

elm creek

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jHerbert@barr.com

August 5, 2020

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, August 12, 2020, at 11:30 a.m.** **This will be a virtual meeting.**

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join a 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**.

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

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 the regular meeting.

Thank you.



Judie A. Anderson
Administrator
JAA:tim

Encls: Meeting Packet

cc:	Alternates	Jim Herbert	Joe Waln	James Kujawa	DNR
	TAC Members	Kris Guentzel	Brian Vlach	Diane Spector	BWSR
	City Clerks	Kirsten Barta	Met Council	Official Newspaper	MPCA

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AGENDA Regular Meeting August 12, 2020

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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 – *see Staff Report*.*
 - b. Call for Public Hearing.*
5. Old Business.
 - a. Manufactured Treatment Devices (MTDs) – follow-up discussion.
6. New Business.
7. Communications.
 - a. Staff Report.*
 - b. Conservation Projects.*
8. Education.
 - a. WMWA – next meeting - August 11, 2020, at 8:30 a.m. This will be a **virtual** meeting.
9. Grant Opportunities and Updates. (over)

*in meeting packet
**available at meeting or on website

10. Project Reviews.

Item No.	A	E	I RPF	AR	Project No.	Project Name
			RP D			
					W Denotes wetland project	
ah.				AR	2014-015	Rogers Drive Extension, Rogers.
ai.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
aj.				AR	2016-002	The Markets at Rush Creek, Maple Grove.
ak.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
al.				AR	2016-047	Hy-Vee North, Maple Grove.
am.				AR	2017-014	Laurel Creek, Rogers.
an.				AR	2017-029	Brayburn Trails, Dayton.
ao.				AR	2017-039	Rush Creek Apartments, Maple Grove.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
b.					2018-020	North 101 Storage, Rogers.
ap.				AR	2018-026	Windrose, Maple Grove.
aq.				AR	2018-028	Tricare Third Addition, Maple Grove.
c.					2018-046	Graco, Rogers
ar.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
as.				AR	2019-001	Fernbrook View Apartments, Maple Grove.
at.				AR	2019-002	Parkside Villas, Champlin.
au.				AR	2019-021	Brenly Meadows, Rogers.
d.					2019-024	Boston Scientific, Maple Grove.
av.				AR	2019-027	Havenwood at Maple Grove.
aw.				AR	2019-032	OSI Expansion, Medina.
e.					2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
f.					2020-002	Project 100, Maple Grove.
g.					2020-008	Ione Gardens, Dayton.
ax.				AR	2020-009	Stetler Barn, Medina.
h.	A	E			2020-013	Territorial Greens Residential (West), Maple Grove.
i.	A	E			2020-014	Territorial Greens Residential (East), Maple Grove.
j.					2020-015	Dayton Interchange Business Center, Dayton.
k.					2020-016	Lennar Terr Road Development (Skye Meadow), Rogers.
l.					2020-017	Meadow View Townhomes, Medina.
m.					2020-0020	Crow Hassan Streambank Stabilization , Rogers.
n.	A	E			2020-021	Industrial Boulevard Extension Project, Rogers.
o.	A	E			2020-022	Elm Road Area Street & Utility Project, Maple Grove.
p.	A	E			2020-023	Ziegler Dayton Site Upgrades, Dayton.
q.					2020-024	Walti Culvert Exchange, Corcoran.
r.					2020-025	Paulsen Farms, Corcoran.
s.					2020-026	Rogers HS Addition and Renovation, Rogers.

= Action item E = Enclosure provided I = Informational update will be provided at meeting RPF - removed pending further information
R = Will be removed RP= Information will be provided in revised meeting packet..... D = Project is denied AR awaiting recordation

11. Other Business.

12. Adjournment.

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*in meeting packet

**available at meeting or on website

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Regular Meeting Minutes July 8, 2020

I. A virtual meeting of the Elm Creek Watershed Management Commission was called to order at 11:31 a.m., Wednesday, July 8, 2020, by Chair Doug Baines.

Present were: Gerry Butcher, Champlin; Ken Guenther, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Jake Gateman, Plymouth; Kevin Jullie, Rogers; Kris Guentzel, Hennepin County Dept. of Environment and Energy (HCEE); Joe Waln, Barr Engineering; James Kujawa, Surface Water Solutions; Brian Vlach, Three Rivers Park District (TRPD); and Amy Juntunen, JASS.

Also present: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Nico Cantarero, Wenck Assocs., Dayton; Derek Asche and Mark Lahtinen, Maple Grove; and Amy Riegel and Ben Scharenbroich, Plymouth.

A. Motion by Weir, second by Butcher to approve the **agenda**. * *Motion carried unanimously.*

B. Motion by Weir, second by Jullie to approve the **minutes*** of the June 10, 2020 regular and public meeting. *Motion carried unanimously.*

C. Motion by Guenther, second by Weir to approve the July **Treasurer's Report** and **Claims*** totaling \$29,370.79. *Motion carried unanimously.* Staff will contact Guenther to explain why the Floodplain Mapping line item appears to be over budget.

II. Open Forum.

III. Action Items.

Project Review 2020-020 Crow Hassan Streambank Stabilization, Rogers.** TRPD is proposing to stabilize 175 feet of streambank on the east side of the Crow River and provide a permanent stairway access to the river to prevent future erosion. The project is located within the TRPD dog park east of CSAH 116 at the Hennepin/Wright County boundary. The project was reviewed for Commission Rules E and F. The area has been eroded over several years from foot traffic accessing the site. The project will reduce erosion and there will be no floodplain fill as the restoration was not originally considered floodplain. Staff recommends approval with no conditions. A DNR permit has been granted. Motion by Weir, second by Jullie to approve Staff's recommendation. *Motion carried unanimously.*

IV. Old Business.

Staff presented an update on the **Manufactured Treatment Device (MTD) workgroup**. The workgroup consists of representatives from several watersheds, communities, and industry members. The purpose of the workgroup is to define a certification process for MTDs and create certification for inclusion in the Minnesota Stormwater Manual. To date, Staff have attended five meetings on behalf of the Elm Creek and Bassett Creek WMOs and anticipate three to five additional meetings to complete the process. The original

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

elm creek Watershed Management Commission

Regular Meeting Minutes – July 8, 2020

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estimated budget for this process was \$1,500-\$2,000 to attend the meetings. As of now, the Commission's share of Staff time for workgroup participation and reporting to the Commission is at \$2,800. Motion by Guenthner, second by Weir to cap the full and final support of the workgroup at \$4,000. *Motion carried unanimously.* Commissioners requested an update from Waln at the August meeting on the actual process of the workgroup.

V. New Business.**VI. Communications.**

Minnesota Stormwater Seminar website link to video* and written Q and A's*.

VII. Education and Public Outreach.

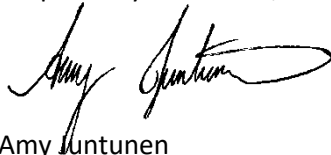
WMWA. The **West Metro Water Alliance** will meet via Zoom at 8:30 a.m., Tuesday, August 11, 2020. The July meeting has been canceled

VIII. Grant Opportunities and Project Updates.**IX. Other Business.**

A. The **projects** listed on the following page are discussed in the July Staff Report.

B. Adjournment. There being no further business, motion by Weir, second by Butcher to adjourn. . *Motion carried unanimously.* The meeting was adjourned at 12:17 p.m.

Respectfully submitted,



Amy Juntunen
Recording Secretary
AAJ:tim

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elm creek Watershed Management Commission

Regular Meeting Minutes – July 8, 2020

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h.					2020-008	Ione Gardens, Dayton.
ay.				AR	2020-009	Stetler Barn, Medina.
i.					2020-010	Birchwood, Rogers.
j.		E			2020-011	Bellwether 4th/5th Addition, Corcoran.
k.					2020-012	Wayzata HS Parking Lot, Plymouth.
l.					2020-013	Territorial Greens Residential (West), Maple Grove.
m.					2020-014	Territorial Greens Residential (East), Maple Grove.
n.					2020-015	Dayton Interchange Business Center, Dayton.
o.					2020-016	Lennar Terr Road Development (Skye Meadow), Rogers.
p.		E			2020-017	Meadow View Townhomes, Medina.
q.					2020-018	MN Health Village Wetland Restoration, Maple Grove.
r.		E			2020-019	Sundance Greens Fourth Addition, Dayton.
s.	A	E			2020-020	Crow Hassan Streambank Stabilization , Rogers.

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CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	July 2020	Aug 2020	2020 Budget YTD
EXPENSES					
Administrative		90,000	8,893.85	6,247.05	61,472.82
Watershed-wide TMDL Admin		300			0.00
Grant Writing		1,000			0.00
Website		3,000	386.55	955.75	2,655.90
Legal		2,000	108.50		139.50
Audit		5,000		6,000.00	6,000.00
Insurance		3,900			3,644.00
Miscellaneous/Contingency		1,000			0.00
Technical Support - HCEE		15,000			0.00
Floodplain Mapping		39,360	7,069.00	10,040.50	56,273.50
Project Review Technical (Job 300)		185,000	5,345.00	6,637.00	37,704.99
Other Technical (Jobs 100 & 200)			5,279.50	5,154.50	42,988.50
Project Reviews - Admin		15,000	602.28	1,148.22	4,806.89
WCA - Technical		3,000			0.00
WCA - Legal		500			0.00
WCA - Admin		1,000			0.00
Stream Monitoring USGS		24,000		15,705.00	15,705.00
Stream Monitoring TRPD		7,200			0.00
DO Longitudinal Survey		1,000			0.00
TMDL Follow-up - TRPD		1,000			0.00
Rain Gauge		250	31.69	32.83	208.83
Rain Gauge Network		100			0.00
Lakes Monitoring - CAMP		760			0.00
Lakes Monitoring - TRPD					
Sentinel Lakes		8,100			0.00
Additional Lake		2,500			0.00
Aquatic Vegetation Surveys		1,100			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		3,000	568.60	35.00	1,007.89
WMWA General Activities		5,000			3,000.00
WMWA Educators/Watershed Prep		4,500			2,000.00
WMWA Special Projects		2,000			1,000.00
Rain Garden Workshops/Intensive BMPs		3,000			625.00
Education Grants		1,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Projects ineligible for ad valorem		0			0.00
Studies / Project ID / SWA		0	106.44		908.67
Plan Amendment		2,000	683.38	113.75	1,409.24
<i>Transfer to (from) Encumbered Funds (see below)</i>					0.00
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		448,935			0.00
<i>Transfer to (from) Cash Sureties (see below)</i>			296.00		2,386.70
<i>Transfer to (from) Grants (see below)</i>		125,000	-	-	0.00
<i>To Fund Balance</i>					0.00
TOTAL - Month			29,370.79	52,069.60	243,937.43
TOTAL Paid in 2020, incl late 2019 Expenses		1,012,505.00	313,952.15	366,021.75	2020 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	July 2020	Aug 2020	2020 Budget YTD
INCOME					
<i>From Fund Balance</i>					
Floodplain Modeling		39,360			
Project Review Fee		80,000	12,012.50		63,854.00
Return Project Fee					0.00
Water Monitoring - TRPD Co-op Agmt		5,500			0.00
WCA Fees		0			0.00
Return WCA Fee					0.00
Reimbursement for WCA Expense					0.00
WCA Escrow Earned					0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		8,250	24.30		5,220.52
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		448,935	155,012.64		155,012.64
<i>Transfer to (from) Cash Sureties (see below)</i>					
<i>Transfer to (from) Grants (see below)</i>		100,000	-	-	0.00
Misc Income					0.00
Total - Month			167,049.44	0.00	461,387.16
TOTAL Rec'd 2020, incl late 2019 Income		919,345.00	509,970.56	509,970.56	2020 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,263,863.98	1,459,882.39	1,407,812.79	
Cash on Hand			1,459,882.39	1,407,812.79	
CASH SURETIES HELD		Balance Fwd			Activity 2020
WCA Escrows Received		11,494.47			0.00
WCA Escrow Reduced			296.00		2,386.70
Total Cash Sureties Held		11,494.47	9,107.77	9,107.77	
RESTRICTED / ENCUMBERED FUNDS		Balance Fwd			
<i>Restricted for CIPs</i>		765,131			765,131.00
<i>Enc. Studies / Project Identification / SWA</i>		205,437			205,437.00
Total Restricted / Encumbered Funds		970,568	970,568.00	970,568.00	
			July 2020	Aug 2020	2020 Budget YTD
GRANTS					
Fish Lake CWLA					
Revenue					-
Expense					-
Balance			-	-	-
Rush Creek SWA					
Revenue					-
Expense					-
Balance			-	-	-
BWSR Watershed-based Funding					
Revenue					-
Expense					-
Balance			-	-	-
TOTAL GRANTS					
Revenue			-	-	-
Expense			-	-	-
Balance			-	-	-

Elm Creek Watershed Management Commission Treasurer's Report

Claims Presented		General Ledger Account No	July	August	TOTAL
Campbell Knutson - Legal		521000			0.00
Connexus - Rain Gauge		551100		32.83	32.83
Barr Engineering					21,832.00
Floodplain Mapping		580440		10,040.50	
Project Review Technical (Job 300)		578050		6,637.00	
Other Technical (Jobs 100 & 200)		578050		5,154.50	
Ravinia Wetland Mitigation		240201			
Johnson & Company - Audit, Financial Prep		521000		6,000.00	6,000.00
U S Geological Survey - Stream Monitoring		551000		15,705.00	15,705.00
JASS					8,499.77
Administration		511000		5,524.34	
TAC Support		511000		722.71	
Website		581000		955.75	
Project Reviews		578100		1,148.22	
Plan Amendment		541500		113.75	
Education		590000		35.00	
CIPs General		563001			
TOTAL CLAIMS					52,069.60

**Elm Creek Watershed Management Commission
2020 Treasurer's Report - Capital Improvement Project Tracking**

item 02b

CIPs		Amount	%age	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	JAN 2020	FEB 2020	MAR 2020	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	TOTAL 2020	TOTAL ALL YEARS
	2016-01 Fox Creek Phase 2 Bank Stabl	80,312.00	16.296														
	Revenue			-	80,353.26	(98.25)	(694.43)									-	79,560.58
	Expense			106.32	-	-	-									-	106.32
	Balance			(106.32)	80,353.26	(98.25)	(694.43)					-		-	-	-	79,454.26
	2016-05 Fish Lake Alum Trmt Phase 1	75,000.00	15.219														
	Revenue			-	75,042.75	(91.75)	(648.52)									-	74,302.48
	Expense			106.32	-	-	-									-	106.32
	Balance			(106.32)	75,042.75	(91.75)	(648.52)					-		-	-	-	74,196.16
	2017-01 Fox Creek Phase 3 Streambar	112,500.00	25.714														
	Revenue			-	-	112,347.11	10.83							26.68		26.68	112,357.94
	Expense			-	135.85	-	-									-	135.85
	Balance			-	(135.85)	112,347.11	10.83					-		26.68	-	26.68	112,222.09
	2017-03 Mill Pond Fishery & Habitat Res	250,000.00	57.143														
	Revenue			-	-	249,663.63	24.08							59.28		59.28	249,687.71
	Expense			-	135.86	-	-									-	135.86
	Balance			-	(135.86)	249,663.63	24.08					-		59.28	-	59.28	249,551.85
	2017-04 Rain Garden at Independence	75,000.00	17.143														
	Revenue			-	-	74,899.52	7.22							17.78		17.78	74,906.74
	Expense			-	135.85	-	-									-	135.85
	Balance			-	(135.85)	74,899.52	7.22					-		17.78	-	17.78	74,770.89
	2018-01 Rush Creek Ph 3 Main Stem S	75,000.00	30.000														
	Revenue			-	-	-	74,593.71							247.30		247.30	74,841.01
	Expense			-	-	115.18	-									-	115.18
	Balance			-	-	(115.18)	74,593.71					-		247.30	-	247.30	74,725.83
	2018-03 Elm Creek Phase III Stream Re	100,000.00	40.000														
	Revenue			-	-	-	99,461.35							329.73		329.73	99,791.08
	Expense			-	-	115.18	-									-	115.18
	Balance			-	-	(115.18)	99,461.35					-		329.73	-	329.73	99,675.90
	2018-04 Downs Road Trail Rain Garder	75,000.00	30.000														
	Revenue			-	-	-	74,593.71							247.30		247.30	74,841.01
	Expense			-	-	115.18	-									-	115.18
	Balance			-	-	(115.18)	74,593.71					-		247.30	-	247.30	74,725.83

**Elm Creek Watershed Management Commission
2020 Treasurer's Report - Capital Improvement Project Tracking**

item 02b

CIPs		Amount	%age	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	JAN 2020	FEB 2020	MAR 2020	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	TOTAL 2020	TOTAL ALL YEARS
	2019-01 Rush Creek Main Stem Ph 3	26,513.00	8.983														
	Revenue			-	-	-	-							13,841.42		13,841.42	13,841.42
	Expense			-	-	-	102.77									-	102.77
	Balance			-	-	-	(102.77)					-		13,841.42	-	13,841.42	13,738.65
	2019-04 Hickory Drive Stormwater Impr	81,471.00	27.604														
	Revenue			-	-	-	-							42,533.51		42,533.51	42,533.51
	Expense			-	-	-	102.78									-	102.78
	Balance			-	-	-	(102.78)					-		42,533.51		42,533.51	42,430.73
	2019-05 Downtown Regional Stormwater	28,079.00	9.514														
	Revenue			-	-	-	-							14,659.60		14,659.60	14,659.60
	Expense			-	-	-	102.77									-	102.77
	Balance			-	-	-	(102.77)					-		14,659.60		14,659.60	14,556.83
	2019-06 Elm Creek Restore Ph IV	159,075.00	53.899														
	Revenue			-	-	-	-							83,050.04		83,050.04	83,050.04
	Expense			-	-	-	102.78									-	102.78
	Balance			-	-	-	(102.78)					-		83,050.04		83,050.04	82,947.26
	TOTAL CIP																
	Revenue			249,795.17	494,329.63	436,392.95	458,031.53	-	-	-	-	-	-	155,012.64	-	155,012.64	1,925,132.05
	Expense			812.59	407.56	570.54	411.10	-	-	-	-	-	-	-	-	-	8,429.57
	Payments			245,276.36	1,836.48	322,859.09	352,173.28	-	-	-	-	-	-	-	-	-	922,145.21
	Balance			3,706.22	492,085.59	111,741.60	105,224.02	-	-	-	-	-	-	155,012.64	-	155,012.64	993,112.42
	CLOSED PROJECT FUND																
	2014-02 Champlin Mill Pond Dam					82.31											82.31
	2015-01 Plymouth Elm Creek Restoration					1,139.41											1,139.41
	2014-01 Medina Tower Drive						120.35										120.35
	Balance Closed Project Fund																1,342.07
	TOTAL CIP & Closed Project Fund																994,454.49
	COMPLETED PROJECTS \$0 BALANCE																
	2016-02 Miss River Shore Repair/Stabilization					COMPLETE											
	2016-03 EC Dam at Mill Pond					COMPLETE											
	2016-04 Rush Creek Main Stem Restoration					COMPLETE											
	2018-02 Elm Creek Reach D Stream Restoration					COMPLETE											



Account Number:
481113-238425

item 02b

ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: Jul 17, 2020

Previous Balance	\$31.69
Payments - Thank You!	\$31.69
Balance Forward	\$0.00
New Charges	\$32.83
Total Amount Due	\$32.83
Payment must be received on or before August 13, 2020	

Total Amount Due

\$32.83

Due Date

August 13, 2020

Message Center

Up to \$2K rebate on EV chargers

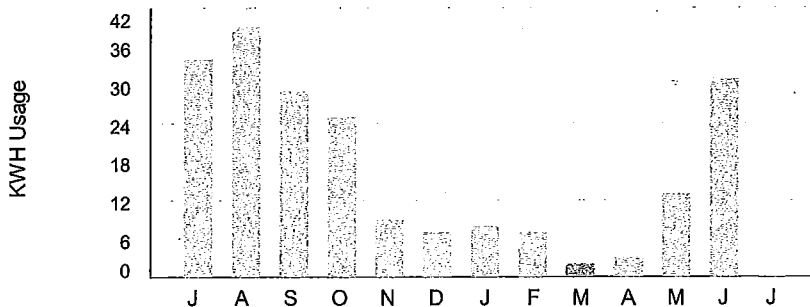
More and more electric vehicles can be seen in workplace parking lots. If you install Level 2 EV chargers at your place of business, you'll receive up to a \$2,000 rebate from Connexus Energy.

Get all the details at connexusenergy.com under Business Rebates.

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-007529/007334 AGYGH0 S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$32.83

Payment Due By

August 13, 2020

007529 1 AB 0.416 003529/007529/007334 027 02 AGYGH0
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy
PO Box 1808
Minneapolis, MN 55480-1808

00003283 0004811130238425 000000 00000 000000000000 00000008



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

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

July 20, 2020

Invoice No: 23271759.00 - 8

Total this Invoice	\$2,693.00
---------------------------	-------------------

Regarding: Elm Creek Floodplain Mapping

This invoice is for professional services, which include the following:

- Summarizing results of re-calibrated hydrology model
- Finalizing hydrology memo to the DNR
- Importing survey data from the DNR into HEC-RAS model

Total Contract Budget	Total Prior Billing	Billing this Invoice	Total Billing to Date	Budget Remaining
\$90,945.00	\$48,206.50	\$2,693.00	\$50,899.50	\$40,045.50

Professional Services from June 20, 2020 to June 30, 2020

Job: 100 Meetings

Labor Charges

	Hours	Rate	Amount	
Support Personnel II				
Nypan, Nyssa	.80	95.00	76.00	
	.80		76.00	
Subtotal Labor				76.00
			Job Subtotal	\$76.00

Job: 400 Hydrologic Analysis

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	.90	110.00	99.00	
Vecchi, Anthony	20.70	100.00	2,070.00	
	21.60		2,169.00	
Subtotal Labor				2,169.00
			Job Subtotal	\$2,169.00

Job: 500 Hydraulic Modeling - Detailed Studies

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	.80	110.00	88.00	
Engineer / Scientist / Specialist I				
Beck, Samantha	4.00	90.00	360.00	
	4.80		448.00	
Subtotal Labor				448.00
		Job Subtotal		\$448.00
		Total this Invoice		\$2,693.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,693.00	48,206.50	50,899.50	48,206.50	2,693.00

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact Heather Hlavaty, your Barr project manager at 952.842.3613 or email at hhlavaty@barr.com.



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

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

July 29, 2020

Invoice No: 23271759.00 - 9

Total this Invoice	\$7,347.50
---------------------------	-------------------

Regarding: Elm Creek Floodplain Mapping

This invoice is for professional services, which include the following:

- Summarizing results of re-calibrated hydrology model
- Finalizing hydrology memo to the DNR
- Importing survey data from the DNR into HEC-RAS model

Total Contract Budget	Total Prior Billing	Billing this Invoice	Total Billing to Date	Budget Remaining
\$90,945.00	\$48,206.50	\$7,347.50	\$55,554.00	\$35,391.00

Professional Services from July 1, 2020 to July 24, 2020

Job: 100 Meetings

Labor Charges

	Hours	Rate	Amount
Principal			
Campeau, Nathan	.60	170.00	102.00
Support Personnel II			
Nypan, Nyssa	.50	95.00	47.50
	1.10		149.50
Subtotal Labor			149.50
Job Subtotal			\$149.50

Job: 400 Hydrologic Analysis

Labor Charges

	Hours	Rate	Amount
Principal			
Campeau, Nathan	.50	170.00	85.00
Engineer / Scientist / Specialist II			
Hlavaty, Heather	5.30	110.00	583.00
Vecchi, Anthony	48.50	100.00	4,850.00
Engineer / Scientist / Specialist I			
Anderson, Edward	5.90	90.00	531.00
	60.20		6,049.00
Subtotal Labor			6,049.00

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

			Job Subtotal	\$6,049.00
Job:	500	Hydraulic Modeling - Detailed Studies		
Labor Charges				
		Hours	Rate	Amount
Engineer / Scientist / Specialist IV				
Waln, Joseph		.20	155.00	31.00
Engineer / Scientist / Specialist III				
Frias, Christian		.60	140.00	84.00
Engineer / Scientist / Specialist II				
Hlavaty, Heather		1.30	110.00	143.00
Engineer / Scientist / Specialist I				
Beck, Samantha		9.90	90.00	891.00
		12.00		1,149.00
Subtotal Labor				1,149.00
			Job Subtotal	\$1,149.00
			Total this Invoice	\$7,347.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	7,347.50	50,899.50	58,247.00	48,206.50	10,040.50
Outstanding Invoices					
Invoice	Date	Balance			
8	7/20/2020	2,693.00			
Total		2,693.00			

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact Heather Hlavaty, your Barr project manager at 952.842.3613 or email at hhlavaty@barr.com.



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

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

July 30, 2020

Invoice No: 23270F55.20 - 6

Total this Invoice	\$11,791.50
---------------------------	--------------------

Regarding: Review of development permits for compliance with the Elm Creek Watershed Management Plan

This invoice is for professional services, which include the following:

Job 100 - Technical Services

- Meetings
 - Preparing for meetings
 - Attending TAC and WMC meetings
 - Updating staff report
- Pre-Project Review
 - Communicating with potential permit applicants regarding the following projects:
 - Medina floodplain information request
 - Gleason Fields artificial turf hydrology
 - Corcoran culvert
 - Kariniemi Addition
 - Chippewa BFE
 - Tavera Comp plan amendment
- Wetland Issues
 - Responding to TEP meeting coordination emails
- General administrative tasks
 - Tracking fees and review spending for TAC discussions
 - Coordinating with administrator

Job 200 – Other Assistance

- MTDs
 - Preparing for meeting
 - Attending meeting organized by MPCA

Job 300 – Project Reviews

- Reviewing the following projects for compliance with stormwater and erosion control rules:
 - 2020-008 Lone Gardens, Dayton
 - 2020-010 Birchwood, Rogers
 - 2020-011 Bellwether 4th Addition, Corcoran
 - 2020-013 Territorial Greens West, Maple Grove
 - 2020-014 Territorial Greens East, Maple Grove
 - 2020-015 Interchange Business Center, Dayton
 - 2020-016 Lennar Territorial Rd Development (Skye Meadows), Rogers
 - 2020-017 Meadow View Town Homes, Medina
 - 2020-018 DNR MN Health Village St Wetlands, Maple Grove
 - 2020-019 Sundance Greens 4th Addition, Dayton
 - 2020-020 Crow Hassan Riverbank Stabilization, Rogers
 - 2020-021 Industrial Blvd Extension, Rogers
 - 2020-022 Elm Road, Maple Grove
 - 2020-023 Ziegler Site Upgrades, Dayton
 - 2020-024 Paul Alti Culvert Replacement, Corcoran

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Professional Services from June 20, 2020 to July 24, 2020

Job: 100 Technical Services

Task: 010 Meetings

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	6.00	200.00	1,200.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	7.00	155.00	1,085.00	
	13.00		2,285.00	
Subtotal Labor				2,285.00

Subconsultant Charges

Subconsultants			605.00	
Subtotal Subconsultant				605.00
Task Subtotal				\$2,890.00

Task: 020 Pre-Project Review

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.90	155.00	139.50	
	.90		139.50	
Subtotal Labor				139.50

Subconsultant Charges

Subconsultants			302.50	
Subtotal Subconsultant				302.50
Task Subtotal				\$442.00

Task: 030 Wetland Issues

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.20	155.00	31.00	
	.20		31.00	
Subtotal Labor				31.00
Task Subtotal				\$31.00

Task: 040 General

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	3.00	200.00	600.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.30	155.00	201.50	
Support Personnel II				
Nypan, Nyssa	.80	95.00	76.00	
	5.10		877.50	
Subtotal Labor				877.50

Subconsultant Charges

Subconsultants	330.00	
Subtotal Subconsultant		330.00
Task Subtotal		\$1,207.50
Job Subtotal		\$4,570.50

Job: 200 Other Assistance

Task: 001 MTDs

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	2.50	200.00	500.00	
Engineer / Scientist / Specialist II				
Phillips, Josh	.80	105.00	84.00	
	3.30		584.00	
Subtotal Labor				584.00
Task Subtotal				\$584.00
Job Subtotal				\$584.00

Job: 300 Project Reviews

Task: 2008 2020-008 Ione Gardens

Subconsultant Charges

Subconsultants	27.50	
Subtotal Subconsultant		27.50
Task Subtotal		\$27.50

Task: 2010 2020-010 Birchwood

Subconsultant Charges

Subconsultants	110.00	
Subtotal Subconsultant		110.00
Task Subtotal		\$110.00

Task: 2011 2020-011 Bellwether 4th Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.50	155.00	77.50	
	.50		77.50	
Subtotal Labor				77.50
Task Subtotal				\$77.50

Task: 2013 2020-013 Territorial Greens West

Subconsultant Charges

Subconsultants	412.50	
Subtotal Subconsultant		412.50
Task Subtotal		\$412.50

Task: 2014 2020-014 Territorial Greens East

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.10	155.00	15.50	
	.10		15.50	
Subtotal Labor				15.50

Subconsultant Charges

Subconsultants	27.50	
Subtotal Subconsultant		27.50
Task Subtotal		\$43.00

Task: 2015 2020-015 Dayton Interchange Business Center

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.60	155.00	93.00	
	.60		93.00	
Subtotal Labor				93.00

Subconsultant Charges

Subconsultants	27.50	
Subtotal Subconsultant		27.50
Task Subtotal		\$120.50

Task: 2016 2020-016 Lennar Territorial Rd Development

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	3.50	155.00	542.50	
	3.50		542.50	
Subtotal Labor				542.50

Subconsultant Charges

Subconsultants	27.50	
Subtotal Subconsultant		27.50
Task Subtotal		\$570.00

Task: 2017 2020-017 Meadow View Townhomes

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.50	155.00	387.50	
	2.50		387.50	
Subtotal Labor				387.50

Subconsultant Charges

Subconsultants			55.00	
Subtotal Subconsultant				55.00
				Task Subtotal
				\$442.50

Task: 2019 2020-019 Sundance Greens 4th Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.70	155.00	418.50	
	2.70		418.50	
Subtotal Labor				418.50

Subconsultant Charges

Subconsultants			495.00	
Subtotal Subconsultant				495.00
				Task Subtotal
				\$913.50

Task: 2020 2020-020 Crow-Hassen Riverbank Stabilization

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.30	155.00	46.50	
	.30		46.50	
Subtotal Labor				46.50

Subconsultant Charges

Subconsultants			330.00	
Subtotal Subconsultant				330.00
				Task Subtotal
				\$376.50

Task: 2021 2020-021 Industrial Boulevard Extension

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.60	155.00	248.00	
	1.60		248.00	
Subtotal Labor				248.00

Subconsultant Charges

Subconsultants			990.00	
Subtotal Subconsultant				990.00

			Task Subtotal	\$1,238.00
Task:	2022	2020-022 Elm Road Street & Utility Project		
Labor Charges				
		Hours	Rate	Amount
Engineer / Scientist / Specialist IV				
Waln, Joseph		1.70	155.00	263.50
		1.70		263.50
Subtotal Labor				263.50
Subconsultant Charges				
Subconsultants				852.50
Subtotal Subconsultant				852.50
			Task Subtotal	\$1,116.00

Task:	2023	2020-023 Ziegler Dayton Site Upgrades		
Labor Charges				
		Hours	Rate	Amount
Engineer / Scientist / Specialist IV				
Waln, Joseph		.20	155.00	31.00
		.20		31.00
Subtotal Labor				31.00
Subconsultant Charges				
Subconsultants				1,127.50
Subtotal Subconsultant				1,127.50
Task Subtotal				\$1,158.50

Task:	2024	2020-024 Walti Culvert Exchange		
Labor Charges				
		Hours	Rate	Amount
Engineer / Scientist / Specialist IV				
Waln, Joseph		.20	155.00	31.00
		.20		31.00
Subtotal Labor				31.00
			Task Subtotal	\$31.00
			Job Subtotal	\$6,637.00
			Total this Invoice	\$11,791.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	11,791.50	68,782.00	80,573.50	68,782.00	11,791.50

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.

Johnson & Company, Ltd.
3255 Fernbrook Lane North
Minneapolis, MN 55447
(952) 525-9500

ELM CREEK WATERSHED MANAGEMENT COMMISSION
3235 FERNBROOK LANE N
PLYMOUTH, MN 55447

Client # : 4274

Invoice Number : 42211

Invoice Date : Wednesday, July 15, 2020

For Professional Services Rendered :

Preparation of report on audited financial statements for the year ended December 31, 2019.	7,500.00
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Less: 2019 discount	(1,500.00)
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Total Invoice Amount	<u>\$6,000.00</u>
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DI-1040

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

Page:1

Make Remittance Payable To: U.S. Geological Survey
Billing Contact: Angie Hughes, amhughes@usgs.gov

Phone: 651-280-5735

Bill #: 90825989
Customer: 6000001534
Date: 07/09/2020
Due Date: 09/07/2020

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

Payer: Elm Creek Conservation Mgmt. & PC
Judie Anderson
3235 Fernbrook Lane
Plymouth MN 55447

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

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

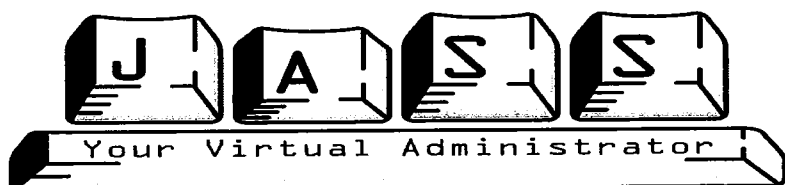
Checks must be made payable to
U.S. Geological Survey. Please detach the top portion
or include bill number on all remittances.

Amount of Payment: \$ _____

Date	Description	Qty	Unit Price		Amount
			Cost	Per	
07/09/2020	Billing for the operation and maintenance of a gaging station and water-quality sampling on Elm Creek near Champlin. 20NKJFA209	1	15,705.00	1	15,705.00
Amount Due this Bill:					15,705.00

Accounting Classification:
Sales Order: 91057
Sales Office: GENK
Customer: 6000001534
Accounting #: 11097993

TIN: *****6985



3235 Fernbrook Lane
Plymouth MN 55447

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

4-Aug-20

Total by
Project Area

Administrative	2.25	60.00	135.00	
Administrative	36.17	65.00	2,351.05	
Admin - virtual	1.17	70.00	81.90	
Office Support	12.00	200.00	2,400.00	
Storage Unit	1.00	134.42	134.42	
Data Processing/File Mgmt	3.41	60.00	204.60	
File Management		60.00	0.00	
Archiving		60.00	0.00	
Admin - Reimbursable Expense	217.37	1.00	217.37	5,524.340
Admin - TAC support		60.00	0.00	
Admin - TAC support	7.93	65.00	515.45	
Admin - TAC support virtual	2.78	70.00	194.60	
TAC Support - Reimbursable Expense	12.66	1.00	12.66	722.710
Website	5.67	60.00	340.20	
Website	9.47	65.00	615.55	
Web Domain, hosting		1.00	0.00	955.750
Project Reviews - Secre		60.00	0.00	
Project Reviews - Admin	14.85	65.00	965.25	
Project Reviews - Admin offiste		70.00	0.00	
Project Reviews - Admin - File Mgmt		55.00	0.00	
Project Reviews - Reimbursable Expense	182.97	1.00	182.97	1,148.220
Education - Secretarial		60.00	0.00	
Education - Admin		65.00	0.00	
Education - Admin virtual - Blue Thumb Partner Event	0.50	70.00	35.00	
Education - Reimbursable Expense		1.00	0.00	35.000
Plan Amendment - Secre		60.00	0.00	
Plan Amendment - Admin	1.75	65.00	113.75	
Plan Amendment - Offiste		70.00	0.00	
Plan amendment - reimbursable		1.00	0.00	113.750

Invoice Total

8,499.770

Legal Notice
NOTICE OF PUBLIC HEARING
ELM CREEK WATERSHED MANAGEMENT COMMISSION

TO WHOM IT MAY CONCERN:

Notice is hereby given that the Elm Creek Watershed Management Commission (ECWMC) will meet virtually on Wednesday, September 9, 2020, at approximately 11:30 a.m., or as soon thereafter as the matter may be heard, for a public hearing on the following improvements:

Project 2020-01: Livestock Exclusions, Buffers, Stabilizations

Location: Rush Creek Watershed in the cities of Corcoran and Rogers.

Description: Reduce sediment, bacterial, nutrient, and other pollutant loads into Rush Creek.

Cost: Estimated project cost will exceed \$53,025, borne by the cities of Corcoran and Rogers and local residents. The ECWMC proposes to fund \$53,025 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

Project 2020-02: Agricultural Best Management Practices Cost-Share

Location: Private lands in the Rush Creek Watershed in the cities of Corcoran and Rogers.

Description: Series of projects primarily in the North Fork of Rush Creek such as grassed waterways, drainage management, manure storage, etc.

Cost: Estimated project cost will exceed \$53,025, borne by the cities of Corcoran and Rogers and local residents. The ECWMC proposes to fund \$53,025 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

Project 2020-03: Enhanced Street Sweeper

Location: City of Plymouth

Description: Purchase of high-efficiency street sweeper to improve street sweeping efficiency and reduce pollutant load to Elm Creek.

Cost: Estimated project cost is \$350,000, borne by the City of Plymouth. The ECWMC proposes to fund \$79,538 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

The Commission proposes to proceed under the authority granted by MN Statutes, Sec. 103B.251 to certify its share of the project cost to Hennepin County for payment by a tax levy on all taxable property located within the Elm Creek watershed. The watershed includes all or portions of the cities of Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth, and Rogers. Maps of the watershed are available at the respective city halls or at www.elmcreekwatershed.org.

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. If your computer is not equipped with audio capability, 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; or +1 301 715 8592 US. Meetings are open to the public via these instructions.

Persons who desire to be heard with reference to the proposed improvements will be heard at this meeting. Written comments may be submitted to Doug Baines, c/o JASS, 3235 Fernbrook Lane, Plymouth, MN 55447, or emailed to judie@jass.biz. Auxiliary aids for persons with handicaps are available upon request at least 7 days in advance. Please contact Judie Anderson at 763-553-1144 to make arrangements.

/s/ Doug Baines, Chair

By order of the Elm Creek Watershed Management Commission

#

elm creek

Watershed Management Commission

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

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
email: jherbert@barr.com

STAFF REPORT

August 5, 2020

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. On October 30, 2018, an appeal of the restoration order was received by BWSR. *BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers*

The City of Corcoran assumed WCA LGU responsibilities from the Commission for this project on March 1, 2019. After numerous meetings, it appears that a resolution between the LGU and Mayers is not forthcoming. *At the request of the LGU, this appeal will move forward at the BWSR office. If BWSR staff determine the appeal is valid, it will go to an appeals board (BWSR staff) for a hearing and determination of the case. If the appeal is not valid, it will be dismissed and the restoration order with its enforcement provisions will be in effect.*

b. 2018-020 North 101 Storage, Rogers. This is an existing 3-acre lot in the northwest corner of Highway 101 and CR144. The current land use is a combination of mini-storage units and outdoor storage. The site is proposed for complete demolition and construction of seven new mini-storage buildings. At their July meeting the Commission approved Staff findings dated July 9, 2018, pending four items relating to abstraction requirements and the infiltration system. The applicant requested and was granted an extension to December 31, 2020, provided the review process with the City of Rogers does not expire. *No updates this month.*

c. 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 meeting. Conditions of approval were to submit a SWPPP plan meeting requirements, clarify maintenance responsibilities for the iron enhanced sand filter, and 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. *No updates this month.*

d. 2019-024 Boston Scientific Weaver Lake Road, Building 2 East Addition, Maple Grove. Boston Scientific is building an addition on the east side of Building 2 to provide more production and office space for their existing facility. The project includes moving the existing service drive and site utilities on the east side of Building 2 to the east within the BS property to create space for the addition. About 1.9 acres of the site will be disturbed and 1.06 acres of impervious surface will be added. This project was being reviewed for compliance to Rules D, E, F, and I. Based on Staff findings dated September 11, 2019, at their September 11, 2019 meeting the Commission approved the project contingent upon: (1) a site plan providing the irrigation

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areas to be irrigated by the new system and (2) an operation and maintenance plan for the irrigation system approved by the City and the Commission and recorded on the land title. The applicant and their engineer are pursuing overall stormwater management alternatives for this and potential future projects. Updates will be provided to the Commission when the applicant resolves how they would like to proceed. The applicant's agent stated this project is on hold until 2021 due to COVID19 issues. At this time they are proceeding with the overall stormwater management plans and hope to provide them to Staff in the near future.

e. 2020-001 Outlot L, Markets at Rush Creek, Maple Grove. Outlot L is a 1.55-acre lot located in The Markets at Rush Creek (Hy-Vee South) PUD development. This project is located just west of the Hy-Vee gas station and south of CR10. A 12,000 SF multi-tenant building and associated parking is proposed for this site. Stormwater management for this lot is part of the regional stormwater system approved by the Commission for project 2016-002. Commission rules require compliance with Rules D and E. On January 23, 2020, Staff administratively approved this project contingent upon receipt of a dated and signed set of final development stage plans. *This information has not been received to date.*

f. 2020-002 Project 100, Maple Grove, renamed *Minnesota Health Village (MHV)*. Ryan Companies is proposing to develop 100.6 acres of agricultural land into a mixed-use development consisting of office, medical, hospital, multi-family residential and senior living facilities. This site is situated between I-610 to the north, I-94 to the west and the Maple Grove Hospital to the east. The applicant is looking for approval of a regional stormwater management system to address the Commission's present-day requirements throughout the timeline for all the phases of this development. Additionally, they are requesting grading and erosion control approvals for Phase I of the development.

Phase I site plans consists of mass grading of approximately 35 acres in the southeast portion of the site to accommodate street and utilities, 383 parking stalls for the existing hospital and future building in this area. The Commission reviewed the concept plan for compliance with Rule D. In addition, it reviewed Phase I for compliance with Rules D, E, G and I. At their March 2020 meeting the Commission approved this project contingent upon the following conditions: Phase I site plans: (1) Feasibility to infiltrate stormwater in the filter bench areas of ponds 1 and 2 must be determined. If infiltration is considered feasible, design revisions and compliance with MPCA infiltration design criteria is required and (2) City, MN WCA, and Commission compliance on any wetland impacts must be adhered to. *These two items remain outstanding.*

Concept Site Plans: The overall stormwater management concept plan design meets the Commission's standards provided. (1) Feasibility to infiltrate stormwater in the future filter bench areas and biofiltration basins is determined. If infiltration is considered feasible, design revisions and compliance with MPCA infiltration design criteria is required. (2) Commission Project review and approval are required when future site development triggers a review. These two items are considered on-going and will come forward as this site develops. No other information is necessary at this time.

For Phase I and the Concept Plans: The Commission recommends the management of stormwater runoff to minimize the impacts of the application of chloride compounds on water resources by minimizing their use on roads, parking lots, sidewalks and other impervious surfaces. Toward that end, the Commission requests that existing and future landowners develop and implement a chloride management plan on all private parking and walking areas within this project to minimize chloride runoff into surface water on site. The primary element of such a plan is implementation and application of salt to these surfaces by an applicator with MPCA Level 1 Certification in Snow & Ice Control Best Practices.

Note: The City of Maple Grove is looking at the feasibility to consolidate as many of the regional ponds for this site as possible while continuing to meet the regulations and goals of the approved plans. Commission staff will work with the City to ensure the Commission's requirements and approvals are compliant with any changes. This will be on-going as the site develops. *No new information was received in July for this project.*

g. 2020-008 Lone Gardens, Dayton. This project is located at the northwest intersection of CSAH 144 (Diamond Lake North) and 12 (Dayton River Road). The site is 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 will be for compliance with Rules D, E, G, and I. Initial findings with no recommendations were provided in the April packet. *The applicant requested and was granted an extension to September 6, 2020. No new information has been provided as of this update.*

h. 2020-013 Territorial Greens West, Maple Grove. *This is a 15.19-acre parcel located at the northwest corner of the intersection of CSAH 81 and Territorial Road. The site is proposed to be converted from an open grass/woodland/wetland/golf driving range area into a 208-unit apartment building and 13 townhomes. Grading and construction will disturb 12.7 acres and add 5.0 acres of new impervious areas. The project triggers Rules D, E, G, and I of the Commissions Stormwater Management Plan. Project review and findings are included in this month's packet. Staff recommends approval contingent upon final wetland approvals.*

i. 2020-014 Territorial Greens East, Maple Grove. This is a 13.2-acre site located at the southerly terminus of Territorial Road. CR 81 and I-610 are to the south and the Elm Creek Park Reserve borders it to the north and east. Seventy-three (73) single-family townhomes creating 5.6 acres of new impervious area are proposed on the site. *The project triggers Rules D, E, and G from the Commissions Stormwater Management Plan. Project review and findings are in this month's packet. Staff recommends approval contingent upon final wetland approvals.*

j. 2020-015 Dayton Interchange Business Center, Dayton. Scannell Properties is proposing to develop a 12-acre parcel of agricultural land into a 124,000 SF office/warehouse building with related infrastructure, creating 6.2 acres of new impervious area. This site is located west of CR 81 and north of Territorial Road near Holly Lane. The site plan triggers a Commission review for conformance Rules D, E, G and I. No recommendations are provided to the Commission at this time. *The project review deadline was extended by Commission Staff to September 12, 2020.*

k. 2020-016 Skye Meadows, Rogers. Lennar Corporation is proposing to construct a residential development on 130 acres along Territorial Road. This site consists of six separate parcels located both north and south of Territorial Road (CR116) just west of Tilton Trail. There are 363 single-family residential units proposed, creating 38.73 acres of new impervious areas in seven phases. The Commission's review will be for conformance to Rules D, E, F, G, and I for all seven phases. Staff will review compliance for erosion and sediment controls for Phase 1 and 2 (initial grading proposed). Future site development must be reviewed for compliance to the approvals on this project plus future erosion and sediment controls. No recommendations are provided to the Commission at this time. *The project review deadline was extended by Commission Staff to September 11, 2020.*

l. 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 on May 29, 2020. The plans call for 7.64 acres of new impervious areas. The Commission's review will be for conformance to Rules D, E, F, G, and I.

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Initial findings provide no recommendations to the Commission. *The project review deadline was extended by Commission Staff to September 11, 2020.*

m. 2020-020 Crow Hassan Streambank Stabilization, Rogers. Three Rivers Park District is proposing to stabilize 175 feet of streambank along the Crow River and provide a permanent stairway access to the river to prevent future erosion. The project is located within their dog park east of CR 116 at the Hennepin/Wright County boundary. The project triggers the Commission's Rules E and F. *At the July 2020 meeting of the Commission this project was approved per Staff's findings dated June 30, 2020. This item will be removed from the report.*

n. 2020-021 Industrial Blvd Extension, Rogers. *The City of Rogers is proposing to construct an extension to Industrial Boulevard. This will connect the road to CSAH 144 from the intersection with Edgewater Parkway. The City is also proposing to add turn lanes to accommodate access from CSAH 144 to the new Industrial Blvd. connection and replace the existing box culvert under CSAH 144 located ~1,000 feet west of the new intersection with the county road. This project will disturb 3.5 acres and increase impervious area by 2.2 acres. It triggers the Commission's Rules D, E and F. Project review and findings are in this month's packet. Staff recommends approval without conditions.*

o. 2020-022 Elm Road Street and Utility Project, Maple Grove. *This project encompasses the street and utility work for the Elm Road Development and street improvements for Elm Road between Vicksburg and Lawndale Lanes. The Commission approved the site plans and street and utility work for the Elm Road Development under project 2020-004. Elm Road construction from Vicksburg to Comstock Lane (stations 159+92-133+00) was part of 2020-004 approvals. This project review covers the Elm Road street and storm sewer work proposed by the City of Maple Grove between Comstock and Lawndale Lanes (Stations 133+00-100+85). It triggers Commission rules D, E, F, G and H.. Project review and findings are in this month's packet. Staff recommends approval contingent upon the DNR permitting of the new Elm Creek culverts and an accounting of the net decrease in floodplain storage.*

p. 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. It triggers Commission rules D, E, G and I. Project review and findings are in this month's packet. Staff recommends approval contingent upon wetland permitting being obtained and an Operation & Maintenance agreement per the Commission's standards is recorded on the land title.*

q. 2020-024 Paul Walti Culvert Replacement, Corcoran. *This is an existing driveway culvert on the North Branch of Rush Creek at 10420 Cain Road. An in-kind culvert replacement is proposed. This project triggers the Commission's Rule H. A DNR protected waters crossing permit is also required. Staff is currently working with Walti to ensure the replacement is in-kind.*

r. 2020-025 Paulsen Farms, Corcoran. *This is an 88-acre parcel located south of CR 30 and east of Bechtold Road. Twenty (20) single family rural residential lots with 5.2 acres of new impervious areas are proposed on this site. Rules D, E and I will be reviewed for compliance to the Commission's rules and standards. This project is still under review by Staff. No recommendation is available currently.*

s. 2020-026 2020 Rogers High School Addition and Renovations, Rogers. *This project will disturb 3.35*

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acres and increase impervious coverage by 0.82 acres. A 35,000 square feet building addition is proposed for the north side of the existing school. The applicant proposes to utilize the existing regional infiltration pond constructed in 2002 to accommodate these improvements. This project triggers the Commission's rules D and E and has not been reviewed as of this update. It will come before the Commission at a future meeting.

FINAL RECORDINGS OR OTHER DOCUMENTATION ARE DUE ON THE FOLLOWING PROJECTS: *(Staff last reached out to the cities for updates on these projects on March 4, 2020.)*

ah. 2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. The project is located east of I-94, south of the Cabela development. The total project area is 8.0 acres; proposed impervious surfaces total 5.6 acres. 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.

ai. 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.

aj. 2016-002 The Markets at Rush Creek, Maple Grove. This is a proposal to develop 40 acres of a 123-acre PUD located in the southwest quadrant of the intersection of CSAH 101 and CSAH 10. In 2016 the Commission granted Staff authority to administratively approve the project and report any updates. Updated plans with minor layout revisions were reviewed by Staff and administratively approved on July 24, 2018, contingent upon the Operations Manager requesting a copy of the recorded maintenance agreement. On March 4, 2020, Derek Asche reported that the agreement has been signed but not yet recorded. The City will have the document recorded to satisfy the final condition of this project.

ak. 2016-005W Ravinia Wetland Replacement Plan, Corcoran. In December 2016 the Commission approved Staff's recommendations on this wetland replacement plan. Final wetland impacts are 1.22 acres. Wetland credits created on site will be 4.01 acres. Excess credits of 0.75 acres are proposed to be used on Lennar's Laurel Creek development in Rogers (2017-014). All approval contingencies have been met and construction is completed.. Vegetation planting and management took place throughout 2017. Barr Engineering is providing monitoring to ensure the replacement meets the performance standards of the approved plans. Their first annual report was submitted to the US Army Corps of Engineers on February 7, 2019. Kevin Mattson indicated on October 2, 2019 that no further updates are available.

al. 2016-047 Hy-Vee North Maple Grove. The applicant is proposing to disturb 13 acres of a 20.4-acre site located at the northeast corner of Maple Grove Parkway and 99th Avenue for the purpose of constructing a grocery store, fuel station, convenience store and parking facilities. In findings dated January 10, 2017, Staff recommended approval of this project subject to three conditions. The Commission approved Staff's recommendations at their January 2017 meeting with the additional requirement that the Commission receive and comment on a WCA impact notice. (Also see Project 2019-023 99th Avenue Apartments. That project is part of this PUD and had the same requirements prior to approval.) WCA, Buffer easement protection and updated grading plans were received and approved by the Commission in February 2017. As of this update, the final outstanding item is the operation and maintenance agreement.

am. 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

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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.

an. 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 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 was 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 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).

ao. 2017-039 Rush Creek Apartments, Maple Grove. At their May 13, 2020 meeting the Commission accepted Staff's findings dated April 29, 2020 and approved this project contingent upon: (a) Maintenance access to the stormwater ponds must be provided and (b) The O&M plan for the stormwater management systems (biofiltration basin) must be provided for the Commission's approval. Said plans must be recorded on the property title and a copy of the recorded document must be provided to the Commission. *Item (a) has been resolved.*

ap. 2018-026 Windrose, Maple Grove. The Commission approved Staff's finding and recommendations dated July 20, 2018. Final plan approval is contingent upon verification of the wetland approvals by the City and the approval and recording of the operation and maintenance plan on the filter basins. On February 5, 2019 Derek Asche reported that the City will receive the agreement for the filter basins with the grading permit application.

aq. 2018-028 Tricare Third Addition, Maple Grove In their findings dated August 7, 2018, Staff recommended approval contingent on approval and recordation of the O&M plan on the filter basins. The Commission further recommended that the City consider an oil/debris type of separator in the parking lot manhole. It is a condition of the grading permit that the maintenance agreement is provided. No update was available on July 2, 2019. *The recorded agreement was received in the Commission offices on July 20, 2020. This item will be removed from the report.*

ar. 2018-048 Faithbrook Church, Phase 2, Dayton. This is an application for review of an expansion of an existing church located northeast of the intersection of Fernbrook Lane and Elm Creek Road. The Commission approved this project at their November 2018 meeting 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; it is believed to be due to funding needs of the applicant. It was expected activity would resume in Spring 2019.

as. 2019-001 Fernbrook View Apartments, Maple Grove. This is a 4.85-acre rural residential lot located at the northeast intersection of CSAH 81 and Fernbrook Lane. The applicant proposes to construct a 2-story, 42-unit apartment building. This project was approved at the February 2019 Commission meeting with the following conditions: (1) the applicant pursue utilizing water from the NURP pond for irrigation needs for this property; (2) long term operation and maintenance on the stormwater basin must be addressed; (3) mean average pond depth must meet the Commission standard; (4) pond filter bench details must be provided. With the exception of the O&M plans, these conditions have been met by the applicant. This project was approved by the Commission's technical advisor per the updated project review dated February 5, 2020.

at. 2019-002 Parkside Villas, Champlin. This is two adjacent rural parcels totaling 13.9 acres that are proposed to be split into 56 single-family residential lots. It is located on the east side of Goose Lake Road just south of its intersection with

Elm Road (CR 202). The review is for compliance with Commission Rules D and E. At their February 2019 meeting the Commissioners approved Staff's findings dated January 29, 2019, contingent on (1) a long term O&M agreement on the stormwater basin and irrigation system being provided and recorded on the property title and (2) the applicant working with the City and Three Rivers Park District to safely outlet the pond water below the trail system adjacent to the property line.

au. 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.

av. 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 operation and maintenance plan approved by the City and Commission and recorded on the title for this property. A copy of the recorded document must be provided to the Commission.

aw. 2019-032 OSI Expansion, Medina. This an existing business located in the northwest corner of Highway 55 and Arrowhead Drive. The applicant is proposing to build an addition on the south side of the building and add parking to the north side of the site, creating an additional 3.6 acres of new impervious area. In their findings dated February 4, 2020, Staff recommended approval contingent upon receipt of O& M plans on the stormwater facilities that meet the Commission's requirements. *Dusty Finke reported on March 4, 2020, that recordation of the O&M plans is still pending.*

ax. 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 is 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 of Medina and the Commission. The agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.

BUFFER REVIEW

See Kirsten Barta's August 3, 2020 report.

CONSERVATION PROJECTS.

See Kirsten Barta's August 3, 2020 report.

ELM CREEK FLOODPLAIN MAPPING PROJECT

Heather Hlavaty at Barr Engineering provided the following update for July:

Work conducted over the last month:

1. Re-submission of hydrology model to the MnDNR on 7/28
2. Initial review of the effective FIS HEC-2 model data

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3. Initial review of the CLOMR/LOMR models received from the MnDNR
4. Development of the HEC-RAS hydraulic model preliminary framework

Work that is anticipated to occur over the month:

5. Incorporation of available data from the effective HEC-2 and CLOMR/LOMR data in the HEC-RAS hydraulic model
6. Incorporation of additional cross-sections in non-detailed areas
7. Identification of additional survey needs for hydraulic model

Data/input we are waiting on from others

- Nothing at this time

Budget spent through 7/27/2020: \$ 55,554 (39% remaining)

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HENNEPIN COUNTY

MINNESOTA

DATE: August 3rd, 2020

TO: Elm Creek Watershed Management Organization

FROM: Kirsten Barta, Hennepin County Department of Environment and Energy

RE: August Commission meeting project updates

Buffer

Almost all buffer issues within the watershed have been resolved except for one parcel in Corcoran – the landowner attempted to plant but germination was not successful. Crops have been pulled back, so it's just a matter of re-planting the buffer with permanent vegetation.

Another parcel in Dayton is being looked into by staff the week of 8/3 due to a resident complaint

Project updates

There is a large project taking place west of Jubert Lake in Corcoran that involves multiple components and landowners. Several grassed waterways, a sediment basin, and a water control structure are all in the process of being designed in partnership with the landowners.

A second project in Corcoran is currently under review by the city's WCA consultant to see if it is feasible to move forward.

Exclusion fencing and rotational grazing plan are being developed for a landowner in Corcoran to keep horses/goats out of an ephemeral wetland area during wet seasons. Some pasture improvements/refreshing will also be undertaken in the rest of the pasture.

A manure bunker and drainage project was completed in Rogers – previously water was moving across the property into a wetland where the manure from horses was being stored.

Another project just north of Diamond Lake is taking shape to reduce manure runoff down hill into a wetland that feeds directly into the lake in Dayton.

elm creek

Watershed Management Commission

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Territorial Greens West **Maple Grove, Project #2020-013**

Project Overview: This is a 15.19-acre parcel located at NW corner of the intersection of CSAH 81 and Territorial Road. The site is proposed to be converted from an open grass/woodland/wetland/golf driving range area into a 208-unit apartment building and 13 townhomes. Grading and construction will disturb 12.7 acres and add 5.0 acres of new impervious areas.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- | | | |
|---|--------|------------------------------|
| 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 |
| X | Rule I | Buffer Strips |

Applicant: GB Land LLC, 99 36th St. SW, Montrose, MN 55363. Phone: 612-669-1800.
Email: plymouthcommons@hotmail.com

Agent: Wenck Associates, Attention Jack Ammerman, 7500 Olson Memorial Highway, Suite 300, Golden Valley, MN 55427. Phone: 763-252-6897. Email: jammerman@wenck.com

Exhibits:

- 1) A complete ECWMC application received July 15, 2020.
 - a. ECWMC Request for Review and Approval dated April 28, 2020, received May 8, 2020.
 - b. City of Maple Grove authorization for review, dated May 6, 2020
 - c. Project review fee, \$1,569 for 15.19 acres, residential site development project received May 8, 2020
 - d. Site plan design submittal and approval to proceed from the City of Maple Grove received via email on July 15, 2020.
- 2) Territorial Greens, 13653 Territorial Road Site Plans (22x34) by Wenck Associates dated July 14, 2020.
 - a. Sheet G-001, Cover Sheet
 - b. Sheets G-003 to G-005, Existing Conditions, Tree Survey and Tree Survey List
 - c. Sheets C-001 to C-003, Removals Plan
 - d. Sheets C-101 to C-103 Site Plans
 - e. Sheets C201 to C-206, Erosion Control Plans.

- f. Sheets C301 to C-303, Grading Plans
 - g. Sheets C-401 to C-403, Utility Plans
 - h. Sheets C-501 to C-503, Storm Sewer Plans
 - i. Sheets C-601 to C-603 Paving Plans.
 - j. Sheets C-807 and C-808, Details
 - k. Sheets L-101 and L-102, Landscape Plan, Notes and Details.
- 3) Stormwater Management Plan for Territorial Greens by Wenck Associates dated July 14, 2020. Including Narrative, NOAA Atlas 14 information, existing and proposed drainage maps, Existing and Proposed HydroCAD reports, geotechnical report by Haugo GeoTechnical Services dated September 5, 2018, P8 existing and proposed conditions.
 - 4) Correspondence to the City of Maple Grove from Wenck dated July 14, 2020 regarding response to Territorial Greens West Water Resources Comments.
 - 5) WCA notice of application for no-loss decision received July 31, 2020.

Findings:

General

- 1) A complete application was received July 15, 2020. The initial decision period deadline per MN Statute 15.99 is September 13, 2020.
- 2) This site drains into a small unnamed stream in the middle of the parcel. The stream drains south under the 610/CR 81 corridor where it flows into the ditch between the railroad and east bound CR 81. The ditch flows east for approximately 1,700 feet before it enters Elm Creek.
- 3) Proposed drainage remains essentially the same.
- 4) There are no FEMA or MN DNR floodplains, or steam crossing within this site area.
- 5) The steam that flows through the site is identified as ECP-101 in the Maple Grove Stormwater Management Plan (SWMP). The SWMP stream is modeled to have a watershed area of 702 acres and a 100-year BFE elevation of 895.7 through this property.
- 6) Proposed townhomes and apartment low floor elevations are 2.0' or more above stream and storm pond high water elevations and 1.0' or more above emergency overflow elevations.
- 7) Two wetland basins were delineated on this property near Territorial Road. These are in addition to the stream and its wetland corridor (see item 5). An application to consider the two isolated wetland basins near Territorial Road incidental has been received.
 - a. The City of Maple Grove is the LGU in charge of administering the wetland requirements on this project.
- 8) The City of Maple Grove maintain the stormwater facilities in new developments with public infrastructure.
- 9) The project triggers Rules D, E, G, and I of the Commission's Rules and Standards.

Rule D – Stormwater Management

- 1) One wet detention pond with a filtration bench is proposed for stormwater management on this site. The drainage area for the pond will be 10.88 acres.

Abstraction controls will meet the Commission's requirements.

- 1) New impervious areas will be 5.0 acres requiring 19,941 cubic feet (0.46-acre feet) of abstraction.
- 2) The filtration basin will have the capacity for 19,963 cubic feet (0.46-acre feet) of drawdown volume.
 - a. 19,963 cubic feet filtration volume is based on storage between the top of the sand filter (894.0) to the overflow weir in the outlet control structure to the pond (895.0)
 - b. Actual drawdown times for 19,963 cubic feet stored in the basin will be 48 hours.
- 3) Filtration in lieu of infiltration is proposed on-site for abstraction.
 - a. Soil borings show high clay content (CL soil classification) in the vicinity of the wet detention pond.
- 4) Filter basin pre-treatment of sediment is accomplished by routing all the street and impervious surface water into the wet-detention pond before it enters the filter bench.

Water Quality Controls will meet the Commission's requirements.

- 1) Pre- vs post-development total phosphorus (TP) and total suspended solids (TSS) loads were modeled using the P8 model. Modeling results are as follows.

Stormwater Summary

Condition (16.9 ac.)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Abstraction thru Filtration (cu. ft.) ⁽¹⁾	Annual Volume (ac. ft.)
Pre-development (baseline)	6.2	1674	N/A	8.7
Post-development without BMPs	15.6	4,527	19,941	19.7
Post-development with BMPs	6.2	910	19,963	19.7
Net Change	0	-764	+22	+11.0

(1) 5.0 acres new impervious

Rate Controls will meet the Commission's requirements.

- 1) Summery information below will be the total peak flows from this site before and after development.

Rate Control Summary

(16.9 Acres)	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rates	22.8	45.3	96.4
Post-Development Rates	14.5	36.3	74.8

Rule E - Erosion and Sediment Control

- 1) Plans meet the Commission's requirements.
- 2) Grading and erosion control plans address pre-, interim- and post-construction erosion controls.
- 3) MPCA NPDES stormwater permit must be obtained prior to grading work.

Rule I - Buffer Strips Rule

- 1) Wetlands and watercourses on site must provide an average 25' and minimum of a 10' upland buffer per ECWMC requirements.
- 2) If the two wetland basins near Territorial Road are considered incidental, filling them will be allowed without requiring a replacement plan or buffer strip. If they are not considered incidental, replacement and buffer strip plans per the Commission rules and standards will be required.
- 3) The applicant proposes a 40' buffer width along the stream corridor wetlands.
 - a. Stream corridor wetland and watercourse buffers will meet the Commission requirements
 - b. If the no-loss application for the two basins near Territorial Road is approved by the LGU, no additional buffers will be required.

Recommendation to the Elm Creek Commissioners.

Approval contingent upon:

- 1) Prior to impacting any wetlands on site, the City of Maple Grove, Army Corps of Engineers (if applicable) and MN WCA requirements must be met and approved by the LGU and appropriate agencies.

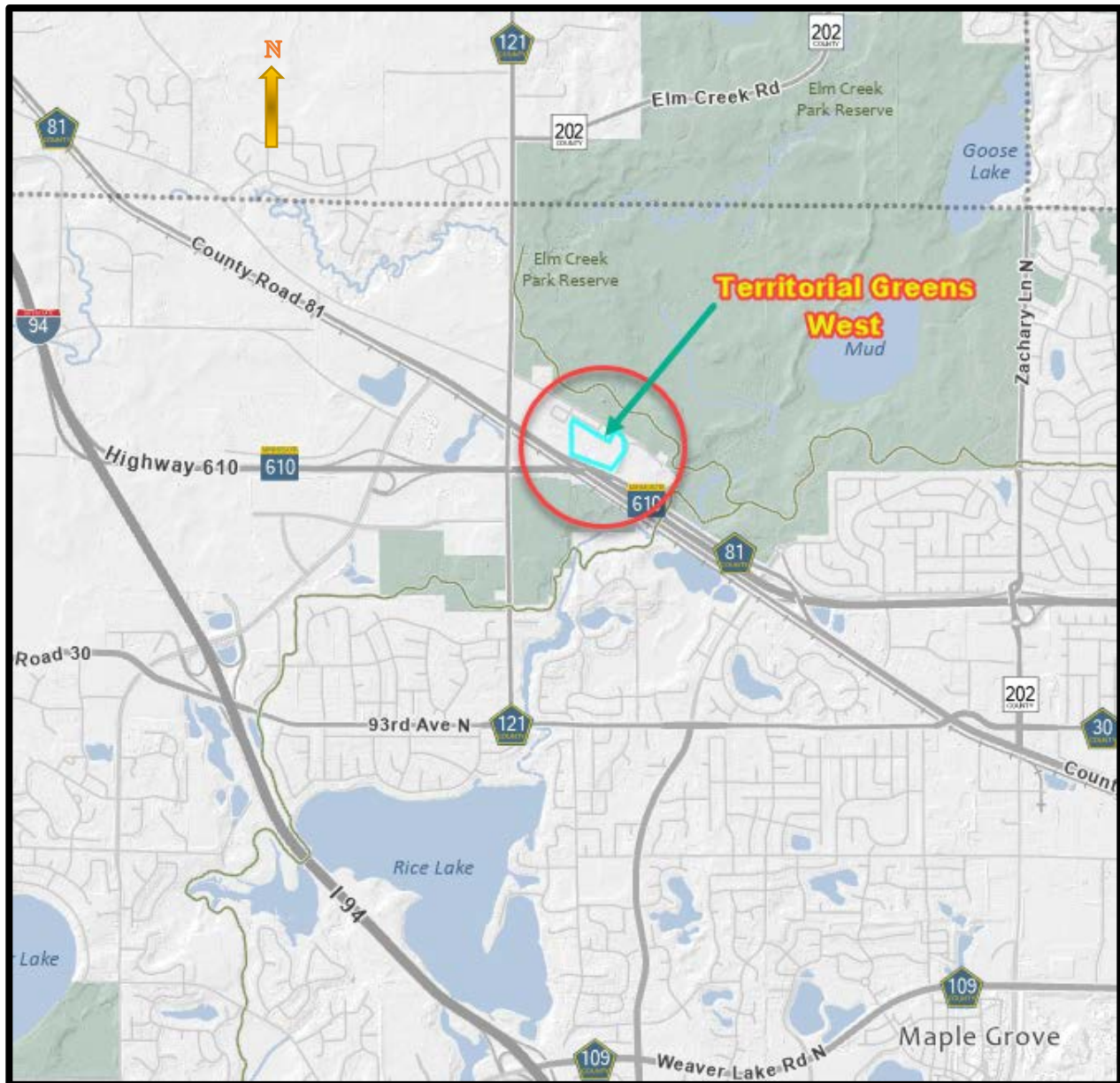
On Behalf of Barr Engineering
Advisor to the Commission



Surface Water Solutions LLC

July 31, 2020
Date

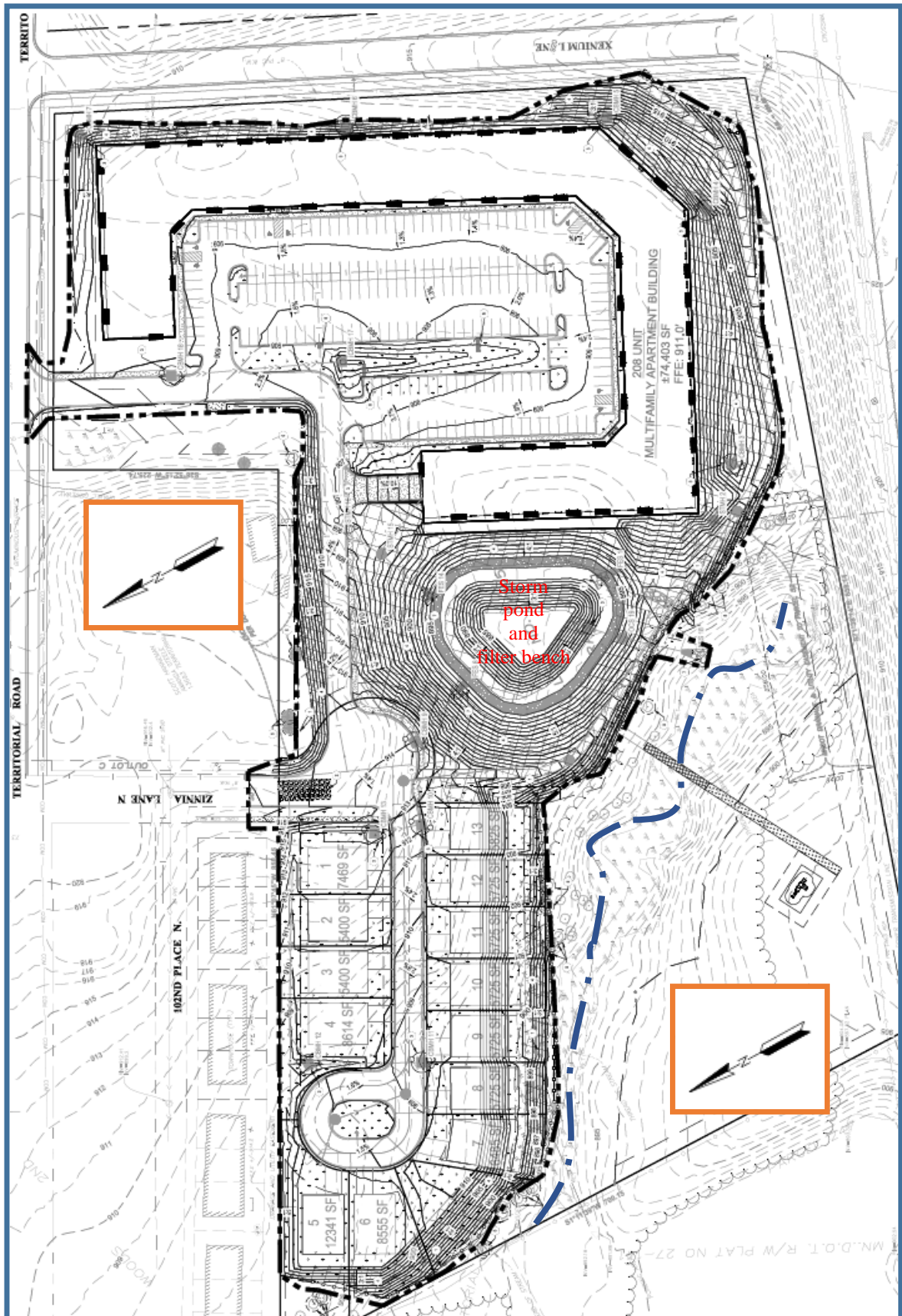
Location Map



2020 Aerial Photo



Grading Plan



elm creek

Watershed Management Commission

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Territorial Greens East **Maple Grove, Project #2020-014**

Project Overview: This is a 13.2-acre site located at the southerly terminus of Territorial Road. Highways 81 and 610 are south of it and the Elm Creek Park Reserve borders it to the north and east. Seventy-three (73) single family townhomes creating 5.6 acres of new impervious areas are proposed on this site.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- | | | |
|---|--------|------------------------------|
| 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: M/I Homes of Minneapolis/St. Paul. Attention Jason Biederwolf. 5354d Parkdale Drive, Suite 100, St. Louis Park, MN 55416. Phone: 763-586-7283. Email: biederwolf@mihomes.com.

Agent: Carlson McCain, Attention Justin Olson, 3890 Pheasant Ridge Drive NE, Suite 100, Blaine, MN 55449. Phone: 763-489-7942. Email: jolson@carlsonmccain.com.

Exhibits:

- 1) A complete ECWMC application received May 11, 2020.
 - a. ECWMC Request for Review and Approval dated May 1, 2020.
 - b. City of Maple Grove authorization for review, dated May 11, 2020
 - c. Project review fee, \$1,450 for 13.2 acres, residential site development project received May 8, 2020
 - d. Site plan design submittal via email on January 23, 2020.
- 2) Territorial Greens East Site Plans by Carlson McCain dated March 27, 2020 with last revision date of July 31, 2020.
 - a. Sheet 1 of 9, Cover
 - b. Sheet 2 of 9, Existing Conditions
 - c. Sheets 3-4 of 9, Preliminary Plat
 - d. Sheet 5 of 9, Removals Plan
 - e. Sheets 6 of 9, Preliminary Site & Utility Plan
 - f. Sheet 7 of 9, Preliminary Grading & Erosion Control Plan
 - g. sheets 8 & 9 of 9, Details
 - h. Sheets L1 to L3 of 3, Landscape Plans

- 3) Stormwater Management Plan for Territorial Green East by Carlson McCain dated March 27, 2020. Including soil borings by Haugo GeoTechnical Services, HydroCAD Model, MNPCA MIDS model and Impervious Areas Exhibit (1 of 1 sheet)
- 4) Correspondence to the City from Carlson McCain, regarding MnDOT, Landscaping, Traffic, Water Resources and Development Stage Plan questions.
- 5) Haugo GeoTechnical Services Infiltrometer test results dated July 30, 2020
- 6) Stormwater Pollution Prevention Plan for Territorial Greens East by Carlson McCain dated May 1, 2020.

Findings.

General

- 1) A complete application was received May 11, 2020. The initial decision period deadline per MN Statute 15.99 was July 10, 2020. The ECWMC extended the deadline to September 8, 2020.
- 2) This site drains to the east approximately 1,200 feet before entering Elm Creek just north of Highways 81 and 610. Approximately 24 acres off-site from the north and west drain through this property.
- 3) Proposed drainage remains essentially the same.
- 4) There are no floodplains, or stream crossing within this site area.
- 5) Proposed home low floor elevations are 2.0' or more above storm pond HWL and 1.0' or more above emergency overflow elevations.
- 6) The City of Maple Grove maintain the stormwater facilities in new developments with public infrastructure.

Rule D - Stormwater Management

- 1) One wet detention pond and one filtration pond are proposed for stormwater management on this site.
 - a. A splitter structure will route low flows from the wet detention pond into the filter basin, treating the abstraction volumes for this site. Higher flows (>1.1 inch storm in 24 hours) will bypass the filter basin.

Abstraction controls

- 1) New impervious areas will be 5.6 acres requiring 22,360 cubic feet (0.52 acre feet) of abstraction.
- 2) The filtration basin will have the capacity for 24,830 cubic feet (0.57 acre feet) of drawdown volume.
 - a. The drawdown volume is based on storage between the top of the sand filter (893.5) to the overflow weir in the splitter structure (894.7).
 - b. The drawdown time for a full basin will be 12.5 hours.
- 3) Filtration in lieu of infiltration is proposed on-site for abstraction.
 - a. Soil borings show a silty sand (SM unified soil classification) in the vicinity of the filtration basin.
 - i. A double ring infiltrometer test to measure in-situ soil permeability in the vicinity of the stormwater basin was completed on July 30, 2020. Over a 3-hour period, no infiltration occurred.
 - ii. Soils are unsuitable for infiltration. Filtration for abstraction is allowed per Rule D

- 4) Filter/infiltration basin pre-treatment of sediment in the stormwater is accomplished by routing all the street and impervious surface water into the wet-detention pond and vegetated swales prior to it flowing into the basin.

Water Quality Controls will meet the Commission standard

- 1) Pre vs Post development TSS and TP loads were modeled using the MPCA MIDS calculator. Results are as follows.

Stormwater Summary

CONDITION (39.8 AC.)	TP LOAD (LBS/YR)	TSS LOAD (LBS/YR)	FILTRATION (CU. FT.) ⁽¹⁾	ANNUAL VOLUME (AC. FT.)
Pre-development (baseline)	7.6	837	N/A	15.54
Post-development without BMPs	10.8	3555	22,360	23.98
Post-development with BMPs	5.2	379	24,830	N/A
Net Change	-2.4	-458	+2,470	+8.44

- (1) 5.6 acres new impervious

Rate Controls will meet the Commission standard.

- 1) Summary information below will be the total peak flows from this site before and after development.

Rate Control Summary

(39.8 Acres)	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rates	9.5	21.6	47.2
Post-Development Rates	3.4	10.0	19.4

Rule E - Erosion and Sediment Control

- 1) Plans meet the Commission's requirements.
- 2) Grading and erosion control plans address pre-, interim- and post-construction erosion controls.

Rules G and I – Wetland Alteration and Buffer Strips

- 1) One small wetland basin, 826 square feet in size, will be filled as part of this project. An application has been received to fill this wetland basin under the de minimis exemption.
 - a. The City of Maple Grove is the LGU in charge of administering the wetland requirements on this project.
 - b. If the one wetland basin can be filled, no wetland buffers will be required per the Commissions wetland and buffer strip rules.

Recommendation to the Elm Creek Commissioners.

Approval contingent upon:

- 1) Appropriate permits are obtained prior to wetland impacts.

On Behalf of Barr Engineering
Advisor to the Commission

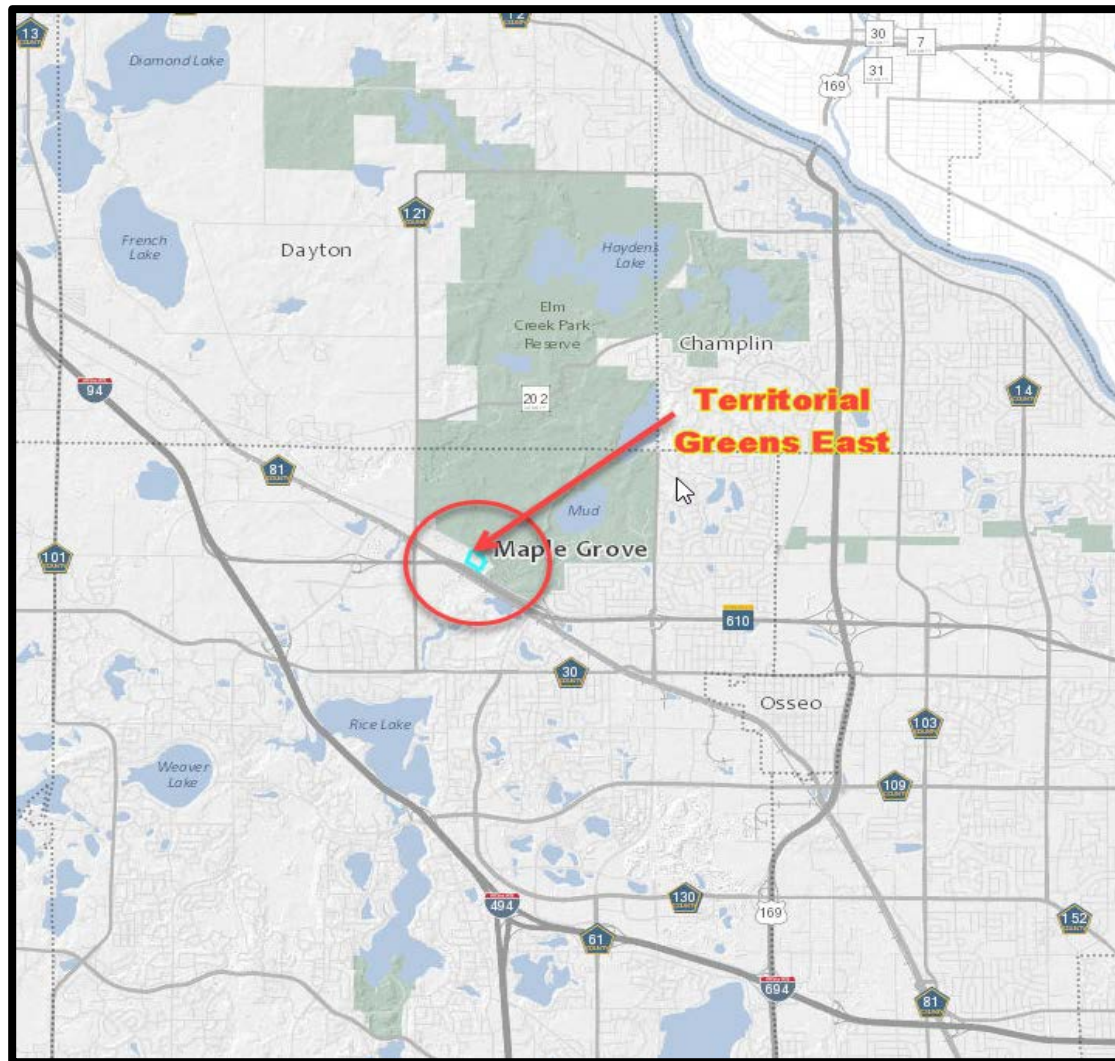


Surface Water Solutions LLC

August 3, 2020

Date

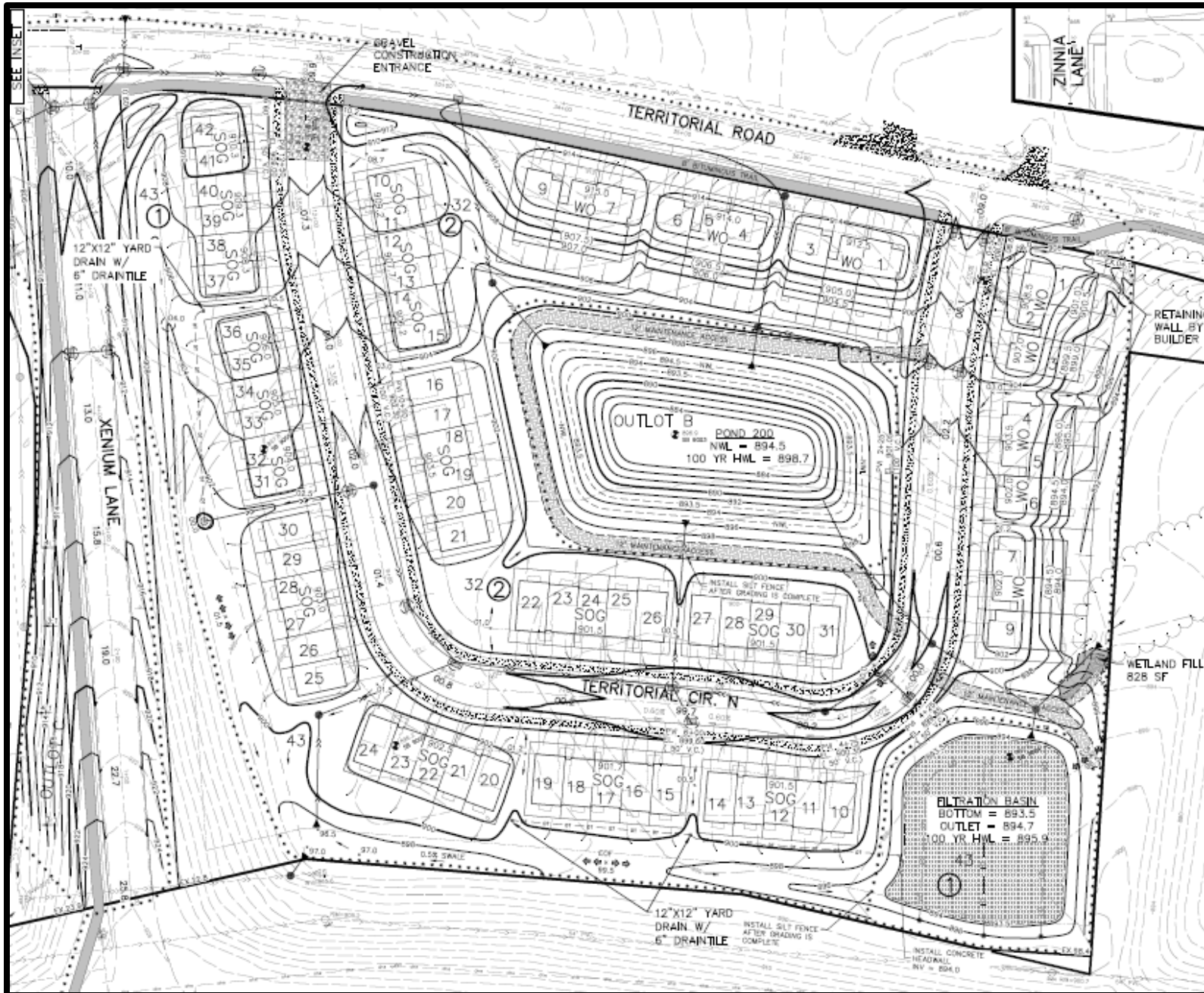
Location Map



2018 Aerial Photo



Grading and Drainage Plan



elm creek Watershed Management Commission

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Industrial Boulevard Extension *Rogers, Project #2020-021*

Project Overview: The City of Rogers is proposing to construct an extension of Industrial Boulevard. This will connect the road to CSAH 144 from the intersection with Edgewater Parkway. The City is also proposing to add turn lanes to accommodate access from CSAH 144 to the new Industrial Blvd connection and replace the existing box culvert under CSAH 144 located ~1,000 feet west of the new intersection with the County Road. This project will disturb 3.5 acres and increase impervious area by 2.2 acres. It will trigger the ECWMC stormwater management rule (Rule D) erosion control rule (Rule E), and floodplain rule (Rule F).

Applicant: The City of Rogers, Attention Andrew Simmons, 22350 South Diamond Lake Road, Rogers, MN 55374. Phone 763-428-0907. Email: asimmons@rogersmn.gov

Agent: WSB Associates, Attention Jake Newhall, 701 Xenia Ave. S., Suite 300, Golden Valley, MN 55416. Phone: 763-231-4861. Email: jnewhall@wsbeng.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval and associated fees received July 2, 2020.
- 2) Construction Plan set for Industrial Boulevard Extension Project by WSB dated April 14, 2020.
 - a. Sheets 1 to 7 of 82, Title Sheet, General Layout, Estimated Quantities & Tabulations.
 - b. Sheets 8 to 32 of 82, Details, Standard Plans and Typical Sections.
 - c. Sheet 33 of 82, Alignment Plans
 - d. Sheets 34 to 38 of 82, Detour and Removal Plans
 - e. Sheets 39 to 41 of 82, Sanitary Sewer & Watermain Plans.
 - f. Sheets 42 to 51 of 82, Street and Storm Sewer Plans
 - g. Sheets 52 to 55 of 82, Median Plans
 - h. Sheets 56 to 62 of 82 Erosion Control & Turf Establishment Plans and SWPPP
 - i. Sheets 63 to 65 of 82, Signing & Stripping Plans
 - j. Sheets 66 to 82 of 82, Cross Sections.
- 3) Floodplain fill/compensatory storage exhibits received July 22, 2020.

- 4) Stormwater Management Plan Information (updated 07/22/2020 revision with revised floodplain impact numbers).
 - a. Stormwater Management Plan Memo to ECWMC from WSB dated June 29, 2020.
 - b. Figure 1, Existing Drainage
 - c. Figure 2, Proposed Drainage
 - d. Figure 3 Demonstration of No Floodway Impact.
 - e. Existing and proposed HydroCAD Reports
 - f. Double Ring Infiltrometer Summary Report from WSB dated June 17, 2020.
- 4) FEMA-FIS Study for Hennepin County - 27053CV001B, Revised November 4, 2016.

Findings:

General

- 1) A complete application was received on July 2, 2020. The initial 60-day decision period ends on August 31, 2020.
- 2) This project will disturb 3.5 acres and create 2.2 acres of new impervious areas.
- 3) This project triggers Appendix O, Rules D, E and F of the Commission's rules and standards.
- 4) This site flows into the Crow River located just north of CR 144. Pre- and post-development drainage patterns are as follows:
 - a. Two acres along the southeasterly portion of this project flows east into an existing regional stormwater pond. That pond outlets into Fox Creek which flows for about 1,000 feet before entering the Crow River. These flows will remain the same before and after development.
 - b. The remaining areas (~5 acres) currently drains overland to the east into Fox Creek where it flows under CR 144. Proposed drainage will route this water westerly in the CR 144 ditch until it flows into the Crow River about 1,000 feet west of the intersection of CR 144 and Industrial Blvd. Where this water is being redirected and flows under CR 144 is also the site that the existing box culvert will be replaced.
 - c. To control stormwater volumes, flow rates, and water quality from this project, the design engineer proposes to:
 - i. Expand the storage area of the existing regional pond.
 - ii. Construct a pre-treatment and infiltration basin in the SW intersection of CR 144 and Industrial Blvd.
 - iii. Create compensatory floodplain volume in the parcel located southwest of the new CSAH 144 box culvert

Rule D – Stormwater Management.

Rate Controls will meet the Commission's requirements.

- 1) Expanding the existing regional pond and constructing an infiltration basin, post development rate controls will be less than pre-development flow rates as follows:

Runoff Rate Summary

		2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
East to Fox Creek at CR 144	Pre-Development Rate. (71.1 acres)	2.0	10.5	142.0
	Post-Development Rates (66.4 acres)	2.0	9.1	136.1
West to CR 144 Culvert	Pre-Development Rates (1.35 acres)	2.2	4.0	8.6
	Post-Development Rates (6.0 acres)	1.4	2.2	7.7

Abstraction controls will meet the Commission's requirements.

- 1) Volume control abstraction will be provided by a new infiltration pond. Runoff from 5.6 acres of the new section of Industrial Blvd. and a small portion of CR 144 ROW will be routed into a pre-treatment basin which flows into the infiltration basin.
 - a. Existing soils in the vicinity of the future infiltration basin were tested using a double ring infiltrometer procedure. Infiltration rates varied between 2.4 in/hr to 11.6 in/hr. These results suggest soils suitable for infiltration BMPs.
 - b. Pre-treatment for sediment from the drainage area to the basin will exceed MPCA guidelines. (Actual pretreatment volume = 3,750 cubic ft vs MPCA recommendation of 2,980 cubic feet.)
 - c. Abstraction required is determined by 2.2 acres of net increase in impervious areas on this project.
 - i. 2.2 acres of new impervious areas equate to 0.202 acre-feet (8,785 cubic feet) of required abstraction from this project.
 - ii. Actual abstraction storage available will be 0.684-acre feet. (bottom of basin at 871.27/overflow at 872.77).
 - iii. Drawdown on the basin for 0.684-acre feet using a conservative rate of 1.0 in/hr will be 27 hours. (maximum must be less than 48 hours)
 - iv. Note: The applicant is requesting excess abstraction volume (0.482-acre feet) be available for volume reduction credits on future development within the BMP's tributary area.

Water Quality Controls will meet the Commission's requirements.

- 1) This standard is met through the Commission's Rule D, 3.(e) i) which states, *no net increase in total phosphorus or total suspended solids can be satisfied by full infiltration of 1.1 inches of runoff from all impervious surfaces.* The submitted infiltration basin design accomplishes these criteria.

Stormwater Summary

Condition (based on 7.9 acres)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Infiltration (cu. ft.)	Annual Volume (ac. ft.)
Pre-development (baseline)	6.0	1,645	N/A	4.17
Post-development without BMPs	5.8*	1,045*	8,785 (required)	7.05
Post-development with BMPs	2.2	402	29,795	2.72
Net Change	-3.8	-1,243	21,010**	-1.45

*Lower loads on post-development because pre-development load concentrations are for gravel mining conditions.

**Excess infiltration volume available for future development within BMP basin tributary areas (5.6 acres).

Rule F Floodplain Alteration will meet the Commission's requirements.

- 1) Replacement of the existing culvert and grading activities for turn lanes along CSAH 144 will disturb the Crow River floodplain along this corridor.
 - a. The existing 30'-4'H x 6'V culvert will be replaced with a 66'-6'Hx4'V RCP box culvert.
 - b. This culvert conveys water directly to the Crow River during low flow conditions. It also acts as an equalizer culvert during flooding conditions, backing up water from the Crow River into the floodplain area south of CR 144.
 - c. The original culvert was not included in the DNR/FEMA Crow River floodplain model. The flow capacity will remain the same on the new culvert. The culvert is considered in-kind.
 - d. Crow River floodplain vs floodway. This project is designed to not disturb the Crow River floodway. Generally, a floodway lies within the boundaries of the floodplain, but only the floodway must be clear of structures and buildings.
 - Floodplain is based on an elevation: The 100-year FEMA floodplain through this corridor ranges from 871.0 where Fox Creek enters the river, to 872.0 where the culvert replacement will take place.
 - Estimated floodplain impact (fill) below these elevations is 1,222 cubic yards.
 - Estimate floodplain mitigation (cut) below these elevations is 2,609 cubic yards. This is being created in the parcel located southwest of the new CSAH 144 box culvert.
 - There will be a net increase of 1,387 cubic yards of floodplain storage.
 - Floodway: Floodways are portions of the floodplain where work cannot result in an increase in flood elevations greater than 0.00 feet. Modification of floodway extents requires a FEMA permit to change the regulatory floodplain maps.
 - FEMA floodway overlay maps from Hennepin County GIS and information provided by the applicant show that project work will not place fill in the floodway.
 - FEMA FIS Crow River cross-section U (37,462 feet above the confluence with the Mississippi River) is where the culvert replacement will take

place. FEMA describes the section of the floodway as 241 feet wide (124' in Hennepin County) with a section area of 3,083 sq. ft.

- Staff measurements of the Hennepin County Natural Resources Interactive Map distance and areas confirm the culvert construction to be outside of the floodway limits.
- MN DNR confirmed no floodway impacts would occur from this project.

Rule E Erosion Control Plans. Erosion and sediment control plans conform to Rule E.

Recommendation: Approval.

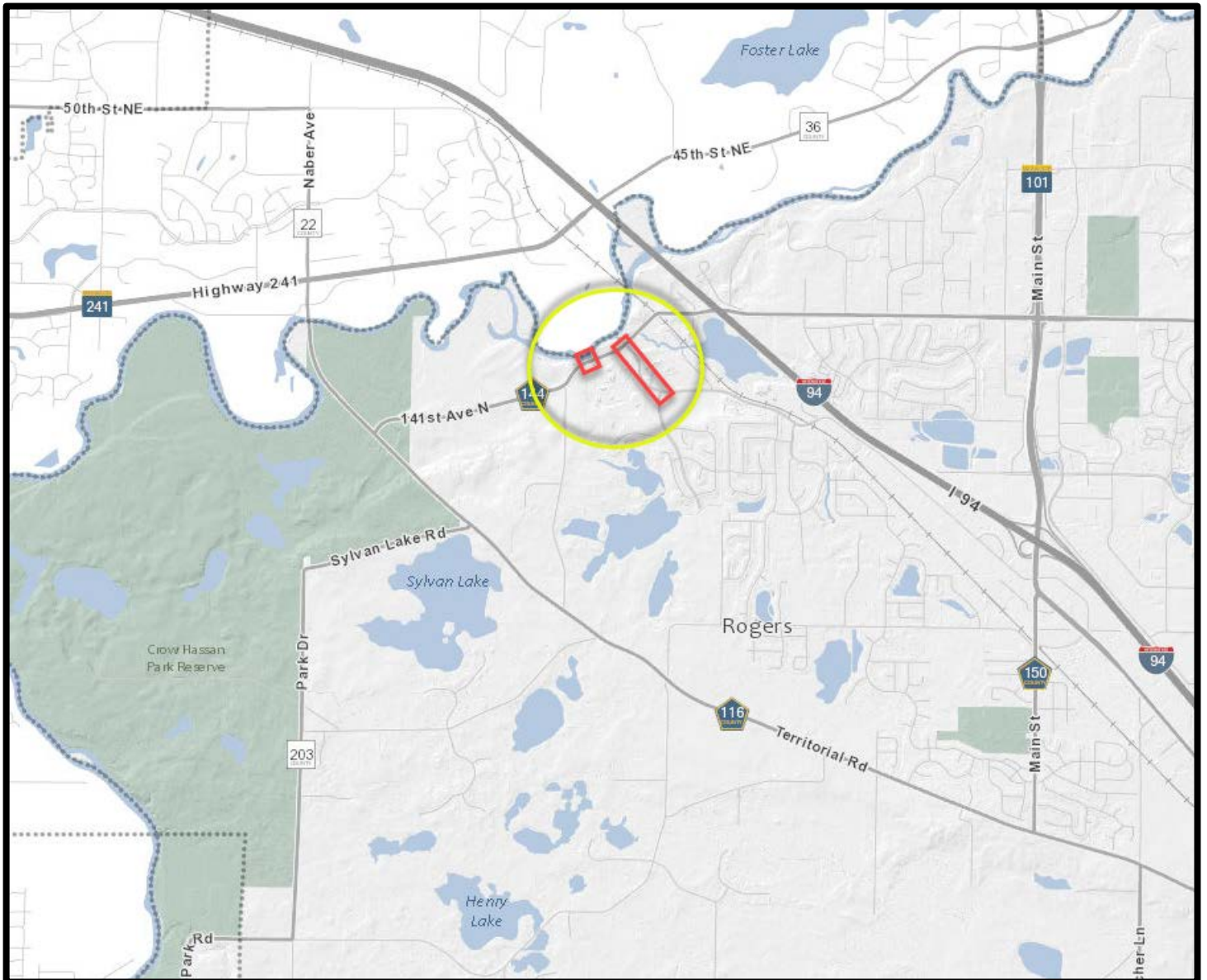
On Behalf of Barr Engineering
Advisor to the Commission



James C. Kujawa
Surface Water Solutions LLC

July 28, 2020
Date

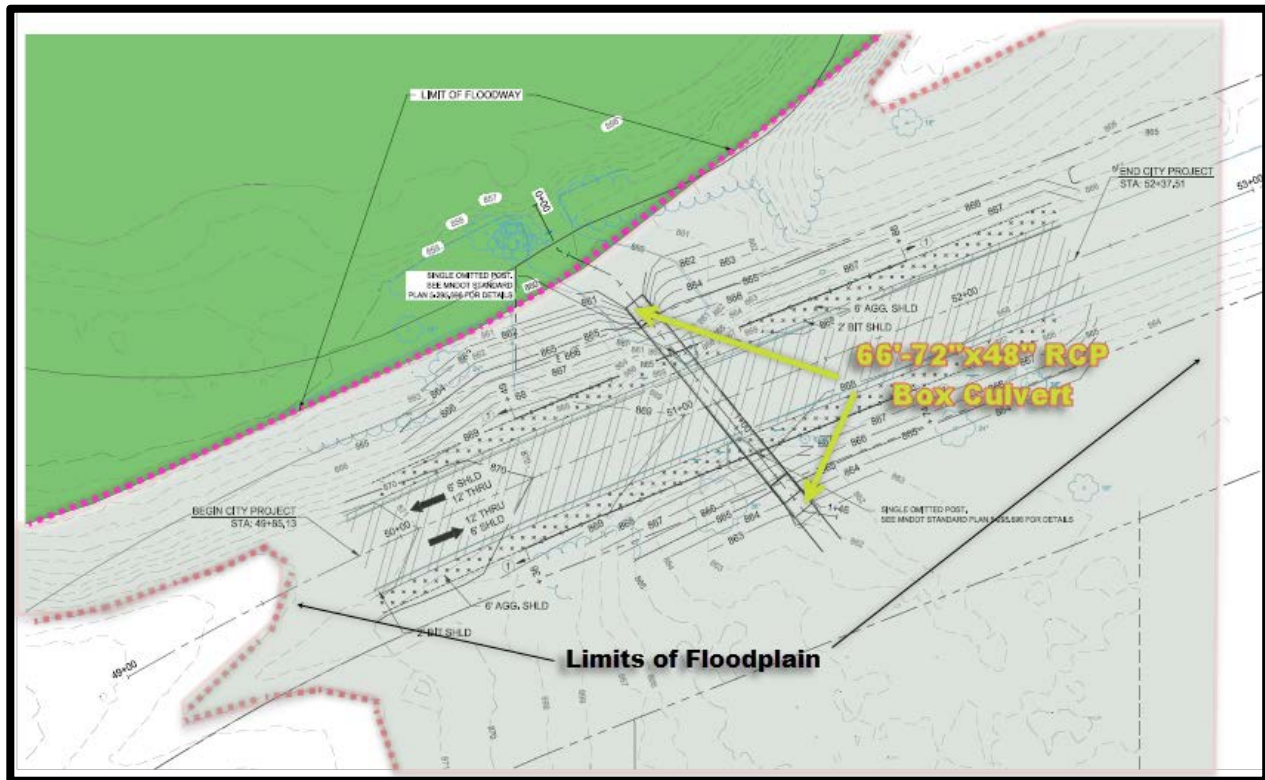
Project Location Map



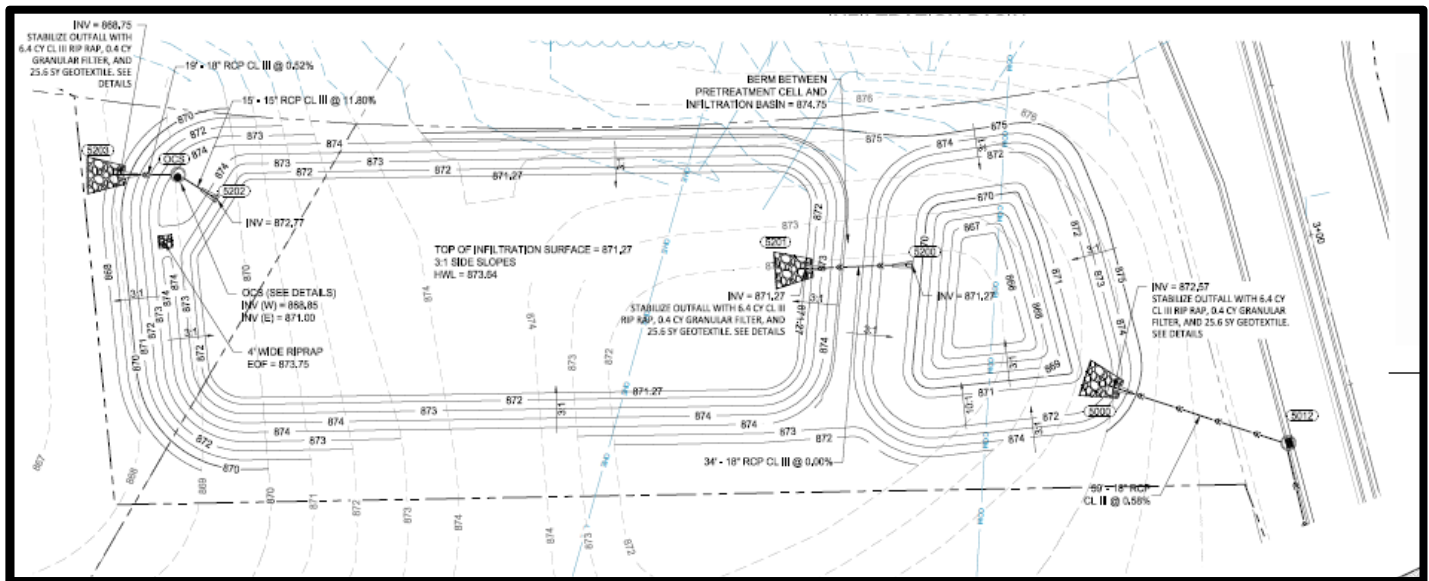
Project Overview



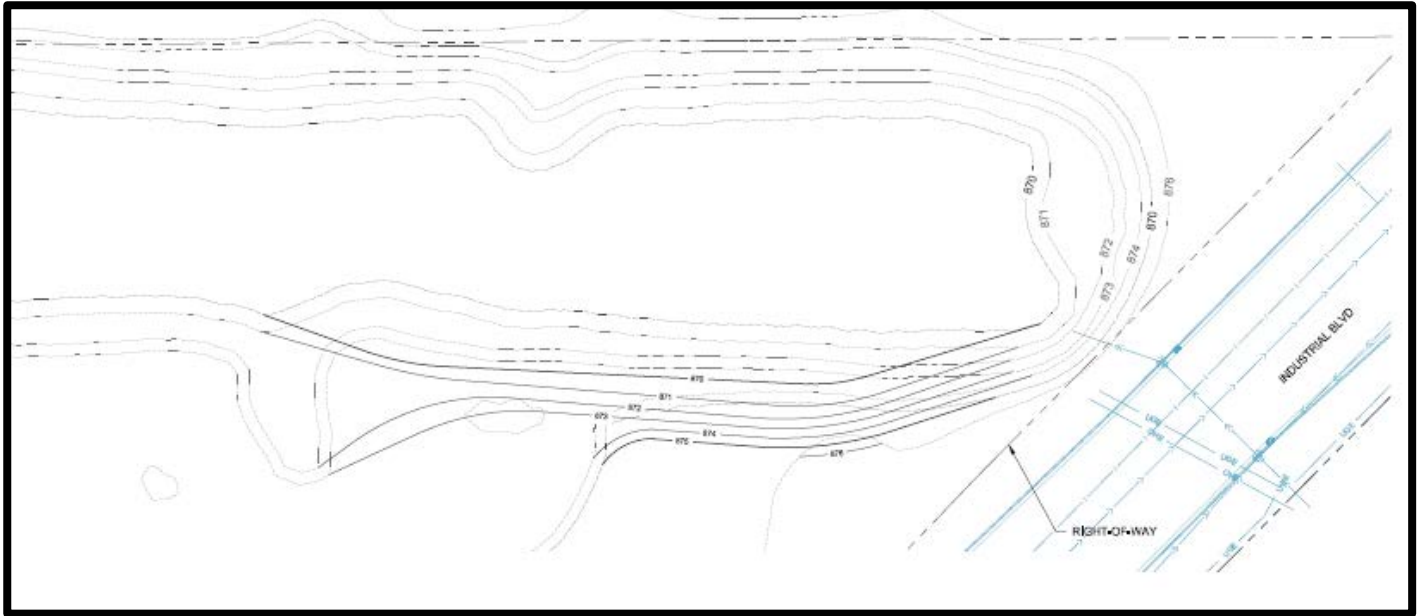
Box Culvert Replacement Area



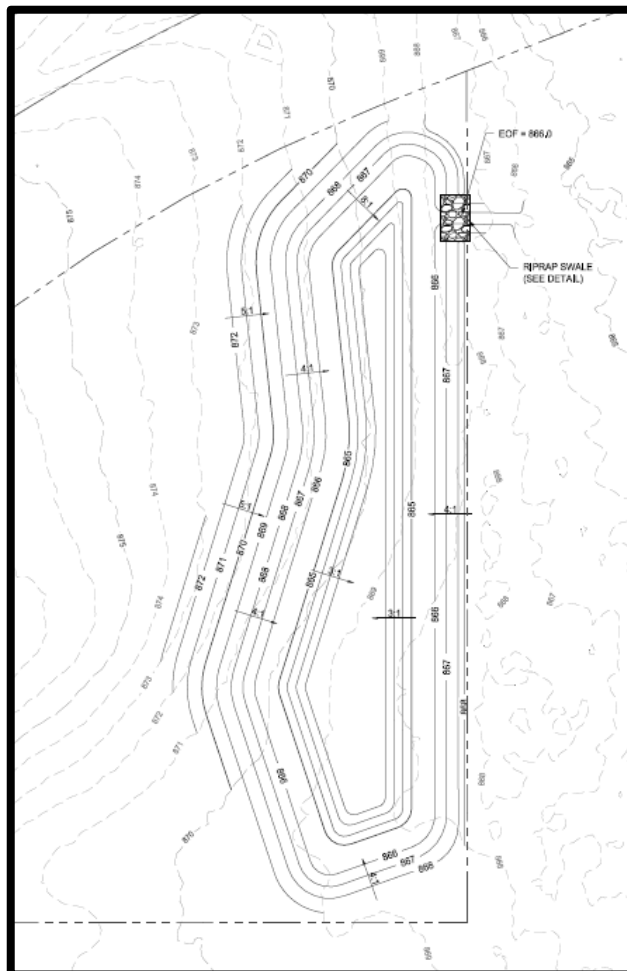
Infiltration Basin



Regional Pond Expansion



Floodplain Mitigation Basin



elm creek

Watershed Management Commission

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Elm Road Area Street and Utility Project *Maple Grove, Project #2020-022*

Project Overview: This project encompasses the street and utility work for the Elm Road Development and street improvements for Elm Road between Vicksburg and Lawndale Lanes. The ECWMC approved the site plans and street and utility work for the Elm Road Development under project 2020-004. Elm Road construction from Vicksburg to Comstock Lane (stations 159+92-133+00) was also part of 2020-004 approvals. This project review will cover the Elm Road street and storm sewer work proposed by the City of Maple Grove between Comstock and Lawndale Lanes (Stations 133+00-100+85).

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

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

Applicant: The City of Maple Grove, Attention Derek Asche, 12800 Arbor Lakes Parkway, Maple Grove, MN 55369. Phone 763-494-6354. Email: dasche@maplegrovern.gov

Agent: WSB Associates, Attention Jake Newhall, 701 Xenia Ave. S., Suite 300, Golden Valley, MN 55416. Phone: 763-231-4861. Email: jnewhall@wsbeng.com
Nurture

Exhibits:

- 1) ECWMC Request for Plan Review and Approval and associated fees received July 2, 2020.
- 2) Construction Plan set for Elm Road Street and Utility Project by WSB dated June 15, 2020.
 - a. Sheets 1 and 2 of 223, Title Sheet & General Layout
 - b. Sheets 16 to 22 of 223, Miscellaneous Details.

- c. Sheets 88 to 138 of 223, Street and Storm Sewer Plans
 - d. Sheets 139 to 144 of 223, Storm Sewer Lateral Sheets.
 - i. Revised sheet 139 with addition sump MH on CBMH 5503 received July 27, 2020
 - e. Sheets 145 to 151 of 223, Pedestrian Ramp and Cul De Sac Plans
 - f. Sheets 152 to 177 of 223, Erosion Control and SWPPP Plans
 - i. Revised sheets 175 to 177 with temporary basin notes and sequencing received on July 27, 2020
 - g. Sheets B1 to B14 of 223, Box Culvert Plans
- 3) Memorandum to ECWMC from WSB dated June 29, 2020 regarding ECWMC Permit Application. Including:
- a. Appendix A, Existing and Proposed Drainage Maps,
 - b. Appendix B, Existing HydroCAD Report.
 - c. Appendix C, Proposed HydroCAD Report
 - d. Appendix D, P8 Modeling.
 - e. Appendix E, SHSAM (Sump and SAFL Baffle Model) Inputs and Results
 - f. Appendix F, No-Rise/Hydraulic Capacity Analysis (Elm Creek Box Culvert Replacement)
 - g. Appendix G, Geotechnical Report
- 4) HEC-RAS Run by WSB (May 13, 2020)
- 5) MN WCA notices
- a. MN WCA NOA-Boundary/Type dated March 4, 2020
 - b. MN WCA NOD-Boundary/Type dated June 9, 2020
 - c. MN WCA NOA-Wetland Replacement Plan dated June 6, 2020
 - d. MN WCA NOD-Wetland Replacement Plan dated July 10, 2020.

Findings:

General

- 1) A complete application was received on July 2, 2020. The initial 60-day decision period ends on August 31, 2020.
- 2) This project will disturb 6.3 acres and create 1.51 acres of new impervious areas west of Comstock Lane.
- 3) Elm Road is currently a rural gravel road. It drains into ditches on both sides of the road. This water eventually makes its way to Elm Creek near the Elm Road Bridge.
- 4) Improvements will include reconstruction of Elm Road into an urban (curb and gutter) road with sidewalks and utilities.
- 5) Drainage patterns will remain essentially the same before and after this project. Because of the bridge, creek, and wetland elevations near Elm Creek, portions of the road drainage could not be captured for treatment. To help control flow rates, volumes, and water quality and to overtreat for the uncontrolled flows near the creek, the following best management practices are proposed:
 - a. One pond with a biofiltration bench will be installed in Elm Road Park.
 - b. A biofiltration basin will be installed near Elm Creek.

- c. To decrease sediment flows into the creek and new ponding basins, 8 sump manholes are proposed throughout the corridor.
 - d. Where untreated flows enter the creek, SAFL Baffle weirs with sump manholes will be installed in the upstream storm sewer manhole structures to prevent coarse sediments and floatables from entering the creek.
- 6) The project triggers Rules D, E, F, G and H of the Commission's Rules and Standards.

Rule D – Stormwater Management

Rate Controls will meet the Commission's requirements.

- 1) Constructing a wet detention pond with a biofiltration bench along with the additional biofiltration basin will keep flow rates similar before and after construction. Peak flow rates are modeled as follows:

Runoff Rate Summary to Elm Creek

	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate. (188.6 acres)	29.3	41.2	61.1
Post-Development Rates (188.6 acres)	28.5	40.3	58.9

Abstraction controls will meet the Commission's requirements.

- 1) Abstraction controls will be provided by one new wet detention pond with a filtration bench and one new biofiltration basin.
- a. Existing soils along the Elm Road corridor have a high clay content resulting in extremely low infiltration capabilities making them unsuitable for infiltration basins. In lieu of infiltration, abstraction will be provided by filtration/biofiltration basins.
 - b. There will be 1.51 acres of new impervious areas from this project.
 - i. 6,030 cubic feet of abstraction (filtration) is required
 - ii. The two filter basin areas will provide 20,240 cubic feet of abstraction.
 - c. Pre-treatment for sediment from the drainage area to the wet detention pond is not necessary because the dead storage section of the pond will settle out sediments before they can enter the filter bench. One, four (4) foot sump manhole in the last catch basin (CBMH 5508) before this storm sewer line exists to the wet detention pond is provided for additional pre-treatment.
 - d. Pre-treatment for the filter basin will be provided by two, 4-foot sump areas in CBMH's 5504 and 5503 before the storm sewer exits to the filter basin.
 - e. Drawdown on the wet detention/filter bench pond will occur in 48 hours using a draw down rate of 1.2"/hour. The city will require draw down testing to confirm these assumptions.
 - f. Drawdown on the filter basin will occur in 14 hours.

Water Quality Controls will meet the Commission's requirements.

- 1) P8 modeling was used to evaluate before and after TP and TSS loads. A summary of before and after nutrient loads are in the stormwater summary table on the following page.

Rule E Erosion Control Plans. SWPPP and Erosion control plans meet the Commission's requirements.

Stormwater Summary

Condition (based on 51.8 acres)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Abstraction thru Filtration (cu. ft.)	Annual Volume (ac. ft.)
Pre-development (baseline)	14.9	1,960	N/A	32.75
Post-development without BMPs	33.5	10,127	6,030	37.53
Post-development with BMPs	12.0	1,921	20,240	37.53
Net Change	-2.9	-39	+14,210	+4.78

Based on P8 models

Rules F and H, Floodplain Alteration and Bridge and Culvert Crossing will meet the Commission's requirements.

- 1) To conform to the ECWMC rules F and H, this work must not cause a net decrease in flood storage capacity or cause an alteration to the timing, high water, or restrict flood flows unless it is shown that the work will not cause high water or aggravate flooding on other land and not unduly restrict flood flows. It must also adequately retain hydraulic capacity to pass the 100-year flows and maintain the 100-year flood profiles and mimic the existing 1- and 2-year flow conditions.
- 2) This project will replace the existing Elm Road culvert for Elm Creek. The current culvert is two-8 ft. x 8 ft. box culverts that are 32 feet long. The project will replace both culverts with a single 56-foot long 16-foot x 9-foot box culvert. The bottom 1 foot of the culvert will be embedded below the streambed to allow natural sediment transport and provide improved stream connectivity.
 - a. The longer culvert and wider roadway will result in a net decrease in flood storage capacity. A determination of this decrease must be provided to the Commission..
- 3) Pre vs post conveyance capacities were provided by a HEC-RAS model that simulates flow conditions for the existing and proposed culverts.
 - g. Model results confirm the new culvert will adequately replicate the existing culverts conveyance of Elm Creek.
 - h. The analysis determined there would not be any affect to the creeks 100-year elevation.
- 4) The applicant provided a no-rise certification for the work indicating that the loss of flood storage and new culvert configuration would not cause an increase in flood elevations.
- 5) A DNR water crossing permit has been applied for and will be required before culvert replacement work can begin.

Recommendation:

Approval contingent upon:

- 1) DNR permitting of the new Elm Creek Road culverts for Elm Creek.
- 2) The net decrease in flood storage capacity must be determined.

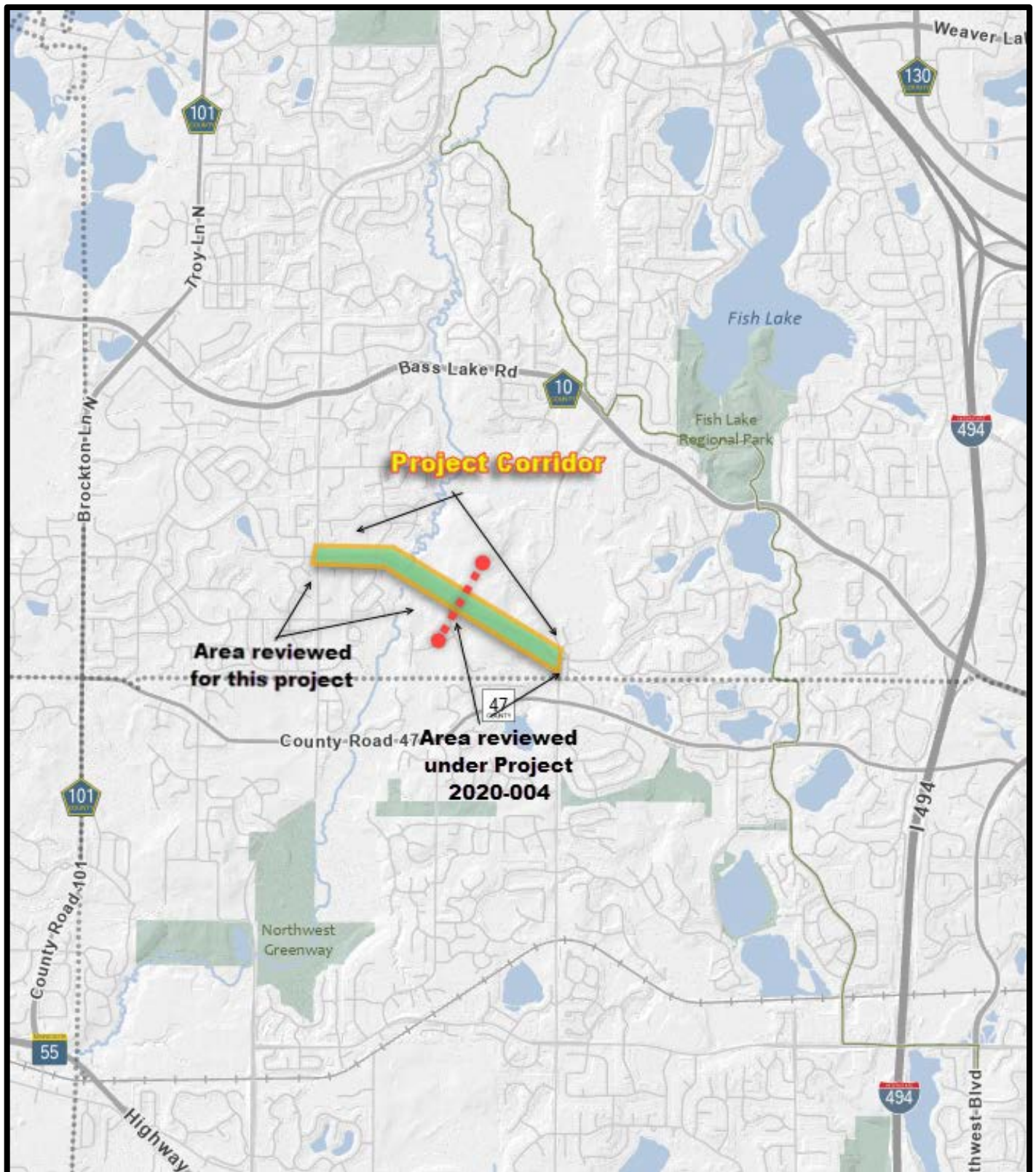
On Behalf of Barr Engineering
Advisor to the Commission



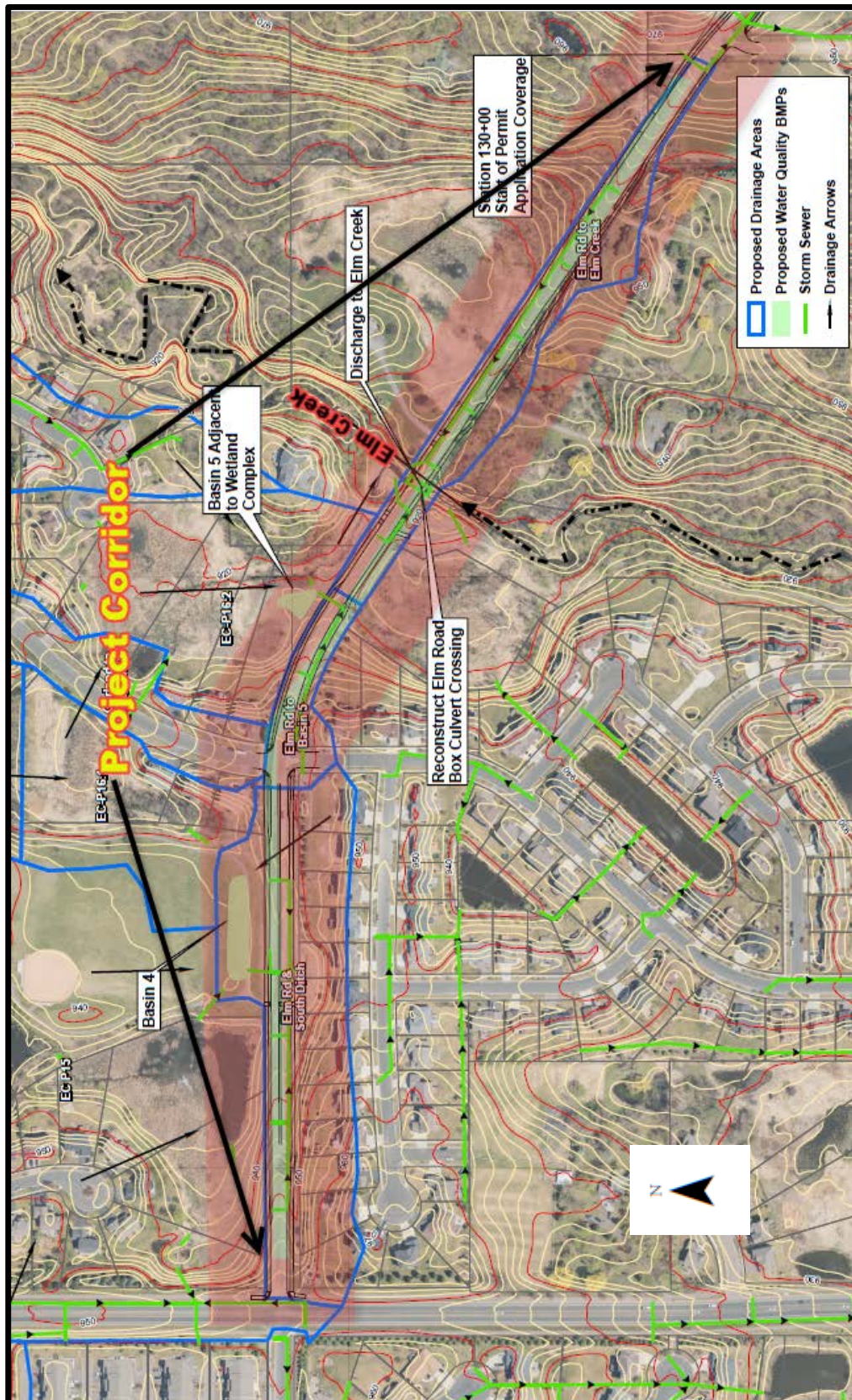
James C. Kujawa
Surface Water Solutions LLC

July 31, 2020
Date

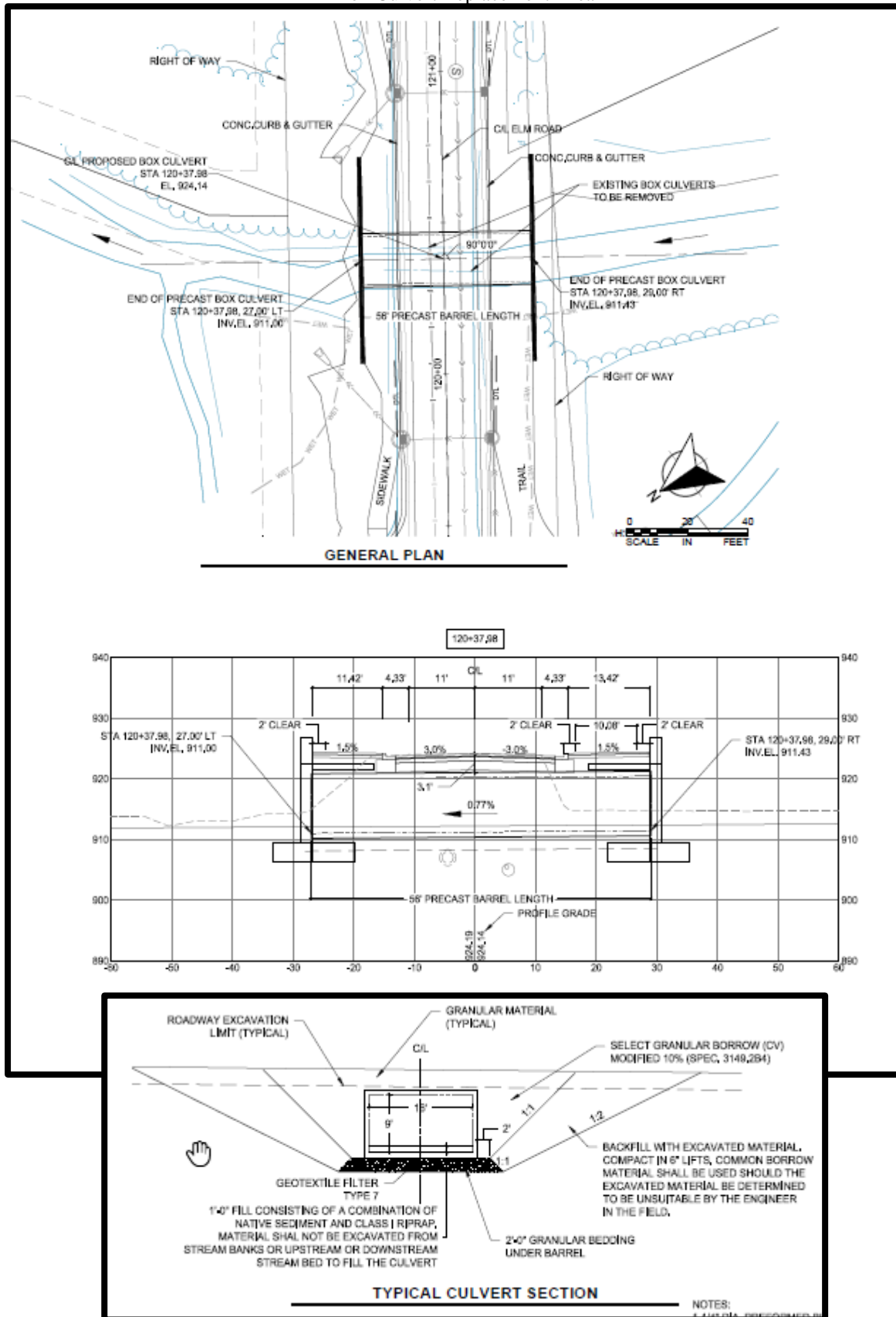
Project Location Map



Project Overview



Box Culvert Replacement Area



elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
FAX: 763.553.9326
Email: judie@jass.biz

TECHNICAL OFFICE
Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
PH: 503-957-7710
Email: jherbert@barr.com

Ziegler Dayton Site Upgrades *Dayton, Project #2020-023*

Project Overview: This is an existing 4.73-acre commercial parcel. It is located on Territorial Road near Holly Lane near the Maple Grove border in Dayton. 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.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- | | | |
|---|--------|------------------------------|
| 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 |
| X | Rule I | Buffer Strips |

Applicant: Ziegler Inc., Attention Tary Draper, 901 West 94th Street, Bloomington, MN 55420. Phone: 952-887-5848. Email: Tary.draper@zieglercat.com

Agent: Rehder & Associates, Inc., Attention Nick Adam, 3440 Federal Drive, Eagan, MN 55122. Phone: 651-337-6729. Email nadam@rehder.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval and associated fees received July 16, 2020.
- 2) Ziegler Dayton Site Upgrade Plans by Rehder & Associates unsigned and dated May 18, 2020. Last revision date July 28, 2020
 - a. Sheet C1, Grading, Drainage and Erosion Control Plan
 - b. Sheet C2, Utility Plan
 - c. Sheet C3, Details & Specifications
- 3) Ziegler Dayton Site Upgrades Storm Water Management Report by Rehder & Associates dated May 18, 2020, Revised July 28, 2020.

- a. Narrative
 - b. Basins 1 & 2 Volume control sizing calculations,
 - c. Pre-and post-development HydroCAD design information, including existing and proposed drainage area plans.
 - d. Geotechnical Evaluation Report by Braun Intertec dated June 26, 2020.
- 4) Technical Memorandum to Wenck Associated (City Engineer) from Rehder & Associates regarding Upgrade Comments dated May 22, 2020.
 - 5) Wetland Permit Application for Ziegler Inc. by Kjolhaug Environmental Services dated July 28, 2020.

Findings:

General

- 1) A complete application was received on July 16, 2020. The initial 60-day decision period ends on September 14, 2020.
- 2) This site area is 4.73 acres in size. Existing impervious areas before development are 1.85 acres. Impervious areas after development will be 3.07 acres. New impervious area will be 1.22 acres.
- 3) The existing site has a drainage divide in the middle of the lot. The northerly 2.15 acres flows into an existing wetland before entering the Territorial Road ditch. The southerly 2.57 acres flows west off site. Both discharge points flow west 600 feet before entering a large wetland north of I94 then south under the freeway before getting to the North Fork of Rush Creek about ½ mile south of this property.
- 4) Site drainage patterns will essentially remain the same after development.
- 5) The project will disturb over 1.0 acres, create additional impervious areas, and has wetlands.
- 6) The project triggers Rules D, E, G, and I of the Commission's Rules and Standards.

Rule D – Stormwater Management

- 1) Two biofiltration basins with filter strips for additional TSS treatment and Enhanced Iron filtration media around the drain tiles for dissolved phosphorus retention are proposed for stormwater management.
- 2) Storm sewer is not proposed on this site. Sheet flow of the runoff water from this site is proposed. The water is directed overland through a vegetative filter strip prior to entering the filter basin.
- 3) The applicant and city will have to determine who is responsible for the long-term operation and maintenance of the stormwater facilities on this site. If the landowner is responsible, an operation and maintenance agreement must be developed and approved by the Commission. Said agreement must be recorded on the property title with a copy of the recorded document provided to the ECWMC.

Rate Controls will meet the Commission's requirements.

- 1) The biofiltration basins and their outlet structures will control flow rates for the 2-, 10-, and 100-year storm events as follows.

	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development North (2.15 acres)	3.4	7.0	11.7
Post-Development North (2.18 acres)	1.6	6.9	11.7
Pre-Development South (2.57 acres)	5.7	9.8	18.7
Post Development South (2.55 acres)	4.6	8.8	9.5

Water Quality will meet the Commission's requirements.

- 1) Analysis of pre- vs post-development total phosphorus (TP) and total suspended solids (TSS) loads was not provided with the application. The summary table is the EC technical staff analysis of these loads using the MPCA MIDS stormwater calculator for the basins and BWSR water erosion calculator for the pre-treatment filter strips. Per the MIDS and BWSR models, post development loads for TP and TSS will be less than pre-development loads.

Abstraction Controls will meet the Commission's requirements.

- 1) Two biofiltration basins with drain tile and iron enhanced media will be installed for abstraction volume controls on site.
- 2) Soil borings confirm high-clay content soils unsuitable for infiltration. Biofiltration of the abstraction volume is acceptable in lieu of infiltration.
- 3) Abstraction volume required will 1.1 inches of runoff on the 1.22 acres of new impervious areas. This amounts to 4,871 cubic feet of water volume to abstract (filter).
- 4) Actual water volume filtered through the two bio-filtration basins will be 10,431 cubic feet. The north basin filters 6,817 cubic feet and south basin 3,614 cubic feet.
- 5) Pre-treatment of sheet flow water through filter strips is proposed to filter sediment from the site and parking areas and retain extra TSS before it enters the biofiltration basins. Filter widths for pre-treatment were designed per the MPCA Stormwater Manual and are acceptable.

Stormwater Summary

Condition (based on 4.75 acres)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Abstraction thru Filtration (cu. ft.)	Annual Volume (ac. ft.)
Pre-development (baseline)	3.0	245	N/A	5.35
Post-development without BMPs	6.1	1103	4,871	7.44
Post-development with BMPs	1.81	228	10,431	7.44
Net Change	-1.2	-17	+5,560	+2.09

Rule G - Wetland Alteration

- 1) The applicant is proposing to fill the two wetlands that exist on this site. Approximately 33,135 square feet of wetlands will be impacted.
- 2) Dayton is the LGU in charge of administering the MN WCA requirements within their jurisdiction. A wetland replacement plan has been provided to the ECWMC.

- a. The City of Dayton wetland ordinances comply with the ECWMC Rule G (Wetland Alteration) and MN WCA rules
- b. If the wetland replacement plans comply with MN WCA and Dayton requirements, they will comply with ECWMC Rule G.
- c. Wetland replacement plans have been provided to the ECWMC for review and comment.

Rule I - Buffer Strips meet the Commission's requirements.

- 1) Buffers will not be required for onsite wetlands if the wetland replacement plans are approved by the City of Dayton.
 - a. In this scenario, all the onsite wetlands will be impacted and considered non-wetland.
- 2) Buffers are required for offsite wetlands when buffer areas extend into the adjacent property. This occurs in the SW corner of this property.
 - a. For this site, a wetland area exists on the adjacent property in the SW corner.
 - i. The buffer requirement from the offsite wetland will be 4,120 square feet (based on 3:1 constructed slopes, and a 103 foot length of wetland edge along the property line).
 - ii. The buffer area for this site will cover the constructed south biofiltration basin.
 - iii. 4,540 square foot buffer area will encompass the westerly berm area of the basin.
 - iv. Stormwater basins are considered acceptable buffer areas because the intent of a buffer area is to:
 1. Provide permanent vegetation establishment for terrestrial environments, and to provide a vegetative area for runoff water to be filtered prior to entering a wetland.
 2. Both conditions occur on this stormwater basin.
 - v. Native vegetation establishment of seed mix 33-261 (MnDOT native stormwater south and west mix) is proposed on the basin.

Rule E – Erosion and Sediment Control meet the Commission's requirements.

Recommendations:

Approval contingent upon:

- 1) Wetland replacement plan as is currently proposed with 33,135 square feet of impacts is approved by the LGU.
- 2) An operation and maintenance plan for the stormwater facilities is provided that meets the Commission's requirements (see item 3 under the stormwater management section).

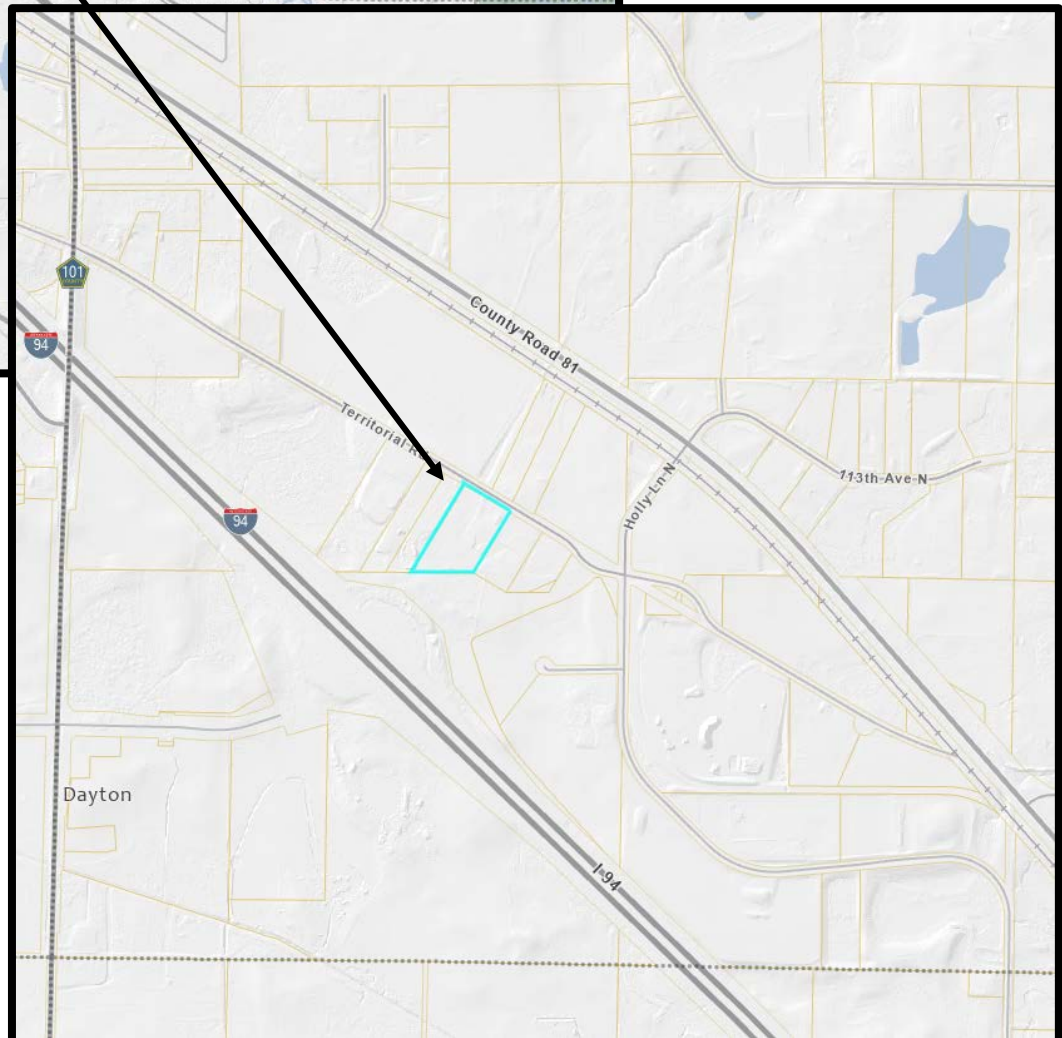
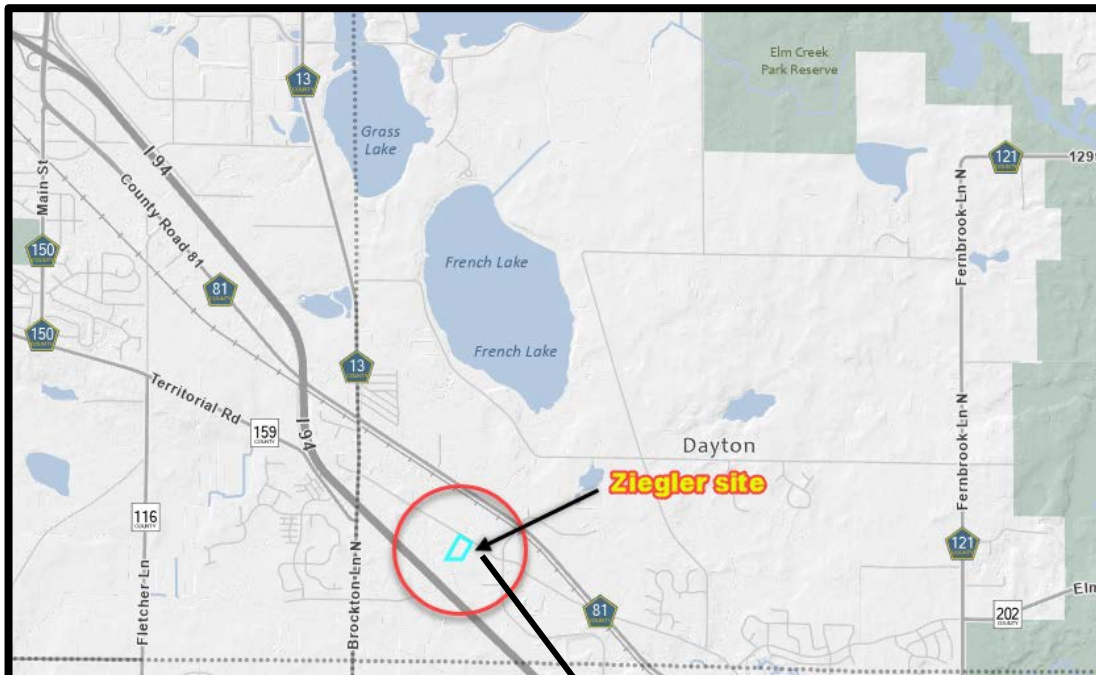
On Behalf of Barr Engineering
Advisor to the Commission



James C. Kujawa
Surface Water Solutions LLC

July 31, 2020
Date

Ziegler Overall Site



2018 Aerial Overview



Grading, Drainage, and Erosion Control Plan

