



Wetland Restoration Construction



Presentation Topics

- **Workload and Technical Assistance**
- **Pre-Design Considerations**
- **Design/Construction Plans**
- **Hiring Contractors and Getting the Work Done**



Workload and Technical Assistance



CREP CP23/23A Workload

Practice	Current Status		Projected Totals*	
	Apps Funded	Acres Enrolled	Apps Funded	Acres Enrolled
CP23	54	1,989	175	7,000
CP23A	133	9,083	350	24,500

***Low Range – Could be Higher**



CREP CP23/23A Enrollment/Project Status

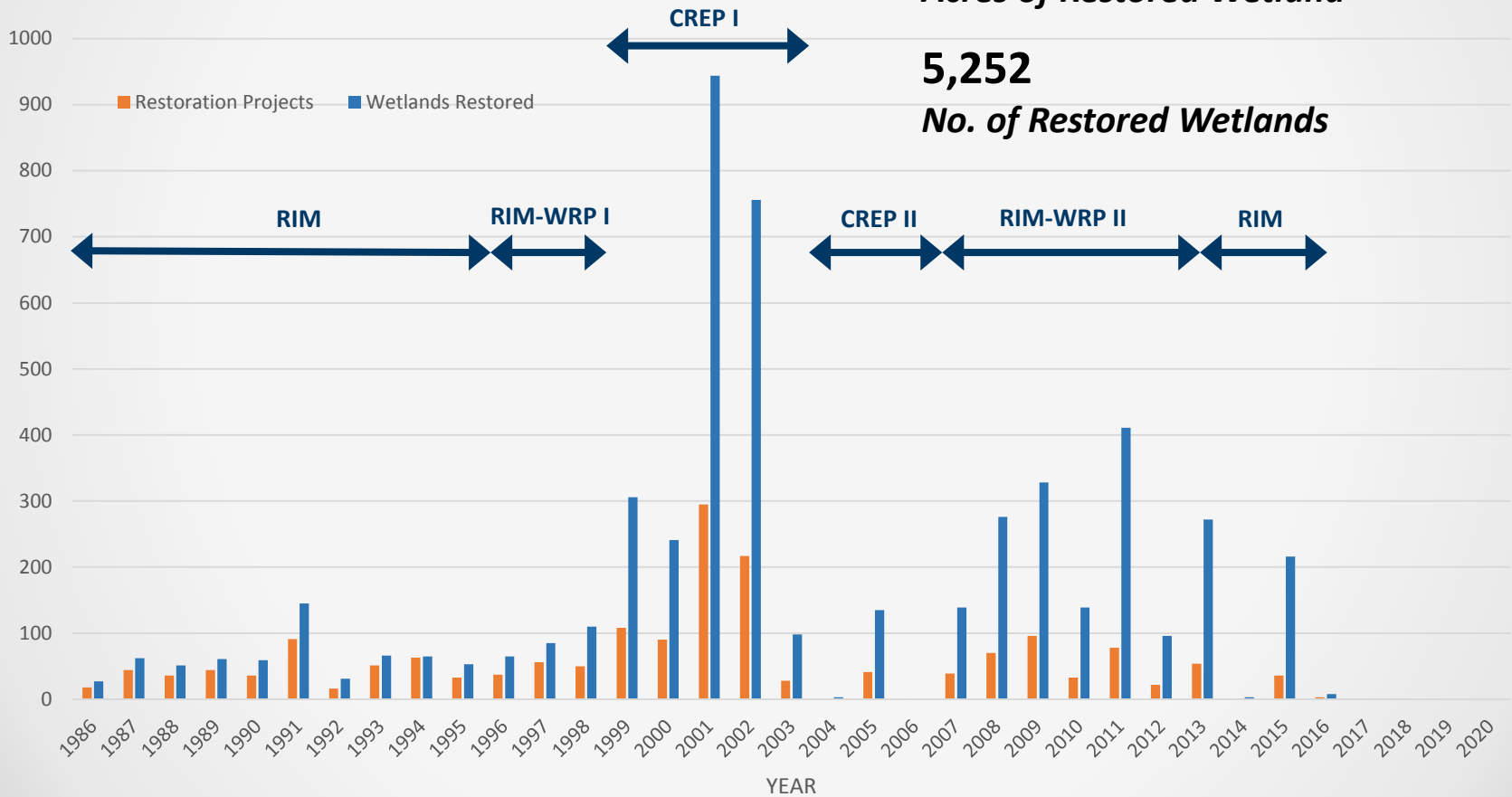
RIM Reserve Wetland Restoration History

57,000

Acres of Restored Wetland

5,252

No. of Restored Wetlands



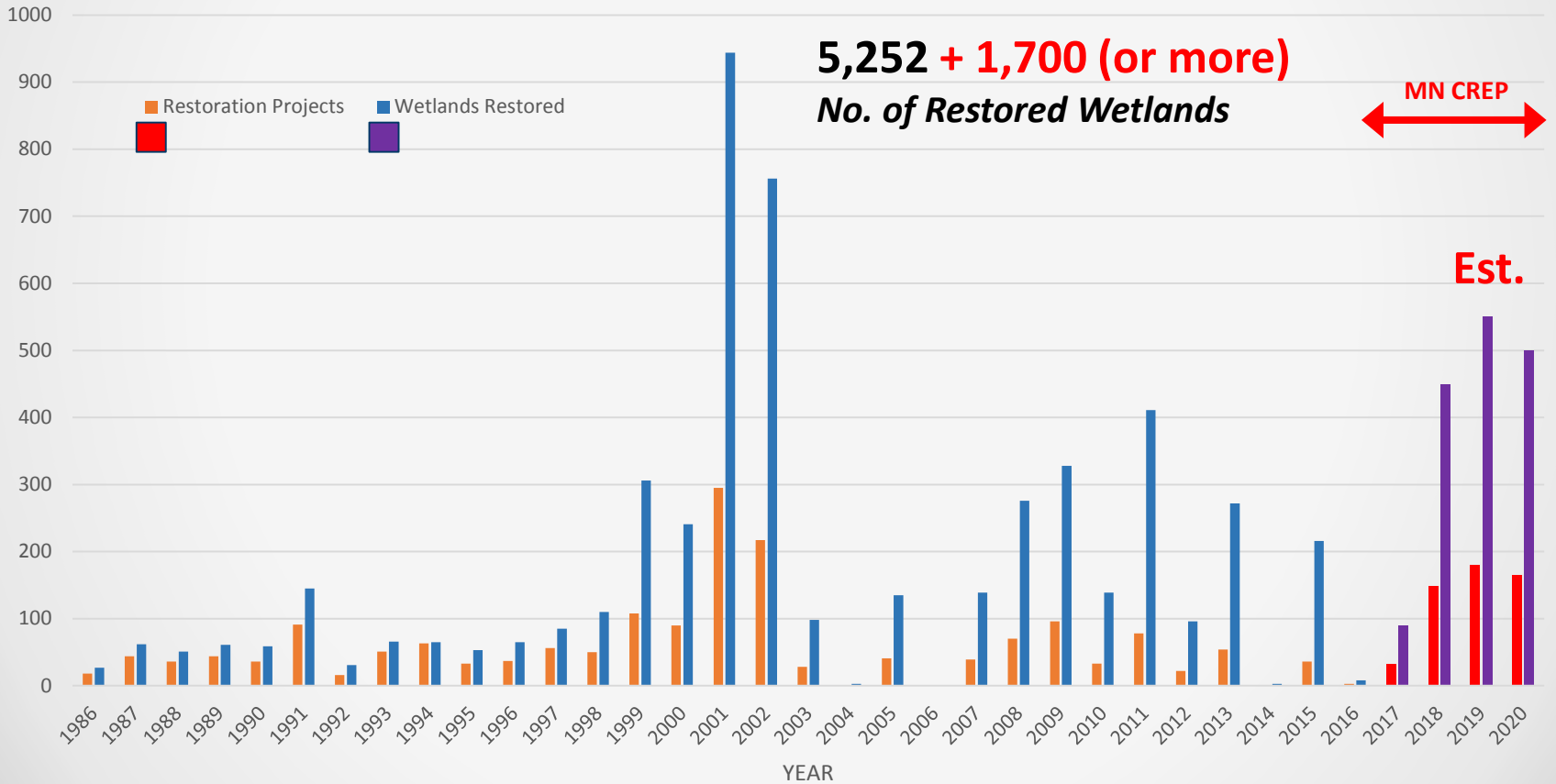
CREP CP23/23A Enrollment/Project Status

RIM Reserve Wetland Restoration History

57,000 + 16,000 (or more)
Acres of Restored Wetland

5,252 + 1,700 (or more)
No. of Restored Wetlands

MN CREP ↔

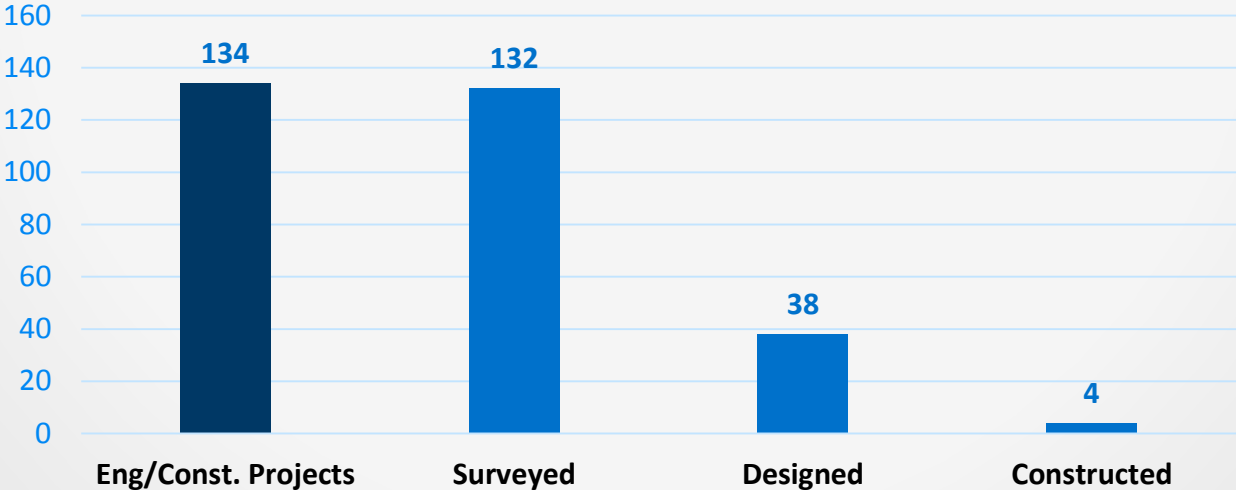




CREP CP23/23A Enrollment/Project Status

Sign-Up Year	Engineering/Construction*	Crop Cessation
2017	26	6
2018	108	37
TOTALS	134	43

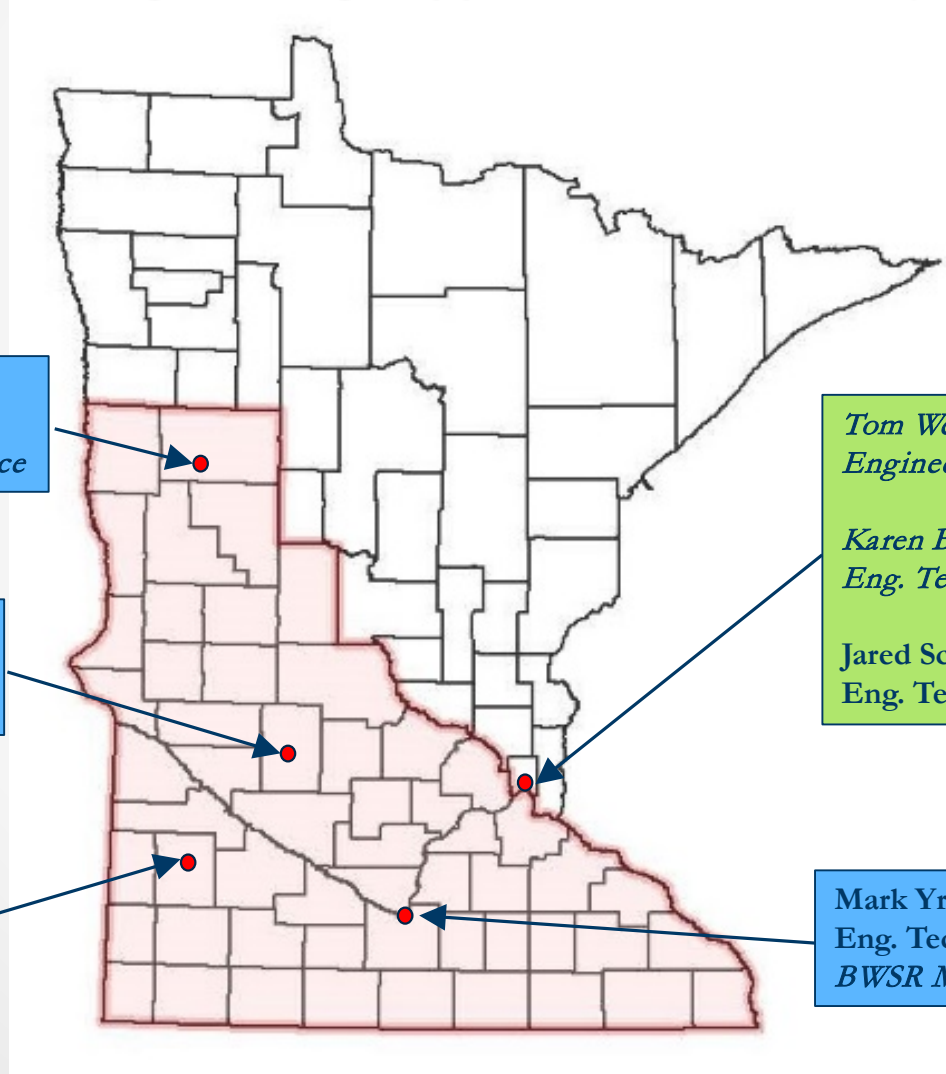
***Single or Multiple Easement Construction Projects**





Workload and Technical Assistance

BWSR Engineering Support Staff for CREP (1/1/2019)



Bruce Wilken
Eng. Tech.
BWSR Detroit Lakes Office

Mike Anderson
Eng. Tech.
Kandiyohi SWCD Office

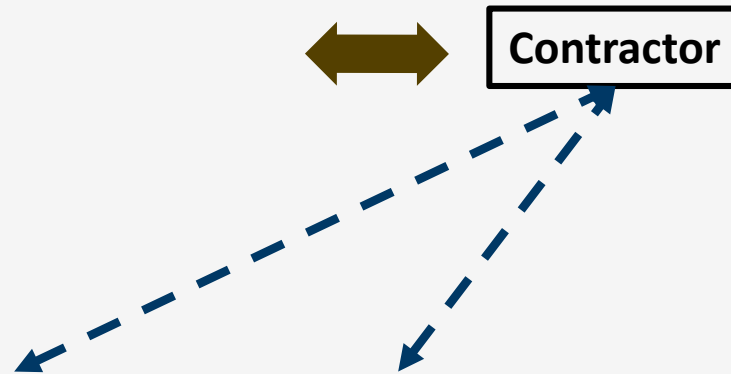
Scott Santjer
Eng. Tech.
BWSR Marshall Office

<i>Tom Wenzel</i> Engineer	Terry Ragan Engineer
<i>Karen Bonde</i> Eng. Tech.	Mitch Cabak Eng. Tech.
Jared Schmitz Eng. Tech.	Jim Luniewski Eng. Tech.

Mark Yrjo
Eng. Tech.
BWSR Mankato Office



Technical Assistance Relationships





Pre-Design Considerations



Pre-Design Considerations

- ✓ **Review Concept Plan with all Partners**
- ✓ **Resolve Cultural Resource Concerns**
- ✓ **Check Acres/Funding**
- ✓ **Consider Requirements for Necessary Permits, Approvals, Permissions, etc.**
- ✓ **Determine JAA Requirements**



Design/Construction Plans



Design/Construction Plans

- ❑ Construction Drawings
- ❑ Construction Specifications
- ❑ Inspection Plan
- ❑ Cost Estimate





- ❑ **Appropriate Job Approval Authority (JAA)**
- ❑ **657 and Other NRCS Practice Standards**

***NRCS DESIGN CERTIFICATION
STATEMENT***

BY SIGNING THIS PLAN, I HEREBY CERTIFY THAT THIS DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH ALL APPLICABLE NRCS STANDARDS AND SPECIFICATIONS AND IS IN COMPLIANCE WITH PERMITS (NEM PART 505, SUBPART A).



Construction Cost Estimate

COST ESTIMATE FORM

Project Name: <i>Project Construction Cost</i>	Project No:
	<i>29-Oct-2013</i>

Item / Spec. No.	Description of Bid Item	Pay Unit	Estimated Quantity	Unit Price	Sub Total Cost
1	Mobilization (not to exceed 5% of total bid price)	L.S.	1.0	\$500.00	\$500.00
2.210	2 Salvage and Spread Topsoil (P) Stripping Existing Minimum Maintenance Road	C.Y.	293.0	\$6.00	\$1,758.00
2.120	3 Removal and Disposal of Existing 12" CMP Under Minimum Maintenance Road	L.S.	1.0	\$300.00	\$300.00
2.391	4 Tile Block/Removal Type "A", See Details Sheet #2	L.F.	100.0	\$4.00	\$400.00
2.230	5 Earthfill - Minimum Maintenance Road (P) (CV) <i>(Includes volumes for subcut area and settlement allowance)</i>	C.Y.	1041.0	\$4.00	\$4,164.00
2.340	6 F&I 18" Class V RCP Pipe Under Minimum Maintenance Road <i>(All Pipe Joints Shall be Wrapped & Tied, See Details Sheet #2)</i>	L.F.	32.0	\$30.00	\$960.00
2.420	7 F&I Class V Gravel for Top Dressing on Minimum Maintenance Road, See Details Sheet #2	C.Y.	112.0	\$20.00	\$2,240.00
2.340	8 F&I 8" Trickle Drain, See Bill of Materials & Details Sheet #2	L.S.	1.0	\$3,500.00	\$3,500.00
2.250	9 Seeding - Native Construction Mix 32-241 <i>(Embankment tops and other disturbed upland areas)</i>	Acre	0.1	\$525.00	\$52.50
2.250	10 Seeding - Dry Swale / Pond Mix 33-262 <i>(Road side slopes, borrow areas, other disturbed wet areas)</i>	Acre	0.6	\$600.00	\$360.00
2.250	11 Mulching (P) <i>(Road side slopes)</i>	Acre	0.3	\$600.00	\$180.00

Subtotal \$14,414.50
15% Contingency \$2,162.18

TOTAL

\$ \$16,576.68



Hiring Contractors and Getting the Work Done

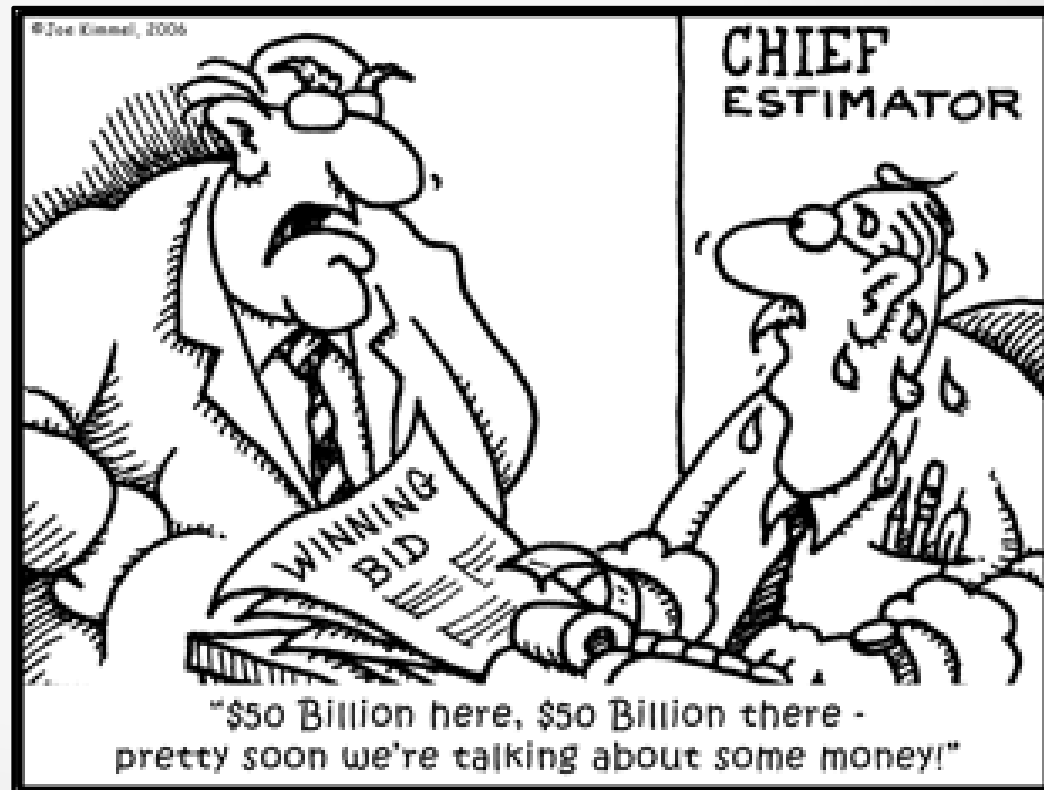


Hiring Contractors and Getting the Work Done

- Bid Documents**
- Soliciting Bids**
- Reviewing and Accepting Bids**
- Pre-Construction Meeting**
- Construction Observations**

Bid Documents

- ❑ Construction Drawings
- ❑ Construction Specifications
- ❑ Bid Form





Hiring Contractors and Getting the Work Done

Bid Form

BID FORM

Project Name: **We Are Wetland Restoration Inc. MNCREP** Project No: **2017-000**
 March 5, 2019

CONTRACTOR INFORMATION

Contractor/Company Name: _____ Business Phone No.: _____ Cell Phone No.: _____

Address: _____ City/State/Zip Code: _____ Contractor Signature: _____

Item No.	Description of Bid Item	Pay Unit	Estimated Quantity	Unit Price	Sub Total Cost
1	Remove & Dispose of Existing Pump Station	L.S.	1.0		
2	Remove & Dispose of 12" CMP Pipe Through County Road #138	L.S.	1.0		
3	Salvage & Spread Topsoil for Road Slope Fill (P)	C.Y.	275.0		
4	Excavation - Spillway	Hour	0.5		
5	Grading & Compacting - Road Slope & Road Fill (P) (CV) <i>(Fill Provided by County Highway Department)</i>	C.Y.	1200.0		
6	Grading & Compacting-Salvaged Gravel & New Class 5 Gravel(P)(CV) <i>(Gravel Provided by County Highway Department)</i>	C.Y.	200.0		
7	Tile Block / Removal	L.F.	200.0		
8	Install 60 L.F. of 24" CMP Pipe <i>(Pipe Provided by County Highway Department)</i>	L.S.	1.0		
9	F&I 6" Non- Perforated Pipe Outlets #1 & 2 <i>(Includes Junctions)</i>	L.F.	115.0		
10	F&I 8" CMP For Pipe Outlet #1 <i>(Includes CMP Pipe, Junction, Rodent Guard, & Outlet Channel)</i>	L.S.	1.0		
11	F&I 8" CMP For Pipe Outlet #2 <i>(Includes CMP Pipe, Junction, Rodent Guard, & Outlet Channel)</i>	L.S.	1.0		
12	F&I 12" HDPE Dual Walled Pipe, 10.8 psi Bell & Spigot <i>(See Bill of Materials Sheet #5)</i>	L.S.	1.0		
13	F&I Wetland #1 Rock Outlet <i>(See Bill of Materials Sheet #4)</i>	L.S.	1.0		
14	Seeding - Wetland Construction Mix <i>(Spillways, Road Slope Fill, Borrow Areas & All Other Disturbed Areas)</i>	Acre	2.5		
15	Mulching <i>(Spillways & Road Slope Fill)</i>	Acre	0.75		

TOTAL \$

BID FORM

Project Name: **WE Are Wetland Restoration Inc. MNCREP** Project No: **2017-000**
 5-Mar-2019

CONTRACTOR INFORMATION

Contractor/Company Name: _____ Business Phone No.: _____ Cell Phone No.: _____

Address: _____ City/State/Zip Code: _____ Contractor Signature: _____

Spec. No.	Description of Bid Item	Pay Unit	Estimated Quantity	Unit Price	Sub Total Cost
1	Salvage and Spread Topsoil (P)	C.Y.	75.0		
2.210	Miscellaneous Earthwork - Grading, Excavation, Earthfill <i>Provide a description (type, size, etc.) of the construction equipment that will be used for this general bid item. Also, based on the total hours estimated for this bid item, provide an estimated subtotal of hours and unit price (hourly rate) that will be used for each piece of equipment. These are just estimates and the actual hours of each piece of equipment will be used for payment. Note however that the total hours of all equipment used under this bid item shall not exceed the total estimated quantity listed without prior approval of the Engineer.</i>	Hour	40.0		
2.210		Equipment #1:	Hour		
2.220		Equipment #2:	Hour		
2.230		Equipment #3:	Hour		
		Equipment #4:	Hour		
	Equipment #5:	Hour			
3	Tile Investigation	L.F.	100.0		
2.260	Tile Block/Removal	L.F.	100.0		
2.260	Seeding - Wetland Construction Mix <i>(Embankment, spillways, scrapes, other disturbed areas)</i>	Acre	1.0		
2.250	Mulching (P) <i>(Embankments and spillways)</i>	Acre	1.0		

TOTAL \$



Hiring Contractors and Getting the Work Done

Soliciting Bids

- ❑ Why do this?
- ❑ Who Should do This?
- ❑ When Should This be Done?
- ❑ How Many Bids should be Obtained?



Instructions for Soliciting Bids for BWSR Designed/Coordinated Wetland Restorations on BWSR Conservation Easements

1. Field office (SWCD, NRCS, or other program partner) should provide cooperators (landowner) with copies of all construction documents. All of the documents together make up the construction plan. Review these documents and the bidding process outlined herein with the cooperator. When multiple landowners are involved (group projects) a primary cooperator should be identified as a main contact for bidders.
2. For bidding purposes, PDF copies of the plans can be made available to the contractor upon contractor's e-mail request to the engineer or engineer's representative.
3. Cooperator signature should be obtained on construction plans when required. Cooperator signed plans should be kept on file in field office.
4. Prior to bidding, the field office should ensure that all funding has been secured or obligated for the project. Unless other circumstances warrant it, the engineer's cost estimate should be used as the amount to be secured or obligated.
5. Cooperator is responsible for hiring a contractor. Field office should provide cooperator with a list of suggested contractors for bid consideration.
6. In an attempt to receive at least 3 bids on the project, the cooperator should be instructed to solicit bids from at least 5 contractors. Cooperator can either send out solicitations for bids themselves or have the field office coordinate the process.
7. The engineer's cost estimate that is provided is for field office use only. It should not be made available to prospective bidders and only provided to cooperators under special circumstances.
8. For large and/or complex projects, a pre-bid meeting may be desired or deemed necessary. The field office should assist the cooperator in scheduling a meeting with the selected contractors and the engineer or engineer's representative.
9. Bid due dates should be established and made known to all prospective bidders. 15 to 30 days is an appropriate timeframe. When appropriate, construction completion dates should also be identified and made known to prospective contractors who will be bidding on the project.
10. Field office should provide oversight to the bidding process, review bids for accuracy (**calculation errors**), and confirm the cooperator's selection of a contractor. Although not required, a minimum of 3 bids should be received by the cooperator and submitted to the field office for review.
11. It is preferred to have the cooperator consider hiring the contractor with the lowest bid.
12. Bids that exceed the engineer's estimate shall not be accepted without the engineer's approval.
13. The cooperator shall be responsible to notify the bidding contractors of their hiring decision. The contractor should be reminded of the construction due date, if established.
14. The cooperator shall also have the decision of whether or not to share the awarded bid information with unsuccessful bidders.

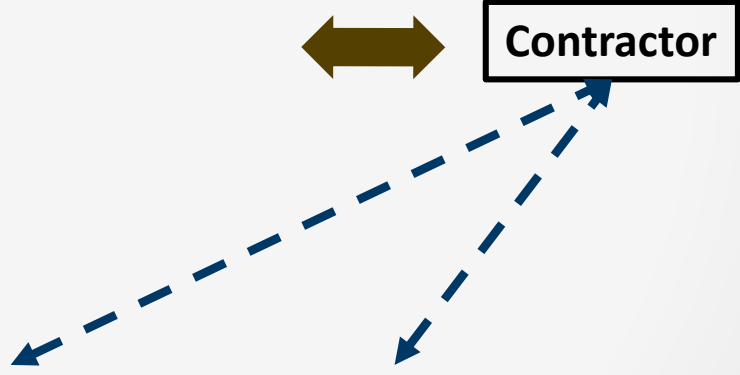
* If the returned bids exceed the engineer's estimate, the field office should contact the engineer or engineer's representative. To remain eligible for maximum practice reimbursement benefits, the cooperator will be instructed to either solicit additional bids or negotiate with current bidders in an attempt to correct unbalanced or unreasonable bid items. In some situations, it may not be feasible to negotiate or consider a new bid solicitation and exceptions to exceeding the engineer's estimate may be allowed. In other cases, the cooperator may be asked to cover any unfunded balance should they desire to proceed with hiring a contractor whose bid exceeds the engineer's estimate.



Soliciting Bids

Who Accepts a Bid and Hires the Contractor?

Roles and
Responsibilities





Hiring Contractors and Getting the Work Done

Soliciting Bids

All bids should be carefully reviewed for accuracy and completeness.

BID FORM					
Project Name: <i>We Are Wetland Restoration Inc. CREP</i>			Project No: <i>2017-000</i> <i>May 5, 2019</i>		
Item No.	Description of Bid Item	Pay Unit	Estimated Quantity	Unit Price	Sub Total Cost
1	Remove & Dispose of Existing Pump Station	L.S.	1.0	\$1,250.00	\$1,250.00
2	Remove & Dispose of 12" CMP Pipe Through County Road #138	L.S.	1.0	\$495.00	\$495.00
3	Salvage & Spread Topsoil for Road Slope Fill (P)	C.Y.	275.0	\$6.10	\$1,677.50
4	Excavation - Spillway	Hour	0.5	\$175.00	\$87.50
5	Grading & Compacting - Road Slope & Road Fill (P) (CV) <i>(Fill Provided by County Highway Department)</i>	C.Y.	1200.0	\$3.65	\$4,380.00
6	Grading & Compacting-Salvaged Gravel & New Class 5 Gravel(P)(CV) <i>(Gravel Provided by County Highway Department)</i>	C.Y.	200.0	\$4.95	\$990.00
7	Tile Block / Removal	L.F.	200.0	\$4.25	\$850.00
8	Install 60 L.F. of 24" CMP Pipe <i>(Pipe Provided by County Highway Department)</i>	L.S.	1.0	\$1,875.00	\$1,875.00
9	F&I 6" Non- Perforated Pipe Outlets #1 & 2 <i>(Includes Junctions)</i>	L.F.	115.0	\$6.75	\$776.25
10	F&I 8" CMP For Pipe Outlet #1 <i>(Includes CMP Pipe, Junction, Rodent Guard, & Outlet Channel)</i>	L.S.	1.0	\$415.00	\$415.00
11	F&I 8" CMP For Pipe Outlet #2 <i>(Includes CMP Pipe, Junction, Rodent Guard, & Outlet Channel)</i>	L.S.	1.0	\$415.00	\$415.00
12	F&I 12" HDPE Dual Walled Pipe, 10.8 psi Bell & Spigot <i>(See Bill of Materials Sheet #5)</i>	L.S.	1.0	\$0.48	\$0.48
13	F&I Wetland #1 Rock Outlet <i>(See Bill of Materials Sheet #4)</i>	L.S.	1.0	\$2,000.00	\$2,000.00
14	Seeding - Wetland Construction Mix <i>(Spillways, Road Slope Fill, Borrow Areas & All Other Disturbed Areas)</i>	Acre	2.5	\$900.00	\$2,250.00
15	Mulching <i>(Spillways & Road Slope Fill)</i>	Acre	0.75	\$850.00	\$637.50
Subtotal					\$18,099.23
TOTAL					\$ 18,099.23



Soliciting Bids

Hiring Contractors and Getting the Work Done

- ❑ Does cooperator have to hire contractor with lowest bid?

- ❑ What if desired contractor's bid and/or lowest bid exceeds cost estimate amount?



Instructions for Soliciting Bids for BWSR Designed/Coordinated Wetland Restorations on BWSR Conservation Easements

1. Field office (SWCD, NRCS, or other program partner) should provide cooperator (landowner) with copies of all construction documents. All of the documents together make up the construction plan. Review these documents and the bidding process outlined herein with the cooperator. When multiple landowners are involved (group projects) a primary cooperator should be identified as a main contact for bidders.
2. For bidding purposes, PDF copies of the plans can be made available to the contractor upon contractor's e-mail request to the engineer or engineer's representative.
3. Cooperator signature should be obtained on construction plans when required. Cooperator signed plans should be kept on file in field office.
4. Prior to bidding, the field office should ensure that all funding has been secured or obligated for the project. Unless other circumstances warrant it, the engineer's cost estimate should be used as the amount to be secured or obligated.
5. Cooperator is responsible for hiring a contractor. Field office should provide cooperator with a list of suggested contractors for bid consideration.
6. In an attempt to receive at least 3 bids on the project, the cooperator should be instructed to solicit bids from at least 5 contractors. Cooperator can either send out solicitations for bids themselves or have the field office coordinate the process.
7. The engineer's cost estimate that is provided is for field office use only. It should not be made available to prospective bidders and only provided to cooperators under special circumstances.
8. For large and/or complex projects, a pre-bid meeting may be desired or deemed necessary. The field office should assist the cooperator in scheduling a meeting with the selected contractors and the engineer or engineer's representative.
9. Bid due dates should be established and made known to all prospective bidders. **15 to 30 days** is an appropriate timeframe. When appropriate, construction completion dates should also be identified and made known to prospective contractors who will be bidding on the project.
10. Field office should provide oversight to the bidding process, review bids for accuracy (**calculation errors**), and confirm the cooperator's selection of a contractor. Although not required, a minimum of 3 bids should be received by the cooperator and submitted to the field office for review.
11. It is preferred to have the cooperator consider hiring the contractor with the lowest bid.
12. Bids that exceed the engineer's estimate shall not be accepted without the engineer's approval.
13. The cooperator shall be responsible to notify the bidding contractors of their hiring decision. The contractor should be reminded of the construction due date, if established.
14. The cooperator shall also have the decision of whether or not to share the awarded bid information with unsuccessful bidders.

* If the returned bids exceed the engineer's estimate, the field office should contact the engineer or engineer's representative. To remain eligible for maximum practice reimbursement benefits, the cooperator will be instructed to either solicit additional bids or negotiate with current bidders in an attempt to correct unbalanced or unreasonable bid items. In some situations, it may not be feasible to negotiate or consider a new bid solicitation and exceptions to exceeding the engineer's estimate may be allowed. In other cases, the cooperator may be asked to cover any unfunded balance should they desire to proceed with hiring a contractor whose bid exceeds the engineer's estimate.



Construction

Hiring Contractors and Getting the Work Done

Pre-Construction Meeting

- Purpose
- When to Have

6. **Required Documents/Submittals**
 - a. Shop Drawings – Submitted by Contractor to Engineer for Approval
 - b. Other
7. **Permits**
8. **Stage/Storage Areas**
9. **Temporary Facilities**
 - a. Pollution Control
10. **Site Access/Issues**
 - a. Ingress/Egress Locations
 - b. Working/Construction Limits
 - c. Archeological Remains
 - d. Disposal of Materials
11. **Plan Review/Construction Sequence –**
 - a. Construction Inspection Plan
 - b. Borrow Material/Embankment/Road Slope Improvements
 - c. Compaction Requirements
 - d. Settlement
 - e. Outlet Structures
 - f. Manufactured Products/Materials
 - g. Permanent Site Stabilization
 - i. Seeding
 - ii. Mulching
 - h. Temporary Erosion Control/Site Stabilization
 - i. Review Specification 2.130, Sub-Section 5, Temporary Erosion & Sediment Control
12. **Project Coordination/Work by Others**

It shall be the Contractor's responsibility to coordinate work efforts with public and private utility companies and other contractors working adjacent to the site if necessary.
13. **Traffic Control**
14. **Safety Requirements** – The Contractor is responsible for the safety and actions of their employees, including compliance with all applicable OSHA regulations.
15. **Construction Observations/Inspections**
16. **Inspections and Testing**
 - a. Inspections by Engineer or authorized representative Prior to any concealment
 - b. During construction (*See Inspection Plan*)
 - c. Inspections by others
 - d. Changes/Revisions (Approved by BWSR prior to installation)
17. **Site Cleanup/Closeout**
18. **Payment Process**
 - a. As-built survey:
 - b. Measurement of Constructed Quantities:
 - c. Change Order(s):
 - d. Preparing and submitting invoice:
 - e. Construction Certification:
 - f. Payment process:
 - g. Partial vs Final Payment:



Construction

Hiring Contractors and Getting the Work Done

Layout and Staking





Construction

Hiring Contractors and Getting the Work Done

Oversight/Observations





Construction

Hiring Contractors and Getting the Work Done

Post-Construction Items

- ❑ **As-Built Survey/Measurement of Final Quantities**
- ❑ **Final Quantities/Contractor Invoice**
- ❑ **Construction Certification**
- ❑ **Process Payments**





Construction

Hiring Contractors and Getting the Work Done

As-Builts

- ❑ Purpose
- ❑ Always needed?
- ❑ How to complete

LOCATION MAP
SCALE: 1" = 1320'

GEIS

CREP WETLAND RESTORATION

COUNTY: REDWOOD SECTION: 7 TOWNSHIP: 110 N. RANGE: 37 W.

DRAWING SHEET INDEX	
DESCRIPTION	NUMBER
COVER SHEET	1
PLAN VIEW	2
TILE BLOCK - REMOVAL	3
TILE REROUTE	4

gopher ticket #
18271132

As Built SDS
12/13/2018

CONSTRUCTION REQUIREMENTS

- THE PROJECT SPECIFIC CONSTRUCTION AND MATERIAL SPECIFICATIONS PREPARED BY THE MINNESOTA BUREAU OF WATER AND SOIL RESOURCES (BWSR) ALONG WITH THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL BE USED FOR CONSTRUCTION. IF ANY CONFLICTS SHOULD ARISE BETWEEN THESE DOCUMENTS, THE PROJECT SPECIFIC CONSTRUCTION AND MATERIAL SPECIFICATION PREPARED BY BWSR SHALL GOVERN.
- ANY CHANGES TO THE DRAWINGS OR SPECIFICATIONS MUST BE AUTHORIZED BY THE PROJECT ENGINEER OR ENGINEER'S REPRESENTATIVE.
- BEFORE START OF CONSTRUCTION, THE OWNER OF ANY UTILITIES INVOLVED MUST BE NOTICED. THE CONTRACTOR/EXCAVATOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "Gopher State One-Call" AT (651) 564-4002 (TWIN CITIES METRO AREA) OR (800) 252-1188 (ALL OTHER LOCATIONS) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- THE OWNER IS RESPONSIBLE FOR SECURING ALL NECESSARY LAND RIGHTS, PERMITS AND LICENSES REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS.

COOPERATORS AGREEMENT STATEMENT

I HAVE REVIEWED AND UNDERSTAND THE PLANS AND SPECIFICATIONS AND AGREE TO COMPLETE THE WORK ACCORDINGLY. FAILURE TO MEET THESE PLANS AND SPECIFICATIONS MAY JEOPARDIZE ANY COST SHARE APPLIED FOR. I UNDERSTAND THAT IT IS MY RESPONSIBILITY TO SECURE ALL NECESSARY PERMITS AND LICENSES AND TO COMPLETE THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS. MODIFICATIONS TO THESE PLANS OR SPECIFICATIONS MUST BE APPROVED BY PROJECT ENGINEER OR ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION. I ASSUME RESPONSIBILITY FOR NEGOTIATIONS AND AGREEMENTS WITH THE CONTRACTORS.

SIGNATURE: _____ DATE: _____

NRCS DESIGN CERTIFICATION STATEMENT

BY SIGNING THIS PLAN, I HEREBY CERTIFY THAT THIS DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH ALL APPLICABLE NRCS STANDARDS AND SPECIFICATIONS AND IS IN COMPLIANCE WITH PERMITS (EVEN PART 596, 503(R)(7) (A)).

ENGINEERING JOB CLASS : 1

ESTIMATED QUANTITIES TABLE

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
1	MORPHOLOGY	LS	1
2	TILE INVESTIGATION	HR	2
3	TILE BLOCK / REMOVAL - non-shed 9	LF	150
4	TILE REROUTE - NON-TILE - 12" x 12" x 4.4"	LF	165
5	TILE (OUTLET - INCLUDES CORNER-ROUNDING-CURVE FITTING-GEOTEXTILE and RIP RAP (CL II Field stone found on 886) - 600 sheets 3 & 4	LS	1
6	SEEDING	AC	.1
7	MULCHING	AG	1

REV#	DATE	REVISION DESCRIPTION	BY	DATE	DESIGNED BY	CHECKED BY	DATE

DATE OF PLAN: _____

STATE OF MINNESOTA
Board of Water & Soil Resources

PROJECT # 2017-014
SHEET NO. 1 of 4



Construction

Hiring Contractors and Getting the Work Done

Contractor's Invoice

- ❑ Should be based on final, measured and agreed to quantities/work items
- ❑ Needs to be carefully reviewed
- ❑ Becomes basis for submitting cost-share / practice payment requests

698887

CUSTOMER'S ORDER NO.		DEPARTMENT	DATE 12-13-18		
NAME					
ADDRESS					
SOLD BY	CASH	CHARGE	ON ACCT.	MOSE. RETD.	PAID OUT

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1.0	mobilization	\$1500 ⁰⁰	\$1500 ⁰⁰
99 yds	salvage and spread topsoil	\$5 ⁰⁰	\$495 ⁰⁰
0 hrs	excavation - file investigation	\$150 ⁰⁰	\$0 ⁰⁰
6 yds	excavation - spillway method 2	\$10 ⁰⁰	\$60 ⁰⁰
2867 yds	excavation - shallow scrapes	\$35 ⁰⁰	\$10034 ⁵⁰
884 yds	earth fill - embankments type 1	\$575 ⁰⁰	\$5083 ⁰⁰
565 yds	earth fill - embankments type 2	\$575 ⁰⁰	\$3248 ⁷⁵
810 yds	earth fill - fill through ridge method 1	\$472 ⁰⁰	\$3847 ⁵⁰
6.5 hrs	earth fill - ditch fill sletman ^{basement}	\$150 ⁰⁰	\$975 ⁰⁰
5.0 yds	F+I drain filter / diaphragm	\$30 ⁰⁰	\$150 ⁰⁰
1.0	F+I water control structure	\$16,900 ⁰⁰	\$16,900 ⁰⁰
140 yds	F+I Angular riprap class III	\$105 ⁰⁰	\$14,700 ⁰⁰
260 sq	F+I Geotextile for riprap type 4 ^{in sheet}	\$4 ⁰⁰	\$1,040 ⁰⁰
2.0 acres	seeding - Native const. mix 32-24	\$700 ⁰⁰	\$1,400 ⁰⁰
1.0 acres	mulching	\$300 ⁰⁰	\$300 ⁰⁰
16		(\$59,733 ⁷⁵)	\$59,733 ⁷⁵



Construction

Hiring Contractors and Getting the Work Done

Construction Certification

- ❑ Required before payments can be processed
- ❑ Requires appropriate JAA
- ❑ Done as part of signed As-Builts or via separate form

CONSTRUCTION CERTIFICATION FORM

Project Name: "NAME" CREP	Project Number: XXXX-XXX	County / Field Office: "NAME"
Easement Number(s): XX-XX-XX-XX		Engineering Job Class: II

CONSTRUCTION STATUS

The project is fully constructed and deemed complete.

Only "stand alone components" or "designated phases" of the project were completed. Describe in detail below:

VERIFICATION OF QUANTITIES

A final check-out has occurred and the project or project components were constructed as bid with no changes. The contractor's invoice should match the accepted bid for the components that were completed.

A final check-out has occurred and an adjustment of the original bid quantities is necessary and/or approved supplemental construction items were added to the project.

Said construction changes are identified on change orders or thru other appropriate documentation (attach).

Said quantity changes and/or supplemental construction items are described below:

STATUS OF AS-BUILTS

As-built plans have yet to be prepared for this project.

As-built plans have been prepared, and:

A copy is enclosed for your files.

A copy should already be in your possession.

CONSTRUCTION CERTIFICATION STATEMENT

I hereby certify that, to the best of my professional knowledge, judgement, and belief, that the completed work as identified on this form has been reviewed and was done in accordance with the approved construction plans and specifications. Any changes to the plans and/or specifications are or will be so indicated on the prepared as-built plans.

Signature: _____ Date: _____

Form Date: 3/17/2014



Construction

Hiring Contractors and Getting the Work Done

Processing CRP Cost-Share and RIM Practice Reimbursement Payments

(5/05)

COST-SHARE VOUCHER & PRACTICE CERTIFICATION FORM					
A. PAYEE INFORMATION (Check if name and address change)			B. PROJECT INFORMATION		
Name:			I.D. Number		
Address:			BWSR Program: <input type="checkbox"/> Easement <input type="checkbox"/> Cost-Share <input type="checkbox"/> Other		
City, State, & Zip			Practice Type (one only)	Practice Area(s)	Acres Completed:
C. COST INFORMATION <input type="checkbox"/> Installation <input type="checkbox"/> Establishment <input type="checkbox"/> Reinstallation			Type of Request <input type="checkbox"/> Partial <input type="checkbox"/> Final		Completion Date:
R/I	ITEM	QUANTITY	UNIT	UNIT PRICE	COST
R - Receipted Item / Invoiced Item I - In-Kind Contribution (attach additional sheets as necessary) Total:					

I certify that this is an accurate and true summation of the actual costs and quantities of material, labor, and equipment used on the above project. In cases where the receipts included items not used on the project, I have corrected them accordingly.

(Payee Signature) _____
(Date)

D. PAYMENT INFORMATION	EASEMENT PROGRAMS [(c) cannot exceed (a) - (b)]
TOTAL COST OF PRACTICE <input type="text"/>	(a) Maximum Payment Allowed <input type="text"/>
OTHER FUNDING SOURCES (please identify source): <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	(b) Total of Previous Payments <input type="text"/>
Cost-Share Reimbursement Requested <input type="text"/>	(c) Balance Available <input type="text"/>
LANDOWNER / LAND OCCUPIER COST: <input type="text"/>	COST-SHARE PROGRAM ONLY [(b) + (c) cannot exceed 75% of (a)] <small>(DO NOT USE THIS SECTION FOR EASEMENT PROGRAMS)</small>
	(a) Total Cost Approved: <input type="text"/>
	(b) Other public funds: <input type="text"/> % <input type="text"/>
	(c) District Share <input type="text"/> % <input type="text"/>
	(c) District Share <input type="text"/> % <input type="text"/>

E. SWCD CERTIFICATION

I certify that an inspection has been performed and that the items identified in part C have been completed and are in accordance with the required practice standards and specifications.

(Conservation District Technical Representative) _____
(Date)

I certify that I have reviewed this voucher and all supporting information and that to the best of my knowledge and belief, the quantities and billed costs or disbursements are accurate and are in accordance with terms of the program identified.

(Authorized SWCD Representative) _____
(Date)

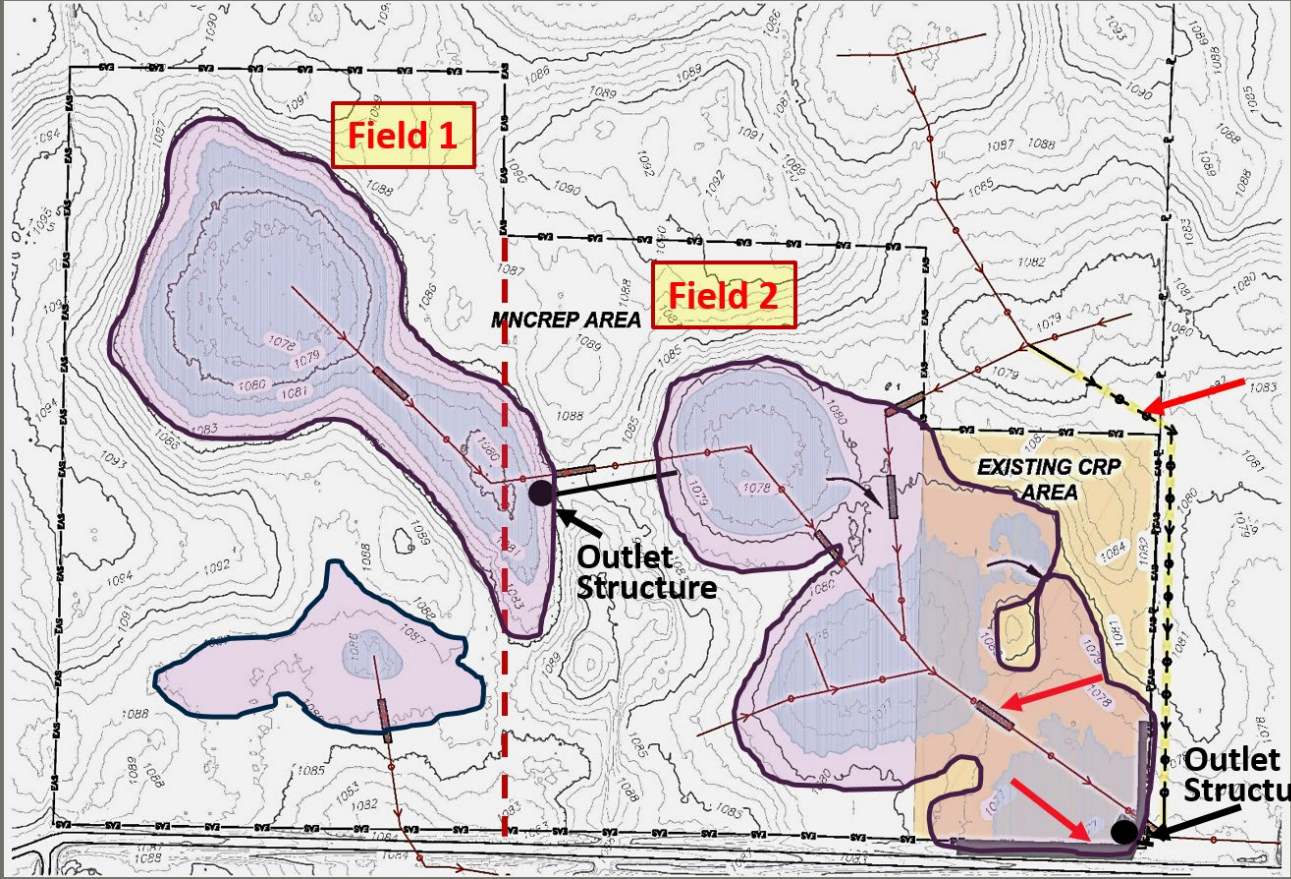


Construction

Hiring Contractors and Getting the Work Done

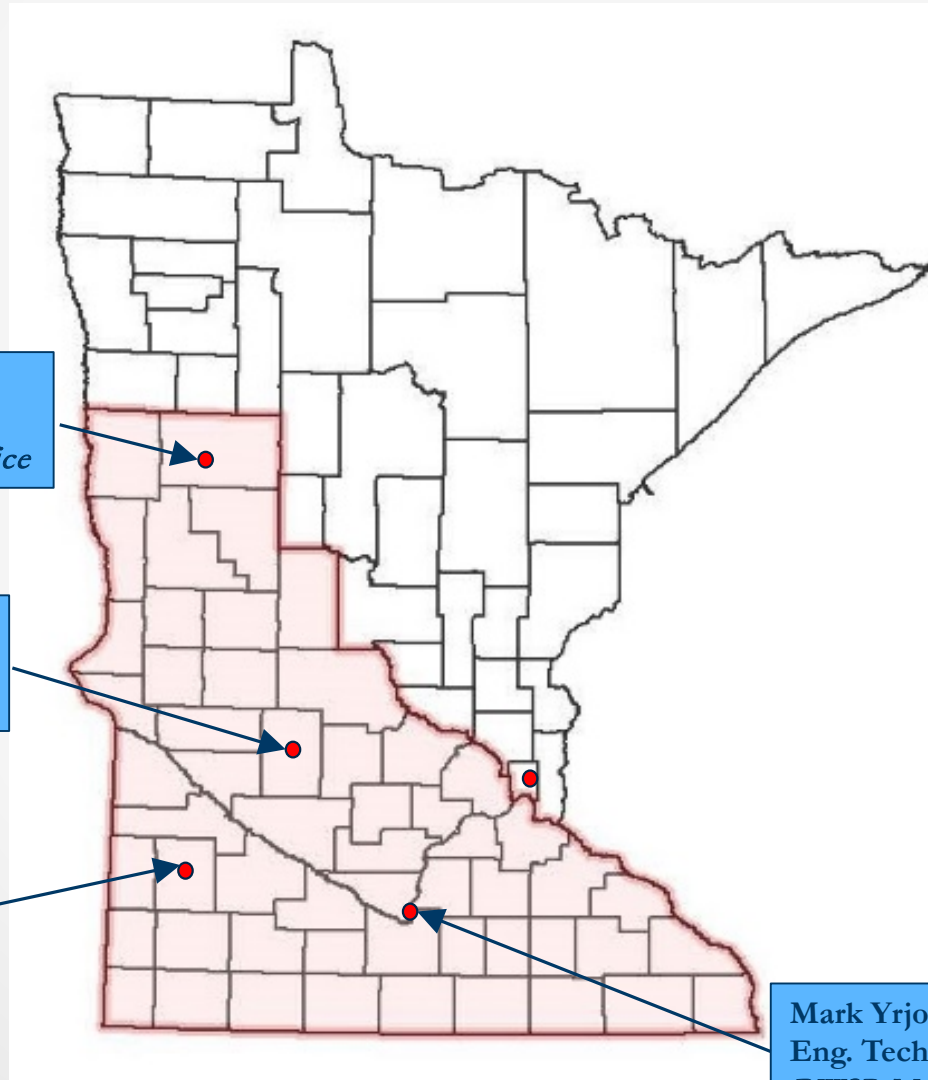
Processing CRP Cost-Share and RIM Practice Reimbursement Payments

- ❑ Will be complicated for some sites
- ❑ Regular Communication and Coordination needed





Questions



Bruce Wilken
Eng. Tech.
BWSR Detroit Lakes Office

Mike Anderson
Eng. Tech.
Kandiyohi SWCD Office

Scott Santjer
Eng. Tech.
BWSR Marshall Office

Mark Yrjo
Eng. Tech.
BWSR Mankato Office

BWSR Construction Support Staff

Terry Ragan
Engineer
507-450-3644

Bruce Wilken
Eng. Tech.
218-846-8425 (Office)
218-849-2820 (Cell)

Mike Anderson
Eng. Tech.
320-292-5466 (Cell)

Scott Santjer
Eng. Tech.
507-537-6097 (Office)
612-230-0298 (Cell)

Mark Yrjo
Eng. Tech.
507-995-0209 (Cell)