

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

April 6, 2022

Representatives
Elm Creek Watershed Management Commission
Hennepin County, MN

The meeting packet for this meeting may be found on the Commission's website:
<http://www.elmcreekwatershed.org/minutes--meeting-packets.html>

Dear Representatives:

A regular meeting of the Elm Creek Watershed Management Commission will be held on **Wednesday, April 13, 2022, at 11:30 a.m.** **This will be a virtual meeting.**

To join the meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click **Join A Meeting**. The meeting ID is **990-970-201**. The password is **water**.

If your computer is not equipped with audio capability, you need to dial into one of these numbers:

+1 929 205 6099 US (New York)	+1 312 626 6799 US (Chicago)
+1 669 900 6833 US (San Jose)	+1 346 248 7799 US (Houston)
+1 253 215 8782 US	+1 301 715 8592 US

Meeting ID: 990 970 201. Passcode: 579973

Meetings remain open to the public via the instructions above.

Please email me at judie@jass.biz to confirm whether you or your Alternate will be attending this meeting.

Thank you.



Judie A. Anderson
Administrator
JAA:tim

Encls: Meeting Packet

cc:	Alternates	Erik Megow	James Kujawa	Rebecca Carlson	Ed Matthiesen
	TAC Members	Karen Galles	Kris Guentzel	Kevin Ellis	Diane Spector
	City Clerks	Brian Vlach	BWSR	Met Council	
	Official Newspaper	MPCA	DNR		

Z:\Elm Creek\Meetings\Meetings 2022\04 Notice_reg meeting .dot

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AGENDA Regular Meeting April 13, 2022

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Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join this meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click Join A Meeting. The meeting ID is **990-970-201**. The password is **water**. If your computer is not equipped with audio capability, dial into one of these numbers:

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1. Call Regular Meeting to Order.
 - a. Approve Agenda.*
2. Consent Agenda.
 - a. Minutes last Meeting.*
 - b. Treasurer's Report and Claims.*
3. Open Forum.
4. Action Items.
 - a. Project Reviews – *also see Staff Report*.*
 - b. Technical Advisory Committee.
 - 1) Approve revisions to CIP.*
 - 2) Approve revisions to Rules and Standards. *
 - 3) Call for Public Meeting. *
 - c. Approve 2021 Annual Report.*
5. Old Business.
 - a. PRAP subcommittee report – verbal update.
6. New Business.
7. Communications.
 - a. Staff Report.*
 - b. Communications Log.*
 - c. County Staff Report.*
8. Education.
 - a. WMWA – next meeting – May 10, 2022, at 8:30 a.m. This will be a **virtual** meeting.
9. Grant Opportunities and Updates.
 - a. April - 2022-2023 WBIF Convene Meeting.*

*in meeting packet

**available at meeting or on website

10. Project Reviews.

Item No.	E	A	I RPF	AR	Project No.	Project Name
			RP DD			
					W=wetland project	
ba.				AR	2014-015	Rogers Drive Extension, Rogers.
bb.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
bc.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
bd.				AR	2017-014	Laurel Creek, Rogers.
be.				AR	2017-029	Brayburn Trails, Dayton.
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bl.				AR	2020-009	Stetler Barn, Medina.
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bp.				AR	2020-033	Weston Woods, Medina.
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bu.				AR	2021-021	Territorial Triangle, Dayton.
bv.				AR	2021-023	Maple Grove Medial Office Building (MOB).
bw.				AR	2021-024	Riverwalk, Dayton
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c.					2021-026	Prairie Creek Subdivision, Medina.
bx.					2021-027	Xcel Energy Elm Creek Substation, Maple Grove
d.					2021-028	The Cubes at French Lake, Dayton
e.					2021-029	Tri-Care Grocery / Retail, Maple Grove
f.					2021-030	Tri-Care Grading and Roads, Maple Grove
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by.					2021-035	Mister Car Wash - Rogers
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r.					2021-049	Dayton Interchange Business Center, Dayton.
s.					2021-050	Evanswood, Maple Grove.

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y.					2022-001	Dayton Field 2nd Addition, Dayton.
z.					2022-002	Summerwell, Maple Grove.
aa.	E	A			2022-003	Fox Briar Ridge East, Maple Grove.
ab.					2022-004	Loram-Scannell Medina Industrial EAW, Medina.
ac.					2202-005	Bellwether 7 th , Corcoran.
ad.					2022-006	Hamel Townhomes, Medina.
ae.	E	A			2022-007	Weston Commons 2nd, Maple Grove.
af.	E	A			2022-008	Bechtold Farm, Corcoran.
ag.	E	A			2022-009	Dunkirk Lane Development, Plymouth.
ah.					2022-010	Unity Tool Building Addition, Dayton.
ai.					2022-011	Arrowhead Drive turn Lane expansion,
aj.					2022-012	Graco Building 2, Dayton.
ak.					2022-013	Dayton 94 Industrial Site, Dayton.
al.					2202-014	Aster Mill, Rogers.
am.					22022-015	County Road 47 Phase I Reconstruction, Plymouth.
ap.					2022-016	Rogers Activity Center, Rogers.

= Action item E = Enclosure provided I = Informational update will be provided at meeting RPFI - removed pending further information
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11. Other Business.

a. Return to In-Person Meetings.*

12. Adjournment.

Z:\Elm Creek\Meetings\Meetings 2022\04 Regular Meeting Agenda.docx

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Regular Meeting Minutes March 9, 2022

I. A virtual meeting of the Elm Creek Watershed Management Commission was called to order at 11:33 a.m., Wednesday, March 9, 2022, by Chair Doug Baines.

Present were: Bill Walraven, Champlin; Tom Anderson, Corcoran; Doug Baines, Dayton; Dan Riggs, Maple Grove; Terry Sharp, Medina; Jake Gateman, Plymouth; David Katzner, Rogers; and Amy Juntunen and Judie Anderson, JASS.

Also present: Heather Nelson, Champlin; Kevin Mattson, Corcoran; Nico Cantarero, Stantec, Dayton; Derek Asche and Mark Lahtinen, Maple Grove; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; Diane Spector, Ross Mullen, and Erik Megow, Stantec; James Kujawa, Surface Water Solutions; Rebecca Carlson, Resilience Resources; Kris Guentzel and Kevin Ellis, Hennepin County Environmental Services (HCEE); Brian Vlach, Three Rivers Park District (TRPD); and Jeff Weiss, MN DNR.

A. Motion by Walraven, second by T. Anderson to approve the **revised agenda**.* *Motion carried unanimously.*

B. Motion by Walraven, second by Sharp to approve the **minutes*** of the February 12, 2022, regular meeting. *Motion carried unanimously.*

C. Motion by Walraven, second by Sharp to approve the March **Treasurer's Report** and **Claims*** totaling \$11,422.06. *Motion carried, Rogers absent.*

II. Open Forum.

III. Action Items.

A. **Election of Officers.** Hearing no further nominations, motion by Anderson, second by Sharp to elect the following officers for 2022: Baines, Chair; Catherine Cesnik, Plymouth, Vice Chair; Walraven, Secretary; Ken Guenther, Corcoran, Treasurer. *Motion carried unanimously.*

B. **Annual Appointments.** Motion by Walraven, second by Gateman to appoint the following for 2022: Official Newspaper, *Osseo-Maple Grove Press*; Official Depositories, US Bank and the 4M fund; Deputy Treasurer, Judie Anderson; and Auditor, Johnson & Co., Ltd. *Motion carried unanimously.*

C. Project Reviews.

1. **2021-050 Evanswood, Maple Grove.*** This proposed development will construct 227 single-family and 138 townhomes in the northwest corner of Maple Grove, disturbing 108.5 acres, and creating 45.8 acres of impervious surfaces, 41.4 acres of which is net, new impervious surfaces. The project was reviewed for Rules D, E, F, G, and I. In their findings dated March 2, 2022, Staff recommend approval contingent on five conditions: (1) final escrow balance being reconciled; (2) provision of a Stormwater Maintenance Agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMP's on the site that will not be operated and maintained by the City. Because the irriga-

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RULE I - BUFFERS

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tion system included with the stormwater reuse BMP is part of the overall water reuse system that is necessary to meet the Commission's standards, the irrigation system shall be included in the Stormwater Maintenance Agreement. The applicant should provide irrigation distribution plans (pipe locations, size, preliminary pump plan, augmentation water information, area to be irrigated, and demonstration that the receiving soils have infiltration capacity) and an Operation and Maintenance Plan for the stormwater system, including the irrigation system; (3) a wetland de minimis exemption plan approved by the LGU and the TEP; (4) wetland monumentation along Lots R1 through R40 and U1 through U22 shall be in provided in accordance with Commission standards; and (5) a rock construction entrance shall be provided for Driveway #1 for access from 105th Avenue North. Motion by Walraven, second by Riggs to approve Staff's recommendations. *Motion carried unanimously.*

2. **2021-052 Norbella Senior Living, Rogers.*** This project will construct a 40-unit senior living facility on South Diamond Lake Road. The proposed disturbance is 2.4-acres with net, new impervious surfaces of 1.4-acres. The project is being reviewed for Rules D and E. Initial comments were sent to the applicant on December 16 and Staff received responses on January 25. In their findings dated February 14, 2022, Staff recommend approval contingent on three conditions: (1) final escrow balance being reconciled, (2) a stormwater maintenance agreement being put in place between the owner and the City with terms acceptable to the Commission, and (3) a detail being added to the construction drawings showing the inspection ports being installed along the isolator row of the underground filtration system. Motion by Walraven, second by Sharp to approve Staff's recommendations. *Motion carried unanimously.*

D. Technical Advisory Committee (TAC) Recommendations.

1. Motion by Walraven, second by T. Anderson to approve the TAC's recommendation to approve a Cost Share Application for the **Rice Lake Subwatershed Assessment**. *Motion carried unanimously.* The total cost of the SWA is estimated to be \$30,000; the anticipated Commission share will be \$7,500.00.

2. Motion by Walraven, second by Gateman to approve the TAC's recommendation to approve a revision to the Commission's Rule B. regarding **Operations and Maintenance Agreements** as part of the project review approval process. *Motion carried unanimously.* The revised language will read: *Conditions of approval for project reviews and agreements implementing those conditions that bind future owners of the project shall be recorded to provide notice to future owners of the conditions of approval and the future owners' continuing operation and maintenance obligations.*

3. Motion by Walraven, second by T. Anderson to approve the TAC's recommendation to approve revisions to the **Commission's Cost Share Policy**. *Motion carried unanimously.* The revisions are as follows:

The Commission has elected to fund capital projects through an ad valorem tax levy. Under the authority provided by MN Stat 103B.251, Subd. 5, the Commission has the authority to certify for payment by the county all or part of the cost of an approved capital improvement. The Commission will pay up to 25 percent of the cost of qualifying projects. This amount will be shared by all taxpayers in the watershed, with the balance of the project cost being shared by the local government(s) participating in or benefiting from the improvement.

a. ~~The Commission's maximum annual share of an approved project is up to \$250,000.~~

1) *The Commission's share will be funded through the ad valorem tax levy – spread across all taxpayers within the watershed.*

2) *The Commission will use a maximum annual levy of ~~\$500,000~~ \$750,000 as a working guideline.*

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[Katzner arrived 12:15 p.m.]

4. Motion by Walraven, second by Sharp to approve the TAC's recommendation to select Stantec, minus Task 2, Subtask 7 of their March 2, 2022, proposal, to complete **revisions to the HUC-8 Model**. *Motion carried unanimously*. Stantec's total budget was \$65,875. Excluding \$20,125 for Subtask 7, the approved project amount totals \$45,750.

E. Motion by Sharp, second by Katzner to accept the **2022 Work Plan** as provided in the meeting packet. *Motion carried unanimously*.

IV. Old Business.

A The **PRAP subcommittee** met on February 16, 2022. Spector provided a brief verbal update. More information will be included in the April meeting packet.

B. Reminder: Volunteers are needed for **CAMP monitoring** this year. Staff will review which lakes are needful of monitoring data.

V. New Business.

A. Asche recapped the **Technical Advisory Committee meeting** that preceded this meeting. Along with the items discussed above, the members continued to discuss **revisions to the Commission's Rules**. Their discussion focused on rules pertaining to low floor/freeboard and linear projects.

The members also reviewed projects proposed for the **2022 ad valorem levy**. Three projects, including the perpetual city and partnership cost share projects, were added to the CIP for 2022. A final recommendation will be brought to the Commission at the April meeting, with a public hearing tentatively scheduled during the May meeting.

B. Spector reported on the initial Convene Meeting for the **2022-2023 Watershed-Based Implementation Fund (WBIF) process**. This meeting occurred during the preceding TAC meeting.

1. Present were Nelson and Cantarero representing the member cities, Baines, representing the Commission, Guentzel, representing Hennepin County as the Soil and Water Conservation District, and Steve Christopher as the BWSR Board Conservationist. Spector served as facilitator. As the first order of business, the members chose to use "consensus" as its decision-making process.

2. WBIF funds allotted to the Elm Creek Partnership total \$297,774. Funding is available July 1, 2022; the grant expires December 31, 2025. One or several projects can be chosen for funding. The deadline to complete eLINK work plans for approval by BWSR is March 30, 2023.

3. Members agreed to review existing subwatershed assessments to identify projects and to also consider undertaking additional SWAs if they can be identified in time for WBIF funding. The watershed-wide TMDL will be reviewed to identify places where projects can be developed to help meet load reductions. They will also look at the CIP to identify other projects and to reach out to member cities to determine if local projects can be expanded for water quality if the money was not initially available.

4. The members queried Christopher on what other activities, such as studies and education, would be eligible for the WBIF funds. Spector will send out a spreadsheet of projects for consideration at the next Convene meeting, which is scheduled to be held during the April 13, 2022, TAC meeting.

VI. Communications.

A. **Staff Report.*** Staff reports provide updates on the development projects currently under

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review by Staff or awaiting final recordations. The projects listed in the table beginning on page 5 of these minutes are discussed in this month's report. Mullen provided his **Communications Log*** of activities related to pre-project review activity as an addendum to the Staff Report.

B. Hennepin County Staff Report.*

1. The **2022 Technical Services Agreement** with the Commission is being circulated within the County for internal approval and signature.

2. Project Updates.

a. **Jubert Lake Agricultural BMPs Phase 1A.** The contract has been signed by the landowner and returned to Hennepin County. County staff met with EOR to discuss updates to the plan set based on a previous field visit and meeting with the landowner. The contract was signed by EOR and updated plans were submitted to Hennepin County. The current plan set is being reviewed by the landowner. Construction is slated to begin in Summer and Fall 2022.

b. **6650 Pioneer Trail, Corcoran.** County staff met with the landowner and provided an updated plan set for a potential Water And Sediment Control Basin (WASCOB). Discussions outlined the potential for tile to be integrated into Jubert Lake Agricultural BMPs (Phase 1B, BMP 13SE). Plans are currently being amended to reflect this request. Landowner is currently getting estimates for potential work.

VII. Education and Public Outreach.

A. The West Metro Water Alliance (WMWA) met on March 8, 2022.

B. WMWA is considering creating a part-time employee position to conduct regular outreach including providing workshops and trainings for citizens, city staff and elected officials, and help public partners to meet federal, state, and local rules and MS4 requirements. This position will coordinate other outreach activities, promote cost-share grants, and maintain a higher level of communications between the member watersheds and cities. It is modeled after the very successful East Metro Water Resources Education Program (EMWREP) which began in 2006 with a single full-time employee and the goal of raising public awareness and inspiring behavior change to protect and improve water quality.

C. The **next WMWA meeting** will be held via Zoom at 8:30 a.m., April 12, 2022.

VIII. Grant Opportunities and Project Updates.

IX. Other Business.

X. **Adjournment.** There being no further business, motion by Sharp, second by Walraven to adjourn. *Motion carried unanimously.* The meeting was adjourned at 12:56 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

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Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	Mar 2022	April 2022	2022 Budget YTD
EXPENSES					
Administrative		95,000	9,823.78	10,928.30	31,636.13
Grant Writing		500			0.00
Website		3,000	29.40	126.30	202.60
Legal		2,000	232.50		232.50
Audit		6,000			0.00
Insurance		3,800		200.00	200.00
Miscellaneous/Contingency		1,000			0.00
Floodplain Mapping		0		1,045.00	1,045.00
Project Review Technical		107,500	22,468.25	12,953.50	35,421.75
Other Technical		77,500	9,498.25	4,490.75	13,989.00
Project Reviews - Admin Support		15,000	775.90	1,615.28	3,610.64
Stream Monitoring USGS		24,000			0.00
Stream Monitoring TRPD		9,345			0.00
DO Longitudinal Survey		1,200			0.00
Rain Gauge		420	27.42	28.42	84.26
Lakes Monitoring - CAMP		840			0.00
Lakes Monitoring - TRPD					0.00
Sentinel Lakes		8,460			0.00
Additional Lake		1,352			0.00
Aquatic Vegetation Surveys		1,300			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		2,500	20.25	31.50	51.75
WMWA General Activities		5,000			0.00
WMWA Implementation/Watershed Prep		4,500			0.00
Rain Garden Wkshops/Intensive BMPs/Special Proj		2,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Studies / Project ID / SWA		0			0.00
CIPs General		3,000	492.86	167.24	660.10
Rush Creek SWA Implementation		106,050			
Plan Amendment		2,000		100.96	100.96
Contribution to 4th Gen Plan		12,500			0.00
Transfer to (from) Capital Projects (see CIP Tr		291,638			0.00
Transfer to (from) Cash Sureties (see below)			19.95	464.00	504.11
Transfer to (from) Grants (see below)		125,000	-	-	0.00
To Fund Balance					0.00
TOTAL - Month			43,388.56	32,151.25	87,738.80
TOTAL Paid in 2022, incl late 2021 Expenses		931,405.00	141,314.06	173,465.31	2022 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	Mar 2022	April 2022	2022 Budget YTD
INCOME					
Project Review Fee		107,500	39,825.00		59,400.00
Refund Project Fee					0.00
Nonrefundable Admin		15,000			
Nonrefundable Technical		16,125			
Water Monitoring - TRPD Co-op Agmt		6,000			0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		5,250	74.89		100.39
Transfer to (from) Capital Projects (see CIP Tr		291,638			0.00
Transfer to (from) Grants (see below)		125,000	-	-	0.00
Rush Creek SWA Implementation		79,537			
Transfer from Assigned Fund Balance		26,513			
Misc Income / Contingency		10,750			0.00
From Unrestricted Cash Reserves		10,792			0.00
Total - Month			39,899.89	0.00	296,800.39
TOTAL Rec'd 2022, incl late 2021 Income		931,405.00	303,271.38	303,271.38	2022 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,503,168.70	1,665,126.02	1,632,974.77	
Cash on Hand			1,665,126.02	1,632,974.77	
CASH SURETIES		Balance Fwd			Activity 2021
WCA Administrative Escrows		338	(19.95)		-40.11
WCA Monitoring Escrows		7,767		(464.00)	-464.00
Total Cash Sureties		8,105	8,064.66	7,600.66	
Deferred Revenue - 2019 WBIF Grant		67,243			
Total Restricted Cash		75,348	75,387.88	75,851.88	
Claims Presented		General Ledger Account No	March	April	TOTAL
Campbell Knutson - Legal		521000			0.00
Connexus - Rain Gauge		551100		28.42	28.42
Barr Engineering					464.00
Ravinia Wetland Mitigation		240201		464.00	
League of MN Cities					200.00
LMC - Workers' Comp Insurance		513000		200.00	
Stantec					18,489.25
Project Review Technical		578050		12,953.50	
Other Technical		578050		4,490.75	
HUC-8 Review -Floodplain Mapping		580440		1,045.00	
JASS					12,969.58
Administration		511000		6,188.89	
TAC Support		511000		1,590.89	
Annual Reporting/Work Plan		511000		3,104.60	
Website		581000		126.30	
Project Reviews		578100		1,615.28	
HUC-8 -Floodplain Mapping Admin		580430		43.92	
Plan Amendment		541500		100.96	
Education		590000		31.50	
CIPs General		563001		167.24	
TOTAL CLAIMS					32,151.25



Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Account Number:

481113-238425

ELM CREEK WATERSHED MGMT ORG

Billing Summary

Billing Date: Mar 17, 2022

Previous Balance	\$27.42
Payments - Thank You!	\$27.42
Balance Forward	\$0.00
New Charges	\$28.42

Total Amount Due **\$28.42**

Payment must be received on or before April 13, 2022

Total Amount Due

\$28.42

Due Date

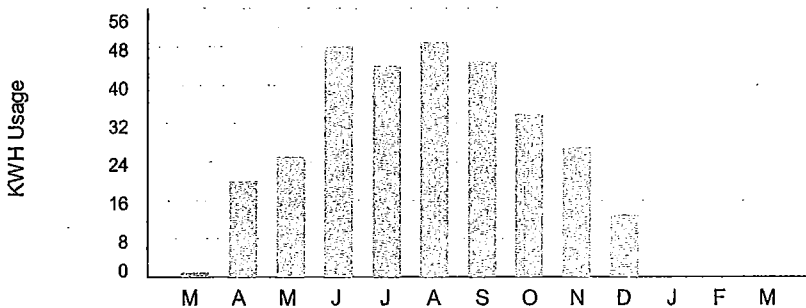
April 13, 2022

Message Center

Annual Meeting

Watch for your election ballots in the mail in early April. Your mailed packet has details on how to vote online and by mail. All members who vote will be entered into prize drawings. Election results will be announced at the Annual Meeting on April 14.

Energy Comparison Previous Months' Usage Current Month's Usage



How to contact us

Member Services / Moving - 763-323-2650
Outages and Emergencies - 763-323-2660
Hearing/Speech Impaired Call - 711 or 800-627-3529
Email: info@connexusenergy.com
www.connexusenergy.com
Gopher State One Call - 811
14601 Ramsey Boulevard, Ramsey, MN 55303

▼ Please detach at perforation and return this portion with a check or money order made payable to Connexus Energy ▼

TRA3-D-000151/000316 VG0YKH S1-ET-M1-C00001 1



Account Number:

481113-238425

Total Amount Due

\$28.42

Payment Due By

April 13, 2022



000151 1 MB 0.482 000151/000151/000316 002 02 VG0YKH
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy

PO Box 1808
Minneapolis, MN 55480-1808

00002842 0004811130238425 000000 00000 000000000000 0000002



INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Remittance address:
Lockbox 446104
PO Box 64825
St Paul, MN 55164-0825

Ms. Judie Anderson
Elm Creek Watershed Management Commission
JASS-Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

March 4, 2022

Invoice No: 23270F55.05 - 24

Total this Invoice	\$464.00
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Regarding: Elm Creek Wetland Mitigation Monitoring

This invoice is for professional services related to Elm Creek Wetland Mitigation Monitoring project, which included the following tasks:

Task 005 - 2021 Monitoring and Report

- Removing loggers for 2021 season
- Managing data

Total Budget	Current Invoice	Previously Invoiced	Total Invoiced	Remaining Budget
\$30,000.00	\$464.00	\$22,143.25	\$22,607.25	\$7,392.75

Professional Services from May 22, 2021 to February 18, 2022

Job:	001	Ravinia Wetland Mitigation
Task:	005	2021 Monitoring and Report

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Burgner, Brian	3.60	115.00	414.00	
Support Personnel II				
Nypan, Nyssa	.50	100.00	50.00	
	4.10		464.00	
Subtotal Labor				464.00
Total this Invoice				\$464.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	464.00	22,143.25	22,607.25	22,143.25	464.00

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Joe Waln, your Barr project manager at 952.832.2984 or email at jwaln@barr.com.



CONNECTING & INNOVATING
SINCE 1913

Invoice

Page 1 of 3

Member Name and Address
Elm Creek Watershed
Management Commission
3235 Fernbrook Lane North
Plymouth, MN 55447-5325

Invoice Date
03/08/2022

Agent
Arthur J Gallagher Risk Management Services Inc
3600 American Blvd W Ste 500
Bloomington, MN 55431-4502
(952)358-7500

Account Number: 10002653
Account Type Workers' Compensation Coverage Premium
Current Balance: \$ 200.00
Minimum Due: \$ 200.00
Due Date: 04/22/2022

Summary of activity since last Billing Invoice	Date	Activity	Account Balance	Minimum Due
		Previous Invoice Balance	200.00	
		Payments Received	-.00	
		Total of Transactions and Fees shown on reverse or attached	200.00	
See reverse side and attachments for additional information		Current Balance	\$ 200.00	\$ 200.00

Detach and return this Payment Coupon with your payment	Account Number 10002653	Invoice Date 03/08/2022	Due Date 04/22/2022	Current Balance \$ 200.00	Minimum Due 200.00
					Amount Enclosed \$ _____

Member Name Elm Creek Watershed Management Commission

BILLING INVOICE - Return stub with payment - make checks payable to:

Mail payment
7 days before
Due Date to
ensure timely
receipt

League of MN Cities Insurance Trust WC
c/o Berkley Risk Administrators Company
222 South Ninth Street, Suite 2700
P.O.Box 581517
Minneapolis, MN 55458-1517



CONNECTING & INNOVATING
SINCE 1913

Invoice

Page 2 of 3

		Transaction Amount	Minimum Due
Detail of activity since last Invoice	Volunteer Accident 1000926-6 Agreement Period 01/22/2022 - 01/22/2023		
	Agreement Previous Balance	\$ 0.00	
	Agreement Ending Balance	\$ 0.00	\$ 0.00
Workers' Compensation 1000927-6 Agreement Period 01/22/2022 - 01/22/2023			
	Agreement Previous Balance	\$ 0.00	
	Renewal - PR 02/28/2022	\$ 200.00	
	Agreement Ending Balance	\$ 200.00	\$ 200.00
	Total Current Balance	\$ 200.00	
	Total Minimum Due		\$ 200.00



INVOICE

Page 1 of 2

Invoice Number 1905172
Invoice Date March 30, 2022
Purchase Order --
Customer Number 167501
Project Number 227704963

Bill To

Elm Creek Watershed Management Commission
Accounts Payable
3235 Fernbrook Lane
Plymouth MN 55447
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Revisions to HUC-8 Study Model			
	Project Manager	Megow, Erik Robert	Contract Upset	45,750.00
	Current Invoice Total (USD)	1,045.00	Amount Billed to Date	1,045.00
			For Period Ending	March 25, 2022

Top Task	100	HUC-8 Study Model Revisions
Low Task	100.001	Hydrologic Model Updates

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Tourtillott, Danielle M	0.25	120.00	30.00
Megow, Erik Robert	2.00	165.00	330.00
Hoschka, Stacy Harwell (Stacy Harwell)	2.00	181.00	362.00
Schneider, Jason T	0.50	181.00	90.50
Subtotal Professional Services	4.75		812.50

Low Task Subtotal	Hydrologic Model Updates	812.50
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Low Task	100.002	Hydraulic Model Updates
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.50	165.00	82.50
Subtotal Professional Services	0.50		82.50

Low Task Subtotal	Hydraulic Model Updates	82.50
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Low Task	100.003	Memorandum and Meetings
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Gafner, Kiley	1.25	120.00	150.00
Subtotal Professional Services	1.25		150.00



INVOICE

Page 2 of 2

Invoice Number	1905172
Invoice Date	March 30, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704963

Low Task Subtotal	Memorandum and Meetings	150.00
Top Task Subtotal	HUC-8 Study Model Revisions	1,045.00
Total Fees & Disbursements		1,045.00
INVOICE TOTAL (USD)		1,045.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Page 1 of 4

Invoice Number	1905171
Invoice Date	March 30, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Bill To

Elm Creek Watershed Management Commission
Accounts Payable
3235 Fernbrook Lane
Plymouth MN 55447
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Elm Creek '22 Technical Services		
	Project Manager	Megow, Erik Robert	Contract Upset
	Current Invoice Total (USD)	17,444.25	Amount Billed to Date
			For Period Ending
			March 25, 2022

Top Task	100	2022 Prereviews and General Inquiries
Low Task	100	2022 Prereviews and General Inquiries

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Mullen, Ross S	0.75	165.00	123.75
Subtotal Professional Services	0.75		123.75

Low Task Subtotal	2022 Prereviews and General Inquiries	123.75
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Top Task Subtotal	2022 Prereviews and General Inquiries	123.75
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Top Task	200	2022 Project Reviews
Low Task	200.2021.050	Evanswood

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Truong, Kaitlen Nguyen (Kaitlin)	4.00	120.00	480.00
Wochenske, Jordan	2.75	124.00	341.00
Mullen, Ross S	9.75	165.00	1,608.75
Subtotal Professional Services	16.50		2,429.75

Low Task Subtotal	Evanswood	2,429.75
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Low Task	200.2021.055	Morningside Estates 6th Addition
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Truong, Kaitlen Nguyen (Kaitlin)	4.00	120.00	480.00
Fesenmaier, Mark Gregory	1.75	124.00	217.00
Mullen, Ross S	4.75	165.00	783.75
Weigel, Eileen J	1.00	165.00	165.00



INVOICE

Page 2 of 4

Invoice Number	1905171
Invoice Date	March 30, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Subtotal Professional Services	11.50	1,645.75
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Low Task Subtotal	Morningside Estates 6th Addition	1,645.75
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Low Task	200.2022.002	Summerwell Maple Grove
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Fesenmaier, Mark Gregory	0.50	124.00	62.00
Megow, Erik Robert	0.75	165.00	123.75
Mullen, Ross S	4.50	165.00	742.50
Subtotal Professional Services	5.75		928.25

Low Task Subtotal	Summerwell Maple Grove	928.25
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Low Task	200.2022.003	Fox Briar Ridge East
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Truong, Kaitlen Nguyen (Kaitlin)	8.00	120.00	960.00
Megow, Erik Robert	4.50	165.00	742.50
Mullen, Ross S	2.00	165.00	330.00
Subtotal Professional Services	14.50		2,032.50

Low Task Subtotal	Fox Briar Ridge East	2,032.50
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Low Task	200.2022.006	Hamel Townhomes
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Zhang, Lu	10.25	135.00	1,383.75
Megow, Erik Robert	0.75	165.00	123.75
Mullen, Ross S	1.75	165.00	288.75
Subtotal Professional Services	12.75		1,796.25

Low Task Subtotal	Hamel Townhomes	1,796.25
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Low Task	200.2022.008	Bechtold Farm
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	1.25	165.00	206.25
Mullen, Ross S	0.25	165.00	41.25



INVOICE

Page 3 of 4

Invoice Number	1905171
Invoice Date	March 30, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Subtotal Professional Services	1.50	247.50
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Low Task Subtotal	Bechtold Farm	247.50
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Low Task	200.2022.009	Dunkirk Lane
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Zhang, Lu	9.50	135.00	1,282.50
Megow, Erik Robert	2.50	165.00	412.50
Mullen, Ross S	0.50	165.00	82.50
Subtotal Professional Services	12.50		1,777.50

Low Task Subtotal	Dunkirk Lane	1,777.50
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Low Task	200.2022.011	Arrowhead Drive Turn Lane Expansion
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Fesenmaier, Mark Gregory	10.25	124.00	1,271.00
Megow, Erik Robert	4.50	165.00	742.50
Subtotal Professional Services	14.75		2,013.50

Low Task Subtotal	Arrowhead Drive Turn Lane Expansion	2,013.50
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Low Task	200.2022.013	Dayton 94 Industrial Site
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.50	165.00	82.50
Subtotal Professional Services	0.50		82.50

Low Task Subtotal	Dayton 94 Industrial Site	82.50
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Top Task Subtotal	2022 Project Reviews	12,953.50
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Top Task	300	Meetings
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Low Task	300	Meetings
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	4.00	165.00	660.00
Mullen, Ross S	7.75	165.00	1,278.75



INVOICE

Page 4 of 4

Invoice Number	1905171
Invoice Date	March 30, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Spector, Diane F	3.25	187.00	607.75
Subtotal Professional Services	<u>15.00</u>		<u>2,546.50</u>

Low Task Subtotal	Meetings	2,546.50
Top Task Subtotal	Meetings	2,546.50

Top Task	400	Other Technical Services
Low Task	400.4000.001	General

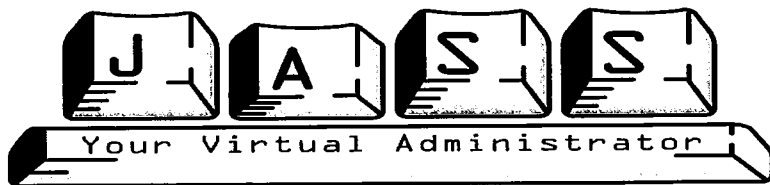
Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	1.50	165.00	247.50
Mullen, Ross S	0.75	165.00	123.75
Spector, Diane F	7.75	187.00	1,449.25
Subtotal Professional Services	<u>10.00</u>		<u>1,820.50</u>

Low Task Subtotal	General	1,820.50
Top Task Subtotal	Other Technical Services	1,820.50

Total Fees & Disbursements	17,444.25
INVOICE TOTAL (USD)	<u>17,444.25</u>

Due upon receipt or in accordance with terms of the contract



3235 Fernbrook Lane
Plymouth MN 55447

Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

6-Apr-22

Total by
Project Area

Administrative	0.830	65.00	53.95	
Administrative	40.640	70.00	2,844.80	
Admin - virtual	4.800	75.00	360.00	
Office Support	12.00	200.00	2,400.00	
Storage Unit	1.00	169.67	169.67	
Admin - Reimbursable Expense	360.47	1.00	360.47	6,188.890
Admin - TAC support		65.00	0.00	
Admin - TAC support	17.26	70.00	1,208.20	
Admin - TAC support virtual	4.43	75.00	332.25	
TAC Support - Reimbursable Expense	50.44	1.00	50.44	1,590.890
Website		65.00	0.00	
Website	1.34	70.00	93.80	
Web Domain, hosting	32.50	1.00	32.50	126.300
Annual Reporting/Work Plans	43.25	70.00	3,027.50	
Annual Reporting/Work Plan - Reimbursable Expense	77.10	1.00	77.10	3,104.600
Project Reviews - Admin	13.98	70.00	978.60	
Project Reviews - Admin Specific	8.14	70.00	569.80	
Project Reviews - Admin - File Mgmt		65.00	0.00	
Project Reviews - Reimbursable Expense	66.88	1.00	66.88	1,615.280
Floodplain Mapping - Admin	0.35	70.00	24.50	
Floodplain Mapping - reimbursable	19.42	1.00	19.42	43.920
Education - Secretarial		65.00	0.00	
Education - Admin		70.00	0.00	
Education - Admin virtual - Blue Thumb Partner Event	0.420	75.00	31.50	
Education - Reimbursable Expense		1.00	0.00	31.500
CIPs - General - Secretarial		65.00	0.00	
CIPs - Administrative	2.16	70.00	151.20	
CIPs- Offsite Admin		75.00	0.00	
CIPs - reimbursables	16.04	1.00	16.04	167.240
Plan Amendment - Admin	1.43	70.00	100.10	
Plan Amendment - Offiste		75.00	0.00	
Plan amendment - reimbursable	0.86	1.00	0.86	100.960

Invoice Total

12,969.580

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

Morningside Estates 6th Addition Champlin Project #2021-055

Project Overview:

Location: Champlin, MN just north of French Lake Road. The project review is divided into two separate geographies: 1) a set of five single family homes along Valley Forge Lane N at the NW corner of the intersection of Valley Forge Ln N and French Lake Road and 2) a set of two homes on the Northwest side of the Oaks at Bauer Farm project site, just south the Yorktown Lane North cul-de-sac.

Purpose: Construction of seven (7) single family homes

WMC Rules Triggered:

X	Rule D	Stormwater Management
X	Rule E	Erosion and Sediment Control
	Rule F	Floodplain Alterations
X	Rule G	Wetland Alteration
	Rule H	Bridge and Culvert Crossings
	Rule I	Buffer Strips

Applicant: RC Land Corporation

Address: 217 Dean Ave East Champlin, MN
55316

Attention: Bill Ramsay

Phone: 763-712-5325

Email: bramsay@ramsaydev.com

Agent: Sathre-Bergquist, Inc

Address: 150 South Broadway
Wayzata, MN 55316

Attention: Eric Johnson

Phone: 952-476-6000

Email: ejohnson@sathre.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	December 9, 2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	December 9, 2021
	<input checked="" type="checkbox"/> City authorization: Champlin, MN	December 7 2021
	<input checked="" type="checkbox"/> Review fee: \$3,375	December 9, 2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	December 21, 2021

Submittals

1. Morningside Construction Plans, prepared by Sathre-Bergquist, Inc dated December 2, 2021; revised January 11, 2021 [sic / 2022]
 - a. Construction drawing details
 - b. Erosion and Control sheet SWPPP
 - c. Grading Plan revised March 4, 2022; March 8, 2022; March 9, 2022; March 29, 2022
2. Elm Creek Watershed Management Commission Request for Plan Review and Approval

3. Stormwater Management Plan of The Oaks at Bauer Farms, prepared by Pioneer Engineering dated February 24, 2021; Revised May 10, 2021 and July 27, 2021; revised by AE2S on November 30, 2021; January 6, 2022
 - a. Stormwater narrative
 - b. Existing Conditions Drainage Map
 - c. Proposed Conditions Drainage Map
 - d. MIDS Calculator Model
 - e. Geotechnical Exploration and Engineering Review
4. Morningside Estates 6th Addition draft plat prepared by Sathre-Berquist. Undated
5. Stormwater Management Plan-Morningside Estates 6th Addition, prepared by AE2S dated November 18, 2021, revised December 7, 2021.
6. The Oaks at Bauer Farm final Storm Sewer Construction Plan sheet 4.17, prepared by Pioneer Engineering dated June 18, 2021, provided by the City of Champlin
7. Golf View Manor Street Profile Storm Sewer Yorktown Lane construction drawings prepared by Hedlund Planning, Engineering, and Surveying dated February 10, 1994, provided by the City of Champlin
8. Existing and Proposed HydroCAD models, prepared by AE2S dated January 21, 2022
9. *Comprehensive Drainage Figures*, prepared by AE2S dated January 21, 2022; revised February 22, 2022
10. *The Oaks at Bauer Farm and Morningside 6th Addition Comprehensive Rate and High-Water Analysis*, prepared by AE2S dated January 21, 2022
11. *Bauer Berry Farm Geotechnical Report*, prepared by Haugo GeoTechnical Services dated November 1, 2019 (submitted a second time on February 17, 2022, and a third time on March 1, 2022)
12. *Bauer Berry Soil Markup* prepared by AE2S dated March 1, 2022
13. *Hayden Hills Geotechnical Report*, prepared by Haugo GeoTechnical Services dated October 19, 2017
14. *Hayden Hills Soil Boring Markup* prepared by AE2S dated March 1, 2022
15. *Riley-Purgatory-Bluff Creek Watershed District Rules* annotated with comments, submitted Sathre-Berquist on February 17, 2022

Findings

General

1. A complete application was received December 21, 2021. The initial 60-day decision period per MN Statute 15.99 expired February 19, 2022. It was extended an additional 60-days to April 20, 2022.
2. The proposed Morningside Estates 6th Addition includes construction of seven (7) new single-family homes and associated utilities and stormwater management systems consisting of one infiltration basin. The proposed Morningside Estates 6th Addition includes construction in two separate geographies:
 - a. Five single family homes are proposed to be constructed on a 2.19-acre parcel along Valley Forge Lane N at the northwest corner of the intersection of Valley Forge Ln N and French Lake Road "Southeast Five Parcels" and
 - b. Two homes are proposed to be constructed on the northwest side of the Oaks at Bauer Farm project site on a 0.93-acre parcel, just south the Yorktown Lane North cul-de-sac "Northwest Two Parcels".

3. The development (both geographies together) will disturb 2.8 acres and create or reconstruct 0.8 acres of impervious, 0.6-acres of which is net, new impervious area.
4. *Southeast Five Parcels (combined parcel and public right-of-way size of 2.19-acres)*
 - a. The existing drainage pattern of the southeast five parcels is to a low point located at the northwest corner of the parcels.
 - b. The proposed drainage pattern matches the existing drainage pattern.
 - c. The applicant proposes an infiltration basin with connection to the Oaks at Bauer Farms storm sewer, which drains to a pond and infiltration area (named #200) in the Oaks at Bauer Farm development.
5. *Northwest Two Parcels (combined parcel and public right-of-way size of 0.93-acres)*
 - a. The existing drainage pattern of the site is functionally land-locked. Approximately 5-acres of drainage from Yorktown Lane North drains to the south via storm sewer to a two-cell infiltration basin over sandy soils. The basins are connected to one-another have no piped outlet.
 - b. HydroCAD modeling prepared by AE2S dated January 21, 2022, shows only 0.2-cfs from the basins draining toward the Oaks at Bauer Farms site during the 100-year.
 - i. The northern of the two basins has a bottom at approximately 864.0-feet
 - ii. The southern of the two basins has a bottom at approximately 862.0-feet.
 - c. The proposed drainage pattern fills the southern cell of the basin to construct the two home sites. The project proposes to connect the northern cell to the Oaks at Bauer Farms storm sewer, which drains to a pond and infiltration area (named #400).
 - d. No new BMP is proposed for these two parcels, the applicant (RC Land Corporation) proposes to connect to a storm sewer stub that routes flow to the Oaks at Bauer Farms stormwater Pond and Infiltration Area #400 (as named in the Oaks at Bauer Farm development constructed by Jonathan Homes) to meet the Commission's requirements around rate control, water quality, and volume control design.
 - e. The Oaks at Bauer Farm BMP's were not designed for the drainage area from the Morningside Estates 6th Addition Project.
 - i. The Oaks at Bauer Farm March 2021 construction drawings approved by the Commission did not include a storm sewer stub for the Morningside Estates 6th Addition connection.
 - ii. Elm Creek technical staff discussed the project with the Oaks at Bauer Farm project developer and the city of Champlin in July 2021, the developer and city indicated the design had not changed.
 - iii. The Oaks at Bauer Farms BMP's were not designed to provide rate control, water quality, and volume control for the 5-acres draining from Morningside Estates and the "unlocked" (no longer land-locked) area from Yorktown Lane North.
6. Soil borings indicate poorly graded sandy soils at the project the site, which is conducive to infiltration which is a preferred method of volume control.
7. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings within the site.

Rule D – Stormwater Management (plans)

General

1. The project will disturb 2.8 acres of the total 3.12-acre parcels (2.19-acres +0.93-acres) The new impervious area will be 0.8 acres, 0.6 acres of which is net, new impervious.
2. Soil borings show poorly graded sands, which are Hydrologic Soil Group Type A (high infiltration capacity/low runoff potential) and conducive to infiltration.

Rate Controls

1. The applicant provided HydroCAD models, prepared by AE2S dated January 21, 2022, for the two development areas that show how the increase in runoff rates for the 2-year, 10-year, and 100-year events to the Oaks at Bauer Farms do not create downstream impacts. The models also show how total discharge rates from Oaks at Bauer and Morningside Estates 6th Addition to city storm sewer beneath French Lake Road is still within the allocated max discharge rate for the downstream regional pond.
2. *Southeast Five Parcels (combined parcel and public right-of-way size of 2.19-acres)*
 - a. The applicant proposes an infiltration basin with connection to the Oaks at Bauer Farms storm sewer, which drains to pond #250 and infiltration area #200 in the Oaks at Bauer Farm development.
 - b. The Southeast Five Parcels **runoff rates increase** to the Oaks at Bauer development; however, the rate increases are minor and do not cause impacts on downstream waterbodies. The City (Heather Nelson) has confirmed that the rate increases are acceptable. (See Table 1).
3. *Northwest Two Parcels (combined parcel and public right-of-way size of 0.93-acres)*
 - a. The applicant proposes to use the Oaks at Bauer Farms pond and infiltration BMP's to meet the Commission's rate control requirements. The applicant submitted a HydroCAD model that includes the Northwest Two Parcels and Yorktown Lane Drainage Area, which drains to stormwater Pond and Infiltration Area #400 (as named in the Oaks at Bauer Farm development constructed by Jonathan Homes), and then ultimately drains to a pond #250 and infiltration area #200 in the Oaks at Bauer Farm development.
 - b. The Northwest Two Parcels **runoff rates increase** to the Oaks at Bauer development. The increased rates to pond and infiltration area #400 will bounce the pond an additional 0.1' from previously approved conditions. Pond #400 previously bounced to 859.22 and will now bounce to 859.32, but the adjacent proposed homes within the Oaks at Bauer development have at least two feet of freeboard with the lowest floor at 862.8. This will meet the Commission low-floor requirements. The City (Heather Nelson) has confirmed that the rate and bounce increases are acceptable (See Table 2).
4. *Total discharge rates from Oaks at Bauer and Morningside Estates 6th Addition to city storm sewer beneath French Lake Road*
 - a. The applicant has provided a HydroCAD Model showing that the rate increases to the Oaks at Bauer Farm development do not create impacts on downstream waterbodies. The Southeast Five Parcels and Northeast Two Parcels show increase peak flows to the

Oaks at Bauer development, which both drain to Pond 250. Pond 250 ultimately discharges to a regional pondset (See Figure 7).

- b. The HydroCAD model shows the peak flow from 250P, which drains to the city storm sewer beneath French Lake Road is **below the planned allocated peak discharge** to the City's Regional Pond (See Table 3).

Table 1 Southeast Five Parcels Rate Control

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
North/West Discharge toward Oaks at Bauer Farm BMP #200	Pre-Project	0.0	0.2	2.6
	Proposed	0.0	0.1	0.7
	Change	0.0	-0.1	-1.9
South/East toward French Lake Road/Valley Forge Lane Intersection	Pre-Project	0.0	0.1	0.7
	Proposed	0.1	0.7	2.4
	Change	+0.1	+0.6	+1.7

Table 2 Northwest Two Parcels Rate of Discharge Leaving Site ¹

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Inflow to 131st Avenue North	Pre-Project	0.0	0.0	0.2
	Proposed	0.5	1.2	3.0
	Change	+0.5	+1.2	+2.8

¹ECWMC technical staff added overland flow paths to these models at Valley Forge Depression 1 and Pond Valley Forge Depression 2

Table 3 Total Discharge from Oaks at Bauer and Morningside Estates 6th Addition to City Storm Sewer beneath French Lake Road¹

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Site Total	Proposed	0.2	1.1	9.4
Allocation to Regional Pond from combined Morningside and Oaks at Bauer Farm Sites to Regional Pond²			12.4	

¹ Subtle changes in the timing of the runoff hydrograph from the South/East discharge toward the French Lake Road/Valley Forge Lane Intersection explain the reduction in peak

² As documented in the City of Champlin's Northwest Area Feasibility Study (September 2005) and email from WSB/City staff on April 26, 2021

Abstraction (Volume) Control

1. In aggregate, the projects Northwest 2 Parcels and Southeast 5 Parcels **meets the Commission's standards** regarding Abstraction (Volume) Controls in aggregate.
2. The site will create 0.6 acres of net, new impervious areas require abstraction of 2,396 cf (0.055 acre-feet).
3. The applicant proposes to use infiltration to meet the Commission's volume control.
4. An abstraction volume of 6,222 cf (0.143 acre-feet) is provided, all at the southeast five parcel geography.

Water Quality

1. In aggregate, the project's Northwest 2 Parcels and Southeast 5 Parcels **meets the Commission's standards regarding Water Quality in aggregate.**
2. The applicant proposes to use infiltration to meet the Commission's volume control. Per Commission rules, the applicant is not required to submit a water quality analysis if infiltration of 1.1-inches from impervious surfaces is used to meet volume control requirements.
3. The two separate project sites mean that overtreatment is provided at the Southeast Five Parcels and a reduction of treatment is expected at the Northwest Two Parcels.
 - a. *Southeast Five Parcels (combined parcel and public right-of-way size of 2.19-acres)*
 - i. Full infiltration of 1.1 inches of runoff from impervious areas is feasible with high infiltration capacity soils.
 - ii. Pretreatment is provide by the overland flow swale routing runoff to the infiltration basin.
 - b. *Northwest Two Parcels (combined parcel and public right-of-way size of 0.93-acres)*
 - i. No treatment is proposed at this location. Overtreatment is provided for the southeast five parcels.

Low Floor Elevations

1. *Southeast Five Parcels (parcel and public right-of-way size of 2.19-acres)*
 - a. The modeled 100-year stage of the proposed infiltration basin (AE2S, September 28, 2021) is 861.8-feet, with a design EOF of 864.3-feet and a proposed low basement floor of 866.6-feet. **This meets the Commission standards** for two feet of freeboard and that the low floor shall be at least one foot above the EOF.
2. *Northwest Two Parcels (parcel and public right-of-way size of 0.93-acres)*
 - a. The proposed low floors of Lots #1 and #2 are 865.6 and 866.6-feet, respectively.
 - b. The pond outlet of the remaining pond is 867.0-feet, which 1.4 feet above Lot #1 and 0.4-feet above Lot #2.
 - c. A ridge at approximately 869.0-feet separates the remaining stormwater pond, which is to be regraded to at least 872.0- feet. The low point in this grading will function as the EOF and is directed toward the street (away from the houses)
 - d. The modeled 100-year stage of the remaining stormwater pond (AE2S, January 21, 2022) is 867.9-feet, with an overland flow path over the ridge, that functions as the EOF, at

approximately 872.1-feet. The structures are between 40 and 50-feet away from the high-water inundation level.

- e. Neither of the structures meet the Commission standards for two feet of freeboard or that the low floor shall be at least one foot above the EOF and is below the normal water level of the adjacent pond.
- f. The applicant proposed to use the Riley-Purgatory-Bluff Creek groundwater mounding analysis to demonstrate the minimal flood risk to the northwest two parcels.
 - i. The applicant used groundwater borings collected in November 2019 and October 2017 for this analysis. We expect that late-fall to mid-winter groundwater study is unrepresentative of typical seasonal high groundwater levels.
 - ii. The applicant used a November boring approximately 450-feet south from the proposed structures that shows regional groundwater levels at approximately 854.0-feet (November 2019), which is approximately 12-feet below the structures. This boring is too far away from the proposed parcels to be considered representative. Additionally, the boring reflects a late fall condition, which is expected to coincide with the seasonal low. The applicant also submitted borings from the Hayden Hills golf course to the east of the site from October 2017 showing a groundwater table of approximately 853.2-feet.
 - iii. A boring approximately 400-feet east from Lot #2 shows the regional groundwater levels at approximately 855.0-feet (November 2019).
 - iv. The analysis shows that the mounded groundwater could be up to 8.5-feet above the regional groundwater level at 40 to 50-feet away (3.5-feet below the structures).
 - v. The use of two borings, collected in late fall (expected to coincide with the seasonal low groundwater level), hundreds of feet away from the project site, and with a limited historical groundwater table record was insufficient to the Commission's consultant to demonstrate that the structures have adequately mitigated flood risk. Rodent burrows, tree roots, and even utility lines may provide conduits for groundwater to reach the foundations of these structures.
 - vi. The applicant worked with the Commission's consultant to revise the EOF toward the street and to construct a rock, groundwater interception trench between the homes and the stormwater pond (See Figure 8). This trench includes drain tile to route groundwater to the east toward an Oaks at Bauer Farm basin and includes an impermeable liner on the homes side of the trench to ensure no groundwater reaches the structures. **With these revisions, the structures are deemed reasonably safe from flooding.**

3. Existing Oaks at Bauer Farms Structures

- a. Structures constructed as part of the Oaks at Bauer Farm development must continue to meet the Commission's standards regarding freeboard. These structures, in the Oaks at Bauer Farm construction drawings, are:
 - i. *Pond and Infiltration Area #400* (Northwest 2 Parcels discharge location) increases by 0.1-feet in the 100-year. Structures surrounding this feature continue to have at least two feet of freeboard. **This meets the Commission standards.**
 - ii. *Wetland #1* (MNDNR Public Waters ID 27022400, discharge feature from *Pond and Infiltration Area #400*) increases by 0.1-feet in the 100-year. Structures

surrounding this feature continue to have at least two feet of freeboard. **This meets the Commission standards.**

- iii. *Pond and Infiltration Area #200* (Southeast 5 Parcels discharge location) decreases by 0.1-feet in the 100-year. Structures surrounding this feature continue to have at least two feet of freeboard. **This meets the Commission standards.**

Operation and Maintenance

For residential projects with infiltration systems in the city of Champlin, the landowner is responsible for the maintenance of the stormwater management BMP's. Stormwater maintenance agreement(s) with the city will be a condition of this approval.

1. *Southeast Five Parcels* (parcel and public right-of-way size of 2.19-acres)
 - o A stormwater maintenance agreement with the city will be a condition of this approval for the five structures at the southeast of the Morningside Estates 6th Addition to operate and maintain Basin 1-V.
2. *Northwest Two Parcels* (parcel and public right-of-way size of 0.93-acres)
 - o Because the northwest two parcels remove existing treatment from the stormwater system, an additional O&M agreement may be required for Infiltration Basin #400 in the Oaks at Bauer Farm property. If the two parcels are part of a separate governance structure than the parcels included in the Oaks at Bauer Farm development, an inter-HOA/inter-community stormwater agreement may be necessary. The developers shall work with the city to determine if such an agreement is required.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meets** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Erosion control blanket
 - b. Silt fence around project extents and the pond
 - c. Concrete washout is located to minimize the risk of concrete waste discharge to waterbodies
 - d. Catch basin inlet protection.

Rule G – Wetland Alterations

1. **Wetland alterations meet the Commission's requirements.**
2. The city of Champlin is the LGU in charge of administering the Minnesota Wetland Conservation Act (WCA) and a Wetland Decision form may be required.
3. No wetlands are proposed to be disturbed as part of construction.
4. There is a hydrologic change (an increase in runoff rate/inflow) flowing to the center wetland (named Wetland 1# on Oaks at Bauer Farm construction drawings, MNDNR ID 27022400) on-site for the 2-, 10-, and 100-year storms. Wetland 1# on Oaks at Bauer Farm construction drawings, (MNDNR ID 2702240) is classified a Type 1 wetland. The hydrologic changes (increase of 0.1-feet during the 10-year) are consistent with MNRAM hydrologic guidelines no adverse impact to the wetland hydrologic function.

Recommendation

Conditional Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. O&M agreements with the city and with the Oaks at Bauer Farm HOA are filed with terms acceptable to the Commission.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



April 5, 2022

Date

- | | |
|----------|-------------------------------------------|
| Figure 1 | Project General Location |
| Figure 2 | Project Close Up Location |
| Figure 3 | Existing Drainage Map |
| Figure 4 | Proposed Drainage Plan |
| Figure 5 | Erosion Control Map (Southeast 5 Parcels) |
| Figure 6 | Erosion Control Map (Northwest 2 Parcels) |
| Figure 7 | Regional Ponds |

Figure 1 Project General Location

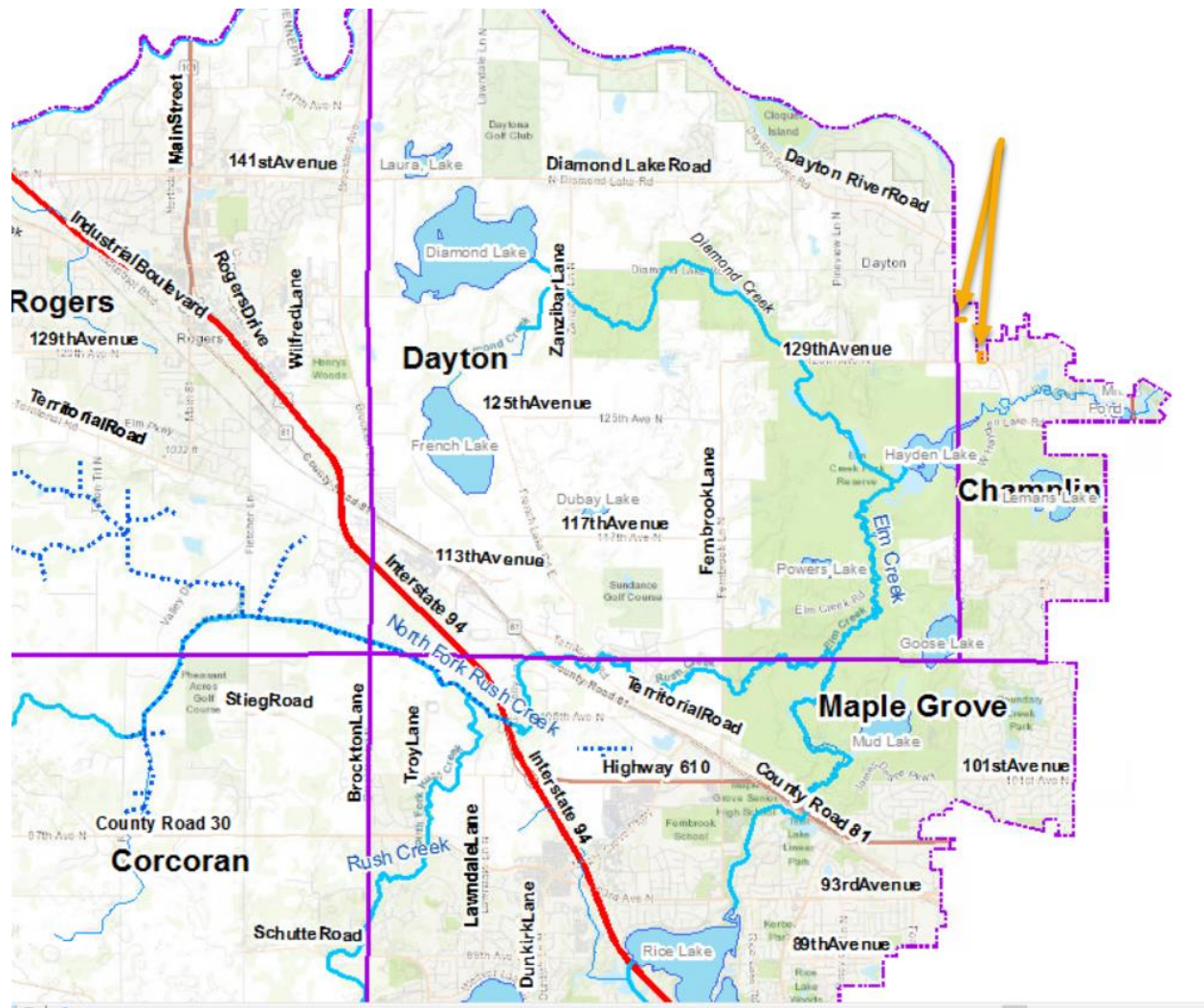


Figure 2 Project Close Up Location

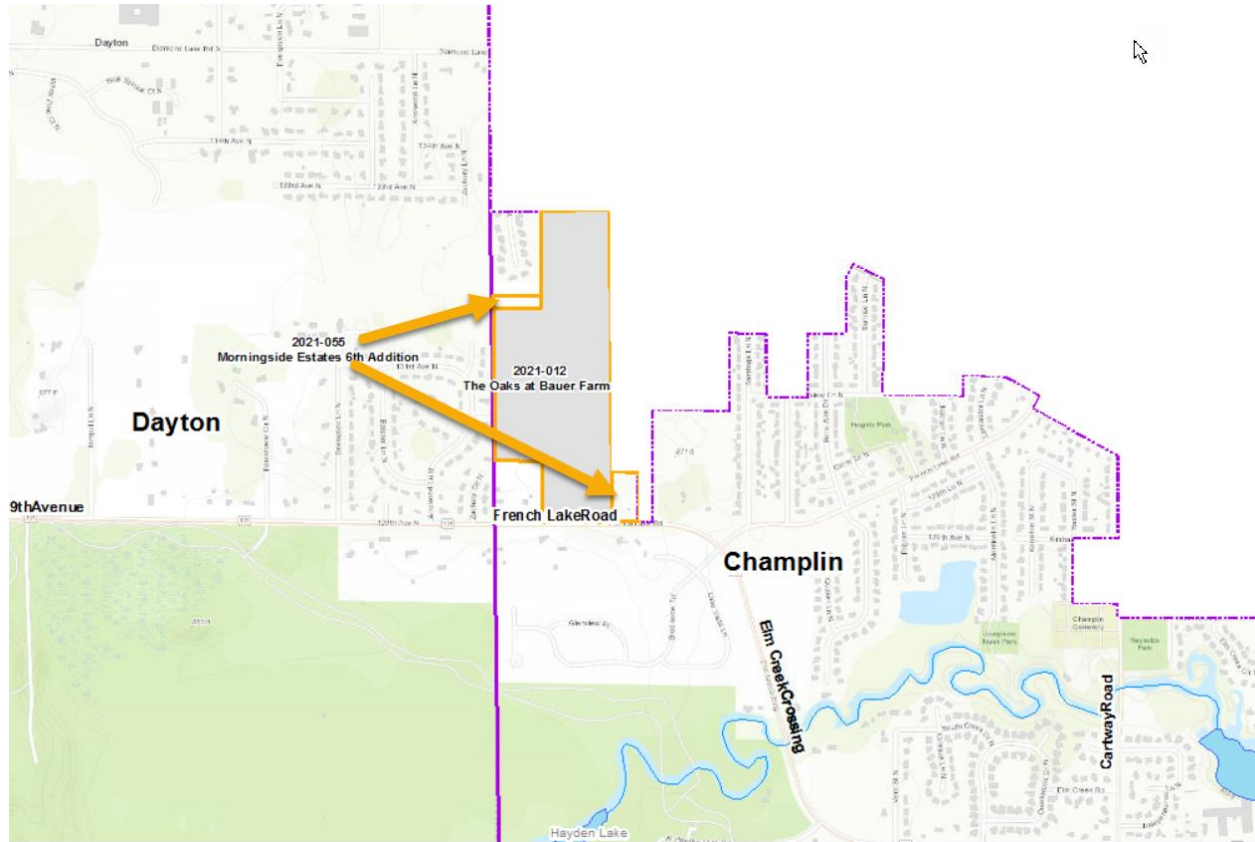


Figure 3 Existing Drainage Map

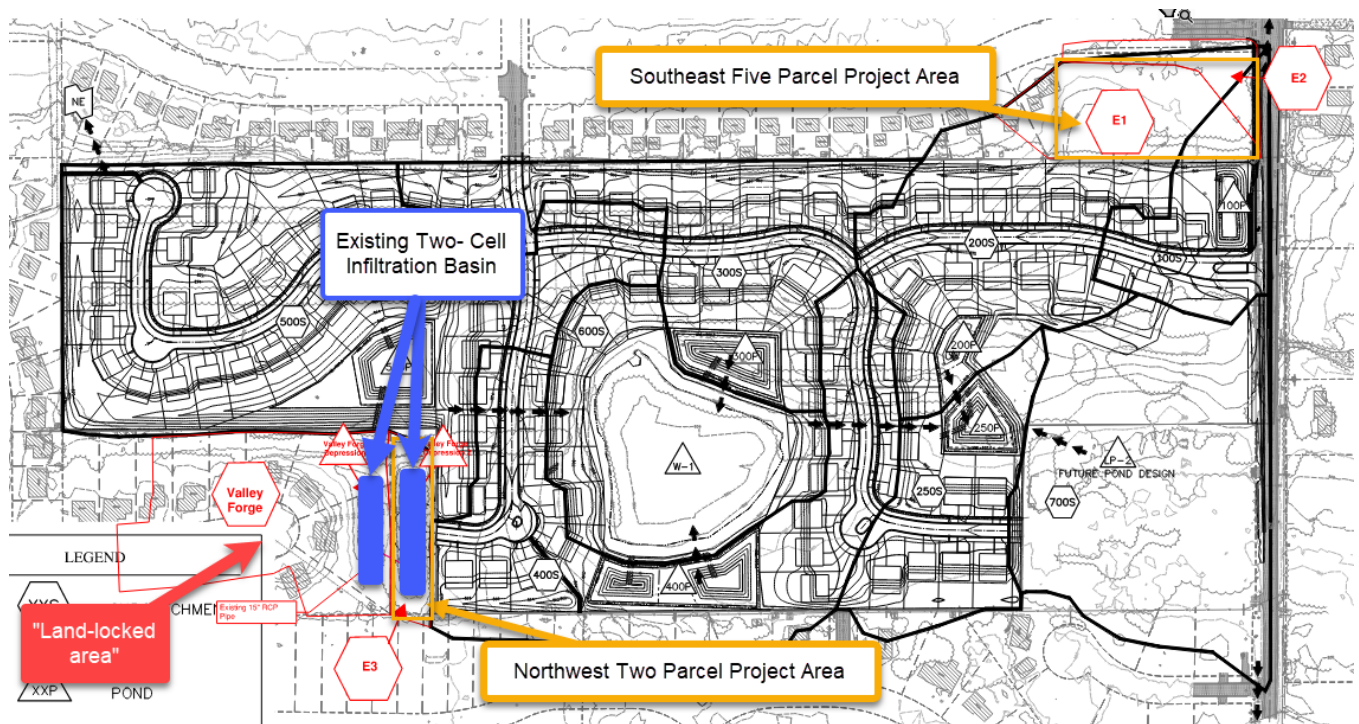


Figure 4 Proposed Drainage Plan

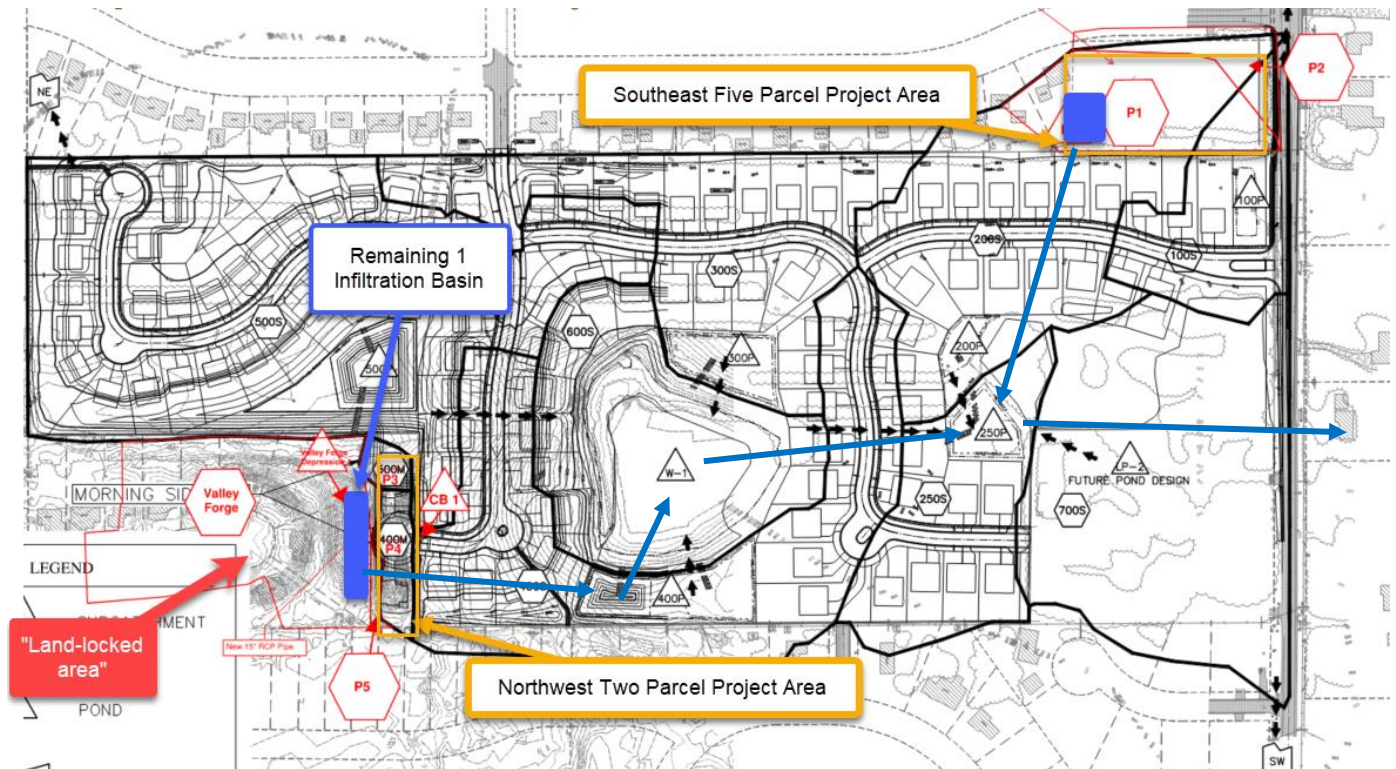


Figure 5 Erosion Control Map (Southeast 5 Parcels)

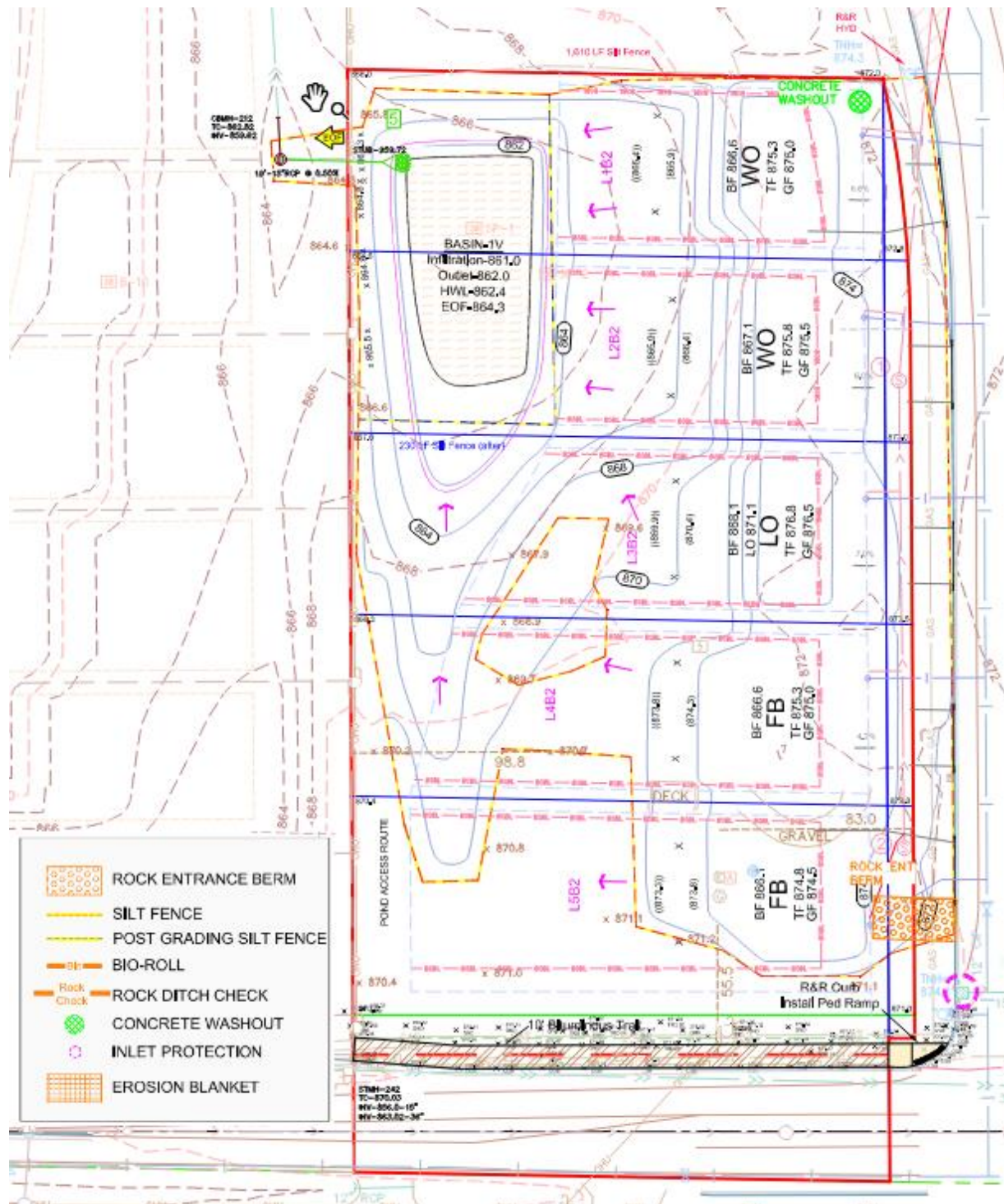


Figure 6 Erosion Control Map (Northwest 2 Parcels)

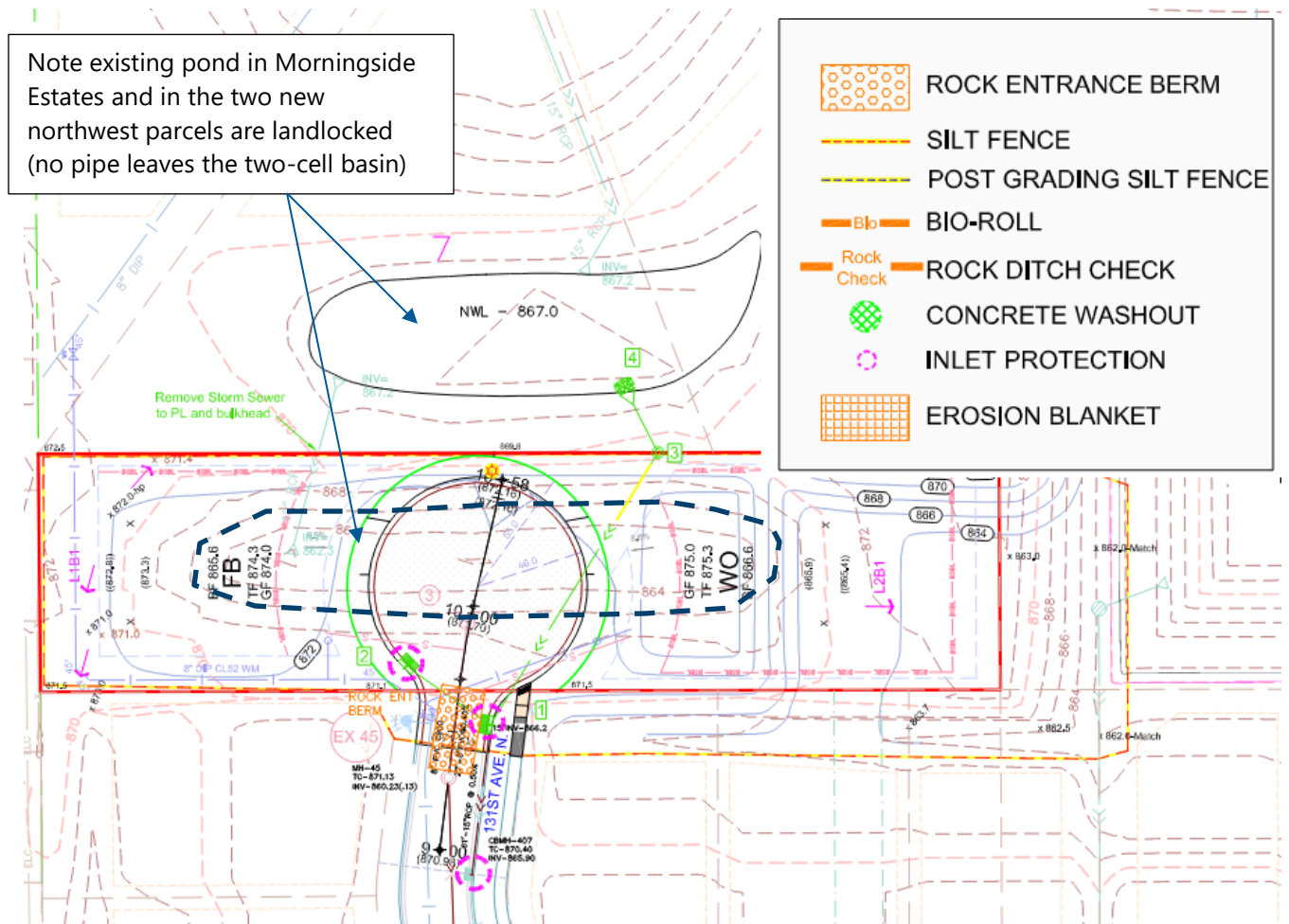


Figure 7 Regional Ponds

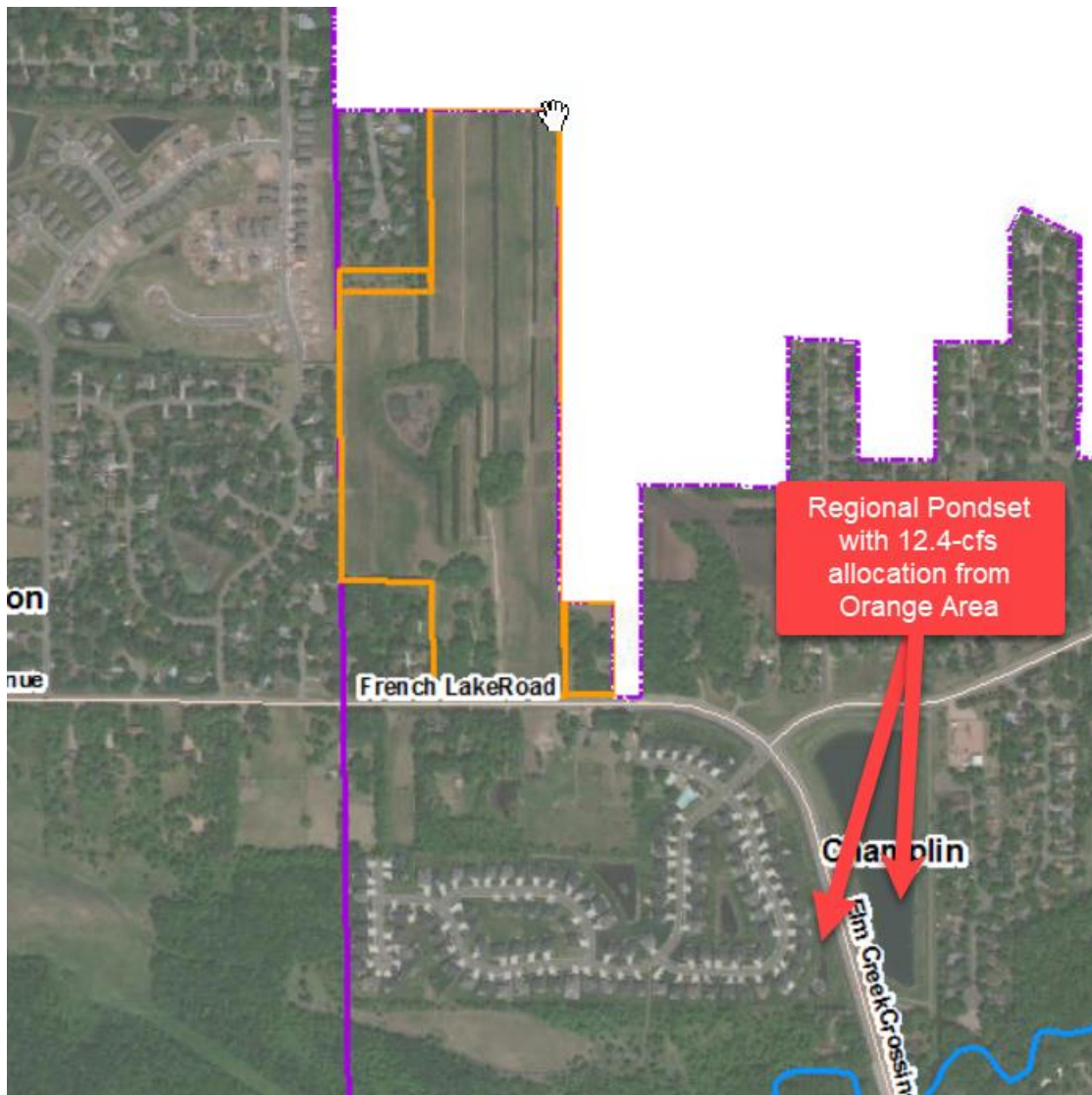
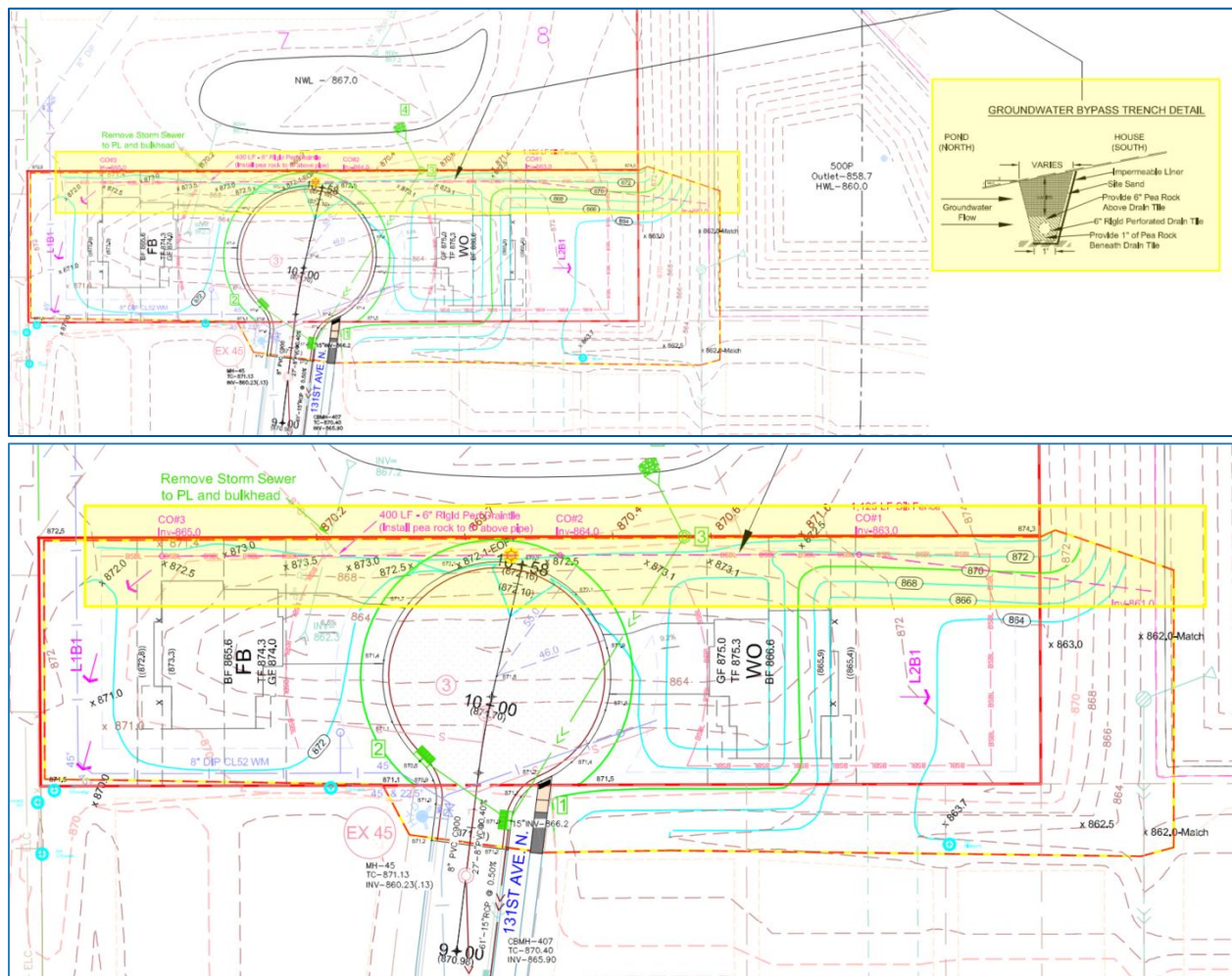


Figure 8 Groundwater Bypass Trench Detail and Drainile



elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

Fox Briar Ridge East Maple Grove Project #2022-003

Project Overview:

Location: Maple Grove, MN abuts to Bass Lake Road and connects to 70th St N to the West and Weston Lane to the South

Purpose: Development of 8 twin homes and 1 single family home with associated sidewalks, roads, and stormwater infrastructure

WMC Rules Triggered:

X	Rule D	Stormwater Management
X	Rule E	Erosion and Sediment Control
	Rule F	Floodplain Alterations
	Rule G	Wetland Alteration
	Rule H	Bridge and Culvert Crossings
	Rule I	Buffer Strips

Applicant: Donnay Homes

Address: 9655 63rd Ave North, Maple Grove, MN 55369

Attention: Paul Donnay

Phone: (763)531-0714

Email: Paul@donnayhomes.com

Agent: Alliant Engineering

Address: 733 Marquette Avenue Suite 700, Minneapolis, MN, 55402

Attention: David Nash

Phone: (612)767-9327

Email: dnash@alliant-inc.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	February 7, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	January 6, 2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	February 2, 2022
	<input checked="" type="checkbox"/> Review fee: \$3,375	February 7, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	February 7, 2022

Submittals

1. Stormwater Management Hydrologic and Hydraulic Study, dated January 10, 2022, prepared by Alliant Engineering, revised March 1, 2022, revised March 22, 2022.
 - a. Stormwater Narrative
 - b. Existing and Proposed HydroCAD models
 - c. Existing and Proposed Conditions P8 water quality model
 - d. Biofiltration Basin Volume Summary
 - e. Storm sewer design spreadsheet

- f. Geotechnical Evaluation Report, dated November 2021, prepared by Haugo Geotechnical Services
2. Construction Drawings, dated January 6, 2022, prepared by Alliant Engineering, revised February 4, 2022, March 1, 2022, March 17, 2022, and March 25, 2022.

Findings

General

1. A complete application was received February 7, 2022. The initial 60-day decision period per MN Statute 15.99 expires April 9, 2022. The decision period was extended for an additional 60 days on April 5, 2022, and now the decision period expires on June 7, 2022.
2. The existing 4.44-acre parcel contains 0.13-acres of impervious surfaces as a house, barn, while the remainder of the site is open field with good grass cover, a large, wooded area, and approximately 0.24 acres of the site is a city regional storm pond. The site currently drains to the existing regional storm pond in the southeast corner of the site.
3. The proposed construction includes 8 twin homes and 1 single family home as well as associated sidewalks, roads, and utilities with a disturbance of 4.20-acres.
4. The development will create 1.81 acres of impervious area, 1.68-acres of which is net, new impervious.
5. A filtration bench will be constructed on the existing stormwater pond to meet the water quality and abstraction requirements. Most of the site will be routed to this basin.
6. Soil borings indicate clayey soils as underlying soils throughout the site. To overcome the constraints of the site being in clay soil, the filtration area will incorporate a minimum of 1.5' of MPCA Mix C and contain a relief drain tile and cleanout for maintenance purposes.
7. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings within the site.

Rule D – Stormwater Management

General

1. The project will disturb 4.20 acres of a 4.44-acre parcel. The impervious area will be 1.81 acres, 1.68 acres of which is net, new impervious.
2. Soil boring logs indicate sandy lean clay, silty clay, and lean clay.
3. These underlying soils are predominantly Hydrologic Soil Group Type D (low infiltration capacity). Groundwater was not encountered during boring.
4. Stormwater will be managed on the site through the construction of a new biofiltration basin to provide abstraction controls and water quality and an existing regional stormwater pond will provide rate control.
5. Through conversations with the City of Maple Grove (Derek Asche), it was confirmed that the regional basin was sized to provide rate control for the proposed development.

Low Floor Elevations

1. The modeled 100-year stage of the proposed filtration bench is 928.11-feet, with an existing pond EOF of 927.8-feet and a proposed low basement floor of 934.8-feet. **This meets the Commission standards** for two feet of freeboard and that the low floor shall be at least one foot above the EOF.

Rate Controls

1. Rate control **meets** Commission requirements.
2. Rate control for the site was provided by an existing regional stormwater pond downstream to the proposed biofiltration basin, on the southeast side of the property.
3. The biofiltration basins was sized to draw down within 48 hours.
4. The existing stormwater pond was sized to provided rate control for the proposed project. Thus, the increase in the rate of discharge leaving site is accounted for from the existing stormwater pond and is acceptable.
5. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events total outflow from each drainage point from the site. The rates are summarized in the table below:

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
South	Pre-Project	N/A	N/A	N/A
	Proposed	1.2	2.1	4.0
	Change	+1.2	+2.1	+4.0
Southeast	Pre-Project	5.8	12.2	27.6
	Proposed	6.6	12.9	29.0
	Change	+0.8	+0.7	+1.4
Total (to regional pond)	Pre-Project	5.8	12.2	27.6
	Proposed	7.8	15.0	33.0
	Change	+2.0	+2.8	+5.4

Abstraction Controls and Water Quality

1. Abstraction controls **meet** Commission requirements.
2. Net, new impervious areas will be 1.68-acres from the site, requiring abstraction of 6,708 cubic feet.
3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils.

4. The biofiltration basin provides 6,884 cubic feet of abstraction.
5. Water quality **meet** Commission requirements.
6. The applicant proposes to construct a filtration bench on the existing stormwater pond. The filtration bench uses iron-enhanced sand to meet water quality requirements.
7. The applicant used P8 model to simulate pollutant removal by the filtration bench.

Table 2 Water Quality Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	1.7	N/A	1.48	446.6
Proposed	4.9	6,884	1.47	237.8
Change	+3.2	+6,884	-0.01	-208.8

¹The values presented in the table were calculated by ECWMC technical staff using the P8 water quality model

Operation and Maintenance

The city of Maple Grove has agreed to assume responsibility of operation and maintenance of the proposed stormwater treatment facilities.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Catch basin inlet protection
 - d. Bioroll
 - e. Permanent erosion control devices shown to be installed include:
 - i. Seeding/ vegetation
 - f. Stabilization of disturbed soil areas

Recommendation

Conditional Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. The applicant shall provide a Stormwater Maintenance Agreement that acceptable to the city and the ECWMC within 90 days after the plat is recorded for all stormwater BMP's on the site that will not be operated and maintained by the city.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



4/5/2022
Date

Attachments

- | | |
|----------|-------------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |
| Figure 4 | Erosion and Sediment Controls |

Figure 1 Project Location

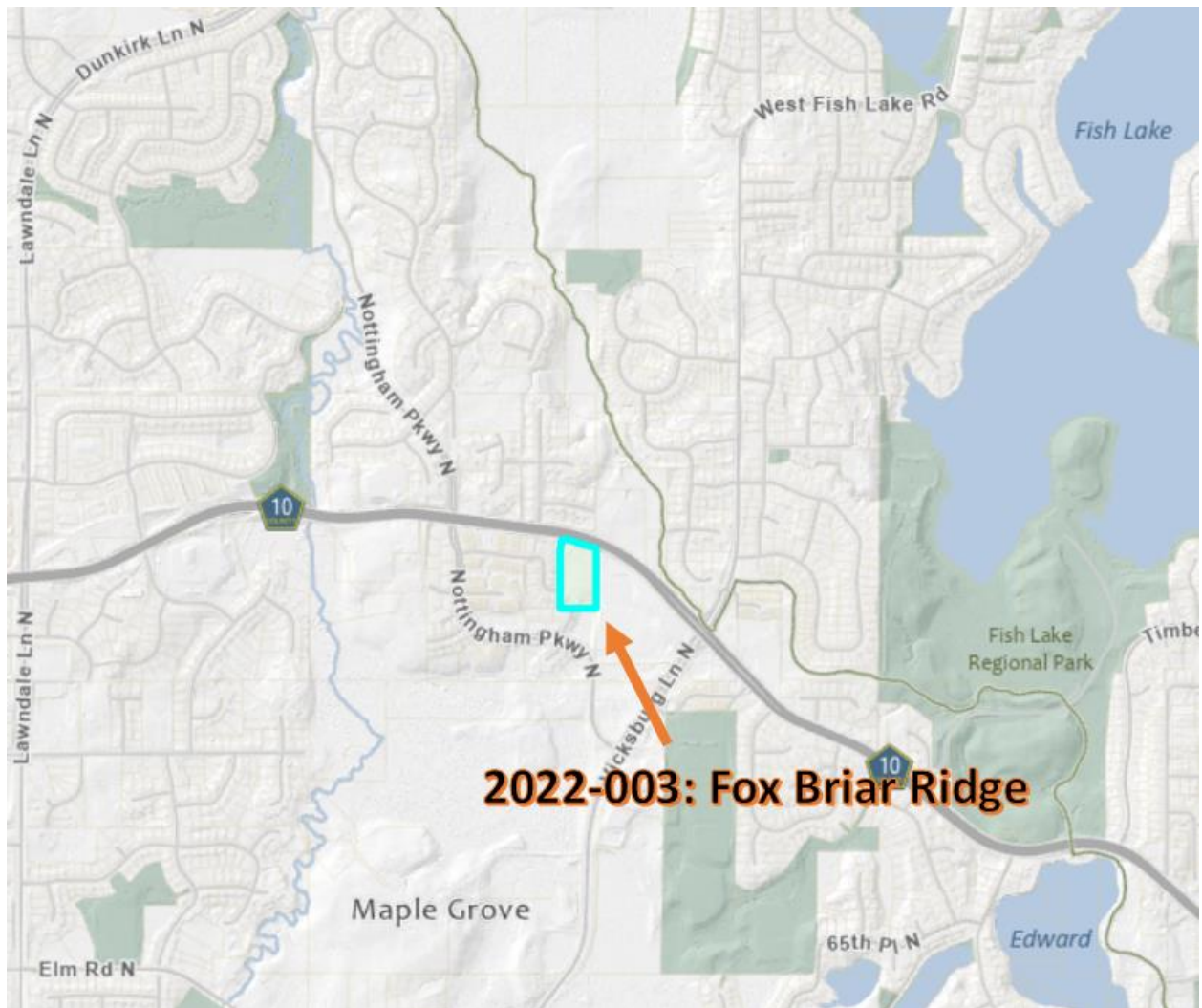


Figure 2 Existing Drainage Map

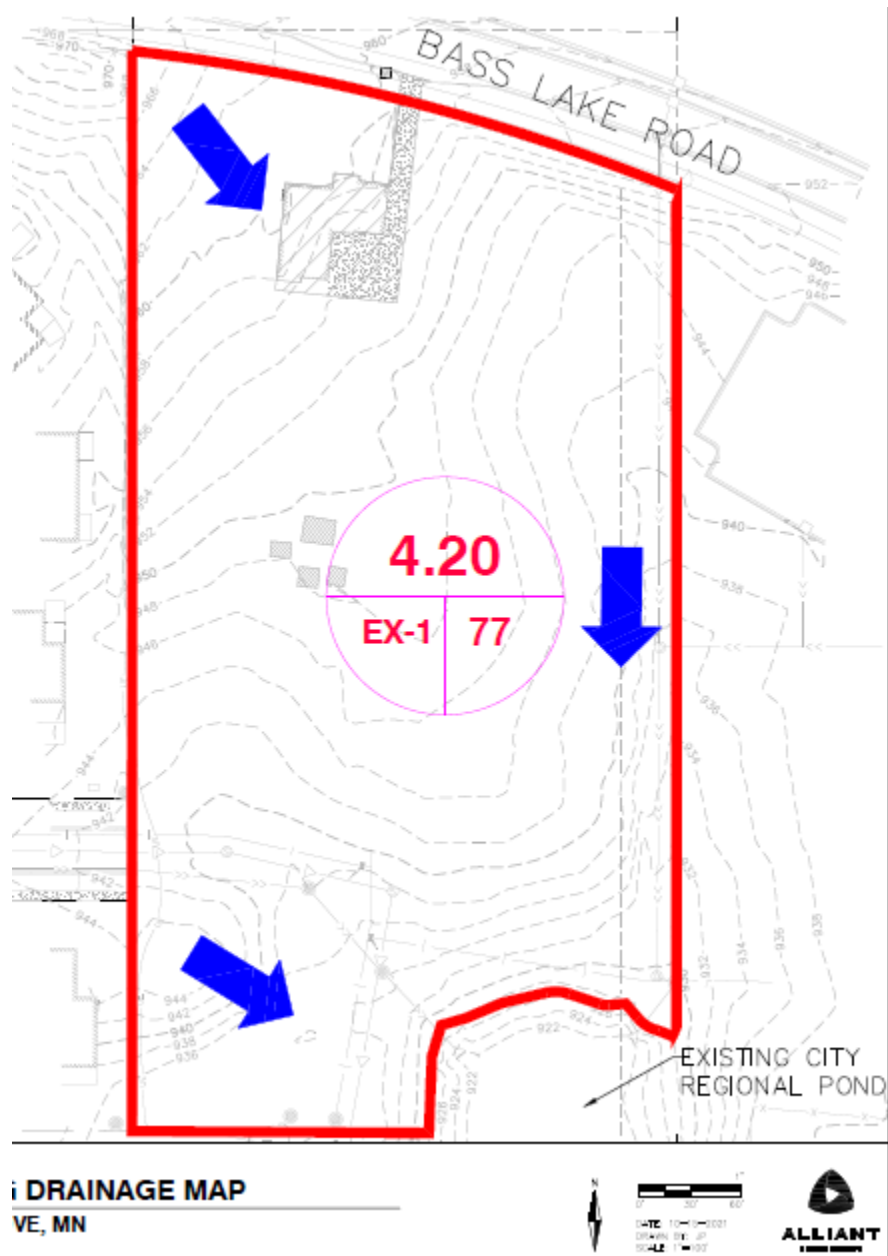


Figure 3 Proposed Drainage Plan

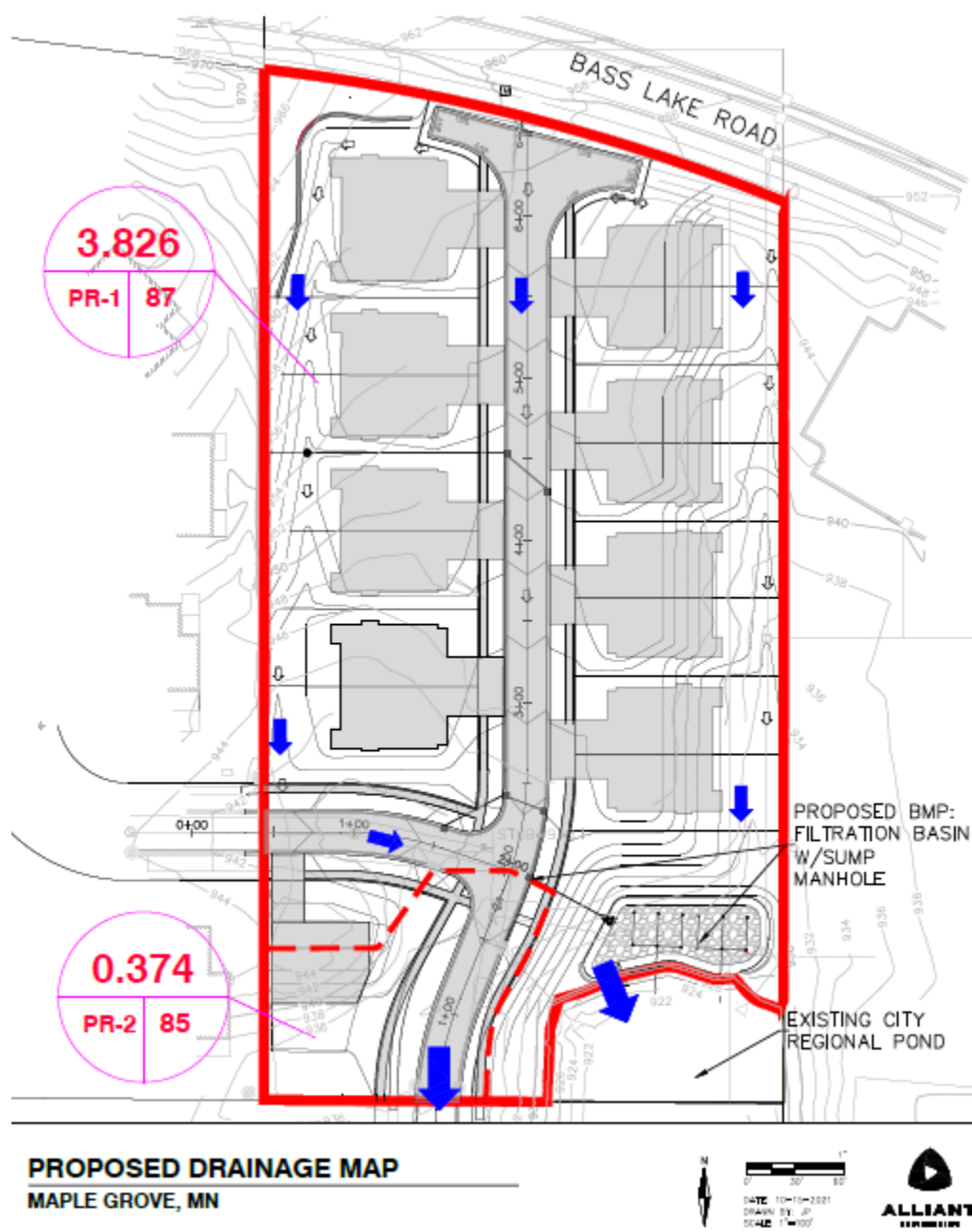
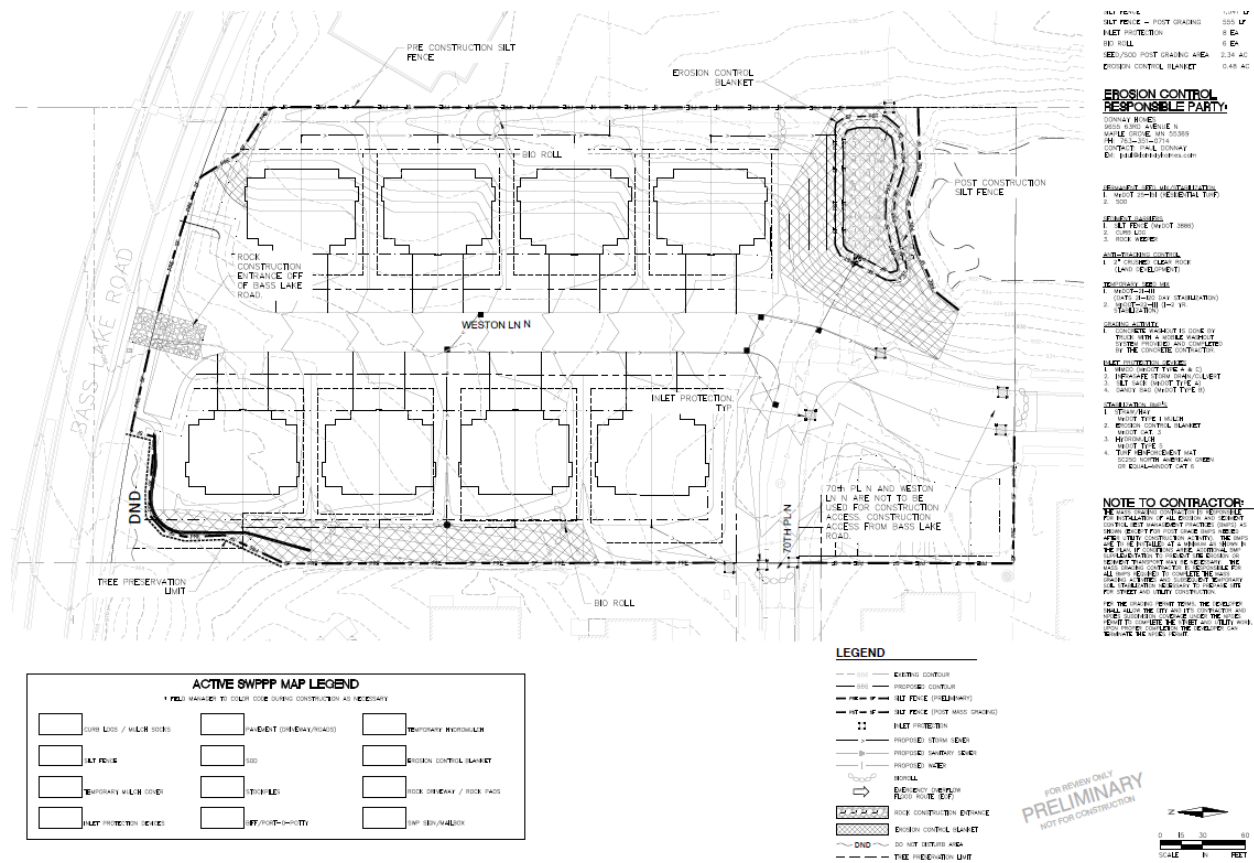


Figure 4 Erosion and Sediment Controls



elm creek Watershed Management Commission

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Weston Commons 2nd Addition Maple Grove Project #2022-007

Project Overview:

<i>Location:</i>	South of County Road No. 81, and north of 105 th Ave North. 15.5 acres adjacent to and east of Weston Commons site.		
<i>Purpose:</i>	Development of an 82-unit single family attached row townhome site with associated sidewalks, street improvements and stormwater infrastructure.		
<i>WMC Rules</i>	X	Rule D	Stormwater Management
<i>Triggered:</i>	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
		Rule G	Wetland Alterations
		Rule H	Bridge and Culvert Crossings
	X	Rule I	Buffer Strips

<u>Applicant:</u>	U.S. Home Corporation DBA Lennar	<u>Attention:</u>	Paul Tabone
<u>Address:</u>	16305 36 th Ave N Ste 600 Plymouth, MN	<u>Phone:</u>	952-221-4032
		<u>Email:</u>	paul.tabone@lennar.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	February 24, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	February 24, 2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	February 24, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	February 24, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	February 24, 2022

Submittals

1. Drainage Narrative for Weston Commons 2nd Addition, dated April 5, 2022, prepared by James R. Hill, Inc.
 - a. Braun Intertec soil boring logs dated June 1, 4 and 5, 2018. Soil boring location sketch last modified June 12, 2018
 - b. Wetland Delineation Report with Joint Application Form, dated March 29, 2018, prepared by Kjolhaug Environmental Services Co.
 - c. Existing and Proposed HydroCAD models
 - d. Existing and Proposed Conditions P8 water quality model
2. Weston Commons 2nd Addition Preliminary Development Plan, dated December 13, 2021 (most recent revision on April 5, 2022), prepared by James R. Hill, Inc.
 - a. Sheet C1.0, Title Sheet
 - b. Sheet C1.1, Existing Conditions
 - c. Sheet C1.2, Demolition Plan

- d. Sheet C1.3, Site Information – Drainage Maps
- e. Sheet C1.4, Site Plan
- f. Sheet C2.0, Preliminary Plat
- g. Sheets C3.0 to C3.3, Preliminary Erosion & Sediment Control Plan and Details
- h. Sheets C4.0 to C4.2, Preliminary Grading and Drainage Plan
- i. Sheet C4.3, Preliminary Street Profiles Plan
- j. Sheets C5.0 to C5.3, Preliminary Sanitary Sewer & Watermain Plan
- k. Sheets C6.0 to C6.2, Preliminary Storm Sewer Plan
- l. Sheets C7.0 to C7.1, Details.

Findings

General

1. A complete application was received February 24, 2022. The initial 60-day decision period per MN Statute 15.99 expires April 23, 2022.
2. The existing 15.5-acre parcel contains 0.75-acres of impervious surfaces from an existing farmstead in the southeast corner of the parcel. The remaining areas are considered meadow/grass/pasture areas. The site currently drains in three directions.
 - a. Runoff from about 1.2 acres flows southeast into an existing wetland in the first Weston Commons subdivision. This wetland has a 12' pipe outlet that flows west into the existing DNR wetland along the western portion of this new parcel.
 - b. Runoff to the westerly 8.7 acres flow directly into DNR wetland basin 27-0266 along the western portion of this parcel.
 - c. Runoff along the east and northerly 6.2 acres flow to an existing wetland in the northeast corner of the property. This wetland overflows west into a ditch along the existing railroad before flowing into the DNR wetland along the western portion of this site.
3. The proposed construction includes 82 new slab-on-grade townhome units and associated sidewalks, street improvements and utilities with a disturbance of approximately 15.0 acres.
4. The development will create 5.48 acres impervious area. An additional 0.68 acres impervious area from 105th Ave. N. will also be treated on this site. 6.15 impervious areas will be treated in the stormwater management system proposed in this subdivision. New net impervious areas will be 5.4 acres. Existing and proposed conditions HydroCAD models were created to model rate control.
5. Two stormwater basins will be construction to function as volume, water quality and rate controls on the Weston Commons 2nd Addition and the ROW for 105th Avenue that abuts this project.
 - a. Approximately 5.4 acres (0.52 acres impervious) will flow through buffer areas before draining into existing wetlands.
 - b. 9.24 acres (4.49 impervious) will be routed to the far northwest corner of this site into a NURP pond with an iron enhanced filter bench. This pond will outlet to the railroad ditch that flow west into the DNR wetland basin.
 - c. The southwest 1.68 acres (0.79 acres impervious) from this site will flow into a NURP pond which outlets to the DNR wetland basin along the west side of this project.
6. There are four wetlands within the project extents. No wetland will be impacted from this project.
7. Soil borings indicate sandy lean clay, fat clay and lean clay as underlying soils throughout the site including beneath the proposed basin footprints, infiltration is not feasible.
8. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings within the site.

Rule D – Stormwater Management

General

1. The project will disturb the complete site except the wetland areas, approximately 13.0 acres. The impervious area will be 6.15 acres, 5.4 acres of which is new impervious. Project design for abstraction uses 6.15 acres of impervious areas.
2. Soil boring logs indicate sandy lean clay, fat clay and lean clay. These underlying soils are predominantly Hydrologic Soil Group Type C/D (low infiltration capacity). Groundwater was not encountered during boring.
3. Stormwater will be managed on the site via two NURP ponds. The larger NURP pond to the north, will have an iron-enhanced sand filter bench.
4. Stormwater basin outlets will be submerged to prevent migration of floatables and oil downstream.
5. The City of Maple Grove provides the operation and maintenance on the stormwater facilities within town. If additional long-term operation and maintenance is required beyond the city's normal O & M procedures, an operation and maintenance agreement implementing those conditions that bind current and future owners of the project shall be recorded for this property.

Low Floor Elevations

1. Low floors **meet** Commission requirements. All homes are slab on grade with no basements.
2. The low floor elevations of all lots are at least two feet above the 100-yr high water level (HWL) and at least one foot above the EOF for all wetlands, storm sewer pipe overflows and stormwater basins.

Rate Controls

1. Rate control will **meet** Commission requirements.
2. Post development rate control for the site is provided by two stormwater basins. The southerly basin is a NURP pond. the northerly basin is a NURP pond with an iron-enhanced sand filter bench. Both basins drain into the DNR wetland along the western edge of this project.
3. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events total outflows. Table 1 below compares the before and after development discharge rate into the DNR wetland basin along the west side of this site.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
To DNR Wetland	Pre-Project	22.98	43.21	103.08
	Proposed ¹	8.67	23.34	52.52
	Change	-14.31	-19.87	-50.56

Abstraction Controls

1. Abstraction controls will **meet** Commission requirements.
2. Net, new impervious areas will be 5.4-acres from the Weston Commons 2nd Addition requires 21,562 cubic feet abstraction volume. Additional abstraction (3,008 cf) from 105th Ave. N improvements will be treated in this development in pond 1 prior to discharge into the DNR wetland.

- a. The applicant uses 6.15 acres of new impervious and 24,570 cubic feet for this site's abstraction requirements.
3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils.
4. The applicant uses stormwater basin 1P to provide all the abstraction requirements for this project. 24,928 cubic feet of abstraction will occur in the filter bench to basin 1P.
5. Draw down will be 46 hours based on a 2" per hour filter rate through the sand filter. Because of the limited space, 2.0 inches per hour through the proposed sand filter mix C is acceptable.
 - a. The applicant provided an alternative drawdown estimate based on the estimated 48-hour capacity of the 4" drain tile is 50 cubic feet of ponded water per linear foot of pipe. Using this conversion, 24,570 cubic feet can pass through approximately 500 linear feet of drain tile within 48 hours.

Water Quality

1. Water quality will **meet** Commission requirements.
2. The applicant used P8 model to simulate pollutant removal by the NURP ponds and filtration system.

Add another Table 2 Water Quality Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	4.92	N/A	4.2	1,253
Proposed (w/o BMP's) ¹	13.43	24,570 (required)	12.6	3,900
Proposed (w/ BMP's) ¹	13.43	24,982	2.7	194
Change	+8.51	+412	-1.5	-1,059

Pond 1P also provides stormwater treatment for a portion of 105th Avenue,

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Double silt fence adjacent to delineated wetland boundaries
 - d. Catch basin inlet protection
 - e. Stabilization of disturbed soil areas.

Rule I– Buffer Strips

1. Plans **meet** Commission requirements for buffer strips.
2. The buffer strip average width is greater than 25-feet wide with a slope shallower than 6:1 (horizontal: vertical) and therefore will meet the Commission's minimum (10 feet) and average (25 feet) standard.

3. The buffer vegetation plan will meet the Commission requirements for native vegetation establishment and maintenance.
4. Wetland buffer monumentation will meet the Commission's requirements.

Recommendation

Approval.

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.



James C. Kujawa
Surface Water Solutions
Advisor to the Commission

April 6, 2022
Date

Attachments

- | | |
|----------|------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |
| Figure 4 | Proposed Grading Plan |

Figure 1 Project Location



Figure 2 Existing Drainage Map

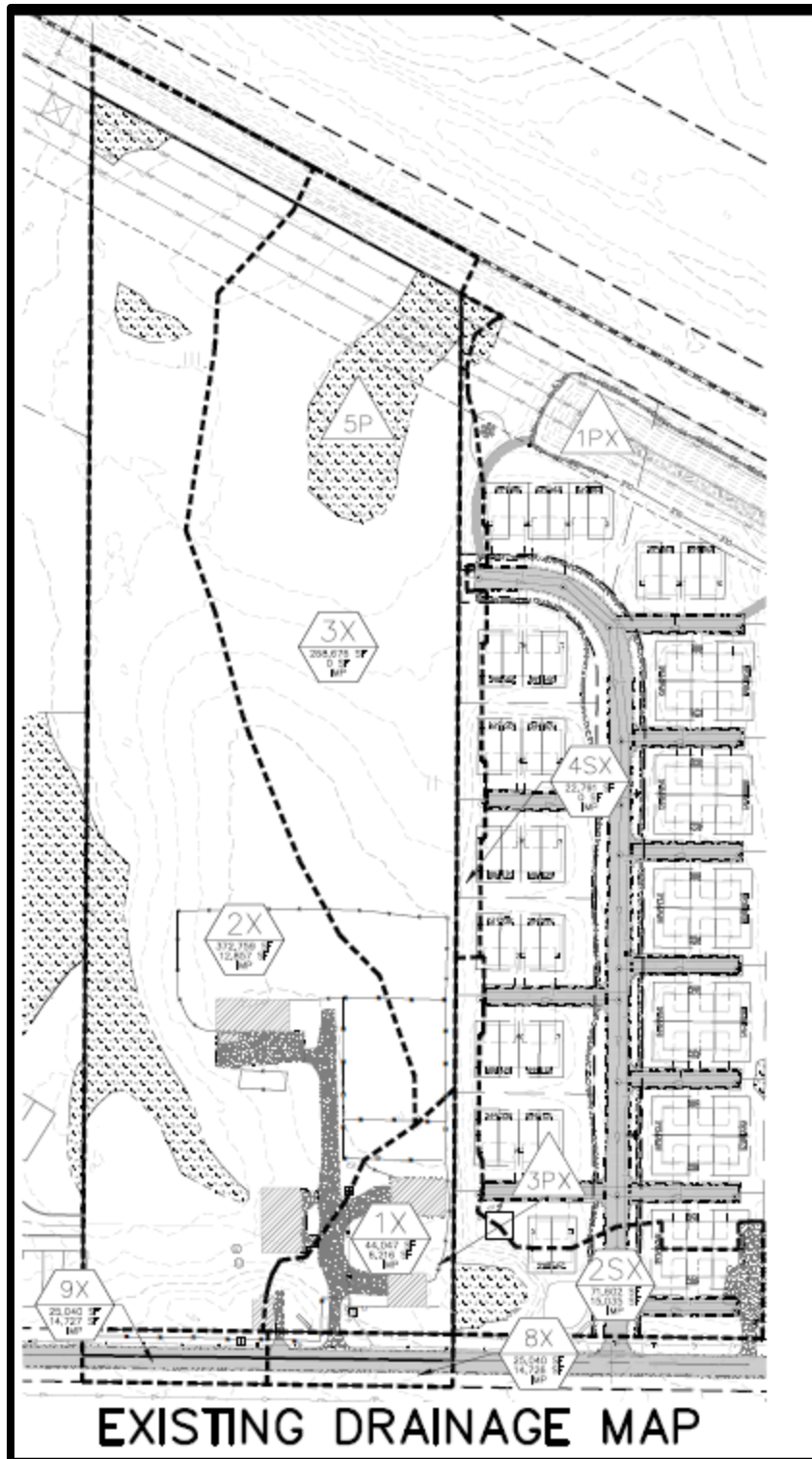


Figure 3 Proposed Drainage Plan

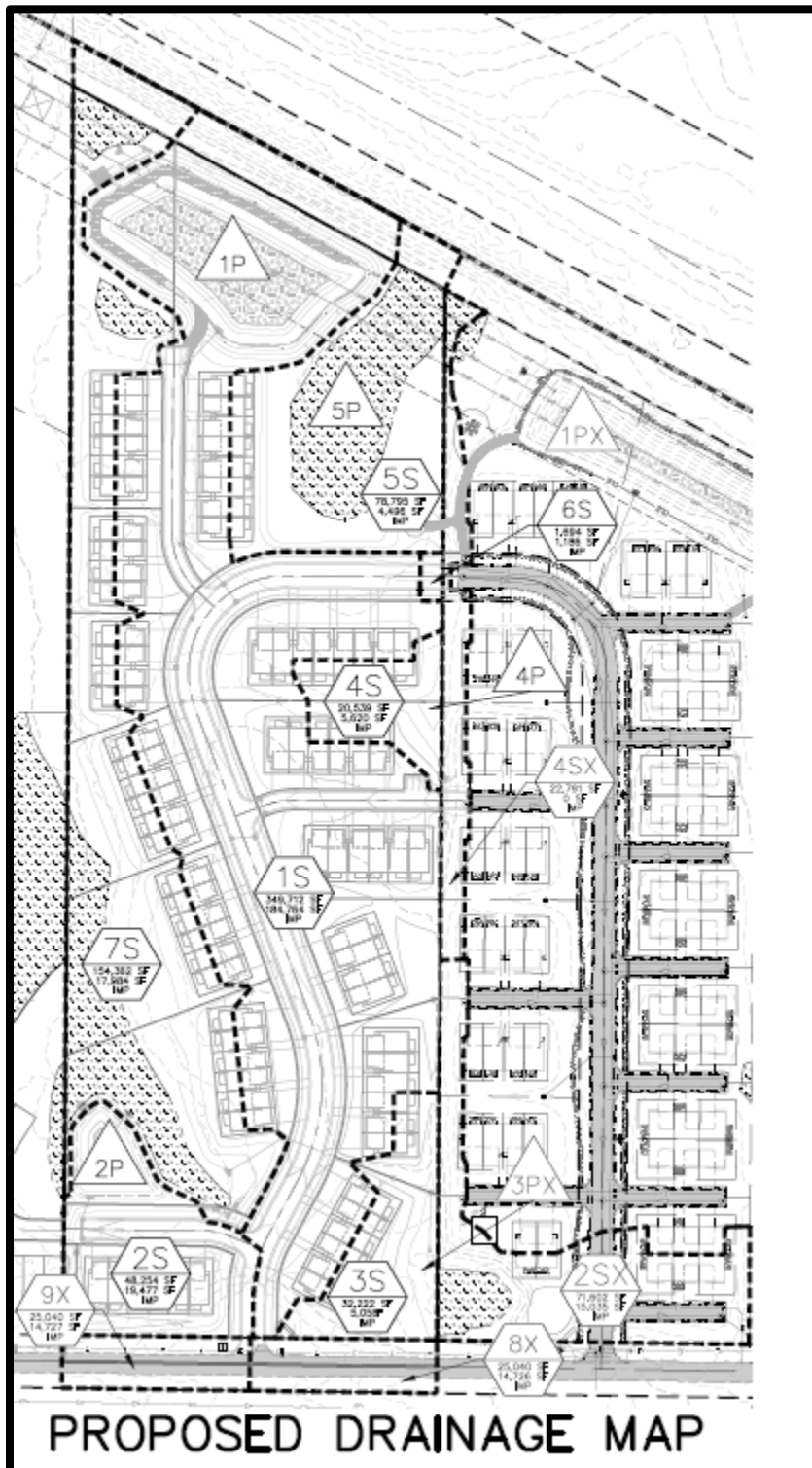
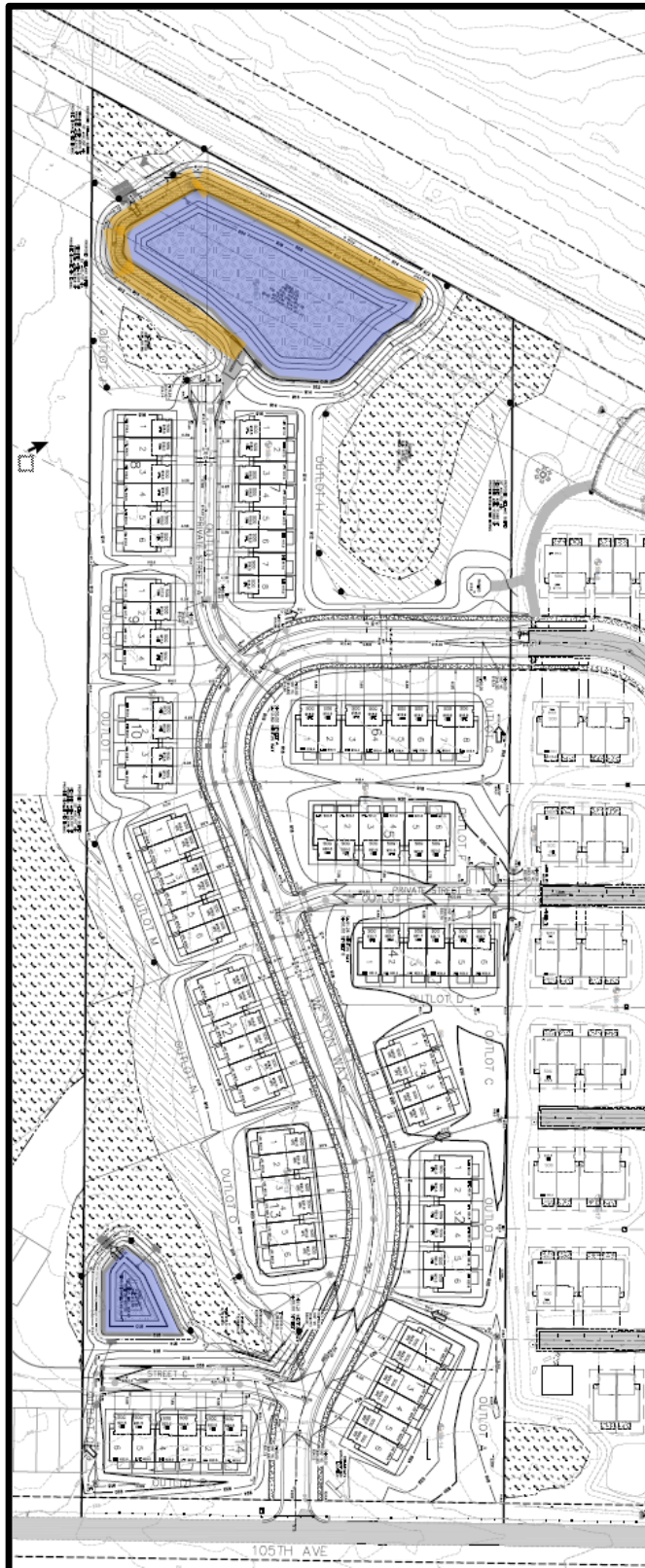


Figure 4 Proposed Grading Plan



elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

Bechtold Farm Corcoran Project #2022-008

Project Overview:

Location: Two existing parcels (115.61 acres) west of Bechtold Road between Oakdale Drive and County Road 30.

Purpose: Subdivide the area into 12 large lot single family home sites. Construct Chaparral Lane with all its associated drainage, storm water and lot grading improvements. Note, grading and future land use for Garden Lane and Lot 10, block 1 were not part of this plan or review.

WMC Rules Triggered:

X	Rule D	Stormwater Management
X	Rule E	Erosion and Sediment Control
X	Rule F	Floodplain Alterations
X	Rule G	Wetland Alteration
	Rule H	Bridge and Culvert Crossings
X	Rule I	Buffer Strips

Applicant:	Skies Limit, LLC	Attention:	N/A
Address:	26175 Birch Bluff Road Excelsior, MN 55331	Phone:	612-548-4395
		Email:	N/A
Agent:	Otto Associates	Attention:	Paul Otto
Address:	9 West Division Street Buffalo, MN 55313	Phone:	763-682-4727
		Email:	paul@ottoassociates.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	March 4, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	February 25, 2022
	<input checked="" type="checkbox"/> City authorization: Corcoran, MN	February 22, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,725 & \$675	March 4, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	February 23, 2022

Submittals

- Stormwater Report, Bechtold Farm, dated June 15, 2021, revised September 20, 2021, December 17, 2022, March 11, and March 15, 2022, prepared by Otto Associates.
 - Summary Narrative
 - Existing and Proposed Conditions MIDS calculator model
 - Bechtold Farm NOAA Atlas 14, point precipitation frequency estimates and NRCS hydrologic soil group.
 - Existing and Proposed HydroCAD models

- e. Ponds 1, 2 and 3 NURP and water quality volume calculations.
 - f. Ponds 1, 2 and 3 outlet control details
 - g. Existing and propose drainage maps.
2. Wetland Information
 - a. Bechtold Road Site Wetland Delineation Report with revised Existing Conditions (Figure 2) by Kjolhaug Environmental Services dated June 22, 2021.
 - b. MN WCA Notice of Decision, approved wetland boundary/type from City of Corcoran (LGU) dated August 31, 2021.
3. Bechtold Farm Site Plans by Otto and Associates dated March 30, 2022
 - a. Sheet 1 of 14, Cover Sheet
 - b. Sheets 2 & 3 of 14, Grading Plan
 - c. Sheets 4 & 5 of 14, Street & Storm Sewer Plan
 - d. Sheets 6 to 9 of 14, SWPPP Plan
 - e. Sheets 10 & 11 of 14, Wetland Buffer & Tree Preservation Plan
 - f. Sheets 12 to 14 of 14, Details.
4. Bechtold Farm soil testing and boring logs by Otto and Associates dated December 1, 2021.
5. Bechtold Farms email response on March 11, 2022, from Otto & Associates.
6. March 21, 2022, Otto Associates response to 3/13/22 ECWMC findings review

Findings

General

1. A complete application was received March 4, 2022. The initial 60-day decision period per MN Statute 15.99 expires May 3, 2022.
2. The existing 115.6 acres drains into the North Fork of Rush Creek that is located along the west and north portions of this property. It contains 1.16 acres impervious surfaces. The remaining land use areas are a combination of cropland, meadow, woods, and wetlands. The site drains three main directions,
 - a. Runoff (112.4 acres) that flows westerly directly into the North Fork of Rush Creek
 - b. Runoff (30.9 acres) to wetland 8 in the northcentral site discharge
 - c. Runoff (8.8 acres) to the northeast that discharges from wetlands 10.
3. The proposed development will limit the grading disturbance to Chaparral Lane, stormwater management and the home pads on lots 3, 5 and 6. All other areas will remain undisturbed with a footprint for a recommended home site. Primary and secondary septic locations for each lot are also provided based on soil borings.
4. The development will create 4.53 acres of new, net impervious areas with 12 large rural residential lots and Chaparral Lane. Stormwater management is designed to treat Chaparral Lane and the lots adjacent to it. Future Garden Lane and Lot 10, Block 2 are not part of abstraction and water quality review for this project. This area will require Elm Creek Watershed review when they are developed.
5. Existing and proposed conditions HydroCAD models were created to model flow rates through this site for the 2-, 10-, and 100-year storm events.
6. Three stormwater basins will be constructed to provide water quality and rate controls.
7. Abstraction controls will be attained through impervious disconnected surfaces, excess wetland buffer and conservation easements.
8. There are 15 wetlands within the project extents.
 - a. One wetland fill area is proposed, impacting 2,885 square feet of wetland 11. This is area is being impacted to construct Chaparral Lane.

9. Soil borings indicate sandy lean clay, fat clay and lean clay with high seasonal water tables. Infiltration is not feasible on this site.
10. The North Fork of Rush Creek jurisdictional floodplains runs along the north and westerly section of this property. There will be floodplain impacts and mitigation.
11. There are no bridge/culvert crossings across jurisdictional stream from this project.

Rule D – Stormwater Management

General

1. The project will disturb approximately 10 acres and create 4.53 acres of new, net impervious areas.
2. Soil boring logs indicate sandy lean clay, fat clay and lean clay. These underlying soils are predominantly Hydrologic Soil Group Type C/D (low infiltration capacity). Seasonally high groundwater indicators between 9 inches and 30 inches were encountered throughout the site.
3. Stormwater flow rates and quality will be managed on the site via three NURP ponds.
4. Stormwater basin inlet pipes to the outlet control structure pipes will be submerged to prevent migration of floatables and oil downstream.
5. An operation and maintenance agreement implementing those conditions that bind current and future owners of the project shall be recorded on this property

Low Floor Elevations

1. All home elevations meet the intent and rules of the Commission's low floor requirements. The low floor elevations as they relate to the adjacent water body are as follows.
 - a. L1/B1 is an existing farmstead with a surface grade of ~980.0 around the home.
 - i. Adjacent Wetland 11 high water is 972.5 before development and 972.0 after development. Post development high water conditions will be a better condition than existing.
 - b. L2/B1 low floor 971.0.
 - i. Storm Basin #3 and #2 -300 feet from home, HWL 978.0, NWL 975.0 and 959.3/956.5 respectively. These basins are not hydraulically connected (surface water will flow out of basin before migrating toward the home) and greater than 200 feet from home.
 - ii. Wetland 11 HWL/NWL/EOF 972.0/970.5/968.63-flow through wetland. This wetland is not hydraulically connected (surface water will flow out of wetland before migrating toward the home) and greater than 200 feet from home.
 - iii. Wetland 9 NWL=959.6, NWL=959.0 >2.0/1.0 feet
 - c. L3/B1 low floor 961.6. .
 - i. Wetland 9, 68 feet from the home footprint. HWL 959.6, NWL 959.0 EOF 958.8.
 - ii. Wetland 10 is 100 feet from the home footprint., EOF offsite= 955.0 (estimate based on LiDAR). NWL=956.0 (estimate). Wetland 10 is not hydraulically connected (surface water will flow out of wetland before migrating toward the home).
 - iii. Wetland 8, NWL is 948.0 (estimate). Wetland 8 is connected to the N. Fork of Rush Creek. Base flood elevation on wetland 8 is 948.0 >2.0 feet below home elevation .
 - iv. Basement elevations are 1.0 feet above the NWL of all the wetlands on or adjacent to this parcel.
 - v. Stormwater basin #2 is 435 feet from home footprint, NWL=956.5, HWL=959.3. Basin NWL, HWL and overflow is not hydraulically connected to the home. Overflow is into wetland 8 at 956.3 elevation.
 - d. L4/B1 low floor 959.0.
 - i. Wetlands 1 and 8 are connected to North Fork of Rush Creek 100-year = 949.0.

- ii. Wetland 8 NWL = 948.0 (estimated) HWL=948.0 (NFRC floodplain)
- iii. Wetland 1 NWL = 950.0 (estimated) HWL=949.0 (NFRC floodplain)
- iv. Stormwater basin #2 is 200 feet from home footprint, NWL=956.5, HWL=959.3. Basin NWL, HWL and overflow is not hydraulically connected to the home. Overflow is into wetland 8 at 956.3 elevation.
- v. Stormwater basin #1 is 375 feet from home footprint, NWL=9550.0, HWL=952.3. HWL>2.0 feet lower than home low elevation
- vi. Low floor is >2.0 feet above the NF Rush Creek flood plain and >1.0 feet above NWL on wetlands 1 and 8.
- e. L5/B1 low floor 956.5.
 - i. Floodplain elevation for NF Rush Creek = 950.0.
 - ii. Basin 1 NWL=950.0. HWL=952.3
 - iii. Wetland 6, NWL = 947.2 (estimated) HWL= 950.0 (NFRC floodplain)
- f. L6/B1 low floor 958.3.
 - i. Floodplain elevation for NF Rush Creek = 950.0.
 - ii. Wetland 6, NWL = 947.2 (estimated) HWL= 950.0 (NFRC floodplain)
- g. L7/B1 low floor 957.8.
 - i. Floodplain elevation for NF Rush Creek = 951.0.
 - ii. Wetland 7 HWL=955.8 NWL = 951.0, EOF=953.0
 - iii. Wetland 5 HWL=953.9, NWL=952.0.
 - iv. Chaparral Road overflow = 955.4
- h. L8/B1 low floor 960.0.
 - i. Wetland 7 HWL=955.8 NWL = 951.0, EOF=953.0
 - ii. Culvert under Chaparral Lane HWL=959.5, EOF in south ditch of road= 959.8. Distance to HWL at road = 232 feet. Note: Due to distances and elevations, L8/B1 is not hydraulically connected to the culvert under Chaparral Road. if grade at home is higher than 962.0 higher facing north.
 - iii. Wetland 16 is flow-through wetland with a channelized high-water elevation modeled at 0.5 feet deep at a 100-year flow to Wetland 7. A drainage and utility easement are proposed to maintain this flowage. This wetland and its channel flowage will be 150 feet from the home. Low floor is adequate in relation to wetland 16 and its channel connection into the HWL (955.6) of wetland 9.
- i. L9/B1 low floor 967.0
 - i. Culvert under Chaparral Lane HWL=959.5, EOF in south ditch of road= 959.8.
- j. L10/B1 low floor 968.5.
 - i. Wetland 16 is flow-through wetland with a channelized high-water elevation modeled at 0.5 feet deep at a 100-year flow to Wetland 7. A drainage and utility easement are proposed to maintain this flowage. This wetland and its channel flowage will be 175 feet from the home. Low floor is adequate in relation to wetland 16 and its channel connection into wetland 9.
 - ii. Wetland 19 is across future Garden Lane ROW and 220 feet from this home footprint with a hill (elevation 976.0) between the two. Separation between the wetland is adequate to be considered not adjacent to this home.
 - iii. We recommend an easement be established to the southwest between Wetland 19 and the ROW of Garden Lane and then to the west from Garden Lane to Wetland 16. This will ensure an adequate drainage path for high water to flow between these wetlands as they do in the existing condition.
- k. L1/B2 low floor 982.0

- i. Nearest adjacent waterbody is wetland 11, NWL 976, HWL 979.3 at the south side of the culvert under Chaparral Lane.
- l. L2/B2 low floor 986.0.
 - i. Nearest adjacent waterbody is Wetland 20, NWL 971.0, HWL 972.6

Rate Controls

1. Rate control **meets** Commission requirements.
2. Post development rate control for the site is provided by 3 stormwater basins and culvert drainage under Chaparral Lane.
 - a. The stormwater basins are situated to accommodate runoff from 80% of the new impervious areas on this development.
 - b. Culvert drainage under Chaparral Lane is designed to replicate the natural drainage through this site.
3. The applicant provided a pre- and post-development HydroCAD model for the 2-year, 10-year, and 100-year storm events, Atlas 14, point precipitation and an MSE 24-hour type 3 rainfall distribution.
4. Table 1 compares before and after flow rates at three main discharge points from this property.
 - a. To the west draining directly into the North Fork of Rush Creek,
 - b. To the northeast into wetland 10 and
 - c. To Wetland 8 in the northcentral portion of the site.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
West (Directly into N. Fork Rush Creek)	Pre-Project	48.57	97.2	191.7
	Proposed ¹	48.85*	94.2	179.3
	Change	+0.28	-3.0	-12.4
Northcentral (Flows from wetland 8)	Pre-Project	18.9	44.6	102.6
	Proposed ¹	16.7	38.9	80.5
	Change	-2.2	-5.7	22.1
Northeast (Flows from wetland 10)	Pre-Project	10.5	24.9	60.4
	Proposed ¹	9.3	24.5	55.9
	Change	-1.2	-0.4	-4.5

*Negligible

Abstraction Controls

1. Abstraction controls will **meet** Commission requirements.
2. Net, new impervious areas will be 4.53 acres.
 - a. Disconnected credits on this site will be 0.51 acres. This includes portions of Chaparral Lane between stations 6+00 and 9+50 and the end area of the cul-de-sac west of station

22+00 and the front southerly portion of the driveway and home on Lot 6, Block 1. These areas meet the Commission guidelines for a minimum grass travel length of 75 feet for sheet flows and 300 feet for channelized flow from the edge of impervious to a discharge into a culvert or a water body.

3. Final abstraction for 4.02 acres impervious areas will be 16,052 cubic feet
4. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils and high seasonal ground water conditions.
5. Abstraction credits are requested for 4.62 acres of Tree preservation (201,396 sq. ft.) and 1.27 acres of excess wetland buffer areas (55,496 sq. ft.). Commission rules allow 0.75" abstraction credits over conservation areas. 0.75 inches credit over 5.9 acres of preservation area will meet our abstraction criteria.
 - a. A long-term vegetation management plan describing methods of maintaining the conservation area in a natural vegetative condition must be submitted with the stormwater management plans.
 - i. An analysis of the conservation easement areas should be provided by an arborist or similar knowledgeable expert. This should include existing quality and quality of native and non-native species. A plan to preserve, restore and protect native vegetation and control invasive species is needed. This will be incorporated into the conservation easement.
 - b. A recordable conservation easement acceptable to the City and Commission for protecting the excess preservation areas must be provided. This form must have the long-term management plan as part of the document.
 - c. Because the city will be the easement holder, they must agree with the preservation areas and its management, restrictions, and preservation plan.
 - d. Conservation easement areas must have appropriate monumentation per wetland buffer spacing requirements.

Water Quality

1. Water quality will **meet** Commission requirements.
2. Table 2 shows the pre and post development water quality summary on this site.

Table 2 Water Quality Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	62.1	N/A	76.5	20,657
Proposed (w/o BMP's) ¹	61.8	16,052 (required)	50.4	13,226
Proposed (w/ BMP's) ¹	61.8	16,053*	46.5**	11,376**
Change	-0.3	+1.0	-30.0	-9,281

* Abstraction obtained by disconnected impervious areas and conservation preserve areas

** Commission estimates

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** the Commission requirements for erosion and sediment control.
2. The grading and SWPPP plans include.
 - a. Rock construction entrance
 - b. Perimeter sediment protection measures including
 - i. Silt fence with double rows of silt fence adjacent to wetlands.

- ii. Natural vegetative buffers strips
- c. Erosion control blankets at critical areas.
- d. Concrete cleanout sites.
- e. Temporary and permanent stabilization for disturbed soil areas.

Rule I– Buffer Strips

1. Plans do not **meet** Commission requirements for buffer strips.
2. The buffer vegetation must meet the Commission requirements for native vegetation establishment and maintenance.
3. The wetland buffer monumentation will meet the Commission’s requirements.

Rule G– Wetland Alteration

1. Wetland boundaries and types were approved and noticed per MN WCA requirements on August 20, 2021.
2. Prior to any wetland impacts a wetland replacement plan must be approved by the City of Corcoran (LGU)
 - a. 2,885 square feet of Wetland 11 is proposed to be impacted by the construction of Chaparral Lane.
 - b. A wetland replacement plan has not been provided to the ECWMC per MN WCA requirements.
3. Drainage and utility easements are proposed to encompass all wetland and wetland buffer areas.

Rule F– Floodplain Alteration

1. Floodplain alterations **will meet** the Commission’s requirements
2. The North Fork of Rush Creek jurisdictional floodplains runs along the north and westerly section of this property.
3. The base flood elevations along the creek corridor varies from 947.0 near Lot 2, Block 1 (upstream) to 955.0 at the SW corner of Lot 7, Block 1 (downstream)
4. Floodplain fill will occur outside of the floodway corridor and only within the flood fringe area near sections 4.2, 4.26 and 4.43 of the floodplain study of the North Fork on Rush Creek. The FEMA and ECWMC base flood elevation is 948.0 to 951.7 along this area.
 - a. A portion of stormwater basin #1 will encroach into the floodplain, filling 2,153 cubic feet of floodplain.
 - b. Floodplain mitigation, excavating 6,129 cubic feet above the normal water table elevation will occur in the upland area adjacent to the floodplain, creating a net decrease in floodplain storage volume of 3,976 cubic feet.

Recommendation

Approval, contingent upon.

Rule D Stormwater Management

- 1) Preservation areas meeting the following criteria.
 - a. A long-term vegetation management plan describing methods of maintaining the conservation area in a natural vegetative condition must be submitted with the stormwater management plans.
 - i. An analysis of the conservation easement areas should be provided by an arborist or similar knowledgeable expert. This should include existing quality and quantity of native and non-native species. A plan to preserve, restore and protect native

vegetation and control invasive species is needed. This will be incorporated into the conservation easement.


- b. A recordable conservation easement acceptable to the City and Commission for protecting the excess preservation areas must be provided. This form must have the long-term management plan as part of the document.
 - c. Because the city will be the easement holder, they must agree with the preservation areas and its management, restrictions, and preservation plan.
 - d. Conservation easement areas must have appropriate monumentation per wetland buffer spacing requirements.
- 2) An operation and maintenance agreement implementing those conditions that bind current and future owners of the project shall be recorded on this property.

Rule G Wetland Alterations

- 3) Prior to any wetland impacts a wetland replacement plan must be approved by the City of Corcoran (LGU)

Rule I Buffer Strips

- 4) The buffer vegetation must meet the Commission requirements for native vegetation establishment and maintenance.



James C. Kujawa
Surface Water Solutions
Advisor to the Commission

April 2, 2022
Date

Attachments

- | | |
|----------|---------------------------------------------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |
| Figure 4 | Grading Plan |
| Figure 5 | Wetland Buffer, Conservation Area and Tree Preservation Areas |

Figure 1 Project Location

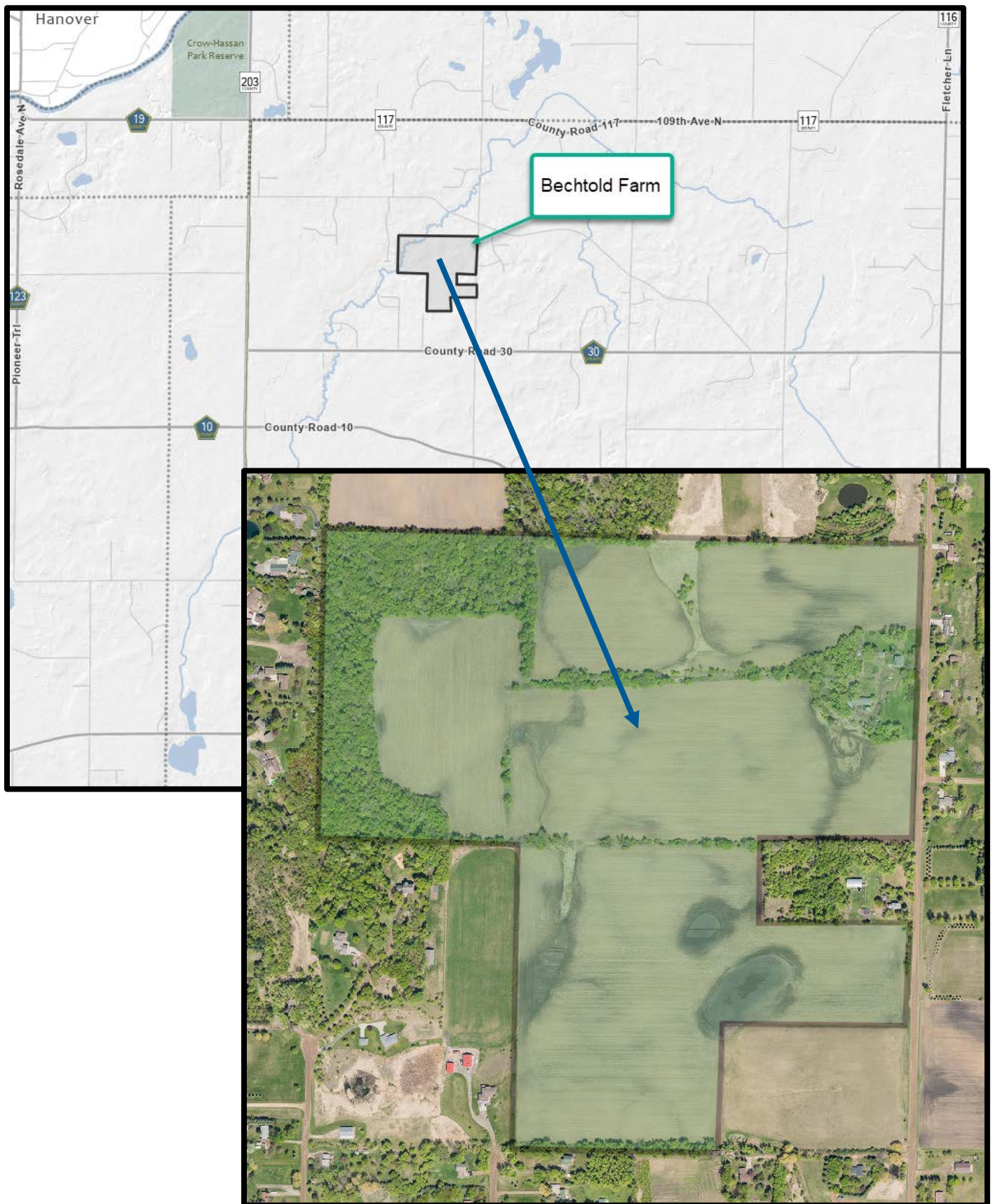


Figure 2 Existing Drainage Map

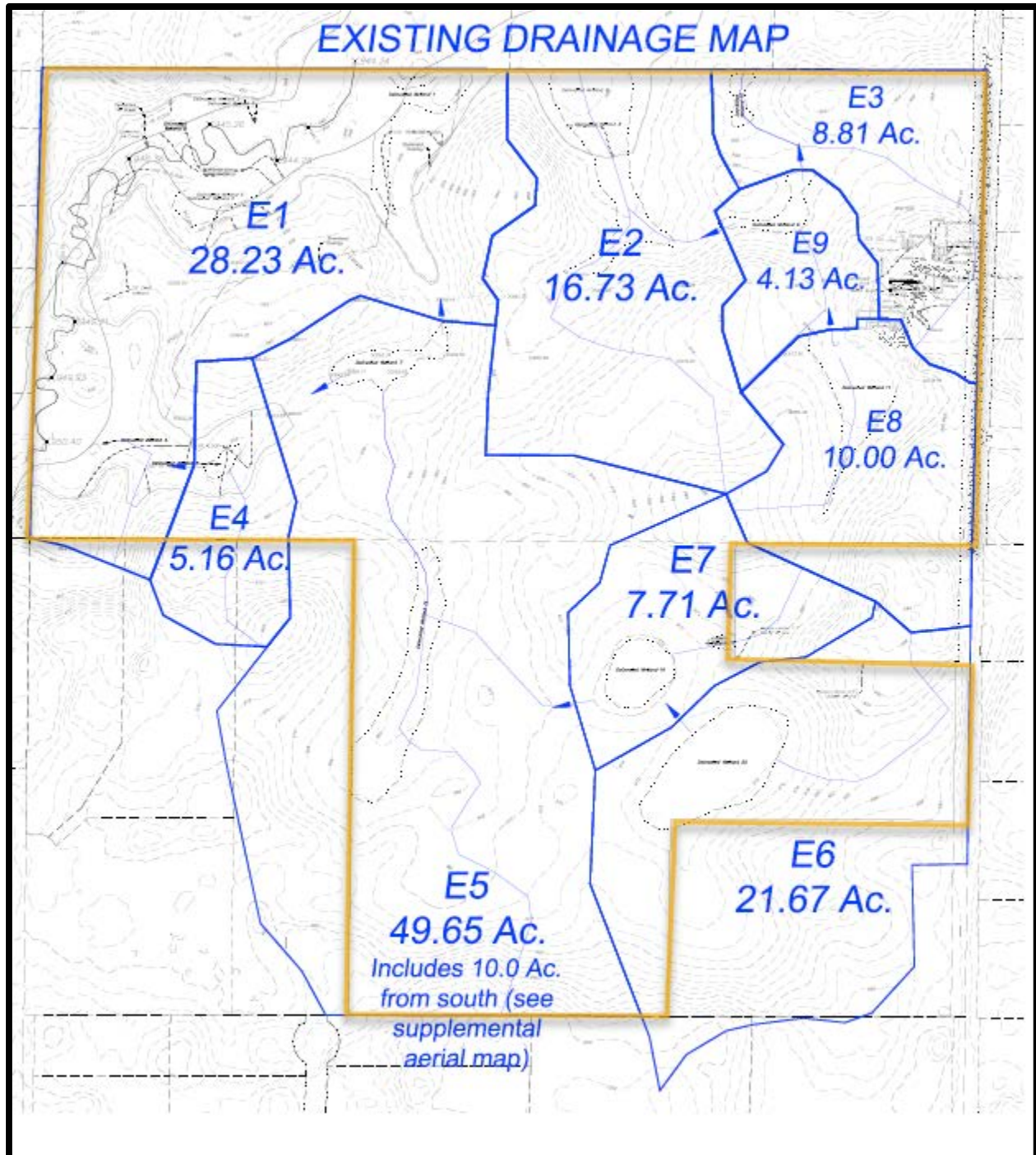


Figure 3 Proposed Drainage Plan

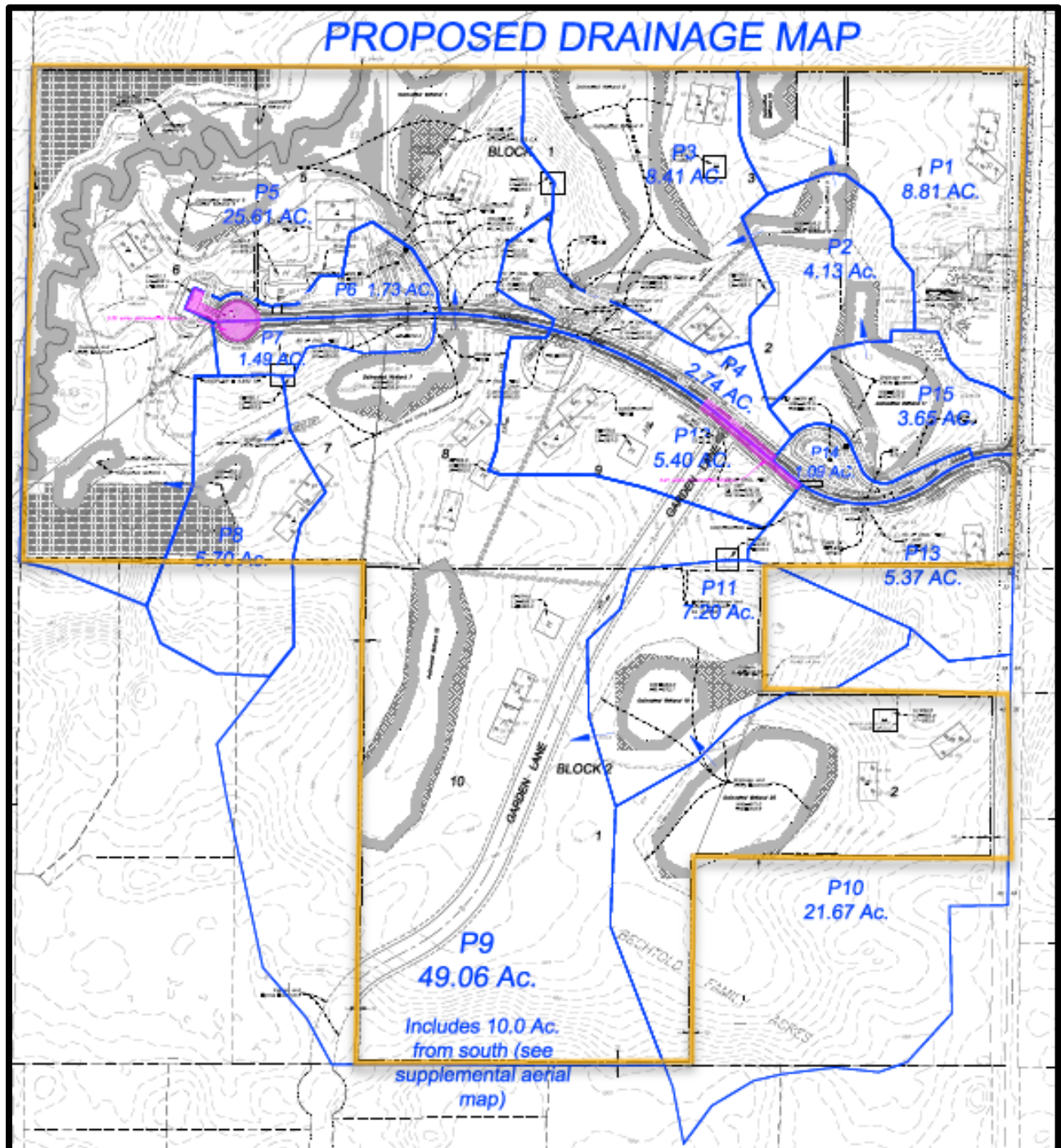


Figure 4 Grading Plan

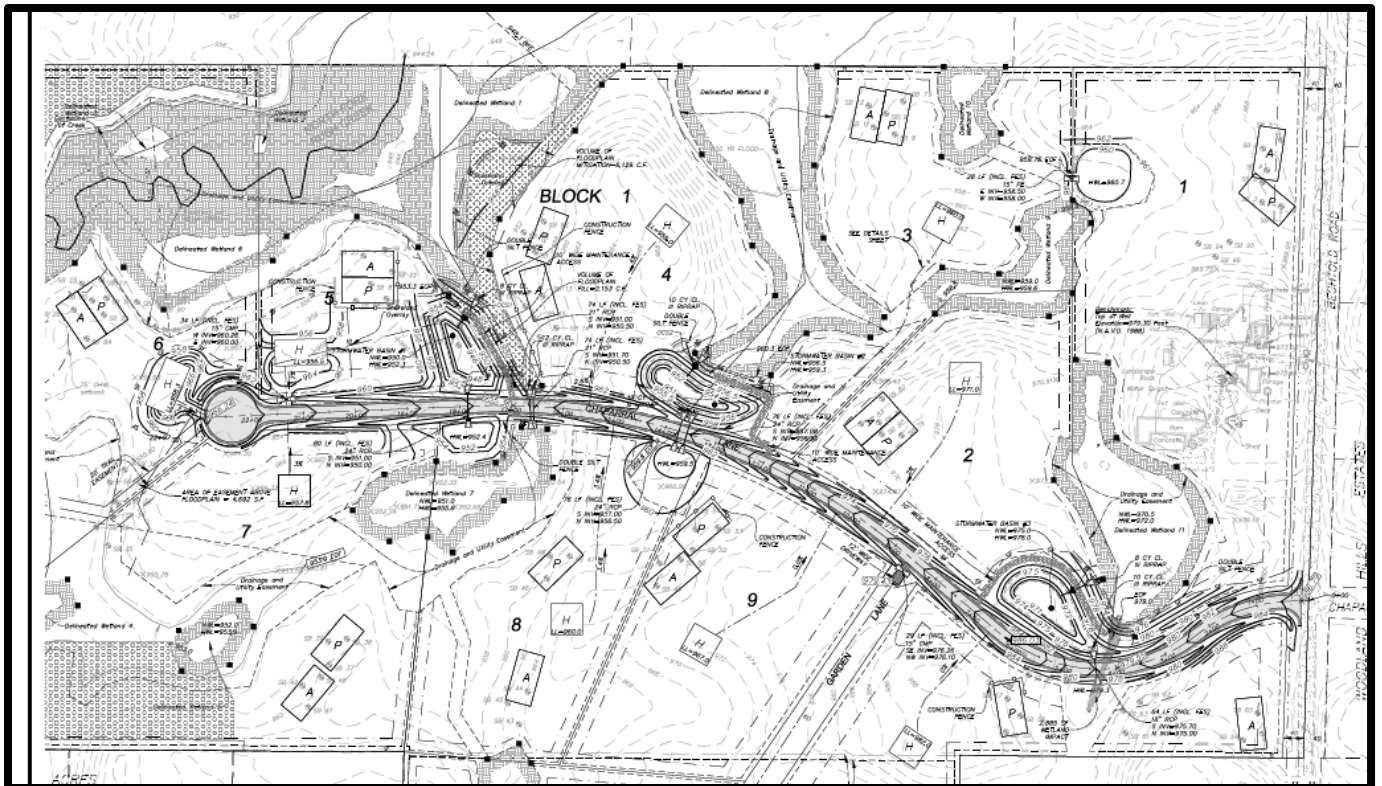
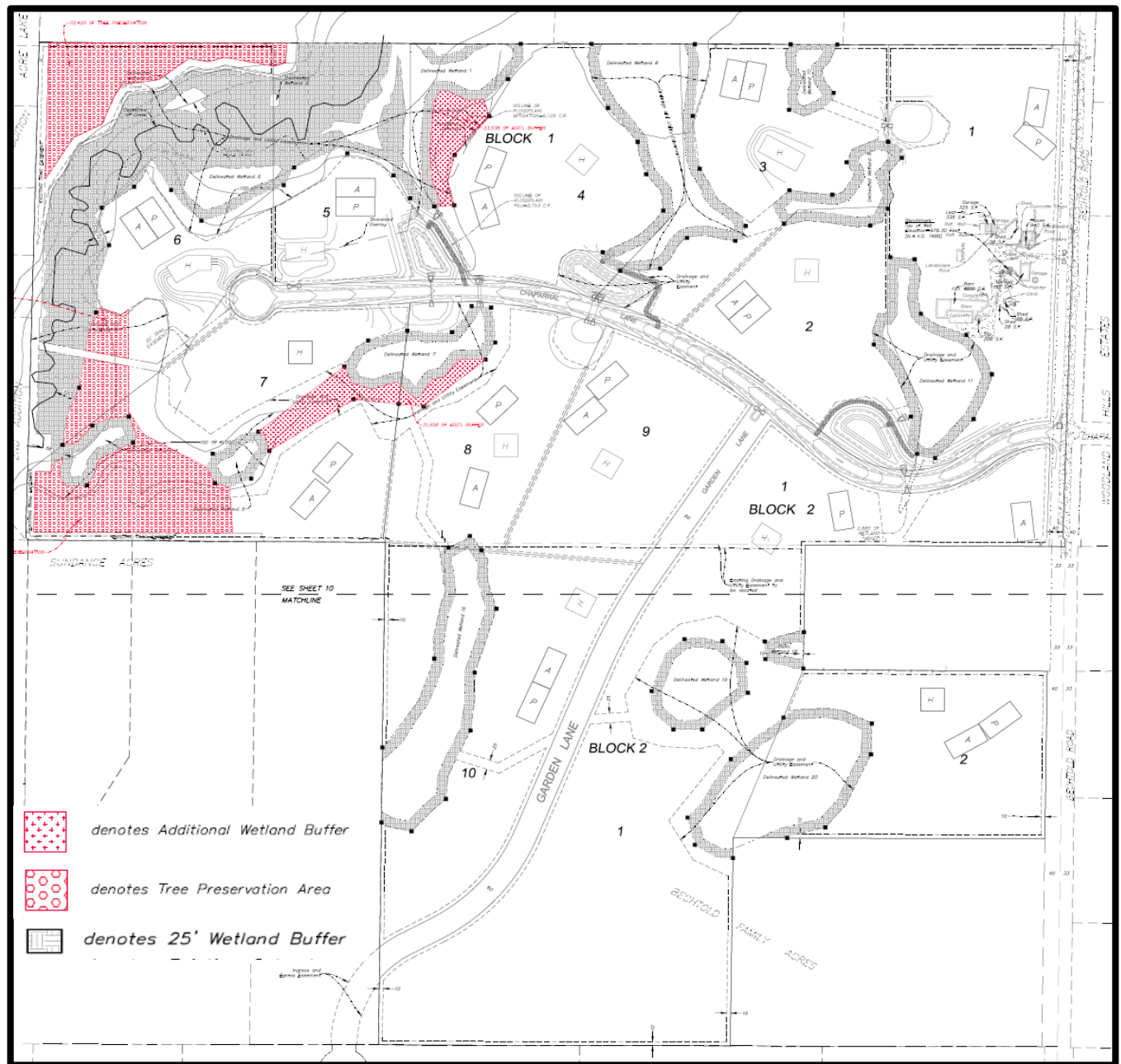


Figure 5 Wetland Buffer, Tree Preservation and Conservation Areas.



elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

Dunkirk Lane Development Plymouth Project #2022-009

Project Overview:

Location: The project site is located in the southwest quadrant of the intersection of Dunkirk Ln N and 59th Ave N in the City of Plymouth.

Purpose: The proposed development includes construction of 21 single family home units and the associated streets, utilities, and stormwater management basins. The development will take place on two existing parcels (PIDs 0511822240007 & 0511822240009).

WMC Rules	X	Rule D	Stormwater Management
Triggered:	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
		Rule G	Wetland Alteration
		Rule I	Buffer Strips

Applicant:	Rachel Development	Attention:	Paul Robinson
Address:	4180 Napier Court NE St Michael, MN	Phone:	612.791.7080
		Email:	probinson@racheldevelopment.com

Agent:	Alliant Engineering	Attention:	Ben Palazzolo and Seth Loken
Address:	733 Marquette Ave, Ste 700 Minneapolis, MN	Phone:	651.788.9616 and 612.767.9356
		Email:	bpalazzolo@alliant-inc.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	March 3, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	March 3, 2022
	<input checked="" type="checkbox"/> City authorization: Plymouth, MN	March 3, 2022
	<input checked="" type="checkbox"/> Review fee: \$3,375	March 3, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	March 3, 2022

Submittals

1. Elm Creek Watershed Management Commission Project Review Fee Schedule
2. Site Plans, prepared by Alliant Engineering, dated January 21, 2022, updated March 30, 2022
 - a. Sheet 1 of 14, Cover Sheet
 - b. Sheet 2 of 14, Existing Conditions Survey
 - c. Sheet 3 of 14, Preliminary Plat
 - d. Sheets 4 to 5 of 14, Site, Grading and Drainage Plan
 - e. Sheet 6 of 14, Pond and Filtration Basin Plan and Profile

- f. Sheet 7 of 14, Grading Profiles
 - g. Sheets 8 to 9 of 14, Erosion Control Plan and Details
 - h. Sheets 10 to 11 of 14, Sanitary Sewer, Watermain, Storm Sewer Plan
 - i. Sheets 12 to 13 of 14, Tree Preservation Plan
 - j. Sheet 14 of 14, Landscaping Plan
3. Geotechnical Evaluation Report, prepared by Braun Intertec, dated January 18, 2022
 4. Wetland Determination Report, prepared by Midwest Natural Resources, Inc., dated September 24, 2021
 5. *Stormwater Management Hydrologic and Hydraulic Study*, prepared by Alliant Engineering, dated November 22, 2021, updated March 30, 2022

Findings

General

1. A complete application was received March 3, 2022. The initial 60-day decision period per MN Statute 15.99 expires May 2, 2022.
2. The existing site is 8.7 acres, located in the southwest quadrant of the intersection of Dunkirk Ln N and 59th Ave N in the City of Plymouth. The site currently drains through the wooded swale to the west floodplain and overland towards the east.
3. The existing condition of the project site is two single family lots with associated driveways and outbuildings. The existing impervious area is 0.52 acre.
4. The current project proposes grading 7.6 acres and constructing 21 single family home lots and associated roadways. The proposed construction will create 1.95 acres of impervious area. The total impervious area post construction will be 2.47 acres.
5. A detention pond with a filtration bench is proposed to provide rate, volume control and water quality treatment of the site runoff.
6. Roof drainage was considered as disconnected impervious area. This was reflected in both HydroCAD model and MIDS calculator.
7. Soil borings show clayey sand, sandy silt, sandy lean clay as underlying soils throughout much of the site and beneath the proposed basin footprints, infiltration is not feasible.

Rule D – Stormwater Management (plans)

General

1. A detention pond with a filtration bench is proposed to treat all of the impervious surfaces of the site, except the back of some homes which are considered disconnected impervious surfaces. The basin will be solely used for volume, water quality, and rate control.
2. There is 0.52 acre of impervious area prior to construction. After construction, the total impervious area is 2.47 acres. New impervious area is 1.95 acres.
3. Soil borings indicate clayey sand, sandy silt, sandy lean clay (CL, ML and SC unified soil classifications) as underlying soils throughout much of the site and beneath the proposed basin footprints, infiltration is not feasible.
4. The disconnected impervious runoff and the filtration basin will both drain to a channel/swale along the southern boundary of the property. The swale directs flow to the west and ultimately discharges all drainage to Elm Creek.
5. Drainage directed towards Dunkirk Lane (east property boundary) is collected in the roadside ditch and discharged to the southern swale which is then directed to Elm Creek. Rate control will be evaluated for total runoff.
6. The detention pond with filtration bench is modeled in HydroCAD.

Rate Controls

1. The applicant provided pre- and post-development HydroCAD model output for the 2-year, 10-year, and 100-year, Atlas 14, 24-hour events which are summarized in Table 1.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
South Swale	Pre-Project	7.35	14.94	32.85
	Proposed	5.62	13.29	32.60
	Change	-1.73	-1.65	-0.25
Dunkirk Lane N	Pre-Project	3.29	6.45	13.77
	Proposed	0.18	0.36	0.78
	Change	-3.11	-6.09	-12.99
Site Total (to Elm Creek)	Pre-Project	10.64	21.39	46.62
	Proposed	5.8	13.65	33.38
	Change	-4.85	-7.74	-13.24

Abstraction Controls and Water Quality

1. The applicant proposes to provide abstraction control and water quality treatment by using a detention pond with filtration bench on site. Two 4-foot-deep sumps will provide pretreatment to the stormwater pond and filtration bench.
2. The filtration media is iron-enhanced sand. The media will provide TSS and soluble phosphorus retentions.
3. New, net impervious areas will be 1.95 acres. This equates to 7,787 cubic feet of abstraction required for a 1.1' runoff event from the new, net impervious areas.
4. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils. Soil borings completed by Braun Intertec on January 18, 2022, confirm the design assumptions relating to low infiltration capacity of native soils at the site.
5. The applicant provided water quality requirement by providing dead storage at the detention basin to hold runoff of a 2.5-in stormwater event and filtration capacity of 1.1-in of runoff.
6. The applicant provided MIDS calculator output for pre- and post-development conditions which are summarized in Table 2.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	4.1	N/A	3.3	601.9
Proposed (w/o BMP's)	9.2	N/A	7.5	1363.5
Proposed (w/ BMP's)	7.6	11,389	2.4	191.8
Change	+6.3	+11,389	-5.1	-1171.7

Operation and Maintenance

The city of Plymouth has agreed to assume responsibility of operation and maintenance of the proposed stormwater treatment facilities.

Rule E – Erosion and Sediment Control (plans)

1. Erosion control meets Commission rules.
2. The erosion and sediment control plans include a stormwater pollution prevention plan that is consistent with the MPCA and NPDES general permits. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Catch basin inlet protection
 - d. Temporary sedimentation basins
 - e. Permanent erosion control devices shown to be installed include:
 - i. Seeding/ vegetation
 - ii. Turf reinforcement mat
 - f. Stabilization of disturbed soil areas

Recommendation

Conditional Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. Updated detail for OCS 105 (Sheet 8 of 21) showing the 2'-wide by 1'-deep notch in the weir modeled in HydroCAD.
3. Eliminate the redundant 5-foot weir in the HydroCAD model for the pond outlet.
 - a. It is understood that the removal of this weir will not affect hydraulics or results for the 2-, 10- and 100-year storm HydroCAD modeling results but should be updated to be consistent with what is being constructed.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



4/5/2022

Date

Attachments

- Figure 1 Project Location
- Figure 2 Existing Drainage Map
- Figure 3 Proposed Drainage Plan
- Figure 4 Erosion and Sediment Controls

Figure 1 Project Location



Figure 2 Existing Drainage

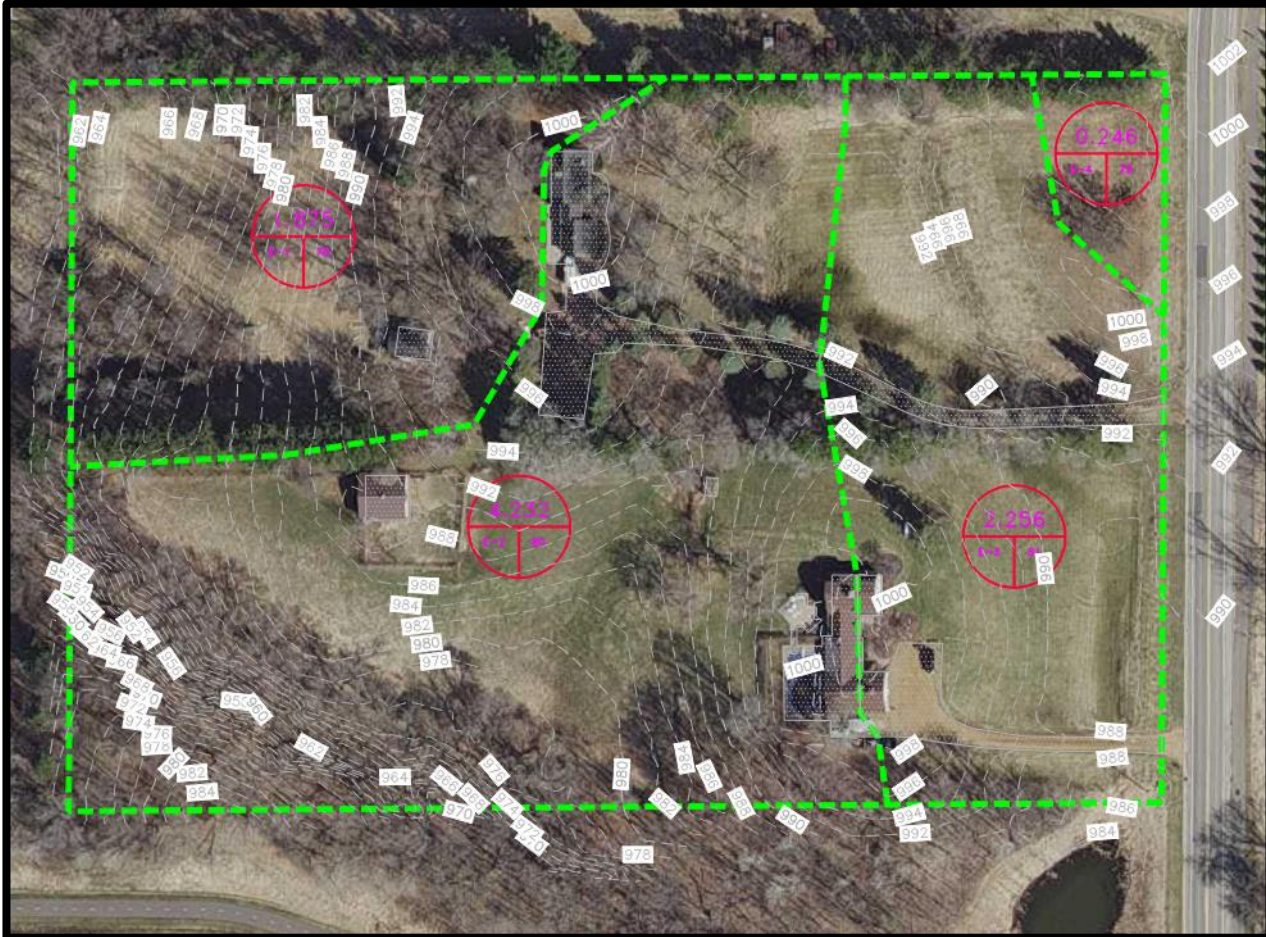


Figure 3 Proposed Drainage

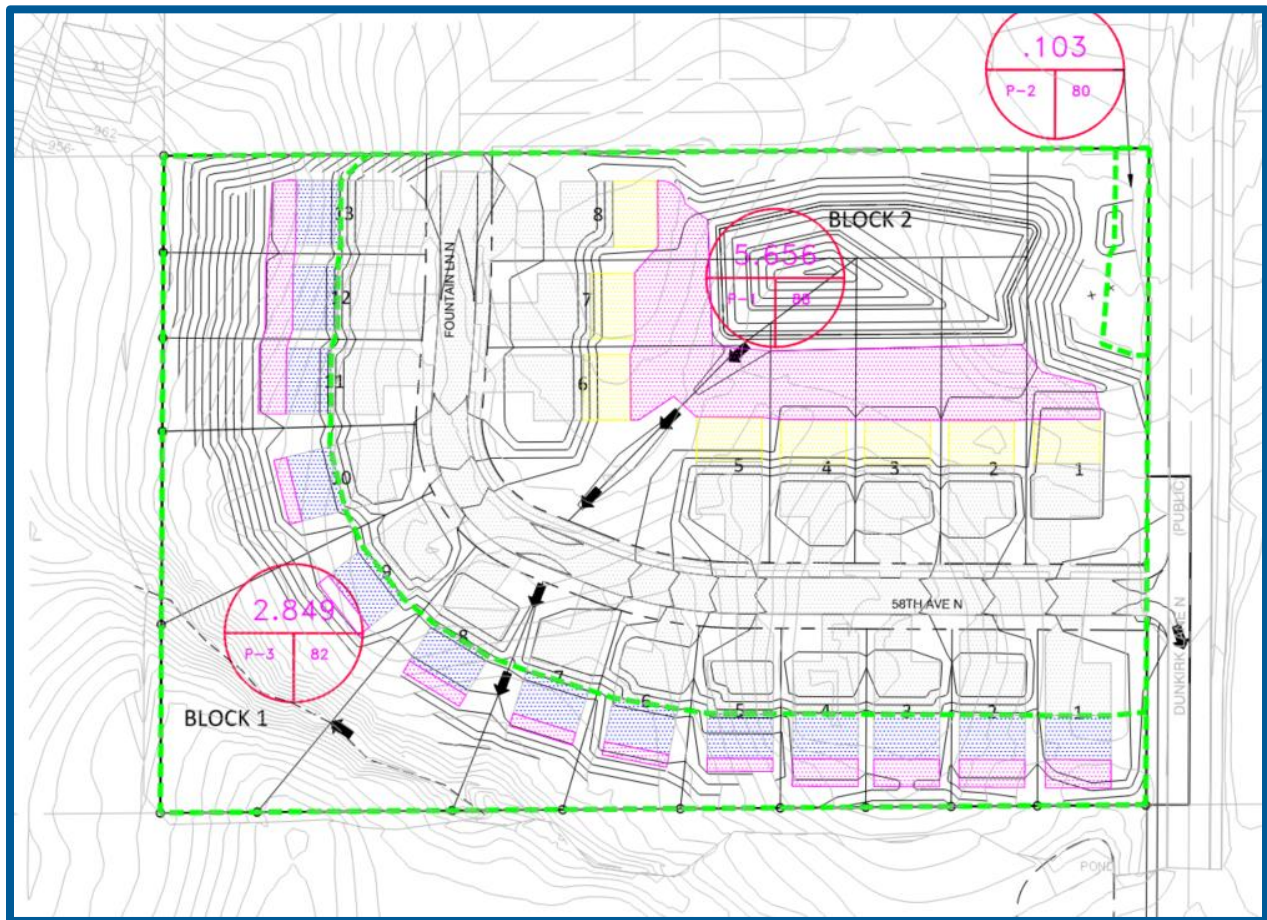
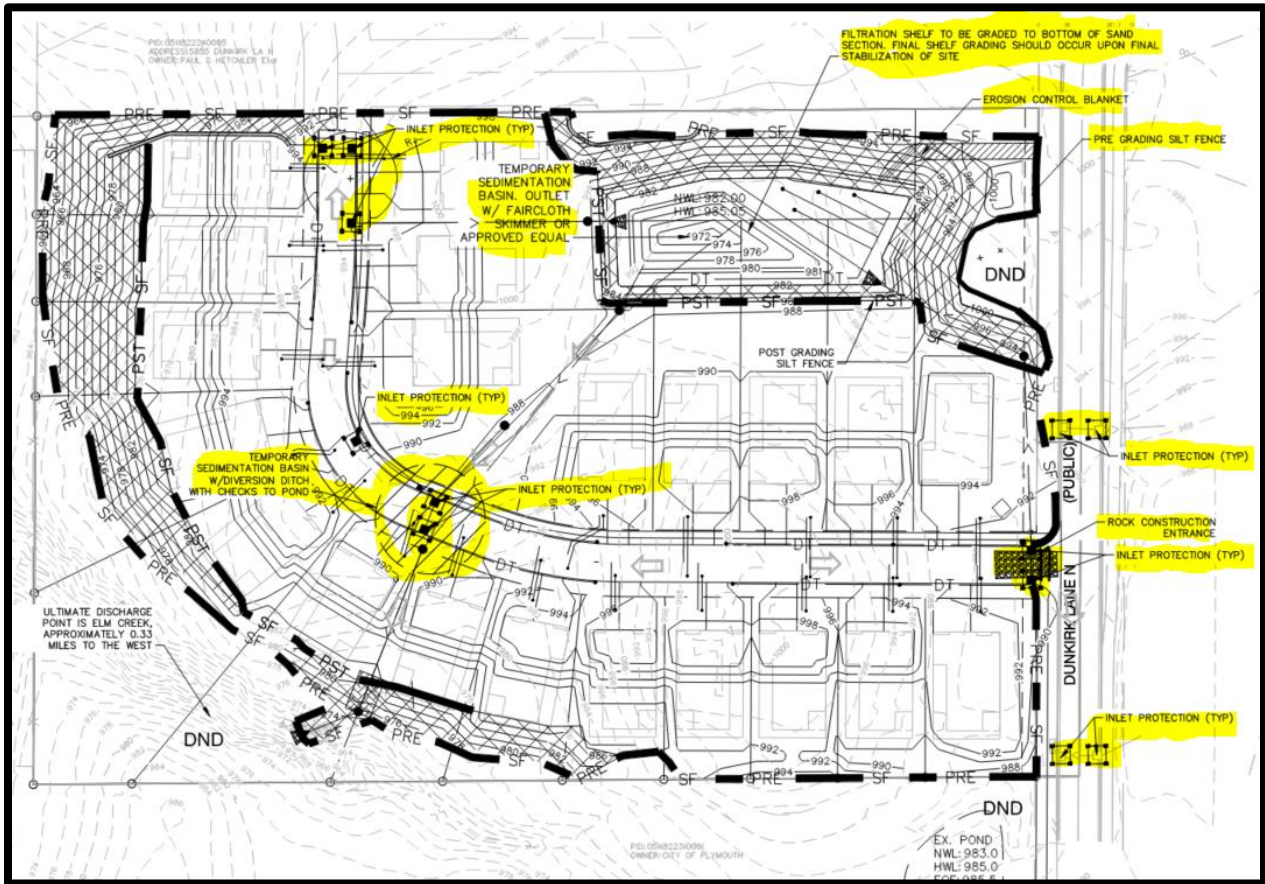


Figure 4 Erosion and Sediment Controls



To: Elm Creek WMC Commissioners

From: Diane Spector
Judie Anderson

Date: April 6, 2022

Subject: 2022 CIP Minor Plan Amendment

**Recommended TAC
Action**

Staff recommends that the Commission authorize proceeding with the attached Minor Plan Amendment and set the date for the required public meeting as the May 11, 2022, regular meeting.

The Elm Creek Third Generation Watershed Management Plan and Capital Improvement Programs (CIP) is proposed for a Minor Plan Amendment (MPA). The Technical Advisory Committee (TAC) reviewed proposed revisions at its April 13, 2022, meeting.

As recommended by the TAC, the Plan would be revised to add three new projects to the Capital Improvement Program (CIP):

- Add the Maple Grove South Fork Rush Creek Steam Restoration project to the CIP for 50% cost share in 2022 and 50% cost share in 2023.
- Add a new project to the CIP – “City Cost Share Program” – to share in the cost of small Best Management Practices (BMPs) on city projects, in accordance with the Commission’s Cost Share Policy.
- Add a new project to the CIP – “Partnership Cost Share Program” – to share in the cost of voluntary load-reduction BMPs on private property, in accordance with the Commission’s Cost Share Policy.

Two of the new projects, the City Cost Share and Partnership Cost Share programs, were approved by the Commission in August 2021. The third was submitted by the City of Maple Grove. If the Commission chooses to go forward with the Minor Plan Amendment, we recommend **setting May 11, 2022** as the public meeting at which it would be discussed. At that May 11 meeting, the Commission would discuss the proposed 2022 CIP and establish a maximum levy for 2022. The Minor Plan amendment and maximum levy would then be forwarded to Hennepin County for consideration by the Hennepin County Board.

Attached is the proposed Notice of Minor Plan Amendment. The Commission must send a copy of the proposed minor plan amendment to the member cities, Hennepin County, the Met Council, and the state review agencies for review and comment, and must hold a public meeting (not a hearing) to explain the amendment. This meeting must be public noticed twice, at least seven and 14 days prior to the meeting.

If these revisions are adopted at the May 11 meeting, the proposed 2022 CIP would be as shown in Table 1 and would be considered at a Public Hearing later this year.

Table 1. Potential 2022 CIP and levy.

Project	City	Commission Share	Levy
S Fork Rush Creek Stream Restoration	Maple Grove	\$406,250	\$430,828
City Cost Share	Various	100,000	106,500
Partnership Cost Share	Various	50,000	53,250
TOTAL		\$556,250	\$590,578

Project Descriptions

S Fork Rush Creek Stream Restoration. Stream restoration and floodplain re-establishment from 101st Avenue North, north to the confluence with the North Fork of Rush Creek. Approximately 7,200 linear feet. Estimated phosphorus reduction of 423.56 lbs per year, improved riparian environment, improved floodplain connectivity, improved recreation and access to the creek, improved education. The 2022 proposed amount of \$406,250 is ½ the total requested Commission share of \$812,500. The City has requested that Commission consider funding the other ½ from funds levied in 2023.

City Cost Share. This annual project provides cost sharing to retrofit smaller BMPs on city property on a voluntary basis. The TAC developed policies and procedures to administer these funds and makes recommendations to the Commission on which projects should be funded. The proposed levy is \$100,000, to be matched at least one-to-one by a member city or cities.

Partnership Cost Share. This program makes funds available to member cities to help fund the cost of Best Management Practices (BMPs) partnership projects with private landowners. Participating projects on private property must be for water quality improvement and must be for improvement above and beyond what would be required to meet Commission rules. The proposed levy is \$50,000, and funding does not require a match.

Notice of Minor Plan Amendment Elm Creek Watershed Management Commission

The Elm Creek Watershed Management Commission proposes to amend its *Third Generation Watershed Management Plan* to adopt revisions to Table 4.5 of that document - the Capital Improvement Program (CIP) – to add three projects and to revise Appendix G, to add descriptions of those projects.

The proposed minor plan revision is shown as additions (underlined) or deletions (~~strike outs~~).

Table 4.5. Elm Creek WMC Third Generation Plan Capital Improvement Program is hereby revised to add the following:

<u>Description</u>	<u>Location</u>	<u>Priority</u>	<u>Project Cost</u>	<u>Partners</u>	<u>Funding Source(s)</u>	<u>Commission Share</u>		
						<u>2022</u>	<u>2023</u>	<u>2024</u>
<u>South Fork Rush Creek Stream Restoration</u>	<u>Maple Grove</u>	<u>H</u>	<u>\$3,250,000</u>	<u>Maple Grove</u>	<u>City, levy</u>	<u>\$406,250</u>	<u>\$406,250</u>	<u>\$0</u>
<u>City Cost Share</u>	<u>Watershed</u>	<u>M</u>	<u>100,000</u>	<u>Cities</u>	<u>Cities, levy</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>
<u>Partnership Cost Share</u>	<u>Watershed</u>	<u>M</u>	<u>50,000</u>	<u>Owners</u>	<u>levy</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>

Appendix G, CIP Descriptions is hereby revised as follows:

S Fork Rush Creek Stream Restoration. Stream restoration and floodplain re-establishment from 101st Avenue North, north to the confluence with the North Fork of Rush Creek. Approximately 7,200 linear feet. The cost is split 50/50 between 2022 and 2023.

City Cost Share. This annual project provides 50% cost sharing to complete smaller projects on city property on a voluntary basis in accordance with policies and procedures established by the Commission.

Partnership Cost Share. This program provides up to 100% cost sharing to member cities to complete smaller partnership projects with private landowners. Participating projects on private property must be for water quality improvement and must be for improvement above and beyond what would be required to meet Commission rules.



3235 Fernbrook Lane
Plymouth, MN 55447
(763) 553-1144
Fax: (763) 553-9326
judie@jass.biz

To: Elm Creek Commissioners
Cc: Technical Advisory Committee
From: Judie Anderson
Date: April 5, 2022
Subject: Call for a Public Meeting – Minor Plan Amendment

**THIS MEMO SERVES AS AN ADDENDUM
TO STANTEC'S APRIL 6 MEMOS.**

At the April 13, 2022, meeting it is anticipated the Commission's Technical Advisory Committee (TAC) will make the following recommendations to the Commission:

A. Revise the Capital Improvement Program:

1. Move the following projects:
 - a. Line 11 Fox Creek South Pointe, Rogers, from 2022 to 2023, (est cost \$90,000, Comm share \$22,500)
 - b. Line 19 Ranchview Wetland Restoration, Maple Grove, from 2022 to 2025 (est cost \$2,500,000, Comm share \$250,000)
 - c. Line 30 Downtown Pond Expansion and Reuse, Rogers, from 2022 to 2023 (est cost \$406,000, Comm share \$101,500)
 - d. Line 37 Lowell Pond Raingarden, Champlin, from 2022 to 2024 (est cost \$400,000, Comm share \$100,000)
 - e. Line 49 Tower Drive West Stormwater Improvements, Medina, from 2022 to 2024 (est cost \$271,250, Comm share \$67,813)
2. Add the following projects:
 - f. Line 50* South Fork Rush Creek Stream Restoration Ph 1 and 2, Maple Grove (est cost \$3,250,000, Comm share \$406,252 each in 2022 and 2023)
 - g. Line 56* Rush Creek Eastman Nature Center, Oxbow Trail Channel Stabilization, Maple Grove (est cost \$100,000, Comm share \$25,000 in 2023)
 - h. Line 57* City Cost Share (\$100,000 in 2022 and subsequent years)
 - i. Line 58* Partnership Cost Share (\$50,000 in 2022 and subsequent years)
3. Consider adding the following projects
 - j. Line 51** Update City-wide Stormwater Model, Champlin (est cost \$50,000, Comm share \$12,500 in 2024)
 - k. Line 52** Reconstruct Bridge at Cartway and Elm Creek, Champlin (est cost \$950,000, Comm share \$237,500 in 2024)
 - l. Line 53** Lemans Lake Water Quality Improvements, Champlin (est cost \$100,000, Comm share \$25,000 in 2026)
 - m. Line 54** Goose Lake Road Area Infiltration Improvements TMDL, Champlin (est cost \$200,000, Comm share \$50,000 in 2026)
 - n. Line 55 Mill Pond BMPs Water Quality Project Area, Champlin (est cost \$200,000 Comm share \$50,000 in 2026)

* TAC has received feasibility report or similar back-up information

** TAC has not received back-up information

B. Approve the following revisions to the Elm Creek Watershed Management Commission's Rules and Standards:

1. Revise Rule A to include the definition of fully reconstructed impervious surfaces:
 - a. *"Fully Reconstructed Impervious Surfaces. Areas where impervious surfaces have been removed down to the underlying soils. Activities such as structure renovation, mill and overlay projects, and other pavement rehabilitation projects that do not expose the underlying soils beneath the structure, pavement, or activity are not considered fully reconstructed. Maintenance activities such as catch basin repair/replacement, utility repair/replacement, pipe repair/replacement, lighting, and pedestrian ramp improvements are not considered fully reconstructed."*
2. Revise Rule A to include the definition of linear projects:
 - a. *"Linear project". Linear projects are projects with construction of new or fully reconstructed roads, trails, sidewalks, or rail lines that are not part of a common plan of development or sale."*
3. Revise Rule D.2.b:
 - a. Existing: *"Linear projects that create one acre or more of new impervious surface must meet all Commission requirements for the net new impervious surface. Sidewalks and trails that do not exceed twelve feet (12'0") in width, are not constructed with other improvements, and have a minimum of five feet (5'0") of vegetated buffer on both sides are exempt from Commission requirements."*
 - b. Proposed: *"Linear projects that create one acre or more of new or fully reconstructed impervious surfaces must meet all Commission requirements for 1.1-inches of runoff from the new impervious surface or 0.55-inches from the combination of new and fully reconstructed impervious surfaces, whichever is greater."*
 - c. *Linear projects that create one acre or more of new or fully reconstructed impervious must meet all Commission requirements for 1.1-inches of runoff from the new impervious surface or 0.55-inches from the combination of new and fully reconstructed impervious surfaces, whichever is greater. When this volume cannot be treated within the existing right-of-way, a reasonable attempt to obtain additional right-of-way, easement, or other permission to treat the stormwater during the project planning process must be made. Volume reduction practices must be considered first. Volume reduction practices are not required if the practices cannot be provided cost effectively. If additional right-of-way, easements, or other permission cannot be obtained, owners of construction activity must maximize the treatment of the water quality volume.*
4. Revise Rule D.3.c a.
 - a. Existing: *"Stormwater runoff volume must be infiltrated/abstracted onsite in the amount equivalent to one point one inch (1.1") of runoff generated from new impervious surface."*
 - b. Proposed: *"For non-linear projects, stormwater runoff volume must be infiltrated/abstracted onsite in the amount equivalent to one point one inch (1.1") of runoff generated from new and fully reconstructed impervious surfaces."*

ACTION:

If these actions are approved by the Commission, a public meeting must be ordered to present the actions in the form of a Minor Amendment to the Commission's Third Generation Watershed Management Plan and to take comment from the member cities and the public. The purpose of the public meeting is NOT to approve going forward with any of the capital projects. The public meeting would occur during the May 11, 2022, regular meeting of the Commission.

DRAFT

Elm Creek Watershed Management Commission 2021 Annual Activity Report

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Appendices

- A. Commissioners | Staff | Consultants
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- D. Stream Monitoring
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- I. 2022 Budget

This report was prepared
for the Elm Creek Watershed Management Commission
by JASS, Inc.
For more information about this report, contact Judie@jass.biz

We gratefully acknowledge the assistance of:
Eric Megow, Stantec Consulting Services,
James Kujawa, Surface Water Solutions LLC,
Brian Vlach and Amy Timm, Three Rivers Park District

About the cover photograph:

Photo courtesy of

This annual activity report, prepared by the Elm Creek Watershed Management Commission in accordance with the annual reporting requirements of Minnesota Rules Chapter 8410.0150 Subp. 2-3, summarizes the activities undertaken by the Commission during calendar year 2021.

≡ THE COMMISSION

The Elm Creek Watershed Management Commission was established to protect and manage the natural resources of the Elm Creek watershed. A Board of Commissioners comprised of representatives appointed by the member communities was established as the governing body of the Commission. Its members are the cities of Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth, and Rogers.

MEETINGS The Commission normally meets monthly on the second Wednesday at 11:30 a.m. at Maple Grove City Hall, 12800 Arbor Lakes Parkway. The meetings are open to the public and visitors are welcome. Meeting notices, agendas and approved minutes are posted on the Commission's website. www.elmcreekwatershed.org. However, due to the COVID-19 pandemic, beginning in April 2020 the Commission has met virtually via zoom.us. All other meeting criteria remained the same.

COMMISSIONERS | TECHNICAL ADVISORY COMMITTEE | STAFF Appendix A includes the names of the Commissioners and their Alternates appointed to serve in 2021. Also listed there are the members of the Commission's Technical Advisory Committee (TAC) along with the individuals/firms serving as the Commission's administrative, legal, and technical support staff. The Commission has no employees.

≡ THE WATERSHED

The Elm Creek watershed covers approximately 130.61 square miles and lies wholly within the north central part of Hennepin County, Minnesota. The Crow and Mississippi Rivers demarcate the northern boundary. Although some areas in the north drain to the Crow and Mississippi Rivers, they are within the legal boundaries of the Elm Creek watershed. Table 1 shows the area share of the member communities in the watershed. A map of the watershed may be viewed on the following page.

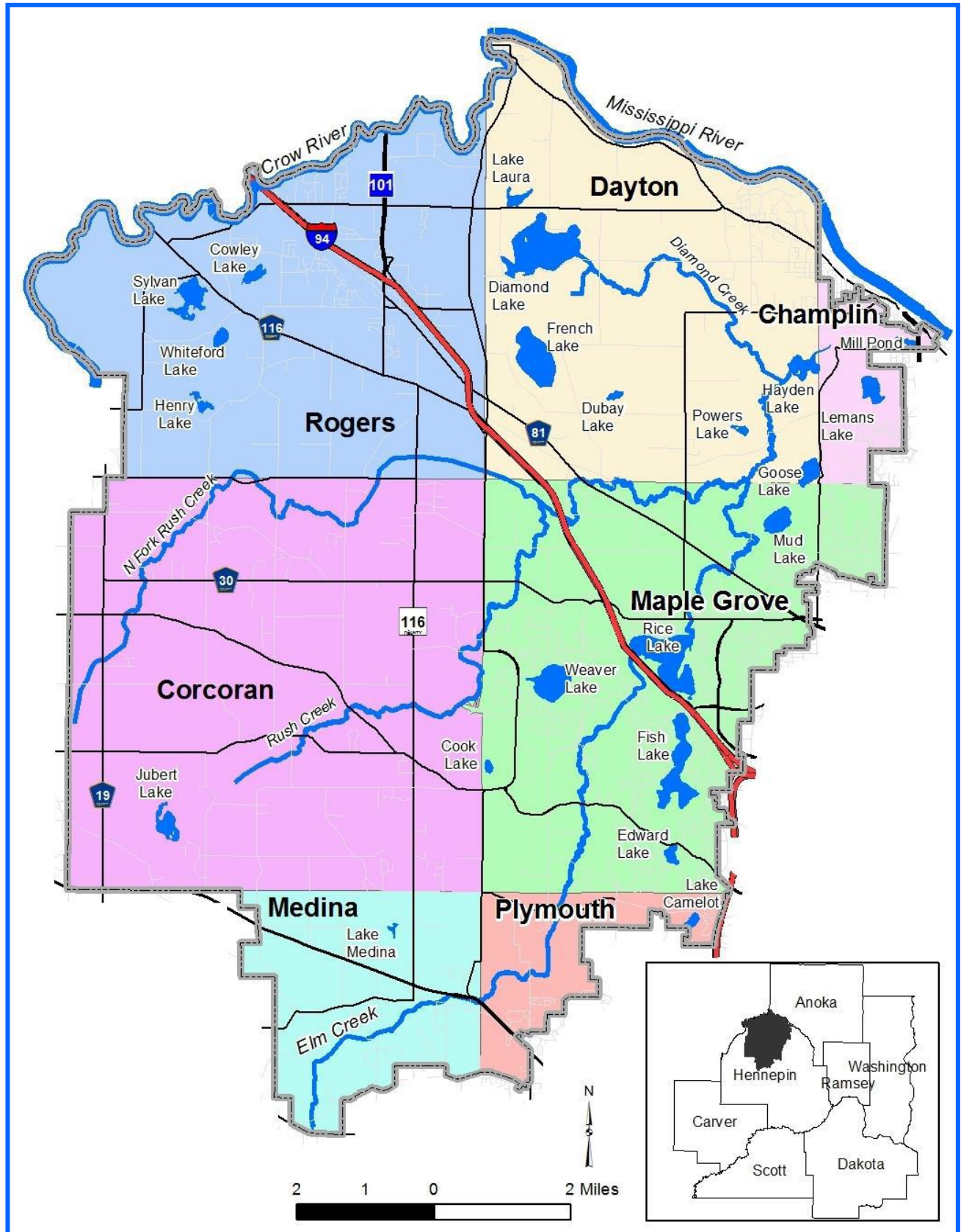


Table 1 - Area of Members within the Elm Creek Watershed

Local Government Unit	Area (Square Miles)	%age of Watershed
Champlin	3.08	2.36%
Corcoran	36.06	27.61%
Dayton	25.17	19.27%
Maple Grove	26.32	20.15%
Medina	9.34	7.15%
Plymouth	4.44	3.40%
Rogers	26.20	20.06%
Total	130.61	100.0%

≡ THE WATERSHED PLAN

The Elm Creek Watershed Management Commission adopted its Third Generation Watershed Management Plan on October 14, 2015. The Third Generation Plan describes how the Commission will manage activities in the Elm Creek watershed in the ten-year period 2015-2024.

The Plan includes information required by Minnesota Administrative Rules Chapter 8410, Local Water Management: 1) an updated land and water resource inventory; 2) goals and policies; 3) an assessment of problems and identification of corrective actions; 4) an implementation program; and 5) a process for amending the Plan. This Plan also incorporates information and actions identified in the Elm Creek Watershed-wide Total Maximum Daily Load study (TMDL) and Watershed Restoration and Protection Strategy study (WRAPS), completed between 2009 and 2016.

The Commission, along with the Citizen and Technical Advisory Committees (CAC and TAC), identified the following issues during development of the plan:

- **Water quality**—numerous lake and stream impairments, impact of land use changes, stream stability.
- **Agricultural impacts on water quality**—increase agricultural BMPs, develop effective mechanisms to encourage voluntary adoption, more effective outreach.
- **Funding**—maintaining a sustainable funding level; funding capital projects.

- **Other issues**—lack of information and knowledge of water quality issues and actions by multiple stakeholders; need to be realistic and prioritize actions; increase member city involvement; foster collaboration with other agencies.

Through identification of these issues, the Commission developed the following priorities to guide water resources planning and management functions:

- **Implement priority projects**, provide cost-share to member cities to undertake projects to help achieve WRAPS lake and stream goals.
- **Use results of WRAPS study to establish priority areas**, complete subwatershed assessments to identify specific BMPs that feasibly and cost-effectively reduce nutrient and sediment loading to impaired water resources.
- **Develop model manure management ordinance** to regulate placement of new, small non-food animal operations; require member cities to adopt that or other ordinances and practices to accomplish its objectives.
- **Partner with other organizations to complete pilot project** for targeted fertilizer application, increase and focus outreach to agricultural operators.
- **Continue participating in joint education and outreach activities** with the West Metro Water Alliance (WMWA) and other partners.

The Commission's goals and policies are enumerated in *Appendix B*.

LOCAL PLANS

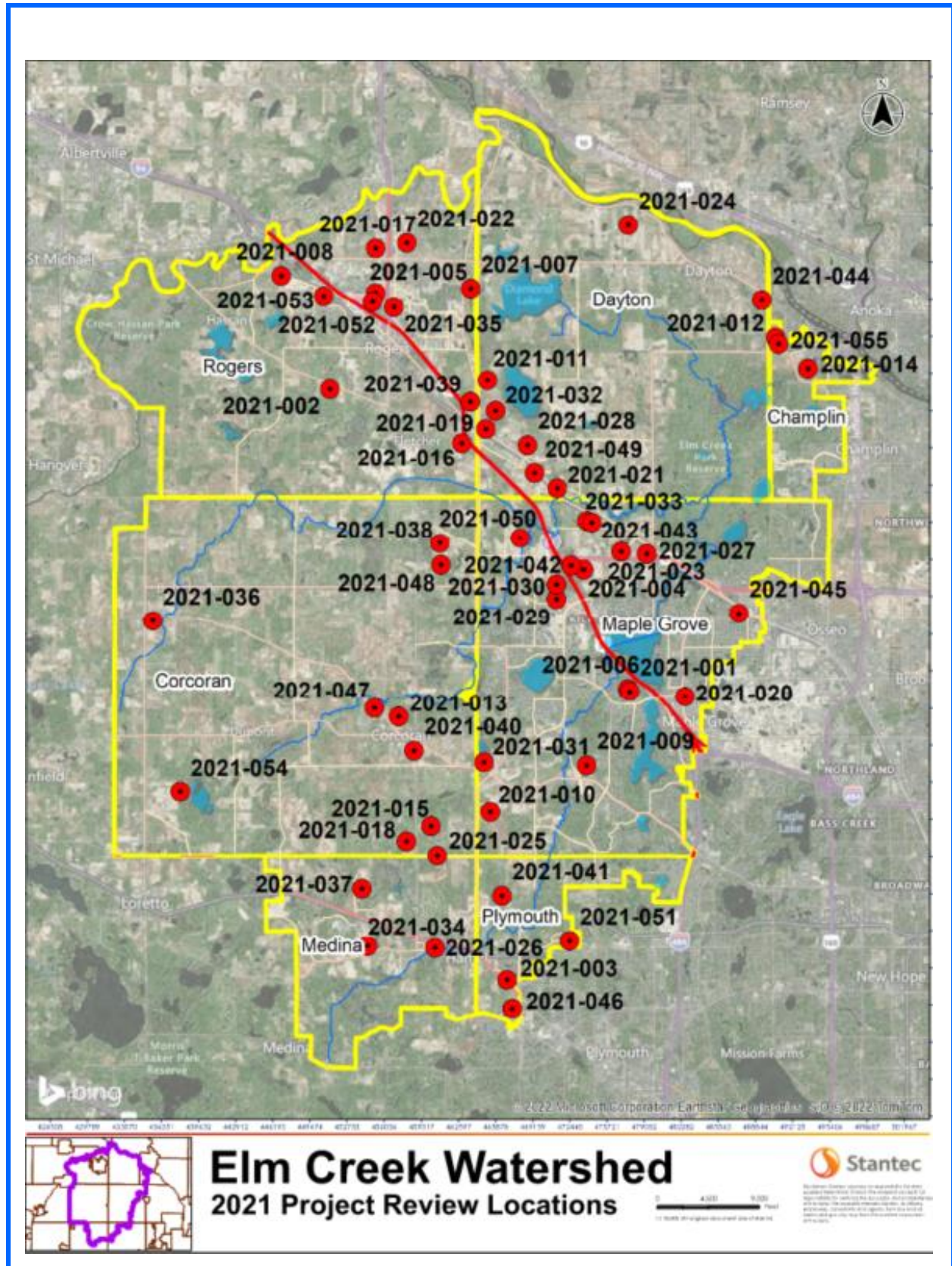
Member cities are required to adopt their own local water management plans. These plans must be consistent with the Commission's Watershed Management Plan and comply with MN Statutes, Section 103B.235, and MN Rules 8410 regarding local plan content.

≡ 2021 WORK PLAN IN REVIEW

The Elm Creek Commission identified a number of activities to be undertaken in 2021. The activities are categorized as Technical, Monitoring, Education, Projects and Capital Improvements, and Administrative, and are described below. The progress the Commission made toward completing these activities is shown in *italics*. The 2021 Work Plan was approved on January 12, 2022

TECHNICAL

- § Continue to review local development/redevelopment plans for conformance with the standards outlined in the Commission's Third Generation Watershed Management Plan. Implement 2021 project review policy, application form, and fee schedule. *At December 31, 2021, the Commission's technical advisors had reviewed fifty-five projects. A variance from the Commission's Rules was granted for one project. The escrow fee schedule will be evaluated at year-end to determine how well it is meeting the Commission's goal of funding the costs of reviewing the projects. Appendix C lists these projects; a map showing their locations follows on page 6.*
- § Complete Special Flood Hazard Areas on the FEMA Floodplain maps located within the watershed into current modeling packages. The total budget for this project in Elm Creek is \$92,772.45. The DNR provided funding for this project through a FEMA grant that did not require a local match. At December 25, 2020, eight percent of the original budget remained, not including \$14,800 of additional work authorized by the DNR in December 2020 and an additional \$1,200 for the revision of 12 subwatersheds and update of the HEC-HMS model inputs for those subwatersheds. The term of the contract ended March 31, 2021. Barr Engineering submitted final deliverables for the project on that date. *At the Commission's May 12, 2021, meeting some member cities reported significant differences between the flood elevations in their community hydrologic and hydraulic models and those included in the Elm Creek Floodplain Modeling and Mapping HUC-8 study. The Commission voted to complete a third-party review to ensure the study was based on the best information available to ensure a floodplain that accurately reflects the base flood in the watershed. Stantec Consulting Services was hired to perform the third-party review. Stantec's review was presented to the Commission's Technical Advisory Committee on January 12, 2022.*
- § Convene a meeting of the Technical Advisory Committee to review any discrepancies between the Commission and member city Rules and Standards. *On August 26, 2021, the TAC began its review with discussion regarding the challenges related to low elevations/low openings adjacent to flashing waterbodies such as ponds, an issue that became relevant when reviewing a project for which a variance was approved. They worked from a flow chart created by Staff that summarized the review path taken by the Commission's Technical Staff when reviewing projects. They will continue their discussions at future TAC meetings.*



§ *As a result of recommendations from the Technical Advisory Committee (TAC) the Commission: on August 11, 2021, adopted the (1) a Policy on Funding Internal Load Reduction Projects, (2) Cost Share Guidelines on Municipal Property, and (3) Cost Share Guidelines on Private Property; on September 8, 2021, adopted a Policy on Cost Share for Equipment and Non-Structural Practices; and on December 8, 2021, approved a revision to the Commission's Cost Share Policy, removing the requirement that "subwatershed assessment projects be identified in areas outside of the Municipal Urban Service Area (MUSA)."*

MONITORING

- § Continue to partner with the Three Rivers Park District (TRPD) to share in the costs of conducting lake and stream monitoring in the watershed. *In 2021 TRPD monitored Elm Creek at 77th Avenue (ECF77); Rush Creek at Territorial Road (RT); and Diamond Creek within the Elm Creek Park Reserve (DC). Continuous flow was collected in open channel morphology that required the development of a stage-discharge rating curve at each sampling site. TRPD took manual flow and depth measurements at stream cross-section intervals for the development of a stage-discharge rating curve to estimate flow at each sampling site. Each sampling site also had automated equipment to collect water samples for nutrient analysis during storm events. Water samples were also manually collected bi-weekly for nutrient analysis during base-flow conditions. All water quality samples collected were analyzed for total phosphorus, soluble reactive phosphorus, total nitrogen, and total suspended solids. (Appendix D.)*
- § TRPD will also monitor four of fifteen lakes in the Elm Creek watershed (Diamond, Fish, Rice main body, and Weaver) in 2021. *Three Rivers Park District monitored the water quality of seven lakes within the Elm Creek watershed. Water quality samples were collected bi-weekly for the four Sentinel Lakes (Fish, Rice, Diamond, and Weaver) as well as three other lakes (Mill Pond, Goose, and Mud) that haven't been monitored since the watershed TMDL was completed. All the lakes had temperature/dissolved oxygen profiles collected at 1-m intervals from the surface to the bottom; and water quality samples were collected at the surface for analysis of total phosphorus, soluble reactive phosphorus, total nitrogen, and chlorophyll-a. Since two of these lakes (Fish and Weaver) frequently stratify during the summer, water quality samples were also collected at the top of the hypolimnion and 1-m from the bottom for analysis of total*

phosphorus and soluble reactive phosphorus. Point-intercept aquatic vegetation surveys were also conducted in the spring and fall to assess the plant community in four of the lakes (Fish, Mill Pond, Goose, and Mud). Lake report cards are found in Appendix E.

§ In addition, under the five year-cooperative agreement, the Commission and the Park District provided financial support to assist the monitoring efforts of the United States Geological Survey (USGS) stream gauging station on Elm Creek within the Elm Creek Park Reserve. *Twelve monthly manual samples were collected to represent the variations in hydrologic conditions and physical and laboratory analyses of chemicals were also taken. A refrigerated automatic sample was used to collect eight composited samples of runoff events. They were discharge-weighted and collected during increasing or peak streamflow and analyzed for the same constituents as the manual samples. Analysis was completed for Total Phosphorus, Dissolved Phosphorus, Total Ammonia plus Organic Nitrogen, Dissolved Ammonia Nitrogen, Dissolved Nitrite plus Nitrate Nitrogen, Total Suspended Solids, Volatile Suspended Solids, Chemical Oxygen Demand, and Dissolved Chloride. Physical measurements included Water Temperature, Specific Conductance, and pH. Real time data from the monitoring station may be viewed on the Internet at http://waterdata.usgs.gov/mn/nwis/uv/?site_no=05287890&PARAMeter_cd=00065,00060. Learn more about the monitoring station in Appendix F.*

§ Fund the monitoring of one lake through Metropolitan Council's Citizen Assisted Monitoring Program (CAMP). *It was the intent to monitor French Lake in 2021; however, due to the inaccessibility of open water likely due to drought conditions, the volunteer could not perform the monitoring. CAMP monitoring results are available on the Met Council's website, <https://metro council.org/Wastewater-Water/Services/Water-Quality-Management/Lake-Monitoring-Analysis/Citizen-Assisted-Monitoring-Program.aspx>. For more information about CAMP, refer to Appendix G.*

§ Participate in the Minnesota Wetland Health Evaluation Program (WHEP) with four wetlands in 2021. *Due to the COVID 19 pandemic, volunteers did not participate in WHEP in 2021.*

EDUCATION AND PUBLIC OUTREACH

§ Promote river stewardship through Hennepin County's RiverWatch program with three sites in 2021. *Due to the COVID 19 pandemic, volunteer invertebrate monitoring did not occur in 2021.*

- § Continue as a member of the West Metro Water Alliance (WMWA). *Due to the pandemic, Watershed PREP (Protection, Restoration, Education, and Prevention) classes were cancelled or conducted virtually. Only classes at one school were taught in-person. A new Educator was hired in late 2021 and will begin reaching out to schedule classroom visits in 2022. A video of the Watershed PREP class is available on the WMWA website for home school or classroom viewing. <http://www.westmetrowateralliance.org/>*

Responding to the new NPDES Permit Requirements, in 2021 members focused on developing three flyers with educational content regarding pet waste, chlorides/salt, and illicit discharge. They may be viewed in (Appendix H).

The Commission approved the revisions to WMWA's Education and Outreach Plan on August 11, 2021. The revisions are also enumerated in Appendix H.

- § Promote "Lawns to Legumes," a program for residents to seed their lawns with a bee lawn mix, targeting habitat for the Rusty-patched bumblebee, an endangered species. The Board of Water and Soil Resources (BWSR) partnered with Metro Blooms and Blue Thumb to administer the program which received funding from the Environment and Natural Resources Trust Fund. *During the 2021 pilot phase, over 175,000 people viewed the Lawns to Legumes pages on BWSR's and Blue Thumb's websites. More than 7,500 people statewide applied for the Individual Support grants through the Blue Thumb website. Over 3000 residents have been supported by the program (between 1200 receiving funding and over 2000 attending workshops) and likely over 10,000 people when people doing DIY projects using Blue Thumb resources are included.*

At the end of October 2021 more than 1000 trees and shrubs had been planted, more than 800,000 square feet of pollinator habitat had been created, and many thousands of hours had been spent on planting projects to protect pollinators.

(It was announced in March 2022 that, in this latest round of funding, more than 700 Minnesota residents received Individual Support grants and 20 local governments and nonprofit organizations received Demonstration Neighborhood grants.)

- § Sponsor workshops as part of the Commission's Education and Public Outreach Program. The workshops are presented by Metro Blooms. *Since the pandemic precluded holding in-person workshops, a new Blue Thumb training program was implemented to teach participants skills in inspecting and caring for raingardens and other green infrastructure, all within a framework of eco-friendly landscaping practices. People who take part in the*

three-session program receive a Sustainable Landcare Certificate. Participants in the program first receive Stormwater Basics, learning about watersheds and how water travels in our urban environment. They also learn how raingardens are built, how they work, and how to inspect them to ensure that they function properly. An important part of the program is identifying weeds, a major culprit of dysfunctional raingardens, and then choosing a way to manage them (without chemicals, if possible).

- § Continue as a member of Blue Thumb and WaterShed Partners. *Administrative staff attended these virtual meetings, providing updates to the Commissioners at their monthly meetings.*
- § Continue to work in partnership with the University of Minnesota's agriculture specialist to help build relationships with the agricultural community in the watershed to achieve TMDL load reductions. *Hennepin County sent out mailers to agricultural producers in the Summer to advertise potential BMP projects that could be implemented in order to achieve load reductions outlined in the Rush Creek Subwatershed Assessment, while improving land management. Mailers were tailored towards the needs of either crop farmers or those who manage livestock to describe BMPs that would be most applicable for each situation. Eight landowners responded and are currently working with Hennepin County to design BMP projects on track to be implemented in spring/summer of 2022.*
- § Work with the Hennepin County Rural Conservation Specialists. Assist landowners in identifying BMPs for implementation throughout the watershed. Work with member cities to identify projects that will result in TMDL load reductions. *Hennepin County Environment and Energy Staff will collaborate with landowners to identify BMP projects as well as larger, more strategic projects for inclusion on the Commission's Capital Improvement Program (CIP). Through a variety of outreach efforts, Hennepin County specialists are collaborating with landowners to identify which BMPs would be the most effective. In addition, Hennepin County staff is also working more closely with the City of Corcoran to ensure that their office is aware of ongoing projects, while looking for other opportunities to leverage resources to implement further BMP projects. The County will look to expand this coordination as able.*
- § Continue to populate and maintain the Commission's website www.elmcreekwatershed.org to provide news to residents, students, developers, and other individuals interested in the water resources of the watershed. *In 2021 the website had 2,843 total*

users. Of these, 2,791 were new users in 2021. A total of 4,279 sessions occurred among all users, averaging 1.98 pages per session.

PROJECTS AND CAPITAL IMPROVEMENTS

§ Send call out to member cities, requesting them to provide updates to the projects already included on the Commission's Capital Improvement Program (CIP) as well as inform the Commission of new projects that they would like to have considered for inclusion on the CIP. Hold public meeting, adopt an amendment to the Third Generation Watershed Management Plan, conduct public hearing, and certify levy to Hennepin County. *The Technical Advisory Committee (TAC) convened May 5, 2021, to update the 2020 CIP. At that meeting the members received revisions, additions, and deletions to the 2020 CIP spreadsheet from the member cities. Four projects were removed at the request of the city (Maple Grove), two projects were added, one each in Dayton and Medina; and three projects were updated, either for cost or for year of construction. These revisions were approved by the TAC and recommended to the Commission.*

On June 9, 2021, the Commission conducted a Public Meeting at which time it adopted Resolution 2021-03 Adopting a Minor Plan Amendment pursuant to the recommendation of the TAC and set the 2021 maximum levy at \$291,638. The Hennepin County Board approved the Minor Plan Amendment and set a 2021 maximum levy of \$291,638 for the Elm Creek Commission on August 3, 2021.

At their August 11, 2021, meeting, the Commission called for a public hearing to be held on September 8, 2021, to consider two projects for levy in 2021, pay 2022. They are:

Project 2021-01: Elm Road Area/Everest Lane Stream Restoration, Maple Grove. Stream restoration along 800 LF of intermittent stream to reduce sediment and nutrient release to Elm Creek, reducing Ph and TSS loading by 15 lbs./year and 15 tons/year, respectively, and improving DO and habitat for fish and invertebrates. Proposed Levy: \$132,563.

Project 2021-02: Elm Creek Stream Restoration Phase V Hayden Lake Outfall, Champlin. 3,800 LF of stream bank restoration located upgradient of the Mill Ponds. Proposed construction will improve impaired water with low DO, restoring the stream banks and providing habitat structure. Proposed Levy: \$159,075.

At the September public hearing, with no written or verbal comments having been received from the cities, reviewing agencies, or the public, the Commission adopted Resolution 2021-04 Ordering [the] 2021 Improvement Projects, Designating Members Responsible for Construction and Making Findings and Designating Commission Cost-Share Funding. On September 13, 2021, the Commission informed the County Board of the Commission's final levy request for 2021 (payable 2022) of \$291,638.

- § Undertake high priority projects identified in the Rush Creek Headwaters Subwatershed Assessment. *Best management practices that will reduce nutrient, sediment, and bacterial contamination in the Rush Creek Watershed have been completed over the past year or are currently nearing implementation. Projects that were completed in 2021 included a waterway and Water And Sediment COntrol Basin (WASCOB) as a part of the Jubert Lake Agricultural BMPs Project. More high priority projects related to curbing manure runoff, such as manure bunkers and filter strips, have been identified and are in the initial stages of planning. Larger projects such as the Jubert Lake Agricultural BMPs, are entering second phases that will include more intensive practices such as wetland restorations and grassed waterways.*

The 2021 Services Agreement between Hennepin County and the Commission was amended so that the Commission's Technical Advisor, Stantec Consulting Services, could develop a manure bunker AutoCAD design for the County. This work was completed in 2021.

- § For the 2020-2021 biennium of the Watershed-Based Funding program (WBIF), the Board of Water and Soil Resources (BWSR) allocated funding based on major watershed divides. Elm Creek is in the Mississippi West Major Watershed (MWW) which was allocated \$874,153. A partnership was created consisting of at least one representative from each watershed district, watershed management organization, soil and water conservation district, county and at least two municipalities within the MWW. *The Commission submitted two projects, Rush Creek Restoration and Elm Creek Restoration with requests of \$200,000 and \$300,000, respectively. After criteria ranking, Elm Creek was awarded \$281,996.20 to be put toward one or both projects at the discretion of the Commission. A 10% local match is required. Funds from other grant programs will be pursued to complete these stream restorations. Funds from these grants expire December 31, 2023.*
- Elm Creek is also in the North Fork Crow (NFC) major watershed which was allocated \$91,105.00; however, no projects were identified within the major watershed area to use the funding, so it was relinquished to other participants.*

- § Support the City of Dayton and its partners to continue efforts for completion of the Diamond Lake subwatershed assessment. *The final report is substantially complete. The report and results will be presented to the City in early 2022.*
- § Support the City of Maple Grove and its partners as they undertake a subwatershed assessment for Weaver Lake. *The engineering firm, WSB Engineering, was engaged by the City to undertake the assessment. In their final report WSB recommends pursuing the installation and construction of multiple BMPs in a variety of locations within the Weaver Lake subwatershed to maximize pollutant load treatment. Many of these BMPs are underground treatment structures which will improve storm water quality and allow for easier routine maintenance. WSB also recommends inspecting the outfalls consistent with the City's MS4 permit to determine if a sediment removal project should be completed at the outfalls. They also recommended that water quality and sediment sampling should continue through annual monitoring activities and vegetative management and maintenance should continue according to the 2018 Weaver Lake Management Planning and Guidance document.*
- § Support the City of Corcoran and its partners as they undertake a subwatershed assessment for the South Fork of Rush Creek. A small portion of the South Fork also flows through the cities of Maple Grove and Medina. *The City of Corcoran applied and was approved for funding in February 2020 by the Commission for an assessment of the subwatershed draining to the South Fork of Rush Creek, to be completed by Wenck Associates (now Stantec) at a total cost of \$58,800. The Commission will pay 14% (\$8,820), with the proceeds from a Clean Water Fund Grant (or similar) and the cities of Corcoran, Medina, and Maple Grove paying the remainder. City Staff recognize a need to generate local funds and have discussed a stormwater utility as development expands into the MUSA area as well as considerations for rural Corcoran. Council level discussions are likely to occur in 2021. Council has approved a Stormwater Area Charge Study to evaluate options with results anticipated to be presented to the Council in second quarter 2022.*

ADMINISTRATIVE

- § Conduct the biennial solicitation of interest proposals for administrative, legal, and technical consultants. *Solicitations were published in the December 14, 2020, edition of the State Register. Five engineering firms, one legal firm, and one administrative service provider responded. Campbell Knutson, P.A., and Judie Anderson's Secretarial Services,*

Inc. were selected to perform legal and administrative services, respectively, at the Commission's January 13, 2021, meeting. Wenck/Stantec was chosen as the Commission's technical advisor at the February 11, 2021, meeting.

- § Adopt a 2022 operating budget. *At its June 9, 2021, regular meeting, the Elm Creek Commission approved a 2022 operating budget totaling \$931,405. To fund this budget the Commission approved member assessments of \$237,300, a zero increase over the past two years' assessments. (Appendix I.)*
- § Publish an annual activity report summarizing the Commission's yearly activities and financial reporting. *The 2020 Annual Activity Report was accepted by the Commission at its April 14, 2021, meeting and made available to the member cities and the public on the Commission website, <http://www.elmcreekwatershed.org/annual-reports.html>.*
- § Participate with the Board of Water and Soil Resources (BWSR) in a Performance Review and Assistance Program (PRAP) Level II Review. *At the Commission's September 8, 2021, meeting Brett Arne described BWSR's Performance Review and Assistance Program and presented the results of the review of the Elm Creek Commission. This was a Level II review, conducted by BWSR once every ten years for every local government unit. Its focus is on the degree to which an organization is accomplishing its water management plan. A Level II review includes determination of compliance with BWSR's Level I and II statewide performance standards, a tabulation of progress on planned goals and objectives, a survey of staff and board members of the factors affecting plan implementation, a survey of the Commission's partners about their impressions of working with the Commission, and a BWSR staff report to the organization with findings, conclusions, and recommendations.*

The following recommendations were brought forward by BWSR:

- (1) Existing planning goals are too broad. They need to be more targeted, prioritized, and measurable.*
- (2) Conduct internal analysis of the CIP. Work with city officials, informing them of the benefits of the program. Identify barriers that preclude this from happening.*
- (3) Review regulatory timelines.*
- (4) Coordinate communication efforts between Commission and landowners. Focus on specific land areas that contribute to low water quality. Partner with Hennepin County*

In these efforts. The County is a valuable resource for marketing programs and oftentimes also has grant resources available.

(5) Update the Commissioner Handbook, conduct training session for Commissioners. Look to the League of Minnesota Cities and the BWSR website for resources/assistance. (This item was added during the discussion when the recommendations were presented.)

The preliminary PRAP report was accepted at the September meeting. Plymouth Commissioner Catherine Cesnik volunteered to work with Chairman Doug Baines, Stantec consultant Diane Spector, and Administrator Judie Anderson on these recommendations. TAC members Ben Scharenbroich, Plymouth, and Derek Asche, Maple Grove, also volunteered to be members of the committee.

One of the specific recommendations, a draft Data Practices Policy, was presented and approved at the Commission's October meeting.

The final report was expected from BWSR by year-end.

≡ FINANCIAL REPORTING

The following pages show the Elm Creek Watershed Management Commission's approved budget and member assessments for 2021. The Commission's Joint Powers Agreement provides that each member community contributes toward the annual operating budget based on its share of the total market value of all property within the watershed.

Of the \$700,510 operating budget for 2021 approved by the Commission on June 10, 2020, revenue of \$100,000 was projected as proceeds from application fees, \$5,500 from partnership revenue, \$100,000 from grant proceeds, and \$15,250 from interest income and dividends, resulting in assessments to members totaling \$237,300. \$56,872 was projected as coming from reserves.

The Commission also designated \$185,588 as its share of three CIP Projects. (The cost of one project was later recalculated.) A Hennepin County ad valorem levy (\$137,562 payable in 2021) was used to fund the Commission's share of the three projects.

\$197,000 as projected as project review-related expense; \$49,060 for water monitoring; and \$21,000 for education. \$133,450 was budgeted for administration, planning, and general operating expenses. \$300,000 resides in an assigned fund for special projects, studies and subwatershed assessments.

Elm Creek Watershed Management Commission 2020-2021 Operating Budget

Row				2020 Budget	2021 Budget
EXPENSES					
GENERAL OPERATING EXPENSES					
7	Administrative			90,000	95,000
8		Watershed-wide TMDL Admin		300	0
9	Grant Writing			1,000	650
10	Website			3,000	2,000
11	Legal Services			2,000	2,000
12	Audit			5,000	5,000
13	Insurance			3,900	3,800
14	Technical support - HCEE - conservation promotion, landowner outreach, and project implementation.			15,000	12,000
15	Contingency			1,000	1,000
16			Subtotal General Operating Expenses lines 6-15	121,200	121,450
EDUCATION					
19	Education				
20		Education - City/Citizen Programs		3,000	2,500
21	West Metro Water Alliance				
22		WMWA General Admin		5,000	5,000
23		WMWA Implementation Activities incl Watershed PREP		6,500	6,500
24		RG Workshop/Intensive BMPs/Special Projects		3,000	3,000
25		Education Grants		1,000	1,000
26		Macroinvertebrate Monitoring-River Watch		3,000	3,000
27		Ag Specialist			
28			Subtotal Education lines 18-27	21,500	21,000
WATERSHED MANAGEMENT PLAN					
31		Plan Amendments		2,000	2,000
32		Local Plan Review			
33		Contribution to 4th Generation Plan			10,000
34			Subtotal Watershed Management Plan lines 30-33	2,000	12,000

Elm Creek Watershed Management Commission 2020-2021 Operating Budget

	Row		2020 Budget	2021 Budget
EXPENSES				
WATER MONITORING PROGRAMS				
	Expenses			
	38	Stream Monitoring		
	39	Stream Monitoring - USGS	24,000	24,000
	40	Stream Monitoring - TRPD	7,200	7,200
	41	Extensive Stream Monitoring		
	42	DO Longitudinal Survey	1,000	1,000
	43	Gauging Station - Elec Bill	250	400
	44	Subtotal Stream Monitoring lines 37-43	32,450	32,600
	46	Lake Monitoring		
	47	Lake Monitoring - CAMP	760	760
	48	Lake Monitoring - TRPD		
	49	Sentinel Lakes	8,100	8,100
	50	Additional lake	2,500	2,500
	51	Aquatic Vegetation Surveys	1,100	1,100
	52	Subtotal Lake Monitoring lines 46-51	12,460	12,460
		Other Water Monitoring		
	55	Rain Gauge Network	100	0
	56	Source Assessment		
	57	Watershed-wide TMDL-Follow-up-TRPD	1,000	
	58	Wetland Monitoring - WHEP	4,000	4,000
	59	Subtotal Other Monitoring lines 54-58	5,100	4,000
	60	Total Monitoring Expense lines 44,52,59	50,010	49,060
FLOODPLAIN MONITORING				
	63	Barr - Floodplain modeling	39,360	0.0
	64	TOTAL GENERAL OPERATING EXP-lines 63,60,34,28,16	234,070	203,510!

Elm Creek Watershed Management Commission 2020-2021 Operating Budget

Row				2020 Budget	2021 Budget
			EXPENSES		
			PROJECT REVIEWS and WETLAND CONSERVATION ACT (WCA)		
66			Technical - Barr Engineering/SWS - project reviews	185,000	185,000
69			Administrative Support	15,000	12,000
70			WCA Expense	3,000	0
71			WCA Expense - Legal	500	0
72			WCA Expense - Admin	1,000	0
73			Subtotal Project Review / WCA Expenses lines 66-72	204,500	197,000
			CIPS, GRANTS, SPECIAL PROJECTS, STUDIES, SWAs		
76			CIPs	448,935	175,000
77			Grants	125,000	125,000
78			Special Projects, Studies, SWAs	0	0
79			Subtotal CIPs, Grants, Spec Projects, etc. lines 75-78	573,935	300,000
80			TOTAL EXPENSES - lines 64,73,79	1,012,505	700,510
			REVENUE		
			GENERAL OPERATING REVENUE		
84			Membership Dues	237,300	237,300
85			Interest Income	8,000	15,000
85			Dividend Income	250	250
87			TRPD Cooperative Agreement	5,500	5,500
88			DNR Contract - Floodplain Modeling	39,360	
90			Subtotal General Operating Revenue lines 83-88	290,410	258,050
			PROJECT REVIEW and WCA REVENUE		
93			Project Review Fees	80,000	100,000
94			WCA Fees and Escrows Earned	0	0
95			Forfeited/Reimbursed Sureties		
96			Subtotal Project Review / WCA Revenue line 93-95	80,000	100,000
			CIPS, GRANTS, SPECIAL PROJECTS, STUDIES, SWAs REVENUE		
99			CIPs	448,935	185,588
100			Grants	100,000	100,000
101			Special Projects, Studies, SWAs		
102			Subtotal CIPs, Grants, Spec Projects, etc. lines 99-101	548,935	285,588
104			TOTAL REVENUE - lines 90,96,102	919,345	643,638
			Surplus/Deficit - lines 80,104	93,160	56,872

**Elm Creek Watershed Management Commission
2020-2021 Member Assessments**

2020	2019 Taxable Market Value		2019 Budget Share			Increase over Previous Year	
			%age	Dollars		%age	Dollars
Champlin	540,590,344		4.12%	9,768.39		6.97%	284
Corcoran	865,123,487		6.59%	15,632.66		2.56%	455
Dayton	749,481,401		5.71%	13,543.02		8.87%	394
Maple Grove	6,614,821,616		50.37%	119,528.89		1.93%	3,476
Medina	1,050,664,076		8.00%	18,985.35		-1.42%	552
Plymouth	1,418,363,351		10.80%	25,629.62		11.11%	745
Rogers	1,893,322,435		14.42%	34,212.07		65.00%	995
Totals	13,132,366,710		100.00%	237,300.00		2.99%	6,900
2021	2020 Taxable Market Value		2019 Budget Share			Increase over Previous Year	
			%age	Dollars		%age	Dollars
Champlin	586,080,150		4.13%	9,801.07		3.34%	33
Corcoran	945,017,350		6.66%	15,803.61		4.12%	171
Dayton	859,590,989		6.06%	14,375.02		9.32%	832
Maple Grove	7,002,119,108		49.35%	117,097.09		90.00%	-2,432
Medina	1,117,455,738		7.87%	18,687.32		1.38%	-298
Plymouth	1,634,614,359		11.52%	27,335.81		9.85%	1,706
Rogers	2,045,081,387		14.41%	34,200.09		2.96%	-12
Totals	14,189,959,081		100.00%	237,300.00		0.00%	0

The Commission maintains a checking account at US Bank for current expenses and rolls uncommitted monies to its account in the 4M Fund, the Minnesota Municipal Money Market Fund.

The 2020 Audit Report, which was prepared by Johnson & Company, Ltd., Certified Public Accountants, was accepted by the Commission at its June 9, 2021, meeting and submitted to the State Auditor online per compliance guidelines. It is available for viewing on the Commission's website, http://www.elmcreekwatershed.org/uploads/5/8/3/0/58303031/ec_financial_statements_12-31-2020_final.pdf

The Commission follows Rule 54 of the Government Accounting Standard Board (GASB) to report Fund Balances. The fund balance classifications include:

Nonspendable – amounts that are not in a spendable form. The Commission does not have any items that fit this category.

Restricted – amounts constrained to specific purposes by their providers. One example would be ad valorem levy funds received from the County for capital improvement projects. The unused portion of these funds must be set aside in a restricted account for similar projects. Another example would be BWSR Legacy Grant proceeds where the funds are received prior to the onset of a project and where any unused portion must be returned to the grantor.

Committed – amounts constrained to specific purposes by the Commission itself. An example would be residual funds carried over from one year to the next for Studies, Project Identification and Subwatershed Assessments.

Assigned – amounts the Commission intends to use for specific purposes. Most line items in the Commission's Operating Budget fall under this category.

Unassigned – amounts available for any purpose. These amounts are reported only in the general fund.

Amounts paid by the Commission per the 2020 Audit are as follows:

General engineering	134,306
General administration	123,501
Education	8,535
Programs	53,462
Projects	85,043
Capital projects	<u>319,021</u>
Total	\$723,868

General engineering work includes review of local plans, review of development/redevelopment projects, attendance at meetings and other technical services. General administration includes support to technical staff, attendance at meetings, insurance premiums, annual audit, legal counsel, tracking grant opportunities, watershed planning, and other non-engineering services.

≡ PROJECTED 2022 WORK PLAN

What follows below is a projected work plan for the year 2022. It was approved at the Commission's March 9, 2022, meeting.

TECHNICAL

- § Continue to review local development/redevelopment plans for conformance with the standards outlined in the Commission's Third Generation Watershed Management Plan. *Evaluate the 2021 project review policy, application form, and fee schedule to determine how well they are meeting the Commission's goal of funding the costs of reviewing the projects. Revise the language for approval of O&M agreements.*
- § Complete revisions to the Preliminary HUC-8 model based on the Third-Party Review, which identified four reasons the Preliminary HUC-8 base flood elevations were so much larger than the 2016 FIS. At their March 9, 2022, meeting, the Commission selected Stantec Consulting Services to complete the revisions identified in their Scope of Work dated March 2, 2022, excepting the work identified in Task 2, Subtask 7. Cost of this work is \$45,750. *Tasks 1,2 and 4 will be completed by April 22, 2022. Task 3, a Stakeholder meeting, will occur during the May 11, 2022, Technical Advisory Committee meeting. DNR requires that the work products be completed by mid-2022, and is anticipating that the project will be completed by September 2022.*
- § Convene a meeting of the Technical Advisory Committee to review any inconsistencies between the Commission and member city Rules and Standards. *On August 26, 2021, the TAC began its review with discussion regarding the challenges related to low elevations/low openings adjacent to flashing waterbodies such as ponds, an issue that became relevant when reviewing a project for which a variance was approved. Members worked from a flow chart created by Staff that summarized the review path taken by the Technical Staff when reviewing projects. They will continue their discussions at future TAC meetings.*

MONITORING

- § Continue to partner with the Three Rivers Park District (TRPD) to share in the costs of conducting lake and stream monitoring in the watershed as described in the five-year cooperative agreement approved in 2018. *In 2022, TRPD will monitor Elm Creek at 77th Avenue (ECF77); Rush Creek at Territorial Road (RT); and Diamond Creek (DC) for continuous flow and water quality. A dissolved oxygen longitudinal survey will also be conducted on Rush Creek in 2022. TRPD will also monitor four sentinel lakes (Fish, Weaver, Diamond, and Rice) and two additional non-sentinel lakes in the Elm Creek Watershed in 2022. An aquatic vegetation point-intercept survey will be completed on one of these lakes. Under the cooperative agreement, the Commission and the Park District will also provide financial support to assist the monitoring efforts of the USGS stream gauging station.*
- § Continue to operate the monitoring station on Elm Creek within the Elm Creek Park Reserve in Champlin in cooperation with the United States Geological Survey (USGS). *The cooperative agreement with the USGS will be renewed for WY2022-2023*
- § Fund the monitoring of one lake through Metropolitan Council's Citizen Assisted Monitoring Program (CAMP). *One lake will be monitored through CAMP in 2022.*
- § Participate in the Minnesota Wetland Health Evaluation Program (WHEP) with four wetlands in 2022, *dependent on the status of the pandemic. Again, because of this uncertainty, the Commission will not be charged for this service in 2022.*

EDUCATION AND PUBLIC OUTREACH

- § Promote river stewardship through Hennepin County's RiverWatch program with three sites in 2022, *depending on the status of the pandemic. Because of this uncertainty, the Commission will not be charged for this service in 2022.*
- § Continue as a member of the West Metro Water Alliance (WMWA). *A new Educator was hired in December 2021 and will begin reaching out to schedule classroom visits in 2022. Depending on the status of the pandemic, Watershed PREP classes may be conducted virtually. A video of the Watershed PREP class is available on the WMWA website for home school or classroom viewing at <http://www.westmetrowateralliance.org/>. The four member watershed organizations, Bassett Creek, Elm Creek, Shingle Creek, and West*

Mississippi, will continue to develop materials in response to the new NPDES permit requirements, concentrating on educational content regarding pet waste, chlorides/salt, and illicit discharge.

- § Promote “Lawns to Legumes,” a program for residents to seed their lawns with a bee lawn mix, targeting habitat for the Rusty-patched bumblebee, an endangered species. A collaboration between Blue Thumb and the Minnesota Board of Water and Soil Resources (BWSR), provides cost-share funding and other resources to help Minnesota residents establish pollinator habitat in their yards. *The Commission supports this program with membership in Blue Thumb and links to its website.*

- § Continue as a member of Blue Thumb and WaterShed Partners. *Staff will continue to virtually attend WaterShed Partner meetings and Blue Thumb meetings to share resources, bringing back programs and ideas for promotion by the Commission. Administrative staff attend these meetings, offering expertise and otherwise participating to support our shared goals, and providing updates to the Commission at their monthly meetings.*

- § Sponsor Resilient Yard Workshops as part of the Commission’s Education and Public Outreach Program. The workshops are presented by Metro Blooms. *Since the start of the pandemic, all workshops have been held virtually and will continue virtually through 2022. Registration for the 2022 workshop season opened February 1, 2022, when partner organizations received communication materials to help announce the opportunity to attend workshops in their area. In 2022, workshops in our area will be sponsored by the cities of Champlin, Crystal, Plymouth, and Minneapolis.*

A new Blue Thumb training program has been implemented to teach participants skills in inspecting and caring for raingardens and other green infrastructure, all within a framework of eco-friendly landscaping practices. People who take part in the full session will receive a Sustainable Landcare Certificate. Participants in the program first receive Stormwater Basics, learning about watersheds and how water travels in our urban environment. They also learn how raingardens are built, how they work, and how to inspect them to ensure they function properly. An important part of the program is weedy plant identification and vegetation management (a major culprit of dysfunctional raingardens) to avoid the need for chemical use, when possible.

- § Continue to work in partnership with the University of Minnesota’s agriculture specialist to help build relationships with the agricultural community in the watershed in order to

achieve TMDL load reductions. *The status of the pandemic will determine what amount of interaction with landowners can occur in 2022. Communication between landowners and Hennepin County will continue through targeted mailers and other means. Identified projects from 2021 outreach will advance into implementation phases in spring/summer of 2022.*

- § Work with the Hennepin County Rural Conservation Specialists. Assist landowners in identifying BMPs for implementation throughout the watershed. Work with member cities to identify projects that will result in TMDL load reductions. *Hennepin County Environment and Energy Staff will collaborate with landowners to identify BMP projects as well as larger, more strategic projects for inclusion on the Commission's Capital Improvement Program (CIP). Through a variety of outreach efforts, Hennepin County specialists are working with landowners to identify which BMPs would be the most effective in retaining pollutants while remaining manageable. In addition, Hennepin County staff is now working more closely with the City of Corcoran to ensure that their office is aware of ongoing projects, while looking for other opportunities to leverage resources to implement more BMP projects. The County will look to expand this coordination throughout 2022. County Staff will provide updates to the Commissioners through their monthly Staff Reports.*
- § Continue to populate and maintain the Commission's website www.elmcreekwatershed.org to provide news to residents, students, developers, and other interested individuals. *This is an ongoing endeavor.*

PROJECTS AND CAPITAL IMPROVEMENTS

- § Send out call to member cities, requesting them to provide updates to the projects already included on the Commission's Capital Improvement Program (CIP) as well as inform the Commission of new projects that they would like to have considered for inclusion on the CIP. Hold public meeting, adopt an amendment to the Third Generation Watershed Management Plan, conduct public hearing, and certify levy to Hennepin County. *Hennepin County will continue communicating CIP updates to member cities into 2022. Further, staff will work to provide cities with updates on projects currently underway as well as prospective projects as they arise.*
- § Continue to support City-sponsored projects using the ad valorem funding mechanism. Conduct public hearing for identified projects and certify levy to Hennepin County. *This process will also be repeated in 2022.*

§ Undertake high priority projects identified in the Rush Creek Headwaters Subwatershed Assessment. *This activity will continue in 2022. Best management practices that will reduce nutrient, sediment, and bacterial contamination in the Rush Creek Watershed have been completed over the past year or are currently nearing implementation. A grassed waterway and detention basin were installed on farm fields adjacent to Jubert Lake that will retain 15 tons of sediment and 15 pounds of Phosphorus per year. More high priority projects related to curbing manure and nutrient runoff, such as manure bunkers and filter strips, have been identified and are in the initial stages of planning. Larger projects such as the Jubert Lake Agricultural BMPs, are entering second phases that will include grassed waterways, culvert stabilization, and wetland restoration.*

§ Having had two different allocation processes in as many biennia, the Board of Water and Soil Resources BWSR held several Listening Sessions to take feedback and help decide how to allocate FY22 Watershed Based Implementation Funds (WBIF). On October 27, 2021, the BWSR Board approved a process that would allocate funds to Metro watersheds with “a \$75,000 minimum per watershed planning area inside of the Metro, and a distribution of funds based on a weighting of 90% private land and 10% on public waters to all eligible areas.” *Requirements will include a minimum 10% match, project(s) must be load reduction practices, and could be structural or non-structural. The Elm Creek planning area has been awarded \$297,774. The Commission has tasked the Technical Advisory Committee to be the lead in identifying the project or projects that would be submitted for funding. These grant funds expire December 31, 2025.*

For the 2020-2021 biennium of the WBIF program, Elm Creek submitted two projects, the Rush Creek Restoration for \$200,000 and the Elm Creek Restoration at the outlet of Hayden Lake for \$300,000. After criteria ranking, Elm Creek was awarded \$281,996.20 which the Commission put toward the Elm Creek Restoration project. A 10% local match is required. Other grant funds are being pursued to complete these stream restorations. Grants from these funds expire December 31, 2023.

§ Make application for funding from the newly-created Minnesota Pollution Control Agency (MPCA) resiliency grant program. This program provides grants to communities statewide for climate resiliency planning. The grants can pay for climate risk assessment, planning, and pre-design needed to inform the development of bonding proposals to upgrade stormwater infrastructure. Grants will be available on a competitive basis to counties, cities, townships, and Tribal Nations in Minnesota.

- § Support the City of Maple Grove and its partners as they undertake a subwatershed assessment for Weaver Lake. *The City has begun its work on the subwatershed assessment and is awaiting comments from the lake association before finalizing the report.*
- § Support the City of Corcoran and its partners as they undertake a subwatershed assessment for the South Fork of Rush Creek. A small portion of the South Fork also flows through the cities of Maple Grove and Medina. *Corcoran's City Council has approved a Stormwater Area Charge Study to evaluate options with results anticipated to be presented to the Council in early 2022.*
- § Support the City of Dayton and its partners to continue efforts for completion of the Diamond Lake subwatershed assessment. *The final report is substantially complete. The report and results will be presented to the City in early 2022.*

ADMINISTRATION

- § Conduct the biennial solicitation of interest proposals for administrative, legal, and technical consultants. *This process will be undertaken in January 2023. Solicitations will be published in a December 2022 edition of the State Register.*
- § Adopt a 2023 operating budget. *A Budget Committee will draft a 2023 operating budget for consideration by the Commission in May 2022.*
- § Prepare a 2021 Audit Report. *This report will be prepared by Johnson and Company, LTD and forwarded to BWSR per MN Rule 8410.*
- § Publish an annual activity report summarizing the Commission's yearly activities and financial reporting. *The 2022 Annual Activity Report will be published in April 2023 and made available to the member cities and the public on the Commission website, <http://www.elmcreekwatershed.org/annual-reports.html>.*
- § Complete the Board of Water and Soil Resources Performance Review and Assistance Program (PRAP) Level II Review. *In their preliminary report, BWSR brought forward four recommendations (see pages 14-15 of this report). The Commission received the final report on December 30, 2021. The PRAP subcommittee scheduled its first meeting to respond to BWSR's recommendations for February 16, 2022.*

Have a question about this report?

Need more information?

Want to know how to get involved?

Contact us: drop us an email, we're happy to help:

<http://www.elmcreekwatershed.org/contact-us.html>

Commissioners

Commissioners and Alternate Commissioners are appointed by the communities they represent and serve at will. Officers are elected annually at the first regular meeting during the month of March and assume office on April 1.

REPRESENTING	NAME/POSITION	ADDRESS	TELEPHONE/EMAIL
Champlin	Bill Walraven Secretary	216 Lowell Road Champlin, MN 55316	763.421.3206 traderstec@aol.com
	Gerry Butcher Alternate	11467 Preserve Lane N Champlin, MN 55316	763.557.1451 gerrybutcher671@yahoo.com
Corcoran	Ken Guenthner Treasurer	6315 Butterworth Lane Corcoran, MN 55430	612.710.0734 kenguenthner@gmail.com
	vacant Alternate		
Dayton	Doug Baines Chair	13000 Overlook Road Dayton, MN 55327	763.323.9506 dougabaines@aol.com
	Travis Henderson Alternate	12260 S Diamond Lake Road Dayton, MN 55327	612-743-4506 thenderson@cityofdaytonmn.com
Maple Grove	Joe Trainor Commissioner	16075 Territorial Road Maple Grove, MN 55369	763.420.4645 joe.trainor@meritain.com
	Dan Riggs Alternate	12822 86th Place North Maple Grove, MN 55369	612.916.4406 driggs@carlsonmccain.com
Medina	Elizabeth Weir Vice Chair	1262 Hunter Drive Wayzata, MN 55391	763.473.3226 lizvweir@gmail.com
	Terry Sharp Alternate	4274 Fairway Drive Medina, MN 55340	612.849.6230 tsharp2972@aol.com
Plymouth	Catherine Cesnik Commissioner		cesnik@gmail.com
	Jake Gateman Alternate	14205 56th Ave N Plymouth, MN 55446	651.726.4759 jake.gateman@gmail.com
Rogers	Kevin Jullie Commissioner	13315 Oakwood Drive Rogers, MN 55374	763.428.9160 kjullie@srfconsulting.com
	Vacant Alternate		

Technical Advisory Committee

Members of the Technical Advisory Committee (TAC) are appointed by the member communities they represent. The purpose of the TAC is to review guidelines, standards and policies used to evaluate plans, plans and proposals of the members and make recommendations to the full Commission. The TAC meets at the direction of the Commission.

REPRESENTING	NAME	ADDRESS	TELEPHONE/EMAIL
Champlin	Todd Tuominen	City of Champlin 11955 Champlin Drive	763.923.7120 ttuominen@ci.champlin.mn.us
	Heather Nelson	Champlin, MN 55316	763.923.7120 hnelson@ci.champlin.mn.us
Corcoran	Kevin Mattson	City of Corcoran 8200 County Road 116 Corcoran, MN 55340	763.400-7028 kmattson@ci.corcoran.mn.us
Dayton	Nico Cantarero	Wenck Associates/Stantec 7500 Highway 55 Ste 300 Golden Valley, MN 55427	763.252.6904 nicolas.cantarero@stantec.com
Maple Grove	Derek Asche	City of Maple Grove 12800 Arbor Lakes Parkway Maple Grove, MN 55313	763.494.6354 dasche@maplegrovmn.gov
Medina	Matt Danzl	Hakanson-Anderson 3601 Thurston Avenue Anoka, MN 55303	763.852.0496 MattD@HAA-inc.com
Plymouth	Ben Scharenbroich	City of Plymouth 3400 Plymouth Boulevard	763.509.5527 bscharenbroich@plymouthmn.gov
	Amy Riegel	Plymouth, MN 55447	763.509.5531 ariegel@plymouthmn.gov
Rogers	Andrew Simmons	City of Rogers 22350 S Diamond Lake Road Rogers, MN 55374	763.428.0907 asimmons@ci.rogers.mn.us
Wenck & Associates/ Stantec Consulting Services	Ed Matthiesen	7500 Olson Memorial Highway Suite 300	763.252.6851 edward.matthiesen@stantec.com
	Diane Spector	Golden Valley, MN 55427	763.252.6880 diane.spector@stantec.com
	Ross Mullen		952.334.4606 ross.mullen@stantec.com
Surface Water Solutions, LLC	James Kujawa	6533 Neddersen Circle Brooklyn Park, MN 55445-3206	952.456.3206 surfacewatersolutions@outlook.com
Hennepin County Dept. of Energy and Environment	Kris Guentzel	701 Fourth Avenue S. Suite 700	612.596.1171 kristopher.guentzel@hennepin.us
	Kevin Ellis	Minneapolis, MN 55415-1600	612.543.3373 Kevin.ellis@hennepin.us
	Paul Stewart		612.543.9409 Paul.Stewart@hennepin.us
Three Rivers Park District	Brian Vlach	12615 County Road 9 Plymouth, MN 55441	763.694.7846 Brian.Vlach@ThreeRiversParks.org

Staff and Consultants

The required biennial solicitation for interest proposals for administrative, legal, and technical consulting services was published in the December 14, 2020 edition of the *State Register*. The next solicitation will occur in January 2023. The Commission has no employees.

NAME/POSITION	ADDRESS	TELEPHONE/EMAIL
Technical Services		
Wenck Associates/	Ed Matthiesen	7500 Olson Memorial Highway Suite 300 763.252.6851 edward.matthiesen@stantec.com
	Diane Spector	763.252.6880 diane.spector@stantec.com
	Ross Mullen	952.334.4606 ross.mullen@stantec.com
Surface Water Solutions, LLC	James Kujawa	6533 Nedderson Circle Brooklyn Park, MN 55445-3206 952.456.3206 surfacewatersolutions@outlook.com
Hennepin County Dept. of Energy and Environment	Kris Guentzel	701 Fourth Avenue S. Suite 700 612.596.1171 kristopher.guentzel@hennepin.us
	Kevin Ellis	612.543.3373 kevin.ellis@hennepin.us
	Paul Stewart	612.543.9409 Paul.Stewart@hennepin.us
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	Judie Anderson	JASS 3235 Fernbrook Lane 763.553.1144 judie@jass.biz
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elm creek Watershed Management Commission

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Rebecca Carlson | rebecca@resilience-resources.com

STAFF REPORT April 6, 2022

- a. 2017-050W Ernie Mayers Wetland/floodplain violation, Corcoran.** The City of Corcoran contacted the Commission in December 2017 concerning drainage complaints on Mayers' property. Technical Evaluation Panels (TEPs) were held in 2017 and 2018 to assess the nature and extent of the violations and a restoration order was issued to Mayers. In October 2018, an appeal of the restoration order was received by the Board of Water and Soil Resources. BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers. *The parties came to an agreement to resolve the violation in November or December of 2021. The agreement has been signed by BWSR, Corcoran and Mayers. Staff has not been provided with a copy of the agreement to date. BWSR responded that said agreement is not available unless it is released by one of the signers. Note, the WCA agreement does not resolve the Commission's floodplain fill issue from this wetland work. Staff sent correspondence to that effect to Mayers on February 1, 2022, requesting an application and site plan. No new information was received in March.*
- b. 2021-025 Hackamore Road Reconstruction, Corcoran/Medina.** The cities of Corcoran and Medina plan to reconstruct 1.3 miles of Hackamore Road from just west of CR 116 to CR 101. The project will add 4.4 acres of new impervious surface along the stretch of roadway by widening the roadway, adding turn lanes, pedestrian facilities, and utility improvements. To meet the Commission's stormwater requirements, the project will largely rely on adjacent developments (both existing and proposed) to incorporate BMPs to provide rate control, volume control, and water quality control. Staff reviewed the early application and provided comments to the applicant. *Staff awaits response from the applicant on this project.*
- c. 021-026 Prairie Creek, Medina.** This proposed development will consist of a new 17-lot single-family development encompassing approximately 6.72 acres located on Hamel Road at Elm Creek Drive. There will also be a new private street, concrete walks, and utilities. This project was approved by the Commission at their September meeting conditioned upon, (a) determination of the final escrow fee balance when all conditions for approval are met and (b) wetland buffer monumentation meeting Commission requirements.
- d. 2021-028 Cubes at French Lake, Dayton.** This is four parcels totaling 71.62 acres located south of 117th Avenue and north of the intersection of 113th Ave. and CSAH 81. The project includes construction of a 996,960 SF industrial building with associated parking and utility improvements. In addition, the project includes the construction of Dayton Parkway from CSAH 81 to 117th Avenue North. The Commission approved this project on November 10, 2021, conditioned upon: (a) a stormwater system operation and management agreement being approved by the Commission and the City. Said agreement must be recorded on the land title within 90 days after the final plat approvals. A copy of the recorded agreement must be provided to the Commission prior to the Commission's final approval, (b) Prior to impacts, wetland and wetland buffer strips must comply with the City of Dayton, Minnesota Wetland Conservation Act, and Commission rules, (c) Permanent easements on wetland and buffer areas, and (d) final escrow balance determination when final approval is granted (without remaining conditions). The wetland replacement plans have been approved by the City of Dayton. *Revisions to the plan dated February 14, 2022, were reviewed and approved by Staff. Contingencies Items a, b, and c above are also acceptable. The only remaining item is the escrow balance.*

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RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

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RULE I - BUFFERS

Italics indicates new information

indicates enclosure

e. 2021-029 TriCare Grocery, Maple Grove. The project will construct a grocery store, retail, and associated parking on approximately 2.5 acres of the 62.7-acre TriCare parcel, which is located just north of County Road 30 and southwest of I-94. The project was reviewed for Rules D and E. Staff issued a denial in 2016 when the regional stormwater BMP project was constructed. On November 10, 2021, the Commission approved this project contingent upon reconciliation of the escrow balance and the City reconstructing the basin to meet Commission rules and standards.

f. 2021-030 TriCare Roads, Maple Grove. This project proposes to construct roads in the 62.7-acre TriCare parcel, which is located just north of County Road 30 and southwest of I-94. The roads will result in 3.8-acres of net new impervious on the parcel. The project was reviewed for Rules D, E, G, and I. The Commission approved this project at its December 2021 meeting contingent on receipt of deficit fee escrows.

g. 2021-031 Cook Lake Edgewater, Corcoran/Maple Grove. The application is for a 28.4-acre development just north of Bass Lake Road, on both sides of the Corcoran-Maple Grove municipal boundary. The development includes 60 single-family homes in Maple Grove, 12 single family homes in Corcoran, and senior care and memory centers in Corcoran. The project was reviewed for Rules D, E, G, and I. The project was approved at the November 2021 meeting with four contingencies. This project will be removed from the report pending reconciliation of fee escrows and complete documentation that the project has met contingencies listed for approval.

h. 2021-034 BAPS Temple, Medina. This project includes construction of a Hindu Temple, dining hall, gymnasium, parking lot and one permanent residency for the temple's priest on a 19.7-acre parcel at 1400 Hamel Road. The parcel currently serves as a farmstead with a farmhouse and barns. The project was reviewed for Rules D, E, G, and I. The Commission approved this project at its October 2021 meeting contingent on three conditions: (1) reconciliation of the escrow balance, (2) an operation and maintenance agreement with the City, and (3) a geotechnical report provided to the Commission.

i. 2021-037 Marsh Pointe, Medina. The Marsh Point project (also called the Arrowhead Drive project) includes construction of 38 single-family homes on the east side of Arrowhead Drive, west of Lake Medina. The development will replace four existing homes. The project was reviewed for Rules D, E, F, G, and I. The Commission approved this project at its December 2021 meeting condition on receipt of four items: (1) the escrow balance, (2) a Stormwater Maintenance Agreement, including irrigation system, being entered into with the City, (3) a wetland replacement plan approved by the LGU and the TEP, and (4) the buffer plan contingent upon approval of the wetland replacement plan.

j. 2021-038 Bellwether 6th/Amberly, Corcoran. The Bellwether 6th Addition and Amberly 1st Addition are developments in the city of Corcoran just west of County Road 101 and south of Stieg Road proposed for single-family homes. The developments are part of a 74 acre parcel also known as the Van Blaricom development. This project is located immediately west of the previous Bellwether developments (Encore) and was reviewed for Rules D, E, F, G, and I. At the December meeting, in their Findings dated November 22, 2021, and revised December 8, 2021, Staff recommended approval with five conditions: (1) return of surplus project escrows, (2) provision of a Stormwater Maintenance Agreement, including irrigation system, acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMP's on the site, (3) receipt of a wetland replacement plan approved by the LGU and the TEP, and (4) receipt of a buffer plan contingent upon approval of the wetland replacement plan.

k. 2021-039 I94 Logistics Center, Rogers. This is a 30.90-acre site located between I-94 on the west and County Road 13 (Brockton Lane) on the east. A proposed warehouse, parking lot, and loading dock will create

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12.5 acres of new impervious on the site, which is currently undeveloped. Approximately 12.25 acres of the parcel is in a conservation easement to protect woodlands and wetlands and cannot be developed. The project was reviewed for Rules D, E, G, and I. The Commission approved this project at its October 2021 meeting contingent on three conditions: (1) reconciliation of the escrow balance, (2) an operation and maintenance agreement with the City, and (3) a WCA reapproval of the proposed wetland impacts.

l. 2021-042 Risor Senior Living, Maple Grove. This is a 3.19-acre project site for construction of senior living located within approved Project Review #2020-002 of the Planned Unit Development (PUD) Project 100. The project was reviewed for Rule E. Because the project proposes 72% impervious on a site that was assumed to have 80% impervious and the project follows best practices and Commission rules regarding erosion and sediment control, Staff administratively approved the project. This project will be removed from the report upon receipt of the outstanding escrow balance.

m. 2021-043 Northwood Community Church, Maple Grove. The existing project site is owned by Northwoods Community Church and functions as church offices. The proposed project demolishes these office buildings and constructs a church on the 10.56-acre parcel. The project was reviewed for Rules D, E, G, and I. The Commission approved the project at its February 2022 meeting contingent on receipt of the escrow fee balance and a Stormwater Maintenance Agreement enacted between the applicant and the City.

n. 2021-044 Balsam II Apartments, Dayton. The Commission approved this project in January 2022 contingent upon. (1) post development flow rates in the infiltration basin must be based on in-field infiltration rates as measured with a double-ring infiltrometer or similar approved equivalent (ECWMC Rule D.3.c.ii), (2) the trench drain at the garage entrance must be hydraulically separated from the storm sewer system. Verification of where the trench drain will outlet and the elevations of said pipes must be provided. The separation elevation must be at 861.7 or higher, (3) long term operation and maintenance for the on-site infiltration basin must be provided. The applicant must provide an O & M plan for the basin that is acceptable to the City and the Commission, and the plan must be recorded within 90 days after the plat is filed or a building permit is issued. A copy of the recorded O & M plan must be provided to the Commission, and (4) approval is contingent upon reconciliation of the final escrow fee balance, to be determined when all conditions for approval are met. In January, updated plans with the hydraulic separation of the garage sump pump and an approved O & M plan were received (items 2 and 3). Recording documentation of the O & M plans along with the final infiltration testing of the stormwater basin are still outstanding.

o. 2021-046 Len Busch Roses, Plymouth. This project proposes to add an additional 25,00-square foot greenhouse on this site, disturbing 1.70-acres and creating 0.64-acres of new impervious on the site. The project was reviewed for Rules D and E. The Commission approved the project at its February 2022 meeting contingent on two conditions: receipt of escrow fee balance and a Stormwater Maintenance Agreement enacted between the applicant and the city.

p. 2021-047 CR 10 Box Culvert Replacement, Corcoran. Hennepin County will be replacing an existing 6'x10" box culvert with a 6'x6", 6'x4' and a 36" CMP pipe to replicate the existing flows of Hennepin County Ditch #16 under CR 10. The project was reviewed for Rules D, E, F, G, and H. The Commission approved the project at its February 2022 meeting contingent on two conditions: receipt of escrow fee balance and an approved wetland alterations plan.

q. 2021-048 Bellwether-Newman West, Corcoran. This parcel is the most recent phase of the Bellwether/Encore development. It is in the southwest 58-acre quadrant of the overall project (previously called the Encore development) located west of CR 101, south of Stieg Road and north of CR 30. It was

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reviewed for grading and erosion control and consistency with the previous approvals. The original phase I grading and the overall stormwater management plans for this project were approved by the Commission under project 2018-032. In their findings dated November 24, 2021, Staff administratively approved the project with the following four conditions. (1) Reconciliation of escrow fees when all conditions for approval are met, and (2) Wetland replacement plan approvals from the LGU must be provided for the Commission's review and must be approved by the LGU prior to any temporary or permanent impacts, and (3) Long term operation and maintenance of the regional and localized basins must be provided per Commission's requirements. and (4) Corcoran grading approval. *All items have satisfied except for the escrow balance.*

r. 2021-049 Dayton Business Interchange, Dayton. This is a 14-acre site, proposed to be developed into a 124,000 SF office/warehouse building along with truck staging area, parking areas and related utilities. Two filtration basins are proposed for stormwater management and construction of 6.93 acres of new impervious areas. Preliminary comments and request for revisions were provided to the applicant on November 19. Revised plans received in January and April have been reviewed, but do not meet the Commission's requirements. *On March 2, 2022, the applicant extended the 15.99 deadline to May 5, 2022.*

s. 2021-050 Evanswood, Maple Grove. This proposed development will construct 227 single-family and 138 townhomes in the northwest corner of Maple Grove, disturbing 108.5-acres, and create 45.8-acres of impervious surfaces, 41.4-acres of which is net, new impervious surfaces. The project was reviewed for Rules D, E, F, G, and I. Staff recommended *approval at the March meeting* contingent on five conditions: (1) final escrow balance being reconciled; (2) the applicant shall provide a Stormwater Maintenance Agreement that is acceptable to the city and the Commission within 90 days after the plat is recorded for all stormwater BMP's on the site that will not be operated and maintained by the city. Because the irrigation system included with the stormwater reuse BMP is part of the overall water reuse system that is necessary to meet the Commission's standards, the irrigation system shall be included in the Stormwater Maintenance Agreement. The applicant should provide irrigation distribution plans (pipe locations, size, preliminary pump plan, augmentation water info, area to be irrigated, and demonstration that the receiving soils have infiltration capacity) and an Operation and Maintenance Plan for the stormwater system, including the irrigation system; (3) the wetland de minimis exemption plan approved by the LGU and the TEP; (4) wetland monumentation along Lots R1 through R40 and U1 through U22 shall be in provided in accordance with Commission standards; and (5) a rock construction entrance shall be provided for Driveway #1 for access from 105th Avenue North.

t. 2021-051 Fields of Nanterre, Plymouth This project is the proposed maintenance of an existing drainage swale to remove accumulated sediment and cattails. The project does not create any new impervious surfaces. The project triggers Rules E and G. Pursuant to Commission Resolution No. 2005-01, In their findings dated November 22, 2021, Staff administratively approved the project contingent on (1) final escrow balance being reconciled and (2) an approved wetland no-loss decision or alternate approved wetland decision type being submitted to the Commission.

u 2021-052 Norbella Senior Living, Rogers. This project will construct a 40-unit senior living facility on South Diamond Lake Road. The proposed disturbance is 2.4-acres with net, new impervious surfaces of 1.4-acres. The project is being reviewed for Rules D and E. Initial comments were sent to the applicant on December 16 and Staff received responses on January 25. Staff recommend approval contingent on three conditions: (1) final escrow balance being reconciled, (2) a stormwater maintenance agreement being put in place between the owner and the city with terms acceptable to the Commission, and (3) a detail being added to the construction drawings showing the inspection ports being installed along the isolator row of the underground filtration system.

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v. 2021-053 Towns at Fox Creek, Rogers. This proposed development will construct 150 multi-family townhomes between Industrial Boulevard and Hynes Road, disturbing 15.4-acres with 7.46-acres of impervious, 5.88-acres of which is net, new impervious surfaces. The project is being reviewed for Rules D, E, and G. The applicant is working on revisions requested by Staff. No recommendation is available for the Commission at this time.

w. 2021-054 Stotts Family Farm Grassed Waterways, Corcoran. A complete application was received on December 23, 2021. This project will be reviewed for grading and erosion control plans only. Staff will have the authority to make the decision on this project. Current plans do not meet Commission requirements. Comments to that effect were provided to the applicant and their agent on January 5, 2022. As requested by the applicant, the 15.99 deadline was extended to April 21, 2022, to allow him additional time to provide the requested information. *Updated plans were received March 29, 2022. Staff has not reviewed them as of this update.*

x. 2021-055 Morningside Estates 6th Addition, Champlin. This proposed development will construct seven single-family homes adjacent to the recently reviewed Oaks at Bauer Farm Project (2021-012) on the north side of French Lake Road, disturbing 2.8-acres and creating 0.8-acres of net, new impervious surfaces. The project is being reviewed for Rules D and E and *will be on the Commission's April agenda for their decision. Project review and findings are included in the packet.*

y. 2022-001 Dayton Field 2nd Addition, Dayton. This is two parcels, 56 acres in size, proposed to be developed into two lots and an outlot. Lot 1 will be an industrial building, lot 2 will be a self-storage facility and the remaining outlot will not be disturbed. Initial site plans do not meet the Commission's requirements. *The applicant has extended the 15.99 deadline to May 31, 2022.*

z. 2022-002 Summerwell Townhomes, Maple Grove. The proposed project is for construction of a 26-acre site into a residential, townhome. The project will create 13-acres of impervious, all of which is net, new impervious. The project triggers Rules D, E, G, and I. *Updated plans were received April 1, 2022. Staff has not reviewed them as of this update.*

aa. 2022-003 Fox Briar Ridge East, Maple Grove. The proposed project is for construction of eight townhomes and one single family home with associated sidewalks, roads, and stormwater infrastructure. The project will create 1.81-acres of impervious, 1.68-acres of which is net, new impervious. The project triggers Rules D and E. *The applicant has extended the 15.99 deadline to June 7, 2022. This project will be on the Commission's April agenda for their decision. Project review and findings are included in the packet.*

ab. 2022-004 Loram/Scannell Medina Industrial EAW. Commission administrative and technical staff opened a project number to track time associated with an environmental assessment worksheet. The project is for a warehouse site on Arrowhead Drive, just south of Highway 55. Comments were submitted to the City of Medina on behalf of the Commission.

ac. 2022-005 Bellwether 7th Addition Corcoran. The project site is a 4-acre parcel within the Bellwether project, known as the Schober property. The proposed project would construct 17 single-family homes and expand existing pond 6N. The project was part of previous Bellwether project reviews and therefore only triggers Rule E. *The only outstanding item is the escrow balance.*

ad. 2022-006 Hamel Townhomes, Medina. The proposed project is for construction of 30 townhomes with associated sidewalks, roads, and stormwater infrastructure. The project will create 1.76-acres of impervious, 1.54-acres of which is net, new impervious. The project triggers Rules D and E. *The applicant is working on revisions requested by Staff on March 9, 2022. No recommendation is available for the Commission at this time.*

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ae. 2022-007 Weston Commons 2nd Addition, Maple Grove. The proposed project is for construction of 82 row, townhomes with associated sidewalks, roads, and stormwater infrastructure. The project triggers Rules D, E, and I. *This project will be on the Commission's April agenda for their decision. Project review and findings are included in the packet.*

af. 2022-008 Bechtold Farms, Corcoran. This is two parcels that total 117.6 acres proposed to be subdivided into 12 large, single-family lots.. The project will create 6.3-acres impervious areas, 4.5-acres which are net, new impervious. *The project triggers Rules D, E, F, G, and I. This project will be in the Commission's April agenda for their decision. Project review and findings are included in the packet.*

ag. 2022-009 Dunkirk Lane Development, Plymouth. The project is located in the southwest quadrant of the intersection of Dunkirk Lane and 59th Avenue N. The proposed development includes construction of 21 single-family home units and the associated streets, utilities, and stormwater management basin. The Commission review covers Rules D and E. *This project will be on the Commission's April agenda for their decision. Project review and findings are included in the packet.*

ah. 2022-010 Unity Tool Building Addition, Dayton. This site is located at the NE intersection of County Road 81 and Troy Lane, across CR 81 from the Auto Auction site. The plan proposes to disturb 1.4 acres to expand the existing building by 16,075 square feet, reconfiguring the surface pavement and landscape areas, construct a stormwater basin and install site utilities. The current site design does not meet Commission requirements. Staff provided their initial review comments on March 16. No revisions have been received as of this update.

ai. 2022-011 Arrowhead Drive Turn Lane Expansion, Medina. This project consists of a linear project for the City of Medina and a private site expansion for Open Systems International (OSI). The City will be constructing a stormwater BMP on the OSI site to accommodate for rates and water quality from two projects: (1) Arrowhead Drive Turn Lane Expansion and the future (2) Open Systems International, Inc. (OSI) Expansion. The projects are being reviewed as a planned development being treated by the proposed basin. Updated plans were received April 1, 2022. Staff has not reviewed them as of this update.

aj. 2022-012 Graco Building 2, Dayton. This project is a 515,400 square feet distribution center and associated parking areas and drive lanes located in the southerly 36.6-acre portion of outlot H in the French Lake Industrial Center. Additionally, mass grading on the remaining portion of Outlot H, Outlots A and B will occur to accommodate two future buildings, regional ponding, and the construction of French Lake Road West. In total, 74 acres will be graded. The Commission's review covers Rules D and E on the 74 acres being grading for this project. A complete plan was received on March 25th. Plans do not meet the Commissions requirements currently. Initial comments and findings were provided to the applicant and his engineer on March 31. No revisions have been received as of this update.

ak. 2022 Dayton Industrial Site, Dayton. This project is a 25.04 acre site located on the north side of County Road 81 between Brockton Lane and Dayton Parkway. The applicant is proposing to construct a 334,750 square foot industrial building with associated parking for passenger vehicles and tractor trailers. The project also includes completion of the public component of this project including construction of an extension of Troy Lane Extension from its current cul-de-sac terminus continuing eastward to a future intersection with West French Lake Road. The proposed project will create 17 acres of new impervious, disturbing 30 acres. The area of the two existing parcels is 25.04 with 0.44 acres of existing impervious. Staff received the signed application on March 21, 2022. Staff completed an initial review and requested additional documents from the applicant. They were received March 29, 2022, the date of the completed application. Staff will continue the review and likely provide a recommendation at the Commission's May meeting.

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al. 2022-014 Aster Mill, Rogers. *This project is a 79.4-acre development bound by 129th Avenue North to the north, single family homes to the east and west, and a mix of woods and farmland to the south. The applicant is proposing 169 single-family home lots, 77 townhome lots, and private and public roads. The Commission review covers Rules D, E, G and I. A complete plan was received March 25, 2022, and the initial submittals are still being reviewed by Staff.*

am. 2022-015 County Road 47 Phase 1 Reconstruction., Plymouth. *Hennepin County and the City of Plymouth are proposing to reconstruct approximately 4 miles of County Road (CR) 47 over the next few years. Phase 1 of the project extends from CSAH 101 to approximately 300 feet east of Lawndale Lane North. Improvements include reconstruction of CR 47 into a two-lane urban roadway, new trails, utility updates, and stormwater management BMPs. Commission review covers Rules D, E, and H. A complete plan was received on April 4, 2022, and the initial submittals are still being reviewed by Staff.*

an. 2022-016 Rogers Activity Center. *Redevelopment and additions to the Rogers Municipal Complex are proposed at 14160 James Road. The project includes site clearing, demolition of the existing asphalt pavement, and grading for a future turf and ice rink facility. The Commission review covers Rules D, E, G and I. A complete plan was received March 30, 2022*

FINAL RECORDINGS OR OTHER DOCUMENTATION/FOLLOW-UP ARE DUE ON THE FOLLOWING PROJECTS:

ba. 2014-015 Rogers Drive Extension, Rogers. *This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. Site plans received July 1, 2014 met the requirements of the Commission with the exception of the nutrient control. The Commission approved the site plan contingent upon the City deferring 4.6 lbs. of phosphorus for treatment in future ponding opportunities as the easterly corridor of Rogers Drive develops. 2.3 lbs. will be accounted for in the Kinghorn Spec. Building site plan, with 2.3 lbs. still outstanding. This item will remain on the report until the total deferral is accounted for.*

bb. 2015-030 Kiddiegarten Child Care Center, Maple Grove. *Approved December 9, 2015. If the City does not take over the operation and maintenance of the underground system and the sump catch basins, an O&M agreement for the underground trench/pond system must be approved by the Commission and the City and recorded with the title. On February 5, 2019 Derek Asche contacted the owner requesting a copy of the recorded maintenance agreement. No update was available on July 2, 2019. On November 2, 2021, Derek Asche reported there is no update for this project.*

bc. 2016-005W Ravinia Wetland Replacement Plan, Corcoran. *In December 2016, the Commission approved Staff's recommendations on this wetland replacement plan. Barr Engineering is providing monitoring to ensure the replacement meets the performance standards of the approved plans. Annual reports were submitted to the US Army Corps of Engineers (USACE) in February 2019, February 2020, and March 2021. As of March 2021, wetlands and buffers are looking good but will need continued vegetation management in 2021 to get rid of invasive species (mostly cattail). Hydrology is good in both the restoration and creation areas. *Cattail and Reed canary grass reemerged during the 2021 growing season and will likely need another year of aggressive maintenance in 2022. The 2021 monitoring report will be submitted to the USACE in March 2022 with recommendations for maintenance.**

bd. 2017-014 Laurel Creek, Rogers. *In June 2017, the Commission approved this project with four conditions. All contingency items have been provided with the exception of the O&M agreement which is being negotiated by the City as to whether the City or the HOA will be responsible for the operation and maintenance of the stormwater management facility. On August 31, 2017, Andrew Simmons responded that the O&M agreement is still being negotiated.*

be. 2017-029 Brayburn Trails, Dayton. *At their August 2017 meeting the Commission approved Staff's findings dated August 2, 2017 with five conditions. All of the conditions have been met except for the final recordings of the O&M agreements and easements. On March 7, 2018, the City reported: final plat approval has not been granted, easements will be recorded as plats are approved. Ponds will be maintained by the City of Dayton. An agreement, and additional easement, will*

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be required for a water re-use system within one of the ponds (between the City and HOA). This system is not part of the first addition – the timing of said improvements/agreement is unknown. Construction had been expected to start in 2018.

On February 7, 2019, Jason Quisberg provided the following information: The 1st Addition was scaled back from what was proposed; associated construction activity is significantly completed. Extension of trunk utilities through Staff Sundance Golf Course are complete. The proposed 2nd Addition is under review. Improvements to 117th Avenue (East French Lake Road to Fernbrook Lane) will be part of the work done with the 2nd Addition. Construction is anticipated to start spring 2019. Pond easements are being recorded with the platting process for each addition (those [that are] part of the 1st Addition are in place). The water re-use system is not part of the 2nd Addition (will be with future additions).

On March 4, 2021, Nico Cantarero reported that Brayburn Trails is continuing to construct homes. The development is through their 6th addition with approximately 2/3 of the development final platted. 117th Avenue improvements have been constructed and the development continues to build infrastructure and homes.

bf. 2018-046 Graco Expansion, Rogers. This project is the expansion of an existing building. The site is located in an area that has regional ponding provided for rate control purposes, but needs to account for water quality and abstraction requirements on-site prior to discharging offsite as part of the improvements. The Commission granted conditional approval at their October 2018 meeting. Conditions of approval were to (1) submit a SWPPP plan meeting requirements, (2) clarify maintenance responsibilities for the iron enhanced sand filter, and (3) a letter from the City of Rogers stating their intentions to provide the water quality deficit in an upcoming project. Staff confirmed several minor plan revisions remain in conformance with the original approval. This item will remain on the Staff report until such time as the water quality deficit has been made up.

bg. 2018-048 Faithbrook Church, Phase 2, Dayton. This project is an expansion of an existing church located northeast of the intersection of Fernbrook Lane and Elm Creek Road. The Commission approved this project in November 2018 conditioned upon receipt of a SWPPP meeting NPDES requirements and the City accepting maintenance responsibility or recording a modified O&M plan for the stormwater features on the site in a form acceptable to the Commission. On February 7, 2019, Jason Quisberg reported that this project has gone idle, likely due to funding needs of the applicant. On March 4, 2021, Nico Cantarero reported that the outlet to the church has been constructed. The church still has plans for a Phase 2 expansion, but it has not been initiated to date.

bh. 2019-021 Brenly Meadows, Rogers. This is a 38-unit townhome project proposed on 6.9 acres north of 129th Avenue about one-third mile west of Main Street. It triggered the Commission's review for Rules D, and E. This item was approved by the Commission at their August 2019 meeting, contingent upon O & M plan requirements for the stormwater pond and irrigation system.

bi. 2019-026 Interstate Power Systems, Rogers. This is a 10-acre site to construct a 1-acre building for a mechanical shop and 6 acres of parking and driveways along County Road 81. It triggered review of Rule D, E, G, and I. This item was approved by the Commission at their November 2019 meeting, contingent upon documentation of existing conditions pollutant loading and a recorded O&M plan for onsite BMPs. The applicant provided the pollutant loading data in November 2019. Commission is still awaiting the O&M plan.

bj. 2019-027 Havenwood at Maple Grove. This is a 5.6-acre site located at the northwest intersection of Bass Lake Road (CR10) and Troy Lane (CR101). The site is proposed to be subdivided into two lots. The southerly lot will be 4.5-acres with a 150-unit senior living facility. The remaining outlot (~1.3 acres) is anticipated to be a daycare facility. In their findings dated October 17, 2019, Staff recommended approval contingent upon the irrigation pond and system having an O&M plan approved by the City and Commission and recorded on the title for this property, with a copy provided to the Commission. On November 2, 2021, Derek Asche reported no update for this project.

bk. 2020-008 Ione Gardens, Dayton. This project is located at the northwest intersection of CSAH 144 (Diamond Lake North) and 12 (Dayton River Road). The site consists of three agricultural properties totaling 48.29 acres. 112 new single-family residential lots creating 16.84 acres of new impervious surface area are proposed for this development. The Commission's review was for compliance with Rules D, E, G, and I. At their October 2020 meeting the Commission

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approved Phase I grading on the north 14-acre area conditioned that: a) the applicant accepts any and all risks for any changes required to obtain final approval by the Commission and b) that the City of Dayton grants approvals for said grading, and to deny the remainder of the application unless the applicant extends the review deadline beyond the current October 21, 2020, deadline. The applicant extended the deadline to November 30, 2020. Updated site plans received November 16, 2020, met the contingencies of the Commission approval with the exception of the post development infiltration basin percolation test requirements. At their December meeting the Commission approved the updated plans contingent upon post-development percolation tests being provided on infiltration basins to demonstrate the constructed infiltration rate meets or exceeds the design infiltration rates.

On March 4, 2021, Nico Cantarero reported that Lone Gardens constructed their 1st addition of approximately 30 homes along the northern portion of the site. The developer has indicated plans to grade the remainder of the site and construct the 2nd addition of the development in 2021 which would include the second access to the site onto North Diamond Lake Road.

bl. 2020-009 Stetler Barn, Medina. This site disturbs approximately 3.5 acres and must meet Commission Rules D, E, and I. Because of the limited available space for pasture, paddocks and land application of manure, understanding how these components will be managed was also an important part of the review. A complete plan was received on April 22, 2020. At their May 13, 2020, meeting the Commission approved this project contingent upon: 1) the landowner continuing to work with the U of M Extension Office and Hennepin County Rural Conservationist to finalize composting, pasture and paddock management plans and 2) a long-term pond/basin operation and maintenance plan and agreement with the City of Medina being approved by the City and the Commission. The agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.

bm. 2020-017 Meadow View Townhomes, Medina. This is a 22-acre site located south of Meander Road and north of Highway 55. Lennar Homes is proposing to build 125 townhomes with their necessary infrastructure on this site. A complete application was received May 29, 2020. The plans call for 7.64 acres of new impervious areas. The Commission's review was for conformance to Rules D, E, F, G, and I. At their October meeting, the Commission approved Staff's finding dated September 30, 2020, contingent upon (1) The mean (average) depth on the west wet detention pond must be 4.0' or deeper; (2) Buffer strip monumentation and vegetation maintenance plans must conform to the Commission's requirements; (3) An operation and maintenance agreement of the stormwater ponds and irrigation system must be approved by the City and the Commission. The agreement must be recorded on the property title with a copy of the recorded document provided to the Commission; and (4) Erosion and sediment controls must conform to Commission requirements. Since the approval, the City of Medina has requested the applicant provide abstraction by irrigation only, thus eliminating one filter basin. Staff reviewed the changes and found the updates to be compliant with the Commission's original approvals for stormwater management and administratively approved the plans contingent upon item (3) above and added the condition that design information on the irrigation pump and augmentation water source must be provided within six months of this approval. On November 2, 2021, Dusty Finke provided the Commission with a copy of the recorded O&M agreement.

bn. 2020-023 Ziegler, Dayton. This is an existing 4.73-acre commercial parcel located on Territorial Road near Holly Lane close to the Maple Grove/Dayton border. Currently the property consists of a building with bituminous drive and parking areas and a large gravel storage yard. The applicant is proposing to utilize the existing building, construct an additional commercial building, expand the bituminous parking lot, and add gravel lots for merchandise display and storage, triggering Commission Rules D, E, G, and I. The Commission approved this project at their August 2020 meeting contingent upon wetland permitting being obtained and an Operation & Maintenance agreement being recorded on the land title. The wetland permit has been approved, but the O&M plan has yet to be received. On March 4, 2021, Nico Cantarero reported that Ziegler plans to construct their site improvements in 2021.

bo. 2020-032 Enclave Rogers – Commerce Boulevard., Rogers. This project would create an apartment complex on a 3.3-acre site. The existing condition is undeveloped. The project will disturb the entire site and create 2.15 acres of impervious surface. The applicant is proposing an iron enhanced sand filter to meet Total Phosphorus removal requirements. The site is within two of the three outlots created as part of the adjacent former Lowe's development. The applica-

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tion was reviewed for Rules D and E. Staff granted administrative approval for grading contingent on applicant accepting risk for changes required for final approval and on approval from the City for grading activities. In their findings dated December 2, 2020, Staff recommended approval with those conditions, as well as submission of an O&M agreement for stormwater features and with minor updates to the hydrology report and the SWPPP. The Commission approved Staff recommendations at their December 9, 2020, meeting.

bp. 2020-033 Weston Woods, Medina. This project would create 150 residential units on a 135-acre undeveloped site. The project will disturb 49.2 acres and create 17.49 acres of impervious area. The Commission approved this project at their March 2021 meeting with four contingencies: a) Wetland replacement plans must be approved by the City of Medina (LGU), MN DNR and USACE prior to impacts, b) Provide quantification of the change in flood storage capacity for the one-percent annual chance flood event due to the proposed project, c) Provide documentation that changes in flood elevation and loss of floodplain storage have been avoided, minimized, and/or mitigated to the extent practicable. Demonstrate that changes in flood elevation will not cause high water or aggravate flooding on other land and, d) An O&M agreement for stormwater facilities, including irrigation pumping system components and augmentation wells system, must be approved by the City and the Commission and recorded within 90-days after final plat approval on the title to this property. A copy of the recorded agreements must be provided to the Commission.

bq. 2020-036 Balsam Pointe, Dayton. This project will create 98 residential units on a 10-acre site near the intersection of Diamond Lake Road South and Dayton Road. The existing condition is undeveloped. The project will disturb the entire site and create 5.3 acres of new impervious. The application was reviewed for Rules D and E. The Commission approved Staff's recommendations at their January 13, 2021, meeting contingent upon an O&M agreement meeting the Commission's standards being recorded on the land title.

br. 2021-007 Birchwood 2nd Addition, Rogers. This project is east of CR13 (Brockton Lane) approximately 1/2 mile south of the intersection of CR 144 (141st Avenue North) and CR13. The applicant is proposing to develop the site into 30 single-family residential lots. The site drains south and east into Grass Lake. This work will disturb 10 acres and create 4.0 acres of new impervious area. At their April 2021 meeting the Commission approved this project contingent upon the final SWPPP being submitted prior to grading and receipt of any outstanding project review fees.

bs. 2021-016 Territorial Lofts, Rogers. This is a 5.39-acre site on Territorial Road, adjacent to the Laurel Creek development. The project would construct a 75-unit apartment building, underground parking, a detached garage, maintenance facilities, and access road, creating 2.397 acres of total impervious (1.86 acres net new impervious) and disturbing 5.2 acres. The existing site is two single-family residential homes. The site proposes to use stormwater reuse with an irrigation system to meet abstraction requirements due to low infiltration capacity soils. The project was reviewed for Rules D, E, G, and I. The project was approved by the Commission at its July 2021 meeting contingent upon receipt of outstanding project review fees and a stormwater maintenance agreement being put in place between the owner and the city with terms acceptable to the Commission. *The outstanding fees have been received.*

bt. 2021-020 Crew Carwash, Maple Grove. This project would reconstruct an existing bank building and parking lot on a 1.80-acre parcel into a carwash. The site is located southwest of the intersection of Weaver Lake Road and Elm Creek Boulevard with access from Grove Drive. The disturbance is 1.52 acres, the existing impervious is 1.07 acres, and the proposed impervious is 1.17 acres. Runoff from this site flows into a regional pond on Arbor Lakes Parkway, which ultimately discharges to Rice Lake. The City has stated that the regional pond meets rate control and water quality treatment for the site. The applicant is proposing to use soil amendments to meet the Commission's volume rules. The Commission approved the project at its June meeting contingent on a maintenance agreement being filed with the City with terms agreeable to the Commission. The surplus escrow will be returned to the applicant.

bu. 2021-021 Territorial Triangle, Dayton. This site is in the easterly triangle Territorial Road and CR 81 intersection near the border of Dayton and Maple Grove. The applicant is proposing to subdivide the 14+acre parcel into 30 rowhome units and 56 townhome units. Two ponding basins are proposed for stormwater management. This work will disturb approximately 10 acres and create 5.7 acres of new impervious areas. The Commission approved Staff's recommendations cited in their findings dated July 22, 2021 contingent upon (a) final application escrow fee balance

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determination by the Commission administrator and (b) provision of a Stormwater Maintenance Agreement for the irrigation system that is acceptable to the city and the Commission within 90 days after the plat is recorded. The surplus escrow will be returned to the applicant.

bv. 2021-023 Maple Grove MOB, Maple Grove. This project would construct a Medical Office Building and associated parking on an undeveloped parcel. The site is located on the southeastern corner of the intersection of 105th Avenue North and Niagara Lane, immediately north of the Highway 610 and Maple Grove Parkway interchange. The project was reviewed for Rules D and E. The Commission approved this project at its October 2021 meeting contingent on: receipt of deficit fee escrows and an operation and maintenance agreement with the City.

bw. 2021-024 Riverwalk, Dayton. This site is south of CR 12 (Dayton River Road) and west of River Hills Parkway approximately 1/4 mile north of CR 144 (Diamond Lake Road). The applicant proposes to construct a new single family residential subdivision with 242 lots including one amenity lot and a city well site. Site development will include removal of an existing home site, grading 94 acres, and installation of municipal sewer and water, streets, and stormwater systems. The Commission approved Staff's recommendations in their findings dated August 11, 2021, at their August 2021 meeting contingent upon four conditions. The surplus escrow will be returned to the applicant.

bx. 2021-027 Xcel Energy Elm Creek Substation, Maple Grove. Xcel Energy is proposing to expand an existing electrical substation between Maple Grove Parkway and Fernbrook Lane near the Highway 610 expansion. The expansion will occur within the existing 17.09-acre parcel. The project was reviewed for Rules D and E. The Commission approved this project at its October 2021 meeting contingent on receipt of deficit fee escrows and an O&M agreement with the City.

by. 2021-035 Mister Carwash, Rogers. The project includes redevelopment of an existing, vacant Staff restaurant building, parking lot, and drive-through into a new carwash facility at 21421 South Diamond Lake Road. The redevelopment is anticipated to decrease the impervious area by approximately 0.3 acres at the project site and add an underground filtration basin with underdrain. The project was reviewed for Rules D and E. The Commission approved this project at its December 2021 meeting with four contingencies: 1) receipt of deficit escrows, 2) a Stormwater Maintenance Agreement, including irrigation system, being entered with the City, 3) A wetland replacement plan approved by the LGU and the TEP, and 4) the buffer plan contingent upon approval of the wetland replacement plan.

bz. 2021-036 D&D Service, Corcoran. The D&D Service development is proposed at the southeast corner of the intersection of County Roads 10 and 19 on a 16.54-acre parcel. The proposed project will include a large warehouse and office buildings along with parking and associated facilities. The existing site is a single farmhouse and surrounding agricultural land. The project was reviewed for Rules D, E, G, and I. Findings updated October 5, 2021, wherein Staff recommended contingent approval with five conditions, were approved at the October meeting.

ca. 2021-040 NAPA Auto Store, Corcoran. This project is located at the northwest intersection of CR 116 and 75th Avenue on the old Liquor Store parcel. The applicant proposes to demolish the current building and adjoining parking areas and construct a 12,800 SF NAPA Auto building, parking lot and associated utilities. An extra 3,600 feet of building area is proposed for future expansion and is included within the stormwater management design for this site. The Commission approved this project at their October 2021 meeting contingent upon return of surplus project escrows and a stormwater maintenance agreement being put in place between the owner and the City per Commission requirements.

cb. 2021-041 Carlson Ridge, Plymouth. This is an existing 4.82-acre residential lot located between Vagabond and Troy Lanes just north of 56th Avenue North. The property will be subdivided into 13 single-family lots. The existing residence will remain, but portions of the driveway and an outbuilding will be demolished. The Commission approved this project at their October 2021 meeting contingent upon, (1) final escrow balance determination when final unconditional approval is granted, (2) wetland impacts cannot occur until appropriate LGU and WCA approvals, and (3) long term operation and maintenance of the stormwater system is determined. The City of Plymouth has agreed to the long-term operation and maintenance of the filter basin so Items 1 and 2 are the only outstanding conditions as of this update.

STANTEC PRE-PROJECT REVIEW COMMUNICATION LOG (Last 3 months)

*Elm Crk Technical Services
Prereviews and Inquiries*

Date	Applicant Name	Applicant Representative	Project	Municipality	Time Charged (hours)
1/3/2022	Civil Site Design	Dave Knaeble	Cook Lake Highlands-- interested in flood elevation of Cook Lake	Corcoran	0.25
1/5/2022	City of Corcoran	Steve Hegland	Bellwether 7th Addition- question regarding prior approvals at the site	Corcoran	0.50
1/5/2022	Westwood	Chritian Froemke	Development in Rogers-- question regarding stormwater reuse	Rogers	0.25
1/6/2022	Loucks Associates	Vicki VanDell	Summerwell Development- ECWMC Application Requirements	Maple Grove	0.25
1/12/2022	Westwood	Chritian Froemke	Development in Rogers-- question regarding low floors	Rogers	0.25
1/12/2022	Landform	Tom Meyer	Development by City of Rogers	Rogers	0.25
1/12/2022	EOR	Daniel Mossing	Three Rivers Park District Bridge Replacement	Maple Grove	0.50
1/17/2022	Kimley Horn Engineering	Stephanie Thulien	Dayton Project- Submitting flood study	Dayton	0.25
1/19/2022	Sambatek	Conner Deur	French Lake Industrial Center- question on subsurface filtration standards	Dayton	0.00
1/19/2022	Landform	Tom Meyer	Asguard Rogers	Rogers	0.75
1/25/2022	Stantec on behalf of City of Corcoran	Steve Hegland	Bechtold Property	Corcoran	0.75
2/7/2022	JR Hill	Rick Osborg	Rogers Development	Rogers	0.50
2/28/2022	Stantec on behalf of City of Co	Kent Torge	Proposed Revision to Rules based on MS4	Corcoran	0.25
3/1/2022	Streeter Custom Homes	Andrew [Last Name not provided]	Additions on Bantle Farm Road	Medina	0.25
3/1/2022	WSB	Earth Evans	Arrowhead Drive Turn Lanes	Medina	0.25

HENNEPIN COUNTY

MINNESOTA

DATE: April 6, 2022

TO: Elm Creek Watershed Management Commission (ECWMC)

FROM: Kevin Ellis, Paul Stewart, and Kris Guentzel; Hennepin County Department of Environment and Energy

RE: March ECWMC Updates

Project / Program Updates

Jubert Lake Agricultural BMPs Phase 1A

Hennepin County staff met with EOR to discuss updates based on neighboring WASCOB project. EOR needs to do survey work before completing updates to the plan set. Completed updates are currently under review by Hennepin County. Construction slated to begin in Summer and Fall 2022.

27015 123rd Ave N., Rogers

Hennepin County met with Anoka County SWCD to discuss filter strip designs and species for planting. Recommendations have been received and incorporated into plan. Hennepin County is now developing contract for landowner to sign.

13861 129th Ave N., Dayton

Landowner requested scaled up version of manure bunker plans (20 feet x 20 feet with a 6 foot apron). Hennepin County is currently seeking updates to the plan set with this amendment. Construction for this manure bunker is still projected to begin in Spring 2022.

22835 County Road 10, Corcoran

Landowner has quote for livestock exclusion fencing from contractors. Will return that information and currently working through contracting process. Project scheduled to be executed in Spring 2022.

9945 Sundance Road

Hennepin County staff met with engineer from Wright County to discuss possible BMP projects. Survey points were requested to make recommendations. Survey work should be completed by the end of April

Potential Future Work

MPCA Small Watershed Focus Program

Hennepin County is currently investigating feasibility of participating in the [Small Watershed Focus Program through the Minnesota Pollution Control Agency](#). The program is part of Section 319 of the federal Clean Water Act and provides access to four, four-year grants (16 years total) to support water quality projects in targeted watersheds. Hennepin County staff is meeting to determine if the Rush Creek Subwatershed, or other similar priority areas may be a candidate for this funding.

BWSR Soil Health Grants

Hennepin County staff are interested in assisting other organizations, such as ECWMC, to apply for a [Soil Health Grant through the Board of Water and Soil Resources](#). This grant opportunity is for work related to the adoption of soil health practices that will benefit water quality. Hennepin County would not qualify as an applicant but is interested in assisting other organizations with this work. Further investigation into this opportunity is currently underway. Applications for funding are due May 9th, 2022.

Updates to Natural Resource Strategic Plan

Despite the winter's cold and snow, development work is heating up as county staff continue meeting with partners and the public to discuss future priorities in our next Natural Resources Strategic Plan.

Following completion of our [first phase of public outreach](#), staff have continued outreach over the winter focused on listening and learning from a more diverse set of voices, including meetings with both Southside and Northside Green Zone Task Forces in Minneapolis and with different youth groups.

County staff hosted our first two Collaboration Group meetings with key public entity partners. Participating external partners included those managing natural resources, water resources, and parks and trails in diverse geographies across the county. Internal collaboration partners spanned from those with clear intersections with environmental protection such as Transportation and Facility Services, to those with emerging roles, including the new [Climate and Resiliency Department](#). For partners not actively involved in these collaboration groups, there will continue to be plenty of opportunities to provide input and engage in plan development. The best way to learn about those opportunities is to sign up to receive updates [here](#).

Both internal and external partners suggested the county could play a larger role in natural and water resource protection, building off historic and recent successes working directly with or supporting partners and in interacting with communities and residents in the county's role as a Soil and Water Conservation District. Collaboration partners see the county playing a crucial role in connecting partners and bridging gaps across borders and jurisdictions. Continuing and expanding this role is key to success on more challenging projects and focus areas, such as mitigating climate change and advancing environmental justice.

Staff are using these learnings to begin development of plan goals and strategies on topics identified during the [first phase of the plan development](#), focusing on natural features and concerns most critical to residents: Wildlife & Habitat, Hydrogeology, Surface Waters, Urban Ecosystems, and Rural Ecosystems. Staff work groups were developed comprising subject matter experts in each of these areas and work is ongoing to develop a plan framework from these discussions. Staff anticipate having a draft framework by late spring, with the next phase of public outreach planned this summer to receive feedback on that framework.

Continue to look for updates in the Green Notes newsletter and on our [project website](#). Please also [sign up for email updates](#) to stay informed and learn about opportunities to provide feedback..



To: Elm Creek WMO Commissioners
Elm Creek TAC

From: Diane Spector

Date: April 6, 2022

Subject: Elm Creek WBIF Convene Meeting #2

**Recommended
Convenor Action**

Continue to discuss options

At our second convene meeting we will continue to discuss potential opportunities for funding, starting to develop priorities and strategies to guide the selection process.

A table of potential general activities is attached. Please review and bring any additional items to the meeting for further discussion.

1. The amount allocated to the Elm Creek watershed Area is **\$297,774**, which will become available July 1, 2022 and expire December 31, 2025. Funding must be focused on prioritized and targeted cost-effective actions with *measurable water quality results* that were identified in the implementation section of a state approved and locally adopted comprehensive watershed management plan.
2. The BWSR-Recommended Convene Meeting Process:
 - a) Choose a facilitator. (*Selected ECWMC*)
 - b) Choose a decision-making process. (*Selected consensus*)
 - c) Decide how to select activities for funding. Note that partnerships may also want to choose funding targets for different categories (e.g., projects, studies, education).
 - d) Select the highest priority, targeted, measurable, and eligible activities to be submitted to BWSR as a budget request.
 - e) Confirm which entity will serve as grantee and/or fiscal agent for each selected activity and decide on the source of the 10% required match.
3. Discuss preference for funding:
 - a) Limit to one or two activities or fund several activities.
 - b) Focus on one or two specific resources (one or two lakes; a stream)
 - c) Fund an existing CIP project or projects.
 - d) Solicit new ideas.
 - e) Other
4. Discuss and generate specific options for funding, starting with attached.

Table 1. Potential WBIF-Funded Actions

Action	Partners	Year	Total	Share
CIP Projects				
South Fork Rush Creek Stream Restoration	Maple Grove	2022	3,250,000	812,500
CSAH 12/Dayton River Road Ravine Stabilization	TRPD	2023	382,000	95,500
CIP-2016-RO-03 Downtown Pond Exp & Reuse	Rogers	2023	406,000	101,500
Reconstruct Bridge at Cartway and Elm Creek	Champlin	2024	950,000	237,500
Tower Drive West Stormwater Improvement	Medina	2024	271,250	67,813
Brockton Lane Water Quality improvements	Plymouth	2024	150,000	37,500
Lowell Pond Raingarden	Champlin	2024	400,000	100,000
The Meadows Playfield	Plymouth	2024	5,300,000	250,000
Rush Ck Eastman Nature Ctr Oxbow Trail Channel Stabil	M Grove, TRPD	2024	100,000	25,000
TMDL Actions				
Rough fish management	TRPD		25,000-50,000	
Internal load feass: Rice, Diamond, Goose, Cowley, Sylvan, Henry	TRPD		15,000-30,000	
CLP management: Rice, Diamond, Cowley, Sylvan, Henry	TRPD		25,000-30,000	
Update stream condition assessments	HCEE, TRPD, cities		15,000-20,000	
Small BMPs (add to cost share program)	cities, TRPD		50,000-100,000	
Small BMPs (add to partnership program)	cities		25,000-50,000	
SWAs				
Ag cost share projects	HCEE		50,000-100,000	
Streambank repairs in ID'd areas	HCEE, cities, owners		50,000-100,000	
Additional SWA in priority area	HCEE, cities		30,000-50,000	
Education and Outreach				
Targeted ed/outreach: nutrients and sediment	HCEE, WMWA, cities		10,000-50,000	
Targeted ed/outreach: bacteria & manure mgmt	HCEE, WMWA, cities		10,000-50,000	
Targeted ed/outreach: chloride	HCEE, WMWA, cities		10,000-20,000	
Contribution toward shared staff person (over 2years)	WMWA		20,000-30,000	

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Presiding Officer Statement to Return to In-Person Meetings

As the Presiding Officer for the Elm Creek Watershed Management Commission (Commission) I find as follows:

- a. The COVID-19 pandemic has necessitated the Commission to conduct electronic meetings pursuant to Minnesota Statutes, section 13D.021 for most of the last two years.
- b. Given the sharp decline in the number of cases and the CDC having relaxed or removed its masking, social distancing, and related protective recommendations, it is possible for the Commission to return to in-person meetings.
- c. I will continue to monitor the health pandemic and will issue a statement to return to electronic meetings if that becomes necessary.

Based on the above findings, I hereby determine and state as follows:

1. Effective as of 12:01 a.m. on May 1, 2022, meetings of the Commission and the Technical Advisory Committee shall return to in-person meetings conducted in accordance with the Minnesota Open Meeting Law.
2. The previous statement directing meetings to be conducted by electronic means is rescinded effective as of 12:01 a.m. on April 1, 2022.

Dated this ____ day of April 2022.

Doug Baines, Chair