

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE

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www.elmcreekwatershed.org

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join this meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click Join A Meeting. **The meeting ID is 990-970-201.**

The passcode is water. 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)

+1 253 215 8782 US

+1 669 900 6833 US (San Jose)

+1 346 248 7799 US (Houston)

+1 301 715 8592 US

AGENDA REVISED

Regular Meeting – May 12, 2021

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

1. Call Regular Meeting to Order.
 - a. Approve Agenda.*
2. Consent Agenda.
 - a. Minutes last Meeting.*
 - b. Treasurer's Report and Claims.*
 - 1) Project review fee refunds.* **approval to refund monies/invoice applicants on completed projects.**
 - 2) Barr costs spreadsheet.*
3. Open Forum.
 - a. Presentation by Brett Arne, BWSR - Performance Review and Assistance Program (PRAP).*
4. Action Items.
 - a. Discuss, accept proposed 2022 Operating Budget.*
 - 1) Member Assessments.*
 - 2) Line item descriptions.*
 - b. Project Reviews. *See item 10 below and Staff Report.**
 - c. Third Party HUC8 Review.*
5. Old Business.
6. New Business.
 - a. CIP TAC Meeting – update.
 - 1) Proposed CIP.*
 - 2) Exhibit A - Elm Road Area/Everest Lane Stream Restoration.*
 - 3) Exhibit A - EC Stream Restoration Phase V.*
 - 4) Cost Share Program.*
 - b. Call for Public Meeting.* **This memo has been updated. Verbiage in red provides additional information and also reflects the actions of the TAC as it discussed revisions to the CIP.**
 - c. **Select one lake for CAMP.**
7. Communications.
 - a. Staff Report.*

(over)

*in meeting packet

**available at meeting or on website

b. Hennepin County May Staff Report.***1) 2021 Cooperative Agreement.*****c. Reminders:**

- 1) Consider 2022 budget at May meeting. Approve by June meeting.
- 2) Accept 2020 Audit Report at June meeting.
- 3) TAC meeting to review Rules and Standards in June.
- 4) Review PRAP report at July meeting.

8. Education.

- a. WMWA – update.
- b. WMWA – next meeting is scheduled for June 8, 2021 at 8:30 a.m. This will be a **virtual** meeting
<https://us02web.zoom.us/j/922390839?pwd=RU95T2ttL3FzQmxHcU9jcFhDdng1QT09>.
 Meeting ID: **922 390 839** | Passcode: **water** | or dial into one of the numbers above.

9. Grant Opportunities and Updates.**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	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
ak.				AR	2017-014	Laurel Creek, Rogers.
al.				AR	2017-029	Brayburn Trails, Dayton.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
b.					2018-020	North 101 Storage, Rogers.
am.				AR	2018-046	Graco, Rogers.
an.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
ao.				AR	2019-002	Parkside Villas, Champlin.
ap.				AR	2019-021	Brenly Meadows, Rogers.
aq.				AR	2019-026	Interstate Power Systems, Rogers.
ar.				AR	2019-027	Havenwood at Maple Grove.
as.				AR	2019-032	OSI Expansion, Medina.
at.				AR	2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
c.					2020-002	Project 100 Minnesota Health Village, Maple Grove.
au.				AR	2020-008	Ione Gardens, Dayton.
av.				AR	2020-009	Stetler Barn, Medina.
d.					2020-016	Skye Meadow, Rogers.
aw.				AR	2020-017	Meadow View Townhomes, Medina.
ax.				AR	2020-023	Ziegler Dayton Site Upgrades, Dayton.
ay.				AR	2020-025	Paulsen Farms, Corcoran.
az.				AR	2020-027	Kariniemi Addition, Corcoran.
e.					2020-029	Sundance Greens 5th 6th Addition, Dayton.
ba.				AR	2020-030	Nelson International, Corcoran.
bb.				AR	2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
bc.					2020-033	Weston Woods, Medina.
bd.				AR	2020-036	Balsam Pointe, Dayton.
f.					2021-002	Skye Meadows Variance, Rogers.

*in meeting packet

**available at meeting or on website

Elm Creek Watershed Management Commission

May 12, 2021 Regular Meeting Agenda

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g.					2021-005	WJD Two Third Addition, Rogers.
h.					2021-007	Birchwood 2nd Addition, Rogers
i.					2021-008	Edgewater 3rd Addition, Rogers
j.					2021-009	Palisades at Nottingham 3rd Addition, Maple Grove
k.	E	A			2021-010	Gleason Fields, Maple Grove
l.					2021-011	Graco Building 1, Dayton
m.	E	A			2021-012	The Oaks at Bauer Farm, Champlin
n.					2021-013	Rush Creek Reserve Phase 1, Corcoran
o.	E	A			2021-014	Elm Creek Stream Restoration Phase 4, Champlin
p.					2021-016	Territorial Lofts, Rogers.
q.	E	A			2021-017	The Park Group Building, Rogers.
r.	E	A			2021-018	Tavera, Corcoran.
s.					2021-019	Kwik Trip, Dayton.

A 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.

Z:\Elm Creek\Meetings\Meetings 2021\05 Regular Meeting Agenda revised.docx

12. Adjournment.

*in meeting packet

**available at meeting or on website

Watershed Management Commission

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PH: 612.834.1060
Email: jherbert@barr.com

Tavera Phase I City of Corcoran Project #2021-018

Project Overview:

Location: West of County Road 116 and North of Hackamore Road in Corcoran, MN
Purpose: The applicant is proposing to develop the site into a 248-unit housing development, with 114 single family detached lots and 134 attached townhouse units. The project is a first phase of a larger 548-unit housing development called Tavera. The total site area is 273.6 acres with 28.9 acres of additional impervious surface proposed.

WMC Rules Triggered:

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

Applicant: U.S Home Corporation DBA Lennar
Address: 16305 36th Ave N. Suite 600
Plymouth, MN

Attention: Paul J. Tabone
Phone: 952-221-4032
Email: PaulTabone@Lennar.com

Agent: Pioneer Engineering
Address: 2422 Enterprise Drive
Mendota Heights, MN 55120

Attention: Paul Cherne
Phone: 651-251-0630
Email: pcherne@pioneereng.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	4/19/2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	4/19/2021
	<input checked="" type="checkbox"/> City authorization: Corcoran, MN	4/19/2021
	<input checked="" type="checkbox"/> Review fee: \$10,550.00	4/19/2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	4/16/2021
Submittals	1. Stormwater Management Plan	2/17/2020
		4/21/2020
		6/1/2020
		2/16/2021
		4/16/2021
	2. Phase 1 Grading Plan	2/17/2020
		2/16/2021
		4/16/2021

Exhibits:	Description	Date Received
3.	Preliminary Plat and Utility Design dated February 4, 2021	4/21/2020 6/1/2020 4/16/2021
4.	First Addition Utility and Street Construction plan set dated February 9, 2021	4/16/2021
5.	PUD & Master Utility plan set dated September 11, 2020	4/16/2021
6.	XPSWMM model dated 4/9/2021	4/16/2021
7.	Tavera SWPPP dated February 9, 2021	4/26/2021
8.	PondNet and Stormwater Reuse calculations	4/26/2021
9.	Response Memo Tavera Plan Review Ph 1 and PUD dated April 12, 2021	4/16/2021
10.	Storm Sewer Design Tables	4/16/2021
11.	Tavera Phase 1 Reuse Plan dated February 26, 2021	4/16/2021
12.	Tavera Phase 1 Rational Area Map	4/16/2021

Findings

General

1. A complete application was received on April 19, 2021. The initial 60-day decision per MN Statute 15.99 expires June 18, 2021.
2. The site area for the entire Tavera development is 273.6 acres and will create 28.9 acres of impervious area. This permit is for Phase 1, which involves development of approximately 85 acres on the south side of Horseshoe Trail. The applicant provides treatment for the entire 28.9 acres of new impervious area accounting for Phase 1, future grading on the north side of Horseshoe Trail, and future Hackamore Road improvements.
3. The site ultimately drains north and east, to County Ditch 16 and County Ditch 14, respectively.
4. Elm Creek Watershed jurisdictional floodplains and wetland exist on site. A wetland impact permit was submitted to the LGU as part of this project.

Rule D – Stormwater Management (plans)

General

1. The entire Tavera development will disturb 273.6 acres. The new impervious area will be 28.9 acres.
2. The soils on the site are predominantly Hydrologic Soil Group Type D.
3. Soil borings indicate clay soils.
4. Stormwater will be managed on the site through one retention pond with an iron enhanced sand filtration bench (300P), one retention pond without a filtration bench (400P), and three stormwater reuse ponds (100P, 150P, 180P).
5. Existing and proposed XPSWMM models were developed to demonstrate compliance with rate control requirements, demonstrate the impact of the project on the on-site wetlands, and evaluate low floor elevations for nearby structures.

Low Floor Elevations

1. The 100-year flood elevation in the constructed ponds and existing wetlands is more than 2.0 feet below the low floor elevation of the proposed nearby structures.

Water Quality Controls

1. Plans **meet** Commission requirements for water quality controls.
2. The four constructed ponds are designed in accordance with the Elm Creek Watershed Management Commission NURP Basin requirements.
3. Existing conditions TP and TSS loading from the site were determined using the existing landcover and the ECWMC phosphorus loading guidance. TSS discharge was calculated based on the Event Mean Concentrations used in the MIDs Calculator.
4. Proposed conditions TP and TSS loading from the site were determined using PONDNET for NURP ponds, standard removal guidance from the Minnesota Stormwater Manual for iron enhanced sand filtration, and the Ramsey Washington Metro Watershed District stormwater reuse calculator for stormwater reuse.
5. The project meets the water quality requirements as shown in Table 1.

Table 1 Water Quality Summary

Condition	TP Load (lbs/year) ⁽¹⁾	TSS Load (lbs/year)	Filtration (acre-feet) ⁽²⁾
Pre-development (baseline)	153.8	27,940	--
Post-development without BMPs	236.6	34,848	--
Post-development with BMPs	136.8	22,670	4.26
Net Change	-17.0	-5,270	+4.26

(1) Proposed Post-development with BMPs TP load includes 2.1 lbs/yr from the Ravinia 66th street project

(2) 28.9 acres of new impervious

Rate Controls

1. Rate control measures **meet** Commission requirements.
2. Rate control for the site was provided by 5 constructed ponds.
3. Phase 1 existing and proposed runoff rates for the 2-year, 10-year, and 100-year rainfall events were evaluated with XPSWMM at the discharge point from Wetland E to Wetland Z beneath County Road 116.

Table 2 Rate of Discharge Leaving Site – Tavera Phase 1

Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Existing	23.6	34.9	51.6
Proposed	23.0	32.1	49.6
Change	-0.6	-2.8	-2.0

Abstraction Controls

1. Abstraction controls **meet** Commission requirements.
2. The required abstraction volume is achieved through the use of iron enhanced sand filtration, stormwater reuse for irrigation, wetland buffers in excess of the minimum requirements, and disconnection of impervious surfaces. The required abstraction volume for 28.9 acres of impervious area is 2.65 acre-feet. The project provides 4.26 acre-feet of abstraction, thus meeting the abstraction requirement.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices.
3. Erosion and sediment controls include rock construction entrances, biologs, inlet protection, erosion control blankets, riprap at all outfall locations, and temporary and permanent turf establishment.

Rule F – Floodplain Alterations

1. Plans **meet** Commission requirements for floodplain alterations.
2. Phase 1 of the project involves fill in the 100-year floodplain for a tributary to Elm Creek.
3. Compensatory storage is provided to offset fill in the floodplain impacts from fill required to construct roads and stormwater treatment facilities have been mitigated with excavation, resulting in an increase in floodplain storage.
4. The XPSWMM models demonstrate that the project will not significantly alter the timing of flooding or cause high water above existing conditions within the 100-year floodplain.

Rule G – Wetland Alteration

1. WCA compliance is managed by the LGU.

Rule I – Buffer Strips

1. Plans **meet** Commission requirements for buffer strips.
2. Buffer strips are provided around all on site wetlands meeting or exceeding the minimum buffer width requirements. Buffer extents are provided on the Plans.

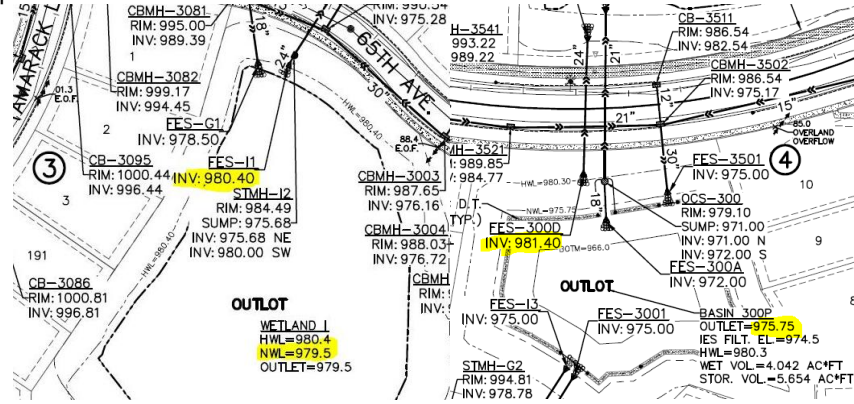
Recommendation

Approve

Conditions for Approval

1. Make plans and XP-SWMM model consistent. Areas of inconsistency include:
 - a. Wetland I outlet elevation: Plans (980.4), XPSWMM model (980.5)
 - b. Basin 300P outlet elevation: Plans (981.4) XPSWMM model (980.3)
 - c. Orifice outlet elevation from Basin 180P: Plans (976.0) XPSWMM model (976.5)

- d. Wetland O to Wetland L1: Plans show three pipes. XPSWMM model shows two double barrel outlets and a single barrel outlet (i.e., 5 total pipes).
2. Ensure all outlets to constructed ponds and wetlands discharge at or below the NWL of the waterbody to prevent erosion. Here are two examples where the Plans should be revised to meet this requirement:



3. Approval is contingent upon payment of all review fees. Additional payment may be required if the review cost exceeds escrow payment(s) previously submitted by the applicant.

Notes

1. This review covers Phase 1 of the project. Future phases will require a separate review application.

Barr Engineering
Advisor to the Commission

May 10, 2021
Date

Attachments

- | | |
|-----------|---|
| Figure 1 | Project Location |
| Figure 2 | Site Boundary |
| Figure 3 | Site Plan and Phase 1 Area |
| Figure 4 | Offsite Drainage Patterns |
| Figure 5 | Wetland and Floodplain Site Map |
| Figure 6 | Phase 1 Grading Plan |
| Figure 7 | Phase 1 Grading Plan – North Stormwater Basins |
| Figure 8 | Phase 1 Floodplain Fill and Compensatory Storage |
| Figure 9 | Phase 1 Stormwater Reuse - Irrigated Areas |
| Figure 10 | Phase 1 Erosion Control Plan – North Half of Site |
| Figure 11 | Phase 1 Erosion Control Plan – South Half of Site |
| Figure 12 | Phase 1 Wetland Buffers and Disconnected Impervious |

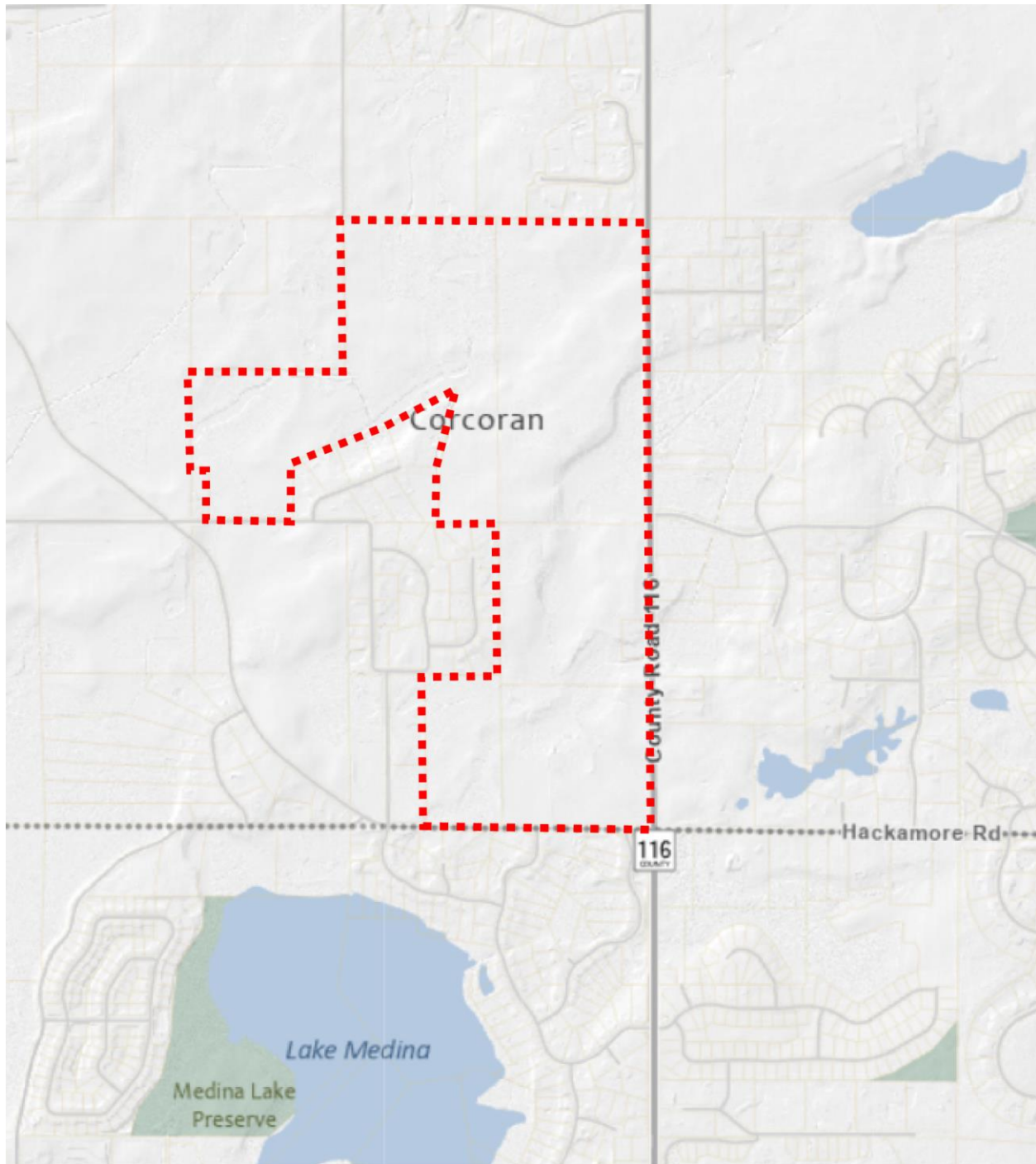


Figure 2 Site Boundary

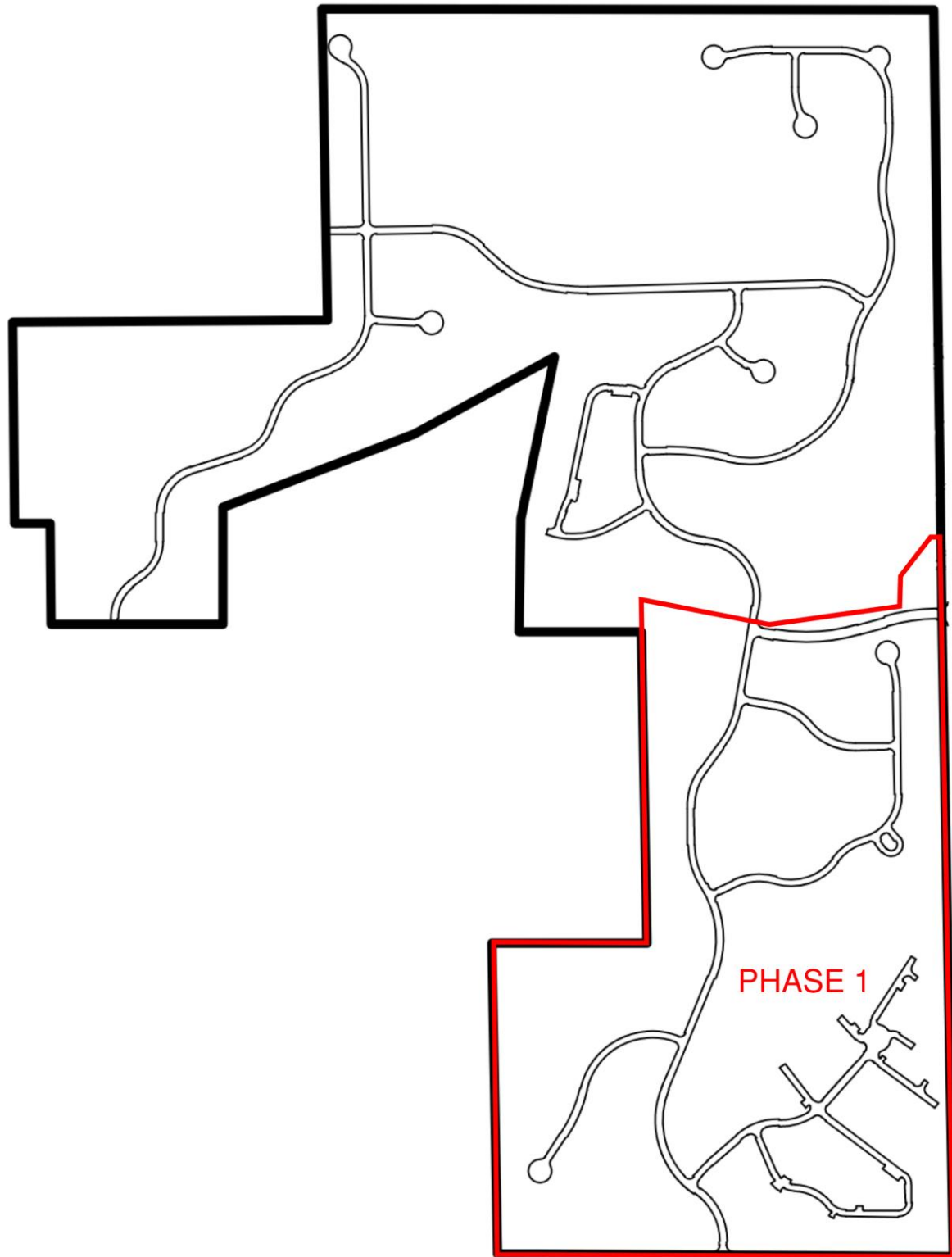


Figure 3 Site Plan and Phase 1 Area

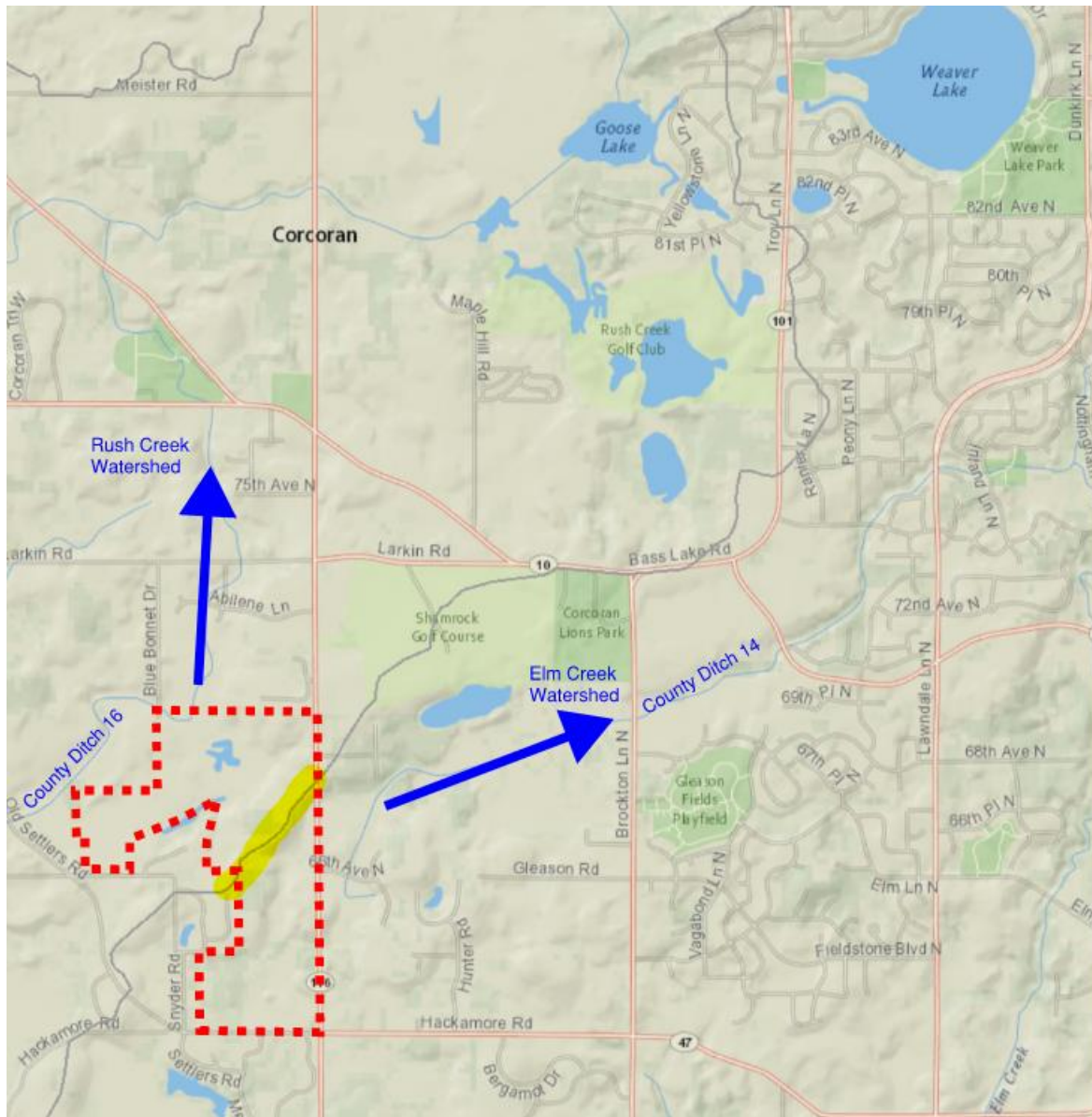


Figure 4 Offsite Drainage Patterns

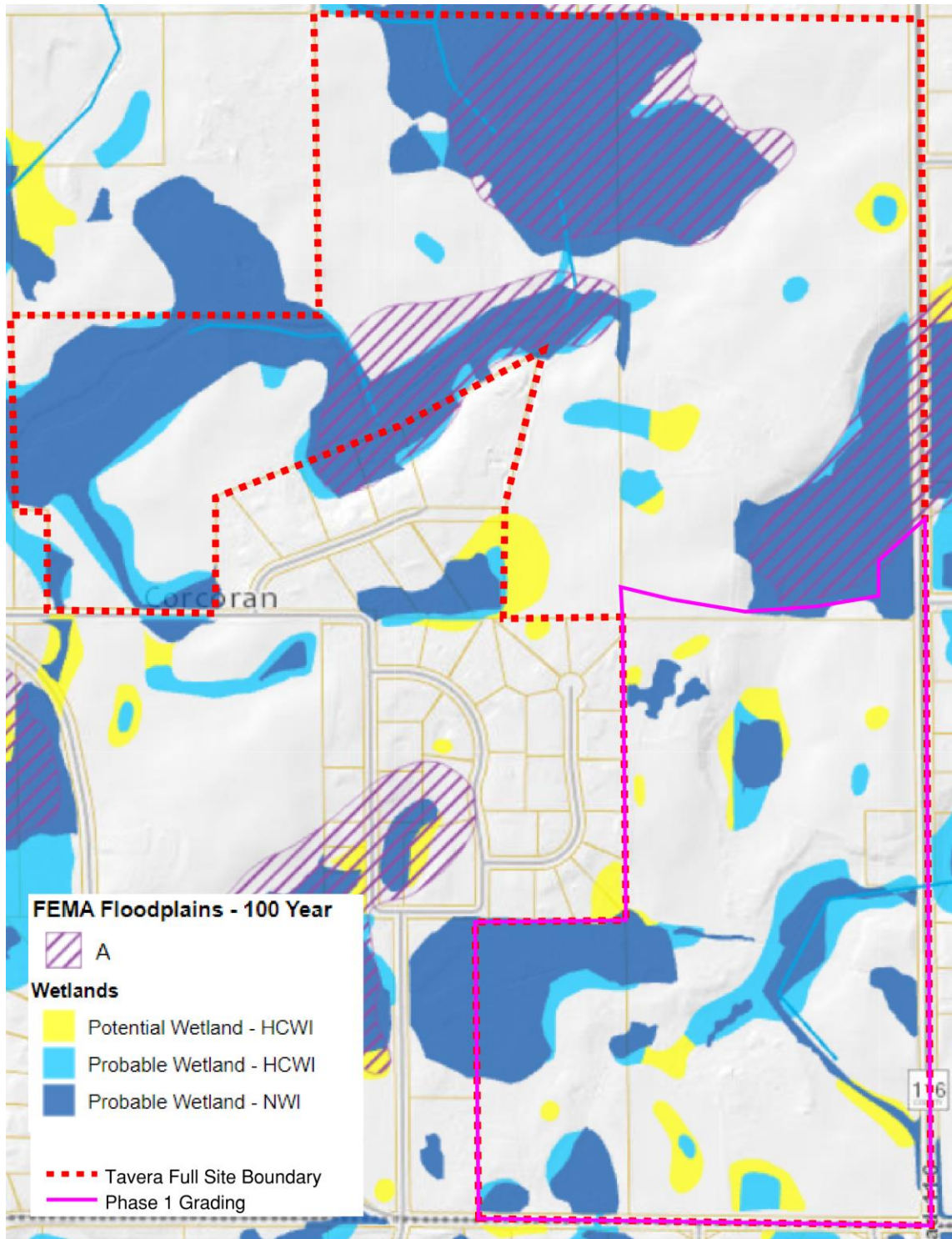


Figure 5 Wetland and Floodplain Site Map

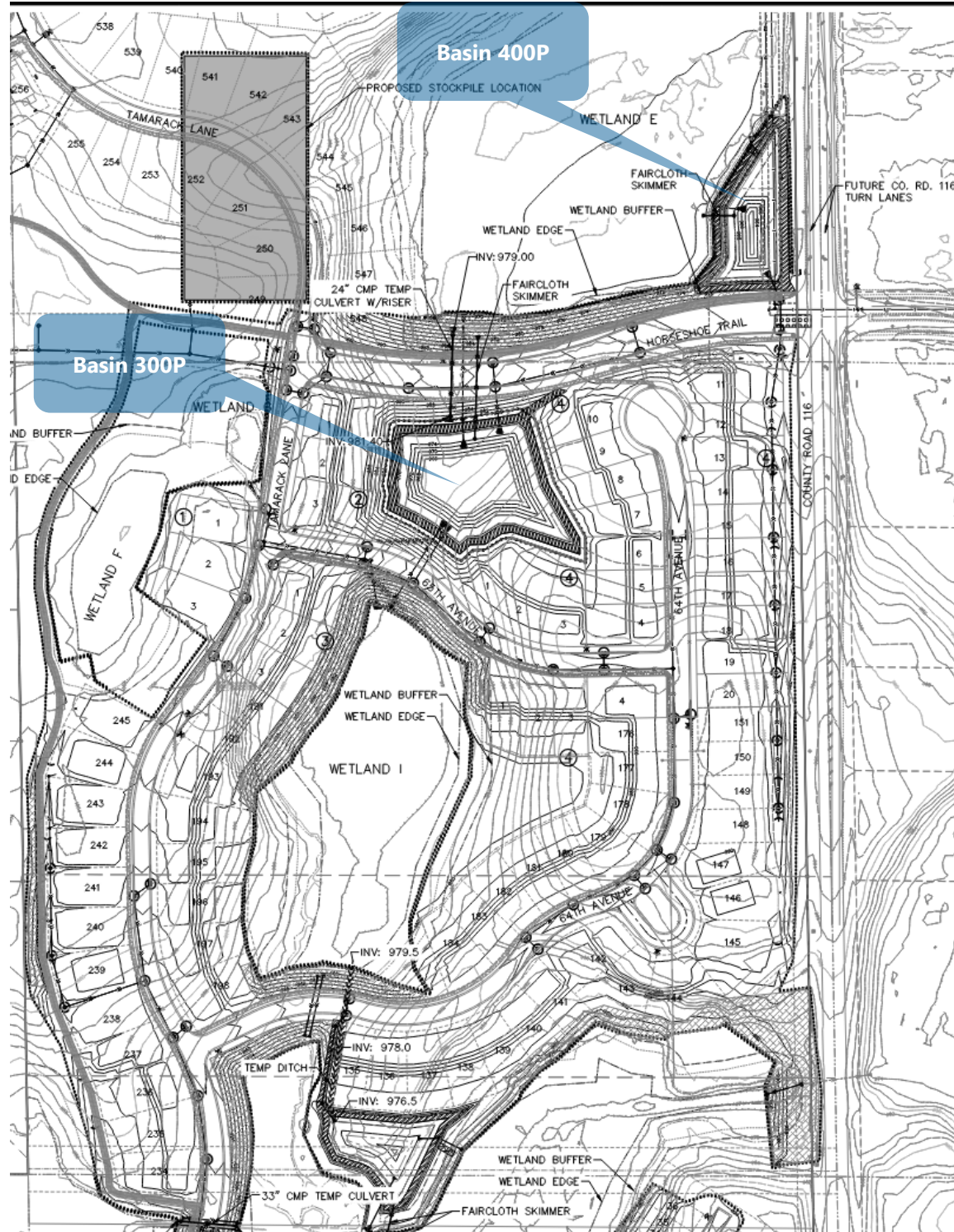


Figure 7 Phase 1 Grading Plan – North Stormwater Basins

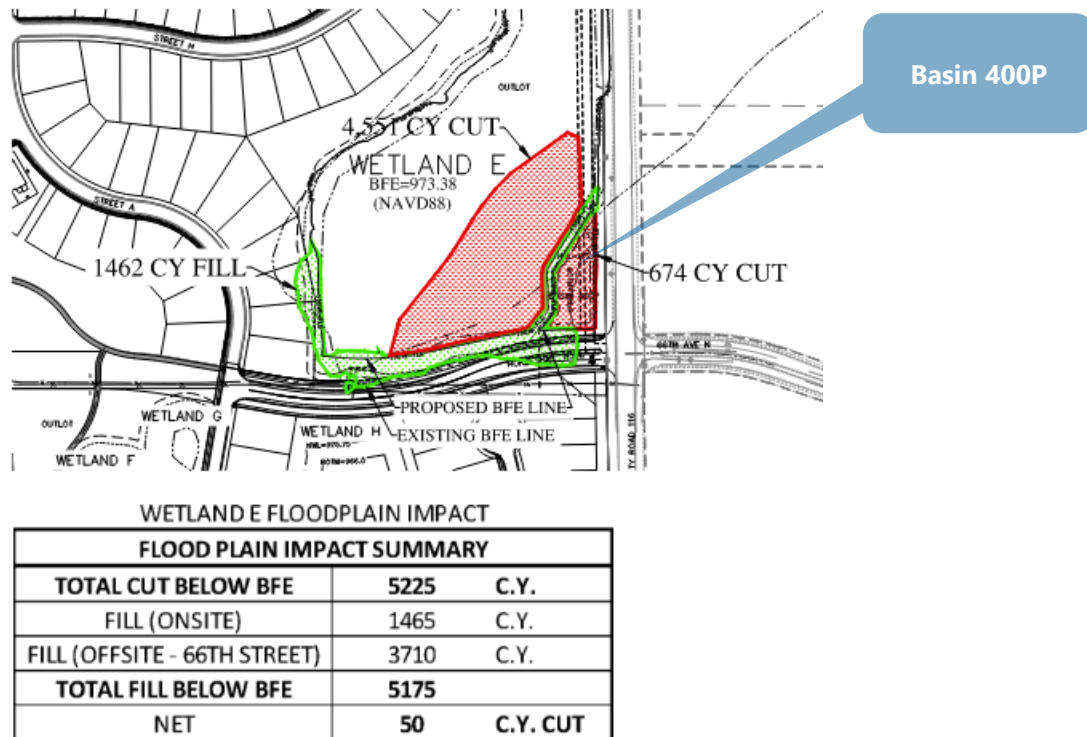


Figure 8 Phase 1 Floodplain Fill and Compensatory Storage

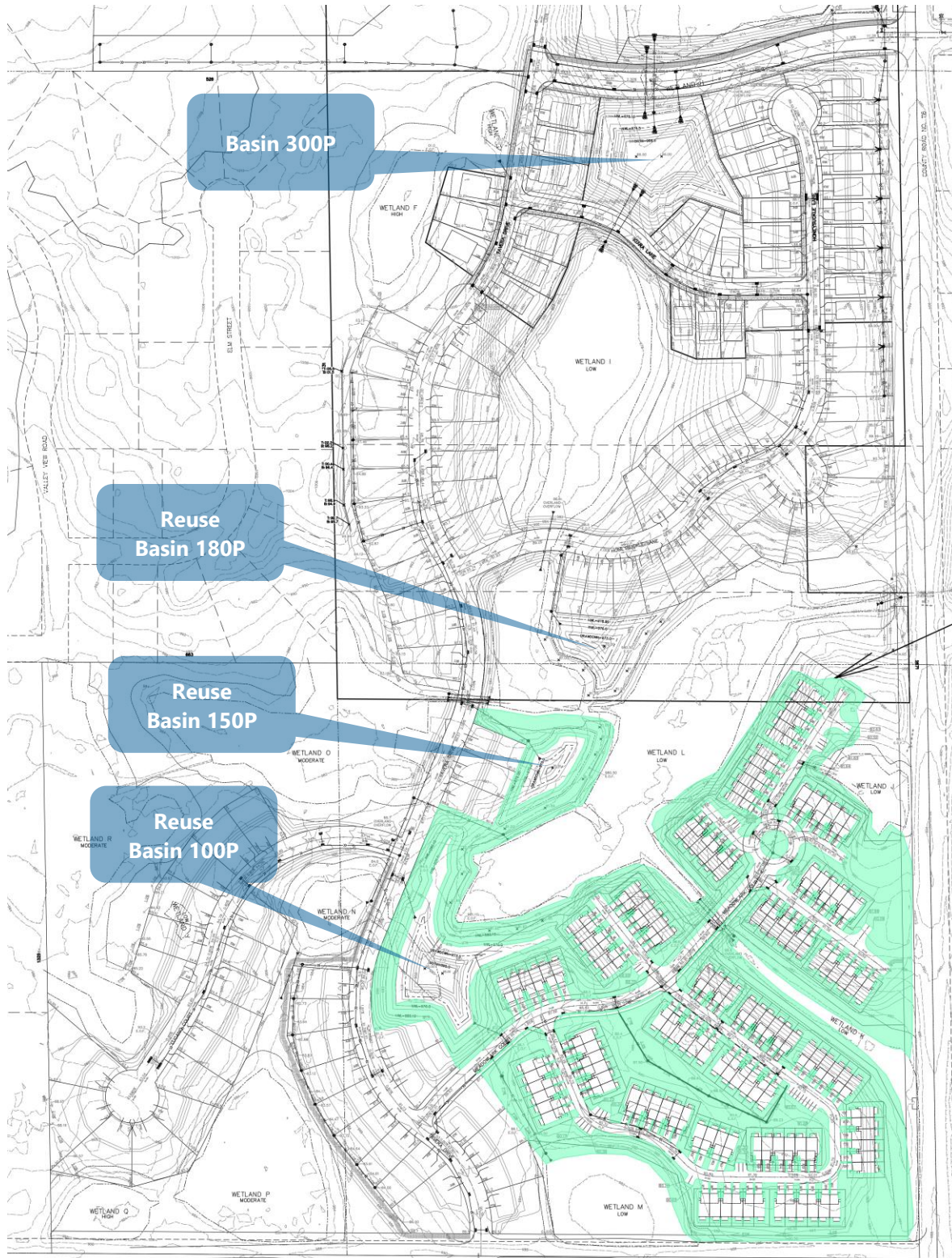


Figure 9 Phase 1 Stormwater Reuse - Irrigated Areas

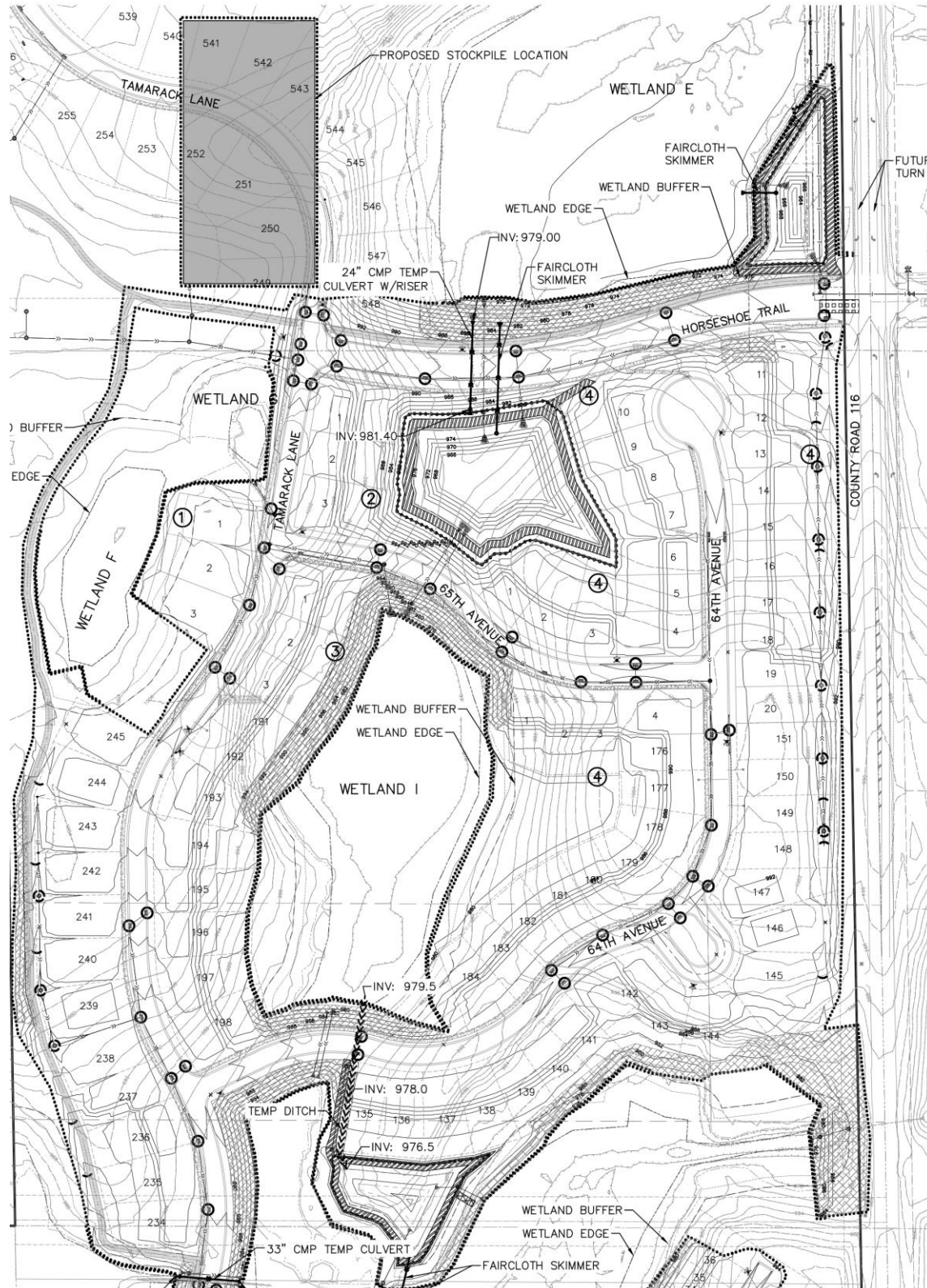


Figure 10 Phase 1 Erosion Control Plan – North Half of Site

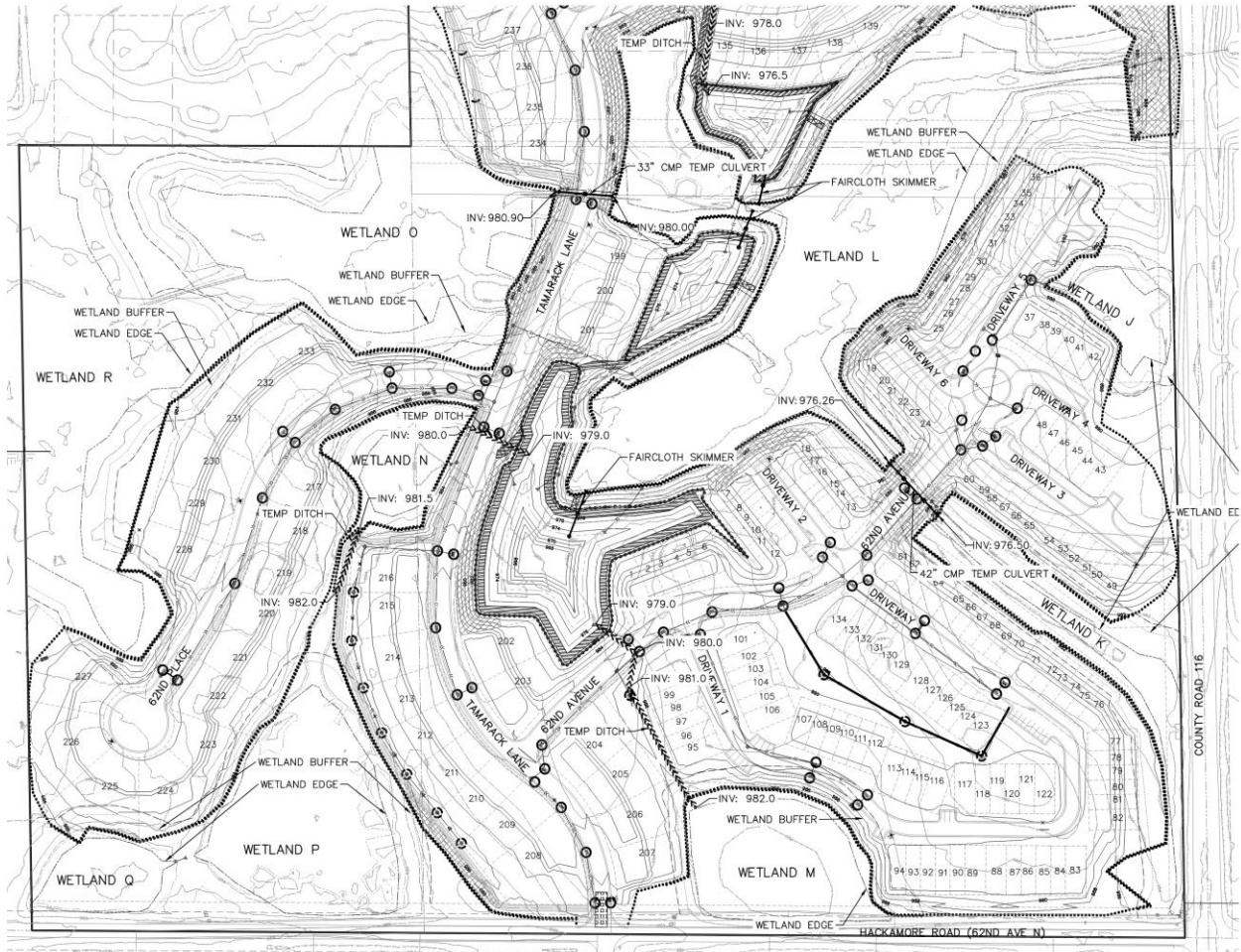


Figure 11 Phase 1 Erosion Control Plan – South Half of Site

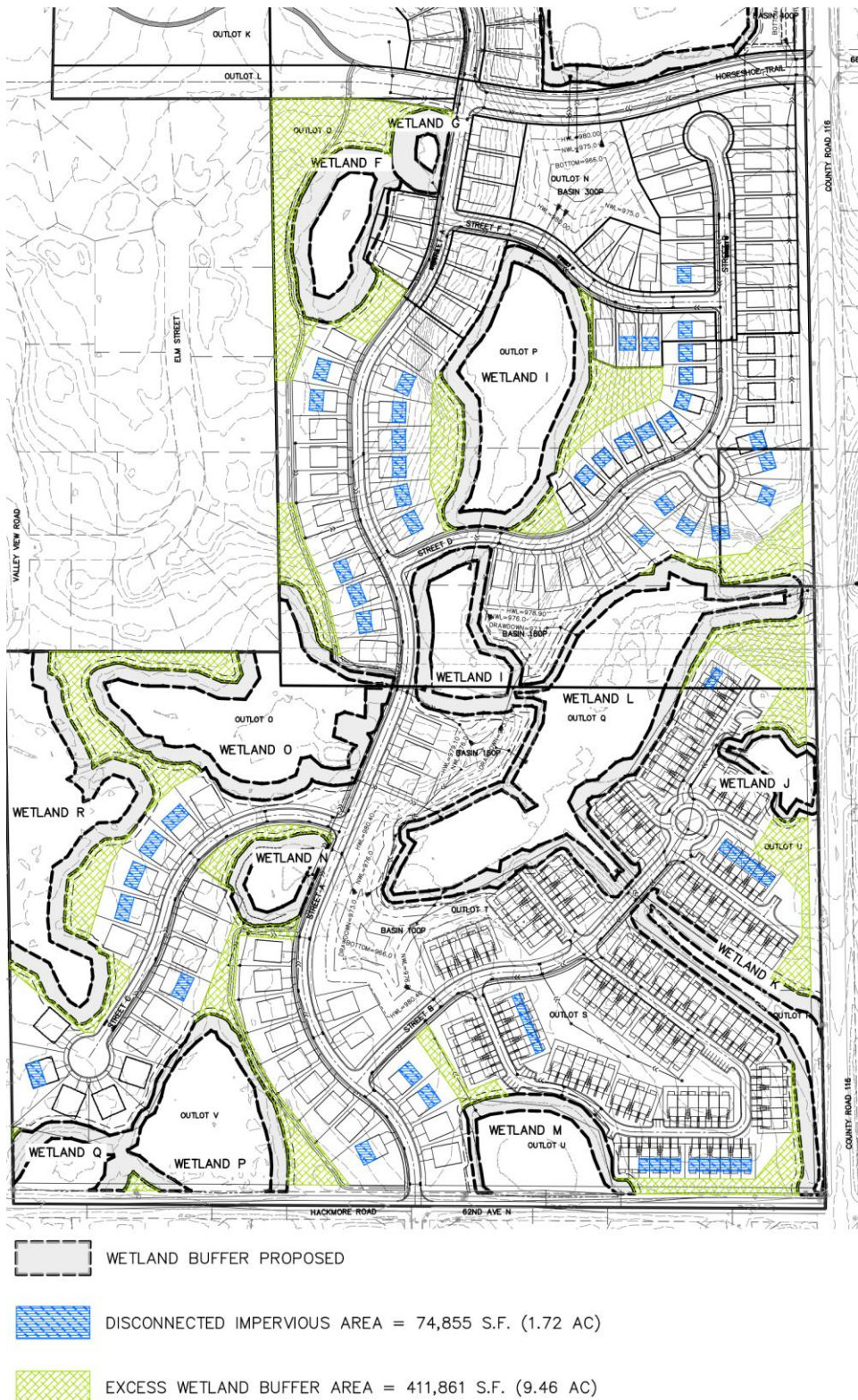


Figure 12 Phase 1 Wetland Buffers and Disconnected Impervious



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

To: Elm Creek Commissioners
From: Judie Anderson
Date: May 12, 2021 **updated**
Subject: Call for a Public Meeting – Minor Plan Amendment

The CIP spreadsheet is Table 4.5 of the Commission's Third Generation Watershed Management Plan. (Descriptions of the projects originally included on the spreadsheet are found in Appendix G of the Plan.) The CIP has been amended annually since the Plan was adopted in October 2015. When looking at the spreadsheet, items **highlighted in yellow** are CIPs which have been approved for County ad valorem levy in past years or, in the case of the year 2021, the projects being considered for County levy this year.

Beginning with the 2019 projects/payable 2020, the Commission has adjusted the final levy amounts as follows:

1. *In order to minimize the occurrence of insufficient tax settlements received from the County, five percent (5%) is added to the project cost (levy) for Commission administrative and other expenses. (Example, on line 45: \$125,000 project x 105.0% = \$131,250)*
2. *The Commission will certify 101 percent (101%) of the total project cost to cover levy shortfalls. (Therefore, \$131,250 project x 101.0% = \$132,563)*

At their May 5, 2021 meeting the Commission's Technical Advisory Committee (TAC) made the following recommendations to the Commission regarding its current Capital Improvement Program.

- A. Remove the following projects: **per Derek Asche**
 1. Line 13 Rush Creek Main Stem, Maple Grove (2021 portion)
 2. Line 14 Rush Creek South Fork, Maple Grove
 3. Line 16 DNR #27-0437, Maple Grove
 4. Line 23 Stonebridge, Maple Grove
- B. Add the following projects:
 1. Line 48 CSAH 12/Dayton River Road Ravine Stabilization, Dayton, est. cost \$382,000
Comm. Share \$95,500 **2023 project**
 2. Line 49 Tower Drive West Stormwater Improvements, Medina, est. cost \$271,250,
Comm. Share \$67,813 **2022 project**
- C. Rename/revise/add more specificity to:
 1. Line 45 Elm Road Area/Everest Lane Stream Restoration, Maple Grove, est cost \$500,000. **Comm share \$125,000 2021 project**
 2. Line 46 Corcoran City Hall Parking Lot, **revise scope of project, move to 2022.**
 3. Line 47 EC Stream Restoration Ph ~~IV~~ V Hayden Lk Outfall, est. cost \$900,000 ~~\$610,000~~
Comm share \$152,725 2021 project

D. The TAC also considered:

1. Line 50 Grass Lake wetland monitoring. Est cost \$16,000, Comm share = \$4,000
At the TAC meeting, this was deemed not to be (qualify as) a CIP and should be considered as a special project or a monitoring line item when drafting the Commission's Operating Budget. Or the scope of the project should be expanded to make it a CIP, which would include the monitoring.

ACTION: If these actions are approved by the Commission, a public meeting must be ordered to present the proposed amendment and to take comment from the member cities and the public. The purpose of the public meeting is NOT to approve going forward with any of these projects. That meeting would occur during the June 9, 2021 regular meeting of the Commission.

At the TAC meeting Staff from Wenck/Stantec described a line item which appears annually in the Shingle Creek/West Mississippi CIP – Public and Private Cost Share Projects. The TAC may want to consider this as a line item in the Elm Creek CIP. Staff will email the SC/WM Cost Share Policy to the members. See also Wenck/Stantec's May 5, 2021 memo included in the meeting packet as Item 6.a.4).