

**Environment and Natural Resources Trust Fund  
2018 Request for Proposals (RFP)**

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**Project Title:**

**ENRTF ID: 216-G**

East Fork Des Moines River Wetland Restoration

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**Category:** G. Land Acquisition, Habitat and Recreation

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**Total Project Budget:** \$ 1,716,192

**Proposed Project Time Period for the Funding Requested:** 5 years, July 2018 to June 2023

**Summary:**

The project includes the restoration and permanent protection of a 160-acre wetland, native buffer, and pollinator habitat along Martin County JD 50 within the East Fork Des Moines River watershed.

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**Name:** Michael Forstner

**Sponsoring Organization:** Martin County Drainage Authority

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Fairmont MN 56031

**Telephone Number:** (507) 238-3130

**Email** michael.forstner@co.martin.mn.us

**Web Address** www.co.martin.mn.us

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**Location**

**Region:** Southwest

**County Name:** Martin

**City / Township:** Manyaska Township

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**Alternate Text for Visual:**

East Fork Des Moines River Watershed Wetland Restoration along Martin County CD 11 and JD 50

_____ Funding Priorities	_____ Multiple Benefits	_____ Outcomes	_____ Knowledge Base
_____ Extent of Impact	_____ Innovation	_____ Scientific/Tech Basis	_____ Urgency
_____ Capacity Readiness	_____ Leverage	_____ TOTAL	_____ %



**PROJECT TITLE: East Fork Des Moines River Wetland Restoration**

**I. PROJECT STATEMENT**

The goals for the proposed project include the design, implementation, and permanent protection of a 160-acre wetland, native buffer, and pollinator habitat along Martin County Judicial Ditch 50 (JD 50) within the East Fork Des Moines River (EFDMR) watershed, a priority outlined in the Martin County Water Plan (MCWP). This project will also include long-term water quality monitoring and targeted community outreach, complementing existing outreach, also a component of the MCWP. Specific activities associated with this deliverable will be organizing a landowner meeting, creating an informational handout, and signage at the project site. We will also be conducting water quality monitoring for one year following completion of the project to build support for these practices among key constituencies.

In addition to flooding, a growing number of the watershed’s lakes and streams are impaired for turbidity, dissolved oxygen (DO), and nutrient/eutrophication biological indicators. According to data from the Minnesota Pollution Control Agency, DO in JD 50 and CD 11 has been trending down, posing a threat to fish populations in Lake Okamanpeedan. It is critical to take advantage of the opportunity to begin reversing this trend, as landowners are currently motivated to find solutions to flooding and water quality issues.

**II. PROJECT ACTIVITIES AND OUTCOMES**

**Activity 1: Purchase Land to be Held in Conservation Easement** **Budget: \$1,044,192**

Beginning in 2010, landowner meeting were initiated to discuss options for mitigating flood damages and addressing downstream water quality concerns. Through these meetings, it became evident there was interest in protecting and restoring the site to native prairie wetlands. This phase of the project includes working with landowners to permanently protect the 160-acre site through an easement, to be held and monitored by the Martin County Drainage Authority (MCDA).

<b>Outcome</b>	<b>Completion Date</b>
1. Acquire land through a purchased conservation easement; parcels to be included: Parcel ID: 120190200, Parcel ID: 120190400, Parcel ID: 120190700, Parcel ID: 120200500, Parcel ID: 120200300, Parcel ID: 120170500, Parcel ID: 120190100	5-1-2019

**Activity 2: Design of 160-acre Wetland and Native Prairie Habitat** **Budget: \$140,000**

This phase includes the creation and completion of the technical materials and plans necessary to ensure the long-term success of the project.

<b>Outcome</b>	<b>Completion Date</b>
1. Complete survey of project area	11-30-2018
2. Finalize design and engineering report, prepare construction plan and specifications, and hold a public hearing to approve wetland construction and habitat improvements	1-31-2019
3. Publicly bid construction of the project	3-31-2019

**Activity 3: Completion of Wetland and Native Prairie Restoration** **Budget: \$422,000**

Currently, the proposed project area is used for planting row crops and water is pumped from the site to an open ditch. However, this area has repeatedly flooded, most recently in 2016. MCDA is seeking funding to help landowners address this challenge in a way that achieves multiple benefits that are not currently supported through traditional agriculture funding programs’ cost/benefit analysis. To accomplish the goal of enhanced habitat, improved water quality, and flood storage, we will level the bank along the current ditch so that water will flow into the newly restored wetland, remove existing water pumps that will no longer be needed, adjust



**Environment and Natural Resources Trust Fund (ENRTF)**

**2018 Main Proposal**

**Project Title:** East Fork Des Moines River Wetland Restoration

the township road to allow for the installation of a flood culvert and outlet structure that will direct water to the wetland, and replant the project area with native grasses and forbs. In total, this effort will restore 160 acres of wetland prairie and pollinator habitat, totaling approximately 480 acre-feet of water storage, a 339 tons/year reduction in sediment, and a 709 pounds/year reduction in phosphorous, according to the Water Pollution Reduction Estimator by BWSR and Revised Universal Soil Loss Equation (RUSLE2) developed by NRCS.

Outcome	Completion Date
1. Remove 3 pumps and stabilize/level ditch banks	8-31-2019
2. Raise roadway approximately 3 feet, install floodplain culvert and outlet structure	11-30-2019
3. Planting of native grasses and forbs and final stabilization- a seed mix developed by Martin County SWCD through past ENTRF funds will be used and includes Small White Lady's Slipper, Tuberosus Indian Plantain, Sullivant's Milkweed, Eared False Foxglove and several other at-risk and underutilized native plant species.	6-30-2020

**Activity 4:** Community Education, Water Quality Monitoring, and Maintenance

**Budget: \$ 110,000**

In order to establish a constituency of support for these practices and build support for future efforts, we will provide educational outreach opportunities such as site visits, informational handouts, and signage as well as monitoring for water quality improvements upstream and downstream of the wetland and within the restoration site following completion of the project. A report quantifying those results will be completed and distributed to state agencies, landowners, and regional drainage authorities.

Outcome	Completion Date
1. Create outreach materials	3-31-2019
2. Present findings and hold a field day event at the site with a tour of the project	7-31-2023
3. Sample inlet and outlet flows once monthly for two years (May-October 2021 & 2022)	10-31-2022
4. Report developed	7-31-2023
5. MCDA will monitor the easement annually to ensure compliance and functionality of the improvements	ongoing

**III. PROJECT STRATEGY**

**A. Project Team/Partners**

Project Partners Receiving Funds:

- Project Sponsor: MCDA, Mike Forstner, Drainage Administrator and Shane Fett, Ditch Inspector (\$522,000)-serve as project manager, hold and monitor easement, act as fiduciary agent
- Landowners providing parcels for easement (\$1,044,192)-Sylvan Krumwiede Irrevocable Trust; Clarine Weiss; Wayne Christian; Patrick & Anne Bedford; Gary and Mary Jo Manzey
- Engineering Services, TBD (\$150,000)-Design, coordination of construction activities, and outreach

Project Partners Not Receiving Funds:

- Minnesota Department of Natural Resources, Bryan Nyborg-provide technical review of project

**B. Project Impact and Long-Term Strategy**

The project will have a measurable impact on water quality and quantity leaving the project site, specifically a decrease in total suspended solids, which will increase DO and improve clarity. This project is part of larger restoration goals detailed in the MCWP, with additional restoration currently being considered through the USDA's CREP program, which would bring the total to 285-320 acres of contiguous lands protected.

**C. Timeline Requirements**

All phases of the project will be completed within the timeframe outlined in the above scope of work. The only activity continuing outside of that timeline is the long-term monitoring of the conservation easement by MCDA.

## 2018 Detailed Project Budget

**Project Title: East Fork Des Moines River Wetland Restoration**

### IV. TOTAL ENRTF REQUEST BUDGET: 5 years

<b>BUDGET ITEM</b>	<b>AMOUNT</b>
<b>Personnel:</b>	
All Martin County personnel time and travel is in-kind (see below)	N/A
<b>Professional/Technical/Service Contracts:</b>	
Contract with Engineering Firm, TBD: Design and Survey (\$106,000), Construction Staking/Administration (34,000), Outreach (\$10,000)	\$ 150,000
Construction company, TBD: Cutting down built up channel banks, floodplain culvert, gravel road rehabilitation, outlet structure, and seeding	\$ 422,000
Monitoring company, TBD: Take 24 samples - once/month May-October in 2021 and 2022	\$ 100,000
<b>Acquisition (Fee Title or Permanent Easements):</b>	
7 parcels in conservation easement totaling ~160 acres to be held by Martin County JD 50	\$ 1,044,192
<b>Travel:</b>	
Martin County travel all in-kind (see below)	N/A
<b>TOTAL ENVIRONMENT AND NATURAL RESOURCES TRUST FUND \$ REQUEST =</b>	<b>\$ 1,716,192</b>

### V. OTHER FUNDS

<b>SOURCE OF FUNDS</b>	<b>AMOUNT</b>	<b>Status</b>
<b>Other Non-State \$ To Be Applied To Project During Project Period:</b>	N/A	
<b>Other State \$ To Be Applied To Project During Project Period:</b>	N/A	
<b>In-kind Services To Be Applied To Project During Project Period:</b>	N/A	
Martin County Personnel	\$ 28,230	secured
Martin County Travel	\$ 5,000	secured
<b>Past and Current ENRTF Appropriation:</b>	N/A	
<b>Other Funding History:</b>	N/A	

**Environment and Natural Resources Trust Fund  
2018 Proposed Acquisition/Restoration List**

**Project Title:** East Fork Des Moines River Wetland Restoration

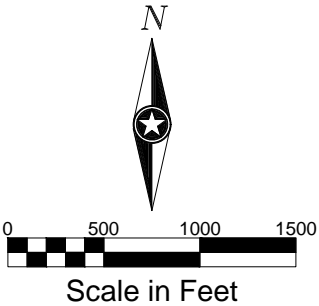
**Project Manager Name:** Michael Forstner

**Organization:** Martin County Drainage Authority (MCDA)

**ENRTF \$ Request:** \$1,044,192

#	Acquisition or Restoration Parcel Name	Geographic Coordinates Format: [Deg.]° [Min.]' [Sec.]" [Hemis.]		Estimated Cost	County	Ecological Significance	Activity Description	# of Acres	# of Shoreline Miles	Type of Landowner	Proposed Fee Title or Easement Holder (if applicable)
		Latitude	Longitude								
1	KRUMWIEDE, SYLVAN K IRREV TST - 120190200	43° 37' 29.89" N	94° 43' 28.19" W	\$ 9,261.14	Martin	Farmed, lowland, drained basin	Purchase conservation easement	1.4182454	N/A	Private Individual/Trust	MCDA
2	WEISS, CLARINE S - 120190400	43° 37' 28.48" N	94° 43' 13.80" W	\$ 347,098.88	Martin	Farmed, lowland, drained basin	Purchase conservation easement	53.1545	N/A	Private Individual	MCDA
3	CHRISTIAN, WAYNE - 120190700	43° 37' 28.85" N	94° 42' 59.98" W	\$ 47,015.80	Martin	Farmed, lowland, drained basin	Purchase conservation easement	7.1999695	N/A	Private Individual	MCDA
4	BEDFORD, PATRICK & ANNE L - 120200500	43° 37' 36.64" N	94° 42' 48.32" W	\$ 91,149.27	Martin	Farmed, lowland, drained basin	Purchase conservation easement	13.95854	N/A	Private Individual	MCDA
5	BEDFORD, PATRICK & ANNE L - 120200300	43° 37' 44.09" N	94° 42' 48.24" W	\$ 93,443.61	Martin	Farmed, lowland, drained basin	Purchase conservation easement	14.309894	N/A	Private Individual	MCDA
6	CHRISTIAN, WAYNE - 120170500	43° 37' 38.11" N	94° 42' 59.38" W	\$ 317,774.15	Martin	Farmed, lowland, drained basin	Purchase conservation easement	48.663728	N/A	Private Individual	MCDA
7	MANZEY, GARY & MARY JO P - 120190100	43° 37' 38.11" N	94° 43' 14.70" W	\$ 138,448.67	Martin	Farmed, lowland, drained basin	Purchase conservation easement	21.20194	N/A	Private Individual	MCDA

**NOTES:**



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### MARTIN COUNTY EAST FORK DES MOINES RIVER WETLAND RESTORATION

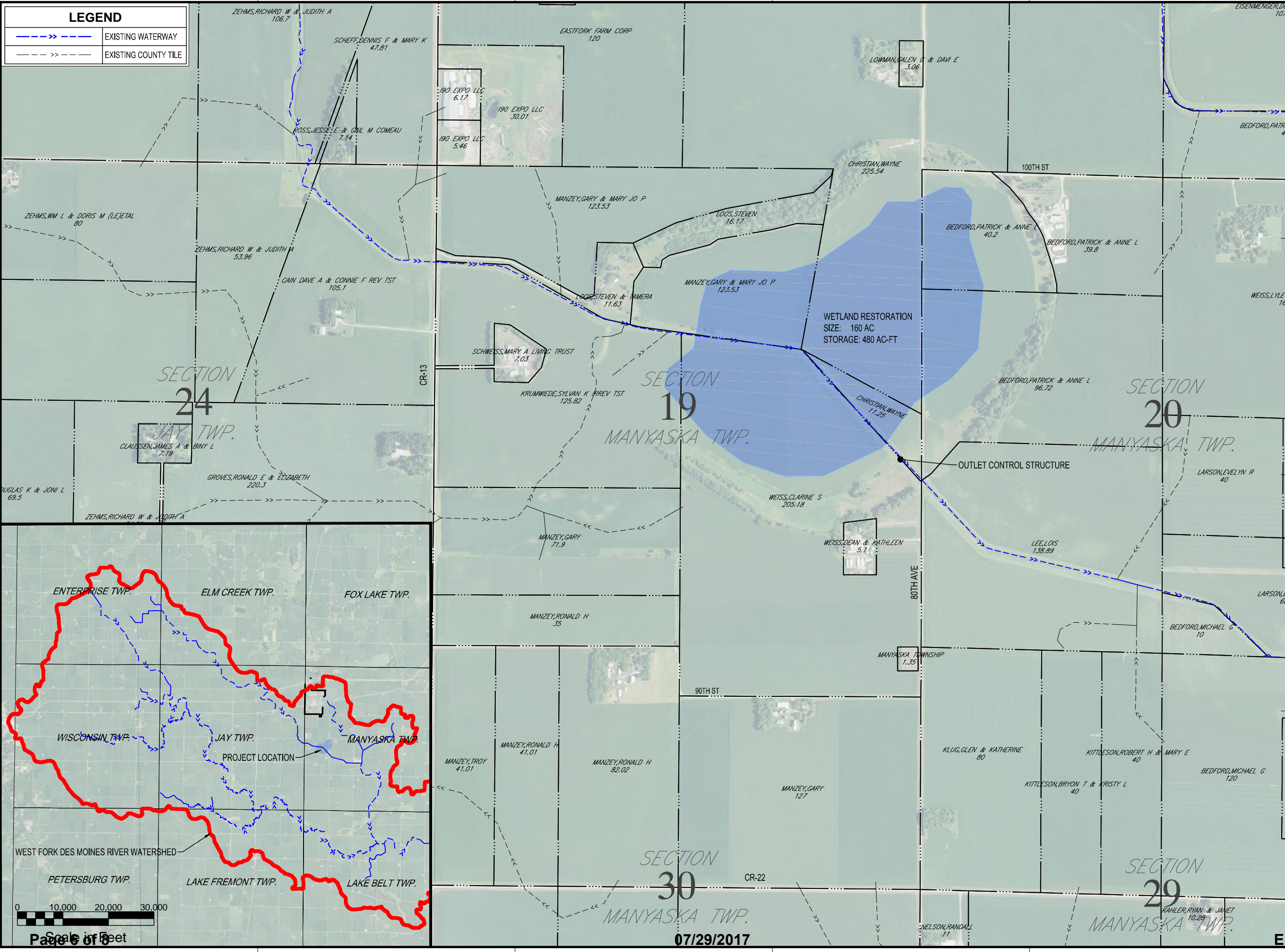
MARTIN COUNTY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

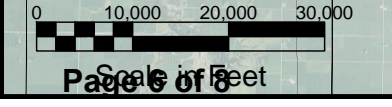
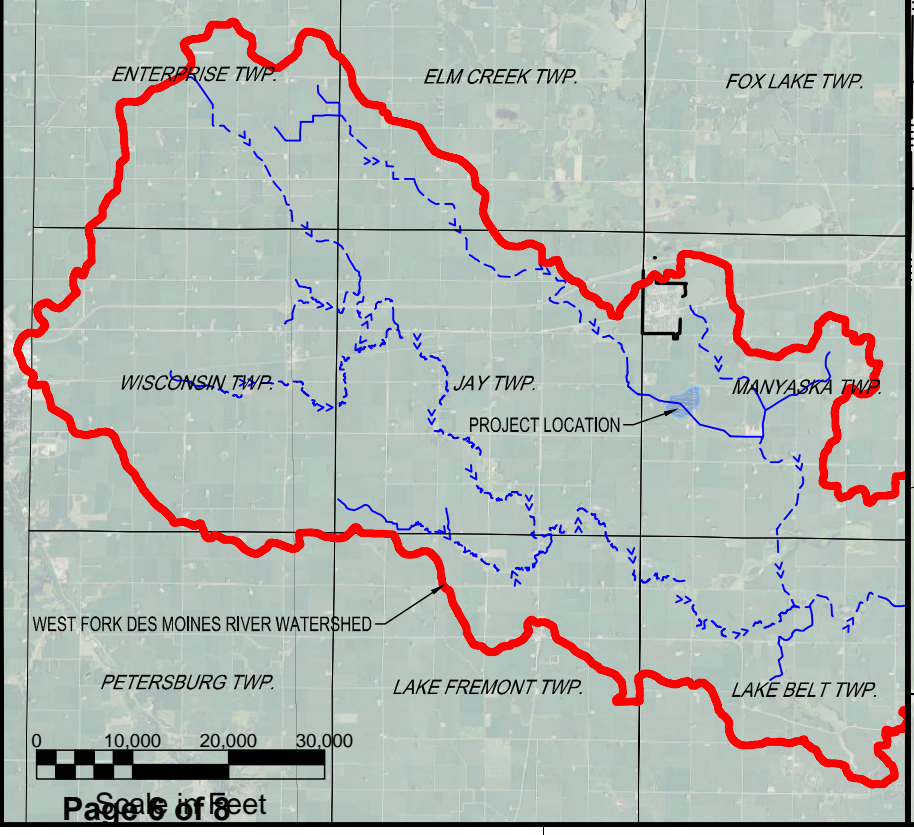
PROJECT NO.	16-19580
CAD FILE NAME	19580-LCCMR
DRAWN BY	RAG
DESIGNED BY	RAG
REVIEWED BY	CJB
ORIGINAL ISSUE DATE	-/-/-
CLIENT PROJECT NO.	-

### WETLAND RESTORATION LOCATION

SHEET



LEGEND	
	EXISTING WATERWAY
	EXISTING COUNTY TILE



# Martin County Drainage Administration Staff

Michael Forstner - Drainage Systems Manager

Coordinates all operations relating to public drainage systems within the county. Serves as the principal spokesperson for drainage matters, as well as makes drainage related recommendations to the County Commissioners. Performs various GIS activities that relate to the public drainage systems. Handles all billing and special assessment matters that pertain to the various drainage projects that occur throughout the year.

Shane Fett - Drainage Inspector

Conducts yearly ditch inspections and enforces buffer compliance per drainage statute. Serves as the contact person for landowners/taxpayers for ditch related repairs. Supervises the work performed on drainage systems by various contractors and provides assistance to drainage systems manager.

