

#### **COMMITTEE OF THE WHOLE AGENDA**

COUNTY BOARD ROOM GOVERNMENT CENTER RED WING, MN

SEPTEMBER 1, 2020 8:00 A.M.

Virtual Meeting Notice

"Due to concerns surrounding the spread of COVID-19, it has been determined that in-person meetings or meetings conducted under Minn. Stat. 13D.02 a are not practical or prudent. Therefore, meetings that are governed by the Open Meeting Law will temporarily be conducted by telephone or other electronic means pursuant to Minn. Stat. 13D.021."

"The Goodhue County Board of Commissioners will be conducting a Committee of the Whole Meeting pursuant to this section on September 1, 2020 at 8:00 a.m. in the County Board Room. The County Administrator and/or County Attorney will be present at the meeting location. All County Commissioners attending will appear by telephone or other electronic means. The public may monitor the meeting from a remote site by logging into https://global.gotomeeting.com/join/142677165 or calling <u>1 877 309 2073</u> any time during the meeting." Access Code: <u>142-677-165</u>

#### 1. Finance & Taxpayer Services Succession Plan

Documents:

Finance and Taxpayer Services Succession Plan 9-20.pdf

#### 2. County Ditch 1

Documents:

GoodhueDitch1MtgAug2020.pdf UMPDL Overview.pdf Ditch1ResolutionsSept2020.pdf

#### Finance & Taxpayer Services Succession Plan Overview

- > As the County grapples with a surge of retiring and exiting employees, it must strongly consider how it's going to retain the talent that remains.
- Communities are now forced to compete for talented employees as we also experience the lowest unemployment rates in decades.
- > Although the retirement bubble has left some institutional voids in many departments, it has also provided an *opportunity*.
- > The opportunity is to implement organizational change that will provide for *succession* planning and long-term employee *retention*.
- These organizational changes can actually save money, provide better customer service, and develop more efficient departments by reducing the need for overtime, retaining institutional knowledge, and reducing the need for initial training.

#### **Finance Department**

#### **Issues Overview:**

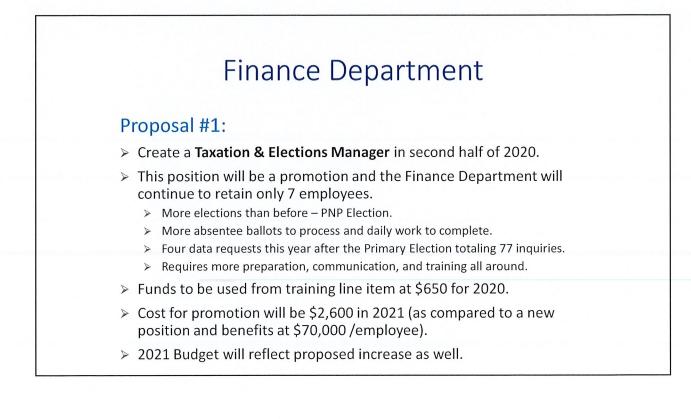
- > Finance Department has had three retirements in 18 mo.
- > In addition, the Finance Controller Position also needed to be filled.
- > This totaled 74 years of institutional knowledge that left.
- Only 3 of the 7 original employees remain within the Finance Department.
- This becomes challenging to train in new employees while performing day to day operations.
- We wont be able to hire employees with taxation and elections knowledge at the same rate we are currently paying certain employees.
- The goal is to implement a Succession Plan that involves retaining current employees.

### Finance Department

#### Issue #1:

- > Currently "understaffed" compared to similar sized counties.
- We have fewer supervisory level employees, and 2-10 few employees overall to perform finance and election daily operations.
- > If we're going to do more with the same then we need to restructure.

	Level - Fina	ance, Taxation, a		
County	Director	Deputy/ Supervisory	Accountants/ Cooridnator	Total
Goodhue	1	1	5	7
Proposed Goodhue	1	2	4	7
Rice	2	0	7	9
Blue Earth	2	2	13	17



### Assessing Department

#### Issue #1:

- > There are currently no other supervisory level positions in the department to assist the Assessor.
- > County didn't and doesn't have anyone ready to assume the Assessor position.
- > Assessors, appraisers, and assessment specialists are extremely hard to recruit.

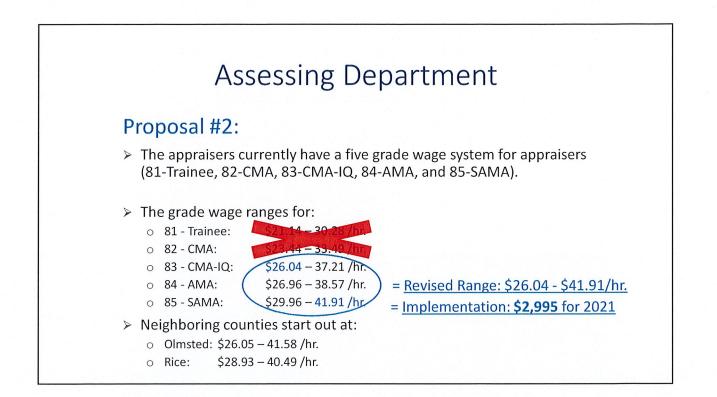
#### Proposal #1:

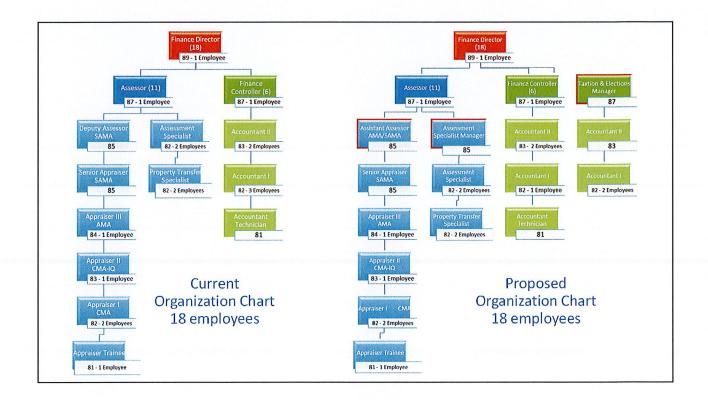
- 1) Create a Assessment Specialist Manager position through promotion in 2021.
   Cost would be approximately \$2,500 and cost neutral in 2021.
- > 2) Allow staff to *fill* the **Assistant Assessor** position through promotion in 2022.
  - > Position would be a promotional lateral move at minimal expense.

### Assessing Department

#### Issue #2:

- Longest tenured appraiser, although talented, has only a little over three years of experience.
- > None of the appraisers came to Goodhue with experience.
- > All applications we recently received are without experience.
- We currently have a five grade wage system for appraisers which is:
   \$5 \$8/hr. less than what our neighboring communities start out at.
- However, our ending wage is within market as compared to neighboring communities.





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### Finance & Taxpayer Services

#### **Recap Proposals:**

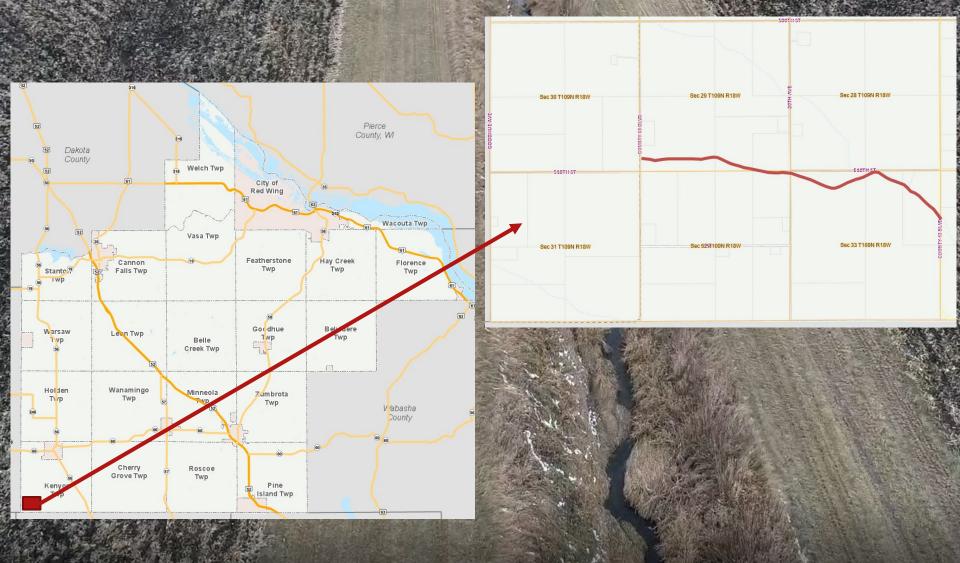
#### **Finance Department:**

- 1. Create a Taxation and Elections Manager position in 2020.
  - Cost would be \$650 in 2020 and <u>\$2,600 in 2021 but cost neutral</u>.
  - Again, the position will be done through a promotion.

#### Assessing Department:

- 1. Create an Assessment Specialist Manager in 2021.
  - This would be done through a promotion for <u>\$2,600</u> in 2021, <u>cost neutral</u>.
- 2. Create a Assistant Assessor in 2022.
  - This would be done through a promotion for 2022, <u>a lateral move</u>.
- 3. Remove the first two grades of the five-grade appraisal wage system starting 2021.
  - $\circ$   $\quad$  Still require that they pass their required certification by certain times.
  - $\circ$   $\quad$  Implement the current employees into the system in 2021.
  - Cost approximately <u>\$2,995</u> total but with budget reductions was over \$13,000.

# Goodhue County Ditch 1





#### Original Design 1954

12 Culverts

- 10 CMP's ranging from (10"- 58")20 -60 feet long
- 2 Concrete sewer pipes (6" and 12") 30 feet long

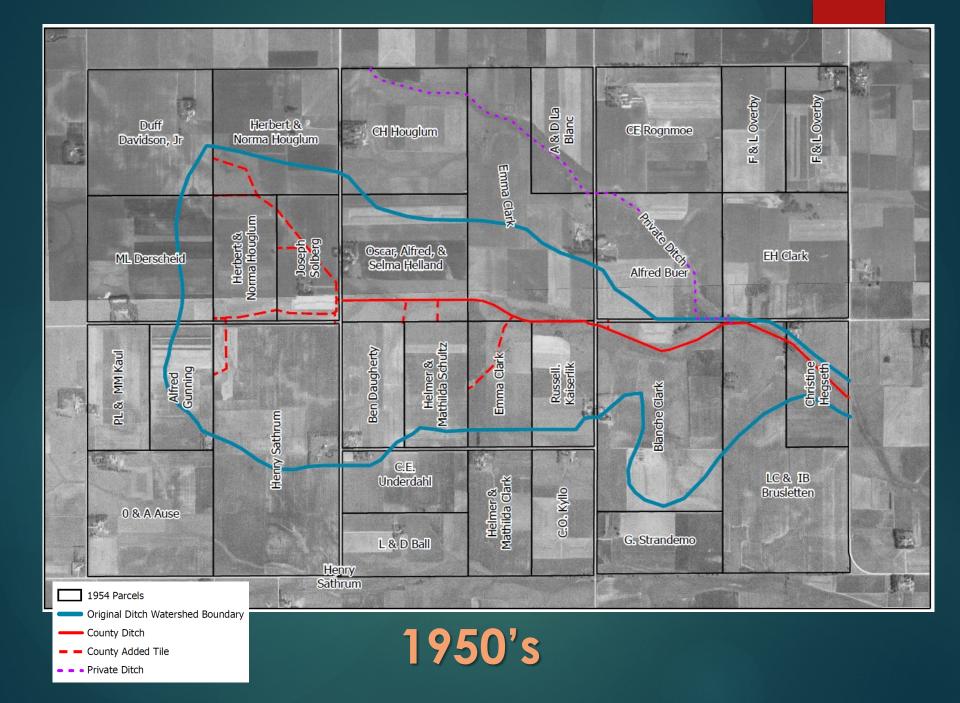
3 Concrete structures

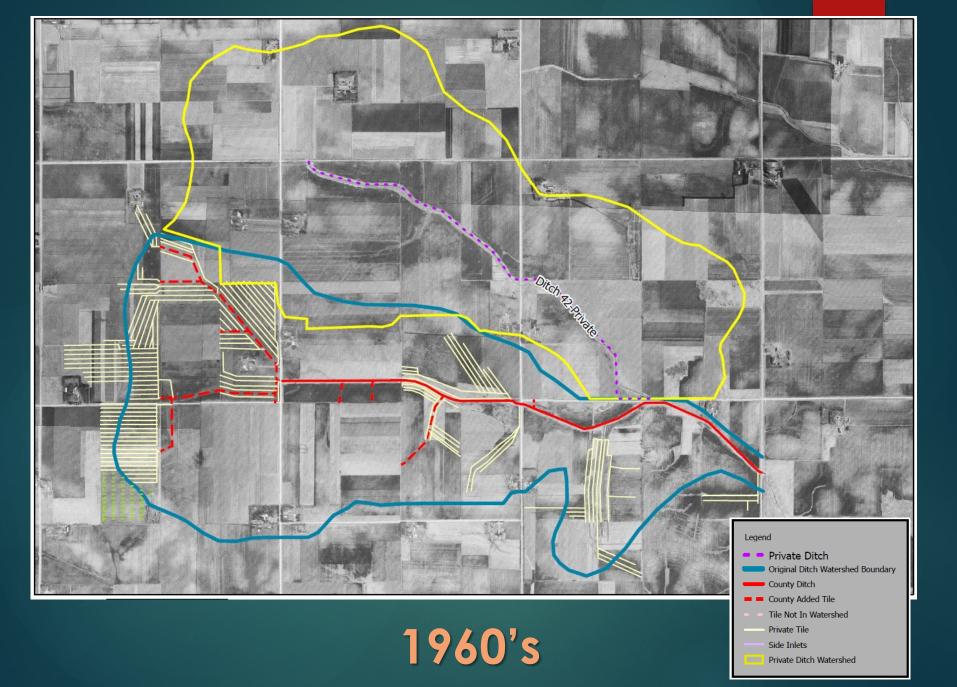
- (2) 3' x 3'x 4'
- (1) 6' x 6' x 5' 3

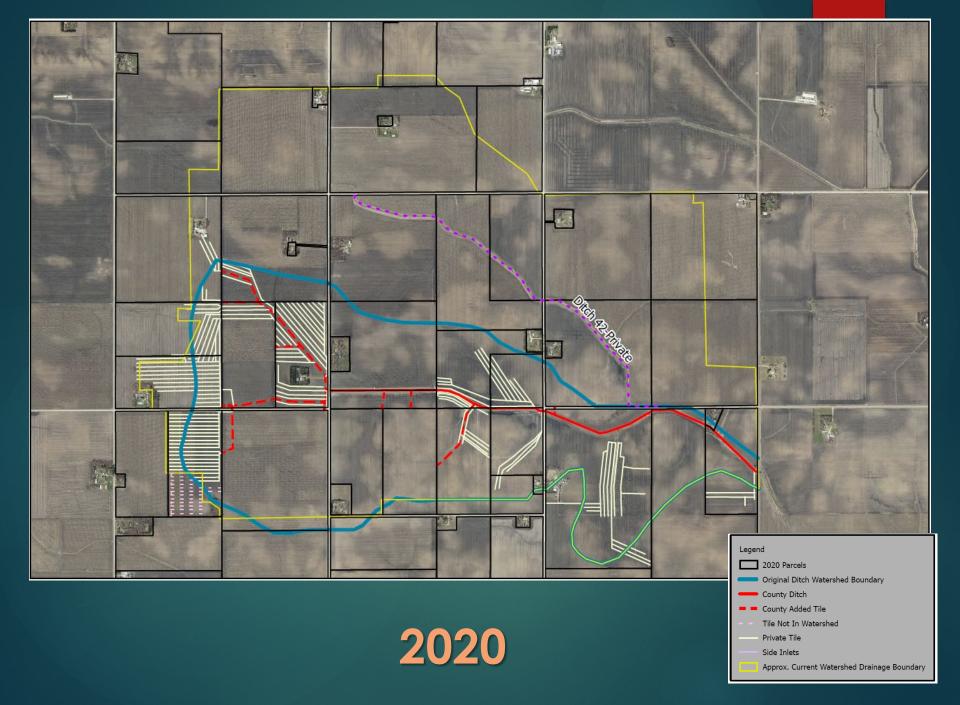
Width of bottom of ditch

- $0+00-30+00 = 6 \text{ feet}^{**}$
- 30+00-114.84 = 4 feet

\*\*Width of bottom of ditch increased in 1961 to 10' bottom between stations 0 to 30+00







- Early 1950's: Request for/preliminary drainage report Boyum/Erdahl/Kyllo
- Mar 1953: Petition of Emma Chambers and others
- **1953-1954:** Drainage report for Solberg/Kaiserlik group
- **1954:** Final Engineer's report County Ditch No. 1
- Feb 21 1955: Letter to Munson Construction Company to begin construction
- May 1955: Contracts assigned: open ditch to Munson Construction Company/tile installation to Benson & Steberg
- 1955: Majority of Ditch work completed
- Sep 1955: Partial payment on ditch
- **Nov 1955:** Published assessment for County Ditch #1
- Mar 1956: Commissioner meeting to consider Final Acceptance
- **1960:** Plan to clean out 0+00 to 30+00' to clean out and widen to 10' bottom
- **1960- 1961:** Established lateral to County Ditch 1 (Group Ditch 42)
- **1964:** Ditch cleanout
- **1966:** Level spoil piles from cleanout
- **1971:** Release for payment in full of Assessment for ditch construction
- 1994: Walker side Inlet/cleanout
- **1995:** Petition– cleanout request
- 1997:
   Clean out of ditch indicates silt removal to gravel layer/reference to 10' bottom throughout and installed 9 side inlets
- **Dec 1997:** Assessment for cleanout w/descriptions
- Nov 2002: Certificate of Lien Release for cleanout
- 2006: Tile repair- Clark farm
- 2007: Tree removal clean out

# County Ditch 1 Timeline

#### 1995 Repairs

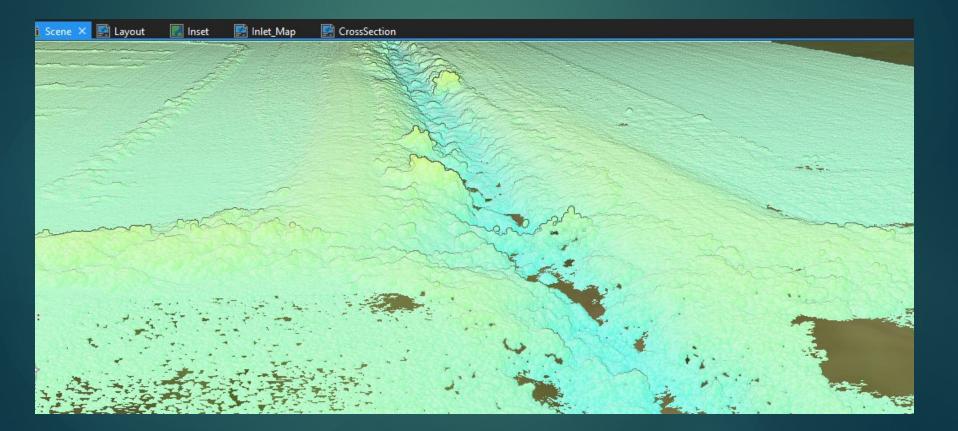
Ditch cleaning Inlet construction Inlet Pipe Crossing re-construction Seeding

Ditch widened to 10' across bottom

Assessed to 31 parcels paid over 5 years at 7% interest

Since that time we have only done tree cleaning (2006)

# December 2019 Drone Lidar Flight



#### 2020 Updates

- Goodhue County hired Rinke-Noonan to assist with the legal aspects of the project
- Goodhue County hired Houston Engineering, Inc to review the record and Lidar data and prepared an Inspection Report

Goodhue County Ditch 1 Inspection

Report and Recommendations

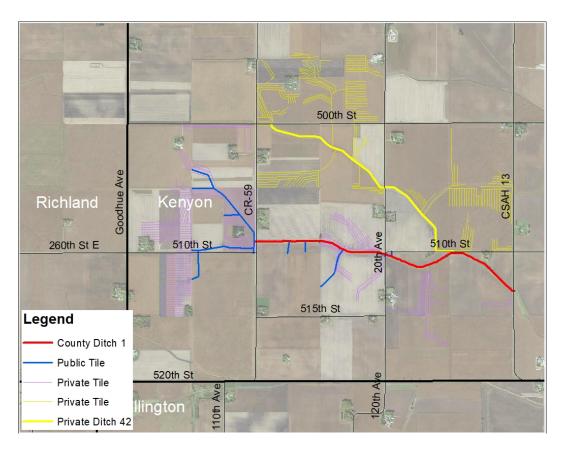
Houston Engineering August 20, 2020







## **OUR TASK**



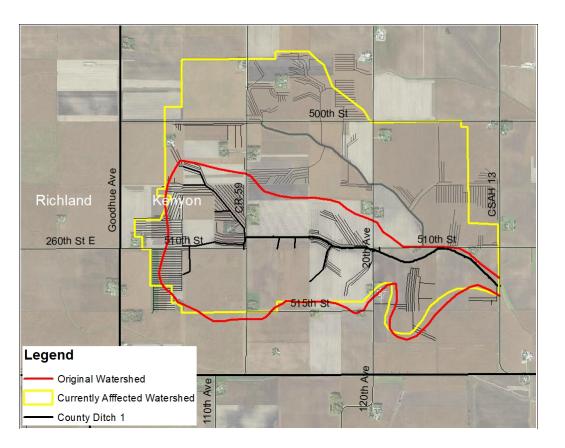
Review historic records and prepare an inspection report

Based on available records and information from Goodhue Co. staff

Scope limited to Main Trunk open channel (excludes public tile and private branch)



## **CD 1 ALIGNMENT AND DIMENSIONS**



**Length** ≈ 11,500 ft (2.2 mi)

## **Bottom Width**

- Originally 6' from 0+00 to 30+00, later improved to 10' width
- 4' from 30+00 to upstream end

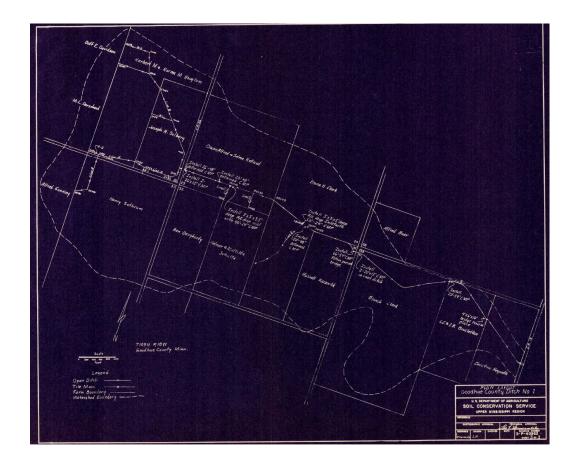
## **Public Drain Tile**

• 12,500 ft (2.4 mi)



# **CONCLUSIONS OF RECORDS REVIEW**

- Alignment, cross-section, and right of way of the system are clear in the record
- Grade (elevation) of the system is unclear
- Need to complete soil borings and analysis to determine as-constructed and subsequently improved condition (basis for repair)





# **CURRENT CONDITIONS**



Vegetation Growth and Debris



Bank Sloughing



### **Channel Meandering**



# **CURRENT CONDITIONS**



### Failing Culverts

### **Culverts Above Channel**





# MAINTENANCE VS. REPAIR

### **Drainage Terms**

- "Repair" Return to historical design and function
- "Improvement" increase capacity or depth
- Generally, "Repair" requires much less process and regulatory engagement

No. 475-Engineer's Report in Ditch Proceedings.	,	***	THE PRESERVE
To the Manual of the David to a firm the time of	2 Oth		
In the Matter of the Petition of Emma Chambers an	d Utners		**********
Drainage Ditch			
and Others, for a and Laterals in the	County of	Goodhue	
State of Minnesota, Designated and Numbere	d as County	Ditch N	o1
To the Honorable Board of County Commissioners			
To the	State of Min	inesota:	
of the County of Goodhue			
of the County of Goodhue The undersigned Civil Engineer, appointed by your order be	aring date the	15th	
of the County of Goodhue The undersigned Civil Engineer, appointed by your order be day of April , 1954, to vi	aring date the cw the route pro	15th posed in the	petition of
of the County of Goodhue The undersigned Civil Engineer, appointed by your order be	aring date the cw the route pro	15th posed in the	petition of
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# RECOMMENDATIONS

### **Complete Ditch Repair**

- Remove debris and sediment
- Straighten channel
- Replace culverts at grade
- Requires additional investigation (repair report)

# Complete Redetermination of Benefits

 Include all parcels benefitting from CD 1

## Investigate CD 1 Tile





# **QUESTIONS AND COMMENTS?**







# Goodhue County Ditch 1

Chapter 103E Overview & Proceedings for Repairs & Improvements

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- The drainage authority "is in an appropriate position to assert the property owners' drainage rights, since it is the only entity authorized to conduct work in the ditch." <u>McLeod Cnty. v. Minn. Dep't of Nat. Res.</u>, 549 N.W.2d 630 (Minn. Ct. App. 1996).
- When a drainage system is established, the drainage authority acquires jurisdiction over its constituent property, and landowners recovering damages or incurring assessments acquire property rights in the ditch system. <u>Fischer v. Town of Albin</u>, 104 N.W.2d 32, 34 (Minn. 1960).

## Drainage Authority Responsibilities

After the construction of a drainage system has been completed, the drainage authority shall inspect and shall maintain the drainage system that is located in its jurisdiction and provide the repairs necessary to make the drainage system efficient.

#### **Protect the Drainage Right:**

- Keep system in repair.
- Prevent damage.
- Prevent unauthorized use.

- Ensure "fair share." Balance interests:
- Economic interests.
- Environmental interests.

- If the engineer determines or is made aware that property not assessed for benefits for construction of the drainage system has been drained into the system or has otherwise benefited, the engineer shall identify the benefitting land. <u>Minn. Stat. § 103E.741, subd. 1</u>.
- The drainage authority shall appoint viewers before the repair contract is awarded. The viewers shall determine the benefits to all property and entities benefited by the original construction of the system and not assessed benefits arising from its construction.
- Consider <u>Minn. Stat. § 103E.351</u> alternative: Redetermination of Benefits & Damages.

If the drainage authority determines that the original benefits or damages determined in a drainage proceeding do not reflect reasonable present day land values or that the benefited or damaged areas have changed, the drainage authority may appoint three viewers to redetermine and report the benefits and damages and the benefited and damaged areas. <u>Minn. Stat. § 103E.351</u> (Redetermination of Benefits & Damages)

Repair means to restore all or a part of a drainage system as nearly as practicable to the same hydraulic capacity as originally constructed and subsequently improved, including:

- Resloping of ditches and leveling of waste banks to stabilize.
- Realignment to original construction to restore the effectiveness.
- Routine operations that may be required to remove obstructions.
- Incidental straightening and replacement of tiles.

Repair of a drainage system may include:

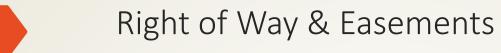
- the preservation, restoration, or enhancement of wetlands;
- wetland replacement under section 103G.222;
- the realignment of a drainage system to prevent drainage of a wetland; and
- the incorporation of measures to reduce channel erosion and otherwise protect or improve water quality.

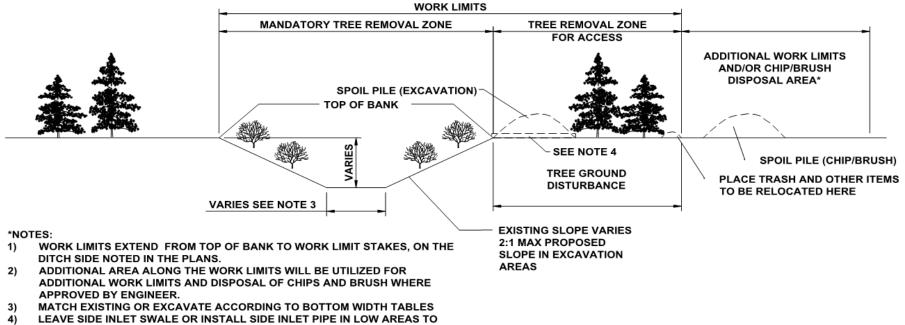


- Board may authorize repairs based on consideration of drainage inspection reports.
- In one calendar year, may not levy assessment greater than greater of:
  - 20 percent of the benefits on the drainage system;
  - \$1,000 per mile of open ditch; or
  - **\$175,000**
- If greater than the amount(s) above, then use the "procedures" of 103E.715 (petitioned repair).

- If a repair petition filed, or a repair requested in inspection report exceeds the section 103E.705, subd. 6 thresholds, the drainage authority appoints engineer before proceeding with repair.
- Drainage authority notices and conducts a public hearing on the engineer's repair report.
- A cost-versus-benefit analysis is not required for petitioned repairs. A petitioned repair may be approved by the drainage authority if it determines that the "repairs recommended are necessary for the best interests of the affected property owners."

- Drainage code procedures invoke eminent domain powers –when a new drainage project is established, the drainage authority acquires an easement for construction and future maintenance of the project.
- Damages are awarded by the viewers for the area occupied by the project and for temporary damages for construction and future maintenance.
- The easement area includes the area physically occupied by the drainage system along with the area impacted by construction, including areas cleared and grubbed of trees and the area over which the spoils were spread and leveled.





PROVIDE DRAINAGE AND AS DIRECTED BY ENGINEER



NOT TO SCALE

30

- The cost of repairing a drainage system is apportioned pro rata on all property and entities assessed benefits, generally. <u>Minn. Stat. §</u> <u>103E.728, subd. 1</u>. Some unique exceptions exist in subdivision 2 & 3.
- Pro rata assessment can be globally updated through redetermination of benefits proceeding. <u>Minn. Stat. § 103E.351</u>. Or, additional properties added using <u>Minn. Stat. § 103E.741</u> (current benefits not updated).
- New in 2019: Relative Runoff & Relative Sediment Delivery based repair cost apportionment. Based upon geographic information system technology including, but not limited to, topographic data, soils and land use data, property, road, and utility corridor identification data, with on-site verification. <u>Minn. Stat. § 103E.729</u>.

- Once final repair construction costs are known, the Auditor prepares a drainage lien statement in tabular form and records the lien against all benefited properties. <u>Minn. Stat. §103E.601</u>.
- Drainage liens may be apportioned over 20 or less equal, annual installments, as determined by the Drainage Authority. Interest is an additional drainage lien on all property until paid. Drainage liens may be prepaid to avoid interest charges. Interest may be paid at any time, computed to the date of payment, except that after interest is entered on the tax lists for the year, it is due as entered without a reduction for prepayment. <u>Minn. Stat. § 103E.611</u>.

- "Improvement" means the tiling, enlarging, extending, straightening, or deepening of an established and constructed drainage system including construction of ditches to reline or replace tile and construction of tile to replace a ditch. <u>Minn. Stat. §</u> <u>103E.215, subd. 2</u>.
- Petition & bond must be filed. Minn. Stat. §§ <u>103E.215</u>, <u>subd. 4</u> and <u>103E.202</u>. Bond covers costs of improvement proceedings if contract for construction is not awarded.
- Engineer appointed to prepare preliminary survey of improvement. Engineer files report; drainage authority orders preliminary hearing within 30 days of order. Notice by mail given to all landowners likely to be assessed; affected political subdivisions; and DNR.

- Required determinations to advance to order for detailed survey report and appointment of viewers:
  - The proposed drainage project outlined in the petition or modified by the engineer is feasible;
  - There is necessity for the proposed drainage project;
  - The proposed drainage project will be of public benefit and promote the public health after considering criteria in Minn. Stat. § 103E.015, subd. 1;
  - The outlet is adequate.
- Order dismissing the petition after the preliminary hearing may be appealed; an order directing the detailed survey report and appointment of viewers may not be appealed

- Viewers (three disinterested residents of the state qualified to assess benefits and damages) determine benefits and damages of property affected by improvement under <u>Minn. Stat. § 103E.315</u>.
- Engineer, viewers, and DNR Commissioner file reports; drainage authority orders final hearing not less than 25 days but not more than 50 days after order. Notice of the final hearing is given by posting, publication, and mail

- Required determinations to establish a drainage project:
  - The detailed survey report and viewers' report have been made and other proceedings have been completed under chapter 103E
  - The reports made or amended are complete and correct
  - The benefits and damages have been properly determined
  - The estimated benefits are greater than the total estimated costs, including damages
  - The proposed drainage project will be of public utility and benefit and will promote the public health
  - The proposed drainage project is practicable.
- Appeals under Minn. Stat. §§ 103E.095 and 103E.091



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# UNDERSTANDING MINNESOTA PUBLIC DRAINAGE LAW

## **A Handbook for Practitioners**

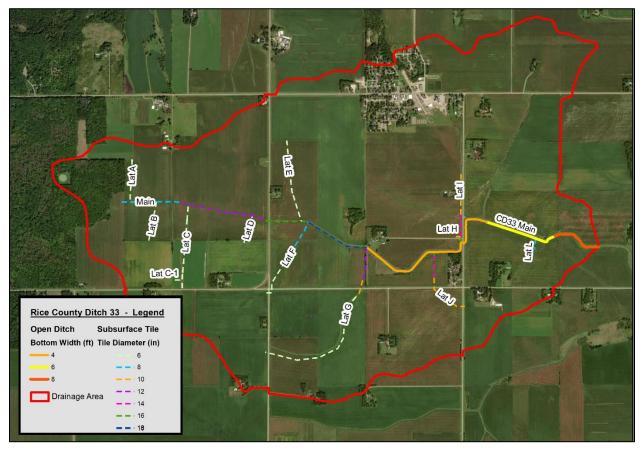
## **OVERVIEW**

April 2020

Minnesota Board of Water and Soil Resources



Example Chapter 103E Drainage Ditch with Buffer Strips



Example Chapter 103E Drainage System with Open Ditch and Subsurface Tile

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## **Purposes of this Handbook**

The precursor to this updated edition of **Understanding Minnesota Public Drainage Law** was first published by the Association of Minnesota Counties (AMC) in 1998 and subsequently updated in 2002 with the subtitle "2002 Overview for Decision-makers." The purpose was to support more consistent knowledge and application of Minnesota public drainage law. That purpose continues and is expanded with this update to be "A Handbook for Practitioners" in two versions. The **Handbook** version is comprehensive for practitioners who seek detailed information about Minnesota public drainage law authorities, requirements, process, and associated information. This companion **Overview** version is for decision-makers and others seeking a summary of this information. The updated purposes include:

- 1) Enhance understanding and administration of current Minnesota public drainage law (drainage code) (Minnesota Statutes <u>Chapter 103E Drainage., 2019</u>).
- 2) Summarize and clarify roles and responsibilities of the primary players involved in public administration of Chapter 103E drainage systems.
- Provide summary flow charts of process steps involved in different categories and types of Chapter 103E drainage proceedings and procedures, as well as more detailed explanations of the process steps and requirements for separate types of proceedings or procedures.
- 4) Provide electronic links to applicable Chapter 103E and other statute provisions by section (§) and to associated information in the <u>Minnesota Public Drainage Manual, 2016 (MPDM)</u>, for more comprehensive reference.
- 5) Clarify understanding of provisions in Chapter 103E that enable multipurpose drainage water management and associated Best Management Practices (BMPs).

#### Disclaimer

The **Handbook** and **Overview** documents provide organized information and guidance about Chapter 103E. They do not supersede statute, rule or other law. Readers are cautioned to obtain legal advice when using specific drainage proceedings or procedures, including checking for any changes in drainage law and pertinent case law, as appropriate. When reading Chapter 103E, note that many provisions have not been fully updated to more clearly reflect watershed districts as drainage authorities.

## Section 1. INTRODUCTION

### 1.1 Brief History of Drainage Law in Minnesota

Minnesota drainage law began in 1858 when Minnesota became a state, with the passage of "An Act to Regulate and Encourage the Drainage of Lands." That law recognized drainage corporations of multiple landowners. For a time, township boards of supervisors were drainage authorities for group drainage projects. Between 1883 and 1887, state drainage law was passed and amended that was significantly similar in scope to the current Chapter 103E **Drainage**, making county boards drainage authorities. Over the years, drainage authorities have included a Red River Basin commission, the State of Minnesota, and district courts. Current Chapter 103E drainage authorities include:

- county board of commissioners,
- joint county board of representative commissioners from affected counties, and
- watershed district board of managers.

A substantial portion of Minnesota's agricultural lands receive productivity and associated economic benefits from Chapter 103E drainage systems involving open ditches and/or subsurface tile. Many roads, other properties and some municipalities also receive drainage benefits.

Minnesota has approximately 19,150 miles of drainage ditches and extensive untallied miles of subsurface tile installed and maintained under Chapter 103E. These drainage systems are owned by the benefited property owners and administered by the applicable local government unit drainage authority, in accordance with Chapter 103E. These systems are referred to as "public" drainage systems.

Over the years, Minnesota drainage law has been periodically revised, and recodified several times, via the state legislative process. Since 2006, the stakeholder Drainage Work Group (DWG) has provided a forum for discussion of Chapter 103E drainage law and been a key source of recommendations for revisions. The DWG is coordinated by the Minnesota Board of Water and Soil Resources (BWSR) in accordance with § 103B.101 Board of Water and Soil Resources, Subd. 13. Drainage stakeholder coordination.

## **1.2 Key Characteristics of Chapter 103E**

- Minnesota Statutes Chapter 103E Drainage does not have companion rules.
- Chapter 103E proceedings and procedures are primarily petitioned based by affected or interested property owners, individuals or entities. However, drainage authorities also make findings and order repairs and other types of drainage proceedings or procedures based on inspection of the drainage system and associated reports.
- All drainage system costs are paid by the owners of property determined to be benefited by the drainage project or drainage system in proportion to the benefits, **with two exceptions**:
  - 1) Since 2000, external sources of funding can be used in coordination with drainage system funds for the specific purposes of wetland preservation or restoration, creation of water quality improvements, or flood control.
  - 2) Since 2019, repair costs alternatively can be apportioned based on relative runoff and relative sediment delivery from all property contributing runoff to the drainage system.
- Some types of drainage proceedings and procedures require an engineer's report, some require a viewers' report and a property owners' report, and some an inspection report.
- Most types of drainage proceedings and procedures require a public hearing and drainage authority findings and order.
- Appeal rights involving the applicable district court are provided for certain types of drainage authority orders.
- Drainage authority advisors include county auditors, watershed district secretaries and administrators, county or watershed district drainage system managers, engineers, attorneys, viewers, inspectors, and involved state and federal agencies.

## 1.3 Roles and Responsibilities in Drainage System Administration

A summary of entities involved in Chapter 103E drainage system administration, and their roles and responsibilities, are outlined in **Table 1-1. Summary of Drainage System Roles and Responsibilities.** This table may not include all possible situations.

## Table 1-1. Summary of Drainage System Roles and Responsibilities

#### Affected Property Owner(s) or other Eligible Individual or Entity

- Prepare and file a petition, and bond, if required, or seek legal assistance for this
- Share in the costs of a petitioned drainage project proceeding and/or the drainage system, as required

#### **Drainage Authority**

• Act as the drainage system's governing body – administer proceedings and procedures; approve petitions; hold hearings; make findings; issue orders; appoint engineer(s), viewers, and inspector(s); engage or retain attorney(s); apportion costs; etc.

#### County Auditor, Watershed District Secretary and Administrator, Drainage Manager

- Maintain drainage system records, including petitions, engineer's reports, drainage system plans and profiles, viewers' reports, property owners' reports, records of proceedings and procedures, inspection reports, etc.
- Maintain finances and financial records for each drainage system
- Receive filed petitions, engineer's reports, viewers' reports, inspection reports, etc.
- Provide petitions, reports, bond certificates, other documents to drainage authority
- Schedule, provide notice and assist hearings and other pertinent communications
- Recommend or assign drainage system alphanumeric identifications
- Order the first meeting of viewers
- Prepare and mail property owners' report based on viewers' report
- Collect assessments and charges
- Receive appeals of certain drainage authority orders for benefits, damages, project dismissal or establishment and transmit to the drainage authority
- File notice of appeal of benefits and damages or orders with the applicable district court administrator

County Attorney or Private Attorney (Engaged or retained by the drainage authority.)

- Review and prepare opinions about adequacy of petitions and approve associated bonds, as applicable, on behalf of the drainage authority
- Advise the drainage authority about drainage law and associated provisions of law
- Prepare construction contract and bond (with engineer and petitioners' attorney, as applicable)

**Drainage Inspector** (Appointed by the drainage authority. May be a county highway engineer, but not a county commissioner.)

- Inspect drainage systems as directed by the drainage authority
- Coordinate with property owners and may work with an inspection committee
- Prepare and file inspection reports
- May assist enforcement of Chapter 103E drainage systems and buffer strips

**Engineer** (Appointed by the drainage authority.)

- Required to file an oath and bond when appointed by a drainage authority
- Complete preliminary and detailed surveys, prepare and file associated reports, plans and specifications, construction inspection and as-built documents
- Conduct investigations, prepare and file petitioned repair reports
- Maintain field notes and file with the county auditor or watershed district secretary

**Viewers** (Appointed by the drainage authority. Panel of three "disinterested residents" of Minnesota qualified to determine benefits and damages.)

- Determine benefits and damages for properties affected by a drainage project or drainage system
- Viewers team prepares viewers' report and typically the lead viewer presents to the drainage authority at hearings, and at appeal trials, as applicable

#### Department of Natural Resources

- Conduct advisory review and reports for Preliminary and Detailed Engineer's Reports for "drainage projects", including watershed district engineer's reports and plans for drainage projects
- Must be notified and can review repair plans that may affect public waters
- Can contest and help to resolve repair depths that may affect public waters
- Provide a Letter of Permission, if required for drainage work in public waters
- Issue a Public Waters Work Permit, if required for a drainage project that substantially affects public waters

#### **Board of Water and Soil Resources**

- Conduct advisory review and reports for watershed district engineer's reports and plans for drainage projects
- Coordinate and compile ditch buffer strip annual reporting
- Coordinate and represent the stakeholder Drainage Work Group (DWG)

**Wetland Effects Reviewers** (Can involve local, state and federal government staff regarding the MN Wetland Conservation Act, U.S. Clean Water Act, U.S. Rivers and Harbors Act, or USDA Farm Bill wetland conservation requirements, as applicable.)

• Determine compliance with applicable legal requirements and advise mitigation, if necessary

## **1.4 Categories and Types of Drainage Proceedings and Procedures**

The terms "drainage project", "project", "drainage proceeding", and "proceeding" can be confusing, because some of these terms are defined quite narrowly in Chapter 103E but are also used more broadly within and outside the statute. The term "procedure" is also used in Chapter 103E, including in the definition of a "proceeding."

Repairs are often referred to as a "project" but are not a "drainage project" in Chapter 103E. Some other types of drainage proceedings can also be about a project that is not a "drainage project" such as

impounding, rerouting and diverting drainage system waters. The context of use of these terms in Chapter 103E is key to understanding the applicable meaning.

The term "proceeding(s)," is also used more broadly than its statutory definition to refer to some drainage proceedings or procedures that may or may not require a petition or are not a "drainage project". There are many procedures in Chapter 103E that are not a "proceeding." This Handbook and Overview use the terminology "Drainage Proceedings and Procedures," as overarching terminology that includes the categories "Drainage Projects" "Repairs" and "Other Proceedings or Procedures." The general definitions below, together

#### § 103E.005 **DEFINITIONS**:

Subd. 11. **Drainage project**. "Drainage project" means a new drainage system, an improvement of a drainage system, an improvement of an outlet, or a lateral.

Subd. 22. **Proceeding**. "Proceeding" means a procedure under this chapter for or related to drainage that begins with filing a petition and ends by dismissal or establishment of a drainage project.

with Figure 1. Categories and Types of Drainage Proceedings and Procedures, define and organize these categories and types of drainage proceedings and procedures. Detailed information about drainage proceedings, procedures and associated processes are provided in Section 3. DRAINAGE PROJECTS, Section 4. DRAINAGE SYSTEM REPAIRS, and Section 5. OTHER PROCEEDINGS OR PROCEDURES of the Handbook.

#### **Drainage Projects**

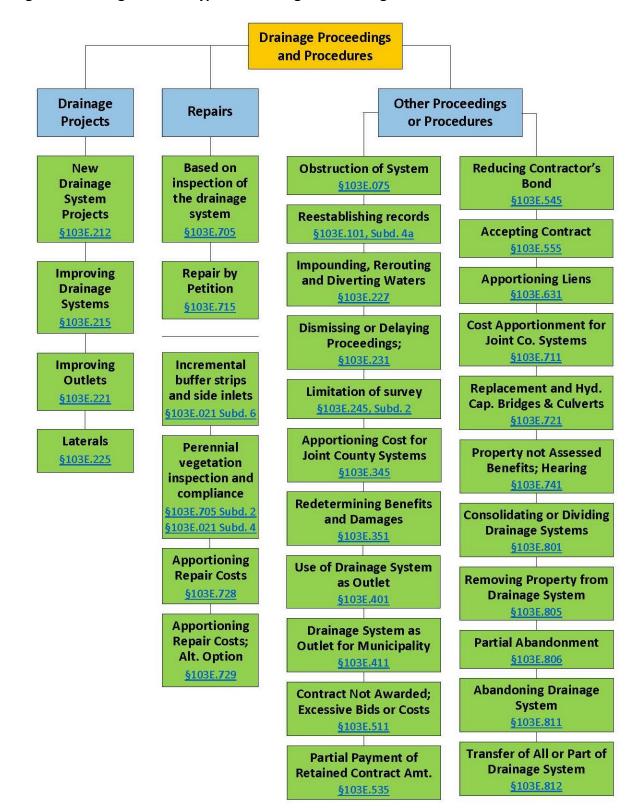
- New Drainage System Projects: Establishment of a new drainage system of open ditch or subsurface tile, or both, to drain property.
- Improving Drainage Systems: Enlarging, extending, straightening or deepening an existing drainage system to increase hydraulic capacity and drainage efficiency.
- **Improving Outlets:** A project to prevent overflow onto adjoining properties by extension of an existing drainage system downstream, and/or enlargement of an existing drainage system outlet.
- Laterals: Construction of a branch, or similar extension of an existing drainage system to better connect and drain land within the watershed of the drainage system.

#### Repairs

- **Repairs based on inspection** of the drainage system can include: clean out of sediment deposits, removal of undesirable vegetation or other obstructions, replacement of a failing hydraulic structure, permissive establishment of permanent strips of perennial vegetation (ditch buffer strips) or side inlet controls, and other erosion control that does not require acquisition of additional land rights by the drainage system. Drainage authorities can initiate this type of repair without a petition.
- **Petitioned repairs** can include the types of repairs listed above, as well as repairs that require the acquisition of additional land rights or create new benefits, such as re-sloping of ditch side slopes, installing a 2-stage ditch cross section, removing trees, or installing other erosion control.

### **Other Proceedings or Procedures**

These include many types of drainage proceedings or procedures shown in **Figure 1-1. Categories and Types of Drainage Proceedings and Procedures** below that may or may not require a petition but require a hearing. A few of the procedures can occur within the process of a drainage project proceeding or petitioned repair proceeding.





## **1.5 Other Key Terms and Their Meaning**

**Table 1-2. Other Key Terms Used in Chapter 103E** helps clarify the meaning of other key terms used in Chapter 103E that can be confusing. Again, the context of use of these terms in Chapter 103E is key to understanding the applicable meaning.

## Table 1-2. Other Key Terms Used in Chapter 103E

"assess" "assessing" "assessed" "assessment" – These terms can mean the evaluation or determination of something (e.g., by the engineer, viewers, or drainage authority), or can refer to a levy against property for the cost of a "drainage project", "repair", or "other proceeding or procedure."

"damages" – Damages are the costs of a drainage system paid to the affected property owner(s) by the drainage system for land rights acquisition, including permanent and/or temporary right-of-way, diminished land value, or damage to a conservation program practice caused by a "drainage project" or "repair."

"view" "viewing" – This is the determination of benefited properties, monetary benefits, and damages of a drainage system by a team of three (3) "viewers" who are disinterested residents of Minnesota qualified to perform this role. The legal terms "view" "viewer" and "viewing" can be found in the 1851 Territorial Statutes and early state statutes of Minnesota, and in other law, indicating visual inspection and associated official determination. Examples in early Minnesota statutes include "fence viewers" who were empowered to police the identification and maintenance of "partition fences" along property boundaries, and "viewing" of a site on the ground by government officials and/or jurors to help make a legal determination.

"**bond**" – There are several types of bonds required and/or authorized by Chapter 103E, but not always clearly named in the statute.

- **Petitioners' bond** to provide surety for payment of the costs of a "drainage project" proceeding until the project is ordered by the drainage authority, or in case the petition and proceeding is dismissed.
- **Bid bond** from a contractor submitting a construction bid, providing surety that the contractor will honor their bid and sign a contract, if selected.
- **Construction performance and payment bond** is required of the contractor awarded a construction contract to provide surety for project completion if the contractor defaults on the contract, including payment of workers, suppliers and subcontractors.
- **Financing bonds** for drainage projects, repairs or certain other proceedings or procedures can include the following types.
  - Drainage bond
  - Temporary drainage bond
  - Definitive drainage bond
  - Drainage funding bond

## **1.6 Jurisdiction Over Chapter 103E Drainage Systems**

Chapter 103E provides jurisdiction to the drainage authority that is critical for the legal administration of a Chapter 103E drainage system. Case law indicates that drainage authorities must carefully follow Chapter 103E.

On behalf of the drainage system, the drainage authority acquires a perpetual right-of-way easement over the property where a drainage system passes. This easement provides access for construction, inspection, repair and associated Chapter 103E proceedings and procedures for the drainage system. Land rights compensation and other "damages" are paid by the drainage system to the applicable property owners for permanent right-of-way acquisition, temporary right-of-way and/or crop damage, damage to a conservation program practice and other damages associated with a drainage project or repair, as applicable.

The drainage authority is responsible to administer drainage proceedings and procedures and to maintain the drainage system and its records, on behalf of the benefited property owners.

## 1.7 Due Process in Chapter 103E

The components of due process in Chapter 103E include:

- **petition** (by eligible property owners, an individual, or entity, as applicable),
- reports (inspector's, engineer's, viewers', property owners', repair cost apportionment),
- **hearings** (preliminary and final hearings for drainage projects, one hearing for most other proceedings and procedures, and other permissible hearings),
- drainage authority findings and orders,
- compensation for land rights and other damages,
- appeal provisions for specific types of drainage authority orders.

## Section 2. PLANNING AND GENERAL CONSIDERATIONS

## 2.1 Informal Meetings

A drainage authority may hold informal meetings in addition to the required Chapter 103E meetings or hearings "to inform persons affected by the drainage system about the drainage proceedings and provide a forum for informal discussions." These informal meetings can have substantial value when used for early coordination and consideration of drainage projects, drainage system inspections, repairs and other proceedings or procedures.

## 2.2 Considerations Before Drainage Work is Done

There are three subdivisions in § 103E.015 **Considerations Before Drainage Work is Done.**, summarized as follows:

- Subdivision 1. Environmental, land use, and multipurpose water management criteria: applies only to "drainage projects" and includes nine criteria that must be considered by the drainage authority and should be addressed in the engineer's reports.
- Subd. 1a. Investigating potential use of external sources of funding and technical assistance: applies to "drainage projects" and "petitioned repairs", all of which require an engineer's report. The purpose is to promote coordination of public (program) and drainage

system assessment funding for multipurpose water management drainage projects and repairs, considering eligibility, availability, and timing of external funding.

• Subd. 2. Determining public utility, benefit and welfare: applies to all work affecting Chapter 103E drainage systems, with a focus on consideration of conservation of natural resources and other public interests and matters of law when a drainage authority makes findings regarding public utility, benefit and welfare of drainage system work. This subdivision, as well as Subdivision 1, can involve consideration of state and federal public waters and wetland conservation laws.

## 2.3 Local Water Management Plan Considerations

Comprehensive local water planning in Minnesota necessarily addresses multipurpose water management. For "drainage projects", § 103E.015, Subdivision 1, clause (2) requires the drainage authority to consider alternative measures identified in applicable state-approved and locally adopted water management plans for five purposes:

- (i) conserve, allocate, and use drainage waters for agriculture, stream flow augmentation, or other beneficial uses;
- (ii) reduce downstream peak flows and flooding;
- (iii) provide adequate drainage system capacity;
- (iv) reduce erosion and sedimentation; and
- (v) protect or improve water quality.

Local water management plans include county, watershed district and water management organization plans, as well as One Watershed, One Plan. Other provisions of Chapter 103E enable multipurpose considerations for repairs and certain other proceedings or procedures.

## 2.4 Best Management Practices

Early coordination about alternative measures and multipurpose drainage management is very important for consideration of multipurpose best management practices (BMPs) and the potential to integrate use of external sources of funding for certain purposes in addition to the drainage purpose. Informal meetings can be very helpful to coordinate with property owners, as well as well as with local water planners and representatives of conservation programs that might provide external funding (typically cost-share) for eligible BMPs.

## 2.5 Drainage System Cost Apportionment

- All costs for constructed "drainage projects" must be apportioned to the benefited property owners in proportion to the monetary benefits for each land unit benefited by the project, as determined by the team of viewers and approved by the drainage authority (i.e., pro rata based on benefits).
- The costs of a "**repair**" anywhere on a drainage system are apportioned pro rata:
  - $\circ\;$  to all property benefited by the drainage system based on benefits of record, or
  - can be apportioned to all property contributing runoff to the drainage system based on relative runoff and relative sediment delivery to the drainage system.
- Improvement projects can involve separable repair costs, in which case improvement costs are apportioned based on benefits of the improvement and repair costs are apportioned to all property in the benefited area or runoff contributing area of the drainage system.

- The costs for most "other proceedings or procedures" are apportioned pro rata to all properties in the benefited area of the drainage system based on benefits of record.
- If external funding is used for specific purposes allowed in Chapter 103E and in accordance with requirements of the funding source, the costs for the drainage purpose of a "drainage project" or "repair" are apportioned in accordance with Chapter 103E.

## 2.6 Petition and Bond – General Requirements

- "Drainage projects" "petitioned repairs" and many "other proceedings or procedures" begin by eligible property owner(s) or an eligible affected or interested party properly filing a petition with the applicable drainage authority representative (applicable county auditor(s) or watershed district secretary). See petition requirements in the applicable section below.
- "Drainage projects" and "petitioned repairs" require the petitioner(s) to submit and maintain a petitioners' bond (at least \$10,000) as surety to pay the costs of the proceedings, if the petition is dismissed or the project is not constructed. These costs can become part of the project cost and apportioned, if the project is ordered by the drainage authority.
- One type of "other proceedings or procedures" (§ 103E.227) can require a petitioners' bond.
- Chapter 103E includes provisions for joint and several liability of petitioners for a "drainage project" and requirements for withdrawing from a petition or a petition being dismissed.

## Section 3. DRAINAGE PROJECTS

"Drainage projects" include:

- establishing a new drainage system (§ 103E.212),
- improving an existing drainage system (§103E.215),
- improving the outlet of an existing drainage system (§ 103E.221), and
- establishing a lateral to an existing drainage system (§ 103E.225).

## 3.1 Drainage Project Petition, Bond, and Where to File

- All "drainage projects" require a petition that must:
  - $\circ$  state that the project will benefit and be useful to the public (or be of public benefit and utility) and promote (or improve) the public health,
  - state that the petitioners will pay all costs incurred if the project proceedings are dismissed or a contract for construction is not awarded (joint and several liability),
  - be accompanied by a petitioners' bond of at least \$10,000 to pay for costs of the proceedings until the project is ordered, or in case the proceedings are dismissed, except for a petition by an affected county or watershed district for improvement of an outlet of an existing drainage system.
- Table 3-1. Additional Requirements for "Drainage Project" Petitions provides specific information about who can file a petition and additional required content of the petition for the different types of "drainage projects."
- "Drainage project" petitions must be filed as follows:
  - $\circ\;$  for a project within one county where there isn't a watershed district, with the county auditor

- for a project within more than one county where there isn't a watershed district, with the auditor of the county with the greatest area that the project passes over
- $\circ~$  for a new drainage system or improvement of an existing drainage system within a watershed district, with the watershed district secretary

Table 3-1. Additional Requirements for "Drainage Project" Petitie	ons

Drainage Project Type	Who Can File a Petition	Additional Required Contents of the Petition
Establishment of a New Drainage System § 103E.212	<ul> <li>Majority of owners of property that the proposed drainage system passes over. or</li> <li>Property owners owning at least 60% of the area the proposed system passes over.</li> </ul>	<ul> <li>Describe the 40-acre tracts or government lots and property the proposed system passes over, including names and addresses of property owners.</li> <li>Describe the starting point, course and terminus of the system.</li> <li>State why the drainage system is necessary.</li> </ul>
Improvement of an Existing Drainage System § 103E.215	<ul> <li>At least 26% of owners of property affected by the proposed improvement. Or</li> <li>At least 26% of the owners of property that the proposed improvement passes over. Or</li> <li>Owners of at least 26% of the property area affected by the proposed improvement. Or</li> <li>Owners of at least 26% of the property area that the proposed improvement passes over.</li> </ul>	<ul> <li>Designate the drainage system to be improved by number or description.</li> <li>State that the drainage system has insufficient capacity or needs enlarging or extending to furnish sufficient capacity or a better outlet.</li> <li>Describe the starting point, general course, and terminus of any extension.</li> <li>Describe the improvement, including names and addresses of the owners of all property the improvement passes over.</li> </ul>
Improvement of an Outlet of an Existing Drainage System § 103E.221	<ul> <li>By the Board of an affected county or watershed district. or</li> <li>By at least 26% of owners of adjoining overflowed property. or</li> <li>By owners of at least 26% of area of the overflowed property.</li> </ul>	<ul> <li>Describe the property that has been or is likely to be overflowed, including names and addresses of landowners, and the location and outlet of the overflowed drainage system.</li> <li>Identify the drainage system(s) that have caused or are likely to cause the overflow.</li> <li>Show the need for outlet improvement by enlarging the system or controlling waters by off-take ditches, additional outlets, etc.</li> </ul>

Drainage Project Type	Who Can File a Petition	Additional Required Contents of the Petition
		<ul> <li>Show outlet improvement will protect adjoining property from overflow.</li> </ul>
Establishment of a Lateral § 103E.225	<ul> <li>At least 26% of the owners of property that the proposed lateral passes over. or</li> <li>By the owners of at least 26% of the area of the property that the proposed lateral passes over.</li> </ul>	<ul> <li>Describe the starting point, general course, and end point of the proposed lateral.</li> <li>Describe the property to be crossed by the lateral, including the names and addresses of the property owners.</li> <li>State why the lateral is necessary.</li> <li>Request that the lateral be constructed and connected with the drainage system.</li> </ul>

## 3.2 Drainage Project Process

Figure 3-1(a. & b.) Process Summary for "Drainage Projects" in Appendix 1. Drainage Proceedings and Procedures Process Charts outline the sequence of steps for "drainage project" proceedings from petition through completion, including the applicable sections of Chapter 103E. Handbook Section 3. DRAINAGE PROJECTS further explains the following "drainage project" requirements and process:

- Details about the sequential steps, considerations and requirements in the process for the different types of "drainage project" proceedings, including links to applicable sections of Chapter 103E and to applicable sections of the **Minnesota Public Drainage Manual**.
- <u>Section 103E.015</u> Considerations Before Drainage Work is Done, Subd. 1 Environmental, land use and multipurpose water management criteria includes nine criteria for consideration that apply to "drainage projects." These criteria and <u>Subd. 2. Determining</u> public utility, benefit, or welfare include required compliance, as applicable, with provisions of the Minnesota Wetland Conservation Act; U.S. Clean Water Act, Section 404, Section 401, and Construction Stormwater Pollution Prevention Plan requirements; U.S. Rivers and Harbors Act, Section 10; and U.S. Farm Bill, Conservation Compliance wetlands provisions.
- Detailed requirements for the Engineer's Preliminary Survey Report, Engineer's Detailed Survey Report, the Viewers' Report and the Property Owners' Report.
- Required advisory reports by the Minnesota Department of Natural Resources (DNR) for all "drainage projects." Advisory review by the Minnesota Board of Water and Soil Resources (BWSR) for "drainage projects" for which a watershed district is the drainage authority.
- The requirement for the drainage authority to receive DNR permission for work in public waters. The DNR published "Public Waters Authority over Work Done in Public Drainage Systems" Feb. 28, 2018 to help clarify DNR authority and responsibilities regarding public waters and Chapter 103E drainage systems, including section III. General Guidance for Public Drainage System Projects. The DNR Area Hydrologist is a point of contact.
- Requirements for scheduling, noticing and conducting hearings.

- Requirements for a benefit-cost test and other criteria at the final hearing upon which to base findings and an order to either dismiss or to construct a "drainage project".
- Construction contracting and financing.
- Construction inspection and partial payments.
- Project acceptance and as-built drawings.
- That costs for "drainage projects" must be apportioned to the benefited property owners in proportion to the monetary benefits for each benefited land unit, as determined by the viewers and approved by the drainage authority (i.e., pro rata based on benefits).

## Section 4. DRAINAGE SYSTEM REPAIRS

The drainage authority is responsible for maintaining and otherwise repairing the drainage system in accordance with Chapter 103E, on behalf of the property owners who pay for the drainage system. The Chapter 103E definition of "repair" involves maintaining the "hydraulic capacity" of the drainage system, as well as its "effectiveness" and "efficiency". There are two primary types of repairs, including "**repairs based on inspection"** and "**petitioned repairs**." Drainage authorities often prefer to receive a petition for a major repair to demonstrate property owner support and to enable appointment of an engineer to investigate and make recommendations in a Repair Report.

Following is summary information about Chapter 103E repair provisions. See the Handbook **Section 4. DRAINAGE SYSTEM REPAIRS** for detailed information.

## 4.1 General Repair Provisions

- If a repair based on inspection or a petitioned repair may affect public waters, the drainage authority must notify the DNR. The DNR published the guidance document "<u>Public Waters</u> <u>Authority over Work Done in Public Drainage Systems</u>" Feb. 28, 2018 to help clarify DNR authority and responsibilities regarding public waters and Chapter 103E drainage systems, including section II. General Guidance for Repairs of Public Drainage Systems. The <u>DNR Area</u> <u>Hydrologist</u> is a point of contact.
- Repairs must comply with any applicable provisions of the Minnesota Wetland Conservation Act; U.S. Clean Water Act Section 404, Section 401, and Construction Stormwater Pollution Prevention Plan requirements; U.S. Rivers and Harbors Act, Section 10; and U.S. Farm Bill, Conservation Compliance wetland provisions. There are exemptions for certain types and scope of repair.
- Chapter 103E repair provisions provide for wetland preservation, restoration or replacement; water quality protection and improvement; and restoration of a conservation practice damaged by a repair.
- Certain repairs are not subject to bidding requirements.
- Repair financing can involve the drainage system repair fund, which has funding limits; borrowing from other drainage system repair funds (with interest); or bonding.
- There are annual repair assessment levy limits.

## 4.2 Apportionment of Repair Costs

The costs of a repair anywhere on a drainage system are apportioned by one of two methods:

- pro rata based on benefits of record for all property benefited by the drainage system (§ 103E.728), or
- alternatively, can be apportioned based on relative runoff and relative sediment delivery from all property contributing runoff to the drainage system (§ 103E.729).

## 4.3 Repairs Based on Inspection

- Drainage authorities are required to appoint a drainage inspector and to specify the appointment period and compensation for the inspector. The inspector can be the county engineer but cannot be a county commissioner.
- The drainage authority also designates drainage systems to be inspected and/or a schedule, considering the inspection frequency and ditch buffer strip inspection requirements in Chapter 103E, drainage inspector input and property owner input, as applicable.
- The drainage inspector must prepare an inspection report to the drainage authority for each drainage system inspected identifying any repair(s) needed, including any ditch buffer strip violations.
- For incremental establishment of ditch buffer strips and/or side inlet controls using § 103E.021, Subd. 6, the drainage authority may appoint an engineer to prepare an engineer's repair report, and damages can be determined by the drainage authority or viewers appointed by the drainage authority. A hearing must be noticed and held.
- The drainage authority can, or may be required to, hold a hearing on repair cost apportionment if the <u>§ 103E.728</u> method is used, and must hold a hearing if the <u>§ 103E.729</u> method is used.

Figure 4-1(a. & b.) Process Summary for "Repairs Based on Inspection" in Appendix 1. Drainage Proceedings and Procedures Process Charts outline the sequence of steps for repairs based on inspection, including the applicable sections of Chapter 103E.

## 4.4 Petitioned Repairs

- An individual or entity (including the drainage authority) interested in or affected by a drainage system may file a repair petition.
- The petition must include a minimum \$10,000 petitioner's bond to pay for the costs of the proceedings until the repair project is ordered, or in case the proceedings are dismissed.
- A petitioned repair requires the appointment of an engineer to examine the drainage system and prepare a repair report.
- A hearing must be noticed and conducted regarding the repair report.
- A repair that involves the need for additional drainage system land rights, or creates new benefits or damages, requires the drainage authority to appoint viewers to prepare a Viewers' Report and the auditor or secretary to subsequently prepare and mail a Property Owners' Report. These reports must be considered at the hearing, together with the engineer's Repair Report.
- The drainage authority can, or may be required to, hold a hearing on repair cost apportionment if the <u>§ 103E.728</u> method is used, and must hold a hearing if the <u>§ 103E.729</u> method is used.

Figure 4-2(a. & b.) Process Summary for "Petitioned Repairs" in Appendix 1. Drainage Proceedings and Procedures Process Charts outline the sequence of steps for petitioned repairs, including the applicable sections of Chapter 103E.

## Section 5. OTHER PROCEEDINGS OR PROCEDURES

**Figure 1** in **Section 1. INTRODUCTION** of this Overview identifies 22 types of "Other Proceedings or Procedures" in Chapter 103E. These proceedings or procedures have varying requirements for petitions and other process, while all require a hearing involving the drainage authority.

## 5.1 Initiated by Notice, Motion or Petition

The following "other proceedings or procedures" can be initiated by petition, or by a motion of the drainage authority and/or the action of the applicable auditor or watershed district secretary to schedule a hearing, as summarized in **Table 5-1. Initiation of Certain "Other Proceedings or Procedures."** Requirements for petitioners and petitions are summarized in **Table 5-2. Petition Requirements for "Other Proceedings or Procedures."** 

Other Proceeding or Procedure	How it's Initiated
§ 103E.075 Obstructing Drainage System.	Drainage authority notice to person or other entity responsible for a drainage system obstruction.
§ 103E.101, Subd. 4a. Reestablishing records.	Drainage authority motion, or petition from any party affected by the drainage system.
§ 103E.245, Subd. 2. Limitation of survey.	Drainage authority determination of need to expand the area to be surveyed and notice of hearing.
§ 103E.351 Redetermining Benefits and Damages.	Drainage authority determination of need for redetermination, and motion; or petition by more than 26% of owners of property benefited or damaged and drainage authority determination of need.
§ 103E.555 Accepting Contract.	Auditor or watershed district secretary notice of hearing after receiving engineer's report on contract completion.
§ 103E.721 Replacement and Hydraulic Capacity of Bridges and Culverts.	Drainage authority and auditor or watershed district secretary notice of hearing after receiving engineer's hydraulic capacity report.
§ 103E.741 Property not Assessed Benefits; Hearing.	Drainage authority and auditor or watershed district secretary notice of hearing after receiving engineer's repair report with map of additional benefited property.
§ 103E.801 Consolidating or Dividing Drainage Systems.	Drainage authority motion after redetermination of benefits and damages, or petition from any party interested in or affected by the drainage system.

Table 5-1. Initiation of Certain "Other Proceedings or Procedu	res"
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## 5.2 Initiated by Petition Only

The following "other proceedings or procedures" can only be initiated by petition. Requirements for petitioners and petitions are summarized in **Table 5-2**. **Petition Requirements for "Other Proceedings or Procedures"** below.

- § 103E.227 Impounding, Rerouting, and Diverting Drainage System Waters.
- § 103E.231 Dismissing or Delaying Proceedings; Petitioners.
- § 103E.345 Apportioning Cost for Joint County Drainage Systems.
- § 103E.401 Use of Drainage System as Outlet.
- § 103E.411 Drainage System as Outlet for Municipality.
- § 103E.511 Contract Not Awarded; Excessive Bids or Costs.
- § 103E.535 Partial Payment of Retained Contract Amount.
- § 103E.545 Reducing Contractor's Bond
- § 103E.631 Apportioning Liens.
- § 103E.711 Cost Apportionment for Joint County Drainage Systems.
- § 103E.805 Removing Property from Drainage System.
- § 103E.806 Partial Abandonment of Drainage System.
- § 103E.811 Abandoning Drainage System.
- § 103E.812 Transfer of All or Part of Drainage System.

#### Table 5-2. Petition Requirements for "Other Proceedings or Procedures"

Proceeding or Procedure	Who Can File a Petition	Other Petition Requirements
Reestablishing Records §103E.101, Subd. 4a.	<ul> <li>Any party affected by the drainage system.</li> </ul>	<ul> <li>Request reestablishment of drainage system records.</li> </ul>
Impounding, Rerouting, and Diverting Drainage System Waters § 103E.227	<ul> <li>A person, public or municipal corporation, governmental subdivision, the state or a state agency or department, the commissioner of natural resources, the U.S. or any of its agencies.</li> </ul>	<ul> <li>Identify project location.</li> <li>Include concept plan and map of areas likely affected.</li> <li>Identify sources of funding &amp; rationale for any drainage system funds requested.</li> <li>\$10,000 bond required unless the petition is filed by a state agency/dept., U.S. agency, SWCD, WD or municipality.</li> </ul>

Proceeding or Procedure	Who Can File a Petition	Other Petition Requirements
Dismissing or Delaying Proceedings; Petitioners. § 103E.231	<ul> <li>For dismissal, a majority of petitioners who own at least 60% of the area owned by all petitioners, as defined in the original project petition.</li> <li>For delay, a majority of the petitioners on the original project petition.</li> </ul>	<ul> <li>Request dismissal or delay of a drainage project proceeding.</li> </ul>
Apportioning Cost for Joint County Drainage Systems. § 103E.345	<ul> <li>An auditor of a county affected by a joint county drainage project.</li> </ul>	<ul> <li>Request drainage authority determination of costs to be paid by affected counties.</li> </ul>
Redetermining Benefits and Damages § 103E.351	<ul> <li>More than 26% of owners of property benefited or damaged by the system. or</li> <li>Owners of more than 26% of the property benefited or damaged by system.</li> </ul>	<ul> <li>Request redetermination of drainage system benefits and damages.</li> </ul>
Use of Drainage System as Outlet § 103E.401 Drainage System as Outlet for Municipality § 103E.411	<ul> <li>Any person or drainage system with property not assessed for benefits by an established drainage system seeking authorization to use the established drainage system as an outlet. (§ 103E.401)</li> <li>A municipality seeking authorization to use a drainage system as an outlet. (§ 103E.411)</li> </ul>	<ul> <li>For petition by a municipality:         <ul> <li>Show necessity for use of the system as an outlet and that the use will be of public benefit &amp; utility &amp; promote public health.</li> <li>Include a plat showing the locations of the drainage system and municipal system.</li> <li>Include specifications showing connection plan.</li> </ul> </li> </ul>
Contract Not Awarded; Excessive Bids or Costs. § 103E.511	<ul> <li>A person interested in the applicable drainage project.</li> </ul>	<ul> <li>Petitioner's determination of mistake in engineer's cost estimate or changes in plans &amp; specs to reduce costs without impairing project, or</li> <li>Define inflation effects, if bids 30% over engr. est., or if unavoidable delay in construction completion.</li> </ul>

## OVERVIEW: UNDERSTANDING MINNESOTA PUBLIC DRAINAGE LAW

Proceeding or Procedure	Who Can File a Petition	<b>Other Petition Requirements</b>
Partial Payment of Retained Contract Amount § 103E.535	<ul> <li>Contractor for a contract exceeding \$50,000 that is 50% or more complete and not in default.</li> </ul>	<ul> <li>Request payment for 40% of retained value.</li> </ul>
Apportioning Liens § 103E.631	<ul> <li>A person with interest in property having drainage lien, to apportion lien to portions of the tract.</li> </ul>	<ul> <li>Principal and interest payments must not be in default.</li> </ul>
Cost Apportionment for Joint County Drainage Systems. § 103E.711	<ul> <li>The board of a county affected by a joint county not paying its share of a county's annual repair cost statement.</li> </ul>	<ul> <li>Show the nature and necessity of repairs made and costs.</li> <li>Request the drainage authority to apportion and order costs per county.</li> </ul>
Consolidating or Dividing Drainage Systems § 103E.801	<ul> <li>Any party interested in, or affected by, the drainage system.</li> </ul>	<ul> <li>Request consolidation or division of a drainage system.</li> </ul>
Removing Property from Drainage System § 103E.805	<ul> <li>An owner of property in the benefited area of the drainage system.</li> </ul>	• Request removal of property from a drainage system.
Partial Abandonment of Drainage System § 103E.806	<ul> <li>An owner of property previously determined to benefit from the drainage system.</li> </ul>	• Define the part of drainage system that is not of public benefit and utility and does not serve a substantial useful purpose to property remaining in the system.
Abandoning Drainage System § 103E.811	<ul> <li>At least 51% of property owners benefited and assessed for the drainage system, or</li> <li>The owners of at least 51% of the property benefited and assessed for the drainage system.</li> <li>Note: These can include a county as owner of tax- forfeited, assessed property.</li> </ul>	<ul> <li>Designate the drainage system proposed to be abandoned and show that the drainage system is not of public benefit and utility:         <ul> <li>because the agricultural property that used the drainage system has been generally abandoned, or</li> <li>because the drainage system has ceased to function, and restoration is</li> </ul> </li> </ul>

#### OVERVIEW: UNDERSTANDING MINNESOTA PUBLIC DRAINAGE LAW

Proceeding or Procedure	Who Can File a Petition		Other Petition Requirements
Transfer of All or Part of Drainage System § 103E.812	<ul> <li>For a drainage system outside the 7-County Metro and outside city boundaries:</li> <li>At least 51% of owners of property assessed for the drainage system or portion to be transferred. Or</li> <li>Owners of not less than 51% of property assessed for the drainage system or portion to be transferred. and (required)</li> <li>The proposed transferee water mgmt. authority.</li> <li>For a drainage system wholly or partially within city boundaries:</li> <li>The city AND transferee water mgmt. authority.</li> <li>For a drainage system in 7- County Metro and wholly or partially within a water mgmt. authority:</li> <li>The water mgmt. authority:</li> </ul>	•	Designate the drainage system, or portion thereof, proposed to be transferred & show transfer is necessary for orderly water management, including water quality; Indicate the impact, if any, of the transfer on properties utilizing the drainage system for an outlet or otherwise benefiting from the existence of the drainage system; and Include an engineering report prepared by the transferee water management authority on the nature and extent of the drainage easement and the as constructed or subsequently improved depth grade, and hydraulic capacity of the drainage system.

## 5.3 Where to File a Petition

 Table 5-3. Where to File a Petition for "Other Proceedings or Procedures" defines the required entity or individual(s) with whom (i.e., where) a petition must be filed.

### Table 5-3. Where to File a Petition for "Other Proceedings or Procedures"

Petitions must be filed with the applicable county auditor or watershed district secretary representative of the county, joint county, or watershed district drainage authority, **with the following additions or exceptions:** 

A petition for **Impounding, Rerouting and Diverting Drainage System Waters** of a joint county drainage system, must also be filed with the auditor of each of the other counties participating in the joint county drainage authority. (§ 103E.227 **Impounding, Rerouting, and Diverting Drainage System Waters.**, Subdivision 1. Petition.)

A petition for **Abandoning a Drainage System** signed by a county as the owner of taxforfeited land in the assessed area of the drainage system, must be made to the district court of the county and filed with the administrator of the court. If property assessed for benefits is in 2 or more counties, the petition must also be filed with the applicable county auditor. (§ 103E.811 Abandoning Drainage System., Subd. 4. Filing petition; jurisdiction.)

For the Transfer of All or Part of a Drainage System:

- If the drainage system is administered by a county or joint county drainage authority and if all property assessed for benefits in the drainage system is in one county, the petition must be filed with the auditor unless the petition is signed by the board, in which case the petition must be made to the district court for the county where the drainage system is located, and filed with the court administrator. If the board, acting as the drainage authority, is also the petitioning water management authority, the petition must be made to the district court of the county where the drainage system is located and filed with the court administrator.
- If property assessed for benefits is in two or more counties, the petition must be filed with the auditor or court administrator of either (1) the county where the portion of the drainage system sought to be transferred exists; (2) the county not petitioning for the transfer; or (3) the county where the majority of the drainage system sought to be transferred exists.
- If the drainage system is administered by the board of managers of a watershed district, the petition must be filed with the secretary of the watershed district. If the watershed district is also the petitioning water management authority, the petition must be filed with the court administrator consistent with the criteria in paragraph (a), clauses (1) to (3).

(§ 103E.812 Transfer of All or Part of Drainage System., Subd. 4. Filing petition; jurisdiction.)

**Figure 5-1. Process Summary for "Other Proceedings or Procedures"** in **Appendix 1. Drainage Proceedings and Procedures Process Charts** outlines the basic sequence of steps for "other proceedings or procedures" including the applicable sections of Chapter 103E.

**Section 5. OTHER PROCEEDINGS OR PROCEDURES** of the Handbook further explains each of the 22 "other proceedings or procedures" including:

- the purpose(s) for each proceeding or procedure,
- considerations, requirements and associated process steps involved in using the proceeding or procedure,
- links to applicable sections of Chapter 103E and to applicable sections of the <u>Minnesota</u> <u>Public Drainage Manual</u> for additional reference.

Section 5 of the Handbook also provides discussion of, and links to, Minnesota Statutes <u>Chapter</u> <u>103D</u>. <u>Watershed Districts.</u>, § <u>103D.625</u> <u>Drainage Systems in Watershed District</u>, which enables transfer of drainage authority from a county board or joint county board to a watershed district board. This can be initiated by a county or joint county drainage authority, a petition from an interested person, or the watershed district.

## Section 6. VIEWING

Viewing is the determination of benefited properties, monetary benefits, and monetary damages of a drainage system by a team of three "viewers" who are appointed by the drainage authority.

## 6.1 Proceedings or Procedures Requiring Viewers

There are nine types of drainage proceedings or procedures that require the appointment or involvement of viewers to determine benefits and/or damages:

## **Drainage Projects**

- 1) § 103E.212 New Drainage System Projects.
- 2) § 103E.215 Improving Drainage Systems.
- 3) § 103E.221 Improving Outlets.
- 4) § 103E.225 Laterals.

All "drainage projects" require appointment of viewers to determine benefits and damages. These projects are subject to a benefit-cost test (benefits determined by viewers must be greater than costs of the project) and cost apportionment is based pro rata on benefits determined.

## **Specific Repairs and Other Proceedings or Procedures**

- 5) § 103E.715 Repair by Petition., Subd. 6. Repair by resloping ditches, incorporating multistage ditch cross-section, leveling spoil banks, installing erosion control, or removing trees. (if the repair involves new benefits and/or damages)
- 6) § 103E.351 Redetermining Benefits and Damages.
- 7) § 103E.741 Property not Assessed Benefits.; Hearing. (for property found to be receiving benefits in a repair proceeding, but not previously assessed for benefits)
- 8) § 103E.811 Abandoning Drainage System. (viewer involved, if necessary)
- 9) § 103E.812 Transfer of All or Part of Drainage System. (viewer involved, if necessary)

## 6.2 Proceedings or Procedures Not Requiring Viewers

There are three proceedings or procedures in Chapter 103E for which the drainage authority may determine benefits or damages on its own, without appointing viewers:

- For damage determinations in accordance with § 103E.021 Planting Ditches with Perennial Vegetation., Subd. 6. Incremental establishment; vegetated buffer strips and side inlet controls., paragraph (c), if the drainage authority so chooses.
- For an outlet petition, in accordance with § 103E.401 Use of Drainage System as Outlet.
- For an outlet petition in accordance with § 103E.411 Drainage System as Outlet for Municipality.

However, drainage authorities may appoint viewers to determine damages for § 103E.021, Subd. 6, and may consult viewers for § 103E.401, § 103E.411 and § 103E.631 **Apportioning Liens**.

Benefits of record can be used as a basis for pro rata "repair" cost apportionment and may be used as a basis to apportion costs pro rata for "other proceedings or procedures" as applicable.

## 6.3 Appointment and Qualifications of Viewers (§ 103E.305)

Viewers must be residents of Minnesota who are disinterested in the drainage proceeding or procedure and qualified to assess benefits and damages. The drainage authority may establish qualifications for viewers. When viewers are appointed, it must be as a team of three (3) viewers, except for § 103E.812, which only requires one viewer to serve on a technical panel, if necessary. The types of knowledge and experience needed by viewers includes:

- soils maps and data, including the USDA Web Soil Survey
- agriculture and productivity of land
- land values and effects of drainage on land values
- availability and interpretation of pertinent aerial photography, including historical
- topography and runoff
- engineering and survey data related to the effects of surface and subsurface drainage
- the value of land rights acquired or otherwise diminished by a drainage system or associated work
- property parcel, tract and government lot boundaries and ownership
- geographic information systems (GIS) and other pertinent data management tools
- mass appraisal methods.

Viewers should be able to present their analyses and determinations in an orderly and understandable manner at hearings. Lead viewers may also be required to testify in court regarding an appeal of benefits and/or damages.

## 6.4 Determination of Drainage Benefits and Damages (§ 103E.315)

Determination of **benefits** is based on:

- 1) an increase in the current market value of property as a result of constructing the project
- 2) an increase in the potential for agricultural production as a result of constructing the project
- 3) an increased value of the property as a result of a potential different land use
- 4) use of a drainage project as an outlet for an existing drainage system
- 5) use of a drainage project or system as an outlet for property within its watershed responsible for increased sedimentation in downstream areas of the watershed
- 6) use of a drainage project or system as an outlet for property responsible for increased maintenance or hydraulic capacity due to natural drainage alteration that accelerates drainage from the property, or
- 7) increased drainage within the whole watershed of a drainage project that causes a need for increased drainage capacity.

Determination of **damages** is based on:

- the fair market value of the property required for the channel of an open ditch and the permanent strip of perennial vegetation under section 103E.021 (perpetual property rights acquired via easement)
- 2) the diminished value of a farm due to severing a field by an open ditch
- 3) loss of crop production during drainage project construction

- 4) the diminished productivity or land value from increased overflow
- 5) costs to restore a perennial vegetative cover or structural practice existing under a federal or state conservation program adjacent to the permanent drainage system right-of-way and damaged by the drainage project.

## 6.5 Viewers' Report (<u>§ 103E.321</u>)

The Viewers' Report documents the facts and determinations of the team of viewers regarding the benefited properties, benefits and damages of a proposed drainage project, existing drainage system (when redetermining benefits and damages), or other applicable proceeding or procedure. The Viewers' Report is a very important document, because the benefits determined are used:

- in a "drainage project" proceeding for the required benefit-cost test and as a basis for pro rata apportionment of project costs to benefited property owners,
- as a benefits-of-record-based method for pro rata apportionment of "repair" costs,
- in applicable "other proceedings or procedures" for pro rata apportionment of the associated costs, based on the benefits of record.

The Viewers' Report also provides the information necessary to develop the Property Owners' Report. Damages determined in the Viewers' Report are reflected in the Property Owners' Report to define the net amount assessed to or paid to benefited or damaged property owners. **Section 6. VIEWING** of the Handbook presents specific requirements for the Viewers' Report and links to additional information in the <u>Minnesota Public Drainage Manual</u>.

## 6.6 Property Owners' Report (§ 103E.323)

The Property Owners' Report is prepared by the applicable county auditor or watershed district secretary for each of the affected property owners and the drainage authority. It is based on the Viewers' Report, associated viewer input, and other county-based property information. The Property Owners' Report contains information specific to each property owner benefited and/or damaged by the proposed drainage project, certain repairs, or other applicable proceeding or procedure. **Section 6. VIEWING** of the Handbook presents the specific requirements for the Property Owners' Report and links to additional information in the <u>Minnesota Public Drainage</u> <u>Manual</u>.

## **Section 7. APPEALS**

The roles and responsibilities of the drainage authority under Chapter 103E are administrative. The drainage authority:

- receives reports, consultations, and other evidence, including testimony at hearings,
- considers evidence, including applicable laws and rules,
- draws conclusions,
- makes findings and orders in a manner that is quasi-judicial and binding (similar to the judicial roles of courts).

Chapter 103E provides for appeal to the applicable district court from specific final drainage authority orders.

• A party with standing to appeal is a person or entity affected by the drainage authority order.

• An appeal must be properly filed within 30 days after the associated drainage authority order.

## 7.1 Appeals of Benefits, Damages, Fees or § 103E.015 Compliance (§ 103E.091)

A party may appeal to the district court from a recorded order of a drainage authority made in a drainage proceeding that determines:

- 1) the amount of benefits,
- 2) the amount of damages,
- 3) fees or expenses allowed, or
- 4) whether the environmental, land use, and multipurpose water management requirements and criteria of section <u>103E.015</u>, <u>subdivision 1</u> are met.

**Section 7. APPEALS** of the Handbook includes the applicable provisions and requirements of  $\frac{9}{103E.091}$  Appeals regarding filing a notice of appeal, trial provisions and effect of the final court determination.

• This appeal provision requires a <u>trial by jury</u>.

## 7.2 Appeal of Orders Dismissing or Establishing Drainage Systems (§ 103E.095)

A party may appeal an order made by the drainage authority that dismisses drainage proceedings or establishes or refuses to establish a drainage project to the district court for the county where the drainage proceedings are pending. **Section 7. APPEALS** of the Handbook includes the applicable provisions and requirements of § 103E.095 **Appeals from Orders Dismissing or Establishing Drainage Systems.** This includes filing a notice of appeal, trial provisions, order of determination if there are multiple appeals, requirement for notice of an order if the district court establishes a drainage project, and appeal of a district court order.

• This Chapter 103E appeal provision requires a trial without a jury.

This section of Chapter 103E is also specified for an appeal of a repair cost apportionment under § 103E.729 Apportioning Repair Costs; Alternative Option., Subd. 7. Appeals.

## Section 8. BEST MANAGEMENT PRACTICES

For this Overview and the Handbook, a Best Management Practice (BMP) is a structural or nonstructural practice that helps achieve multipurpose drainage water management. The context is Chapter 103E public drainage systems and the contributing watershed of a drainage system. The five multiple purposes identified for consideration in § 103E.015 Considerations Before Drainage Work Is Done., Subdivision 1, Environmental, land use, and multipurpose water management criteria., clause (2) for "drainage projects" are:

- 1) conserve, allocate, and use drainage waters for agriculture, stream flow augmentation, or other beneficial uses
- 2) reduce downstream peak flows and flooding
- 3) provide adequate drainage system capacity
- 4) reduce erosion and sedimentation
- 5) protect or improve water quality

The § 103E.015, Subdivision 1 considerations criteria are not required for "repairs" but provide multipurpose context for all drainage system BMPs for "drainage projects" and "repairs".

Drainage system BMPs can be categorized as "on-system" and "off-system" practices. Because Chapter 103E drainage law and systems have a focus on drainage, the economic feasibility and use of some of these multipurpose BMPs can be dependent on achieving multiple purposes and benefits funded in part by external sources. See <u>MPDM Chapter 5. Public Drainage System Best</u> <u>Management Practices (BMPs)</u> for additional information.

## 8.1 On-System BMPs

This type of BMP is located in, along, or adjacent to a drainage system and benefits the drainage system and other water management purposes by improving open ditch stability, reducing erosion and sedimentation, reducing peak flows and downstream flooding, protecting or improving water quality, and protecting or improving aquatic or terrestrial habitat. The drainage engineer typically designs drainage systems with the following objectives and on-system BMPs, including:

- ditch alignment, profile and cross-section design for stability
- ditch grade control structures where necessary to maintain a stable ditch bottom, dissipate energy of flow and protect ditch side slopes
- erosion control at culverts, bridges, the outside of sharp bends in ditch alignment, outlets of side inlets, and at tile inlets and outlets
- construction erosion control, including construction stormwater pollution prevention practices, timing and sequence of construction, and rapid establishment of effective, permanent vegetation for erosion control.

Public drainage ditch buffer strips of perennial vegetation are required by Chapter 103E when viewers are appointed and required of property owners by § 103F.48 Riparian Protection and Water Quality Practices (Minnesota Buffer Law). Ditch buffer strips provide a tillage, fertilizer and pesticide setback from an open ditch, trap waterborne and windborne sediment that may pass over the buffer strip, protect water quality, and provide access for ditch inspection and maintenance.

Following are additional on-system BMPs.

- Enhanced side inlet controls, particularly when designed for short-term detention to prevent erosion, meter runoff into the ditch, and trap sediment on the field adjacent to a ditch at relatively low cost.
- Alternative tile inlets, such as perforated risers and many other types of commercial inlets, as well as gravel inlets, that meter flow and reduce sediment and crop residue from entering the tile.
- **Restored, or constructed wetland** on-system that can temporarily detain runoff, reduce downstream peak flows and demand on the drainage system hydraulic capacity, improve water quality (primarily via denitrification) and provide aquatic and terrestrial wildlife habitat. This BMP is typically sited where a wetland had been drained but not sufficiently for productive farming.
- **Culvert sizing** can utilize very short-term (e.g., 24 to 36 hours) detention storage upstream from ditch crossings. This practice can reduce or avoid flooding of downstream properties and road crossings by drainage from upstream properties and, thereby, help balance the benefits and risks of the drainage system amongst all affected properties. Because most agricultural crops are not harmed by shallow inundation for 24 to 48 hours, culvert-sizing at ditch crossings utilizes an

opportunity to reduce peak flows that often exists for drainage ditch systems. This BMP typically works best for smaller drainage areas that have intermittent flow, such as in the headwaters areas of drainage systems. Proper consideration must be given to road category and risks of overtopping, erosion control, and the need for fish passage where there is perennial flow.

- **Two-stage ditch** cross section is an important BMP where a ditch is a channelized alluvial stream or ditch with perennial flow and a substantial sediment load. In these situations, the ditch may have formed a 2-stage channel with substantial aquatic habitat. Another application is for a ditch with unstable side slopes due to seepage and/or soil with low shear strength. A two-stage ditch can help stabilize a ditch and significantly reduce future maintenance. It can be designed to provide the same hydraulic capacity as a single stage trapezoidal ditch, while protecting or improving aquatic habitat and water quality.
- **Saturated buffers** along a drainage ditch using controlled subsurface drainage can improve water quality primarily by reducing nitrates from subsurface tile drainage into an open ditch.
- **Bioreactors** are used primarily on tile drainage systems to reduce nitrates in tile outflows, although multi-nutrient reduction bioreactors are being researched for tiles and ditches.

# 8.2 Off-System BMPs

These include practices located within the watershed of a drainage system that benefit the drainage system and other water management purposes in similar ways as on-system BMPs. Reduction of hydraulic capacity demand on a drainage system and reduced sediment clean-out needs of a drainage ditch are key purposes and benefits for a drainage system. Examples include:

- Grassed waterway in fields to prevent gully erosion and trap sediment.
- Water and sediment control basin, or grade stabilization structure to intercept concentrated runoff slope length, trap sediment, temporarily detain and meter runoff, and prevent gully erosion and associated sediment delivery to a drainage system.
- **Restored, or constructed wetland** in the watershed of a drainage system for the same purposes as on-system restored or constructed wetlands.
- **Conservation tillage, no-till and/or cover crops** to increase infiltration, soil organic matter and soil profile water holding capacity, increase evapotranspiration, reduce and slow runoff, and reduce erosion and sediment delivery to a drainage system.

# 8.3 Comprehensive Local Water Planning and Implementation

Minnesota's comprehensive local water planning and implementation framework, including One Watershed, One Plan, is about multipurpose water management. This involves multipurpose drainage management where there are Chapter 103E and private drainage systems. This planning and implementation framework includes coordination of public and private water management purposes, as well as access to state and federal funding for eligible conservation practices that are compatible with multipurpose drainage management. Watershed-based funding for implementation enhances the opportunities to more efficiently coordinate public programs and Chapter 103E drainage system funds for multipurpose drainage projects and repairs. However, note that public conservation and water quality programs are focused on purposes and benefits other than the drainage purpose and benefits.

# 8.4 Applicable Multipurpose Provisions in Chapter 103E

• § 103E.011, Subd. 5. Use of external sources of funding.

Enables use of external funding for water quality improvements, wetland restoration or protection, or flood control purposes.

## • § 103E.015 Considerations before drainage work is done.

"Drainage projects" (establishment, improvement, improvement of an outlet, laterals) are required to consider nine criteria, including alternative measures to achieve multipurpose water management. This includes alternative measures identified in applicable state-approved and locally-adopted water management plans.

• § 103E.015, Subd. 1a. Investigating use of external sources of funding and technical assistance. Requires investigation of applicable external sources of funding for multipurpose water management, including early coordination with local water planning authorities. Applies to "drainage projects" and petitioned repairs, all of which require the appointment of an engineer to conduct project investigations, prepare plans, and submit a report to the drainage authority.

- § 103E.021, Subd. 6. Incremental establishment; vegetated buffer strips and side inlet controls. This permissive authority enables these multipurpose practices to be done as a repair, where determined to be needed by the drainage authority.
- § 103E.227 Impounding, rerouting, and diverting drainage system waters.

Enables drainage system cooperation with programs and participating landowners, including use of external sources of funding for impoundments, wetland restoration, rerouting or diverting a drainage system.

• § 103E.701, Subd. 6. Wetland restoration & replacement; water quality protection and improvement.

Enables wetland restoration and water quality practices to be part of a drainage system repair.

• § 103E.715, Subd. 6. Repair by resloping ditches, incorporating multistage ditch cross-section, leveling spoil banks, installing erosion control, or removing trees. Enables erosion control measures and a 2-stage channel to be part of a petitioned repair.

# 8.5 Evaluating and Selecting BMPs

The process for identifying and selecting appropriate BMPs includes several steps, as outlined in the MPDM, Chapter 5. Public Drainage System Best Management Practices (BMPs).

- Observe and identify potential problems and opportunities. Physical problems along a public drainage system might include channel erosion, failed side slopes, poor water quality, etc. Opportunities can include sources of external funding, e.g., through a local water planning organization or state or federal agency.
- 2. Determine the cause of the problem. Causes of observed problems might include open tile inlets, excessive use of nitrogen fertilizers or manure, altered hydrology, etc.
- 3. Select an appropriate solution. A <u>matrix</u> in the MPDM lists BMPs that address specific problems, symptoms, causes and solutions.

Early coordination is essential for efficient selection of BMPs. It's important for drainage inspectors and engineers to have the opportunity to identify and discuss problems/opportunities with affected landowners, potential watershed partners and the drainage authority. <u>Section 103E.043 Informal</u> <u>Meetings</u> enables a good way to coordinate and to identify partners and the potential for use of external sources of funding for eligible multipurpose objectives and BMPs.

# **Appendix 1. Drainage Proceedings and Procedures Process Charts**

Figure 3-1a. Process Summary for "Drainage Projects"

## **Informal Meetings**

A Drainage Authority (DA) may hold informal meetings in addition to the required Chapter 103E meetings or hearings "to inform persons affected by the drainage system about the drainage proceedings and provide a forum for informal discussions". These meetings can have substantial value when used for early coordination and consideration of projects before a drainage project is petitioned.

### §103E.043

Petition written and required signatures of eligible Petitioners obtained §103E.202 - §103E.225 Petition & Bond filed with proper DA county Auditor or watershed district Secretary §103E.202

Drainage Authority Attorney reviews Petition and Bond §103E.238

Drainage Authority appoints Engineer and orders Preliminary Survey and Report; Engineer submits oath and bond §103E.241 If Petition and Bond do not meet requirements, referred back to Petitioners; if Petition and Bond meet requirements, referred to Drainage Authority §103E.238

Engineer's Preliminary Survey Report prepared and filed; and sent to DNR; (and to BWSR if DA is a WD) §103E.245; §103E.251; §103D.711 Hearing date set and notice mailed to appropriate parties \$103E.261

DNR and BWSR Advisory Report(s) prepared and filed with Drainage Authority §103E.255; §103D.711

<sup>1</sup> If the Petition is not adequate, the Hearing is adjourned, and Petitioners may correct and resubmit Petition §103E.261, Subd. 3(b)

<sup>2</sup> Proceedings are dismissed if:

- Adequate Petition not resubmitted
- Outlet is not adequate
- Project not of public benefit or utility
- Adverse environmental impacts greater than public benefit and utility
- Project is not feasible §103E.261, Subd. 4, Subd. 5

Drainage Authority and key advisor actions

Actions of others

Other pertinent information

## **Preliminary Hearing**

 Drainage Authority examines petition and makes findings on sufficiency<sup>1</sup>

- Engineer's Preliminary Survey Report presented & considered;
- Advisory Report(s) read and considered

Testimony by interested parties
presented and considered

- §103E.261 and §103E.015 requirements considered <sup>2</sup>
- equirements considered

 If requirements met and project is feasible, Viewers appointed and Engineer ordered to prepare Detailed Survey and Report

 Drainage Authority makes findings and order, including any changes to drainage project plans

§103E.261; §103E.015; §103E.265; §103E.305

# Figure 3-1b. Process Summary for "Drainage Projects" (continued)

## Engineer's Detailed Survey Report prepared and filed with Auditor/Secretary

Viewers' Report prepared and filed with Auditor/Secretary §103E.311 - §103E.321

§103E.285; §103E.291

DNR prepares and files Final Advisory Report with Auditor/Secretary §103E.301

Auditor/Secretary prepares and distributes Property Owners Report §103E.261

Drainage Project proceedings dismissed, if: 3

- 1. Project benefits are less than total costs
- 2. Project not of public benefit and utility
- 3. Project not practicable considering §103E.015 criteria

&103E,341, Subd, 1

Drainage Project established , if: <sup>3</sup>

- 1. Reports and proceedings completed
- 2. Reports are complete and correct 3. Benefits and damages properly determined
- 4. Benefits greater than total costs
- 5. Project of public untility and benefit
- 6. Project is practicable

§103E.341, Subd. 2

 Construction plans, specifications, contract and bond prepared
 Invitation for bids published

Notice of awarding meeting published
 Bids and bonds reviewed, contractor selected and contract awarded

§103E.501; §103E.505; §103E.511

## <sup>3</sup> Potential for Appeal

- A Final Order for benefits, damages, fees or expenses allowed, or compliance with §103E.015, Subdivision 1 criteria, can be appealed to Auditor/Secretary within 30 days, with a district court trial by jury, per §103E.091.
- A Final Order to dismiss drainage proceedings, establish or refuse to establish a drainage project can be appealed to Auditor/Secretary within 30 days, with a district court trial without a jury, per §103E.095.

Hearing date set and notice published, posted and mailed to appropriate parties §103E.325

## **Final Hearing**

Petition reviewed

- Engineer's Detailed Survey
   Report presented and considered
- Viewers' Report presented and considered
- DNR Final Advisory Report read and considered
- Testimony by interested parties
  presented and considered
- Drainage Authority can amend Engineer's or Viewers' Reports, or resubmit to them for changes
- Hearing can be adjourned and reconvened, as necessary
- Drainage Authority makes Final Order to dismiss the proceedings, or to establish the project

§103E.335; §103E.341

 Project financing determined
 Damages paid and liens assessed
 Construction: engineer inspection, any changes, partial payments §103E.601 - .661; §103E.515 - .551

- Engineer conducts final inspection; prepares and submits report to DA
   Notice of hearing published or mailed; hearing conducted; project accepted
   Final payment to contractor
- Final costs apportioned and assessed
- · As-built records prepared and filed
  - §103E.555; §103E.601 §103E.655

# Figure 4-1a. Process Summary for "Repairs Based on Inspection"

## **Informal Meetings**

A Drainage Authority (DA) may hold informal meetings in addition to the required Chapter 103E meetings or hearings "to inform persons affected by the drainage system about the drainage proceedings and provide a forum for informal discussions". These meetings can have substantial value when used for early coordination of drainage system(s) inspection and repair.

§103E.043

Drainage Authority appoints Drainage Inspector; Can be the county engineer, but not a county commissioner; DA defines appointment period & compensation §103E.065 Drainage Authority designates drainage systems to be inspected, considering frequency and buffer strip requirements, Drainage Inspector input and property owner input, as applicable §103E.705, Subdivision 1 and Subd. 2

If Inspection Report identifies repair needs, including ditch buffer strips, side inlets, or violation(s), DA may approve the report and order repair(s), and/or must enforce buffer strips §103E.701; §103E.705, Subd. 3 - Subd. 7; §103E.021, Subd. 2 - Subd. 5 Drainage Inspector conducts drainage system inspection and provides written Drainage Inspection Report, including estimated costs, to DA to be considered at its next meeting §103E.705, Subd. 3

If §103E.021, Subd. 6 is used, DA may appoint engineer & viewers; must notice & hold hearing §103E.021, Subd. 6 If the repair(s) may affect public waters, Drainage Authority must notify DNR §103E.701, Subd. 2 Repair financing determined \$103E.705, Subd. 6; \$103E.725; \$103E.731; \$103E.735

Drainage Authority selects repair cost apportionment method of either §103E.728 or §103E.729 Repair is implemented, inspected, accepted and documented Contractor hired considering hired labor and bidding requirements §103E.705, Subd. 5 -Subd. 7

Continued

Other pertinent information

Drainage Authority and key advisor actions

Figure 4-1b. Process Summary for "Repairs Based on Inspection" (continued)

If use §103E.728 and benefits of record to apportion repair costs pro rata, DA <u>may</u> notice and hold a hearing before levying assessments, unless provisions of §103E.728, Subd. 2 or Subd. 3 are used, in which case DA <u>must</u> notice and hold a hearing §103E.728, Subd. 1 - Subd. 3

If a hearing is held per §103E.728, the DA: • presents repair costs apportioned pro rata based on benefits of record, and per §103E.728, Subd. 2 and/or Subd. 3, at its discretion; • hears and considers testimony

§103E.728, Subd. 1 - Subd. 3

If use §103E.729 option, DA appoints qualified person(s) to evaluate relative runoff and relative sediment delivery from contributing property and to prepare a Repair Cost Apportionment Report §103E.729, Subd. 2 When Repair Cost Apportionment Report is filed with DA, the DA and Auditor or Secretary schedule a hearing and give notice via mail to affected property owners §103E.729, Subd. 3

At hearing held per §103E.729, the DA: • reviews repair costs apportioned based on relative runoff and relative sediment delivery from contributing property;

hears and considers testimony;

 may amend report, or resubmit to preparer(s) and reconsider amended report

§103E.729, Subd. 3

## <sup>1</sup> Potential for Appeal

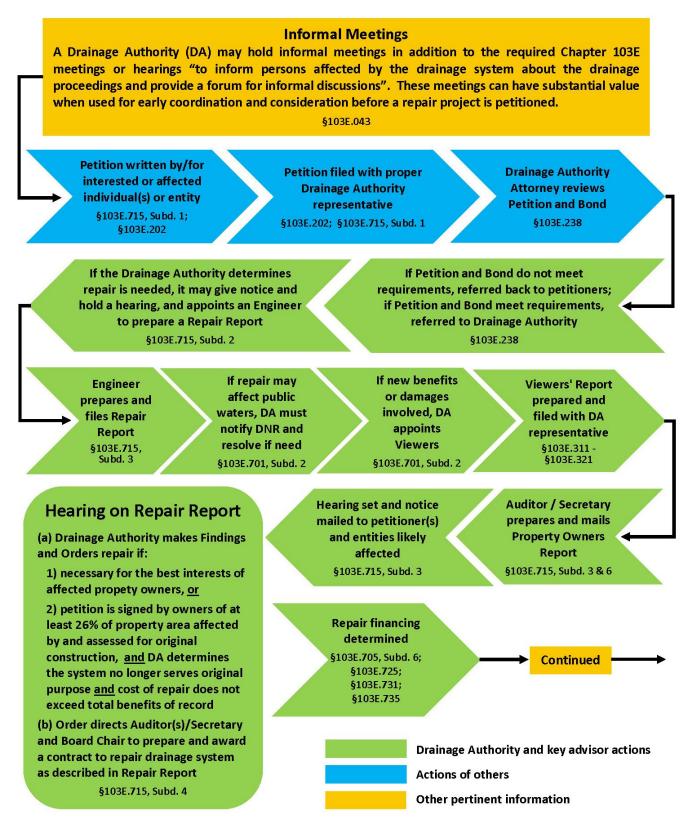
An order for repair cost apportionment using the relative runoff and sediment delivery option in §103E.729 can be appealed to the Auditor/Secretary within 30 days, with a district court trial without a jury, in accordance with §103E.729, Subd. 7 and §103E.095. Drainage Authority makes findings and orders repair cost apportionment in accordance with §103E.728 or §103E.729<sup>1</sup>

§103E.728; 103E.729, Subd. 4



Drainage Authority and key advisor actions Other pertinent information

# Figure 4-2a. Process Summary for "Petitioned Repairs"



## Figure 4-2b. Process Summary for "Petitioned Repairs" (continued)

Contractor hired considering hired labor provisions and bidding requirements §103E.705, Subd. 5 -Subd. 7

Repair implemented, inspected, accepted and documented Drainage Authority selects repair cost apportionment method; using either §103E.728 or §103E.729

If a hearing is held per §103E.728, the DA: • presents repair costs apportioned pro rata based on benefits of record, and per §103E.728, Subd. 2 and/or Subd. 3, at its discretion; • hears and considers testimony §103E.728, Subd. 1 - Subd. 3 If use §103E.728 and benefits of record to apportion repair costs pro rata, DA <u>may</u> notice and hold a hearing before levying assessments, unless provisions of §103E.728, Subd. 2 or Subd. 3 are used, in which case DA <u>must</u> notice and hold a hearing §103E.728, Subd. 1 - Subd. 3

When Repair Cost Apportionment Report is filed, the DA and Auditor or Secretary schedule a hearing and give notice via mail to affected property owners \$103E.729, Subd. 3 If use §103E.729 option, DA appoints qualified person(s) to evaluate relative runoff and relative sediment delivery from contributing property and to prepare a Repair Cost Apportionment Report §103E.729, Subd. 2

At hearing held per §103E.729, the DA: • reviews repair costs apportioned based on relative runoff and relative sediment delivery from contributing property;

- hears and considers testimony;
- may amend report, or resubmit to preparer(s) and reconsider amended report §103E.729, Subd. 3

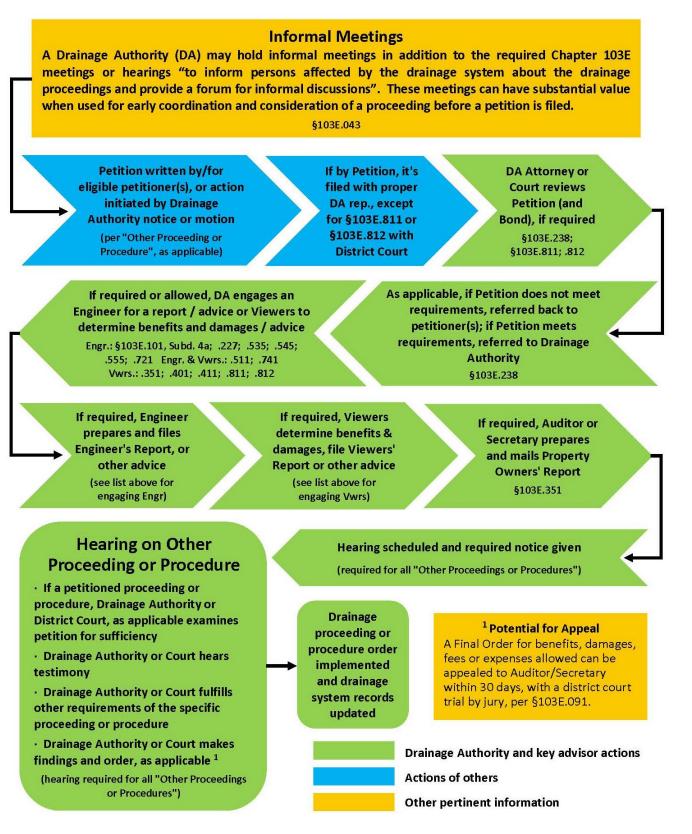
Drainage Authority makes findings and orders repair cost apportionment in accordance with §103E.728 or §103E.729<sup>1</sup> §103E.728; 103E.729, Subd. 4

## <sup>1</sup> Potential for Appeal

An order for repair cost apportionment using the relative runoff and sediment delivery option in §103E.729 can be appealed to the Auditor/Secretary within 30 days, with a district court trial without a jury, in accordance with §103E.729, Subd. 7 and §103E.095.

Drainage Authority and key advisor actions Other pertinent information

## Figure 5-1. Process Summary for "Other Proceedings or Procedures"



# **Goodhue County Land Use Management**

Goodhue County Government Center | 509 West Fifth Street | Red Wing, Minnesota 55066

Building | Planning | Zoning Telephone: 651.385.3104 Fax: 651.385.3106



Environmental Health | Land Surveying | GIS Telephone: 651.385.3223 Fax: 651.385.3098

TO:Goodhue County Board of CommissionersFROM:Lisa M. Hanni, LUM Director / County Surveyor / County RecorderMEETING DATE:September 1, 2020

# **RE:** County Ditch 1 Resolutions

# Attachments: 1) Redetermination of Benefits Resolution 2) Houston Engineering, Inc. Contract for Engineering Services -Engineer's Report 3) Resolution to Initiate Repair

# <u>Background:</u>

Goodhue County held a public information meeting with landowners in the County Ditch 1 (CD 1) area on August 20, 2020. Thirteen land owners attended along with Kale Van Bruggen, from Rinke Noonan, Chris Otterness, HEI, Commissioners Anderson and Flanders, Chris Fritz, SWCD, and Kenyon Township supervisors.

Staff presented a brief history of the Ditch, followed by Chris Otterness discussing the engineering inspection report, and Kale Van Bruggen discussing the legal procedures to follow. There were numerous questions from the land owners that attended.

As part of the process, more investigative work needs to be done by doing soil borings and surveying the tile outlets that come into the ditch. Chris Fritz, SWCD, has been working with the County Survey department and HEI to provide this information which would otherwise have been contracted out to the engineering firm.

We also need to hire a company to televise the 5 lateral tiles associated with the ditch to get an accurate assessment of the system's overall condition. This will be a separate contract with a tile inspection company, but is needed for the analysis of the system and part of the review that HEI needs to do their Repair Report.

At the time of the submission of this report, the bids have not come in for the tile inspection work. We also understand that Rice County may be in need of similar tile exploration. Staff will explore cost savings on this work if we can combine it with Rice County's project. In order to keep this process moving, we will request to allow staff to approve that contract if it is not available for this Board meeting. The following two resolutions are required to be approved in order to move forward with the process:

- 1) A resolution for the Board to order the redetermination of benefits for CD 1. Case law in Minnesota establishes that the drainage authority must have a record of findings that the land values or the benefited and damaged areas have changed in order to acquire jurisdiction over the redetermination of benefit proceedings. The attached findings and Order accomplish that legal requirement;
- 2) A resolution to order initiating the repair of CD 1. It directs HEI to prepare an engineer's report and file it with the County Administrator. It also directs HEI to inspect the lateral tiles and quantify their capacity.

Both resolutions include findings, and must be approved by roll call vote.

# <u>Request:</u>

Staff recommend that the County Board:

- 1) Approve the resolution to order the redetermination of benefits for County Ditch1;
- 2) Approve the contract with HEI to prepare the Engineer's Report;
- 3) Approve the resolution to initiate the repair of County Ditch 1;
- 4) Approve the televising of the lateral tiles contract, if available at the time of the September 1, 2020 County Board meeting. If the contract is not available in time for the Board meeting, allow the Land Use Management Director to approve and execute the tile contract.

# STATE OF MINNESOTA GOODHUE COUNTY BOARD OF COMMISSIONERS SITTING AS THE DRAINAGE AUTHORITY FOR GOODHUE COUNTY DITCH 1

In the Matter of the Redetermination of	Findings and Order Initiating the
Benefits of Goodhue County Ditch 1	Redetermination of Benefits

The Goodhue County Board of Commissioners, sitting as the drainage authority for Goodue County Ditch 1, pursuant to Minn. Stat. § 103E.351, based on the record and proceedings, Commissioner \_\_\_\_\_\_ moved, seconded by Commissioner \_\_\_\_\_\_ to adopt the following Findings and Order:

# Findings:

- 1. The Goodhue County Board of Commissioners is the drainage authority for Goodhue County Ditch 1.
- 2. Goodhue County Ditch 1 was established in 1954. Benefits for Goodhue County Ditch 1 were determined concurrent with establishment in 1954, prior to the initiation of modern, intensive farming and drainage practices within Goodhue County.
- 3. The current benefits roll reflects the benefitted properties, benefitted areas, and benefit values as determined by viewers based on assumptions regarding the future use and drainage of said properties.
- 4. Since the original establishment of Goodhue County Ditch 1 and the original determination of benefits and damages, land uses and drainage practices have changed to accelerate and increase the flow of water to the drainage system changing the nature and value of benefits accruing to lands from construction of Goodhue County Ditch 1.
- 5. Since the original determination of benefits and damages, land values have changed within the benefitted area of Goodhue County Ditch 1.
- 6. The drainage authority noticed and held an informational meeting on the proposed redetermination of benefits for Goodhue County Ditch 1 on August 20, 2020. The informational hearing was attended by landowners who confirmed certain conditions related to benefits on the drainage system.
- 7. The drainage authority finds that the conditions required for the initiation of a redetermination of benefits exist, that the original benefits and damages do not reflect reasonable present-day land values, and the benefitted areas have changed.

# Order:

Based on the foregoing Findings and the entire record of proceedings before the Board, the Board, acting as the drainage authority for Goodhue County Ditch 1, hereby orders as follows:

- A. The Board shall follow the procedures of Minn. Stat. § 103E.351 to conduct a redetermination of benefits for Goodhue County Ditch 1.
- B. That viewers shall be appointed by subsequent order in these proceedings.

After discussion, the Board Chair called the question. The question was on the adoption of the foregoing Findings and Order, and there were \_\_\_\_ yeas and \_\_\_\_ nays as follows:

	Yea	Nay	Absent	Abstain
ANDERSON				
DROTOS				
FLANDERS				
MAJERUS				
NESSETH				

Upon vote, the Chair declared the motion passed and the Findings and Order adopted.

Dated: September 1, 2020

Paul Drotos, Chairperson

\* \* \* \* \* \* \* \* \* \*

I, Scott O. Arneson, Goodhue County Administrator, do hereby certify that I have compared the above motion; Findings and Order with the original thereof as the same appears of record and on file with the Goodhue County Board of Commissioners and find the same to be a true and correct transcript thereof. The above Order was filed with me, Goodhue County Administrator on September 1, 2020.

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_\_, 2020.

Scott O. Arneson Goodhue County Administrator



7550 Meridian Circle North, Suite 120 Maple Grove, MN 55369

## VIA Email: lisa.hanni@co.goodhue.mn.us

August 24, 2020

Lisa Hanni Goodhue County 509 W. 5<sup>th</sup> St. Red Wing, MN 55066

## Subject: Proposal for Engineering Services on Goodhue County Ditch 1

Dear Lisa:

We are pleased to provide a proposal for engineering services related to a repair on County Ditch 1 in Goodhue County. **Attachment A** describes our intended scope of work and provides an estimated compensation based on the proposed scope of services for completing the project. The scope includes (1) inspection of the existing public drainage system tile and (2) development of a repair report with preliminary construction plans for the Main Trunk open channel. The total cost for completing the scope of work is **\$21,300**.

We have enclosed a Client Services Agreement for providing engineering services. If you would like us to proceed with this work, please sign and return to Houston Engineering, Inc. (HEI).

We are excited about the opportunity to serve Goodhue County and its landowners that rely on public drainage systems. If you have any questions regarding our proposal, please contact me at 763-493-6665 or via email at cotterness@houstoneng.com.

Sincerely, HOUSTON ENGINEERING, INC.

k / the

Chris C. Otterness, PE Principal-in-Charge Direct: 763.493.6665 cotterness@houstoneng.com



Maple Grove Office 7550 Meridian Circle North, Suite 120 Maple Grove, MN 55369 P: (763) 493-4522 | F: (763) 493-5572

## **CLIENT/OWNER SERVICES AGREEMENT**

PROJECT NAME: Goodhue CD 1 Tile Inspection and Repair Report

This Client/Owner Services Agreement ("Agreement") is made and entered into effective as of this <u>24th</u> day of <u>August</u>, 20<u>20</u>, by and between **HOUSTON ENGINEERING**, **INC.** ("Houston") and <u>Goodhue County</u> ("Client").

**Recitals** 

- A. Client has requested Houston to perform certain professional services in connection with a project generally referred to as <u>Goodhue CD 1 Tile Inspection and Repair Report</u> ("Project").
- B. Houston desires to provide the professional services requested by Client in accordance with this Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Houston and Client agree as follows:

1. Services. Houston shall perform the services set forth in Attachment A ("Services") in accordance with the terms and conditions of this Agreement.

2. Term of Agreement. This Agreement shall commence on the date first stated above, and Houston is authorized to commence performance of the Services as of that date. This Agreement shall terminate on the <u>1st</u> day of <u>March</u>, 20<u>20</u>, unless terminated earlier pursuant to the terms and conditions of this Agreement.

3. Attachments. The Attachments below, which have been marked for inclusion, are hereby specifically incorporated into and made a part of this Agreement:

ATTACHMENT A - SERVICES (Houston assumes no responsibility to perform any services not specifically listed.)

ATTACHMENT B - GENERAL TERMS AND CONDITIONS

- ATTACHMENT C -
- ATTACHMENT D -
- FEE SCHEDULE DATED \_\_\_\_\_.
- □ ALTA/NSPS LAND TITLE SURVEY RIDER

4. Compensation.

\$\_\_\_\_\_ Lump Sum Fee - Based on the Services defined herein

- \$ 21,300.00 Estimated Fee Client invoiced on an hourly basis commensurate with the attached Fee Schedule
- Percentage of Estimated Construction Cost
- \$ \_\_\_\_\_ Other -\_\_\_\_

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the date first above written:

CLIENT/OWNER

HOUSTON ENGINEERING, INC.

BY:

AUTHORIZED REPRESENTATIVE

BY: Chu CHU AUTHORIZED REPRESENTATIVE

TITLE:

TITLE: Principal / Project Manager

PLEASE SIGN AND RETURN ONE COPY TO HOUSTON AT THE ADDRESS ABOVE



Engineering Services Goodhue CD 1 August 24, 2020 Page 1

# ATTACHMENT A. PROPOSED SCOPE OF WORK

The purpose of this project is to conduct an inspection of the public drainage system tile of Goodhue County Ditch 1 (CD 1) and prepare an engineer's report evaluating the repair of the Main Trunk open channel to restore drainage function. The length of public drain tile is approximately 2.4 miles, and the open-channel portion of CD 1 is approximately 2.2 miles long. The following tasks describes HEI's anticipated scope of work.

## **Task 1: Tile Investigation**

HEI will prepare an assessment of the existing condition of the CD 1 public drain tile system. Based on our previous conversations with the County, we understand the County will contract with a tile inspection company to provide televising of tile systems in select locations chosen to provide an accurate assessment of the system's overall condition. We also understand the County will provide field survey of tile outlets into the ditch and known inlet locations.

HEI will use the field survey and historic plan and profile drawings to prepare GIS maps and establish the ACSIC of the public drain tile system. We will then calculate and tabulate the existing drainage coefficients for each of the tile lines. Based on this information and the televising report, we will prepare an assessment of the current condition and hydraulic capacity of the existing tile system.

## Task 2: Repair Report

HEI will determine the As-Constructed and Subsequently Improved Condition (ACSIC) of the open channel portion of CD 1 using field survey and soil borings provided by Goodhue County and information gathered from a one-day field inspection.

HEI will prepare plan and profile drawings using the field survey data to show the soil borings, culvert crossings, current elevations and alignment of the drainage system. Additionally, the drawings will include ditch stationing, existing ditch bottom and left and right bank profiles, soil boring elevations, Public Land Survey System (PLSS) sections, road labels, county parcels, parcel numbers and owner names, surveyed private laterals and tile outlets, and Public Waters and National Wetland Inventory data. Plan sheets will be 11" x 17" and scaled to approximately 3,000 lineal feet per sheet.

A report will be prepared that includes an overview of the drainage system condition, criteria used to develop and evaluate the ACSIC repair alternative, repair recommendations, opinion of probable cost, and preliminary construction plans for the recommended alternative.

The report will also discuss regulatory considerations associated with maintenance or repair activities, and will inform future permitting activities, which will be completed at a later date after a repair project is ordered. Most notably, repairs need to comply with the Wetland Conservation Act, which exempts impacts to Type 1, 2, 7, and 8 wetlands resulting from a repair, but does not exempt impacts to Type 3, 4, or 5 wetlands that have been in existence for 25 years. To verify exemptions and regulatory requirements applicable to a range of repairs, HEI will complete an off-site, GIS-based analysis of wetlands and wetland types. We understand that no public waters have been inventoried along CD 1.

A hydraulic analysis using the USGS StreamStats application and HY-8 will evaluate the necessary size of culverts to be replaced.



Engineering Services Goodhue CD 1 August 24, 2020 Page 2

HEI will provide a draft report, complete a virtual meeting with County staff to review the analysis, and attend and present at a public hearing. The presentation will include project maps, plans, and other graphics indicating the purposes for the repair, proposed alternatives examined, and the extent of repairs.

## DELIVERABLES

Our project scope and cost estimate will allow us to deliver:

- 1. One virtual meeting with County staff to discuss draft repair report
- 2. Draft and final repair report for CD 1, including findings related to the public drainage system tile inspection
- 3. Attend and present at a public hearing on the repair report

## ASSUMPTIONS

The estimated compensation associated with completing the proposed scope of work is based on the following assumptions:

- 1. Field survey will be provided by Goodhue County, including soil borings/probes to determine the historic channel bottom and tile intake locations
- 2. Tile inspection of portions of the public tile will be contracted separately by Goodhue County
- 3. All available historic drainage system records will be shared with HEI.
- 4. Goodhue County will provide one set of comments on the draft reports.
- 5. Costs do not include on-site wetland delineations or any local, state or federal permitting (this is expected to be completed, as-needed at a later date after a repair project is ordered).
- 6. No evaluation of public water impacts is required
- 7. Repair report will evaluate one repair alternative (as-constructed and subsequently improved condition)
- 8. One in-person meeting is included (public hearing for the repair)

## ESTIMATED COMPENSATION

Compensation for completing the tasks described in the Scope of Work and will be billed on a time and materials basis with the cost not to exceed the amount show below without approval by Goodhue County.

	TOTAL COST	\$ 21,300
Task 2: Repair Report		\$ 18 600
Task 1: Tile Investigation		\$ 2,700

## **PROJECT SCHEDULE**

HEI will begin work on the project once a signed contract between HEI and Goodhue County is executed (see attached *HEI General Terms and Conditions*). It is anticipated that field survey will occur in late fall 2020, public hearings on the repair report between November 2020 and February 2021, and repair work on the ditch will ultimately begin in the summer of 2021.

## **Additional Services**

HEI can provide an array of additional services to further support development and progression of the repair project, that are outside of this scope.

The additional services may include:

- Contract documents suitable for a public bidding process; and
- Construction management.



Engineering Services Goodhue CD 1 August 24, 2020 Page 3

The cost for these additional services can be provided on request and we would be happy to discuss the options with you.

# **General Terms and Conditions**

#### 1. STANDARD OF CARE

Houston shall perform its Services in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances in the region where the Project is located.

HoustonEngineering Inc.

#### 2. PAYMENT TERMS

Invoices will be submitted periodically (customarily on a monthly basis) and are due and payable upon receipt. Client agrees to pay a service charge on all accounts 30 days or most past due at a rate equal to one percent (1%) each month but in no event shall such service charge exceed the maximum amount allowed by law. Acceptance of any payment from Client without accrued service charges shall not be deemed to be a waiver of such service charges by Houston. In the event Client is past due with respect to any invoice Houston may, after giving five (5) days written notice to Client, suspend all services without liability until Client has paid in full all amounts owing Houston on account of services rendered and expenses incurred, including service charges on past due invoices. Payment of invoices is not subject to discount or offset by Client.

#### 3. CHANGES OR DELAYS

If the Project requires conceptual or process development services, such services often are not fully definable in the initial planning. If, as the Project progresses, facts develop that in Houston's judgment dictate a change in the Services to be performed, Houston shall inform Client of such changes and the parties shall negotiate, in good faith, with respect to any change in scope and adjustment to the time of performance and compensation and modify the Agreement accordingly. In the event the parties are unable to reach an agreement, either party may terminate this Agreement without liability by giving fourteen (14) days written notice to the other party. In the event of termination, the final invoice will include all Services and expenses associated with the Project up to the effective date of termination, and will also include equitable adjustment to reimburse Houston for any termination settlement costs incurred relating to commitments that had become firm before termination plus a 10 percent markup on those settlement costs.

#### 4. PAYMENT

Where the method of payment under the Agreement is based upon cost reimbursement (e.g., hourly rate, time and materials, direct personnel expense, per diem, etc.), the following shall apply: (a) the minimum time segment for charging work is one-quarter hour; (b) labor (hours worked) and expenses will be charged at rates commensurate with the attached fee schedule or, if none is attached, with Houston's current fee schedule (at the time of the work); (c) when applicable, rental charges will be applied to cover the cost of pilot-scale facilities or equipment, apparatus, instrumentation, or other technical machinery. When such charges are applicable, Client will be advised at the start of an assignment, task, or phase; and (d) invoices based upon cost reimbursement will be submitted showing labor (hours worked) and total expense. If requested by Client, Houston shall provide supporting documentation at Client's cost, including labor and copying costs.

#### 5. TERMINATION

Either party may terminate this Agreement, in whole or in part, by giving fourteen (14) days written notice to the other party, if the other party fails to fulfill its obligations under this Agreement through no fault of the terminating party. In such event, and subject to the limitations set forth in this Agreement, the non-defaulting party may pursue its rights and remedies as contemplated by this Agreement and as allowed by law.

#### 6. LIMITATION OF LIABILITY

In no event shall Houston be liable for incidental, indirect or consequential damages of any kind. Houston's maximum cumulative liability with respect to all claims and liabilities under this Agreement, whether or not insured, shall not exceed the greater of \$50,000 or the total compensation received by Houston under this Agreement. The disclaimers and limitations of liability set forth in this Agreement shall apply regardless of any other contrary provision set forth and regardless of the form of action, whether in contract, tort or otherwise. Each provision of this Agreement which provides for a limitation of liability, disclaimer of warranty or condition or exclusion of damages is severable and independent of any other provision and is to be enforced as such. Client hereby releases Houston from any and all liability over and above the limitations set forth in this paragraph.

#### 7. INSURANCE

Houston shall obtain and maintain during the term of this Agreement, at its own expense, workers' compensation insurance and comprehensive general liability insurance in amounts determined by Houston and will, upon request, furnish insurance certificates to Client. The existence of any such insurance shall not increase Houston's liability as limited by paragraph 6 above.

#### 8. HAZARDOUS SUBSTANCES

Client shall furnish or cause to be furnished to Houston all documents and information known by Client that relate to the identity, location, quantity, nature, or characteristics of any asbestos, pollutant or hazardous substance, however defined ("Hazardous Substances") at, on or under the Project site. Houston is not, and has no responsibility as a handler, generator, operator, treater, storer, transporter, or disposer of Hazardous Substances found or identified at the Project. Client agrees to bring no claim for fault, negligence, breach of contract, indemnity, or other action against Houston, its principals, employees, agents, and consultants, if such claim in any way would relate to Hazardous Substances in connection with the Project. Client further agrees, to the fullest extent permitted by law, to defend, indemnify, and hold harmless Houston, its principals, employees, agents, and expenses, direct or indirect, or consequential damages, including but not limited to fees and charges for attorneys and court and arbitration costs, arising out of or resulting from the performance of Houston's Services hereunder, or claims brought against Houston by third parties arising from Houston's Services or the services of others and/or work in any way associated with Hazardous Substance activities. This indemnification shall survive termination of this Agreement.

#### 9. INDEMIFICATION

Client shall indemnify, and hold harmless Houston, together with its officers, directors, agents, consultants and employees from and against any and all claims, costs, losses and damages, including attorneys' fees and other costs of litigation or dispute resolution arising directly or indirectly from Client's breach of this Agreement or Client's fault, negligent acts or omissions or intentional misconduct in connection with this Agreement or the Project. Subject to the limitations set forth in this Agreement, Houston shall indemnify and hold harmless Client, together with its officers, directors, agents, consultants and employees from and against any and all claims, costs, losses and damages, including attorneys' fees and other costs of litigation or dispute resolution arising directly or indirectly from Houston's breach of this Agreement or Houston's fault, negligent acts or omissions or intentional misconduct in connection with this Agreement or the Project. The indemnification obligations set forth in this paragraph shall survive termination of this Agreement.

#### **10. WARRANTY**

Except as specifically set forth in this Agreement, Houston has not made and does not make any warranties or representations whatsoever, express or implied, as to Services performed or products provided including, without limitation, any warranty or representation as to: (a) the merchantability or fitness or suitability of the Services or products for a particular use or purpose whether or not disclosed to Houston; and (b) delivery of the Services and products free of the rightful claim of any person by way of infringement (including, but not limited to, patent or copyright infringement) or the like. Houston does not warrant and will not be liable for any design, material or construction criteria furnished or specified by Client and incorporated into the Services provided hereunder.

#### 11. PROJECT SITE

Client shall furnish such reports, data, studies, plans, specifications, documents, and other information regarding surface and subsurface site conditions required by Houston for proper performance of its Services. Houston shall be entitled to rely upon Client provided documents and information in performing the Services required under this Agreement. Houston assumes no responsibility or liability for the accuracy or completeness of any such documents or information. Houston will not direct, supervise, or control the work, means or methods of contractors or their subcontractors in connection with the Project. Houston's Services will not include a review or evaluation of the contractor's or subcontractor's safety measures. The presence of Houston, its employees, agents or subcontractors on a site shall not imply that Houston controls the operations of others nor shall it be construed to be an acceptance by Houston of any responsibility for job-site safety.

#### **12. CONFIDENTIALITY**

Houston shall maintain as confidential and not disclose to others without Client's prior consent all information obtained from Client that was not otherwise previously known to Houston or in the public domain and is expressly designated by Client in writing to be "CONFIDENTIAL." The provisions of this paragraph shall not apply to information in whatever form that (a) is published or comes into the public domain through no fault of Houston, (b) is furnished by or obtained from a third party who is under no obligation to keep the information confidential, or (c) is required to be disclosed by law on order of a court, administrative agency, or other authority with proper jurisdiction. Client agrees that Houston may use and publish Client's name and a general description of Houston's services with respect to the Project in describing Houston's experience and qualifications to other clients or potential clients.

#### 13. RE-USE OF DOCUMENTS

All documents, including drawings and specifications, prepared or furnished by Houston (and Houston's affiliates, agents, subsidiaries, independent professional associates, consultants, and subcontractors) pursuant to this Agreement are instruments of service in respect of the Project, and Houston shall retain ownership thereof, whether or not the Project is completed. Client may make and retain copies for information and reference in connection with the Project; however, such documents are not intended or represented to be suitable for re-use by Client or others on extensions of the Project or on any other project. Any re-use without written verification or adaptation by Houston for the specific purpose intended will be at Client's sole risk and without liability to Houston or Houston's affiliates, agents, subsidiaries, independent professional associates, consultants, and subcontractors with respect to any and all costs, expenses, fees, losses, claims, demands, liabilities, suits, actions, and damages whatsoever arising out of or resulting therefrom. Any such verification or adaptation will entitle Houston to further compensation at rates to be agreed upon by Client and Houston.

#### 14. REMEDIES

Subject to the limitations set forth in this Agreement, in the event any party is in default of this Agreement, the non-defaulting party shall be entitled to pursue all rights and remedies available to it under this Agreement or as allowed by law.

#### 15. PROPRIETARY DATA

The technical and pricing information in connection with the Services provided by Houston is confidential and proprietary and is not to be disclosed or otherwise made available to third parties by Client without the express written consent of Houston.

#### 16. GOVERNING LAW

The validity, construction and performance of this Agreement and all disputes between the parties arising out of or related to this Agreement shall be governed by the laws, without regard to the law as to choice or conflict of law, of the State of North Dakota. Client consents to jurisdiction as to all issues concerning or relating to this Agreement or the Project with the federal or state district courts designated for Cass County, North Dakota.

#### 17. DATA PRACTICES ACT REQUESTS

Houston considers certain information developed during the execution of services as "not public" and "protected" from public disclosure under the various local, state and federal data practices laws. Client shall reimburse Houston for any and all costs and expenses, including attorneys' fees associated with any requests for release of information under any such laws.

#### 18. FORCE MAJURE

Houston shall not be liable for any loss, damage or delay resulting out of its failure to perform hereunder due to causes beyond its reasonable control including, without limitation, acts of nature or the Client, acts of civil or military authority, terrorists threats or attacks, fires, strikes, floods, epidemics, quarantine restrictions, war, riots, delays in transportation, transportation embargos, extraordinary weather conditions or other natural catastrophe or any other cause beyond the reasonable control of Houston. In the event of any such delay, Houston's performance date(s) will be extended for that length of time as may be reasonably necessary to compensate for the delay.

#### 19. WAIVER OF JURY

In the interest of expediting any disputes that might arise between Houston and Client, Client hereby waives its rights to a trial by jury of any dispute or claim concerning this Agreement, the Services, the Project and any other documents or agreements contemplated by or executed in connection with this Agreement.

#### 20. NOTICES

Any and all notices, demands or other communications required or desired to be given under this Agreement shall be in writing and shall be validly given or made if personally served; sent by commercial carrier service; or if deposited in the United States Mail, certified or registered, postage prepared, return receipt requested. If such notice or demand is served personally, notice shall be deemed constructively made at the time of such personal service. If such notice, demand or other communication is given by mail or commercial carrier service, such notice shall be conclusively deemed given three (3) days after deposit thereof in the United States Mail or with a commercial carrier service. Notices, demand or other communications required or desired hereunder shall be addressed to the individuals indicated in this Agreement at the addresses indicated in this Agreement. Any party may change its address or authorized recipient for purposes of this paragraph by written notice given in the manner provided above.

#### 21. MISCELLANEOUS

This Agreement shall take precedence over any inconsistent or contradictory provisions contained in any proposal, contract, purchase order, requisition, noticeto-proceed, or like document regarding the Services. If any provision of this Agreement is determined to be invalid or unenforceable in whole or part by a court of competent jurisdiction, the remaining provisions hereof shall remain in full force and effect and be binding upon the parties hereto. The parties agree to reform this Agreement to replace any such invalid or unenforceable provision with a valid and enforceable provision that as closely as possible expresses the intention of the stricken provision. This Agreement, including but not limited to the indemnification provisions, shall survive the completion of the Services under this Agreement and the termination of this Agreement. This Agreement gives no rights or benefits to anyone other than Houston and Client and has no third party beneficiaries except as may be specifically set forth in this Agreement. This Agreement constitutes the entire agreement between the parties and shall not in any way be modified, varied or amended unless in writing signed by the parties. Prior negotiations, writings, quotes, and understandings relating to the subject matter of this Agreement are merged herein and are superseded and canceled by this Agreement. Headings used in this Agreement are for the convenience of reference only and shall not affect the construction of this Agreement. This Agreement and the rights and duties hereunder may not be assigned by Client, in whole or in part, without Houston's prior written approval. No failure or delay on the part of Houston in exercising the right, power or remedy under this Agreement shall operate as a waiver thereof; nor shall any single or partial exercise of any rights, power or remedy preclude any other or further exercise thereof or the exercise of any other right, power or remedy hereunder. The remedies provided in this Agreement are cumulative and not exclusive

# STATE OF MINNESOTA GOODHUE COUNTY BOARD OF COMMISSIONERS SITTING AS THE DRAINAGE AUTHORITY FOR GOODHUE COUNTY DITCH 1

In the Matter of the	FINDINGS & ORDER DIRECTING
Repair of Goodhue County Ditch 1	<b>REPAIR BY PETITION PROCEEDINGS</b>

The Goodhue County Board of Commissioners ("**Board**"), sitting as the drainage authority for Goodhue County Ditch 1 ("**CD 1**"), having received a drainage inspection report in writing pursuant to Minn. Stat. § 103E.705, subd. 3 designating portions of CD 1 that need repair, Commissioner \_\_\_\_\_\_ moved, seconded by Commissioner \_\_\_\_\_\_ to adopt the following Findings and Order:

# Findings:

- 1. The Goodhue County Board of Commissioners is the drainage authority ("**Drainage Authority**") for CD 1. CD 1 is located in Township 109N, Range 18W, Sections 28, 29, 32, and 33.
- 2. CD 1 was established by the drainage authority in 1954. A majority of the construction was completed in 1955, with the construction contract completed in March of 1956.
- 3. In 1961, CD 1 improved coincident with installation of Private Ditch 42, to widen the downstream end of the drainage system from 6-feet wide to 10-feet wide.
- 4. Since CD 1 was established and improved, it has undergone only minor repairs.
- 5. In recent years, the Drainage Authority has received complaints from landowners affected by CD 1 about the condition of the drainage system.
- 6. On June 3, 2020, the Drainage Authority contracted with Houston Engineering, Inc. ("**HEI**") to complete an inspection report pursuant to Minn. Stat. § 103E.705, subd. 3. The Drainage Authority also directed HEI to investigate the drainage system records and determine whether adequate records establishing the alignment, cross-section, profile, or right-of-way exist in order to proceed with a repair of CD 1.
- 7. HEI completed its investigation of the drainage system records and the existing conditions on the drainage system. HEI's findings are documented in its Final Technical

Memorandum dated June 26, 2020 ("**2020 Inspection Report**") and filed thereon with the Goodhue County LUM Director, County Surveyor & Recorder, Lisa M. Hanni, LS.

- 8. The 2020 Inspection Report concludes that adequate information exists in the CD 1 drainage system records to establish channel alignment, right-of-way, and cross-section, but additional information and investigation will be necessary to determine the as-constructed-and subsequently-improved-condition ("ACSIC") grade of a repair of the open ditch portions of the system is to be ordered.
- 9. The 2020 Inspection Report also documents observations regarding the present condition of CD 1. The report notes that sediment, deadfalls, and other vegetative debris is prevalent through CD 1, particularly in the lower portions of the Main Trunk. Several bank locations have sloughed and that the channel bottom is unstable, with the channel thalweg (bottom) migrating within the CD 1 right-of-way. The report also notes that there were several large blockages that caused water to pool for several hundred feet upstream.
- 10. The 2020 Inspection Report notes that 2 culverts installed on the open channel portion of the ditch at the time of establishment are in noticeable disrepair. The 54" CMP field crossing at Station 30+00 is bent and damaged, and the 54" CMP at Station 60+72 (20<sup>th</sup> Avenue) appears to be a foot or mote above the current channel grade. The report further notes that one of the two box culverts at the outlet of CD 1 on County Road 13 is substantially blocked with sediment.
- 11. The 2020 Inspection Report concludes that CD 1 is in disrepair due to vegetative growth, flow impediments, and channel instability. The report recommend the Drainage Authority initiate a repair proceeding to restore the function and capacity of CD 1. The report also noted that the scope of the inspection report did not include any of the CD 1 lateral tiles, and recommends the lateral tiles be televised to identify sources of failures and verify the overall condition of the tile.
- 12. A landowner informational meeting was noticed and held on August 20, 2020 at the Wanamingo Community Room, 401 Main Street, Wanamingo, Minnesota. At the landowner informational meeting, Lisa Hanni, LS, Goodhue County LUM Director, Surveyor, & Recorder presented the history of CD 1; Chris Otterness, P.E. with HEl presented the 2020 Inspection Report, and Kale Van Bruggen, attorney with Rinke Noonan Law Firm, provided an overview of Minn. Stat. ch. 103E requirements for inspections, repairs, redetermination of benefits, and improvements.
- 13. At the landowner informational meeting, landowners provided comments regarding the current condition of access and township road culverts, the open portions of the CD 1 system, and the lateral tiles. Support for proceeding with a repair of the open ditch portions of the CD 1 drainage system concurrent with conducting a redetermination of

benefits was expressed by multiple landowners in attendance. Several landowners also voiced support for inspecting the lateral tile portions of CD 1 in order to ascertain the source of present failures, verify the overall condition of the tile, and quantify the existing capacity of the tile lines in order to inform a decision for landowners on whether to petition for improvement to one or more tiles.

- 14. The Board finds that based upon the 2020 Inspection Report, the comments shared by affected landowners at the August 20, 2020 informational meeting, and evidence presented by county staff, that CD 1 needs repair.
- 15. The Drainage Authority finds that the estimated costs of the repairs of CD 1 will exceed the greater of 20 percent of the benefits of the drainage system, \$1,000 per mile of open ditch in the ditch system, or the dollar amount requiring the solicitation of sealed bids under statutes, section 471.345, subdivision 3 (\$175,000).
- 16. The Goodhue County Board of Commissioners, the drainage authority for CD 1, is an entity interested in or affected by CD 1 and hereby petitions for repair of CD 1 as directed herein under the petition procedures in Minn. Stat. § 103E.715 and chapter 103E.

# ORDER

Based on the foregoing Findings, the Goodhue County Board of Commissioners, sitting as the drainage authority for Goodhue County Ditch 1, hereby orders as follows:

- 1. The Board hereby accepts these Findings and Order as the petition for repair of CD 1 and assumes jurisdiction over the repair proceedings according to Minnesota Statutes, section 103E.715 repair procedures, as directed by Minnesota Statutes, section 103E.705, subdivision 6.
- 2. The Board hereby appoints Chris Otterness, P.E. of Houston Engineering, Inc. as the engineer to examine the drainage system and make a repair report in conformance with Minn. Stat. § 103E.715, subd. 2 directed at the issues identified in the 2020 Inspection Report, including the repair of the open ditch portions of CD 1. Further, the engineer shall inspect the lateral tiles by televising portions of the tile to identify the source of failures, as necessary, to verify the overall condition of the tile, and to quantify and report on the existing capacity of these tiles.
- 3. When the repair report is filed, the County Administrator and staff shall promptly notify the Board and the Board, in consultation with the Administrator, will set a time, by order, not more than 30 days after the date of the order, for a hearing on the repair report.

After discussion, the Board Chair called the question. The question was on the adoption of the foregoing Findings and Order, and there were \_\_\_\_ yeas and \_\_\_\_ nays as follows:

	Yea	Nay	Absent	Abstain
ANDERSON				
DROTOS				
FLANDERS				
MAJERUS				
NESSETH				

Upon vote, the Chair declared the motion passed and the Findings and Order adopted.

Dated: September 1, 2020

Paul Drotos, Chairperson

\* \* \* \* \* \* \* \* \* \*

I, Scott O. Arneson, Goodhue County Administrator, do hereby certify that I have compared the above motion; Findings and Order with the original thereof as the same appears of record and on file with the Goodhue County Board of Commissioners and find the same to be a true and correct transcript thereof. The above Order was filed with me, Goodhue County Administrator on September 1, 2020.

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_\_, 2020.

Scott O. Arneson Goodhue County Administrator