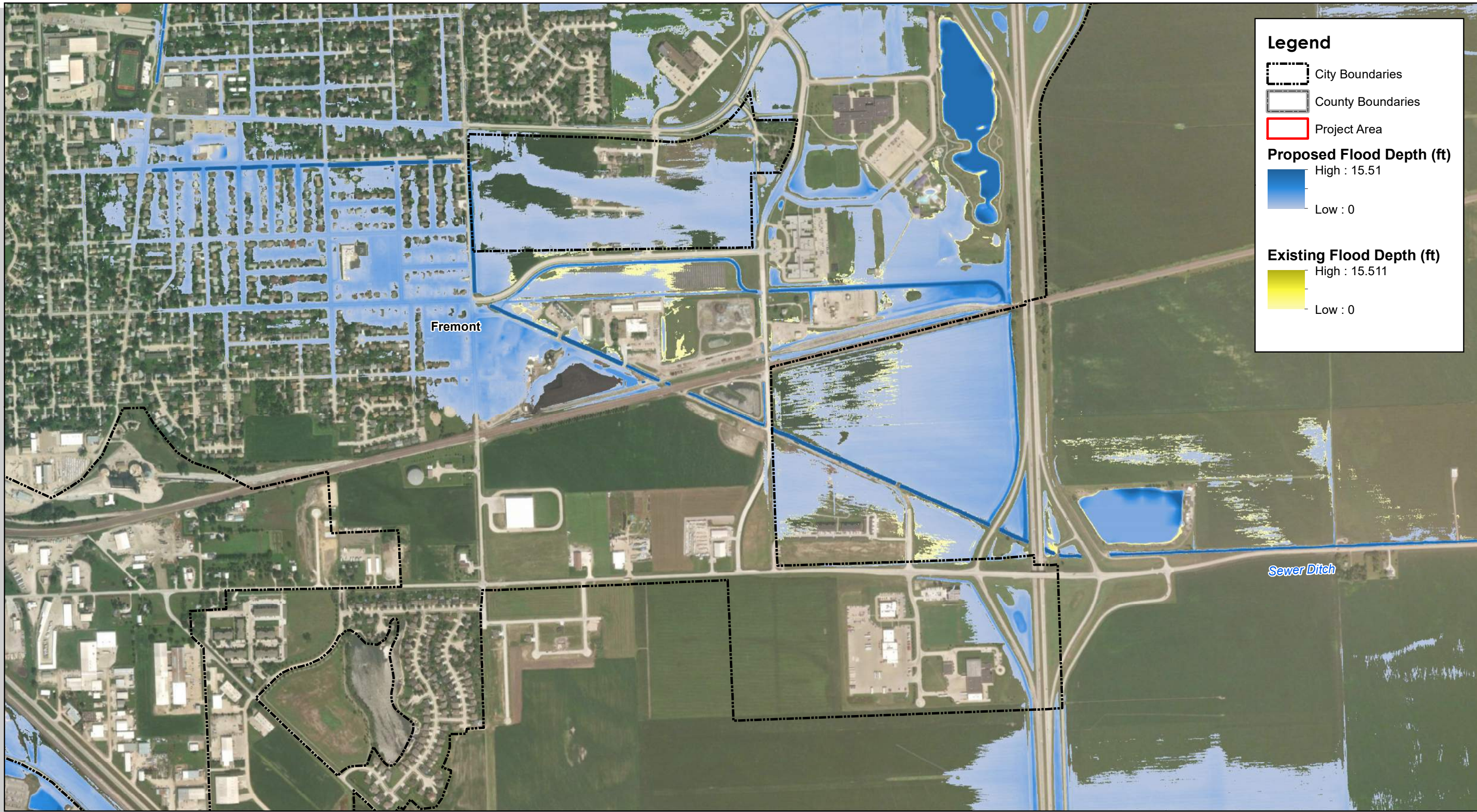
Created By: CEO
 Date: 3/24/2022
 Software: ArcGIS 10.8.1

Power Plant Discharge Working Alternatives

Elkhorn Township Drainage Improvements

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plot.





Legend

- City Boundaries
- County Boundaries
- Project Area

Proposed Flood Depth (ft)

- High : 15.51
- Low : 0

Existing Flood Depth (ft)

- High : 15.51
- Low : 0

Created By: CEO
 Date: 3/25/22
 Updated: 3/27/22
 Software: ArcGIS 10.8.1




Proposed Remove Power Plant Discharge (D2) - 5 Year Storm

Elkhorn Township Drainage Improvements




This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plat.

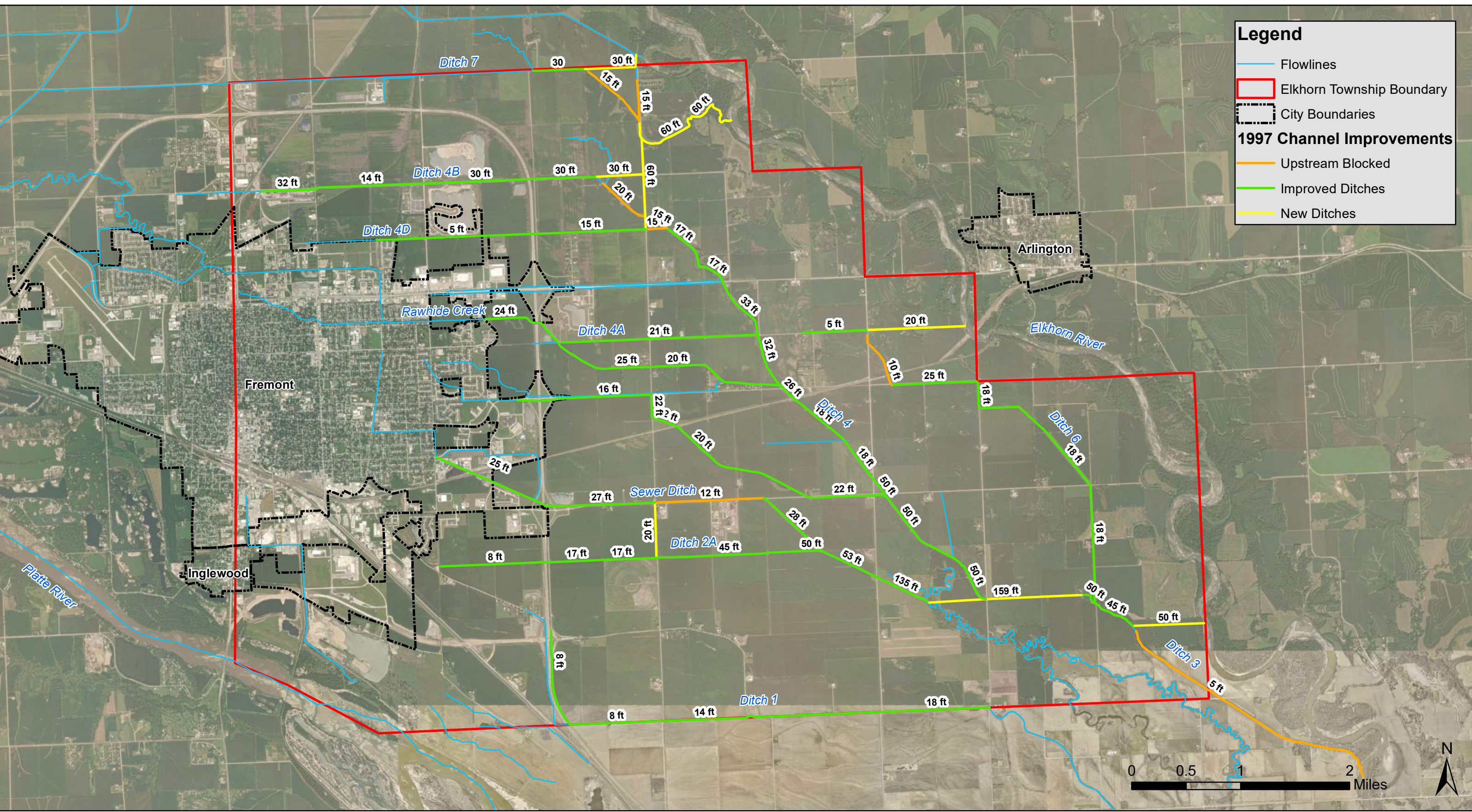
JEO CONSULTING GROUP INC

Legend

-  Flowlines
-  Elkhorn Township Boundary
-  City Boundaries

1997 Channel Improvements

-  Upstream Blocked
-  Improved Ditches
-  New Ditches



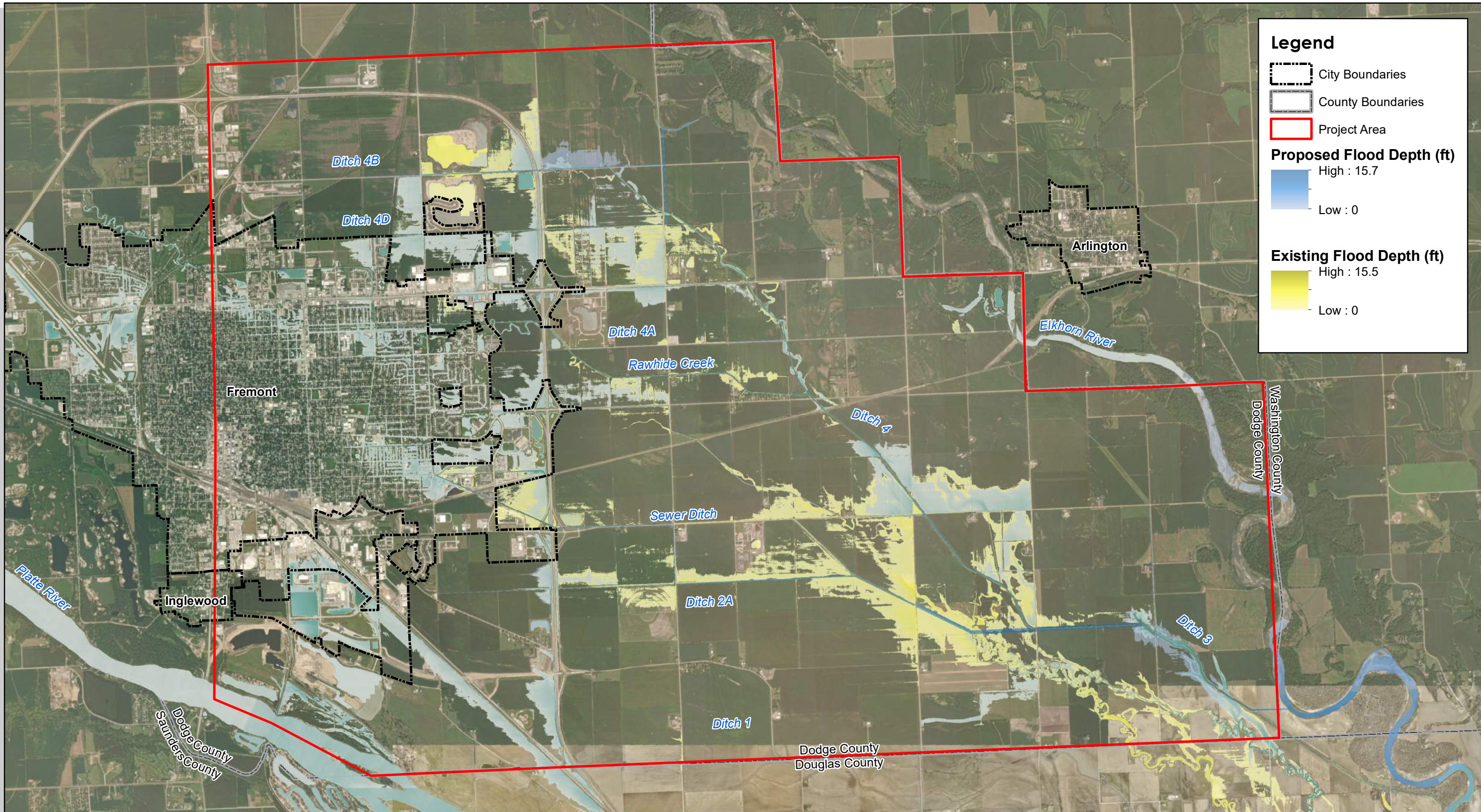
Created By: CEO
 Date: 3/24/2022
 Software: ArcGIS 10.8.1

1997 Study Recommendations

Elkhorn Township Drainage Improvements

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plot.





Legend

- City Boundaries
- County Boundaries
- Project Area

Proposed Flood Depth (ft)

- High : 15.7
- Low : 0

Existing Flood Depth (ft)

- High : 15.5
- Low : 0

Created By: CEO
 Date: 3/24/22
 Software: ArcGIS 10.8.1

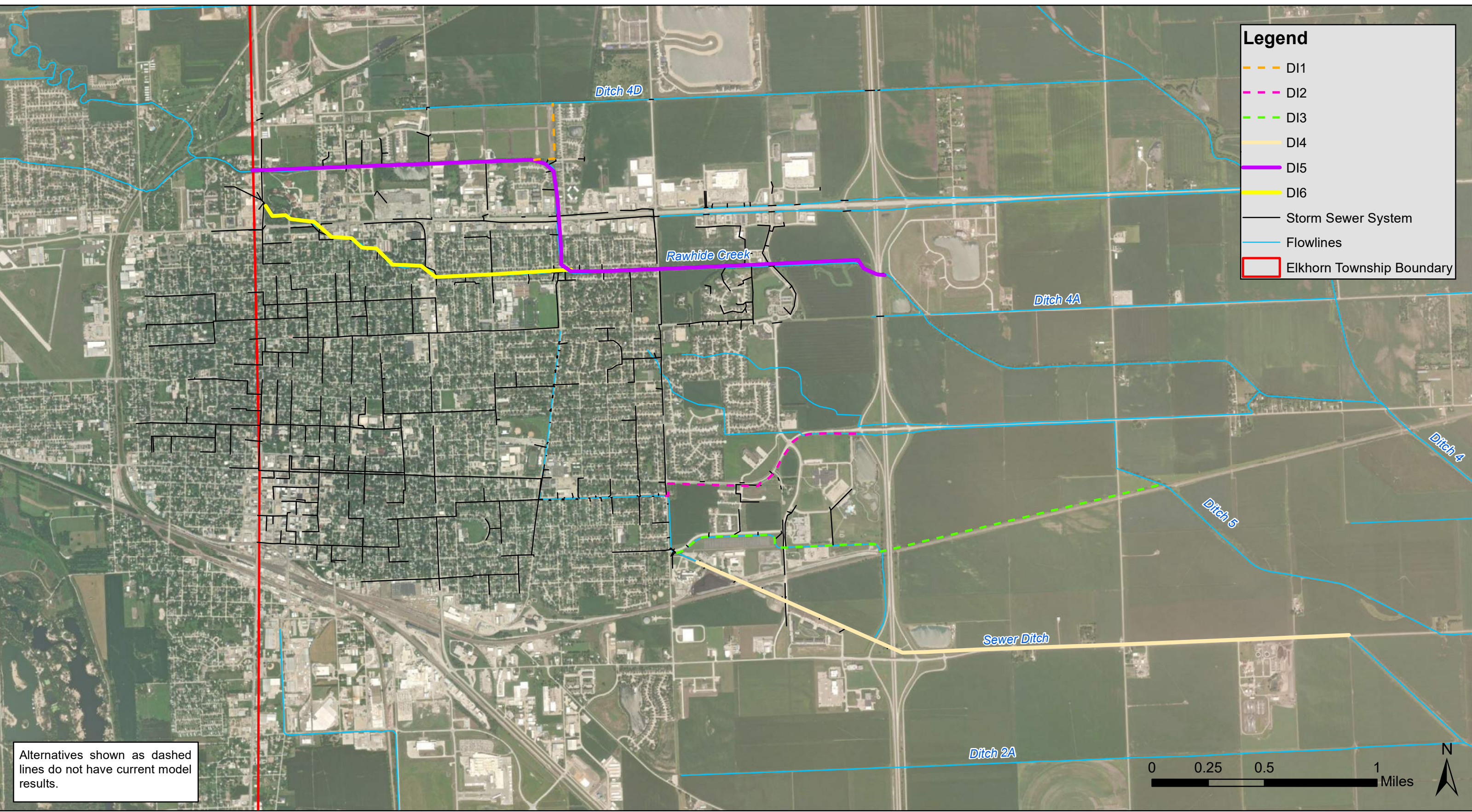
1997 Improvements - 5 Year Storm

Elkhorn Township Drainage Improvements

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plat.

Legend

- DI1
- DI2
- DI3
- DI4
- DI5
- DI6
- Storm Sewer System
- Flowlines
- Elkhorn Township Boundary



Alternatives shown as dashed lines do not have current model results.

Created By: CEO
 Date: 3/24/2022
 Software: ArcGIS 10.8.1

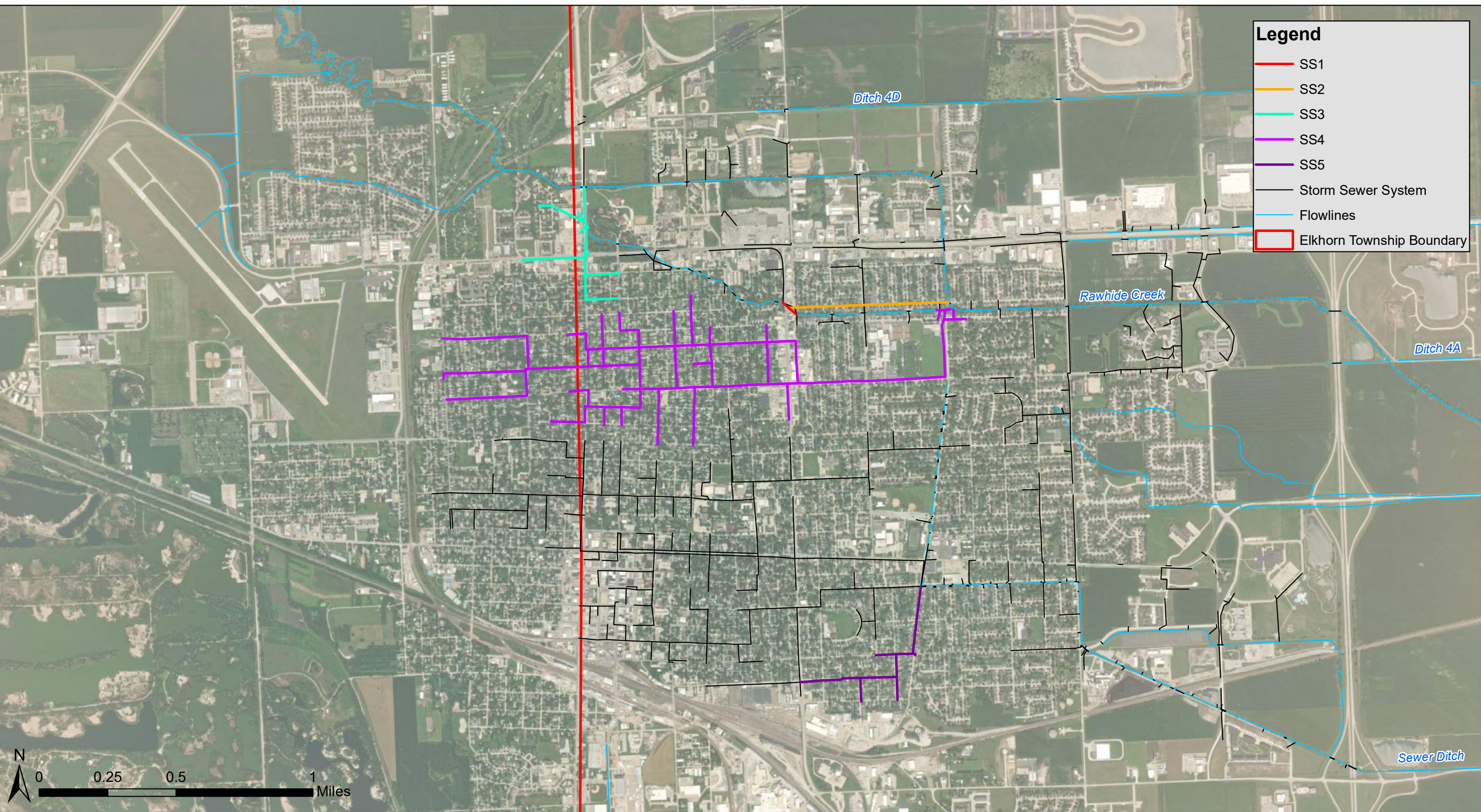
This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plot.

Ditch Working Alternatives

Elkhorn Township Drainage Improvements



- Legend**
- SS1
 - SS2
 - SS3
 - SS4
 - SS5
 - Storm Sewer System
 - Flowlines
 - Elkhorn Township Boundary



Created By: CEO
 Date: 3/24/2022
 Software: ArcGIS 10.8.1

Storm Sewer Working Alternatives

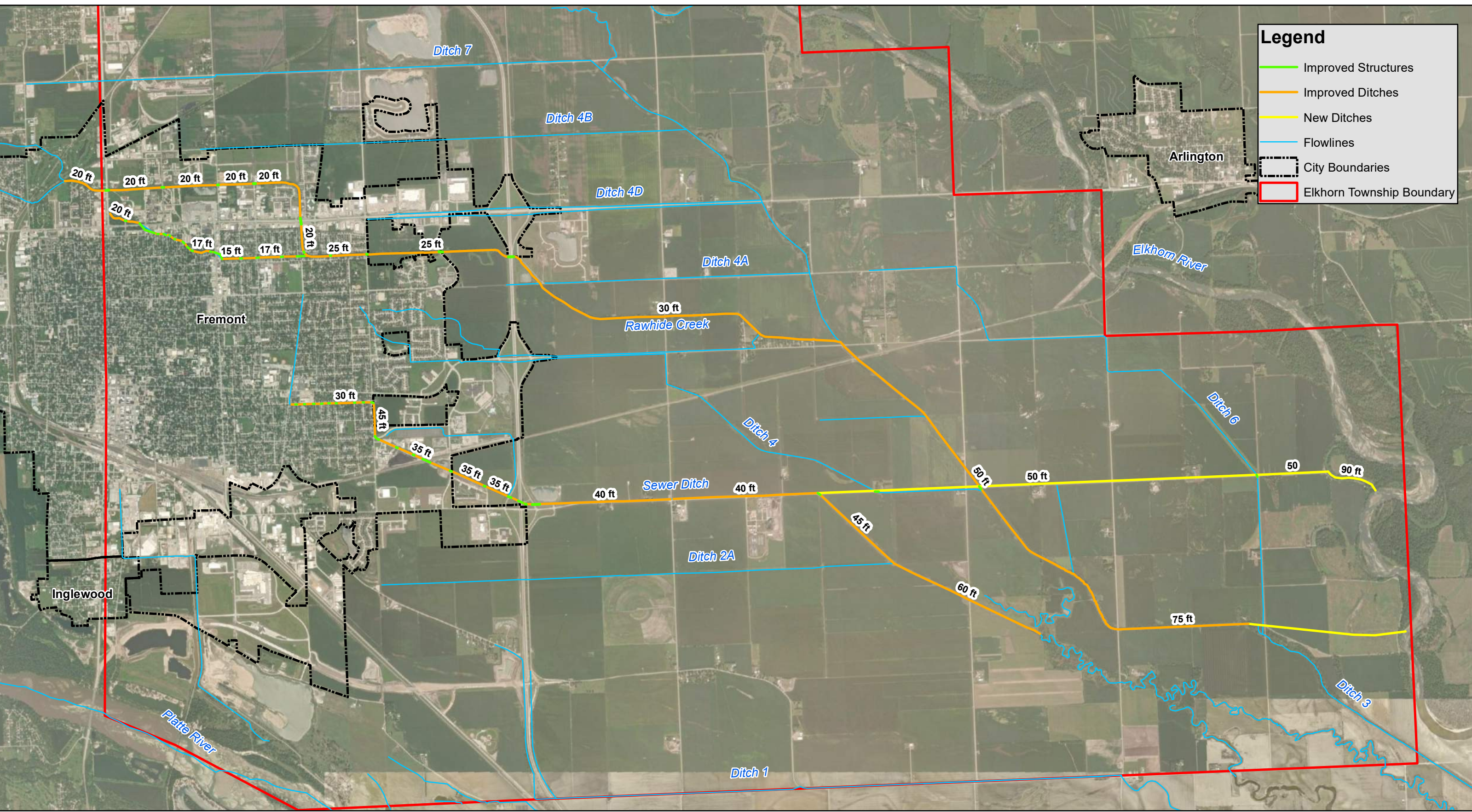
Elkhorn Township Drainage Improvements

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Legend

- Improved Structures
- Improved Ditches
- New Ditches
- Flowlines
- City Boundaries
- Elkhorn Township Boundary



Created By: CEO
 Date: 3/27/2022
 Software: ArcGIS 10.8.1

Working Alternative (DI4, DI5, DI6 & 1997 Modified)

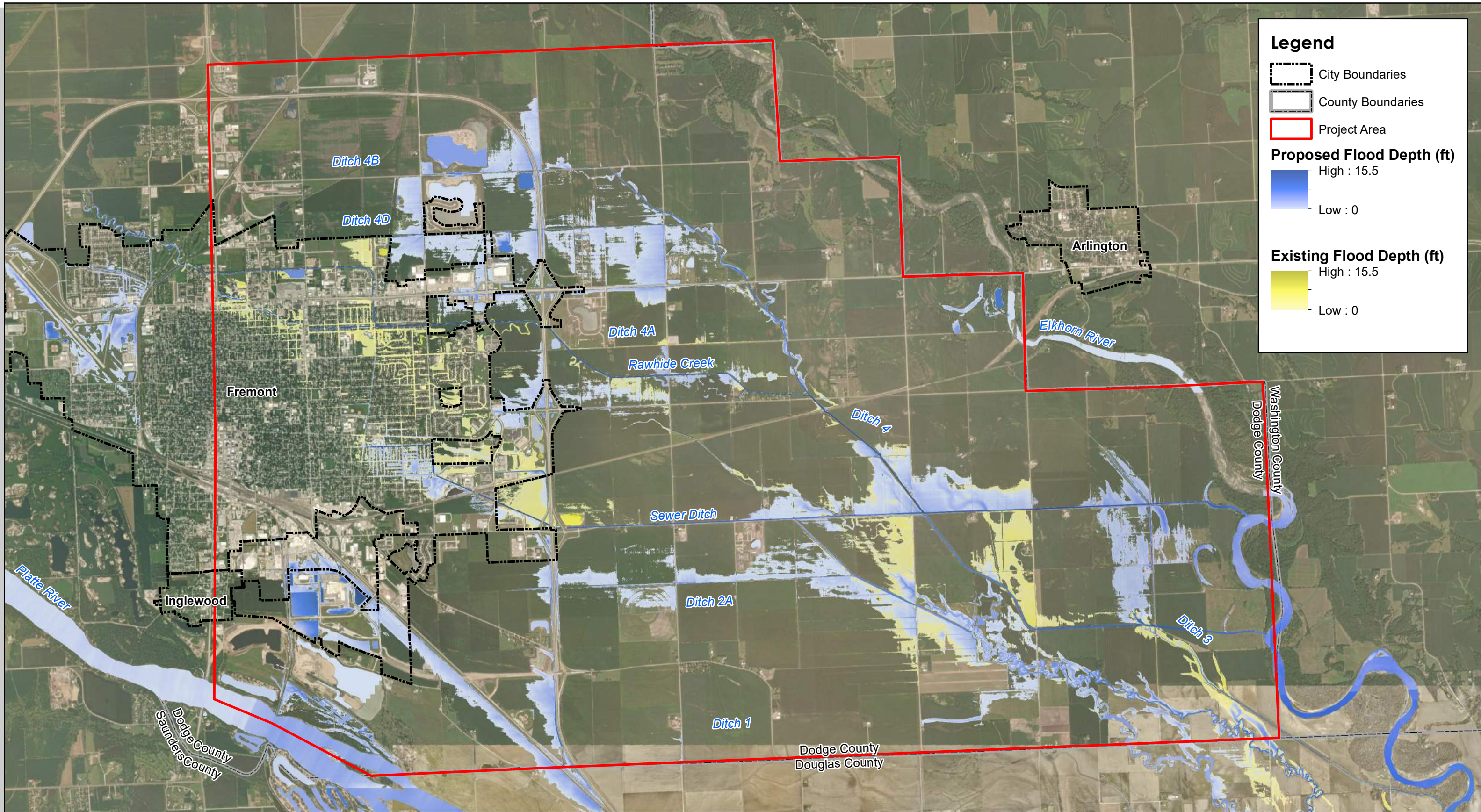
Elkhorn Township Drainage Improvements

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0 0.5 1 2

Miles

JEO CONSULTING GROUP INC.



Legend

- City Boundaries
- County Boundaries
- Project Area

Proposed Flood Depth (ft)

- High : 15.5
- Low : 0

Existing Flood Depth (ft)

- High : 15.5
- Low : 0

Created By: CEO
 Date: 3/28/22
 Software: ArcGIS 10.8.1

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Working Alternative - 5 Year Storm

Elkhorn Township Drainage Improvements



Meeting Agenda

DATE AND TIME | March 28, 2022 @ 1:00

PROJECT | Dodge County – Elkhorn Township Drainage Improvement
JEO Project #181941.00

MEETING | Alternate Project Review

LOCATION | Dodge County Emergency Management Office

1. Review of Dodge County – Elkhorn Township Drainage Improvement (From HMGP Application)
 - a. “A project study will be completed to assess Fremont's internal drainage needs and examine the out-letting drainage ditch system in the Elkhorn Township area east of Fremont. This project will assess the holistic situation and propose project alternatives to be pursued.”
 - i. Project goal – Improve stormwater conveyance out of Fremont safely and effectively to reduce potential for damages within Fremont and agricultural areas east of Fremont.
2. Goal of today’s meeting
 - i. **Review areas of flooding within Fremont and areas east of town**
 - ii. **Review alternates that have been preliminarily evaluated to date**
 1. **Review effectiveness of alternatives**
 2. **Eliminate alternatives that do not significantly reduce risk or are otherwise not practical**
 - iii. **Identify alternatives to move forward for further evaluation and screening**
3. Review of existing conditions
 - i. 5-year flood results (see attached “Existing Conditions – 5 Year Storm”)
 1. 2-year, 10-year, 25-year scenarios have also been run and will be needed for eventual BCA but for simplicity, 5-year results are included in this discussion.
 2. Assumption that Rawhide Creek upstream of town is/will be addressed.
 3. Focus on how stormwater generated within Fremont is conveyed to Elkhorn River
 - ii. Project Goals – Flood Risk Reduction
 1. Urban Areas In Fremont
 - a. Northeast Fremont
 - b. Southeast Fremont
 2. Rural Dodge Co. East of Highway 275
4. Process to Select Preferred Alternative
 - a. Identify alternatives
 - b. Evaluate effectiveness of alternatives in achieving project goal
 - i. In the event that one singular alternative does not by itself achieve goal – develop a package of improvements that do.
 - c. Optimize improvement for FEMA BCA
 - d. Identify potential funding options for non-FEMA eligible or other projects
5. Flood Risk Reduction Alternatives (See attached packet)
 - a. Regional De-watering System (groundwater pumping)
 - i. Groundwater depths in areas of east Fremont (areas of concern) are 8’ – 10’ deep (existing well log information)

- ii. Groundwater depth is generally at or below the level of existing ditches west of Highway 275
- iii. Groundwater de-watering would require pumping with numerous high-capacity wells. This would require a constant discharge to open ditch or new pipeline – without significant improvements to conveyance system alternative would make flooding conditions in eastern Dodge Co. worse.
- iv. Groundwater de-watering is not a permanent solution. Groundwater levels would respond almost immediately if there is an interruption in service of the wells/pumps
- v. **Recommend not continuing with this alternative**
- b. Gravity Flow Diversion to Platte River
 - i. Looked at potentially diverting flow with a new ditch beginning at roughly 1st & Luther Rd. southerly to Platte River.
 - ii. Flowline Elevation of existing ditch and contributing storm sewer is approximately 5’ lower than the Platte River.
 - iii. Any alignment going southerly to the Platte would be going uphill making gravity flow impossible.
 - iv. **Recommend not continuing with this alternative**
- c. Regional Detention
 - i. See attached “Detention Working Alternatives”
 - ii. Review publicly owned property within and adjacent to Fremont City Limits
 - iii. No appreciable difference in flood extents or depths
 - iv. Additional detention further upstream (west) in Rawhide Creek watershed is a separate alternative currently being reviewed as part of the Rawhide Creek WFPO
 - v. **Recommend not continuing with this evaluation**
- d. Re-alignment of Power Plant cooling water
 - i. See attached “Power Plant Discharge Working Alternatives” and **“Proposed Removal Power Plant Discharge (D2) – 5 Year Storm”**
 - ii. Currently cooling water is pumped/dumped into the Sewer Ditch along 1st St. northwest of railroad crossing
 - iii. Information from EPA records indicate a maximum pumping rate of 45 cfs and historical information indicates that a similar rate is common
 - 1. Downstream railroad culvert has ~ 80 cfs capacity
 - 2. Cooling water is a significant portion of this capacity
 - iv. Three potential options
 - 1. Re-route to ditch 2A to relive Sewer Ditch
 - 2. Enclosed forcemain south to Platte River
 - a. Completely remove from Rawhide/Elkhorn Township system
 - 3. Extend forcemain parallel to Sewer Ditch outlet just east of Highway 275
 - a. Flows remain in Sewer Ditch/Rawhide system
- e. 1997 Proposed Improvements
 - i. See attached **“1997 Study Recommendations”** and **“1997 Improvements – 5 Year Storm”**
 - ii. Ditch improvements focused East of Highway 275 no improvements to urban areas within Fremont
 - iii. Improvements are very extensive and include some widening to nearly every ditch
 - iv. New cutoffs/outlets to Elkhorn River also included
 - v. Scope/Scale of improvements interpreted from previous model output provided by LPN NRD
 - vi. Does show benefit to rural eastern areas but little improvement to urban areas within Fremont
 - vii. Some improvements may be challenging with recent development and some of the proposed ditch improvements likely are unnecessary
- f. Improvement to western ditches/culverts
 - i. See attached **“Ditch Working Alternatives”**



- ii. Improved conveyance thru Highway 275 and railroad
- iii. Some improvement within urban areas of Fremont
- iv. Remaining flooding primarily caused by backwater impacts in rural ditch network
- v. Without carrying improvements to the Elkhorn River, increases flows/ponding in rural ditch network
- g. Storm Sewer Improvements to North and South System
 - i. See attached Storm **“Sewer Working Alternatives”**
 - ii. Five separate scenarios reviewed
 - 1. Remove/Replace with bigger trunk line
 - 2. Remove/Replace Existing culverts
 - 3. New parallel trunk storm sewer
 - iii. As a standalone project(s) very little improvement
 - iv. Urban flooding/ponding is being driven by backwater
- 6. Flood Risk Reduction Package (Combination of Alternatives)
 - a. Most impactful project is likely a combination of the above alternatives
 - b. See attached **“Working Alternatives”**
 - i. Re-alignment of Power Plant cooling water
 - ii. Modified 1997 Improvements
 - iii. North/South urban ditches west of Highway 275
 - c. Potential Future Phases
 - i. Internal Storm Sewer System Improvements
- 7. Next Steps – Elkhorn Township specific
 - a. Optimize selected alternative
 - b. Phased implementation plan
 - i. Review benefits at completion of each phase
 - c. Detailed Cost Opinion
 - d. Review regulatory impacts
 - e. Review ROW/Easement needs
 - f. Benefit Cost Analysis
- 8. Rawhide WFPO Items
 - a. Story Map Review/RAS Results
 - b. 30% Progress Meeting on Wednesday March 30 @ 1:00
 - c. JWMAB Meeting April 13
 - d. Rawhide Creek Open House April 14

SANITARY & IMPROVEMENT DISTRICT NO. 8
OF SAUNDERS COUNTY, NEBRASKA

Lonnie Mahrt, Chairman
Tom Sawyer, Clerk

Lot T-1018, Suite A
980 County Road W
Fremont, Nebraska 68025

Mary Schlosser, Secretary
Ph. 402-753-0247
sid8@woodcliffakes.com

March 23, 2022

Mr. Eric Gottschalk
General Manager
Lower Platte North Natural Resources District
511 Commercial Park Rd.
Wahoo, NE 68066

RE: Bank Stabilization near Lagoons (FEMA PA Project) Cost Share

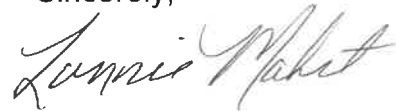
Dear Mr. Gottschalk,

Within the past several months, SID #8 substantially completed the Bank Stabilization near Lagoons Project placing 9 weirs and approximately 900 feet of peaked stone toe protection along the Woodcliff riverfront property. The project was fully permitted through both USACE Section 404 and Saunders County Planning and Zoning, Floodplain section prior to starting work.

We appreciate the NRD's support and assistance with this project and request the payment of the previously approved cost-share assistance in the amount of \$40,000.

Please feel free to call me at 1-402-680-4953 or Jake Miriovsky at JEO Consulting Group, Inc. at (402) 367-2540 if you have any questions.

Sincerely,



Lonnie Mahrt
Chairman, SID #8

Attachment: Payment Application No. 1

Progress Estimate

Contractor's Application

For (Contract):		Bank Stabilization Improvements		Application Number: 1										
Application Period:		Through 2/23/22		Application Date: 2/25/2022										
A			B		C		D		E		F		G	
Bid Item No.	Item Description	Item Quantity	Contract Information			Estimated Quantity Installed	Value of Work Installed to Date	Materials Presently Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F / B)	Balance to Finish (-F)			
			Units	Unit Price	Total Value of Item (\$)									
BASE BID														
1	Mobilization	1	LS	\$9,600.00	\$9,600.00	1	\$9,600.00		\$9,600.00	100.0%				
2	Bonding and Insurance	1	LS	\$9,360.00	\$9,360.00	1	\$9,360.00		\$9,360.00	100.0%				
3	Site Grading	1	LS	\$21,178.25	\$21,178.25							\$21,178.25		
4	Clearing and Grubbing	1	LS	\$1,783.97	\$1,783.97	1	\$1,783.97		\$1,783.97	100.0%				
5	Riprap, NDOT Type C	3,296	TON	\$77.62	\$255,835.52	3019.75	\$234,393.15		\$234,393.15	91.6%	\$21,442.37			
6	Surge/Erosion Stone	2,198	TON	\$73.14	\$160,761.72	2013.17	\$147,243.11		\$147,243.11	91.6%	\$13,518.61			
7	Crushed Rock Base Course	115	TON	\$77.69	\$8,934.35	99.73	\$7,748.02		\$7,748.02	86.7%	\$1,186.33			
8	Coarse Aggregate	232	TON	\$48.13	\$11,166.16						\$11,166.16			
9	Live Pole Plantings	1,842	LF	\$9.60	\$17,683.20						\$17,683.20			
10	Erosion Control	1	LS	\$3,300.00	\$3,300.00						\$3,300.00			
11	Seeding and Mulching, Native Mix	1	AC	\$5,400.00	\$5,400.00						\$5,400.00			
12	Seeding and Mulching, Floodplain Mix	0.4	AC	\$5,400.00	\$2,160.00						\$2,160.00			
CHANGE ORDERS														
		1	LS											
		1	LS											
		1	LS											
Totals					\$507,163.17		\$410,128.25		\$410,128.25	80.9%	\$97,034.92			

SANITARY & IMPROVEMENT DISTRICT NO. 8
OF SAUNDERS COUNTY, NEBRASKA

Lonnie Mahrt, Chairman
Tom Sawyer, Clerk

Lot T-1018, Suite A
980 County Road W
Fremont, Nebraska 68025

Mary Schlosser, Secretary
Ph. 402-753-0247
sid8@woodcliffakes.com

March 23, 2022

Mr. Eric Gottschalk
General Manager
Lower Platte North Natural Resources District
511 Commercial Park Rd.
Wahoo, NE 68066

RE: Bank Stabilization near Lots 1142-1134 Cost Share

Dear Mr. Gottschalk,

Within the past several months, SID #8 substantially completed the Bank Stabilization near Lots 1142 – 1134 Project placing 6 weirs and approximately 500 feet of peaked stone toe protection along the Woodcliff riverfront property. The project was fully permitted through both USACE Section 404 and Saunders County Planning and Zoning, Floodplain section prior to starting work.

We appreciate the NRD's support and assistance with this project and request the first of three payments of the previously approved cost-share assistance in the amount of \$35,000. The total amount of cost share approved was \$105,000, to be paid in three installments of \$35,000 per year.

Please feel free to call me at 1-402-680-4953 or Jake Miriovsky at JEO Consulting Group, Inc. at (402) 367-2540 if you have any questions.

Sincerely,



Lonnie Mahrt
Chairman, SID #8

Attachment: Payment Application No. 2

Contractor's Application for Payment No. 2

To (Owner):	Saunders County SID No. 8	From (Contractor):	Sawyer Construction Co.	Application Date:	2/1/2022	Via (Engineer):	JFO Consulting Group, Inc.
Project:	Bank Stabilization near Lots 1142 - 1134	Contract:	Bank Stabilization near Lots 1142 - 1134	Contractor's Project No.:		Engineer's Project No.:	210511.00
Owner's Contract No.:		Contractor's Project No.:					

Application For Payment Change Order Summary

Approved Change Orders	Number	Additions	Deductions	NET CHANGE BY CHANGE ORDERS
	CO1		\$788.79	
TOTALS			\$788.79	
				- \$788.79

Contractor's Certification

The undersigned Contractor certifies, to the best of its 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.

220 W Clark Fremont NE
 Contractor Address: *[Signature]*
 Contractor Signature: *[Signature]*
 By: *Tom B Sawyer* Date: *2-3-22*

- ORIGINAL CONTRACT PRICE..... \$ 216,185.00
- Net change by Change Orders..... \$ -788.79
- Current Contract Price (Line 1 + 2)..... \$ 215,396.21
- TOTAL COMPLETED AND STORED TO DATE
(Column F total on Progress Estimates)..... \$ 199,671.21
- RETAINAGE:
 - a. 10% X \$107,698.11 Work Completed..... \$ 10,769.81
 - b. 10% X Stored Material..... \$ 10,769.81
 - c. Total Retainage (Line 5.a + Line 5.b)..... \$ 188,901.40
- AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)..... \$ 96,623.37
- LESS PREVIOUS PAYMENTS (Line 6 from prior Application)..... \$ 92,278.03
- AMOUNT DUE THIS APPLICATION..... \$ 26,494.81
- BALANCE TO FINISH, PLUS RETAINAGE
(Column G total on Progress Estimates + Line 5.c above)..... \$ 26,494.81

Payment of: \$ 92,278.03 (Line 8 or other - attach explanation of the other amount)

is recommended by: *[Signature]* (Engineer) 2/3/2022 (Date)

Payment of: \$ 92,278.03 (Line 8 or other - attach explanation of the other amount)

is approved by: *[Signature]* (Owner) 2/3/2022 (Date)

Approved by: _____ (Date)

Funding or Financing Entity (if applicable) _____ (Date)

Progress Estimate

Contractor's Application

For (Contract):		Bank Stabilization near Lots 1142 - 1194				Application Number: 2							
Application Period:		Through 2/1/2022				Application Date: 2/1/2022							
A		B		C		D		E		F		G	
Bid Item No.	Item Description	Item Quantity	Units	Unit Price	Total Value of Item (\$)	Estimated Quantity Installed	Value of Work Installed to Date	Materials Presently Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F / B)	Balance to Finish (-F)	(B)	
BASE BID													
1	Mobilization	1	LS	\$5,000.00	\$5,000.00	1	\$5,000.00		\$5,000.00	100.0%			
2	Bonding and Insurance	1	LS	\$5,000.00	\$5,000.00	1	\$5,000.00		\$5,000.00	100.0%			
3	Site Grading	1	LS	\$6,000.00	\$6,000.00	1	\$6,000.00		\$6,000.00	100.0%			
4	Clearing and Grubbing	1	LS	\$8,500.00	\$8,500.00	1	\$8,500.00		\$8,500.00	100.0%			
5	Riprap, NDOT Type C	1,400	TON	\$75.00	\$105,000.00	1400	\$105,000.00		\$105,000.00	100.0%			
6	Surge/Erosion Stone	950	TON	\$68.00	\$64,600.00	950	\$64,600.00		\$64,600.00	100.0%			
7	Crushed Rock Surfacing	60	TON	\$65.00	\$3,900.00								\$3,900.00
8	Crushed Rock Base Course	44	TON	\$65.00	\$2,860.00	44	\$2,860.00		\$2,860.00	100.0%			
9	Salvage and Reuse Existing Riprap	1	LS	\$2,000.00	\$2,000.00	1	\$2,000.00		\$2,000.00	100.0%			
10	Straw Wattle	750	LF	\$5.00	\$3,750.00								\$3,750.00
11	Seeding and Mulching, Floodplain Mix	1	AC	\$8,075.00	\$8,075.00								\$8,075.00
12	Traffic Control	1	LS	\$1,500.00	\$1,500.00	1	\$1,500.00		\$1,500.00	100.0%			
CHANGE ORDERS													
CO1		1	LS		-\$788.79		-\$788.79		-\$788.79	100.0%			
Totals					\$215,396.21		\$199,671.21		\$199,671.21	92.7%			\$15,725.00