

Riley-Purgatory-Bluff Creek Watershed District

Board of Managers Regular Meeting

October 6, 2021

7:00PM Regular Meeting

Virtual Meeting via ZOOM

<https://us02web.zoom.us/j/82629916625>

Agenda

- | | |
|---|--------------------|
| 1. 7:00pm Call to Order Meeting of the Board of Managers | Action |
| 2. Approval of the agenda | Action |
| 3. Matters of public interest | Information |

Welcome to the Board Meeting. Anyone may address the Board on any matter of interest in the watershed. Speakers will be acknowledged by the President; please come to the podium, state your name and address for the record. Please limit your comments to no more than three minutes. Additional comments may be submitted in writing. Generally, the Board of Managers will not take official action on items discussed at this time but may refer the matter to staff for a future report or direct that the matter be scheduled on a future agenda.

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| 4. Reading and approval of minutes | Action |
| a. Board of Managers Regular Meeting, September 1, 2021, including September 14, 2021 Continuation | |
| 5. Citizen Advisory Committee | Action |
| a. Report | |
| b. Confirm October 18, 2021, Board CAC representative | |
| 6. Consent Agenda | |
| (The consent agenda is considered as one item of business. It consists of routine administrative items or items where discussion isn't essential to understanding. Any manager may remove an item from the consent agenda for action.) | |
| a. Accept September Staff Report | |
| b. Accept September Engineer's Report | |
| c. Accept September Construction Inspection Report | |
| d. Authorize Interim Administrator Jeffery to work with Personnel Committee to solicit candidates for the position of District Administrator | |
| e. Approve Permit 2021-046 Crossroads of Chanhassen as presented in the proposed board action section of the permit review report | |
| f. Approve Permit 2021-051 Eagle Bluff as presented in the proposed board action section of the permit review report | |

- g. Approve payment application #3 for the Duck Lake Watershed Rain Garden Construction project.

7. Action Items

Action

- a. Pulled consent items
- b. Accept August Treasurer's Report
- c. Approve paying of the bills
- d. Consider variance request from provision of compensatory storage +/- 1 foot of elevation for Permit 2020-073 Welter's Way Streambank Stabilization.
- e. Consider Permit 2020-073 Welter's Way Streambank Stabilization as presented in the proposed board action section of the permit review report.
- f. Consider variance request from minimum buffer width for Permit 2020-068 Erhart Farm.
- g. Consider Permit 2020-068 Erhart Farm as presented in the proposed board action section of the permit review report
- h. Consider Silver Lake Contract with Molnau Trucking
- i. Consider COVID Memo - LAK
- j. Consider Legal Review Memo - LAK
- k. Consider MAWD Resolutions
- l. Consider request for partnership with private property owners for repair of culvert under private drive.

8. Discussion Items

Information

- a. Attorney Report
- b. Administrator Report
- c. Manager Report

9. Upcoming Board Topics

- a. Final 2022 Budget and Levy
- b. Regulatory program

10. Upcoming Events

Information

- October 9th Cycle the Creek – Purgatory Creek
- October 18th CAC Meeting, 6pm virtual
- October 19th and 20th – MN Water Resources Conference: Josh Maxwell and Brandon Barnes will present on the 20th at 10:20AM and Joe Bischoff and Terry Jeffery will present on the 20th at 2PM
- November 3rd Board Meeting

Please check www.rpbcwd.org for the most current meeting details.

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

September 14, 2021, RPBCWD Board of Managers Special Meeting and Public Hearing

PRESENT:

Managers: Jill Crafton, Treasurer
Larry Koch
Dorothy Pedersen, Vice President
Dick Ward, President
David Ziegler, Secretary

Staff: Amy Bakkum, Administrative Assistant
Zach Dickhausen, Water Resources Technician II
Liz Forbes, Grant Coordinator
Terry Jeffery, Interim District Administrator
Mat Nicklay, Natural Resources Technician
Louis Smith, Attorney, Smith Partners
Scott Sobiech, Engineer, Barr Engineering Company

Note: this meeting was held remotely via meeting platform Zoom in abidance with state mandates in response to Covid-19.

1. Call to Order

1 President Ward called to order the Tuesday, September 14, 2021, Board of Managers Regular
2 Monthly Meeting at 9:00 a.m. The meeting was held remotely via meeting platform Zoom.
3

2. Approval of Agenda

4 Manager Crafton moved to approve the agenda as presented. Manager Pedersen seconded the
5 motion. Manager Koch commented the special meeting notice didn't list the agenda item to adopt
6 a resolution adopting the budget and levy, and for that reason, he objected to having the item on
7 the agenda. He continued by saying there is no excuse for this, and this isn't the District's first
8 rodeo. Manager Koch remarked there is no excuse for the District not having clear, concise
9 notices. He provided his opinion about the District's published notice and stated most other cities
10 and counties publish much more robust budget and levy summaries. Manager Koch reiterated his
11 objection to including the passage of a budget and levy, because he believes it was not properly
12 noticed. President Ward said Manager Koch's comments are noted.

13 Upon a roll call vote, the motion carried 4-1 as follows:

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	No
Pedersen	Aye
Ward	Aye
Ziegler	Aye

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3. Consider Approval of Proposed Fund Transfer

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Manager Koch moved to delay this item until the Board’s next meeting. The motion died due to lack of a second.

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Interim Administrator Jeffery said there are two projects he proposes funds be transferred into: The Middle Riley Creek Restoration Project and the Repair of Purgatory Creek Restoration Area Berm.

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Interim Administrator Jeffery reminded the Board the Middle Riley Creek Restoration Project bid came in at \$439,582, which is 27%-28%, or \$95,000, over the project budget. He said the District’s 2021 budget included \$192,000 for this project. Administrator Jeffery recommended three transfers to make up for the shortfall:

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- Move \$50,000 from the Lake Ann Wetland Restoration
- Move \$217,000 from Opportunity Projects
- Move \$85,000 from the Scenic Heights Project

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Interim Administrator Jeffery detailed the budget that would remain in those three line items after the fund transfers.

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Interim Administrator Jeffery said the District is partnering with the City of Eden Prairie to repair the berm in the Purgatory Creek Restoration Area. He recommended moving \$113,000 out of the District’s Repair and Maintenance Fund toward the repair costs.

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Manager Crafton moved to approve the fund transfers as presented. Manager Pedersen seconded the motion. Upon a roll call vote, the motion carried 4-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Abstain
Pedersen	Aye
Ward	Aye
Ziegler	Aye

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4. Public Hearing on Proposed 2022 Budget and Levy

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President Ward opened the public hearing. He called for comments.

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Manager Crafton moved to close the public hearing. Manager Pedersen seconded the motion.

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Upon a roll call vote, the motion carried 5-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ward	Aye
Ziegler	Aye

43

5. Approve Resolution 2021-009 Adopting the RPBCWD Proposed 2022 Preliminary Budget and Levy and Authorizing Distribution to County Auditors

44

Manager Ziegler moved to adopt resolution 2021-009 Adopting the RPBCWD Proposed 2022

45

Preliminary Budget and Levy and Authorizing Distribution to County Auditors. Manager

46

Crafton seconded the motion.

47 Manager Koch said he thinks the levy amount listed in the Resolution is different than the one
 48 in the spreadsheet and asked staff to review it. Manager Koch presented his computations and
 49 his recommendations for changes to the proposed preliminary budget and asked Interim
 50 Administrator Jeffery questions about the budget.

51 Interim Administrator Jeffery agreed with Manager Koch’s budget comment regarding the
 52 \$65,581. Interim Administrator Jeffery recommended moving \$65,581 the District’s Reserve
 53 Fund. Interim Administrator Jeffery said this action changes the reserve to \$115,581, leaves the
 54 budget and levy as stated in the Resolution, and brings the District’s Reserve Fund balance to
 55 just under \$300,000.

56 Manager Ziegler and Manager Crafton accepted as a friendly amendment the budget change
 57 recommended by Interim Administrator Jeffery, which doesn’t change the proposed 2022
 58 preliminary total budget of \$7,284,572.00 or the proposed levy of \$3,640,581 as listed in
 59 Resolution 2021-009.

60 Upon a roll call vote, the motion carried 4-0 as follows:

61

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Abstain
Pedersen	Aye
Ward	Aye
Ziegler	Aye

62

63 Interim Administrator Jeffery stated the District will hold a public information meeting at its
 64 December meeting to provide for public comment on the District’s 2022 budget and levy. He
 65 explained the Board is not required to take further action at that time regarding its budget and
 66 levy, but the Board could at that time take action to modify its 2022 budget and could take
 67 action to decrease its levy.

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6. Upcoming Events

69 President Ward announced the CAC will meet on September 20th at 5:00 p.m., and the Board’s
 70 next meeting is October 6th.

71

7. Adjournment

72 Manager Crafton moved to adjourn. Manager Ziegler seconded the meeting. Upon a roll call
73 vote, the motion carried 5-0 as follows:

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<i>Sanager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ward	Aye
Ziegler	Aye

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The meeting adjourned at 9:59 a.m.

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Respectfully submitted,

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David Ziegler, Secretary

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

September 1, 2021, RPBCWD Board of Managers Monthly Meeting

PRESENT:

Managers: Jill Crafton, Treasurer

Larry Koch

Dorothy Pedersen, Vice President

David Ziegler, Secretary

Staff: Amy Bakkum, Administrative Assistant

Zach Dickhausen, Water Resources Technician II

Liz Forbes, Grant Coordinator

Terry Jeffery, Interim District Administrator and Watershed Planning Manager

Eleanor Mahon, Education and Outreach Coordinator

Josh Maxwell, Water Resources Coordinator

Louis Smith, Attorney, Smith Partners

Scott Sobiech, Engineer, Barr Engineering Company

Other attendees: Robert Erickson

Ray Newman

Elizabeth Henley

Gretchen Schroder

Eleanor Mahon

Jeff Weiss

Note: this workshop and meeting were held remotely via meeting platform Zoom in abidance with the District's procedures in response to state COVID-19 actions, mandates, and guidance.

1. Call to Order of the Regular Meeting of the RPBCWD Board of Managers

1 Vice President Pedersen called to order the Wednesday, September 1, 2021, Board of
2 Managers Regular Meeting at 7:00 p.m. The meeting was held remotely via meeting
3 platform Zoom.

4 Manager Koch commented on the order of proceeding. He said the Board should adopt
5 the agenda prior to the swearing in of managers Koch and Crafton. There was a response
6 by Attorney Smith on why the District ordered its agenda as presented and noted the
7 Board can act to revise its agenda. The managers discussed the points raised. Manager
8 Ziegler moved to proceed with the swearing in of managers Crafton and Koch prior to the
9 approval of the agenda. Manager Crafton seconded the motion. Upon a roll call vote, the
10 motion carried 3-1 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	No
Pedersen	Aye
Ziegler	Aye

13

2. Swearing in of Managers Crafton and Koch

14 Attorney Smith led Larry Koch and Jill Crafton through the oath of office of manager of the Riley
15 Purgatory Bluff Creek Watershed District. Vice President Pedersen congratulated managers
16 Crafton and Koch on their reappointment to the Board.

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3. Approval of Agenda

18 Manager Ziegler moved to approve the agenda as written. Manager Crafton seconded the motion.
19 Manager Koch requested removing Consent Agenda items 7a-7g, and 7i, moving 9a to become
20 8f, moving 9c1 to 8g, moving 9c3 to 8h, 9d1 to 8i, and 9d3 to 8j.
21 Manager Crafton moved to amend the motion. Manager Koch seconded the motion. Upon a roll
22 call vote, the motion failed 2-2 as follows:

23

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	No
Ziegler	No

24

25 There was discussion to clarify the items removed from the Consent Agenda.

26 Upon a roll call vote, the motion to approve the agenda carried 3-1 as follows:

27

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	No
Pedersen	Aye
Ziegler	Aye

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4. Matters of General Public Interest

30 Mr. Robert Erickson said he is speaking as a representative of Megan Doyle, resident on Dell
31 Road. He said he had a conversation with Interim Administrator Jeffery and Engineer Sobiech
32 regarding a culvert crossing, noting this crossing lacks a public easement. Mr. Erickson stated the
33 condition of the culvert has been evaluated by Barr Engineering, and he is pursuing resolution on
34 behalf of property owner Megan Doyle regarding the conditions and possible construction. He
35 said the property owner is willing to provide permanent easements at no cost for the Riley Creek
36 culvert and which would require participation by the City of Eden Prairie. Mr. Erickson pointed
37 out the City of Eden Prairie has ownership but not an easement. He said the culvert work could
38 possible be included in the City’s project for Dell Road in 2022 or 2023. Mr. Erickson expressed
39 gratitude for the cooperation of the District staff thus far.

40 Manager Koch asked the Board to direct Interim Administrator Jeffery to bring him up to speed
41 on communications with Mr. Erickson and asked Interim Administrator Jeffery if he needs
42 direction from the Board. Interim Administrator Jeffery recommended putting this topic on the
43 agenda for the Board’s next meeting. The Board agreed by consensus for staff to report on this
44 issue at the Board’s next meeting.

5. Reading and Approval of Meeting Minutes

45 **a. August 4, 2021, RPBCWD Board of Managers Workshop and Regular Meeting,**
46 **Including August 12th Continuance**
47 Manager Ziegler moved to approve the minutes of the August 4th Board of Managers
48 Workshop and Regular Meeting including the August 12th meeting continuance. Manager
49 Crafton seconded the motion. Manager Ziegler requested the following edits: line 238
50 revise to state “forwarded,” line 338 remove the s and the word “to,” line 529 to indicate
51 Manager Koch voted against the amended motion, line 78 to “Manager Ziegler agreed to
52 the changes recommended by Legal Counsel” and “Manager Pedersen seconded the
53 motion.” Manager Crafton requested line 95 to be revised to remove the repeated words
54 “study to allow”, line 160 delete the word “along,” and on line 238 to insert the word
55 “asked,” Manager Koch stated on page 8, line 230, the word pursuing should be corrected
56 to “pursued.” Attorney Smith said the meeting reference on line 301 should state the June

57 meeting. Manager Crafton requested the word “even” be inserted into the sentence on
58 lines 512-513. Managers Ziegler and Crafton accepted the friendly amendments.

59 Upon a roll call vote, the motion carried 4-0 as follows:

60

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

61

6. CAC

62 Mr. Jeff Weiss reported on the CAC’s August 16th meeting, noting the CAC passed a resolution
63 requesting Interim Administrator Jeffery present to the CAC about the District’s permit
64 application and review processes and the District’s rules. Mr. Weiss described the ways the CAC
65 would like to be involved in future watershed activities. The Board agreed by consensus that
66 Interim Administrator Jeffery should conduct the presentation to the CAC as the CAC requested
67 in its motion. Manager Ziegler said he will attend the CAC’s next meeting, which is September
68 20th, as the Board representative.

69

7. Consent Agenda

70 Manager Crafton moved to accept the Consent Agenda as amended earlier in the meeting.
71 Manager Ziegler seconded the motion. The Consent Agenda included item 7h - Approve Permit
72 2021-061 Goddard School Redevelopment as Presented in the Proposed Board Action Section of
73 the Permit Review Report.

74 Upon a roll call vote, the motion carried 4-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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8. Action Items

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a. Items Pulled from Consent Agenda

i. Accept August Staff Report

Manager Koch raised many points, including asking staff to ensure the District calendar meets all requirements of state statute, that the minutes of the August 4th Personnel Committee get disseminated, asking for more information about the conversation with North Risk Partners and asked staff to provide more information at the Board’s next meeting about the services they provide, asked if MAWD has made its annual call for resolutions, noting he would be in favor of proposing a resolution that watersheds could continue to hold Zoom meetings, and asked for more information about the Carver County process ED & A on Lotus Lake . He brought up many other issues such as lake vegetation plans, mapping wetlands, and using drones to measure impacts. Staff provided information and indicated when additional information will be provided to Manager Koch and presented to the Board.

Manager Koch moved to accept the staff report. Manager Ziegler seconded the motion.

Upon a roll call vote, the motion carried 4-0 as follows:

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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ii. Accept August Engineer Report

Manager Koch asked if staff time is being tracked and being billed back to applicants. Engineer Sobiech said from the engineering side, yes. He described the process. Manager Koch moved to accept the Engineer’s Report. Manager Crafton seconded the motion. Upon a roll call vote, the motion carried 4-0 as follows:

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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iii. Accept August Construction Inspection Report

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Manager Koch requested staff put this report on its own page, and he asked the report to include a list of actions taken, which will help build a record of non-compliant parties. Manager Koch raised his concerns about his neighbor’s rip rap and other projects he has noticed around Lotus Lake including a sand blanket.

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Manager Koch moved to accept the August Construction Report. Manager Ziegler seconded the motion. Upon a roll call vote, the motion carried 4-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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iv. Authorize Interim Administrator Jeffery to Draft Job Description and Announcement for the District Administrator Position, Bring to Personnel Committee for Review and Approval, and Advertise for Position

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Manager Koch moved that Mr. Jeffery work with staff and the Personnel Committee to come up with a job description for the District Administrator and a proposed advertisement and to bring to the managers for consideration and approval and that Mr. Jeffery continue as Interim Administrator until such time as he would resign, or the Board appoints his replacement. Manager Ziegler seconded the motion. Upon a roll call vote, the motion carried 4-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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v. Approve Permit 2018-066 Castle Ridge Modifications as Presented in the Proposed Action Section of the Permit Review Report

Engineer Sobiech displayed slides about the permit modification, noting it is a complicated permit modification request. He provided history about the District’s October 2019 conditional approval of permit 2018-066. Engineer Sobiech went through the request and the District Engineer’s review in detail. He went through the compliance summary, and he called out two stipulations, including the maintenance declaration would need to be revised and additional financial assurance would need to be provided .

The managers discussed the project, the permit modification request, the District’s rules, and their concerns about infiltration and the increase in impervious surface area and runoff. Attorney Smith reminded the Board it needs to apply the District’s rules to the judgement in front of it, and the District Engineer’s recommendation is this project complies with the District’s rules, so the Board has no basis on which to deny the permit. Manager Crafton wondered if the District’s rules are strong enough.

Manager Koch moved to accept the Engineer’s report and adopt the resolution set forth in that report. Manager Ziegler seconded the motion. The managers agreed by consensus it needs to revisit the District’s rules. Attorney Smith asked for clarification on the date through which the permit is being extended. Engineer Sobiech said the permit was set to expire in 2022, and the applicant requested a two-year extension, so the two-year extension will be through 2024. Attorney Smith asked Engineer Sobiech if both condition 2E and 2F are required as listed on page 14 of the Engineer’s Report. Engineer Sobiech said 2E can be removed because 2F covers it. Manager Koch said he prefers 2E, and Engineer Sobiech said its fine to remove 2F. Manager Koch moved to amend his motion to adopt the Engineer’s recommendations except not agreeing to item 2F. Manager Ziegler agreed to the friendly amendment.

Upon a roll call vote, the motion carried 3-0 as follows:

<i>Manager</i>	<i>Action</i>
Crafton	Abstain
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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161

vi. Approve Permit 2021-049 Foxford Shoreline Maintenance as Presented in the Proposed Board Action Section of the Permit Review Report

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Manager Koch asked Engineer Sobiech to review the permit review and to describe the diagram indicating where the rip rap and the sand blanket will go. Interim Administrator Jeffery and Engineer Sobiech responded to Manager Koch’s questions about slope, pitch, and BMPs to minimize erosion of the sand blanket.

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Manager Koch moved to accept the Engineer’s Report and adopt the resolution set forth in the Engineer’s report. Manager Crafton seconded the motion. Upon a roll call vote, the motion carried 4-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

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174

vii. Approve Permit 2021-054 Morimoto City Homes as Presented in the Proposed Board Action Section of the Permit Review Report.

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176

Manager Koch asked for an overview of the proposed project and permit review and asked for information about the rate controls and how reductions in total suspended solids and total phosphorus are calculated. Engineer Sobiech provided the information. Manager Koch moved to accept the Engineer’s Report and adopt the resolution set forth in the Engineer’s report. Manager Crafton seconded the motion.

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Upon a roll call vote, the motion carried 4-0 as follows:

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<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

184

185 **viii. Approve Contract with Smith Partners and Authorize President**
 186 **Ward to Sign**

187 Manager Koch said he would like to see the contract or some acknowledgement
 188 that the District has 60 days from the date of presentation to pay the Smith
 189 Partners invoices, that Smith Partners will track its time by matter so the time
 190 can be appropriately charged back to the appropriate permit, and that an
 191 explanation of the travel details be footnoted. Attorney Smith accepted Manager
 192 Koch’s recommendations.

193 Manager Koch moved to approve the legal services agreement between the
 194 District and Smith Partners with the change that Smith Partners will track
 195 permit time on a permit by permit basis and will provide the District 60 days to
 196 pay the Smith Partner invoices. Manager Crafton seconded the motion.
 197 Manager Ziegler made the friendly amendment to authorize President Ward to
 198 sign the contract. Managers Koch and Crafton accepted the friendly
 199 amendment.

200 Upon a roll call vote, the motion carried 4-0 as follows:

201

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

202

203 **b. Accept July Treasurer’s Report**

204 Manager Crafton stated the report has been reviewed in accordance with internal
 205 controls and procedures. She moved to accept the Treasurer’s Report. Manager Ziegler
 206 seconded the motion. Manager Koch stated he has an issue with recording items as the

207 vendor being the credit card as opposed to the actual vendor because he doesn't think it
 208 is an appropriate accounting practice. He called out the late charge listed on the credit
 209 card bill, and Interim Administrator Jeffery explained the routing number error.
 210 Manager Koch said in the internal report, sometimes staff are specifically allocated to
 211 line items but not in the budget. He asked if this could be addressed in the budget
 212 discussion. Manager Koch asked if there are any line items with potential overages.
 213 Interim Administrator Jeffery said not as of today, but staff will be coming back in
 214 October with account transfer recommendations for projects including Middle Riley
 215 Creek and St. Hubert. Manager Koch asked that the information be ready by September
 216 14th.

217 Upon a roll call vote, the motion carried 4-0 as follows:
 218

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

219
 220 **c. Approve Paying of Bills**
 221 Manager Crafton moved to pay the bills. Manager Ziegler seconded the motion.
 222 Manager Koch asked about the Pulte Homes disbursement. Interim Administrator
 223 Jeffery said it was an escrow release for its projects in Chanhassen. Upon a roll call
 224 vote, the motion carried 4-0 as follows:
 225

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

226
 227 **d. Consider Professor Ray Newman's Request for District Funding on Aquatic**
 228 **Vegetation Management**
 229 Interim Administrator Jeffery introduced Professor Ray Newman from the University of
 230 Minnesota, noting the District has received a proposal from him, and he will present
 231 about past work and the proposal.

232 Professor Newman shared slides and presented about the proposed continuation of work
 233 on the restoration and maintenance of native macrophytes in lakes in the RPBCWD
 234 watershed, highlighting the importance of macrophytes to water clarity. He presented
 235 results of work completed and discussed the proposed university involvement. Professor
 236 Newman responded to the managers’ questions.

237 Vice President Pedersen said the Board’s consensus is that it would like to receive a
 238 more detailed proposal, and the Board will discuss the proposal and will communicate
 239 back with Professor Newman.

240

241 **e. Consider Budget Modification Request for Barr Construction Management**
 242 **Services for Pioneer Wetland Restoration**

243 Interim Administrator Jeffery and Engineer Sobiech described the reason behind the
 244 budget modification request . Manager Crafton moved to approve the budget
 245 modification request for Barr Engineering construction management services for the
 246 Pioneer Wetland Restoration project. Manager Ziegler seconded the motion.

247 Manager Koch asked how much of the \$22,000 will be needed to perform the post-
 248 construction work. Engineer Sobiech said \$6,000, which is \$2,000 per year for three
 249 years. Manager Koch expressed his concerns with projects exceeding estimates, and he
 250 emphasized the District’s need for good estimates.

251 Manager Koch moved to approve \$16,000 for this task order and to come up with a new
 252 task order for post-construction services at an amount not to exceed \$6,000 and to
 253 authorize Interim Administrator Jeffery with advice of Legal Counsel to review and
 254 execute it. The motion died due to lack of a second.

255 Upon a roll call vote, the motion on the table carried 3-0 as follows:

256

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Abstain
Pedersen	Aye
Ziegler	Aye

257

9. Discussion Items

258 **a. 2022 Preliminary Budget**

259 Interim Administrator Jeffery announced the proposed levy for 2022 is a 1.8% increase
 260 over the District’s 2021 levy. He went through changes to the proposed budget compared

261 to the last time the budget was presented and talked about proposed fund transfers.
262 Interim Administrator Jeffery said transfers include moving \$113,000 from the repair and
263 maintenance fund to be applied to the berm work at the Purgatory Rec area in Eden
264 Prairie – which will be a 50-50 match with the City, and he noted the proposal to move
265 \$217,000 from the opportunity fund to Middle Riley Creek. He noted a couple of other
266 proposed transfers.

267 There was discussion about anticipated 2022 permit fees and grant income. Manager
268 Koch said he needs more information on staffing costs and asked Interim Administrator
269 Jeffery to use the methodology Manger Koch provided. Manager Koch talked about how
270 the budget and the audit need to be consistent with each other. He said he wants to make
271 sure the estimates for the projects are good numbers and to make sure there is enough
272 budget to pay for those projects. Manager Koch provided his recommendations on how to
273 present the costs per line item.

274 Vice President Pedersen said she is hearing that the managers are fine with the 1.8% levy
275 increase. The managers indicated consent with her statement.

276 **b. Attorney Report**

277 Attorney Smith said regarding MAWD resolutions, other watersheds are talking about the
278 Open Meeting Law and virtual meetings, and the District could collaborate with other
279 watersheds and will want to address this before October 4th. Attorney Smith said he could
280 talk with Manager Koch about this topic as a possible MAWD resolution. Manager
281 Crafton asked Interim Administrator Jeffery to find out what other watersheds are
282 discussing regarding this topic.

283 **c. Administrator Report**

284 **1. Regulatory Program**

285 **i. Potential Revisions**

286 Interim Administrator Jeffery recommended a District workshop on the
287 District’s rule program and permits. The Board directed Interim
288 Administrator Jeffery to send out an email to the Board to collect ideas
289 about rules changes.

290 **ii. After the Fact Permits**

291 Manager Koch said he would like staff to follow through on the four
292 permit issues he previously discussed. Interim Administrator Jeffery said
293 he will provide an update at next month.

294 **2. Data Collection**

295 Interim Administrator Jeffery said he addressed this topic during the budget
296 discussion.

297

298 **3. COVID Policy**

299 Interim Administrator Jeffery said staff is working to update the District's
300 COVID policy. Manager Koch asked staff to bring this topic back to the Board at
301 its next meeting.

302 **4. Riley Creek Erosion at Frederick Miller Spring**

303 Interim Administrator Jeffery said there has been discussion about how to
304 mitigate foot traffic and address the erosion in that area. Manager Crafton asked if
305 there would be a benefit to adding bank pins. Interim Administrator Jeffery said
306 yes. Manager Koch said he would like staff to bring recommendations to the
307 Board. The Board indicated consensus with Manager Koch's request to staff.

308

309 **d. Managers' Report**

310 **1. Data Practices Requirements**

311 Manager Koch said he has made a number of data requests, some of which date
312 back many months. He said the District doesn't have the policies on data
313 practices, and this is a serious issue because the District needs to make sure it
314 follows the law. He asked to be provided the District's policies or asked the
315 District to draft them.

316 **2. Greater MN Checklist from BWSR**

317 Manager Koch said the District is supposed to do a report card each year, and the
318 District should either do its own report card or the Greater MN check list.

319

10. Upcoming Board Topics

320 Vice President Pedersen stated the upcoming Board topics are listed on the meeting
321 agenda.

322

11. Upcoming Events

323 Vice President Pedersen noted the upcoming events are listed on the meeting agenda.

324

12. Adjournment

325 Manager Crafton moved to adjourn the meeting. Manager Ziegler seconded the motion.
326 Upon a roll call vote, the motion carried 4-0 as follows:

327

<i>Manager</i>	<i>Action</i>
Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye

328

329

The meeting adjourned at 10:22 p.m.

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Respectfully submitted,

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David Ziegler, Secretary

RPBCWD September Staff Report

Administration		Staff update	Partners
Accounting, Audit, and Budget	Coordinate with Accountants for the development of financial reports. Coordinate with the Auditor. Continue to work with the Treasurer to maximize on fund investments.	Staff Bakkum and Interim Administrator Jeffery compiled the monthly treasurer's report. Interim Administrator Jeffery sent form of agreement to Redpath and Abdo.	
Administration		Interim Administrator Jeffery and Engineer Sobiech met to evaluate regulatory program in anticipation of future conversations with the Board of Managers.	
Annual Report & Communication	Compile, finalize and submit an annual report to agencies.	Staff Mahon has begun creating the 2022 calendar that will serve as the 2021 Annual Communication and is compiling quotes from local printers.	
DEI	Diversity, Equity, and Inclusion	No changes	
Human Resources	General Human Resources	No changes.	
Internal Policies	Work with Governance Manual and Personnel Committees to review bylaws and manuals as necessary.	No changes	
Advisory	Engage with the Technical Advisory Committee on water conservation, chloride management and emerging topics. Engage with the Citizen Advisory Committee on water conservation, annual budget and emerging topics.	The CAC will tour Riley Creek restoration sites on October 18 (postponed due to weather from September 20). The next regular meeting of the CAC will be on November 15. There is no scheduled TAC meeting.	

Local SWMP		No changes.	
MAWD		If there are resolutions	
District-Wide			
Regulatory Program	<p>Review regulatory program to maximize efficiency.</p> <p>Engage Technical Advisory Committee and Citizen Advisory Committee on possible rule changes.</p> <p>Implement a regulatory program.</p>	<p>Five applications for a permit have been received since the September meeting.</p> <p>Four permits has been administratively approved since the September meeting. One for the construction of an earthen berm on private property the other three for routine municipal maintenance.</p> <p>Two permits will be expiring in 30 days. Notification will be sent to those permit holders.</p>	

Aquatic Invasive Species	<p>Review AIS monitoring program.</p> <p>Develop and implement Rapid Response Plan as appropriate Coordinate with LGUs and keep stakeholders aware of AISmanagement activities.</p> <p>Manage and maintain the aeration system on Rice Marsh Lake.</p> <p>Riley Chain of Lakes Carp Management.</p> <p>Purgatory Chain of Lakes Carp Management.</p> <p>Review AIS inspection program.</p> <p>Keep abreast in technology and research in AIS.</p> <p>Zebra mussel adult and veliger monitoring.</p>	<p>Staff has nearly completed regular carp monitoring for 2021. Only one electrofishing survey for Lake Ann and Staring Lake remains. Staff will likely conduct one or two more electrofishing surveys on Lake Susan Park Pond as some Young of the Year carp were captured via trap netting. Overall, adult carp numbers appear to have remained low across the district with only isolated individual YOY captured. More comprehensive information will be provided in the end of the year water resources report.</p> <p>Staff will likely conduct a curly-leaf pondweed turion (seed) survey this month to assess the reproductive potential for next year. This was recommended at the last Riley/Purg Summit at the beginning of the year.</p> <p>Staff will likely pull adult zebra mussel monitoring plates this month and coordinate with adopt a dock volunteers.</p> <p>The aeration unit on Rice Marsh Lake was pulsed this month at appears to be ready for the</p>	<p>City of Chanhassen</p> <p>City of Eden Prairie</p> <p>University of Minnesota</p> <p>MN DNR</p> <p>Carver County</p>
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		winter.	
Cost-Share	<p>Schedule and coordinate site visits.</p> <p>Review applications and recommend implementation.</p> <p>Evaluate program.</p>	<p>Fifteen cost-share projects were completed in 2021. Twelve projects remain active. Six other projects have been tentatively approved and are in the grant agreement setup phase. Five initial site visits and seven close-out site visits were completed in September 2021. The 2021 Watershed Stewardship Grant application season closes on October 31. Staff Forbes met with Houston Engineering to discuss potential for a grant management system similar to what RPBCWD uses for the permit program.</p>	<p>Carver County Soil and Water Conservation District</p>
Data Collection	<p>Continue Data Collection at permanent sites.</p> <p>Watershed Outlet Monitoring Program.</p> <p>Identify monitoring sites to assess future project sites.</p> <p>Water Level Sensors</p>	<p>WOMP stations: samples were collected 3 times this month for the Metropolitan Council. Staff conducted two regular stream sampling events and two regular lake sampling events this month.</p> <p>A total of 4 stormwater ponds are being monitored biweekly to add to the District's and partners stormwater pond work to understand and improve function of the ponds. Staff have placed and been visiting three auto</p>	<p>Metropolitan Council</p> <p>City of Eden Prairie</p> <p>University of MN</p> <p>City of Chanhassen</p> <p>MNDNR</p>

		<p>sampling stations this year: Site B5 - Bluff Creek/Hwy 5. Site LL_7 - West Lotus Lake North Tributary. Site STL_17 – Purgatory Creek/Staring Lake Parkway. These stations were placed to collect more storm event nutrient and flow data to assess/confirm upstream loading for the proposed upcoming project sites. Limited rainfall has limited the data being collected at these stations this year. Field data was collected for the MNDNR Score Your Shoreline Assessment and the Erosion Intensity Worksheet for Lake Lucy, Lake Ann, Lake Susan, and Lotus Lake. Staff will complete the scoring via desktop review and GIS. Staff have been visiting lake level sensors monthly to download data and ensure they are working correctly. The Lake McCoy and Round Lake radar unit was reinstalled as water levels receded to the point that the units were not in the water. Staff also were able to assess the accuracy/precision of the historical benchmarks used to set lake level sensors every year with the District’s Trimble survey equipment. Staff will complete a workup and work with the DNR to correct some of the discrepancies. Staff may also have some benchmarks re-surveyed if large discrepancies exist. Riley, Rice Marsh, and Susan will have sediment cores collected for alum application and/or evaluation in October. Staff will conduct the coring and coordinate the lab processing. Staff have accepted 8 service learners from the University of Minnesota this month and many have already been out in the district assisting staff. Six will be/are assisting Data Collection and two will be assisting Ed and Outreach/Art.</p>	<p>City of Minnetonka</p>
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		Community Engaged Learning students must complete 20 hours of service to an organization to receive full credit for their class.	
District Hydrology and Hydraulics Model	<p>Coordinate maintenance of Hydrology and Hydraulics Model.</p> <p>Coordinate model update with LGUs if additional information is collected.</p> <p>Partner and implement with the City of Bloomington on Flood Evaluation and Water Quality Feasibility.</p>	District Staff, Barr Engineering, and Eden Prairie will be updating the District’s stormwater model for both Purgatory Creek and Riley Creek. District staff have installed and checked monitoring equipment monthly in the Upper Purgatory Creek Recreational Area, Bren Pond, Eden Lake, and three additional ponds. Three stream units were also installed on Purgatory Creek. This data will be used for model validation.	<p>City of Bloomington</p> <p>City of Minnetonka</p> <p>City of Eden Prairie</p> <p>City of Deephaven</p> <p>City of Shorewood.</p>
Education and Outreach	<p>Implement Education & Outreach Plan, review at year end.</p> <p>Manage partnership activities with other organizations.</p> <p>Coordinate Public Engagement with District projects.</p>	<p>Staff Bakkum continues to receive inquiries via the District website “Contact Us” form.</p> <p>Interpretative signage was installed at the office gravel beds to illustrate the benefits of trees and the connection between water quality and deep roots.</p> <p>District Staff are finalizing the route stops for Cycle the Creek on October 9th. T-shirts have been ordered and lunch will be provided to riders at the pavilion afterwards.</p> <p>Staff Mahon stationed a table at the Eden Prairie GIVE Gathering Volunteer Fair alongside Nine Mile Creek WD to recruit community members for our volunteer opportunities.</p> <p>Staff Mahon has begun recruitment efforts for the 2022 class of Minnesota Water Stewards.</p> <p>Staff Mahon is putting together learning topics to add to the website.</p> <p>Staff Forbes, Staff Mahon and Interim Administrator Jeffery developed a postcard</p>	<p>Adopt a drain: City of Eden Prairie, City of Minnetonka, City of Bloomington, City of Eden Prairie Hamline University, Nine Mile Creek Watershed District, MPCA, Fortin Consulting</p> <p>City of Chanhassen</p>

		mailing for lakeshore property owners (Lotus, Susan, Riley) that went out in early October. The postcard encourages best practices and include an address to a new District webpage with more information.	
Groundwater Conservation	Work with other LGUs to monitor, assess, and identify gaps. Engage with the Technical Advisory Committee to identify potential projects. Develop a water conservation program (look at Woodbury model).	The CAC has passed a motion requesting that the Board of Managers direct staff to begin inventorying springs and seeps in the District and populate the DNR Spring and Seep Inventory Database. With the hire of Staff Mahon and Staff Forbes it is anticipated that the District will begin work on this initiative again.	Metropolitan Council City of Eden Prairie City of Shorewood City of Bloomington City of Minnetonka City of Chanhassen
Lake Vegetation Management	Work with the University of Minnesota or Aquatic Plant Biologist, Cities of Chanhassen and Eden Prairie, lake associations, and residents as well as the Minnesota Department of Natural Resources on potential treatment. Implement herbicide treatment as needed. Secure DNR permits and contracts with herbicide applicators. Schedule regularly scheduled point intercept surveys. Work with Three Rivers Park District for Hyland Lake.	District and Eden Prairie staff met to discuss options with the Mitchell Lake Vegetation Management Plan. This information was also discussed at the Mitchell Lake Association meeting this month. Staff will likely conduct a curly-leaf pondweed turion (seed) survey this month to assess the reproductive potential for next year. This was recommended at the last Riley/Purg Summit at the beginning of the year.	City of Eden Prairie City of Chanhassen University of Minnesota MNDNR
Opportunity Projects	Assess potential projects as they are presented to the District.	St Hubert project is substantially complete.	Chanhassen St Hubert School

Total Maximum Daily Load	Continue working with Minnesota Pollution Control Agency on the Watershed Restoration and Protection Strategies (WRAPS). Engage the Technical Advisory Committee.	No new updates	MPCA
Repair and Maintenance Grant	Develop and formalize grant program.	No change	
University of Minnesota	Review and monitor progress on University of Minnesota grant. Support Dr John Gulliver and Dr Ray Newman research and coordinate with local partners. Keep the manager abreast to progress in the research. Identify next management steps.	Along with completing an additional year of monitoring on the iron filing ponds, the U of MN has a new project funded by the Local Road Research Board to study wetlands (historic/converted to pond) and have been conducting in situ monitoring and laboratory studies with sediment cores on a pond in Shorewood and Chanhassen.	Stormwater ponds partners: Bloomington, Chanhassen, Eden Prairie, Minnetonka, Shorewood, U of MN,

Watershed Plan	Review and identify needs for amendments.	No changes	
Wetland Conservation Act (WCA)	Administer WCA within the Cities of Shorewood and Deephaven. Represent the District on Technical Evaluation Panel throughout the District.	No WCA applications have been received in Deephaven. No WCA applications have been received in Shorewood.	City of Shorewood City of Deephaven City of Chanhassen City of Eden Prairie MCWD BWSR DNR ACOE
Wetland Management	Assess known existing wetlands, identify previously unknown wetlands, identify wetlands for potential restoration/ rehabilitation and wetlands requiring additional protection.	Staff Jeffery, Staff Dickhausen and staff Nicklay continue updating the MNRAM Access database. Staff Dickhausen and Interim Administrator Jeffery are continuing to develop biological assessment metrics of wetlands with Barr Engineering staff to supplement District MNRAM assessments. Staff Dickhausen with minor help from Interim Administrator Jeffery submitted WCA and ACOE permit applications along with delineation reports for District projects and secured permissions.	City of Chanhassen City of Eden Prairie Hennepin County Carver County MNDNR BWSR USFWS
Hennepin County Chloride Initiative	Phase 1: Develop a plan to target commercial and association-based sources or chloride pollution - businesses, malls, HOAs, property management companies and the private applicators that they hire. We will hire a consultant to facilitate focus groups with private applicators, as well as those that execute contracts with private applicators. These focus groups will help identify needs and barriers for our target audience. The	The HCCI large group met on Sept 20 to discuss the chloride management plan template and proposal to use a professional marketing firm to develop outreach materials for a segment of property managers.	

	consultant will compile information into a plan for implementation.		
Lower Minnesota Chloride Cost-Share Program	The Lower Minnesota River Watersheds are coming together to offer cost-share grants.	Chloride Reduction cost-share grant remains open and is posted on District website and advertised through Fortin Consulting and the MPCA. Reimbursement funds were released to the City of Chaska for the refurbishment of a snowplow with segmented blades.	LMRWD, RBWMO, NMCWD
Bluff Creek One Water			
Bluff Creek Tributary Restoration	Implement and finalize restoration. Monitor Project.	No new updates.	City of Chanhassen
Wetland Restoration at Pioneer and 101	Remove 3 properties from flood zone, restore a minimum 7 acres and as many as 16 acres of wetlands, connect public with resources, reduction of volume, rate, pollution loads to Bluff Creek.	Work has begun at the site with vegetation management on the site.	City of Chanhassen MN DNR Carver County
Riley Creek One Water			
Lake Riley Alum	Continuing to monitor the Lake.	Coring will occur in the fall of 2021 to assess the effectiveness of the alum application. Summer monitoring has been completed.	

Lake Susan Improvement Phase 2	Complete final site stabilization and spring start up. Finalize and implement E and O for the project. Monitor project.	There have been issues with the priming of the iron sand filter system which has led to gaps where the system is not online. District staff had a productive meeting with the city and contractor to address this issue moving forward. An Enviro DIY station has been placed in the unit to better assess when the unit is running.	City of Chanhassen Clean Water Legacy Amendment
Lake Susan Spent Lime	2021 startup and monitoring.	The unit was turned on in May and an Enviro DIY unit was placed to monitor water levels. Samples are being collected nearly once a week or more. The unit appears to be working well with removals over 50%. Staff will likely take the system offline in October.	City of Chanhassen
Lower Riley Creek Stabilization	Coordinate agreement and acquire easements if needed for the restoration of Lower Riley Creek reach D3 and E. Implement Project. Continue Public Engagement for project and develop signage of restoration.	Interim Administrator Jeffery, Water Resources Coordinator Maxwell, and staff from Eden Prairie will be walking the corridor prior to handing over maintenance responsibilities.	City of Eden Prairie Lower MN River Watershed District
Rice Marsh Lake Alum Treatment	Continuing to monitor the Lake.	Staff will be conducting sediment core sampling in October to assess treatment effectiveness and prepare for a second dose application.	City of Eden Prairie City of Chanhassen
Rice Marsh Lake Watershed Load Project 1	Conduct feasibility. Develop cooperative agreement with City of Chanhassen.	The Chanhassen City Council approved the Cooperative agreement with the District. Final plans are completed, and Interim Administrator Jeffery and Engineer Sobiech are requesting to go out for bids. Staff met and discussed monitoring equipment details.	City of Chanhassen
Upper Riley Creek	Work with city to develop scope of work(in addition to stabilizing the creek can we mitigate climate change). Conduct feasibility. Develop cooperative agreement with the City of Chanhassen.	Interim Administrator Jeffery is working with Counselor Welch to develop the term sheet and subsequent cooperative agreement with Chanhassen.	City of Chanhassen

	Order project and begin design.		
Middle Riley Creek	Work with Bearpath HOA/Golf Course to develop scope of work (in addition to stabilizing the creek can we mitigate climate change and provide for an improved recreational experience). Draft feasibility report. Develop cooperative agreement with Bearpath.	The cooperative agreement has been finalized and will be executed. A notice to proceed was given to Sunram.	Bearpath Neighborhood Association. City of Eden Prairie Dept. of Natural Resources
St Hubert Water Quality Project		The project is substantially complete. Interim Administrator Jeffery and Staff Mahon are working with the school to develop curriculum. Engineer Sobiech and Interim Administrator Jeffery are working to develop soil sampling protocol based upon Cornell University guidance.	CCSWCD Metropolitan Council City of Chanhassen
Purgatory Creek One Water			
PCRA Berm		Wenck/Stantec is to prepare a quote for construction administration so Interim Administrator Jeffery and Eden Prairie staff can meet to discuss cost sharing.	City of Eden Prairie MN DNR

Duck Lake Water Quality Project	Work with the City to implement neighborhood BMP. Identify neighborhood BMP to help improve water resources to Duck Lake. Implement neighborhood BMPs.	No change	City of Eden Prairie
Lotus Lake – Internal Load Control	Continuing monitoring the lake. Plan second alum dose application.	In 2021, staff added an additional phosphorus monitoring location on Lotus Lake in the east bay. This will allow staff to better assess the alum treatment effectiveness across Lotus Lake and better apply alum in the second application. Actual sediment coring will occur in 2022.	
Scenic Heights	Continue implementing restoration effort. Work with the City of Minnetonka and Minnetonka School District on Public Engagement for project as well as signage.	No change	Minnetonka Public School District City of Minnetonka Hennepin County
Silver Lake Restoration	Order project. Design Project. Work with the City of Chanhassen for Design, cooperative agreement and Implementation.	Molnau Trucking LLC will begin work in August.	City of Chanhassen
Professional Development	<ul style="list-style-type: none"> ● Interim Administrator Jeffery has begun annual reviews with the staff and will be looking to identify educational and other professional development opportunities. ● Microsoft Excel training was purchased through Minnetonka Community Education allowing all staff to take part in self-paced lessons to improve and expand Excel skills. ● Staff Forbes and Mahon attended the virtual presentation “Communicating effectively with people who are deaf, deafblind, late-deafened, and hard of hearing” hosted by the Watershed Partners. ● Staff Mahon has begun online training to become Project WET certified. 		

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing September 2021 Activities for October 6, 2021, Board Meeting
Date: September 30, 2021

The purpose of this memorandum is to provide the Riley-Purgatory-Bluff Creek Watershed District (RPBCWD) Board of Managers and the District Administrator with a summary of the activities performed by Barr Engineering Co., serving in the role of District Engineer, during September 2021.

General Services

- a. Participated in a September 2nd on-site meeting with the City of Chanhassen and WSB to discuss potential projects to restore several erodes ravines (one in the Lotus Lake watershed and another in the Lake Lucy watershed).
- b. Participated in a September 8th meeting with Interim Administrator Jeffery and staff Bakkum to discuss 2022 activities and revise the 2022 budget and levy based on Manager feedback.
- c. Attended a virtual meeting on September 9th with the MPCA working group on manufactured treatment device credit for stormwater management. The MPCA is proposing a three-tiered system of water quality crediting for TSS and TP based a review of the State of Washington's TAPE program. The MPCA's draft approach outlined below is similar to the guidance RPBCWD provided in the regulatory guidance document.
 - i. Tier 1 allows for 80% TSS and 50% TP reduction
 - ii. Tier 2 credit based on the 95% lower confidence limits (LCLs) of the monitoring data for a specific device
 - iii. Tier 3 credit based detailed analysis of device specific monitoring data
- d. Participated in a September 13th meeting with Stantec to discuss the potential repairs to the berm separating upper and Lower Purgatory Creek Park related to project implementation, project management, construction contracting, and the regulatory requirements triggered by the repair project. Also provided feedback to Interim Administrator Jeffery on the potential repairs and the regulatory requirements triggered by the project.
- e. Met with Interim Administrator Jeffery, City of Chanhassen, and Petersen Companies on September 13th to discuss the performance of the Lake Susan Park Pond reuse system. The system has experienced several shutdowns due to the pumping system losing prime and a UV sensor malfunction. To aid the city in its operation of the system we discussed the need to add a remote monitoring system to automatically notify the city, district, Barr, and Petersen when the pump shuts down. We also discussed pressure testing the intake line, the possibility of retaining Petersen to provide on-call services to ensure the system remains operational, and potentially modifying the intake design.

- f. Continued working with Interim Administrator Jeffery, Counsel Smith, and Counsel Welsh on finalizing the cooperative agreement with Bearpath Golf and Country Club, HOA access license, easements, and maintenance declaration for the Middle Riley Creek project.
- g. Met with Interim Administrator Jeffery on September 17th to discuss existing challenges with regulatory programs, concerns we have heard for the Managers and applicants, potential areas for improvements, and a general process for rule revisions. We anticipate facilitating a discussion with the Board of Manager in November on the rule revisions timeline and ideas for improvements to the regulatory program.
- h. Participated in the September 30th meeting with President Ward Interim Administrator Jeffery, and Counsel Smith to discuss upcoming October 6th agenda.
- i. Participated in the September 1st regular Board of Managers meeting.
- j. Attended the special budget meeting on September 14th.
- k. Prepared Engineer's Report for engineering services performed during September 2021.
- l. Miscellaneous discussions and coordination with Interim Administrator Jeffery about recent data requests, the 2022 budget process, upcoming budget public hearing, regulatory program, and upcoming Board meeting agenda.

Permitting Program

- a. *Permit 2020-073: Welters Way Streambank Stabilization* – This project consists restoration of approximately 160 feet of Purgatory Creek streambank and adjacent slope at 11579 Welters Way in Eden Prairie. The project triggers the floodplain management rule, erosion prevention and sediment control rule, wetland and creek buffer rule, and shoreline and streambank stabilization rule. Reviewed revised submittal materials received September 22nd and developed permit report for consideration at the October 6th Board of Managers meeting.
- b. *Permit 2021-046: Crossroads at Chanhassen*: The project proposes construction of a retail building and associated onsite parking areas at 8971 Crossroads Boulevard in Chanhassen. The proposed project triggers RPBCWD's erosion prevention and sediment control and stormwater management rules. Participated in a conference call with the applicant's engineer to discuss the restricted site, required soil boring and infiltration testing, and other review comments. Reviewed revised submittal materials received September 7th and 24th and worked with applicant to modify the design in response to review comments. Developed permit report for consideration at the October 6th Board of Managers meeting.
- c. *Permit 2021-051: Eagle Bluff*: The project proposes a lot split and construction of a single-family home resulting in 0.47 acres of land-disturbing activity and an increase in imperviousness of the site of 54%. The project proposes construction of an infiltration basin to provide stormwater quantity, volume, and rate quality control. The proposed project triggers RPBCWD's erosion prevention and sediment control, wetland and creek buffer, and stormwater management rules. Reviewed revised submittal materials received September 21st and 27th and worked with applicant to modify the design in response to review comments. Developed permit report for consideration at the October 6th Board of Managers meeting.
- d. *Permit 2021-062: The Ellie*: The project proposes to redevelop 5.7 acres of land that currently comprise seven single family residences on Lincoln Lane in Eden Prairie into a four story

- 245-unit apartment. The project proposes construction of two underground detention/infiltration systems and three tree trenches to provide stormwater quantity, volume, and rate quality control. The proposed project triggers RPBCWD's erosion prevention and sediment control and stormwater management rules. Reviewed information related to the applicant's potential use of pervious pavement on the site and provided feedback to the applicant's engineer.
- e. *Permit 2021-063 Reserve at Autumn Woods-* The project proposes the construction of an 87-lot development in Chaska. The site is proposed to be mass graded for roads, sidewalks, and building pads, as well as construction of supporting underground utilities and stormwater management. The project proposes construction of four infiltration basins and two ponds to provide stormwater quantity, volume, and rate quality control. The proposed project triggers RPBCWD's erosion prevention and sediment control, wetland buffers, and stormwater management rules. Coordinated with applicant on revised submittal timelines.
 - f. *Permit 2021-068 Erhart Farm-* The project proposes the construction of a 21-lot development to the west of Hwy 101 in Chanhassen. The project proposes construction of a wet pond and infiltration basin to provide stormwater quantity, volume, and rate quality control. The proposed project triggers RPBCWD's erosion prevention and sediment control, wetland buffers, and stormwater management rules. Reviewed revised submittal materials received August 30th, September 17th, 28th and 29th and worked with applicant to modify the design in response to review comments. Developed permit report for consideration at the October 6th Board of Managers meeting.
 - g. Participated in an August 30 meeting with City of Eden Prairie, MnDNR staff, and Bolton & Menk staff about the Duck Lake outlet modifications. The DNR indicated that the lake outlet cannot be changed from the current elevation despite direction given by previous area hydrologist. Reviewed Bolton and Menk's revised modeling for the Duck Lake Road project to confirm the project remain in conformance with RPBCWD's approval.
 - m. Met virtually with the city of Eden Prairie, Stantec, and Interim Administrator Jeffery on September 22nd to discuss the city's upcoming pond dredging project and what regulatory requirements the project would need to meet.
 - h. Miscellaneous preapplication calls from applicant with questions about rule applicability and criteria.
 - i. Miscellaneous conversations with Interim Administrator Jeffery about rules, permit database status, which permits will be reviewed by staff versus Barr, and rule application.

Data Management/Sampling/Equipment Assistance

- a. Prepared, loaded, and verified 71 RMB laboratory (RMB) reports.
- b. Prepared, loaded, and verified lake and creek data collected between May and July 2021 and pond data collected in August 2021 that was collected with the Survey123 mobile application.

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. Download and review data.

- b. Storm event sampling – collect, prep, and deliver samples.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Download and review data.
- b. Storm event sampling – collect, prep, and deliver samples
- c. Review of rating curve.
- d. Clean up mouse nests at station and remove pests (snakes, mice, etc.)

Task Order 14 Lower Riley Creek Stabilization

- a. Met with Landbridge Ecological on site to review vegetation establishment, plant replacements required under warranty, and developed management strategy for fall (9/13).
- b. Landbridge completed last management visit on 9/20. Landbridge targeted perennial weed species throughout entire site. Vegetation management will continue through summer 2022.
- c. Barr staff will continue review establishment progress to ensure vegetation establishment standards are being met.

Task Order 21 Bluff Creek Restoration

- a. Visited the site to review vegetation establishment.
- b. Coordinated with Sunram Construction and Prairie Restorations regarding vegetation management on site.
- c. Prairie Restorations is to treat thistle throughout and manage cattails within creek.
- d. Barr staff will continue review establishment progress to ensure vegetation establishment standards are being met.

Task Order 24B: Silver Lake Water Quality Improvement Project

- a. Submittal review and approvals
- b. Site visit to review traffic control and confirm contractor presence at site
- c. Site visit on 9/8/2021 with Molnau and City staff to review tree removals
- d. Development of Change Order 1 to address new/additional erosion along Pleasantview Road
- e. Ongoing attempts to communicate with contractor regarding construction schedule. This has taken more effort than allotted in the authorized construction administration budget leaving only \$3,100 remaining in the budget.
- f. Contractor has not started work despite continued pressure from Barr and district staff. Substantial completion was scheduled for September 30th. Working with Interim Administrator Jeffery and Counsel Welsh on potential steps to remedy Molnau's lack of progress.

Task Order 25: Duck Lake Watershed Rainwater Gardens

- a. Processed a contractor pay application for the first year of maintenance activities.

- b. Barr staff will perform a planting and garden inspection in late October, at the end of this growing season.

Task Order 28B: Rice Marsh Lake (RM_12a) Water Quality Improvement Project

- a. Held a pre-construction meeting with the Contractor (Meyer), landscaping sub (Landbridge Ecological), City of Chanhassen, Barr staff, and RPBCWD Interim Administrator Terry Jeffery on September 10th. Discussed construction schedule and means to stabilize the site through the winter months.
- b. City of Chanhassen's street improvement project along Dakota Lane has begun. The city agreed to install the first segment of 15-inch CPEP bypass pipe up to the 45-degree bend. Barr staked the location of the 45-degree pipe bend for RPBCWD Contractor to continue to complete the rest of the bypass work.
- c. City's excavation along the south side of Dakota Lane revealed private utilities (gas, fiber optics, electric) at the proposed rain garden location. A large concrete spillway buried about 10 feet below ground level was discovered where the storm sewer to the stormwater filter system is proposed. Depending on the size and reinforcement of this structure, the work to remove may be more than anticipated by the Contractor.
- d. Received schedule for construction by Contractor. Mobilization is anticipated to begin in early November with permanent restoration in place by mid-December.
- e. Reviewed submittals for materials for project.

Task Order 29B: Middle Riley Creek (Reach R3) Stabilization Project Design

- a. Continued coordination with Bearpath and RPBCWD to finalize the cooperative agreement. Because the agreements are taking much longer than anticipated to finalize, the Notice to Proceed has not yet been issued to Sunram to proceed with any of the construction work. Because of delays in the execution of the cooperative agreement and recordation of the declaration, work has not started, and the construction timeline will need to be revisited. These additional coordination efforts have exceeded the allotted time authorized by the RPBCWD Board for this effort by roughly \$1,000 as of September 24th.
- b. Continued coordination with Sunram Construction, Inc. to finalize project contract with RPBCWD.
- c. An on-site meeting was held September 2nd with City of Eden Prairie, Bearpath, Dunnick Golf, and Sunram Construction, Inc. to review trees identified for removal and to review construction access routes.
- d. An on-site meeting was held September 7th, City of Eden Prairie, Dunnick and Bearpath representatives to review installed erosion control BMPs so that the Land Alteration permit could be issued by the City for the project.
- e. Continued coordination with USACE. Permit issued August 27, 2021 (project authorized under Nationwide Permit 13 – Bank Stabilization).

- f. Continued coordination with City of Eden Prairie for Land Alteration Permit (issued September 7, 2021) and WCA approval (September 3, 2021). The Vegetation Management Permit was issued August 13, 2021.

Task Order 30B: Pioneer Trail Wetland Restoration Project

- a. Continuing to receive and review construction submittals from Sunram Construction Inc.
- b. Held virtual Preconstruction meeting with Sunram Construction Inc, Davey (landscaping sub), City of Chanhassen, and Interim Administrator Terry Jeffery on September 7th.
- c. Davey completed first round of herbicide treatment on the site.
- d. Sunram Construction has begun site mobilization, installed construction entrance, removed the fencing on site, and submitted the first Application for Payment request on September 21st.
- e. Visited the site on September 24th, reviewed payment application #1, and provided feedback to Sunram requesting additional information related to well removal and fencing left on site.

Task Order 033: Wetland Assessment – Phase 1

- a. Completed methodologies to support the framework including water quality and hydrology functions.
- b. Drafting methodology and example assessment for each of the ecosystem services.
- c. Working on presentation for District staff to review outcomes of the draft assessment framework.
- d. Continued drafting Phase 1 report to define ecosystem services and describe methodology for assessing each service.

Task Order 035: Eden Prairie Stormwater Model Update and Flood-Risk Area Prioritization

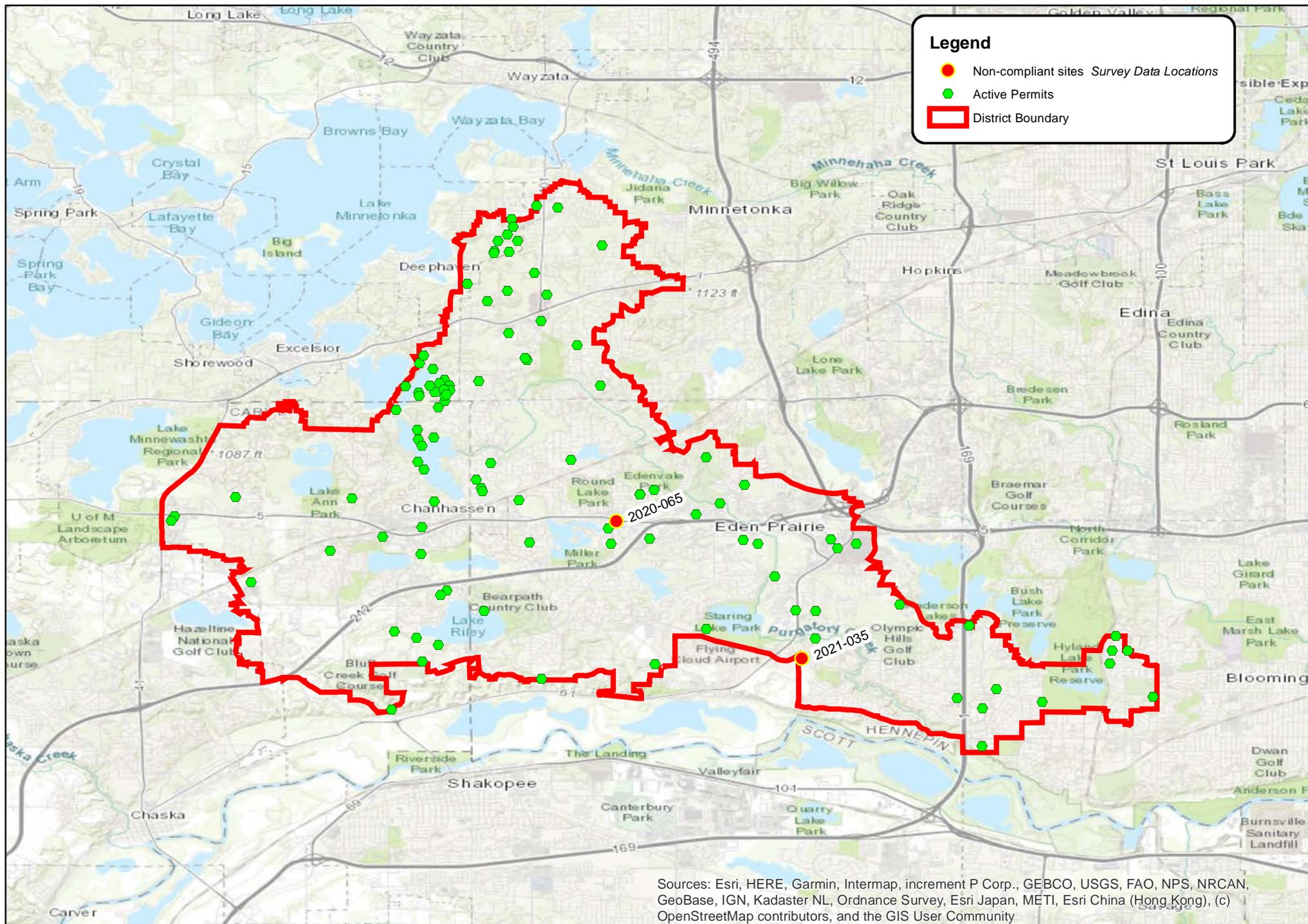
- a. Received comments from City of Eden Prairie staff on subwatershed divides. Overall City staff agreed with the proposed level of resolution and divides, comments were generally limited to minor revisions to delineations and in localized areas merging watersheds together. This past month staff have addressed comments received on the watershed divides and developed a final shapefile that will be imported into the model.
- b. Completed identifying storm sewer pipes that will be included in the model. The additional pipes were reviewed to determine if the City's GIS files included information to update the model. In general, the City's GIS files included information for approximately 80% of the additional storm sewer. Staff prepared a data request that included locations where information was missing in the City's GIS files.
- c. On September 10th, staff met with Eden Prairie staff to discuss the data request and approach for populating missing information. City staff will begin reviewing electronic as-built

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing September 2021 Activities for October 6, 2021, Board Meeting
Date: September 30, 2021
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- files, project files, and collecting survey information. Collection of the missing information is anticipated to extend through December 2021.
- d. Staff started the process for updating the model. This process includes reformatting GIS files, deleting out sections of the model that will be updated, and working through the import procedures to verify that all the information is successfully transferred from GIS into the model. Staff will continue importing data from GIS into the model throughout October.
 - e. Next month staff will complete the process of importing information into the model and begin adding overland flow paths to convey flood flows downstream during large rainfall events. This process of adding overland flow routes and debugging the model will continue through the end of December.
 - f. The schedule for this task order extends through 2022. In 2021 work will focus on updating the district's stormwater models for Riley Creek and Purgatory Creek to include additional detail within Eden Prairie. This fall work will shift to calculating hydrologic parameters, available floodplain storage volume, and debugging the updated models. In 2022, work will include model validation, simulation of design events, inundation mapping, identification and prioritization of flood prone areas, and documentation.

Task Order 036A: Bluff Creek Reach 5 Concept Design

- a. Continued to develop concept designs based on information collected during the site visit in June.
- b. Continued developing feasibility assessment report including cost estimates for concept designs.



Permit #	Date	Time	f_15217	Perimeter Control	Comment	Inlet Protection	Notes	Construction Entrance	Notes3	Tracking	Notes2	Soil Stabilization	Notes4	pname	ptype
2021-035	9/20/2021	1:01:00 PM	mnicklay	Non_Compliant	Silt fence failed with large sediment release	Compliant		Compliant		Compliant		Non_Compliant	Erosion on slope above silt fence failure	Creekwood Drive Drainage Improvements	Government - Linear
2020-065	9/23/2021	11:23:00 AM	mnicklay	Compliant		Compliant		Compliant		Non_Compliant	Tracking on parking lot	Compliant		Terry Pine Coffee	Private - Commercial/Industrial

Riley Purgatory Bluff Creek Watershed District

Our mission is to protect, manage, and restore our water resources using input from our communities, sound engineering practices, and our ability to efficiently fund beneficial projects which transcend political jurisdictions.

Position Title	Watershed District Administrator
Position Object	This position oversees the administration of the District office to fulfil the RPBCWD mission. Provides overall budgeting, planning, direction, coordination, and operations consistent with the goals, objectives and policies approved by the Board of Managers. Supervises all District employees and activities. Provides various technical services as required.
Status	Exempt
Accountable to	District Board of Managers

Key Responsibilities and Duties

Administration Coordination

- Direct the administration of the District as communicated by the Board of Managers
- Provide the hands on, day-to-day oversight and supervision of all of the activities of staff
- Identify and scope opportunities that advance the goals and policies of the District; develop opportunities into projects or programs authorized by the Board of Managers
- Administer finance and accounting system and coordinate with accounting services consultant to maintain records; oversee the payment of invoices and prepare financial statements for the Board. Ensure all operations are conducted within budgeted guidelines
- Work with the District Attorney, District Engineer, and other professionals to provide efficient, cooperative, and informative decisions relating to the District
- Report monthly to the Board of Managers on all activities undertaken by the District Perform other related duties and responsibilities as established by ordinances or resolutions adopted and delegated by the Board of Managers
- Assist Auditor in the preparation of the annual audit
- Prepare District annual report on activities and financial audit and submit reports as required
- Serve as District Liaison with other jurisdictional governments.

Personnel Management

- Maintain an orderly and functional District office
- Interview, hire, coach, supervise and evaluate staff; conduct performance appraisals
- Provide for clear understanding of work responsibilities and job descriptions for all

employees

- Make recommendations to the Board of Managers relating to employment of District staff, wages, benefit programs, hours, and employee issues
- Confidentially maintain all personnel records
- Recommend, update and implement personnel policies and procedures that align with government regulations and RPBCWD mission

Legal and Financial Oversight

- Sign official papers of the District.
- Serve as a liaison between the District and other governmental entities and organizations
- Approve all fiscal documents
- Work with the Board of Managers to prepare an annual budget
- Manages permit application fees
- Manages financial assurances

Programs, Projects and Technical Oversight

- Provide for clear understanding of work responsibilities, goals, etc.
- Update and revise the District Comprehensive Plan and District Rules, as needed
- Coordinate District programs and activities as guided by the Comprehensive Plan
- Review permit applications, make recommendations to the Board of Managers, and issue permits
- Inspect construction sites for compliance with RPBCWD, PCA, and municipal permits, and train/oversee staff in doing the same
- Maintain permit records, including accounts and inspection records
- Coordinate with other regulatory entities
- Develop and oversee District water quality and data collection programs including the analysis and interpretation of data.
- Oversee outside contractors and consultants to ensure they follow District Management Plan and project objectives and meet budgetary requirements

Board Meetings

- Attend and participate in all Board of Managers meetings
- Prepare reports, summaries, documentation, and/or other data regarding projects, improvements, planning concerns and issues, and other matters relating to local improvements and District projects as may be required for the Board of Managers to study and take further action
- Provide staff support for all documents distributed in the board packet (agenda, information packets, coordination of contract staff, etc.)
- Review and recommend corrections before distributing to Board of Managers

Information / Education / Public Outreach

- Act as Public Information Officer for the District
- Maintain an excellent working relationship with local, state and federal agencies/representatives
- Coordinate and provide information to the Board of Managers in order to effectively

administer District affairs; inform Board of Managers of issues and concerns relating to the administration of the District's government

- Maintain the distinction between private and public data as defined by all laws of the State of Minnesota as well as all federal laws and regulations including, but not limited to the Data Privacy Act.
- Provide information and input regarding the recommendation of policies and procedures that will further the goals of the Board of Managers and that will improve the day-to-day administration of the District as well as improve the effectiveness of the District government
- Works with education and outreach staff to develop public relations materials and send out news releases as required in order to maintain positive public relations with the general public as well as the District staff
- Administers the operation and maintenance of the District's Geographic Information Services (GIS)

Qualifications and Experience

Position Specific

- BA/BS in environmental engineering, earth/environmental science, water resources, business administration, public administration, finance or related field; Masters Degree preferred
- Minimum of five years public sector administrative experience; two years of public sector professional experience if in combination with a Masters degree
- Effective communication skills that include the ability to listen to various opinions, respect for others' ideas, strong writing skills, and oral presentation skills.
- Demonstrated ability to lead and facilitate meetings and make presentations to other government agencies, councils, and community groups
- Thorough knowledge of District operations, policies and ordinances
- Able to accommodate job interruptions and still complete responsibilities in a fully satisfactory manner
- Able to prioritize work, especially when workload exceeds time available
- Broad knowledge of Statutes 103D and E
- Broad experience in program management, budget management, and personnel management
- Strong knowledge of supervisory and management practices and techniques
- Thorough knowledge of modern principles and practices of public management and administration, data privacy and open meeting law requirements
- Ability to organize and direct large and varied programs
- Ability to prepare accurate and thorough reports and maintain accurate and up-to-date records
- Capable of functioning at a high level of professional ethics with the ability to promote an ethical work place and ensure all policies and protocols are followed by District staff
- Ability to research and analyze data and situations, determine appropriate actions and lead others toward a solution
- Ability to develop and initiate plans and procedures and prioritize projects
- Availability to attend all Board of Managers meetings and provide written and verbal reports
- Maintain a valid driver's license and a good driving record
- Able to walk and carry equipment in rough terrain, and lift and carry approximately 50 pounds

- Withstand outside exposures in all temperatures and humidity, and possible construction noise

All PLSLWD positions

- Collaborative and cooperative with internal and external stakeholders
- Ability to ensure security of district property and facilities, and confidentiality of information and records
- Competent with personal computers and Microsoft Office Suite, email and Internet applications
- Flexible and adaptable to do what it takes to get the job done
- Ability to plan, prioritize, multi-task and complete projects by deadline
- Service-oriented, with a respectful and friendly demeanor
- Ability to problem solve and innovate
- Demonstrate a high level of respect, integrity and confidentiality
- Strong written, oral, and interpersonal communication skills
- Strong organizational skills
- Willing to learn new technology and processes and recommend enhancements
- Able to work some evenings and weekends

This Position Description is intended to describe the general contents of and the requirements for the performance of this job. It is not intended to be, nor may it be construed to be, a complete and exhaustive statement of duties, responsibilities, or requirements.

This Position Description is subject to change as the needs of the District and the requirements of the position change. Additional, alternative or new responsibilities and special projects may be assigned.

This is not a contract nor does it imply a contract.



18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2021-046

Considered at Board of Managers Meeting: October 6, 2021

Received complete: September 7, 2021

Applicant: Kraus-Anderson Realty Company

Consultant: Westwood Professional Services, Gretchen Schroeder P.E.

Project: Crossroads of Chanhassen – The applicant proposes the construction of a new retail building, associated parking areas, landscaping, utilities and stormwater management facilities. Stormwater management facilities include an underground stormwater detention system, rainwater harvest and reuse system, and a proprietary stormwater treatment unit (Bayfilter Stormwater Filtration System) to provide volume control, water quality, and rate control.

Location: 8971 Crossroads Blvd, Chanhassen, MN

Reviewer: Dallen Webster E.I.T. and Scott Sobiech P.E., Barr Engineering

Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the October 6, 2021 meeting of the managers:

Resolved that the application for Permit 2021-046 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report.

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2021-046 to the applicant on behalf of RPBCWD.

Upon roll call vote, the resolutions were adopted, _____.

Applicable Rule Conformance Summary

Rule	Issue	Conforms to RPBCWD Rules?	Comments	
C	Erosion Control Plan	See Comment	See rule-specific permit condition C1 related to name of individual responsible for on-site erosion control.	
J	Stormwater Management	Rate	Yes	
		Volume	Yes	
		Water Quality	Yes	
		Low Floor Elev.	Yes	
		Maintenance	See Comment	See rule-specific permit condition J1 related to recordation of stormwater facility maintenance declaration.
		Chloride Management	See Comment	See stipulation #5 related to providing a chloride management plan prior to project close-out.
		Wetland Protection	Yes	
L	Permit Fee Deposit	See Comment	\$3,000 received June 24, 2021. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.	
M	Financial Assurances	See Comment	The financial assurance is calculated at \$182,229.	

Background

The applicant proposes construction of a 6,652 square foot retail building and parking lot, associated utilities, and stormwater management facilities on a lot which is partially developed (i.e., this is a redevelopment project). Proposed stormwater management facilities include an underground stormwater detention system rainwater harvest and reuse system, and a proprietary stormwater treatment unit (Bayfilter Stormwater Filtration System) to provide volume control, water quality, and rate control.

The project site information is summarized below:

Project Site Information	Area (acres)
Total Site Area	4.39
Existing Site Impervious	1.93
Disturbed Existing Impervious Area	0.20 (10% disturbance)
Proposed Site Impervious Area	2.54
Change in Impervious Area	0.61 (32% increase)
Regulated Impervious Area	0.82
Total Disturbed Area	1.09

The following materials were reviewed in support of the permit request:

1. Permit Application received June 17, 2021 (Notified applicant on July 8, 2021 that submittal was incomplete); materials submitted to complete the application September 7, 2021.
2. Stormwater Management Report dated June 17, 2021 (revised September 7, 2021 and September 24, 2021)
3. Project Plan Set (7 sheets) dated June 17, 2021 (revised with 9 sheets September 7, 2021 and September 24, 2021)
4. Electronic HydroCAD models received on September 7, 2021 (revised September 24, 2021)
5. Electronic MIDS models received on September 7, 2021 (revised September 24, 2021)
6. Soil Boring Log by Haugo Geotechnical Services dated July 23, 2021
7. Double Ring Infiltrometer Testing Results by Haugo Geotechnical Serviced dated August 18, 2021
8. Engineer's Opinion of Probable Construction Costs dated September 7, 2021 (revised September 24, 2021)
9. Electronic p8 model received on September 24, 2021

Rule Specific Permit Conditions

Rule C: Erosion Prevention and Sediment Control

Because the project will alter 1.09 acres of land-surface area, the project must conform to the requirements in the RPBCWD Erosion Prevention and Sediment Control rule (Rule C, Subsection 2.1).

The erosion and sediment control plans prepared by Westwood includes installation of perimeter control, inlet protection for storm sewer catch basins, a rock construction entrance, protection of stormwater management facilities, placement of a minimum of 6 inches of topsoil, construction sequencing, decompaction of pervious areas compacted during construction, and retention of native topsoil onsite. To conform to RPBCWD Rule C requirements the following revisions are needed:

- C1. The Applicant must provide the name and contact information of the individual responsible for erosion control at the site. RPBCWD must be notified if the responsible individual changes during the permit term.

Rule J: Stormwater Management

Because the project will alter 1.09 acres of land-surface area and increase the site imperviousness by less than 50%, the project is redevelopment and stormwater management must be provided in accordance with the criteria of RPBCWD's Stormwater Management rule (Rule J, Subsection 2.3) for the 1.09 acres of new impervious surface and disturbed areas on the site.

The project proposes an underground stormwater detention system, rainwater harvest and reuse system, and a proprietary stormwater treatment unit (Bayfilter Stormwater Filtration System) to provide

volume control, water quality, and rate control. Site runoff conveyed to the underground detention system will be used to irrigate greenspace in the proposed project area. Runoff exceeding the capacity of the reuse system will receive additional treatment by the proprietary stormwater treatment unit prior to discharging into the existing storm sewer system.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The Applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the table below.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
West	1.3	1.3	2.3	2.3	4.2	4.1	0.1	0.1
North	7.3	7.2	12.5	12.4	22.6	22.2	0.7	0.7
East	0.9	0.9	1.8	1.8	3.6	3.6	0.1	0.1

The proposed stormwater management plan will provide rate control in compliance with the RPBCWD requirements for the 2-, 10-, and 100-year events. Thus, the proposed project meets the rate control requirements in Rule J, Subsection 3.1.a.

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from the new and disturbed impervious surface of the parcel. An abstraction volume of 3,258 cubic feet is required from the proposed 0.82 acres (35,542 square feet) of impervious area.

Soil borings and infiltrometer tests performed by Haugo Geotechnical Serviced show that soils in the project area are typically a sandy lean clay. Double ring infiltrometer testing results provided by Haugo Geotechnical Serviced dated August 18, 2021 show an infiltration rate of 0.0 in/hr beneath the proposed stormwater management feature, thus confirming that infiltration is not feasible on this site. Because of the soils information collected across the site and low in-situ infiltration measurement and the abstraction standard in Subsection 3.1 of Rule J cannot practicably be met, the site is considered a restricted site and stormwater runoff volume must be managed in accordance with Subsection 3.3 of Rule J.

For restricted sites, subsection 3.3 of Rule J requires rate control in accordance with subsection 3.1.a and that abstraction and water-quality protection be provided in accordance with the following sequence: (a) Abstraction of 0.55 inches of runoff from site impervious surface determined in accordance with paragraphs 2.3, 3.1 or 3.2, as applicable, and treatment of all runoff to the standard in paragraph 3.1c; or (b) Abstraction of runoff onsite to the maximum extent practicable and treatment of all runoff to the standard in paragraph 3.1c; or (c) Off-site abstraction and treatment in the watershed to the standards in paragraph 3.1b and 3.1c. The engineer concurs that the 1,629 cubic feet of abstraction provided by the applicant’s proposed rainwater harvest and reuse system is in accordance with subsection 3.3.a.

The table below summarizes the volume abstraction required and the volume abstraction achieved by the proposed stormwater management facilities on site. The proposed project is in conformance with Rule J, Subsection 3.3.a.

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
0.55	1,629	0.55	1,629

Because the proposed stormwater reuse system requires consistent use at a specified rate to meet District requirements, performance monitoring for the site will be required to ensure that the project provides the proposed volume abstraction.

Plans indicate pretreatment for runoff entering the underground stormwater detention system and rainwater harvesting system is being provided by sump manholes, thus the proposed project conforms with RPBCWD Rule J, Subsection 3.1b.1.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant provide for at least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff, and no net increase in TSS or TP loading leaving the site from existing conditions. The applicant is proposing to use pre-treatment basins, an underground stormwater detention system, rainwater harvest and reuse system, and a proprietary stormwater treatment unit (Bayfilter Stormwater Filtration System) to achieve the required TP and TSS removals.

The P8 water quality model was used to evaluate the removal efficiencies of the underground detention system. The removal efficiency of the proprietary stormwater treatment unit (Bayfilter Stormwater Filtration System) is based on the General Use Level Designation (GULD) certification from the State of Washington’s Technology Assessment Protocol – Ecology (TAPE) program (see attached summary for more information). The TAPE program evaluated the performance of the proposed proprietary unit and determined the system will achieve the necessary TP and TSS removals for the GULD status, thus

allowing for a 50% TP and 80% TSS removals. This approach is consistent with guidance under development by the MPCA. Removal efficiencies were imported to the MIDs calculator to estimate the TP and TSS removals for the underground detention system, rainwater harvest and reuse system, and a proprietary stormwater treatment unit. The results of this modeling are summarized in tables below showing the annual TSS and TP removal requirements are achieved and that there is no net increase in TSS and TP leaving the site. The engineer concurs with the modeling and finds that the proposed project is in conformance with Rule J, Subsection 3.1.c.

Annual TSS and TP removal summary

Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr)	Provided Load Reduction (lbs/yr)
Total Suspended Solids (TSS)	280.4	252.4 (90%)	253.1 (90.2%)
Total Phosphorus (TP)	1.54	0.92 (60%)	1.14 (74.2%)

Summary of net change in TSS and TP leaving the site

Pollutant of Interest	Existing Site Loading (lbs/yr)	Proposed Site Load after Treatment (lbs/yr)	Change (lbs/yr)
Total Suspended Solids (TSS)	137.1	27.3	-109.8
Total Phosphorus (TP)	0.76	0.4	-0.36

Low floor Elevation

All new buildings must be constructed such that the lowest floor is at least two feet above the 100-year high water elevation or one foot above the emergency overflow of a stormwater-management facility according to Rule J, Subsection 3.6a. In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with this requirement according to Rule J, Subsection 3.6b.

The low floor elevation of the proposed building and existing habitable structure as well as the 100-year flood elevation in the underground stormwater detention system are summarized below. Because the low floor elevations of the existing and proposed structures are more than two feet above the proposed 100-year flood elevation, the proposed project is in conformance with Rule J, Subsection 3.6.

Structure	Low Floor Elevation of Nearest Building (ft)	Stormwater Facility	100-year Event Flood Elevation of Stormwater Facility (ft)	Freeboard to 100-year Event (ft)
Proposed Building	924.2	Underground Stormwater Detention System	920.5	3.7
Existing Structure	925.8	Underground Stormwater Detention System	920.5	5.3

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. The stormwater management facilities include the an underground stormwater detention system, rainwater harvest and reuse system, and a proprietary stormwater treatment unit (Bayfilter Stormwater Filtration System) and thus maintenance will need to be provided in accordance with the manufacturers' guidance/manual. To conform to the RPBCWD Rule J the following revisions are needed:

- J1. Permit applicant must provide a maintenance and inspection declaration as required by Rule J, Subsection 3.7. The declaration must also include a stormwater reuse monitoring and reporting plan that includes protection of the greenspace to be irrigated and metering of the volume of reuse. In addition, the Bayfilter Stormwater Filtration System must be maintained in a manner consistent with the testing data used to show compliance with the RPBCWD water-quality standard. A draft declaration must be provided for District approval prior to recordation as a condition of issuance of the permit.

Wetland Protection

Because runoff from this site is directly tributary to a downstream, off-site stormwater pond and is not tributary to any wetland, the proposed project does not trigger analysis under Rule J, subsection 3.10.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. To close out the permit and release the \$5,000 in financial assurance held for the purpose of chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.

Rule L: Permit Fee Deposit:

The RPBCWD permit fee schedule adopted in February 2020 requires permit applicants to deposit \$3,000 to be held in escrow and applied to cover the \$10 permit-processing fee and reimburse RPBCWD for permit review and inspection-related costs and when a permit application is approved, the deposit must be replenished to the applicable deposit amount by the applicant before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules. A permit fee deposit of \$3,000 was received on June 24, 2021. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. Subsequently, if the costs of review, administration, inspections and closeout-related or other regulatory activities exceed the fee deposit amount, the applicant will be required to replenish the deposit to the original amount or such lesser

amount as the RPBCWD administrator deems sufficient within 30 days of receiving notice that such deposit is due. The administrator will close out the relevant application or permit and revoke prior approvals, if any, if the permit-fee deposit is not timely replenished.

- L1. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.

Rule M: Financial Assurance:

Rules C: Silt fence and silt dikes: 500 L.F. x \$2.50/L.F. =	\$1,250
Inlet protection: 5 x \$100 =.....	\$500
Rock Entrance: 1 x \$250 =	\$250
Restoration: 1.09 acres x \$2,500/acre =	\$2,725
Rules J: Stormwater Management Facility: \$124,750 x 125% of engineer’s opinion of cost=	\$155,938
Chloride Management Plan: \$5,000	\$5,000
Contingency (10%)	<u>\$16,566</u>
Total Financial Assurance.....	\$182,229

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
3. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed on the permit. The grant of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
4. The grant of the permit does not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
5. The issuance of this permit does not convey any rights to either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
6. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.

7. RPBCWD's determination to issue this permit was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.
8. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

1. The proposed project includes the information necessary, plan sheets, and erosion control plan for review.
2. The proposed project will conform to Rules C and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

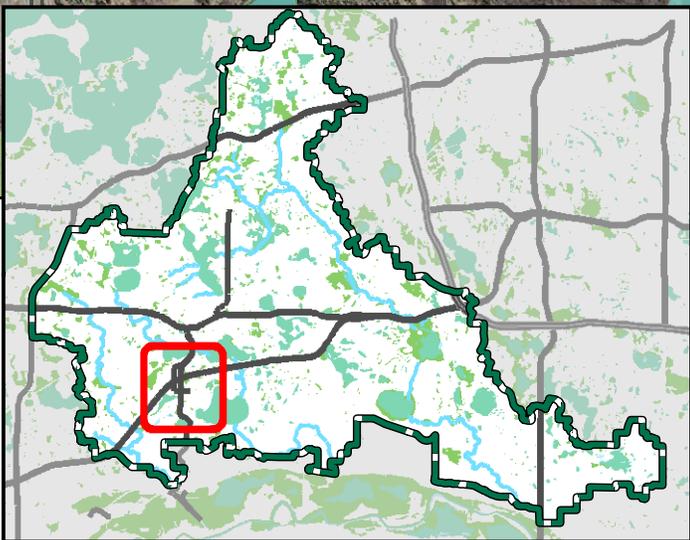
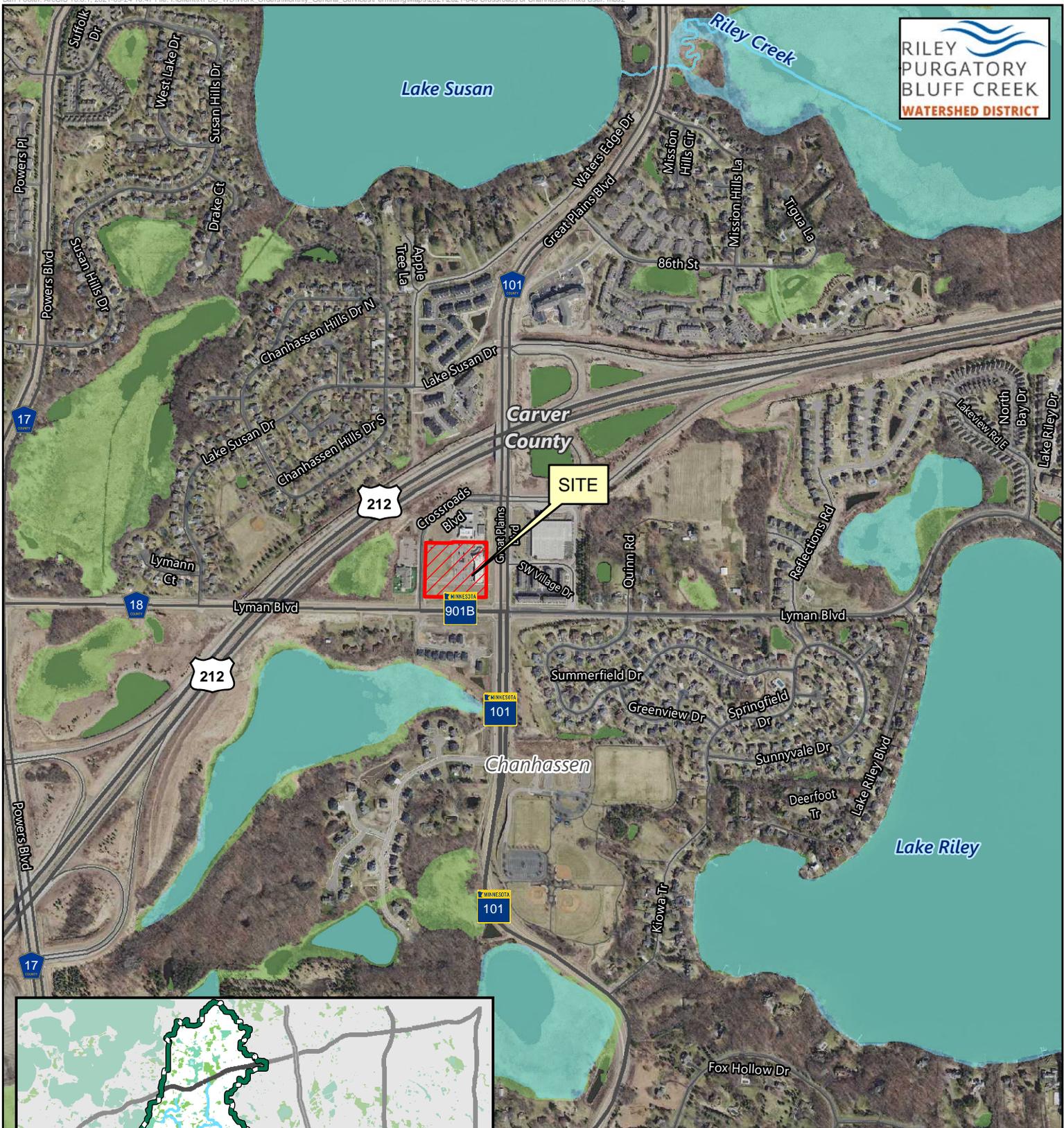
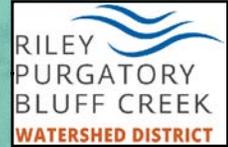
Approval, contingent upon:

1. Financial Assurance in the amount of \$182,229.
2. Applicant providing the name and contact information of the individual responsible for erosion and sediment control at the site.
3. Receipt in recordation a maintenance declaration for the operation and maintenance all stormwater management facilities. The declaration must also include a stormwater reuse monitoring and reporting plan that includes protection of the greenspace to be irrigated and metering of the volume of reuse, as well as maintenance specifics provided by the manufacturer(s) or installer(s) for the proprietary systems. In addition, the Bayfilter Stormwater Filtration System must be maintained in a manner consistent with the testing data used to show compliance with the RPBCWD water-quality standard. Drafts of all documents to be recorded must be approved by the District prior to recordation.
4. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Continued compliance with General Requirements
2. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization, all the stormwater facilities conform to design specifications and function as intended and approved by the District. As-built/record drawings must be signed by a professional engineer licensed in Minnesota and include, but not limited to:
 - a. the surveyed bottom elevations, water levels, and general topography of all facilities;
 - b. the size, type, and surveyed invert elevations of all stormwater facility inlets and outlets;

- c. the surveyed elevations of all emergency overflows including stormwater facility, street, and other;
3. Providing the following additional close-out materials:
 - a. Documentation that disturbed pervious areas remaining pervious have been decompacted per Rule C.2c criteria
4. The work on the Crossroads of Chanhassen development under the terms of permit 2021-046, if issued, must have an impervious surface area and configuration materially consistent with the approved plans. Design that differs materially from the approved plans (e.g., in terms of total impervious area) will need to be the subject of a request for a permit modification or new permit, which will be subject to review for compliance with all applicable regulatory requirements.
5. To close out the permit and release the \$5,000 in financial assurance held for the purpose of the chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.
6. Replenish the permit fee deposit to the original amount or such lesser amount as the RPBCWD administrator determines sufficient within 45 days of receiving notice that such deposit is due in order to cover continued actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules.



Permit Location Map



Feet



CROSSROADS OF CHANHASSEN
Permit 2021-046
Riley Purgatory Bluff Creek
Watershed District

PRELIMINARY PLANS

FOR

EXISTING CONDITIONS, SITE, GRADING, EROSION CONTROL, UTILITIES, AND LANDSCAPE

FOR

CHANHASSEN RETAIL CHANHASSEN, MN

PREPARED FOR:

KRAUS-ANDERSON REALTY COMPANY

501 SOUTH 8TH ST

MINNEAPOLIS, MN 55404

CONTACT: ERICA ARNE

PHONE: 952-948-9379

EMAIL: EARNE@KAREALTY.COM

PREPARED BY:

Westwood

Phone (852) 935-5155 15751 Wabasha Street, Suite #200
Fax (852) 933-9822 14700 Wabasha Street, Suite #200
Toll Free (888) 933-5155 westwoodps.com
Westwood Professional Services, Inc.

PROJECT NUMBER: 0015032.00

CONTACT: DAVID T. BADE



Vicinity Map
(NOT TO SCALE)

SHEET INDEX

Sheet No.	Sheet Title
001	EXISTING CONDITIONS AND FINISH PLAN
002	GRADING PLAN
003	EROSION CONTROL PLAN
004	UTILITIES PLAN
005	LANDSCAPE PLAN
006	CONSTRUCTION DETAILS

BENCHMARKS

BM-1	XXXXXXX
BM-2	XXXXXXX
BM-3	XXXXXXX
BM-4	XXXXXXX

NO.	DATE	REVISION	SHEETS
	06/17/2021	WATERSHED SUBMITTAL	
	09/07/2021	WATERSHED RESUBMITTAL	
	09/24/2021	WATERSHED RESUBMITTAL	
	-	-	
	-	-	
	-	-	
	-	-	
	-	-	
	-	-	
	-	-	

PRELIMINARY PLANS

FOR
EXISTING CONDITIONS, SITE, GRADING, EROSION
CONTROL, UTILITIES, AND LANDSCAPE
FOR
CHANHASSEN RETAIL
CHANHASSEN, MN

INITIAL SUBMITTAL DATE: 06/10/2021 SHEET: C001 OF 9

EXISTING
 AND REMOVALS
 PLAN



CHANHASSEN, MN
 RETAIL

DATE: 09/24/2021
 DRAWN BY: T. BAKER
 CHECKED BY: T. BAKER

PREPARED FOR:
**KRAUS-ANDERSON
 REALTY COMPANY**
 501 SOUTH 18TH ST
 MINNETONKA, MN 55344

REVISIONS	DATE	DESCRIPTION
06/10/2021	06/10/2021	WATERWORKS SUBMITTAL
06/17/2021	06/17/2021	WATERWORKS SUBMITTAL
06/24/2021	06/24/2021	WATERWORKS SUBMITTAL

VERTICAL SCALE: 1" = 1'
 HORIZONTAL SCALE: 1" = 100'

Call 48 hours before digging:
811 or call 811.com
 for more information

REMOVAL LEGEND

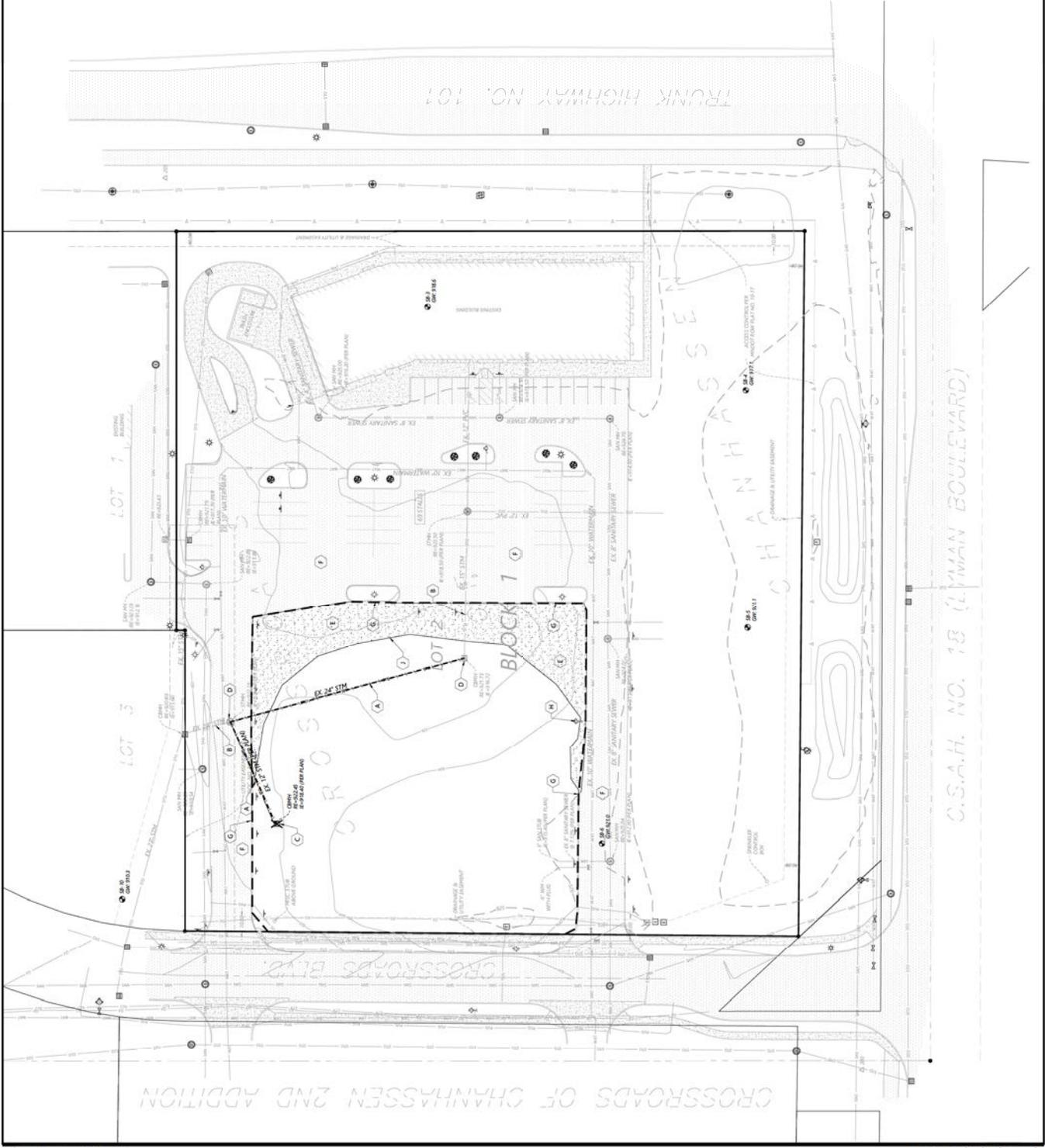
EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
APPROXIMATE LIMIT OF DISTURBANCE	APPROXIMATE LIMIT OF DISTURBANCE
CURB & GUTTER	CURB & GUTTER
SANITARY SEWER	SANITARY SEWER
WATER MAIN	WATER MAIN
HYDRANT	HYDRANT
STORM SEWER	STORM SEWER
GAS	GAS
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC
OVERHEAD TELEPHONE	OVERHEAD TELEPHONE
OVERHEAD TELEPHONE	OVERHEAD TELEPHONE
CABLE TELEVISION	CABLE TELEVISION
REPAIRING WALL	REPAIRING WALL
FENCE	FENCE
CONCRETE	CONCRETE
BITUMINOUS GRAVEL	BITUMINOUS GRAVEL
TREE	TREE
LIGHT POLE	LIGHT POLE
TRAFFIC SIGN	TRAFFIC SIGN
CONSTRUCTION BARRIAGE	CONSTRUCTION BARRIAGE
SOIL BORING LOCATION	SOIL BORING LOCATION

REMOVAL NOTES

1. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY BY E-MAIL IF ANY DISCREPANCIES ARE FOUND.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OR REPAIRING ANY EXISTING UTILITIES AND FIELD VERIFY CONDITION OF EXISTING UTILITIES PRIOR TO REMOVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OR REPAIRING MISCELLANEOUS ITEMS (SUCH AS FENCES, SIGNS, TRAFFIC SIGNS, ETC.) THAT MAY BE DAMAGED BY CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SECURING NECESSARY UTILITIES FROM TO BE REMOVED AND ANY SITE REMEDIATION REQUIRED TO BE COMPLETED PRIOR TO THE START OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY PROVIDERS FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES AFFECTED BY SITE DEVELOPMENT. ALL PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

REMOVAL KEYNOTES

- A. REMOVE STORM SEWER
- B. EXISTING STORM SEWER TO REMAIN
- C. EXISTING STORM SEWER TO REMAIN
- D. EXISTING STORM STRUCTURE TO REMAIN
- E. REMOVE GRAVEL
- F. EXISTING CURB TO REMAIN
- G. EXISTING CURB TO REMAIN
- H. REMOVE AND RELOCATE HYDRANT
- I. APPROXIMATE LIMIT OF DISTURBANCE



NOT FOR CONSTRUCTION

C.S.A.H. NO. 18 (LYMAN BOULEVARD)

TRUNK HIGHWAY NO. 101

CROSSROADS 2ND ADDITION



CHANHASSEN, MN
 RETAIL

REALLY-ANDERSON
 REALTY COMPANY

MINNEAPOLIS, MN 55404

REVISIONS	DATE	DESCRIPTION
06/10/2021	06/10/2021	MARKED FOR CONSTRUCTION
06/17/2021	06/17/2021	MARKED FOR CONSTRUCTION
06/24/2021	06/24/2021	MARKED FOR CONSTRUCTION

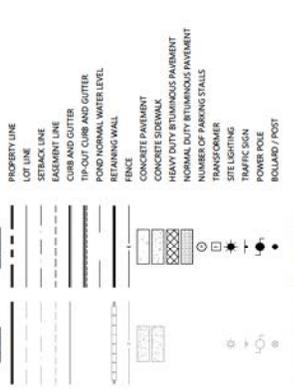


NOT FOR CONSTRUCTION

Call all notes below regarding
 811 or call 811.com
 for utility locations.

1 SITE DETAILS (SI-0XX)

1. 811 CURB AND GUTTER
2. FLUSH CURB AND GUTTER
3. PRIVATE CONCRETE SIDEWALK
4. SIGN INSTALLATION
5. HANDICAP ACCESSIBLE STORAGE AND STRIPING
6. SIGN INSTALLATION
7. SIGN INSTALLATION
8. SIGN INSTALLATION
9. SIGN INSTALLATION
10. SIGN INSTALLATION
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24. SIGN INSTALLATION
25. SIGN INSTALLATION

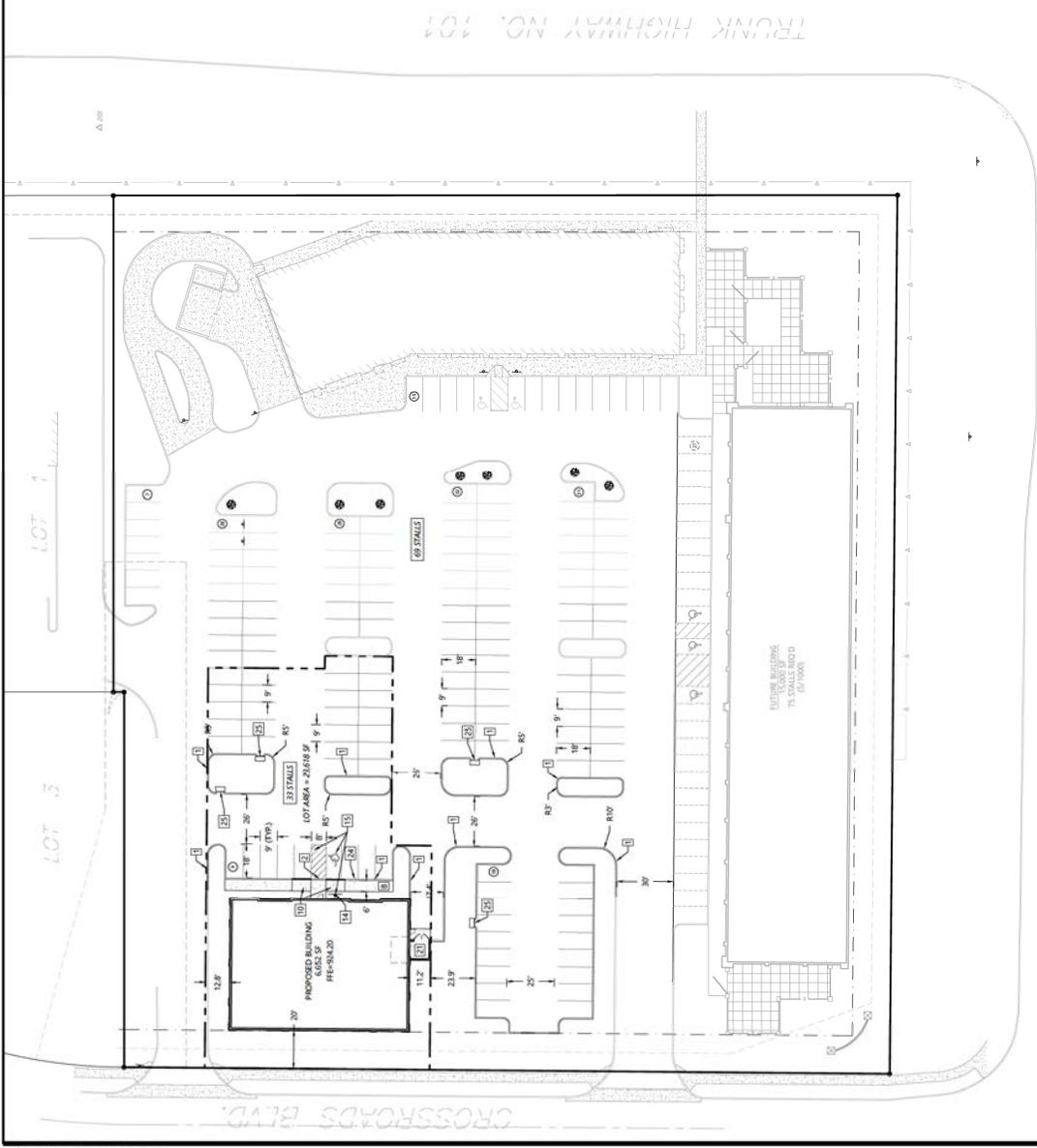


GENERAL SITE NOTES

1. BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL SERVICES, MINNETONKA, MN.
2. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ARE YOURS. THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
3. REFER TO BOUNDARY SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.
4. ALL DIMENSIONS ARE TO FACE OF CURB ON EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
5. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF EXITS, RAMPS, AND TRUCK DOORS.
6. ALL CURB RADI ARE SHALL BE 40 FEET TO FACE OF CURB UNLESS OTHERWISE NOTED.
7. ALL CURB AND GUTTER SHALL BE 8112 UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TRAFFIC CONTROL DEVICES, AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY PLACEMENT OF TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
9. BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
10. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
11. SITE LIGHTING SHALL BE PROVIDED AS SHOWN ON PLANS. REFER TO LIGHTING PLAN PREPARED BY OTHERS FOR SITE LIGHTING DETAILS AND PHOTOGRAPHIC.

SITE DEVELOPMENT SUMMARY

- ZONING: PUD - PLANNED UNIT DEVELOPMENT
- PARCEL DESCRIPTION: LOT 2, BLOCK 1, CROSSROADS OF CHANHASSEN, CARVER COUNTY, MINNESOTA
- OVERALL PROPERTY AREA: 191,408 SF (4.39 AC)
- NEW PARCEL AREA: 23,618 SF (0.54 AC)
- EXISTING IMPROVEMENTS: 167,790 SF (3.85 AC)
- IMPROVED SURFACE AREA: 10,608 SF (0.24 AC)
- PROPOSED IMPROVEMENTS: 80,745 SF (1.84 AC)
- IMPROVED SURFACE AREA: 10,608 SF (0.24 AC)
- BUILDING SPACING: 9' WORK X 18' LONG, 20' AISLE
- PARKING SPACE/DRIVE ANGLE: 304 - SEE PARKING CALCULATIONS
- TOTAL PUD PARKING PROVIDED



C.S.A.H. NO. 18 (LYMAN BOULEVARD)

GRADING PLAN



**CHANNASSEN, MN
 RETAIL**

DESIGNED BY: **DAVID T. BAKER**
 DATE: 09/24/2021
 CHECKED BY: [Signature]

PREPARED FOR: **KRAUS-ANDERSON REALTY COMPANY**
 MINNEAPOLIS, MN 55404

REVISIONS:	DATE:	DESCRIPTION:
06/10/2021	06/10/2021	WORKSHEET SUBMITTAL
06/22/2021	06/22/2021	WORKSHEET SUBMITTAL
06/22/2021	06/22/2021	WORKSHEET SUBMITTAL



NOT FOR CONSTRUCTION

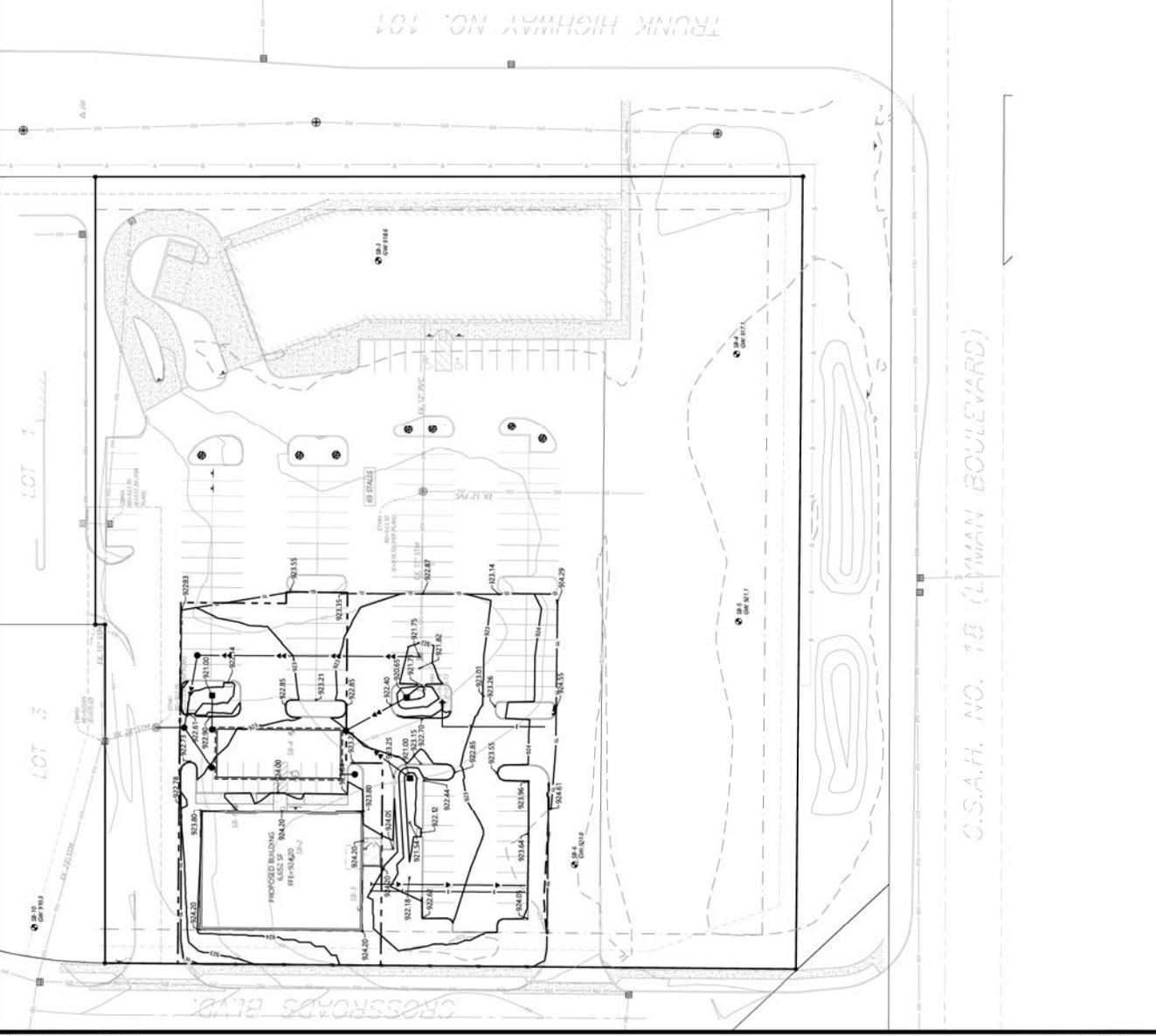
Call this office before digging:
811 or call 811.com
 to locate underground utilities

GRADING LEGEND

EXISTING	PROPOSED
PROPERTY LINE	INDEX CONTOUR
INTERNAL CONTOUR	CURB AND GUTTER
STORM SEWER	POD NORMAL WATER LEVEL
SAWTOOTH SEWER	HAZARD END SECTION (WITH HPMP)
RETAINING WALL	RETAINING WALL
RAIN TILE	DRAIN LINE
ROGUE LINE	GRADING LIMITS
SPOT ELEVATION	SPOT ELEVATION
FLOW DIRECTION	FLOW DIRECTION
TOP AND BOTTOM OF RETAINING WALL	TOP AND BOTTOM OF RETAINING WALL
EMERGENCY OVERFLOW	EMERGENCY OVERFLOW
SOIL BORING LOCATION	SOIL BORING LOCATION

GRADING NOTES

- LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- CONTRACTORS SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBLE, SLOPED PAVEMENT, EDIT PORCHES, PATIOS, TRUCK DOCKS, PRECISE LOCATIONS AND NUMBER OF DOWNPOUTS.
- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEER'S ASSOCIATION OF MINNESOTA.
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE SIX INCHES OF TOPSOIL AND SOIL ON SEED. CONTRACTOR SHALL PROVIDE A LANDSCAPE PLAN FOR PLANTING AND TURF ESTABLISHMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND CONE TRAFFIC CONTROL DEVICES THROUGHOUT THE PROJECT. THE LOCATION AND TYPE OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
- ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS SHEET.
- CONTRACTOR SHALL UNIFORM GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A FINISHED SURFACE WITHIN THE LIMITS OF THE GRADING. ELEVATIONS AND SLOPES SHALL BE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW GRADE.**
LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.
- SEE SOIL REPORT FOR PAVEMENT THICKNESSES AND HOLD-DOWNS.
- CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL THAT EXITS AFTER THE SITE HAS BEEN GRADDED TO THE FINISHED GRADE. ALL EXCESS SOIL MATERIAL IN A MANNER ACCEPTABLE TO THE OWNER AND THE REGULATING AGENCIES.
- CONTRACTOR SHALL PROVIDE A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT A PROOF ROLL AT MINIMUM WILL BE REQUIRED TO BE COMPLETED TO THE FINISHED GRADE. MINIMUM OF 2 COMPLETE PASSES WITH FULLY LOADED TANDDEM ANDLE DAMP TRUCK OR EQUIVALENT SHALL BE REQUIRED TO BE COMPLETED TO THE FINISHED GRADE. AREAS OF FAILURE SHALL BE EXCAVATED AND RE-COMPACTED AS SPECIFIED HEREIN.
- EMBANKMENT MATERIAL PLACED BENEATH BUILDINGS AND STREET OR PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3P2.
- EMBANKMENT MATERIAL NOT PLACED IN THE BUILDING PAD, STREET OR PARKING AREA SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3P2.
- ALL SOILS AND MATERIALS TESTING SHALL BE COMPLETED BY AN INDEPENDENT TESTING LABORATORY. THE TESTING LABORATORY SHALL BE LICENSED BY THE STATE OF MINNESOTA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND REPORTS WITH THE GEOTECHNICAL ENGINEER.



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RPBCWD STANDARD EROSION CONTROL NOTES

1. NATURAL TOPOGRAPHY AND SOIL CONDITIONS MUST BE PROTECTED, INCLUDING RETENTION OF NATIVE TOPSOIL TO THE GREATEST EXTENT POSSIBLE.
2. POSSIBLE EROSION CONTROL MEASURES SUCH AS ORGANIC MULCH, SAND, GRASS PRACTICES, AS SPECIFIED BY THE DISTRICT MUST BE USED ON SLOPES OF 3:1 (H:V) OR STEEPER TO PROVIDE ADEQUATE STABILIZATION.
3. FINAL SITE STABILIZATION MEASURES MUST SPECIFY THAT AT LEAST SIX INCHES OF TOPSOIL OR ORGANIC MATTER BE SPREAD AND INCORPORATED INTO THE UNDERLYING FINAL SITE TREATMENT WHETHER TOPSOIL HAS BEEN REMOVED.
4. CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE THICK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
5. ALL EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED SUFFICIENTLY TO ENSURE STABILITY OF THE SITE, AS DETERMINED BY THE DISTRICT.
6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE MAINTAINED THROUGHOUT CONSTRUCTION AND REMAINING PREVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 PSF. THE CONTRACTOR SHALL MAINTAIN RECORDS OF THE SOIL COMPACTION TESTING PRESSURE TO PROTECT UTILITIES, TREE ROOTS, AND OTHER EXISTING VEGETATION.
7. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS AFTER COMPLETION OF WORK. TEMPORARY OR PERMANENT VEGETATION CEASING ON AREAS THAT DRAIN TO AN IMPROVED WATER WITHIN 14 DAYS.
8. THE PERMITTEE MUST AT A MINIMUM, INSPECT, MAINTAIN AND REPAIR ALL DISTURBED SURFACES AND ALL EROSION AND SEDIMENT CONTROL FACILITIES AND SOIL STABILIZATION MEASURES EVERY DAY WORK IS PERFORMED ON THE SITE. THE PERMITTEE SHALL MAINTAIN A LOG OF ALL INSPECTIONS AND REPAIRS. REPAIRS SHALL BE MADE IMMEDIATELY UPON IDENTIFICATION OF DEFICIENCIES. THE PERMITTEE MUST REPAIR THESE RESPONSIBILITIES AT LEAST WEEKLY UNTIL VEGETATIVE COVER IS ESTABLISHED TO A SUFFICIENT DEGREE TO PROTECT THE DISTRICT'S INTERESTS. THE TOPSOIL TO BE INSTALLED AS PART OF THE SITE RESTORATION SHALL CONTAIN AT LEAST 5% ORGANIC CONTENT CONSISTENT WITH THE WATERSHED DISTRICT'S TOPSOIL DEFINITION.

GENERAL EROSION CONTROL NOTES

1. THE CONTRACTOR IS SPECIALLY CAUTIONED THAT THE LOCATION AND/OR DEPTH OF ANY UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. RECORDS OF THE VARIOUS UTILITY COMPANIES AND LIMITED MEASUREMENTS TAKEN IN THE FIELD, THE INFORMATION SHALL NOT BE RELIED ON AS BEING ACCURATE. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND THE CITY OF ANY DISCREPANCIES TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF DISCREPANCIES.
2. ALL SIX FT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION. CONSTRUCTION AND SHALL BE MAINTAINED UNTIL THE DISTRICT IS SATISFIED THAT THE EROSION CONTROL MEASURES ARE MAINTAINED AND/OR REMOVED AND SHALL BE CONSIDERED AS PART OF THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES, INCLUDING FIELD CONDITIONS, WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION. RECORDS SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO THE GRADING CONTRACT.
3. EROSION AND SEDIMENT CONTROL (ESC) THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL EROSION CONTROL MEASURES. THE CONTRACTOR SHALL USE THE BEST PRACTICES AVAILABLE TO PREVENT EROSION AND SEDIMENTATION. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES, INCLUDING FIELD CONDITIONS, WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION. RECORDS SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO THE GRADING CONTRACT.
4. ALL STREETS DISTURBED DURING WORKING HOURS MUST BE CLEANED AT THE END OF EACH WORKING DAY. A CONSTRUCTION ENTRANCE TO THE SITE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION TO MAINTAIN ACCESS TO THE SITE. ACCORDING TO DETAILS TO REDUCE TRACKING OF DIRT ONTO PUBLIC STREETS.
5. PONDING AREAS SHALL BE EXCAVATED FIRST AND USED AS TEMPORARY PONDING DURING CONSTRUCTION.
6. WHEN INSTALLING END-OF-LINE FLARED END SECTIONS, BRING THE SIX FT FENCE UP & OVER THE FLARED END SECTIONS & COVER DISTURBED AREAS WITH BP BMP. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES, INCLUDING FIELD CONDITIONS, WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION. RECORDS SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO THE GRADING CONTRACT.
7. ALL UNPAVED AREAS ALTERED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED WITH SEED AND MULCH. SOIL EROSION CONTROL, BLANKET OR BE HARD SURFACE WITHIN 2 WEEKS OF COMPLETION OF CONSTRUCTION.
8. THE SITE MUST BE STABILIZED PER THE REQUIREMENTS OF THE MPCA. NOTES:
 - A. TEMPORARY SEEDS PER ACRE SHALL BE MINIMUM SEED MW 22-111 AT 30.0 POUNDS PER ACRE.
 - B. TEMPORARY (LESS THAN 1 YEAR) SEED SHALL BE MINIMUM SEED MW 21-112 (FALL) OR 21-111 (SPRING/SUMMER) AT 100 POUNDS PER ACRE.
 - C. INFILTRATION/TREATMENT BASIN SHALL BE MINIMUM SEED MW 34-262 AT 14.5 POUNDS PER ACRE.
 - D. POND SLOPES SHALL BE MINIMUM SEED MW 33-261 AT 35 POUNDS PER ACRE.
 - E. GENERAL SEEDING SHALL BE MINIMUM SEED MW 25-151 AT 70 POUNDS PER ACRE.
 - F. MULCH SHALL BE MINIMUM TYPE I APPLIED AT 1 TONS PER ACRE.
9. FOR AREAS WITH SLOPES OF 3:1 OR GREATER, RESTORATION WITH 500 LB EROSION CONTROL, BLANKET IS REQUIRED.
10. ALL TEMPORARY STOOPLES MUST HAVE SIX FT FENCE INSTALLED AROUND THEM TO TRAP SEDIMENT.
11. ALL PERMANENT PONDS USED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION SHALL BE DESIGNED AFTER THE SITE HAS BEEN STABILIZED TO PREVENT THE POND TO BE EXPOSED TO FLOODING.
12. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES, INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
13. THE SITE MUST BE KEPT IN A WELL-DRAINED CONDITION AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES, INCLUDING LOW POINTS IN ROADWAYS OR BUILDING PADS MUST BE PROVIDED WITH A POSITIVE OUTSLOPE.
14. PUBLIC STREETS USED FOR HAULING SHALL BE KEPT FREE OF SOIL AND DEBRIS. STREET HAULING SHALL BE CONDUCTED WITH SIX FT FENCE.
15. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES, INCLUDING TO AVOID COMPACTION IN GREEN SPACE AREAS AND AREAS OF INSTANTATION.

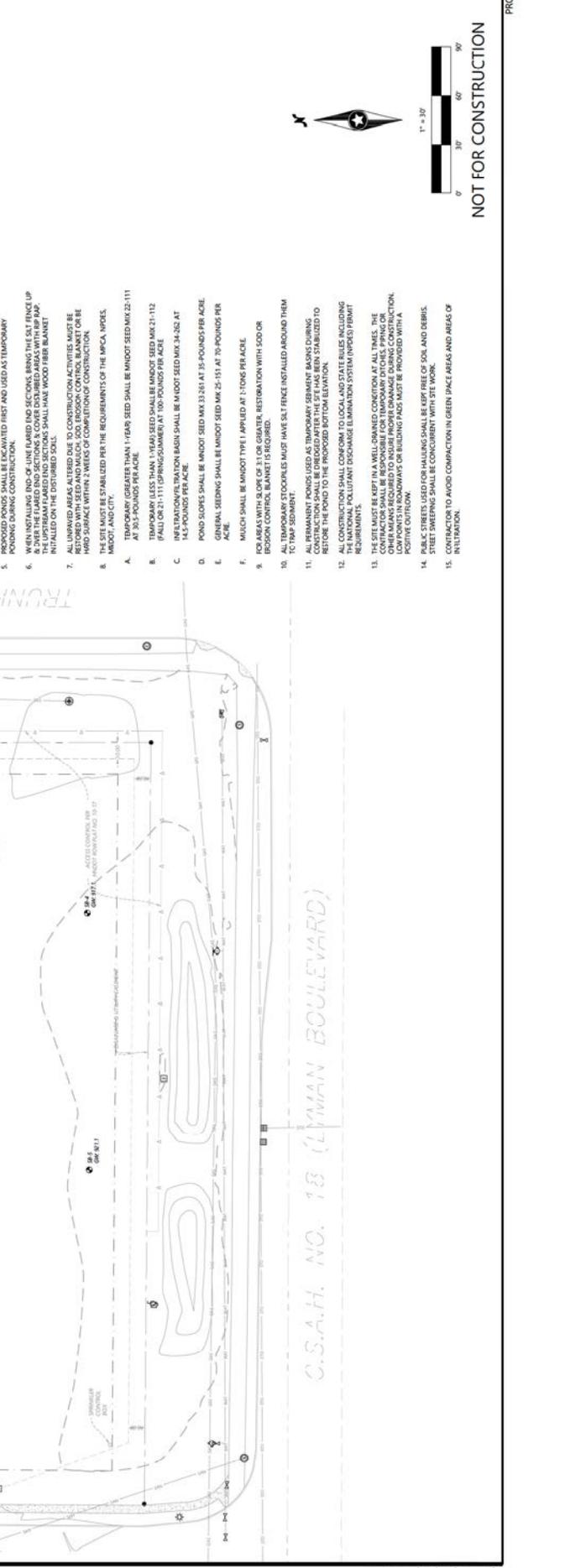
EROSION CONTROL LEGEND

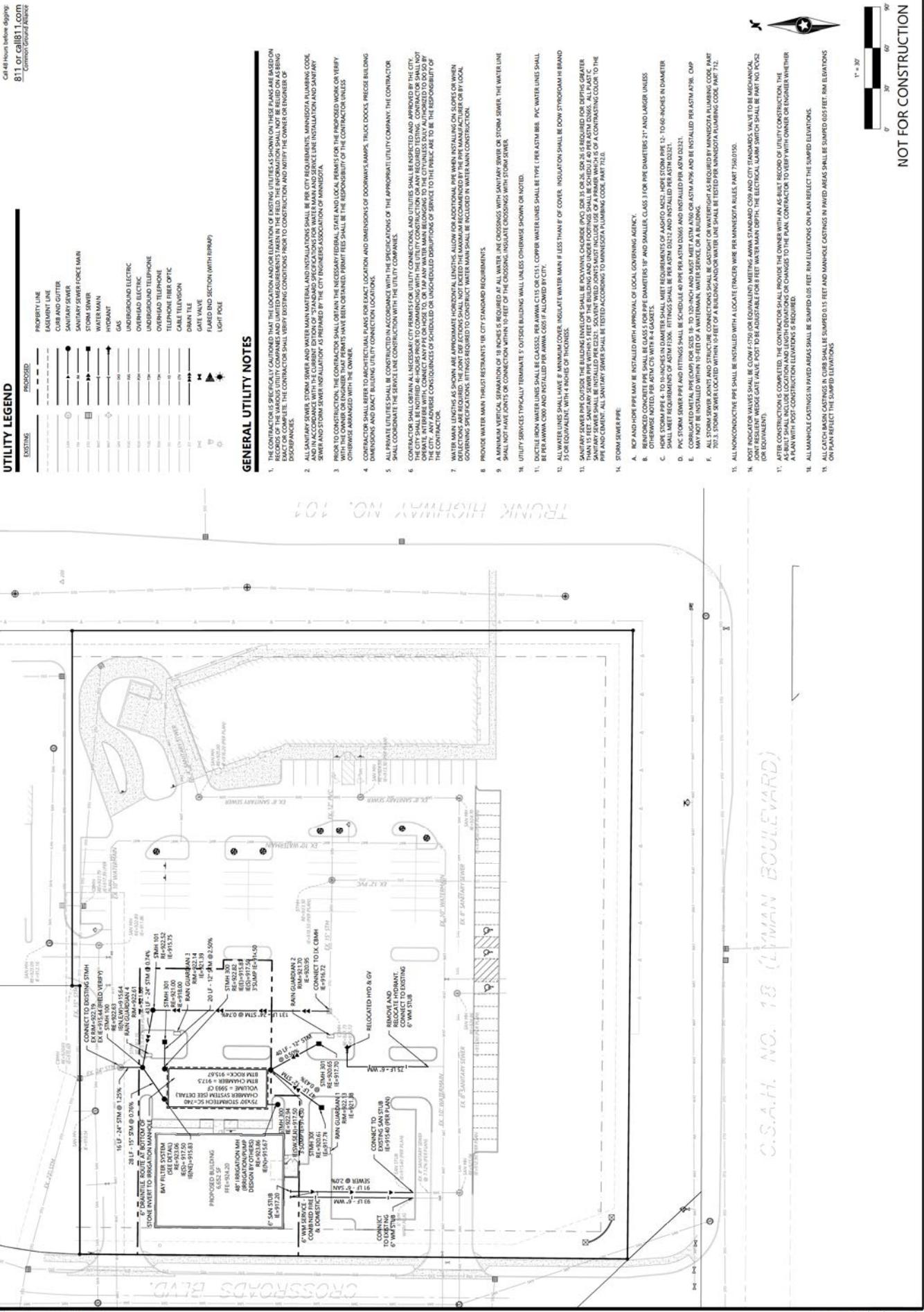
EXISTING

- PROPERTY LINE
- ROCKY LINE
- ROCK CONTOUR
- INTERNAL CONTOUR
- CURB AND GUTTER
- SIX FT FENCE
- STORM SEWER
- WATER MAIN
- SANITARY SEWER
- BRAIN TILE
- GRADING LIMITS
- POCK CONSTRUCTION ENTRANCE
- EMERGENCY OVERTHROW
- SOIL BORING LOCATION
- INLET PROTECTION
- ROCK LOG

PROPOSED

- PROPERTY LINE
- ROCKY LINE
- ROCK CONTOUR
- INTERNAL CONTOUR
- CURB AND GUTTER
- SIX FT FENCE
- STORM SEWER
- WATER MAIN
- SANITARY SEWER
- BRAIN TILE
- GRADING LIMITS
- POCK CONSTRUCTION ENTRANCE
- EMERGENCY OVERTHROW
- SOIL BORING LOCATION
- INLET PROTECTION
- ROCK LOG





UTILITY LEGEND

EXISTING	PROPOSED
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[Symbol]	[Symbol]

GENERAL UTILITY NOTES

1. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ORIENTATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND LIMITED MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF DISCREPANCIES.
2. ALL SANITARY SEWER, STORM SEWER AND WATER MAIN MATERIAL AND INSTALLATIONS SHALL BE PER CITY REQUIREMENTS, MINNESOTA PLUMBING CODE AND ANY LOCAL ORDINANCES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY FEDERAL, STATE AND LOCAL PERMITS FOR THE PROPOSED WORK OR VERIFY WITH THE OWNER OR ENGINEER THAT PERMITS HAVE BEEN OBTAINED. PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE ARRANGED WITH THE OWNER.
4. CONTRACTOR SHALL PREPARE ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF DOORWAYS, SANITARY TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY CONNECTION LOCATIONS.
5. ALL PRIVATE UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE SERVICE LINE CONSTRUCTION WITH THE UTILITY COMPANIES.
6. CONTRACTOR SHALL OBTAIN ALL NECESSARY CITY PERMITS FOR UTILITY CONNECTIONS, AND UTILITIES SHALL BE INSPECTED AND APPROVED BY THE CITY. THE CITY SHALL BE NOTIFIED 48-HOURS PRIOR TO COMMENCING WITH THE UTILITY CONNECTION OR ANY REQUIRED TESTING. CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY OF ANY DISCREPANCIES OR CHANGES TO THE PLANS. ANY ADVERSE CONSEQUENCES OF SERVICE TO THE PUBLIC ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. WATER MAIN LENGTHS AS SHOWN ARE APPROXIMATE HORIZONTAL LENGTHS. ALLOW FOR ADDITIONAL PIPE WHEN INSTALLING ON SLOPES OR WHEN UNDERPASSING OBSTACLES. THE CONTRACTOR SHALL VERIFY THE EXACT HORIZONTAL LENGTHS AND PROVIDE A MINIMUM OF 10% OVERSIGHT. ALL MATERIALS FOR CONSTRUCTION SHALL BE MANUFACTURED BY OR LOCAL GOVERNING AGENCIES. ALL MATERIALS USED FOR CONSTRUCTION SHALL BE INCLUDED IN WATER MAIN CONSTRUCTION.
8. PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
9. A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTION WITHIN 10 FEET OF THE CROSSING. INSULATE CROSSINGS WITH STORM SEWER.
10. UTILITY SERVICES TYPICALLY TERMINATE 5' OUTSIDE BUILDING WALL UNLESS OTHERWISE SHOWN ON NOTES.
11. EXISTING 8" SANITARY SEWER SHALL BE CLASSIFIED PER ASTM D2688-12 (OR D2121). COPPER WATER LINES SHALL BE TYPE 'M' PER ASTM B88. PVC WATER LINES SHALL BE PER ASTM D2688 AND INSTALLED PER ASTM D2121 AND D2231.
12. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES. INSULATE WATER MAIN IF LESS THAN 6" OF COVER. INSULATION SHALL BE DOW STYROFOAM II BRAND 2" THICK FOAMULINS WITH FANGS OF 1/2 INCHES.
13. SANITARY SEWER PIPE OUTSIDE THE BUILDING FOOTPRINT SHALL BE POLYETHYLENE GLASS REINFORCED (PEGR) 4" OR 6" OR 8" DIAMETER. PEGR SHALL BE USED FOR ALL 4" DIAMETER AND LARGER SANITARY SEWER. FITTINGS SHALL BE PER ASTM D2121 AND D2231. SOLVENT WELD JOINTS MUST INCLUDE USE OF A PRIMER WHICH IS OF A CONTRASTING COLOR TO THE PIPE AND CEMENT. ALL SANITARY SEWER SHALL BE TESTED ACCORDING TO MINNESOTA PLUMBING CODE PART 712.1.
14. STORM SEWER PIPE
 - A. 18" AND HIGHER PIPE MAY BE INSTALLED WITH APPROVAL OF LOCAL GOVERNING AGENCY.
 - B. REINFORCED CONCRETE PIPE SHALL BE CLASSIFIED PER ASTM D2688-12 (OR D2121) AND SMALLER CLASS 1 FOR PIPE DIAMETERS 21" AND LARGER UNLESS OTHERWISE NOTED. PER ASTM D2688-12 (OR D2121) WITH R-4 GASKETS.
 - C. HOPE STORM PIPE 4" TO 16-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF AASHTO M252. HOPE STORM PIPE 12" TO 46-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF ASTM F336. FITTINGS SHALL BE PER ASTM D2121 AND D2231.
 - D. STORM SEWER PIPE AND FITTINGS SHALL BE SCHEDULE 40 PER ASTM D2688 AND INSTALLED PER ASTM D2121.
 - E. 18" AND LARGER PIPE SHALL BE CLASSIFIED PER ASTM F336 AND INSTALLED PER ASTM D2121 AND D2231.
 - F. ALL STORM SEWER JOINTS AND STRUCTURE CONNECTIONS SHALL BE GASTIGHT ON WATERIGHT AS REQUIRED BY MINNESOTA PLUMBING CODE PART 702.3. STORM SEWER LOCATED WITHIN 10 FEET OF A BUILDING AND/OR WATER LINE SHALL BE TESTED PER MINNESOTA PLUMBING CODE PART 712.
15. ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (FRENCH WIRE PER MINNESOTA RULES, PART 750.0170).
16. STORM INDICATOR VALVES SHALL BE CLASSIFIED PER ASTM D2688-12 (OR D2121) AND CITY STANDARDS AND CITY STANDARDS. VALVE TO BE MECHANICAL. ALL WATER MAINS SHALL BE CLASSIFIED PER ASTM D2688-12 (OR D2121). ELECTRICAL LOAD SWITCH SHALL BE PER 101.102 (OR EQUIVALENT).
17. AFTER CONSTRUCTION OF CONNECTIONS, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AS-BUILT RECORD OF ALL UTILITY CONNECTIONS. THE AS-BUILT SHALL INCLUDE LOCATION AND LIMIT DIMENSIONS OR CHANGES TO THE PLAN. CONTRACTOR TO VERIFY WITH OWNER OR ENGINEER WHETHER A PLAN WITH POST-CONSTRUCTION ELEVATIONS IS REQUIRED.
18. ALL MANHOLE CASTINGS IN PAVED AREAS SHALL BE 0.65 FEET. RIM ELEVATIONS ON PLAN REFLECT THE SUMPED ELEVATIONS.
19. ALL CAST-IRON MANHOLE CASTINGS IN CURB SHALL BE SUMPED 0.15 FEET AND MANHOLE CASTINGS IN PAVED AREAS SHALL BE SUMPED 0.65 FEET. RIM ELEVATIONS ON PLAN REFLECT THE SUMPED ELEVATIONS.

CHANNASSEN RETAIL
RETAIL
CHANNASSEN, MN
DATE: 09/24/2021
PROJECT NUMBER: 0015032.00

UTILITY PLAN

SHEET NUMBER: C500

NOT FOR CONSTRUCTION

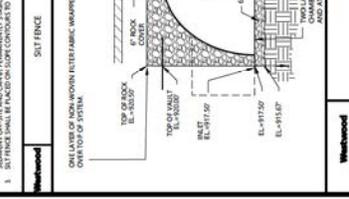
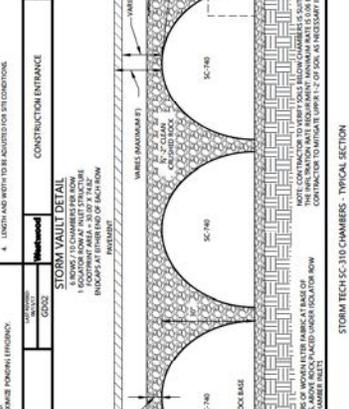
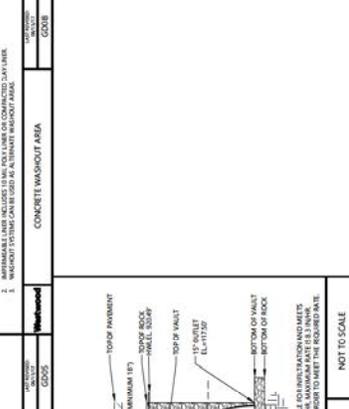
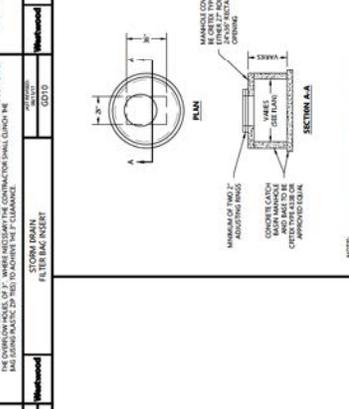
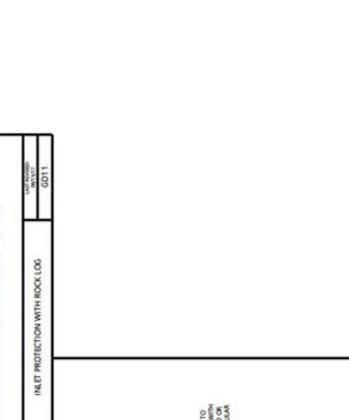
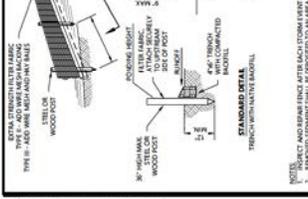
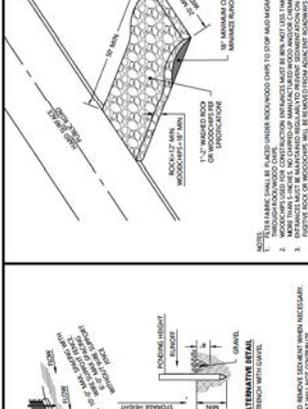
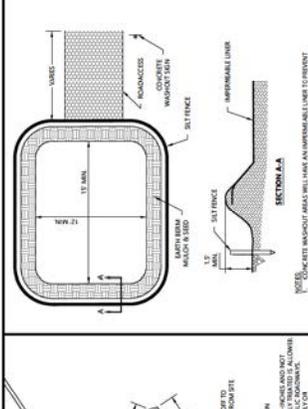
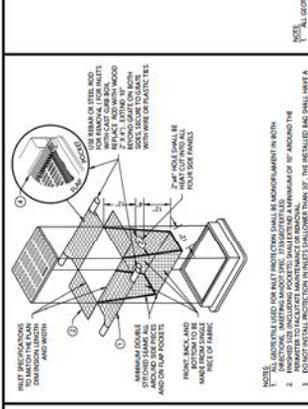
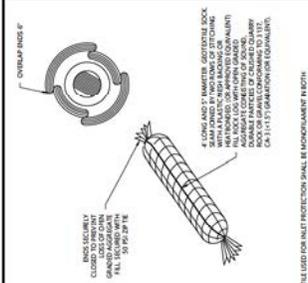
1" = 30'

0' 30' 60' 90'

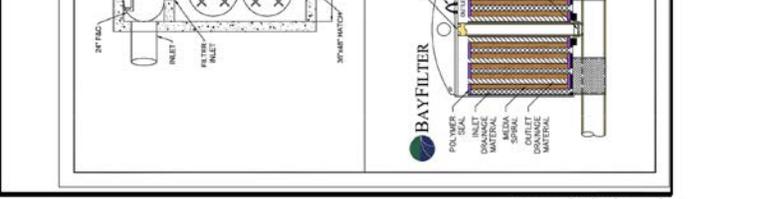
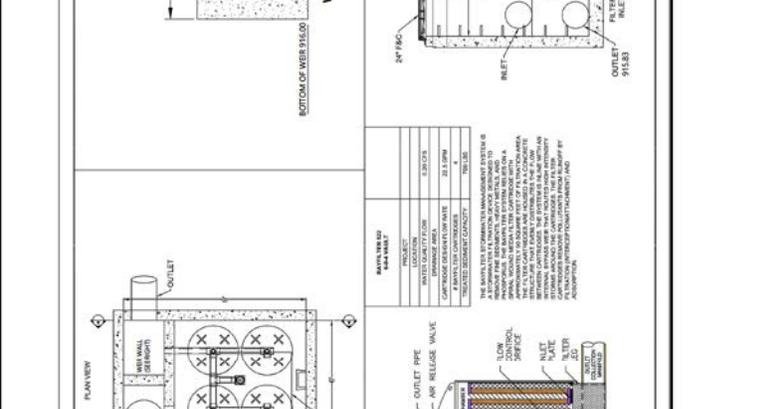
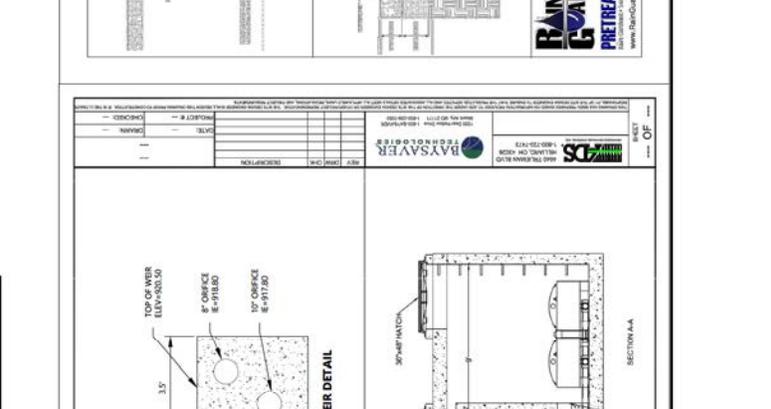
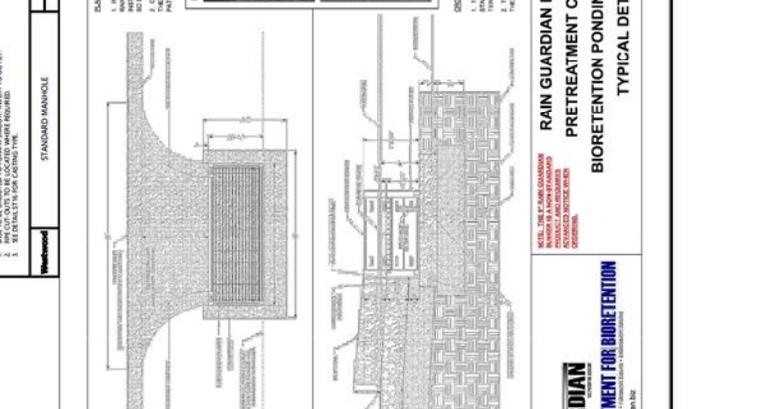
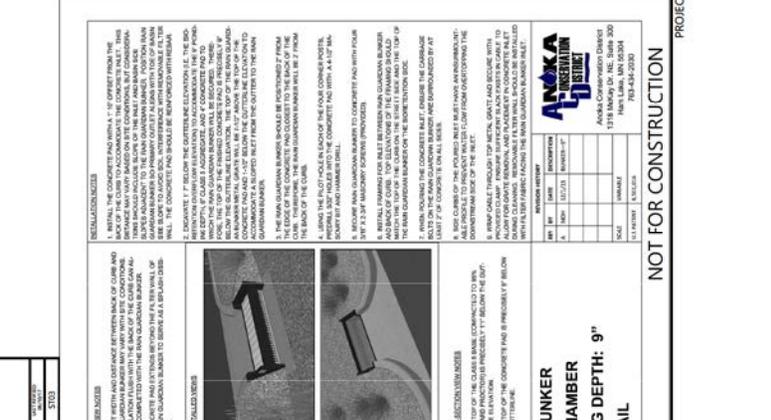
09/24/2021

0015032.00

CALL FOR BIDDING BEFORE SPLITTING
811 OR CALL 811.COM
CONNECTIONS TO UTILITIES

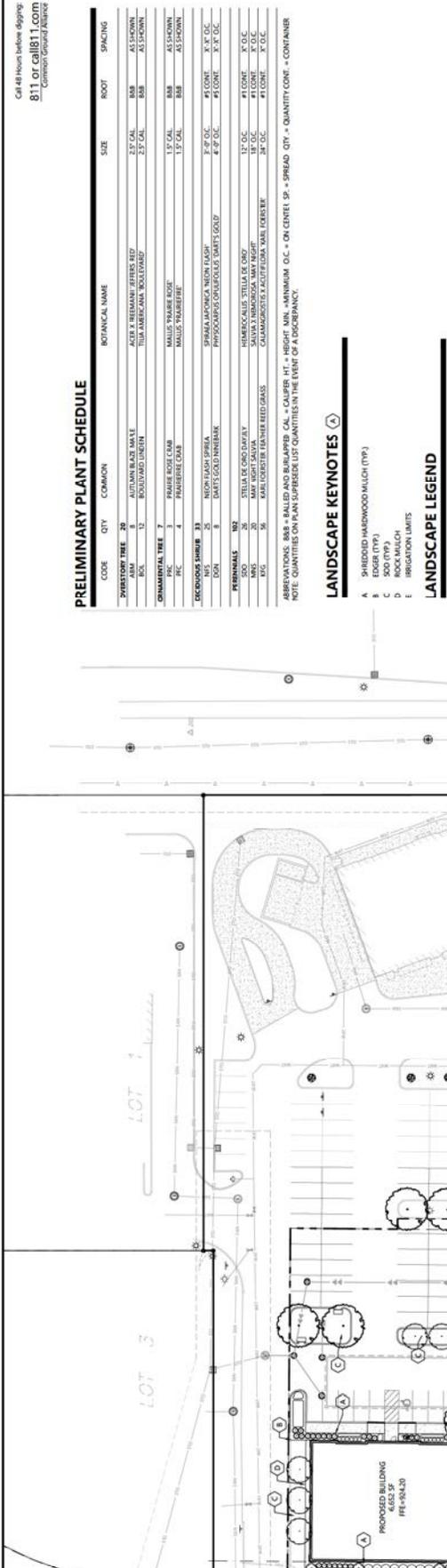


PREPARED FOR: KRAUS-ANDERSON REALTY COMPANY
MINNEAPOLIS, MN 55404
DRAWN BY: T. BAKER
DATE: 09/24/2021
CHECKED BY: J. HANSEN
DATE: 09/24/2021
DESIGNED BY: J. HANSEN
DATE: 06/10/2021



WESTWOOD PREPARED FOR: KRAUS-ANDERSON REALTY COMPANY
MINNEAPOLIS, MN 55404
DRAWN BY: T. BAKER
DATE: 09/24/2021
CHECKED BY: J. HANSEN
DATE: 09/24/2021
DESIGNED BY: J. HANSEN
DATE: 06/10/2021

WESTWOOD PREPARED FOR: KRAUS-ANDERSON REALTY COMPANY
MINNEAPOLIS, MN 55404
DRAWN BY: T. BAKER
DATE: 09/24/2021
CHECKED BY: J. HANSEN
DATE: 09/24/2021
DESIGNED BY: J. HANSEN
DATE: 06/10/2021



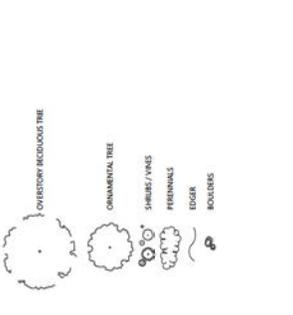
PRELIMINARY PLANT SCHEDULE

CODE	QTY	COMMON	BOTANICAL NAME	SIZE	ROOT	SPACING
EVERYBODY TREE 2P	2P	AUTUMN BURNING MAPLE	ACER X BURNING MAPLE	2.5" CAL	BAR	AS SHOWN
EVERYBODY TREE 1S	1S	BOWLED UNCLE SAM	TRIA AMERICANA WALKERBURY	2.5" CAL	BAR	AS SHOWN
EVERYBODY TREE 1T	1T	FRANKE ROSE CLAM	MALUS PRARIE ROSE	1.5" CAL	BAR	AS SHOWN
EVERYBODY TREE 1C	1C	FRANKE ROSE CLAM	MALUS PRARIE ROSE	1.5" CAL	BAR	AS SHOWN
EVERYBODY SHURB 3S	3S	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.
EVERYBODY SHURB 3C	3C	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.
EVERYBODY SHURB 3T	3T	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.
EVERYBODY SHURB 3C	3C	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.
EVERYBODY SHURB 3C	3C	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.
EVERYBODY SHURB 3C	3C	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.
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EVERYBODY SHURB 3C	3C	RED TWIG DOGWOOD	SPARGANAPURCA NODIFLORA	2" P. 2" D.C.	#1 CONT.	3' X 3' O.C.

LANDSCAPE KEYNOTES

- A SHREDDED HARDWOOD MULCH (TYP.)
- B EDGER (TYP.)
- C ROCK MULCH
- D IRRIGATION LIMITS
- E IRRIGATION LIMITS

LANDSCAPE LEGEND



WESTWOOD PREPARED FOR: KRAUS-ANDERSON REALTY COMPANY
501 SOUTH 8TH ST MINNEAPOLIS, MN 55404
DATE: 09/24/2021
SHEET NUMBER: L100

CHANNHASSEN, MN RETAIL
DATE: 09/24/2021
SHEET NUMBER: L100

Westwood Professional Services, Inc.
12724 WILKINSON DRIVE, SUITE 2000
MINNEAPOLIS, MN 55426
PHONE: (612) 835-4333
FAX: (612) 835-4334
WWW.WESTWOODPSI.COM

DATE: 09/24/2021
PROJECT NUMBER: 0015032.00

NOT FOR CONSTRUCTION



18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2021-051

Considered at Board of Managers Meeting: October 6, 2021

Received complete: August 25, 2021

Applicant: Schutrop Building and Development Corporation, Marty Schutrop

Consultant: Alliant Engineering, Mark Rausch

Project: Eagle Bluff: Proposed redevelopment of an existing single-family home site into two single-family residential lots. Proposed stormwater features include infiltration basin and infiltration trench.

Location: 9197 Eagle Ridge Road, Chanhassen, MN 55317

Reviewer: Scott Sobiech, P.E., Barr Engineering

Proposed Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the October 6, 2021 meeting of the managers:

Resolved that the application for Permit 2021-051 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report;

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2021-051 to the applicant on behalf of RPBCWD.

Upon vote, the resolutions were adopted, _____ [VOTE TALLY].

Applicable Rule Conformance Summary

Rule	Issue	Conforms to RBPCWD Rules?	Comments	
B	Floodplain Management and Drainage Alterations	Yes		
C	Erosion Control Plan	Yes		
D	Wetland and Creek Buffers	See comment.	See rule-specific permit condition D1 related to recordation of buffer maintenance declaration.	
J	Stormwater Management	Rate	Yes.	
		Volume	Yes	
		Water Quality	Yes.	
		Low Floor Elev.	Yes.	
		Maintenance	See comment.	See rule-specific permit condition J1 related to recordation of stormwater facility maintenance declaration.
		Chloride Management	Yes.	
		Wetland Protection	Yes.	
L	Permit Fee	Yes.	\$3,000 received June 30, 2021. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.	
M	Financial Assurance	See comment.	The financial assurance is calculated at \$22,113	

Background

The applicant is proposing a lot split subdividing an existing single residential lot into two lots. The existing home will remain, with construction of a new home on the second lot. An infiltration basin and infiltration trench are proposed to provide stormwater quantity, volume and quality control.

The water resources are within the project site or downgradient of the proposed activities are summarized in the following table. The table also provides a brief explanation of how each resource is implicated in the permit application review process.

Water resource impacted by project

Water Resource	Projected resource impacts
Wetland 1	A Wetland Conservation Act (WCA) protected wetland downgradient from proposed land-disturbing activities.
Wetland 2	A Wetland Conservation Act (WCA) protected wetland downgradient from proposed land-disturbing activities.

The project site information is summarized below:

Project Site Information	Area (acres)
Total Site Area	4.1
Existing Site Impervious	0.22
Disturbed Site Impervious Area	0.03 (14%)
Proposed Site Impervious Area	0.37
Change in Site Impervious Area	0.15 (68% increase)
Total Disturbed Area	0.47

The following materials were reviewed in support of the permit request:

1. Application received June 23, 2021 (Incomplete notice was sent on July 2, 2021; materials submitted to complete application on August 25, 2021)
2. Construction Plan Sheets (8 sheets) dated June 18, 2021 (revised August 2, 2021, August 25, 2021, September 20, 2021, and September 27, 2021)
3. "Eagle Bluff" Rezoning, Preliminary Subdivision and Final Plat Request Submittal Narrative dated June 18, 2021
4. Stormwater Management Plan dated June 18, 2021 (Revise August 2, 2021, and September 21, 2021)
5. Eagle Bluff Plat received June 23, 2021
6. Double Ring Infiltrometer Test Results, Lots 1 & 2 and Test pits by Haugo Geotechnical Services dated August 25, 2021
7. MNRAM Wetland Classification received June 23, 2021
8. Electronic HydroCAD models received on August 2, 2021 (revised August 25, 2021, Proposed conditions updated September 21, 2021)
9. Earthwork Computations for floodplain fill dated August 25, 2021 (revised September 20, 2021)
10. Engineers' opinion of probable cost received August 2, 2021 (revised August 25, 2021)
11. Response to RPBCWD review comments received August 2, 2021
12. Response to RPBCWD review comments received August 25, 2021

13. Response to RPBCWD review comments received September 21, 2021
14. Response to RPBCWD review comments received September 27, 2021
15. Draft maintenance declarations for Lots 1 and 2 received August 2, 2021 (revised August 25, 2021 and September 21, 2021; Lot 2 revised September 27, 2021)
16. Wetland 1 Floodplain Filled Calculation dated September 21, 2021

Rule B: Floodplain Management and Drainage Alterations

Because the proposed construction of the infiltration basin involves the placement of a total of 20 cubic yards of fill below the 100-year flood elevation of Wetland 1 (el. 916.29 msl), the project activities must conform to the RPBCWD’s Floodplain Management and Drainage Alterations rule (Rule B).

Because the project proposes construction of a new structure, the project must conform with low floor elevation requirements set forth by Rule B, Subsection 3.1. All new buildings must be constructed such that the lowest floor is at least two feet above the 100-year high-water elevation or one foot above the natural overflow of a waterbody. The low floor elevation of the proposed building as well as the 100-year flood elevation and emergency overflow of Wetland 1 are summarized below. Because the low floor elevation of the proposed building is more than one foot above the proposed natural overflow of Wetland 1, the proposed project is in conformance with Rule B, Subsection 3.1.

Structure Location	Low Floor Elevation of Proposed Building (feet)	Natural Overflow Elevation (EOF) (feet)	Freeboard to Natural Overflow (feet)
Lot 2	917.4	916.37	1.03

Placement of fill below the 100-year flood elevation is prohibited unless fully compensatory flood storage at or below the same elevation and within the floodplain of the same water basin is provided (Rule B, Subsection 3.2). The supporting materials demonstrate, and the RPBCWD Engineer concurs, that 20 cubic yards of fill will be placed to facilitate the construction of a small berm for the infiltration basin, and 95 cubic yards of compensatory storage will be created below the 100-year floodplain by the construction of the infiltration basin, thus providing a net increase in the floodplain storage and the project conforms to Rule B, Subsection 3.2.

The engineer concurs with the applicant provided runoff modeling results that demonstrate the proposed project will decrease the flow rates leaving the site relative to existing conditions (see the rate control analysis in Rule J below). Because the proposed flow rates leaving the site will be lower than existing flow rates the project is not reasonably likely to adversely impact off-site flood risk or channel stability. As a surrogate for water quality modeling the applicant provided infiltration testing to demonstrate the soil has the capacity to abstract 1.1 inches of runoff from the impervious surfaces on the site. The engineer concurs that abstraction of 1.1 inches of runoff from the impervious surfaces means that the project is not reasonably likely to have adverse impact to water quality. This also

supports the engineer's determination that the project is not reasonably likely to adversely affect flood risk, basin or channel stability, groundwater hydrology, stream base flow, water quality or aquatic or riparian habitat, meeting Rule B, subsection 3.3. Because no watercourses exist on the site, the creekside restriction requirements set forth by Rule B, Subsection 3.4 do not impose requirements on the project. See Rule C analysis of the applicants submitted erosion control plan to demonstrate conformance with Rule B, Subsection 3.5. A note on the plans indicates that activities must be conducted to minimize the potential transfer of aquatic invasive species conforming to Rule B, Subsection 3.6.

The proposed project conforms to the floodplain management and drainage alteration requirements of Rule B.

Rule C: Erosion and Sediment Control

Because the project will involve 0.47 acres of land-disturbing activity, the project must conform to the requirements in the RPBCWD Erosion and Sediment Control rule (Rule C, Subsection 2.1). The erosion control plan prepared by Alliant Engineering, Inc. includes installation of perimeter control (silt fence or sediment control logs), a stabilized rock construction entrance, inlet protection, daily inspection, staging areas, placement of a minimum of 6 inches of topsoil (at 5% organic matter), decompaction of areas compacted during construction, and retention of native topsoil onsite to the greatest extent possible. The Erosion and Sediment Control plan sheet indicates that Marty Schutrop, Schutrop Building and Development Corporation (612-840-8251) is responsible for erosion prevention and sediment control for the site.

The proposed project is in conformance with RPBCWD's Rule C.

Rule D: Wetland and Creek Buffers

Because the proposed work triggers a permit under RPBCWD Rules B and J and wetlands protected by the state Wetland Conservation Act are downgradient from (but not disturbed by) the proposed construction activities, Rule D, Subsections 2.1a and 3.1 require buffer on the edges of the wetlands that are downgradient from the land-disturbing activities.

The Wetland Delineation Report and MnRAM analysis submitted indicate that the wetlands onsite are medium value wetlands. Rule D, Subsection 3.1.a.iii requires wetland buffer with an average of 40 feet from the delineated edge of the wetland, minimum 20 feet for medium value wetlands. The buffer widths are summarized in the table below.

Wetland ID	RPBCWD Wetland Value	Required Minimum Width (ft)	Required Average Width (ft)	Required Area (sq ft)	Provided Area (sq ft)	Provided Minimum Width (ft)	Provided Average Width (ft)
Wetland 1	Medium	20	40	17,451	17,660	20	40.5
Wetland 2	Medium	20	40	18,678	20,862	20	44.7

The Tree Canopy Coverage/Restoration Plan (sheet 7 of 8) indicates all disturbed areas within the buffer will be revegetated using a native seed mix conforming to Rule D, Subsection 3.3. The engineer’s review of plan sheets shows that buffer markers will be placed per District criteria (subsection 3.4). A note is included on the plan sheet indicating the project will be constructed so as to minimize the potential transfer of aquatic invasive species (e.g., zebra mussels, Eurasian watermilfoil, etc.) to the maximum extent possible conforming to Rule D, Subsection 3.6.

To conform to RPBCWD Rule D the following revisions are needed:

- D1. Buffer areas and maintenance requirements must be documented in a declaration recorded after review and approval by RPBCWD in accordance with Rule D, Subsection 3.5.

Rule J: Stormwater Management

Because the project will disturb 0.47 acres of land-surface area, the project must meet the criteria of RPBCWD’s Stormwater Management rule (Rule J, Subsection 2.1). The criteria listed in Subsection 3.1 will apply to the entire project site because the project will increase the imperviousness of the entire site by 68 percent (Rule J, Subsection 2.3).

The developer is proposing construction of an infiltration basin and infiltration trench to provide rate control, volume abstraction and water quality management on the site.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the disturbed site area are summarized in the table below. The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.a.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Northeast	<0.1	<0.1	0.1	0.1	0.5	0.5	<0.1	<0.1
South	1.4	1.3	3.1	3.0	8.8	8.5	0.5	0.5

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from all new or disturbed impervious surface of the parcel. An abstraction volume of 1,477 cubic feet is required from the 0.37 acres (16,117 square feet) of new and reconstructed impervious area on the site for abstraction.

Test pits performed by Huago Geotechnical Services on August 19, 2021 show that soils in the project area are primarily lean clay and sandy lean clay. Huago Geotechnical Services conducted two double-ring infiltration tests, one at the proposed infiltration basin and a second at the infiltration trench resulting in a measured infiltration rates of 0.65 inches per hour (in/hr) and 1.1 in/hr, respectively. The engineer concurs with the applicant’s design infiltration rate of 0.4 in/hr for the infiltration basin and and 0.7 in/hr infiltration trench, which are lower than the measure rate to provide a factor of safety. The engineer concurs that the basins will draw down within 48 hours (Rule J, subsection 3.1b.3). The table below summarizes the volume abstraction for the site based on the design infiltration rate.

Volume abstraction summary

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
1.1	1,477	1.3	1,763

Turfgrass filter strips will serve as pretreatment for runoff into the infiltration basin and infiltration trench (Rule J, Subsection 3.1.b.1). Groundwater was not encountered at test pits TP-1 and TP-2, which are located at the infiltration basin and infiltration trench. The bottom of the test pits (TP-1 and TP-2) are 907 and 905.5, respectively. The following table demonstrates that the proposed design provided adequate separation between the bottom of the stormwater facilities and the groundwater (Rule J, Subsection 3.1.b.2.a).

Stormwater Facility	Bottom Elevation (feet)	Groundwater Elevation (feet)	Separation (feet)
Infiltration Basin	913	907	6
Infiltration Trench	909.5	905.5	4

¹ No groundwater observed at the bottom of the test pits

The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.b.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant provide volume abstraction in accordance with 3.1b or least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff, and no net increase in TSS or TP loading leaving the site from existing conditions. Because the BMPs proposed by the applicant provide volume abstraction that meets the standard in 3.1b, the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.1.c.

Low floor Elevation

All new buildings must be constructed such that the lowest floor is at least two feet above the 100-year high water elevation or one foot above the emergency overflow of a stormwater-management facility according to Rule J, Subsection 3.6a. In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with this requirement, according to Rule J, Subsection 3.6b. Also, any new structure within a landlocked basin must be constructed such that the lowest floor elevation is (a) one foot above the surface overflow or (b) two feet above the back-to-back 100-year or snowmelt event high water level, whichever is higher. The low floor elevation of the homes and the adjacent stormwater management feature is summarized below and shows proposed project is in conformance with Rule J, Subsection 3.6.

Lot Riparian to Stormwater Facility	Low Floor Elevation of Building (feet)	Adjacent Stormwater Facility	100-year Event Flood Elevation of Adjacent Stormwater Facility (feet)	Freeboard to 100-year Event (feet)	Landlocked Basin Surface Overflow Elevation (feet)	Freeboard to Surface Overflow (feet)
Proposed House	917.4	Infiltration Basin	916.29	1.11	916.37	1.03
Existing House	917.3	Infiltration Trench	912.05	5.25	NA	NA

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. The Applicant provided a draft maintenance and inspection declarations review that conform to the maintenance and inspection required by Rule J, Subsection 3.7.

- J1. Permit applicant must provide a proof of recordation of the maintenance and inspection declaration as a condition of issuance of the permit.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. The RPBCWD chloride-management plan requirement applies to the streets and common areas of the project site, but not the individual single-family homes. Because there are no street or common areas, Rule J, subsection 3.8 does not impose requirements on this project.

Wetland Protection

Because the proposed activities discharge to a protected wetlands (Wetland 1 and Wetland 2) on the site and alter the discharge the wetland receives from the site, the proposed activities must conform to RPBCWD wetland protection criteria (Rule J, subsection 3.10). Wetland 1 and Wetland 2 fall in the medium value category. In accordance with Rule J, subsection 3.10a, there is no proposed activity subject to Rule J that will alter the site in a manner that increases the bounce in water level, duration of inundation, or change the runout elevation in the subwatershed for the wetland receiving runoff from the land disturbing activities. Because the applicant's HydroCAD model results demonstrate, and the engineer concurs, that the proposed flow rate and volumes flowing towards the wetlands are less than the under existing conditions, the bounce and inundation will not increase, thus the project meets the Bounce and Inundation criterion.

Rule J, Subsection 3.10b requires that treatment of runoff to medium value wetlands meet the water quality treatment criteria in Rule J, subsection 3.1c. Because the proposed subsurface stormwater management system provides the volume abstraction required in accordance with 3.1b, the proposed system complies with water quality criteria 3.1ci, thus the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.10b.

Rule L: Permit Fee Deposit:

The RPBCWD permit fee schedule adopted in February 2020 requires permit applicants to deposit \$3,000 to be held in escrow and applied to cover the \$10 permit-processing fee and reimburse RPBCWD for permit review and inspection-related costs and when a permit application is approved, the deposit must be replenished to the applicable deposit amount by the applicant before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules. A permit fee deposit of \$3,000 was received on July 20, 2021. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. Subsequently, if the costs of review, administration, inspections and closeout-related or other regulatory activities exceed the fee deposit amount, the applicant will be required to replenish the deposit to the original amount or such lesser amount as the RPBCWD administrator deems sufficient within 30 days of receiving notice that such deposit is due. The administrator will close out the relevant application or permit and revoke prior approvals, if any, if the permit-fee deposit is not timely replenished.

L1. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.

Rule M: Financial Assurance:

	Unit	Unit Cost	# of Units	Total
Rules C: Silt fence:	LF	\$2.50	1,014	\$2,535
Inlet protection	EA	\$100	0	0
Rock Entrance	EA	\$250	1	\$250
Restoration	Ac	\$2,500	0.47	\$1,175
Rules D: Wetland and Creek Buffer	LS	\$5,000	1	\$5,000
Rules J: Stormwater Management Infiltration basin and infiltration trench: 125% of engineer's opinion of cost (\$8,914)	EA	125% OPC	1	\$11,143
Contingency (10%)		10%		\$2,010
Total Financial Assurance				\$22,113

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed above and on the permit. The granting of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
3. The grant of the permit does not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
4. The issuance of this permit does not convey any rights to either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
5. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.
6. RPBCWD's determination to issue this permit was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.
7. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
2. The proposed project conforms to Rules B and C.
3. The proposed project will conform to Rules D and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

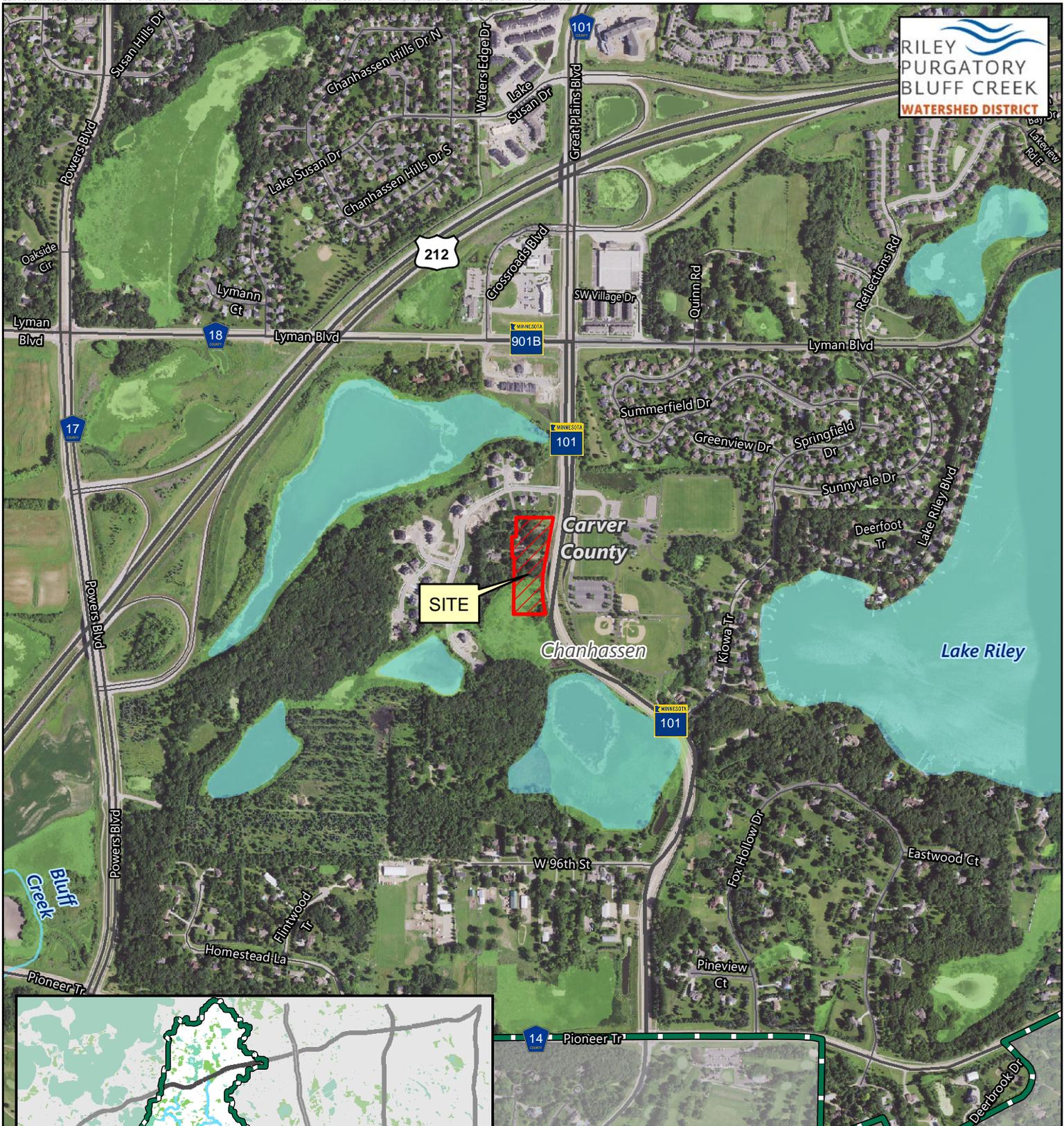
Approval of the permit issuance contingent upon:

1. Financial Assurance in the amount of \$22,113.
2. Receipt in recordation a maintenance declaration for the stormwater management facilities and buffers. Drafts of any and all documents to be recorded must be approved by the District prior to recordation. Permit applicant must provide a proof of recordation as a condition of issuance of the permit.
3. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Continued compliance with General Requirements.
2. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization, all stormwater management facilities conform to design specifications and function as intended and approved by the District. As-built/record drawings must be signed by a professional engineer licensed in Minnesota and include, but not limited to:
 - a) the surveyed bottom elevations, water levels, and general topography of all facilities;
 - b) the size, type, and surveyed invert elevations of all stormwater facility inlets and outlets;
 - c) the surveyed elevations of all emergency overflows including stormwater facility, street, and other;
 - d) other important features to show that the project was constructed as approved by the Managers and protects the public health, welfare, and safety.
 - e) photographic evidence of buffer marker locations indicated by permanent, free-standing markers in accordance with Rule D, Subsection 3.4 criteria.
3. Providing the following additional close-out materials:
 - a) Documentation that constructed infiltration and filtration facilities perform as designed. This may include infiltration testing, flood testing, or other with prior approval from RPBCWD
 - b) Documentation that disturbed pervious areas remaining pervious have been decompacted per Rule C.2c criteria

4. The work on the Eagle Bluff parcel under the terms of permit 2021-051, if issued, must have an impervious surface area and configuration materially consistent with the approved plans. Design that differs materially from the approved plans (e.g., in terms of total impervious area) will need to be the subject of a request for a permit modification or new permit, which will be subject to review for compliance with all applicable regulatory requirements.



RILEY
PURGATORY
BLUFF CREEK
WATERSHED DISTRICT

Permit Location Map



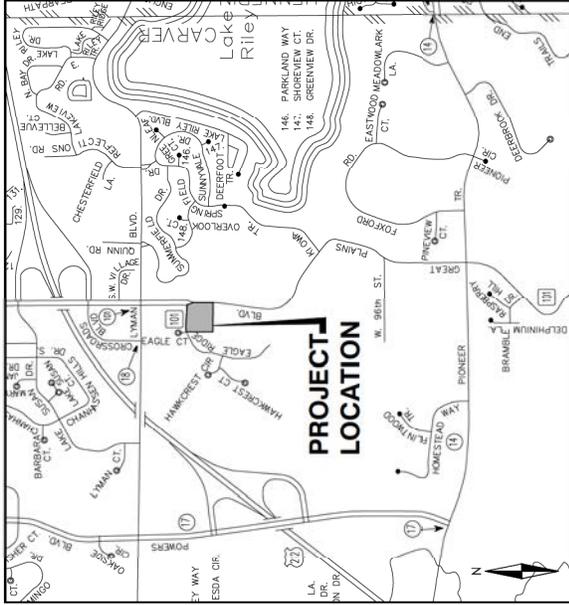
Feet



EAGLE BLUFF
Permit 2021-051
Riley Purgatory Bluff Creek
Watershed District

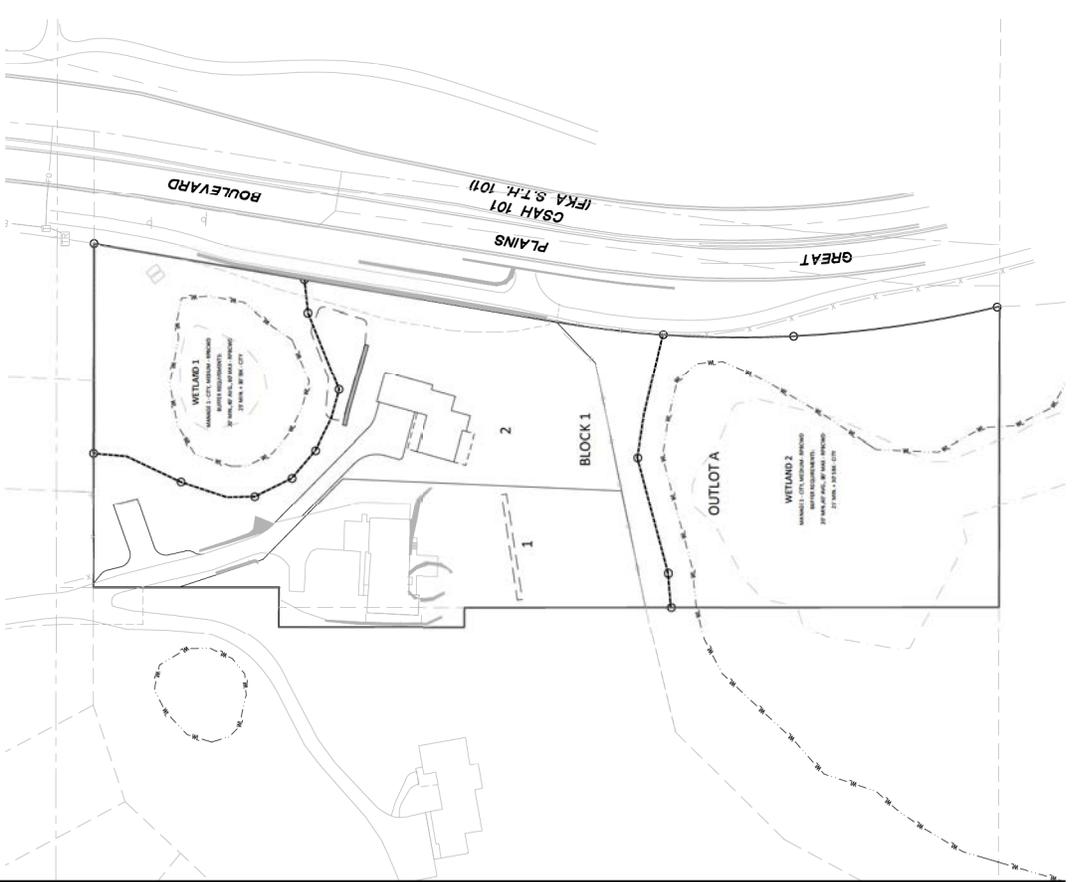
EAGLE BLUFF CHANHASSEN, MINNESOTA

ALLIANT
733 Marquette Avenue
Suite 700
Minneapolis, MN 55402
612.758.3080
www.alliant-inc.com



VICINITY MAP
NOT TO SCALE

SHEET INDEX	NO.
COVER SHEET	1
EXISTING CONDITIONS SURVEY	2
DETAILS	3
SITE AND UTILITY PLAN	4
GRADING, DRAINAGE AND EROSION CONTROL PLAN	5
TREE CATCH FENCE & RESTORATION PLAN	6
WETLAND MANAGEMENT PLAN	7

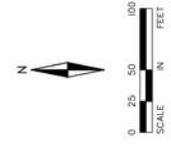


DEVELOPER
SCHUTROP BUILDING &
DEVELOPMENT CORPORATION
540 LAKOTA LANE
CHANHASSEN, MN 55318
CONTACT: MARTY SCHUTROP

CONSULTANT
ALLIANT ENGINEERING, INC.
733 MARQUETTE AVENUE
SUITE 700
MINNEAPOLIS, MN 55402
PH: 612-758-3080
FX: 612-758-3099

ENGINEER
MARK RAUSCH
LICENSE NO. 43480
EM: mrausch@alliant-inc.com

SURVEYOR
DAN EKREM
LICENSE NO. 57366
EM: dekrem@alliant-inc.com



EAGLE BLUFF
CHANHASSEN, MN
CONSTRUCTION DOCUMENTS
COVER SHEET

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

 MARK RAUSCH, P.E.
 LICENSE NO. 43480
 EXPIRES 12/31/21
 LICENSE NO. 57366
 EXPIRES 12/31/21
 QUALITY ASSURANCE/CONTROL
 DATE: _____
 ISSUE: _____
 PROJECT NO. 221-0054
 PROJECT TEAM DATA
 DESIGNED: MPR
 DRAWN: TJS
 CHECKED: _____

1
SCALE: 1" = 50'
SHEET 1 OF 7

EXISTING CONDITIONS SURVEY

LEGAL DESCRIPTION

Tract A:
 That part of the south 732.28 feet of the North 762.28 feet of the Southwest Quarter of the Southwest Quarter, Section 24, Township 116 North, Range 23 West, Carver County, Minnesota, lying east of the west 271.79 feet thereof and west of the east 16.00 feet of the west 271.79 feet thereof, and that part of the south 732.28 feet of the North 762.28 feet of the Southwest Quarter of the Southwest Quarter, Section 24, Township 116 North, Range 23 West, Carver County, Minnesota, lying south of the north 300.00 feet thereof.

Tract B:
 That part of the west 271.79 feet of the North 762.28 feet of the Southwest Quarter of the Southwest Quarter, Section 24, Township 116 North, Range 23 West, Carver County, Minnesota, and that part of the North 300.00 feet of said section 24, Township 116 North, Range 23 West, Carver County, Minnesota, lying west of the west 271.79 feet thereof and east of the east 16.00 feet of the west 271.79 feet thereof.

Tract C:
 That part of the north 300.00 feet of the east 16.00 feet of the west 271.79 feet of the Southwest Quarter of the Southwest Quarter, Section 24, Township 116 North, Range 23 West, Carver County, Minnesota, lying south of the north 165.00 feet thereof.

EXCEPTING from the above Tracts A and B the following:
 1. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.
 And also excepting:
 1. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.
 2. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.
 3. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.
 4. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.
 5. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.
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 7. The area of the above described property as shown on the Minnesota Department of Transportation Right of Way Plan Numbered 16-47, Carver County, Minnesota, on file and of record in the office of the County Recorder in and for Carver County, Minnesota.

NOTES

- The bearings and distances shown on this plan were obtained by a survey conducted by Alliant Engineering, Inc. on January 27, 2021.
- The locations of underground utilities are depicted based on information from Cooper State One Call system for a 10-foot depth. The locations of underground utilities shown on this plan are not shown to scale and are not intended to be used for construction or design.
- The orientation of this bearing system is based on the Carver County Coordinate System (NAD83 (86 AXL)).
- All distances are in feet.
- The area of the above described property is 176,628 square feet or 4.1 acres.
- Remarks: Top out of system on the northwest side of the southern side of the southern most old-beats of Eagle Ridge Road is a minimum of 400 feet MVDGL.
- Wetlands shown herein were delineated by Kibbaly Environmental Services.

LEGEND

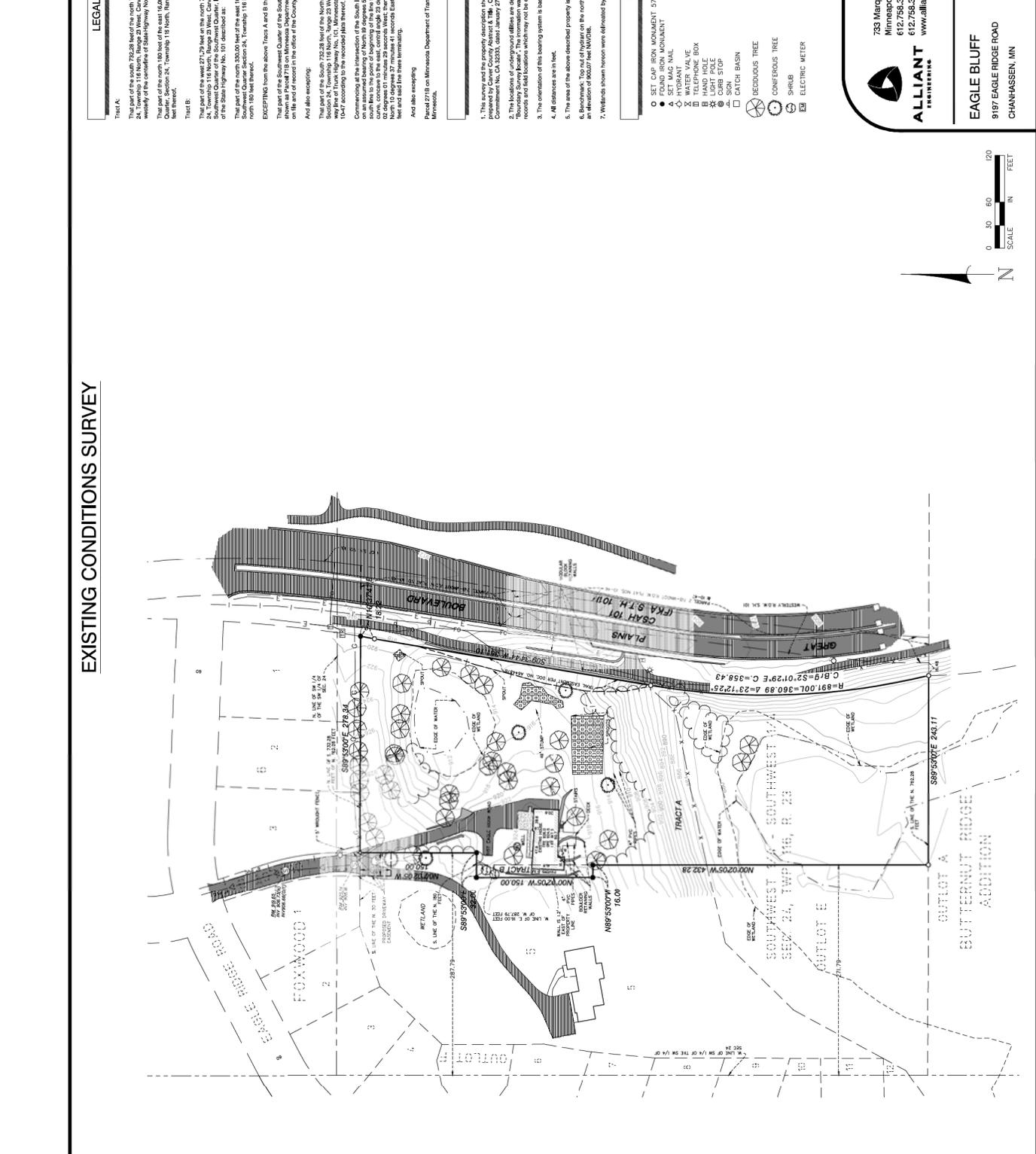
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- SET IRON MONUMENT
- ▲ SET WAG NAIL
- △ HYDRANT
- WATER TANK
- WATER METER BOX
- HAND HOLE
- LIGHT POLE
- SIGN STOP
- SIGN
- CATCH BASIN
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- ELECTRIC METER
- UNDERGROUND GAS
- UNDERGROUND WATER
- SANITARY SEWER
- UNDERGROUND ELECTRIC
- UNDERGROUND FIBER OPTICS
- FENCE
- WETLAND DELINEATION
- EDGE OF WATER
- EDGE OF TREES
- IRON MONUMENT
- CHURN AREA
- CONCRETE

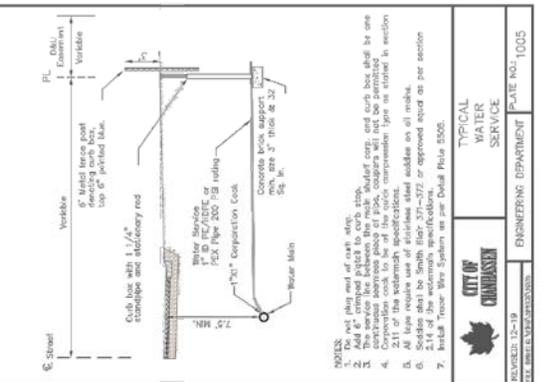
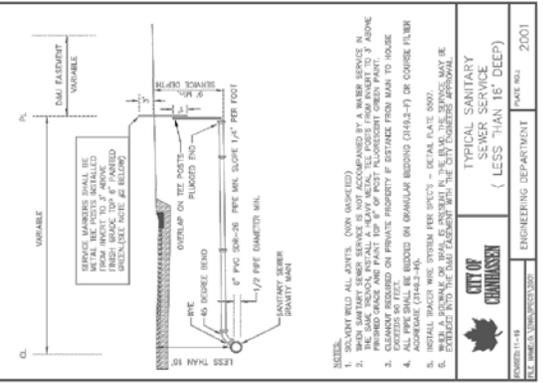
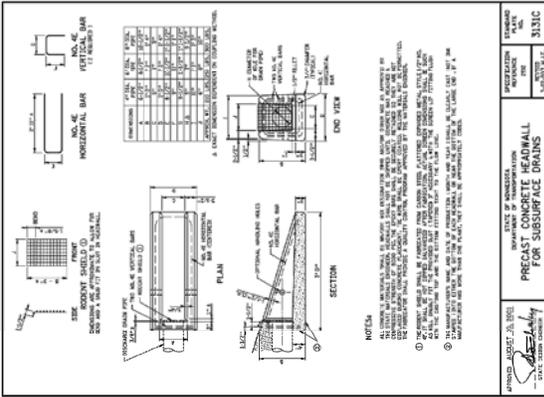
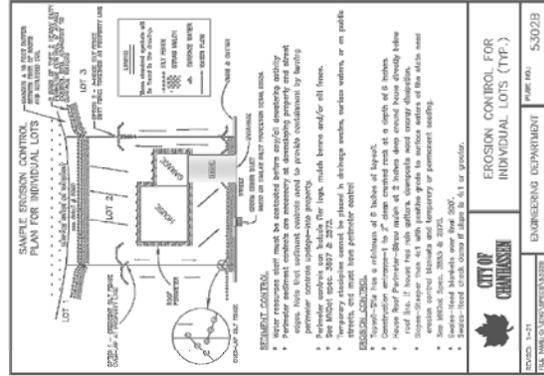
ALLIANT ENGINEERING
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 Minneapolis, MN 55402
 612.758.3090 FAX
 612.758.3099 FAX
 www.alliantinc.com

DANIEL P. BOBEM
 Professional Engineer
 License Number: 57296
 Date: JUNE 17, 2021

EAGLE BLUFF
 9187 EAGLE RIDGE ROAD
 CHANHASSEN, MN

DRAWN BY	PF
CHECKED BY	DE
DATE ISSUED	8/17/21
SCALE	1"=60'
JOB NO.	21-0141
FIELD	DD

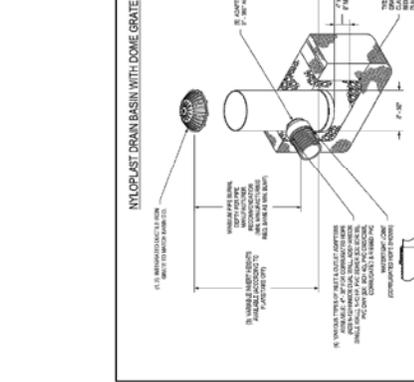
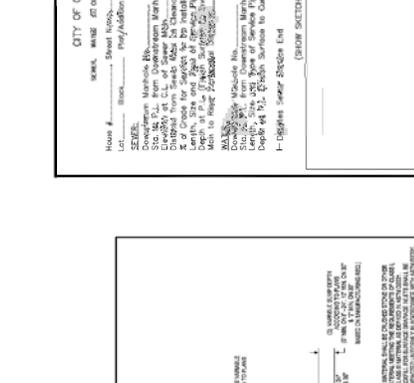
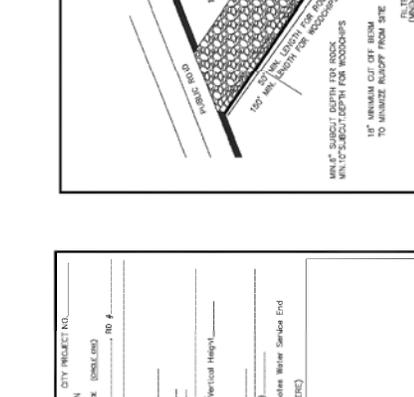
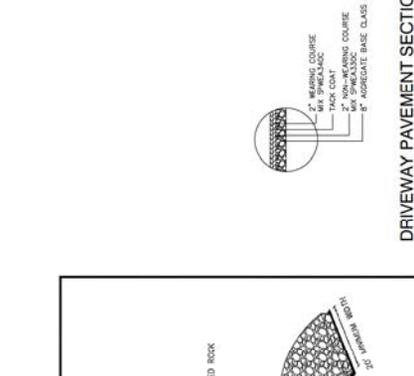




EAGLE BLUFF
 CHANHASSEN, MN
CONSTRUCTION DOCUMENTS

DATE	ISSUE
9-27-21	2-27-21 CONSTRUCTION DOCUMENTS

PROJECT TEAM DATA
 DESIGNED: MPR
 DRAWN: JAS
 PROJECT NO: 221-0004



DRIVEWAY PAVEMENT SECTIONS
 SEE TYPICAL

STANDARD SERVICE TIE CARD
 ENGINEERING DEPARTMENT
 DRAWING NO: 5221

NYOPLAST DRAIN BASIN WITH DOME GRATE
 ENGINEERING DEPARTMENT
 DRAWING NO: 1005

EROSION CONTROL FOR INDIVIDUAL LOTS (TYP.)
 ENGINEERING DEPARTMENT
 DRAWING NO: 5202B

PRECAST CONCRETE HEADWALL FOR SUBSURFACE DRAINS
 ENGINEERING DEPARTMENT
 DRAWING NO: 313C

ROCK CONSTRUCTION ENTRANCE
 ENGINEERING DEPARTMENT
 DRAWING NO: 5301

**TYPICAL SANITARY SEWER SERVICE (LESS THAN 18\"/>
 ENGINEERING DEPARTMENT
 DRAWING NO: 2001**

TYPICAL WATER SERVICE
 ENGINEERING DEPARTMENT
 DRAWING NO: 1005

SITE PLAN DATA

EXISTING ZONING: A2 - AGRICULTURAL ESTATE DISTRICT
PROPOSED ZONING: RESF - RESIDENTIAL SINGLE FAMILY
EXISTING LAND USE: RESIDENTIAL LOW DENSITY (1.2-4 U/AC)
PROPOSED LAND USE: RESIDENTIAL LOW DENSITY (1.2-4 U/AC)

GRASS AREA: 4.10 ACRES
WETLAND AREA: 18.2
PROPOSED DWELLING UNITS: 2 (1 NEW)

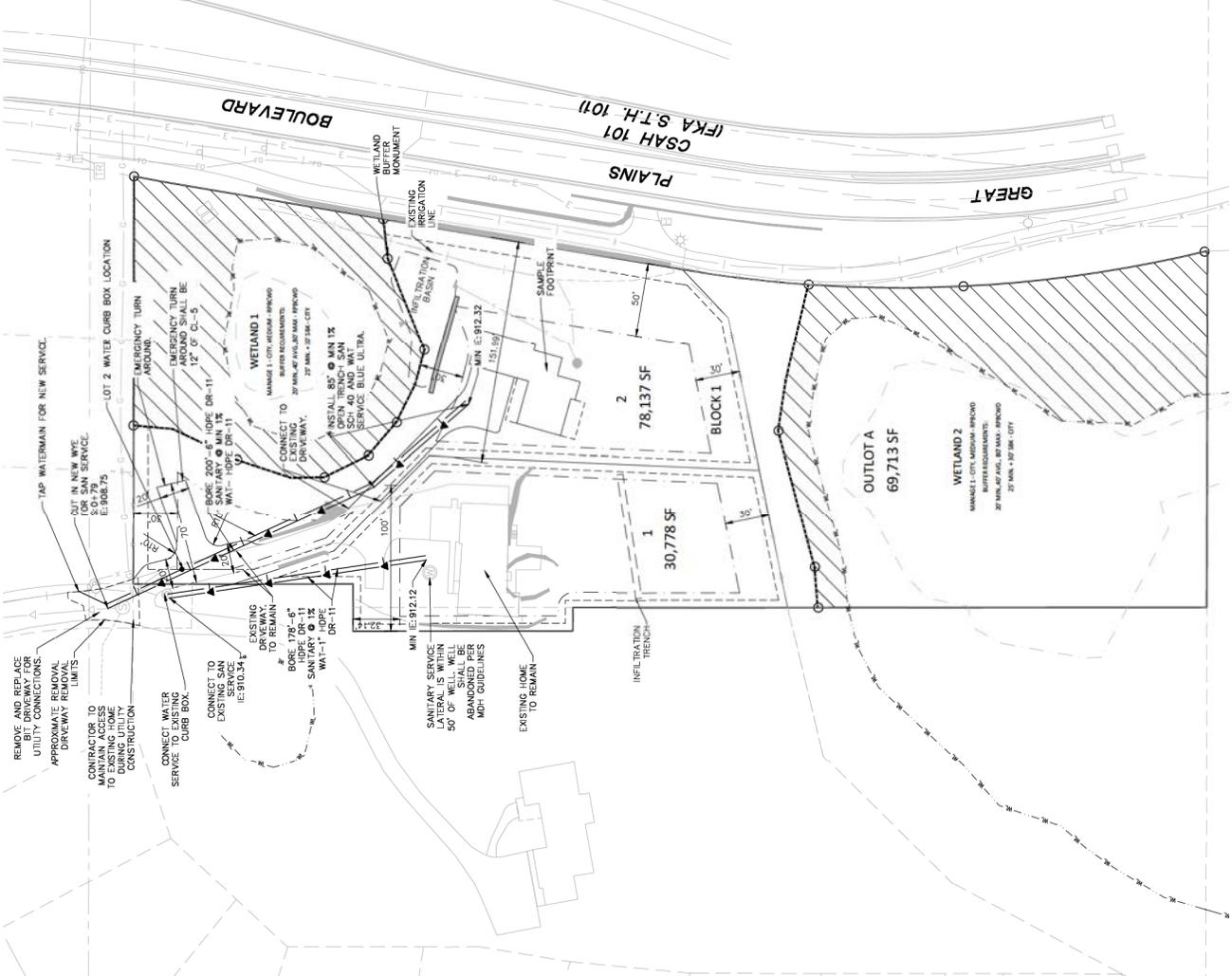
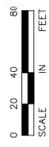
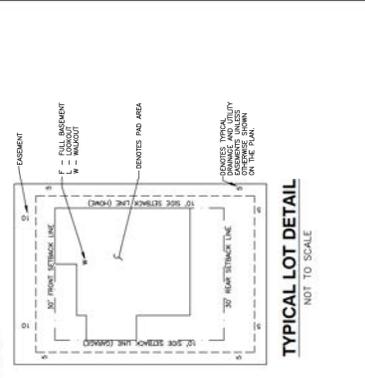
LOT AREA TABLE

BLOCK	LOT	AREA (SF)	AREA (AC)	SETBACKS* FRONT REAR	ALLOWABLE IMPERVIOUS**
1	1	30,778	0.71	5,547	30
	2	78,137	1.79	38,295	30
OUTLOT	A	69,713	1.60	N/A	N/A
	B	69,713	1.60	N/A	N/A

*SIDE SETBACKS SEE TYPICAL LOT DETAIL
**MINIMUM IMPERVIOUS CAPACITY OF CHANHASSEN DEVELOPMENT REGULATIONS
***25% MAXIMUM IMPERVIOUS CAPACITY OF CHANHASSEN DEVELOPMENT REGULATIONS
****DRAINAGE AND UTILITY CASEMENT AREA

- UTILITY NOTES:**
- EXISTING UTILITIES, SERVICE LOCATIONS AND ELEVATIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS PRIOR TO THE START OF CONSTRUCTION. ALL PERMITS MUST BE OBTAINED FROM THE CITY OF CHANHASSEN ENGINEERING GUIDELINES.
 - ALL UTILITIES SHALL BE DEEPENED AND REGRADED TO MATCH THE CITY OF CHANHASSEN ENGINEERING GUIDELINES.
 - UTILITY MAPS AND CONNECTIONS INTO PUBLIC UTILITIES MUST BE INSPECTED BY PUBLIC WORKS.
 - NOTIFY COPHER STATE ONE CALL 48 HOURS IN ADVANCE OF ANY UTILITY WORK.
 - PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH MNDOT TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS-FIELD MANUAL, LATEST REVISION, FOR ANY CONSTRUCTION WITHIN PUBLIC R.O.W.
 - WATERMAN, SERVICES, AND VALVES SHALL BE INSTALLED WITH MINIMUM 7.5' OF COVER.
 - PROVIDE WATER SERVICES SHALL BE 1" DIA. HOPE BLUE ULTRA W/1" CORP. STOP AND 1" CURB BOX.
 - SEWER SERVICES SHALL BE 4" PVC 50# 35' MINIMUM 28" TO THE EXISTENT LINE. SLOPE UNLESS OTHERWISE NOTED ON THE PLANS. FOLLOW AN BUILDING AND PLUMBING CODE FOR PRIVATE SERVICE LINES.

- LEGEND:**
- EXISTENT LINE BUILDING SETBACK
 - PROPERTY LINE
 - LOT LINE
 - RETAINING WALL
 - ROW
 - WETLAND DELINEATION*
 - WETLAND BUFFER**
 - WETLAND BUFFER STRIP**
 - EXISTING GATE VALVE
 - EXISTING HYDRANT
 - EXISTING WATER MAIN
 - EXISTING CATCH BASIN
 - EXISTING STORM MANHOLE
 - EXISTING STORM SEWER
 - EXISTING SANITARY MANHOLE
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATERMAIN
- SEE WETLAND MANAGEMENT PLAN FOR WETLAND, BUFFER DATA, CALCULATIONS AND WETLAND BUFFER MONITORING



REMOVE AND REPLACE UTILITY CONNECTIONS. APPROXIMATE REMOVAL DRIVEWAY REMOVAL LIMITS. CONTRACTOR TO MAINTAIN SERVICE TO EXISTING HOME TO EXISTING HOME CONSTRUCTION. CONTRACT WATER SERVICE TO EXISTING CURB BOX. CONNECT TO EXISTING SANITARY SERVICE (E:510.34) TO REMAIN. BORE 178"-6" SANITARY TO REMAIN. WAT-1 HOPE DR-11. MIN E: 972.12. SANITARY SERVICE LATERAL IS WITHIN 50' OF LOT LINE AND SHALL BE ABANDONED PER MDP GUIDELINES. EXISTING HOME TO REMAIN. INFILTRATION TRENCH. LOT 2 WATER CURB BOX LOCATION. EMERGENCY TURN AROUND. EMERGENCY TURN AROUND SHALL BE 12' OF CL-5. WETLAND 1. WETLAND 2. OUTLOT A. OUTLOT B. SANITARY SERVICE LATERAL IS WITHIN 50' OF LOT LINE AND SHALL BE ABANDONED PER MDP GUIDELINES. EXISTING HOME TO REMAIN. INFILTRATION TRENCH.

EROSION CONTROL PARTIES

INSPECTOR: DESIGNER:
TRB: MFCA CERTIFIED SWPPP INSPECTOR
ALLIANT ENGINEERING
312 700 DUCIE AVE.
MINNEAPOLIS, MN 55402
PH: 612-759-3080

INSTALLER:
BULLDOG CONSTRUCTION
540 LAWOTA LANE
MINNEAPOLIS, MN 55406
CONTACT: MATTY SCOUTROP

EROSION CONTROL NOTES:

- A. NATURAL TOPOGRAPHY AND SOIL CONDITIONS MUST BE PROTECTED, TO THE GREATEST EXTENT POSSIBLE.
- B. ADDITIONAL MEASURES, SUCH AS HYDRAULIC WALLING AND OTHER PRACTICES AS SPECIFIED BY THE DISTRICT MUST BE USED ON STABILIZATION.
- C. FINAL SITE STABILIZATION MEASURES MUST SPECIFY THAT AT LEAST SIX INCHES OF TOPSOIL OR ORGANIC MATTER BE SPREAD AND COVERED WITH MULCH OR GEOTEXTILE. WHEREAS, THE FINAL SITE TREATMENT WHEREAS TOPSOIL HAS BEEN REMOVED.
- D. CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE BLOCKS, BRICKS, METALS, CHEMICALS, LITTER AND OTHER DEBRIS MUST BE REMOVED FROM THE SITE.
- E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION AS DETERMINED BY THE DISTRICT.
- F. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE REMOVED UPON FINAL STABILIZATION.
- G. SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERMANENTLY UNOCCUPIED MUST BE REVEGETATED. REVEGETATION MUST BE COMPLETED WITHIN 180 DAYS OF CONSTRUCTION. REVEGETATION OF LESS THAN 1,400 KILOGRAMS OR 200 POUNDS PER SQUARE YARD MUST BE USED TO PROTECT UTILITIES, TREE ROOTS, AND OTHER EXISTING VEGETATION.
- H. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS OF COMPLETION OF CONSTRUCTION. STABILIZATION MUST BE PERMANENTLY CARRIED ON A PROPERTY THAT DRAINS TO AN ADJACENT WATERWAY WITHIN 14 DAYS.
- I. THE PERMITTEE MUST INSPECT AND MAINTAIN EROSION CONTROL MEASURES TO ENSURE THEY REMAIN EFFECTIVE. THE PERMITTEE MUST MAINTAIN A RECORD OF INSPECTIONS AND MAINTENANCE ACTIVITIES. FUNCTIONAL BMPs WITHIN 48 HOURS OF DISCOVERY AND PROBLEM IDENTIFICATION. THE PERMITTEE SHALL BE RESPONSIBLE FOR PRELIMINARY ACCESS TO THE RELEVANT AREA OF THE SITE, IN WHICH CASE THE REPAIRS MUST BE COMPLETED AS SOON AS CONDITIONS PERMIT. THE PERMITTEE MUST REPAIR THESE RESPONSIBILITIES AT THE END OF THE PROJECT. THE PERMITTEE WILL MAINTAIN A LOG OF ACTIVITIES UNDER THIS SECTION FOR INSPECTION BY THE DISTRICT ON REQUEST.
- J. STAKING OFF AND MARKING OF PROPOSED INFILTRATION FACILITIES AND MATERIALS, AND TRAFFIC, IF INFILTRATION FACILITIES ARE IN PLACE, MUST BE COMPLETED PRIOR TO CONSTRUCTION. INFILTRATION FACILITIES MUST BE PROTECTED FROM DAMAGE AND OTHER INTERFERENCE. INFILTRATION FACILITIES MUST NOT BE ENTERED UNLESS NECESSARY TO MAINTAIN OR REPAIR THE FACILITY. INFILTRATION FACILITIES MUST BE PROTECTED FROM DAMAGE AND OTHER INTERFERENCE. INFILTRATION FACILITIES MUST NOT BE ENTERED UNLESS NECESSARY TO MAINTAIN OR REPAIR THE FACILITY. INFILTRATION FACILITIES MUST BE PROTECTED FROM DAMAGE AND OTHER INTERFERENCE.
- K. ACTIVITIES MUST BE CONDUCTED SO AS TO MINIMIZE THE RISK OF EROSION, SEDIMENTATION, AND TRAFFIC. INFILTRATION FACILITIES MUST BE PROTECTED FROM DAMAGE AND OTHER INTERFERENCE.

IMPAIRED WATER REQUIREMENT DURING CONSTRUCTION:

- A. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE. THE CONSTRUCTION SHALL NOT TAKE PLACE ON THE SOIL UNTIL 7 DAYS OF TEMPORARY OR PERMANENTLY GRAZED.

NOTE TO CONTRACTOR:

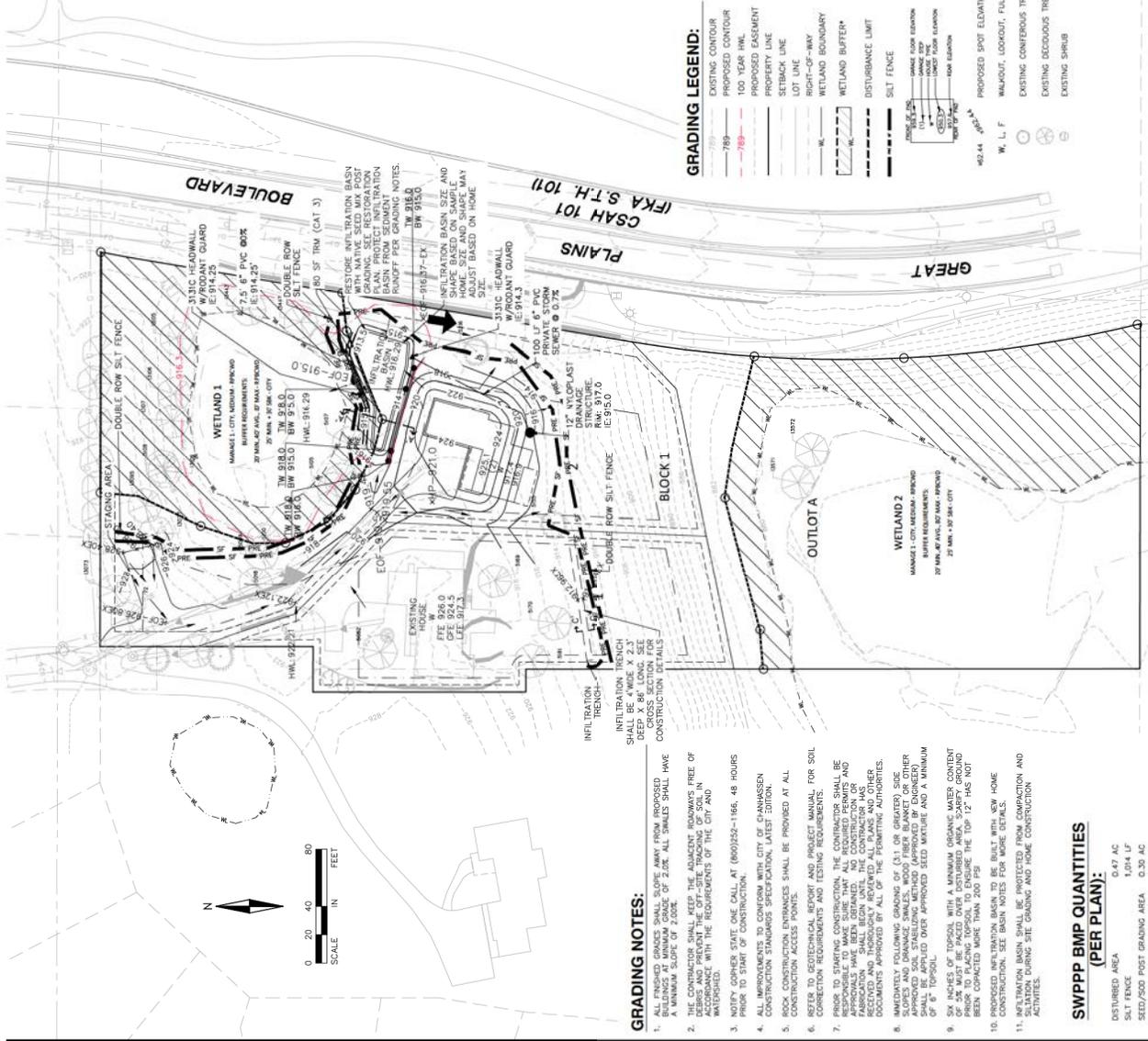
THE MASS GRADING CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN IN THE PLAN. IF CONDITIONS CHANGE, ADDITIONAL BMP IMPLEMENTATION SHALL BE REQUIRED. THE MASS GRADING CONTRACTOR IS RESPONSIBLE FOR ALL BMPs REQUIRED TO PROTECT THE ADJACENT WATERWAY. THE MASS GRADING CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF FINAL SITE STABILIZATION. AT THE COMPLETION OF FINAL SITE STABILIZATION, A NOTICE OF TERMINATION WILL BE FILED ON BEHALF OF THE DISTRICT. A NOTICE OF TERMINATION WILL BE FILED ON BEHALF OF THE DISTRICT.

CONSTRUCTION SEQUENCING:

- MASS GRADING PHASES:**
1. INSTALL THE PRE-GRADING SLOPE AND SLOPE PROTECTION BMPs ON ALL SLOPES.
 2. CONSTRUCT ALL PRE-GRADING EROSION AND SEDIMENTATION CONTROL BMPs.
 3. GRADING AND FINISHING.
 4. CONSTRUCT POST-GRADING SLOPE PROTECTION BMPs ON ALL SLOPES.
- DRIVEWAY & UTILITY PHASE:**
1. CONSTRUCT DRIVEWAY AND UTILITY STRUCTURES.
 2. INSTALL 18" AT DRAINAGE.
 3. CONSTRUCT DRIVEWAY AND UTILITY SLOPES.
 4. PREPARE SITE FOR PAVING.
 5. INSTALL POST DRIVEWAY AND UTILITY SLOPE PROTECTION BMPs.
 6. INSTALL PERMANENT EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED, IF REQUIRED BY THE CONTRACT).

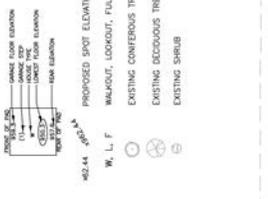
DATE	ISSUE
8-27-21	3-27-21 CONSTRUCTION DOCUMENTS
DATE	ISSUE
8-27-21	3-27-21 CONSTRUCTION DOCUMENTS
DATE	ISSUE
8-27-21	3-27-21 CONSTRUCTION DOCUMENTS
DATE	ISSUE
8-27-21	3-27-21 CONSTRUCTION DOCUMENTS
DATE	ISSUE
8-27-21	3-27-21 CONSTRUCTION DOCUMENTS

PROJECT TEAM DATA
DESIGNED: MPR
DRAWN: JAS
PROJECT NO.: 221-0004



GRADING LEGEND:

- EXISTING CONTOUR
- PROPOSED CONTOUR
- 100 YEAR W.M.
- PROPOSED EASEMENT
- PROPERTY LINE
- SETBACK LINE
- LOT LINE
- RIGHT-OF-WAY
- WETLAND BOUNDARY
- WETLAND BUFFER
- DISTURBANCE LIMIT
- SILT FENCE



GRADING NOTES:

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM GRADE OF 2.0% ALL SLOPES SHALL BE MAINTAINED.
2. THE CONTRACTOR SHALL KEEP THE ADJACENT ROADWAYS FREE OF EROSION AND SEDIMENTATION.
3. NOTIFY OTHER STATE ONE CALL AT (800)252-1166, 48 HOURS PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN THE CITY OF CHANNASSEN CONSTRUCTION STANDARDS SPECIFICATION, LATEST EDITION.
5. ROCK CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL CONSTRUCTION ACCESS POINTS.
6. REFER TO GEOTECHNICAL REPORT AND PROJECT MANUAL FOR SOIL CORRECTION REQUIREMENTS AND TESTING REQUIREMENTS.
7. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE APPROVED BY THE CITY OF CHANNASSEN. NO CONSTRUCTION OR APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR APPROVALS HAVE BEEN OBTAINED.
8. IMMEDIATELY FOLLOWING GRADING OF (3:1 OR GREATER) SLOPES, APPROVED SOIL STABILIZATION METHOD (APPROVED BY ENGINEER) SHALL BE APPLIED OVER APPROVED SEED MIXTURE AND A MINIMUM OF 6" TOPSOIL. FILLING WITH A MINIMUM ORGANIC MATTER CONTENT SHALL BE APPLIED OVER APPROVED SEED MIXTURE AND A MINIMUM OF 6" TOPSOIL. FILLING WITH A MINIMUM ORGANIC MATTER CONTENT SHALL BE APPLIED OVER APPROVED SEED MIXTURE AND A MINIMUM OF 6" TOPSOIL.
9. ALL DISTURBED AREAS MUST BE REVEGETATED WITHIN 180 DAYS OF CONSTRUCTION. REVEGETATION MUST BE COMPLETED WITHIN 180 DAYS OF CONSTRUCTION. REVEGETATION MUST BE COMPLETED WITHIN 180 DAYS OF CONSTRUCTION.
10. INFILTRATION BASIN SHALL BE PROTECTED FROM COMPACTION AND STABILIZATION DURING SITE GRADING AND HOME CONSTRUCTION ACTIVITIES.

SWPPP BMP QUANTITIES (PER PLAN):

DISTURBED AREA	0.47 AC
SILT FENCE	1,014 LF
SEED/SOIL POST GRADING AREA	0.30 AC



ALLIANT
733 Marquette Avenue
Suite 700
Minneapolis, MN 55402
612.759.3080
www.alliant-hrc.com

WETLAND SUMMARY

WETLAND CLASSIFICATION: MEDIUM VALUE
MANAGER: 1

Wetland Class	Proposed Subarea	Wetland Class	Wetland Class	Wetland Class	Wetland Class
WETLAND 1	Wetland 1	Wetland 1	Wetland 1	Wetland 1	Wetland 1
WETLAND 2	Wetland 2	Wetland 2	Wetland 2	Wetland 2	Wetland 2
WETLAND 3	Wetland 3	Wetland 3	Wetland 3	Wetland 3	Wetland 3

WETLAND BUFFER CALCULATION

ASSUMED BUFFERING REQUIREMENTS:
THE CITY OF CHANHASSEN AND WILLY PUGHARDY BUILT CREEK WATERSHED DISTRICT HAVE BUFFER REQUIREMENTS PER WETLAND CLASSIFICATION. THE BUFFER REQUIREMENTS ARE AS FOLLOWS:
MINIMUM BUFFER WIDTH IS 50% PERCENT OF THE APPLICABLE WIDTH AS REQUIRED BY PRRROW DISTRICT BUFFER ADOPTING RULES.

WETLAND	FRONTAGE	EDGE BUFFER AREA	MIN. BUFFER WIDTH	AVG. WIDTH	WETLAND AREA
1	133 LF	17,669 SF**	20'	52.72'	0.269 AC
2	411 LF	16,527 SF***	20'	45.08'	0.535 AC

NOTES:
* AREA IN PLAN VIEW. PROPOSED BUFFER AREA IS CALCULATED ALONG WETLAND FRONTAGE WHERE A 40' AVERAGE CAN BE PROVIDED WITHIN THE SITE. IF THE PROPERTY BOUNDARY IS CLOSER THAN 40' TO WETLAND FRONTAGE, THE BUFFER AREA IS NOT INCLUDED IN THE AVERAGING CALCULATION.
** BUFFER AREA IN DRAWING (BUFFER AREA REQUIRED = 17,669 SF)
*** BUFFER AREA IN DRAWING (BUFFER AREA REQUIRED = 16,527 SF)
WETLAND BUFFER AREA IS THE BUFFER AREA REQUIRED FOR WETLAND BUFFER AREA AS PART OF THE BUFFER AREA CALCULATION. EXCEPTION AREA IS BEING GIVEN IN ADDITION TO REQUIRED AREA.
TOTAL WETLAND 1 BUFFER AREA = 26,196 SF
TOTAL WETLAND 2 BUFFER AREA = 26,196 SF
THE FULL WETLAND BUFFER PROVIDED IS 0.94 ACRES AND INCLUDES THE AREA NOTED IN ABOVE AVERAGING CALCULATION AS WELL AS THE SMALL BUFFER AREAS PROPOSED BUT NOT INCLUDED IN THE AVERAGING CALCULATION.

LEGEND:

- EASEMENT
- PROPERTY LINE
- SETBACK LINE
- LOT LINE
- DRIVEWAY
- WETLAND BOUNDARY
- PROPOSED WETLAND BUFFER (FULL AREA PROVIDED)*
- WETLAND LINEAL FOOTAGE INCLUDED FOR BASIS OF BUFFER CALCULATION
- WETLAND BUFFER AREA INCLUDED IN CALC (20' MIN, 40' AVG, 80' MAX)
- WETLAND 1 EXCEPTION AREA



EAGLE BLUFF
CHANHASSEN, MN
CONSTRUCTION DOCUMENTS
WETLAND MANAGEMENT PLAN

I hereby certify that this plan, prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
M. J. [Signature]
MINNAPOLIS, MN
DATE: 10/20/24
PROJECT NO.: 231-0004

DATE	ISSUE
8-27-24	CONSTRUCTION DOCUMENTS

PROJECT TEAM DATA
DESIGNED: MPR
DRAWN: TJS
PROJECT NO.: 231-0004





September 24, 2021

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Drive East
Chanhassen, MN 55317

**Re: Duck Lake Watershed Rain Garden Construction – Pay Application #3
Barr Project # 23/27-0053.14-025**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #3 from Sunram Construction Company for work completed through 9/8/2021, on the above-referenced project. Upon your review and approval, please sign and return one copy to me. Barr will distribute a scan to the contractor and RPBCWD Administrator for district files.

This pay app is for year-one establishment activities at the rain gardens, which included:

- Visual inspections to inform maintenance required
- Watering and weeding
- Plant assessment and replacements (under warranty)

Barr Engineering has reviewed the application for payment, confirmed that the work for which payment is requested has been performed, believes to the best of our knowledge that the work has been performed in accordance with the terms of the contract with the Riley Purgatory Bluff Creek Watershed District, and is recommending payment in the amount of **\$2,000.00**. Payments should be made directly to Sunram Construction Company.

Please call me at 952-832-2755 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sobiech". The signature is fluid and cursive.

Scott Sobiech, P.E.
Barr Engineering Co.

c: Terry Jeffry, RPBCWD
Ryan Sunram, Sunram Construction Company

Enclosure #1 – Application for Payment – Progress Payment 2

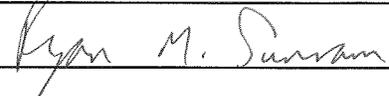
**Duck Lake Watershed Rain Garden Construction
Progress Payment Number 3**

1.0	Total Completed Through This Period	<u>\$59,352.50</u>		
2.0	Total Completed Previous Period		<u>\$57,352.50</u>	
3.0	Total Completed This Period			<u>\$2,000.00</u>
4.0	Amount Retained, Previous Period		<u>\$3,074.78</u>	
5.0	Amount Retained, This Period (See Note 1)		<u>\$0.00</u>	
6.0	Total Amount Retained		<u>\$3,074.78</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Amount Due This Period			<u><u>\$2,000.00</u></u>

Note 1: At rate of 5% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.
 Note 2: Current Contract Price \$61,495.50

SUBMITTED BY:

Name: Ryan Sunram Date: 9/16/2021
 Title: Project Manager
 Contractor: Sunram Construction

Signature: 

RECOMMENDED BY:

Name: Scott Sobiech Date: 9/16/2021
 Title: Vice President
 Engineer: Barr Engineering Co.

Signature: 

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley-Purgatory-Bluff Creek Watershed District

Signature: _____

2020 Duck Lake Watershed Rain Garden Construction, Eden Prairie, MN
 Riley-Purgatory-Bluff Creek Watershed District
 Invoices for construction

Item	Description	Unit	Estimated Quantity	Sunram Construction, Inc.		(1) Total Completed Thru this Period 6/29/20 (BID COSTS)		(2) Total Completed Thru this Period 7/29/20		(3) Total Completed Thru this Period 9/13/21		Total Complete	
				Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount	As Built Quantity	Amount
17040 South Shore Lane Rain Garden													
A	Mobilization/Demobilization/Traffic Control/Erosion Control	L.S.	1	\$3,000.50	\$3,000.50	1	\$3,000.50		\$0.00		\$0.00	1	\$3,000.50
B	Sawcut Bituminous Pavement	L.F.	16	\$3.00	\$48.00	16	\$48.00		\$0.00		\$0.00	16	\$48.00
C	Remove and Dispose of Pavement	S.F.	12	\$5.00	\$60.00	12	\$60.00		\$0.00		\$0.00	12	\$60.00
D	Sawcut, Remove and Dispose of Curb and Gutter	L.F.	10	\$17.00	\$170.00	10	\$170.00		\$0.00		\$0.00	10	\$170.00
E	Remove Sod	C.Y.	41	\$35.00	\$1,435.00	41	\$1,435.00		\$0.00		\$0.00	41	\$1,435.00
F	Excavate, Haul, and Dispose Materials	C.Y.	6	\$35.00	\$210.00	6	\$210.00	18.5	\$647.50		\$0.00	24.5	\$857.50
G	Grading	L.S.	1	\$2,900.00	\$2,900.00	1	\$2,900.00		\$0.00		\$0.00	1	\$2,900.00
H	Soil Loosening	S.Y.	40	\$1.00	\$40.00	40	\$40.00		\$0.00		\$0.00	40	\$40.00
I	Clean Sand	C.Y.	4.5	\$215.00	\$967.50	5	\$1,075.00	-0.5	-\$107.50		\$0.00	4.5	\$967.50
J	Planting Soil (12" depth- 75% Sand, 25% Leaf compost- MnDOT Grade II)	C.Y.	14	\$63.00	\$882.00	13.4	\$844.20	0.6	\$37.80		\$0.00	14	\$882.00
K	Twice-Shredded Hardwood Mulch (3" depth)	C.Y.	4	\$80.00	\$320.00		\$0.00	4	\$320.00		\$0.00	4	\$320.00
M	Bituminous Pavement Patch	L.S.	1	\$2,000.00	\$2,000.00	1	\$2,000.00		\$0.00		\$0.00	1	\$2,000.00
N	Transition Curb & Gutter	L.F.	10	\$190.00	\$1,900.00	10	\$1,900.00		\$0.00		\$0.00	10	\$1,900.00
O	Splash Block Assembly	L.S.	1	\$920.00	\$920.00	1	\$920.00		\$0.00		\$0.00	1	\$920.00
Q	Neenah Curb Opening R-3262-4	Each	1	\$650.00	\$650.00	1	\$650.00		\$0.00		\$0.00	1	\$650.00
R	4" Perforated (CPEP) Drantile w/o sock (Underdrain)	L.F.	20	\$23.00	\$460.00	20	\$460.00		\$0.00		\$0.00	20	\$460.00
S	4" PVC SCH 40 Pipe	L.F.	19	\$26.00	\$494.00	20	\$520.00		\$0.00		\$0.00	20	\$520.00
T	Drantile Cleanout	Each	1	\$550.00	\$550.00	1	\$550.00		\$0.00		\$0.00	1	\$550.00
U	Connect Drantile to Catch Basin	Each	1	\$1,200.00	\$1,200.00	1	\$1,200.00		\$0.00		\$0.00	1	\$1,200.00
V	4" Black Powder Coated Steel Landscape Edging	L.F.	79	\$12.00	\$948.00		\$0.00	80	\$960.00		\$0.00	80	\$960.00
W	Sod (Furnish and Install)	S.Y.	22	\$15.00	\$330.00		\$0.00	22	\$330.00		\$0.00	22	\$330.00
X	#1 Container Perennial (Furnish and Install)	Each	99	\$19.00	\$1,881.00		\$0.00	94	\$1,786.00		\$0.00	94	\$1,786.00
Y	Inlet Protection	Each	2	\$150.00	\$300.00	2	\$300.00		\$0.00		\$0.00	2	\$300.00
Z	Establishment Activities	Each	2	\$1,000.00	\$2,000.00		\$0.00	0	\$0.00	1	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$23,666.00		\$18,282.70		\$3,973.80		\$1,000.00		\$23,256.50
17309 Duck Lake Trail Rain Garden and Permeable Paver Driveway Section													
A	Mobilization/Demobilization/Traffic Control/Erosion Control	L.S.	1	4,500.50	4,500.50	1	\$4,500.50		\$0.00		\$0.00	1	\$4,500.50
B	Sawcut Bituminous Pavement	L.F.	18	3.00	54.00	18	\$54.00		\$0.00		\$0.00	18	\$54.00
C	Remove and Dispose of Pavement	S.F.	511	1.50	766.50	425	\$637.50	86	\$129.00		\$0.00	511	\$766.50
E	Remove Sod	S.Y.	41	35.00	1,435.00	41	\$1,435.00		\$0.00		\$0.00	41	\$1,435.00
F	Excavate, Haul, and Dispose	C.Y.	11	35.00	385.00	10	\$350.00	26	\$910.00		\$0.00	36	\$1,260.00
G	Grading	L.S.	1	2,900.00	2,900.00	1	\$2,900.00		\$0.00		\$0.00	1	\$2,900.00
H	Soil Loosening	S.Y.	40	1.00	40.00	40	\$40.00		\$0.00		\$0.00	40	\$40.00
J	Planting Soil (12" depth- 75% Sand, 25% Leaf compost- MnDOT Grade II)	C.Y.	14	63.00	882.00	12.6	\$793.80	1.4	\$88.20		\$0.00	14	\$882.00
K	Twice-Shredded Hardwood Mulch (3" depth)	C.Y.	4	80.00	320.00		\$0.00	3	\$240.00		\$0.00	3	\$240.00
L	Permeable Pavers with Bedding Course and Joint Filler	S.F.	425	40.00	17,000.00	425	\$17,000.00		\$0.00		\$0.00	425	\$17,000.00
O	Splash Block Assembly	L.S.	1	920.00	920.00	1	\$920.00		\$0.00		\$0.00	1	\$920.00
P	Splash Block Assembly (small)	L.S.	1	525.00	525.00	1	\$525.00		\$0.00		\$0.00	1	\$525.00
R	4" Perforated (CPEP) Drantile w/o sock (Underdrain)	L.F.	20	23.00	460.00	20	\$460.00		\$0.00		\$0.00	20	\$460.00
S	4" PVC SCH 40 Pipe	L.F.	10	26.00	260.00	7	\$182.00	3	\$78.00		\$0.00	10	\$260.00
V	4" Black Powder Coated Steel Landscape Edging	L.F.	74	12.00	888.00		\$0.00	83	\$996.00		\$0.00	83	\$996.00
W	Sod (Furnish and Install)	S.Y.	59	15.00	885.00		\$0.00	59	\$885.00		\$0.00	59	\$885.00
X	#1 Container Perennial (Furnish and Install)	Each	94	19.00	1,786.00		\$0.00	88	\$1,672.00		\$0.00	88	\$1,672.00
Y	Inlet Protection	Each	2	150.00	300.00	2	\$300.00		\$0.00		\$0.00	2	\$300.00
Z	Establishment Activities	Each	2	1,000.00	2,000.00		\$0.00	0	\$0.00	1	\$1,000.00	1	\$1,000.00
SUBTOTAL					36,307.00		\$30,097.80		\$4,998.20		\$1,000.00		\$36,096.00
PROJECT TOTAL FOR TWO (2) SITES					59,973.00		\$48,380.50		\$8,972.00		\$2,000.00		\$59,352.50
Revised contract price per CO #2					61,495.50								

DUCK LAKE WATERSHED RAIN GARDENS
RILEY PURGATORY BLUFF CREEK WATERSHED

Line Item	Unit	Bid Qty	Unit Price	Total Bid	7/14/2020	7/29/2020	9/8/2021	2022	Total Complete
					Quantity Pay 1	Quantity Pay 2	Quantity Pay 3	Quantity Pay 4	
17040 SOUTH SHORE LANE RAIN GARDEN									
MOBILIZATION	LS	1	\$3,000.50	\$ 3,000.50	1				\$3,000.50
SAWCUT BITUMINOUS PAVEMENT	LF	16	\$3.00	\$ 48.00	16				\$48.00
REMOVE & DISPOSE OF PAVEMENT	SF	12	\$5.00	\$ 60.00	12				\$60.00
SAWCUT, REMOVE & DISPOSE OF CURB & GUTTER	LF	10	\$17.00	\$ 170.00	10				\$170.00
REMOVE SOD	CY	41	\$35.00	\$ 1,435.00	41				\$1,435.00
EXCAVATE, HAUL & DISPOSE MATERIALS	CY	6	\$35.00	\$ 210.00	6		0		\$210.00 2x13 Loads+Plaisted 17=43 cy
GRADING	LS	1	\$2,900.00	\$ 2,900.00	1				\$2,900.00
SOIL LOOSENING	SY	40	\$1.00	\$ 40.00	40				\$40.00
CLEAN SAND	CY	4.5	\$215.00	\$ 967.50	5	-0.50			\$967.50 10 TONS /1.4 = 7.1 Plaisted
PLANTING SOIL	CY	14	\$63.00	\$ 882.00	13.4	0.60			\$882.00 16.13 Plaisted
TWICE SHREDDED HARDWOOD MULCH	CY	4	\$80.00	\$ 320.00		4			\$320.00 Hoffman 4
BITUMINOUS PAVEMENT PATCH	LS	1	\$2,000.00	\$ 2,000.00	1				\$2,000.00
TRANSITION CURB & GUTTER	LF	10	\$190.00	\$ 1,900.00	10				\$1,900.00
SPLASH BLOCK ASSEMBLY	LS	1	\$920.00	\$ 920.00	1				\$920.00
NEENAH CURB OPENING R-3262-4	EA	1	\$650.00	\$ 650.00	1				\$650.00
4" PERFORATED CPEP DRAINTILE W/O SOCK	LF	20	\$23.00	\$ 460.00	20				\$460.00
4" PVC SCH 40 PIPE	LF	19	\$26.00	\$ 494.00	20				\$520.00
DRAIN TILE CLEAN OUT	EA	1	\$550.00	\$ 550.00	1				\$550.00
CONNECT DRAIN TILE TO CATCH BASIN	EA	1	\$1,200.00	\$ 1,200.00	1				\$1,200.00
4" BLACK POWDER COATED STEEL EDGING	LF	79	\$12.00	\$ 948.00		80			\$960.00 Hoffman 80
F&I SOD	SY	22	\$15.00	\$ 330.00		22			\$330.00
F&I #1 CONTAINER PERENNIAL	EA	99	\$19.00	\$ 1,881.00		94			\$1,786.00 Hoffman 94
INLET PROTECTION	EA	2	\$150.00	\$ 300.00	2				\$300.00
ESTABLISHMENT ACTIVITIES 2 YEARS	EA	2	\$1,000.00	\$ 2,000.00		0	1		\$1,000.00 Hoffman 2
17309 DUCK LAKE TRAIL RAIN GARDEN									
MOBILIZATION	LS	1	\$4,500.50	\$ 4,500.50	1				\$4,500.50
SAWCUT BITUMINOUS PAVEMENT	LF	18	\$3.00	\$ 54.00	18				\$54.00
REMOVE & DISPOSE OF PAVEMENT	SF	511	\$1.50	\$ 766.50	425	86			\$766.50
REMOVE SOD	SY	41	\$35.00	\$ 1,435.00	41				\$1,435.00
EXCAVATE, HAUL & DISPOSE MATERIALS	CY	11	\$35.00	\$ 385.00	10	1			\$385.00 3x13 Loads
GRADING	LS	1	\$2,900.00	\$ 2,900.00	1				\$2,900.00
SOIL LOOSENING	SY	40	\$1.00	\$ 40.00	40				\$40.00
PLANTING SOIL	CY	14	\$63.00	\$ 882.00	12.6	1.4			\$882.00 15.32 Plaisted
TWICE SHREDDED HARDWOOD MULCH	CY	4	\$80.00	\$ 320.00		3			\$240.00 Hoffman 3
PERMEABLE PAVERS W/BEDDING COURSE/FILLER	SF	425	\$40.00	\$ 17,000.00	425				\$17,000.00
SPLASH BLOCK ASSEMBLY	LS	1	\$920.00	\$ 920.00	1				\$920.00
SPLASH BLOCK ASSEMBLY (SMALL)	LS	1	\$525.00	\$ 525.00	1				\$525.00
4" PERFORATED CPEP DRAINTILE W/O SOCK	LF	20	\$23.00	\$ 460.00	20				\$460.00
4" PVC SCH 40 PIPE	LF	10	\$26.00	\$ 260.00	7	3			\$260.00
4" BLACK POWDER COATED STEEL EDGING	LF	74	\$12.00	\$ 888.00		83			\$996.00 Hoffman 83
F&I SOD	SY	59	\$15.00	\$ 885.00		59			\$885.00
F&I #1 CONTAINER PERENNIAL	EA	94	\$19.00	\$ 1,786.00		88			\$1,672.00 Hoffman 88
INLET PROTECTION	EA	2	\$150.00	\$ 300.00	2				\$300.00
ESTABLISHMENT ACTIVITIES 2 YEARS	EA	2	\$1,000.00	\$ 2,000.00		0	1		\$1,000.00 Hoffman 2
CO2 EXCAVATE, HAUL & DISPOSE MATERIALS	CY	43.5	\$35.00	\$ 1,522.50		43.5			\$1,522.50
			\$	\$ -					\$0.00
			\$	\$ -					\$0.00
				\$61,495.50					\$59,352.50

Pay App 1 \$48,380.50
Pay App 2 \$8,972.00
Pay App 3 \$2,000.00



September 29, 2021

Terry Jeffery
Interim District Administrator
Riley Purgatory Bluff Creek Watershed District
18681 Lake Drive E.
Chanhassen, Minnesota 55317

Dear Terry:

Enclosed please find the checks and Treasurer's Report for Riley Purgatory Bluff Creek Watershed District for the one month and eight months ending August 31, 2021.

Please examine these statements and if you have any questions or need additional copies, please call me.

Sincerely,

REDPATH AND COMPANY, LTD.

A handwritten signature in black ink, appearing to read "Mark Gibbs", is written over the typed name.

Mark C. Gibbs, CPA
Enclosure



To The Board of Managers
Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota

Accountant's Opinion

The Riley Purgatory Bluff Creek Watershed District is responsible for the accompanying August 31, 2021 Treasurer's Report in the prescribed form. We have performed a compilation engagement in accordance with the Statements on Standards for Accounting and Review promulgated by the Accounting and Review Services Committee of AICPA. We did not audit or review the Treasurer's Report nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by the Riley Purgatory Bluff Creek Watershed District. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on the Treasurer's Report.

Reporting Process

The Treasurer's Report is presented in a prescribed form mandated by the Board of Managers and is not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America. The reason the Board of Managers mandates a prescribed form instead of GAAP (Generally Accepted Accounting Principles) is this format gives the Board of Managers the financial information they need to make informed decisions as to the finances of the watershed.

GAAP basis reports would require certain reporting formats, adjustments to accrual basis and supplementary schedules to give the Board of Managers information they need, making GAAP reporting on a monthly basis extremely cost prohibitive. An independent auditing firm is retained each year to perform a full audit and issue an audited GAAP basis report. This annual report is submitted to the Minnesota State Auditor, as required by Statute, and to the Board of Water and Soil Resources.

The Treasurer's Report is presented on a modified accrual basis of accounting. Expenditures are accounted for when incurred. For example, payments listed on the Cash Disbursements report are included as expenses in the Treasurer's Report even though the actual payment is made subsequently. Revenues are accounted for on a cash basis and only reflected in the month received.

REDPATH AND COMPANY, LTD.

A handwritten signature in black ink that reads "Redpath and Company, Ltd." in a cursive style.

St. Paul, Minnesota
September 29, 2021

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Treasurers Report

August 31, 2021

REPORT INDEX

<u>Page #</u>	<u>Report Name</u>
1	Cash Disbursements
2	Cash Disbursements
3	Fund Performance Analysis – Table 1
4	Multi-Year Project Performance Analysis – Table 2
5	Balance Sheet
6	VISA Activity

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Cash Disbursements
August 31, 2021

Accounts Payable:

<u>Check #</u>	<u>Payee</u>	<u>Amount</u>
5692	Barr Engineering	\$85,656.79
5693	B9 Polar Waters, LLC	7,394.86
5694	Elizabeth Brack	1,337.64
5695	CenterPoint Energy	43.87
5696	CenturyLink	294.93
5697	CenterPoint Energy	2,585.00
5698	City of Chanhassen	46.83
5699	Coverall of the Twin Cities, Inc.	316.76
5700	Jill S. Crafton	2,033.32
5701	Anne Deuring	655.75
5702	ECM Publishers, Inc.	190.40
5703	Brian & Melissa Foote	4,044.41
5704	HealthPartners	5,575.30
5705	Amy Herbert	1,080.00
5706	Olivia R. Holstine	560.19
5707	Iron Mountain	188.05
5708	Anthony & Joy James	3,322.88
5709	Larry Koch	692.63
5710	Marcia Kolb & John Severson	5,000.00
5711	League of MN Cities Insurance Trust P & C	19,719.00
5712	League of MN Cities Insurance Trust WC	3,711.00
5713	Daniel & Dara Lehto	5,000.00
5714	Lance Lemieux	263,200.00
5715	Steve & Luann Lutgen	2,587.46
5716	Metro Sales, Inc.	264.56
5717	Peterson Companies, Inc.	400.00
5718	Principal Life Insurance Company	342.00
5719	ProTech	236.57
5720	Marie Raley	2,373.97
5721	Redpath & Company	2,198.24
5722	Regents of the University of Minnesota	12,175.88
5723	RMB Environmental Laboratories, Inc.	1,101.00
5724	RMB Environmental Laboratories, Inc.	2,562.00
5725	RMB Environmental Laboratories, Inc.	4,169.00
5726	Nikolas Severson	5,000.00
5727	Smith Partners	23,506.57
5728	SRF Consulting Group, Inc.	5,904.86
5729	Sunram Construction, Inc.	2,000.00
5730	The Preserve Association	10,000.00
5731	Linda & Len Walton	4,513.31
5732	Xcel Energy	1,710.55
Total Accounts Payable:		<u><u>\$493,695.58</u></u>

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Cash Disbursements
August 31, 2021

Accounts Payable:

Check #	Payee	Amount
Payroll Disbursements:		
	Payroll Processing Fee	277.60
	Employee Salaries	43,405.77
	Employer Payroll Taxes	4,608.07
	Employer Benefits (H.S.A. Match)	600.00
	Employee Benefit Deductions	(516.04)
	Staff Expense Reimbursements	307.87
	PERA Match	2,700.33
	Total Payroll Disbursements:	<u>\$51,383.60</u>
	VISA - 08/17/21	3,757.10
	Permit Fee Refund - Centerpoint Energy - Ck. #5697	(2,585.00)
	Surety Refund - Lance Lemiux - Ck. #5714	<u>(263,200.00)</u>
	TOTAL DISBURSEMENTS:	<u><u>\$283,051.28</u></u>

Memos

The 2021 mileage rate is .56 per mile. The 2020 rate was .575
 Old National VISA will be paid on-line.

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Fund Performance Analysis - Table 1
August 31, 2021

	2021 Budget	Fund Transfers	2021 Budget	Current Month	Year-to-Date	Year-to Date Percent of Budget
REVENUES						
Plan Implementation Levy	\$3,575,000.00	-	\$3,575,000.00	-	\$1,850,234.25	51.75%
Permit Fees	25,000.00	-	25,000.00	415.00	69,796.83	279.19%
Grant Income	272,580.00	-	272,580.00	-	36,433.00	13.37%
Investment Income	30,000.00	-	30,000.00	39.11	324.37	1.08%
Miscellaneous Income	-	-	-	-	6.84	---
Past Levies	3,204,427.00	-	3,204,427.00	-	-	0.00%
Partner Funds	451,000.00	-	451,000.00	-	2,000.00	0.44%
TOTAL REVENUE	\$7,558,007.00	-	\$7,558,007.00	\$454.11	\$1,958,795.29	25.92%
EXPENDITURES						
Administration						
Audit	\$15,000.00	-	\$15,000.00	-	\$14,400.00	96.00%
Accounting (and Audit)	\$31,000.00	-	31,000.00	2,475.84	24,914.01	80.37%
Advisory Committees	7,000.00	-	7,000.00	-	-	0.00%
Insurance and bonds	18,000.00	-	18,000.00	23,430.00	23,844.00	132.47%
Engineering Services	112,000.00	-	112,000.00	11,149.50	88,715.56	79.21%
Legal Services	84,000.00	-	84,000.00	10,703.96	58,329.88	69.44%
Manager Per Diem/Expense	30,000.00	-	30,000.00	3,545.70	14,589.58	48.63%
Dues and Publications	16,000.00	-	16,000.00	-	9,006.00	56.29%
Office Cost	190,000.00	-	190,000.00	12,954.77	95,684.85	50.36%
Permit Review and Inspection	140,000.00	-	140,000.00	31,176.46	151,292.64	108.07%
Permit and Grant Database	-	-	-	-	21,500.00	---
Professional Services	10,000.00	-	10,000.00	-	12,335.50	123.36%
Recording Services	15,000.00	-	15,000.00	1,080.00	10,125.00	67.50%
Staff Cost	802,054.00	-	802,054.00	33,593.13	314,740.23	39.24%
Subtotal	\$1,470,054.00	-	\$1,470,054.00	\$130,109.36	\$839,477.25	57.11%
Programs and Projects						
District Wide						
10-year Management Plan	\$10,000.00	-	\$10,000.00	\$119.50	\$4,683.67	46.84%
AIS Inspection and early response	85,000.00	-	85,000.00	-	14,272.89	16.79%
Cost-Share/Stewardship Grant	346,735.00	-	346,735.00	49,640.72	120,513.09	34.76%
Data Collection and Monitoring	193,000.00	-	193,000.00	29,275.88	193,561.53	100.29%
Community Resiliency	111,058.00	-	111,058.00	-	7,596.50	6.84%
Education and Outreach	100,834.00	-	100,834.00	5,840.50	27,365.94	27.14%
Plant Restoration - U of M	61,613.00	-	61,613.00	12,175.88	21,650.48	35.14%
Repair and Maintenance Fund *	212,540.00	-	212,540.00	400.00	570.00	0.27%
Wetland Management*	111,248.00	-	111,248.00	29,269.73	144,101.74	129.53%
Groundwater Conservation*	229,444.00	-	229,444.00	-	450.00	0.20%
Lake Vegetation Implementation	83,083.00	-	83,083.00	-	15,878.13	19.11%
Opportunity Project*	317,480.00	-	317,480.00	-	-	0.00%
Stormwater Ponds - U of M	67,164.00	-	67,164.00	-	36,719.00	54.67%
Hennepin County Chloride Initiative	92,971.00	-	92,971.00	-	4,975.00	5.35%
Lower Minnesota Chloride Cost-Share	217,209.00	-	217,209.00	-	9,618.32	4.43%
Subtotal	\$2,239,379.00	-	\$2,239,379.00	\$126,722.21	\$601,956.29	26.88%
Bluff Creek						
Bluff Creek Tributary*	\$7,251.00	-	\$7,251.00	-	-	0.00%
Wetland Restoration at Pioneer	\$665,285.00	-	665,285.00	1,525.90	70,566.67	10.61%
Bluff Creek B5 by Galpin	140,000.00	-	140,000.00	-	-	0.00%
Subtotal	\$812,536.00	-	812,536.00	\$1,525.90	\$70,566.67	8.68%
Riley Creek						
Lake Riley - Alum Treatment*	\$62,885.00	-	\$62,885.00	-	-	0.00%
Rice Marsh Lake in-lake phosphorus load	45,636.00	-	45,636.00	721.20	7,952.00	17.42%
Rice Marsh Lake Water Quality Improvement Phase 1	634,147.00	-	634,147.00	3,999.00	73,171.60	11.54%
Riley Creek Restoration (Reach E and D3)	107,047.00	-	107,047.00	5,395.75	18,580.14	17.36%
Upper Riley Creek Stabilization	902,025.00	-	902,025.00	135.00	27,616.56	3.06%
Middle Riley Creek	192,363.00	-	192,363.00	5,712.00	96,450.44	50.14%
Lake Ann Wetland Restoration	50,000.00	-	50,000.00	-	-	0.00%
St. Hubert Water Quality Project	147,063.00	-	147,063.00	5,904.86	84,392.17	57.39%
Subtotal	\$2,141,166.00	\$0.00	2,141,166.00	\$21,867.81	\$308,162.91	14.39%
Purgatory Creek						
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	\$34,899.00	-	\$34,899.00	-	\$5,233.25	15.00%
Lotus Lake in-lake phosphorus load control	79,225.00	-	79,225.00	-	-	0.00%
Silver Lake Restoration - Feasibility Phase 1	207,208.00	-	207,208.00	826.00	40,480.00	19.54%
Scenic Heights	92,040.00	-	92,040.00	-	2,983.00	3.24%
Hyland Lake in-lake phosphorus load control	20,000.00	-	20,000.00	-	-	0.00%
Duck Lake watershed load	32,120.00	-	32,120.00	2,000.00	7,176.00	22.34%
Lotus Lake Kerber Pond	14,380.00	-	14,380.00	-	-	0.00%
Duck lake Partnership	235,000.00	-	235,000.00	-	-	0.00%
Subtotal	\$714,872.00	\$0.00	\$714,872.00	\$2,826.00	\$55,872.25	7.82%
Reserve	\$180,000.00	\$0.00	180,000.00	-	-	0.00%
TOTAL EXPENDITURE	\$7,558,007.00	\$0.00	\$7,558,007.00	\$283,051.28	\$1,876,035.37	24.82%
EXCESS REVENUES OVER (UNDER) EXPENDITURES	\$0.00	\$0.00	\$0.00	(\$282,597.17)	\$82,759.92	

*Denotes Multi-Year Project - See Table 2 for details

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Muti-Year Project Performance Analysis - Table 2
August 31, 2021

Programs and Projects	Total	FUNDING SOURCE			Current	Costs	Costs	Total Costs to Date	District's Share Current Year	District's Share Future Years
	Lifetime Budget	District funds	Partner Fund	Grants	Year Budget	Month End	Year-to-Date			
District Wide										
Community Resiliency	\$148,000.00	\$98,000.00	-	50,000.00	\$111,058.00	-	\$7,596.50	\$69,537.57	\$75,000.00	60,000.00
Repair and Maintenance Fund	277,005.00	277,005.00	-	-	212,540.00	400.00	570.00	90,035.08	-	20,000.00
Wetland Management	200,000.00	200,000.00	-	-	111,248.00	29,269.73	144,101.74	257,853.62	-	70,000.00
Groundwater Conservation	180,000.00	180,000.00	-	-	229,444.00	-	450.00	1,005.85	50,000.00	79,000.00
Opportunity Project*	300,000.00	300,000.00	-	-	317,480.00	-	-	26,165.29	50,000.00	70,000.00
Stormwater Ponds - U of M	106,092.00	64,092.00	42,000.00	-	67,164.00	-	36,719.00	95,646.97	20,000.00	-
Hennepin County Chloride Initiative	120,800.00	19,000.00	-	101,800.00	92,971.00	-	4,975.00	32,804.77	-	-
Lower Minnesota Chloride Cost-Share	217,209.00	20,000.00	-	197,209.00	217,209.00	-	9,618.32	9,618.32	-	-
Subtotal	\$1,549,106.00	\$1,158,097.00	\$42,000.00	\$349,009.00	\$1,359,114.00	\$29,669.73	\$204,030.56	\$582,667.47	195,000.00	299,000.00
Bluff Creek										
Bluff Creek Tributary*	\$436,750.00	\$386,750.00	\$50,000.00	-	\$7,251.00	-	-	\$391,498.69	-	-
Wetland Restoration at Pioneer	857,820.00	450,000.00	-	407,820.00	665,285.00	1,525.90	70,566.67	713,103.83	450,000.00	-
Bluff Creek B5 by Galpin	614,000.00	614,000.00	-	-	140,000.00	-	-	-	140,000.00	614,000.00
Subtotal	\$1,908,570.00	\$1,450,750.00	\$50,000.00	\$407,820.00	\$812,536.00	1,525.90	\$70,566.67	\$1,104,602.52	\$590,000.00	614,000.00
Riley Creek										
Lake Riley - Alum Treatment 1st dose *	\$560,000.00	\$560,000.00	-	-	\$62,885.00	-	-	\$512,114.57	-	-
Rice Marsh Lake in-lake phosphorus load	150,000.00	150,000.00	-	-	45,636.00	721.20	7,952.00	112,316.65	-	170,000.00
Rice Marsh WQ 1	300,000.00	300,000.00	-	-	634,147.00	3,999.00	73,171.60	89,024.10	350,000.00	-
Riley Creek Restoration (Reach E and D3) *	2,168,148.00	1,615,000.00	553,148.00	-	107,046.00	5,395.75	18,580.14	2,246,437.17	40,000.00	-
Upper Riley Creek Stabilization	950,000.00	950,000.00	-	-	902,025.00	135.00	27,616.56	75,591.08	100,000.00	-
Middle Riley Creek	45,000.00	-	45,000.00	-	192,363.00	5,712.00	96,450.44	96,450.44	-	-
St Hubert	178,865.00	-	65,000.00	113,865.00	147,063.00	5,904.88	84,392.19	84,392.19	100,000.00	-
Subtotal	\$4,352,013.00	\$3,575,000.00	\$663,148.00	\$113,865.00	\$2,091,165.00	\$21,867.83	\$308,162.93	\$3,216,326.20	\$590,000.00	170,000.00
Purgatory Creek										
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	\$50,000.00	\$50,000.00	-	-	\$34,899.00	-	\$5,233.25	\$20,334.53	-	-
Lotus Lake in-lake phosphorus load control	345,000.00	345,000.00	-	-	79,225.00	-	-	265,773.75	-	345,000.00
Silver Lake Restoration Project WQ1	268,013.00	268,013.00	-	-	207,208.00	826.00	40,480.00	101,285.19	-	-
Scenic Heights	260,000.00	165,000.00	45,000.00	50,000.00	92,040.00	-	2,983.00	210,942.75	-	-
Hyland Lake Internal Load	150,000.00	130,000.00	20,000.00	-	20,000.00	-	-	128,612.41	20,000.00	150,000.00
Duck Lake watershed load	220,000.00	220,000.00	-	-	32,120.00	2,000.00	7,176.00	195,055.01	-	-
Subtotal	\$1,293,013.00	\$1,178,013.00	\$65,000.00	\$50,000.00	\$465,492.00	\$2,826.00	\$55,872.25	\$922,003.64	\$20,000.00	495,000.00
Total Multi-Year Project Costs	\$9,102,702.00	\$7,361,860.00	\$820,148.00	\$920,694.00	\$4,728,307.00	\$55,889.46	\$638,632.41	\$5,825,599.83	\$1,395,000.00	\$1,578,000.00

Riley Purgatory Bluff Creek Watershed District
Balance Sheet
As of August 31, 2021

ASSETS

Current Assets

General Checking-Old National	\$3,039,829.80
Checking-Old National/BMW	23,256.03
Investments-Standing Cash	3,287,183.12
Investments-Wells Fargo	747,082.17
Accrued Investment Interest	7.50
Accounts Receivable	3,748.75
Due From Other Governments	143,280.00
Taxes Receivable-Delinquent	34,792.36
Pre-Paid Expense	31,914.23
Security Deposits	7,244.00

Total Current Assets: \$7,318,337.96

LIABILITIES AND CAPITAL

Current Liabilities

Accounts Payable	\$749,590.06
Retainage Payable	27,616.74
Withholding Taxes	1,229.73
Permits & Sureties Payable	312,973.25
Deferred Revenue	34,792.36
Unearned Revenue	183,153.00

Total Current Liabilities: \$1,309,355.14

Capital

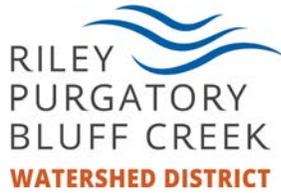
Fund Balance-General	\$5,926,222.90
Net Income	82,759.92

Total Capital \$6,008,982.82

Total Liabilities & Capital \$7,318,337.96

RILEY PURGTORY BLUFF CREEK WATERSHED DISTRICT
OLD NATIONAL BANK VISA ACTIVITY
August 31, 2021

DATE	PURCHASED FROM	AMOUNT	DESCRIPTION	ACCOUNT #	RECEIPT
08/18/21	Americinn of Austin, Austin MN	106.44	Field Day in Austin, MN	10-00-4010	Y
08/18/21	Americinn of Austin, Austin MN	106.44	Field Day in Austin, MN	10-00-4320	Y
08/18/21	Americinn of Austin, Austin MN	106.44	Field Day in Austin, MN	10-00-4320	Y
08/19/21	People's Organic EP, Eden Prairie, MN	55.00	Staff Appreciation - Lunch	10-00-4321	Y
08/20/21	Amzn Mktp US	17.98	Office Supplies: Phone Chargers	10-00-4200	Y
08/21/21	Verizon Wireless	540.23	Monthly Telecommunications	10-00-4240	Y
08/26/21	Randy's Sanitation	99.67	Monthly Sanitation Services	10-00-4220	Y
08/27/21	Kowalski's Market, Eden Prairie, MN	77.09	Bathroom Supplies	10-00-4200	Y
08/30/21	General Delivery Services	27.28	Courier Service	10-00-4280	Y
09/01/21	BestBuy.com	193.51	Computer Supplies	10-00-4200	Y
09/01/21	BestBuy.com	102.13	Computer Supplies	10-00-4200	Y
09/02/21	U of M Cont. Learning	190.00	Water Resources Conference Registration	10-00-4010	Y
09/03/21	Intuit	70.00	Monthly Accounting Software Subscription	10-00-4203	Y
09/04/21	Panera Bread	147.86	Meeting Catering	10-00-4205	Y
09/08/21	Cub Foods	21.36	Meeting Supplies - Coffee	10-00-4205	Y
09/08/21	General Delivery Services	25.30	Courier Service	10-00-4280	Y
09/09/21	Staples	181.27	Office Chair	10-00-4635	Y
09/10/21	U of M Cont. Learning	95.00	Water Resources Conference Registration	10-00-4321	Y
09/10/21	Microsoft	93.96	Monthly Software Subscription	10-00-4203	Y
09/10/21	Microsoft	147.64	Monthly Software Subscription	10-00-4203	Y
09/14/21	U of M Cont. Learning	285.00	Water Resources Conference Registration	10-00-4321	Y
09/14/21	Kowalski's Market, Eden Prairie, MN	42.35	Meeting Supplies - Refreshments	10-00-4205	Y
09/15/21	WM SuperCenter	50.13	Cleaning Supplies	10-00-4200	Y
09/16/21	Amzn Mktp US	80.74	Computer Monitor	10-00-4200	Y
09/16/21	Staples	580.60	Computer Monitors	10-00-4200	Y
09/17/21	Crumb Gourmet	133.70	Meeting Catering	10-00-4205	Y
09/20/21	Target	44.97	Kitchen Restock	10-00-4200	Y
09/21/21	Verizon Wireless	584.45	Monthly Telecommunications	10-00-4240	Y
		\$4,206.54			
08/18/21	Hach Company	618.48	DC Equipment: Cables	20-05-4635	Y
08/19/21	City of Eden Prairie	177.42	Cycle the Creek Reservation	20-08-4345	Y
08/19/21	Menards Eden Prairie	25.64	DC Maintenance Supplies	20-05-4201	Y
08/25/21	Kwik Trip	42.03	Data Collection - Vehicle Fuel	20-05-4322	Y
08/31/21	Google*Navionics	16.09	Boating Navigatin App.	20-05-4203	Y
08/31/21	Moon Palace Books, Minneapolis, MN	140.43	Staff Education- Textbook	20-13-4265	Y
09/01/21	Speedway	61.94	Data Collection - Vehicle Fuel	20-05-4322	Y
09/07/21	Holiday Stations	87.14	Data Collection - Vehicle Fuel	20-05-4322	Y
09/12/21	Facebook	5.68	Facebook Ad Boost	20-08-4260	Y
09/16/21	PetSmart	284.92	Outreach Equipment - Aquatic Habitat	20-08-4635	Y
		\$1,459.77	District-Wide Total		
		\$5,666.31	GRAND TOTAL		



18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2020-073

Considered at Board of Managers Meeting: September 1, 2021

Received complete: January 18, 2021 (RPBCWD extended the permit review period 180 days based on the applicant's February 23, 2021 request and extended review period an additional 30 days to October 15, 2021 based on applicant's August 26, 2021 request)

Applicant: City of Eden Prairie, Patrick Sejkora

Consultant: Stantec, Paul Eickenberg

Project: Wetlers Way Slope/Streambank Stabilization– Restoration of an approximately 160 feet of Purgatory Creek streambank and adjacent slope.

Location: 11579 Welters Way, Eden Prairie, MN

Reviewer: Scott Sobiech, PE, Barr Engineering

Potential Board Variance Action

Manager _____ moved and Manager _____ seconded adoption of the following resolution based on the permit report that follows, the presentation of the matter at the October 6, 2021, meeting of the managers and the managers' findings, as well as the factual findings in the permit report that follows:

Resolved that variance request 1 for Permit 2020-073 are approved, subject to the following conditions: 1.
[CONDITION(S)]

Proposed Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the October 6, 2021 meeting of the managers. Resolved that the application for Permit 2020-073 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report;

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2020-073 to the applicant on behalf of RPBCWD.

Upon vote, the resolutions were adopted, _____ [VOTE TALLY].

Rule Conformance Summary

Rule	Issue	Conforms to RBPCWD Rules?	Comments
B	Floodplain Management and Drainage Alterations	No	See Rule K variance discussion. Requesting a variance from providing compensatory storage +/-1 foot in elevation relative to the fill volumes.
C	Erosion Prevention and Sediment Control	See Comment	See Rule Specific Permit Condition C1 related to providing the contact information for the individual responsible for erosion control at the site.
D	Wetland and Creek Buffer	See Comment	See Rule Specific Permit Conditions D1-D2 related to revising buffer vegetation to include only natives and entering into a maintenance agreement.
F	Shoreline and Streambank Stabilization	See Comment	See Rule Specific Permit Conditions F1-F2 requiring a detail of the proposed vegetated riprap and no reduction in channel cross section.
K	Variances and Exceptions	See Comment	Variance from compensatory storage requirements in subsection 3.2 of the Floodplain Management and Drainage Alteration Rule requested. See Rule Specific Permit Condition K1
L	Permit Fee	NA	Governmental Entity
M	Financial Assurance	NA	Governmental Entity

Project Background

The Purgatory Creek streambank is experiencing significant erosion behind the parcel at 11579 Welters Way where the creek makes a 180-degree bend. The outer bank at the bend has experienced toe erosion which has led to a large tree falling over, exacerbating slope stability concerns (see Figure 1). The project consists of installation of a root wad and riprap to stabilize the streambank and adjacent slope. The site will be restored with erosion control blanket, plant plugs, and a native seed mix. Access to the stream is proposed from a City trail to the west of the erosion site and traversing along the creek bed to the erosion site. The project proposes no new or disturbed impervious surface, so compliance with the RBPCWD stormwater-management criteria is not required.

The project site information is summarized below:

Description	Area
-------------	------

	(acres)
Total Site Area	0.2
Existing Site Impervious	0
Post Construction Site Impervious	0
New (Increase) in Site Impervious Area	0
Disturbed impervious surface	0
Total Disturbed Area	0.2



Figure 1. Site Photos

Exhibits:

1. Permit Application received December 29, 2020 (The applicant was informed on January 8 that the application was incomplete. Materials completing the application were received on January 18, 2021. RPBCWD extended the permit review period 180 days in response to the applicant's February 23, 2021 request and extended the review period an additional 30 days to October 15, 2021 in response to the applicant's August 26, 2021 request)
2. Photo log received December 29, 2020

3. Shear stress computations received December 29, 2020 (revised January 18, 2021, revised August 19, 2021)
4. Design Plans Sheets dated December 29, 2020 (revised January 15, 2021, August 13, 2021, and September 22, 2021)
5. Volume computations received January 18, 2021
6. Welter's Way Streambank Stabilization Variance Request for compensatory storage dated August 18, 2021 (revised September 22, 2021)
7. Email request from the applicant to extend the permit review timeline 180 days until September 15, 2021.
8. Email request from the applicant to extend the permit review timeline an additional 30 days until October 15, 2021.
9. Slope analysis along access path received September 22, 2021
10. Right of Entry agreements for work on private property received September 23, 2021

Rule Specific Permit Conditions

Rule A: Procedural Requirements

The project proposes to conduct land disturbing activities on property owned by the city of Eden Prairie as well as two private parcels. Rule A, subsection 2.3 requires that all property owners sign the application or documentation must be provided by all property owners acknowledging the work and giving the city all necessary property rights for the project. The city has obtained the necessary authorization to apply for a permit to perform the proposed work on the two private parcels.

Rule B: Floodplain Management and Drainage Alterations

Because the project disturbs land below the 100-year flood elevation of Purgatory Creek to restore the streambank and stabilized the eroding slope, the project must conform to the requirements in the RPBCWD Floodplain Management and Drainage Alteration rule (Rule B, Subsection 2.1).

Because the project does not propose to construct or reconstruct structures that have low floors, Rule B subsection 3.1 does not impose any requirements on this application. Because the proposed project does not create any new or disturb existing impervious surface, the restriction on creekside imperviousness in Rule B, Subsection 3.4 does not impose any requirements on the project.

Placement of fill below the 100-year flood elevation is prohibited unless fully compensatory storage at the same elevation (+/- 1 foot) for fill within the floodplain of a watercourse and within the floodplain of the same waterbody is provided (Rule B, Subsection 3.2). The supporting materials demonstrate, and the RPBCWD Engineer concurs, that the project will place 11.8 cubic yards of fill below the 100-year flood elevation of 800.4 feet and excavate 35.3 cubic yards onsite. The summary of the proposed excavation and filling is provided in the following table and demonstrates the proposed streambank stabilization project will result in a net increase in floodplain storage of 23.5 cubic yards. Because full compensatory storage is not proposed at the same elevation (+/- 1 foot) as the fill, the applicant has

requested a variance from this requirement of Rule B, Subsection 3.2. See the Rule K discussion for additional information on the variance request.

Minimum Elevation (feet)	Maximum Elevation (feet)	Cut (CY)	Fill (CY)	Net (CY)
795.5	796	16.6	0.0	-16.6
796	797	11.7	0.6	-11.1
797	798	6.5	2.5	-4.0
798	799	0.3	2.9	2.7
799	800	0.1	2.8	2.7
800	800.4	0.1	3.0	2.9
	Total	35.3	11.8	-23.5

The applicant must demonstrate that the alterations are not reasonably likely to have an adverse offsite impact and not reasonably likely adversely affect flood risk, basin or channel stability, groundwater hydrology, stream baseflow, water quality, or aquatic or riparian habitat (Rule B subsection 3.3).

- Because the project provides the compensatory storage immediately upstream and at lower elevations, the flows during more frequent events will be connected to the additional floodplain storage. In addition, flows during the 100-year event will also have access to the additional storage at lower elevation proposed by the project which will help mitigate flood risk..
- By stabilizing the streambanks the proposed project will improve water quality and riparian habitat;
- By providing a granular fill material along the eroded streambank maintains the potential groundwater flow paths into the creek, thus the project will not have a material impact on groundwater hydrology or stream base flow.
- The RPBCWD engineer concurs with the applicant’s engineer that the project is not reasonable likely to have adverse impact because the proposed streambank project will stabilize an area of erosion (Rule B, Subsection 3.3).

An erosion prevention and sediment control plan has been provided, per subsection 3.5. A note on the plans requires activities be conducted to minimize the potential transfer of aquatic invasive species conforming to Rule B, Subsection 3.6. The proposed project conforms to the floodplain management and drainage alteration requirements of Rule B, with the exception of subsection 3.2, from which the applicant has requested a variance.

Rule C: Erosion and Sediment Control

Because the project will disturb more than 50 cubic yards of material the project must conform to the requirements in the RPBCWD Erosion and Sediment Control rule (Rule C, Subsection 2.1).

Drawings prepared by Stantec include installation of silt fence, floating silt curtain, inlet protection for storm sewer catch basins, rock berm construction entrances, daily inspection, placement of a minimum of 6 inches of topsoil, decompaction of areas compacted during construction, and retention of native topsoil onsite. To conform to the RPBCWD Rule C requirements the following revisions are needed:

- C1. The Applicant must provide the name and contact information of the individual responsible for erosion control at the site. RPBCWD must be notified if the responsible individual changes during the permit term.

Rule D: Wetland and Creek Buffers

Because the proposed work triggers a permit under RPBCWD Rule B for the streambank stabilization work and Purgatory Creek is a public waters watercourse, Rule D, Subsections 2.1a and 3.1c require buffer adjacent to this watercourse. (There are no regulated wetlands on the project site.)

Purgatory Creek flows through the project site and requires an average buffer width of 50 feet from the creek centerline, minimum 30 feet in accordance with Rule D, Subsection 3.2.b.v for a public waters watercourse. The 50-foot creek buffer intersects a steep slope, as defined in the rule. Per Rule D, subsection 3.2b, the buffer must encompass all or part of a slope averaging 18% or greater. However, the city does not have property rights from the private property owners to extend the buffers to the top of the steep slope which is beyond the existing conservation easement dedicated to the city. Because the buffer area adjacent to the stream stabilization area encompasses the area that the city has property rights to install the buffers on private property, the project conforms to Rule B, subsection 3.2b. In addition, the city is providing 50-foot average buffer width adjacent to the site access. As shown in the table below, the provided buffer width to conform to the steep slopes provision (Rule B, subsection 3.2b, 3.2c and 3.2f), is greater than the required average buffer width to conform to Rule D, subsection 3.2.b.v, indicating that both requirements are met.

Regulated Feature	Required Minimum Width (ft)	Required Average Width (ft)	Required Area (sq ft)	Provided Area (sq ft)	Provided Minimum Width (ft)	Provided Average Width (ft)
Purgatory Creek at Stabilization Area	30	50	14,477 ¹	26,190 ¹	63	86 ¹
Purgatory Creek at Site Access	30	50	5,550	5,550	50	50

¹ Includes required steep slope area where city has property rights to install buffers

A note is included on the plan sheet indicating the project will be constructed so as to minimize the potential transfer of aquatic invasive species (e.g., zebra mussels, Eurasian watermilfoil, etc.) to the maximum extent possible conforming to Rule D, Subsection 3.6.

To conform to the RPBCWD Rule D the following revisions are needed:

- D1. Rule D, Subsection 3.3 requires that all areas disturbed within a buffer must be restored with native vegetation. Based on the seed mix noted on sheet C-101, several of the proposed grasses (Creeping Red Fescue, Chewings Fescue, Hard Fescue, and Sheep Fescue) are not native to Minnesota. The plan must be revised to use only native vegetation within the buffer areas.
- D2. The proposed Buffer areas and maintenance requirements must be documented in an agreement approved by RPBCWD. As a public entity, the city may comply with this requirement by entering into a maintenance agreement with the RPBCWD.

Rule F: Shoreline and Streambank Stabilization

Because the proposed project will install a root wad and riprap to stabilize a portion of the streambank of Purgatory Creek, a public water course, the project must conform to the requirements in the RPBCWD Shoreline and Streambank Stabilization rule (Rule F, Subsection 2). The proposed work falls within the scope of Minnesota Department of Natural Resources General Permit #2015-1192.

The main purpose of the project is to stabilize and restore an eroded streambank along Purgatory Creek. The RPBCWD Engineer concurs that the photographs of the site provided by the applicant demonstrate existing erosion and a need to restore the eroded streambank and adjacent slope which meets the requirements in Rule F, Subsection 3.1.



The Applicant provided data and computations demonstrating the anticipated shear stress of 4.6 pounds per square foot at this location. This indicates a medium energy streambank classification, which supports the need to complete the project using a combination of riprap and bioengineering in the stabilization (Rule F, Subsection 3.2.b.ii).

The construction drawings indicate the area will be restored with native vegetation plant plugs (Rule F, Subsection 3.3.a.i). Because the drawings show excavation to provide a net increase in floodplain storage and offset the encroachment needed to stabilize the slope, there is no anticipated increase in stage upstream of the installation (Rule F, Subsection 3.3.a.iii). The project proposes to use a root wad in combination with non-limestone/dolomite stone, vegetated riprap having an average size of 12 inches in diameter (MNDOT Class IV Riprap). Because the proposed vegetated riprap can withstand shear stress of 5.1 lb/ft², which is slightly greater than the anticipated shear stress (4.6 lbs/ sq ft), the vegetated riprap design is consistent with the erosion intensity for the flow in Purgatory Creek at this location, thus conforming to Rule F, Subsection 3.3.b.i. The drawings also call for the restored streambank to be constructed at a 3:1 slope (H:V) and the proposed restoration will follow the existing alignment of the watercourse (Rule F, Subsection 3.3.b.ii). Consistent with the requirements in Rule F,

Subsection 3.3.b.iii, a filter fabric and six inch granular filter are called out on the drawings. A call out on the drawings indicated the riprap will have a minimum thickness of 1.25 times the maximum stone diameter. The applicant is not proposing to use toe boulders in the stabilization. The drawing C-101 indicates the riprap will be buried above the top of bank, which is lower than the 100-year elevation, conforming to Rule F Subsection 3.3.b.v. Because the streambank and adjacent slope is eroded with no vegetation, the proposed riprap will not cover emergent vegetation, meeting subsection 3.3.iv. The combination of a root wad and vegetated riprap design reflects energy dissipation and stabilization necessary to minimize erosion at the watercourse and is not placed for cosmetic purposes per Rule F, Subsection 3.3.b.vi.

The following revisions are needed to conform to the RPBCWD Rule F:

- F1. A vegetated riprap detail must be provided for RPBCWD review and approval, including the type of proposed vegetation.
- F2. The vegetated riprap detail must clearly show the riprap will not reduce the cross-sectional area of the channel (3.3.a.ii)

Rule K: Variances and Exceptions

The following table summarizes the Applicant’s request for a variance from the RPBCWD regulatory requirements.

Variance request summary

Variance number	Rule	Subsection	Requested Variance	Notes
1.	B	3.2	Floodplain compensatory storage	Not providing full compensatory storage at the same elevation (+/- 1 foot)

Rule K requires the Board of Managers to find that because of unique conditions inherent to the subject property the application of rule provisions will impose a practical difficulty on the Applicant. Assessment of practical difficulty is conducted against the following criteria:

- 1. how substantial the variation is from the rule provision;
- 2. the effect of the variance on government services;
- 3. whether the variance will substantially change the character of or cause material adverse effect to water resources, flood levels, drainage or the general welfare in the District, or be a substantial detriment to neighboring properties;
- 4. whether the practical difficulty can be alleviated by a technically and economically feasible method other than a variance. Economic hardship alone may not serve as grounds for issuing a variance if any reasonable use of the property exists under the terms of the District rules;
- 5. how the practical difficulty occurred, including whether the landowner, the landowner's agent or representative, or a contractor, created the need for the variance; and
- 6. in light of all of the above factors, whether allowing the variance will serve the interests of justice.

It is the applicant's obligation to address these criteria to support a variance request. The attached variance request submitted on behalf of the applicant cites several facts related to the development in support of the request.

Following is the RPBCWD engineer's assessment of information received relevant to the applicant's request for a variance from the compensatory storage criteria to be at the same elevation (+/- 1 foot) and within the floodplain of the same waterbody:

- Related to variance criterion 1 – The project will involve 11.8 cubic yards of fill and 35.3 cubic yards of compensatory storage below the 100 year floodplain, thus resulting in a net increase of 23.5 cubic yards of floodplain storage. However, this volume is not provided at the same elevation (+/- 1 foot). The Comparative Floodplain Storage table below illustrate the difference in storage volume by elevation. Providing compensatory storage within one foot of the proposed fill helps maintain nearly the same flood elevation and mitigate the potential impacts on flood risk for storm event of varying frequencies (e.g., 2-, 10-, 50-, 100-year). By providing the compensatory storage immediately upstream and at lower elevations, the project ensures creek flows for all storm frequencies have access to the additional floodplain storage which will also maintain flood elevations and help mitigate flood risk.

Minimum Elevation (feet)	Maximum Elevation (feet)	Cut (CY)	Fill (CY)	Net (CY)
795.5	796	16.6	0.0	-16.6
796	797	11.7	0.6	-11.1
797	798	6.5	2.5	-4.0
798	799	0.3	2.9	2.7
799	800	0.1	2.8	2.7
800	800.4	0.1	3.0	2.9
	Total	35.3	11.8	-23.5

- Regarding variance criteria 2 and 3 – Because the project will restore an eroded streambank and adjacent slope, the proposed work will reduce the amount of sediment entering the creek. In addition, the applicant demonstrated using 2011 LiDAR data that the materials to be placed will restore the streambank to a configuration more consistent with the original cross-section before the erosion occurred. Further, the proposed floodplain excavation will provide greater flood storage capacity than existed prior to the slope failure. Because of the floodplain excavation will provide additional floodplain storage volume below the 100-year flood elevation, the proposed alterations by themselves are not reasonably likely to adverse effect to offsite governmental services, water resources, flood levels, or neighboring properties.
- Additional technical measures cannot be incorporated into the project plan to alleviate the practical difficulty (variance criterion 4) without disturbing significantly more area and forested slopes. In essence the steep slopes adjacent to the creek would need to be cut back and extend a significant distance upslope, further impacting the private property. Alternatively minimizing

the grading extent by steepening the slopes to provide the compensatory storage at or above the top of bank would result in further bank stability issues.

- With regard to variance criteria 5 and 6, the circumstances leading to the variance were not created by the applicant but due to the erosion forces on the streambank. Approval of the variance request is not reasonably likely to have adverse impacts on any other properties or landowners.

The engineer finds that there is an adequate technical basis for the managers to rely on to grant the requested variance from the compensatory storage (Rule B, subsection 3.2) requirement.

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed above and on the permit. The granting of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
3. The grant of the permit does not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
4. The issuance of this permit does not convey any rights to either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
5. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.
6. RPBCWD's determination to issue this permit was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.
7. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

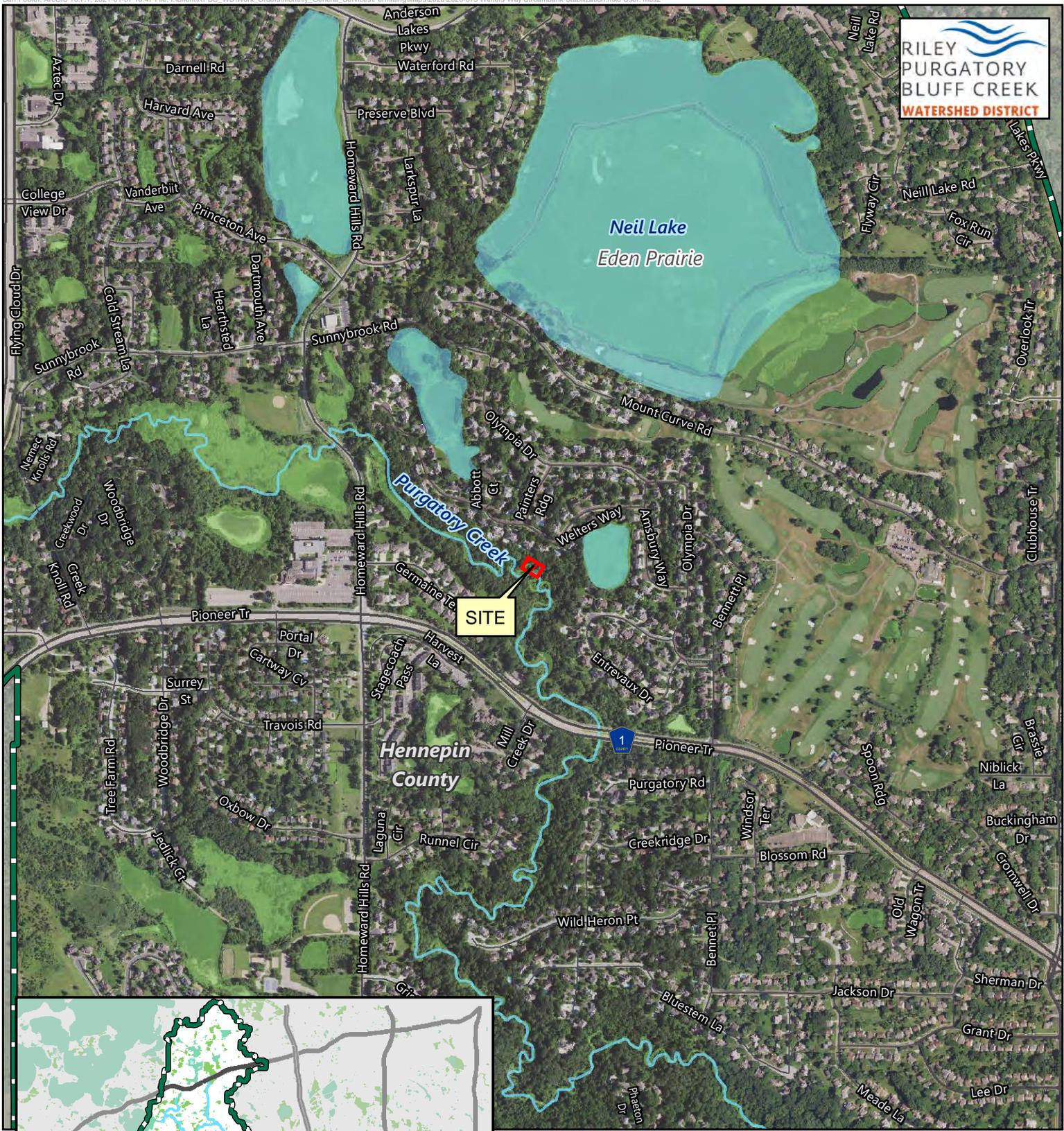
1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.

2. The Applicant has requested a variance from compliance with the Rule B criteria related to the elevation of compensatory storage relative to the elevation of fill within the floodplain.
3. The proposed project will conform to Rules C, D, and F if the conditions listed above are met.
4. Under Minnesota Department of Natural Resources General Permit 2015-1192 (attached to this report), approval of work under RPBCWD rule(s) F constitutes approval under applicable DNR work in waters rules. Compliance with conditions on approval and payment of applicable fees, if any, are necessary to benefit from general permit and are the responsibility of the applicant.

Recommendation:

Approval of the permit contingent upon:

1. Continued compliance with General Requirements.
2. The Applicant must provide the name and contact information of the individual responsible for erosion control at the site. RPBCWD must be notified if the responsible individual changes during the permit term.
3. The applicant providing revised drawings showing the following
 - a. Based on the seed mix noted on sheet C-101 several of the proposed grasses Creeping Red Fescue, Chewings Fescue, Hard Fescue, and Sheep Fescue are not native to Minnesota. The plan must be revised to use only native vegetation within the buffer areas.
 - b. A vegetated riprap detail must be proposed for RPBCWD review and approval, including the type of proposed vegetation.
 - c. The vegetated riprap detail must clearly show the riprap will not reduce the cross-sectional area of the channel (3.3.a.ii).
4. Permit applicant must provide a draft maintenance agreement and inspection plan for the buffer areas. Once approved by RPBCWD, the city must enter an agreement with RPBCWD to maintain the buffers in accordance with the plan.

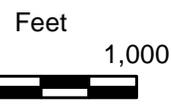
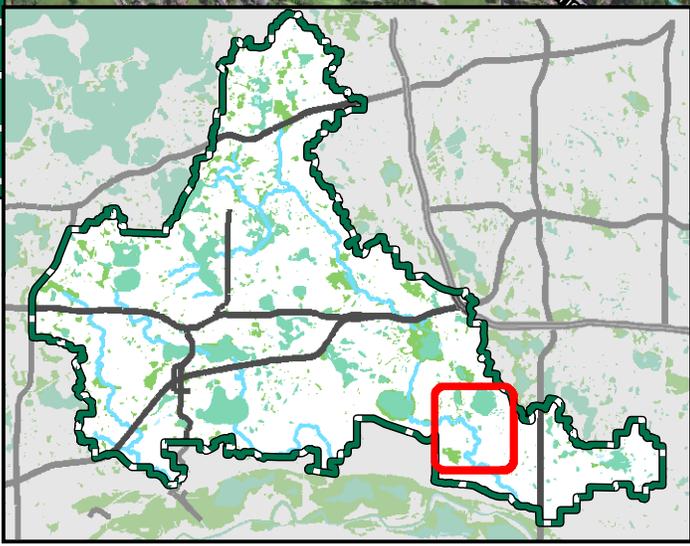


SITE

Hennepin County

Neil Lake
Eden Prairie

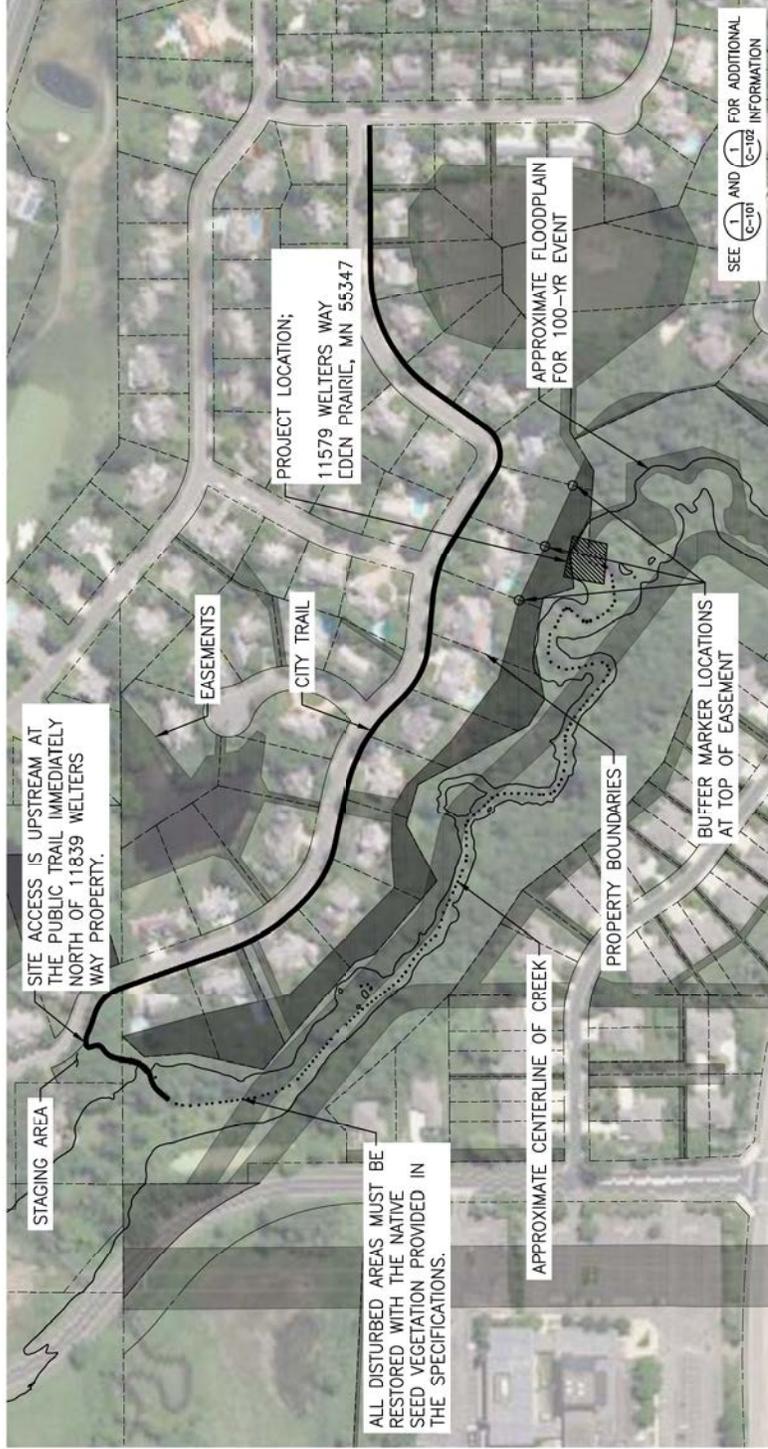
Purgatory Creek



Permit Location Map

WELTERS WAY STREAMBANK
STABILIZATION
Permit 2020-073
Riley Purgatory Bluff Creek
Watershed District

CONSTRUCTION PLANS FOR THE WELTERS WAY AND PURGATORY CREEK HILLSIDE/SLOPE STABILIZATION PROJECT PREPARED FOR THE CITY OF EDEN PRAIRIE, MINNESOTA



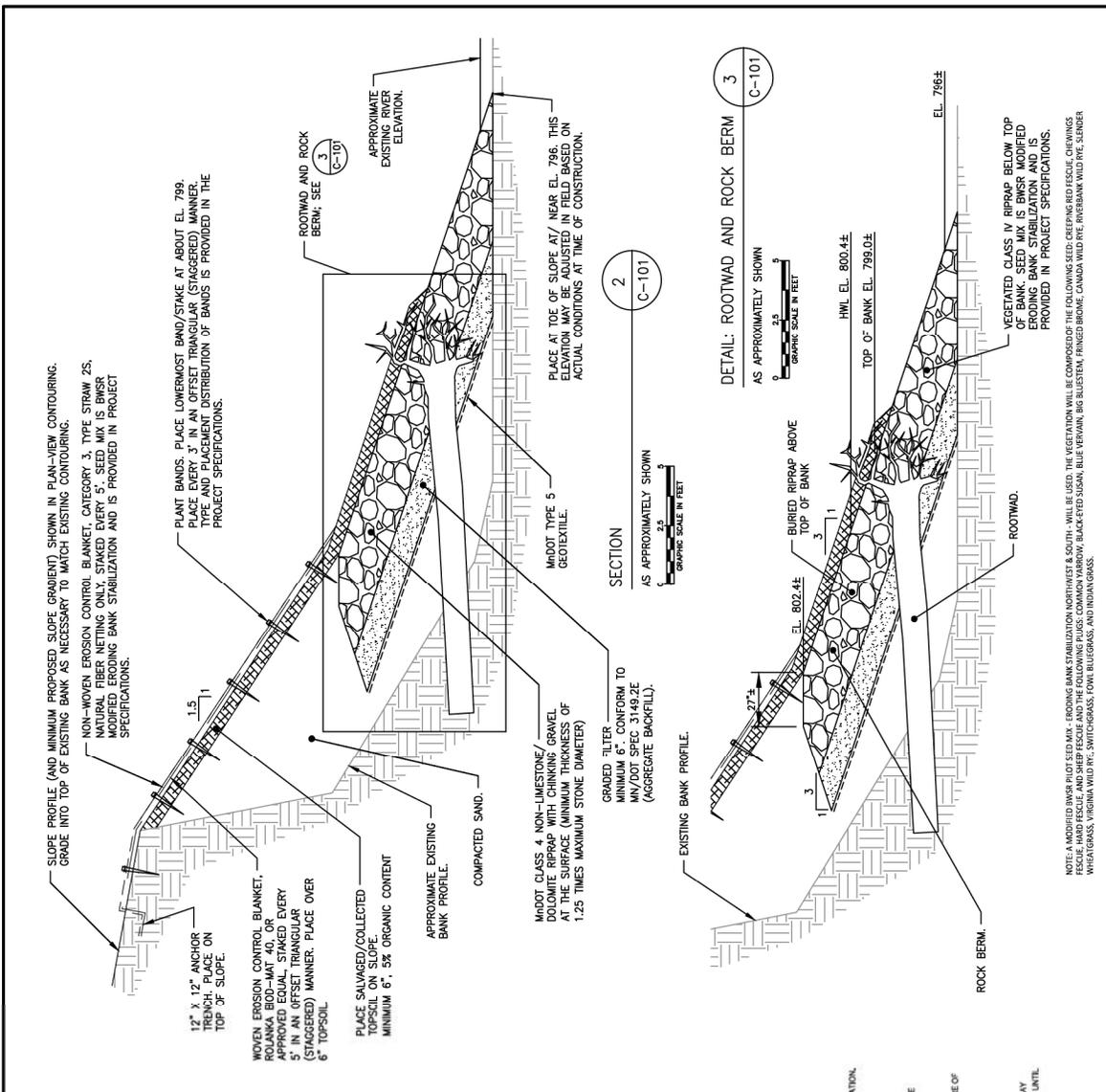
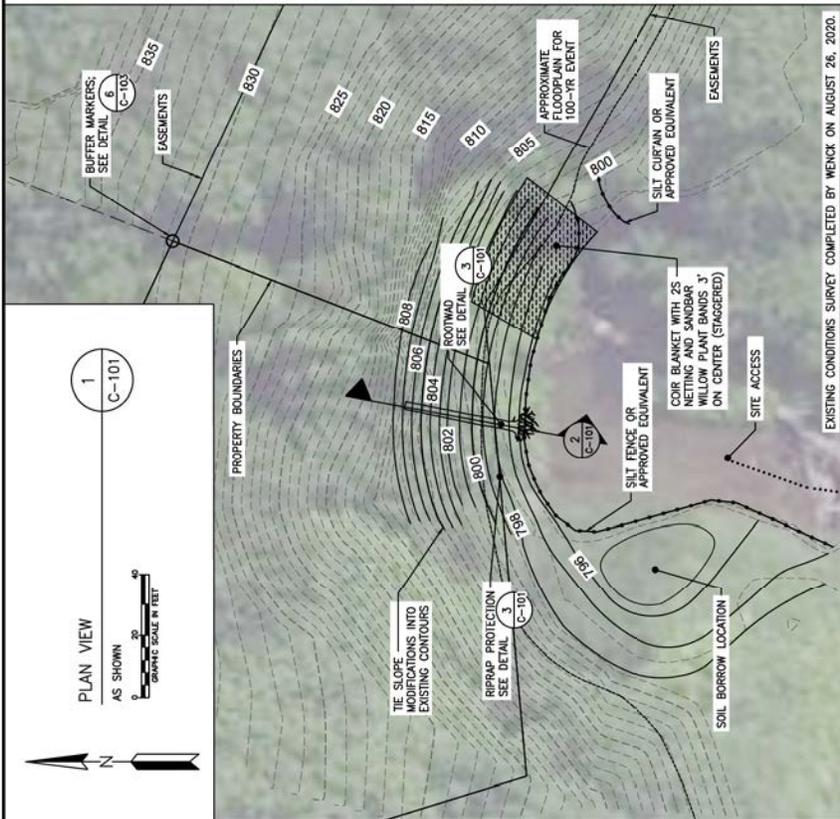
WARNING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

SHEET INDEX

- G-101 TITLE, INDEX, AND GENERAL SITE LOCATIONS
- C-101 PROPOSED PLAN, DETAIL, AND SECTION
- C-102 SITE ACCESS EROSION CONTROL
- C-103 DETAILS
- EC-102 SWPPP

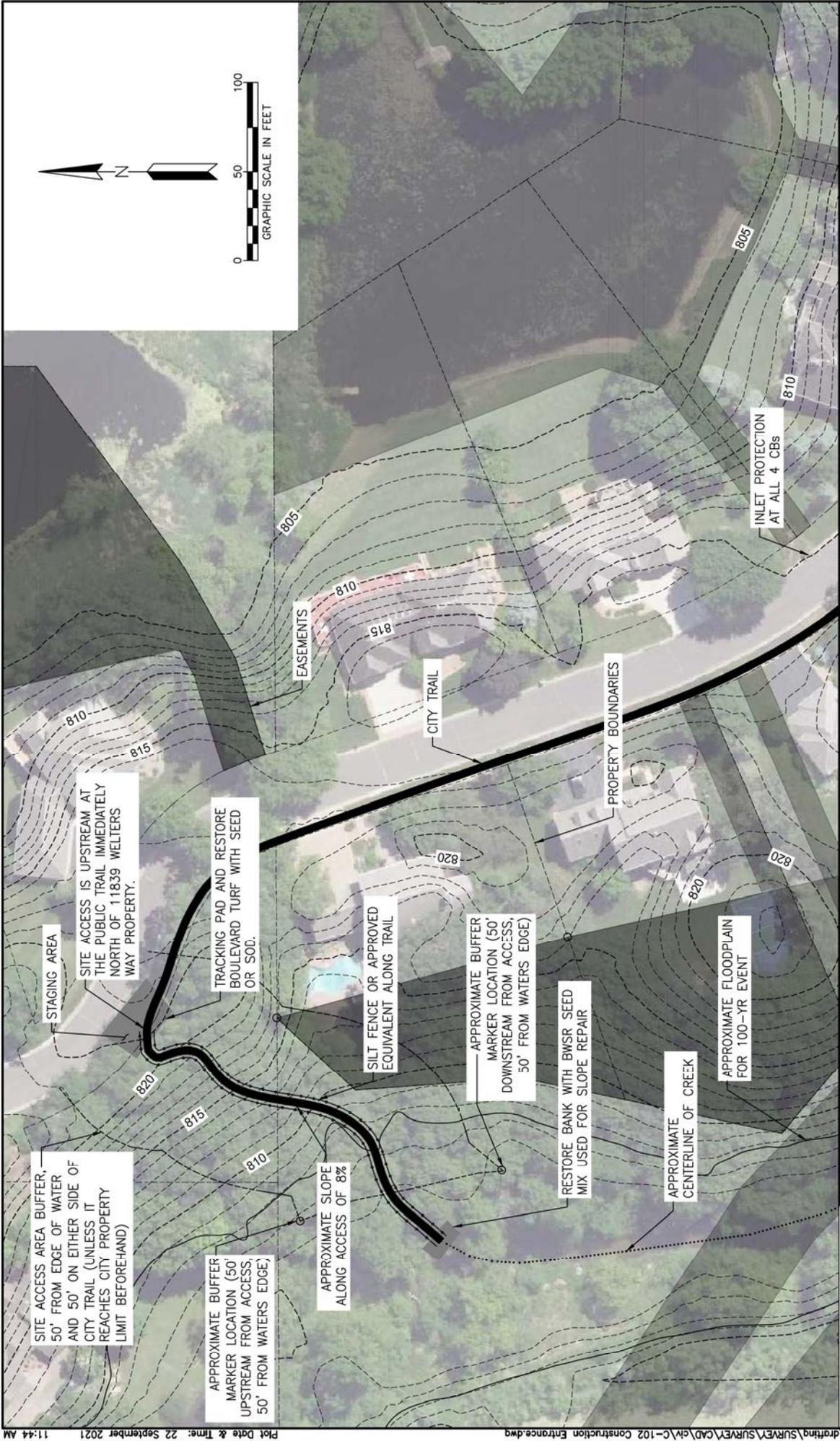
PROJECT LOCATION MAP

<p style="font-size: small;">1. HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.</p> <p style="text-align: right;">PAUL D. ENDRINGER DATE: 09/22/2021 REG. NO. 41307</p>		<p style="font-size: small;">1000 PIONEER CREEK CENTER EDEN PRAIRIE, MN 55347 PHONE: 952.447.1000 WWW.WENCK.COM</p>		<p style="font-size: small;">DWG DATE: JANUARY 2021 SCALE: AS SHOWN</p>		<p style="font-size: small;">PROJECT: SLOPE/HILLSIDE STABILIZATION CLIENT: CITY OF EDEN PRAIRIE 8080 MITCHELL ROAD EDEN PRAIRIE, MN 55344</p>		<p style="font-size: small;">SHEET TITLE, INDEX, AND GENERAL SITE LOCATIONS</p>		
		<p style="font-size: small;">WENCK Responsive partner. Exceptional outcomes.</p>		<p style="font-size: small;">DWG NO. 0094-20</p>		<p style="font-size: small;">SHEET NO. G-101</p>		<p style="font-size: small;">REV. NO. 0</p>		
REV	REVISION	DESCRIPTION	OWN	APP	REV	DATE				



REV	REVISION DESCRIPTION	OWN	APP	DATE

OWN BY	CHK'D	APP'D	PTE	PROJECT	SHEET TITLE	PROJECT NO.	SHEET NO.	REV. NO.
ANH	EAM	JANUARY 2021	AS SHOWN	SLOPE/HILLSIDE STABILIZATION	PROPOSED PLAN, DETAIL, AND SECTION	0094-20	C-101	0
DWG DATE		SCALE		CLIENT		CITY OF EDEN PRAIRIE 8080 MITCHELL ROAD EDEN PRAIRIE, MN 55344		



SITE ACCESS AREA BUFFER, 50' FROM EDGE OF WATER AND 50' ON EITHER SIDE OF CITY TRAIL (UNLESS IT REACHES CITY PROPERTY LIMIT BEFOREHAND)

STAGING AREA

SITE ACCESS IS UPSTREAM AT THE PUBLIC TRAIL IMMEDIATELY NORTH OF 11839 WELTERS WAY PROPERTY.

APPROXIMATE BUFFER MARKER LOCATION (50' UPSTREAM FROM ACCESS, 50' FROM WATERS EDGE)

APPROXIMATE SLOPE ALONG ACCESS OF 8%

SILT FENCE OR APPROVED EQUIVALENT ALONG TRAIL

APPROXIMATE BUFFER MARKER LOCATION (50' DOWNSTREAM FROM ACCESS, 50' FROM WATERS EDGE)

RESTORE BANK WITH BWSR SEED MIX USED FOR SLOPE REPAIR

APPROXIMATE CENTERLINE OF CREEK

APPROXIMATE FLOODPLAIN FOR 100-YR EVENT

EASEMENTS

CITY TRAIL

PROPERTY BOUNDARIES

INLET PROTECTION AT ALL 4 CBs

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PAUL H. JOHNSON
 DATE: 09/22/2021 REG. NO. 41397

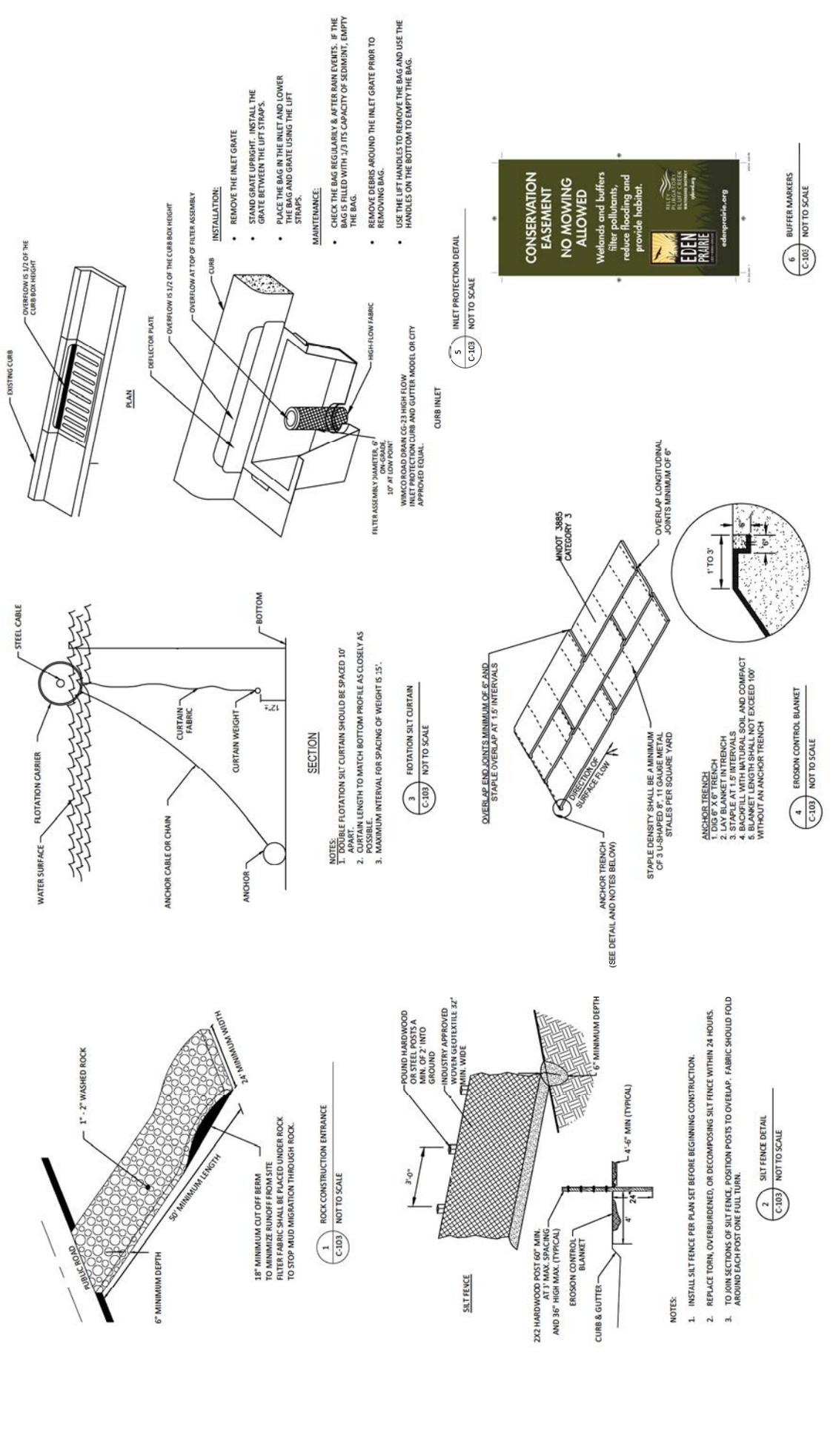
WENCK
 responsive partner. Exceptional outcomes.
 1800 PIONEER CREEK CENTER
 10000 W. WISCONSIN AVE. SUITE 300
 MINNEAPOLIS, MN 55440
 WWW.WENCK.COM

OWN BY	CHK'D	APP'D	PTE
ANH	EAM		
DWG DATE		JANUARY 2021	
SCALE		AS SHOWN	

PROJECT	SLOPE/HILLSIDE STABILIZATION
CLIENT	CITY OF EDEN PRAIRIE 8080 MITCHELL ROAD EDEN PRAIRIE, MN 55344

SHEET TITLE	SITE ACCESS EROSION CONTROL
PROJECT NO.	0094-20
SHEET NO.	C-102
REV. NO.	0

REV	REVISION DESCRIPTION	OWN	APP	REV DATE



<p>Responsive partner. Exceptional outcomes.</p>		<p>1000 PIONEER CREEK CENTER 10000 W. WISCONSIN AVE. SUITE 200 MINNEAPOLIS, MN 55428 WWW.WENCK.COM</p>	<p>OWN BY: ANH CHK'D BY: ANH APP'D DATE: JANUARY 2021 PTE: EAM SCALE: AS SHOWN</p>	<p>PROJECT: SLOPE/HILLSIDE STABILIZATION CLIENT: CITY OF EDEN PRAIRIE 8080 MITCHELL ROAD EDEN PRAIRIE, MN 55344</p>	<p>SHEET TITLE: SLOPE/HILLSIDE STABILIZATION</p>	<p>PROJECT NO.: 0094-20 SHEET NO.: C-103</p>	<p>REV. NO.: 0</p>
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PLANNED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PAUL H. CHRISTENSEN REG. NO. 43302
DATE: 09/22/2021

PROJECT INFORMATION

THIS PLAN WAS PREPARED BY WENCK CONSULTANTS, INC. (WENCK) FOR THE CITY OF EDEN PRAIRIE (CITY). THE PROJECT IS A 4.0 ACRE INDUSTRIAL DEVELOPMENT PROJECT LOCATED ON EDEN PRAIRIE ROAD, EDEN PRAIRIE, MN. THE PROJECT WILL INCLUDE CONSTRUCTION OF A 2.0 ACRE INDUSTRIAL BUILDING AND ASSOCIATED INFRASTRUCTURE INCLUDING PAVEMENT, UTILITY AND PLANT BARRIERS.

TOTAL AREA DISTURBED BY CONSTRUCTION: APPROXIMATELY 4.02 ACRES.
TOTAL AREA IMPROVED BY CONSTRUCTION: APPROXIMATELY 4.02 ACRES.
ESTIMATED CONSTRUCTION PERIOD: WINTER 2021-SPRING 2021.
THE PROPOSED AREA OF IMPROVEMENT IS APPROXIMATELY 4.0 ACRES RESULTING IN A 4.0 ACRE NET INCREASE IN IMPROVED SURFACE.

THE ON-SITE STORMWATER MANAGEMENT WILL BE PROVIDED BY MAINTAINING EXISTING DRAINAGE PATTERNS. THE PROJECT IS LOCATED WITHIN ONE MILE OF AND DISCHARGES TO AN IMPAIRED OR SPECIAL WATER BODY. ANY SUCH DISCHARGE SHALL BE LIMITED TO LESS THAN ONE HUNDRED (100) GALLONS PER DAY AND WITHIN 1 MILE THAT MAY RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE ARE SHOWN ON THE SURFACE WATERS AND WETLANDS MAP ON THIS SHEET.

PARTY RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF THE SITE (OWNER): CITY OF EDEN PRAIRIE
CONTACT: PATRICK SEAGRA, WATER RESOURCES ENGINEER
CONTACT PHONE: 952-844-4300
CONTACT EMAIL: PSEAGRA@EDENPRAIRIE.ORG

INCORPORATION INTO THIS SWPPP DOCUMENT TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE THROUGH FINAL STABILIZATION AND NOT SUBMITTED FOR A SUBSEQUENT REVISION. THE CONTRACTOR SHALL ALSO PROVIDE DOCUMENTATION OF PERSONNEL TRAINING AND CERTIFICATION. FOR THE PROJECT HAVE BEEN DETERMINED, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING UP TO DATE THE SWPPP THROUGHOUT THE DURATION OF THE PROJECT.

SOILS MAP

THE SWPPP IS BASED UPON THE SWPPP (CONTRACTOR) DOCUMENTATION ON THE DATE OF THE SOILS MAP. THE PROJECT IS LOCATED WITHIN ONE MILE OF AND DISCHARGES TO AN IMPAIRED OR SPECIAL WATER BODY. ANY SUCH DISCHARGE SHALL BE LIMITED TO LESS THAN ONE HUNDRED (100) GALLONS PER DAY AND WITHIN 1 MILE THAT MAY RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE ARE SHOWN ON THE SURFACE WATERS AND WETLANDS MAP ON THIS SHEET.

EROSION AND SEDIMENT CONTROL

MEASURES TO PREVENT EROSION AND SEDIMENTATION DURING CONSTRUCTION SHALL BE AS FOLLOWS:

1. INSTALL PERIMETER CONTROL (SEDIMENT CONTROL LOG, SILT FENCE) ON ALL DOWN GRADIENT AREAS OF THE CONSTRUCTION SITE AS SHOWN ON THE SOILS MAP. PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.

2. INSTALL EROSION CONTROL (SILT CURTAIN, SILT FENCE) ON ALL DOWN GRADIENT AREAS OF THE CONSTRUCTION SITE AS SHOWN ON THE SOILS MAP. PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.

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4. INSTALL EROSION CONTROL (SILT CURTAIN, SILT FENCE) ON ALL DOWN GRADIENT AREAS OF THE CONSTRUCTION SITE AS SHOWN ON THE SOILS MAP. PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.

EROSION AND SEDIMENT CONTROL CONT.

PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR ANCHORED OVER - SANITARY WASTE MUST BE DISPOSED OF PROPERLY.

GENERAL SWPPP NOTES

STABILIZATION IS NOT ALLOWED TO BE COMPLETED UNTIL THE SWPPP IS COMPLETELY IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE THROUGH FINAL STABILIZATION AND NOT SUBMITTED FOR A SUBSEQUENT REVISION. THE CONTRACTOR SHALL ALSO PROVIDE DOCUMENTATION OF PERSONNEL TRAINING AND CERTIFICATION. FOR THE PROJECT HAVE BEEN DETERMINED, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING UP TO DATE THE SWPPP THROUGHOUT THE DURATION OF THE PROJECT.

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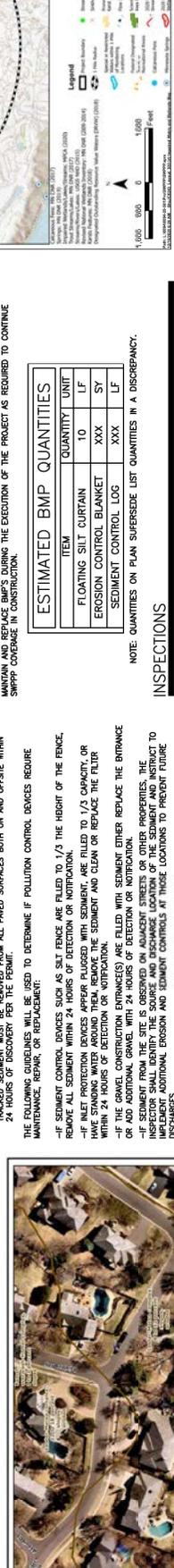
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SURFACE WATERS AND WETLANDS MAP



IMPAIRED WATERS, SPECIAL WATERS, AND WETLANDS

THE PROJECT IS LOCATED WITHIN ONE MILE OF AND DISCHARGES TO AN IMPAIRED OR SPECIAL WATER BODY. ANY SUCH DISCHARGE SHALL BE LIMITED TO LESS THAN ONE HUNDRED (100) GALLONS PER DAY AND WITHIN 1 MILE THAT MAY RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE ARE SHOWN ON THE SURFACE WATERS AND WETLANDS MAP ON THIS SHEET.

SWPPP DOCUMENTS

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CERTIFICATION

IN ACCORDANCE WITH SECTIONS 2.0 AND 21.1 OF THE GENERAL PERMIT AUTHORIZATION TO DISCHARGE TO WATERS OF THE STATE, THE CONTRACTOR HAS REVIEWED AND UNDERSTOOD THE REQUIREMENTS OF THIS SWPPP AND HAS ACCEPTED THE OBLIGATIONS AND LIABILITIES OF BEING RESPONSIBLE FOR THE DESIGN, INSTALLATION, OPERATION AND MAINTENANCE OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT MEASURES DESCRIBED IN THIS SWPPP.

REV	REVISION DESCRIPTION	OWN	APP	REV DATE

DATE: 08/26/2021 | REV: NO. 11397

SOILS MAP

PARTY RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF THE SITE (OWNER): CITY OF EDEN PRAIRIE
CONTACT: PATRICK SEAGRA, WATER RESOURCES ENGINEER
CONTACT PHONE: 952-844-4300
CONTACT EMAIL: PSEAGRA@EDENPRAIRIE.ORG

EROSION AND SEDIMENT CONTROL

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1. INSTALL PERIMETER CONTROL (SEDIMENT CONTROL LOG, SILT FENCE) ON ALL DOWN GRADIENT AREAS OF THE CONSTRUCTION SITE AS SHOWN ON THE SOILS MAP. PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.

GENERAL SWPPP NOTES

ESTIMATED BMP QUANTITIES AND INSTALLATION SCHEDULE

ITEM	QUANTITY	UNIT
FLOATING SILT CURTAIN	10	LF
EROSION CONTROL BLANKET	XXX	SY
SEDIMENT CONTROL LOG	XXX	LF

INSPECTIONS

THE INSPECTION LOG WILL BE COMPLETED BY THE CONTRACTOR FOR THE CONSTRUCTION SITE. INSPECTIONS WILL BE CONDUCTED ON A REGULAR BASIS TO MONITOR THE EFFECTIVENESS OF THE SWPPP. THE CONTRACTOR WILL MAKE CORRECTIONS OR REPAIRS REQUIRED TO COMPLY WITH THE SWPPP. INSPECTIONS AT THE SITE WILL BE COMPLETED IN ACCORDANCE WITH THE PERMIT AS FOLLOWS:

- ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.
- THE INDIVIDUAL PERFORMING INSPECTIONS MUST BE TRAINED AS REQUIRED BY SECTION 21.1 OF THE PERMIT. TRAINING DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR FOR INCORPORATION INTO THIS SWPPP AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN IDENTIFIED.
- DATE OF CORRECTION MUST BE NOTED AS DEFINED IN SECTION 11.11.1 OF THE PERMIT. ANY CORRECTIONS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AND SWPPP MUST BE KEPT ON-SITE FOR THE DURATION OF THE CONSTRUCTION PROJECT.
- AT A MINIMUM, THE FOLLOWING SHALL BE COMPLETED DURING EACH INSPECTION:
 - RECORD DATE AND TIME OF INSPECTION.
 - RECORD THE NAME OF THE INSPECTOR.
 - RECORD THE TYPE OF DEFICIENCIES OBSERVED.
 - RECORD CORRECTIVE ACTIONS AND WHEN THEY WILL BE COMPLETED.
 - RECORD THE DATE OF RE-INSPECTION.
- RECORD REPAIRS AND MODIFICATIONS IMPLEMENTED SINCE PREVIOUS INSPECTIONS.
- RECORD REPAIRS AND MODIFICATIONS IMPLEMENTED SINCE PREVIOUS INSPECTIONS.

WETLANDS, SPECIAL WATERS, AND WETLANDS

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MEMORANDUM

TO: RPBCWD Board of Managers
FROM: Terry Jeffery, Interim District Administrator
Michael Welch, District Counsel
DATE: Oct 6, 2021
RE: Silver Lake Water-Quality Improvement Project

At its April 7, 2021, meeting the board awarded the Silver Lake water-quality improvement project to Molnau Trucking LLC, which was the lowest bidder at \$128,936.18. The board also authorized the interim administrator to issue the notice to proceed on completion of contracting requirements. After completion of the requirements, the NTP was issued by the interim administrator on May 21, 2021. The contract requires Molnau to substantially complete the project by September 30, 2021.¹

As of the date of this memo, Molnau has failed to commence construction, notwithstanding consistent efforts by the engineer to facilitate diligent prosecution of the work. The RPBCWD engineer will brief the managers at the October meeting on prospects for completing the project.

Recommendation: Authorize the administrator to commence proceedings under the construction contract to find Molnau Trucking in default, and to pursue alternative options for completion of the work as provided for in the contract.

¹ The NTP sets the substantial-completion date at September 20, but this is a typo; all other contract documents provide a substantial completion date of September 30. The contract documents provided two windows for completion of the work. September 30 marked the second possible substantial completion date; delays in the contractor's completion of preliminary contracting requirements caused Molnau to miss the first construction window.

MEMORANDUM

DATE: August 25, 2021

TO: Managers and Administrator
Riley Purgatory Bluff Creek Watershed District (RPBCWD; the “District”)

FROM: Larry A. Koch, manager RPBCWD

RE: COVID-19

COVID-19, especially the Delta variant, poses a significant and continuing threat to the health and safety of public including vaccinated individual, be they managers, staff, invitee etc. as has been amply demonstrated by scientific evidence, COVID-19 poses a special threat to those who would not been vaccinated. Besides the threat to a person’s health, employees stricken with COVID-19 cost the District in terms of lost work time, disability benefits and health insurance. Several vaccines for COVID-19 are readily available to all individuals in the state of Minnesota. In is much as watershed districts are created by the Minnesota legislature for the purpose of making decisions regarding protection of our water bodies based upon science, it would be contrary to that purpose to allow any employee eligible to be vaccinated for COVID-19 to be employed by the District and not be vaccinated. In addition, the recent surge in COVID-19 cases for the Delta variant, as prompted government agencies to not only continue, but to reinstate and revise their recommendations to protect the public from the Delta variant, including but not limited to the use of masks, social distance and personal hygiene.

Therefore, I moved the adoption of the following resolution: BE IT RESOLVED

1. That as the District president has determined that COVID-19 continues to poses a serious public health emergency, the managers shall continue to hold their meetings virtually using available interactive technology until further notice;
2. That District staff are hereby directed to
 - 2.1 comply with all laws and regulations pertaining to Covid-19 including but not limited to those established by Minnesota OSHA,
 - 2.2 implement all applicable recommendations of the Center for Disease Control (CDC) and the Minnesota Department of Health, pertaining to COVID-19 whichever are the most protective of managers, staff, and invitees, including but not limited to all recommendations pertaining to the wearing of masks, social distancing and hygiene.
3. That all employees who have not been fully vaccinated against COVID-19 shall be given one day paid leave for each inoculation acquired after the date hereof for such employee to be fully vaccinated against COVID-19.

4. That, except as and to the extent prohibited by law, any employee eligible to be vaccinated against COVID-19 who does not provide proof to the District administrator on or before September 15, 2021 that they are fully vaccinated, shall be terminated effective September 15, 2021, unless submitted to the district's administrator, a written statement from a licensed physician, to the effect that the physical condition of the employee makes vaccination against COVID-19 substantially more dangerous to the employee's health than if they would contract COVID-19, in which case, such employee shall be required to work from home or in the field in which case the employee shall comply with all recommendations and requirements of the CDC and MNOSHA so as to prevent their infection by or spread of COVID-19, unless the District administrator directs all employees to wear masks and imposes such other restrictions or requirements as needed to comply with the recommendations and requirements of the CDC and MNOSHA.
5. That, except as and to the extent prohibited by law, no person shall be hired as an employee or allowed in the District's facilities unless they provide satisfactory proof that they have been fully vaccinated against COVID-19 or any other communicable disease determined by the District's administrator to pose a significant threat to the health and safety of the District's staff, invitees or others with whom the employee may come in contact with in the performance of their duties as a District employee.
6. That, except as and to the extent prohibited by law, all persons in any of the District's facilities or vehicles shall wear a mask covering their nose, mouth and chin, maintain a minimum of 6 feet separation from any other person and wash their hands or use hand sanitizer after touching their face or at other times recommended by the CDC, MNOSHA or other governmental directive.
7. That, the District's facilities and vehicles shall be sanitized after use by any person at all times no person shall be hired as an employee or allowed in the District's facilities unless they provide satisfactory proof that they have been fully vaccinated against COVID-19 or any other communicable disease determined by the District's administrator to pose a significant threat to the health and safety of the District's staff, invitees or others with whom the employee may come in contact with in the performance of their duties as a District employee.
8. That District staff shall implement the foregoing, and shall incorporate the foregoing resolutions in to the District's policy and employment manual and each employee shall acknowledge in writing the foregoing requirements and any other health or safety policy or requirement of the District.

MEMORANDUM

DATE: December 25, 2020

TO: Managers and Administrator
Riley Purgatory Bluff Creek Watershed District (RPBCWD)

FROM: Larry A. Koch, manager RPBCWD

RE: legal review of operations of our RPBCWD

As managers of the RPBCWD it is our responsibility to supervise the operations of the district and ensure that the district's operations comply with the law and best management practices.

It is not possible for us to know all of the details of the operations of the district such as ours. It is possible, however, for the managers to engage qualified third parties to perform reviews of the district's operations from time to time for the purpose of determining whether the district's operations comply with the law and whether the district's operations comport with best management practices. It is in the interest of the managers, staff, and the public that such a review be conducted.

Therefore, at our next meeting of the managers, I currently intend to moved the adoption of the following resolutions:

1. That the firm of Smith Partners be engaged to conduct a thorough legal review of the Riley Purgatory Bluff Creek Watershed District's (the "District") operations and documentation.
2. That such review be completed during the first quarter of 2021.
3. That the fee for such engagement not exceed \$5,000.
4. That such engagement require Smith Partners to prepare and present a written report of results of its review to the managers which report shall at a minimum set forth, (a) all instances of failures to follow applicable laws, rules, etc., (b) recommendations as to how to remedy any such violations and to avoid a repeat of such violations, (c) all instances where Smith Partners believes that the District's operations are not consistent with best management practices, (d) recommended changes to the District's practices such that the District's practices will comfort with best management practices, and (e) such other observations and recommendations as they seem necessary or appropriate such that the managers and the District can comply with all applicable laws and best management practices.
5. That such review and report be completed and presented to the managers and District administrator not later the April 20, 21 meeting of the managers.

6. That such report be put on the agenda for the May 2021 meeting of the managers.
7. That the 2021 budget be amended to include a separate line item in the amount of \$5000 for expenses to be incurred in connection with such review.