

Riley-Purgatory-Bluff Creek Watershed District
Board of Managers Regular Meeting
Wednesday, June 2, 2021 5:00pm Work Session Scheduled 7:00PM Regular Meeting
Virtual Meeting via ZOOM
<https://us02web.zoom.us/j/89631187059>

Agenda

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|---|--------------------|
| 1. 5:00pm Work Session on 10 Year Plan Review | Information |
| 2. 7:00pm Call to Order Meeting of the Board of Managers | Action |
| 3. Introduction of New Staff | Information |
| 4. Approval of the agenda | Action |
| 5. Matters of general 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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| 6. Reading and approval of minutes | Action |
| a. Board of Managers Regular Meeting, May 5, 2021 (with continuance) | |
| b. | |

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| 7. Citizen Advisory Committee | Action |
| a. Report | |
| b. Confirm June Board CAC representative | |

- 8. 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 May Staff Report
 - b. Accept May Engineer's Report
 - c. Accept May Construction Inspection Report
 - d. Accept 2020 Audit Report and authorize Administrator to distribute.
 - e. Approve permit #2021-014 St Hubert School Water Quality Improvement Project with staff recommendations.

- 9. Action Items** **Action**
- a. Pulled consent items
 - b. Accept March Treasurer's Report
 - c. Approve paying of the bills
 - d. Authorize advertisement for bids for the Pioneer Wetland Restoration Project
 - e. Approve permit 2021-012 Nobel Hill with staff recommendations.

- 10. Discussion Items** **Information**
- a. In-Person Meetings Timeline
 - b. Attorney Report
 - c. Administrator Report
 - i. Silver Lake Outlet/Lake Levels
 - d. Manager Report
 - i. Dept of Administration Data Practices (Koch)
 - ii.

- 11. Upcoming Board Topics**
- a. Preliminary 2021 Budget Discussion

- 12. Upcoming Events** **Information**

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

May 5, 2021, RPBCWD Board of Managers Workshop and Monthly Meeting

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 and Watershed Planning Manager
Josh Maxwell, Water Resources Coordinator
Louis Smith, Attorney, Smith Partners
Scott Sobiech, Engineer, Barr Engineering Company

Other attendees:

Jeff Abrahamson*	Mary Krause*
Andrew Aller*	Sarah Lloyd*
Pat Andrican*	Dean Lotter*
Chad Ayers*	Jesse Mercado*
Sue Bennet*	Justin Nilson*
Andrew Berg*	Tim Olson*
Robert Ellis*	Mark Rausch*
Heidi Groven *	Rod Rue*
Greg Hawks*	Sadie Seaborn*
Elizabeth Henley*	Emily Shaw
Pavel Heuer	Leslie Stovring*
Ahsan Ijaz*	Marilyn Torkelson*
	Teri Willow*

**Indicates attendance only at the Regular meeting*

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

1. Workshop: Overview of District's 10-Year Plan

2 President Ward opened the workshop, which was held remotely via meeting platform Zoom.
3 Interim Administrator Jeffery said the purpose of the workshop is to provide an overview of the
4 District's 10-Year Plan and to focus on District project prioritization.

5 Engineer Sobiech shared a PowerPoint presentation about the plan, including when and how it
6 was developed, stakeholder and community outreach involved, the prioritization tool, including
7 metrics, CIP ranking, and project coordination, logistics, and timing.

8 Engineer Sobiech talked in depth about the community survey results and public input and how it
9 helped structure the plan. He reviewed the prioritization inputs, including Use Attainability
10 Analysis studies, the Creek Response Action Survey, Total Maximum Daily Load studies, areas
11 studies such as the Chanhassen Stormwater Retrofit and paleolimnology, feasibility studies, and
12 Local Governmental Unit studies such as vegetation surveys. Engineer Sobiech described the
13 process of prioritizing the projects to include in the plan by evaluating projects based on nine
14 metrics:

- 15 · Number of 10-Year Plan water resources goals addressed
- 16 · Sustainability
- 17 · Volume management
- 18 · Pollutant management
- 19 · Habitat restoration
- 20 · Shoreline/ streambank stabilization
- 21 · Watershed benefits
- 22 · Partnership opportunities
- 23 · Public education.

24
25 Engineer Sobiech went through the initial project prioritization process, the revised prioritization,
26 and the prioritization based on the three major creek watersheds via the major watershed one
27 water approach. He described project logistics that were considered, such as partnerships,
28 accessibility, and cost effectiveness among other logistics. Engineer Sobiech displayed a map
29 showing the distribution of Capital Improvement Projects (CIP) across the watershed and shared
30 the list of the 34 CIP projects identified for implementation. He walked the group through the
31 District's CIP implementation process and displayed the District's decision tree for that process.
32 Engineer Sobiech noted that the District does a biennial re-evaluation of projects, and he said it
33 this process is overdue as it has been roughly four years since the most recent re-evaluation.

34 Engineer Sobiech went through the District's stream management decision tree, groundwater
35 decision tree, and lake management decision tree and noted staff is working toward putting in
36 place this year a shoreline assessment rating. Manager Ziegler asked a question about adaptive
37 management of lakes and Manager Crafton added comments about soil health and ecosystems as

38 well as the factor of community engagement and thanking volunteers. Interim Administrator
39 Jeffery thanked them for their comments and said he wanted this workshop to provide the
40 managers with an understanding of how the District developed its current decision tree and an
41 opportunity to discuss if there are new opportunities to consider or items to reconsider.

42 Engineer Sobiech briefly summarized the District's other programs, including data collection,
43 aquatic invasive species, education and outreach, cost-share/stewardship grants, and the
44 regulatory program. Engineer Sobiech said he will provide this PowerPoint presentation to
45 Interim Administrator Jeffery for distribution to the managers. Interim Administrator Jeffery said
46 he will also post the presentation to the District's website.

47 Manager Koch said the District is required to have all its presentations available to the public at
48 the meeting and the District needs to comply with the requirement. He shared his opinion that it
49 doesn't count to have the presentation available on the website after the meeting. Manager Koch
50 said the District's plan is better than nothing, but the fact is that the CAC at that time was
51 instrumental to making sure there was an economic analysis to projects going forward and a
52 method to evaluate creeks. Manager Koch said it was proposed at that time that there be an
53 evaluation method for lakes, which didn't happen. He said he thinks the District has lost track of
54 its goals and should go back to those goals on a year-to-year basis to determine what do. Manager
55 Koch remarked there was little to no consideration of public comments once the plan was
56 underway. He said in his view, once people comments, there was little or no consideration of
57 those comments once the plan was underway, and certain people had their ideas about developing
58 this plan and took little consideration of others' comments. Manager Koch said he had to literally
59 fight to get certain projects moved up, otherwise it would have been another seven or ten years
60 until those projects had gotten done. He said he thinks the District should look at its goals, look at
61 whether the current plan is accomplishing those goals, and then how to make sure those goals are
62 implemented. Manager Koch raised his concerns about the District having rules but having no
63 way to enforce them. He also commented on how the District is behind schedule in reviewing its
64 plan and doesn't have the check lists. Manager Koch recommended the Board continue this
65 review of the plan, and he wants the slide deck because he wants to make sure the District is
66 accomplishing its goals for the creeks.

67 Manager Pedersen asked for staff input on whether they see projects that should be moved up.
68 President Ward directed staff to consider the question and report back at the Board's June
69 meeting.

70 The workshop ended at 6:04 p.m.

71

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

72 President Ward called to order the Wednesday, May 5, 2021, Board of Managers Regular
73 Meeting at 7:00 p.m. The meeting was held remotely via meeting platform Zoom.

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3. Approval of Agenda

75 Manager Ziegler moved to approve the agenda. Manager Crafton seconded the motion.
 76 President Ward requested laying over Agenda item 9k – Authorize staff and attorney to prepare
 77 contract documents and award the St. Hubert Opportunity Project to Apparent Low Bidder upon
 78 appropriate vetting – until the continuance of this meeting on Monday, May 10 at a time the
 79 Board sets tonight. He explained bids were due today, so SRF wasn’t ready to provide the District
 80 the information on the bid numbers and lowest bidders in time for this evening’s Board meeting.
 81 Manager Koch requested pulling from the Consent Agenda and adding to Action Items 8d -
 82 Approve Cost Share with Shorewood in the Amount of \$50,000 for the installation of sump
 83 manholes and SAFL baffles tributary to Silver Lake. He requested adding an Action item about
 84 the District’s 10-Year Plan to authorize and direct staff and Barr to review the plan and bring
 85 recommendations to the Board.
 86 Attorney Smith reminded staff it is requesting laying over until the meeting continuance items 9d
 87 – Approve contract with SRF for Design and Construction Administration Services for the St.
 88 Hubert Opportunity Project and 9e – Approve Cooperative Agreement with St. Hubert and
 89 Authorize the President to Sign.
 90 Manager Ziegler and Manager Crafton accepted the friendly amendments to the motion. Upon a
 91 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

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4. Auditor Presentation of Annual Audit

95 Interim Administrator Jeffery introduced Mr. Justin Nilson of ABDO, Eick & Meyers LLC to
 96 present the 2020 audit opinion and responsibility and the 509 Implementation Fund results.
 97 findings.

98 Mr. Nilson shared a PowerPoint presentation and reported a clean unmodified audit opinion for
 99 2020. He presented the audit, and shared the one 2020 audit finding, which is a repeat finding
 100 from 2019: compliance finding regarding timing of payments per MN Statute 471.425. Mr.

101 Nilson said from the sample of 25 payments, 4 were paid late, ranging from 2 to 40 days. He
102 recommended the District purchase a stamp to document when bills are received to add a layer of
103 control. Mr. Nilson said MN Statute requires payment by 35 days of the District's receipt of the
104 bill.

105 Mr. Nilson highlighted improvement in 2020 over 2019, explaining the 2020 audit required no
106 material audit adjustments, compared to 2019 in which an adjustment was needed regarding the
107 recognition of grant revenue. He talked about the 2020 509 Implementation Fund results, noting
108 reserves are sufficient. Mr. Nilson said a recommendation moving forward is for the District to tie
109 the reserve funds to a future spending plan, which the District has in future budgets. Mr. Nilson
110 discussed the 509 Implementation Fund Budget to Actual.

111 Manager Koch commented he submitted several pages of multiple questions about audit issues
112 and wanted to know if the auditor received those questions and have answers. Mr. Nilson said
113 yes, the questions have been received and responses are in the process of being prepared.
114 Manager Koch asked clarifying questions about the details of the 509 Implementation Fund
115 Budget to Actual and asked how the District spent over its 2020 budget. Mr. Nilson reminded the
116 Board the audit focuses strictly on one year, and the budget includes one year, and the District has
117 multi-year projects. Manager Crafton said the annual audit captures the transactional data of one
118 year. Manager Koch clarified that the auditor is looking at this data as an income statement. Mr.
119 Nilson responded yes.

120 Manager Koch had further questions. President Ward asked Manager Koch if he could take his
121 questions offline from this meeting and directly to the auditor. Manager Koch responded yes.
122 Manager Koch raised the topic of the District paying interest on the contracts the District paid
123 late. Manager Crafton said the District wasn't asked to. Manager Koch said the statute is clear
124 about paying interest and the District needs to address this and follow up on it. Manager Koch
125 remarked he previously asked, and the District's Legal Counsel agreed, to look at the District's
126 contracts to amend or add a provision to the contracts so the District could avoid this issue. He
127 said the Board can cover this in a discussion with Legal Counsel.

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5. Matters of General Public Interest

129 No matters were raised.

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6. Reading and Approval of Meeting Minutes

131 a. **April 7, 2021, RPBCWD Board of Managers Regular Meeting including April 13, 20,**
132 **and 26 Continuances**
133 Manager Ziegler moved to approve the minutes. Manager Pedersen seconded the motion.
134 Manager Ziegler noted an edit on the April 7th minutes, line 110 to remove the duplicate
135 "and" and on line 170 to remove the duplicate "it." He asked the attendee list on the April
136 13th continuation minutes be revised to reflect the attendance at the meeting. Manager

137 Crafton noted an edit on the April 7th minutes, line 7 to replace the word Administrator
 138 with President. Manager Ziegler and Manager Crafton accepted the friendly amendments.

139 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

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7. CAC

143 Ms. Heidi Groven, new CAC Chair, introduced herself. She reported on the April 19th CAC
 144 meeting, sharing that District staff Mr. Maxwell and Mr. Jeffery each presented at the meeting.
 145 Ms. Groven said the bulk of the CAC’s time at the meeting was spent on watershed education and
 146 outreach and the CAC’s process. She reported there are no citizens issues the CAC is bringing to
 147 the Board this evening.

148

8. Consent Agenda

149 Manager Crafton moved to approve the Consent Agenda. Manager Pedersen seconded the
 150 motion. Manager Koch made the friendly amendment to clarify this agenda accepts the April staff
 151 report, the April Engineer report, and the April construction report, which is the violations, and
 152 that the approval of the three permits are approval of the staff recommendations and resolutions
 153 included in those reports. Manager Crafton and Manager Pedersen agreed to the friendly
 154 amendment. The items on the Consent Agenda included: 8a – Accept t April Staff Report, 8b –
 155 Accept April Engineer’s Report, 8c – Accept April Construction Report, 8e – Authorize
 156 Administrator to Sign FY 2021 Watershed-Based Grant Agreement with the Minnesota Board of
 157 Water and Soil Resources for the St. Hubert Opportunity Project, 8f – Approve permit 2021-008
 158 for Minnetonka High School Momentum Building Addition with Staff Recommendations, 8g –
 159 Approve Permit 2020-051 for Biolyph Addition with Staff Recommendations; 8h – Approve
 160 Permit 2021-019 for Lake Riley Park Playground with Staff Recommendations.

161 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

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9. Action Items

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a. Items Pulled from Consent Agenda

i. Approve Cost Share with Shorewood in the Amount of \$50,000 for installation of sump manholes and SAFL baffles tributary to Silver Accept March Construction Inspection Report

Manager Koch wanted details about the amount and what is being approved. Mr. Jeffery said he would like Board input about the amount, because it was written in the bids as 50% or \$50,000 whichever is less. He asked if the Board wants to focus on incentivizing the cities to come to the District with opportunity projects. Mr. Jeffery said right now the language in the proposed cost share states \$50,000; however, \$50,000 would exceed 50% of the bid for the project. He asked if the managers want to leave it at \$50,000 or decrease to 50%. Manager Koch said he thinks the District is bound by its cost share rules, and this project could instead be considered for opportunity project funds. Manager Koch moved to approve the cost share with Shorewood for the lesser of \$50,000 or 50% and authorize staff to reach out to Shorewood to encourage the City to apply for opportunity project funds. Manager Ziegler seconded the motion.

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

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

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b. Accept March Treasurer’s Report

Manager Crafton stated the report has been reviewed in accordance with internal controls and procedures. She moved to accept the March Treasurer’s Report. Manager Pedersen seconded the motion.

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

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

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c. Approve Paying of Bills

Manager Crafton moved to pay the bills. Manager Pedersen seconded the motion. Upon a roll call vote, the motion carried 5-0 as follows:

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

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d. Approve Contract with SRF for Design and Construction Administration Services for the St. Hubert Opportunity Project

[Item laid over until the meeting continuance on May 10th.]

e. Approve Cooperative Agreement with St. Hubert

[Item laid over until the meeting continuance on May 10th.]

**f. Consider Variance from Discharge Rate Criteria of Rule J for 2021-016
Duck Lake Road**

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206 Engineer Sobiech reminded the Board this project has been ongoing for several years,
207 has been discussed by the Board, and is part of a cooperative agreement. He shared a
208 PowerPoint presentation. Engineer Sobiech provided project background and
209 summarized the project components, including reconstruction of 1,900 feet of Duck
210 Lake Road, construction of 2,100 feet of five-foot sidewalk and 1,700 feet of multi-use
211 trail, restoring the Duck Lake outlet to MnDNR permitted condition, dedication of
212 wetland buffer, construction of a French drain, constructing a stormwater infiltration
213 basin, and proprietary hydrodynamic separator, and four proprietary pretreatment
214 structures, constructing or reconstructing five outfalls into Duck Lake, and replacing the
215 existing 12-inch culvert under Duck Lake Road.

216 Engineer Sobiech went through the resource and site summary, describing potential
217 water resource impacts to Duck Lake and the wetland 05-33-A on the western portion of
218 Duck Lake. He provided information about the Duck Lake Outlet and the work to
219 determine appropriate outlet elevation in east Duck Lake. Engineer Sobiech stated part
220 of this project is to restore the outlet to its permitted control elevation.

221 Engineer Sobiech reviewed the project’s rule compliance summary, explaining the
222 applicant is requesting variances from three stormwater management criteria, including
223 peak discharge rate, treating offsite runoff, and 10-year bounce. He talked about the
224 District’s Rule K – variance criteria and listed the District’s criteria against which
225 assessment of practical difficulty is conducted.

226 Regarding the applicant’s variance request 1 for rate control, Engineer Sobiech
227 presented the Engineer’s review against the District’s criteria and found the variation
228 from District standards is not substantial, has a relatively low flow impact on the creek
229 and low potential to adversely impact government services or flood elevations and
230 channel stability in Purgatory Creek. Engineer Sobiech explained the technical method
231 that would alleviate the practical difficulty would be to replace the existing culvert in
232 kind, which would not achieve the project flood reduction goal or restore a portion of
233 the lakebed. He stated the practical difficulty occurred as the applicant created the
234 circumstances leading to the compliance shortfall but did so to restore a portion of the
235 Duck Lake lakebed, reduce flooding, and improve safety. Engineer Sobiech
236 summarized that the Engineer finds adequate technical basis for the District to find the
237 practical difficulty outweighs the significance of the deviance from District standards.
238 He responded to managers’ questions about flow and discharge increase. Manager Koch
239 said he thinks this variance is premature without the data about what would happen to
240 Duck Lake flood elevations if outflow is restricted. Manager Ziegler talked about the
241 weir design and purpose and how its an improvement.

242 Manager Ziegler moved to approve variance 1 based on staff’s technical review and
243 recommendations and conditions as presented. Manager Crafton seconded the motion.

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

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

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247 **g. Consider Variance from Treating Off-site Run-on Criteria of Rule J for**
 248 **2021-018 Duck Lake Road**

249 Engineer Sobiech presented the Engineer’s review against the District’s criteria and
 250 found the deviation from the standards to be substantial. He explained the project
 251 proposes to treat 24% of the site, but because the applicant is proposing to treat runoff
 252 from a portion of the adjacent school property to the required annual total suspended
 253 solids and total phosphorous removal requirements, the proposed alterations won’t
 254 adversely affect governmental services, water resources, flood levels, or neighboring
 255 properties. Engineer Sobiech stated the pointed out the practical difficulty is due to the
 256 limited area available to provide water quality treatment on the project site and the
 257 topography challenge to route the runoff to areas suitable for construction of best
 258 management practices. He pointed out the project design provides additional resource
 259 protection because it provides treatment in excess of the requirements.

260 Engineer Sobiech summarized the Engineer finds adequate technical basis for the
 261 District to grant the variance to allow the treatment of the offsite runoff in lieu of strictly
 262 treating site runoff, as long as the City enters into an agreement with the school district
 263 to commit to maintenance of the drainage right necessary for continuing compliance
 264 with the permit and District regulatory requirements.

265 Manager Ziegler moved to approve variance 2 based on staff’s recommendation and
 266 conditions as presented. Manager Crafton seconded the motion. Manager Koch asked
 267 for more details about the applicant’s proposal to treat runoff from the school parking
 268 lot and the risk of offsite treatment if the offsite area is somehow redeveloped. Engineer
 269 Sobiech provided details, addressing the potential net shortfall when considering the
 270 school campus in combination with the roadway project. Manager Koch commented he
 271 finds granting variances for this project unpalatable.

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

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

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h. Consider Variance from Wetland Protection Criteria of Rule J for 2021-016

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Engineer Sobiech stated variance 3 is related to the District’s wetland protection criteria and achieving the 10-year bounce. He presented his review of the District’s criteria. He reminded the Board that one of the goals of the project was to reduce the upstream flood levels and protect property.

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Engineer Sobiech explained that by doing so, the project exceeds the allowable half-foot change in the 10-year bounce by 0.43 feet, which is about 1.86 times that allowable amount. He stated the proposed alterations will reduce flooding frequency of governmental services and increase flood protection for neighboring properties.

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Engineer Sobiech said the changing bounce is not reasonably likely to have an adverse impact on the wetland.

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Engineer Sobiech clarified the only technical measure to eliminate the need for the variance would be to replace the existing culvert in kind, which would not achieve the project flood reduction goal or restore a portion of the lakebed. He stated the applicant created the circumstances leading to the variance in order to restore a portion of the lakebed of Duck Lake, reduce flooding problems west of Duck Lake Road, and improve pedestrian and vehicular safety. He summarized the Engineer finds adequate technical basis for the District to rely on to grant the variance.

293

Manager Ziegler moved to approve variance 3 based on staff’s recommendation.

294

Manager Crafton seconded the motion. Manager Koch asked clarifying questions about the project and variance. 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

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- i. Approve Permit 2021-016 for Duck Lake Road with Staff Recommendations**
 Manager Ziegler moved to approve Permit 2021-016 Duck Lake Road with staff recommendations and conditions. Manager Pedersen seconded the motion. 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

- j. Consider Request for Modification of Financial Assurance for 2019-051 Berrospid Addition**
 Engineer Sobiech reported the District received a request from the applicant requesting a reduction in the project’s financial assurance requirement. Engineer Sobiech said there are three elements to the request:
 - The applicant now has an actual contractor’s quote for the construction of the stormwater management facilities and is asking the District to use the number from that quote
 - The applicant is asking for the removal of the sediment control and erosion elements from the financial assurance requirement because the City is also holding funds to cover those features
 - The applicant is asking for the removal of the \$5,000 assurance associated with the chloride management plan, because he submitted a chloride management plan communicating he doesn’t intend to use chlorides on the private street.

Engineer Sobiech summarized that at this time the Engineer is not recommending a change from what was approved regarding the assurance for the sediment and erosion control elements because the financial assurance sitting with the City does not provide for the District to access those funds should they be needed. Engineer Sobiech recommended the request to use the contractor’s quote to compute the financial assurance for the construction of the stormwater management facilities be allowed. He said the Engineer suggests that the \$5,000 financial assurance for the chloride management plan could be eliminated with the caveat that the chloride management

326 plan be recorded as part of the maintenance declaration to make sure property complies
 327 with this plan should the properties change ownership. Engineer summarized the
 328 Engineer’s recommendation is that the financial assurance be reduced from \$64,629 to
 329 \$46,845.

330 Manager Ziegler moved to reduce the financial assurance to \$46,845 for permit 2019-
 331 051 on the condition to the chloride provision as presented by the Engineer. Manager
 332 Pedersen seconded the motion. Manager Koch remarked if the applicant had time to get
 333 a quote, he had time to get a contract, and the quote means next to nothing. He moved to
 334 amend the motion to provide that the Rule J amount be adjusted to the 125% of a signed
 335 and delivered contract by the contractor and we keep in place the fee for the chloride
 336 management plan until he records the plan as part of the maintenance declaration.
 337 President Ward seconded the motion.

338 Upon a roll call vote, the motion to amend failed 2-3 as follows:

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

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341 Manager Koch asked about the District’s enforcement abilities regarding the chloride
 342 management plan. Interim Administrator Jeffery said this topic would be a good Board
 343 workshop topic. He explained the purpose of the chloride management provision was to
 344 educate property management on what chloride management means and incentivize
 345 people to do the Pollution Control Agency training on chloride management. Interim
 346 Administrator Jeffery said right now the District doesn’t require the chloride
 347 management plan to be recorded with the property. Engineer Sobiech reminded the
 348 Board that the District holds all permits until all the conditions are fulfilled. He
 349 explained that with Manager Ziegler’s motion, in order for the applicant to start
 350 construction, he would need to record the chloride management plan with the
 351 declaration and provide that information to Interim Administrator Jeffery before the
 352 permit is released.

353 Attorney Smith said in this case, this applicant is seeking to be released from the \$5,00
 354 financial assurance regarding the chloride management plan and is willing to record to
 355 the property that there won’t be any salt use. Attorney Smith said the ultimate goal is to
 356 reduce chloride use, and if someone is willing to record on the property that no chloride
 357 will be used, the District’s goal is met. He said the broader issue being raised is does the

358 District want to require all permit applicants to record on the property the chloride
 359 management plan.

360 Manager Koch made the friendly amendment to the motion on the table that the
 361 declaration must be signed and recorded before signing and issuing the permit.

362 Managers Ziegler and Pedersen accepted the friendly amendment. Upon a roll call vote,
 363 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

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366 President Ward directed Interim Administrator Jeffery to bring the broader topic again
 367 to the Board for future discussion.

368 **k. Authorize Staff and Attorney to Prepare Contract Documents and Award**
 369 **the St. Hubert Opportunity Project to Apparent Low Bidder Upon**
 370 **Appropriate Vetting.**

371 [Item to be discussed at the meeting continuation.]

372 **l. District’s 10-Year Plan**

373 Manager Koch moved to authorize and direct staff and Barr to confer, review the 10-
 374 Year Plan, and bring recommendations to the Board. Manager Pedersen seconded the
 375 motion. Manager Ziegler made the friendly amendment to the motion to also direct staff
 376 to review the soil health in regard to the District’s 10-Year Plan and how to incorporate
 377 soil health into the Plan. Managers Koch and Pedersen agreed to the friendly
 378 amendment. Upon a roll call vote, the motion carried 5-0 as follows:

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

Ziegler	Aye
---------	-----

10. Discussion Items

379 a. Draft Cooperative Agreement Between Bearpath Golf and Country Club and
380 RPBCWD; Overview of 90% Plans for Middle Riley Creek Stabilization
381 Project; Land Use Agreement for Use of Private Road for Middle Riley
382 Creek Stabilization Project

383 Engineer Sobiech said the draft cooperative agreement included in the packet is revised
384 from the draft agreement the Board saw last year. He reported the project is at the 90%
385 design level and said Bearpath is willing to work with the three private property owners
386 where the District would need a temporary license for construction access.

387 Engineer Sobiech said Bearpath indicated this week an interest to incorporate additional
388 language that would show the District and Bearpath’s interest to continue long-term and
389 holistic approach to the golf course management. Attorney Smith described the interest in
390 the holistic approach as communicated by Bearpath and said Bearpath is providing
391 general language for the District to consider.

392 Manager Koch said he wants to make sure this agreement has the appropriate conditions
393 that the District is not obligated unless and until it has required all the rights it needs to do
394 the work and whatever other conditions may be appropriate, so that it is up to the District
395 to decide when and whether to move forward. He asked if the agreement has language to
396 minimize the possibility of the District being held liable for defective design. Engineer
397 Sobiech said he and Attorney Smith can review the agreement for these items.

398 Engineer Sobiech said Bearpath would like to allow the District to get into doing the
399 streambank work sooner and before Bearpath does its work on the golf course restoration.
400 Manager Koch said the agreement needs to have an adequate schedule of work,
401 incorporate the respective plans, and make sure there is no conflict between the plans.

402 President Ward asked about the District’s timeline for the project. Engineer Sobiech said
403 staff plans to bring the bid package to the Board in June and solicit for bids in June with
404 the intent of awarding the project in July. He said staff anticipates construction starting
405 late August or early September, starting and finishing the north site before moving to the
406 south site.

407 Manager Jeffery noted this agenda item was an update to the Board, and if members of
408 the public have comments, to please contact him or submit comments to him in writing.

409 b. Discuss Permit Application #2021-012 Noble Hill

410 Engineer Sobiech shared a map and pointed out the proposed project site north of Flying
411 Cloud Drive and the proposed development of the 32-acre site into 50 single-family lots.
412 He pointed out the location of the high-value wetland adjacent to the creek on the project
413 property and pointed out where Fredrick Miller Spring is in relation to the proposed
414 project site. Engineer Sobiech summarized existing versus proposed conditions. He

415 talked about the proposal to buffer the steep slope, noting there is one high-risk erosion
416 area along that slope.

417 Interim Administrator Jeffery reported Pulte Homes hired a geological engineer who
418 determined the source of the spring is on the west side of spring Road. He talked about
419 the recharge area lying west of the creek. Manager Koch asked staff to ask the applicant
420 for a map that lays the proposed project plan over the topographic map. He asked where
421 water from the hard surfaces will discharge and what will protect the slope and creek
422 from erosion. Interim Administrator Jeffery went into detail about the District's Rule J
423 and proposed site infiltration.

424 Manager Pedersen brought up the loss of trees proposed with the project and how the
425 slopes will stay put once the trees are removed. Interim Administrator Jeffery said much
426 of the tree removal is removing the tree farm, and the project proposes retaining walls to
427 stabilize the slope.

428 Manager Koch asked if there could be an opportunity project with this project that would
429 help achieve goals not otherwise able to be achieved thorough the District's rules. Interim
430 Administrator Jeffery said he will bring it up with the applicant.

431 .

432 **c. Attorney Report**

433 Attorney Smith said regarding the finding in the District's 2020 audit about the payments,
434 he has been in discussion with Interim Administrator Jeffery about a proactive way to
435 address the issue. He explained that for those vendors with whom the District has
436 services agreements, an easy solution provided for under statute is to provide for a longer
437 period of time until due, such as 45 days instead of 35 days.

438 Attorney Smith raised the topic of the statutory requirement of keeping a journal of votes.
439 He said the District's adopted Bylaws state the minutes approved by the managers serve
440 as a journal of votes. He reminded the Board it decided last year not to seek an advisory
441 opinion about the keeping of a journal of votes. Attorney Smith reported another entity
442 sought an advisory opinion on the topic, and in January 2021, the opinion provided was a
443 public body must keep a journal of votes separately from its minutes. He said that opinion
444 is now irrelevant because today the legislature presented the Governor legislation stating
445 the obligation is to keep either a journal of votes or minutes, and the minutes are an
446 adequate record of votes for the public body. Attorney Smith said he will keep the Board
447 apprised, as the legislation will become law unless the Governor vetoes it or doesn't sign
448 the legislation.

449 **d. Administrator Report**

450 Interim Administrator Jeffery talked about topics for a future workshop. The Board and
451 staff agreed to hold its next workshop in July and for a draft preliminary 2022 budget to
452 be ready for Board review and discussion in July. Interim Administrator Jeffery
453 announced the District has hired an Education and Outreach Coordinator.

454 **e. Managers' Report**

455 Manager Crafton raised the topic of a letter from Metro MAWD regarding issues causing

456 friction between Districts and BWSR. She asked that the District support Metro
457 MAWD's letter. Interim Administrator Jeffery said he received that letter this afternoon
458 and will forward it to the managers. Manager Crafton asked if this topic could be
459 discussed in Monday's continuance of this meeting. Attorney Smith said this matter
460 could be considered in the continuance under the managers' reports.

461 Manager Ziegler thanked staff for their work with the minutes.

462 Manager Koch said he thinks the Board needs to address its outstanding data practices
463 requests. He said another issue is that the District is required to have a copy of materials
464 the Board considers available to the public during the meeting. Manager Koch asked that
465 the District follow the requirements of the law and post those materials. He asked that
466 today's presentations get posted. President Ward said the District's legal counsel looked
467 into this issue Manager Koch is raising. Attorney Smith said the Open Meeting Law
468 requires the materials that are part of the Board's printed meeting packet be distributed
469 either beforehand or be available after to the public, and he wouldn't understand
470 PowerPoint slides to be part of those printed materials. He said the public has the same
471 access as the managers to the PowerPoints, and as a courtesy the District could provide
472 those, but he doesn't see it as a requirement. Attorney Smith said as a practical matter,
473 the PowerPoint presentations aren't always developed at the same time as the meeting
474 packet. He said the key is that the public have access to it the same as the managers.

475 Manager Koch expressed his disagreement with Attorney Smith's statements. He said he
476 believes Attorney Smith is wrong and a copy of the PowerPoint has to be available for
477 inspection at the meeting and displaying a PowerPoint on the screen is not making a copy
478 available to the public for their inspection. He said that's his position, and Attorney Smith
479 can have his position, and it can be seen how far that goes. Manager Koch said the
480 presentations can be available on the website and to come up with a lame excuse is not
481 very professional.

482 Manager Koch said regarding payment of interest on invoices that were not paid by the
483 District within 35 days. He said the District has an obligation to pay interest, and the
484 District doesn't have to like it. He said the minimum the District has to do is follow
485 statute, and the statute is to pay interest if the District doesn't pay invoices on time.
486 Manager Koch asked the accountants on whether anyone contacted them about this issue,
487 and contrary to what people said, nobody asked the accountants. He said the District
488 needs to pay its contractors what its due. He said over a year ago he asked and Legal
489 Counsel agreed to review District contracts to see if there is a way to put a provision in
490 the contracts to eliminate this issue. Manager Koch said that needs to be done.

491 Manager Koch asked Manager Ziegler to clarify if he has signed all the minutes.

492 Manager Ziegler said he has signed all approved minutes.

493

11. Upcoming Board Topics

494 President Ward noted upcoming events and clarified Manager Crafton is the liaison at
495 the next CAC meeting. President Ward said the Board will hold a workshop at 5:00 p.m.
496 on June 2nd with the topic to be determined and will hold a budget workshop prior to the
497 Board's July meeting.

498

12. Upcoming Events

- 499 · CAC Meeting, May 17, 2021, 6:00 p.m., virtual
- 500 · Board of Managers Regular Meeting, June 2, 2021, 7:00 p.m.

501

13. Action to Continue Meeting

502 Manager Koch moved to continue the meeting to Monday, May 10 at 8:30 a.m. Manager Ziegler
503 seconded the motion. Upon a roll call vote, the motion carried 5-0 as follows:

504

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

505

506 The meeting was continued at 9:43 p.m.

507

508

509

510

Respectfully submitted,

511

512

513

514

David Ziegler, Secretary

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

May 10, 2021, 8:30 a.m. RPBCWD Board of Managers Continuation of May 5, 2021,
Monthly Meeting

PRESENT:

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

Staff: Amy Bakkum, Administrative Assistant
Terry Jeffery, Interim District Administrator and Watershed Planning Manager

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

9d. Approve Contract with SRF for Design and Construction Administration Services for the St. Hubert Opportunity Project

- 1 Interim Administrator Jeffery stated an addendum to the District's contract with SRF would be
2 needed to address the revisions to scope of services as discussed by the Board two meetings ago.
3 He said to additions include educational services, water reuse tasks, final design tasks and
4 construction services.
- 5 Manager Koch asked for more clarification about the services revisions. Interim Administrator
6 Jeffery provided more detail about certain services that were included in SRF's original scope's
7 not to exceed amount, but now the District has capacity to do some of those services in-house.
8 Manager Koch said there is a written resolution as required by the recorded revision by the
9 District's bylaws to adopt this. He said he won't approve anything retroactively and he won't
10 approve anything with blanks in it. He recommended SRF go back and do their work.
- 11 Interim Administrator Jeffery explained why the contract includes services that were already
12 completed and what services remained to be completed. Manager Koch asked if Administrator
13 Bleser had the authority to approve the contact. Attorney Smith said the governance manual
14 provides the Administrator delegated authority by the Board to spend up to \$10,000 for change
15 orders. He said his best guess is the former Administrator understood that authority to cover this
16 additional scope for professional services. Attorney Smith say it is legal counsel's view that the
17 term change order is a term in construction agreements and further that the District's Governance
18 Manual provides that when the Administrator does issue such change orders, the Administrator
19 informs the Board.

20 Manager Koch asked for more details on what this contract states the District will pay for and
21 what it isn't paying for, and he remarked that this is bad contract administration. Interim
22 Administrator Jeffery said the total upcharge for the three additional scopes is \$18,399. He said
23 that amount will be reduced by \$5,000 because the educational graphics can now be done in
24 house by District staff.

25 Manager Pedersen moved to approve the administrative contract with SRF up to \$18,399 for the
26 St. Hubert Opportunity Project. Manager Crafton seconded the motion. Attorney Smith said staff
27 and legal counsel's recommendation is that the Board authorize the District Administrator to
28 execute the agreement.

29 Manager Koch said he is not going to approve what he considers to be a bad job of presenting a
30 contract amendment. He said there should be a spreadsheet and a resolution instead of wasting
31 time debating. Manager Pedersen said she sees this as one of those items that is a result of the
32 transition between the former District Administrator and Interim District Administrator. She said
33 the District's legal counsel has reviewed the contract, and staff and legal counsel recommend this
34 action. Upon a roll call vote, the motion carried 4-1 as follows:

35

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

36

9e. Approve Cooperative Agreement with St. Hubert

37 Interim Administrator Jeffery provided background about the cooperative agreement, noting
38 the biggest change from the previous draft is that now the playground equipment is outside
39 the scope and some indemnification language was added to agree the District would ensure
40 any consultant or contractor working on behalf of the District indemnifies St. Hubert.

41 Manager Crafton moved to approve the Cooperative Agreement. Manager Pedersen
42 seconded the motion. Manager Koch commented this agreement is one of the more poorly
43 drafted agreements he has had the occasion to review, because it is redundant, inconsistent,
44 not complete, includes no exhibits, and includes is an indemnification provision on page 7.
45 He commented on the termination language and said there's a host of items that need to be
46 reviewed and revised in this contract. Manager Koch asked why maintenance is being
47 capped and said he's not in favor of maintenance caps. He noted the bids are \$50,000 over
48 estimate.

49 Attorney Smith said the cap on maintenance is consistent with the Scenic Heights
50 Elementary school reforestation project since there was apprehension about the maintenance
51 exposure. He noted that from a practical aspect, it's his understanding that it's best for the
52 maintenance plan to be developed and agreed to after the project is constructed.

53 Administrator Jeffery reported that St. Hubert is contributing to the project \$45,000 plus the
54 playground costs and the project has been awarded a Metropolitan Council grant in the
55 amount of \$75,000, and \$63,865 from Clean Water Legacy grant funds, and \$25,000 from
56 Carver County SWCD for engineering design costs.

57 Manager Koch said he doesn't think the agreement should include a cap and it has
58 redundancies that should be avoided. He also asked about how the contract addresses people
59 to access the property and educational signage. Administrator Jeffery said signage is part of
60 the project and if it's not addressed in the contract, he will make sure it's addressed in the
61 maintenance agreement. Manager Koch recommended the District develop a template for a
62 cooperative agreement and a template for a maintenance agreement. He added that he thinks
63 developing a maintenance agreement after project construction is bad practice and should be
64 part of the overall approval.

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

66

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

67

9k. Authorize Staff and Attorney to Prepare Contract Documents and Award the St. Hubert Opportunity Project to Apparent Low Bidder Upon Appropriate Vetting

68 Interim Administrator Jeffery reported bid opening was held May 5th and the low bidder is
69 Minger Construction Company. He noted the bid is for the entire project, not just the water
70 quality portion. He introduced Ms. Erin Hunker of St. Hubert.

71 Manager Pedersen moved to award the contract to Minger Construction in the amount of
72 \$270,644. Manager Crafton seconded the motion.

73 Manager Koch commented this isn't a good presentation on bids, and it strikes him as
74 inconsistent or at least ambiguous with the cooperative agreement. He said the Board shouldn't

75 be agreeing to a contract until it know exactly what St. Hubert will be paying. Ms. Hunker said
76 that of the base bid by Minger Construction Company, \$13,342.50 will be paid by St. Hubert.
77 She said St. Hubert will pay all six items in the bid alternate for a cost of \$111,356.00.

78 Administrator Jeffery clarified that St. Hubert has 10 days from when the District awards the
79 project to the apparent low bidder to approve any of the bid alternates or add-ons. Attorney Smith
80 said there has been a coordinated discussion, and St. Hubert is tracking each step of this process,
81 but before the District could share legally all this information with St. Hubert, the District needed
82 to wait for bid opening and have the Board authorize the contract, after which St. Hubert would
83 make their final decisions about what's included in the project, which would then be finalized
84 accordingly. Manager Koch said the District shouldn't award the bid without the contingencies
85 for acceptance of those items that St. Hubert would pay for. He said this is a calamity that needs
86 to be reworked.

87 Attorney Smith said he thinks the suggestion is well taken that the motion should include that the
88 total final contract amount is contingent on St. Hubert's communication of the acceptance of
89 those alternate pieces. Manager Pedersen amended her motion to include the language about the
90 total final contract amount being contingent on St. Hubert's communication of the acceptance of
91 those alternate pieces, as stated by Attorney Smith. Manger Crafton accepted the friendly
92 amendment. Attorney Smith reiterated that the motion on the table is to award the contract to
93 Minger Construction, authorize the Interim Administrator to sign the agreement in the amount of
94 270,644 contingent upon communication from St. Hubert on their acceptance of the alternate.
95 Manager Koch commented this doesn't make any sense.

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

97

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

98

99 Manager Koch remarked it wasn't clear to him what was being voted on, and he thought it was a
100 vote to amend the motion.

101 Manager Crafton moved to authorize the Interim District Administrator to sign the watershed-
102 based implementation funding grant agreement with the Minnesota Board and Water Resources
103 in the amount of \$63,865 to be applied to the St. Hubert project. Manager Pedersen seconded the
104 motion.

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

106

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

107

108

13. Adjournment

109 President Ward referenced comments provided in previous Board meetings, and he stated
110 that disrespectful and unprofessional comments will not be tolerated in the future.

111 President Ward adjourned the meeting and left the meeting.

112 Manager Koch noted the meeting is not adjourned because there needs to be a vote, and he
113 asked if President Ward knows how to conduct a meeting. Manager Koch said he thinks the
114 District should have BWSR listen to these dialogs and Hennepin County likely would be
115 interested in these dialogs as well.

116 Vice President Pedersen moved to adjourn the meeting. Manager Crafton seconded the
117 motion. Upon a roll call vote, the motion carried 4-0 as follows:

118

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

119

120 The meeting adjourned at 9:12 a.m.

121

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129

Respectfully submitted,

David Ziegler, Secretary

Draft Minutes: May 17, 2021
RPBCWD Citizens' Advisory Committee Monthly Meeting
Virtual Via Zoom

Member Attendance (By each name, put a P=Present, E=Excused, not present but with notification or A=Absent with no notification)

Andrew Aller	P	Samuel Griffin	P	Terry Jorgenson	P	Jeff Weiss	E
Rodey Batiza	P	Heidi Groven	P	Sharon McCotter	P	Jessica Wiley	P
Kim Behrens	P	Michelle Frost	P	Jan Neville	P		
Jim Boettcher	P	Peter Iverson	E	Marilynn Torkelson	P		
Terry Jeffery	RPBCWD staff		P	Prof. C. Alexander	University of MN		P
Liz Forbes	RPBCWD staff		P	Rebecca Prochaska	Eden Prairie resident		P
Amy Bakkum	RPBCWD staff		P	Elaine Evans	U of MN Bee Lab		P
Jill Crafton	BOM		P				

Key CAC MOTIONS for the Board of Managers:

1. CAC recommends the BOM delays their decisions on the Nobel Hill Project permits as statutorily allowed, to give the citizen petition time to go through the appeal process to the district court.
2. CAC asks the BOM to Direct WD staff to compile spring and seep data for the lower valleys of RPB creeks to input into the MN DNR's Spring Inventory.

I. Opening

- A. **Call CAC meeting to Order: 6pm**
- B. **Attendance:** As noted above.
- C. Staff and Manager introductions
- D. **Matters of general public interest:** Elaine Evans, Assistant Extension Professor, U of M, spoke about concerns that the Noble Hill Project would directly or indirectly impact the Rusty Patched BumbleBee habitat, an endangered species with remaining populations found mostly in urban Minnesota.
- E. **Agenda Approved**
- F. **Approval of April 19, 2021 CAC Meeting Minutes:** Jim made the motion which was seconded by Terry J to approve the April CAC minutes.

II. Board Meeting Recap and Discussion -

- A. Highlights from the (monthly) managers meeting were presented by Heidi. The Duck Lake Road bridge project was approved by BOM after discussion, St. Huberts School project was approved. Terry Jeffery gave an overview of the Nobel Hill development. Dorothy Pederson suggested working with Pulte to develop a CIP for Chloride Reduction in the Nobel Hill Development Project.
- B. Board Response to CAC recommendations: Dorothy Pederson suggested WD staff work with Pulte to develop a CIP for Chloride Reduction in the Nobel Hill Development Project.
- C. New Advisory Topics from the Board (none)
- D. Questions from CAC and/or highlights (if needed)

III. Program and Project Updates;

A. Nobel Hill, Citizen Environmental Protection Update:

1. Rebecca Prochaska (10 minutes) Eden Prairie resident, representing a citizen's group with the Goal to protect the Lower Riley Creek watershed area from negative environmental impacts. This proposed development area has Prairie Bluff Conservation area to the east and south as well as the Minnesota River Valley National Wildlife Refuge to the southeast. The EQB approved the citizen petition for Environmental Assessment Worksheet (EAW) signed by over 3,000 people, but the City of Eden Prairie denied the citizen petition. The citizens group wants the city to re-consider the proposed development impact on this unique environment, topography and the effect on water quality by removing forest cover including heritage trees and adding hardscape. Concerns include:
 - a) The existing Hennepin Village housing community includes 360 homes and these additional 50 would exceed 400 which exceeds the zone limit. (although done in stages) an EAW should be completed.
 - b) This area is an important fly zone for migratory birds
 - c) An adequate survey for the Rusty Patched Bumble Bee, which is listed as endangered under the Endangered Species Act and may nest in this area, has not been completed. (the queen bees hadn't yet emerged from their winter hibernation underground when assessed).
 - d) \$2 million + engineering and administration fees have been spent on Lower Riley Creek Ecological Restoration. This project is not aligned with the goals and assessing the potential to increase erosion and pollution is warranted.
 - e) There are erosion concerns and a slope stability assessment is requested. Grading and tree removal may increase the likelihood of landslides, 15 foot retaining walls may fail raising safety concerns.

Interim Administrator Terry Jeffrey asked whether an Alternative Urban Area Review (AUAR) assessment has been requested. An AUAR looks at the cumulative effects of development which better matches concerns.

2. Professor Calvin Alexander, University of Minnesota, Professor Emeritus, who has studied the groundwater of this area for decades presented the following. He walked this area and identified more than a dozen springs which he added to the MN DNR Spring Inventory System. He noted this area is very unstable.
 - a) There's been a recent collapse at Richard T. Anderson Conservation Area as seen from the parking lot and another collapse behind the homes on Vogel Farm Road as visible on Google Earth.
 - b) He stated Pulte Engineers used decades old MN Geologic Survey maps which have been replaced in 2018 by more detailed maps.
 - c) Prof. Alexander has not been able to access water quality data for Frederick Miller Spring which the city says they are monitoring. Coliform bacteria levels are increasing in the Creek. Interim Administer Terry Jeffrey asked if the Department of Health has been monitoring Spring. No. Terry J. asked Prof. Alexander to define spring versus seep. Seep is less than a gallon per minute and spring is more than a gallon per minute.
Interim
 - d) AdminTerry noted that the EAW consists of 34 questions but does not look at stability of slopes. The EAW is a precursor to an EIS. The WD has to respond to permit applications within 60 days but they can ask for a 60 day extension as well. Says initial review of Pulte development plan shows it meets WD rules.
 - e) Links to powerpoint slides are here:
[Watershed RP.pptx](#)
[Prof. Alexander's slides](#)
Elaine Evans, Assistant Extension Professor, PhD, Entomology, U of M,
Bee Lab email: Evan0155@umn.edu

3. Ms Prochaska requests the CAC recommend the BOM pause Nobel Hill development permits until the appeal for an EAW has been made by the citizens group.

Kim made a motion that the CAC recommends the BOM delay the decision on Nobel Hill Project permits as statutorily allowed to give the citizen petition time to go through the appeal process to the district court. Terry J. seconds: 11 voted yes, 1 abstained.

Sharon made a 2nd motion, which Jan seconded to Direct WD staff to compile spring and seep data for lower valleys of Riley Purgatory and Bluff Creeks to input into the MN DNR's Spring Inventory. 12 members voted in favor.

The question was raised about collecting slope data. Interim Administrator Terry Jeffrey noted that it is not in WD's current purview to collect slope stability data. This is something that could be added to the watershed's rules in the future. Plan for discussion at a future CAC meeting.

B. District Learning Presentation

1. WD Project Prioritization Presentation by Administrator Jeffery, Chapter 4 of the WD's 10 year plan. 11 of 34 projects completed, others are underway or being studied.
2. Staff Update: Eleanor Mahon new E&O person for WD.
3. CAC district's website & Google Drive presented by Staff Forbes

IV. CAC Process and Function

- A. Member were asked to update their background Info on the website
- B. Discussion of possible CAC Recommendations for Board of Managers. Sharon asked if there was interest in joining the BOM workshops for upcoming strategic planning. Andrew is interested. Members were also asked of interest in participating in the annual district internal scorecard, especially about including the DEI section. No action indicated.
- C. CAC officer appointments: The chair indicated a desire for a person with deeper experience especially on advising BOM, to become chair. No one stepped forward, so will re-address at the June meeting. Heidi agreed to chair the June meeting and identify what would make it possible for her to continue as chair.
- D. In-person meeting re-entry: June will take place by Zoom
- E. Workgroups? Postponed due to lack of time
 1. CAC to BOM Communication Process-how to get info earlier (find document
 2. Develop Process to Identify Citizen concern for the CAC

V. 2021 Calendar

- A. Board meeting volunteer needed to cover July 7th. Terry J. would prefer to cover August 4th meeting instead of July.

VI. Planning Next Meeting

- A. Interest in forming a sub-committee to plan Learning and Project Planning topics
- B. Define discussion topic for health ecosystem/wetland

VII. Upcoming Events and Meeting Close.

- A. RPBCWD Board of Managers June 2nd , 2021; 7:00 PM Regular board meeting – virtual Zoom meeting - Kim to attend on behalf of the CAC
- B. RPBCWD CAC Meeting June 21st, 2021; 6:00 PM – virtual Zoom meeting; Manager Ward to attend on behalf of the Board
- C. Sharon made a motion and Terry J. seconded to adjourn the meeting. All were in favor. Mtg. adjourned at 8:06pm

RPBCWD May Staff Report

Administration		Staff update	Partners
Accounting and Audit	<p>Coordinate with Accountants for the development of financial reports. Coordinate with the Auditor. Continue to work with the Treasurer to maximize on fund investments.</p>	<p>Staff Bakkum and Interim Administrator Jeffery compiled the monthly treasurer’s report. Interim Administrator Jeffery was finally able to obtain a replacement credit card from Elan Financial Services as the previous card had been in the former Administrator’s name. Because of the absence of a card, staff frequently used their own credit cards and many times for significant purchases such as repair of District automobiles.</p>	
Administration		<p>Interim Administrator Jeffery is finalizing to grants in with BWSR related to the pond study and is initiating the St Hubert grant.</p> <p>Interim Administrator Jeffery met with Chanhassen City Manager Laurie Hokkanen to discuss potential collaboration on various projects including making the Lake Ann preservation area and interpretive passive park. They will be convening a working group to develop ideas.</p> <p>Interim Administrator Jeffery and the Carver County Land Records have updated, and confirmed, the properties subject to the boundary change.</p>	

Hiring		<p>Eleanor Mahon joins the District staff as the new Education and Outreach Coordinator. She is a graduate of UW-Madison and comes to us with a background in community resilience. She has already begun to take on outstanding projects and work with members of the CAC.</p> <p>Data Collection/Water Quality Interns Abby Tekiela and Jared Fladebo started this month. They are both returning interns from last year.</p>	<p>Nine Mile Creek Watershed District</p>
Annual Report & Communication	<p>Compile, finalize and submit an annual report to agencies.</p>	<p>Annual report is complete. Staff will begin drafting a new outline to comport with manager comments for use with the 2021 report. Staff Mahon has begun working on the 2021 Annual Communication which is the calendar we alternate with Nine Mile in putting together.</p>	
BWSR	<p>Discuss Targeted Watershed Grant Distribution.</p>	<p>Working with BWSR to closeout grants.</p>	<p>9-Mile WD Eden Prairie BWSR Bloomington Chanhassen Carver Co. Hennepin Co. LMRWD</p>

			Minnetonka Waconia
DEI	Diversity, Equity and Inclusion	Interim Administrator Jeffery asked staff to use a standardized email signature created by Staff Forbes that includes preferred pronouns.	Metro Watershed Partners
Human Resources	General Human Resources	No new updates	
Internal Policies	Work with Governance Manual and Personnel Committees to review bylaws and manuals as necessary.	Interim Administrator Jeffery has started to review the proposed changes to the Personnel Manual and is hoping to meet with the Personnel Committee to further discussion on proposed 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 held a regular meeting on May 17. Presentations included a learning presentation by Administrator Jeffery about RPBCWD project prioritization and an update on the Noble Hill development by an Eden Prairie resident and a U of M emeritus faculty member. Discussion continued about CAC officer appointments and CAC Process and Functions.	

Local SWMP		No change.	
MAWD		No update.	
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>The new public interface is up and running for the permit database and application. You can view that here: MS4 Permit Software (ms4front.net)</p> <p>Eleven applications for a permit have been received since the May meeting. Four in Eden Prairie; three in Chanhassen; two in Deephaven; one each in Minnetonka and Bloomington.</p> <p>Ten permits have been administratively approved since the May meeting. This includes four (4) road rehabilitation projects; two new homes on existing lots of record; the replacement of an existing outlet that is not in contact with the bed or bank of a waterbody; directional drilling of new NGPL in conjunction with a mill and overlay project; the installation of an in-ground swimming pool; and the installation of a retaining wall.</p>	

<p>Aquatic Invasive Species</p>	<p>Review AIS monitoring program. Develop and implement Rapid Response Plan as appropriate Coordinate with LGUs and keep stakeholders aware of AISmanagement activities. Manage and maintain the aeration system on Rice Marsh Lake. Riley Chain of Lakes Carp Management. Purgatory Chain of Lakes Carp Management. Review AIS inspection program. Keep abreast in technology and research in AIS. Zebra mussel adult and veliger monitoring.</p>	<p>The Purgatory Creek Rec Area (PCRA)/Staring fish barrier remained closed over the winter and into spring. Staff have removed 511 carp below the barrier across four sampling events. Staff will continue to monitor the location and conduct further removal events if warranted. Rice Marsh aeration. During the last sampling event in early March, Dissolved Oxygen levels were below 1mg/L indicating a winterkill. Staff have been looking into the possibility of an additional surface agitator unit to be placed in the lake in combination with the existing system due to the frequency of kills recently. Staff purchased and stocked 1,000 bluegills to – 800 Rice Marsh Lake and 200 in Purgatory Creek Recreational Area. These stockings should prevent carp from having a successful recruitment year. Staff were notified of a significant goldfish population in the stormwater pond closest to the Eden Prairie Outdoor Center last month. A trial removal event was conducted and 196 were captured in 40 minutes using backpack electrofishing. Staff purchased a large seine net to improve capture efficiencies, but it arrived after most goldfish groupings broke up. Staff also were notified of Goldfish in Kerber Pond draining to Lotus. Duck Lake was sampled with both gears but only 133 were captured. Staff will be looking into the use of rotenone (fish toxin) for treating stormwater ponds with significant goldfish populations. This would occur in the winter months on stormwater ponds if approved. Staff have also been working with Carver County on additional removal techniques.</p>	<p>City of Chanhassen City of Eden Prairie University of Minnesota MN DNR Carver County</p>
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Cost-Share	<p>Schedule and coordinate site visits.</p> <p>Review applications and recommend implementation.</p> <p>Evaluate program.</p>	<p>More than 35 site visits with potential WSG applicants have been conducted in 2021. A total of seven WSG agreements have been executed so far in 2021. Five additional grant agreements are pending signatures or approaching the signature stage. Four WSG applications are pending review.</p> <p>Staff Forbes continues to expand content on the WSG webpage to help potential applicants understand the application process.</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>WOMP stations: samples were collected 3 times this month for the Metropolitan Council.</p> <p>Staff conducted two regular stream sampling events and one regular lake sampling event in May. They will now be conducted biweekly through the growing season.</p> <p>Staff have placed one sampling station near stream site B5 (Hwy 5). This will assess/confirm upstream loading for the proposed upcoming stream restoration. Staff will be placing auto sampling units at additional locations early this month where more information is needed.</p> <p>Staff Dickhausen assisted Chanhassen with the installation of an Enviro DIY station on Minnewashta.</p> <p>Staff Maxwell and Chanhassen conducted a site visit on Lake Riley with a resident that had concerns about shoreline detritus/muck.</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>City of Minnetonka</p>
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>	<p>District Staff, Barr Engineering, and Eden Prairie staff have been in discussions about updates to the District's stormwater model within the City (both Purgatory Creek and Riley Creek models). District have installed monitoring equipment 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>	<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>

<p>Education and Outreach</p>	<p>Implement Education & Outreach Plan, review at year end. Manage partnership activities with other organizations. Coordinate Public Engagement with District projects.</p>	<p>Staff Bakkum continues to receive inquiries via the District website’s “Contact Us” form. Staff Bakkum met with MPCA staff to discuss Smart Salting promotion. Staff Mahon will join future discussions and assist in distribution of promotional materials. On June 23rd staff will lend equipment (Decon Unit and Boat) to the DNR to use in the in-person Level 2 Watercraft Decontamination Training. Staff are evaluating website content to identify organizational, stylistic, and accessibility improvements. The website consultant improved RPBCWD website security on May 16 by migrating the existing site from http to https. Staff Toavs has delivered all adopt-a-dock plates.</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>Groundwater Conservation</p>	<p>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).</p>	<p>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.</p>	<p>Metropolitan Council City of Eden Prairie City of Shorewood City of Bloomington City of Minnetonka City of Chanhassen</p>

<p>Lake Vegetation Management</p>	<p>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. Lakes the District is monitoring for treatment include: Lake Susan, Lake Riley, Lotus Lake, Mitchell Lake, Red Rock Lake, and Staring Lake. Work with Three Rivers Park District for Hyland Lake.</p>	<p>Spring herbicide application surveys were completed, and diquat herbicide was applied. Below is a list of what is proposed/confirmed to be treated - what herbicide will be used – likelihood/confirmation of treatment:</p> <ul style="list-style-type: none"> • CLP - Red Rock - 13.04 acres • CLP - Mitchell - 12.8 acres • CLP - Lotus - Diquat – 20 acres – June 1st • CLP - Riley - Diquat – 22.3 acres • CLP - Susan - Diquat – 8.64 acres <p>Staff received reports of a limited fish kill on Red Rock Lake which have been due to stress associated with spawning, columnaris bacteria, and herbicide application. It was noted as minor.</p> <p>This year Point Intercept Vegetation Surveys will be conducted on:</p> <ul style="list-style-type: none"> • Red Rock • Staring • Riley • Idlewild • McCoy 	<p>City of Eden Prairie City of Chanhassen University of Minnesota MNDNR</p>
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Opportunity Projects	Assess potential projects as they are presented to the District.	Interim Administrator Jeffery and Staff Forbes are working with the City Engineer from Shorewood to implement the grant and supplemental cost share for the installation of structural BMPs at outfalls to Silver Lake. Interim Administrator Jeffery and Staff Maxwell are working with the City of Shorewood to identify any cause for the decline in water level in Silver Lake.	ISG Staring Lake Outdoor Center The Preserve Association St Hubert School Shorewood
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 new updates	
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.	Staff and University of Minnesota staff have been working to get access to additional ponds for sampling as well as to continue the iron filings research in 2021. The U of MN has a new project funded by the Local Road Research Board to study wetlands (historic/converted to pond) and they will be 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, University of MN,

			Wenck, and Limnotech.
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 have been working on WCA and ACOE permit applications for District projects. Staff Jeffery is working with Joe Bischoff from Barr Engineering to develop the ecosystem services assessment.	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 consultant will compile information into a plan for implementation.	On May 26 Staff Forbes participated in a communications discussion with a subgroup of the Hennepin Countywide Chloride Initiative. The topic was development of materials for property managers that encourages reduced winter salt use. Another subgroup meeting will be held in late June or early July.	

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.	LMRWD, RBWMO, NMCWD
Bluff Creek One Water			
Bluff Creek Tributary Restoration	Implement and finalize restoration. Monitor Project.	On hold till Spring.	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.	Plans have been developed. These plans will employ a shrub carr to prevent proliferation of cattails into the restoration area. This has been found to be equally as effective as deeper open water and will be less costly. Interim Jeffery is in conversations with BWSR to extend the grant as a result of delays caused by the pandemic. Staff will be conducting a site visit with City of Chanhassen staff in June to review the site's wetland delineation report.	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 will continue.	
Lake Susan Improvement Phase 2	Complete final site stabilization and spring start up. Finalize and implement E and O for the project. Monitor project.	No new updates	City of Chanhassen Clean Water Legacy Amendment
Lake Susan Spent Lime	2021 startup and monitoring.	The unit will be turned on this month and an Enviro DIY unit will be placed to monitor water levels. Multiple samples have already been collected.	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.	On hold till Spring.	City of Eden Prairie Lower MN River Watershed District
Rice Marsh Lake Alum Treatment	Continuing to monitor the Lake.	No new updates.	City of Eden Prairie City of Chanhassen
Rice Marsh Lake Watershed Load Project 1	Conduct feasibility. Develop cooperative agreement with City of Chanhassen.	No new updates	City of Chanhassen
Upper Riley Creek	Work with city to develop scope of work(in addition to stabilizing the creek can we mitigate for climate change). Conduct feasibility. Develop cooperative agreement with the City of Chanhassen. Order project and begin design.	Based upon Engineer Sobiech and Interim Administrator Jeffery's presentation to Chanhassen City Council and conversations with the Engineering Department, Chanhassen has indicated a desire to collaborating on the project and have dedicated funds to the project.	City of Chanhassen
Middle Riley Creek	Work with Bearpath HOA/Golf Course to develop scope of work (in addition to stabilizing the creek can we mitigate for climate change and provide for an improved recreational experience). Draft feasibility report. Develop cooperative agreement with Bearpath.	Engineer Sobiech and Interim Administrator Jeffery will be bringing this before the board at the July meeting or at a special meeting. Given the nature of the work and the function of the property, it is a time sensitive project. Engineer Sobiech and Counselor Smith have been working with Bearpath Ownership to develop a Cooperative Agreement. Engineer Sobiech and Counselor Smith have been working with Bearpath HOA to develop an access agreement to use private roads.	Bearpath Neighborhood Association. City of Eden Prairie Dept. of Natural Resources
St Hubert Water Quality Project		The Notice to Proceed has been issued to Minger Construction. They are set to begin work the week of June 7 th . Interim Administrator Jeffery and Staff Mahon are working with the school to develop curriculum. Engineer Sobiech and Interim Administrator	CCSWCD Metropolitan Council City of Chanhassen

		Jeffery met with a soil scientist from Barr to discuss sampling protocols to determine the impact of prairie restoration on soil health as well as ways for student to be involved in a living classroom setting.	
Purgatory Creek One Water			
PCRA Berm		Staff met last month with Wenck Engineering, City Partners and the MNDNR to finalize the plan on the repair of berm and modifications to the overflow structure after changes were made from the last meeting. Additional details will be gathered on impacts to Technology Drive, interim hydrology modeling, District rules triggered, estimated cost, and the US Army Corp input on project. A Technical Advisory Panel will be scheduled. Tentative partial installation of the project is scheduled in October.	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 will add phosphorus monitoring at a second location on Lotus Lake in the east bay. This will allow staff to better assess the alum treatment effectiveness across Lotus Lake.	
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.	Interim Administrator Jeffery worked with the new staff liaison for the project to provide education as to on-going maintenance requirements.	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 has been provided with the Notice to Proceed. Work is tentatively scheduled to begin on August 1 st .	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. He is hoping to meet with the Personnel Committee upon completion of all reviews to discuss results and next steps. 		

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing May 2021 Activities for June 2, 2021, Board Meeting
Date: May 27, 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 May 2021.

General Services

- a. Continued working with Counsel Smith to revise the draft cooperative agreement with Bearpath Golf and Country Club of the Middle Riley Creek project.
- b. Participated in a May 13th meeting with Bearpath Golf and Country Club to discuss the revised draft cooperative agreement, updated plans for Middle Riley Creek, project timeline, permitting requirements, and needed agreements with private property owners to facilitate access.
- c. Coordinated an May 3rd meeting with Interim Administrator Jeffery and one of Barr's Senior Hydrogeologists to discuss Fredrick Miller Springs.
- d. Met with Bearpath Country Club representatives on May 3rd to tour areas of the golf course to discuss the potential future course modifications, wetland restorations and opportunities for continued partnerships. Also met with Bearpath Country Club representatives on May 17th to walk the area with the landscape architect, discuss vegetation alternatives, tree removals, site restoration, cooperative agreement coordination, and site access.
- e. Met with Interim Administrator Jeffery on May 19th to discuss the 10-year plan, begin identifying potential enhancements and policies, and plan for the June Board workshop.
- f. Met with Interim Administrator Jeffery and Counsel Smith on May 25th to review proposed changes to the Bearpath Country Club cooperative agreement for the Middle Riley Creek project.
- g. Met with Interim Administrator Jeffery on May 11th to discuss RPBCWD regulatory database and begin framing up a standard operating procedure.
- h. Prepared materials for May 5th workshop on the 10-year plan and capital improvement program and participated in workshop
- i. Participated in an May 25th meeting with President Ward, interim Administrator Jeffery, and Counsel Smith to discuss upcoming June 3th Agenda.
- j. Participated in the May 5th regular Board of Managers meeting.
- k. Participated in the May 10th continuance of the May 5th regular Board of Managers meeting.

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
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- I. Prepared Engineer's Report for engineering services performed during May 2021.
- m. Miscellaneous discussions and coordination with Interim Administrator Jeffery about the 2022 budget process, upcoming board workshop, regulatory program, , and upcoming Board meeting agenda.

Permitting Program

- a. *Permit 2019-051: Berrospid Addition* – This project is proposing to split an existing lot with one single family home at 7406 Frontier Trail in Chanhassen, MN into three separate lots for the addition of two single family homes. The proposed project triggers RPBCWD's floodplain management, erosion control, wetland and creek buffer, and storm water management rules. At the August 5, 2020 meeting, the Board of Managers conditionally approved permit 2019-051. Informed the applicant of the Board's approval of a revision to the financial assurance amount.
- b. *Permit 2020-051: BIOLYPH Parking* – This project is a 0.55-acre parking lot expansion at the BIOLYPH building in Chaska, MN. The permit triggers RPBCWD's Erosion Prevention and Sediment Control Rule (Rule C) and Stormwater Management Rule (Rule J). Stormwater management facilities include an underground storage system with hydrodynamic separators and a rainwater harvest and reuse system. Reviewed April 9th and April 22nd submittals and provided comments. Informed the applicant of the Board's conditional approval.
- c. *Permit 2020-060: Christian Brothers Automotive*– This project proposed construction of an auto care center and associated parking areas on Crossroads Boulevard in Chanhassen, MN. A subsurface stormwater management facility is proposed to provide volume control, water quality, and rate control. The project triggers the erosion prevention and sediment control rule and the stormwater management rule. Started reviewing the revise submittal on received on May 20th.
- d. *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. Participated in a May 19th meeting with the applicant to discuss floodplain compensatory storage and channel stabilization methods.
- e. *Permit 2021-008: Minnetonka High School Momentum Building Addition* – This project consists of proposed building addition located at 18301 Highway 7 in Minnetonka. Site improvements include construction of a building addition, new sidewalks, grading, landscaping, and related utilities. A subsurface stormwater management system will provide stormwater rate, volume, and water quality control. The project triggers the erosion prevention and sediment control rule and the stormwater management rule. Informed the applicant of the Board's conditional approval.
- f. *Permit 2021-012: Noble Hill*– The applicant is planning a low-density residential development consisting of 50 single-family homes on a 32-acre site in Eden Prairie, Minnesota. The site contains large varying slopes including steep slopes within a high-risk erosion area as delineated by the District and most of the site discharges to a wetland which abuts Riley

- Creek on the western border of the site. The proposed development of 50 single-family homes will include construction of associated streets, underground utilities, and stormwater features. Three infiltration basins and one sediment basin are proposed to provide stormwater quantity, volume and quality control. The proposed project triggers RPBCWD's erosion prevention and sediment control, wetland and creek buffers, and stormwater management rules. The revised submittal permit application was received on April 13th and determined to remain incomplete. Participated in an May 25th virtual meeting with the applicant Participated in an April 30th conference call with the applicant about the review comments focused on the high risk erosion areas. Reviewed the May 3rd and May 4th revised submittal and drafted a revised permit report for legal review. Participated in a May 25th conference call with the applicant to discuss the status of the permit. Finalized review of revised submittal and draft a permit report for consideration at the June 2nd regular meeting.
- g. *Permit 2021-014: St Hubert Water Quality Improvement Project*– A collaborative project between RPBCWD and St. Hubert Catholic School proposes playground improvements, gully erosion repair, parking lot removals prairie restorations, and the construction of a median tree trench, stormwater depressions, and a rain garden to provide volume control, water quality, and rate control. The proposed project triggers RPBCWD's erosion prevention and sediment control, and stormwater management rules. Finalized review of revised submittal and draft a permit report for consideration at the June 2nd regular meeting.
- h. *Permit 2021-015: Groveland Street Reconstruction*– The City of Minnetonka is proposing a linear reconstruction project within the Groveland Neighborhood of Minnetonka, MN. The portions of Groveland School Road and Lowell Street within RPBCWD will construct 34,700 square feet (SF) of reconstructed impervious area and 1,400 SF of new impervious area. Because the work on Groveland Road and Lowell Street are not adjacent the two work areas will be permitted separately. The proposed project triggers RPBCWD's erosion prevention and sediment control, and stormwater management rules. The applicant is proposing to use an existing infiltration basin on private property for stormwater management due to limited space within the ROW. Reviewed the April 27th revised submittal, provided review comments, and notified the applicant the application is considered complete. Received a revised submittal on May 24th.
- i. *Permit 2021-016: Duck Lake Road reconstruction*: The project includes full reconstruction of Duck Lake Road from Duck Lake Trail to Mallard Court in Eden Prairie, MN. The project also includes replacing the culvert under Duck Lake Road with a bridge, installing a backyard drain behind the homes along pardons Drive, constructing an infiltration basin, filling a portion of the floodplain of Duck Lake, and restoring the lake outlet to the elevation permitted by the DNR in 1969. This project will trigger RPBCWD Rules B, C, D, E, F, G, and J. Informed the applicant of the Board's conditional approval and worked with the applicant on coordinating with the MNDNR for the fill in public water.
- j. *Permit 2021-017: Middle Riley Creek Stabilization*– The project will involve the stabilization of two segments of Riley Creek upstream of Lake Riley; a southern reach between the Hole #16 fairway and green, approximately 580 feet in length and a northern reach west of the Hole #13 tee box, a length of approximately 390 feet. To accommodate the creek stabilization, Bearpath Country Club will elevate hole #13 tee boxes, moving them to the east, and remove a portion of the existing impervious trail and improve hole #12 green area. The project includes realigning the existing creek channel, grading to reconnect the creek with its

- floodplain, installation of rock riffles, cross vanes, and J-hook vanes within the channel at key locations to provide grade control and reduce the potential of further erosion. Three infiltration basins and one sediment basin are proposed to provide stormwater quantity, volume and quality control. The proposed project triggers RPBCWD's floodplain management, erosion prevention and sediment control, wetland and creek buffers, shoreline and streambank stabilization, waterbody crossings, and variance rules. Reviewed application materials, coordinated with applicant, and began drafting a permit report.
- k. *Permit 2021-019: Lake Riley Park Playground:* The project proposes to reconstruct a portion of Riley Lake Park in Eden Prairie, Minnesota for the construction of a new playground area and equipment, as well as construction of connecting sidewalks, ADA parking stalls, supporting underground utilities, and an underground stormwater management facility. The proposed project triggers RPBCWD's erosion prevention and sediment control and stormwater management rules. Informed the applicant of the Board's conditional approval at the May 5th Board of Managers meeting and worked with the applicant to finalize the maintenance agreement.
 - l. *Permit 2021-028: Morimoto City Homes:* The project proposes to develop a 2.8-acre site into 4 new townhome buildings and associated parking along Hennepin Town Road just south of Anderson Lakes Parkway in Eden Prairie, MN. The proposed project triggers RPBCWD's erosion prevention and sediment control, wetland buffers, and stormwater management rules. The first and second submittals were provided on April 16 and May 17, respectively. Comments to applicant were provided on May 7 and May 20, but because no permit fee has been provided by the applicant, the application is considered incomplete. No additional review will be conducted until the application fee is provided.
 - m. *Permit 2021-038 Burger King-* The project proposes to reconstruct a Burger King at the intersection of Eden Prairie Road and Highway 5. The proposed project triggers RPBCWD's erosion prevention and sediment control and stormwater management rules. Reviewed the April 26th submittal. Provided review comments to the applicant on May 16th informing the applicant the submittal was incomplete because of missing snowmelt modeling, engineer's opinion of probable cost, and soil borings at the proposed stormwater facility. Participated in a May 25th call with the applicant engineer on May 25th to answer questions about review comments.
 - n. Participated in an April May 24th preapplication meeting with Interim Administrator Jeffery to discuss the proposed Foxhill development (4-lot development) in Chanhassen, just west of Great Plains Boulevard (Hwy 101). The discussion focused on the need for the project to provide wetland buffers and stormwater management (including wetland protection criteria).
 - o. Miscellaneous preapplication calls from applicant with questions about rule applicability and criteria.
 - p. 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. Worked with staff Maxwell to identify 2021 monitoring and locations to collect data on pre-project locations for potential capital improvement projects based on the current timeline in the 10-year plan.
- b. Prepared, loaded, and verified RMB laboratory (RMB) reports.
- c. Updated an Enterprise Report for the RPBCWD dashboard.
- d. Worked with RMB labs to correct electronic data deliverables (EDD).

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. Review new discrete auto-sampling procedures with MCES staff.
- b. Storm event sampling.
- c. Download and review data.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Download and review data.
- b. Storm event sampling.
- c. Station maintenance – auto-sampler clean up and pest control, and change desiccants.

Task Order 24B: Silver Lake Water Quality Improvement Project

- a. Continued coordination with contractor (Molnau), district staff, and legal for execution of all contract documents and agreements with private property owners. All contraction documents fully-executed (except Notice to Proceed – waiting on signature by Molnau) and agreement with private property owner now fully-executed.
- b. Compiling “Issued for Construction” contract documents
- c. Coordination with contractor (Molnau) regarding submittals and anticipated construction schedule (Molnau not planning to do any work at project site until August 1 or later (second construction window as outlined in the contract documents)).

Task Order 26: Stormwater Model Update and Flood-Risk Area Prioritization Identification for the Bloomington Portion of Purgatory Creek

- a. On May 7th the Final report documenting the process for developing the prioritization framework, source information, and initial prioritized list of flood-prone areas was provided to RPBCWD, City of Bloomington, and NMCWD. This was the final deliverable for Task Order 26.

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

- a. Met with City on 5/25 to discuss City's comments on the 60% design and coordination with City's neighborhood street reconstruction project.
- b. Development of 90% drawings and proposed conditions modeling.
- c. Development of permitting report to meet District requirements.
- d. Development of technical specifications and 90% engineer's opinion of probable cost.
- e. Development of 90% soil amendment design and monitoring plan and native vegetation types for restoration plan.

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

- a. Barr provided updated plans to Bearpath for review on May 11th, and met with representatives of Bearpath to review on May 13th.
- b. Barr staff met on site with Bearpath representative to review vegetation plan on May 16th, and additional adjustments were made to the design based on feedback from Bearpath representatives.
- c. A draft permit application was submitted to the USACE April 23. A wetland report from RPBCWD staff is needed in order to complete the submittal. Permit applications to the City of Eden Prairie are scheduled to be submitted in June with updated information from Bearpath (provided in May) related to tree removal.
- d. On April 14th the DNR requested that the District complete a full review of the project under the general permit, as the DNR is short-staffed. This requires modification of the original RPBCWD design report and permit application to encompass Rules F, G, and K. Barr staff provided an updated report to RPBCWD for review on May 4.
- e. Due to ongoing coordination related to finalizing the cooperative agreement with Bearpath, the presentation of the bid package with updated drawings, specifications, and cost estimate was shifted to the July 7th board meeting (unless a special meeting is called sooner than that to review).
- f. Golf Course construction is still tentatively slated for September 2021, with the goal of finishing the tee areas by October 1st, and stream work construction wrapping up in November/December 2021.
- g. Discussed wetland permitting status with Interim Administrator Jeffery. RPBCWD staff is responsible for the wetland delineation report based on the 2020 field investigations. Once staff have the report, finalizing the remaining wetland permitting efforts will be turned over to Barr to move the process forward.

Task Order 30B: Pioneer Trail Wetland Restoration Project

- a. Preparing 100% cost estimate and specifications.
- b. 100% design drawings and OPC completed and sent to District on May 26.
- c. RPBCWD permit application submitted to District on 5/17.

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing May 2021 Activities for June 2, 2021, Board Meeting
Date: May 27, 2021
Page: 7

- d. Provided project information and reviewed District prepared Joint Application requesting WCA no-loss approval and USACE Nationwide Permit applicability. Currently under agency review.
- e. The project will be discussed for approval at the June 3 Board meeting. Ad for bid and bid opening will take place immediately after the project is approved.

Task Order 032A: Upper Riley Creek Ecological Enhancement Plan

- a. Finalized the Ecological Enhancement Plan.

Task Order 033: Wetland Assessment – Phase 1

- a. Continued drafting field data collection needs and methodologies to support the framework including Floristic Quality Assessment methodologies.
- b. Continued building example framework to demonstrate the ranking scheme and metrics. Focused on nutrient cycling and habitat. Started development of hydrology example.
- c. 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. Staff continued subdividing watershed divides that are used in the District's stormwater model for Riley Creek and Purgatory Creek. Subwatershed divides are being added such that the level of resolution in the model is consistent with the level of detail in the City of Eden Prairie's subwatershed GIS file. Subwatershed divides for Riley Creek are complete and being reviewed prior to submitting to City of Eden Prairie staff for review. Subwatershed divides for Purgatory Creek are anticipated to be complete next month.
- b. Barr coordinated with staff Maxwell and City of Eden Prairie staff to select 10 locations to measure water levels. Measurements will be collected throughout the summer and fall. Model validation will occur in the spring of 2022.
- c. 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. Currently staff are working on subwatershed delineation. This summer work will shift into adding additional details for the storm sewer system. In 2022,

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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. Staff began reviewing background data for the site. Any additional data collected by the District was requested for review.
- b. Staff will conduct and site visit and assessment in June.



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

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2021-014

Considered at Board of Managers Meeting: June 2, 2021

Received complete: April 21, 2021

Applicant: St. Hubert Catholic School – Rob Schlegel

Representative: SRF Consulting Group, Inc. – Leah Gifford

Project: The St. Hubert School Water Quality and Native Restoration Project – a collaboration with RPBCWD – proposes playground improvements, gully erosion repair, parking lot removals prairie restorations, and the construction of a median tree trench, stormwater depressions, and a rain garden to provide volume control, water quality, and rate control.

Location: 8201 Main Street, Chanhassen, MN 55317

Reviewer: Katie Turpin-Nagel, Barr Engineering; 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 June 2, 2021 meeting of the managers:

Resolved that the application for Permit 2021-014 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 of the permit have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver to the applicant, Permit 2021-014 on behalf of RPBCWD.

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

Applicable Rule Conformance Summary

Rule	Issue	Conforms to Rule?	Comments	
C	Erosion Control Plan	See comment.	See rule-specific permit condition C1.	
J	Stormwater Management	Rate	Yes	
		Volume	Yes	See rule-specific stipulation 4 and 5
		Water Quality	Yes	
		Low Floor Elev.	Yes	
		Maintenance	Yes	
		Chloride Management	See comment.	See rule-specific stipulations 6
		Wetland Protection	N/A	
L	Permit Fee	N/A		
M	Financial Assurance	N/A		

Background

The applicant proposes replacing the existing tire mulch with artificial turf, playground improvements,, repair of an eroding gully, native prairie restoration, and construction of a rain garden, two stormwater depressions, and a median tree trench to provide volume control, water quality, and rate control.

The project site information is summarized in Table 1

Table 1. Project site information

Project Site Information	Area (acres)
Total Site Area	10.6
Existing Site Impervious	2.68
Post Construction Site Impervious	2.82
New (Increase) in Site Impervious Area	0.14 (5% increase)
Disturbed impervious surface (acres)	0.04 (1.4% disturbance)

Project Site Information	Area (acres)
Total Disturbed Area	1.71

Exhibits:

1. Permit application dated March 15, 2021 (Notified applicant on March 30, 2021 that submittal was incomplete)
2. Project Plan set dated March 15, 2021 (revised April 21, 2021, revised May 11, 2021)
3. Stormwater Report dated March 15, 2021 (revised April 21, 2021, revised May 11, 2021)
4. Preliminary Infiltration Testing dated March 13, 2021
5. Existing and Proposed HydroCAD Models received March 29, 2021 (revised April 21, 2021, revised May 11, 2021)
6. Existing and Proposed Conditions MIDs Models received March 29, 2021 (revised April 21, 2021, revised May 11, 2021)
7. Review Responses dated April 21, 2021 (i.e., the applicant's responses to the March 30th incomplete notice/review comments)
8. Review Responses dated May 11, 2021 (i.e., the applicant's responses to the April 29th complete notice/review comments)
9. Review Responses dated March 30th, 2021
10. Review Responses dated April 29th, 2021

Rule Specific Permit Conditions

Rule C: Erosion and Sediment Control

Because the project will alter 1.71 acres of land-surface area 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 SRF Consulting Group, Inc. includes installation of sediment bio-roll/wood chip filter log, inlet protection for storm sewer catch basins, daily inspections, placement of a minimum of 6 inches of topsoil, decompaction of 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 general contractor responsible for the site. RPBCWD must be notified if the responsible party changes during the permit term. This information is required prior to issuance of the permit.

Rule J: Stormwater Management

Because the project will involve 1.71 acres of land-disturbing activity, 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 only apply to the disturbed areas on the project site because the project increases the imperviousness by 5

percent and disturbs 1.4 percent of the existing impervious surface on the site (Rule J, Subsection 2.3) (See table above). The extent of disturbance and imperviousness increase are less than the 50 percent disturbed or expanded impervious area threshold for applicability of stormwater management requirements to the entire site.

The project includes construction of a rain garden, stormwater depressions, and a tree trench located in the parking lot median to provide runoff volume abstraction, water-quality treatment, and rate control. Pretreatment of runoff prior to entering the tree trench and the rain garden is provided by Rain Guardian Bunker and Turret structures, respectively.

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 Table 2. The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.a based on the models provided.

Table 2. Rate control summary

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
To Storm Sewer	12.9	11.4	20.6	19.5	38.1	36.3	2.2	1.9

Volume Abstraction

Subsection 3.1.b and 2.3 of Rule J require the abstraction onsite of 1.1 inches of runoff from all disturbed and additional impervious surface of the site. An abstraction volume 0.017 acre-feet (719 cubic feet) is required from the 0.18 acres of new and reconstructed impervious area on the project for volume retention.

Infiltration tests conducted for the surface soils at the site indicate silty and clayey soils with infiltration rates ranging from 0.06 – 0.25 inches/hour. In addition, the applicant submitted evidence of standing water on a portion of the pervious site areas which also indicates the existing soils have low infiltration capacity. Soil borings have not been completed at the site and infiltration tests at the bottom of the proposed BMPs have not been performed, as required by Rule J, Subsection 3.1.b.ii.c. The applicant has included language in the specifications requiring the contractor to dig two tests pits at the tree trench and one test pit at the

filtration basin for infiltrometer testing and to confirm the absence of groundwater (e.g., groundwater elevations are at least 3 feet below the proposed BMP bottoms).

Because of the low in-situ infiltration measurements, especially at the stormwater depression area, the site is considered restricted. 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. Because of the low measured infiltration testing results and the presence of clay soils at the site, the engineer concurs that the site is restricted. Table 3 summarizes the volume abstraction for the site. The proposed project is in conformance with Rule J, Subsection 3.3.a.

Table 3. Volume Abstraction Summary

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
0.55	360	0.55	360

Based on the average measured infiltration rate of 0.06 in/hr and the footprint of the proposed stormwater depressions and rain garden (1,500 square feet), the stormwater facilities will draw down the 360 cubic feet in 48 hours as required by subsection 3.1.b.3. Pretreatment for runoff entering the stormwater facilities s provided by Rain Guardian Bunker and Turret structures, thus the proposed project conforms with RPBCWD Rule J, Subsection 3.1b.1.

The applicant must submit documentation verifying the infiltration capacity of the soils at the bottom of the proposed stormwater facilities prior to project close-out. If infiltration capacity is less than the design rate needed to conform with the volume abstraction requirement in subsection 3.3a, reanalysis and design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit). Similarly, if the infiltration testing during construction are greater than 0.2 inches per hour, the site would not be restricted, and project modification must be incorporated into the design to achieve the 1.1 inches of abstraction. In addition, the design drawings must be adjusted to ensure runoff filters through the tree trench media and doesn't by-pass to the catch basin proposed at the bottom of the tree trench to promote enhanced filtration in the tree trench and ensure abstraction/treatment.

The submitted hydrologic and hydraulic modeling of the proposed project conforms with Rule J, Subsection 3.3.a.

Water Quality Management

Because the site is restricted, compliance with the water-quality standards in subsection 3.1.c of Rule J is required. The Applicant must 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 a rain garden and tree trench to achieve the required TP and TSS removals. MIDS modeling results 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 applicant’s model shows 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) ¹
Total Suspended Solids (TSS)	135.8	122.2 (90%)	392.6 (>100%)
Total Phosphorus (TP)	0.75	0.45 (60%)	1.83 (>100%)

¹ Because the applicant is routing the regulated imperious area as well some additional undisturbed area (pervious and impervious surface) to the proposed stormwater depressions, tree trench, and rain garden, the proposed stormwater facility is anticipated to remove more than the required load reductions.

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)	1427.8	1035.2	-392.6
Total Phosphorus (TP)	7.53	5.7	-1.83

Low floor Elevation

Because the project does not involve the construction or reconstruction of any buildings, Rule J, subsection 3.6a does not impose requirements on the project. Stormwater management facilities must be constructed at an elevation and location that ensure no habitable structure will be brought into noncompliance with the low floor criteria according to Rule J, subsection 3.6b. Table 4 shows the low floor elevation of the existing structure (925.0 ft) is greater than the required 2 feet above 100-year event flood elevation of the rain garden (915.36). The RPBCWD Engineer concurs that the proposed project is in conformance with Rule J, Subsection 3.6b.

Table 4. Summary Low Floor Analysis

Stormwater Facility	Low Floor Elevation of Building (feet)	100-year Event Flood Elevation Stormwater Facility (feet)	Freeboard (feet)
Rain Garden	925.00	915.36	9.6

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. The proposed work will take place St. Hubert’s property under a cooperative agreement between RPBCWD and the school. The cooperative agreement calls for the development of a maintenance plan and recordation of a declaration post-construction. Under the agreement St. Hubert will record a maintenance declaration and be responsible for routine maintenance of the project, the proposed project conforms with Rule J, Section 3.7.

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 applicant is working with the RPBCWD to develop a management agreement.

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 of the permit contingent upon:

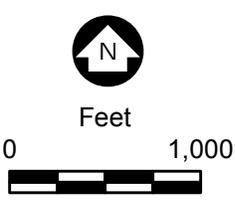
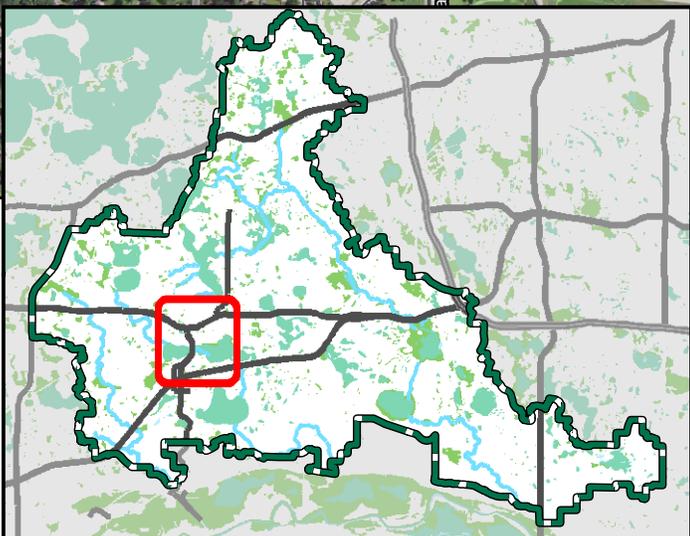
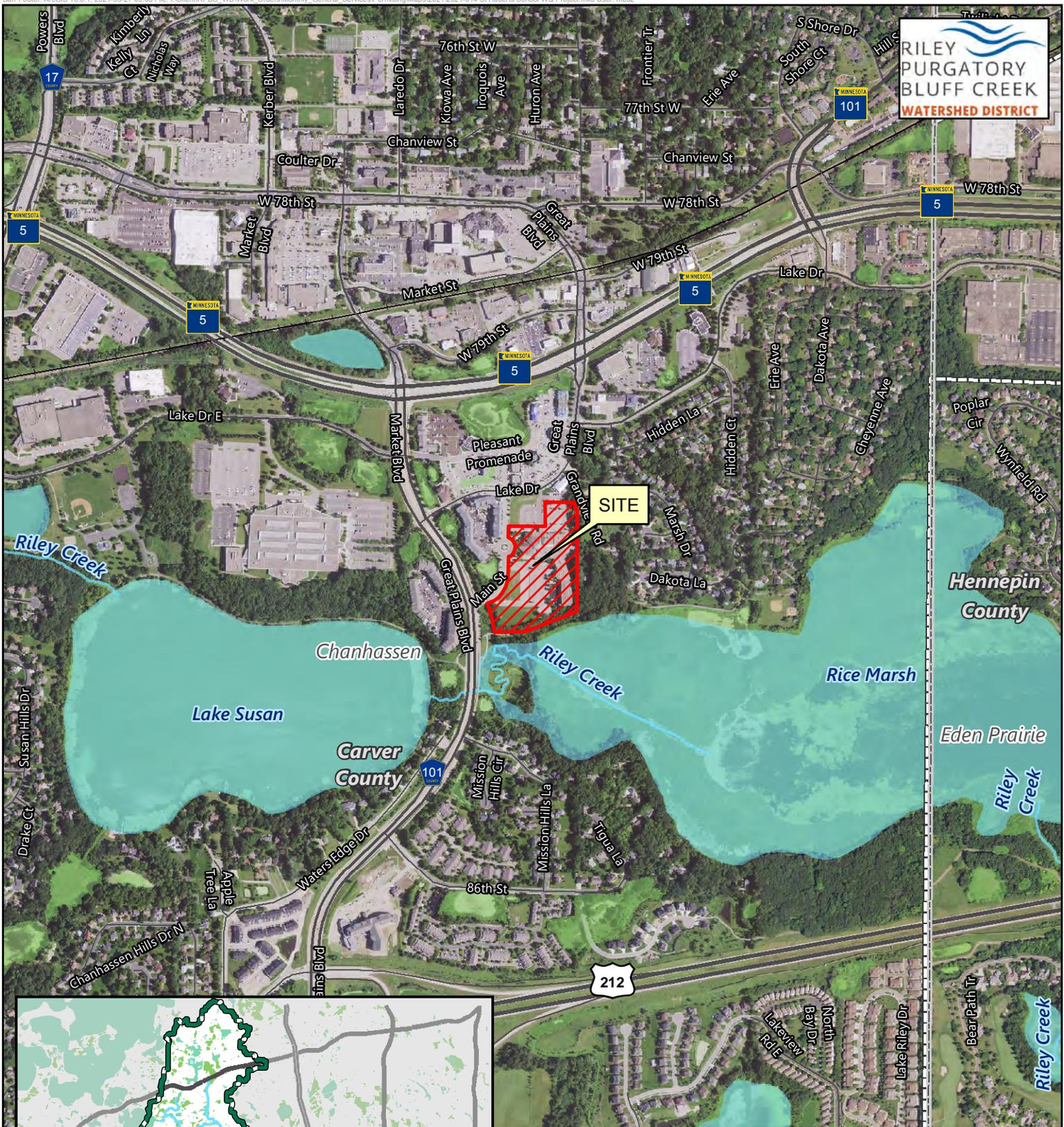
1. Continued compliance with General Requirements.
2. The applicant providing the name and contact information of the general contractor responsible for erosion and sediment control at the site.

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

1. 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, the pretreatment structures, stormwater depressions, rain garden, and tree trench 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;
2. Providing the following additional close-out materials:
 - a) Documentation that constructed stormwater 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
3. The work on the St. Hubert's Catholic School property under the terms of permit 2021-014, 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.

4. Per Rule J, Subsection 3.1.b.ii measured infiltration capacity of the soils at the bottom of the infiltration systems must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.3a, reanalysis and design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).
5. Permit applicant must adjust the design drawings to ensure runoff filters through the tree trench media and doesn't by-pass to the catch basin proposed at the bottom of the tree trench to promote enhanced filtration in the tree trench and ensure abstraction/treatment.
6. To close out the permit, 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.



Permit Location Map

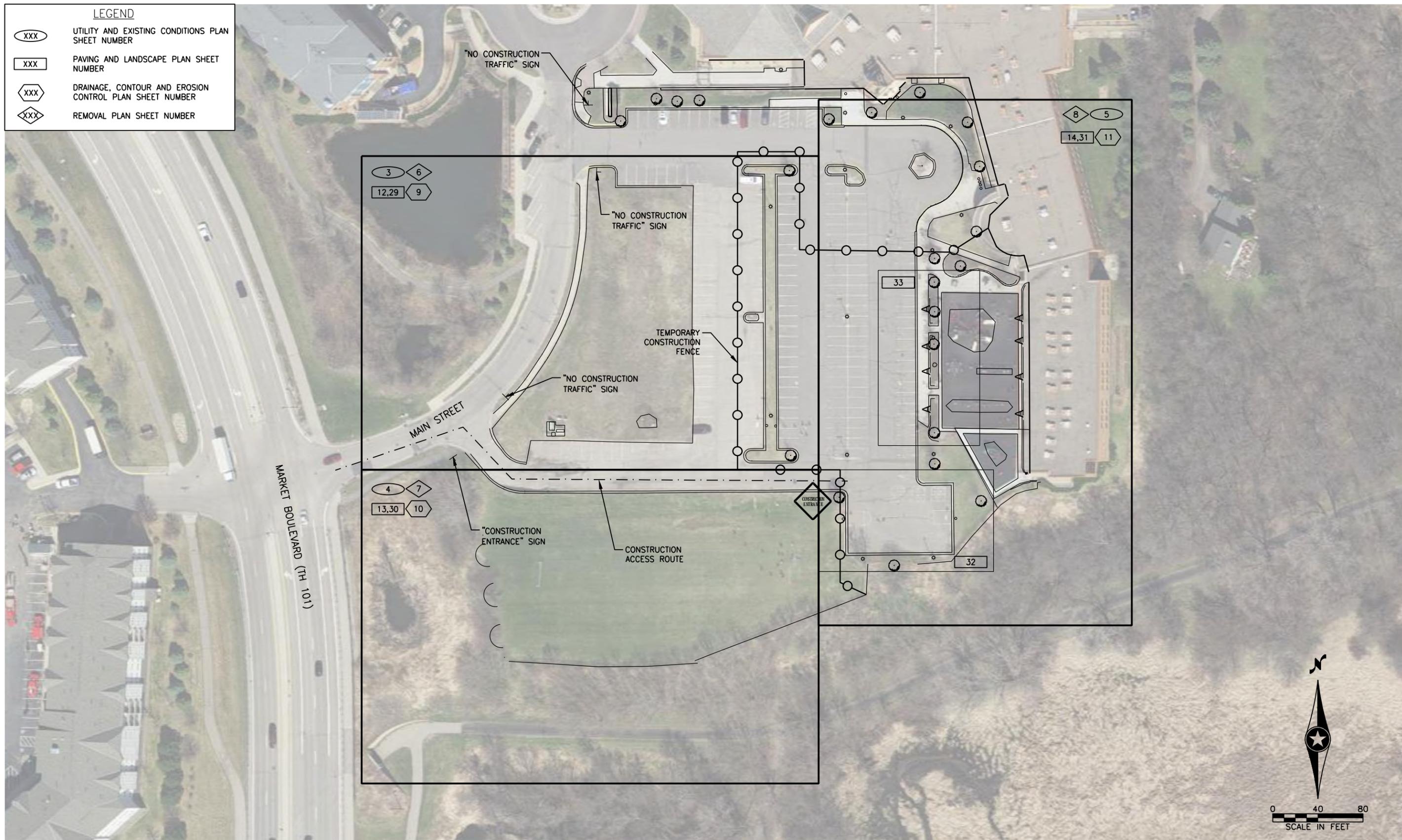
ST. HUBERT'S SCHOOL
WATER QUALITY PROJECT

Permit 2021-014

Riley Purgatory Bluff Creek
Watershed District

LEGEND

- XXX UTILITY AND EXISTING CONDITIONS PLAN SHEET NUMBER
- XXX PAVING AND LANDSCAPE PLAN SHEET NUMBER
- XXX DRAINAGE, CONTOUR AND EROSION CONTROL PLAN SHEET NUMBER
- XXX REMOVAL PLAN SHEET NUMBER



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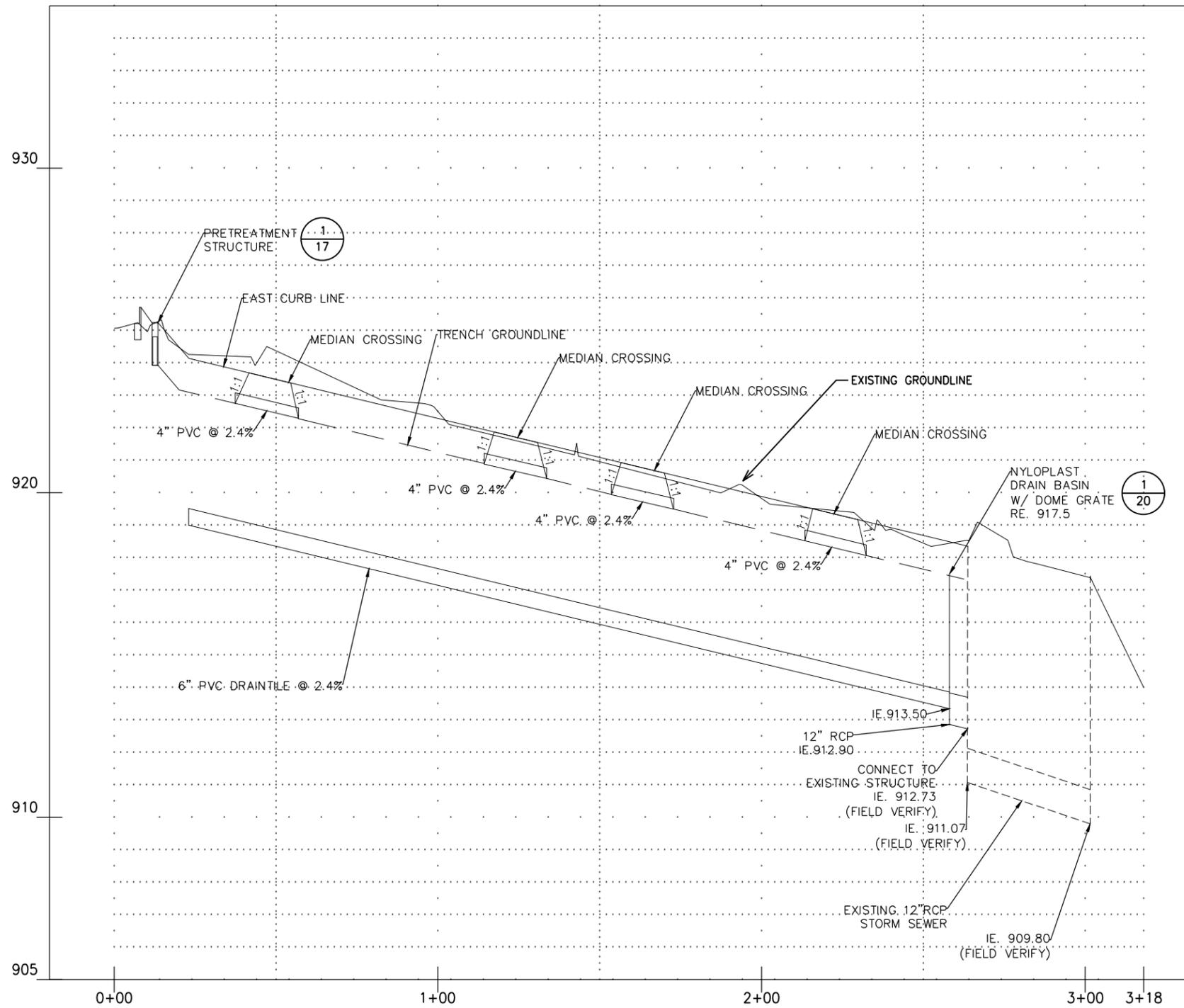
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: **LEAH GIFFORD**
Leah Gifford
 Date 4/13/2021 License # 52263

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 JPA
 DESIGNED BY
 JPA
 CHECKED BY
 LAG
 COMM. NO. 13385



ST HUBERT SCHOOL WATER QUALITY PROJECT
 GENERAL LAYOUT AND SITE SAFETY PLAN
 CHANHASSEN, MINNESOTA

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TREE TRENCH PROFILE

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NO	DATE	BY	CKD	APPR

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.
 Print Name: LEAH GIFFORD
Leah Gifford
 Date 4/13/2021 License # 52263

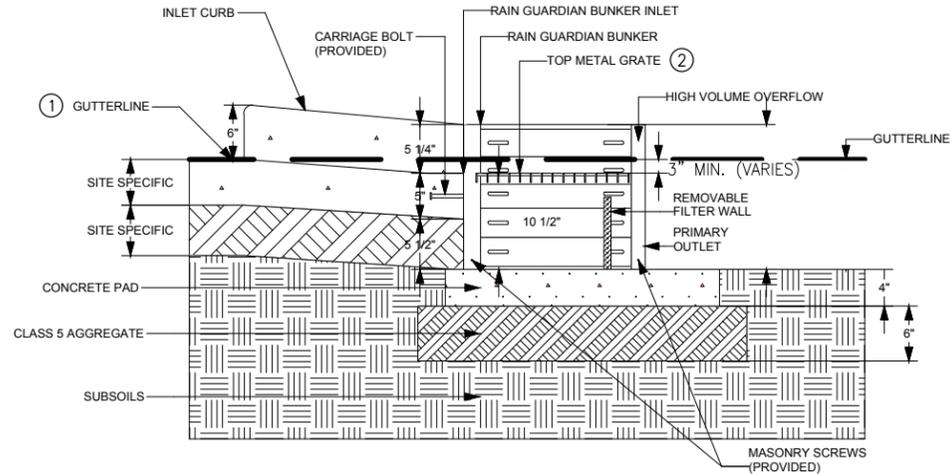
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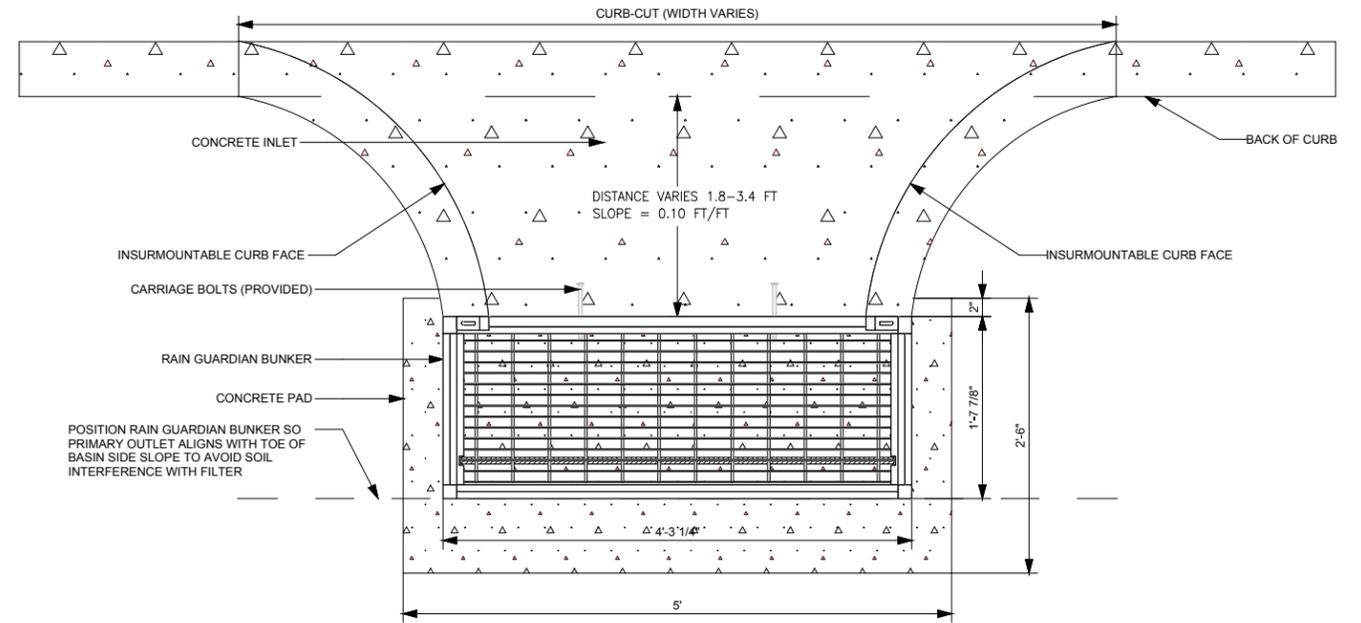
ST HUBERT SCHOOL WATER QUALITY PROJECT
 DRAINAGE PROFILE
 CHANHASSEN, MINNESOTA

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RAIN GUARDIAN BUNKER CROSS-SECTION VIEW
U.S. PATENT 8,501,016

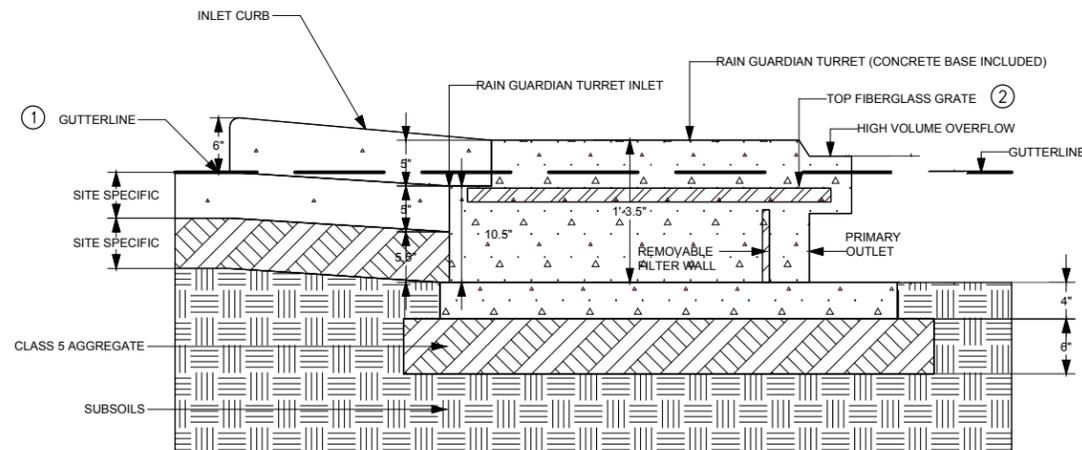


RAIN GUARDIAN BUNKER PLAN VIEW
U.S. PATENT 8,501,016

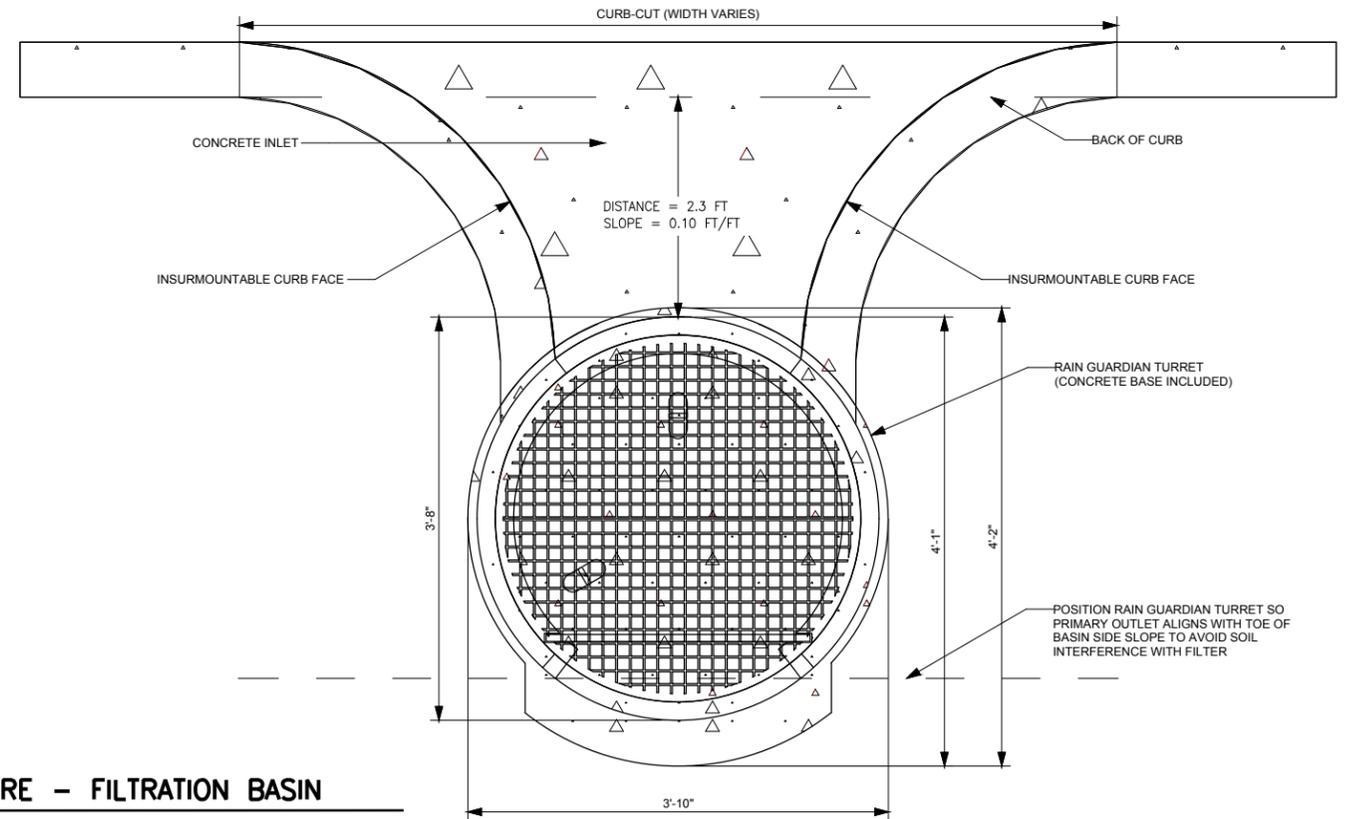


1 PRETREATMENT STRUCTURE - TREE TRENCH
NOT TO SCALE

RAIN GUARDIAN TURRET CROSS-SECTION VIEW
U.S. PATENT 8,501,016



RAIN GUARDIAN TURRET PLAN VIEW
U.S. PATENT 8,501,016



2 PRETREATMENT STRUCTURE - FILTRATION BASIN
NOT TO SCALE

NOTES:

- ① SEE DRAINAGE, CONTOUR, AND EROSION CONTROL PLANS FOR GUTTER ELEVATION.
- ② SEE DRAINAGE, CONTOUR, AND EROSION CONTROL PLANS FOR RIM ELEVATION (SAME AS TOP OF GRATE).

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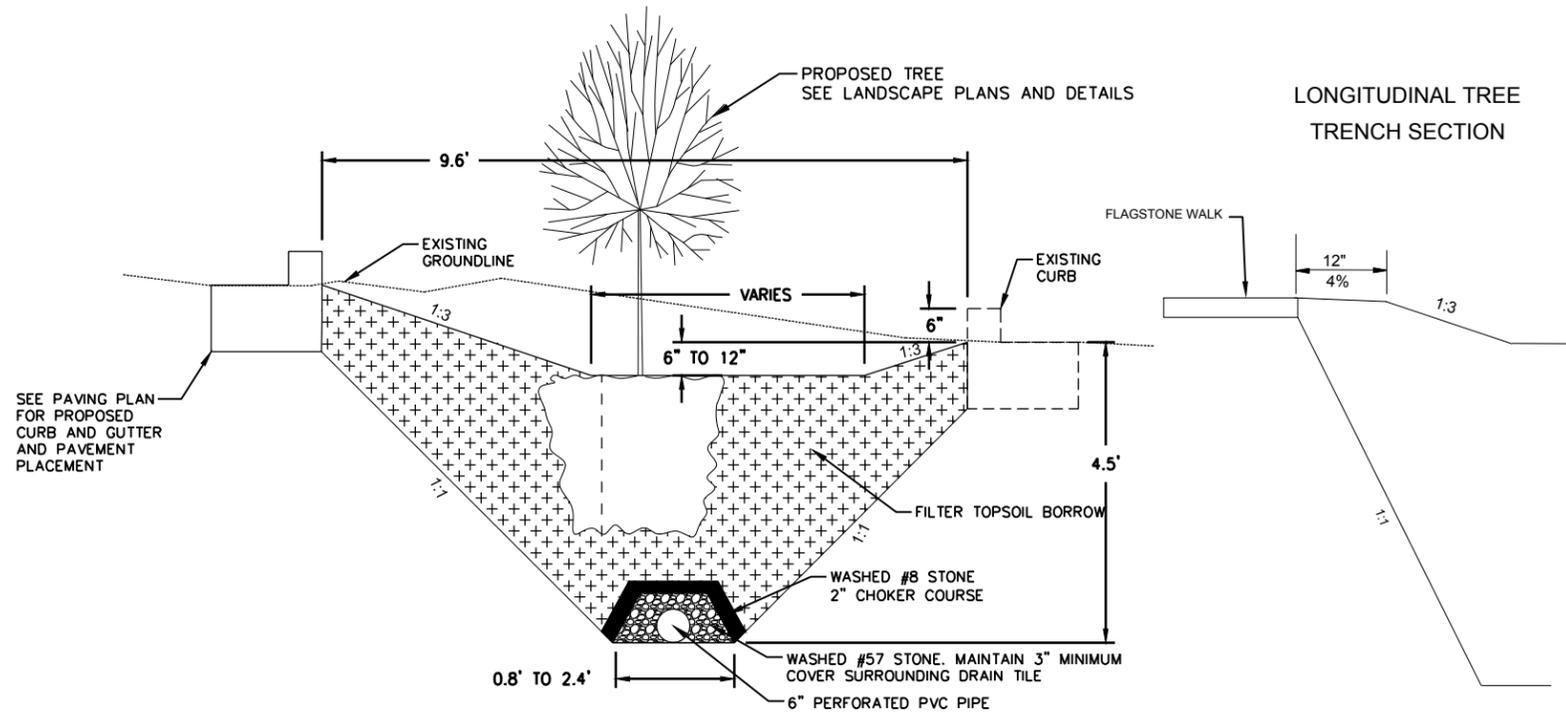
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
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Leah Gifford
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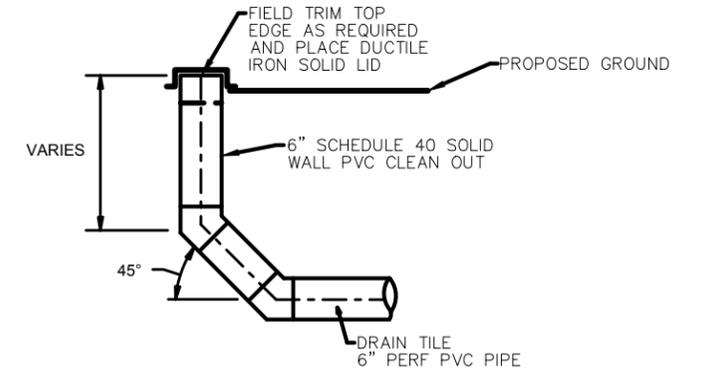


ST HUBERT SCHOOL WATER QUALITY PROJECT
 DRAINAGE DETAILS
 CHANHASSEN, MINNESOTA

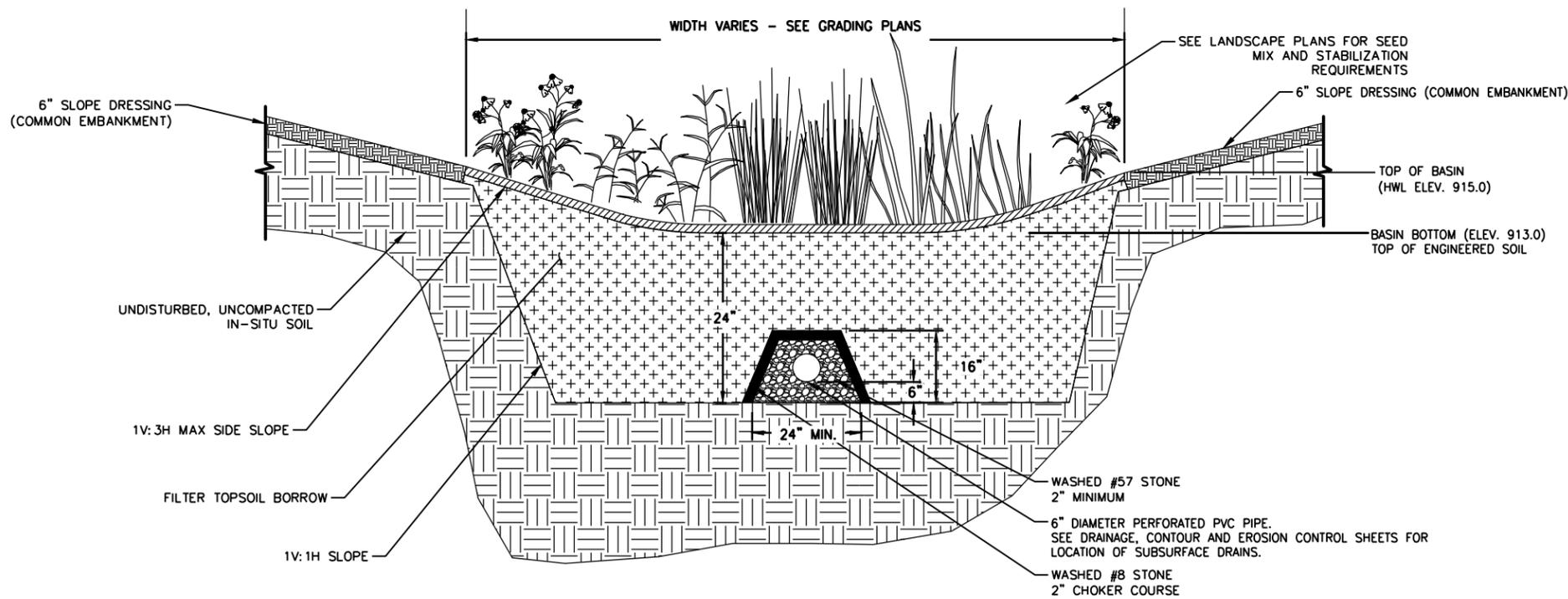
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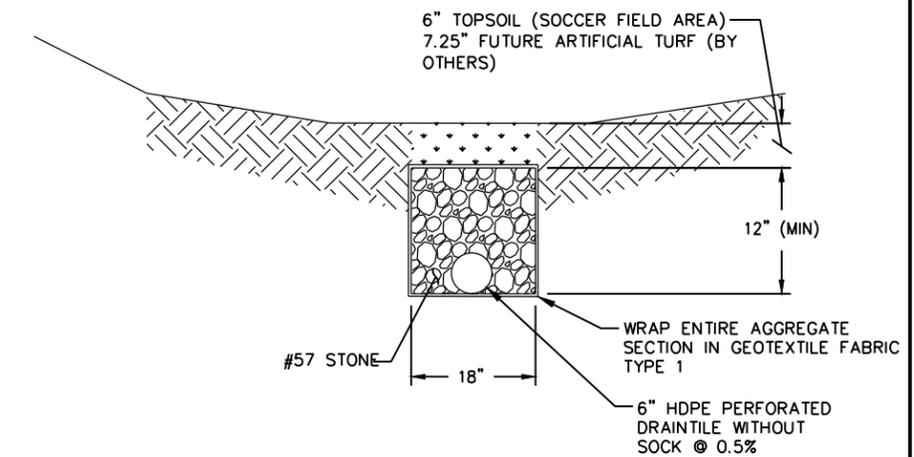
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2 DRAINTILE CLEAN OUT
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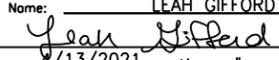
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4 TRENCH DRAIN DETAIL
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: LEAH GIFFORD

 Date 4/13/2021 License # 52263

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ST HUBERT SCHOOL WATER QUALITY PROJECT		SHEET
DRAINAGE DETAILS		18
CHANHASSEN, MINNESOTA		OF
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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 1 OF 4)

PROJECT DESCRIPTION, LOCATION AND SCOPE

SEE COVER SHEET FOR LOCATION MAP. PROJECT NUMBERS AND DESCRIPTION OF PROJECT SCOPE. PERMANENT STORMWATER BEST MANAGEMENT PRACTICES (BMPs) UTILIZED ON THE PROJECT INCLUDE TREE TRENCHES, RAIN GARDENS, PROPRIETARY STORMWATER TREATMENT DEVICES, AND VEGETATED SWALES.

SPECIAL AND IMPAIRED WATERS

THE FOLLOWING SPECIAL/IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE.
RICE MARSH LAKE IS IMPAIRED FOR NUTRIENTS AND HAS AN APPROVED TMDL AND IMPLEMENTATION PLAN. THE TMDL HAS NO REQUIREMENTS FOR CONSTRUCTION OR PERMANENT STORMWATER BMPs.

ENVIRONMENTALLY SENSITIVE AREAS

ALL ENVIRONMENTALLY SENSITIVE AREAS, INCLUDING WETLANDS, ARE LABELED AS "ENVIRONMENTALLY SENSITIVE AREAS" IN THE PLANS.

LONG TERM MAINTENANCE AND OPERATION

MAINTENANCE STAFF FROM ST. HUBERT SCHOOL CHURCH ARE RESPONSIBLE FOR THE LONG TERM MAINTENANCE AND OPERATION OF THE PERMANENT STORMWATER SYSTEMS.

SWPPP DEVELOPMENT AND MAINTENANCE

THIS SWPPP WAS PREPARED BY PERSONNEL WHO ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE AVAILABLE UPON REQUEST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFIED EROSION AND SEDIMENT CONTROL SUPERVISOR WHO SHALL BE RESPONSIBLE FOR FINALIZING, CERTIFYING, AND MAINTAINING THE SWPPP DOCUMENT AND OVERSEEING THE IMPLEMENTATION OF THE SWPPP. SEE PAGE 2 OF THE SWPPP NARRATIVE FOR ADDITIONAL REQUIREMENTS.

IN ADDITION, EACH CONTRACTOR OR SUBCONTRACTOR THAT PLACES EROSION OR SEDIMENT CONTROL DEVICES AS LISTED IN MNDOT SPECIFICATION 2573 SHALL PROVIDE AT LEAST ONE CERTIFIED INSTALLER AS INDICATED IN THE MNDOT SPECIFICATION.

THE SWPPP SHALL BE AMENDED WHEN:

- A. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASON HAVING A SIGNIFICANT EFFECT ON DISCHARGE OF POLLUTANTS.
- B. INSPECTIONS INDICATE THE SWPPP IS NOT EFFECTIVE.
- C. A WATER QUALITY STANDARD CHANGES AND THE MPCA DETERMINES THE SWPPP SHALL BE AMENDED TO COMPLY.

A DESCRIPTION OF ANY CHANGE TO THE SWPPP, ALONG WITH THE DATE AND NAME OF THE REVISION SHALL BE RECORDED AND INCLUDED WITH THE SWPPP AND RETAINED ON SITE. THE OWNER SHALL RETAIN ALL RECORDS AFTER COMPLETION OF THE PROJECT.

SITE PLANS

THE CONTRACTOR SHALL PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, DEWATERING AREAS, AREAS IDENTIFIED AS "SITE MANAGEMENT PLAN AREAS" AND AS REQUESTED BY THE PROJECT ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS IN WRITING AND ALLOW A MINIMUM OF 7 DAYS FOR REVIEW BY THE PROJECT ENGINEER. WORK SHALL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE PROJECT ENGINEER.

ENVIRONMENTAL REVIEW

THE REQUIREMENTS OF RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT AND THE CITY OF CHANHASSEN ARE SATISFIED BY THE PERMANENT BMPs LISTED ABOVE AND THE TEMPORARY MEASURES INCLUDED. THERE ARE NO ADDITIONAL STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHAEOLOGICAL OR AGENCY REVIEW.

DRINKING WATER SOURCE MANAGEMENT AREA (DWSMA), EMERGENCY RESPONSE AREA (ERA) AND KARST REGIONS

THE PROJECT IS NOT LOCATED IN A DWSMA, ERA OR KARST AREA.

SOIL TYPES

SOIL TYPES ENCOUNTERED IMMEDIATELY BENEATH THE TOPSOIL OR ROADWAY SECTIONS CAN PREDOMINANTLY BE CHARACTERIZED AS LOAM AND CLAY LOAM.

LAND FEATURE CHANGES

TOTAL DISTURBED AREA: 1.7 ACRES
TOTAL EXISTING IMPERVIOUS SURFACE AREA: 0.3 ACRES
TOTAL PROPOSED IMPERVIOUS SURFACE AREA: 0.5 ACRES
TOTAL PROPOSED NET CHANGE IN IMPERVIOUS SURFACE AREA: 0.2 ACRES

PROJECT CONTACTS

THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED.

ORGANIZATION	CONTACT NAME	PHONE
CITY OF CHANHASSEN	MATT UNMACHT	952-227-1168
MINNESOTA DEPARTMENT OF NATURAL RESOURCES	PETER LEETE	651-368-3634
MINNESOTA POLLUTION CONTROL AGENCY	AMY DALBECQ	651-234-7521
RILEY PURGATORY BLUFF CREEK WATERSHED DIST	TERRY JEFFERY	952-607-6512
SRF WATER RESOURCES	LEAH GIFFORD	763-475-0210

MPCA DUTY OFFICER 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451
800-422-0798

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, MNDOT SPEC BOOK (2018 EDITION), CONSTRUCTION DIARIES OR ON FILE WITH THE PROJECT OWNER. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET. IN ADDITION, THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER GENERAL PERMIT (NPDES PERMIT) SHOULD BE REVIEWED AND CONSULTED BY THE EROSION AND SEDIMENT CONTROL SUPERVISOR.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	LOCATION
TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND STAGING	SHEET NOS. 9 TO 11
PERMANENT EROSION AND SEDIMENT CONTROL MEASURES	SHEET NOS. 27 TO 33
DIRECTION OF FLOW	SHEET NOS. 9 TO 11
FINAL STABILIZATION	SHEET NOS. 27 TO 33
DRAINAGE STRUCTURES	SHEET NOS. 9 TO 11
STORM SEWER PROFILE SHEETS	SHEET NOS. 15
EROSION AND SEDIMENT CONTROL DETAILS	SHEET NOS. 37 TO 40

EXPECTED CONSTRUCTION IMPLEMENTATION SCHEDULE:

CONSTRUCTION BEGIN: 06/07/2021
SUBSTANTIAL COMPLETION (INCLUDING PLANTING): 08/18/2021
PLAYGROUND INSTALLATION (BY OTHERS): LATE AUGUST 2021
FINAL COMPLETION (AFTER 3-YEAR VEGETATION MAINTENANCE PERIOD): 10/15/2024

SITE MAPS AND DESIGN CALCULATIONS

IN ADDITION TO WHAT IS LOCATED WITHIN THIS PLAN, SITE MAPS AND BMP DESIGN CALCULATIONS ARE AVAILABLE UPON REQUEST. PLEASE CONTACT THE PROJECT ENGINEER WITH ANY QUESTIONS REGARDING THE SITE MAPS OR CALCULATIONS.

JACKIE ARNTSON | 4/14/2021 11:56:50 AM
C:\Users\jarn\Documents\Projects\13385\Design\Plansheets\FinalPlan\13385_SWPPP01.dwg: SWPPP-01

NO	DATE	BY	CHKD	APPR

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.
Print Name: LEAH GIFFORD
Leah Gifford
Date: 4/13/2021 License # 52263

DRAWN BY
JPA
DESIGNED BY
JPA
CHECKED BY
LAG
COMM. NO. 13385



ST HUBERT SCHOOL WATER QUALITY PROJECT
STORM WATER POLLUTION PREVENTION PLAN
CHANHASSEN, MINNESOTA

SHEET
23
OF
40

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 3 OF 4)

STABILIZATION AND SEDIMENT CONTROL NOTES

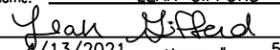
1. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL THE POTENTIAL FOR EROSION HAS BEEN ELIMINATED. IF SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE), ADDITIONAL UPGRADIENT OR REDUNDANT BMPs SHALL BE PLACED.
2. SEDIMENT CONTROL DEVICES SHALL BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. SEDIMENT CONTROL DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - A. PERIMETER CONTROL SHALL BE LOCATED ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. THE BMP SHALL BE J-HOOKED AT A MAXIMUM OF 100 FOOT INTERVALS AND EACH SECTION SHALL CONTAIN NO MORE THAN 1/4 ACRE OF DRAINAGE AREA.
 - B. SEDIMENT DAMAGE FROM STOCKPILES SHALL BE MINIMIZED BY PLACING A ROW OF SUPER DUTY SILT FENCE A MINIMUM 5 FEET FROM THE TOE. IF THERE IS NOT ADEQUATE PROJECT AREA TO PLACE THE SILT FENCE MORE THAN 5 FEET FROM THE TOE OF THE SLOPE, THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE TO THE PROJECT ENGINEER FOR APPROVAL.
 - C. DITCH CHECKS (IF REQUIRED) SHALL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
 1. TEMPORARY DITCH CHECKS (IF REQUIRED) SHALL CONSIST OF USING ROCK DITCH CHECKS, SEDIMENT CONTROL LOGS AND ROCK WEEPERS IN FRONT OF CULVERT INLETS. IN LIEU OF REMOVING TEMPORARY DITCH CHECKS, THE ROCK MAY BE PUSHED INTO THE GROUND.
 2. FILTER LOGS (IF REQUIRED) SHALL BE PLACED DURING PERMANENT TURF ESTABLISHMENT AT THE INTERVALS IDENTIFIED IN THE PLAN.
 - D. FLOTATION SILT CURTAIN MAY BE USED AS PERIMETER CONTROL BUT ONLY FOR WORK ON THE SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE CONSTRUCTION IN THE AREA IS COMPLETE, AN UPLAND BMP SHALL BE PLACED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.
 - E. TEMPORARY SEDIMENT BASINS ARE REQUIRED WHERE TEN OR MORE ACRES DRAIN TO A COMMON LOCATION (FIVE IF DRAINING TO A SPECIAL OR IMPAIRED WATER).
 1. BASIN VOLUME SHALL BE A MINIMUM OF 1,800 CUBIC FEET PER ACRE OF DRAINAGE AREA TO THE BASIN (3,600 CUBIC FEET PER ACRE IF NO CALCULATIONS ARE PERFORMED)
 2. OUTLET SHALL ALLOW COMPLETE DRAWDOWN FOR MAINTENANCE AND A STABILIZED OVERFLOW. THE OUTLET SHALL WITHDRAW WATER FROM THE SURFACE EXCEPT DURING FROZEN CONDITIONS. TEMPORARY POND OUTLETS OR TEMPORARY MODIFICATIONS TO PERMANENT POND OUTLETS TO COMPLY WITH NPDES PERMIT REQUIREMENTS FOR TEMPORARY SEDIMENT BASINS SHALL BE INCIDENTAL.
 3. IF A TEMPORARY BASIN OF THE REQUIRED SIZE IS INFEASIBLE THE REASONS SHALL BE DOCUMENTED IN THE SWPPP AND ALTERNATE BMPs SHALL BE PLACED.
3. PRESERVE A NATURAL BUFFER OF AT LEAST 50 FEET (100 FEET IF WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER) BETWEEN DISTURBED AREAS AND FLOWS TO A SURFACE WATER (NOT REQUIRED AT DITCHES OR STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS OR SEDIMENT BASINS). IF A BUFFER IS INFEASIBLE, PROVIDE AS LARGE A BUFFER AS POSSIBLE AND REDUNDANT SEDIMENT CONTROLS.
4. STORM SEWER INLETS SHALL BE PROTECTED AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS (THIS BMP SHALL BE ACCEPTED ONLY FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS). INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES SHALL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE KEPT IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES IT SHALL BE REPLACED WITH A SUITABLE ALTERNATIVE AT NO COST TO THE OWNER.

STABILIZATION AND SEDIMENT CONTROL NOTES (CONT.)

5. PAVEMENT SURFACES SHALL BE SWEEPED WITHIN 24 HOURS OF DISCOVERY OF SEDIMENT OR TRACKING ONTO PAVEMENT THAT DRAINS TO CURB, INLETS, DITCHES OR PONDS. PAVEMENT SHALL BE LIGHTLY WETTED PRIOR TO SWEEPING. THIS WORK IS INCIDENTAL.
6. OUTLETS INTO SURFACE WATERS SHALL BE STABILIZED WITH ENERGY DISSIPATION WITHIN 24 HOURS OF BEING CONSTRUCTED.
7. DITCHES AND EXPOSED SOILS SHALL BE KEPT IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES AND BLANKETS.
8. INITIATE STABILIZATION OF ALL EXPOSED SOIL AND STOCKPILE AREAS IMMEDIATELY AFTER CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN NO MORE THAN 14 DAYS (7 DAYS IF IT IS WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER). ALL EXPOSED SOIL WITHIN 200 LINEAL FEET OF AND DRAINING TO A PUBLIC WATER WITH "WORK IN WATER RESTRICTIONS" AND DURING SPECIFIED FISH SPAWNING TIME FRAMES, SHALL BE STABILIZED WITHIN 24 HOURS. IN MANY INSTANCES, THIS SHALL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING ROUGH GRADING. RAPID STABILIZATION METHOD 3 SHALL BE USED TO PROVIDE TEMPORARY COVER IN THESE AREAS AS APPROPRIATE. SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON. SEE NPDES PERMIT FOR EXCEPTIONS.
9. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, SHALL BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE OR POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZATION SHALL OCCUR WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER, EXISTING GUTTER, STORM SEWER INLET, DRAINAGE DITCH, OR OTHER STORMWATER CONVEYANCE SYSTEM ACCORDING TO SPEC 1717.2. RAPID STABILIZATION METHOD 4 SHALL BE USED TO STABILIZE THESE AREAS (SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON). THE REMAINDER OF THE DITCH SHALL BE STABILIZED WITHIN 14 DAYS (7 DAYS IF IT IS WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER) OF CONNECTING TO THE SURFACE WATER. PERMANENT EROSION CONTROL BLANKET OR RAPID STABILIZATION METHOD 4 (SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON) SHALL BE USED TO STABILIZE THESE AREAS AS INDICATED IN THE PLANS. IN LOCATIONS WHERE THE DITCH SLOPE IS LESS THAN 2 PERCENT, DISC ANCHORED MULCH AND HYDRAULIC SOIL STABILIZERS MAY BE USED FOR DITCH BOTTOM STABILIZATION AS INDICATED IN THE PLANS OR WITH THE APPROVAL OF THE ENGINEER.
10. ALL EXPOSED SOIL AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED SHALL BE SNOW MULCHED, SEEDED, OR BLANKETED WITHIN THE TIME FRAMES LISTED IN THE NPDES PERMIT.
11. ALL TOPSOIL BERMS SHALL BE STABILIZED AS FOLLOWS:
 - A. BETWEEN APRIL 1 - AUGUST 31, SEED WITH SEED MIXTURE 21-111
 - B. BETWEEN SEPTEMBER 1 AND MARCH 31, SEED WITH SEED MIXTURE 21-112 AND TOP WITH RAPID STABILIZATION 2.
12. TILLING FOR BEDS OR TREE HOLES SHALL BE PLANTED AND MULCHED WITH WOODCHIP WITHIN 7 DAYS OR STRAW MULCHED UNTIL PLANTING OPERATIONS CAN BE COMPLETED. FILTER LOGS SHALL BE PLACED, AS NEEDED, TO TRAP SEDIMENT ON THE LOWER EDGE OF BEDS OR TREE HOLES. FILTER LOGS SHALL BE LEFT TO PHOTO DEGRADE.

JACKIE ARNTSON | 4/14/2021 11:56:50 AM
 2295 - (415) (COO) | 13385 - Design - Minnesota Water Pollution Control District - 2019 - SWPPP-03
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NO	DATE	BY	CHKD	APPR

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.
 Print Name: LEAH GIFFORD

 Date: 4/13/2021 License # 52263

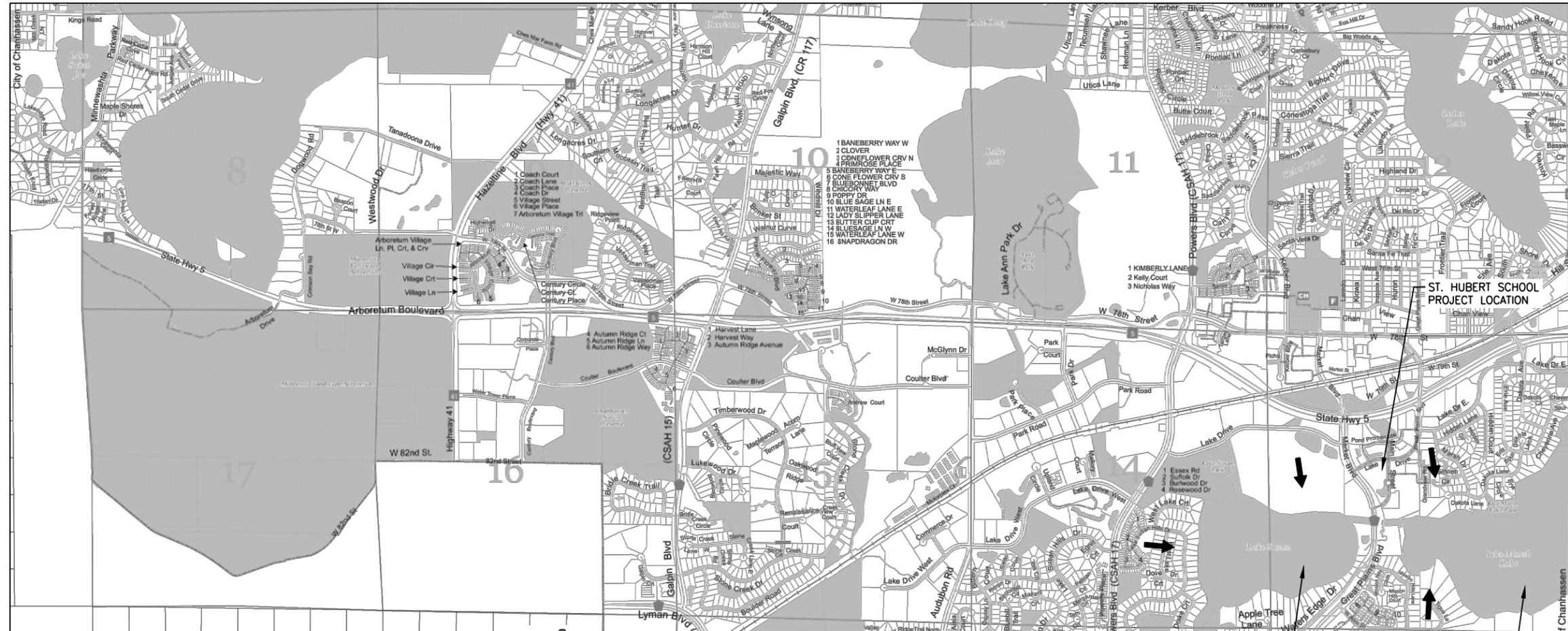
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JPA
 DESIGNED BY
JPA
 CHECKED BY
LAG
 COMM. NO. 13385



ST HUBERT SCHOOL WATER QUALITY PROJECT
 STORM WATER POLLUTION PREVENTION PLAN
 CHANHASSEN, MINNESOTA

SHEET
25
OF
40

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 4 OF 4)



LAKE SUSAN
(IMPAIRED FOR NUTRIENTS AND
MERCURY IN FISH TISSUE)

RICE MARSH LAKE
(IMPAIRED FOR NUTRIENTS)



JACKIE ARNTSON | 4/14/2021 11:56:50 AM
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NO	DATE	BY	CKD	APPR

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.
Print Name: LEAH GIFFORD
Leah Gifford
Date 4/13/2021 License # 52263

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JPA
DESIGNED BY
JPA
CHECKED BY
LAG
COMM. NO. 13385



ST HUBERT SCHOOL WATER QUALITY PROJECT
STORM WATER POLLUTION PREVENTION PLAN
CHANHASSEN, MINNESOTA

SHEET
26
OF
40



May 27, 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 four months ending April 30, 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 that reads "Mark C. Gibbs".

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 April 30, 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 script.

St. Paul, Minnesota
May 27, 2021

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Treasurers Report

April 30, 2021

REPORT INDEX

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

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Cash Disbursements

April 30, 2021

Accounts Payable:

Check #	Payee	Amount
5579	Abdo, Eick & Meyers, LLC	\$500.00
5580	Barr Engineering	93,217.88
5581	B9 Polar Waters, LLC	1,790.88
5582	CenterPoint Energy	146.37
5583	City of Chanhassen	43.47
5584	Coverall of the Twin Cities	316.76
5585	Jill S. Crafton	1,452.44
5586	Freshwater Society	4,550.00
5587	HDR Engineering, Inc.	931.26
5588	HealthPartners	6,917.08
5589	Amy Herbert	1,335.00
5590	Olivia R. Holstine	264.55
5591	Houston Engineering, Inc.	10,750.00
5592	Iron Mountain	162.57
5593	Metro Sales, Inc.	565.94
5594	PLM Lake & Land Management	7,598.19
5595	Principal Life Insurance Company	404.01
5596	ProTech	236.57
5597	Purchase Power	134.66
5598	Redpath & Company	2,213.29
5599	Smith Partners	18,377.77
5600	Southwest News Media	1,168.64
5601	Stantec Consulting Service	1,425.60
5602	Xcel Energy	481.76
Total Accounts Payable:		\$154,984.69

Payroll Disbursements:

Payroll Processing Fee	196.50
Employee Salaries	32,854.80
Employer Payroll Taxes	3,118.65
Employer Benefits (H.S.A. Match)	600.00
Employee Benefit Deductions	(516.04)
Staff Expense Reimbursements	1,469.01
PERA Match	2,392.43
Total Payroll Disbursements:	\$40,115.35
VISA - 4/17/21	4,254.79
Total:	\$4,254.79

TOTAL DISBURSEMENTS:

\$199,354.83

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
April 30, 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	-	-	0.00%
Permit Fees	25,000.00	-	25,000.00	12,200.00	26,600.00	106.40%
Grant Income	272,580.00	-	272,580.00	-	-	0.00%
Investment Income	30,000.00	-	30,000.00	203.59	384.83	1.28%
Miscellaneous Income	-	-	-	-	2.99	---
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	\$12,403.59	\$28,987.82	0.38%
EXPENDITURES						
Administration						
Audit	\$15,000.00	-	\$15,000.00	500.00	\$11,500.00	76.67%
Accounting (and Audit)	\$31,000.00	-	31,000.00	2,409.79	15,417.18	49.73%
Advisory Committees	7,000.00	-	7,000.00	-	-	0.00%
Insurance and bonds	18,000.00	-	18,000.00	-	414.00	2.30%
Engineering Services	112,000.00	-	112,000.00	7,920.50	46,123.50	41.18%
Legal Services	84,000.00	-	84,000.00	4,467.00	34,091.54	40.59%
Manager Per Diem/Expense	30,000.00	-	30,000.00	1,993.88	7,293.88	24.31%
Dues and Publications	16,000.00	-	16,000.00	-	9,006.00	56.29%
Office Cost	190,000.00	-	190,000.00	7,017.67	42,726.16	22.49%
Permit Review and Inspection	140,000.00	-	140,000.00	22,007.80	53,300.80	38.07%
Permit and Grant Database	-	-	-	10,750.00	10,750.00	---
Professional Services	10,000.00	-	10,000.00	-	12,335.50	123.36%
Recording Services	15,000.00	-	15,000.00	1,335.00	5,565.00	37.10%
Staff Cost	802,054.00	-	802,054.00	34,438.65	177,653.39	22.15%
Subtotal	\$1,470,054.00	-	\$1,470,054.00	\$92,840.29	\$426,176.95	28.99%
Programs and Projects						
District Wide						
10-year Management Plan	\$10,000.00	-	\$10,000.00	\$386.80	\$3,249.60	32.50%
AIS Inspection and early response	85,000.00	-	85,000.00	7,941.64	9,575.16	11.26%
Cost-Share/Stewardship Grant	346,735.00	-	346,735.00	3,878.38	31,866.86	9.19%
Data Collection and Monitoring	193,000.00	-	193,000.00	15,304.63	93,546.51	48.47%
Community Resiliency	111,058.00	-	111,058.00	828.00	6,991.50	6.30%
Education and Outreach	100,834.00	-	100,834.00	327.58	8,277.38	8.21%
Plant Restoration - U of M	61,613.00	-	61,613.00	-	9,474.60	15.38%
Repair and Maintenance Fund *	212,540.00	-	212,540.00	-	170.00	0.08%
Wetland Management*	111,248.00	-	111,248.00	17,404.50	65,482.84	58.86%
Groundwater Conservation*	229,444.00	-	229,444.00	-	450.00	0.20%
Lake Vegetation Implementation	83,083.00	-	83,083.00	5,975.60	8,265.88	9.95%
Opportunity Project*	317,480.00	-	317,480.00	-	-	0.00%
Stormwater Ponds - U of M	67,164.00	-	67,164.00	-	-	0.00%
Hennepin County Chloride Initiative	92,971.00	-	92,971.00	-	-	0.00%
Lower Minnesota Chloride Cost-Share	217,209.00	-	217,209.00	-	-	0.00%
Subtotal	\$2,239,379.00	-	\$2,239,379.00	\$52,047.13	\$237,350.33	10.60%
Bluff Creek						
Bluff Creek Tributary*	\$7,251.00	-	\$7,251.00	-	-	0.00%
Wetland Restoration at Pioneer	\$665,285.00	-	665,285.00	13,499.98	47,272.95	7.11%
Bluff Creek B5 by Galpin	140,000.00	-	140,000.00	-	-	0.00%
Subtotal	\$812,536.00	-	812,536.00	\$13,499.98	\$47,272.95	5.82%
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	2,174.90	2,413.90	5.29%
Rice Marsh Lake Water Quality Improvement Phase 1	634,147.00	-	634,147.00	10,574.30	20,025.30	3.16%
Riley Creek Restoration (Reach E and D3)	107,047.00	-	107,047.00	2,363.17	2,950.17	2.76%
Upper Riley Creek Stabilization	902,025.00	-	902,025.00	8,521.88	25,922.56	2.87%
Middle Riley Creek	192,363.00	-	192,363.00	8,742.00	51,878.00	26.97%
Lake Ann Wetland Restoration	50,000.00	-	50,000.00	-	-	0.00%
St. Hubert Water Quality Project	147,063.00	-	147,063.00	6,305.24	56,082.66	38.14%
Subtotal	\$2,141,166.00	\$0.00	2,141,166.00	\$38,681.49	\$159,272.59	7.44%
Purgatory Creek						
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	\$34,899.00	-	\$34,899.00	-	\$4,634.75	13.28%
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	1,809.94	36,478.30	17.60%
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	476.00	4,376.00	13.62%
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	\$2,285.94	\$48,472.05	6.78%
Reserve	\$180,000.00	\$0.00	180,000.00	-	-	0.00%
TOTAL EXPENDITURE	\$7,558,007.00	\$0.00	\$7,558,007.00	\$199,354.83	\$918,544.87	12.15%
EXCESS REVENUES OVER (UNDER) EXPENDITURES	\$0.00	\$0.00	\$0.00	(\$186,951.24)	(\$889,557.05)	

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

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Muti-Year Project Performance Analysis - Table 2
April 30, 2021

Programs and Projects	Total	FUNDING SOURCE			Current	Costs	Costs	Total Costs	District's Share	District's Share
	Lifetime Budget	District funds	Partner Fund	Grants	Year Budget	Month End	Year-to-Date	to Date	Current Year	Future Years
District Wide										
Community Resiliency	\$148,000.00	\$98,000.00	-	50,000.00	\$111,058.00	\$828.00	\$6,991.50	\$68,932.57	\$75,000.00	60,000.00
Repair and Maintenance Fund	277,005.00	277,005.00	-	-	212,540.00	-	170.00	89,635.08	-	20,000.00
Wetland Management	200,000.00	200,000.00	-	-	111,248.00	17,404.50	65,482.84	179,234.72	-	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	-	-	58,927.97	20,000.00	-
Hennepin County Chloride Initiative	120,800.00	19,000.00	-	101,800.00	92,971.00	-	-	27,829.77	-	-
Lower Minnesota Chloride Cost-Share	217,209.00	20,000.00	-	197,209.00	217,209.00	-	-	-	-	-
Subtotal	\$1,549,106.00	\$1,158,097.00	\$42,000.00	\$349,009.00	\$1,359,114.00	\$18,232.50	\$73,094.34	\$451,731.25	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	13,499.98	47,272.95	689,810.11	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	13,499.98	\$47,272.95	\$1,081,308.80	\$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	2,174.90	2,413.90	106,778.55	-	170,000.00
Rice Marsh WQ 1	300,000.00	300,000.00	-	-	634,147.00	10,574.30	20,025.30	35,877.80	350,000.00	-
Riley Creek Restoration (Reach E and D3) *	2,168,148.00	1,615,000.00	553,148.00	-	107,046.00	2,363.17	2,950.17	2,230,807.20	40,000.00	-
Upper Riley Creek Stabilization	950,000.00	950,000.00	-	-	902,025.00	8,521.88	25,922.56	73,897.08	100,000.00	-
Middle Riley Creek	45,000.00	-	45,000.00	-	192,363.00	8,742.00	51,878.00	51,878.00	-	-
St Hubert	178,865.00	-	65,000.00	113,865.00	147,063.00	6,305.24	56,082.66	56,082.66	100,000.00	-
Subtotal	\$4,352,013.00	\$3,575,000.00	\$663,148.00	\$113,865.00	\$2,091,165.00	\$38,681.49	\$159,272.59	\$3,067,435.86	\$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	-	\$4,634.75	\$19,736.03	-	-
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	1,809.94	36,478.30	97,283.49	-	-
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	476.00	4,376.00	192,255.01	-	-
Subtotal	\$1,293,013.00	\$1,178,013.00	\$65,000.00	\$50,000.00	\$465,492.00	\$2,285.94	\$48,472.05	\$914,603.44	\$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	\$72,699.91	\$328,111.93	\$5,515,079.35	\$1,395,000.00	\$1,578,000.00

Riley Purgatory Bluff Creek Watershed District
Balance Sheet
As of April 30, 2021

ASSETS

Current Assets

General Checking-Old National	\$1,996,561.75
Checking-Old National/BMW	23,256.03
Investments-Standing Cash	3,286,987.11
Investments-Wells Fargo	747,338.64
Accrued Investment Interest	7.50
Due From Other Governments	146,580.00
Taxes Receivable-Delinquent	36,003.36
Pre-Paid Expense	31,914.23
Security Deposits	7,244.00

Total Current Assets: \$6,275,892.62

LIABILITIES AND CAPITAL

Current Liabilities

Accounts Payable	\$340,818.13
Retainage Payable	27,616.74
Withholding Taxes	63.03
Permits & Sureties Payable	679,189.25
Deferred Revenue	36,003.36
Unearned Revenue	181,331.00

Total Current Liabilities: \$1,265,021.51

Capital

Fund Balance-General	\$5,900,428.16
Net Income	(889,557.05)

Total Capital \$5,010,871.11

Total Liabilities & Capital \$6,275,892.62

RILEY PURGTORY BLUFF CREEK WATERSHED DISTRICT
 OLD NATIONAL BANK VISA ACTIVITY
 April 30, 2021

DATE	PURCHASED FROM	AMOUNT	DESCRIPTION	ACCOUNT #	RECEIPT
	NO CREDIT CARD TRANSACTIONS				
	NO CREDIT CARD TRANSACTIONS				
		\$0.00	District-Wide Total		
		\$0.00	GRAND TOTAL		

Annual Financial Report

Riley Purgatory Bluff Creek Watershed District
Chanhasen, Minnesota

For the Year Ended
December 31, 2020

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Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Annual Financial Report
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 For the Year Ended December 31, 2020

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INTRODUCTORY SECTION
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

FOR THE YEAR ENDED
DECEMBER 31, 2020

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Riley Purgatory Bluff Creek Watershed District
Chanhasen, Minnesota
Board of Managers and Appointed Officials
For the Year Ended December 31, 2020

BOARD OF MANAGERS

<u>Name</u>	<u>Title</u>	<u>Term Expires</u>
Dick Ward	President	07/01/23
Dorothy Pedersen	Vice President	07/01/23
Jill Crafton	Treasurer	07/01/21
David Ziegler	Secretary	07/01/22
Larry Koch	Manager	07/01/21

APPOINTED OFFICIALS

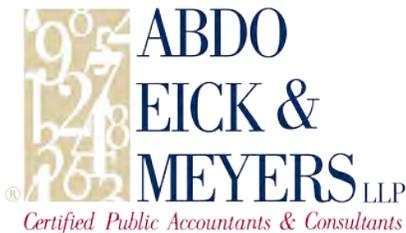
Claire Bleser	District Administrator
Smith Partners PLLP	District Council
Barr Engineering	District Engineer

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FINANCIAL SECTION
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

FOR THE YEAR ENDED
DECEMBER 31, 2020

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INDEPENDENT AUDITOR'S REPORT

Board of Managers
Riley Purgatory Bluff Creek Watershed District
Chanhasen, Minnesota

Report on the Financial Statements

We have audited the accompanying financial statements of the governmental activities and major fund of the Riley Purgatory Bluff Creek Watershed District, Minnesota (the District), as of and for the year ended December 31, 2020, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the District's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities and major fund of the District as of December 31, 2020 and the respective changes in financial position and the budgetary comparison for the 509 Plan Implementation fund for the year then ended in accordance with accounting principles generally accepted in the United States of America.

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Other Matters

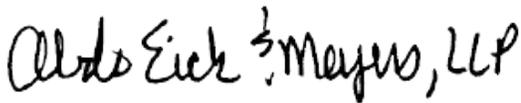
Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis starting on page 15 and the Schedules of Employer's Share of the Net Pension Liability and the Schedules of Employer's Contributions, the related note disclosures, starting on page 50 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the District's basic financial statements. The introductory section is presented for purposes of additional analysis and are not a required part of the basic financial statement.

The introductory section has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.



ABDO, EICK & MEYERS, LLP
Minneapolis, Minnesota
May 26, 2021

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Management's Discussion and Analysis

As management of the Riley Purgatory Bluff Creek Watershed District (the District), Chanhassen, Minnesota, we offer readers of the District's financial statements this narrative overview and analysis of the financial activities of the District for the fiscal year ended December 31, 2020. We encourage readers to consider the information presented here in conjunction with the financial statements, which follow this section.

Financial Highlights

- The assets and deferred outflows of resources of the District exceeded its liabilities and deferred inflows of resources at the close of the most recent fiscal year by \$6,382,684 (net position). Of this amount, \$5,644,109 (unrestricted net position) may be used to meet the District's ongoing obligations.
- The District's total net position decreased by \$464,679, which is mostly due to project, program and general government costs exceeding current year levy and partnership revenues during the year. The District has been building reserves for payment of current and future projects.
- As of the close of the current fiscal year, the District's governmental fund reported ending fund balances of \$5,926,225, a decrease of \$407,373 in comparison with the prior year.
- The ending 509 Plan Implementation fund balance is \$5,926,225, which is made up of nonspendable (\$39,158), assigned (\$214,180), and (\$5,672,887) committed fund balance. The total fund balance is 161.0 percent of the 2021 budgeted expenditures.

Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the District’s basic financial statements. The District’s basic financial statements are comprised of three components: 1) government-wide financial statements, 2) fund financial statements, and 3) notes to the financial statements. This report also contains other required supplemental information in addition to the basic financial statements themselves.

The financial statements also include notes that explain some of the information in the financial statements and provide more detailed data. The statements are followed by a section of combining and individual fund financial statements and schedules that further explains and supports the information in the financial statements. Figure 1 shows how the required parts of this annual report are arranged and relate to one another.

**Figure 1
Required Components of the
District’s Annual Financial Report**

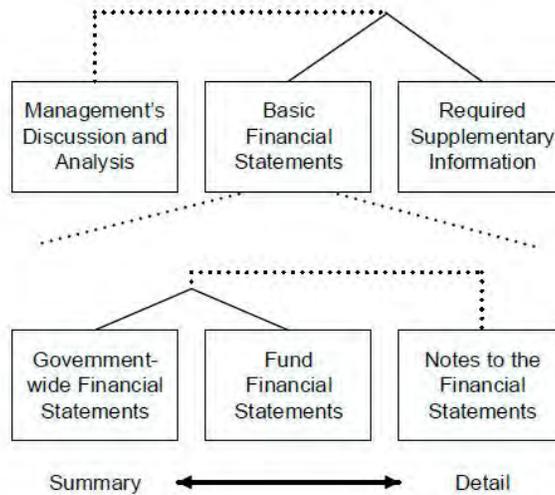


Figure 2 summarizes the major features of the District’s financial statements, including the portion of the District they cover and the types of information they contain. The remainder of this overview section of management’s discussion and analysis explains the structure and contents of each of the statements.

**Figure 2
Major Features of the Government-wide and Fund Financial Statements**

	Fund Financial Statements	
	Government-wide Statements	Governmental Funds
Scope	Entire District	The activities of the District
Required financial statements	<ul style="list-style-type: none"> Statement of Net Position Statement of Activities 	<ul style="list-style-type: none"> Balance Sheet Statement of Revenues, Expenditures, and Changes in Fund Balances
Accounting Basis and measurement focus	Accrual accounting and economic resources focus	Modified accrual accounting and current financial resources focus
Type of asset/liability information	All assets and liabilities, both financial and capital, and short-term and long-term	Only assets expected to be used up and liabilities that come due during the year or soon thereafter; no capital assets included
Type of deferred outflows/inflows of resources information	All deferred outflows/inflows of resources, regardless of when cash is received or paid	Only deferred outflows of resources expected to be used up and deferred inflows of resources that come due during the year or soon thereafter; no capital assets included
Type of inflow/out flow information	All revenues and expenses during year, regardless of when cash is received or paid	Revenues for which cash is received during or soon after the end of the year; expenditures when goods or services have been received and payment is due during the year or soon thereafter

Government-wide Financial Statements. The government-wide financial statements are designed to provide readers with a broad overview of the District's finances, in a manner similar to a private-sector business.

The *statement of net position* presents information on all of the District's assets, deferred outflows of resources, liabilities and deferred inflows of resources, with the difference between them reported as *net position*. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the District is improving or deteriorating.

The *statement of activities* presents information showing how the District's net position changed during the most recent fiscal year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, *regardless of the timing of related cash flows*. Thus, revenues and expenses are reported in this statement for some items that will only result in cash flows in future fiscal periods (e.g., grants and earned but unused vacation and sick leave).

The governmental activities of the District include general government and program costs. The government-wide financial statements start on page 24 of this report.

Fund Financial Statements. A *fund* is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The District, like other state and local governments, uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements. The District currently maintains one governmental fund.

Governmental Funds. *Governmental funds* are used to account for essentially the same functions reported as *governmental activities* in the government-wide financial statements. However, unlike the government-wide financial statements, governmental fund financial statements focus on *near-term inflows and outflows of spendable resources*, as well as on *balances of spendable resources* available at the end of the fiscal year. Such information may be useful in evaluating a government's near-term financing requirements.

Because the focus of governmental funds is narrower than that of the government-wide financial statements, it is useful to compare the information presented for *governmental funds* with similar information presented for *governmental activities* in the government-wide financial statements. By doing so, readers may better understand the long-term impact by the government's near-term financing decisions. Both the governmental fund balance sheets and the governmental fund statements of revenues, expenditures and changes in fund balances provide a reconciliation to facilitate this comparison between *governmental funds* and *governmental activities*.

The District adopts an annual appropriated budget for its 509 Plan Implementation fund. A budgetary comparison statement has been provided for the 509 Plan Implementation fund to demonstrate compliance with this budget.

The basic governmental fund financial statements start on page 28 of this report.

Notes to the Financial Statements. The notes provide additional information that is essential to a full understanding of the data provided in the government-wide and fund financial statements. The notes to the financial statements start on page 33 of this report.

Required Supplementary Information. This report also presents certain required supplementary information concerning the progress in funding its obligation to provide pension to its employees. Required supplementary information can be found starting on page 50 of this report.

Government-wide Financial Analysis

As noted earlier, net position may serve over time as a useful indicator of a government's financial position. In the case of the District, assets and deferred outflows of resources exceeded liabilities and deferred inflows of resources by \$6,382,684 at the close of the most recent fiscal year.

The largest portion, 88.4 percent (\$5,644,109) of the District's net position are unrestricted and available to meet the ongoing needs of the District. 11.6 percent or \$738,575 reflects its net investment in capital assets (e.g., land, land improvements, and permanent easements).

Riley Purgatory Bluff Creek Watershed District's Summary of Net Position

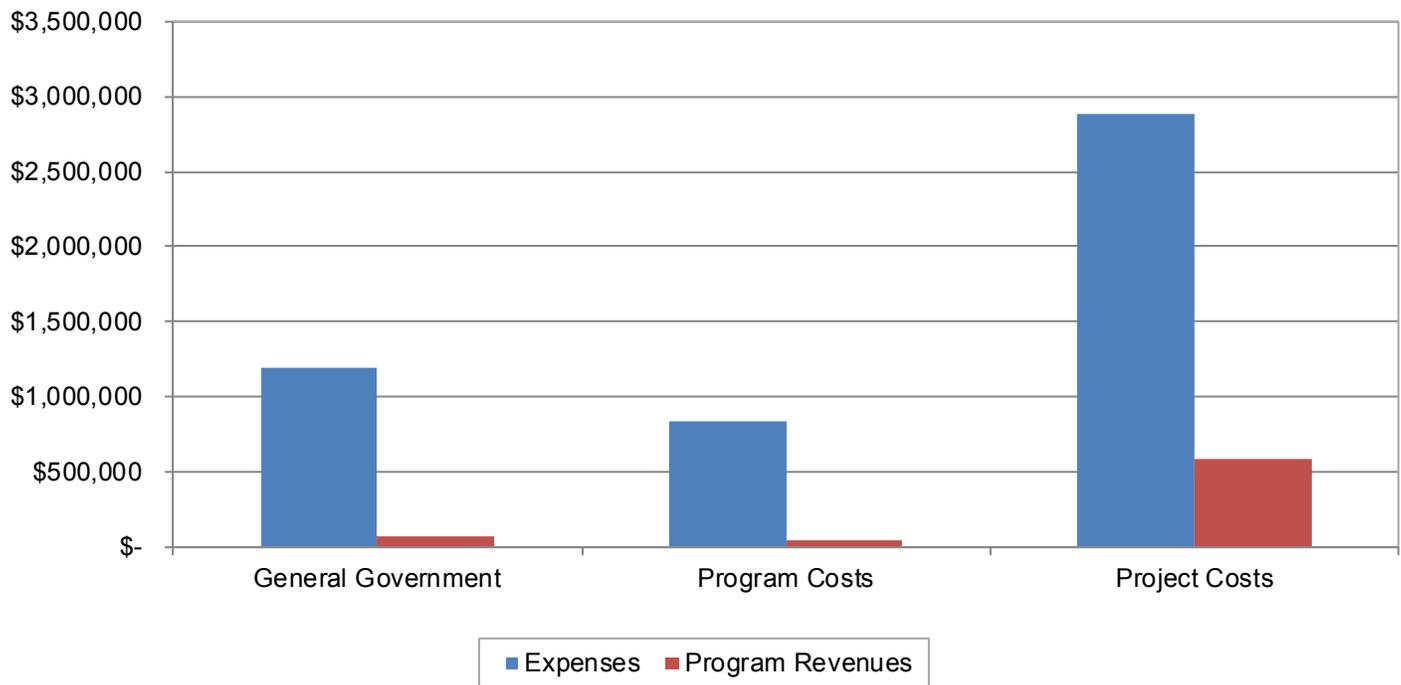
	December 31,		Increase (Decrease)
	2020	2019	
Assets			
Current	\$ 7,155,303	\$ 8,180,041	\$ (1,024,738)
Capital assets, net	738,575	768,521	(29,946)
Total Assets	<u>7,893,878</u>	<u>8,948,562</u>	<u>(1,054,684)</u>
Deferred Outflows of Resources			
Pension resources	<u>112,406</u>	<u>120,605</u>	<u>(8,199)</u>
Liabilities			
Current	1,194,286	1,810,440	(616,154)
Noncurrent	410,703	352,499	58,204
Total Liabilities	<u>1,604,989</u>	<u>2,162,939</u>	<u>(557,950)</u>
Deferred Outflows of Resources			
Pension resources	<u>18,611</u>	<u>58,865</u>	<u>(40,254)</u>
Net Position			
Investment in capital assets	738,575	768,521	(29,946)
Unrestricted	<u>5,644,109</u>	<u>6,078,842</u>	<u>(434,733)</u>
Total Net Position	<u>\$ 6,382,684</u>	<u>\$ 6,847,363</u>	<u>\$ (464,679)</u>

Governmental Activities. Governmental activities decreased the District's net position by \$464,679, which was mostly due to project, program and general government expense exceeding revenues during the year.

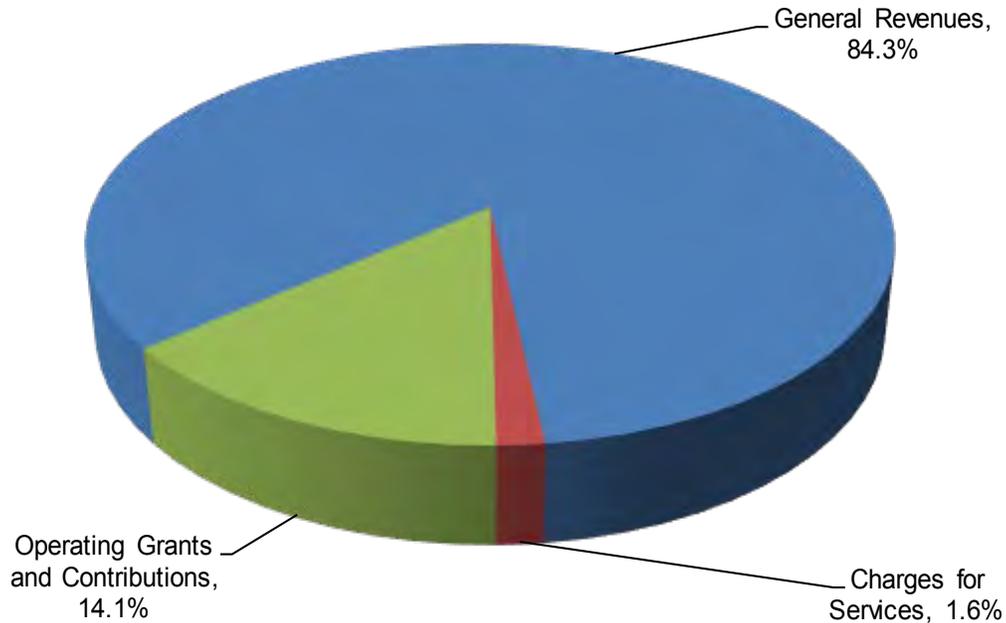
Riley Purgatory Bluff Creek Watershed District's Changes in Net Position

	December 31,		Increase (Decrease)
	2020	2019	
Revenues			
Program			
Charges for services	\$ 71,640	\$ 44,344	\$ 27,296
Operating grants and contributions	626,479	169,285	457,194
Capital grants and contribution	-	295,950	(295,950)
General			
Property taxes	3,702,672	3,588,077	114,595
Unrestricted investment earnings	29,900	109,652	(79,752)
Gants and contributions not restricted to specific programs	15,867	5,299	10,568
Total Revenues	<u>4,446,558</u>	<u>4,212,607</u>	<u>233,951</u>
Expenses			
General government	1,193,300	1,200,266	(6,966)
Program costs	834,979	625,572	209,407
Project costs	2,882,958	710,935	2,172,023
Total Expenses	<u>4,911,237</u>	<u>2,536,773</u>	<u>2,374,464</u>
Change in Net Position	(464,679)	1,675,834	(2,140,513)
Net Position, January 1	<u>6,847,363</u>	<u>5,171,529</u>	<u>1,675,834</u>
Net Position, December 31	<u>\$ 6,382,684</u>	<u>\$ 6,847,363</u>	<u>\$ (464,679)</u>

The following graph depicts various governmental activities and shows the revenue and expenses directly related to those activities.



Revenues by Source - Governmental Activities



Financial Analysis of the Government's Funds

As noted earlier, the District uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements.

Governmental Funds. The focus of the District's *governmental funds* is to provide information on near-term inflows, outflows and balances of *spendable* resources. Such information is useful in assessing the District's financing requirements. In particular, *unreserved fund balance* may serve as a useful measure of a government's net resources available for spending at the end of the fiscal year.

As of the end of the current fiscal year, the District's governmental fund reported ending fund balances of \$5,926,225, a decrease of \$407,373 in comparison with the prior year. The total fund balance is split between three designations. 1) Nonspendable (\$39,158) for prepaid items 2) Assigned (\$214,180) for 509 plan implementation, and 3) Committed (\$5,672,887) for 509 plan implementation.

The 509 Plan Implementation fund is the chief operating fund of the District. At the end of the current year, the fund balance of the 509 Plan Implementation fund was \$5,926,225. As a measure of the 509 Plan Implementation fund's liquidity, it may be useful to compare total fund balance to total fund expenditures. Total fund balance represents 122.1 percent of 2020 actual expenditures. The 509 Implementation fund balance decreased by \$407,373 during the current fiscal year.

Budgetary Highlights

The District's 509 Plan Implementation budget was not amended during the year. The actual revenues results were more favorable than those projected by the 2020 budget. Revenues were over budget by \$643,801. The largest variance was in partner funds which was over budget by \$550,498. Expenditures were over budget by \$1,151,174. The largest variance was related to project costs which were over budget by \$1,467,958, which is due the timing of the Riley Creek project which was part of a past levy.

Capital Assets

The District's investment in capital assets for its governmental activities as of December 31, 2020 amounts to \$738,575 (net of accumulated depreciation). This investment in capital assets includes land, easements, infrastructure, and land improvements.

Riley Purgatory Bluff Creek Watershed District's Capital Assets (Net of Depreciation)

	December 31,		Increase (Decrease)
	2020	2019	
Land	\$ 627,043	\$ 627,043	\$ -
Equipment, Boats and Vehicles	92,518	119,007	(26,489)
Intangibles	19,014	22,471	(3,457)
Total	<u>\$ 738,575</u>	<u>\$ 768,521</u>	<u>\$ (29,946)</u>

Additional information on the District's capital assets can be found in Note 3B on page 42 of this report.

Economic Factors and Next Year's Budgets

In 2020, the Watershed District levied remained in line with the proposed budget as outlined in the 2018 10-Year Watershed Management Plan. Even though this was a 2.7% increase from the previous year, the District's Budget increased by 19% due to project being carried over from previous years.

Requests for Information

This financial report is designed to provide a general overview of the District's finances for all those with an interest in the District's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to Riley Purgatory Bluff Creek Watershed District, 18681 Lake Drive East, Chanhassen, MN 55317.

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GOVERNMENT-WIDE FINANCIAL STATEMENTS
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

FOR THE YEAR ENDED
DECEMBER 31, 2020

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Statement of Net Position
 December 31, 2020

	Governmental Activities
Assets	
Cash and temporary investments	\$ 6,572,169
Receivables	
Accounts	6,712
Accrued interest	8
Taxes	63,376
Due from other governments	473,880
Prepaid items	39,158
Capital assets	
Nondepreciable assets	627,043
Depreciable assets, net of accumulated depreciation	111,532
Total Assets	7,893,878
Deferred Outflows of Resources	
Deferred pension resources	112,406
Liabilities	
Accounts payable	272,177
Accrued salaries payable	23,348
Due to other governments	56,425
Deposits payable	659,183
Unearned revenue	183,153
Noncurrent liabilities	
Due within one year	
Compensated absences payable	31,068
Due in more than one year	
Compensated absences payable	19,908
Net pension liability	359,727
Total Liabilities	1,604,989
Deferred Inflows of Resources	
Deferred pension resources	18,611
Net Position	
Investment in capital assets	738,575
Unrestricted	5,644,109
Total Net Position	\$ 6,382,684

The notes to the financial statements are an integral part of this statement.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Statement of Activities
 For the Year Ended December 31, 2020

Functions/Programs	Expenses	Program Revenues			Net (Expense) Revenue and Changes in Net Position
		Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions	Governmental Activities
Governmental Activities					
General government	\$ 1,193,300	\$ 71,640	\$ 3,200	\$ -	\$ (1,118,460)
Program costs	834,979	-	41,417	-	(793,562)
Project costs	2,882,958	-	581,862	-	(2,301,096)
Total	\$ 4,911,237	\$ 71,640	\$ 626,479	\$ -	(4,213,118)
General Revenues					
Property taxes					3,702,672
Unrestricted investment earnings					29,900
Other revenues					15,867
Total General Revenues					<u>3,748,439</u>
Change in Net Position					(464,679)
Net Position, January 1					<u>6,847,363</u>
Net Position, December 31					<u>\$ 6,382,684</u>

The notes to the financial statements are an integral part of this statement.

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FUND FINANCIAL STATEMENTS
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

FOR THE YEAR ENDED
DECEMBER 31, 2020

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Balance Sheet
 Governmental Funds
 December 31, 2020

	<u>509 Plan Implementation</u>
Assets	
Cash and temporary investments	\$ 6,572,169
Receivables	
Accounts	6,712
Accrued interest	8
Taxes	63,376
Due from other governments	473,880
Prepaid items	<u>39,158</u>
Total Assets	<u><u>\$ 7,155,303</u></u>
Liabilities	
Accounts payable	\$ 272,177
Accrued salaries payable	23,348
Due to other governments	56,425
Deposits payable	659,183
Unearned revenue	<u>183,153</u>
Total Liabilities	<u>1,194,286</u>
Deferred Inflows of Resources	
Unavailable revenue - taxes	<u>34,792</u>
Fund Balances	
Nonspendable - prepaid items	39,158
Committed for planning and implementation	5,672,887
Assigned for 509 plan implementation	<u>214,180</u>
Total Fund Balances	<u>5,926,225</u>
Total Liabilities, Deferred Inflows of Resources and Fund Balance	<u><u>\$ 7,155,303</u></u>

The notes to the financial statements are an integral part of this statement.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Reconciliation of the Balance Sheet
 to the Statement of Net Position
 Governmental Funds
 December 31, 2020

Amounts reported for the governmental activities in the statement of net position are different because

Total Fund Balances - Governmental	\$ 5,926,225
Capital assets used in governmental activities are not financial resources and therefore are not reported as assets in governmental funds.	
Cost of capital assets	872,467
Less accumulated depreciation	(133,892)
Noncurrent liabilities, including bonds payable, are not due and payable in the current period and therefore are not reported as liabilities in the funds.	
Noncurrent liabilities at year-end consist of	
Compensated absences payable	(50,976)
Net pension liability	(359,727)
Some receivables are not available soon enough to pay for the current period's expenditures and therefore are unavailable in the funds.	
Taxes receivable	34,792
Governmental funds do not report long-term amounts related to pensions.	
Deferred outflows of pension resources	112,406
Deferred inflows of pension resources	(18,611)
Total Net Position - Governmental Activities	\$ 6,382,684

The notes to the financial statements are an integral part of this statement.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Statement of Revenues, Expenditures and Changes in Fund Balances
 Governmental Funds
 For the Year Ended December 31, 2020

	<u>509 Plan Implementation</u>
Revenues	
Property taxes	\$ 3,703,883
Permit income	71,640
Partner funds	550,498
Intergovernmental	76,051
Interest on investments	29,900
Miscellaneous	14,829
Total Revenues	<u>4,446,801</u>
Expenditures	
Current	
General government	1,158,632
Programs	796,558
Project	2,882,958
Capital outlay	
Programs	16,026
Total Expenditures	<u>4,854,174</u>
Net Change in Fund Balances	(407,373)
Fund Balances, January 1	<u>6,333,598</u>
Fund Balances, December 31	<u><u>\$ 5,926,225</u></u>

The notes to the financial statements are an integral part of this statement.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Reconciliation of the Statement of
 Revenues, Expenditures and Changes in Fund Balances
 to the Statement of Activities
 Governmental Funds
 For the Year Ended December 31, 2020

Amounts reported for governmental activities in the statement of activities are different because

Total Net Change in Fund Balances - Governmental Funds	\$ (407,373)
<p>Capital outlays are reported in governmental funds as expenditures. However in the statement of activities, the cost of those assets is allocated over the estimated useful lives as depreciation expense.</p>	
Depreciation expense	(29,946)
<p>Certain revenues are recognized as soon as they are earned. Under the modified accrual basis of accounting, certain revenues cannot be recognized until they are available to liquidate liabilities of the current period.</p>	
Property taxes	(1,211)
<p>Long-term pension activity is not reported in governmental funds.</p>	
Pension expense	(24,557)
Pension revenue	968
<p>Some expenses reported in the statement of activities do not require the use of current financial resources and, therefore, are not reported as expenditures in governmental funds.</p>	
Compensated absences payable	<u>(2,560)</u>
Change in Net Position - Governmental Activities	<u><u>\$ (464,679)</u></u>

The notes to the financial statements are an integral part of this statement.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Statement of Revenues, Expenditures and Changes in Fund Balances -
 Budget and Actual
 509 Plan Implementation Fund
 For the Year Ended December 31, 2020

	Budgeted Amounts		Actual Amounts	Variance with Final Budget
	Original	Final		
Revenues				
Property taxes	\$ 3,703,000	\$ 3,703,000	3,703,883	\$ 883
Permit Income	25,000	25,000	71,640	46,640
Partner funds	-	-	550,498	550,498
Intergovernmental	-	-	76,051	76,051
Interest on investments	75,000	75,000	29,900	(45,100)
Miscellaneous	-	-	14,829	14,829
Total Revenues	<u>3,803,000</u>	<u>3,803,000</u>	<u>4,446,801</u>	<u>643,801</u>
Expenditures				
Current				
General government	1,196,000	1,196,000	1,158,632	37,368
Programs	1,092,000	1,092,000	796,558	295,442
Projects				
Bluff creek	-	-	152,967	(152,967)
Riley creek	1,275,000	1,275,000	2,456,890	(1,181,890)
Purgatory creek	140,000	140,000	273,101	(133,101)
Capital outlay				
Programs	-	-	16,026	(16,026)
Total Expenditures	<u>3,703,000</u>	<u>3,703,000</u>	<u>4,854,174</u>	<u>(1,151,174)</u>
Net Change in Fund Balances	100,000	100,000	(407,373)	(507,373)
Fund Balances, January 1	<u>6,333,598</u>	<u>6,333,598</u>	<u>6,333,598</u>	<u>-</u>
Fund Balances, December 31	<u>\$ 6,433,598</u>	<u>\$ 6,433,598</u>	<u>\$ 5,926,225</u>	<u>\$ (507,373)</u>

The notes to the financial statements are an integral part of this statement.

Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 1: Summary of Significant Accounting Policies

A. Reporting Entity

The Riley Purgatory Bluff Creek Watershed District (the District), Chanhassen, Minnesota was originally created in 1969 by the Minnesota Water Resources Board acting under the authority of the Watershed Law. The District is operated by a five-member Board of Managers originally appointed by the Board.

The District has considered all potential units for which it is financially accountable, and other organizations for which the nature and significance of their relationship with the District are such that exclusion would cause the District's financial statements to be misleading or incomplete. The Governmental Accounting Standards Board (GASB) has set forth criteria to be considered in determining financial accountability. These criteria include appointing a voting majority of an organization's governing body, and (1) the ability of the primary government to impose its will on that organization or (2) the potential for the organization to provide specific benefits to, or impose specific financial burdens on the primary government. The District has no component units that meet the GASB criteria.

B. Government-wide and Fund Financial Statements

The government-wide financial statements (i.e., the statement of net position and the statement activities) report information on all of the non-fiduciary activities of the District. For the most part, the effect of interfund activity has been removed from these statements.

The statement of activities demonstrates the degree to which the direct expenses of a given function or segment is offset by program revenues. *Direct expenses* are those that are clearly identifiable with a specific function or segment. Amounts reported as *program revenues* include 1) charges to customers or applicants who purchase, use, or directly benefit from goods, services, or privileges provided by a given function or segment and 2) grants and contributions that are restricted to meeting the operational or capital requirements of a particular function or segment. Other items not properly included among program revenues are reported instead as *general revenues*.

Separate financial statements are provided for the major governmental fund. The major individual governmental fund is reported as separate a column in the fund financial statements.

Riley Purgatory Bluff Creek Watershed District
Chanhausen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 1: Summary of Significant Accounting Policies (Continued)

C. Measurement Focus, Basis of Accounting and Basis of Presentation

The government-wide financial statements are reported using the *economic resources measurement focus* and the *accrual basis of accounting*. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Grants and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met.

Governmental fund financial statements are reported using the *current financial resources measurement focus* and the *modified accrual basis of accounting*. Revenues are recognized as soon as they are both measurable and available. Revenues are considered to be *available* when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the District considers revenues to be available if they are collected within 60 days of the end of the current fiscal period. Expenditures generally are recorded when a liability is incurred, as under accrual accounting. However, debt service expenditures, as well as expenditures related to compensated absences and claims and judgments, are recorded only when payment is due.

Charges for service, assessments to members, grants and interest associated with the current fiscal period are all considered susceptible to accrual and so have been recognized as revenues of the current fiscal period. All other revenue items are considered to be measurable and available only when cash is received by the organization.

Revenue resulting from exchange transactions, in which each party gives and receives essentially equal value, is recorded on the accrual basis when the exchange takes place. On a modified accrual basis, revenue is recorded in the year in which the resources are measurable and become available.

Non-exchange transactions, in which the District receives value without directly giving equal value in return, include grants, entitlement and donations. Eligibility requirements include timing requirements, which specify the year when the resources are required to be used or the year when use is first permitted, matching requirements, in which the District must provide local resources to be used for a specified purpose, and expenditure requirements, in which the resources are provided to the District on a reimbursement basis. On a modified accrual basis, revenue from non-exchange transactions must also be available before it can be recognized.

Unearned revenue arises when assets are recognized before revenue recognition criteria have been satisfied. Grants and entitlements received before eligibility requirements are met are also recorded as unearned revenue.

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

The District reports the following major governmental funds:

The *509 Plan Implementation Fund* - Notwithstanding chapter 103D, a local government unit or watershed management organization may levy a tax to pay the increased costs of preparing a plan under sections 103B.231 and 103B.235 or for projects identified in an approved and adopted plan necessary to implement the purposes of section 103B.20 1. The proceeds of any tax levied under this section shall be deposited in a separate fund and expended only for the purposes authorized by this section. Watershed management organizations and local government units may accumulate the proceeds of levies as an alternative to issuing bonds to finance improvements.

As a general rule the effect of interfund activity has been eliminated from government-wide financial statements.

Riley Purgatory Bluff Creek Watershed District
Chanhausen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 1: Summary of Significant Accounting Policies (Continued)

D. Assets, Deferred Outflows of Resources, liabilities, Deferred Inflows of Resources, and Net Position/Fund Balance

Deposits and Investments

The District's cash and temporary investments are considered to be cash on hand, demand deposits and short term investments with original maturities of three months or less from the date of acquisition.

Cash balances from all funds are pooled and invested, to the extent available, in certificates of deposit and other authorized investments. Earnings from such investments are allocated on the basis of applicable participation by each of the funds.

The District may also invest idle funds as authorized by Minnesota statutes, as follows:

1. Direct obligations or obligations guaranteed by the United States or its agencies.
2. Shares of investment companies registered under the Federal Investment Company Act of 1940 and received the highest credit rating, rated in one of the two highest rating categories by a statistical rating agency, and have a final maturity of thirteen months or less.
3. General obligations of a state or local government with taxing powers rated "A" or better; revenue obligations rated "AA" or better.
4. General obligations of the Minnesota Housing Finance Agency rated "A" or better.
5. Obligation of a school district with an original maturity not exceeding 13 months and (i) rated in the highest category by a national bond rating service or (ii) enrolled in the credit enhancement program pursuant to statute section 126C.55.
6. Bankers' acceptances of United States banks eligible for purchase by the Federal Reserve System.
7. Commercial paper issued by United States banks corporations or their Canadian subsidiaries, of highest quality category by at least two nationally recognized rating agencies, and maturing in 270 days or less.
8. Repurchase or reverse repurchase agreements and securities lending agreements with financial institutions qualified as a "depository" by the government entity, with banks that are members of the Federal Reserve System with capitalization exceeding \$10,000,000, a primary reporting dealer in U.S. government securities to the Federal Reserve Bank of New York, or certain Minnesota securities broker-dealers.
9. Guaranteed Investment Contracts (GIC's) issued or guaranteed by a United States commercial bank, a domestic branch of a foreign bank, a United States insurance company, or its Canadian subsidiary, whose similar debt obligations were rated in one of the top two rating categories by a nationally recognized rating agency.

The broker money market accounts operate in accordance with appropriate state laws and regulations. The reported value of the pools is the same as the fair value of the pool shares. The District does not have a formal investment policy.

The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. The District's recurring fair value measurements are listed in detail on page 41 and are valued using quoted market prices.

Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 1: Summary of Significant Accounting Policies (Continued)

The District has the following recurring fair value measurements as of December 31, 2020:

- Negotiable Certificates of Deposits of \$996,214 are valued using quoted market prices (Level 2 inputs)

Property Taxes

The Board of Managers annually adopts a tax levy and certifies it to the County in December of each year for collection in the following year. The County is responsible for billing and collecting all property taxes for itself, the District, the local School District and other taxing authorities. Such taxes become a lien on January 1st and are recorded as receivables by the District at that date. Real property taxes are payable (by property owners) on May 15th and October 15th of each calendar year. Personal property taxes are payable by taxpayers on February 28th and June 30th of each year. These taxes are collected by the County and remitted to the District on or before July 7th and December 2nd of the same year. The District has no ability to enforce payments of property taxes by property owners. The County possesses this authority.

Delinquent taxes receivable include the past six years' uncollected taxes. Delinquent taxes have been offset by a deferred inflow of resources for taxes not received within 60 days after year end in the fund financial statements.

Accounts Receivable

Accounts receivable include amounts billed for services provided before year end.

Prepaid Items

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items and are recorded as prepaid items. The District uses the consumption method to account for all prepaid items.

Capital Assets

Capital assets, which include land, land improvements and easements are reported in the applicable governmental activities columns in the government-wide financial statements. Capital assets are defined by the District as assets with an initial, individual cost of more than \$5,000 and an estimated useful life in excess of one year. Such assets are recorded at historical cost or estimated historical cost if purchased or constructed. Donated capital assets are recorded at acquisition value at the date of donation.

The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend assets lives are not capitalized.

GASB Statement No. 34 required the District to report and depreciate new infrastructure assets effective with the beginning of the 2004 calendar year. Infrastructure assets include lake improvements, dams and drainage systems. Neither their historical cost nor related depreciation had historically been reported in the financial statements. For governmental entities with total annual revenues of less than \$10 million for the fiscal year ended December 31, 1999 the retroactive reporting of infrastructure is not required under the provisions of GASB Statement No. 34. The District implemented the general provisions of GASB Statement No. 34 in the 2004 calendar year and has elected not to report infrastructure assets acquired in years prior to 2004.

Major outlays for capital assets and improvements are capitalized as projects are constructed.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Notes to the Financial Statements
 December 31, 2020

Note 1: Summary of Significant Accounting Policies (Continued)

Capital assets of the District are depreciated using the straight-line method over the following estimated useful lives:

Assets	Useful Lives in Years
Building	30
Equipment, Boats and Vehicles	7 - 10
Intangibles	10

Deferred Outflows of Resources

In addition to assets, the statement of net position will report a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position that applies to a future period(s) and so will not be recognized as an outflow of resources (expense/expenditure) until then. The District has only item that qualifies for reporting in this category. Accordingly, the item, deferred pension resources, is reported only in the statements of net position. This item results from actuarial calculations and current year pension contributions made subsequent to the measurement date.

Pensions

For purposes of measuring the net pension liability, deferred outflows/inflows of resources, and pension expense, information about the fiduciary net position of the Public Employees Retirement Association (PERA) and additions to/deductions from PERA's fiduciary net position have been determined on the same basis as they are reported by PERA except that PERA's fiscal year end is June 30th. For this purpose, plan contributions are recognized as of employer payroll paid dates and benefit payments and refunds are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value. The General fund is typically used to liquidate the governmental net pension liability.

The total pension expense for all plans recognized by the District for the year ended December 31, 2020, \$58,158

Compensated Absences

It is the District's policy to permit employees to accumulate earned but unused vacation and sick pay benefits, which is paid to the employee upon separation. All vacation pay is accrued when incurred in the government-wide financial statements. A liability for these amounts is reported in governmental funds only if they have matured, for example, as a result of employee resignations and retirements. The 509 Plan Implementation fund is typically used to liquidate governmental compensated absences payable.

Long-term Obligations

In the government-wide financial statements, and proprietary fund types in the fund financial statements, long-term debt and other long-term obligations are reported as liabilities in the applicable governmental activities statement of net position. The recognition of bond premiums and discounts are amortized over the life of the bonds using the straight line method. Bonds payable are reported net of the applicable bond premium or discount. Bond issuance costs are reported as an expense in the period incurred.

Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 1: Summary of Significant Accounting Policies (Continued)

Deferred Inflows of Resources

In addition to liabilities, the statement of net position and fund financial statements will report a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of fund balance that applies to a future period(s) and so will not be recognized as an inflow of resources (revenue) until that time. The District has only one type of item, which arises only under a modified accrual basis of accounting that qualifies for reporting in this category. Accordingly, the item, unavailable revenue, is reported only in the governmental funds balance sheet. The governmental funds report unavailable revenues from property taxes. These amounts are deferred and recognized as an inflow of resources in the period that the amounts become available.

The District has an additional item which qualifies for reporting in this category. The item, deferred pension resources, is reported only in the statements of net position and results from actuarial calculations.

Fund Balance

In the fund financial statements, fund balance is divided into five classifications based primarily on the extent to which the District is bound to observe constraints imposed upon the use of resources reported in the governmental funds. These classifications are defined as follows:

Nonspendable - Amounts that cannot be spent because they are not in spendable form, such as prepaid items.

Restricted - Amounts related to externally imposed constraints established by creditors, grantors or contributors; or constraints imposed by state statutory provisions.

Committed - Amounts constrained for specific purposes that are internally imposed by formal action (resolution) of the Board, which is the District's highest level of decision-making authority. Committed amounts cannot be used for any other purpose unless the Board modifies or rescinds the commitment by resolution.

Assigned - Amounts constrained for specific purposes that are internally imposed. In governmental funds other than the General fund, assigned fund balance represents all remaining amounts that are not classified as nonspendable and are neither restricted nor committed. In the General fund, assigned amounts represent intended uses established by the Board itself or by an official to which the governing body delegates the authority

Unassigned - The residual classification for the General fund and also negative residual amounts in other funds.

The District considers restricted amounts to be spent first when both restricted and unrestricted fund balance is available. Additionally, the District would first use committed, then assigned, and lastly unassigned amounts of unrestricted fund balance when expenditures are made. The district strives to maintain an unassigned fund balance of an amount not less than 50 percent of next year's budgeted expenditures for working capital.

Net Position

Net position represents the difference between assets and deferred outflows of resources and liabilities and deferred inflows of resources. Net position is displayed in three components:

- a. Investment in capital assets - Consists of capital assets, net of accumulated depreciation
- b. Restricted net position - Consists of net position balances restricted when there are limitations imposed on their use through external restrictions imposed by creditors, grantors, laws or regulations of other governments.
- c. Unrestricted net position - All other net position balances that do not meet the definition of "restricted" or "investment in capital assets".

When both restricted and unrestricted resources are available for use, it is the District's policy to use restricted resources first, then unrestricted resources as they are needed.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Notes to the Financial Statements
 December 31, 2020

Note 2: Stewardship, Compliance and Accountability

A. Budgetary Information

The Board of Managers adopts an annual budget for the 509 Plan Implementation fund of the District on an annual basis. During the budget year, supplemental appropriations and deletions are or may be authorized by the Board. The modified accrual basis of accounting is used by the District for budgeting data. All appropriations end with the fiscal year for which they were made. The District does not use encumbrance accounting.

The District monitors budget performance on the fund basis. All amounts over budget have been approved by the Board through the disbursement process. The budget was not amended in 2020.

B. Excess of Expenditures Over Appropriations

For the year ended December 31, 2020, expenditures exceeded appropriations in the following funds:

Fund	Budget	Actual	Excess of Expenditures Over Appropriations
509 Plan Implementation Fund	\$ 3,703,000	\$ 4,854,174	\$ (1,151,174)

These excess expenditures were funded by excess fund balance from previous years' levies and partnership funds.

Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 3: Detailed Notes on Accounts

A. Deposits and Investments

Deposits

Custodial credit risk for deposits and investments is the risk that in the event of a bank failure, the District's deposits and investments may not be returned or the District will not be able to recover collateral securities in the possession of an outside party. In accordance with Minnesota statutes and as authorized by the District Council, the District maintains deposits at those depository banks, all of which are members of the Federal Reserve System.

Minnesota statutes require that all District deposits be protected by insurance, surety bond or collateral. The market value of collateral pledged must equal 110 percent of the deposits not covered by insurance or bonds, with the exception of irrevocable standby letters of credit issued by Federal Home Loan Banks as this type of collateral only requires collateral pledged equal to 100 percent of the deposits not covered by insurance or bonds.

Authorized collateral in lieu of a corporate surety bond includes:

- United States government Treasury bills, Treasury notes, Treasury bonds;
- Issues of United States government agencies and instrumentalities as quoted by a recognized industry quotation service available to the government entity;
- General obligation securities of any state or local government with taxing powers which is rated "A" or better by a national bond rating service, or revenue obligation securities of any state or local government with taxing powers which is rated "AA" or better by a national bond rating service;
- General obligation securities of a local government with taxing powers may be pledged as collateral against funds deposited by that same local government entity;
- Irrevocable standby letters of credit issued by Federal Home Loan Banks to a municipality accompanied by written evidence that the bank's public debt is rated "AA" or better by Moody's Investors Service, Inc., or Standard & Poor's Corporation; and
- Time deposits that are fully insured by any Federal agency.

At the end of the year, the District's carrying amount of deposits was \$2,538,231 and the bank balance was \$2,551,082. Of the bank balance, \$500,000 was covered by Federal depository insurance. The remaining balance was covered by collateral held by the pledging financial institution's trust department in the District's name.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Notes to the Financial Statements
 December 31, 2020

Note 3: Detailed Notes on Accounts (Continued)

Investments

The investments of the District are subject to the following risks:

- *Credit Risk* is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. Ratings are provided by various credit rating agencies and where applicable, indicate associated credit risk. The District follows State Statutes in regards to credit risk of investments. The District policy does not further limit investment choices.
- *Custodial Credit Risk* for investments is the risk that, in the event of the failure of the counterparty to a transaction, a government will not be able to recover the value of investment or collateral securities that are in the possession of an outside party. Investments in securities that are held by the District's broker-dealer include \$500,000 that is insured through the securities investor protection corporation (SIPC). The broker-dealer has provided additional protection by providing additional insurance. This insurance is subject to aggregate limits to all of the broker-dealer's accounts.
- *Concentration of Credit Risk*. This is the risk of loss attributed to the magnitude of a government's investment in a single issuer. The District places no limit on the amount that may be invested in any one issuer. Most of the investments held by the District are over the 5% credit concentration threshold. The District does not have a policy limiting concentration in one issuer.
- *Interest Rate Risk*. This is the risk that changes in interest rates will adversely affect the fair value of an investment. The District does not have an investment policy to address interest rate risk.

At year end, the District's investment balances were as follows:

Types of Investments	Credit Quality/ Ratings (1)	Segmented Time Distribution (2)	Amount	Fair Value Measurement Using		
				Level 1	Level 2	Level 3
Pooled Investments at Amortized Costs						
Brokered Money Market	N/A	less than 6 months	\$ 3,037,724	\$ -	\$ -	\$ -
Non-pooled Investments at Fair Value						
Negotiable certificates of deposits	N/A	less than 1 year	747,214	-	747,214	-
Negotiable certificates of deposits	N/A	1 - 5 years	249,000	-	249,000	-
Total			<u>\$ 4,033,938</u>	<u>\$ -</u>	<u>\$ 996,214</u>	<u>\$ -</u>

(1) Ratings are provided by Moody's where applicable to indicate associated credit risk.

(2) Interest rate risk is disclosed using the segmented time distribution method.

N/A Indicates not applicable or available.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Notes to the Financial Statements
 December 31, 2020

Note 3: Detailed Notes on Accounts (Continued)

A reconciliation of cash and temporary investments as shown on the statement of net position for the District follows:

Primary Government	
Carrying Amount of Deposits	\$ 2,538,231
Investments	<u>4,033,938</u>
Total Cash and Temporary Investments	<u><u>\$ 6,572,169</u></u>

B. Capital Assets

Capital asset activity for the year ended December 31, 2020 was as follows:

	Beginning Balance	Increases	Decreases	Ending Balance
Governmental Activities				
Capital Assets, not being Depreciated				
Land	<u>\$ 627,043</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 627,043</u>
Capital Assets, being Depreciated				
Equipment, boats, vehicles	210,853	-	-	210,853
Intangibles	<u>34,571</u>	<u>-</u>	<u>-</u>	<u>34,571</u>
Total Capital Assets, being Depreciated	<u>245,424</u>	<u>-</u>	<u>-</u>	<u>245,424</u>
Less Accumulated Depreciation for				
Equipment, boats and vehicles	(91,846)	(26,489)		(118,335)
Intangibles	<u>(12,100)</u>	<u>(3,457)</u>	<u>-</u>	<u>(15,557)</u>
Total Accumulated Depreciation	<u>(103,946)</u>	<u>(29,946)</u>	<u>-</u>	<u>(133,892)</u>
Total Capital Assets being Depreciated, Net	<u>141,478</u>	<u>(29,946)</u>	<u>-</u>	<u>111,532</u>
Governmental Activities Capital Assets, Net	<u><u>\$ 768,521</u></u>	<u><u>\$ (29,946)</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 738,575</u></u>

Depreciation expense charged to the project costs function for 2020 was \$29,946.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Notes to the Financial Statements
 December 31, 2020

Note 3: Detailed Notes on Accounts (Continued)

C. Long-term Debt

Changes in Long-term Liabilities

Long-term liability activity for the year ended December 31, 2020 was as follows:

	<u>Beginning Balance</u>	<u>Increases</u>	<u>Decreases</u>	<u>Ending Balance</u>	<u>Current Portion</u>
Governmental Activities					
Compensated Absences Payable	\$ 48,416	\$ 36,878	\$ (34,318)	\$ 50,976	\$ 31,068

D. Operating Lease Obligation

The district entered into an operating lease agreement for building space on January 10, 2017 with CSM Investors Inc. The agreement term is 122 calendar months beginning on March 1, 2017. The lease has base monthly payments that increase from year to year. The district will have the option to extend the lease and additional 5 years when the current lease expires in April of 2027. The total rent expense for the year ended December 31, 2020 was \$90,817.

Future minimum lease payments are as follows:

<u>Year Ending December 31,</u>	<u>Payment</u>
2021	\$ 92,128
2022	93,339
2023	94,603
2024	95,878
2025	97,206
2026 - 2027	<u>131,689</u>
Total	<u>\$ 604,843</u>

Note 4: Defined Benefit Pension Plans - Statewide

A. Plan Description

The District participates in the following cost-sharing multiple-employer defined benefit pension plans administered by the Public Employees Retirement Association of Minnesota (PERA). PERA's defined benefit pension plans are established and administered in accordance with *Minnesota statutes*, chapters 353 and 356. PERA's defined benefit pension plans are tax qualified plans under Section 401(a) of the Internal Revenue Code.

General Employees Retirement Plan

All full-time and certain part-time employees of the District are covered by the General Employees Plan. Members belong to the Coordinated Plan. Coordinated Plan members are covered by Social Security.

Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 4: Defined Benefit Pension Plans - Statewide (Continued)

B. Benefits Provided

PERA provides retirement, disability and death benefits. Benefit provisions are established by state statute and can only be modified by the state legislature. Vested, terminated employees who are entitled to benefits but are not receiving them yet are bound by the provisions in effect at the time they last terminated their public service.

General Employee Plan Benefits

General Employees Plan benefits are based on a member's highest average salary for any five successive years of allowable service, age, and years of credit at termination of service. Two methods are used to compute benefits for PERA's Coordinated Plan members. Members hired prior to July 1, 1989, receive the higher of Method 1 or Method 2 formulas. Only Method 2 is used for members hired after June 30, 1989. Under Method 1, the accrual rate for Coordinated members is 1.2 percent of average salary for each of the first 10 years of service and 1.7 percent of average salary for each additional year. Under Method 2, the accrual rate for Coordinated members is 1.7 percent for average salary for all years of service. For members hired prior to July 1, 1989 a full annuity is available when age plus years of service equal 90 and normal retirement age is 65. For members hired on or after July 1, 1989 normal retirement age is the age for unreduced Social Security benefits capped at 66.

Benefit increases are provided to benefit recipients each January. Beginning in 2019, the postretirement increase will be equal to 50 percent of the cost-of-living adjustment (COLA) announced by the SSA, with a minimum increase of at least 1 percent and a maximum of 1.5 percent. Recipients that have been receiving the annuity or benefit for at least a full year as of the June 30 before the effective date of the increase will receive the full increase. For recipients receiving the annuity or benefit for at least one month but less than a full year as of the June 30 before the effective date of the increase will receive a reduced prorated increase. For members retiring on January 1, 2024, or later, the increase will be delayed until normal retirement age (age 65 if hired prior to July 1, 1989, or age 66 for individuals hired on or after July 1, 1989). Members retiring under Rule of 90 are exempt from the delay to normal retirement.

C. Contributions

Minnesota statutes chapter 353 sets the rates for employer and employee contributions. Contribution rates can only be modified by the state Legislature.

General Employees Fund Contributions

Coordinated Plan members were required to contribute 6.50 percent of their annual covered salary in fiscal year 2020 and the District was required to contribute 7.50 percent for Coordinated Plan members. The District's contributions to the General Employees Fund for the years ending December 31, 2020, 2019 and 2018 were \$33,599, \$31,326, and \$23,840, respectively. The District's contributions were equal to the required contributions for each year as set by state statute.

D. Pension Costs

General Employees Fund Pension Costs

At December 31, 2020, the District reported a liability of \$359,727 or its proportionate share of the General Employees Fund's net pension liability. The District's net pension liability reflected a reduction due to the State of Minnesota's contribution of \$16 million. The State of Minnesota is considered a non-employer contributing entity and the State's contribution meets the definition of a special funding situation. The State of Minnesota's proportionate share of the net pension liability associated with the District totaled \$11,120. The net pension liability was measured as of June 30, 2020, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The District's proportionate share of the net pension liability was based on the District's contributions received by PERA during the measurement period for employer payroll paid dates from July 1, 2019 through June 30, 2020 relative to the total employer contributions received from all of PERA's participating employers. The District's proportion was 0.0060 percent which was an increase of 0.0005 its proportion measured as of June 30, 2019.

Riley Purgatory Bluff Creek Watershed District
Chanhasen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 4: Defined Benefit Pension Plans - Statewide (Continued)

District's Proportionate Share of the Net Pension Liability	\$ 359,727
State of Minnesota's Proportionate Share of the Net Pension Liability Associated with the District	<u>11,120</u>
Total	<u><u>\$ 370,847</u></u>

For the year ended December 31, 2020, the District recognized pension expense of \$57,190, or its proportionate share of the General Employees Plan's pension expense. In addition, the District recognized an additional \$968 as pension expense (and grant revenue) for its proportionate share of the State of Minnesota's contribution of \$16 million to the General Employees Fund.

At December 31, 2020, the District reported its proportionate share of the General Employees Plan's deferred outflows of resources and deferred inflows of resources, related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between Expected and Actual Experience	\$ 3,381	\$ 4,764
Changes in Actuarial Assumptions	1,413	13,847
Net Difference between Projected and Actual Earnings on Plan Investments	20,650	-
Changes in Proportion	69,088	-
Contributions Paid to PERA Subsequent to the Measurement Date	<u>17,874</u>	<u>-</u>
Total	<u><u>\$ 112,406</u></u>	<u><u>\$ 18,611</u></u>

The \$17,874 reported as deferred outflows of resources related to pensions resulting from the District's contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended December 31, 2021. Other amounts reported as deferred outflows and inflows of resources related to pensions will be recognized in pension expense as follows:

2021	\$ 30,241
2022	22,440
2023	14,550
2024	8,690

E. Actuarial Assumptions

The total pension liability in the June 30, 2020 actuarial valuation was determined using an individual entry-age normal actuarial cost method and the following actuarial assumptions:

Inflation	2.75% per year
Active Member Payroll Growth	3.50% per year
Investment Rate of Return	7.50%

Salary increases were based on a service-related table. Mortality rates for active members, retirees, survivors and disabilitants were based on RP-2014 tables for males or females, as appropriate, with slight adjustments to fit PERA's experience. Cost of living benefit increases after retirement for retirees are assumed to be 1.25 percent per year for General Employees Plan.

Riley Purgatory Bluff Creek Watershed District
Chanhausen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 4: Defined Benefit Pension Plans - Statewide (Continued)

Actuarial assumptions used in the June 30, 2020 valuation were based on the results of actuarial experience studies. The most recent four-year experience study in the General Employees Plan was completed in 2019. The assumption changes were adopted by the Board and become effective with the July 1, 2020 actuarial valuation.

The following changes in actuarial assumptions and plan provisions occurred in 2020:

General Employees Fund

Changes in Actuarial Assumptions

- The price inflation assumption was decreased from 2.50% to 2.25%.
- The payroll growth assumption was decreased from 3.25% to 3.00%.
- Assumed salary increase rates were changed as recommended in the June 30, 2019 experience study. The net effect is assumed rates that average 0.25% less than previous rates.
- Assumed rates of retirement were changed as recommended in the June 30, 2019 experience study. The changes result in more unreduced (normal) retirements and slightly fewer Rule of 90 and early retirements.
- Assumed rates of termination were changed as recommended in the June 30, 2019 experience study. The new rates are based on service and are generally lower than the previous rates for years 2-5 and slightly higher thereafter.
- Assumed rates of disability were changed as recommended in the June 30, 2019 experience study. The change results in fewer predicted disability retirements for males and females.
- The base mortality table for healthy annuitants and employees was changed from the RP-2014 table to the Pub-2010 General Mortality table, with adjustments. The base mortality table for disabled annuitants was changed from the RP-2014 disabled annuitant mortality table to the PUB-2010 General/Teacher disabled annuitant mortality table, with adjustments.
- The mortality improvement scale was changed from Scale MP-2018 to Scale MP-2019.
- The assumed spouse age difference was changed from two years older for females to one year older.
- The assumed number of married male new retirees electing the 100% Joint & Survivor option changed from 35% to 45%. The assumed number of married female new retirees electing the 100% Joint & Survivor option changed from 15% to 30%. The corresponding number of married new retirees electing the Life annuity option was adjusted accordingly.

Changes in Plan Provisions

- Augmentation for current privatized members was reduced to 2.0% for the period July 1, 2020 through December 31, 2023 and 0.0% after. Augmentation was eliminated for privatizations occurring after June 30, 2020.

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Notes to the Financial Statements
 December 31, 2020

Note 4: Defined Benefit Pension Plans - Statewide (Continued)

The State Board of Investment, which manages the investments of PERA, prepares an analysis of the reasonableness on a regular basis of the long-term expected rate of return using a building-block method in which best-estimate ranges of expected future rates of return are developed for each major asset class. These ranges are combined to produce an expected long-term rate of return by weighting the expected future rates of return by the target asset allocation percentages. The target allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

Asset Class	Target Allocation	Long-term Expected Real Rate of Return
Domestic Stocks	35.5 %	5.10 %
Alternative Assets (Private Markets)	25.0	5.90
Bonds (Fixed Income)	20.0	0.75
International Stocks	17.5	5.30
Cash	2.0	-
Total	<u>100.00 %</u>	

F. Discount Rate

The discount rate used to measure the total pension liability in 2020 was 7.50 percent. The projection of cash flows used to determine the discount rate assumed that contributions from plan members and employers will be made at rates set in Minnesota Statutes. Based on these assumptions, the fiduciary net position of the General Employees Fund was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

G. Pension Liability Sensitivity

The following presents the District's proportionate share of the net pension liability for all plans it participates in, calculated using the discount rate disclosed in the preceding paragraph, as well as what the District's proportionate share of the net pension liability would be if it were calculated using a discount rate 1 percentage point lower or 1 percentage point higher than the current discount rate:

	1 Percent Decrease (6.50%)	Current (7.50%)	1 Percent Increase (8.50%)
General Employees Fund	\$ 576,518	\$ 359,727	\$ 180,892

H. Pension Plan Fiduciary Net Position

Detailed information about each pension plan's fiduciary net position is available in a separately-issued PERA financial report that includes financial statements and required supplementary information. That report may be obtained on the Internet at www.mnpera.org.

Riley Purgatory Bluff Creek Watershed District
Chanhausen, Minnesota
Notes to the Financial Statements
December 31, 2020

Note 5: Other Information

Risk Management

The District is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; errors and omissions; injuries to employees; and natural disasters for which the District carries insurance. The District pays annual premiums for its workers compensation and property and casualty insurance. Settled claims have not exceeded the District's coverage in any of the past three fiscal years.

Liabilities are reported when it is probable that a loss has occurred and the amount of the loss can be reasonably estimated. Liabilities, if any, include an amount for claims that have been incurred but not reported (IBNRs). The District's management is not aware of any incurred but not reported claims.

Note 6: COVID-19

On January 30, 2020, the World Health Organization ("WHO") announced a global health emergency because of a new strain of coronavirus ("COVID-19") and the risks to the international community as virus spreads globally. On March 11, 2020, the WHO classified the COVID-19 outbreak as a pandemic, based on the rapid increase in exposure globally. In response to the pandemic, the State of Minnesota has issued stay-at-home orders and other measures aimed at slowing the spread of the coronavirus.

The full impact of the COVID-19 outbreak continues to evolve as of the date of this report. Due to the rapid development and fluidity of this situation, the District cannot determine the ultimate impact that the COVID-19 pandemic will have on its financial condition, liquidity, and future revenue collection, and therefore any prediction as to the ultimate impact on the District's financial condition, liquidity, and future results of its revenue collections is uncertain.

REQUIRED SUPPLEMENTARY INFORMATION
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

FOR THE YEAR ENDED
DECEMBER 31, 2020

Riley Purgatory Bluff Creek Watershed District
 Chanhassen, Minnesota
 Required Supplementary Information
 December 31, 2020

Schedule of Employer's Share of PERA Net Pension Liability - General Employees Retirement Fund

Fiscal Year Ending	District's Proportion of the Net Pension Liability	District's Proportionate Share of the Net Pension Liability (a)	State's Proportionate Share of the Net Pension Liability Associated with the District (b)	Total (a+b)	District's Covered Payroll (c)	District's Proportionate Share of the Net Pension Liability as a Percentage of Covered Payroll ((a+b)/c)	Plan Fiduciary Net Position as a Percentage of the Total Pension Liability
06/30/20	0.0060 %	\$ 359,727	\$ 11,120	\$ 370,847	\$ 426,004	84.4 %	79.0 %
06/30/19	0.0055	304,083	9,500	313,583	360,608	87.0	80.2
06/30/18	0.0047	260,737	8,633	269,370	316,977	85.0	79.5
06/30/17	0.0034	217,054	2,731	219,785	220,465	99.7	75.9
06/30/16	0.0028	227,346	2,931	230,277	172,425	133.6	68.9
06/30/15	0.0021	98,647	-	98,647	84,947	116.1	78.2

Note: Schedule is intended to show 10-year trend. Additional years will be reported as they become available

Schedule of Employer's PERA Contributions - General Employees Fund

Year Ending	Statutorily Required Contribution (a)	Contributions in Relation to the Statutorily Required Contribution (b)	Contribution Deficiency (Excess) (a-b)	District's Covered Payroll (c)	Contributions as a Percentage of Covered Payroll (b/c)
12/31/20	\$ 33,599	\$ 33,599	\$ -	\$ 447,990	7.5 %
12/31/19	31,326	31,326	-	417,681	7.5
12/31/18	23,840	23,840	-	317,869	7.5
12/31/17	21,160	21,160	-	282,139	7.5
12/31/16	13,813	13,813	-	184,176	7.5
12/31/15	12,742	12,742	-	169,893	7.5

Note: Schedule is intended to show 10-year trend. Additional years will be reported as they become available

Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota
Required Supplementary Information (Continued)
December 31, 2020

Notes to the Required Supplementary Information - General Employees Fund

Changes in Actuarial Assumptions

2020 - The price inflation assumption was decreased from 2.50% to 2.25%. The payroll growth assumption was decreased from 3.25% to 3.00%. Assumed salary increase rates were changed as recommended in the June 30, 2019 experience study. The net effect is assumed rates that average 0.25% less than previous rates. Assumed rates of retirement were changed as recommended in the June 30, 2019 experience study. The changes result in more unreduced (normal) retirements and slightly fewer Rule of 90 and early retirements. Assumed rates of termination were changed as recommended in the June 30, 2019 experience study. The new rates are based on service and are generally lower than the previous rates for years 2-5 and slightly higher thereafter. Assumed rates of disability were changed as recommended in the June 30, 2019 experience study. The change results in fewer predicted disability retirements for males and females. The base mortality table for healthy annuitants and employees was changed from the RP-2014 table to the Pub-2010 General Mortality table, with adjustments. The base mortality table for disabled annuitants was changed from the RP-2014 disabled annuitant mortality table to the PUB-2010 General/Teacher disabled annuitant mortality table, with adjustments. The mortality improvement scale was changed from Scale MP-2018 to Scale MP-2019. The assumed spouse age difference was changed from two years older for females to one year older. The assumed number of married male new retirees electing the 100% Joint & Survivor option changed from 35% to 45%. The assumed number of married female new retirees electing the 100% Joint & Survivor option changed from 15% to 30%. The corresponding number of married new retirees electing the Life annuity option was adjusted accordingly.

2019 - The mortality projection scale was changed from MP-2017 to MP-2018.

2018 - The mortality projection scale was changed from MP-2015 to MP-2017. The assumed benefit increase was changed from 1.00 percent per year through 2044 and 2.50 percent per year thereafter to 1.25 percent per year.

2017 - The Combined Service Annuity (CSA) loads were changed from 0.8 percent for active members and 60 percent for vested and non-vested deferred members. The revised CSA loads are now 0.0 percent for active member liability, 15.0 percent for vested deferred member liability and 3.0 percent for non-vested deferred member liability. The assumed post-retirement benefit increase rate was changed from 1.0 percent per year for all years to 1.0 percent per year through 2044 and 2.5 percent per year thereafter.

2016 - The assumed post-retirement benefit increase rate was changed from 1.0 percent per year through 2035 and 2.5 percent per year thereafter to 1.0 percent per year for all future years. The assumed investment return was changed from 7.9 percent to 7.5 percent. The single discount rate was changed from 7.9 percent to 7.5 percent. Other assumptions were changed pursuant to the experience study dated June 30, 2015. The assumed future salary increases, payroll growth and inflation were decreased by 0.25 percent to 3.25 percent for payroll growth and 2.50 percent for inflation.

2015 - The assumed post-retirement benefit increase rate was changed from 1.0 percent per year through 2030 and 2.5 percent per year thereafter to 1.0 percent per year through 2035 and 2.5 percent per year thereafter.

Riley Purgatory Bluff Creek Watershed District
Chanhausen, Minnesota
Required Supplementary Information (Continued)
December 31, 2020

Notes to the Required Supplementary Information - General Employees Fund (Continued)

Changes in Plan Provisions

2020 - Augmentation for current privatized members was reduced to 2.0% for the period July 1, 2020 through December 31, 2023 and 0.0% after. Augmentation was eliminated for privatizations occurring after June 30, 2020.

2019 - The employer supplemental contribution was changed prospectively, decreasing from \$31.0 million to \$21.0 million per year. The state's special funding contribution was changed prospectively, requiring \$16.0 million due per year through 2031.

2018 - The augmentation adjustment in early retirement factors is eliminated over a five-year period starting July 1, 2019, resulting in actuarial equivalence after June 30, 2024. Interest credited on member contributions decreased from 4.00 percent to 3.00 percent, beginning July 1, 2018. Deferred augmentation was changed to 0.00 percent, effective January 1, 2019. Augmentation that has already accrued for deferred members will still apply. Contribution stabilizer provisions were repealed. Postretirement benefit increases were changed from 1.00 percent per year with a provision to increase to 2.50 percent upon attainment of 90.00 percent funding ratio to 50.00 percent of the Social Security Cost of Living Adjustment, not less than 1.00 percent and not more than 1.50 percent, beginning January 1, 2019. For retirements on or after January 1, 2024, the first benefit increase is delayed until the retiree reaches normal retirement age; does not apply to Rule of 90 retirees, disability benefit recipients, or survivors. Actuarial equivalent factors were updated to reflect revised mortality and interest assumptions.

2017 - The State's contribution for the Minneapolis Employees Retirement Fund equals \$16,000,000 in 2017 and 2018, and \$6,000,000 thereafter. The Employer Supplemental Contribution for the Minneapolis Employees Retirement Fund changed from \$21,000,000 to \$31,000,000 in calendar years 2019 to 2031. The state's contribution changed from \$16,000,000 to \$6,000,000 in calendar years 2019 to 2031.

2016 - No changes noted

2015 - On January 1, 2015, the Minneapolis Employees Retirement Fund was merged into the General Employees Fund, which increased the total pension liability by \$1.1 billion and increased the fiduciary plan net position by \$892 million. Upon consolidation, state and employer contributions were revised.

OTHER REQUIRED REPORT
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

FOR THE YEAR ENDED
DECEMBER 31, 2020

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INDEPENDENT AUDITOR'S REPORT
ON MINNESOTA LEGAL COMPLIANCE

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

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the governmental activities and each major fund of the Riley Purgatory Bluff Creek Watershed District (the District), Chanhassen, Minnesota, as of and for the year ended December 31, 2020, and the related notes to the financial statements and have issued our report thereon dated May 26, 2021.

In connection with our audit, nothing came to our attention that caused us to believe that the District failed to comply with the provisions of the contracting and bidding, deposits and investments, conflicts of interest, public indebtedness, claims and disbursements, miscellaneous provisions, and tax increment financing sections of the *Minnesota Legal Compliance Audit Guide for Cities*, promulgated by the State Auditor pursuant to Minn. Stat. § 6.65, except as described in the Schedule of Findings and Responses as items 2020-001. However, our audit was not directed primarily toward obtaining knowledge of such noncompliance. Accordingly, had we performed additional procedures, other matters may have come to our attention regarding the District's noncompliance with the above referenced provisions, insofar as they relate to accounting matters.

This report is intended solely for the information and use those charged with governance and management of the District and the State Auditor and is not intended to be and should not be used by anyone other than these specified parties.

ABDO, EICK & MEYERS, LLP
Minneapolis, Minnesota
May 26, 2021

Riley Purgatory Bluff Creek Watershed District
Chanhausen, Minnesota
Schedule of Finding and Response
December 31, 2020

<u>Finding</u>	<u>Description</u>
2020-001	Time Period for Payment
<i>Condition:</i>	Auditing for legal compliance requires a review of the District's payment of claims. Our audit indicated an instance of non-compliance that we believe is required to be remedied.
<i>Criteria:</i>	Minnesota statute section 471.425 requires that the District pay bills within 35 days from receipt. If the invoice is not paid within the 35 days, interest at 1.5 percent per month is to be added to amount due.
<i>Cause:</i>	We noted several instances where invoices that were paid after the 35-day period. This was due to invoices submitted and received after the internal cutoff date.
<i>Effect:</i>	The District is out of compliance with this statute.
<i>Recommendation:</i>	We recommend that the District develop policies and procedures related to the accounts payable cycle. These policies and procedures should include payment terms that are outlined within State statutes. We also recommend purchasing a date stamp to document when all invoices are received at the District. Implementing this recommendation will not result in any additional cost to the District.

Management Response:

The District's Board of Managers meets only once per month. The vast majority of all claims and invoices are paid within 35 days. The District's accountant and Treasurer process all current invoices and prepare checks for payment about five (days) prior to the Board meeting. On the occasions when an invoice is submitted after that cutoff date, payment can take more than 35 days. This situation is common for units of government holding meetings only once per month. We would welcome recommendations on policies and procedures to address the accounts payable cycle, but there are costs and other considerations to holding board meetings more frequently than once per month.

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Client: **47441 - Riley Purgatory Bluff Creek Watershed District**
 Engagement: **2020A - Riley Purgatory Bluff Creek WD**
 Period Ending: **12/31/2020**
 Trial Balance: **TB**
 Workpaper:

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
Group : [05] General Fund								
Subgroup : [1000] Cash								
10-00-1001	General Checking-Old National	2,135,079.00	2,514,972.00		0.00	1053	2,514,972.00	0.00
10-00-1002	Checking-Old National/BMW	1,373,256.00	23,256.00		0.00	1053	23,256.00	0.00
10-00-1035	Investments-Standing Cash	27,235.00	3,037,727.00		0.00	1053	3,037,727.00	0.00
10-00-1040	Investments-Wells Fargo	4,404,945.00	996,214.00		0.00	1053	996,214.00	0.00
Subtotal [1000] Cash		7,940,515.00	6,572,169.00		0.00		6,572,169.00	0.00
Subgroup : [1200] Accounts Receivable								
10-00-1200	Accounts Receivable	1,591.00	6,712.00		0.00	1203	6,712.00	0.00
Subtotal [1200] Accounts Receivable		1,591.00	6,712.00		0.00		6,712.00	0.00
Subgroup : [1205] Due from Other Governments								
10-00-1300	Due From Other Govt.	129,117.00	473,880.00		0.00	1203	473,880.00	0.00
Subtotal [1205] Due from Other Governments		129,117.00	473,880.00		0.00		473,880.00	0.00
Subgroup : [1210] Accrued Interest Receivable								
10-00-1150	Accrued Investment Interest	21,875.00	8.00		0.00	1053	8.00	0.00
Subtotal [1210] Accrued Interest Receivable		21,875.00	8.00		0.00		8.00	0.00
Subgroup : [1400] Taxes Receivable								
10-00-1400	Taxes Receivable	18,954.00	28,584.00		0.00	1153	28,584.00	0.00
Subtotal [1400] Taxes Receivable		18,954.00	28,584.00		0.00		28,584.00	0.00
Subgroup : [1401] Taxes - Delinquent								
10-00-1450	Taxes Receivable-Delinquent	36,003.00	36,003.00		(1,211.00)	1153	34,792.00	0.00
Subtotal [1401] Taxes - Delinquent		36,003.00	36,003.00	AJE - 3	(1,211.00)		34,792.00	0.00
Subgroup : [1460] Prepaids								
10-00-1460	Pre-Paid Expense	24,742.00	31,914.00		0.00	1501	31,914.00	0.00
10-00-1480	Security Deposits	7,244.00	7,244.00		0.00	1501	7,244.00	0.00
Subtotal [1460] Prepaids		31,986.00	39,158.00		0.00		39,158.00	0.00
Subgroup : [2100] Accounts Payable								
10-00-2100	Accounts Payable	(606,828.00)	(323,622.00)		27,617.00	2053	(239,580.00)	0.00
Subtotal [2100] Accounts Payable		(606,828.00)	(323,622.00)	AJE - 2	27,617.00		(239,580.00)	0.00
10-00-2150	Retainage Payable	(12,521.00)	(32,597.00)		0.00	2053	(32,597.00)	0.00
Subtotal [2100] Accounts Payable		(619,349.00)	(356,219.00)	AJE - 2	5,607.00		(272,177.00)	0.00
Subgroup : [2150] Deposits Payable								
10-00-2330	Permits & Sureties Payable	(909,245.00)	(659,183.00)		0.00	2053	(659,183.00)	0.00
Subtotal [2150] Deposits Payable		(909,245.00)	(659,183.00)		0.00		(659,183.00)	0.00
Subgroup : [2160] Salaries Payable								
10-00-2200	Salaries Payable	(19,462.00)	(21,512.00)		0.00	2103	(21,512.00)	0.00
10-00-2210	Federal Withholding	(467.00)	(571.00)		0.00	2102	(571.00)	0.00
10-00-2220	FICA/Medicare	(861.00)	(975.00)		0.00	2102	(975.00)	0.00
10-00-2230	State Withholding	(240.00)	(290.00)		0.00	2102	(290.00)	0.00
Subtotal [2160] Salaries Payable		(21,030.00)	(23,348.00)		0.00		(23,348.00)	0.00
Subgroup : [2170] Due to Other Governments								
10-00-2160	Due to Other Governments	(61,346.00)	0.00		0.00	2053	(56,425.00)	0.00
Subtotal [2170] Due to Other Governments		(61,346.00)	0.00		0.00		(56,425.00)	0.00
Subgroup : [2400] Unavailable Revenue - Other								
10-00-2401	Unearned Revenue-Grants	(199,470.00)	(181,331.00)		(1,822.00)	2202	(183,153.00)	0.00
Subtotal [2400] Unavailable Revenue - Other		(199,470.00)	(181,331.00)	AJE - 1	(1,822.00)		(183,153.00)	0.00
Subgroup : [2401] Unavailable Revenue - Taxes								
10-00-2400	Deferred Revenue	(36,003.00)	(36,003.00)		1,211.00	2202	(34,792.00)	0.00
Subtotal [2401] Unavailable Revenue - Taxes		(36,003.00)	(36,003.00)	AJE - 3	1,211.00		(34,792.00)	0.00
Subgroup : [2700] Assigned Fund Balance								
10-00-2900	Fund Balance-General	(5,166,687.00)	(6,333,598.00)		0.00	2502	(6,333,598.00)	0.00
Subtotal [2700] Assigned Fund Balance		(5,166,687.00)	(6,333,598.00)		0.00		(6,333,598.00)	0.00
Subgroup : [3100] Property Taxes								
10-00-3100	Tax Levy-Hennepin County	(2,749,937.00)	(2,835,533.00)		0.00	1153	(2,835,533.00)	(3,703,000.00)
10-00-3101	Tax Levy-Carver County	(831,548.00)	(868,350.00)		0.00	1153	(868,350.00)	0.00
Subtotal [3100] Property Taxes		(3,581,485.00)	(3,703,883.00)		0.00		(3,703,883.00)	(3,703,000.00)
Subgroup : [3200] Intergovernmental-Grants								
10-00-3205	Market Value Credit	(58.00)	(70.00)		0.00	1353	(70.00)	0.00
10-00-3300	Grants-Income	0.00	(4,500.00)		4,500.00		0.00	0.00
20-05-3300	Income-Grants	(5,500.00)	0.00		0.00		0.00	0.00
20-18-3302	Partnerships	(14,000.00)	(14,000.00)		0.00		(14,000.00)	0.00
20-19-3300	Grant Income	(5,970.00)	(18,139.00)		(2,678.00)	1352	(20,817.00)	0.00
30-03-3300	Grants-Income	(295,950.00)	0.00		(2,678.00)		0.00	0.00
40-07-3300	Grant Income	(42,539.00)	(12,461.00)		0.00	1352	(12,461.00)	0.00
50-06-3300	Grant Income	(24,979.00)	0.00		0.00		0.00	0.00
50-06-3302	Income-Partnership	(15,000.00)	0.00		0.00		0.00	0.00
50-07-3302	Income-Partnerships	(20,000.00)	0.00		0.00		0.00	0.00
50-09-3300	Grant Income	(41,297.00)	(28,703.00)		0.00	1352	(28,703.00)	0.00
Subtotal [3200] Intergovernmental-Grants		(465,293.00)	(77,873.00)		1,822.00		(76,051.00)	0.00
Subgroup : [3700] Interest Earnings								
10-00-3700	Interest Revenue	(109,652.00)	(29,900.00)		0.00	1052	(29,900.00)	(75,000.00)
Subtotal [3700] Interest Earnings		(109,652.00)	(29,900.00)		0.00		(29,900.00)	(75,000.00)

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
Subgroup : [3900] Miscellaneous Revenue								
10-00-3800	Miscellaneous Revenue	(1,572.00)	(3,873.00)		0.00		(3,873.00)	0.00
10-00-3805	Reimbursements	0.00	(10,956.00)		0.00		(10,956.00)	0.00
20-03-3800	Miscellaneous Income	(2.00)	0.00		0.00		0.00	0.00
20-05-3500	Income-Data Collection	(2,700.00)	0.00		0.00		0.00	0.00
20-05-3800	Miscellaneous Income	(56.00)	0.00		0.00		0.00	0.00
20-08-3800	Miscellaneous Income	(200.00)	0.00		0.00		0.00	0.00
	Subtotal [3900] Miscellaneous Revenue	(4,530.00)	(14,829.00)		0.00		(14,829.00)	0.00
Subgroup : [3300] Partner Funds								
10-00-3302	Partnerships	0.00	(3,200.00)		0.00		(3,200.00)	0.00
20-19-3302	Partnerships	0.00	(6,600.00)		0.00		(6,600.00)	0.00
30-01-3302	Partnerships	0.00	(50,000.00)		0.00		(50,000.00)	0.00
40-05-3302	Partnerships	0.00	(480,698.00)		0.00		(480,698.00)	0.00
40-07-3302	Partnerships	0.00	(5,000.00)		0.00		(5,000.00)	0.00
50-09-3302	Partnerships	0.00	(5,000.00)		0.00		(5,000.00)	0.00
	Subtotal [3300] Partner Funds	0.00	(550,498.00)		0.00		(550,498.00)	0.00
Subgroup : [3800] Permit Income								
10-00-3400	Permit Fees	(44,344.00)	(71,340.00)		0.00		(71,340.00)	(25,000.00)
10-00-3500	Data Collection Income	0.00	(300.00)		0.00		(300.00)	0.00
	Subtotal [3800] Permit Income	(44,344.00)	(71,640.00)		0.00		(71,640.00)	(25,000.00)
Subgroup : [4400] Projects- Bluff Creek								
30-01-4410	Legal Fees	830.00	478.00		0.00		478.00	0.00
30-01-4500	Engineering-Bluff Creek	21,070.00	10,692.00		0.00		10,692.00	0.00
30-01-4600	Construction Expense	204,154.00	54,015.00		(5,607.00)	1603	48,408.00	0.00
				AJE - 2	(5,607.00)			
30-02-4410	Legal Expense	180.00	0.00		0.00		0.00	0.00
30-02-4500	Engineering-Chanhassen HS	1,430.00	0.00		0.00		0.00	0.00
30-03-4220	Office Building Utilities	106.00	0.00		0.00		0.00	0.00
30-03-4260	Miscellaneous Expense	31.00	43.00		0.00		43.00	0.00
30-03-4290	Legal Notices	1,151.00	764.00		0.00		764.00	0.00
30-03-4410	Legal Fees	8,779.00	15,155.00		0.00		15,155.00	0.00
30-03-4500	Engineering-Wetland	0.00	28,637.00		0.00		28,637.00	0.00
30-03-4600	Construction Expense	0.00	48,790.00		0.00	1603	48,790.00	0.00
	Subtotal [4400] Projects- Bluff Creek	237,731.00	158,574.00		(5,607.00)		152,967.00	0.00
Subgroup : [4450] Projects- Riley Creek								
40-02-4410	Legal Expense	3,491.00	279.00		0.00		279.00	0.00
40-02-4600	Construction Expense	8,004.00	0.00		0.00		0.00	0.00
40-04-4335	Professional Services	0.00	13,863.00		0.00		13,863.00	0.00
40-04-4410	Legal Fees	0.00	1,069.00		0.00		1,069.00	0.00
40-04-4600	Construction Expense	13,415.00	0.00		0.00		0.00	150,000.00
40-05-4410	Legal Fees	5,227.00	5,215.00		0.00		5,215.00	0.00
40-05-4500	Engineering-Riley Creek	36,136.00	42,017.00		0.00		42,017.00	0.00
40-05-4600	Construction Expense	46,274.00	1,932,188.00		(22,010.00)	1603	1,910,178.00	0.00
				AJE - 2	(22,010.00)			
40-06-4335	Professional Services	0.00	253,683.00		0.00		253,683.00	300,000.00
40-06-4410	Legal Fees	0.00	3,171.00		0.00		3,171.00	0.00
40-06-4500	Engineering	0.00	260.00		0.00		260.00	0.00
40-07-4201	Supplies-Field	1,647.00	0.00		0.00		0.00	0.00
40-07-4500	Engineering-Riley	21,119.00	33,039.00		0.00		33,039.00	0.00
40-07-4530	Lab Analysis	3,536.00	813.00		0.00		813.00	0.00
40-07-4635	Equipment	16,237.00	0.00		0.00		0.00	0.00
40-08-4500	engineering Expense	0.00	47,975.00		0.00		47,975.00	0.00
40-08-46000	Construction Expense	0.00	0.00		0.00		0.00	675,000.00
40-09-4290	Legal Notices	0.00	741.00		0.00		741.00	0.00
40-09-4500	Engineering-Middle Riley Creek	0.00	75,797.00		0.00		75,797.00	0.00
40-10-4500	Engineering Expense	0.00	15,853.00		0.00		15,853.00	0.00
40-10-4600	Construction Expense	0.00	0.00		0.00		0.00	150,000.00
40-12-4410	Legal Fees	0.00	4,845.00		0.00		4,845.00	0.00
40-12-4500	Engineering Expense	0.00	48,092.00		0.00		48,092.00	0.00
	Subtotal [4450] Projects- Riley Creek	155,086.00	2,478,900.00		(22,010.00)		2,456,890.00	1,275,000.00
Subgroup : [4460] Projects- Purgatory Creek								
50-02-4335	Professional Services	0.00	15,101.00		0.00		15,101.00	0.00
50-03-4335	Professional Services	1,666.00	24,880.00		0.00		24,880.00	0.00
50-04-4410	Legal Expense	90.00	0.00		0.00		0.00	0.00
50-05-4410	Legal Expense	1,938.00	3,153.00		0.00		3,153.00	0.00
50-05-4500	Engineering-Silver Lake	10,144.00	45,571.00		0.00		45,571.00	100,000.00
50-06-4410	Legal Fees	113.00	0.00		0.00		0.00	0.00
50-06-4500	Engineering-Scenic Heights	4,258.00	3,419.00		0.00		3,419.00	0.00
50-06-4600	Construction Expense	51,397.00	19,981.00		0.00	1603	19,981.00	0.00
50-07-4290	Legal Notices	969.00	0.00		0.00		0.00	0.00
50-07-4410	Legal Fees	2,385.00	0.00		0.00		0.00	0.00
50-07-4500	Engineering-Hyland	10,599.00	0.00		0.00		0.00	0.00
50-07-4600	Construction Expense	114,659.00	0.00		0.00		0.00	10,000.00
50-08-4290	Legal Notices	727.00	0.00		0.00		0.00	0.00
50-08-4335	Professional Services	0.00	1,000.00		0.00		1,000.00	0.00
50-08-4410	Legal Fees	4,366.00	9,366.00		0.00		9,366.00	0.00
50-08-4500	Engineering-Duck Lake	58,032.00	13,120.00		0.00		13,120.00	0.00
50-08-4600	Construction Expense	25,408.00	69,817.00		0.00	1603	69,817.00	0.00
50-09-4201	Supplies-Field	1,269.00	0.00		0.00		0.00	0.00
50-09-4500	Engineering-Mitchell	21,343.00	51,259.00		0.00		51,259.00	0.00
50-09-4530	Lab Analysis	3,536.00	813.00		0.00		813.00	0.00
50-09-4635	Equipment	15,149.00	0.00		0.00		0.00	0.00
50-10-4500	Engineering Expense	0.00	15,621.00		0.00		15,621.00	0.00
50-10-4600	Construction Expense	0.00	0.00		0.00		0.00	30,000.00
	Subtotal [4460] Projects- Purgatory Creek	328,048.00	273,101.00		0.00		273,101.00	140,000.00
Subgroup : [5143] General Gov't- Administration - Secretarial Fees and Supplies								
10-00-4000	Manager Per Diem	16,100.00	20,500.00		0.00		20,500.00	20,000.00
10-00-4010	Manager Expense	9,022.00	2,231.00		0.00		2,231.00	0.00
10-00-4100	Wages	405,662.00	373,163.00		0.00		373,163.00	600,000.00
10-00-4110	Benefits	58,151.00	60,642.00		0.00		60,642.00	0.00
10-00-4120	PERA Expense	34,133.00	27,916.00		0.00		27,916.00	0.00
10-00-4130	Payroll Taxes	33,193.00	28,975.00		0.00		28,975.00	0.00
10-00-4140	Payroll Taxes-Unemployment	534.00	615.00		0.00		615.00	0.00
10-00-4200	Office Supplies	5,038.00	13,565.00		0.00		13,565.00	150,000.00
10-00-4201	Supplies-Field	131.00	441.00		0.00		441.00	0.00

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
10-00-4203	Computer Software	4,568.00	3,646.00		0.00		3,646.00	0.00
10-00-4205	Meeting Supplies/Expense	127.00	805.00		0.00		805.00	0.00
10-00-4208	Printing	1,977.00	1,905.00		0.00		1,905.00	0.00
10-00-4210	Rent	93,593.00	90,817.00		0.00	2251	90,817.00	0.00
10-00-4215	Office Building Maintenance	10,228.00	13,606.00		0.00		13,606.00	0.00
10-00-4220	Office Building Utilities	9,133.00	9,165.00		0.00		9,165.00	0.00
10-00-4240	Telecommunications	8,950.00	9,318.00		0.00		9,318.00	0.00
10-00-4245	Dues	11,187.00	10,959.00		0.00		10,959.00	14,000.00
10-00-4250	Publications	3,724.00	0.00		0.00		0.00	0.00
10-00-4260	Miscellaneous-General	4,056.00	5,176.00		0.00		5,176.00	0.00
10-00-4265	Training & Education	1,832.00	1,861.00		0.00		1,861.00	0.00
10-00-4270	Insurance & Bonds	16,186.00	11,223.00		0.00		11,223.00	20,000.00
10-00-4280	Postage	221.00	1,410.00		0.00		1,410.00	0.00
10-00-4290	Legal Notices	2,205.00	190.00		0.00		190.00	0.00
10-00-4320	Staff Travel	2,412.00	502.00		0.00		502.00	0.00
10-00-4321	Staff Expense	10,607.00	5,219.00		0.00		5,219.00	0.00
10-00-4322	Vehicle Expense	120.00	0.00		0.00		0.00	0.00
10-00-4330	Audit & Accounting	43,195.00	49,707.00		0.00		49,707.00	42,000.00
10-00-4335	Professional Services-General	6,525.00	14,235.00		0.00		14,235.00	0.00
10-00-4337	Recording Services	9,391.00	10,614.00		0.00		10,614.00	17,000.00
10-00-4410	Legal Fees	70,429.00	102,912.00		0.00		102,912.00	84,000.00
10-00-4500	Engineering	106,312.00	94,824.00		0.00		94,824.00	109,000.00
10-00-4520	Permit Review & Inspection	160,544.00	165,084.00		0.00		165,084.00	135,000.00
10-00-4540	Permit & Grant Database	0.00	23,500.00		0.00		23,500.00	0.00
10-00-4600	Construction Expense	27.00	0.00		0.00		0.00	0.00
10-00-4635	Equipment	1,187.00	3,115.00		0.00		3,115.00	0.00
10-00-4800	CAC Expense	1,333.00	743.00		0.00		743.00	5,000.00
10-00-4810	TAC Expense	626.00	0.00		0.00		0.00	0.00
10-00-4910	Bank Charges	0.00	48.00		0.00		48.00	0.00
Subtotal [51430] General Gov't- Administration - Secretarial		1,142,659.00	1,158,632.00		0.00		1,158,632.00	1,196,000.00
Subgroup : [5200C Programs								
20-01-4290	Legal Notices	0.00	1,385.00		0.00		1,385.00	0.00
20-01-4410	Legal Expense	31,353.00	15,205.00		0.00		15,205.00	5,000.00
20-02-4205	Meeting Supplies/Expense	0.00	0.00		0.00		0.00	85,000.00
20-02-4245	Dues	0.00	50,106.00		0.00		50,106.00	0.00
20-02-4250	Publications	1,306.00	498.00		0.00		498.00	0.00
20-02-4260	Miscellaneous Expense	317.00	0.00		0.00		0.00	0.00
20-02-4280	Postage	1,618.00	685.00		0.00		685.00	0.00
20-02-4322	Vehicle Expense	0.00	4,400.00		0.00		4,400.00	0.00
20-02-4335	Professional Services	57,887.00	0.00		0.00		0.00	0.00
20-02-4530	Lab Analysis	2,961.00	1,440.00		0.00		1,440.00	0.00
20-03-4100	Wages	4,713.00	20,139.00		0.00		20,139.00	200,000.00
20-03-4120	PERA Expense	330.00	1,462.00		0.00		1,462.00	0.00
20-03-4130	Payroll Taxes	359.00	1,541.00		0.00		1,541.00	0.00
20-03-4200	Office Supplies	0.00	52.00		0.00		52.00	0.00
20-03-4275	Public Information & Education	0.00	75.00		0.00		75.00	0.00
20-03-4290	Legal Notices	666.00	1,399.00		0.00		1,399.00	0.00
20-03-4335	Professional Services	3,967.00	21,497.00		0.00		21,497.00	0.00
20-03-4350	Grant Expense	53,407.00	93,656.00		0.00		93,656.00	0.00
20-03-4410	Legal Fees	653.00	875.00		0.00		875.00	0.00
20-03-4500	Engineering-Cost Share	1,037.00	833.00		0.00		833.00	0.00
20-05-4100	Wages	24,378.00	50,851.00		0.00		50,851.00	192,000.00
20-05-4120	PERA Expense	405.00	2,089.00		0.00		2,089.00	0.00
20-05-4130	Payroll Taxes	1,786.00	3,890.00		0.00		3,890.00	0.00
20-05-4200	Office Supplies	267.00	255.00		0.00		255.00	0.00
20-05-4201	Supplies-Field	12,197.00	13,942.00		0.00		13,942.00	0.00
20-05-4203	Computer Software	1,010.00	150.00		0.00		150.00	0.00
20-05-4260	Miscellaneous	3,864.00	12,189.00		0.00		12,189.00	0.00
20-05-4265	Training & Education	2,600.00	165.00		0.00		165.00	0.00
20-05-4270	Community Resiliency	0.00	0.00		0.00		0.00	50,000.00
20-05-4275	Public Information & Education	80.00	0.00		0.00		0.00	0.00
20-05-4280	Postage	518.00	246.00		0.00		246.00	0.00
20-05-4290	Legal Notices	0.00	1,142.00		0.00		1,142.00	0.00
20-05-4320	Staff Travel	430.00	1,805.00		0.00		1,805.00	0.00
20-05-4321	Staff Expense	0.00	529.00		0.00		529.00	0.00
20-05-4322	Vehicle Expense	2,342.00	2,042.00		0.00		2,042.00	0.00
20-05-4335	Professional Services	5,145.00	5,946.00		0.00		5,946.00	0.00
20-05-4345	Events	7,250.00	0.00		0.00		0.00	0.00
20-05-4500	Engineering-Data Collection	76,671.00	62,632.00		0.00		62,632.00	0.00
20-05-4520	Permit Review & Inspection	516.00	701.00		0.00		701.00	0.00
20-05-4630	Lab Analysis	37,107.00	35,789.00		0.00		35,789.00	0.00
20-05-4650	Repairs & Maintenance	121.00	276.00		0.00		276.00	0.00
20-07-4500	Engineering-Comm.Resilience	34,870.00	27,072.00		0.00		27,072.00	0.00
20-08-4100	Wages	13,505.00	29,057.00		0.00		29,057.00	123,000.00
20-08-4120	PERA Expense	335.00	1,640.00		0.00		1,640.00	0.00
20-08-4130	Payroll Taxes	930.00	2,247.00		0.00		2,247.00	0.00
20-08-4200	Office Supplies	1,067.00	1,012.00		0.00		1,012.00	0.00
20-08-4203	Computer Software	1,770.00	1,804.00		0.00		1,804.00	0.00
20-08-4205	Meeting Supplies/Expense	493.00	0.00		0.00		0.00	0.00
20-08-4208	Printing	6,094.00	2,584.00		0.00		2,584.00	0.00
20-08-4245	Dues	3,770.00	4,762.00		0.00		4,762.00	0.00
20-08-4250	Publications	7,035.00	1,082.00		0.00		1,082.00	0.00
20-08-4260	Miscellaneous Expense	8,152.00	12,061.00		0.00		12,061.00	0.00
20-08-4265	Training & Education	4,846.00	567.00		0.00		567.00	0.00
20-08-4275	Public Education & Information	10,395.00	3,675.00		0.00		3,675.00	0.00
20-08-4280	Postage	548.00	0.00		0.00		0.00	0.00
20-08-4320	Staff Travel	1,092.00	146.00		0.00		146.00	0.00
20-08-4321	Staff Expense	1,298.00	25.00		0.00		25.00	0.00
20-08-4322	Vehicle Expense	986.00	0.00		0.00		0.00	0.00
20-08-4335	Professional Services	8,427.00	18,754.00		0.00		18,754.00	0.00
20-08-4345	Events	11,721.00	0.00		0.00		0.00	0.00
20-08-4350	Grant Expense	5,431.00	5,250.00		0.00		5,250.00	0.00
20-08-4500	Engineering-Education	7,478.00	4,362.00		0.00		4,362.00	0.00
20-08-4635	Equipment	4,523.00	3,074.00		0.00		3,074.00	0.00
20-08-4650	Repairs & Maintenance	550.00	110.00		0.00		110.00	0.00
20-09-4335	Professional Services	25,238.00	37,149.00		0.00		37,149.00	42,000.00
20-10-4500	Engineering-Repair/Maint.	9,276.00	8,957.00		0.00		8,957.00	100,000.00
20-10-4600	Construction Expense	0.00	7,712.00		0.00		7,712.00	0.00
20-10-4650	Repairs & Maintenance	0.00	38,520.00		0.00		38,520.00	0.00
20-13-4100	Wages	4,310.00	3,047.00		0.00		3,047.00	50,000.00

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPRef >	FINAL 12/31/2020	Bud 12/31/2020
20-13-4120	PERA Expense	5.00	383.00		0.00		383.00	0.00
20-13-4130	Payroll Taxes	312.00	257.00		0.00		257.00	0.00
20-13-4201	Supplies - Field	52.00	138.00		0.00		138.00	0.00
20-13-4203	Computer Software	1,010.00	2,864.00		0.00		2,864.00	0.00
20-13-4205	Meeting Supplies/Expense	0.00	875.00		0.00		875.00	0.00
20-13-4208	Printing	830.00	0.00		0.00		0.00	0.00
20-13-4260	Miscellamepis Expense	43.00	0.00		0.00		0.00	0.00
20-13-4265	Training & Education	375.00	282.00		0.00		282.00	0.00
20-13-4280	Postage	1,525.00	0.00		0.00		0.00	0.00
20-13-4290	Legal Notices	0.00	569.00		0.00		569.00	0.00
20-13-4320	Staff Travel	0.00	29.00		0.00		29.00	0.00
20-13-4322	Vehicle Expense	120.00	129.00		0.00		129.00	0.00
20-13-4335	Professional Services	0.00	1,843.00		0.00		1,843.00	0.00
20-13-4345	Events	229.00	0.00		0.00		0.00	0.00
20-13-4500	Engineering-Wetland	494.00	41,112.00		0.00		41,112.00	0.00
20-14-4245	Dues	0.00	120.00		0.00		120.00	0.00
20-14-4265	Training & Education	250.00	0.00		0.00		0.00	50,000.00
20-14-4500	Engineering-Groundwater	0.00	186.00		0.00		186.00	0.00
20-15-4275	Public Information & Education	92.00	0.00		0.00		0.00	0.00
20-15-4335	Professional Services	23,947.00	40,227.00		0.00		40,227.00	75,000.00
20-15-4345	Events	24.00	0.00		0.00		0.00	0.00
20-15-4500	Engineering-Lake Veg.	0.00	9,328.00		0.00		9,328.00	0.00
20-16-4335	Professional Services	0.00	17,087.00		0.00		17,087.00	0.00
20-16-4500	Engineering-Oppor.Proj.	12,499.00	2,934.00		0.00		2,934.00	100,000.00
20-18-4260	Miscellaneous Expense	44.00	0.00		0.00		0.00	0.00
20-18-4335	Professional Services	26,063.00	20,899.00		0.00		20,899.00	20,000.00
20-18-4530	Lab Analysis	0.00	991.00		0.00		991.00	0.00
20-18-4600	Construction Expense	0.00	10,931.00		0.00		10,931.00	0.00
20-19-4100	Wages	3,366.00	506.00		0.00		506.00	0.00
20-19-4120	PERA Expense	0.00	111.00		0.00		111.00	0.00
20-19-4130	Payroll Taxes	258.00	39.00		0.00		39.00	0.00
20-19-4260	Miscellaneous Expense	143.00	0.00		0.00		0.00	0.00
20-19-4320	Staff Travel	16.00	162.00		0.00		162.00	0.00
20-19-4335	Professional Services	2,106.00	20,000.00		0.00		20,000.00	0.00
20-19-4345	Events	82.00	0.00		0.00		0.00	0.00
Subtotal [52000] Programs		585,306.00	796,558.00		0.00		796,558.00	1,092,000.00
Subgroup : [5401] Capital Outlay - program								
20-02-4635	Equipment	0.00	161.00		0.00		161.00	0.00
20-03-4635	Equipment	3,317.00	0.00		0.00		0.00	0.00
20-05-4635	Equipment	26,884.00	12,564.00		0.00	1603	12,564.00	0.00
20-13-4635	Equipment	20,283.00	3,301.00		0.00		3,301.00	0.00
Subtotal [5401] Capital Outlay - program		50,484.00	16,026.00		0.00		16,026.00	0.00
Subgroup : [5402] Capital Outlay - Project								
30-03-4660	Real Estate	539,079.00	0.00		0.00		0.00	0.00
Subtotal [5402] Capital Outlay - Project		539,079.00	0.00		0.00		0.00	0.00
Total [05] General Fund		0.00	0.00		0.00		0.00	(100,000.00)
Group : [999] Conversion Fund								
Subgroup : [1569] Deferred Outflows								
99-00-1569	Deferred Outflows of Pension Resources (DC)	120,605.00	120,605.00		0.00	2156	112,406.00	0.00
Subtotal [1569] Deferred Outflows		120,605.00	120,605.00		0.00		112,406.00	0.00
Subgroup : [1600] Non Depreciable								
99-00-1725	Capital assets - Nondepreciable	627,043.00	627,043.00		0.00	1603	627,043.00	0.00
Subtotal [1600] Non Depreciable		627,043.00	627,043.00		0.00		627,043.00	0.00
Subgroup : [1610] Depreciable Assets								
99-00-1730	Equipment	210,853.00	210,853.00		0.00	1603	210,853.00	0.00
99-00-1740	Intangibles	34,571.00	34,571.00		0.00	1603	34,571.00	0.00
Subtotal [1610] Depreciable Assets		245,424.00	245,424.00		0.00		245,424.00	0.00
Subgroup : [1620] Accumulated depreciation								
99-00-1750	Accumulated Depreciation	(103,946.00)	(103,946.00)		0.00	1603	(133,892.00)	0.00
Subtotal [1620] Accumulated depreciation		(103,946.00)	(103,946.00)		0.00		(133,892.00)	0.00
Subgroup : [2100] Taxes								
99-00-2220	Allow for Uncollectable Taxes	36,003.00	36,003.00		0.00	1153	34,792.00	0.00
Subtotal [2100] Taxes		36,003.00	36,003.00		0.00		34,792.00	0.00
Subgroup : [2170] Comp Abs - Current								
99-00-2200	Compensated Absences - Current	(24,538.00)	(24,538.00)		0.00	2103	(31,068.00)	0.00
Subtotal [2170] Comp Abs - Current		(24,538.00)	(24,538.00)		0.00		(31,068.00)	0.00
Subgroup : [2175] Compensated Abs - Noncurrent								
99-00-2300	Compensated Absences - Noncurrent	(23,878.00)	(23,878.00)		0.00	2103	(19,908.00)	0.00
Subtotal [2175] Compensated Abs - Noncurrent		(23,878.00)	(23,878.00)		0.00		(19,908.00)	0.00
Subgroup : [2229] Deferred Inflows								
99-00-2299	Deferred Inflows of Pension Resources (DIR)	(58,865.00)	(58,865.00)		0.00	2156	(18,611.00)	0.00
Subtotal [2229] Deferred Inflows		(58,865.00)	(58,865.00)		0.00		(18,611.00)	0.00
Subgroup : [2399] Pension Liability								
99-00-2399	Pension Liability	(304,083.00)	(304,083.00)		0.00	2156	(359,727.00)	0.00
Subtotal [2399] Pension Liability		(304,083.00)	(304,083.00)		0.00		(359,727.00)	0.00
Subgroup : [2900] Fund Balance								
99-00-2900	Fund Balance	(4,842.00)	(513,765.00)		0.00	2502	(513,765.00)	0.00
Subtotal [2900] Fund Balance		(4,842.00)	(513,765.00)		0.00		(513,765.00)	0.00
Subgroup : [3100] Taxes								
99-00-3100	Property Taxes	(6,592.00)	0.00		0.00	1153	1,211.00	0.00
Subtotal [3100] Taxes		(6,592.00)	0.00		0.00		1,211.00	0.00
Subgroup : [3349] Pension revenue								
99-00-3349	Pension Revenue	(711.00)	0.00		0.00		(968.00)	0.00
Subtotal [3349] Pension revenue		(711.00)	0.00		0.00		(968.00)	0.00
Subgroup : [4000] Depreciation								
99-41-4000	Depreciation Expense	7,551.00	0.00		0.00	1603	7,551.00	0.00

Account	Description	1st PP-FINAL	UNADJ	JE Ref #	AJE	WPreF >	FINAL	Bud
		12/31/2019	12/31/2020				12/31/2020	12/31/2020
99-42-4000	Depreciation Expense	22,395.00	0.00		0.00	1603	22,395.00	0.00
Subtotal [4000] Depreciation		29,946.00	0.00		0.00		29,946.00	0.00
Subgroup : [4100] Payroll Expens								
99-41-1290	Pension Expense	42,141.00	0.00		0.00		24,557.00	0.00
Subtotal [4100] Payroll Expens		42,141.00	0.00		0.00		24,557.00	0.00
Subgroup : [4150] Comp Abs								
99-41-1000	Wage Expense	7,915.00	0.00		0.00		2,560.00	0.00
Subtotal [4150] Comp Abs		7,915.00	0.00		0.00		2,560.00	0.00
Subgroup : [5000] Capital Outlay								
99-42-5000	Capital Outlay	(32,613.00)	0.00		0.00		0.00	0.00
99-43-5000	Capital Outlay	(549,009.00)	0.00		0.00		0.00	0.00
Subtotal [5000] Capital Outlay		(581,622.00)	0.00		0.00		0.00	0.00
Total [999] Conversion Fund		0.00	0.00		0.00		0.00	0.00

Client: 47441 - Riley Purgatory Bluff Creek Watershed District
 Engagement: 2020A - Riley Purgatory Bluff Creek WD
 Period Ending: 12/31/2020
 Trial Balance: TB
 Workpaper:

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
Group : [1000] Cash and temporary investments								
Subgroup : [GOV, Governmental Activities]								
10-00-1001	General Checking-Old National	2,135,079.00	2,514,972.00		0.00	1053	2,514,972.00	0.00
10-00-1002	Checking-Old National/BMW	1,373,256.00	23,256.00		0.00	1053	23,256.00	0.00
10-00-1035	Investments-Standing Cash	27,235.00	3,037,727.00		0.00	1053	3,037,727.00	0.00
10-00-1040	Investments-Wells Fargo	4,404,945.00	996,214.00		0.00	1053	996,214.00	0.00
Subtotal [GOVACT] Governmental Activities		7,940,515.00	6,572,169.00		0.00		6,572,169.00	0.00
Total [1000] Cash and temporary investments		7,940,515.00	6,572,169.00		0.00		6,572,169.00	0.00
Group : [1200] Accounts Receivable								
Subgroup : [GOV, Governmental Activities]								
10-00-1200	Accounts Receivable	1,591.00	6,712.00		0.00	1203	6,712.00	0.00
Subtotal [GOVACT] Governmental Activities		1,591.00	6,712.00		0.00		6,712.00	0.00
Total [1200] Accounts Receivable		1,591.00	6,712.00		0.00		6,712.00	0.00
Group : [1205] Due From Other Governments								
Subgroup : [GOV, Governmental Activities]								
10-00-1300	Due From Other Govt.	129,117.00	473,880.00		0.00	1203	473,880.00	0.00
Subtotal [GOVACT] Governmental Activities		129,117.00	473,880.00		0.00		473,880.00	0.00
Total [1205] Due From Other Governments		129,117.00	473,880.00		0.00		473,880.00	0.00
Group : [1210] Accrued Interest Receivable								
Subgroup : [GOV, Governmental Activities]								
10-00-1150	Accrued Investment Interest	21,875.00	8.00		0.00	1053	8.00	0.00
Subtotal [GOVACT] Governmental Activities		21,875.00	8.00		0.00		8.00	0.00
Total [1210] Accrued Interest Receivable		21,875.00	8.00		0.00		8.00	0.00
Group : [1400] Taxes Receivable								
Subgroup : [GOV, Governmental Activities]								
10-00-1400	Taxes Receivable	18,954.00	28,584.00		0.00	1153	28,584.00	0.00
10-00-1450	Taxes Receivable-Delinquent	36,003.00	36,003.00		(1,211.00)	1153	34,792.00	0.00
Subtotal [GOVACT] Governmental Activities		54,957.00	64,587.00	AJE - 3	(1,211.00)		63,376.00	0.00
Subgroup : [CON] Conversion Fund								
99-00-2220	Allow for Uncollectable Taxes	36,003.00	36,003.00		0.00	1153	34,792.00	0.00
Subtotal [CONV] Conversion Fund		36,003.00	36,003.00		0.00		34,792.00	0.00
Total [1400] Taxes Receivable		90,960.00	100,590.00		(1,211.00)		98,168.00	0.00
Group : [1460] Prepays								
Subgroup : [GOV, Governmental Activities]								
10-00-1460	Pre-Paid Expense	24,742.00	31,914.00		0.00	1501	31,914.00	0.00
10-00-1480	Security Deposits	7,244.00	7,244.00		0.00	1501	7,244.00	0.00
Subtotal [GOVACT] Governmental Activities		31,986.00	39,158.00		0.00		39,158.00	0.00
Total [1460] Prepays		31,986.00	39,158.00		0.00		39,158.00	0.00
Group : [1569] Deferred Outflows								
Subgroup : [CON] Conversion Fund								
99-00-1569	Deferred Outflows of Pension Resources (D	120,605.00	120,605.00		0.00	2156	112,406.00	0.00
Subtotal [CONV] Conversion Fund		120,605.00	120,605.00		0.00		112,406.00	0.00
Total [1569] Deferred Outflows		120,605.00	120,605.00		0.00		112,406.00	0.00
Group : [1600] Non Depreciable Assets								
Subgroup : [CON] Conversion Fund								
99-00-1725	Capital assets - Nondepreciable	627,043.00	627,043.00		0.00	1603	627,043.00	0.00
Subtotal [CONV] Conversion Fund		627,043.00	627,043.00		0.00		627,043.00	0.00
Total [1600] Non Depreciable Assets		627,043.00	627,043.00		0.00		627,043.00	0.00
Group : [1610] Depreciable Assets								
Subgroup : [CON] Conversion Fund								
99-00-1730	Equipment	210,853.00	210,853.00		0.00	1603	210,853.00	0.00
99-00-1740	Intangibles	34,571.00	34,571.00		0.00	1603	34,571.00	0.00
Subtotal [CONV] Conversion Fund		245,424.00	245,424.00		0.00		245,424.00	0.00
Total [1610] Depreciable Assets		245,424.00	245,424.00		0.00		245,424.00	0.00
Group : [1620] Accumulated Depreciation								
Subgroup : [CON] Conversion Fund								
99-00-1750	Accumulated Depreciation	(103,946.00)	(103,946.00)		0.00	1603	(133,892.00)	0.00
Subtotal [CONV] Conversion Fund		(103,946.00)	(103,946.00)		0.00		(133,892.00)	0.00
Total [1620] Accumulated Depreciation		(103,946.00)	(103,946.00)		0.00		(133,892.00)	0.00
Group : [2100] Accounts Payable								
Subgroup : [GOV, Governmental Activities]								
10-00-2100	Accounts Payable	(606,828.00)	(323,622.00)		27,617.00	2053	(239,580.00)	0.00
					22,010.00			
					5,607.00			
10-00-2150	Retainage Payable	(12,521.00)	(32,597.00)		0.00	2053	(32,597.00)	0.00
Subtotal [GOVACT] Governmental Activities		(619,349.00)	(356,219.00)		27,617.00		(272,177.00)	0.00
Total [2100] Accounts Payable		(619,349.00)	(356,219.00)		27,617.00		(272,177.00)	0.00
Group : [2115] Due to Other Governments								
Subgroup : [GOV, Governmental Activities]								
10-00-2160	Due to Other Governments	(61,346.00)	0.00		0.00	2053	(56,425.00)	0.00
Subtotal [GOVACT] Governmental Activities		(61,346.00)	0.00		0.00		(56,425.00)	0.00
Total [2115] Due to Other Governments		(61,346.00)	0.00		0.00		(56,425.00)	0.00
Group : [2125] Deposit Payable								
Subgroup : [GOV, Governmental Activities]								

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
10-00-2330	Permits & Sureties Payable	(909,245.00)	(659,183.00)		0.00	2053	(659,183.00)	0.00
Subtotal [GOVACT] Governmental Activities		(909,245.00)	(659,183.00)		0.00		(659,183.00)	0.00
Total [2125] Deposit Payable		(909,245.00)	(659,183.00)		0.00		(659,183.00)	0.00
Group : [2160] Salaries Payable								
Subgroup : [GOV] Governmental Activities								
10-00-2200	Salaries Payable	(19,462.00)	(21,512.00)		0.00	2103	(21,512.00)	0.00
10-00-2210	Federal Withholding	(467.00)	(571.00)		0.00	2102	(571.00)	0.00
10-00-2220	FICA/Medicare	(861.00)	(975.00)		0.00	2102	(975.00)	0.00
10-00-2230	State Withholding	(240.00)	(290.00)		0.00	2102	(290.00)	0.00
Subtotal [GOVACT] Governmental Activities		(21,030.00)	(23,348.00)		0.00		(23,348.00)	0.00
Total [2160] Salaries Payable		(21,030.00)	(23,348.00)		0.00		(23,348.00)	0.00
Group : [2170] Compensated Abs - Current								
Subgroup : [CON] Conversion Fund								
99-00-2200	Compensated Absences - Current	(24,538.00)	(24,538.00)		0.00	2103	(31,068.00)	0.00
Subtotal [CONV] Conversion Fund		(24,538.00)	(24,538.00)		0.00		(31,068.00)	0.00
Total [2170] Compensated Abs - Current		(24,538.00)	(24,538.00)		0.00		(31,068.00)	0.00
Group : [2175] Compensated Abs - NonCurrent								
Subgroup : [CON] Conversion Fund								
99-00-2300	Compensated Absences - Noncurrent	(23,878.00)	(23,878.00)		0.00	2103	(19,908.00)	0.00
Subtotal [CONV] Conversion Fund		(23,878.00)	(23,878.00)		0.00		(19,908.00)	0.00
Total [2175] Compensated Abs - NonCurrent		(23,878.00)	(23,878.00)		0.00		(19,908.00)	0.00
Group : [2229] Deferred Inflows								
Subgroup : [CON] Conversion Fund								
99-00-2299	Deferred Inflows of Pension Resources (DIF	(58,865.00)	(58,865.00)		0.00	2156	(18,611.00)	0.00
Subtotal [CONV] Conversion Fund		(58,865.00)	(58,865.00)		0.00		(18,611.00)	0.00
Total [2229] Deferred Inflows		(58,865.00)	(58,865.00)		0.00		(18,611.00)	0.00
Group : [2399] Pension Liability								
Subgroup : [CON] Conversion Fund								
99-00-2399	Pension Liability	(304,083.00)	(304,083.00)		0.00	2156	(359,727.00)	0.00
Subtotal [CONV] Conversion Fund		(304,083.00)	(304,083.00)		0.00		(359,727.00)	0.00
Total [2399] Pension Liability		(304,083.00)	(304,083.00)		0.00		(359,727.00)	0.00
Group : [2400] Unearned Revenues								
Subgroup : [GOV] Governmental Activities								
10-00-2400	Deferred Revenue	(36,003.00)	(36,003.00)		1,211.00	2202	(34,792.00)	0.00
				AJE - 3	1,211.00			
10-00-2401	Unearned Revenue-Grants	(199,470.00)	(181,331.00)		(1,822.00)	2202	(183,153.00)	0.00
				AJE - 1	(1,822.00)			
Subtotal [GOVACT] Governmental Activities		(235,473.00)	(217,334.00)		(611.00)		(217,945.00)	0.00
Total [2400] Unearned Revenues		(235,473.00)	(217,334.00)		(611.00)		(217,945.00)	0.00
Group : [2900] Fund Balances								
Subgroup : [GOV] Governmental Activities								
10-00-2900	Fund Balance-General	(5,166,687.00)	(6,333,598.00)		0.00	2502	(6,333,598.00)	0.00
Subtotal [GOVACT] Governmental Activities		(5,166,687.00)	(6,333,598.00)		0.00		(6,333,598.00)	0.00
Subgroup : [CON] Conversion Fund								
99-00-2900	Fund Balance	(4,842.00)	(513,765.00)		0.00	2502	(513,765.00)	0.00
Subtotal [CONV] Conversion Fund		(4,842.00)	(513,765.00)		0.00		(513,765.00)	0.00
Total [2900] Fund Balances		(5,171,529.00)	(6,847,363.00)		0.00		(6,847,363.00)	0.00
Group : [3100] Taxes								
Subgroup : [GOV] Governmental Activities								
10-00-3100	Tax Levy-Hennepin County	(2,749,937.00)	(2,835,533.00)		0.00	1153	(2,835,533.00)	(3,703,000.00)
10-00-3101	Tax Levy-Carver County	(831,548.00)	(868,350.00)		0.00	1153	(868,350.00)	0.00
Subtotal [GOVACT] Governmental Activities		(3,581,485.00)	(3,703,883.00)		0.00		(3,703,883.00)	(3,703,000.00)
Subgroup : [CON] Conversion Fund								
99-00-3100	Property Taxes	(6,592.00)	0.00		0.00	1153	1,211.00	0.00
Subtotal [CONV] Conversion Fund		(6,592.00)	0.00		0.00		1,211.00	0.00
Total [3100] Taxes		(3,588,077.00)	(3,703,883.00)		0.00		(3,702,672.00)	(3,703,000.00)
Group : [3700] Interest Earnings								
Subgroup : [GOV] Governmental Activities								
10-00-3700	Interest Revenue	(109,652.00)	(29,900.00)		0.00	1052	(29,900.00)	(75,000.00)
Subtotal [GOVACT] Governmental Activities		(109,652.00)	(29,900.00)		0.00		(29,900.00)	(75,000.00)
Total [3700] Interest Earnings		(109,652.00)	(29,900.00)		0.00		(29,900.00)	(75,000.00)
Group : [3900] Miscellaneous Revenue								
Subgroup : [GOV] Governmental Activities								
10-00-3205	Market Value Credit	(58.00)	(70.00)		0.00	1353	(70.00)	0.00
10-00-3800	Miscellaneous Revenue	(1,572.00)	(3,873.00)		0.00		(3,873.00)	0.00
10-00-3805	Reimbursements	0.00	(10,956.00)		0.00		(10,956.00)	0.00
20-03-3800	Miscellaneous Income	(2.00)	0.00		0.00		0.00	0.00
20-05-3500	Income-Data Collection	(2,700.00)	0.00		0.00		0.00	0.00
20-05-3800	Miscellaneous Income	(56.00)	0.00		0.00		0.00	0.00
20-08-3800	Miscellaneous Income	(200.00)	0.00		0.00		0.00	0.00
Subtotal [GOVACT] Governmental Activities		(4,588.00)	(14,899.00)		0.00		(14,899.00)	0.00
Subgroup : [CON] Conversion Fund								
99-00-3349	Pension Revenue	(711.00)	0.00		0.00		(968.00)	0.00
Subtotal [CONV] Conversion Fund		(711.00)	0.00		0.00		(968.00)	0.00
Total [3900] Miscellaneous Revenue		(5,299.00)	(14,899.00)		0.00		(15,867.00)	0.00
Group : [41000] General government								
Subgroup : [EXP] Expenses								
10-00-4000	Manager Per Diem	16,100.00	20,500.00		0.00		20,500.00	20,000.00
10-00-4010	Manager Expense	9,022.00	2,231.00		0.00		2,231.00	0.00
10-00-4100	Wages	405,662.00	373,163.00		0.00		373,163.00	600,000.00

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
10-00-4110	Benefits	58,151.00	60,642.00		0.00		60,642.00	0.00
10-00-4120	PERA Expense	34,133.00	27,916.00		0.00		27,916.00	0.00
10-00-4130	Payroll Taxes	33,193.00	28,975.00		0.00		28,975.00	0.00
10-00-4140	Payroll Taxes-Unemployment	534.00	615.00		0.00		615.00	0.00
10-00-4200	Office Supplies	5,038.00	13,565.00		0.00		13,565.00	150,000.00
10-00-4201	Supplies-Field	131.00	441.00		0.00		441.00	0.00
10-00-4203	Computer Software	4,568.00	3,646.00		0.00		3,646.00	0.00
10-00-4205	Meeting Supplies/Expense	127.00	805.00		0.00		805.00	0.00
10-00-4208	Printing	1,977.00	1,905.00		0.00		1,905.00	0.00
10-00-4210	Rent	93,593.00	90,817.00		0.00	2251	90,817.00	0.00
10-00-4215	Office Building Maintenance	10,228.00	13,606.00		0.00		13,606.00	0.00
10-00-4220	Office Building Utilities	9,133.00	9,165.00		0.00		9,165.00	0.00
10-00-4240	Telecommunications	8,950.00	9,318.00		0.00		9,318.00	0.00
10-00-4245	Dues	11,187.00	10,959.00		0.00		10,959.00	14,000.00
10-00-4250	Publications	3,724.00	0.00		0.00		0.00	0.00
10-00-4260	Miscellaneous-General	4,056.00	5,176.00		0.00		5,176.00	0.00
10-00-4265	Training & Education	1,832.00	1,861.00		0.00		1,861.00	0.00
10-00-4270	Insurance & Bonds	16,186.00	11,223.00		0.00		11,223.00	20,000.00
10-00-4280	Postage	221.00	1,410.00		0.00		1,410.00	0.00
10-00-4290	Legal Notices	2,205.00	190.00		0.00		190.00	0.00
10-00-4320	Staff Travel	2,412.00	502.00		0.00		502.00	0.00
10-00-4321	Staff Expense	10,607.00	5,219.00		0.00		5,219.00	0.00
10-00-4322	Vehicle Expense	120.00	0.00		0.00		0.00	0.00
10-00-4330	Audit & Accounting	43,195.00	49,707.00		0.00		49,707.00	42,000.00
10-00-4335	Professional Services-General	6,525.00	14,235.00		0.00		14,235.00	0.00
10-00-4337	Recording Services	9,391.00	10,614.00		0.00		10,614.00	17,000.00
10-00-4410	Legal Fees	70,429.00	102,912.00		0.00		102,912.00	84,000.00
10-00-4500	Engineering	106,312.00	94,824.00		0.00		94,824.00	109,000.00
10-00-4520	Permit Review & Inspection	160,544.00	165,084.00		0.00		165,084.00	135,000.00
10-00-4540	Permit & Grant Database	0.00	23,500.00		0.00		23,500.00	0.00
10-00-4600	Construction Expense	27.00	0.00		0.00		0.00	0.00
10-00-4635	Equipment	1,187.00	3,115.00		0.00		3,115.00	0.00
10-00-4800	CAC Expense	1,333.00	743.00		0.00		743.00	5,000.00
10-00-4810	TAC Expense	626.00	0.00		0.00		0.00	0.00
10-00-4910	Bank Charges	0.00	48.00		0.00		48.00	0.00
99-41-1000	Wage Expense	7,915.00	0.00		0.00		2,560.00	0.00
99-41-1290	Pension Expense	42,141.00	0.00		0.00		24,557.00	0.00
99-41-4000	Depreciation Expense	7,551.00	0.00		0.00	1603	7,551.00	0.00
Subtotal [EXP] Expenses		1,200,266.00	1,158,632.00		0.00		1,193,300.00	1,196,000.00
Subgroup : [CHG] Charges for Services								
10-00-3400	Permit Fees	(44,344.00)	(71,340.00)		0.00		(71,340.00)	(25,000.00)
10-00-3500	Data Collection Income	0.00	(300.00)		0.00		(300.00)	0.00
Subtotal [CHG] Charges for Services		(44,344.00)	(71,640.00)		0.00		(71,640.00)	(25,000.00)
Subgroup : [OPEI] Operating Grants and Contributions								
10-00-3300	Grants-Income	0.00	(4,500.00)		4,500.00		0.00	0.00
				AJE - 1	4,500.00			
10-00-3302	Partnerships	0.00	(3,200.00)		0.00		(3,200.00)	0.00
Subtotal [OPERGR] Operating Grants and Contributions		0.00	(7,700.00)		4,500.00		(3,200.00)	0.00
Total [41000] General government		1,155,922.00	1,079,292.00		4,500.00		1,118,460.00	1,171,000.00
Group : [42000] Programs								
Subgroup : [EXP] Expenses								
20-01-4290	Legal Notices	0.00	1,385.00		0.00		1,385.00	0.00
20-01-4410	Legal Expense	31,353.00	15,205.00		0.00		15,205.00	5,000.00
20-02-4205	Meeting Supplies/Expense	0.00	0.00		0.00		0.00	85,000.00
20-02-4245	Dues	0.00	50,106.00		0.00		50,106.00	0.00
20-02-4250	Publications	1,306.00	498.00		0.00		498.00	0.00
20-02-4260	Miscellaneous Expense	317.00	0.00		0.00		0.00	0.00
20-02-4280	Postage	1,618.00	685.00		0.00		685.00	0.00
20-02-4322	Vehicle Expense	0.00	4,400.00		0.00		4,400.00	0.00
20-02-4335	Professional Services	57,887.00	0.00		0.00		0.00	0.00
20-02-4530	Lab Analysis	2,961.00	1,440.00		0.00		1,440.00	0.00
20-02-4635	Equipment	0.00	161.00		0.00		161.00	0.00
20-03-4100	Wages	4,713.00	20,139.00		0.00		20,139.00	200,000.00
20-03-4120	PERA Expense	330.00	1,462.00		0.00		1,462.00	0.00
20-03-4130	Payroll Taxes	359.00	1,541.00		0.00		1,541.00	0.00
20-03-4200	Office Supplies	0.00	52.00		0.00		52.00	0.00
20-03-4275	Public Information & Education	0.00	75.00		0.00		75.00	0.00
20-03-4290	Legal Notices	666.00	1,399.00		0.00		1,399.00	0.00
20-03-4335	Professional Services	3,987.00	21,497.00		0.00		21,497.00	0.00
20-03-4350	Grant Expense	53,407.00	93,656.00		0.00		93,656.00	0.00
20-03-4410	Legal Fees	653.00	875.00		0.00		875.00	0.00
20-03-4500	Engineering-Cost Share	1,037.00	833.00		0.00		833.00	0.00
20-03-4635	Equipment	3,317.00	0.00		0.00		0.00	0.00
20-05-4100	Wages	24,378.00	50,851.00		0.00		50,851.00	192,000.00
20-05-4120	PERA Expense	405.00	2,089.00		0.00		2,089.00	0.00
20-05-4130	Payroll Taxes	1,786.00	3,890.00		0.00		3,890.00	0.00
20-05-4200	Office Supplies	267.00	255.00		0.00		255.00	0.00
20-05-4201	Supplies-Field	12,197.00	13,942.00		0.00		13,942.00	0.00
20-05-4203	Computer Software	1,010.00	150.00		0.00		150.00	0.00
20-05-4260	Miscellaneous	3,864.00	12,189.00		0.00		12,189.00	0.00
20-05-4265	Training & Education	2,600.00	165.00		0.00		165.00	0.00
20-05-4270	Community Resiliency	0.00	0.00		0.00		0.00	50,000.00
20-05-4275	Public Information & Education	80.00	0.00		0.00		0.00	0.00
20-05-4280	Postage	518.00	246.00		0.00		246.00	0.00
20-05-4290	Legal Notices	0.00	1,142.00		0.00		1,142.00	0.00
20-05-4320	Staff Travel	430.00	1,805.00		0.00		1,805.00	0.00
20-05-4321	Staff Expense	0.00	529.00		0.00		529.00	0.00
20-05-4322	Vehicle Expense	2,342.00	2,042.00		0.00		2,042.00	0.00
20-05-4335	Professional Services	5,145.00	5,946.00		0.00		5,946.00	0.00
20-05-4345	Events	7,250.00	0.00		0.00		0.00	0.00
20-05-4500	Engineering-Data Collection	76,671.00	62,632.00		0.00		62,632.00	0.00
20-05-4520	Permit Review & Inspection	516.00	701.00		0.00		701.00	0.00

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
20-05-4530	Lab Analysis	37,107.00	35,789.00		0.00		35,789.00	0.00
20-05-4635	Equipment	26,884.00	12,564.00		0.00	1603	12,564.00	0.00
20-05-4650	Repairs & Maintenance	121.00	276.00		0.00		276.00	0.00
20-07-4500	Engineering-Comm.Resilience	34,870.00	27,072.00		0.00		27,072.00	0.00
20-08-4100	Wages	13,505.00	29,057.00		0.00		29,057.00	123,000.00
20-08-4120	PERA Expense	335.00	1,640.00		0.00		1,640.00	0.00
20-08-4130	Payroll Taxes	930.00	2,247.00		0.00		2,247.00	0.00
20-08-4200	Office Supplies	1,067.00	1,012.00		0.00		1,012.00	0.00
20-08-4203	Computer Software	1,770.00	1,804.00		0.00		1,804.00	0.00
20-08-4205	Meeting Supplies/Expense	493.00	0.00		0.00		0.00	0.00
20-08-4208	Printing	6,094.00	2,584.00		0.00		2,584.00	0.00
20-08-4245	Dues	3,770.00	4,762.00		0.00		4,762.00	0.00
20-08-4250	Publications	7,035.00	1,082.00		0.00		1,082.00	0.00
20-08-4260	Miscellaneous Expense	8,152.00	12,061.00		0.00		12,061.00	0.00
20-08-4265	Training & Education	4,846.00	567.00		0.00		567.00	0.00
20-08-4275	Public Education & Information	10,395.00	3,675.00		0.00		3,675.00	0.00
20-08-4280	Postage	548.00	0.00		0.00		0.00	0.00
20-08-4320	Staff Travel	1,092.00	146.00		0.00		146.00	0.00
20-08-4321	Staff Expense	1,298.00	25.00		0.00		25.00	0.00
20-08-4322	Vehicle Expense	986.00	0.00		0.00		0.00	0.00
20-08-4335	Professional Services	8,427.00	18,754.00		0.00		18,754.00	0.00
20-08-4345	Events	11,721.00	0.00		0.00		0.00	0.00
20-08-4350	Grant Expense	5,431.00	5,250.00		0.00		5,250.00	0.00
20-08-4500	Engineering-Education	7,478.00	4,362.00		0.00		4,362.00	0.00
20-08-4635	Equipment	4,523.00	3,074.00		0.00		3,074.00	0.00
20-08-4650	Repairs & Maintenance	550.00	110.00		0.00		110.00	0.00
20-09-4335	Professional Services	25,238.00	37,149.00		0.00		37,149.00	42,000.00
20-10-4500	Engineering-Repair/Maint.	9,276.00	8,957.00		0.00		8,957.00	100,000.00
20-10-4600	Construction Expense	0.00	7,712.00		0.00		7,712.00	0.00
20-10-4650	Repairs & Maintenance	0.00	38,520.00		0.00		38,520.00	0.00
20-13-4100	Wages	4,310.00	3,047.00		0.00		3,047.00	50,000.00
20-13-4120	PERA Expense	5.00	383.00		0.00		383.00	0.00
20-13-4130	Payroll Taxes	312.00	257.00		0.00		257.00	0.00
20-13-4201	Supplies - Field	52.00	138.00		0.00		138.00	0.00
20-13-4203	Computer Software	1,010.00	2,864.00		0.00		2,864.00	0.00
20-13-4205	Meeting Supplies/Expense	0.00	875.00		0.00		875.00	0.00
20-13-4208	Printing	830.00	0.00		0.00		0.00	0.00
20-13-4260	Miscellaneous Expense	43.00	0.00		0.00		0.00	0.00
20-13-4265	Training & Education	375.00	282.00		0.00		282.00	0.00
20-13-4280	Postage	1,525.00	0.00		0.00		0.00	0.00
20-13-4290	Legal Notices	0.00	569.00		0.00		569.00	0.00
20-13-4320	Staff Travel	0.00	29.00		0.00		29.00	0.00
20-13-4322	Vehicle Expense	120.00	129.00		0.00		129.00	0.00
20-13-4335	Professional Services	0.00	1,843.00		0.00		1,843.00	0.00
20-13-4345	Events	229.00	0.00		0.00		0.00	0.00
20-13-4500	Engineering-Wetland	494.00	41,112.00		0.00		41,112.00	0.00
20-13-4635	Equipment	20,283.00	3,301.00		0.00		3,301.00	0.00
20-14-4245	Dues	0.00	120.00		0.00		120.00	0.00
20-14-4265	Training & Education	250.00	0.00		0.00		0.00	50,000.00
20-14-4500	Engineering-Groundwater	0.00	186.00		0.00		186.00	0.00
20-15-4275	Public Information & Education	92.00	0.00		0.00		0.00	0.00
20-15-4335	Professional Services	23,947.00	40,227.00		0.00		40,227.00	75,000.00
20-15-4345	Events	24.00	0.00		0.00		0.00	0.00
20-15-4500	Engineering-Lake Veg.	0.00	9,328.00		0.00		9,328.00	0.00
20-16-4335	Professional Services	0.00	17,087.00		0.00		17,087.00	0.00
20-16-4500	Engineering-Oppor.Proj.	12,499.00	2,934.00		0.00		2,934.00	100,000.00
20-18-4260	Miscellaneous Expense	44.00	0.00		0.00		0.00	0.00
20-18-4335	Professional Services	26,063.00	20,899.00		0.00		20,899.00	20,000.00
20-18-4530	Lab Analysis	0.00	991.00		0.00		991.00	0.00
20-18-4600	Construction Expense	0.00	10,931.00		0.00		10,931.00	0.00
20-19-4100	Wages	3,366.00	506.00		0.00		506.00	0.00
20-19-4120	PERA Expense	0.00	111.00		0.00		111.00	0.00
20-19-4130	Payroll Taxes	258.00	39.00		0.00		39.00	0.00
20-19-4260	Miscellaneous Expense	143.00	0.00		0.00		0.00	0.00
20-19-4320	Staff Travel	16.00	162.00		0.00		162.00	0.00
20-19-4335	Professional Services	2,106.00	20,000.00		0.00		20,000.00	0.00
20-19-4345	Events	82.00	0.00		0.00		0.00	0.00
99-42-4000	Depreciation Expense	22,395.00	0.00		0.00	1603	22,395.00	0.00
99-42-5000	Capital Outlay	(32,613.00)	0.00		0.00		0.00	0.00
Subtotal [EXP] Expenses		625,572.00	812,584.00		0.00		834,979.00	1,092,000.00
Subgroup : [OPEI] Operating Grants and Contributions								
20-05-3300	Income-Grants	(5,500.00)	0.00		0.00		0.00	0.00
20-18-3302	Partnerships	(14,000.00)	(14,000.00)		0.00		(14,000.00)	0.00
20-19-3300	Grant Income	(5,970.00)	(18,139.00)		(2,678.00)	1352	(20,817.00)	0.00
				AJE - 1	(2,678.00)			
20-19-3302	Partnerships	0.00	(6,600.00)		0.00		(6,600.00)	0.00
Subtotal [OPERGR] Operating Grants and Contributions		(25,470.00)	(38,739.00)		(2,678.00)		(41,417.00)	0.00
Total [42000] Programs		600,102.00	773,845.00		(2,678.00)		793,562.00	1,092,000.00
Group : [43000] Projects								
Subgroup : [EXP] Expenses								
30-01-4410	Legal Fees	830.00	478.00		0.00		478.00	0.00
30-01-4500	Engineering-Bluff Creek	21,070.00	10,692.00		0.00		10,692.00	0.00
30-01-4600	Construction Expense	204,154.00	54,015.00		(5,607.00)	1603	48,408.00	0.00
				AJE - 2	(5,607.00)			
30-02-4410	Legal Expense	180.00	0.00		0.00		0.00	0.00
30-02-4500	Engineering-Chanhassen HS	1,430.00	0.00		0.00		0.00	0.00
30-03-4220	Office Building Utilities	106.00	0.00		0.00		0.00	0.00
30-03-4260	Miscellaneous Expense	31.00	43.00		0.00		43.00	0.00
30-03-4290	Legal Notices	1,151.00	764.00		0.00		764.00	0.00
30-03-4410	Legal Fees	8,779.00	15,155.00		0.00		15,155.00	0.00
30-03-4500	Engineering-Wetland	0.00	28,637.00		0.00		28,637.00	0.00
30-03-4600	Construction Expense	0.00	48,790.00		0.00	1603	48,790.00	0.00
30-03-4660	Real Estate	539,079.00	0.00		0.00		0.00	0.00

Account	Description	1st PP-FINAL 12/31/2019	UNADJ 12/31/2020	JE Ref #	AJE	WPreF >	FINAL 12/31/2020	Bud 12/31/2020
40-02-4410	Legal Expense	3,491.00	279.00		0.00		279.00	0.00
40-02-4600	Construction Expense	8,004.00	0.00		0.00		0.00	0.00
40-04-4335	Professional Services	0.00	13,863.00		0.00		13,863.00	0.00
40-04-4410	Legal Fees	0.00	1,069.00		0.00		1,069.00	0.00
40-04-4600	Construction Expense	13,415.00	0.00		0.00		0.00	150,000.00
40-05-4410	Legal Fees	5,227.00	5,215.00		0.00		5,215.00	0.00
40-05-4500	Engineering-Riley Creek	36,136.00	42,017.00		0.00		42,017.00	0.00
40-05-4600	Construction Expense	46,274.00	1,932,188.00		(22,010.00)	1603	1,910,178.00	0.00
				AJE - 2	(22,010.00)			
40-06-4335	Professional Services	0.00	253,683.00		0.00		253,683.00	300,000.00
40-06-4410	Legal Fees	0.00	3,171.00		0.00		3,171.00	0.00
40-06-4500	Engineering	0.00	260.00		0.00		260.00	0.00
40-07-4201	Supplies-Field	1,647.00	0.00		0.00		0.00	0.00
40-07-4500	Engineering-Riley	21,119.00	33,039.00		0.00		33,039.00	0.00
40-07-4530	Lab Analysis	3,536.00	813.00		0.00		813.00	0.00
40-07-4635	Equipment	16,237.00	0.00		0.00		0.00	0.00
40-08-4500	engineering Expense	0.00	47,975.00		0.00		47,975.00	0.00
40-08-46000	Construction Expense	0.00	0.00		0.00		0.00	675,000.00
40-09-4290	Legal Notices	0.00	741.00		0.00		741.00	0.00
40-09-4500	Engineering-Middle Riley Creek	0.00	75,797.00		0.00		75,797.00	0.00
40-10-4500	Engineering Expense	0.00	15,853.00		0.00		15,853.00	0.00
40-10-4600	Construction Expense	0.00	0.00		0.00		0.00	150,000.00
40-12-4410	Legal Fees	0.00	4,845.00		0.00		4,845.00	0.00
40-12-4500	Engineering Expense	0.00	48,092.00		0.00		48,092.00	0.00
50-02-4335	Professional Services	0.00	15,101.00		0.00		15,101.00	0.00
50-03-4335	Professional Services	1,666.00	24,880.00		0.00		24,880.00	0.00
50-04-4410	Legal Expense	90.00	0.00		0.00		0.00	0.00
50-05-4410	Legal Expense	1,938.00	3,153.00		0.00		3,153.00	0.00
50-05-4500	Engineering-Silver Lake	10,144.00	45,571.00		0.00		45,571.00	100,000.00
50-06-4410	Legal Fees	113.00	0.00		0.00		0.00	0.00
50-06-4500	Engineering-Scenic Heights	4,258.00	3,419.00		0.00		3,419.00	0.00
50-06-4600	Construction Expense	51,397.00	19,981.00		0.00	1603	19,981.00	0.00
50-07-4290	Legal Notices	969.00	0.00		0.00		0.00	0.00
50-07-4410	Legal Fees	2,385.00	0.00		0.00		0.00	0.00
50-07-4500	Engineering-Hyland	10,599.00	0.00		0.00		0.00	0.00
50-07-4600	Construction Expense	114,659.00	0.00		0.00		0.00	10,000.00
50-08-4290	Legal Notices	727.00	0.00		0.00		0.00	0.00
50-08-4335	Professional Services	0.00	1,000.00		0.00		1,000.00	0.00
50-08-4410	Legal Fees	4,366.00	9,366.00		0.00		9,366.00	0.00
50-08-4500	Engineering-Duck Lake	58,032.00	13,120.00		0.00		13,120.00	0.00
50-08-4600	Construction Expense	25,408.00	69,817.00		0.00	1603	69,817.00	0.00
50-09-4201	Supplies-Field	1,269.00	0.00		0.00		0.00	0.00
50-09-4500	Engineering-Mitchell	21,343.00	51,259.00		0.00		51,259.00	0.00
50-09-4530	Lab Analysis	3,536.00	813.00		0.00		813.00	0.00
50-09-4635	Equipment	15,149.00	0.00		0.00		0.00	0.00
50-10-4500	Engineering Expense	0.00	15,621.00		0.00		15,621.00	0.00
50-10-4600	Construction Expense	0.00	0.00		0.00		0.00	30,000.00
99-43-5000	Capital Outlay	(549,009.00)	0.00		0.00		0.00	0.00
Subtotal [EXP] Expenses		710,935.00	2,910,575.00		(27,617.00)		2,882,958.00	1,415,000.00
Subgroup : [OPEI] Operating Grants and Contributions								
30-01-3302	Partnerships	0.00	(50,000.00)		0.00		(50,000.00)	0.00
40-05-3302	Partnerships	0.00	(480,698.00)		0.00		(480,698.00)	0.00
40-07-3300	Grant Income	(42,539.00)	(12,461.00)		0.00	1352	(12,461.00)	0.00
40-07-3302	Partnerships	0.00	(5,000.00)		0.00		(5,000.00)	0.00
50-06-3300	Grant Income	(24,979.00)	0.00		0.00		0.00	0.00
50-06-3302	Income-Partnership	(15,000.00)	0.00		0.00		0.00	0.00
50-07-3302	Income-Partnerships	(20,000.00)	0.00		0.00		0.00	0.00
50-09-3300	Grant Income	(41,297.00)	(28,703.00)		0.00	1352	(28,703.00)	0.00
50-09-3302	Partnerships	0.00	(5,000.00)		0.00		(5,000.00)	0.00
Subtotal [OPERGR] Operating Grants and Contributions		(143,815.00)	(581,862.00)		0.00		(581,862.00)	0.00
Subgroup : [CAP] Capital Grants and Contributions								
30-03-3300	Grants-Income	(295,950.00)	0.00		0.00		0.00	0.00
Subtotal [CAPGR] Capital Grants and Contributions		(295,950.00)	0.00		0.00		0.00	0.00
Total [43000] Projects		271,170.00	2,328,713.00		(27,617.00)		2,301,096.00	1,415,000.00

Client: **47441 - Riley Purgatory Bluff Creek Watershed District**
 Engagement: **2020A - Riley Purgatory Bluff Creek WD**
 Period Ending: **12/31/2020**
 Trial Balance: **TB**
 Workpaper:

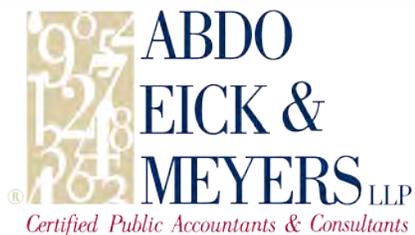
Account	Description	W/P Ref	Debit	Credit
Adjusting Journal Entries JE # 1		1352		
Accounting - Entry to adjust grant revenues (County Cholride and WOMP)				
10-00-3300	Grants-Income		4,500.00	
10-00-2401	Unearned Revenue-Grants			1,822.00
20-19-3300	Grant Income			2,678.00
Total			<u>4,500.00</u>	<u>4,500.00</u>
Adjusting Journal Entries JE # 2		2050		
Accounting - Entry to adjust entry made to AP and retainage or double accrual of expenses.				
10-00-2100	Accounts Payable		5,607.00	
10-00-2100	Accounts Payable		22,010.00	
30-01-4600	Construction Expense			5,607.00
40-05-4600	Construction Expense			22,010.00
Total			<u>27,617.00</u>	<u>27,617.00</u>
Adjusting Journal Entries JE # 3		1153		
Accounting - Entry to adjust taxes receivable for the current year based on county reports				
10-00-2400	Deferred Revenue		1,211.00	
10-00-1450	Taxes Receivable-Delinquent			1,211.00
Total			<u>1,211.00</u>	<u>1,211.00</u>

Management Communication

Riley Purgatory Bluff Creek Watershed District

Chanhassen, Minnesota

For the Year Ended
December 31, 2020



People
+ Process.
Going
Beyond the
Numbers

Management and Board of Managers
Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota

We have audited the financial statements of the governmental activities and major fund of the Riley Purgatory Bluff Creek Watershed District (the District), Chanhassen, Minnesota, for the year ended December 31, 2020. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated November 20, 2020. Professional standards also require that we communicate to you the following information related to our audit.

Our Responsibility under Auditing Standards Generally Accepted in the United States of America

As stated in our engagement letter, our responsibility, as described by professional standards, is to express opinions about whether the financial statements prepared by management with your oversight are fairly presented, in all material respects, in conformity with accounting principles generally accepted in the United States of America. Our audit of the financial statements does not relieve you or management of your responsibilities.

Our responsibility is to plan and perform the audit to obtain reasonable, but not absolute, assurance that the financial statements are free of material misstatement. As part of our audit, we considered the internal control over financial reporting of the District. Such considerations were solely for the purpose of determining our audit procedures and not to provide any assurance concerning such internal control over financial reporting. We are responsible for communicating significant matters related to the audit that are, in our professional judgment, relevant to your responsibilities in overseeing the financial reporting process. However, we are not required to design procedures specifically to identify such matters.

Significant Audit Findings

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the District's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements, and other matters noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit. The results of our tests disclosed one instance of noncompliance described below as finding 2020-001.

2020-001

Time Period for Payment

Condition:

Auditing for legal compliance requires a review of the District's payment of claims. Our audit indicated an instance of non-compliance that we believe is required to be remedied.

Criteria:

Minnesota statute section 471.425 requires that the District pay bills within 35 days from receipt. If the invoice is not paid within the 35 days, interest at 1.5 percent per month is to be added to amount due.

Cause:

We noted invoices that were paid after the 35 day period. This was due to invoices submitted and received after the internal cutoff date.

Effect:

The District is out of compliance with this statute.

Recommendation:

We recommend that the District develop policies and procedures related to the accounts payable cycle. These policies and procedures should include payment terms that are outlined within State statutes. We also recommend purchasing a date stamp to document when all invoices are received at the District. Implementing this recommendation will not result in any additional cost to the District.

Management Response:

The District's Board of Managers meets only once per month. The vast majority of all claims and invoices are paid within 35 days. The District's accountant and Treasurer process all current invoices and prepare checks for payment about five (days) prior to the Board meeting. On the occasions when an invoice is submitted after that cutoff date, payment can take more than 35 days. This situation is common for units of government holding meetings only once per month. We would welcome recommendations on policies and procedures to address the accounts payable cycle, but there are costs and other considerations to holding board meetings more frequently than once per month.

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the District are described in Note 1 to the financial statements. No new accounting policies were adopted and the application of existing policies were not changed during the year ended December 31, 2020. We noted no transactions entered into by the District during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting the financial statements include depreciation on capital assets.

- Management's estimate of depreciation is based on estimated useful lives of the assets. Depreciation is calculated using the straight-line method.
- Management's estimate of its pension liability is based on several factors including, but not limited to, anticipated investment return rate, retirement age for active employees, life expectancy, salary increase and form of annuity payment upon retirement.

We evaluated the key factors and assumptions used to develop these estimates in determining that they are reasonable in relation to the financial statements taken as a whole. The disclosures in the financial statements are neutral, consistent, and clear. Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. Management has corrected all such misstatements. We proposed journal entries that we consider to be audit entries, or corrections of management decisions. There were entries made to adjust and recognize revenues related to grants through due from other governments and unearned revenue. The District should establish more detailed processes and procedures to reduce these entries in future years.

Disagreements with Management

For purposes of this letter, professional standards define a disagreement with management as a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated May 26, 2021.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the District's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the District's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to the required supplementary information (RSI) (Management's Discussion and Analysis, the Schedules of Employer's Shares of the Net Pension Liability, and the Schedules of Employer's Contributions) is information that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the supplementary information for the financial statements but are not RSI. With respect to this supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the introductory section which accompanies the financial statements but is not RSI. We did not audit or perform other procedures on this other information and we do not express an opinion or provide any assurance on it.

Future Accounting Standard Changes

The following Governmental Accounting Standards Board (GASB) Statements have been issued and may have an impact on future District financial statements: ⁽¹⁾

GASB Statement No. 87 - Leases

Summary

The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. This Statement increases the usefulness of governments' financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under this Statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources, thereby enhancing the relevance and consistency of information about governments' leasing activities.

Effective Date and Transition

The requirements of this Statement are effective for fiscal years beginning after June 15, 2021, and all reporting periods thereafter.

Leases should be recognized and measured using the facts and circumstances that exist at the beginning of the period of implementation (or, if applied to earlier periods, the beginning of the earliest period restated). However, lessors should not restate the assets underlying their existing sales-type or direct financing leases. Any residual assets for those leases become the carrying values of the underlying assets.

How the Changes in This Statement Will Improve Accounting and Financial Reporting

This Statement will increase the usefulness of governments' financial statements by requiring reporting of certain lease liabilities that currently are not reported. It will enhance comparability of financial statements among governments by requiring lessees and lessors to report leases under a single model. This Statement also will enhance the decision-usefulness of the information provided to financial statement users by requiring notes to financial statements related to the timing, significance, and purpose of a government's leasing arrangements.

GASB Statement No. 89 - Accounting for Interest Cost Incurred before the End of a Construction Period

Summary

The objectives of this Statement are (1) to enhance the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) to simplify accounting for interest cost incurred before the end of a construction period.

This Statement establishes accounting requirements for interest cost incurred before the end of a construction period. Such interest cost includes all interest that previously was accounted for in accordance with the requirements of paragraphs 5–22 of Statement No. 62, Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements, which are superseded by this Statement. This Statement requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred for financial statements prepared using the economic resources measurement focus. As a result, interest cost incurred before the end of a construction period will not be included in the historical cost of a capital asset reported in a business-type activity or enterprise fund.

This Statement also reiterates that in financial statements prepared using the current financial resources measurement focus, interest cost incurred before the end of a construction period should be recognized as an expenditure on a basis consistent with governmental fund accounting principles.

Future Accounting Standard Changes (Continued)

Effective Date and Transition

The requirements of this Statement are effective for reporting periods beginning after December 15, 2020. Earlier application is encouraged.

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will improve financial reporting by providing users of financial statements with more relevant information about capital assets and the cost of borrowing for a reporting period. The resulting information also will enhance the comparability of information about capital assets and the cost of borrowing for a reporting period for both governmental activities and business-type activities.

GASB Statement No. 91 - Conduit Debt Obligations

Summary

The primary objectives of this Statement are to provide a single method of reporting conduit debt obligations by issuers and eliminate diversity in practice associated with (1) commitments extended by issuers, (2) arrangements associated with conduit debt obligations, and (3) related note disclosures. This Statement achieves those objectives by clarifying the existing definition of a conduit debt obligation; establishing that a conduit debt obligation is not a liability of the issuer; establishing standards for accounting and financial reporting of additional commitments and voluntary commitments extended by issuers and arrangements associated with conduit debt obligations; and improving required note disclosures.

All conduit debt obligations involve the issuer making a limited commitment. Some issuers extend additional commitments or voluntary commitments to support debt service in the event the third party is, or will be, unable to do so.

An issuer should not recognize a conduit debt obligation as a liability. However, an issuer should recognize a liability associated with an additional commitment or a voluntary commitment to support debt service if certain recognition criteria are met. As long as a conduit debt obligation is outstanding, an issuer that has made an additional commitment should evaluate at least annually whether those criteria are met. An issuer that has made only a limited commitment should evaluate whether those criteria are met when an event occurs that causes the issuer to reevaluate its willingness or ability to support the obligor's debt service through a voluntary commitment.

This Statement also addresses arrangements - often characterized as leases - that are associated with conduit debt obligations. In those arrangements, capital assets are constructed or acquired with the proceeds of a conduit debt obligation and used by third-party obligors in the course of their activities. Payments from third-party obligors are intended to cover and coincide with debt service payments. During those arrangements, issuers retain the titles to the capital assets. Those titles may or may not pass to the obligors at the end of the arrangements.

This Statement requires issuers to disclose general information about their conduit debt obligations, organized by type of commitment, including the aggregate outstanding principal amount of the issuers' conduit debt obligations and a description of each type of commitment. Issuers that recognize liabilities related to supporting the debt service of conduit debt obligations also should disclose information about the amount recognized and how the liabilities changed during the reporting period.

Effective Date and Transition

The requirements of this Statement are effective for reporting periods beginning after December 15, 2021. Earlier application is encouraged.

Future Accounting Standard Changes (Continued)

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will improve financial reporting by eliminating the existing option for issuers to report conduit debt obligations as their own liabilities, thereby ending significant diversity in practice. The clarified definition will resolve stakeholders' uncertainty as to whether a given financing is, in fact, a conduit debt obligation. Requiring issuers to recognize liabilities associated with additional commitments extended by issuers and to recognize assets and deferred inflows of resources related to certain arrangements associated with conduit debt obligations also will eliminate diversity, thereby improving comparability in reporting by issuers. Revised disclosure requirements will provide financial statement users with better information regarding the commitments issuers extend and the likelihood that they will fulfill those commitments. That information will inform users of the potential impact of such commitments on the financial resources of issuers and help users assess issuers' roles in conduit debt obligations.

GASB Statement No. 92 - Omnibus 2020

Summary

The objectives of this Statement are to enhance comparability in accounting and financial reporting and to improve the consistency of authoritative literature by addressing practice issues that have been identified during implementation and application of certain GASB Statements. This Statement addresses a variety of topics and includes specific provisions about the following:

- The effective date of Statement No. 87, Leases, and Implementation Guide No. 2019-3, Leases, for interim financial reports
- Reporting of intra-entity transfers of assets between a primary government employer and a component unit defined benefit pension plan or defined benefit other postemployment benefit (OPEB) plan
- The applicability of Statements No. 73, Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68, as amended, and No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, as amended, to reporting assets accumulated for postemployment benefits
- The applicability of certain requirements of Statement No. 84, Fiduciary Activities, to postemployment benefit arrangements
- Measurement of liabilities (and assets, if any) related to asset retirement obligations (AROs) in a government acquisition
- Reporting by public entity risk pools for amounts that are recoverable from reinsurers or excess insurers
- Reference to nonrecurring fair value measurements of assets or liabilities in authoritative literature
- Terminology used to refer to derivative instruments.

Future Accounting Standard Changes (Continued)

Effective Date and Transition

The requirements of this Statement are effective as follows:

- The requirements related to the effective date of Statement 87 and Implementation Guide 2019-3, reinsurance recoveries, and terminology used to refer to derivative instruments are effective upon issuance.
- The requirements related to intra-entity transfers of assets and those related to the applicability of Statements 73 and 74 are effective for fiscal years beginning after June 15, 2020.
- The requirements related to application of Statement 84 to postemployment benefit arrangements and those related to nonrecurring fair value measurements of assets or liabilities are effective for reporting periods beginning after June 15, 2020.
- The requirements related to the measurement of liabilities (and assets, if any) associated with AROs in a government acquisition are effective for government acquisitions occurring in reporting periods beginning after June 15, 2020.

Earlier application is encouraged and is permitted by topic.

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will enhance comparability in the application of accounting and financial reporting requirements and will improve the consistency of authoritative literature. More comparable reporting will improve the usefulness of information for users of state and local government financial statements.

GASB Statement No. 93 - *Replacement of Interbank Offered Rates*

Summary

The objective of this Statement is to address those and other accounting and financial reporting implications that result from the replacement of an IBOR. This Statement achieves that objective by:

- Providing exceptions for certain hedging derivative instruments to the hedge accounting termination provisions when an IBOR is replaced as the reference rate of the hedging derivative instrument's variable payment
- Clarifying the hedge accounting termination provisions when a hedged item is amended to replace the reference rate
- Clarifying that the uncertainty related to the continued availability of IBORs does not, by itself, affect the assessment of whether the occurrence of a hedged expected transaction is probable
- Removing LIBOR as an appropriate benchmark interest rate for the qualitative evaluation of the effectiveness of an interest rate swap
- Identifying a Secured Overnight Financing Rate and the Effective Federal Funds Rate as appropriate benchmark interest rates for the qualitative evaluation of the effectiveness of an interest rate swap
- Clarifying the definition of reference rate, as it is used in Statement 53, as amended
- Providing an exception to the lease modifications guidance in Statement 87, as amended, for certain lease contracts that are amended solely to replace an IBOR as the rate upon which variable payments depend

Future Accounting Standard Changes (Continued)

Effective Date and Transition

The removal of LIBOR as an appropriate benchmark interest rate is effective for reporting periods ending after December 31, 2021. All other requirements of this Statement are effective for reporting periods beginning after June 15, 2020. Earlier application is encouraged. The exceptions to the existing provisions for hedge accounting termination and lease modifications in this Statement will reduce the cost of the accounting and financial reporting ramifications of replacing IBORs with other reference rates. The reliability and relevance of reported information will be maintained by requiring that agreements that effectively maintain an existing hedging arrangement continue to be accounted for in the same manner as before the replacement of a reference rate. As a result, this Statement will preserve the consistency and comparability of reporting hedging derivative instruments and leases after governments amend or replace agreements to replace an IBOR.

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will enhance comparability in the application of accounting and financial reporting requirements and will improve the consistency of authoritative literature. More comparable reporting will improve the usefulness of information for users of state and local government financial statements.

GASB Statement No. 94 - *Public-Private and Public-Public Partnerships and Availability Payment Arrangements*

Summary

The primary objective of this Statement is to improve financial reporting by addressing issues related to public-private and public-public partnership arrangements (PPPs). As used in this Statement, a PPP is an arrangement in which a government (the transferor) contracts with an operator (a governmental or nongovernmental entity) to provide public services by conveying control of the right to operate or use a nonfinancial asset, such as infrastructure or other capital asset (the underlying PPP asset), for a period of time in an exchange or exchange-like transaction. Some PPPs meet the definition of a service concession arrangement (SCA), which the Board defines in this Statement as a PPP in which (1) the operator collects and is compensated by fees from third parties; (2) the transferor determines or has the ability to modify or approve which services the operator is required to provide, to whom the operator is required to provide the services, and the prices or rates that can be charged for the services; and (3) the transferor is entitled to significant residual interest in the service utility of the underlying PPP asset at the end of the arrangement.

This Statement also provides guidance for accounting and financial reporting for availability payment arrangements (APAs). As defined in this Statement, an APA is an arrangement in which a government compensates an operator for services that may include designing, constructing, financing, maintaining, or operating an underlying nonfinancial asset for a period of time in an exchange or exchange-like transaction.

Effective Date and Transition

The requirements of this Statement are effective for fiscal years beginning after June 15, 2022, and all reporting periods thereafter. Earlier application is encouraged.

PPPs should be recognized and measured using the facts and circumstances that exist at the beginning of the period of implementation (or if applicable to earlier periods, the beginning of the earliest period restated).

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will improve financial reporting by establishing the definitions of PPPs and APAs and providing uniform guidance on accounting and financial reporting for transactions that meet those definitions. That uniform guidance will provide more relevant and reliable information for financial statement users and create greater consistency in practice. This Statement will enhance the decision usefulness of a government's financial statements by requiring governments to report assets and liabilities related to PPPs consistently and disclose important information about PPP transactions. The required disclosures will allow users to understand the scale and important aspects of a government's PPPs and evaluate a government's future obligations and assets resulting from PPPs.

Future Accounting Standard Changes (Continued)

GASB Statement No. 95 - *Postponement of the Effective Dates of Certain Authoritative Guidance*

Summary

The primary objective of this Statement is to provide temporary relief to governments and other stakeholders in light of the COVID-19 pandemic. That objective is accomplished by postponing the effective dates of certain provisions in Statements and Implementation Guides that first became effective or are scheduled to become effective for periods beginning after June 15, 2018, and later.

The effective dates of certain provisions contained in the following pronouncements are postponed by one year:

- Statement No. 83, Certain Asset Retirement Obligations
- Statement No. 84, Fiduciary Activities
- Statement No. 88, Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements
- Statement No. 89, Accounting for Interest Cost Incurred before the End of a Construction Period
- Statement No. 90, Majority Equity Interests
- Statement No. 91, Conduit Debt Obligations
- Statement No. 92, Omnibus 2020
- Statement No. 93, Replacement of Interbank Offered Rates
- Implementation Guide No. 2017-3, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions (and Certain Issues Related to OPEB Plan Reporting)
- Implementation Guide No. 2018-1, Implementation Guidance Update - 2018
- Implementation Guide No. 2019-1, Implementation Guidance Update - 2019
- Implementation Guide No. 2019-2, Fiduciary Activities.

The effective dates of the following pronouncements are postponed by 18 months:

- Statement No. 87, Leases
- Implementation Guide No. 2019-3, Leases.

Effective Date and Transition

The requirements of this Statement are effective immediately.

How the Changes in This Statement Will Improve Accounting and Financial Reporting

Providing governments with sufficient time to apply the authoritative guidance addressed in this Statement will help to safeguard the reliability of their financial statements, which in turn will benefit the users of those financial statements.

Future Accounting Standard Changes (Continued)

GASB Statement No. 96 - *Subscription-Based Information Technology Arrangements*

Summary

This Statement provides guidance on the accounting and financial reporting for subscription-based information technology arrangements (SBITAs) for government end users (governments). This Statement (1) defines a SBITA; (2) establishes that a SBITA results in a right-to-use subscription asset - an intangible asset - and a corresponding subscription liability; (3) provides the capitalization criteria for outlays other than subscription payments, including implementation costs of a SBITA; and (4) requires note disclosures regarding a SBITA. To the extent relevant, the standards for SBITAs are based on the standards established in Statement No. 87, Leases, as amended.

Under this Statement, a government generally should recognize a right-to-use subscription asset - an intangible asset - and a corresponding subscription liability. A government should recognize the subscription liability at the commencement of the subscription term, - which is when the subscription asset is placed into service. The subscription liability should be initially measured at the present value of subscription payments expected to be made during the subscription term. Future subscription payments should be discounted using the interest rate the SBITA vendor charges the government, which may be implicit, or the government's incremental borrowing rate if the interest rate is not readily determinable. A government should recognize amortization of the discount on the subscription liability as an outflow of resources (for example, interest expense) in subsequent financial reporting periods.

This Statement provides an exception for short-term SBITAs. Short-term SBITAs have a maximum possible term under the SBITA contract of 12 months (or less), including any options to extend, regardless of their probability of being exercised. Subscription payments for short-term SBITAs should be recognized as outflows of resources.

This Statement requires a government to disclose descriptive information about its SBITAs other than short-term SBITAs, such as the amount of the subscription asset, accumulated amortization, other payments not included in the measurement of a subscription liability, principal and interest requirements for the subscription liability, and other essential information.

Effective Date and Transition

The requirements of this Statement are effective for fiscal years beginning after June 15, 2022, and all reporting periods thereafter. Earlier application is encouraged. Assets and liabilities resulting from SBITAs should be recognized and measured using the facts and circumstances that existed at the beginning of the fiscal year in which this Statement is implemented. Governments are permitted, but are not required, to include in the measurement of the subscription asset capitalizable outlays associated with the initial implementation stage and the operation and additional implementation stage incurred prior to the implementation of this Statement.

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will improve financial reporting by establishing a definition for SBITAs and providing uniform guidance for accounting and financial reporting for transactions that meet that definition. That definition and uniform guidance will result in greater consistency in practice. Establishing the capitalization criteria for implementation costs also will reduce diversity and improve comparability in financial reporting by governments. This Statement also will enhance the relevance and reliability of a government's financial statements by requiring a government to report a subscription asset and subscription liability for a SBITA and to disclose essential information about the arrangement. The disclosures will allow users to understand the scale and important aspects of a government's SBITA activities and evaluate a government's obligations and assets resulting from SBITAs.

Future Accounting Standard Changes (Continued)

GASB Statement No. 97 - *Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans - an amendment of GASB Statements No. 14 and No. 84, and a supersession of GASB Statement No. 32*

Summary

The primary objectives of this Statement are to (1) increase consistency and comparability related to the reporting of fiduciary component units in circumstances in which a potential component unit does not have a governing board and the primary government performs the duties that a governing board typically would perform; (2) mitigate costs associated with the reporting of certain defined contribution pension plans, defined contribution other postemployment benefit (OPEB) plans, and employee benefit plans other than pension plans or OPEB plans (other employee benefit plans) as fiduciary component units in fiduciary fund financial statements; and (3) enhance the relevance, consistency, and comparability of the accounting and financial reporting for Internal Revenue Code (IRC) Section 457 deferred compensation plans (Section 457 plans) that meet the definition of a pension plan and for benefits provided through those plans.

This Statement requires that for purposes of determining whether a primary government is financially accountable for a potential component unit, except for a potential component unit that is a defined contribution pension plan, a defined contribution OPEB plan, or another employee benefit plan (for example, certain Section 457 plans), the absence of a governing board should be treated the same as the appointment of a voting majority of a governing board if the primary government performs the duties that a governing board typically would perform.

This Statement also requires that the financial burden criterion in paragraph 7 of Statement No. 84, Fiduciary Activities, be applicable to only defined benefit pension plans and defined benefit OPEB plans that are administered through trusts that meet the criteria in paragraph 3 of Statement No. 67, Financial Reporting for Pension Plans, or paragraph 3 of Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, respectively.

This Statement (1) requires that a Section 457 plan be classified as either a pension plan or another employee benefit plan depending on whether the plan meets the definition of a pension plan and (2) clarifies that Statement 84, as amended, should be applied to all arrangements organized under IRC Section 457 to determine whether those arrangements should be reported as fiduciary activities.

This Statement supersedes the remaining provisions of Statement No. 32, Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans, as amended, regarding investment valuation requirements for Section 457 plans. As a result, investments of all Section 457 plans should be measured as of the end of the plan's reporting period in all circumstances.

Effective Date and Transition

The requirements of this Statement that (1) exempt primary governments that perform the duties that a governing board typically performs from treating the absence of a governing board the same as the appointment of a voting majority of a governing board in determining whether they are financially accountable for defined contribution pension plans, defined contribution OPEB plans, or other employee benefit plans and (2) limit the applicability of the financial burden criterion in paragraph 7 of Statement 84 to defined benefit pension plans and defined benefit OPEB plans that are administered through trusts that meet the criteria in paragraph 3 of Statement 67 or paragraph 3 of Statement 74, respectively, are effective immediately.

The requirements of this Statement that are related to the accounting and financial reporting for Section 457 plans are effective for fiscal years beginning after June 15, 2021. For purposes of determining whether a primary government is financially accountable for a potential component unit, the requirements of this Statement that provide that for all other arrangements, the absence of a governing board be treated the same as the appointment of a voting majority of a governing board if the primary government performs the duties that a governing board typically would perform, are effective for reporting periods beginning after June 15, 2021. Earlier application of those requirements is encouraged and permitted by requirement as specified within this Statement.

The Board considered the effective dates for the requirements of this Statement in light of the COVID-19 pandemic and in concert with Statement No. 95, Postponement of the Effective Dates of Certain Authoritative Guidance.

Future Accounting Standard Changes (Continued)

How the Changes in This Statement Will Improve Accounting and Financial Reporting

The requirements of this Statement will result in more consistent financial reporting of defined contribution pension plans, defined contribution OPEB plans, and other employee benefit plans, while mitigating the costs associated with reporting those plans. The requirements also will enhance the relevance, consistency, and comparability of (1) the information related to Section 457 plans that meet the definition of a pension plan and the benefits provided through those plans and (2) investment information for all Section 457 plans.

⁽¹⁾ *Note.* From GASB Pronouncements Summaries. Copyright 2020 by the Financial Accounting Foundation, 401 Merritt 7, Norwalk, CT 06856, USA, and is reproduced with permission.

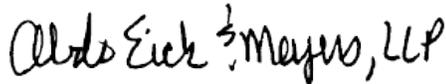
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Restriction on Use

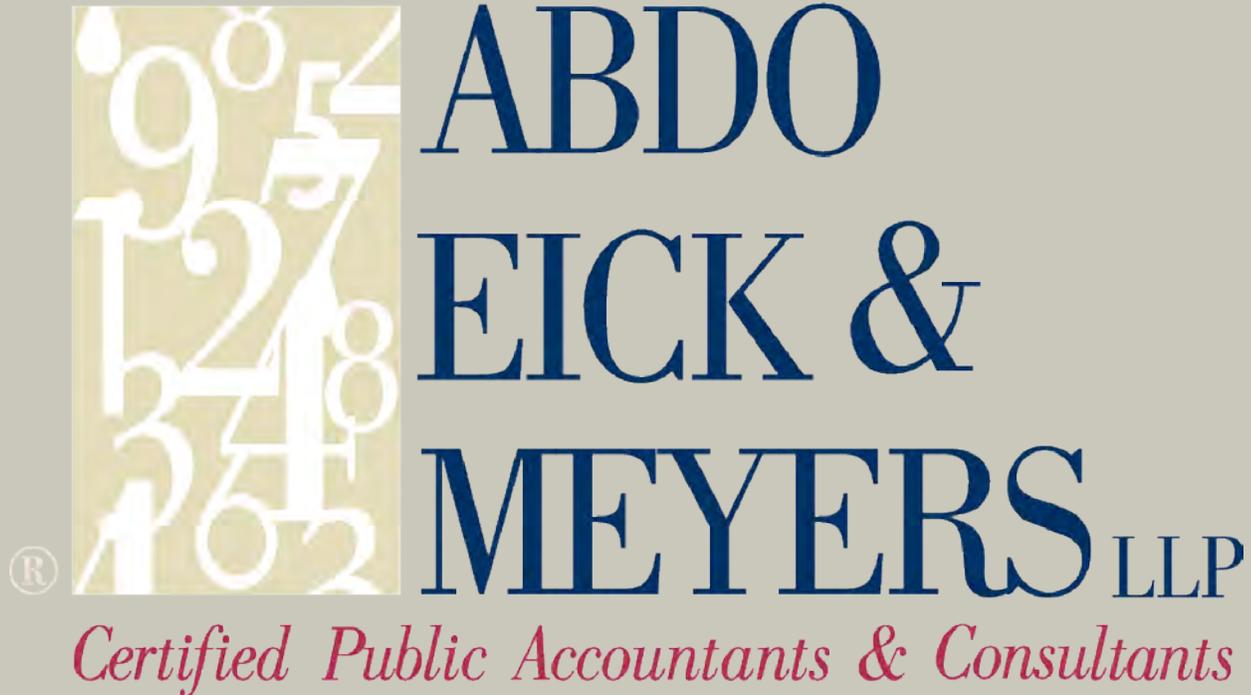
This communication is intended solely for the information and use of Board of Managers, management and the Minnesota Office of the State Auditor, and is not intended to be and should not be used by anyone other than these specified parties.

Our audit would not necessarily disclose all weaknesses in the system because it was based on selected tests of the accounting records and related data. The comments and recommendations in the report are purely constructive in nature, and should be read in this context.

If you have any questions or wish to discuss any of the items contained in this letter, please feel free to contact us at your convenience. We wish to thank you for the opportunity to be of service and for the courtesy and cooperation extended to us by your staff.



ABDO, EICK & MEYERS, LLP
Minneapolis, Minnesota
May 26, 2021



**Riley
Purgatory
Bluff Creek
Watershed
District**

**2020 Financial
Statement Audit**

Introduction

Audit Opinion and
Responsibility

509 Plan Implementation
Fund Results

Audit Results

Auditor's Opinion

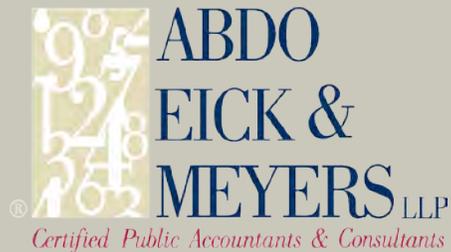


Minnesota Legal Compliance



Audit Results

2020 Audit Findings



Timing of Payments

- Compliance Finding
- MN Statute 471.425

Results From Prior Year

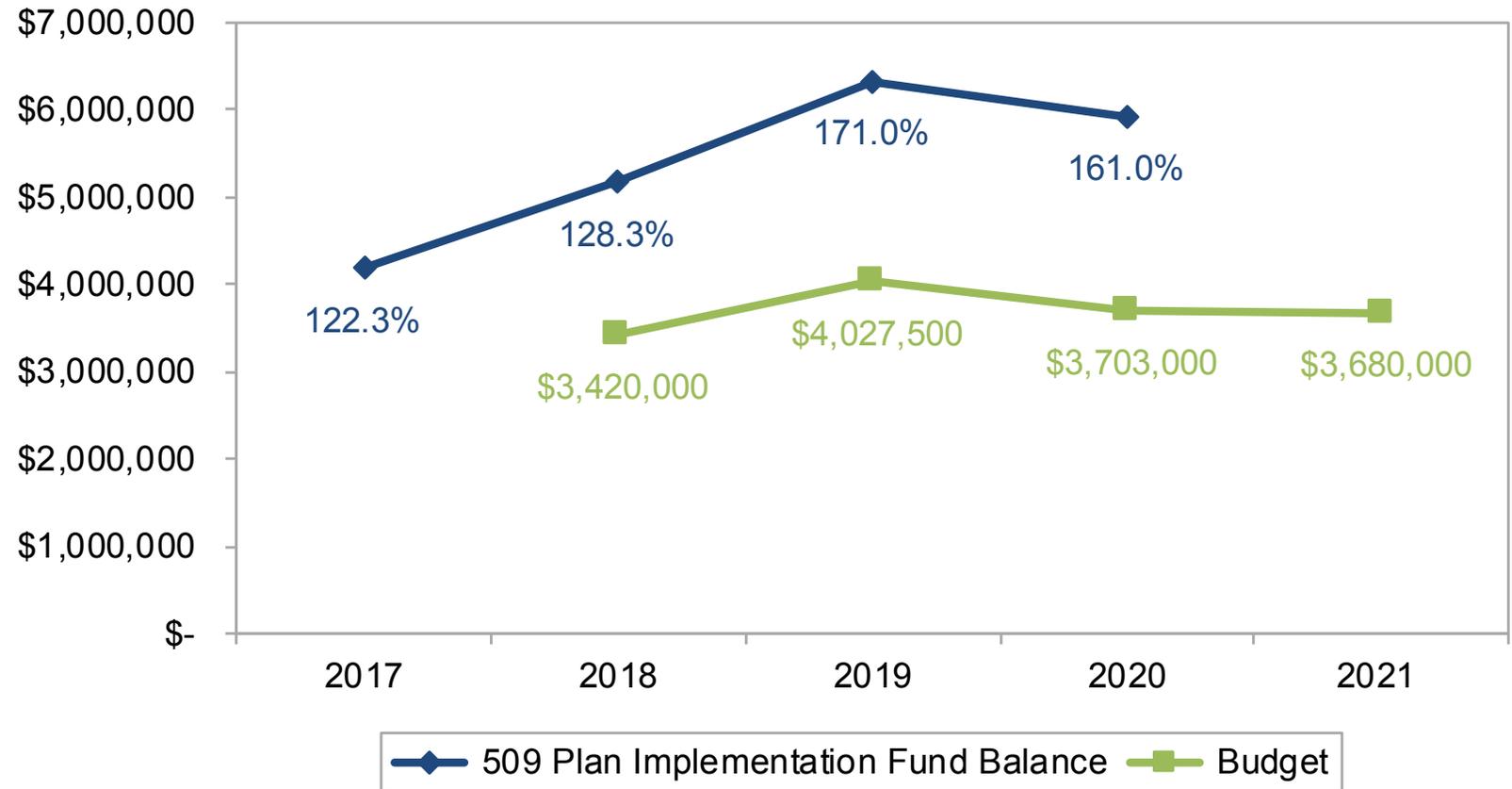
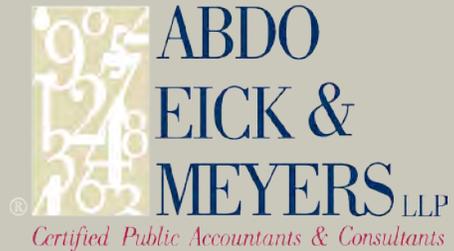
2019 Audit Findings



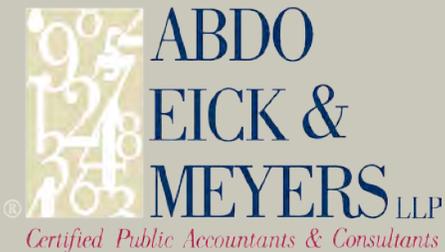
Material Audit Adjustment

- Internal Control Finding
- Recognition of Grant Revenue
- No Adjustments Were Necessary in 2020

509 Plan Implementation Fund - Fund Balances



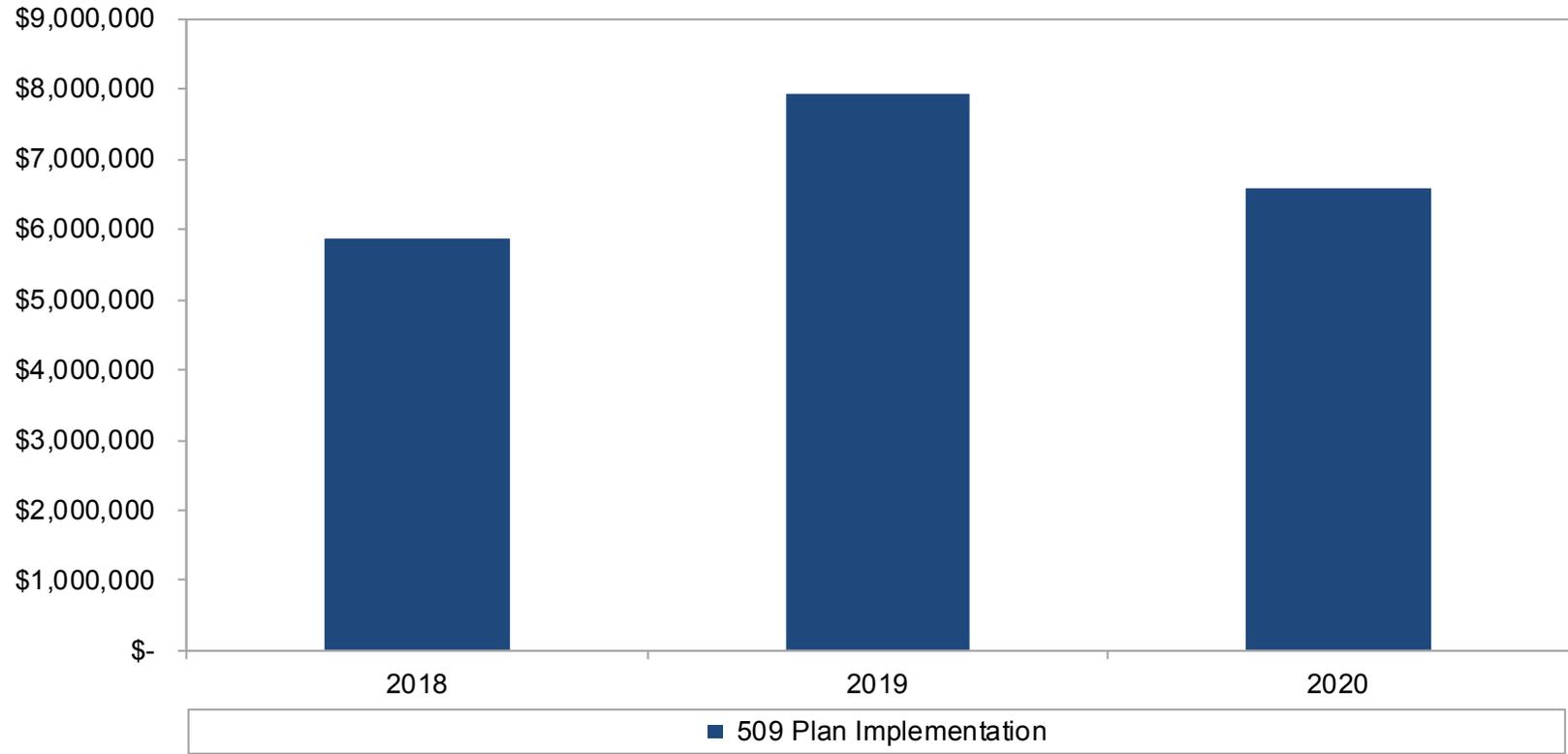
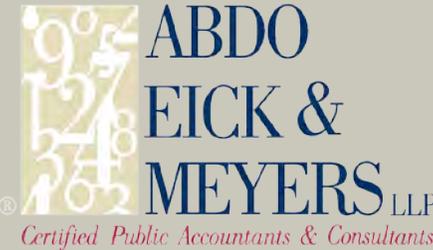
509 Implementation Fund Budget to Actual



	Final Budgeted Amounts	Actual Amounts	Variance with Final Budget
Revenues	\$ 3,803,000	\$ 4,446,801	\$ 643,801
Current			
General Government	1,196,000	1,158,632	37,368
Programs	1,092,000	796,558	295,442
Projects	1,415,000	2,882,958	(1,467,958)
Capital Outlay	-	16,026	(16,026)
Total Expenditures	3,703,000	4,854,174	(1,151,174)
Net Change in Fund Balances	100,000	(407,373)	(507,373)
Fund Balances, January 1	6,333,598	6,333,598	-
Fund Balances, December 31	<u>\$ 6,433,598</u>	<u>\$ 5,926,225</u>	<u>\$ (507,373)</u>

- Expenditures over budget are due to the timing of project/program costs expended during the year from prior levies.

Cash and Investments Balances





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Audit Team Contacts

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
From: Heather Hlavaty, P.E. and Scott Sobiech, P.E., Barr Engineering Co.
Subject: Pioneer Trail Wetland Restoration Project – Request Board Authorization to Solicit Bids for Construction
Date: May 27, 2021
Project: 23/27-0053.14 030
c: Terry Jeffery – RPBCWD Interim Administrator

Requested Board Action

It is requested that the RPBCWD Board of Managers authorize Barr Engineering Co. to solicit bids from contractors to construct the Pioneer Trail Wetland Restoration Project as designed and shown on the construction documents.

The Pioneer Trail wetland restoration project is located within the Bluff Creek watershed, on the north side of Pioneer Trail just east of CSAH 101 in Chanhassen, Minnesota. The site receives drainage from a 98-acre watershed consisting of primarily low- and single family detached residential, undeveloped and agricultural land, and open-space/park areas. Within the 7.32-acre site, is a wetland that is comprised of fresh wet meadow, wet-mesic prairie, and shallow marsh. All three of these community types are rated as having low vegetative diversity and integrity. The site is currently dominated by invasive species. Reed canary grass is the primary species covering a large portion of the eastern section of the project site in the wet meadow and wet mesic prairie communities. Invasive cattail is dominant in portions of the shallow marsh community. Kentucky bluegrass, dandelion, pigweed, burdock, curly dock, common plantain, thistle, and creeping charley are abundant in the upland areas along the south, west, and northern edges of the site. Non-native invasive Amur maple is also present in the northern and southeastern edges of the site.

This project was identified in a March 2020 feasibility study for the area with the goal of the project to restore the wetland on three parcels owned by RPBCWD. The proposed project includes blocking the existing daintile, replacement of the surface outlet, grading within an existing wetland to increase floodplain storage, and restoration of land surrounding and within an existing wetland with native and diverse wetland and upland vegetation. The proposed project does not change drainage patterns in the watershed and decreases the total impervious area within the site from 0.08 to 0.01 acres. The work includes excavation within the delineated wetland but will not result in the placement of fill within the wetland. The project will not increase the 2, 10, and 100-year flood elevation in the wetland or increase peak flows off-site.

The RPBCWD Board of Managers ordered the Pioneer Trail wetland restoration project at the April 2020 regular meeting for the design and preparation of construction documents for the recommended project from the feasibility study. Early in the final design process, district staff directed Barr to refine the design

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
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Date: May 27, 2021
Page: 2

with survey collected by District staff. The incorporation of survey data resulted in an adjustment to the final design to eliminate increases in peak flows from the site and prevent the need to re-direct the storm sewer crossing Pioneer Trail.

Construction documents including bidding documents, construction drawings, and technical specifications, have been prepared for the Pioneer Trail Wetland Restoration Project. The contract documents (i.e., specifications) are in the process of being reviewed by RPBCWD legal counsel and will be finalized prior to being published for bidding. The design of the proposed system includes, but is not limited to: removal of existing storm sewer; clearing and grubbing; removal of impervious surfaces and invasive vegetation; trench cut and abandon of draintile; excavation of floodplain storage; installation of storm sewer, flared end sections, inline check valves, water level control structure, and drawdown draintile; smoothing of existing flow channels; erosion and sediment control; soil rehabilitation, site restoration with native plantings; and maintaining/establishing buffer for the delineated wetlands. District staff participated in design reviews at 60% and 90% design.

The following table summarizes necessary permits and the approval status:

Table 1 Permitting status

Permitting Agency	Status
City of Chanhassen	City Earthwork/Grading permit will be submitted after District approval Conditional Use permit for vegetation abatement – RPBCWD staff coordinating
RPBCWD	Submitted to RPBCWD and under District Review
WCA	Request for wetland boundary/type and no-loss approval – under review by LGU
U.S. Army Corps of Engineers	Request for Approved Jurisdictional Determination and confirmation of pre-authorization of Nationwide Permit 27 – under review by USACE

The Engineer’s opinion of probable cost (OPC) presented in the March 2020 feasibility study and the OPC based on the 100% design are summarized in Table 2. The 100% OPC was developed using recent bid prices from similar projects that have been bid in 2019 and 2020. The overall opinion of probable construction costs for the 100% design configuration are lower than the feasibility study OPC. The annual phosphorus removal decreased from 5.0 lbs/yr to 4.2 lbs/yr during final design because the subwatershed on the south side of Pioneer Trail was no longer being re-directed into the wetland due to existing utility conflicts. The final design results in a lower cost per pound of TP removed when compared to feasibility study as shown in Table 2, as well.

The OPC provided is made on the basis of Barr Engineering’s experience and qualifications and represents our best judgment as experienced and qualified professionals familiar with the project. Because we have no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor’s methods of determining prices, or over competitive bidding or market conditions, Barr

Engineering cannot and does not guarantee that proposals, bids, or actual costs will not vary from the OPC presented.

Table 2. Engineer’s Opinion of Probable Construction Cost

Item	Feasibility Study (March 2020) ¹	Feasibility Level Annual Cost for TP Removal (\$/lb TP/yr)	Final Design Configuration (May 2021) ²	Final Design Annual Cost for TP Removal (\$/lb TP/yr)
ESTIMATED CONSTRUCTION COST	\$570,000	\$3,800	\$468,000	\$3,710
ESTIMATED ACCURACY RANGE	\$456,000	\$3,040	\$444,600	\$3,530
	\$741,000	\$4,940	\$491,400	\$3,900

¹Estimated accuracy range for feasibility study was -20% and +30% of the estimated total project cost.

²Estimated accuracy range for 100% design configuration was -5% and +5% of the estimated total project cost.

It is requested that the RPBCWD Board of Managers authorize Barr Engineering Co. to solicit bids from contractors to construct the Pioneer Trail Wetland Restoration Project as designed and shown on the construction documents. If the Board of Managers authorizes solicitation of bids to construct the Project, the following tasks would be completed.

The anticipated schedule is outlined below.

- June 2, 2021 – Board of Managers authorizes Barr Engineering Co. to solicit bids
- June 3, 2021 – Advertise in construction bulletin and in local papers and begin virtual bidding in Quest CDN
- June 25, 2021 – Virtual bid opening
- July 7, 2021 – Recommended bidder and Board approval of bid
- About July 29, 2021 – Notice to Proceed
 - Tentative construction window:
 - July 29, 2021 – November 15, 2021 – substantial completion, including a 90-day vegetation restoration period completed by November 15, 2021 (Some vegetation restoration may need to extend into the spring of 2022)
- Annual vegetation establishment activities result in project close-out and final payment by November 15, 2024 (will be impacted by the substantial completion date)

Attachments

- Table of contents of the specifications
- Advertisement for Bid
- The complete drawing package for the Pioneer Trail Wetland Restoration Project.

Contract Documents

Pioneer Trail Wetland Restoration Project Chanhassen, Minnesota

***Prepared for:
Riley Purgatory Bluff Creek Watershed District***

May 27, 2021



Contract Documents

Pioneer Trail Wetland Restoration Project

Chanhassen, Minnesota

Prepared for:

Riley Purgatory Bluff Creek Watershed District

May 27, 2021



CONTRACT DOCUMENTS

PIONEER TRAIL WETLAND RESTORATION PROJECT
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
CHANHASSEN, MINNESOTA

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C-03	Site Grading and Utility Plan
C-04	Site Grading Profiles
C-05	Details

Landscape

R-01	Restoration Plan
R-02	Restoration Details
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Appendices



PIONEER TRAIL WETLAND RESTORATION PROJECT

CHANHASSEN, MINNESOTA

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

ADVERTISEMENT FOR BIDS

Owner will be accepting online electronic bids only. Bids for Pioneer Trail Wetland Restoration Project in Chanhasseen, Carver County, Minnesota, will be received by the Owner via QuestCDN VirtuBid (vBid) until 10:30 a.m., CST, Friday, June 25, 2021 and then publicly opened and read aloud via WebEx online video-conferencing system. Interested parties can join the WebEx bid opening using the following:

Link: <https://barr.webex.com/barr/j.php?MTID=m45111fe61564c5f87ae23385e2c3c913>

If prompted for a meeting password: 062521

For audio, call in via phone: 1-877-310-7479 USA/Canada Toll Free

If prompted for meeting number or access code: 177 677 7141

The **Pioneer Trail Wetland Restoration Project** consists of providing all labor, materials, equipment and skills, and performing all operations for the removal and reconstruction of an existing outlet and restoration of approximately 7.3 acres of wetland and upland area ultimately draining to Bluff Creek. The Work consists of furnishing all labor, materials, equipment and skills, and performing all operations required to construct the Work within the site area. The Work includes, but is not limited to, mobilization and demobilization; control of water to perform work; existing utility locates; furnishing, installing, and maintaining erosion control measures and tree protection fencing; and site preparation including clearing and grubbing with select tree, vegetation, gravel, bituminous, and fence removal. The Work also includes excavation, grading, and smoothing of existing drainage channels; removal of stormwater utilities and existing mound septic system; trench-cut and plugging of existing unwanted draitile lines; locating and preservation of existing draitile; installation of water level control structure; installation of new flared end sections, stormsewer piping, and inline check valves; installation of erosion control blanket and turf reinforcement mat; seeding and mulching, planting trees and shrubs; performing site cleanup, restoring and seeding of all disturbed areas; all as provided for in the Bidding Documents.

All quantities and work items in this advertisement for bid are approximate and not guaranteed.

The potential bidder's attention is directed to the Instructions to Bidders (IB-20.01A) with regard to the mandatory pre-bid meeting scheduled to be held on June 17, 2021 beginning at 11 a.m. CDT, at the project site along Pioneer Trail, unless otherwise modified by Addendum.

Complete digital project documents are available at www.questcdn.com. To access the electronic bid form, download the project documents and click the online bidding button at the top of the advertisement.



You may download the digital plan documents for thirty dollars (\$30.00) by inputting Quest Project #7853067 on the website's Project Search page.

Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, downloading, and working with this digital project information. Potential bidders may obtain the printed documents from the Engineer for a nonrefundable price of one hundred dollars (\$100.00) per set. Please make your check payable to Barr Engineering Co. and send it to 4300 MarketPointe Drive, Suite 200, Minneapolis, Minnesota 55435. Please contact us at Phone: 952-832-2750; or Fax: 952-832-2601 if you have any questions. Partial sets of documents will not be issued.

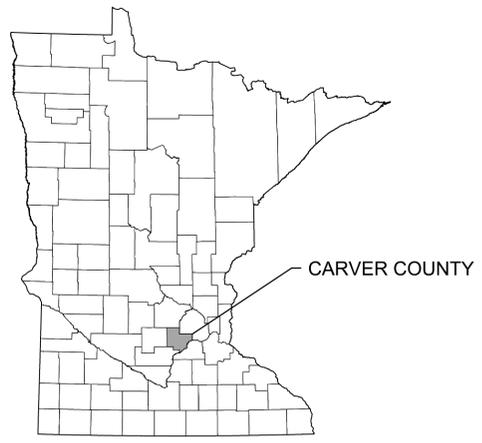
A contractor responding to this solicitation document shall submit to the Owner a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in Minnesota Statutes section 16C.285 subdivision 4.

The bid of the lowest responsible and responsive bidder is intended to be accepted on or before the expiration of sixty (60) days after the date of the opening of bids. The Owner, however, reserves the right to reject any or all bids and to waive any nonmaterial irregularities, informalities, or discrepancies, and further reserves the right to award a contract for each project in the best interest of the Riley-Purgatory-Bluff Creek Watershed District.



PIONEER TRAIL WETLAND RESTORATION PROJECT

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT CHANHASSEN, MINNESOTA



MINNESOTA COUNTY MAP



GOPHER STATE ONE CALL:
CALL BEFORE YOU DIG.
1-800-252-1166

CONTACTS:

PROJECT OWNER:
Riley Purgatory Bluff Creek Watershed District

WATERSHED DISTRICT PROJECT MANAGER:
Terry Jeffery
Riley Purgatory Bluff Creek Watershed District
Phone: 952-807-6885
Email: tjeffery@rpbcbd.org

RPBCWD ENGINEER:
Scott Sobiech, PE
Barr Engineering Co.
Phone: 952-832-2755
Email: ssobiech@barr.com

PROJECT ENGINEER:
Heather Hlavaty, PE
Barr Engineering Co.
Phone: 952-842-3613
Email: hhlavaty@barr.com



PROJECT LOCATION
LAT: 44°49'37.85"N
LON: 93°34'30.16"W

PROJECT AREA



SHEET NO.	DESCRIPTION
G-01	SITE LOCATION & SHEET INDEX
G-02	STORMWATER POLLUTION PREVENTION PLAN PAGE 1
G-03	STORMWATER POLLUTION PREVENTION PLAN PAGE 2
C-01	EXISTING CONDITIONS, REMOVALS AND EROSION CONTROL PLAN
C-02	EROSION CONTROL DETAILS
C-03	UTILITY PLAN
C-04	PROFILES
C-05	DETAILS
R-01	RESTORATION PLAN
R-02	RESTORATION DETAILS
R-03	RESTORATION DETAILS
R-04	RESTORATION DETAILS
R-05	RESTORATION DETAILS

GENERAL NOTES:

- TOPOGRAPHIC SURVEY INFORMATION SHOWN IN THIS PLAN SET IS DATA FROM: SURVEY CONDUCTED BY RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT IN FALL 2020 AND 2011 LIDAR TOPOGRAPHY.
- IMAGERY: COPYRIGHT NEARMAP LIMITED AND CARVER COUNTY, MINNESOTA, 2019.
- HORIZONTAL DATUM AND COORDINATE SYSTEM: CARVER COUNTY COORDINATES, NAD83 HARN, US SURVEY FEET.
- VERTICAL DATUM: NAVD88.
- UTILITIES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY BASED ON AVAILABLE DATA AND DO NOT REFLECT A COMPREHENSIVE INVENTORY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES.

100% ISSUED FOR BID

CADD USER: Chad W. Fuhr FILE: M:\DESIGN\23270053.1\1030_PIONEER_WETLAND\23270053.30B_G-01_TITLE SHEET.DWG PLOT SCALE: 1:1 PLOT DATE: 5/24/2021 9:40 AM
 BARR:\AutoCAD 2011\AutoCAD 2011 Support\enu\Template\Bar_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

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.		CLIENT BID CONSTRUCTION PERMIT	03/25/21 04/28/21 06/03/21 04/28/21	04/28/21 06/03/21 06/03/21 04/28/21	Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale Date Drawn Checked Designed Approved	AS SHOWN 06/03/2021 CWF HNH BARR HNH	RILEY PURGATORY BLUFF CREEK WD CHANHASSEN, MN	PIONEER TRAIL WETLAND RESTORATION PROJECT TITLE SHEET, PROJECT LOCATION, AND SHEET INDEX	BARR PROJECT No. 23/27-0053.30B	
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A B C 0 1 2 3	DATE RELEASED			DWG. No. G-01	REV. No. C

1.0 GENERAL CONSTRUCTION ACTIVITY INFORMATION:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM.

THE PROJECT IS LOCATED IN THE CITY OF CHANHASSEN, WITHIN THE RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT, MINNESOTA. PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHIN THE NE ¼ OF SECTION 26 AND THE NE ¼ OF SECTION 25, T116N, R23W, THE APPROXIMATE CENTROID IS AT LATITUDE OF 44.826 AND A LONGITUDE: -93.542.

THIS PROJECT IS A WETLAND RESTORATION PROJECT, RESTORING HYDROLOGY TO AS CLOSE TO THE PREDEVELOPMENT CONDITIONS AS POSSIBLE WHILE NOT NEGATIVELY IMPACTING NEIGHBORING PROPERTIES OR DOWNSTREAM CONDITIONS, AND ENHANCE FLOOD DETENTION TO REDUCE DISCHARGES TO BLUFF CREEK WHICH IS IMPAIRED FOR TURBIDITY WHICH IS DIRECTLY RELATED TO FLOWS. THE PURPOSE OF THE PROJECT IS TO CONTROL FLOW THROUGH THE SYSTEM TO PREVENT FLOODING AND PROTECT THE WATERS WITHIN THE WATERSHED. THE PROJECT WORK INCLUDES MOBILIZATION AND DEMOBILIZATION, REMOVAL OF EXISTING STORM SEWER PIPING, DRAIN TILE, AND RETAINING WALL AND REPLACING IT WITH NEW TRIPLE 18" HDPE OUTLET PIPING WITH RIPRAP ENDS, INSTALLATION OF AGRI-DRAIN ON DRAINTILE, STRIPING AND SALVAGING OF EXISTING TOP SOIL AND HYDRIC SOILS, EXCAVATION OF SEDIMENTATION BASIN, INSTALLATION OF TRM ON OVERFLOW, REMOVAL OF EXISTING MOUND SYSTEM, REMOVAL OF EXISTING FENCING, REMOVAL OF EXISTING BITUMINOUS DRIVEWAY PAVEMENT, REMOVAL OF EXISTING GRAVEL DRIVEWAY, CLEARING AND GRUBBING FOR CONTOUR GRADING ALONG WETLAND EDGE, EXCAVATION AND REMOVAL FILL AND HIGH SPOTS, CONTROL OF WATER AND DEWATERING, SITE RESTORATION WITH NATIVE SEED MIXES, PLANTS, AND TREES, TEMPORARY AND PERMANENT EROSION CONTROL BMP'S. THE PROJECT AS PROPOSED HAS A TOTAL DISTURBANCE AREA OF 1.79 ACRES. THE PROJECT IS OVER ONE ACRE OF DISTURBED AREA AND REQUIRES A GENERAL AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (NPDES PERMIT), EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE SEDIMENT FROM BEING TRANSPORTED DOWNSTREAM TO BLUFF CREEK, WHICH IS LISTED ON THE IMPAIRED WATERS LIST. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT PART III.A.1)

1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE:

- THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY 1.79 ACRES.
- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0.08 ACRES.
- THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0.00 ACRES.
- THERE IS A DECREASE OF IMPERVIOUS AREA IN THIS PROJECT

1.2 DATES OF CONSTRUCTION:

- ANTICIPATED START DATE: TBD ANTICIPATED END DATE: TBD

1.3 CONTACT INFORMATION:

OWNER: RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
MAILING ADDRESS: 18681 LAKE DRIVE E.
CHANHASSEN, MN 55317

CONTACT PERSON: TERRY JEFFERY
PHONE NUMBER: 952-807-6885
ALTERNATE CONTACT PERSON: SCOTT SOBIECH
PHONE NUMBER: 952-832-2755

TITLE: WATERSHED PROJECT MANAGER
EMAIL ADDRESS: tjeffery@rpbcwd.org
TITLE: WATERSHED ENGINEER
EMAIL ADDRESS: SSOBIECH@BARR.COM

OPERATOR / GENERAL CONTRACTOR (WILL OVERSEE IMPLEMENTATION OF THE SWPPP): [INSERT NAME]
MAILING ADDRESS: [INSERT ADDRESS]
CONTACT PERSON: [INSERT NAME] TITLE: [INSERT TITLE]
PHONE NUMBER: [INSERT NUMBER] EMAIL ADDRESS: [INSERT ADDRESS]

PARTY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM:

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT, 18681 LAKE DRIVE E., CHANHASSEN, MN, 55317.

2.0 RECEIVING WATERS:

WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE (CSW PERMIT ITEM 5.10) INCLUDE:

NAME OF WATER BODY	TYPE	WATER BODY ID	SPECIAL WATER?	IMPAIRED WATER? (1)	PUBLIC WATER WITH WORK IN WATER RESTRICTIONS?
BLUFF CREEK	CREEK	07020012-10	NO	YES	YES

(1) REFER TO CSW PERMIT SECTION 23. IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE BIOASSESSMENT)

2.1 SPECIAL AND IMPAIRED WATERS: THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. BLUFF CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR: FISHES BIOASSESSMENTS; TURBIDITY. THESE IMPAIRMENTS ARE CONSIDERED TO BE CONSTRUCTION RELATED PARAMETERS AND REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPs) FOUND IN ITEMS 23.9 AND 23.10 OF THE PERMIT IF THE PROJECT HAS A DISCHARGE POINT ON THE PROJECT WITHIN 1 MILE (AERIAL RADIUS MEASUREMENT) OF, AND FLOWS TO THE IMPAIRED STREAM. (CSW PERMIT ITEM 2.7 AND SECTION 23)

THIS PROJECT DOES NOT INCLUDE ANY ADDITIONAL BMPs OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL). (CSW PERMIT ITEM 5.19)

2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: THIS PROJECT DOES NOT INCLUDE WORK IN PUBLIC WATERS. (CSW PERMIT ITEM 5.11)

2.3 WETLAND IMPACTS: THIS PROJECT IS A WETLAND RESTORATION PROJECT WHICH WILL REQUIRE WORKING WITHIN THE WETLAND AREA AND WILL RESULT IN IMPACTS TO THE WETLANDS, INCLUDING EXCAVATION, REMOVAL OF FILL, AND REMOVAL OF DEBRIS. IS THERE A PERMIT OR APPROVAL FOR WORKING IN THE WETLAND? (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: STORMWATER MITIGATION MEASURES ARE NOT REQUIRED AS A RESULT OF AN ENVIRONMENTAL REVIEW (E.G., EAW OR EIS), ENDANGERED OR THREATENED SPECIES REVIEW, ARCHEOLOGICAL SITE REVIEW, OR OTHER LOCAL, STATE, OR FEDERAL REVIEW CONDUCTED FOR THE PROJECT. (CSW PERMIT ITEMS 2.8, 2.9, AND 5.16)

2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: THIS PROJECT DOES NOT INCLUDE ANY KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

3.0 PROJECT PLANS AND SPECIFICATIONS:

REQUIRED FEATURE	SHEET NUMBER
• PROJECT LOCATION AND CONSTRUCTION LIMITS	G-01, C-01
• EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE WATER	C-03
• SOIL TYPES AT THE SITE	C-01
• LOCATIONS OF IMPERVIOUS SURFACES	C-01, C-03
• LOCATIONS OF AREAS NOT BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.)	C-01, C-03
• LOCATIONS OF AREAS OF STEEP SLOPES	C-01, C-03
• LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOILS	C-01, C-03
• PORTIONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER RESTRICTIONS FOR FISH SPAWNING TIMEFRAMES	C-01
• LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19	C-01, C-03
• BUFFER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11	C-01, C-03
• LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT SECTION 12	C-02, C-08
• STANDARD DETAILS FOR EROSION AND SEDIMENT CONTROL BMPs TO BE INSTALLED AT THE SITE	

4.0 BEST MANAGEMENT PRACTICES (BMPs):

4.1 EROSION PREVENTION PRACTICES:

- BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.
- TEMPORARY STABILIZATION OF SOILS AND SOIL STOCKPILES: (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9)
 - AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH EROSION CONTROL BLANKET, PRESERVATION OF MATURE VEGETATION, OR EQUIVALENT MEASURES.
 - IF PRESENT, SOIL STOCKPILES WILL BE STABILIZED WITH MULCH, STRAW, OR PLASTIC SHEETING, OR EQUIVALENT MEASURES.
 - TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
- STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS: (CSW PERMIT ITEMS 8.6 THROUGH 8.8)
 - IF SOILS WITHIN EXISTING STORMWATER DITCHES OR SWALES ARE DISTURBED, THEY WILL BE STABILIZED WITH EROSION CONTROL BLANKET, RIPRAP, OR EQUIVALENT MEASURES.
 - MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
 - THE LAST 200 LINEAL FEET OF LENGTH OF THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WILL BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
 - STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED.
- ENERGY DISSIPATION AT PIPE OUTLETS: ENERGY DISSIPATION AT PIPE OUTLETS WILL BE PROVIDED WITH ONE OR MORE OF THE FOLLOW METHODS: RIP RAP, SPLASH PADS, GABIONS, OR EQUIVALENT MEASURES. (CSW PERMIT ITEM 8.9)
- EROSION PREVENTION IMPLEMENTATION TIMELINES: (CSW PERMIT ITEMS 5.4, 8.4 THROUGH 8.6, AND 23.9)
 - STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - IF THE EXPOSED SOIL AREAS DRAIN TO A DISCHARGE POINT THAT IS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF A SPECIAL OR IMPAIRED WATER (SEE SECTION 2.0), STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS.
 - THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION: PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA, OR SEEDING OR PLANTING THE EXPOSED AREA.
- ADDITIONAL EROSION PREVENTION MEASURES: THE FOLLOWING ADDITIONAL EROSION PREVENTION METHODS WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION: (CSW PERMIT ITEMS 8.2, 8.3, AND 8.10)
 - CONSTRUCTION PHASING WILL BE UTILIZED TO MINIMIZE THE AREA OF SOIL EXPOSED AT ANY ONE TIME.
 - SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION.
 - EXISTING VEGETATION WILL BE PRESERVED WHEREVER POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS NATURAL VEGETATIVE BUFFERS.
 - EXPOSED SOIL ON STEEP SLOPES (≤3H:1V) WILL BE STABILIZED USING EROSION CONTROL BLANKET.

4.2 SEDIMENT CONTROL PRACTICES:

- DOWNGRADIENT PERIMETER CONTROLS: (CSW PERMIT ITEMS 9.2 THROUGH 9.6)
 - SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED UPGRADIENT OF ANY BUFFER ZONES. PERIMETER SEDIMENT CONTROLS WILL INCLUDE: SILT FENCE, SEDIMENT CONTROL LOGS, RETAIN EXISTING VEGETATION WHERE POSSIBLE, BERMS, AND ROCK CHECKS, OR EQUIVALENT MEASURES.
 - PERIMETER SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND REMAIN IN PLACE UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.
 - IF SEDIMENT CONTROL PRACTICES HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE

SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.

- IF THE DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPs TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES.
- SOIL STOCKPILE PERIMETER CONTROLS: TEMPORARY SOIL STOCKPILES WILL BE SURROUNDED BY: SILT FENCE, SEDIMENT CONTROL LOGS, PLASTIC SHEETING, OR EQUIVALENT MEASURES, AND SHALL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS. (CSW PERMIT ITEMS 9.9 AND 9.10)
- STORM DRAIN INLET PROTECTION: (CSW PERMIT ITEMS 9.7 AND 9.8)
 - INLET PROTECTION BMPs WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION ACTIVITIES.
 - STORM DRAIN INLETS WILL BE PROTECTED UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
 - INLET PROTECTION BMPs WILL BE: FILTER SILT FENCE BOX, SEDIMENT CONTROL LOGS, OR EQUIVALENT MEASURES.
- VEHICLE TRACKING BMPs: (CSW PERMIT ITEMS 9.11 AND 9.12)
 - VEHICLE TRACKING BMPs WILL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA AND WILL INCLUDE: ROCK OR WOODCHIP PADS, MUD MATS, OR AN EQUIVALENT SYSTEM.
 - IF SUCH VEHICLE TRACKING BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE PAVED ROAD, STREET SWEEPING WILL ALSO BE EMPLOYED. SEDIMENT WILL BE REMOVED BY SWEEPING WITHIN 24 HOURS.
- MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOPSOIL: SOIL COMPACTION WILL BE MINIMIZED AND TOPSOIL WILL BE PRESERVED WHERE POSSIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15)
- PRIORITIZATION OF ONSITE INFILTRATION AND SEDIMENT REMOVAL: (CSW PERMIT ITEM 9.16)
 - PRIOR TO OFFSITE DISCHARGE, INFILTRATION AND SEDIMENT REMOVAL WILL BE IMPLEMENTED ONSITE WHERE POSSIBLE.
 - DISCHARGES FROM BMPs WILL BE DIRECTED TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, VELOCITY DISSIPATION BMPs WILL BE CONSIDERED AND INSTALLED AS NECESSARY TO PREVENT EROSION.
- BUFFER ZONE OR REDUNDANT SEDIMENT CONTROLS TO PROTECT SURFACE WATERS: (CSW PERMIT ITEM 9.17)
 - A 50-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND. IF A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED.
 - REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE.
- SEDIMENTATION TREATMENT CHEMICALS: NOT APPLICABLE; USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) IS NOT ANTICIPATED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 5.22 AND 9.18)
- TEMPORARY SEDIMENT BASIN(S): THE PROJECT WILL NOT INCLUDE 10 OR MORE ACRES OF DISTURBED SOIL DRAINING TO A COMMON LOCATION OR 5 OR MORE ACRES DRAINING TO A COMMON LOCATION WITHIN 1 MILE OR A SPECIAL OR IMPAIRED WATER THEREFORE TEMPORARY SEDIMENT BASINS ARE NOT REQUIRED. (CSW PERMIT ITEMS 5.6, 9.13, AND 23.10 AND SECTION 14)

4.3 DEWATERING AND BASIN DRAINING: (CSW PERMIT SECTION 10 AND ITEM 10.5)

- THE FOLLOWING WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER DURING DEWATERING: FILTER BAGS, OR EQUIVALENT MEASURES.
- THE FOLLOWING WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS DURING DEWATERING OR BASIN DRAINING: RIPRAP OR TURF REINFORCEMENT MAT, OR EQUIVALENT MEASURES.
- FILTERS FOR BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED OF BY: HAULING OFF SITE OR EQUIVALENT MEASURES.

4.4 BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPs:

- EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION: APPROXIMATELY 2.4 INCHES OF PRECIPITATION FROM THE 1-YEAR, 24 HOUR STORM EVENT (ATLAS 14).
- NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES: RUN OFF FROM EXISTING PAVED ROAD DITCHES.
- STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS: RIPRAP PROTECTION AT RUN OFF DISCHARGE POINTS.
- RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT: CLAY, SANDY CLAY, SANDY SILT, SILTY SAND, SAND, AND GRAVEL.

4.5 BMP QUANTITIES: ANTICIPATED EROSION PREVENTION AND SEDIMENT CONTROL BMP QUANTITIES NEEDED FOR THE LIFE OF THE PROJECT: APPROXIMATELY ????? FEET OF A COMBINATION OF SILT FENCE AND SEDIMENT LOGS, ? ROCK CHECK, ??? ACRE OF SEED AND BLANKET, (SEE PROJECT BID FORM FOR MORE DETAILS).

(SEE PAGE 2 OF 2)

100% ISSUED FOR BID

CADD USER: CHAD.W. FRUIT FILE: M:\DESIGN\23270053.1\1030_PIONEER_WETLAND\23270053.30B_G-02-3_SWPPP.DWG PLOT SCALE: 1:1 PLOT DATE: 5/24/2021 9:40 AM

				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.				CLIENT 03/25/21 04/28/21 BID 06/03/21 CONSTRUCTION PERMIT 04/28/21				 Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Ph: (952) 832-2601 www.barr.com				Scale AS SHOWN		Date 06/03/2021		Drawn JNB		Checked HNH		Designed BARR		Approved HNH				
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION				RELEASED TO/FOR	A	B	C	0	1	2	3	RILEY PURGATORY BLUFF CREEK WD				PIONEER TRAIL WETLAND RESTORATION PROJECT				BARR PROJECT No. 23/27-0053.30B					
																	CHANHASSEN, MN				STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PAGE 1 OF 2				CLIENT PROJECT No.		DWG. No. G-02		REV. No. C	

5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM:

A PERMANANT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULTS IN A NET INCREASE OF ONE OR MORE ACRES OF CUMMULATIVE NEW IMPERVIOUS SURFACES IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT ITEM 15.3)

5.1 A PERMANENT STORMWATER TREATMENT SYSTEM IS NOT REQUIRED FOR THIS PROJECT, THERE WILL BE A DECREASE IN IMPERVIOUS SURFACE. (CSW PERMIT ITEMS 5.15, 15.4-15.9, AND 23.14)

5.6 THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM (OR A TRIBUTARY TO A TROUT STREAM). (CSW PERMIT ITEM 23.12)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.9 AND SECTION 21)

THESE INDIVIDUALS WILL BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT, INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES.

BELOW IS A LIST OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS.

TRAINED INDIVIDUAL	RESPONSIBILITY	TRAINING ENTITY*	TRAINING DATE
JACOB N. BURGGRAFF BARR ENGINEERING CO. 4300 MARKETPOINTE DR. BLOOMINGTON, MN 55435 952-832-2743 JBURGGRAFF@BARR.COM	PREPARATION OF THE SWPPP	DESIGN OF CONSTRUCTION SWPPPS U OF MN, APRIL 2008, UPDATED NOV. 2010, MARCH 2014, MAY 2017 EXPIRES MAY 31, 2020	MAY 2018

TBD	OVERSIGHT OF SWPPP IMPLEMENTATION, REVISION, AND AMMENDMENT	TBD	
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[INSERT NAME]	PERFORMANCE OF SWPPP INSPECTIONS	[INSERT ENTITY]	[INSERT DATE]
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[INSERT NAME]	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPS	[INSERT ENTITY]	[INSERT DATE]
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*TRAINING DOCUMENTATION AVAILABLE UPON REQUEST.

6.2 FREQUENCY OF INSPECTIONS: A TRAINED PERSON WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE. (CSW PERMIT ITEMS 11.2, 11.10, AND 23.13)

- AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION
- WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES:

- WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH.
- WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES.
- WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.

6.3 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION OF THE FOLLOWING AREAS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES
- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF SEDIMENT

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS WILL BE PERFORMED AS FOLLOWS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- NONFUNCTIONAL BMPS WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- PERIMETER CONTROL DEVICES WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE.
- TEMPORARY AND PERMANENT SEDIMENTATION BASINS WILL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME.
- DELTA AND SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED, AND THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL WILL BE RE-STABILIZED. THE REMOVAL AND STABILIZATION WILL BE COMPLETED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED DUE TO ACCESS CONSTRAINTS, REASONABLE EFFORTS TO OBTAIN ACCESS WILL BE USED. REMOVAL AND STABILIZATION WILL TAKE PLACE WITHIN 7 CALENDAR DAYS OF OBTAINING ACCESS.
- TRACKED SEDIMENT ON PAVED SURFACES WILL BE REMOVED WITHIN 1 CALENDAR DAY OF DISCOVERY.
- AREAS UNDERGOING STABILIZATION WILL BE RESTABILIZED AS NECESSARY TO ACHIEVE REQUIRED COVER.

6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20)

- ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING

CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR EACH EVENT.

- IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) WILL BE DOCUMENTED AND A PHOTOGRAPH WILL BE TAKEN.
- THE SWPPP WILL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPS TO CORRECT PROBLEMS OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
 - THE SWPPP WILL BE AMENDED WHEN INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER, OPERATOR, OR CONTRACTORS OR BY USEPA/MPCA OFFICIALS INDICATE THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER; THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR THE SWPPP IS NOT CONSISTENT WITH A USEPA APPROVED TMDL.
 - ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION WILL BE DOCUMENTED AS REQUIRED WITHIN 7 CALENDAR DAYS.
 - AMENDMENTS WILL BE COMPLETED BY AN APPROPRIATELY TRAINED INDIVIDUAL. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP WILL INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
 - RECORDS RETENTION: THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS WILL BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER A FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.
 - RECORD AVAILABILITY: THE PERMITTEES WILL MAKE THE SWPPP, INCLUDING INSPECTION REPORTS, MAINTENANCE RECORDS, AND TRAINING RECORDS, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.
 - COPIES OF INSPECTION RECORDS FOR THE TIME PERIOD OF THAT PAYMENT APPLICATION SHALL ACCOMPANY THE PAYMENT APPLICATION TO THE RAMSEY-WASHINGTON METRO WATERSHED DISTRICT.

7.0 POLLUTION PREVENTION MEASURES:

- ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.2)
- PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING, TEMPORARY ROOFS, WITHIN A BUILDING, OR IN WEATHER-PROOF CONTAINERS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.3)
- HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) WILL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE). HAZARDOUS MATERIALS WILL BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
- SOLID WASTE WILL BE COLLECTED, STORED, AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.5)
- PORTABLE TOILETS WILL BE LOCATED AWAY FROM SURFACE WATERS AND POSITIONED AND SECURED TO THE GROUND SO THEY WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE WILL BE DISPOSED OF IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 7041. PORTABLE TOILETS WILL BE PERIODICALLY EMPTIED AND THE WASTE HAULED OFF-SITE BY A LICENSED HAULER. (CSW PERMIT ITEM 12.6)
- VEHICLE FUELING WILL ONLY OCCUR IN DESIGNATED AREAS. SPILL KITS SIZED APPROPRIATELY FOR THE AMOUNT OF REFUELING TAKING PLACE WILL BE LOCATED. SPILL KITS WILL BE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP INCLUDING ABSORBENT PADS, BOOMS FOR CONTAINING SPILLS, AND HEAVY-DUTY PROTECTIVE GLOVES. SPILLS WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)
 - ANY FUEL TANKS BROUGHT ON-SITE WILL HAVE PROPERLY SIZED CONTAINMENT AND WILL NOT BE TOPPED OFF TO AVOID SPILLS FROM OVERFILLING. FUEL TANKS WILL MEET INDUSTRY STANDARDS (DESIGNED TO HOLD FUEL TYPE, PROPERLY MAINTAINED, NOT ILLEGALLY MODIFIED, NOT MISSING LEAK INDICATOR FLOATS FOR DOUBLE WALLED TANKS, SIGHT GAUGES NOT USED, ETC.) OR BE REMOVED FROM THE WORK AREA.
 - GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE:
 - TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFESIBLE;
 - PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES;
 - INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION;
 - DO NOT WASH OR RINSE FUELING AREAS WITH WATER;
 - MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS;
 - REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE; AND
 - MAINTAIN COPIES OF SAFETY DATA SHEETS (SDSS) FOR HAZARDOUS MATERIALS ON-SITE IN LOCATIONS READILY AVAILABLE TO EMERGENCY RESPONDERS.
- IF VEHICLE AND EQUIPMENT WASHING IS NECESSARY, A VEHICLE WASH STATION WILL BE LOCATED IN A DESIGNATED AREA. RUNOFF FROM THE WASHING AREA WILL BE CONTAINED IN A SEDIMENT BASIN AND WASTE FROM THE WASHING ACTIVITY WILL BE PROPERLY DISPOSED OF. ANY SOAPS, DETERGENTS, OR SOLVENTS WILL BE PROPERLY USED AND STORED. ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE WILL NOT BE USED. (CSW PERMIT ITEMS 2.3 AND 12.8)
- THE PROJECT WILL NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. IF NECESSARY, A DESCRIPTION OF THE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES SO THAT WASTES DO NOT CONTACT THE GROUND WILL BE ADDED. (CSW PERMIT ITEMS 2.3 AND 12.9)

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

- THE AREAS DISTURBED DURING CONSTRUCTION WILL BE STABILIZED WITH PERMANENT COVER UPON

COMPLETION OF WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE, AS APPROPRIATE. ESTABLISHMENT OF PERMANENT COVER MAY INCLUDE THE FOLLOWING ACTIVITIES: A COMBINATION OF SEEDING AND EROSION CONTROL BLANKET. (CSW PERMIT ITEM 5.17)

- FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE: (CSW PERMIT SECTIONS 4 AND 13)
 - ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS. VEGETATIVE COVER CONSISTS OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER).
 - ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.
 - ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.

WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE COMPLETE, A NOTICE OF TERMINATION (NOT) FORM WILL BE SUBMITTED TO THE MPCA.

100% ISSUED FOR BID

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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.	
PRINTED NAME	HEATHER N. HLAVATY
SIGNATURE	
DATE	06/03/2021
LICENSE #	58700

CLIENT	03/25/21	04/28/21							
BID			06/03/21						
CONSTRUCTION PERMIT		04/28/21							
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

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Scale	AS SHOWN
Date	06/03/2021
Drawn	JNB
Checked	HNH
Designed	BARR
Approved	HNH

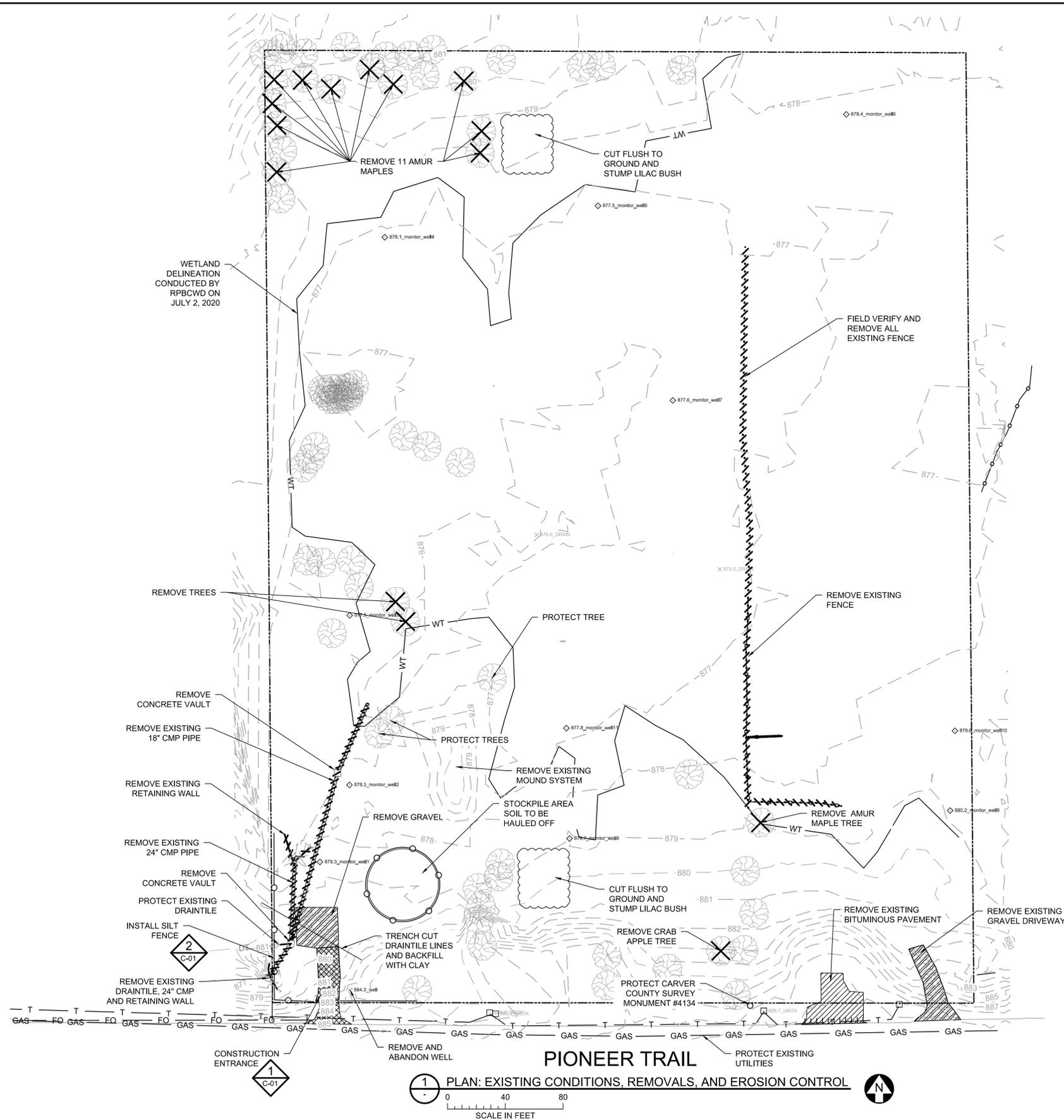
RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MN

PIONEER TRAIL WETLAND RESTORATION PROJECT
 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PAGE 2 OF 2

BARR PROJECT No. 23/27-0053.30B	
CLIENT PROJECT No.	
DWG. No. G-03	REV. No. C

CADD USER: Chad W. Fuhl FILE: M:\DESIGN\23270053.1\1030_PIONEER_WETLAND\23270053.30B_C-01_EXISTING_REMOVAL_EROSION PLAN.DWG PLOT SCALE: 1:1 PLOT DATE: 5/24/2021 9:41 AM

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1 PLAN: EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL
 SCALE IN FEET
 0 40 80

LEGEND	
--- 915 ---	EXISTING MAJOR CONTOUR
--- 915 ---	EXISTING MINOR CONTOUR
---	EXISTING PROPERTY LINE
WT	EXISTING DELINEATED WETLAND
GAS	EXISTING GAS LINE
FO	EXISTING FIBER OPTIC
SAN	EXISTING TELEPHONE
COM	EXISTING FENCE LINE
W	EXISTING DRAINTILE
OE	EXISTING ELECTRIC LINE
(Tree symbol)	EXISTING TREE
(Diamond symbol)	EXISTING MONITORING WELL
(Square symbol)	EXISTING UTILITY BOX
---	CONSTRUCTION LIMITS
(Circle symbol)	SILT FENCE
(Zigzag symbol)	REMOVAL
(X symbol)	EXISTING TREE (REMOVAL)
(Dotted area)	CLEAR AND GRUB LILAC SHRUBS
(Diagonal lines)	BITUMINOUS PAVEMENT REMOVAL
(Cross-hatch)	GRAVEL DRIVEWAY REMOVAL
(Grid pattern)	CONSTRUCTION ENTRANCE

EROSION & SEDIMENT CONTROL NOTES:

- NATURAL TOPOGRAPHY AND SOIL CONDITIONS MUST BE PROTECTED, INCLUDING RETENTION ONSITE OF NATIVE TOPSOIL TO THE GREATEST EXTENT POSSIBLE. ANY NATIVE TOPSOIL THAT IS STRIPPED AND STOCKPILED FOR REUSE ONSITE SHOULD BE TEMPORARILY COVERED WITH MULCH UNTIL REPLACED ONSITE.
- ADDITIONAL MEASURES, SUCH AS HYDRAULIC MULCHING AND OTHER PRACTICES AS SPECIFIED BY THE DISTRICT MUST BE USED ON SLOPES OF 3:1 (H:V) OR STEEPER TO PROVIDE ADEQUATE STABILIZATION.
- FINAL SITE STABILIZATION MEASURES MUST INCORPORATE AT LEAST SIX INCHES OF TOPSOIL AS SPECIFIED INTO THE UNDERLYING SOIL DURING FINAL SITE TREATMENT WHEREVER TOPSOIL HAS BEEN REMOVED.
- CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED SUFFICIENTLY TO ENSURE STABILITY OF THE SITE, AS DETERMINED BY THE DISTRICT.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE REMOVED UPON FINAL STABILIZATION.
- SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE:
 - A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF THE SOIL.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS AFTER LAND-DISTURBING WORK HAS TEMPORARILY OR PERMANENTLY CEASED ON A PROPERTY THAT DRAINS TO AN IMPAIRED WATER.
- 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 AND AT LEAST WEEKLY UNTIL LAND-DISTURBING ACTIVITY HAS CEASED. THEREAFTER, THE PERMITTEE MUST PERFORM THESE RESPONSIBILITIES AT LEAST WEEKLY UNTIL VEGETATIVE COVER IS ESTABLISHED. THE PERMITTEE WILL MAINTAIN A LOG OF ACTIVITIES UNDER THIS SECTION FOR INSPECTION BY THE DISTRICT ON REQUEST.
- AS SHOWN, THESE ARE THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES NEEDED FOR THE SITE.
- ACTIVITIES MUST BE CONDUCTED SO AS TO MINIMIZE THE POTENTIAL TRANSFER OF AQUATIC INVASIVE SPECIES (e.g. ZEBRA MUSSELS, EURASIAN WATERMILFOIL, ETC.) TO THE MAXIMUM EXTENT POSSIBLE.

GENERAL NOTES:

- REMOVAL AND DISPOSAL OF ALL MISCELLANEOUS DEBRIS AND REFUSE FROM ALL AREAS WITHIN CONSTRUCTION LIMITS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS (INCIDENTAL)
- PROTECT EXISTING TREES UNLESS IDENTIFIED FOR REMOVAL.
- PROTECT EXISTING MONITORING WELLS.

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PRINTED NAME: HEATHER N. HAVATY
 SIGNATURE: *Heather N. Havaty*
 DATE: 06/03/2021 LICENSE #: 58700

CLIENT	03/25/21	04/20/21							
BID									
CONSTRUCTION PERMIT									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

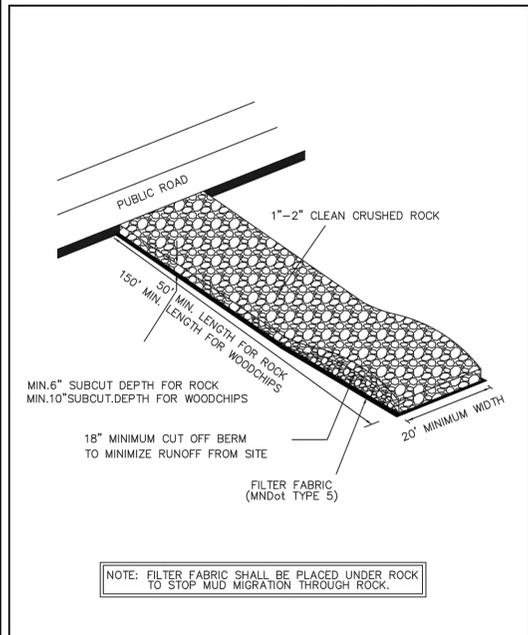
BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435
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 Fax: (952) 832-2601
 www.barr.com

Scale	AS SHOWN
Date	06/03/2021
Drawn	CWF
Checked	HNH
Designed	BARR
Approved	HNH

RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MN

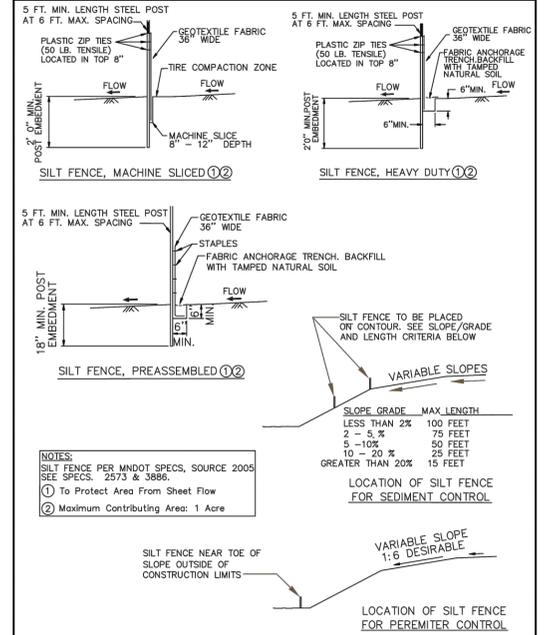
PIONEER TRAIL WETLAND RESTORATION PROJECT
 EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL PLAN

BARR PROJECT No.	23/27-0053.30B
CLIENT PROJECT No.	
DWG. No.	C-01
REV. No.	C



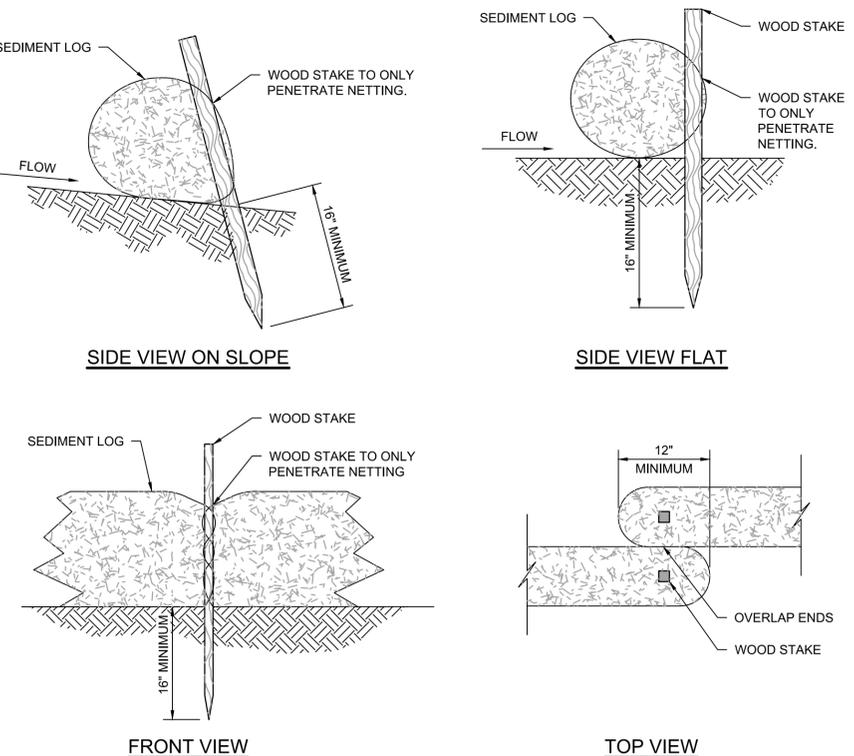
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REVISED: 12-19 FILE NAME: G:\ENG\SPCS\5301	ENGINEERING DEPARTMENT	PLATE NO.: 5301	

1
C-01 **DETAIL: ROCK CONSTRUCTION ENTRANCE**

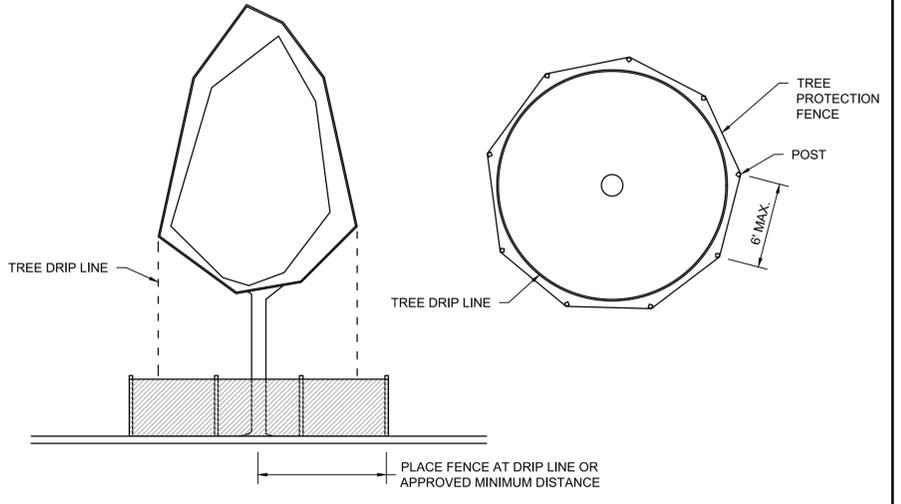


		SILT FENCE	
REVISED: 3-12 FILE NAME: G:\ENG\SPCS\5300	ENGINEERING DEPARTMENT	PLATE NO.: 5300	

2
C-01 **DETAIL: SILT FENCE**



- 3**
C-01 **DETAIL: SEDIMENT LOG - STAKING**
NOT TO SCALE
- NOTES:**
- INSTALL SEDIMENT LOG ALONG CONTOURS (CONSTANT ELEVATION).
 - NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
 - REMOVE ACCUMULATED SEDIMENT WHEN REACHING 1/3 OF LOG HEIGHT.
 - MAINTAIN SEDIMENT LOG THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACED AS REQUIRED.



- 4**
C-01 **DETAIL: TREE PROTECTION FENCING**
NOT TO SCALE
- NOTES:**
- TREE PROTECTION FENCING SHALL BE INSTALLED ACCORDING TO PLAN PRIOR TO DEMOLITION OR OTHER SITE WORK. ANY RELOCATION OF THE TREE PROTECTION FENCING TO BE APPROVED BY CITY FORESTER (651.632.5129). TREE PROTECTION FENCING SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROCESS.
 - CONSTRUCTION MATERIALS, STOCKPILES, EQUIPMENT, VEHICLES, AND TEMPORARY FACILITIES SHALL NOT BE STORED OR OPERATED WITHIN THE TREE PROTECTION ZONE.
 - ROOTS OUTSIDE OF THE TREE PROTECTION ZONE EXPOSED OR DAMAGED DURING EXCAVATION OR OTHER CONSTRUCTION ACTIVITY SHALL BE CLEANLY CUT AS DIRECTED BY THE CITY FORESTER.
 - ADDITIONAL TREE PROTECTION MEASURES MAY BE REQUIRED.

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CADD USER: Chrd W. File FILE: M:\DESIGN\23270053.1\1030_PIONEER_WETLAND\23270053.30B_C-02_EROSION CONTROL DETAILS.DWG PLOT SCALE: 1:1 PLOT DATE: 5/24/2021 9:41 AM
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 PRINTED NAME: HEATHER N. HLAVATY
 SIGNATURE: *Heather N. Hlavaty*
 DATE: 06/03/2021 LICENSE # 58700

CLIENT	03/25/21	04/28/21					
BID		06/03/21					
CONSTRUCTION PERMIT		04/28/21					
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 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Ph: 1-800-632-2277

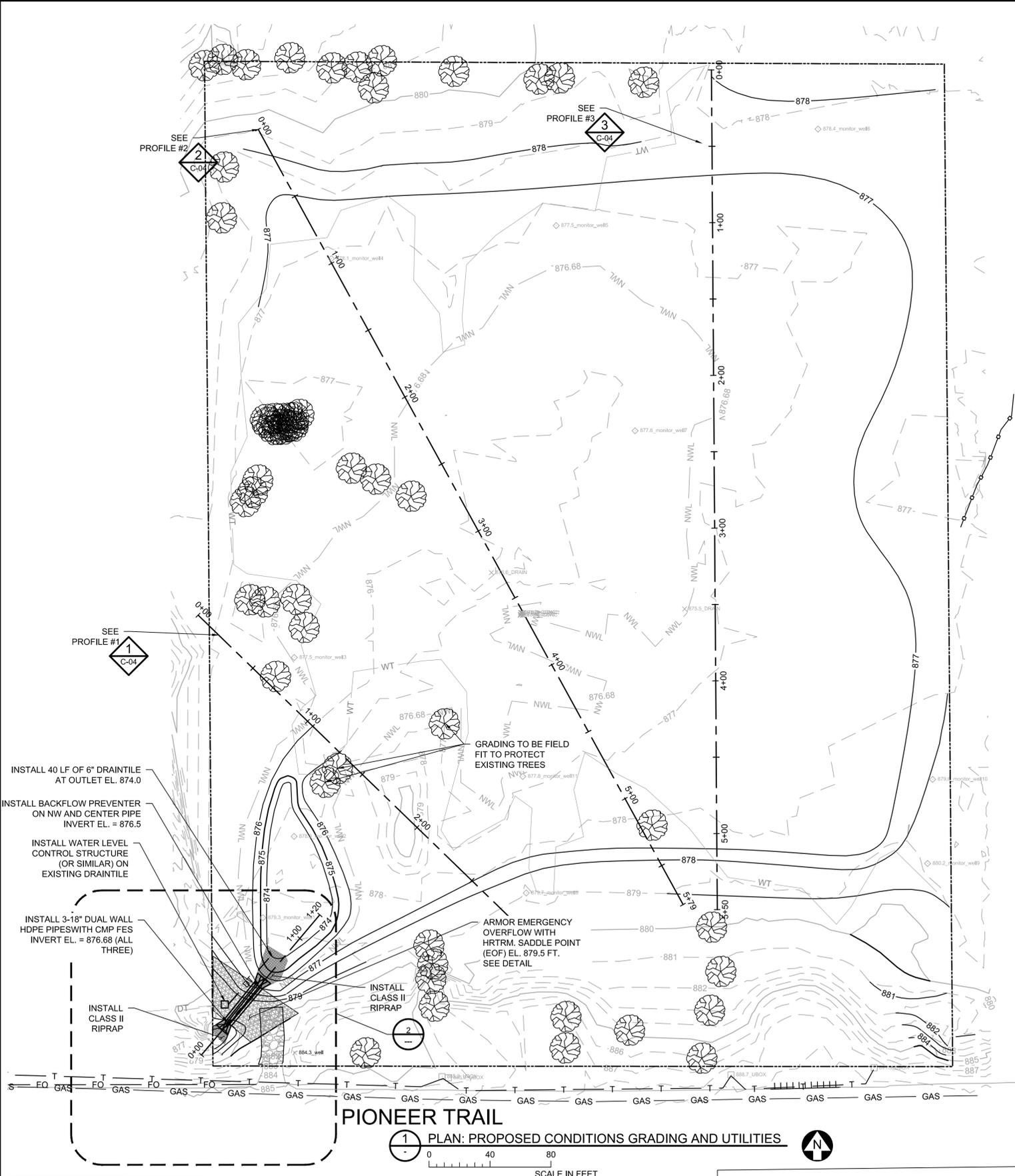
Scale	AS SHOWN
Date	06/03/2021
Drawn	CWF
Checked	HNH
Designed	BARR
Approved	HNH

RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MN

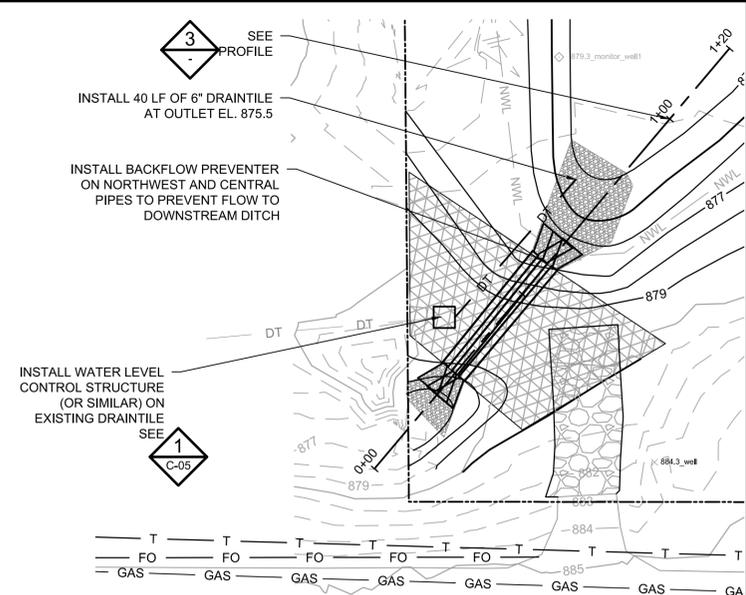
PIONEER TRAIL WETLAND RESTORATION PROJECT
 EROSION CONTROL DETAILS

BARR PROJECT No. 23/27-0053.30B	
CLIENT PROJECT No.	
DWG. No. C-02	REV. No. C

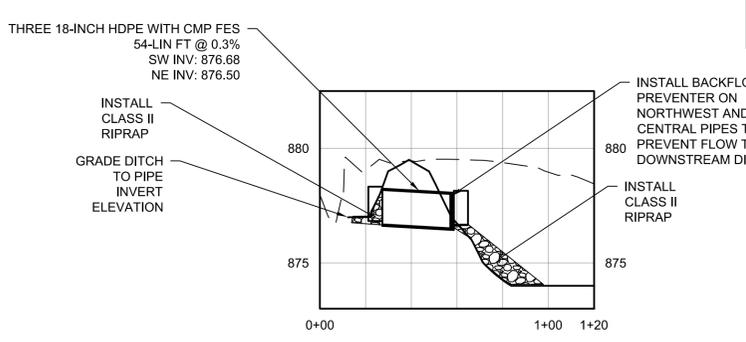
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1 PLAN: PROPOSED CONDITIONS GRADING AND UTILITIES



2 DETAIL: UTILITY STORM SEWER



3 PROFILE: UTILITY STORM SEWER

LEGEND

	EXISTING FIVE-FOOT CONTOUR
	EXISTING ONE-FOOT CONTOUR
	PROPOSED FIVE-FOOT CONTOUR
	PROPOSED ONE-FOOT CONTOUR
	CONSTRUCTION LIMITS
	NORMAL WATER LEVEL EL. 876.68
	PROPOSED DRAINTILE
	PROPOSED HIGH PERFORMANCE TURF REINFORCING MAT
	PROPOSED RIPRAP OUTLET
	EXISTING PROPERTY LINE
	EXISTING DRAINTILE
	EXISTING DELINEATED WETLAND
	EXISTING FIBER OPTICS LINE
	EXISTING GAS LINE
	EXISTING STRUCTURAL FENCE
	EXISTING TREE

- NOTES**
- CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK.
 - ALL EXISTING ROADS, PARKING LOTS, TRAILS, FENCES, AND SIGNS SHALL BE PROTECTED DURING CONSTRUCTION.
 - CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL BMPs PRIOR TO COMMENCEMENT OF WORK. ALL GROUND DISTURBANCE SHALL BE STABILIZED AND RESTORED WITH A MINIMUM OF 6-INCHES OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET. THE TOPSOIL USED FOR RESTORATION MAY BE STOCKPILED FROM GRADING AREAS.
 - GRADE BACK ALL EXISTING DITCH OVERBANKS TO 10:1 SIDE SLOPES
 - TREES TO BE CLEARED OR PROTECTED WILL BE MARKED IN THE FIELD BY ENGINEER AND IN CONSULTATION WITH CITY OF CHANHASSEN.
 - TREES IDENTIFIED BY ENGINEER FOR PROTECTION SHALL BE PROTECTED AGAINST ROOT COMPACTION, DAMAGE, AND DISFIGUREMENT. CONTRACTOR SHALL PROTECT THESE TREES IN ACCORDANCE WITH MNDOT SPEC. 2572. PROTECTION OF TREES NOT IDENTIFIED TO BE REMOVED SHALL BE INCIDENTAL.
 - TRASH, PRIMARILY CONSISTING OF METAL DEBRIS, TO BE REMOVED AS DISCOVERED IN PROJECT REACH.
 - REMOVAL AND DISPOSE OF ALL MISCELLANEOUS DEBRIS AND REFUSE FROM ALL AREAS WITHIN CONSTRUCTION LIMITS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS (INCIDENTAL).
 - COMPACTED SOIL MUST BE DECOMPACTED TO A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF SOIL.
 - ALL EXCAVATED MATERIALS (SOILS, VEGETATION, ETC.) WITHIN THE DELINEATED WETLAND MUST BE EXCAVATED, PLACED IN TRUCKS (OR SIMILAR) AND HAULED OUTSIDE THE WETLAND DELINEATION. NO BLADING OR PUSH OF MATERIAL WITHIN THE WETLAND WILL BE ALLOWED. NO MATERIALS MAY BE STOCKPILED (TEMPORARY OR PERMANENTLY) WITHIN THE DELINEATED WETLAND.

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 PRINTED NAME: HEATHER N. HLAVATY
 SIGNATURE:
 DATE: 06/03/2021 LICENSE # 58700

CLIENT	03/25/21	04/28/21				
BID		06/03/21				
CONSTRUCTION PERMIT		04/28/21				
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DATE RELEASED						

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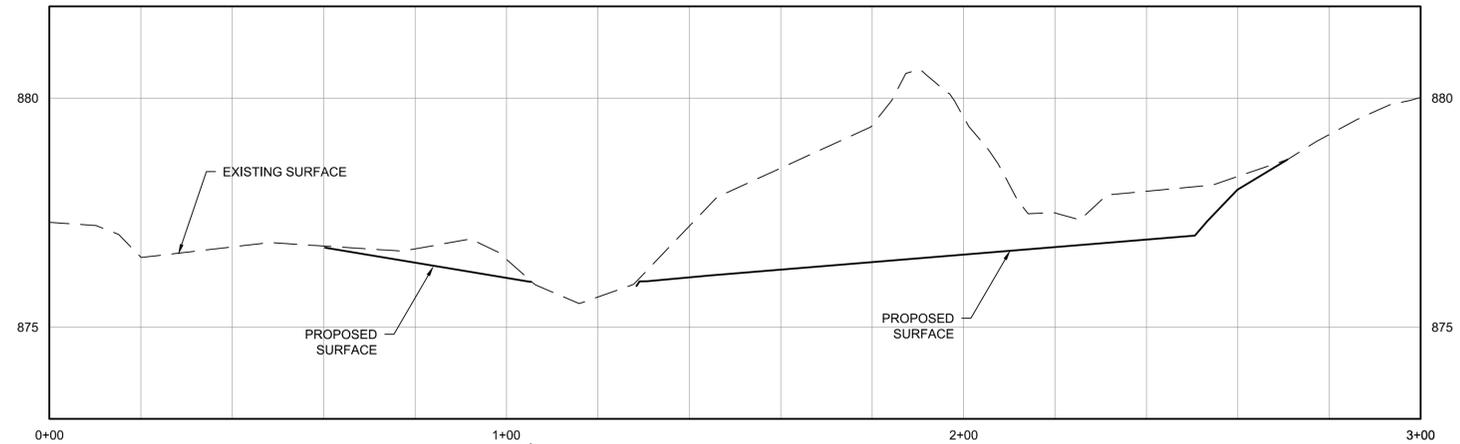
Scale	AS SHOWN
Date	06/03/2021
Drawn	CWF
Checked	HNH
Designed	BARR
Approved	HNH

RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MN

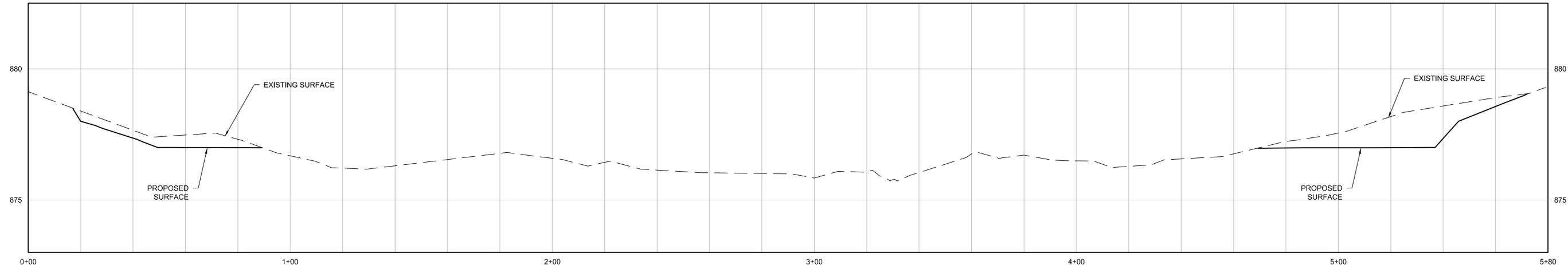
PIONEER TRAIL WETLAND RESTORATION PROJECT
 SITE GRADING AND UTILITY PLAN

BARR PROJECT No.	23/27-0053.30B
CLIENT PROJECT No.	
DWG. No.	C-03
REV. No.	C

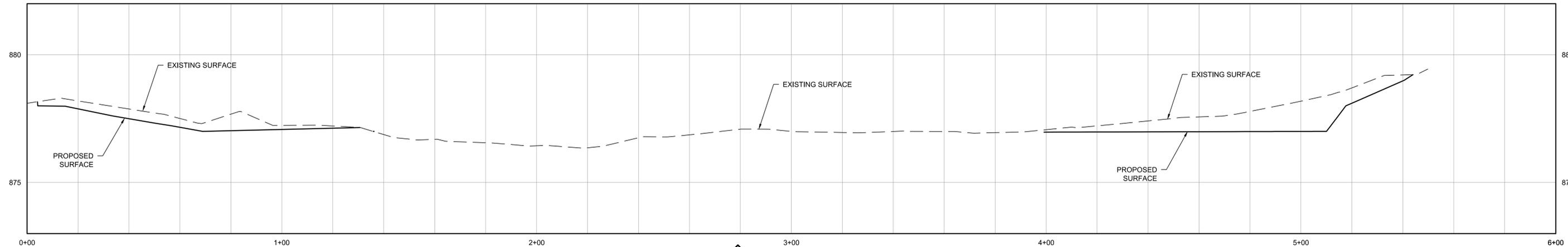
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1 PROFILE: #1
 C-03 0 20 40 0 2 4
 HORT. SCALE IN FEET VERT. SCALE IN FEET



2 PROFILE: #2
 C-03 0 20 40 0 2 4
 HORT. SCALE IN FEET VERT. SCALE IN FEET



3 PROFILE: #3
 C-03 0 20 40 0 2 4
 HORT. SCALE IN FEET VERT. SCALE IN FEET

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 SIGNATURE: *Heather N. Hlavaty*
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CLIENT	BID	CONSTRUCTION	PERMIT	RELEASED TO/FOR	DATE RELEASED
03/25/21	04/28/21	06/03/21	04/28/21	A B C 0 1 2 3	

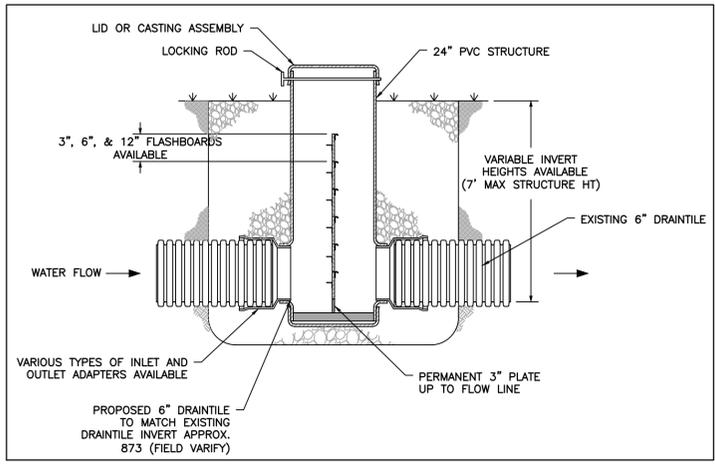
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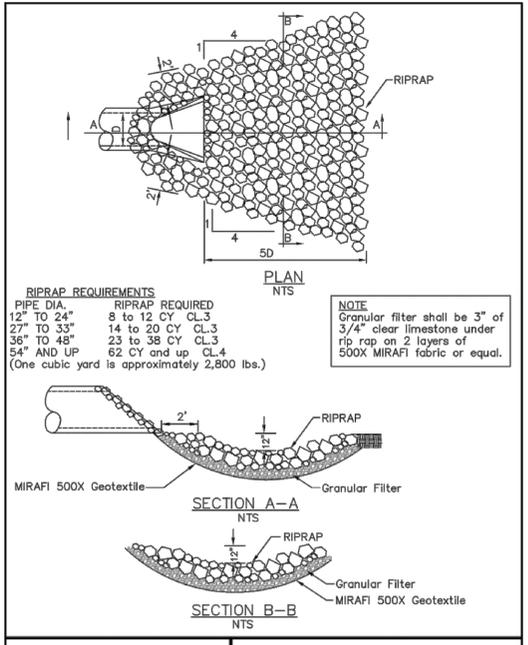
RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MN

PIONEER TRAIL WETLAND RESTORATION PROJECT
 SITE GRADING PROFILES

BARR PROJECT No. 23/27-0053.30B	
CLIENT PROJECT No.	
DWG. No. C-04	REV. No. C



1
C-03
DETAIL: WATER LEVEL CONTROL STRUCTURE
NOT TO SCALE



RIP RAP REQUIREMENTS

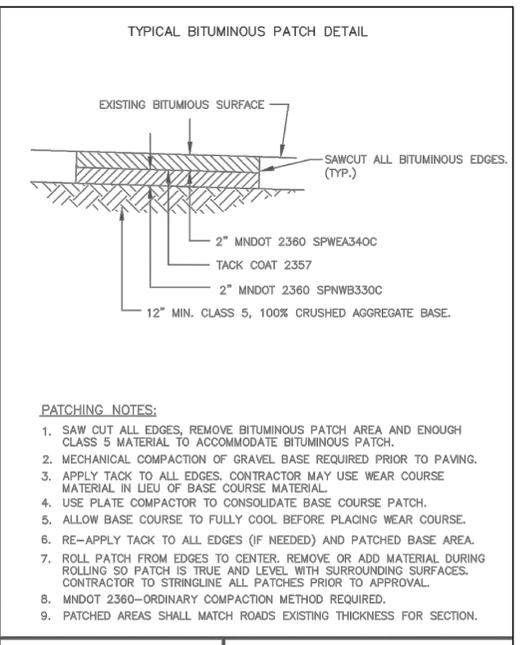
PIPE DIA.	RIP RAP REQUIRED
12" TO 24"	8 TO 12 CY CL-3
27" TO 33"	14 TO 20 CY CL-3
36" TO 48"	23 TO 38 CY CL-3
54" AND UP	62 CY AND UP CL-4

(One cubic yard is approximately 2,800 lbs.)

NOTE
Granular filter shall be 3/4" of 3/4" clear limestone under rip rap on 2 layers of 500X MIRAFI fabric or equal.

CITY OF CHANHASSEN
RIP RAP DETAIL
REVISD: 12-19
FILE NAME: G:\ENG\SPCS\3107
ENGINEERING DEPARTMENT
PLATE NO.: 3107

2
C-03
DETAIL: RIP-RAP (TYP.)
NOT TO SCALE



CITY OF CHANHASSEN
TYPICAL STREET PATCHING BITUMINOUS
REVISD: 3-19
FILE NAME: G:\ENG\SPCS\5202A
ENGINEERING DEPARTMENT
PLATE NO.: 5202A

3
C-03
DETAIL: STREET PATCHING BITUMINOUS (TYP.)
NOT TO SCALE

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BARR:\AutoCAD 2011\AutoCAD 2011\Support\enu\Template\Bar_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

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GENERAL NOTE:

ALL PLANT STOCK SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) SPECIFICATIONS

BALLED & BURLAPPED AND CONTAINER GROWN STOCK

A4. Plant Stock Specifications

- All plant stock shall conform to American Standard for Nursery Stock.
- A minimum of three structural roots reasonably distributed around the trunk shall be found in each plant. Plants with structural roots on only one side of the trunk (J roots) shall be rejected.
- The root crown must not be more than two inches below the soil line. The top two structural roots shall be no more than three inches below the soil line when measured four inches radial to the trunk. The top of the other structural root shall be no greater than five inches below the soil line when measured four inches radial to the trunk. The grower may request a modification to this requirement for species with roots that rapidly descend, provided that the grower removes all circling roots above the structural roots across the top of the structural roots.
- The root system shall be reasonably free of root defects including potentially stem-girdling roots above the root collar and main structural roots, vertical roots, and/or kninked roots from nursery production practices, including roots on the interior of the root ball.
- Container-grown plants, in addition to the above requirement, should comply with the following:
 - Container-grown plants may be permitted only when indicated on the drawing or specification.
 - Container-grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold its potting medium together but not so long as to have developed roots that are matted or circling around the edge or interior of the main root mass. Plants shall have been root pruned at each change in container size.
 - Plants that fail to meet any of the above requirements shall be modified to correct deficiencies if approved by the engineer. Modification shall include the following:
 - showing all circling on the exterior of the root mass deep enough so that all cut roots' ends are roughly radial to the trunk.
 - removal of all roots above the top of the main structural roots and trunk flare including any roots that are imprints from previous smaller containers.
 - the above modifications shall not be cause to alter the warranty provisions of this specification.
- The center of the trunk(s) or stem(s) of the plant shall be in the center of the root ball. A tolerance of 10% of the diameter of the root ball is the maximum deviation allowable (see figure 7). For example: For a plant with a 30" root ball, the center of the plant at ground level shall be within a three-inch circle 13 1/2 inches from the outer edge of the ball.
- Measurement:
 - Depth of the root ball is measured from the top of the ball, which in all cases shall begin at the root flare (see Figure 8). Soil above the root flare, from being deeply planted nursery as a young plant, as a result of maintenance practices in the nursery, or added during harvest, shall not be included in ball depth measurement, and should be removed.
 - Plants shall be true to species and variety specified and nursery grown in accordance with good horticultural practices under climatic conditions similar to those in the locality of the project for at least 2 years. They shall have been freshly dug (during the most recent favorable harvest season).
 - Plants shall be trained in development and appearance as to be unquestionably superior in form, compactness and symmetry. They shall be sound, healthy, vigorous, well branched and densely foliated when in leaf, and free of disease and insect adults, eggs, pupae or larvae. They shall have healthy, well-developed root systems and shall be free from physical damage or other conditions that would prevent thriving growth.
 - Trees with multiple leaders, unless specified, will be rejected. (See figure 6) Trees with a damaged, cut, or crooked leader, included bark, abrasion of bark, sunscald, disfiguring knots, insect damage, mold, prematurely opened buds, or cuts of limbs over 3/4" inch (2 cm) diameter that are not completely callused are cause for rejection.
 - Balled and burlapped plants shall be dug with solid balls of standard size, the ball securely wrapped with non-synthetic, untreated, biodegradable burlap, and tightly bound with non-synthetic, biodegradable rope or twine. Root collar shall be apparent at surface of ball. Bare root plants shall have a healthy, well branched root system characteristic of the species and with adequate spread.
 - Plants shall conform to the measurements specified, except that plants larger than those specified may be used if approved by the purchaser. Use of larger plants shall not increase the contract price nor allow the contractor to use smaller than specified material on other plants. If larger plants are approved, the root ball, root spread, or container shall be increased in proportion to the size of the plant.
 - Caliper measurements shall be taken on the trunk 6 inches (15 cm) above the root collar for trees up to 4 inches (10 cm) in caliper, and 12 inches (30 cm) above the root collar for trees over 4 inches (10 cm) in caliper. Height and spread dimensions specified refer to the main body of the plant and not from the branch tip to branch tip. Plants shall be measured when branches are in their normal position. If a range of size is given, no plant shall be less than the minimum size, and no less than 50 percent of the plants shall be as large as the maximum size specified. Plants that meet measurements but do not possess a normal balance between height and spread shall be rejected.

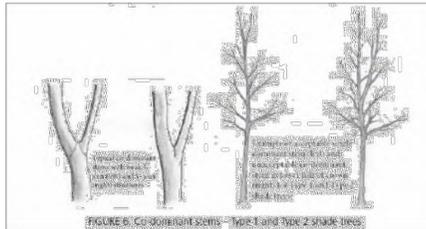


FIGURE 6 - CO-DOMINANT STEMS - TRUNK DIAMETER 2" STEM DIAMETER

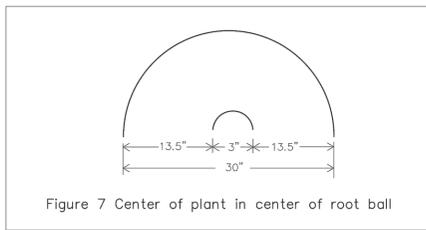


Figure 7 Center of plant in center of root ball

CENTER OF ROOT BALL

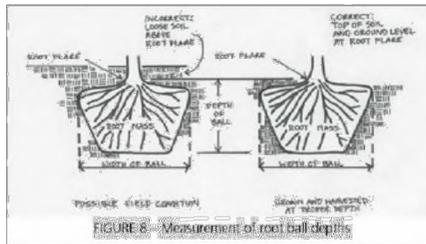
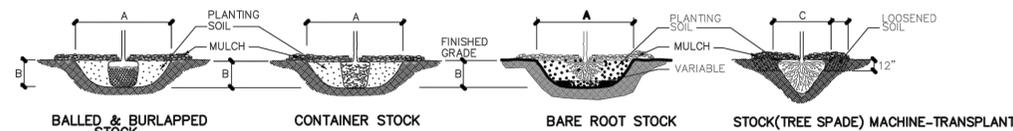


FIGURE 8 - Measurement of root ball depths

ROOT BALL DEPTHS

PLANTING HOLE DIMENSIONS (MINIMUM WIDTH DOES NOT APPLY IN MASS PLANTING BEDS) ALL VALUES ARE AS FOLLOWS:

PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH (1)
CONIFEROUS TREES	(1) SEEDLING	(15)	(14)
	(2) SEEDLING	(18)	(16)
	(3) SEEDLING	(24)	(18)
	(4) B.B.	(36)	(20)
	(5) B.B.	(42)	(21)
	(6) B.B.	(61)	(23)
	(7) B.B.	(72)	(24)
	(8) B.B.	(84)	(25)
	(9) B.B.	(96)	(26)
	(10) B.B.	(102)	(27)
DECIDUOUS & ORNAMENTAL TREES	(1) SEEDLING	(15)	(14)
	(2) SEEDLING	(18)	(16)
	(3) SEEDLING	(24)	(18)
	(4) B.B.	(36)	(20)
	(5) B.B.	(42)	(21)
	(6) B.B.	(61)	(23)
	(7) B.B.	(72)	(24)
	(8) B.B.	(84)	(25)
	(9) B.B.	(96)	(26)
	(10) B.B.	(102)	(27)
CONIFEROUS SHRUBS (UPRIGHT)	(1) B.B.	(36)	(18)
	(2) B.B.	(42)	(19)
	(3) B.B.	(48)	(20)
	(4) B.B.	(63)	(21)
	(5) B.B.	(72)	(22)
	(6) B.B.	(84)	(23)
	(7) B.B.	(96)	(24)
	(8) B.B.	(102)	(25)
	(9) B.B.	(114)	(26)
	(10) B.B.	(126)	(27)
CONIFEROUS SHRUBS (SPREADING)	(1) SPR. B.B.	(30)	(18)
	(2) SPR. B.B.	(36)	(19)
	(3) SPR. B.B.	(42)	(20)
	(4) SPR. B.B.	(48)	(21)
	(5) SPR. B.B.	(54)	(22)
	(6) SPR. B.B.	(60)	(23)
	(7) SPR. B.B.	(66)	(24)
	(8) SPR. B.B.	(72)	(25)
	(9) SPR. B.B.	(78)	(26)
	(10) SPR. B.B.	(84)	(27)
DECIDUOUS SHRUBS	(1) B.B.	(30)	(18)
	(2) B.B.	(36)	(19)
	(3) B.B.	(42)	(20)
	(4) B.B.	(48)	(21)
	(5) B.B.	(54)	(22)
	(6) B.B.	(60)	(23)
	(7) B.B.	(66)	(24)
	(8) B.B.	(72)	(25)
	(9) B.B.	(78)	(26)
	(10) B.B.	(84)	(27)
CONTAINER GROWN PLANTS	(1) CONT.	(15)	(15)
	(2) CONT.	(18)	(16)
	(3) CONT.	(24)	(18)
	(4) CONT.	(30)	(20)
	(5) CONT.	(36)	(21)
	(6) CONT.	(42)	(22)
	(7) CONT.	(48)	(23)
	(8) CONT.	(54)	(24)
	(9) CONT.	(60)	(25)
	(10) CONT.	(66)	(26)
VINES	1 YR. MED. B.B.	(18)	(11)
	2 YR. MED. B.B.	(24)	(14)
	3 YR. MED. B.B.	(30)	(17)
	4 YR. MED. B.B.	(36)	(20)



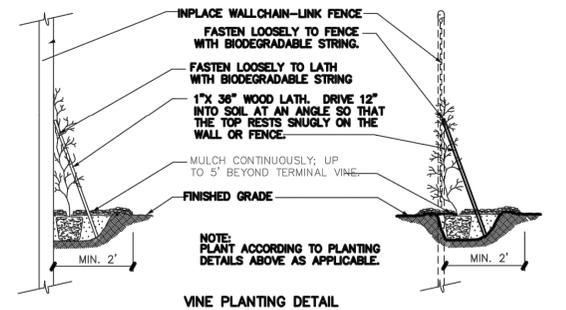
- BALLED & BURLAPPED STOCK**
 - 1.**SCARIFY SIDES AND BOTTOM OF HOLE.
 - 2.**PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.
 - 3.**REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS, AS NECESSARY.
 - 4.**SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE MESH (ROUND) UNDISTURBED APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL. THEN WATER PLANT.
 - 5.**REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STUBS AND BACKFILL WITH THE PLANTING SOIL.
 - 6.**WATER TO SETTLE PLANTS AND FILL VOIDS.
 - 7.**WATER THOROUGHLY WITHIN 2 HOURS.
 - 8.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
- CONTAINER STOCK**
 - 1.**SCARIFY SIDES AND BOTTOM OF HOLE.
 - 2.**PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.
 - 3.**REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS, AS NECESSARY.
 - 4.**SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE. REMOVE OR CORRECT STUBS AND BACKFILL WITH THE PLANTING SOIL.
 - 5.**PLUMB AND BACKFILL WITH THE PLANTING SOIL.
 - 6.**WATER TO SETTLE PLANTS AND FILL VOIDS.
 - 7.**WATER THOROUGHLY WITHIN 2 HOURS.
 - 8.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
- BARE ROOT STOCK**
 - 1.**SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
 - 2.**SCARIFY SIDES AND BOTTOM OF HOLE.
 - 3.**PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.
 - 4.**TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS APPROXIMATELY AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY.
 - 5.**PLUMB AND IMMEDIATELY BACKFILL WITH THE PLANTING SOIL.
 - 6.**WATER THOROUGHLY WITHIN 2 HOURS.
 - 7.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
- STOCK (TREE SPADE) MACHINE-TRANSPLANT**
 - 1.**SCARIFY SIDES AND BOTTOM OF HOLE.
 - 2.**ADD CORRECTIVE PRUNING.
 - 3.**SET PLANT ON NATIVE SOIL AT SAME DEPTH AS IT WAS PREVIOUSLY GROWN.
 - 4.**PLUMB AND BACKFILL WITH THE PLANTING SOIL TO SETTLE PLANTS AND FILL VOIDS.
 - 5.**AFTER PLANTING, LOOSEN THE SOIL IMMEDIATELY ADJACENT TO THE SPADE-MOVED SOIL TO A MINIMUM OF 12" DEPTH.
 - 6.**WATER THOROUGHLY WITHIN 2 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
 - 7.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
 - 8.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

MINIMUM TREE SPADE SIZE REQUIREMENTS

SPADE DIAMETER SIZE (C)	OAK TREES, CALIPER	DECIDUOUS/ ORNAMENTAL TREES, CALIPER	CONIFEROUS TREES, HEIGHT
42"	1' to 1.5'	2' to 3'	5' to 7'
60"	1.5' to 2.5'	3' to 4'	7' to 9'
78"	2.5' to 3.5'	4' to 6'	9' to 14'
85"	3.5' to 5'	6' to 8'	14' to 18'

PLANTING DETAILS FOR ISOLATED PLANTING LOCATIONS

GENERAL NOTE:
ALL PLANT STOCK MUST BE ACCEPTED IN ACCORDANCE WITH Mn/DOT 3861 PRIOR TO FOLLOWING THE STANDARD PLANTING DETAILS. PLANTING SOIL IS A COMBINATION OF THOROUGHLY MIXED EXISTING SOIL AND COMPOST MIX AND/OR ANY OTHER SPECIFIED AMENDMENTS.
NOTE:
1.**HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.



REVISED: 1-17 FILE NAME: G:\ENG\SPCS\5308 ENGINEERING DEPARTMENT PLATE: 5308

NURSERY STOCK SPECIFICATIONS

1 DETAIL: NURSERY STOCK SPECIFICATIONS



REVISED: 1-10 FILE NAME: G:\ENG\SPCS\5309 ENGINEERING DEPARTMENT PLATE: 5309

PLANTING DETAILS FOR TYPICAL INDIVIDUAL PLANTINGS

2 DETAIL: TYPICAL INDIVIDUAL PLANTINGS

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NO.	BY	CHK	APP	DATE	REVISION DESCRIPTION

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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT	03/25/21	04/23/21						
PRINTED NAME	BRENDAN H. DOUGHERTY	BID								
SIGNATURE	<i>Brendan Dougherty</i>	CONSTRUCTION								
DATE	06/03/2021	PERMIT								
LICENSE #	54710	RELEASED TO/FOR	A	B	C	0	1	2	3	
		DATE RELEASED								

BARR
Project Office:
BARR ENGINEERING CO.
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Corporate Headquarters:
Minneapolis, Minnesota
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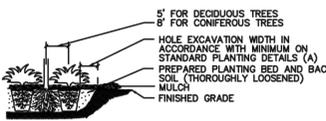
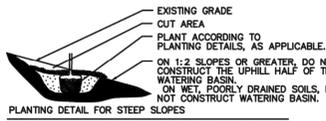
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Date	06/03/2021
Drawn	CWF
Checked	SAS
Designed	BHD
Approved	BHD

PIONEER TRAIL WETLAND RESTORATION PROJECT
RILEY PURGATORY BLUFF CREEK WD
CHANHASSEN, MN

RETORATION DETAILS

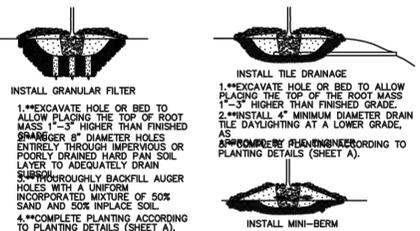
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CLIENT PROJECT No. DWG. No. R-02 REV. No. C

100% ISSUED FOR BID

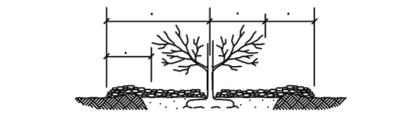


OPTIMUM PLANTING DATE ZONES IN MINNESOTA

KEY	SPRING		FALL	
	PERENNIALS	CONIFER/DECIDUOUS	SEEDLINGS	DECIDUOUS/CONIFER/SHRUBS
1	MAY 1 TO JUNE 15	APRIL 21 TO JUNE 1	APRIL 21 TO JUNE 1	OCT. 1 TO NOV. 15
2	MAY 1 TO JUNE 15	APRIL 7 TO MAY 17	APRIL 7 TO JUNE 1	OCT. 10 TO NOV. 15



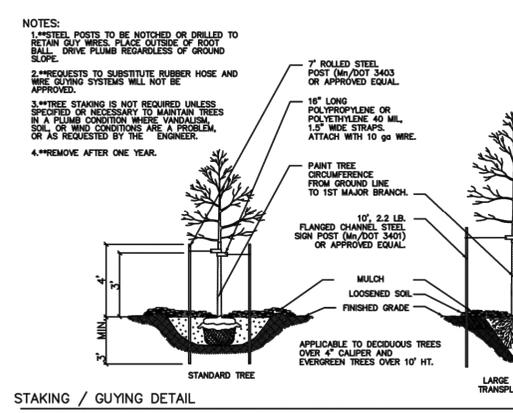
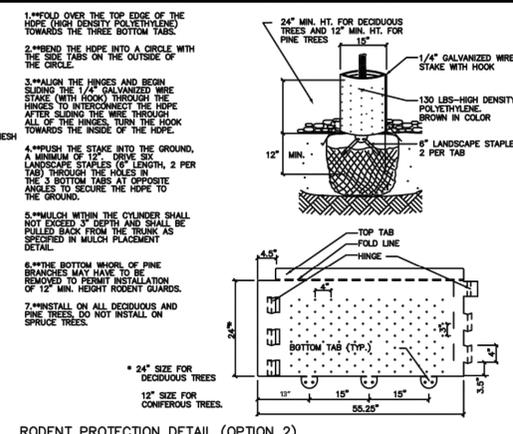
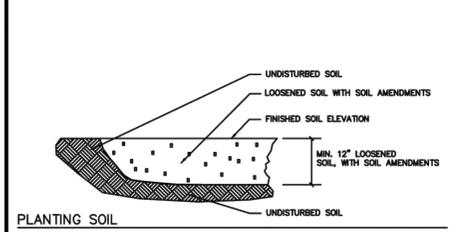
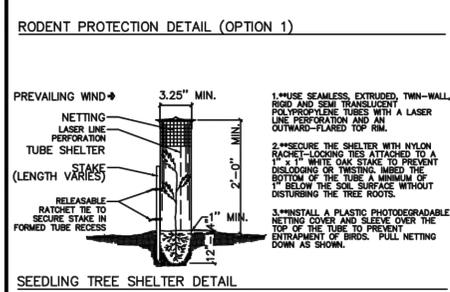
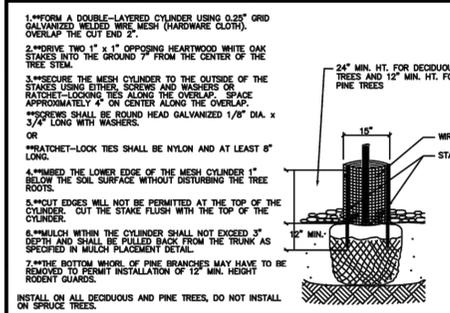
INSTALL GRANULAR FILTER
 1.**EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF THE ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
 2.**INSTALL 4" MINIMUM DIAMETER DRAIN TILE DAYLIGHTING AT A LOWER GRADE.
 3.**CONSTRUCT BERM WITH SANDY LOAM TOPSOIL, EXTENDING THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.
 4.**COMPLETE PLANTING ACCORDING TO PLANTING DETAILS (SHEET A).



RODENT PROTECTION DETAIL (OPTION 1)
 1.**USE SEAMLESS, EXTRUDED, TWIN-WALL, RIGID AND SEMI-TRANSPARENT POLYPROPYLENE TUBES WITH A LASER LINE PERFORATION AND AN OUTWARD-FLARED TOP RIM.
 2.**SECURE THE SHELTER WITH NYLON RATCHET-LOCKING TIES ATTACHED TO A 1" x 1" WHITE OAK STAKE TO PREVENT DISLOCATING OR TWISTING. MOUNT THE BOTTOM OF THE TUBE A MINIMUM OF 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
 3.**INSTALL A PLASTIC PHOTODEGRADABLE NETTING COVER AND SLEEVE OVER THE TOP OF THE TUBE TO PREVENT ENTRAPMENT OF BIRDS. PULL NETTING DOWN AS SHOWN.

MULCH PLACEMENT DETAIL

TYPE OF PLANT	CENTER OF PLANT TO MULCH LINE	EDGE OF BRANCHING TO MULCH LINE	DEPTH OF MULCH	DEPTH OF MULCH
CONIFERUS TREES	VARIABLE	3" MIN.	4"-6"	4"-6"
DECIDUOUS TREES	3" MIN.	N/A	4"-6"	4"-6"
CONIFERUS SHRUBS	VARIABLE	3" MIN.	3"-4"	4"-6"
DECIDUOUS SHRUBS	3" MIN.	N/A	4"-6"	4"-6"
VINES	2" MIN.	N/A	4"-6"	4"-6"
PERENNIALS	VARIABLE	2" MIN.	2"-4"	2"-4"
MACHINE-TRANSPLANTED TREES	12" BEYOND EDGE OF HOLE	4"-6"	4"-6"	4"-6"



GENERAL NOTES

SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS.

THE PLANTING DETAILS REPRESENT ASSUMED SOIL CONDITIONS. THE CONTRACTOR SHOULD EXERCISE DISCRETION IN ALTERNATIVE PLANTING DETAILS ON SHEET B.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE IN HEAVY POORLY DRAINED OR IMPERVIOUS SOILS.

LOOSEN ALL ISOLATED TREE PLANTING LOCATIONS AND PLANTING BEDS TO A MINIMUM DEPTH OF 12". SOIL AMENDMENTS SHALL BE APPLIED DURING CULTIVATION.

USE CULTIVATED AND AMENDED SOIL EXCAVATED FROM PLANTING HOLES. REMOVE ALL DEBRIS INCLUDING ROCKS LARGER THAN 3" DIAMETER.

MN/DOT 3881

Mn/DOT 3890

Mn/DOT 3882 TYPE 6 UNLESS OTHERWISE SPECIFIED.

MASS PREPARE PLANT SPACING OF 4' OR LESS. PLANT IN STAGGERED ROWS ON THE PERIMETER FIRST, THEN UNIFORMLY FILL IN WITH REMAINING QUANTITY. USE TRIANGULAR SPACING UNLESS SPECIFIED OTHERWISE. PROVIDE 5' RADIUS CLEAR OF SHRUBS AROUND EACH DECIDUOUS TREE AND 8' RADIUS AROUND EACH EVERGREEN TREE. THIS RADIUS (CLEARANCE) SHALL BE MEASURED FROM THE CENTER OF THE TREE TO THE CENTER OF THE SHRUB. NOTIFY ENGINEER OF GROSS PLANT QUANTITY SURPLUS OR DEFICIENCY IMMEDIATELY. MASS MULCH PLANT SPACINGS OF 4' OR LESS.

PAINT TREES: LINDENS, LOCUSTS, MAPLES, CRABAPPLES AND MOUNTAIN ASH. ONLY UNGLAZED EXTERIOR WHITE LATEX PAINT IS ACCEPTABLE. PAINT TREE CIRCUMFERENCE FROM GROUND LINE TO FIRST MAJOR BRANCH.

RESPECT STATED DIMENSIONS BEFORE SCALING FROM PLAN.

PLANT TYPE	AVERAGE AMOUNT OF WATER PER APPLICATION IN GALLONS
MACHINE TRANSPLANTED TREES 42" AND UP	50 - 100
BARE ROOT TREES	15
BALLED & BURLAPPED SHRUBS	10
BARE ROOT OR CONTAINER SHRUBS	7
WOODY SEEDLINGS	4
PERENNIALS AND VINES	3

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR AND MAINTAIN SOIL MOISTURE AT ADEQUATE BUT NOT EXCESSIVE LEVELS. THE ABOVE LISTED APPLICATION AMOUNTS ARE GUIDELINES, NOT REQUIREMENTS.

CITY OF CHANHASSEN
 REVISED: 3-14
 FILE NAME: G:\ENG\SPCS\5310
 ENGINEERING DEPARTMENT
 PLATE: 5310
 PLANTING DETAILS FOR STEEP SLOPES/MASS BED PLANTINGS

CITY OF CHANHASSEN
 REVISED: 1-10
 FILE NAME: G:\ENG\SPCS\5311
 ENGINEERING DEPARTMENT
 PLATE: 5311
 PLANTING DETAIL

1 DETAIL: STEEP SLOPES/MASS BED PLANTINGS

2 DETAIL: PLANTING

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PRINTED NAME: BRENDAN H. DOUGHERTY
 SIGNATURE: *Brendan Dougherty*
 DATE: 06/03/2021 LICENSE # 54710

CLIENT	03/25/21	04/23/21							
BID									
CONSTRUCTION									
PERMIT									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

Project Office:
 BARR ENGINEERING CO.
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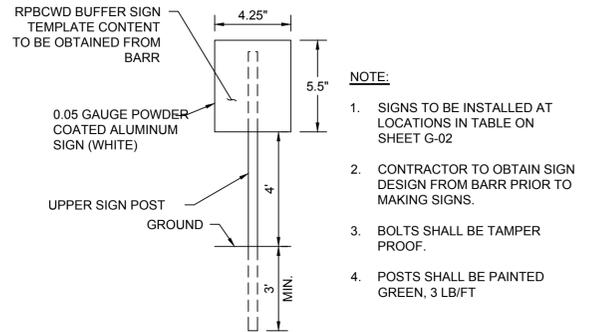
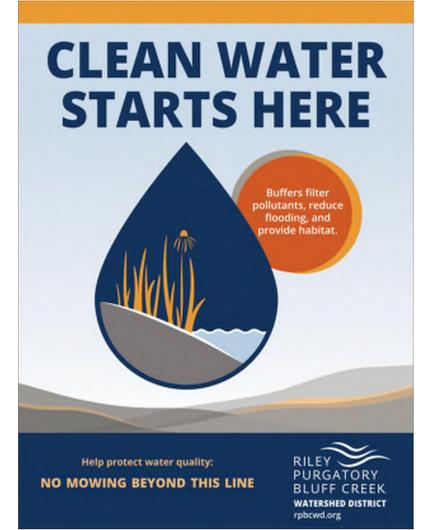
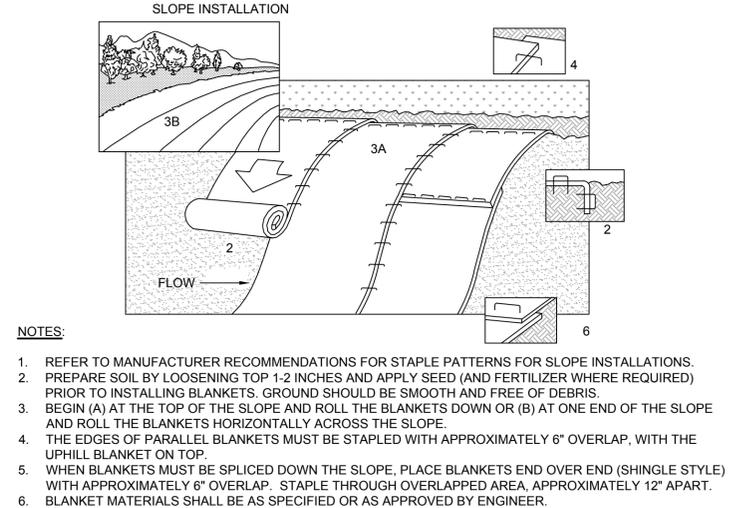
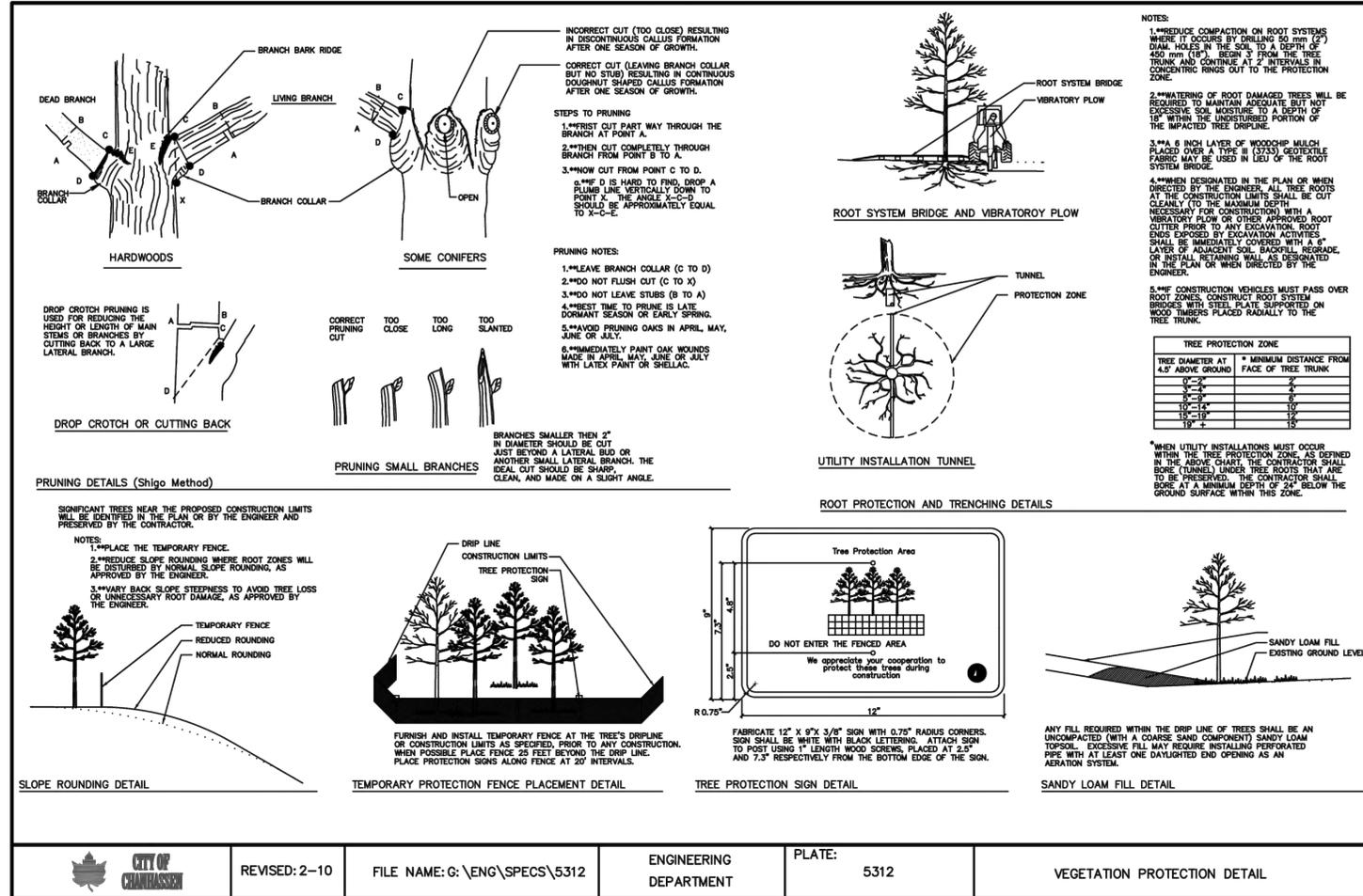
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 Drawn: CWF
 Checked: SAS
 Designed: BHD
 Approved: BHD

RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MN

PIONEER TRAIL WETLAND RESTORATION PROJECT
 RETORATION DETAILS

BARR PROJECT No. 23/27-0053.30B
 CLIENT PROJECT No.
 DWG. No. R-03
 REV. No. C

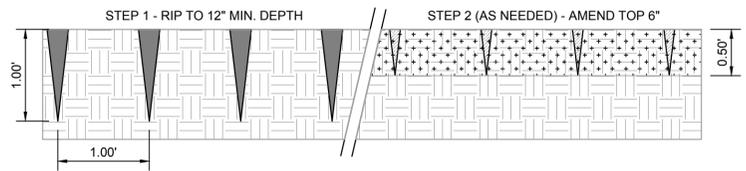
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1 DETAIL: VEGETATION PROTECTION

2 DETAIL: EROSION CONTROL BLANKET - INSTALLATION
NOT TO SCALE

3 DETAIL: BUFFER SIGN INSTALLATION
NOT TO SCALE



SOIL LOOSENING REQUIREMENTS:

- SOIL LOOSENING APPLIES TO UPLAND AREAS RECEIVING MESIC SEED, NOT INCLUDING AREAS UNDER EXISTING TREE DRIP-LINES OR WITHIN 5- FEET OF BUILDING/PAVEMENT FOUNDATIONS, TO RESTORE SOIL PERMEABILITY.
- SOIL REMEDIATION MUST BE IMPLEMENTED PRIOR TO ANY INSTALLATION OF TREES, SHRUBS, SOD AND/OR SEED. NO WHEELED EQUIPMENT SHALL BE USED ON LOOSENED SOIL - WIDE TRACK EQUIPMENT ONLY.
- SOIL LOOSENING MUST PRESERVE EXISTING TREES. NO LOOSENING SHALL OCCUR WITHIN DRIP LINE OF ANY EXISTING TREE.
- ALL DISTURBED AREAS TO BE RE-VEGETATED SHALL HAVE 12-INCH MINIMUM DEPTH OF SOIL LOOSENING (E.G. SOIL RIPPING, 12-INCH MAX. TOOTH SPACING).
- LOOSENED SOILS SHALL HAVE A MAXIMUM OF 200 PSI IN TOP 12 INCHES.
- CONTRACTOR TO TEST EXISTING TOPSOIL PRIOR TO PLANTING (MINIMUM 3 TESTS AT LEAST 500 FEET APART). IF EXISTING TOP 6" OF SOIL DOES NOT HAVE AT LEAST 5% SOIL ORGANIC CONTENT CONTRACTOR IS TO AMEND WITH MNDOT 3890 GRADE 2 COMPOST TO MEET REQUIREMENT. IMPLEMENTATION DOCUMENTATION SHALL BE PROVIDED TO ENGINEER TO VERIFY EXISTING ORGANIC CONTENT IN SOIL AND PROPOSED AMENDMENTS.

4 DETAIL: SOIL LOOSENING REQUIREMENTS

CADD USER: Brendan H. Dougherty FILE: M:\DESIGN\23270053_14\TO30_PIONEER_WETLAND\23270053_30B_R-02_RESTORATION DETAILS.DWG PLOT SCALE: 1:1 PLOT DATE: 5/27/2021 10:57 AM
BARR:\AutoCAD 2011\AutoCAD 2011\Support\encl\template\Bar_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

		REVISED: 2-10	FILE NAME: G:\ENG\SPCS\5312	ENGINEERING DEPARTMENT	PLATE: 5312	VEGETATION PROTECTION DETAIL
		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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT: 03/25/21 BID: 04/23/21 CONSTRUCTION: 04/23/21	PROJECT OFFICE: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435	Scale: AS SHOWN Date: 06/03/2021 Drawn: CWF Checked: SAS Designed: BHD Approved: BHD
PRINTED NAME: BRENDAN H. DOUGHERTY SIGNATURE: <i>Brendan Dougherty</i> DATE: 06/03/2021 LICENSE #: 54710		RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:		PROJECT: RILEY PURGATORY BLUFF CREEK WD LOCATION: CHANHASSEN, MN		PIONEER TRAIL WETLAND RESTORATION PROJECT RETORATION DETAILS
NO. BY CHK APP DATE REVISION DESCRIPTION		BARR PROJECT No. 23/27-0053.30B CLIENT PROJECT No.		DWG. No. R-04 REV. No. C		100% ISSUED FOR BID

SEED SCHEDULE:

Wet Prairie - Partial Shade

Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
Big Bluestem	<i>Andropogon gerardii</i>	0.75	2.1%
Canada Blue Joint Grass	<i>Calamagrostis canadensis</i>	0.12	0.3%
Riverbank Wild Rye	<i>Elymus riparius</i>	1.25	3.6%
Virginia wild rye	<i>Elymus virginicus</i>	1.25	3.6%
American Manna Grass	<i>Glyceria grandis</i>	0.15	0.4%
Fowl Manna Grass	<i>Glyceria striata</i>	0.25	0.7%
Rice Cut Grass	<i>Leersia oryzoides</i>	0.25	0.7%
Switchgrass	<i>Panicum virgatum</i>	0.50	1.4%
Fowl Bluegrass	<i>Poa palustris</i>	0.50	1.4%
Indian Grass	<i>Sorghastrum nutans</i>	0.40	1.1%
Prairie Cordgrass	<i>Spartina pectinata</i>	1.00	2.9%
Grasses Subtotal		6.42	18%
Porcupine Sedge	<i>Carex hystericina</i>	0.02	0.1%
Lake Sedge	<i>Carex lacustris</i>	0.06	0.2%
Field Oval Sedge	<i>Carex molesta</i>	0.06	0.2%
Pointed broom sedge	<i>Carex scoparia</i>	0.08	0.2%
Long-beaked Sedge	<i>Carex sprengei</i>	0.03	0.1%
Awl-fruited Sedge	<i>Carex stipata</i>	0.06	0.2%
Tussock Sedge	<i>Carex stricta</i>	0.06	0.2%
Fox Sedge	<i>Carex vulpinoidea</i>	0.10	0.3%
Green Bulrush	<i>Scirpus atrovirens</i>	0.19	0.5%
Wool Grass	<i>Scirpus cyperinus</i>	0.06	0.2%
Sedges & Rushes Subtotal		0.73	2%
Swamp Milkweed	<i>Asclepias incarnata</i>	0.12	0.3%
Sweet Flag	<i>Acoris americanus</i>	0.30	0.9%
False Aster	<i>Boltonia asteroides</i>	0.03	0.1%
Marsh marigold	<i>Caltha palustris</i>	0.08	0.2%
Showy Tick Trefoil	<i>Desmodium canadense</i>	0.25	0.7%
Flat-Topped Aster	<i>Doellingeria umbellata</i>	0.04	0.1%
Narrow-Leaved Coneflower	<i>Echinacea angustifolia</i>	0.08	0.2%
Rattlesnake Master	<i>Eryngium yuccifolium</i>	0.05	0.1%
Boneset	<i>Eupatorium perfoliatum</i>	0.05	0.1%
Grass-Leaved Goldenrod	<i>Euthamia graminifolia</i>	0.04	0.1%
Joe-Pye Weed	<i>Eutrochium maculatum</i>	0.06	0.2%
Cream Gentian	<i>Gentiana alba</i>	0.15	0.4%
Sneezeweed	<i>Helenium autumnale</i>	0.05	0.1%
Spotted Touch Me Not	<i>Impatiens capensis</i>	0.03	0.1%
Meadow Blazing Star	<i>Liatis ligulistylis</i>	0.08	0.2%
Fringed Loosestrife	<i>Lysimachia ciliata</i>	0.02	0.1%
Swamp Candles	<i>Lysimachia terrestris</i>	0.01	0.0%
Virginia Mountain Mint	<i>Pycnanthemum virginianum</i>	0.05	0.1%
Cup Plant	<i>Silphium perfoliatum</i>	1.00	2.9%
Smooth Aster	<i>Symphoricarum laeve</i>	0.06	0.2%
Panicled aster	<i>Symphoricarum lanceolatum</i>	0.01	0.0%
New England Aster	<i>Symphoricarum novae-angliae</i>	0.07	0.2%
Red-stemmed aster	<i>Symphoricarum panicum</i>	0.02	0.1%
Ohio Spiderwort	<i>Tradescantia ohioensis</i>	0.02	0.1%
Blue Vervain	<i>Verbena hastata</i>	0.04	0.1%
White Vervain	<i>Verbena urticifolia</i>	0.02	0.0%
Ironweed	<i>Vernonia fasciculata</i>	0.08	0.2%
Golden Alexanders	<i>Zizia aurea</i>	0.06	0.2%
Forbs Subtotal		2.87	8%
Oats	<i>Avena sativa</i>	25.00	71.4%
Total Cover Crop		25.00	71%
Total		35.01	100%

Mesic Prairie (upland)

Common Name	Scientific Name	Rate (lb/ac)	% of Mix (by weight)
Big Bluestem	<i>Andropogon gerardii</i>	0.50	1.4%
Sideoats Grama	<i>Bouteloua curtipendula</i>	1.00	2.7%
Blue Grama	<i>Bouteloua gracilis</i>	0.75	2.1%
Kalm's Brome	<i>Bromus kalmii</i>	0.50	1.4%
Canada Wild Rye	<i>Elymus canadensis</i>	0.75	2.1%
Botlebrush Grass	<i>Elymus hystrix</i>	0.30	0.8%
Switchgrass	<i>Panicum virgatum</i>	0.84	2.3%
Little Bluestem	<i>Schizachyrium scoparium</i>	1.25	3.4%
Indian Grass	<i>Sorghastrum nutans</i>	0.75	2.1%
Prairie Cord Grass	<i>Spartina pectinata</i>	0.30	0.8%
Prairie Dropseed	<i>Sporobolus heterolepis</i>	0.84	2.3%
Grasses Subtotal		7.78	21%
Fox Sedge	<i>Carex vulpinoidea</i>	0.13	0.3%
Plains Oval Sedge	<i>Carex brevior</i>	0.30	0.8%
Porcupine Sedge	<i>Carex hystericina</i>	0.06	0.2%
Long-beaked Sedge	<i>Carex sprengei</i>	0.13	0.3%
Path Rush	<i>Juncus tenuis</i>	0.06	0.2%
Sedges & Rushes Subtotal		0.67	2%
Prairie Onion	<i>Allium stellatum</i>	0.03	0.1%
Pearly Everlasting	<i>Anaphalis margaritacea</i>	0.02	0.0%
Tall Thimbleweed	<i>Anemone virginiana</i>	0.03	0.1%
Columbine	<i>Aquilegia canadensis</i>	0.04	0.1%
Common milkweed	<i>Asclepias syriaca</i>	0.30	0.8%
Butterfly weed	<i>Asclepias tuberosa</i>	0.06	0.2%
Whorled Milkweed	<i>Asclepias verticillata</i>	0.02	0.1%
Aromatic Aster	<i>Aster oblongifolius</i>	0.08	0.2%
Canada Milk Vetch	<i>Astragalus canadensis</i>	0.06	0.2%
White Wild Indigo	<i>Baptisia alba</i>	0.08	0.2%
Downy Wood Mint	<i>Doellingeria ciliata</i>	0.02	0.0%
Partridge Pea	<i>Chamaecrista fasciculata</i>	0.60	1.6%
Prairie Coreopsis	<i>Coreopsis palmata</i>	0.05	0.1%
White Prairie Clover	<i>Dalea candida</i>	0.05	0.1%
Purple prairie clover	<i>Dalea purpureum</i>	0.04	0.1%
Flowering Spurge	<i>Euphorbia corollata</i>	0.02	0.0%
Western Sunflower	<i>Helianthus occidentalis</i>	0.04	0.1%
Showy Sunflower	<i>Helianthus pauciflorus</i>	0.12	0.3%
Round-headed Bush Clover	<i>Lespedeza capitata</i>	0.07	0.2%
Rough blazingstar	<i>Liatis aspera</i>	0.13	0.3%
Button Blazing Star	<i>Liatis aspera</i>	0.06	0.2%
Wild Lupine	<i>Lupinus perennis</i>	0.30	0.9%
Bergamot	<i>Monarda fistulosa</i>	0.02	0.1%
Spotted Bee Balm	<i>Monarda punctata</i>	0.06	0.2%
Stiff Goldenrod	<i>Oligoneuron rigidum</i>	0.13	0.3%
Large-flowered Beardtongue	<i>Pentstemon grandiflorus</i>	0.04	0.1%
Prairie Phlox	<i>Phlox pilosa</i>	0.02	0.0%
Virginia mountain mint	<i>Pycnanthemum virginianum</i>	0.06	0.2%
Long-headed Coneflower	<i>Ratibida columnifera</i>	0.06	0.2%
Black-eyed Susan	<i>Rudbeckia hirta</i>	0.04	0.1%
Sweet Black-Eyed Susan	<i>Rudbeckia subtomentosa</i>	0.06	0.2%
Old Field Goldenrod	<i>Solidago nemoralis</i>	0.06	0.2%
Smooth aster	<i>Symphoricarum laeve</i>	0.04	0.1%
Ohio Spiderwort	<i>Tradescantia ohioensis</i>	0.04	0.1%
Hoary Vervain	<i>Verbena stricta</i>	0.06	0.2%
Heart-leaf Golden Alexanders	<i>Zizia aptera</i>	0.06	0.2%
Golden Alexanders	<i>Zizia aurea</i>	0.19	0.5%
Forbs Subtotal		3.13	9%
Oats	<i>Avena sativa</i>	25	68.3%
Total Cover Crop		25.00	68%
Total		36.58	100%

Wet Prairie (wetland)

Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
Kalm's Brome	<i>Bromus kalmii</i>	0.30	4.6%
Canada Blue Joint Grass	<i>Calamagrostis canadensis</i>	0.06	0.9%
Riverbank Wild Rye	<i>Elymus riparius</i>	0.50	7.6%
Rattlesnake Grass	<i>Glyceria canadensis</i>	0.06	0.9%
American Manna Grass	<i>Glyceria grandis</i>	0.06	0.9%
Fowl Manna Grass	<i>Glyceria striata</i>	0.12	1.8%
Big Bluestem	<i>Andropogon gerardii</i>	1.50	22.9%
Indian Grass	<i>Sorghastrum nutans</i>	0.75	11.4%
Rice Cut Grass	<i>Leersia oryzoides</i>	0.25	3.8%
Fowl Bluegrass	<i>Poa palustris</i>	0.03	0.5%
Prairie Cord Grass	<i>Spartina pectinata</i>	0.30	4.6%
Grasses Subtotal		3.93	60%
Lake Sedge	<i>Carex lacustris</i>	0.12	1.8%
Pointed broom sedge	<i>Carex scoparia</i>	0.06	0.8%
Tussock Sedge	<i>Carex stricta</i>	0.06	1.0%
Fox Sedge	<i>Carex vulpinoidea</i>	0.03	0.5%
Green Bulrush	<i>Scirpus atrovirens</i>	0.16	2.4%
Wool Grass	<i>Scirpus cyperinus</i>	0.06	0.9%
Sedges & Rushes Subtotal		0.49	8%
Red Baneberry	<i>Actaea rubra</i>	0.20	3.1%
Water Plantain	<i>Alisma triviale</i>	0.03	0.5%
Canada Anemone	<i>Anemone canadensis</i>	0.10	1.5%
Angelica	<i>Angelica atropurpurea</i>	0.20	3.1%
Jack-In-The-Pulpit	<i>Arisaema triphyllum</i>	0.80	12.2%
Swamp Milkweed	<i>Asclepias incarnata</i>	0.12	1.8%
Beggarticks	<i>Bidens frondosa</i>	0.30	4.6%
False Aster	<i>Boltonia asteroides</i>	0.03	0.5%
Boneset	<i>Eupatorium perfoliatum</i>	0.05	0.8%
Spotted Touch Me Not	<i>Impatiens capensis</i>	0.03	0.5%
Cardinal Flower	<i>Lobelia cardinalis</i>	0.02	0.3%
Great Blue Lobelia	<i>Lobelia siphilitica</i>	0.03	0.5%
Monkey Flower	<i>Mimulus ringens</i>	0.01	0.2%
Brown-Eyed Susan	<i>Rudbeckia triloba</i>	0.06	0.9%
New England Aster	<i>Symphoricarum novae-angliae</i>	0.03	0.5%
Purple Meadow Rue	<i>Thalictrum dasycarpum</i>	0.02	0.3%
Blue Vervain	<i>Verbena hastata</i>	0.04	0.6%
Golden Alexanders	<i>Zizia aurea</i>	0.06	0.9%
Forbs Subtotal		2.13	33%
Total		6.55	100%

Emergent (wetland)

Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
American Slough Grass	<i>Beckmannia syzigachne</i>	0.70	13.6%
River Bulrush	<i>Bolboschoenus fluvialis</i>	0.25	4.9%
Canada Blue Joint Grass	<i>Calamagrostis canadensis</i>	0.12	2.3%
Rattlesnake Grass	<i>Glyceria canadensis</i>	0.06	1.2%
American Manna Grass	<i>Glyceria grandis</i>	0.25	4.9%
Fowl Manna Grass	<i>Glyceria striata</i>	0.12	2.3%
Rice Cut Grass	<i>Leersia oryzoides</i>	0.25	4.9%
Grasses Subtotal		1.75	34%
Lake Sedge	<i>Carex lacustris</i>	0.12	2.3%
Tussock Sedge	<i>Carex stricta</i>	0.06	1.2%
Hardstem Bulrush	<i>Schoenoplectus acutus</i>	0.10	1.9%
Softstem Bulrush	<i>Schoenoplectus tabernaemontani</i>	0.50	9.7%
Green Bulrush	<i>Scirpus atrovirens</i>	0.40	7.8%
Wool Grass	<i>Scirpus cyperinus</i>	0.06	1.2%
Great Spike Rush	<i>Eleocharis palustris</i>	0.10	1.9%
Common Rush	<i>Juncus effusus</i>	0.10	1.9%
Three-Square Bulrush	<i>Schoenoplectus pungens</i>	0.25	4.9%
Sedges & Rushes Subtotal		1.69	33%
Water Plantain	<i>Alisma triviale</i>	0.40	7.8%
Sweet Flag	<i>Acoris americanus</i>	0.40	7.8%
Bur Marigold	<i>Bidens cernua</i>	0.12	2.3%
Swamp Candles	<i>Lysimachia terrestris</i>	0.03	0.6%
Common Arrowhead	<i>Sagittaria latifolia</i>	0.35	6.8%
Bur Reed	<i>Sparganium americanum</i>	0.40	7.8%
Forbs Subtotal		1.70	33%
Total		5.14	100%

Shrub Carr (wetland)

Common Name	Scientific Name	PLS Rate (lb/ac)	% of Mix (by weight)
American Slough Grass	<i>Beckmannia syzigachne</i>	0.25	3.5%
Canada Blue Joint Grass	<i>Calamagrostis canadensis</i>	0.06	0.8%
Riverbank Wild Rye	<i>Elymus riparius</i>	0.50	7.0%
Rattlesnake Grass	<i>Glyceria canadensis</i>	0.06	0.8%
American Manna Grass	<i>Glyceria grandis</i>	0.25	3.5%
Fowl Manna Grass	<i>Glyceria striata</i>	0.12	1.7%
Rice Cut Grass	<i>Leersia oryzoides</i>	0.25	3.5%
Marsh Muhly	<i>Muhlenbergia glomerata</i>	0.12	1.7%
Fowl Bluegrass	<i>Poa palustris</i>	0.50	7.0%
Prairie Cord Grass	<i>Spartina pectinata</i>	0.70	9.8%
Grasses Subtotal		2.81	39%
River Bulrush	<i>Bolboschoenus fluvialis</i>	0.25	3.5%
Porcupine Sedge	<i>Carex hystericina</i>	0.02	0.3%
Lake Sedge	<i>Carex lacustris</i>	0.06	0.9%
Pointed broom sedge	<i>Carex scoparia</i>	0.06	0.8%
Long-beaked Sedge	<i>Carex sprengei</i>	0.03	0.4%
Tussock Sedge	<i>Carex stricta</i>	0.06	0.9%
Fox Sedge	<i>Carex vulpinoidea</i>	0.10	1.4%
Dudley's rush	<i>Juncus dudleyi</i>	0.01	0.1%
Hardstem Bulrush	<i>Schoenoplectus acutus</i>	0.10	1.4%
Softstem Bulrush	<i>Schoenoplectus tabernaemontani</i>	0.14	2.0%
Green Bulrush	<i>Scirpus atrovirens</i>	0.40	5.6%
Wool Grass	<i>Scirpus cyperinus</i>	0.06	0.8%
Sedges & Rushes Subtotal		1.05	15%
Water Plantain	<i>Alisma triviale</i>	0.16	2.2%
Sweet Flag	<i>Acoris americanus</i>	0.20	2.8%
Angelica	<i>Angelica atropurpurea</i>	0.20	2.8%
Swamp Milkweed	<i>Asclepias incarnata</i>	0.12	1.7%
Bur Marigold	<i>Bidens cernua</i>	0.12	1.7%
Beggarticks	<i>Bidens frondosa</i>	0.30	4.2%
False Aster	<i>Boltonia asteroides</i>	0.03	0.4%
Flat-Topped Aster	<i>Doellingeria umbellata</i>	0.04	0.6%
Boneset	<i>Eupatorium perfoliatum</i>	0.05	0.7%
Grass-Leaved Goldenrod	<i>Euthamia graminifolia</i>	0.04	0.6%
Joe-Pye Weed	<i>Eutrochium maculatum</i>	0.06	0.8%
Yellow Avens	<i>Geum aleppicum</i>	0.08	1.1%
Sneezeweed	<i>Helenium autumnale</i>	0.05	0.7%
Spotted Touch Me Not	<i>Impatiens capensis</i>	0.03	0.4%
Prairie Blazing Star	<i>Liatis pycnostachya</i>	0.04	0.6%
Cardinal Flower	<i>Lobelia cardinalis</i>	0.02	0.3%
Great Blue Lobelia	<i>Lobelia siphilitica</i>	0.03	0.4%
Fringed Loosestrife	<i>Lysimachia ciliata</i>	0.02	0.3%
Swamp Candles	<i>Lysimachia terrestris</i>	0.01	0.1%
Monkey Flower	<i>Mimulus ringens</i>	0.01	0.1%
Virginia Mountain Mint	<i>Pycnanthemum virginianum</i>	0.02	0.3%
Common Arrowhead	<i>Sagittaria latifolia</i>	0.30	4.2%
Cup Plant	<i>Silphium perfoliatum</i>	0.80	11.2%
Prairie Dock	<i>Silphium laciniatum</i>	0.15	2.1%
Bur Reed	<i>Sparganium americanum</i>	0.20	2.8%
Smooth Aster	<i>Symphoricarum laeve</i>	0.06	0.8%
New England Aster	<i>Symphoricarum novae-angliae</i>	0.07	1.0%
Blue Vervain	<i>Verbena hastata</i>	0.04	0.6%
Golden Alexanders	<i>Zizia aurea</i>	0.06	0.8%
Forbs Subtotal		3.31	46%
Total		7.17	100%

CADD USER: Brendan H. Dougherty FILE: M:\DESIGN\23270053_14\TO\30_PIONEER_WETLAND\23270053_30B_R-02_RESTORATION_DETAILS.DWG PLOT SCALE: 1:1 PLOT DATE: 5/27/2021 4:13 PM
 BAR: M:\AUCAD\2011\AUCAD\2011\AUCAD\2011\AUCAD\2011_Template.dwt Plot at 1 10/05/2010 14:09:50

100% ISSUED FOR BID

NO.	BY	CHK	APP	DATE	REVISION DESCRIPTION

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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: BRENDAN H. DOUGHERTY
 SIGNATURE: *Brendan Dougherty*
 DATE: 06/03/2021 LICENSE #: 54710

CLIENT	BID	CONSTRUCTION PERMIT	RELEASED TO/FOR	DATE RELEASED
03/25/21	04/23/21	06/03/21	A B C 0 1 2 3	

Project Office:
BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Scale	AS SHOWN</
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18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2021-012

Considered at Board of Managers Meeting: June 2, 2021

Received complete: April 13, 2021

Applicant: Dean Lotter, Pulte Homes

Consultant: Mark Rausch, Alliant Engineering

Project: Noble Hills: proposed redevelopment of an existing single-family home site for 50 single-family residential lots. The construction will also disturb the turn lanes and the city trail along Spring Road. Proposed stormwater features include three infiltration basins and one sediment basin.

Location: 9955 Spring Road, Eden Prairie, MN 55347

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 June 2, 2021 meeting of the managers:

Resolved that the application for Permit 2021-012 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 2021-012 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	
C	Erosion Control Plan	See comment.	See rule-specific permit condition C1.	
D	Wetland and Creek Buffers	See comment.	See rule-specific permit condition D1-D2.	
J	Stormwater Management	Rate	Yes.	
		Volume	See comment.	See rule-specific permit condition J1 and stipulations 1.
		Water Quality	Yes.	
		Low Floor Elev.	Yes.	
		Maintenance	See comment.	See rule-specific permit condition J2.
		Chloride Management	Yes	
		Wetland Protection	Yes.	
L	Permit Fee	Yes.	\$3,000 received March 22, 2021	
M	Financial Assurance	See comment.	The financial assurance is calculated at \$150,030	

Background

The applicant is planning a low-density residential redevelopment consisting of 50 single-family homes on a 32-acre site in Eden Prairie, Minnesota. The existing site is used as a single-family residence and tree farm. The existing imperviousness on the site is comprised of a residential structure, driveway and outbuildings. The site features significant varying slopes, and steep slopes constituting a high-risk erosion area as delineated by the District, and most of the site discharges to a wetland which abuts Riley Creek on the western border of the site. The proposed redevelopment into 50 single-family homes will include construction of associated streets, underground utilities, and stormwater features. Three infiltration basins and one sediment basin 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 abuts Riley Creek, is downgradient from proposed land-disturbing activities.
Riley Creek	Creek is downgradient from land-disturbing activities. I
High Risk Erosion Area Watercourses	One watercourse on the property within a high risk erosion area.

The project site information is summarized below:

Project Site Information	Area (acres)
Total Site Area	31.98
Existing Site Impervious	0.44
Disturbed Site Impervious Area	0.44 (100%)
Proposed Site Impervious Area	6.49 (>100% increase)
Change in Site Impervious Area	6.05 (>100% increase)
Total Disturbed Area	21.56

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

1. Application received March 15, 2021 (Incomplete notice was sent on March 29, 2021; materials submitted to complete application on April 13, 2021)
2. Construction Plan Sheets (37 sheets) dated February 19, 2021 (revised April 13, 2021, April 23, 2021, and May 20, 2021), updated Wetland Management Plan sheet (sheet 27) dated May 4, 2021
3. Stormwater Management Study dated March 15, 2021 (Revise April 13, 2021, April 23, 2021, and May 20, 2021)
4. Geotechnical Evaluation Report by Braun Intertec dated March 5, 2020
5. Wetland Delineation Report received March 15, 2021
6. Double Ring Infiltrometer test dated April 6, 2021
7. Electronic HydroCAD models received on March 15, 2021 (revise April 13, 2021 and April 23, 2021)
8. Electronic MIDS models received on March 15, 2021 (revised April 13, 2021 and April 23, 2021)
9. Engineers' opinion of probable cost received April 13, 2021

10. Response to RPBCWD review comments received April 13, 2021
11. Response to RPBCWD review comments received April 23, 2021
12. Noble Hill Development / Standal Property Field Review Observations of Riley Purgatory Bluff Creek Watershed Possible Mapped Stream Locations memo dated May 3, 2021.
13. Noble Hill Final Plat and Land Alteration plan set (40 sheets) dated May 20, 2021

Rule A: Procedural Requirements

Because the proposed project includes undertaking an activity for which a RPBCWD permit is required, the applicant must obtain the required permit prior to commencing the activity that is regulated by the District and must conform to the RPBCWD's Procedural Requirements (Rule A).

Rule A, Subsection 2.3 requires that an application be authorized by all property owners must be submitted to the District to obtain a permit. Because the construction of the proposed turn lanes on City of Eden Prairie right of way is part of the project, the applicant provided documentation demonstrating that the necessary land-use rights have been obtained for the proposed activities.

Rule C: Erosion and Sediment Control

Because the project will involve 21.56 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 silt fence and bio-rolls, inlet protection to protect storm sewer catch basins, a rock construction entrance, decompaction of areas compacted during construction, rip-rap at outfalls into infiltration basins, stabilization of steep slopes, and retention of native topsoil onsite. To conform to the RPBCWD Rule C the following revisions are needed:

- C1. Identification of the name, address, and phone number of the individual who will remain liable to the District for performance under this rule and maintenance of erosion and sediment control measures from the time the permitted activities commence until vegetative cover is established.

Rule D: Wetland and Creek Buffers

Because Riley Creek and a wetland are downgradient from the proposed land disturbing activities, the project must conform to the requirements in the RPBCWD Wetland and Creek Buffers rule (Rule D, Subsection 3). Because the creek and wetland will not be disturbed by the proposed activities, buffers are needed only along the areas downgradient from the land-disturbing activity. The site also features significant varying slopes, and steep slopes constituting a high-risk erosion area (HREA) as delineated by the District.

The MnRAM analysis submitted with the wetland delineation report indicates the wetland is an exceptional value wetland (Appendix D1). Rule D, Subsection 3.1.b.i requires a wetland buffer with an average of 80 feet from the delineated edge of the wetland, minimum 40 feet. The buffer widths are summarized in the Table 4 below. The property boundary and land-disturbing activities are also located

upgradient from Riley Creek, which is along the western portion of the property, requiring a 50-foot average, 30-foot minimum buffer, extending 50 feet from each of the upstream and downstream extent of disturbance (Rule D, subsections 3.1.c and 3.2.b.v). Because the required buffer for the creek overlaps and buffer for the exceptional value wetland, the applicant is providing buffer to whichever requirement extends farther upgradient.

In some areas the base buffer required intersects a steep slope as defined in Rule D, subsection 3.2.c. In these areas, the buffer must extend to the top of the slope. Because the property encompasses steep slopes within a high risk erosion area, the project must provide for buffers averaging 50 feet wide with minimum width of 30 feet from the thalweg of any watercourse within the high risk erosion area (Rule D, Subsection 2.1b and 3.2bvi). The RPBCWD HREA maps, based on a desk top analysis, identified nine potential watercourse within the HREA on the site. The applicant conducted a site review on May 1, 2021 to identify the presence or absence of existing watercourse within the HREAs and summarized the finding in a May 3, 2021 memorandum (attached for reference). The RPBCWD engineer also visited the site on May 3rd to review the HREA for existing watercourses and erosion. The engineer concurs with the applicant’s assertion that there are no visible signs of existing watercourses in eight of the nine potential areas identified on RPBCWD’s HREA maps. Because existing watercourse were not observed in the field, buffering requirements do not apply to those eight areas. The RPBCWD engineer also concurs with the applicant’s observation of the presence of an existing drainage way located in the southwest corner of the site (identified as location 9 in the applicant’s memo). The applicant’s proposed buffer for the watercourse within the HREA conforms to the Rule D, Subsection 3.2.b.vi requirements.

Plan sheets submitted by the applicant show buffer that conforms to Rule D, subsection 3.2b. As shown in the table below, the required buffer width to conform to Rule D, subsection 3.2c, is greater than the required buffer width to conform to Rule D, subsection 3.2.b.i, 3.2.b.v and 3.2.b.vi; the width requirements are met.

Wetland Buffer Analysis Summary

Resource ID	RPBCWD Wetland Value	Required Minimum Width ¹ (ft)	Required Average Width ¹ (ft)	Provided Minimum Width (ft)	Provided Average Width (ft)
Wetland 1 ²	Exceptional	40	80	40	80.7
Riley Creek	NA	30	50	75	244
HREA 9 ²	NA	30	50	50	75

¹ Average and minimum required buffer width under Rule D, Subsection 3.1.b

² The buffers for these resources intersect a steep slope and extend to the top of the slope, see attached Wetland Management Plan (sheet 27) for buffer illustration.

Plan documents show that disturbed areas within the buffer area will be maintained with native vegetation and maintained in a natural state (subsection 3.3). As shown on the Wetland Management

Plan (Sheet 27), the buffer markers will be placed per District criteria (subsection 3.4). The following revisions are needed to conform to the RPBCWD Rule D:

- D1. A note must be 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.
- D2. 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. The maintenance declaration must also include an exhibit clearly showing the buffer area and monument locations.

Rule J: Stormwater Management

Because the project will disturb 21.56 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 more than 100 percent (Rule J, Subsection 2.3).

The developer is proposing construction of three infiltration basins and one sediment basin 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
Riley Creek	1.3	0.5	2.0	1.0	10.7	4.3	4.1	0.8
SW	0	0	0	0	0.2	0.2	0.4	0.3
Spring Rd Pond	1.5	1.1	2.3	1.7	5.5	4.8	1.6	1.1

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 25,899 cubic feet is required from

the 6.49 acres (282,530 square feet) of new and reconstructed impervious area on the site for abstraction.

Soil borings performed by Braun Intertec on September 9, 2019 show that soils in the project area are primarily silty sand with subsurface soils of mainly poorly graded sand. Braun Intertec conducted a double-ring infiltration test at IB-2 resulting in a measured infiltration rate of 19.2 inches per hour (in/hr). The applicant is proposing 6 inches of compost into the design of infiltration basin IB-2 to reduce the infiltration rate below the maximum allowable rate listed in Rule J, Subsection 3.1.b.4 (8.3 in/hr). The engineer concurs with the applicant’s design infiltration rate at IB-2 of 4.0 in/hr, which is significantly lower than the measure rate because of the compost amendments. Because of dense tree cover at IB-1 and the proximity to the existing house at IB-3, infiltration testing was not feasible at IB-1 or IB-3. Based on the soils present at IB-1 and IB-3 the engineer concurs with the applicant’s use of a design infiltration rate of 4.0 in/hr and 0.8 in/hr respectively. The engineer concurs that the basins will drawdown 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	25,899	1.5	36,388

Sump manholes with baffles and the sedimentation basin will serve as pretreatment for runoff into the infiltration basins (Rule J, Subsection 3.1.b.1). Groundwater was encountered in soil boring ST-4 at the proposed infiltration basin (IB-3) at a depth of 19 feet (elevation 745). Groundwater is not encountered at ST-1 and ST-3, which are located at infiltration basins IB-1 and IB-2. The end of boring elevation for ST-1 and ST-3 are 793 and 778, respectively. The following table demonstrates that the proposed design provided adequate separation between the bottom of the infiltration basins IB-2 and IB-3 and the groundwater (Rule J, Subsection 3.1.b.2.a). Because soil boring ST-1 stopped at elevation 793, which is only 2 feet below the bottom of infiltration basin IB-1, additional soil investigation will be needed to verify compliance with Rule J subsection 3.1.b.2.

Infiltration Basin	Bottom Elevation (feet)	Groundwater Elevation (feet)	Separation (feet)
IB-1	795	793 ¹	2
IB-2	806	778 ¹	28
IB-3	757	745	12

¹ No groundwater observed at the bottom of the soil boring

Because of existing site constraints at infiltration basins IB-1 and IB-3, infiltration testing was not taken at those BMP locations and it is unclear if the soils have adequate infiltration capacity. Per Rule J, Subsection 3.1.b.2.c measured infiltration capacity of the soils at the bottom of the infiltration systems must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.1b, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).

In addition, the infiltration testing completed at infiltration basin IB-2 resulted in an infiltration rate of 19.2 in/hr which significantly higher than the allowable rate listed in Rule J, Subsection 3.1.b.4 (8.3 in/hr). The plans include a note requiring infiltration testing to ensure the infiltration rates do not exceed the allowable rate. Because the proposed existing soils have a higher than allowable infiltration capacity, performance monitoring for the site will be required to ensure that the project is able to meet the RPBCWD abstraction criteria. In accordance with Rule J, Subsection 2.6 performance monitoring, and as a stipulation of issuing a permit for this project, the Applicant must monitor the proposed infiltration basins to determine the ability of the system to achieve the design requirements as presented in the design for two years after final site stabilization.

To conform to the RPBCWD Rule J, Subsection 3.1.b the following revision is needed:

- J1. Because soil boring ST-1 stopped at elevation 793, which is only 2 feet below the bottom of infiltration basin IB-1, additional soil investigation will be needed to verify compliance with Rule J subsection 3.1.b.2.

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. 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)
Blk 3, Lot 26	816	Sedimentation Pond	799.44	16.56
Blk 1, Lot 1	800.9	IB-1	799.41	1.49 ¹
Blk 3, Lot 6	853.6	IB-2	809.49	44.11
Blk 3, Lot 7	858.8	IB-2	809.49	49.31
Blk 3, Lot 8	863.5	IB-2	809.49	54.01
Blk 3, Lot 9	860	IB-2	809.49	50.51
Blk 3, Lot 10	854.4	IB-2	809.49	44.91
Blk 3, Lot 11	848.4	IB-2	809.49	38.91
Blk 3, Lot 12	842.4	IB-2	809.49	32.91
Blk 3, Lot 13	826.0	IB-2	809.49	16.51
Blk 3, Lot 14	820	IB-2	809.49	10.51
Blk 3, Lot 15	815.2	IB-2	809.49	5.71
Blk 3, Lot 16	810.2	IB-3	762.7	47.5
Blk 3, Lot 17	806.9	IB-3	762.7	44.2
Blk 3, Lot 18	803.9	IB-3	762.7	41.2
Blk 3, Lot 19	804.4	IB-3	762.7	41.7
15559 Lilac Dr	819 ²	IB-1	799.41	19.59
15561 Lilac Dr	819 ²	IB-1	799.41	19.59
15563 Lilac Dr	820 ²	IB-1	799.41	20.59
15565 Lilac Dr	820 ²	IB-1	799.41	20.59

¹ Because the low floor elevation of Block 1, Lot 1 (800.9 ft) is greater than 1-foot above the emergency overflow of the adjacent stormwater management facility, the proposed low floor conforms to Rule J, subsection 3.6a.

² The low floor of the existing structures adjacent to IB-1 were estimated by subtracting 10 feet from the lowest adjacent grade taken from available topographic information.

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.

- J2. Permit applicant must provide a maintenance and inspection declaration. A maintenance declaration template is available on the permits page of the RPBCWD website. (<http://www.rpbcwd.org/permits/>). A draft declaration must be provided for District review prior to recording.

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 the streets within the proposed residential development will be dedicated to the city as public right of way and therefore maintained by Eden Prairie and the city has provided its chloride

management plan and its designated state-certified chloride applicator is Eden Prairie’s Streets Division Manager Larry Doig, the proposed development conforms with Rule J, subsection 3.8.

Wetland Protection

Because the proposed activities discharge to a protected wetland (Wetland 1) 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 falls in the exceptional value category. The following table summarizes the allowable change in bounce and inundation duration from Table J1.

Summary of allowable impacts on onsite wetland from Rule J, Table J1

Wetland Value/ Waterbody	Permitted Bounce for, 10-Year Event	Inundation Period for 1- and 2-Year Event	Inundation Period for 10-Year Event	Runout Control Elevation
High	Existing	Existing	Existing	No change

Because wetland 1 is on slopes and is not an enclosed natural depression, bounce and inundation periods cannot be estimated. As a surrogate to support compliance with the bounce and inundation criterion the applicant has demonstrated, and the engineer concurs, that the proposed flow rate and volumes flowing towards wetland 1 are slightly less than the existing flows. The reduction in the 10-year runoff volume reaching the wetland is roughly 784 cubic feet. Distributing this volume over the wetland area results an immaterial change in depth. Therefore, the project is in conformance with Rule J, subsection 3.10a.

Rule J, subsection 3.10b requires discharge from regulated disturbed areas be treated to meet at least 75 percent annual removal efficiency for phosphorus and 90 percent annual removal efficiency for total suspended solids prior to discharge to an exceptional value wetland. As summarized in the water quality analysis in table below, the portion of the site runoff tributary to Wetland 1 will be treated by two infiltration basins to provide 98% TSS and 98% TP removal prior to discharging to the wetland in accordance with Rule J, subsection 3.10b.

Annual TSS and TP removal prior to discharging to Wetland 1

Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr)	Provided Load Reduction (lbs/yr)
Total Suspended Solids (TSS)	2,142	1,923 (90%)	2,106 (98%)
Total Phosphorus (TP)	11.8	8.8 (75%)	11.6 (98%)

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 March 22, 2021.

Rule M: Financial Assurance:

Rules C: Silt fence and bio-logs:8,720 L.F. x \$2.50/L.F. =	\$21,800
Inlet protection: 34 x \$100 =.....	\$3,400
Rock Entrance: 1.0 x \$900 =.....	\$900
Restoration: 21.56 acres x \$2,500/acre =	\$53,900
Rules J: Stormwater Management Facilities: \$45,112 x 125% of engineer’s opinion of cost=	\$56,390
Contingency (10%)	<u>\$13,640</u>
Total Financial Assurance.....	\$150,030

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 will conform to Rules C, D and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

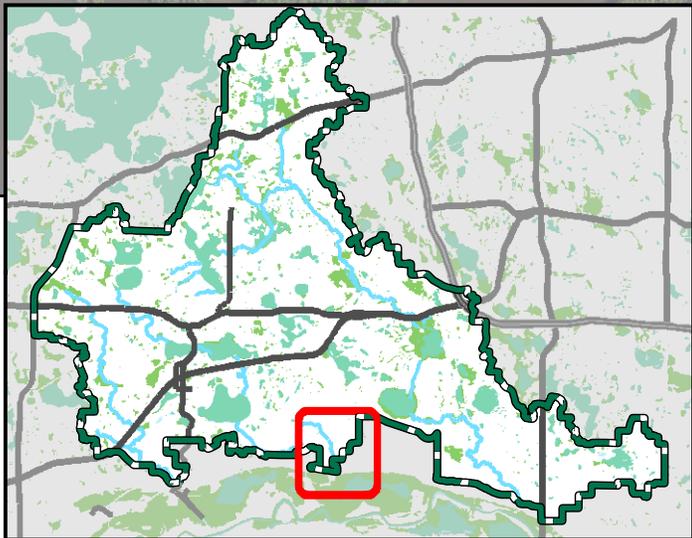
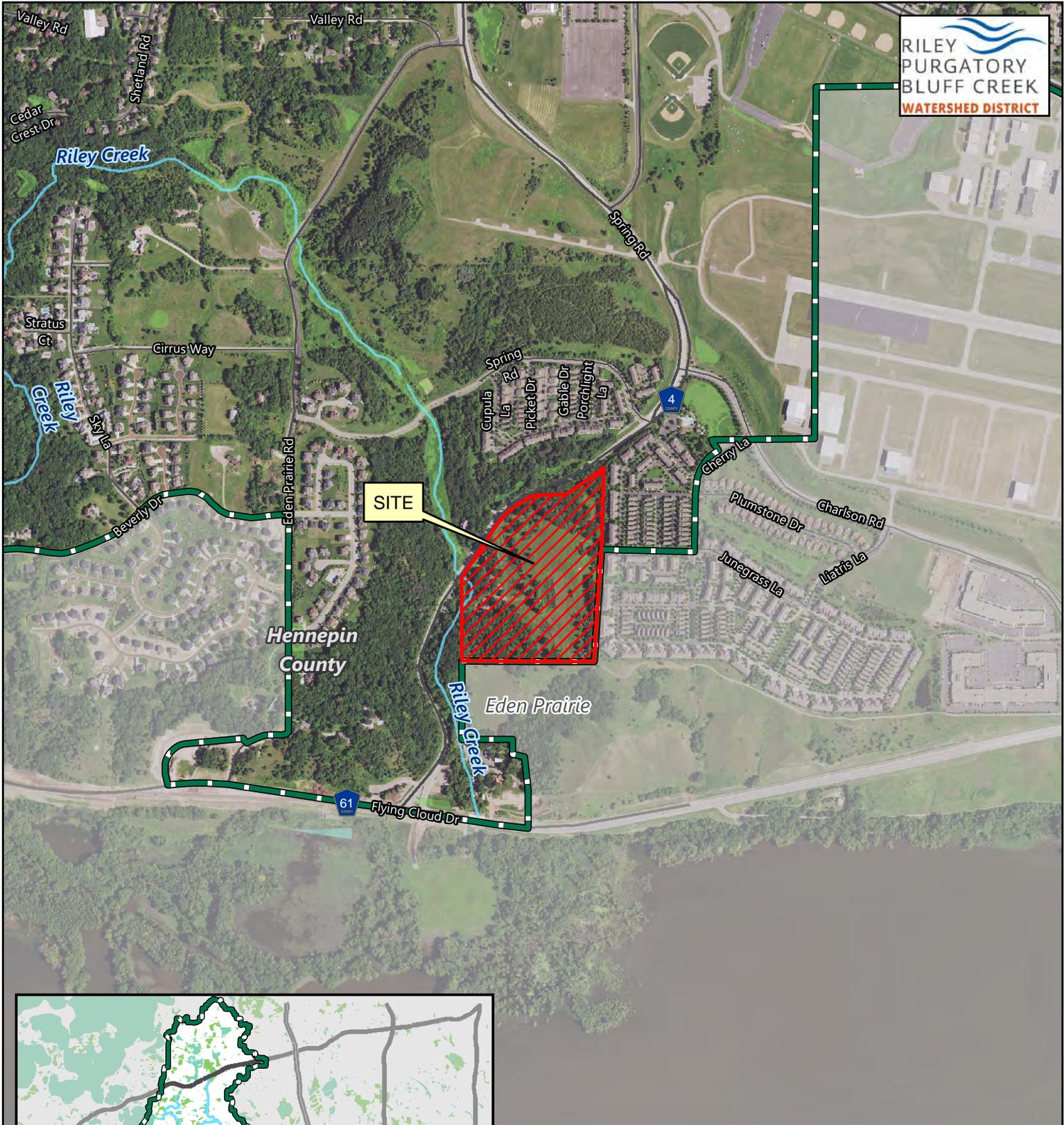
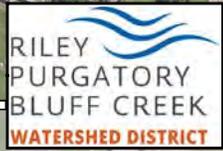
Approval of the permit issuance contingent upon:

1. Continued compliance with General Requirements.
2. Financial Assurance in the amount of \$150,030.
3. The applicant providing documentation demonstrating that the necessary land-use rights have been obtained for the proposed activities within right of way.
4. The applicant providing the name and contact information of the general contractor responsible for erosion and sediment control at the site.
5. Because soil boring ST-1 stopped at elevation 793, which is only 2 feet below the bottom of infiltration basin IB-1, additional soil investigation will be needed to verify adequate separation to groundwater (Rule J subsection 3.1.b.2).
6. 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.

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

1. Per Rule J, Subsection 3.1.b.ii measured infiltration capacity of the soils at the bottom of the infiltration systems IB-1 and IB-3 must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.1b, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).
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 Noble Hills parcel under the terms of permit 2021-012, 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. Because the proposed existing soils have a higher than allowable infiltration capacity, performance monitoring for the site will be required to ensure that the project is able to meet the RPBCWD abstraction criteria has been proposed. In accordance with Rule J, Subsection 2.6 performance monitoring, and as a stipulation of issuing a permit for this project, the Applicant must monitor the proposed infiltration basins to determine the ability of the system to achieve the design requirements as presented in the design for two years after final site stabilization. If it is determined that the system is not performing as designed, property owner will need to submit a revised design and construction plan to demonstrate that the design criteria are achieved.



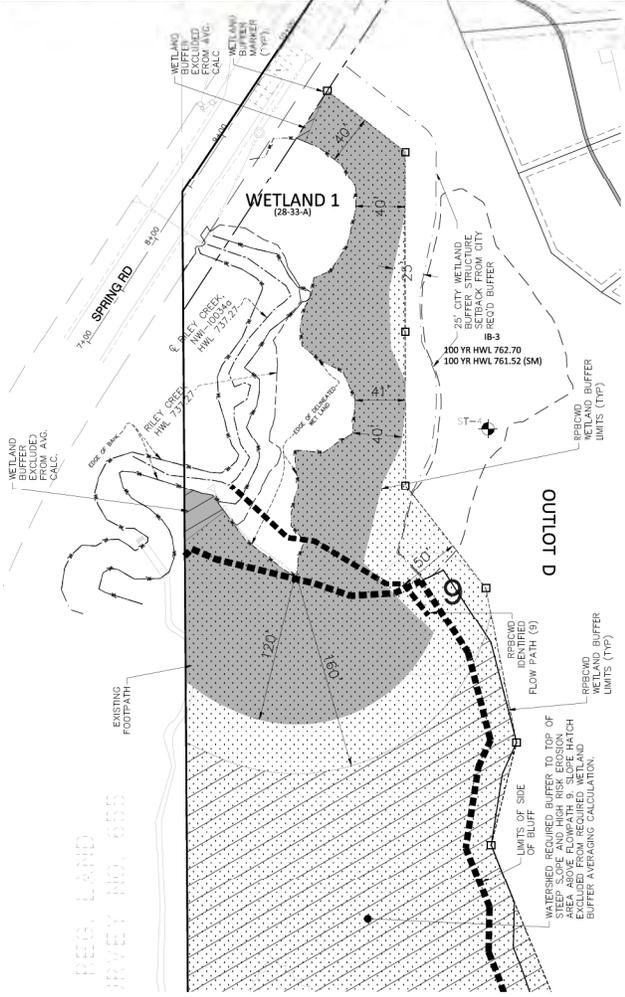
Permit Location Map



Feet



NOBLE HILL
Permit 2021-012
Riley Purgatory Bluff Creek
Watershed District



WETLAND SUMMARY:

WETLAND 1:
 WETLAND TYPE: EXCEPTIONAL (PER RPBOWD)
 REQUIRED BUFFER MINIMUM WIDTH: 40' (PER RPBOWD), 4C' (PER CITY)
 REQUIRED BUFFER AVERAGE WIDTH: 80' (PER RPBOWD), 6C' (PER CITY)
 ALLOWED MAXIMUM BUFFER WIDTH: 160' (RPBOWD), 120' (CITY)
 REQUIRED CITY STRUCTURE SETBACK TO CITY WETLAND BUFFER: 25'
 WETLAND AREA*: 0.74 AC
 830 US NATIONAL PROPERTY OFFENSE 8/A & WAIVE REQUIRED AVERAGE BUFFER DISTANCE (S AVAILABLE)
 MINIMUM BUFFER AREA REQUIRED (RPBOWD): 42,400 SF (80')
 PROVIDED BUFFER AREA (RPBOWD)**: 60,741 SF
 MINIMUM BUFFER AREA REQUIRED (CITY): 31,800 SF (60')
 PROVIDED BUFFER AREA (CITY)**: 43,267 SF
 PROPOSED AVERAGE WIDTH (CITY): 81.64'

AREA OF WETLAND LIMITS AND RPBOWD PROPERTY BOUNDARY:
 **CITY AVERAGING RULES USED FOR CALCULATION OF CITY BUFFER REQUIREMENT AND THE CITY'S REQUIRED 25' STRUCTURE SETBACK IS OFFSET FROM CITY BUFFER.

CLEAN WATER STARTS HERE

LEGEND:

- LOT LINE
- PROPERTY LINE
- BUILDING SETBACK
- EASEMENT LINE
- ROW
- WETLAND DELIMITATION
- WETLAND BUFFER (AS REQUIRED BY RPBOWD)
- 25' STRUCTURE SETBACK TO CITY WETLAND BUFFER
- WETLAND BUFFER MARKER (BROWD LIMITS)
- RPBOWD BUFFER PROVIDED, BUT EXCLUDED FROM BUFFER AVERAGING CALCULATION
- RPBOWD IDENTIFIED FLOW PATH (9)



SCALE: 1" = 50' FEET

TREE REPLACEMENT REQUIREMENTS:

- 1. MINIMUM OF ONE (1) TREE REPLACEMENT PER 100 SQ FT OF DISTURBED AREA.
- 2. SEE TREE REPLACEMENT/REPLACEMENT CALCULATIONS.
- 3. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 4. MINIMUM OF ONE (1) TREE REPLACEMENT PER 100 SQ FT OF DISTURBED AREA.
- 5. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 6. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 7. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 8. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 9. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 10. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 11. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 12. TREE REPLACEMENT SHALL BE AS FOLLOWS:
- 13. TREE REPLACEMENT SHALL BE AS FOLLOWS:

PLANTING NOTES:

1. ALL PLANTING SHALL BE DONE BY 10/15/2022 FOR LOGGING ALL UNDESIRABLE TREES AND ANY DAMAGE TO UTILITIES DURING THE COURSE OF THE WORK.
2. INSTALL 1" DIA. 10' TO 15' TO ALL SOIL TO ALL SOIL AND SEED BEDS, EXCEPT FOR PLANTATION BASIN AREAS SHALL RECEIVE ONLY 3" TOP SOIL, FINE GRADE, ALL SOIL AND SEED AREA.
3. STAKE OR MARK ALL PLANT MATERIALS, LOGS, AND ROOTS TO BE REMOVED, AND MARKERS REPRESENTATIVE APPROVE PLANTING LOCATION.
4. INSTALL 4"-6" DEPTH SLOTTED HARDWOOD MESH, NATURAL COLOR, AROUND ROOT SACKS OF ALL TREES ISOLATED FROM PLANT BEDS.
5. PLANTING SOIL SHALL BE 100% COMPOST, 30% TOP SOIL, 30% PEAT MOSS, 30% PER RITE SOIL.
6. COMPLETELY SHUTTER ALL WORK FOR A PERIOD OF ONE (1) YEAR BEYOND THE DATE OF ACCEPTANCE. MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER) EXCEPT THAT ALL BOLLIVINE AND W/OUT TREES INCLUDING ORNAMENTAL TREES SHALL HAVE A 3-YEAR ESTABLISHMENT PERIOD UPON APPROVAL OF WORK.
7. ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERMEN.
8. ALL TREE TRUNKS SHALL BE MARKED WITH BROWN CHEE TREE WRAP APPLY WRAP IN NOVEMBER AND REMOVE IN APRIL.
9. MARKING ALL PLANT MATERIALS, INCLUDING WATERING, UNTIL THE TIME OF ACCEPTANCE.
10. COORDINATE ALL LANDSCAPE INSTALLATION WITH GENERAL CONTRACTOR.
11. STAKE AND DIGGING OF TREES OPTIONAL. MARKING PLACEMENT OF TREES FOR DIRECTION OF MAINTENANCE PERIOD.
12. STAKE AND DIGGING OF TREES OPTIONAL. MARKING PLACEMENT OF TREES FOR DIRECTION OF MAINTENANCE PERIOD.
13. SOIL VIBRATION DESIGN AND INSTALLATION FOR VIBRATION DESIGN WITH CONTINGENCY OF SOIL AND PLANTING AND/OR EQUIPMENT. USE NUMBER OR APPROVED EQUAL, COORDINATE WITH G.C. PROVIDE SENSITIVE COORDINATE WITH GENERAL CONTRACTOR ON LOCATION OF VIBRATION.

SEEDING NOTES:

- 1. ALL SEEDING SHALL BE DONE BY 10/15/2022 FOR LOGGING ALL UNDESIRABLE TREES AND ANY DAMAGE TO UTILITIES DURING THE COURSE OF THE WORK.
- 2. SEEDING SHALL BE AS FOLLOWS:
- 3. SEEDING SHALL BE AS FOLLOWS:
- 4. SEEDING SHALL BE AS FOLLOWS:
- 5. SEEDING SHALL BE AS FOLLOWS:
- 6. SEEDING SHALL BE AS FOLLOWS:
- 7. SEEDING SHALL BE AS FOLLOWS:
- 8. SEEDING SHALL BE AS FOLLOWS:
- 9. SEEDING SHALL BE AS FOLLOWS:
- 10. SEEDING SHALL BE AS FOLLOWS:
- 11. SEEDING SHALL BE AS FOLLOWS:
- 12. SEEDING SHALL BE AS FOLLOWS:
- 13. SEEDING SHALL BE AS FOLLOWS:



TOTAL	KEY	COMMON NAME	SCIENTIFIC NAME	PLANTING SIZE / ROOT TYPE	TOTAL INCHES	NOTES
FRONT YARD OVERSTORY TREES						
11	HR	Common Hackberry	Celtis occidentalis	3" cal. 8.8	331N	Straight Trunk, No V-Grass
9	HC	Skivine Honeylocust	Gleditsia inaequalis var. serotina	3" cal. 8.8	271N	Straight Trunk, No V-Grass
4	KC	Espresso Kentucky Coffeetree	Gymnocladia dioica 'Espresso'	3" cal. 8.8	121N	Straight Trunk, No V-Grass
19	RM	Red Sunset Maple	Acer rubrum 'Franksford'	3" cal. 8.8	571N	Straight Trunk, No V-Grass
BACKYARD OVERSTORY TREES						
5	SO	Southern Yellow Pine	Pinus strobus	10" H. 8.8	361N	Full form
3	BP	Balsam Poplar	Populus balsamifera	10" H. 8.8	321N	Full form
8	RP	Red Pine	Pinus strobus	10" H. 8.8	1321N	Full form
100 LOT TREES SUBTOTAL						
					560N	SUBTOTAL INCHES
ADDITIONAL OVERSTORY TREES						
86	RO	Red Oak	Quercus rubra	1.5" cal.	1261N	Straight Trunk, No V-Grass
3	RD	Red Oak	Quercus rubra	3" cal. 8.8	91N	Straight Trunk, No V-Grass
4	RB	River Birch	Betula nigra	8" H. 8.8	131N	Straight Trunk, No V-Grass
11	KC (A)	Espresso Kentucky Coffeetree	Gymnocladia dioica 'Espresso'	2.5" cal. 8.8	281N	Straight Trunk, No V-Grass
4	RM	Red Sunset Maple	Acer rubrum 'Franksford'	3" cal. 8.8	121N	Straight Trunk, No V-Grass
13	SO (A)	Southern Yellow Pine	Pinus strobus	1.5" cal. 8.8	331N	Straight Trunk, No V-Grass
ADDITIONAL CONIFEROUS TREES						
37	RP	Red Pine	Pinus strobus	10" H. 8.8	1461N	Full form
17	RP	Red Pine	Pinus strobus	10" H. 8.8	1321N	Full form
27	MU	Major Juniper	Juniperus scopulorum 'Meyeroof'	10" H. 8.8	1081N	Full form
11	RP	Red Pine	Pinus strobus	10" H. 8.8	441N	Full form
					641N	SUBTOTAL INCHES
227					ADDITIONAL TREES SUBTOTAL	
327					TREE GRAND TOTAL	
					997N	INCHES GRAND TOTAL

Note:
 - Height to caliper inches conversion 4" = 10"
 - Quantities for plant replacement list converted to a discrepancy.



ALLIANT

Memorandum

TO: Scott Sobiech, CFM PE - Barr
CC: Paul Heuer & Dean Lotter - PH Terry Jeffrey – RPBCWD, Patrick Sejkora – EP, Seth Loken - AE
FROM: Mark Rausch, PE
DATE: 5/3/21
SUBJECT: **Noble Hill Development / Standal Property Field Review Observations of Riley Purgatory Bluff Creek Watershed Possible Mapped Stream Locations**

The following summary documents field findings at each of the nine possible stream locations identified in RPBCWD high risk erosion area mapping on the Standal property in Eden Prairie, MN. See attached RPBCWD map and Alliant Engineering overlay of RPBCWD mapped possible streams for reference to the observations. The memo will provide a description of each location and corresponding image or images with description. The field observations (site visit on 5/1/21) have determined there are no defined streams present at locations 1-8 with location 9 being the only area with a definitive drainage way.

Observations

Location 1: Watershed mapping identifies a stream at location 1. Location 1 is identified along the east edge of Spring Road. This location is the edge of a roadway that has a bituminous shoulder with bituminous curb. The roadway abuts the Standal property with no evidence of erosion. This location is not a stream with potential for erosion. See Image 1.

Image 1 – Looking north along Spring Road at Location 1. East curb line is visible and is not a stream.



Location 2: The watershed mapping identifies a stream at location 2. Location 2 is a wooded slope with sheet drainage and no definitive drainage way and no potential for erosion was observed. Images show evenly sloped wooded areas with no channelization in area of location 2. No stream is present. See Images 2, 3, 6 and 7.

Image 2 – Looking east at Location 2, tree 2589 is in right front of picture. Even slope with typical sheet flow drainage. No stream present.



Image 3 – Looking easterly at location 2 from a wider view, tree 2590 now in right front of picture. Even slope with typical sheet flow drainage. No stream present.



Location 3: The watershed mapping identifies a stream at location 3. Location 3 is a wooded slope with sheet drainage and no definitive drainage way and, no potential for erosion. Images show evenly sloped wooded areas with no channelization in area of location 3. No stream present. See Images 4-7.

Image 4 – Looking east at location 3 with tree 2598 shown right side picture. Even slope with typical sheet flow drainage. No stream present.



Image 5 – Looking south at location 2 from a wider view. Tree 2595 now in right front of picture. Even slope with typical sheet flow drainage. No stream present.



Image 6 – Panoramic view looking east at location of 2 and 3 from a wider view from northeast of existing LP tank. Even slope with typical sheet flow drainage. No stream present.



Image 7 – View looking south at top of locations 2 and 3 at west side of existing tree farm and transition to wooded slope. Existing grade flattens at farmed area and is evenly slope land with no streams present.



Locations 4 and 5: The watershed mapping identifies a stream at location 4 and 5. The locations are south from the edge of the woodland and within the existing Standal maintained lawn. The lawn area is evenly sloped draining by sheet flow with no definitive drainage way, and no potential for erosion. A portion of location 4 is also shown in the watershed mapping to extend easterly into and across the existing tree farm area. There was no definitive drainage way, and no potential for erosion. Images show evenly sloped lawn areas or tree farm with no channelization in area of location 4 or 5. No streams present. See Images 8-13.

Image 8 – Panoramic view looking east at general location of 4 and 5 from a wider view from driveway. Even slope with sheet drainage was visible. No stream present.



Image 9 – View looking north from driveway to location of 4 within lawn area. Land is evenly sloped draining by sheet flow. No stream present.



Image 10 – View looking north from driveway to location of 4 and 5 behind the existing Standal home. View looks towards the watershed’s mapped locations 4 and 5 within lawn area. Area is evenly slope with sheet drainage visible. No streams present.



Image 11 – View looking northeasterly at location 4 from wider view of tree farm. Land is evenly sloped draining by sheet flow. No stream present.



Image 12 – View looking north at location 4 and the transition from tree farm to wooded area. Land is evenly sloped draining by sheet flow. No stream present.



Image 13 – View looking east at location 4 to the northeast of the Standal home. This is a typical view of the tree farm as it sits upon sloped land but with no defined drainage way or channelized flow way present in the tree farm area. Area is evenly sloped with only sheet drainage. No stream present.



Image 14 – View looking east at location 4 to the northeast of the Standal home. This is a typical view of the tree farm as it sits upon sloped land but with no drainage way or channelized flow way present in the tree farm area. Area is evenly sloped with sheet drainage. No stream present.



Locations 6, 7 and 8: The Watershed has mapped 3 streams in the location just downgradient of the existing Standal driveway. The stream locations identified sit atop a very short section of steeper slope (typically only 20-25' long) just upland of the existing wetland. The field review observed that the slope area has a very short horizontal distance which does not allow time or distance for channelization of water. The existing driveway is also graded such that it is tipped away from the slope and collects water along a curb on the east side of the driveway opposite the existing slope. The slope off the west side of the driveway is steeper but quite short and quickly transitions into a flat plain wetland. The slope west of the driveway is steeper but was evenly sloped with drainage by sheet flow with no streams present. See images 15-21.

Images 15 – View looking southerly toward slope with locations 6 and 7. Slope is evenly sloped with drainage by sheet flow to wetland. Sloped area is short and even, no streams are present.



Image 16 – View looking south along slope and locations 6 and 7. Image shows how short the slope is and the even grade of the slope. No streams are present.

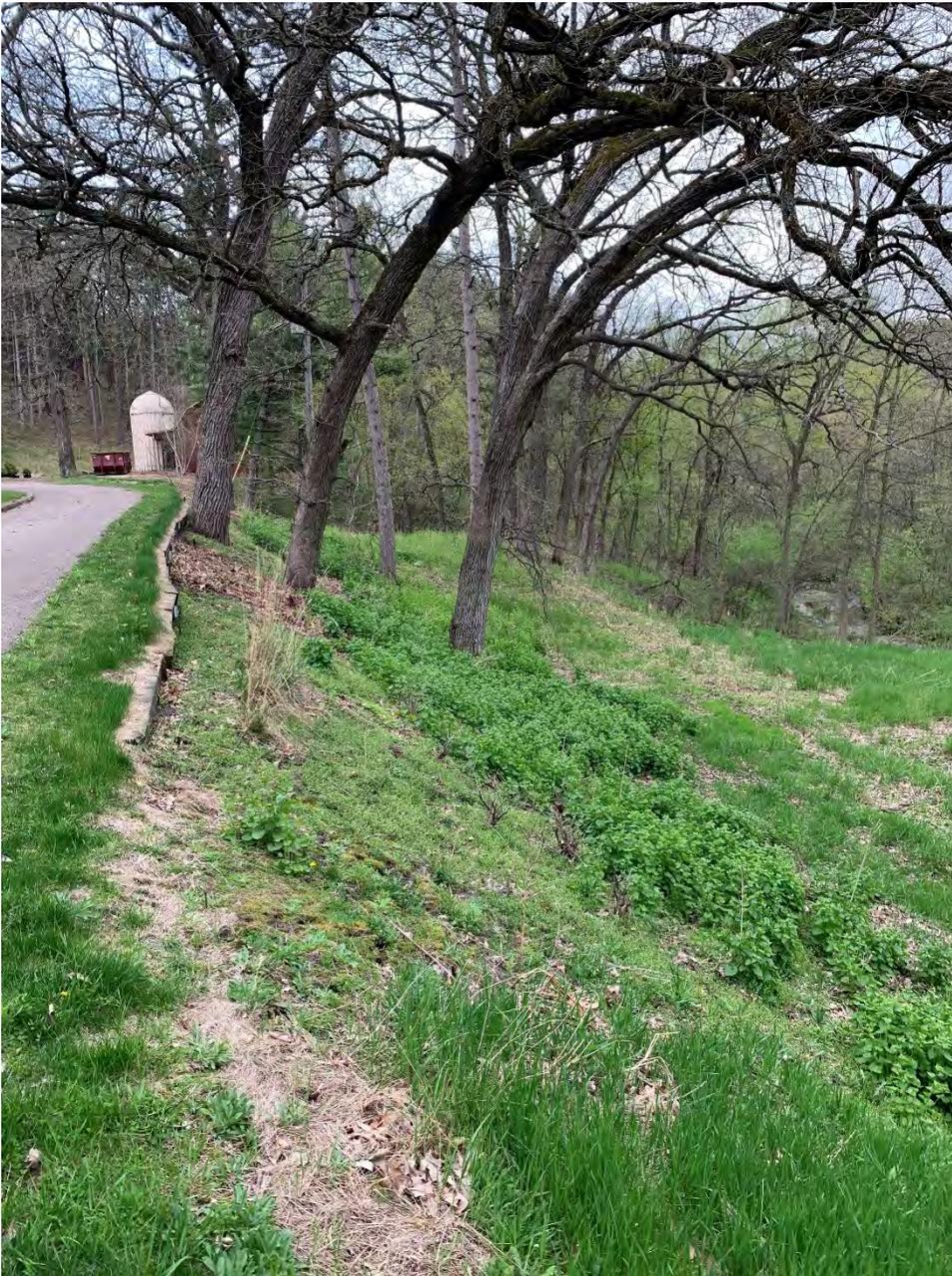


Image 17 – Looking south along driveway towards locations 6-7. Image shows that driveway tips away from the slope limiting any existing drainage towards slope from the east.



Image 18 – View looking north towards locations 6 and 7. Image shows the driveway tips to the east, the sloped area is short and even. No streams are present.



Image 19 – View looking south towards location 7 and 8. Image shows driveway area tips to east away from the slope. Image shows also how short the existing slope area is. No stream is present.



Image 20 – Another view looking south towards location 7 and 8 like image 19. Image shows the short horizontal slope and driveway tip to the east away from slope. No stream present.



Image 21 – Another view looking south to locations 7 and 8 like images 19 and 20 with focus on working flat driveway area of the tree farm. No stream present.



Location 9: The watershed mapping has indicated a stream on the south end of the existing Standal tree farm working area and barn. Field observation did identify a combination natural and manmade flow route for drainage in this location. The south end of the existing homesite abuts a natural wooded slope that sheets to a swale at the base of the slope and along the south of the tree farm home area. This flow is routed to 2 different existing culverts, one culvert to the east of the barn to direct water around the south end of the barn and a 2nd culvert off the southwest corner of the barn which routes flow to Riley Creek. Both culverts appear to have been in place routing runoff this way for a long time. This is the only location of the 9 identified possible stream locations that showed clear evidence of channelized flow, though there was no evidence of any erosion present, nor does it appear a high risk for future erosion.

Image 22 – View looking east from tree farm working area/driveway up existing farm road. Right side of image shows location 9 as shallow depression and path of flow in wooded area.



Image 23 – Another view looking east from working area/driveway towards existing farm road and location 9. Drainage way comes from right in picture with 1st up stream culvert slightly visible behind evergreens in center of picture. Flow travels left to right through picture under shown woodpile.



Image 24 - View looking south over existing farm road to wooded slope and the location 9 drainage way, which is shown mid-picture south of the existing farm road in the wooded area.



Image 25 – View looking southwesterly towards existing farm, barn and location 9 drainage route around the south of the existing barn.



Image 26 – View looking southwesterly from area of 1st existing culvert along drainage route of location 9 around the south end of the existing barn.



Image 27 – View looking west along drainage route of location 9 around the south end of the barn. The 2nd existing culvert which captures the drainage is pictured at the far end of the image left of the barn.



Summary

The field review of the high-risk erosion area the Standal property and 9 identified stream locations conducted by Alliant Engineering, Inc. on May 1, 2021 showed no visible signs of erosion on the Standal property. Alliant also verified there are no defined drainage ways, channels or streams in locations 1-8 on the property. Alliant did identify an existing drainage way at location 9.

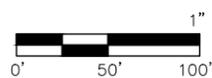


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HIGH RISK EROSION AREA NOBLE HILL

EDEN PRAIRIE, MN

EXISTING



DATE: 4-12-21
DRAWN BY: SIL
SCALE: 1"=100'

