



AUGUST						
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RCWD BOARD OF MANAGERS REGULAR MEETING AGENDA

Wednesday, August 9, 2023, 9:00 a.m.

Shoreview City Hall Council Chambers
4600 North Victoria Street, Shoreview, Minnesota

or via Zoom Meeting:

<https://us06web.zoom.us/j/84192639140?pwd=Tkg0b2QvQkpjN0lSc2NYT2FxODdZQT09>

Meeting ID: 841 9263 9140

Passcode: 256506

Dial by your location +1 312 626 6799 US (Chicago)

Meeting ID: 841 9263 9140

Passcode: 256506

Agenda

CALL TO ORDER

ROLL CALL

SETTING OF THE AGENDA

APPROVAL OF MINUTES: JULY 26, 2023 REGULAR MEETING

CONSENT AGENDA

The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

Table of Contents-Permit Applications Requiring Board Action

No.	Applicant	Location	Plan Type	Recommendation
23-044	City of Blaine	Blaine	Street & Utility Plan Public/Private Drainage System Wetland Alteration Floodplain Alteration	CAPROC 8 items

It was moved by Manager _____ and seconded by Manager _____, to approve the consent agenda as outlined in the above Table of Contents in accordance with RCWD District Engineer’s Findings and Recommendations, dated August 2, 2023.

Water Quality Grant Program Cost Share Application (Molly Nelson)

No.	Applicant	Location	Project Type	Eligible Cost	Pollutant Reductions	Funding Recommendation
A23-02	Cheryl & David Blackford	Circle Pines	Shoreline Restoration	\$5,241.25	Volume: 71.5% TSS: 74% TP: 72.6%	50% cost share of \$2,620.62 not to exceed 50%; or \$7,500 whichever cost is lower
R23-06	Jerilynn Ommen	White Bear Lake	Shoreline Restoration	\$22,957.49	Volume: 63% TSS: 90% TP: 76%	50% cost-share of \$7,500 not to exceed 50% or \$7,500, whichever cost is lower

It was moved by Manager _____ and seconded by Manager _____, to approve the Water Quality Grant consent agenda as outlined in the above table, in accordance with RCWD Staff’s Recommendation based on established program guidelines, dated August 3, 2023.

OPEN MIC/PUBLIC COMMENT

Any RCWD resident may address the Board in his or her individual capacity, for up to three minutes, on any matter not on the agenda. Speakers are requested to come to the podium, state their name and address for the record. Additional comments may be solicited and accepted 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 an upcoming agenda.

ITEMS REQUIRING BOARD ACTION

1. US Sitework, Inc. Partial Pay Request #7 Anoka County Ditch 53-62 Main Trunk Repair Project (Ashlee Ricci)
2. Public Drainage System Maintenance – Judicial Ditch 5 Drain Tile Replacement (Ashlee Ricci)
3. Check Register Dated August 9, 2023, in the Amount of \$169,104.19 Prepared by Redpath and Company

ITEMS FOR DISCUSSION AND INFORMATION

1. Ramsey County Ditch (RCD) 4 Repair Report (Ashlee Ricci)
2. District Engineer Update and Timeline
3. Administrator Updates
4. Manager’s Update

APPROVAL OF MINUTES: JULY 26, 2023 REGULAR MEETING

DRAFT

1
2 For Consideration of Approval at the August 9, 2023 Board Meeting.
3 Use these minutes only for reference until that time.
4

REGULAR MEETING OF THE RCWD BOARD OF MANAGERS

Wednesday, July 26, 2023

Shoreview City Hall Council Chambers
4600 North Victoria Street, Shoreview, Minnesota
and
Meeting also conducted by alternative means
(teleconference or video-teleconference) from remote locations

Minutes

CALL TO ORDER

President Michael Bradley called the meeting to order, a quorum being present, at 9:00 a.m.

ROLL CALL

Present: President Michael Bradley, 1st Vice-Pres. John Waller, 2nd Vice-Pres. Steve Wagamon,
Treasurer Marcie Weinandt

Absent: Secretary Jess Robertson (with prior notice)

Staff Present: District Administrator Nick Tomczik, Permit Coordinator/Wetland Specialist Patrick Hughes,
Communication and Outreach Specialist Kendra Sommerfeld, and Office Manager Theresa
Stasica

Consultants: District Engineers Chris Otterness and Bret Zimmerman from Houston Engineering, Inc.
(HEI); District Attorney Louis Smith from Smith Partners (video-conference)

Visitors: City of Columbus Administrator Elizabeth Mursko, City of Columbus Mayor Jesse Preiner,
Timothy (video-conference)

Motion by Manager Waller, seconded by Manager Weinandt, to appoint Manager Wagamon to serve as temporary Secretary Pro-Tem, in the absence of Manager Robertson. Motion carried 4-0.

SETTING OF THE AGENDA

District Administrator Tomczik requested that the agenda be amended to add a new Item #2 under Items
for Discussion related to Mn Watersheds Resolution

Motion by Manager Weinandt, seconded by Manager Bradley, to approve the agenda, as revised. Motion carried 4-0.

34

READING OF THE MINUTES AND THEIR APPROVAL

35

Minutes of the July 10, 2023 Workshop and July 12, 2023 Board of Managers Regular Meeting.

36

Motion by *Manager Wagamon, seconded by Manager Weinandt, to approve the minutes as presented.*

37

Motion carried 4-0.

38

39

CONSENT AGENDA

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The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

41

42

Table of Contents-Permit Applications Requiring Board Action

43

44

No.	Applicant	Location	Plan Type	Recommendation
23-035	MEP Lake Elmo	Lino Lakes	Final Site Drainage Plan	CAPROC 7 items

45

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It was moved by Manager Wagamon and seconded by Manager Waller, to approve the consent agenda as outlined in the above Table of Contents in accordance with RCWD District Engineer’s Findings and Recommendations, dated July 18, 2023. Motion carried 4-0.

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OPEN MIC/PUBLIC COMMENT

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None.

52

ITEMS REQUIRING BOARD ACTION

53

1. Rice Creek Watershed District’s Response Letter - Columbus Wetland Credit Request

54

District Administrator Tomczik noted that Columbus City Administrator Mursko and Mayor Jessie Preiner were present at today’s meeting and would like to address the Board.

55

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57

President Bradley acknowledged that the District had received a letter from the City of Columbus’ attorney, William Griffith of Larkin Hoffman. He asked if the representatives from the City wanted to present anything to the Board in addition to the letter.

58

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61

Columbus City Administrator Mursko explained that she had served as city administrator for 24 years and was present at the meeting that took place in 2009. She stated that she wanted to follow this project through and have it come to fruition. She gave an overview of their request and explained that they look at it as a process and procedure issue and not a legal issue because the agreement was a voluntary agreement of cooperation, collaboration, and good faith. She stated that was also her goal at the time and explained that she was the one that put the meeting together and hired the facilitator. She explained that the thought was to bring 5 government agencies together to find some commonality and have the projects come together. She stated that they needed all 5 entities to work together in order to make these projects happen in a very short period of time or they would lose funding and the projects would not happen. She stated that there were some great projects such as the Howard Lake bridge overpass, Brown’s Creek drainage projects, and

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72 wetland credits through the District and explained that she felt that the entire process brought
73 nothing but ‘wins’. She stated that Columbus agreed to the sale of 5 acres of upland because the
74 DNR wanted it in the Lamprey Pass Wildlife Management Area (WMA) because they felt
75 improvements needed to be made for hunting. She stated that for Columbus, that was a
76 developable 5 acre lot which could have had a residential home built on it. She stated that the
77 WMA was 80 acres in their commercial district and that generated payment in lieu of taxes, but they
78 knew that unless the property was transferred to the District, they would not get the drainage
79 projects they wanted because the DNR did not want to give out permits. She explained that they
80 needed the cooperation of all of these entities in order for property to exchange hands in order for
81 the projects to move forward. She stated that she has been working with the District staff for years
82 in order to get well-educated on the Wetland Conservation Act and what was required and knew
83 that there was a chance that wetland bank credits may or may not be created. She stated that she
84 just knew that it would be a long path and Columbus was willing to wait for a number of years for
85 this benefit. She reiterated that that it was a cooperative effort with all parties in order to get
86 these projects done. She stated that Columbus felt that they had a loss in tax revenue and also
87 payment in lieu of taxes and in return they understood that there would be credits in the future
88 some time. She stated that the idea was that they would work something out in the future along
89 with the drainage issues. She explained that Columbus is 70% wetland or open water so they
90 understood that this would take time. She stated that she believes that in 2017 all those projects
91 were completed and credits were awarded to Rice Creek. She explained that what she was asking
92 today is for a future workshop meeting with the City of Columbus in order for both bodies to come
93 together and look at the process and find a way to make Columbus ‘whole’ since they feel as though
94 they have had a loss and come up with a plan.

95
96 Manager Wagamon stated that his understanding was that the City of Columbus had said ‘no’ at the
97 end of the process because the Steinke property had not been worked out. He explained that he
98 had gotten this information from former District President, Pat Preiner, who told him that it was at
99 the District’s behest that they called the City and wanted to negotiate one last time.

100
101 Ms. Mursko stated that there were several meetings as to how things would move forward and
102 ultimately the leadership in Columbus indicated that they would cooperate with the DNR. She
103 explained that they do have an acquisition agreement with the DNR because there are things like
104 pristine wetlands in the city that are of benefit to them and had worked in partnership with the DNR
105 for a number of years. She noted that in this particular case, it was outside the acquisition plan,
106 so leadership did have to think long and hard about whether or not they should sell a property that
107 was zoned for residential or whether they would allow the sale to the WMA. She explained that
108 ultimately, they agreed because they were working in cooperation with all the entities and they
109 really wanted to see all of the projects move forward because it would bring benefits to the entire
110 area.

111

112 Manager Wagamon stated that to him what is important is what the District president and the
113 Administrator, at the time, represented. He stated that his understanding was that they
114 represented to Columbus that they would get in a room and discuss this at a future date and he
115 does not think that ever happened.

116
117 Ms. Mursko stated that there was a meeting that included former Administrator Belfiori that
118 recognizes that the Columbus had come to the District and noted that was logged in the material
119 they had submitted. She stated that from the city’s perspective, they were always moving forward,
120 but does not think it was ever articulated and the details hammered out. She stated that she
121 wished those details had been hammered out at the time but explained that she would like to take
122 a few steps back and discuss this at the workshop so it can be articulated and agreed upon by all
123 parties moving forward.

124
125 President Bradley stated that Columbus’ lawyer had written a letter that has a bullet point that
126 states, “in any case the city would like to submit a specific project in the future for use of up to 3
127 credits from Brown’s Preserve for development of drainage project consistent with WCA and the
128 goals of Rice Creek and the city.” He explained that he applauds that concept but noted that the
129 District has 27 cities. He stated that this Board met and by consensus, concurred that they did not
130 have a basis based on 2009 and nothing that was said today has changed that. He noted that in
131 the District’s letter they stated that they would, in good faith, consider the number of credits
132 requested, the number of credits available, the existing known and anticipated needs of the District
133 for credits, when the city is offering to pay market or other value for the credits, and the purpose
134 for which the credits would be used. He stated that he believed Ms. Mursko has already had her
135 ‘workshop’ meeting and stated that he would not put forth a proposal where the District would
136 essentially be negotiating against themselves. He stated that what the Board wants is included in
137 their letter and when Columbus brings that to the District, they will hold a workshop to evaluate
138 that request based on this criteria.

139
140 Manager Waller stated that he had spoken with Ms. Mursko over the phone last night and explained
141 that he had told her that he wanted to have this discussion during a public meeting so there was not
142 any confusion. He stated that he has served on the District Board for 17 years and none of his
143 colleagues were there at the time of this situation. He stated that Ms. Mursko referenced ‘all
144 parties’ and asked if that included Forest Lake as well. He stated that Forest Lake was also an
145 essential part of this agreement. He stated that he would be voting in favor of the letter from the
146 Board that was included in the packet, and noted that he felt the letter could be construed as ‘too
147 nice’. He stated that the contention that Ms. Mursko has made that Columbus was essential to
148 making the repair of JD-4 which he feels is false because they could have gone through the process
149 of condemnation on the Washington County side, which would have taken many years. He
150 pointed out that Forest Lake has 4 branches of JD-4 and are the biggest taxpayer in that sub-
151 watershed district and at the time, they were working on Branch 1 area and 15 and those that lived
152 in Branch 1 received two special assessments, which was unusual. He stated that he believes they

153 paid more and so they have a priority to any extra credits that may be there. He stated that
154 Columbus has received about 18 credits, so far, and have not been neglected while Forest Lake had
155 received no credits. He referenced the Tessier farm property where the District replaced every
156 driveway culvert with ad valorem dollars, which he voted in favor of. He explained that he had not
157 voted for the second tax for Forest Lake. He stated that he did not think the turkey farm would
158 have come about without the credits that were created. He noted that the District provided
159 property in the northeast corner of the Brown's Preserve for Great Rivers Energy to develop a
160 substation there for future energy needs for the Columbus Industrial Park and explained that he felt
161 this helped replace the 5 acres of taxable land. He stated that the District could have placed that
162 ditch on the east side of Elmcrest but condemnation time would have consumed many years. He
163 noted that Columbus has land use authority, which means that they would make a rule within their
164 zoning that any wetland developer that is going to make more pristine, enhanced wetlands could
165 make a donation to the system, similar to what is done with the park systems. He stated that
166 Columbus would also develop a wetland bank themselves and noted that was being done in both
167 Lino Lakes and Hugo. He noted that when referencing 'all parties' he feels as though Ms. Mursko
168 has neglected to include Forest Lake. He explained that following the last workshop discussion he
169 spoke with Patrick Casey, City Administrator for Forest Lake who knew nothing about any of this.
170 Manager Waller stated that he feels that Forest Lake, not Columbus, has been neglected and
171 reiterated that he felt the 5 acres that Ms. Mursko said was lost was replaced with land for the new
172 substation.

173
174 Ms. Mursko stated that when she mentioned 'all parties' earlier she meant all the parties of the
175 Memorandum of Understanding (MOU) and when she requested a future workshop, her intent was
176 the District Board, the City of Columbus, and the Rice Creek staff. She stated that she feels that
177 the MOU, when they were negotiating in that room, was a global effort and believed everyone laid
178 everything on the table of what they felt was important to them. She stated that she knows Forest
179 Lake had drainage issues at the time and wanted a bridge project done and also needed additional
180 land in order to do the project. She stated that the DNR had to sell them land in order for them to
181 do that and in order for that to happen, the Steinke in Columbus had to be acquired. She explained
182 that it was a 'deal breaker' for the DNR if that property was not sold so when she talks about
183 Columbus being a real partner, it was to allow that sale to take place. She reiterated that it took
184 everyone to do something in order to get to the end which was to have major projects completed.
185 She stated that she agreed with the assessment shared by Manager Waller and noted that water
186 has no boundaries and understands that Columbus residents were assessed in this project and there
187 were also others that Columbus was assessed on and explained she understood the benefit. She
188 stated that the idea was time because everyone wanted these projects to be done in a timely fashion
189 and explained that his MOU was done in a relatively quick timeline and they were able to get
190 projects done which is why they went this route rather than with a JPA. She stated that Manager
191 Waller is correct that without the wetland credits the Thurnbeck Farms project would not have
192 happened. She stated that she understands that the Board appears to believe that Columbus has
193 been made whole, but from their own leadership, they feel that Columbus has had a true loss which

194 she feels is the crux of the workshop discussion so the Board can understand the loss. She
195 explained that if the Board, following this understanding, still feels the same then she feels that the
196 Columbus leadership could say that they tried their best to show what they felt at the time was a
197 significant trade and a loss. She explained that she feels holding a workshop discussion on a face
198 to face basis would be prudent because this is specific to Columbus and their request. She stated
199 that would acknowledge their request that it be project based which she understands. She
200 explained that they have not yet had a project come in which is why they have not been before the
201 Board but asked that this process and procedure be reflected in the minutes, so in the future, if a
202 project comes in, they know what the criteria is.

203
204 District Administrator Tomczik noted that the Board had a very good discussion at their July 10, 2023
205 meeting and considered all the information available, to date, and developed a position which
206 resulted in the draft letter being presented today. He stated that there was a second letter
207 received this morning that has been shared with Smith Partners who have reviewed it and were able
208 to respond. He stated that the letter reiterates details of the previous letters and does not have
209 anything new specific to the issue at hand. He noted that it also did not contradict anything that
210 was presented to the Board or their discussion. He stated that he spoke with Ms. Mursko recently
211 and had a good discussion and appreciates the thoughts she has shared on process and procedure
212 and explained that he had reiterated to her at the time that this is at 'Step 1'. He referenced the
213 letter on page 27 of the packet and the language that makes it clear that the District will, in good
214 faith, evaluate any requests considering the criteria referenced in the letter. He stated that he
215 feels it would be advantageous, as the Columbus develops a project, to come with that criteria in
216 mind.

217
218 President Bradley noted that the wording is that the Board will consider 'at least' the following
219 criteria.

220
221 District Administrator Tomczik referred to the technical evaluation panel and noted that he did not
222 necessarily see a need for them to be at the table but is an entity that has a strong voice and appeal
223 rights, so as projects develop they would be an important partner in understanding where they
224 stand on the administration of the WCA. He explained that he would say that the statement
225 included in the letter was not a statement of acceptance or approval but a statement of process and
226 describes how things can get considered.

227
228 President Bradley stated that the District has 27 or 28 cities all of whom would probably like the
229 opportunity to bring a project to the Board in order to use credits. He stated that there is an
230 existing obligation, which in his opinion is unfortunate, in Blaine, which could use up all the credits
231 they have available. He stated that the city is also facing issues with Jodrell Street and if fixing that
232 required use of wetland credits, that may be something the District may want to partner in. He
233 explained that when cities bring a project to the District, they will consider it in good faith.

234

235 Manager Wagamon stated that he feels shorted and feels that the Board should have spoken with
 236 former President Preiner about this because she helped negotiate all of this and nobody has talked
 237 to her. He explained that she was in the room and knows all the ‘stuff’ that isn’t included in the
 238 packet that was said and talked about. He stated that he had personally spoken with her but he
 239 did not think anyone else on the Board had and feels the Board should have had the chance to at
 240 least listen to the person who helped negotiate for the District. He stated that he feels it would
 241 have been a simple thing to do and the fact that they didn’t feels almost negligent.

242
 243 President Bradley noted that he felt that, in his opinion, if former President Preiner felt she had
 244 something to share, she would have shared it. He noted that more importantly, by consensus, the
 245 Board concluded that whatever was done in 2009 had become moot and that they have moved
 246 forward and over 14 years have given 18 credits to this city and are now faced with a request from
 247 a city that is no different than any other city. He explained that this means that they need to get
 248 in line with the other 27 cities and bring a proposal to the Board that outlines why they are better
 249 than any other proposal they will see. He stated that what former President Preiner may or may
 250 not have promised back in 2009, to him, is irrelevant.

251
 252 ***Motion by Manager Bradley, seconded by Manager Weinandt, to authorize the Board President,***
 253 ***to sign the letter of response, as presented.***

254
 255 Manager Waller stated that he felt this letter was too nice. He stated that the last two
 256 paragraphs almost make it sound as though this is exclusive to the City of Columbus and does not
 257 explain the other cities opportunities. He stated that he missed one point that he had wanted to
 258 make in his earlier comments and noted that if this is a cost factor for Columbus, he would suggest
 259 they start a conversation with the District about the District changing the rules which would be
 260 another option outside of a wetland bank.

261
 262 ***Motion carried 3-1 (Manager Wagamon opposed).***

263
 264 Manager Wagamon suggested a language change to the letter to say “the consensus of the Board”
 265 rather than “the Board”. President Bradley stated that when the Board communicates to outside
 266 entities, it does so as a unified voice and that it would be inappropriate to modify the language to
 267 indicate a subset of the Board.

268
 269 Manager Weinandt stated that as someone who has spent a professional lifetime doing
 270 collaborative projects with multiple agencies, she wanted to commend Ms. Mursko for being able
 271 to gather this many organizations together in a short amount of time in order to make these
 272 projects happen.

273
 274 **2. City of Roseville – Ramsey County Ditch 4 (RCD 4) Basic Water Management Project**
 275 **Reimbursement #7**

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Motion by Manager Weinandt, seconded by Manager Wagamon, to approve the RCD 4 WMD reimbursement to the City of Roseville and directs staff to issue a payment in the amount of \$45,040.94. Motion carried 4-0.

3. Check Register Dated July 26, 2023, in the Amount of \$204,018.82 and July Interim Financial Statements Prepared by Redpath and Company

Manager Weinandt noted that she had reviewed the July 26, 2023 check register, and the July 31, 2023 Interim Financial Statements, as prepared by Redpath and Company, and the July 20, 2023 PMA Investment Statement/Register, and recommended approval of the check register.

Motion by Manager Weinandt, seconded by Manager Bradley, to approve the check register dated July 26, 2023, in the amount of \$204,018.82 and the July Interim Financial Statements. Motion carried 4-0.

ITEMS FOR DISCUSSION AND INFORMATION

1. Minnesota Pollution Control Agency Resiliency Grant Presentation

Communications and Outreach Specialist Sommerfeld gave an overview of the Climate Change and Flood Plain Resiliency project that was done with a grant from the MPCA. She stated that one of the larger components the District completed was the Community Resilience Workshops which had 55 participants. She explained that through the workshops they identified top hazards, vulnerabilities, strengths, and prioritized community input and potential actions. She highlighted some of the tools and information that came out of the workshops.

Bret Zimmerman, HEI Engineer continued the presentation that outlined the main purposes of the grant including: using the District-wide model to assess future conditions climate change hydrology; identifying vulnerable locations and communities related to higher rainfall total and intensities; and conceptualize potential capital improvement projects to reduce the risk to increasingly vulnerable areas. He explained that they used the District-wide model and noted that this study really focused on the 100 year event or high intensity rainfalls and clarified that this was not a climatology study. He stated that they found that there is about 19% increase in rainfall depth due to climate change hydrology which equates to 1.4 inches of run-off across the District. He stated that they also took a look at lake levels within the District and found that for some the increase was pretty minimal, but others are impacted more by future climactic changes, such as Long Lake which showed a 1.3 foot increase. He stated that the District can be proactive rather than reactive by taking a look at potential capital improvement projects throughout the District that can address this before certain areas that may be 'hot spots' are developed. He gave a brief overview of some examples of primary and secondary projects/locations related to CIP screening. He noted that the locations with the greatest risk related to future climate hydrology were JD-2, Middle Rice Creek, and Long Lake. He explained that the greatest opportunity for reducing negative

316 impacts of climate change risk are in Sites 2 (Jones Lake area), 3 (South Hansen Park area), and 7
317 (JD-2 – Main Trunk).

318
319 Manager Waller asked if by ‘JD-2’ he was referring to Ramsey County or Washington County.

320
321 District Engineer Otterness clarified that they were referring to Washington County JD-2.

322
323 District Engineer Zimmerman noted that in the legislative session the MPCA was budgeted \$50
324 million for 2023 and another \$50 million for 2024 to focus on climate resiliency. He stated that
325 they believe there will be a grant application this fall for implementation, and he feels having this
326 climate report completed will put the District ahead of others that have not completed a similar
327 plan.

328
329 President Bradley asked how the conclusions impact the District’s current plans for things like
330 Ramsey County Ditch 2, 3, and 5 projects.

331
332 District Administrator Tomczik explained that it presents greater opportunities for the District to be
333 successful in having the necessary funding to accomplish what they have looked at historically for
334 RCD 2, 3, and 5. He noted that the State seems to be guiding, in their current grant applications,
335 that the money it awards to have the considerations of environmental justice and climate change.

336
337 President Bradley asked if the District needed to spend time studying efforts towards pursuing grant
338 money versus bonding money.

339
340 District Administrator Tomczik stated that he did not think it needed more study, but believed that
341 by aggregating the District’s position to clarify and identify what they had previously presented
342 about the impacts of climate change perspective was also saying that somehow this work must get
343 done and here are those opportunities with bonding and/or grants.

344
345 President Bradley stated that he did not think the District would be able to get bonding help if they
346 were also asking for grant money.

347
348 District Engineer Otterness stated that he thinks there has been a fairly successful strategy for
349 watershed districts to go after multiple funding sources and shared examples from other districts
350 that have utilized 3 or 4 different funding sources for projects.

351
352 Manager Waller stated that it appears much of this work will be in Ramsey County where it is heavily
353 urbanized and asked if they had considered how this future water storage would integrate with the
354 reuse programs the District has been sponsoring.

355

356 District Engineer Zimmerman stated that for this grant the MPCA wanted to see concept designs as
357 part of the outcome. He noted that there are other areas besides RCD 2, 3, and 5 where projects
358 could be implemented and noted that having this study will make it easier to target those other
359 areas within the District because they have already looked at the climate change hydrology through
360 the study.

361
362 Manager Waller asked if the District had made any contact with the cities that are involved in these
363 other areas that have been identified.

364
365 District Administrator Tomczik noted that all the municipalities were engaged early on for
366 participation in the study. He explained that the District had not specifically brought forth the
367 report yet because they wanted to present it to the Board before it was made available.

368
369 Manager Waller suggested that it may be a good subject for the city-county partners meeting.

370
371 District Administrator Tomczik noted that an abstract of this project was accepted by Minnesota
372 Waters and will also be presented at that conference.

373
374 The Board and staff talked about some of the results presented in the presentation, the workshop
375 participants, volumes, possible benefits even if they are only incremental, funding for the grant,
376 environmental justice in relation to climate, and about the possibility there may be existing
377 opportunities to store more water if maintenance is conducted on existing ponds.

378
379 District Administrator Tomczik cautioned that maintenance and cleaning of a stormwater pond does
380 not necessarily improve or create a reduction on flood elevation.

381
382 District Engineer Otterness agreed and explained that it would restore volume for water quality
383 treatment, but would not restore volume for flood management. He stated that there may be a way
384 to expand or improve a pond at the same time they are conducting maintenance activities.

385
386 District Administrator Tomczik reminded the Board that this was what the project at Hansen Park
387 had done, because they cleaned out the water quality side, adjusted the outlet, which means more
388 storage on the landscape and improved conditions for flood elevations as well.

389
390 President Bradley asked for insight into the environmental justice criteria.

391
392 District Administrator Tomczik suggested that HEI send over the environmental justice map to the
393 District so they can distribute that information to the Board.

394

395 District Engineer Zimmerman explained that these areas are based on census data and does not
396 necessarily follow city boundaries and noted that the results were kind of spotty throughout the
397 District.
398

399 District Engineer Otterness noted that one area that was identified as an environmental justice area
400 is the area on the downstream end of RCD-2 that has been historically susceptible to flooding and
401 would directly benefit from the conceptualized storage projects on RCD 2 . He noted that he thinks
402 this information may be able to help with better scoring for future grant opportunities.
403

404 Communications and Outreach Specialist Sommerfeld noted that there was a core team for this
405 project and noted that a list of those individuals were included in the report. She stated that the
406 District can call on those individuals to bring this report and information to their various cities and
407 noted that there were 2 CAC members who attended the workshops.
408

409 District Engineer Zimmerman reminded the Board that this would be the first time this grant will be
410 available. He stated that he believes there will be about \$35 million available, but cautioned that
411 they did not yet know what will qualify and what will be eligible for those funds.
412

413 **2. MN Watersheds Resolution Discussion**

414 District Administrator Tomczik stated that staff was looking for clarity to ensure that staff's work
415 aligned with the Board's intent from last meeting's discussion. He noted that Resolution 2021-03
416 related to flexibility in the Open Meeting law was still in place. He stated that Manager Wagamon
417 had raised a question about the past DNR drainage resolution and Manager Weinandt had a
418 question about metro watersheds bonding effort in that situation. He explained that he
419 understood that the metro watershed bonding to 'fall away', but the District should proceed with
420 potential funding options, under independent effort, by engaging with elected officials and partners,
421 as needed. He referenced an issue raised by Manager Waller related to 103D.621 which he reviewed
422 more closely following the meeting. He noted that he had checked with the District's legal counsel
423 and the statute has been around for quite some time and is akin to what the District has understood
424 and is nothing new. He stated that he also had a conversation with District Engineer Otterness
425 about seeing where the District may encounter this need and, at his time, there is no definitive
426 location where they would have that condition and further that even if a public drainage
427 improvement was exempt under WCA, the project remains potentially requires permitting under
428 federal section 404 regulations.
429

430 ***After Board discussion, there was consensus that they were satisfied with the Open Meeting Law
431 and to not take action at this time on trying to amend State law with regards to WCA exemptions.***
432

433 Communications and Outreach Specialist Sommerfeld stated that she had reached out to Jan Voit
434 from MN Watersheds and asked if there were any other watersheds that were interested in the
435 sunseting resolution 2018-08 Reinforce Existing Rights to Maintain/Repair 103E Drainage Systems.

436 She stated that the Wild Rice Watershed District reached out and asked what the District wanted to
437 do and what the District would want from them, if they were interested in supporting or partnering
438 with the District on the resolution.
439

440 District Administrator Tomczik stated that staff is happy to work with the Wild Rice Watershed
441 District at a staff level, amend the past resolution that will sunset, freshen it up to the current status
442 of matters, and work to have alignment with them.
443

444 President Bradley stated that he felt it was a way of restating that this is an issue that is important
445 to us that has not yet been solved.
446

447 ***There was consensus of the Board that this was something to pursue.***
448

449 District Administrator Tomczik thanked the Board for their input and explained that staff will bring
450 back one resolution for the Board and will work with partners throughout the State to make
451 something as unified as possible.
452

453 **3. Staff Reports**

454 Manager Weinandt noted that she appreciated the staff reports that show the work they are getting
455 done. She explained that she also feels that they show that the District has set policies and staff
456 takes action based on those policies.
457

458 **4. August Calendar**

459 District Administrator Tomczik noted the CAC Summer Tour.
460

461 President Bradley stated that he would be unable to attend.
462

463 **5. Administrator Updates**

464 District Administrator Tomczik stated that in the previous discussion recognizing both 404 and WCA
465 jurisdiction brings to mind the similarity to the Metro Shooting settlement and recent Board
466 discussions. He stated that he believes that the District and other parties of the settlement knew
467 it's the presence of both regulations and their limits and, in his opinion, would have been just as
468 apparent in 2005 at the time of the settlement as they are today. He stated that the information
469 District Attorney Holtman brought to the workshop is factual and is really the essence of the
470 settlement. He explained that under this issue, the District championed an effort for 404 to come
471 into alignment with what the CWPMP is trying to succeed with here, through the Special Area
472 Management Plan (SAMP), but that did not happen. He explained that the District cannot control
473 the decisions the parties of 404 jurisdiction make and how it intends to regulate. He stated that
474 there is a distinction between what the District's obligation is and what it is not, this was clearly laid
475 out at the time of the settlement and both parties would have been acutely aware of those
476 distinctions.

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President Bradley asked why District Administrator Tomczik was raising this issue to the Board.

District Administrator Tomczik explained that he had raised it because he felt as though there was an essence of the Board believing it may have an obligation in the settlement that was not actually present. He stated that Rice Creek can only control the things under its jurisdiction and not what the Federal government does. He explained that was also a political side to the issue and the sense of community and how the District goes about its operations, but that is not apparent or placed within the settlement. He stated that the settlement, as a factual document, states the District will not amend its rules to undermine the CWPMP.

President Bradley suggested that what he believed District Administrator Tomczik was saying was that the settlement did not enhance the District's obligations beyond what they were with relation to State and Federal law.

District Administrator Tomczik confirmed that the District can control Rice Creek and its CWPMP, but cannot control the Federal government. He stated that that being said, they will do their best to present the CWPMP benefits.

President Bradley stated that he feels the big question is what will the Federal government do after the U.S. Supreme Court decision. He stated that he suspects that until someone approaches them with a proposal, he does not think they will want to tell them.

District Administrator Tomczik agreed and noted that the District had repeatedly laid this out to the landowner that they need a project to really move this forward.

President Bradley asked if there was a need for the District to have more refinement on the wetland bank commitments or if they should wait until someone asks for something.

District Administrator Tomczik suggested that it should wait because he did not think there were any new/additional information that would further refine the numbers.

District Engineer Otterness noted that the Board had previously approved a task order for a repair report on ACD 53-62 branches 5 and 6 which is in the area where the settlement agreement was. He stated that area was one of the ones that they had projected out into the future that could have a wetland mitigation need. He stated that when they complete that repair report, that would be a good time to take what they find and plug it back into the spreadsheet.

District Administrator Tomczik updated the Board on ACD 10-22-32 where they had contemplated the use of wetland credit if the DNR would see the need for mitigation and would find that the credit would be acceptable. He explained that they met with the City of Columbus to collaborate on this

518 effort and believes they were supportive of moving forward and will bring a response to the Board
519 on alternative 4 and its potential to move forward. He stated that there has been an application
520 on the Belair site utilized in Long Lake sediment basin maintenance.
521

522 **6. Managers Update**

523 Manager Waller stated that he had expressed some interest in comments that the District
524 Administrator would give to BWSR and noted that they had been included in the packet materials.
525 He reviewed some of the questions and answers and stated that he thought District Administrator
526 Tomczik had done a good job in trying to get BWSR to think about their strategic plan.
527

528 Manager Wagamon informed the Board of a documentary he recently watched on Europe regarding
529 their ditches and they appear to be light years ahead of the United States in how they are
530 approaching fixing all of that. He noted that he feels that if the Board would have started this
531 process by doing what Columbus had asked for, of getting in a room and talking about it, it would
532 have cost the District less money than if the District could have fulfilled the obligation that was made
533 by the former president and former District Administrator, which was just getting into a room and
534 discussing it.
535

536 District Administrator Tomczik noted that the letter from Columbus had stated that they ‘weren’t
537 notified of the meeting’ but he had checked and the District had sent an e-mail to the city
538 administrator, so they were notified.
539

540 President Bradley explained that the problem, in a nutshell, was that the city did not give the Board
541 anything to actually discuss. He stated that they came with a claim that the District owed them
542 ‘something’, which was undefined, from 2009 and the District came back and told that they were
543 given more than they could have ever asked for. He explained that this was the basis for the
544 District saying that they would not negotiate against themselves because there is nothing there and
545 the District owes them nothing. He reiterated that they can bring forth a proposal and the District
546 can take a look and decide whether or not they can do it which is where we are in this process.
547

548 Manager Waller stated that the crux of the presentation from Columbus today was that they lost 5
549 acres of tax land and his rebuttal was that they gained acreage from the DNR property when it was
550 sold to Great Rivers Energy and spent 3 credits to develop Thurnbeck’s property which increased
551 the value of tax land. He explained that he did not feel the tax issue was a valid argument.
552

553 **ADJOURNMENT**

554 ***Motion by Manager Bradley, seconded by Manager Waller, to adjourn the meeting at 11:15 a.m.***
555 ***Motion carried 4-0.***
556

CONSENT AGENDA

The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

Table of Contents-Permit Applications Requiring Board Action

No.	Applicant	Location	Plan Type	Recommendation
23-044	City of Blaine	Blaine	Street & Utility Plan Public/Private Drainage System Wetland Alteration Floodplain Alteration	CAPROC 8 items

It was moved by Manager _____ and seconded by Manager _____, to approve the consent agenda as outlined in the above Table of Contents in accordance with RCWD District Engineer’s Findings and Recommendations, dated August 2, 2023.

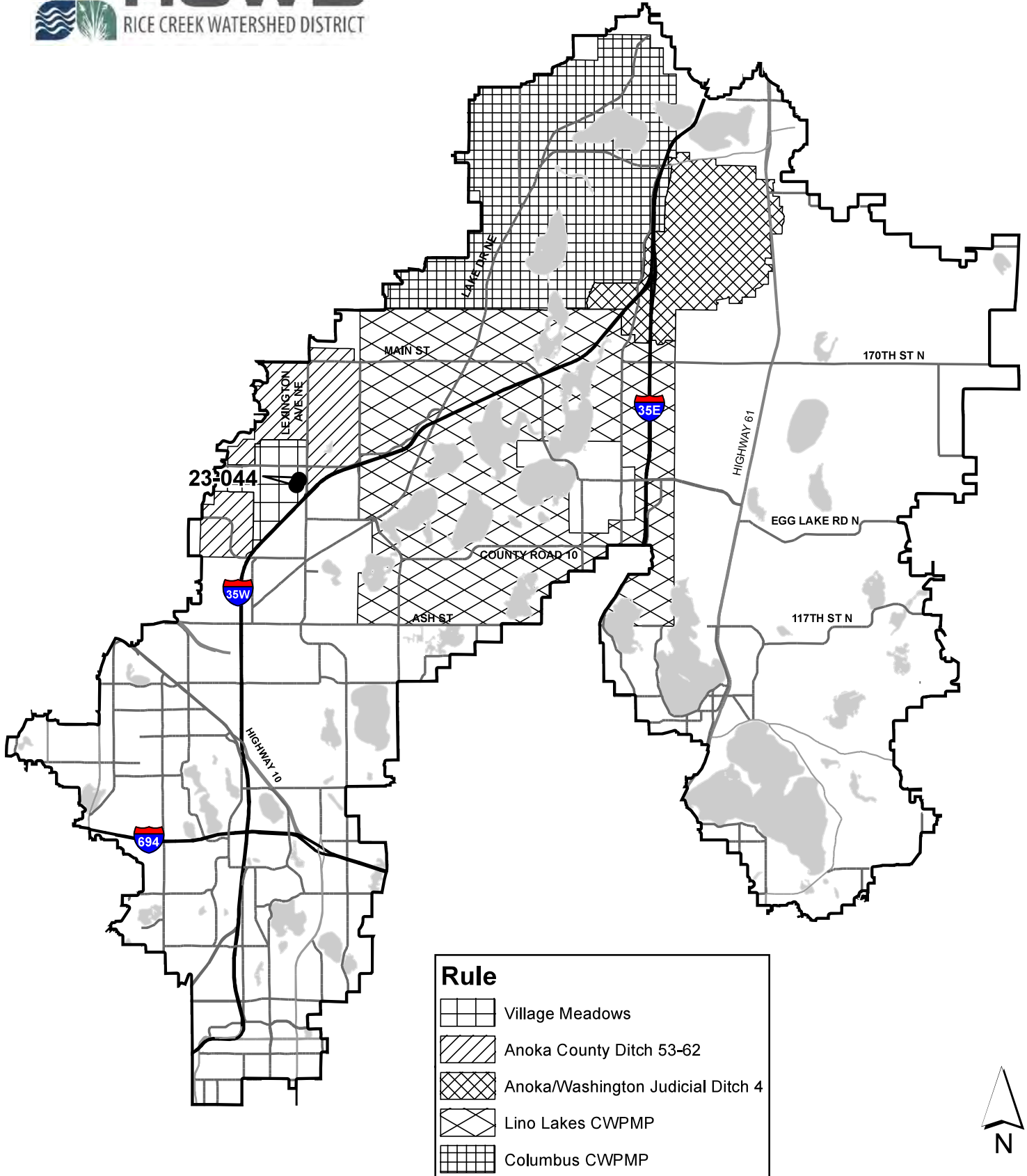
**RICE CREEK WATERSHED DISTRICT
CONSENT AGENDA**

August 9, 2023

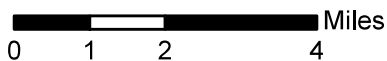
It was moved by _____ and seconded by _____ to Approve, Conditionally Approve Pending Receipt Of Changes, or Deny, the Permit Application noted in the following Table of Contents, in accordance with the District Engineer’s Findings and Recommendations, as contained in the Engineer’s Findings and Recommendations, as contained in the Engineer’s Reports dated August 2, 2023.

TABLE OF CONTENTS

Permit Application Number	Applicant	Page	Recommendation
	Permit Location Map	20	
23-044	City of Blaine	21	CAPROC



**Permit Reviews
8/9/2023 Agenda**





WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers.

Permit Application Number:

23-044

Permit Application Name:

Austin Street Extension

Applicant/Landowner:

City of Blaine
Attn: Dan Schluender
10801 Town Square Drive
Blaine, MN 55449
Ph: (763) 785-6158
dschluender@blainemn.gov

Permit Contact:

Kjolhaug Environmental Services Company
Attn: Melissa Barrett
2500 Shadywood Road STE 130
Orono, Minnesota 55331
Ph: 9523883752
melissa@kjolhaugenv.com

Carlson McCain Inc.
Attn: Brian Krystofiak
3890 Pheasant Ridge Drive, STE 100
Blaine, MN 55449
Ph: 763-489-7905
Fx: 763-489-7959
bkrystofiak@carlsonmccain.com

Carlson McCain Inc.
Attn: Kyle Ogren
Ph: 763-48-97946
kogren@carlsonmccain.com

City of Blaine
Attn: Brent Larson
Ph: 763-785-6188
blarson@blainemn.gov

Project Name: Austin Street Extension

Purpose: S&UC – Street & Utility Plan, PDS – Public/Private Drainage System, WA – Wetland Alteration, FA – Floodplain Alteration; Construction of a new public linear roadway to connect Pheasant Ridge Drive NE to the existing stub at the Lexington Meadows development

Site Size: 618 L.F. / 2.24 ± acres of disturbed area; existing and proposed impervious areas are 0.166 ± acres and 0.678 ± acres, respectively

Location: Austin Street from Pheasant Ridge Drive NE and connecting north to the Lexington Meadows development, Blaine

T-R-S: NE ¼, Section 23, T31N, R23W

District Rule: D, E, F, I

Recommendation: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items.

Conditions to be Met Before Permit Issuance:

Rule D – Erosion and Sediment Control

1. Submit the following information per Rule D.4:
 - (c) Name, address and phone number of party responsible for maintenance of all erosion and sediment control measures.
 - (h) Provide documentation that an NPDES Permit has been applied for and submitted to the Minnesota Pollution Control Agency (MPCA).

Rule F – Wetland Alteration

2. Applicant must provide shape file of wetland boundaries; a condition of approval of the type and boundary delineation.
3. Applicant must provide a “Transaction Form for Withdrawal of Wetland Credits from the Minnesota Wetland Bank”, which is signed by the bank user and the bank seller
4. The applicant must provide proof of BWSR debiting wetland bank for the correct amount and type of wetland credit.

Rule I – Drainage Systems

5. A public permittee may meet its perpetual maintenance obligation by executing a programmatic or project-specific maintenance agreement with the District.
6. Applicant must submit a copy of the final dewatering plan (if applicable).

Administrative

7. Submit the permit application with the signature of the successful bidder to the District.
8. Email one final, signed full-sized pdf of the construction plan set. Include a list of changes that have been made since approval by the RCWD Board.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

1. Provide an as-built survey and computation of the floodplain fill and mitigation storage areas and volume for verification of compliance with the approved plans.
2. Provide an as-built survey of wetland boundaries, quantifying the wetland impact area for verification of compliance with the approved plans
3. Provide an as-built survey of all pipe sizes and invert elevations of culverts on Anoka County Ditch 53-62 to verify location and elevation with the approved plans.

Exhibits:

1. Plan set containing 15 sheets dated 6-9-2023 and received 6-20-2023.
2. Permit application, dated 6-26-2023 and received 6-28-2023.
3. Stormwater Calculations, dated 6-9-2023 and received 6-20-2023, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions, NURP pond design.

4. Floodplain exhibit, 6-9-2023 and received 6-20-2023.
5. TEP comments dated 07-17-2023.
6. Wetland Permit Application, dated and received 06-20-2023.
7. Review files 15-084R, 23-117R.

Findings:

1. Description – The public linear project proposes a 618 lineal foot extension of Austin Street from the Lexington Meadows development to Pheasant Ridge Drive in Blaine. The extension will include a 30-foot wide road and 6-foot sidewalks on each side of the road, which will increase the impervious area by 0.512± acres, reconstruct an additional 0.166± acres and disturb 2.24± acres overall. The extension includes a new crossing of ACD-53-62 Main Truck. The project drains to ACD 53-62 and then to Golden Lake, the Resource of Concern. The applicant is a public entity and therefore is not charged an application fee.
2. Stormwater – The proposed work is a public linear project that will create and/or reconstruct less than 1 acre of impervious surface. Therefore, Rule C is not triggered and there are no stormwater requirements.

The project is proposing a NURP pond with 0.71± acre-feet of dead storage, which is sized for the contributing drainage area of the road, and the future expansion of the adjacent lot up to 2.433 acres of assumed future impervious area. The proposed development must follow sequencing, as-built and maintenance requirements and any other rules in place at the time of the application.

3. Wetlands – Wetlands were originally delineated under Review File #15-084R ahead of the City of Blaine's utility (sanitary, watermain) installation project for the right-of-way of Austin Street from Pheasant Ridge Drive NE north to 114th Ave NE. This approval is past its five-year approval date and is expired. A new boundary and type application was included in the wetland permit application submitted on 06-20-2023. The wetland boundaries were reviewed and confirmed on site by RCWD and the TEP on 07-07-2023. A boundary and type approval will be included in the notice of decision following Board action on the overall permit application.

The project area is located within the Village Meadows CWPMP but per Rule F.5(e), public linear projects not part of an industrial, commercial, industrial or residential development are not subject to Section 6 of Rule F.

A wetland permit application including a boundary/type, incidental, exemption, and replacement plan approval requests was submitted to the District on 06-20-2023. The application was noticed on 06-22-2023 and the comment period closed on 07-14-2023. The application argued that the boundary of Wetland 1 had increased in size since the #15-084R approval due to site manipulation from the utility installation under RCWD Permit #15-087. The applicant requested that a portion of Wetland 1 be considered incidental. If the incidental request were approved, the applicant requested that the proposed permanent wetland impacts would qualify for a de minimis exemption. If the incidental request were not approved, the permanent wetland impacts would exceed the de minimis exemption amount and would need to be replaced via mitigation. RCWD reviewed the application with the TEP on 07-07-2023. Due to past survey information, RCWD was able to justify that portions of Wetland 1 were incidentally created. However, the TEP did not find that the proposed wetland impacts would qualify for an exemption. The existing stub of Austin Street south of 108th Ave was constructed as part of the Lexington Meadows development (RCWD #18-015). This project also included a wetland replacement plan application for permanent wetland impacts. As part of the replacement plan application review, the TEP commented that the future extension of Austin Street south to Pheasant Ridge Drive NE should be included in the impact sequencing. The TEP finds that the construction of this portion of Austin Street is connected to the 2018 work and needs replacement. Comments were

provided back to the applicant on 07-17-2023. The applicant provided an updated wetland permit application on 08-04-2023. The proposed project will include 2,397 ft² of permanent wetland impact.

The applicant has provided an alternatives analysis, including discussion of impact avoidance, minimization and mitigation. Applicant has provided a no-build alternative and no-impact alternative, both of which would result in the roadway not being constructed. The applicant has reasonably avoided and minimized wetland impacts to the extent possible. The applicant has addressed all comments and the TEP concurs that WCA impact sequencing is met.

Impact/Mitigation Table

Wetland Name (Location)	Impact Amount	Replacement Ratio	Required
Wetland 1	1,721 ft ²	N/A; incidental	
Wetland 2	2,397 ft ²	2:1	4,794 ft ²
Total	2,397 ft ²		4,794 ft ² (0.1101 acres)

Wetland replacement will occur via wetland bank account #1722, in the amount of 0.1101 acres. The wetland bank is within the same major watershed and BSA of the project site. The applicant must provide the final BWSR withdrawal transaction form and demonstrate final withdrawal from the BWSR Bank.

4. Floodplain – The regulatory floodplain elevation is 897.3 NAVD 88. The applicant is proposing 1,264 cubic yards of fill and proposing 3,215 cubic yards of mitigation in the storm water pond. The applicant has complied with the requirements of Rule E.
5. Erosion Control – Proposed erosion control methods include silt fence, rock construction entrances, inlet protection, and rip rap. The project disturbs more than 1 acre; an NPDES permit is required. The SWPPP is located on plan sheets 14-15. The information listed under the Rule D – Erosion and Sediment Control section above must be submitted. Otherwise, the project complies with RCWD Rule D requirements. The project is within 1 mile of Anoka County Ditch 53-62 which is impaired for nutrients.
6. Regional Conveyances – Rule G is not applicable.
7. Public Drainage Systems – The applicant is proposing the installation of a 12-foot span x 6-foot box rise culvert to convey Anoka County Ditch (ACD) 53-62 Main Trunk under the proposed extension. Both upstream and downstream inverts are proposed at 891.46 which matches the ACSIC of the public drainage system. The culvert has a greater cross-sectional area at the 100-year flood elevation and therefore greater capacity than the culvert under Pheasant Ridge Drive approximately 350 feet downstream. The applicant has allowed for an adequate maintenance corridor. The applicant must execute an agreement for maintenance of the culvert, but has otherwise complied with the requirements of Rule I.
8. Documenting Easements and Maintenance Obligations – Applicant must execute an agreement with the RCWD for the maintenance of the stormwater facilities and the culvert crossing of ACD 53-62.
9. Previous Permit Information – Preapplication information can be found in review file 23-117R. City of Blaine sanitary sewer, watermain, lift station and forcemain constructed under 15-087. Lexington Meadows development was permit 18-015.

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

Greg Bowles

08/02/2023

Greg Bowles, MN Reg. No 41929

K. MacDonald

08/02/2023

Katherine MacDonald, MN Reg. No 44590



Project Location -
"Austin Street Connection"

Legend



Project Location



Public Ditch - Open Channel



Private Ditch





PLEASE NOTE: The data herein are for general informational purposes only and should not be relied on for any official purpose. Property owners and other interested persons should retain a licensed surveyor or other professional for specific advice concerning their property. The Rice Creek Watershed District strictly disclaims any and all warranties on use of the data for any purpose.

Legend

- Project Location
- Austin Street Extension
- Floodplain mitigation/Pond
- Drainage Arrow



Water Quality Grant Program Cost Share Application (Molly Nelson)

No.	Applicant	Location	Project Type	Eligible Cost	Pollutant Reductions	Funding Recommendation
A23-02	Cheryl & David Blackford	Circle Pines	Shoreline Restoration	\$5,241.25	Volume: 71.5% TSS: 74% TP: 72.6%	50% cost share of \$2,620.62 not to exceed 50%; or \$7,500 whichever cost is lower
R23-06	Jerilynn Ommen	White Bear Lake	Shoreline Restoration	\$22,957.49	Volume: 63% TSS: 90% TP: 76%	50% cost-share of \$7,500 not to exceed 50% or \$7,500, whichever cost is lower

It was moved by Manager _____ and seconded by Manager _____, to approve the Water Quality Grant consent agenda as outlined in the above table, in accordance with RCWD Staff's Recommendation based on established program guidelines, dated August 3, 2023.

MEMORANDUM
Rice Creek Watershed District



Date: August 3rd, 2023
To: RCWD Board of Managers
From: Molly Nelson, Watershed Technician/ Water Resources Specialist
Subject: A23-02 Blackford Shoreline Restoration,
RCWD Water Quality Grant Program Application

Introduction

A23-02 Blackford Shoreline Restoration

- Applicant: Cheryl and David Blackford
- Location: 93 West Golden Lake Road
- Project Type: Shoreline Restoration
- Total Eligible Project Cost: \$5,241.25
- RCWD Grant Recommendation: \$2,620.62 (50%)

Background

This application proposes a shoreline restoration project that is on approximately 84 linear feet of eroding shoreline from natural wave action along the southern bay of Golden Lake in Circle Pines. The shoreline consists of sparse weeds with partial exposed soils and turf grass leading up to the shoreline. The project location scored a value of 17 on the Water Quality Grant Program Screening form. The Anoka Conservation District (ACD) created a design for the project and provided recommendations that have been included in the design. RCWD staff is comfortable with the design presented in this application. The project as proposed would stabilize the shoreline with a native plant buffer and filter runoff before it discharges to Golden Lake. The total buffer area for the project is 1,384 square feet. The estimated pollutant reductions for the proposed project are: 71.5% reduction in volume (4,448 cu-ft/yr), 74% reduction in total suspended solids (TSS) (17 pounds/year), and a 72.6% reduction in total phosphorus (TP) (0.07 pounds/ year).

The applicant obtained two bids for the project:

- Fresh Vision Landscape: \$5,241.25 (Breakdown: \$2,740.75 for materials & \$2,500.00 for installation)
- Mickman Brothers: \$14,330.28

The District will proceed with the lowest bid for the project upon approval of the application for cost-share

The District will proceed with the lowest bid for the project upon approval of the application for cost-share. The project application was discussed at the CAC meeting on August 2nd. The CAC was supportive of the project and recommended it as presented. Motion carried 8-0.

Staff Recommendation

RCWD's Citizen Advisory Committee and Staff recommend that the RCWD Board of Managers approve Water Quality Grant funds for A23-02 Blackford shoreline restoration.

MEMORANDUM
Rice Creek Watershed District



Request for Board Consensus OR Proposed Motion

Manager _____ moves to authorize the Administrator, on advice of counsel, to approve the Water Quality Grant Contract A23-02 of \$2,620.62 not to exceed 50% of eligible project costs or up to \$7,500.00, whichever amount is lower, as outlined in the consent agenda and in accordance with the RCWD Staff's recommendation and established program guidelines.

Attachments

Water Quality Grant A23-02 application items



ANOKA CONSERVATION DISTRICT
 1318 McKay Drive NE, Suite 300
 Ham Lake, MN 55304
 Phone: (763) 434-2030 Fax: (763) 434-2094
 www.AnokaSWCD.org

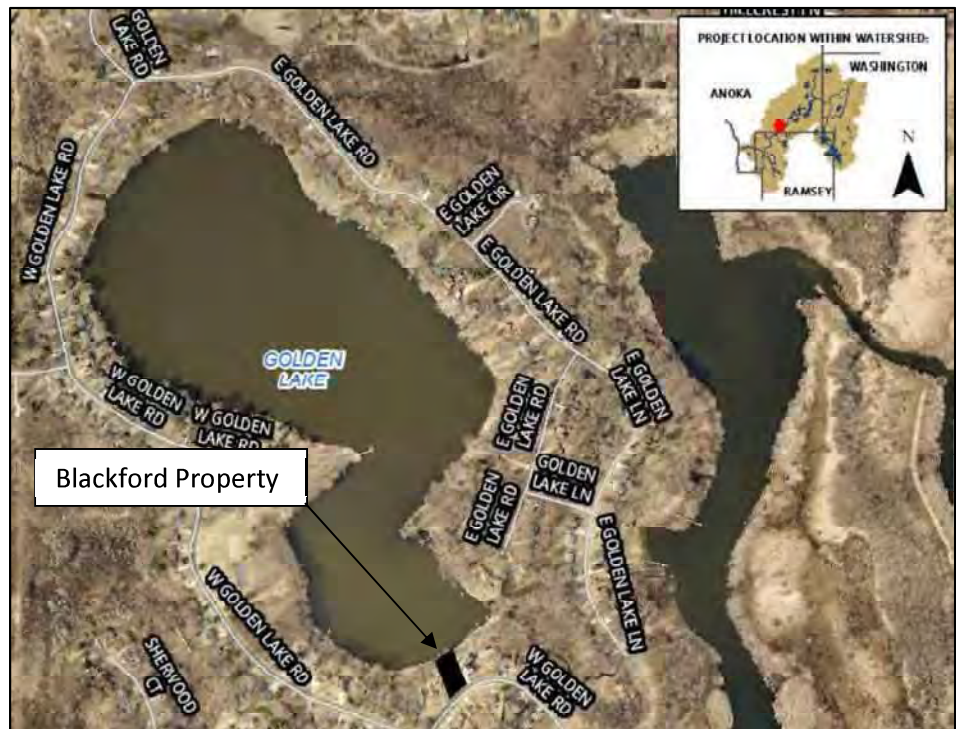
MEMORANDUM

TO: RCWD Board of Managers and Citizen Advisory Committee
FROM: Mitch Haustein, Stormwater and Shoreland Specialist
DATE: July 17, 2023
SUBJECT: Water Quality Grant Program Application – Blackford Lakeshore Restoration, Golden Lake, Circle Pines

The following summarizes the RCWD Water Quality Grant Program application to cost-share the installation of 84’ of lakeshore buffer with native vegetation at the Blackford property on Golden Lake in Circle Pines (see map to right).

PROJECT DESCRIPTION

Golden Lake is classified as a ‘deep – public access’ lake type based on RCWD’s lakes classification system and has a ‘restoration’ management classification. Motorized boats are restricted on Golden Lake. Therefore, natural wave action is the primary cause of erosion.



Because the Blackford property is located in the southern bay, maximum fetch distance is limited and therefore wave action is relatively minor. Well-established vegetation is suitable for shoreline stabilization in this area of the lake. Furthermore, establishing a buffer of native vegetation will serve to filter runoff from the sloped yard prior to reaching the lake. Associated sediment and nutrient loading to Golden Lake will be reduced.

PROJECT DESIGN

The site was reviewed to assess erosion severity and determine space available for a native plant buffer. It was determined that robust native vegetation along the shoreline will be sufficient to maintain shoreline stability. The native plant buffer was designed in conjunction with the landowner to maximize buffer width while still maintaining a modest seating area and dock access. The buffer will replace a sparsely weeded area adjacent to the lake and turf grass within the yard areas. In addition, aquatic emergent native plants are included within the lake to bolster dissipation of wave action and further naturalize the shoreline. The total area of the buffer planting encompasses 1,384 square feet.

ESTIMATED POLLUTANT REDUCTIONS

Pollutant reductions were estimated by modeling the site using WinSLAMM. The table below provides annual loading of volume in cubic feet (CF), total suspended solids (TSS) in pounds, and total phosphorus (TP) in pounds under both existing conditions and proposed buffer planting scenarios. The reductions for volume, TSS, and TP associated with the buffer are also shown.

SCENARIO	WATER QUALITY METRIC		
	VOLUME (CF/YR)	TSS (LBS/YR)	TP (LBS/YR)
EXISTING CONDITIONS LOAD	6222	23.2	0.100
PROPOSED BUFFER LOAD	1774	6.0	0.027
REDUCTION VIA BUFFER	4448	17.2	0.073
% REDUCTION VIA BUFFER	71.5%	74.0%	72.6%

ELIGIBLE EXPENSES AND REQUESTED FUNDING

The grant request outlined in this section is based on two quotes provided by Fresh Vision Landscape and Mickman Brothers. See attached quotes for details.

RCWD Water Quality Grant Program Summary

Contractor	Total Quote	Max RCWD Grant Amount (50%)	Landowner Responsibility (50%)	RCWD Grant Amount Recommended
Fresh Vision Landscape	\$5,241.25	\$2,620.62	\$2,620.63	\$2,620.62
Mickman Brothers	\$14,330.28	\$7,165.14	\$7,165.14	N/A

STAFF NOTES

The Blackfords are motivated to improve Golden Lake water quality and native habitat at their home. They are avid gardeners and are excited to establish a native plant buffer. They are targeting a 2023 installation, contingent on contractor availability.

RECOMMENDATION

Approve Water Quality Grant Program application for cost-share up to \$2,620.62.

SITE PICTURES



Figure 1: Current bank condition. Sparse weeds along the shoreline transition to a turf grass yard. Picture taken facing southwest.

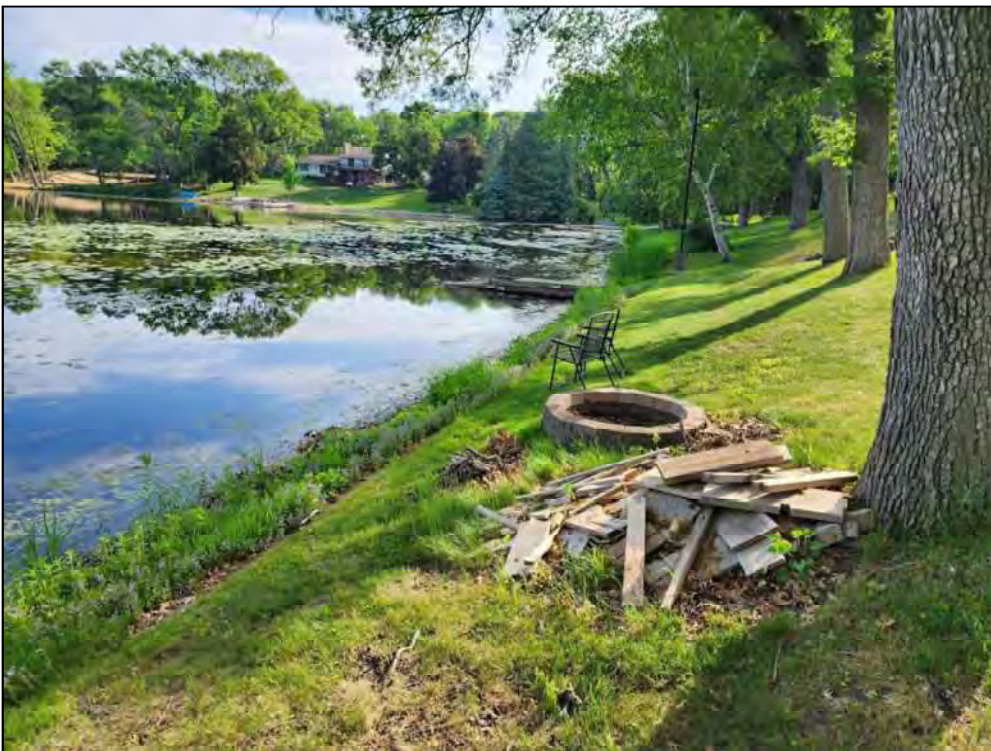
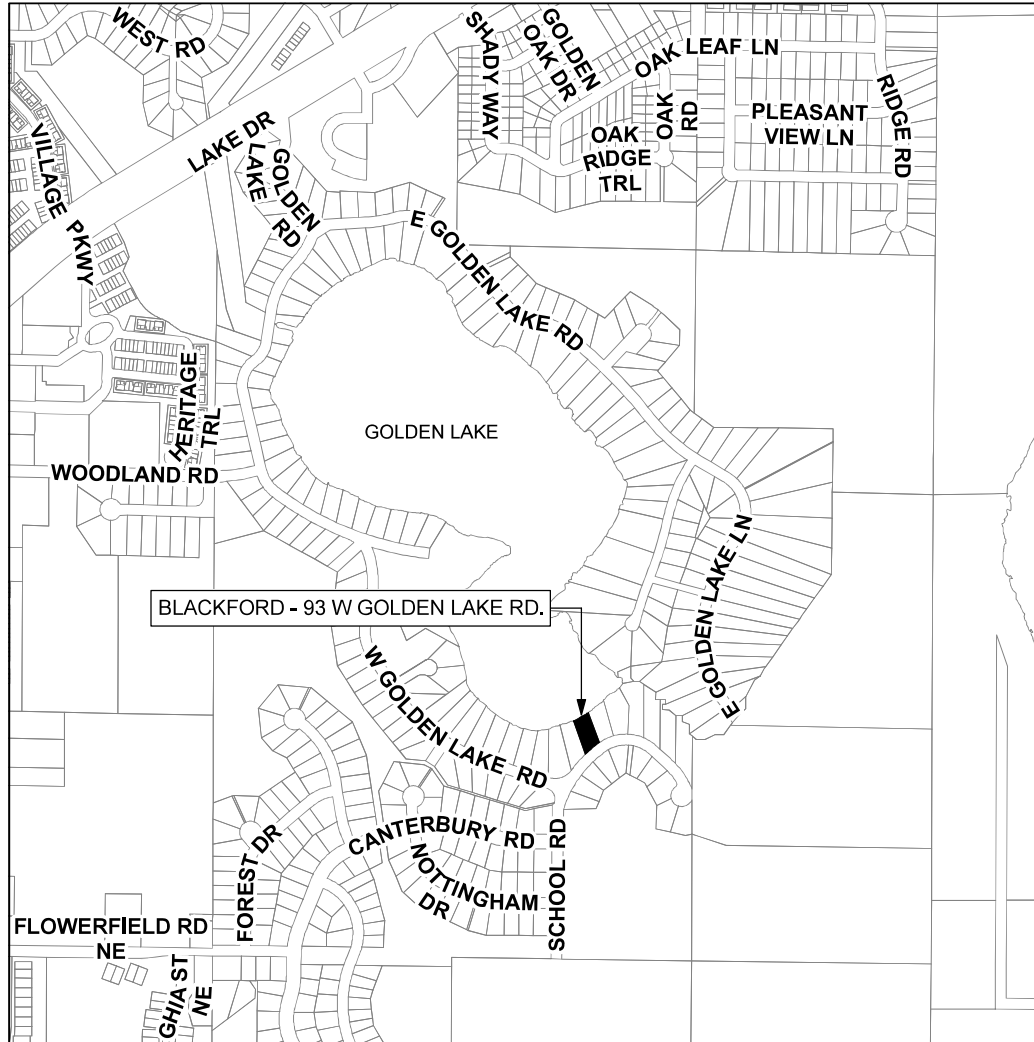


Figure 2: Current bank condition. Sparse weeds along the shoreline transition to a turf grass yard. Picture taken facing northeast.

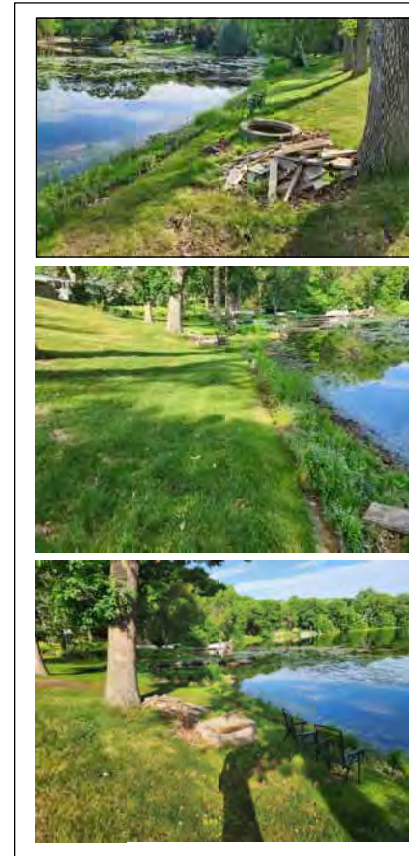
BLACKFORD LAKESHORE RESTORATION



CIRCLE PINES, ANOKA COUNTY

PROJECT LOCATION

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	PROJECT LOCATION MAP
2	PLANTING PLAN
3	CONSTRUCTION SEQUENCE



EXISTING CONDITIONS JUNE 2023



1318 MCKAY DR. NE, SUITE 300
HAM LAKE, MN 55304
763-434-2030
www.AnokaSWCD.org

PROJECT: BLACKFORD LAKESHORE STABILIZATION

LOCATION:
93 W GOLDEN LAKE RD.
CIRCLE PINES, MN 55014

CLIENT: DAVID BLACKFORD

DESIGNER: MITCH HAUSTEIN
DATE: 06/28/2023
REVISION:
REVISION:

NRCS PRACTICE #: 580

JAA SIGNATURE/DATE:

NRCS PRACTICE #: 342

JAA SIGNATURE/DATE:

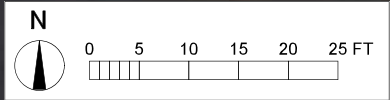
NOTES:
1. Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked.
2. Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) prior to making any changes.

SCALE: VARIABLE

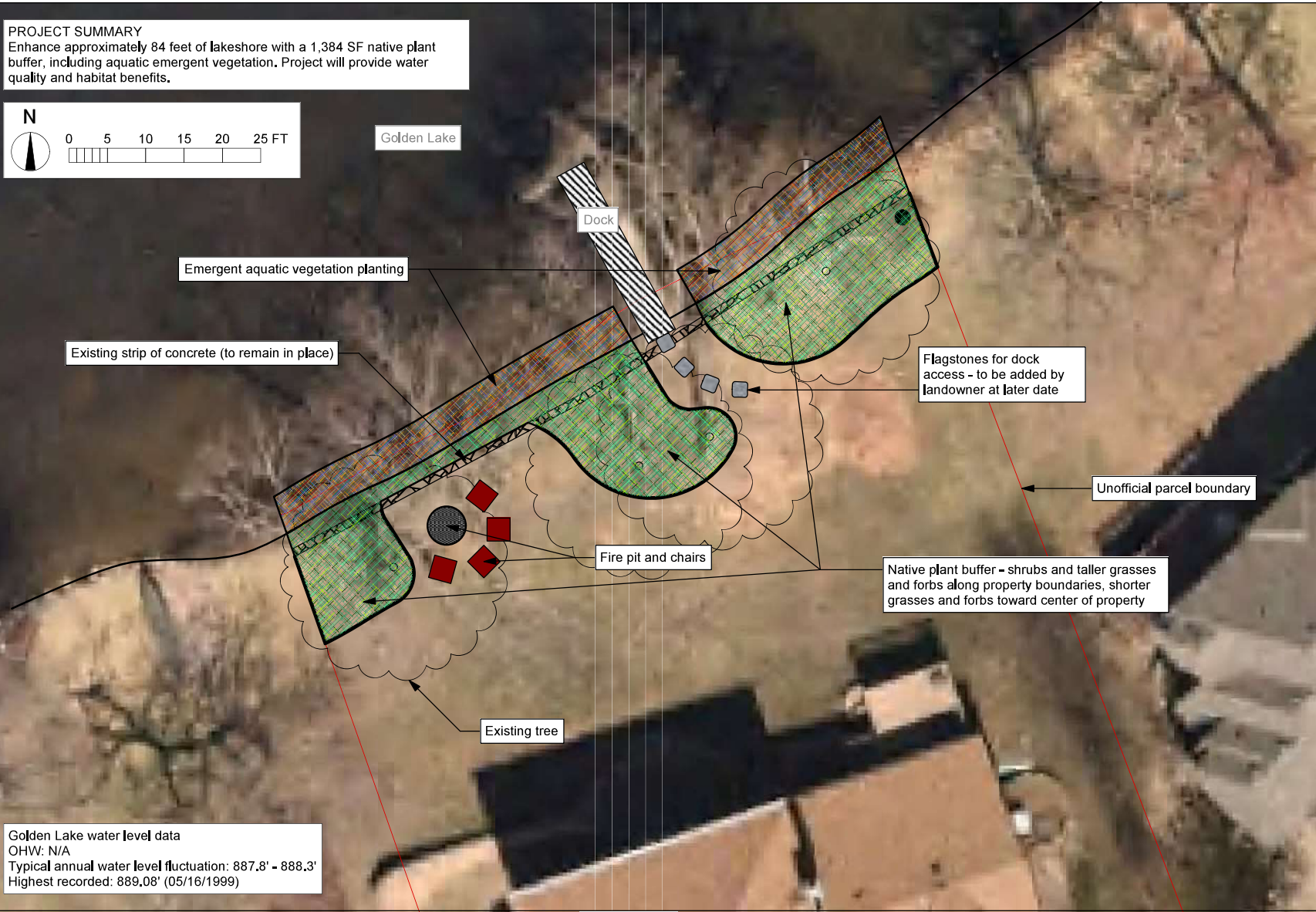
PROJECT LOCATION

SHEET 1/4

PROJECT SUMMARY
 Enhance approximately 84 feet of lakeshore with a 1,384 SF native plant buffer, including aquatic emergent vegetation. Project will provide water quality and habitat benefits.



Golden Lake



Golden Lake water level data
 OHW: N/A
 Typical annual water level fluctuation: 887.8' - 888.3'
 Highest recorded: 889.08' (05/16/1999)

PLAN VIEW



1318 MCKAY DR. NE, SUITE 300
 HAM LAKE, MN 55304
 763-434-2030
 www.AnokaSWCD.org

PROJECT: BLACKFORD LAKESHORE STABILIZATION

LOCATION:
 93 W GOLDEN LAKE RD.
 CIRCLE PINES, MN 55014

CLIENT: DAVID BLACKFORD

DESIGNER: MITCH HAUSTEIN
 DATE: 06/28/2023
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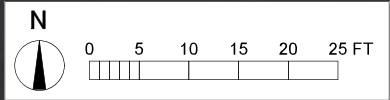
- NOTES:
- Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked.
 - Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) prior to making any changes.

SCALE: VARIABLE

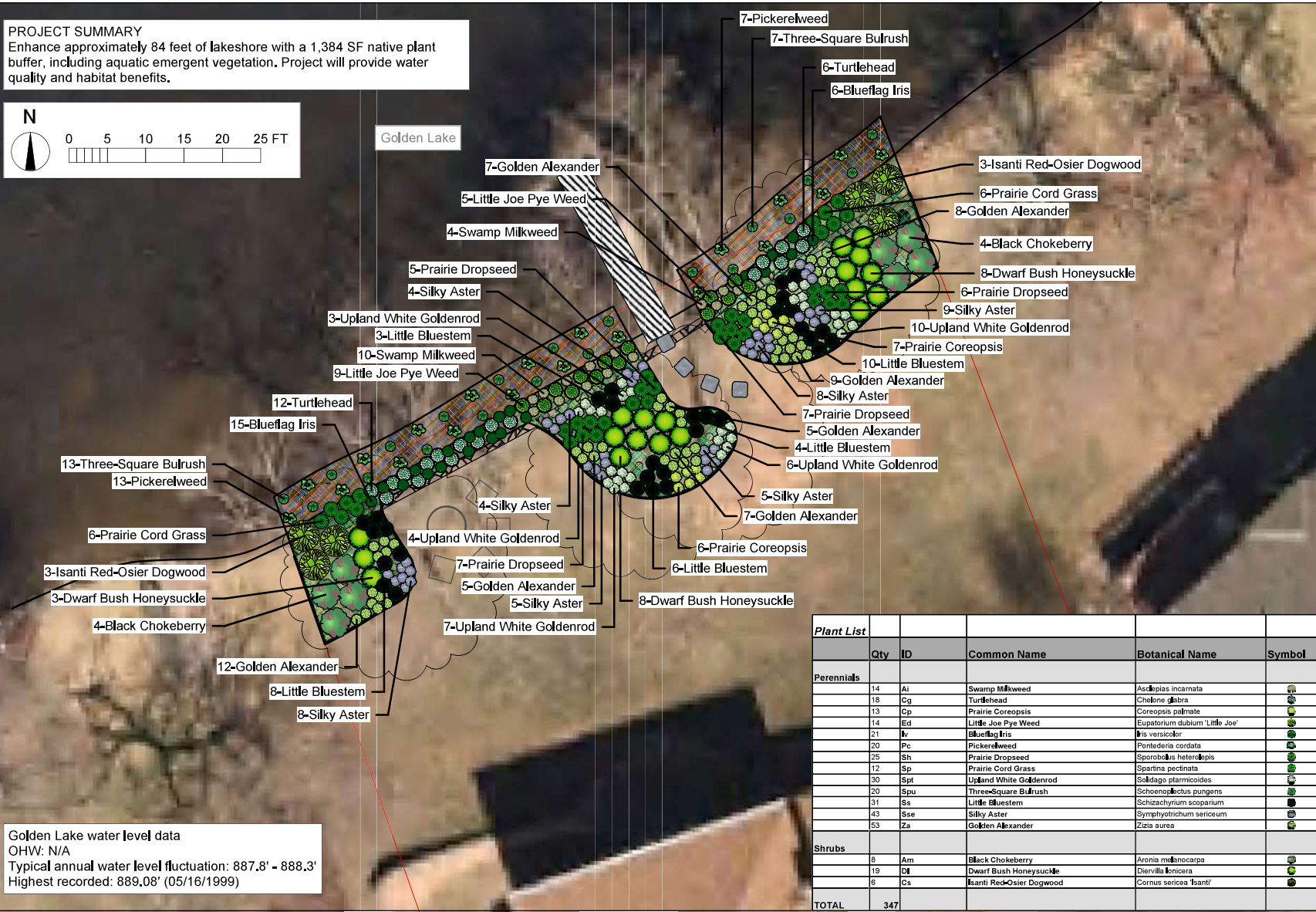
LAYOUT PLAN

SHEET 2/4

PROJECT SUMMARY
 Enhance approximately 84 feet of lakeshore with a 1,384 SF native plant buffer, including aquatic emergent vegetation. Project will provide water quality and habitat benefits.



Golden Lake



Golden Lake water level data
 OHW: N/A
 Typical annual water level fluctuation: 887.8' - 888.3'
 Highest recorded: 889.08' (05/16/1999)

Plant List	Qty	ID	Common Name	Botanical Name	Symbol
Perennials					
	14	AI	Swamp Milkweed	Asclepias incarnata	
	13	CG	Turtlehead	Chelone glabra	
	13	CP	Prairie Coreopsis	Coreopsis palmata	
	14	ED	Little Joe Pye Weed	Eupatorium dubium 'Little Joe'	
	21	IV	Blueflag Iris	Iris versicolor	
	20	PC	Pickerelweed	Pontederia cordata	
	25	SH	Prairie Dropseed	Sporobolus heterolepis	
	12	SP	Prairie Cord Grass	Spartina pectinata	
	30	SPT	Upland White Goldenrod	Solidago ptarmicoides	
	20	SQU	Three-Square Bulrush	Schoenoplectus pungens	
	31	SS	Little Bluestem	Schizachyrium scoparium	
	43	SSE	Silky Aster	Symphotrichum sericeum	
	53	ZA	Golden Alexander	Zizia aurea	
Shrubs					
	8	AM	Black Chokeberry	Aronia melanocarpa	
	19	DI	Dwarf Bush Honeysuckle	Diervilla bicolora	
	6	CS	Isanti Red-Osier Dogwood	Cornus sericea 'Isanti'	
TOTAL	347				

PLAN VIEW

1318 MCKAY DR. NE, SUITE 300
 HAM LAKE, MN 55304
 763-434-2030
 www.AnokaSWCD.org

PROJECT: BLACKFORD LAKESHORE STABILIZATION

LOCATION:
 93 W GOLDEN LAKE RD.
 CIRCLE PINES, MN 55014

CLIENT: DAVID BLACKFORD

DESIGNER: MITCH HAUSTEIN
DATE: 06/28/2023
REVISION:
REVISION:

NRCS PRACTICE #: 580

JAA SIGNATURE/DATE:
NRCS PRACTICE #: 342

JAA SIGNATURE/DATE:

NOTES:

- Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked.
- Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) prior to making any changes.

SCALE: VARIABLE

PLANTING PLAN


SHEET 3/4

GENERAL PROJECT STEPS

1. **Permits** - Landowner to secure MN DNR permit (if necessary) and check with the City of Circle Pines and Rice Creek Watershed District for any other permits required.
2. **Secure contractor** - Landowner solicits at least two quotes and selects contractor.
3. **Verify property boundary** - Contractor must verify project extents with landowner to fit within property boundaries.
4. **Order materials and plants** - Contractor to place orders in advance of the date needed to ensure availability and delivery.
5. **Utility locate** - Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked - contractor's responsibility.
6. **Layout and herbicide** - Mark planting areas. Treat existing vegetation within planting area with glyphosate herbicide. If herbicide overspray into the lake may occur it must be minimized and an aquatic-safe glyphosate is required. No herbicide should be applied to existing emergent aquatic plants, such as cattails or other vegetation in the lake. Repeat the herbicide treatment two weeks after the initial treatment. Landscape fabric and/or erosion control blanket and mulch may occur immediately thereafter. Planting may occur no sooner than five days after the second herbicide treatment.
7. **Install landscaping fabric in planting area** - 20-year or better quality fabric that readily passes water is required. Overlap edges of landscaping fabric at least 6 inches. Secure overlap with 6" biodegradable bio-stakes at approx 2 ft. intervals. All seams must be stapled and include 6 inch overlap minimum.
8. **Install lawn edging** - Edging circumscribes planting area, except on lakeshore. Top of edging shall be at ground level for ease of future mowing. Do not install edging within 2 feet of water edge.
9. **Mulch** - Spread 3" thick maximum layer of double-shredded hardwood mulch in planting area.
10. **Site restoration** - Contractor is responsible to restore any site disturbance due to construction through grading and re-seeding with turf grass. Landowner is responsible to water seeded areas.
11. **Landowner planting** - For each plant, pull mulch aside and cut an "X" in the landscape fabric or erosion control blanket. A cordless drill with bulb auger may be used to make plant hole. All plants should be spaced as shown in planting plan.
12. **Landowner watering** - Landowner will ensure that planting receives at least 1" of water per week through September. The first 60 days after planting are most critical.
13. **Landowner weeding** - Landowner will remove weeds approximately every two weeks. Any plant in the project area that was not planted should be removed (except aquatic plants like cattails, where State law governs).
14. **Landowner maintenance** - As needed, remove weeds and refresh mulch. After the first growing season the need for watering will be minimal, but during drought conditions occasional watering is beneficial.

- Materials and plant substitutions may be made with advanced authorization from ACD.
- If required, MN DNR Permit must be secured before work begins. Contractor must keep copy of permit at work site and comply with terms of permit.
- Direct questions to Mitch Hausteine at 763-434-2030 x150 or Mitch.Hausteine@AnokaSWCD.org

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY
1	MOBILIZATION/DEMOBILIZATION	EA	1
2	HERBICIDE EXISTING VEGETATION (RODEO OR SIMILAR AQUATIC-SAFE GLYPHOSATE CONCENTRATE, 2 APPLICATIONS)	SF	1007
3	LANDSCAPE FABRIC (20-YEAR OR BETTER) AND BIO-STAKES (BIODEGRADABLE)	SY	112
4	VINYL LANDSCAPE EDGING	LF	133
5	DOUBLE SHREDDED HARDWOOD MULCH (3" MAX)	CY	9.3
6	1" PLANT PLUG (PROVIDE ONLY, LANDOWNER TO INSTALL)	Ea	253
7	4" AQUATIC PLANT POTS (PROVIDE ONLY, LANDOWNER TO INSTALL) - PICKERELWEED AND THREE-SQUARE BULLRUSH	Ea	40
8	4" PLANT POTS (PROVIDE ONLY, LANDOWNER TO INSTALL) - BLUEFLAG IRIS AND DWARF BUSH HONEYSUCKLE	Ea	40
9	1-GALLON PLANT POT (PROVIDE ONLY, LANDOWNER TO INSTALL) - BLACK CHOKEBERRY AND RED-OSIER DOGWOOD	Ea	14



1318 MCKAY DR. NE, SUITE 300
HAM LAKE, MN 55304
763-434-2030
www.AnokaSWCD.org

PROJECT: BLACKFORD LAKESHORE STABILIZATION

LOCATION:
93 W GOLDEN LAKE RD.
CIRCLE PINES, MN 55014

CLIENT: DAVID BLACKFORD

DESIGNER: MITCH HAUSTEIN
DATE: 06/28/2023
REVISION:
REVISION:

NRCS PRACTICE #: 580

JAA SIGNATURE/DATE:

NRCS PRACTICE #: 342

JAA SIGNATURE/DATE:

NOTES:
1. Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked.
2. Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) prior to making any changes.

SCALE: VARIABLE

PROPOSED
CONSTRUCTION
SEQUENCE

SHEET 4/4

ACD COST ESTIMATE - 93 W GOLDEN LAKE ROAD, CIRCLE PINES, MN 55014

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL		
			ESTIMATED QUANTITY	UNIT PRICE	EXTENSION
1	MOBILIZATION/DEMOBILIZATION	EA	1	\$500.00	\$500.00
2	HERBICIDE EXISTING VEGETATION (RODEO OR SIMILAR AQUATIC-SAFE GLYPHOSATE CONCENTRATE, 2 APPLICATIONS)	SF	1007	\$0.40	\$402.80
3	LANDSCAPE FABRIC (20-YEAR OR BETTER) AND BIO-STAKES (BIODEGRADABLE)	SY	112	\$5.00	\$560.00
4	VINYL LANDSCAPE EDGING	LF	133	\$7.00	\$931.00
5	DOUBLE SHREDDED HARDWOOD MULCH (3" MAX)	CY	9.3	\$45.00	\$418.50
6	1" PLANT PLUG (PROVIDE ONLY, LANDOWNER TO INSTALL)	EA	253	\$3.00	\$759.00
7	4" AQUATIC PLANT POTS (PROVIDE ONLY, LANDOWNER TO INSTALL)	EA	40	\$6.00	\$240.00
8	4" PLANT POTS (PROVIDE ONLY, LANDOWNER TO INSTALL)	EA	40	\$6.00	\$240.00
9	1-GALLON PLANT POT (PROVIDE ONLY, LANDOWNER TO INSTALL)	EA	14	\$12.00	\$168.00
TOTAL					\$4,219.30



David Blackford
 93 W Golden Lake Rd
 Circle Pines MN 55014

Shoreline ESTIMATE

Estimate # 0000830
Estimate Date 07/15/2023

Item	Description	Unit Price	Quantity	Amount
Product	Disposal of Organic Material (cy) per quoted estimate - 1007	45.00	8.00	360.00
Product	Landscape Fabric (20 year or better) and bio stakes	2.00	112.00	224.00
Product	Vinyl Landscape Edging (20' sections)	16.00	7.00	112.00
Product	Double Shredded Hardwood Mulch (3"max) cy	45.00	9.30	418.50
Product	1" Plant Plugs (sold as 6packs)	46.00	13.50	621.00
Product	4" Plant Pots	61.00	6.75	411.75
Product	#2 Gallon Plants (Dwarf Bush Honeysuckle, Black Chokeberry and Red-Osier Dogwood)	18.00	33.00	594.00
Product	Installation	2000.00	1.25	2,500.00

NOTES: This estimate is to remove the vegetation in the proposed planting area, install fabric, stake it in, provide the plants, plant and mulch the area. All plants and materials are subject to availability. Sod and seed is not covered under warranty.

Estimates are an approximate calculation or judgment of the value, number, quantity, or extent of the work requested. Additional work requested, changes discussed or material changes and charges will be reflected upon the final invoicing. To have this estimate scheduled, a signed estimate (by all parties noted) and 50% deposit needs to be returned. Balance will be due upon completion of work. Credit cards and Venmo will have an additional 3% charge per transaction. Any returned checks will have a \$50 fee added on to the remaining balance due and all bank charges incurred by Fresh Vision Landscape LLC will need to be covered by the client. Failure to pay balance upon completion will result in late fees and interest until balance is paid.

Thank you for working with Fresh Vision Landscape LLC.

	Subtotal	5,241.25
	Total	5,241.25
	Amount Paid	0.00
	Estimate	\$5,241.25

QUOTE FORM

Blackford Golden Lake Lakeshore Restoration
93 W Golden Lake Rd.
Circle Pines, MN 55014

Instructions: In the quote table on the following page, enter unit prices which represent the cost of all materials, labor, tools, fuel, transportation and all else needed to complete the work for each line item (i.e. the installed price). Enter an extended amount by multiplying the estimated quantity and the unit price. Sum the extended amount for all items to calculate the total quote.

Total Quote \$: 14,330.28

Total Quote in Words: FOURTEEN THOUSAND THREE HUNDRED THIRTY DOLLARS AND ²⁸/₁₀₀

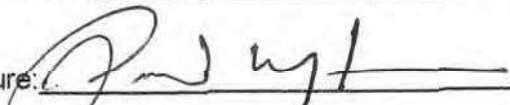
I/we propose to complete construction by: Aug. 31st, 2023 (date)

I/we will not withdraw this quote for a period of 60 days.

Company Name: MICKMAN BROTHERS INC.

Phone Number: 612-730-1921

Name Printed: Paul Mayhew

Signature: 

Date: 7-13-23

*NOTES:
PLEASE NOTE PLANT SIZES & SUBSTITUTIONS
ON MICKMAN BROTHERS LETTER HEAD
PROPOSAL.

QUOTE FORM

Blackford Golden Lake Lakeshore Restoration
 93 W Golden Lake Rd.
 Circle Pines, MN 55014

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	UNIT PRICE	EXTENDED PRICE
1	MOBILIZATION/DEMOBILIZATION	LS	1		\$8,220.20
2	HERBICIDE EXISTING VEGETATION (RODEO OR SIMILAR AQUATIC-SAFE GLYPHOSATE CONCENTRATE, 2 APPLICATIONS)	SF	1007		\$649.17
3	LANDSCAPE FABRIC (20-YEAR OR BETTER) AND BIO-STAKES (BIODEGRADABLE)	SY	112		\$605.92
4	VINYL LANDSCAPE EDGING	LF	133		\$667.56
5	DOUBLE SHREDDED HARDWOOD MULCH (3" MAX)	CY	9.3		\$1,275.97
6	1" PLANT PLUG (PROVIDE ONLY, LANDOWNER TO INSTALL)	EACH	253		\$1,341.27
7	4" AQUATIC PLANT POTS (PROVIDE ONLY, LANDOWNER TO INSTALL) - PICKERELWEED AND THREE-SQUARE BULLRUSH	EACH	40		\$260.93
8	4" PLANT POTS (PROVIDE ONLY, LANDOWNER TO INSTALL) - BLUEFLAG IRIS AND DWARF BUSH HONEYSUCKLE	EACH	40		\$892.51
9	1-GALLON PLANT POT (PROVIDE ONLY, LANDOWNER TO INSTALL) - BLACK CHOKEBERRY AND RED-OSIER DOGWOOD	EACH	14		\$416.75
				TOTAL	\$14,330.28



PROPOSAL

PROPOSAL SUBMITTED TO: Blackford Lakeshore Stabilization Project	PHONE: 0	DATE: July 14, 2023
JOB NAME: 93 West Golden Lake Rd.		
CITY, STATE, AND ZIP CODE: Circle Pines, MN. 55014	JOB LOCATION: 0	EMAIL ADDRESS: 0
DESIGNER / ESTIMATOR: Paul Mayhew	DATE OF PLANS:	JOB PHONE:
<p>We hereby submit specifications and estimates for:</p> <p>1.) Mobilization, removals, silt fencing, sod restoration w/seed & soil, \$8,220.20</p> <p>2.) Roundup Custon non selective Grass killer, Aquatic-safe (two applications), \$649.17</p> <p>3.) Landscaping Weed Barrior Fabric w/Bio-stakes, \$605.92</p> <p>4.) Vinyl Edging, \$667.56 (if more is needed additional cost will apply)</p> <p>5.) 3" Layer of Double Shredded Hardwood Mulch, \$1,275.97 (9.3cy total quantity in bid, if more is needed additional cost will apply)</p> <p>6.) 253 Plug plantings, \$1,341.27 (owner to plant, average plug size 3.5")</p> <p>7.) 20, 3.5" potted Great Blue lobelia/sub for Pickerelweed & 20, 3.5 potted Green Bulrush/sub for Three-Square Bullrush, \$260.93</p> <p>8.) 21, 3.5" potted Blueflag Iris & 19, 2gal. Dw. Bush Honeysuckle, \$892.51</p> <p>9.) 8, 2gal. Black Chokeberry & 6, 2gal. Isanti Dogwood, \$416.75</p>		
Notes:		
<p>* Bid or bids do not include irrigation restoration. Additional cost for repairs or adjustments if system is damaged during construction.</p> <p>* Removals are estimated to be 2"-3" deep. If additional materials are discovered under the 2"-3" surface, additional charges will apply.</p> <p>* Sod Restoration for machine is included in proposal and will be repaired with Grass seed.</p> <p>* All plant installation and obtaining needed permits by homeowner</p>		
<p>We propose hereby to furnish material and labor - complete in accordance with the above specifications for the sum of:</p> <p style="text-align: center;">Total Project Amount, \$14,330.28</p>		
Authorized Signature:	Date: 7-14-23	
<p>1/3 Down payment upon acceptance of proposal and balance due upon substantial completion</p> <p>Mickman Brothers, Inc. guarantees its Deciduous and Evergreen trees and shrubs for one year. It is our Policy to replace, one time, any plant that fails to survive under normal growing conditions* for one year. Perennials and Roses are warranted until September 1 of the year that they are purchased. Annuals and Sod are not warranted. This proposal may be withdrawn by us if not accepted within 30 days.</p> <p>* Normal Growing Conditions do not include damage due to any other means than our climate.</p> <p>All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner is to carry fire, tornado, and any other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.</p>		
<p>1. Mickman Brothers Inc. will arrange to have located and be responsible for all public utility service lines on the property of the owner, telephone, These utilities are limited to: electric, gas, and cable TV lines. 2. Reciprocally, the owner is responsible for notifying exact locations of all other obstacles that could be damaged including, but not limited to; existing sprinkler lines, underground wiring and barbecue gas lines. Mickman Brothers Inc. cannot be responsible for any unknown perils. 3. Warranty is void if payment for project is 1 week overdue. Persons or companies furnishing labor or materials for the improvement of real property may enforce a lien upon the improved land if they are not paid for their contributions, even if the parties have no direct contractual relationship with the owner. If customer fails to pay any invoice when due, including applicable late fees and finance charges, and collection efforts become necessary, customer shall also pay all of Mickman Brothers' costs of collection including legal fees.</p>		
<p>Acceptance of Proposal - The above prices, specifications, and conditions are satisfactory and are hereby accepted.</p> <p>Mickman Brothers, Inc. is authorized to do the work specified. Payment to be made as outlined above.</p>		
Date of Acceptance:	Signature:	

14630 Highway 65 • Ham Lake, Minnesota 55304 • 763-434-4047 • 800-446-4229 • Fax 763-434-4611



Landscape Design & Construction Phone: 763-434-3346 Fax: 763-413-8302	Irrigation Design & Construction Phone: 763-434-1487 Fax: 763-413-8297	Landscape Management Phone: 763-413-8296 Fax: 763-413-8297	Family Garden Center Phone: 763-413-3000 Fax: 763-434-4611
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www.mickman.com

MEMORANDUM
Rice Creek Watershed District



Date: August 3rd, 2023
To: RCWD Board of Managers
From: Molly Nelson, Watershed Technician/ Water Resources Specialist
Subject: R23-06 Ommen Shoreline Restoration,
RCWD Water Quality Grant Program Application

Introduction

R23-06 Ommen Shoreline Restoration

- Applicant: Jerilynn Ommen
- Location: 4725 Lake Ave, White Bear Lake, MN 55110
- Project Type: Shoreline Restoration
- Total Eligible Project Cost: \$22,957.49
- RCWD Grant Recommendation: \$7,500.00 (50%)

Background

This application proposes a shoreline restoration project that is on approximately 230 linear feet of steep slope and eroding shoreline along the western side of White Bear Lake in the City of White Bear Lake. The shoreline consists of abundant invasive and non-native vegetation leading up to the high-water level. The project location scored a value of 24 on the Water Quality Grant Program Screening form.

The Ramsey County Parks & Recreation Soil and Water Conservation Division (RCSWCD) created a design for the project and provided recommendations that have been included in the design. RCWD staff is comfortable with the design presented in this application. The project as proposed would stabilize and restore the shoreline with a native plant buffer and filter runoff before it discharges to White Bear Lake. The total catchment area for the project is 10,004 square feet. The estimated pollutant reductions for the proposed project are: 63% reduction in volume (7,723 cu-ft/yr), 90% reduction in total suspended solids (TSS) (566 pounds/year), and a 76% reduction in total phosphorus (TP) (0.78 pounds/ year).

The applicant obtained two bids for the project:

- Native Resource Preservation, LLC: \$22,957.49
- Natural Shore Technologies, Inc: \$28,404.00

The District will proceed with the lowest bid for the project upon approval of the application for cost-share. The project application was discussed at the CAC meeting on August 2nd. The CAC was supportive of the project and recommended it as presented. Motion carried 8-0.

Staff Recommendation

RCWD's Citizen Advisory Committee and Staff recommend that the RCWD Board of Managers approve Water Quality Grant funds for R23-06 Ommen shoreline restoration.

Request for Board Consensus OR Proposed Motion

Manager _____ moves to authorize the Administrator, on advice of counsel, to approve the Water Quality Grant Contract R23-06 of \$7,500.00 not to exceed 50% of eligible project costs or up



MEMORANDUM
Rice Creek Watershed District

to \$7,500.00, whichever amount is lower, as outlined in the consent agenda and in accordance with the RCWD Staff's recommendation and established program guidelines.

Attachments

Water Quality Grant R23-06 application items



To: RCWD Advisory Committee
From: Brian Olsen : Environmental Resource Specialist
Date: 20-July-2023
Re: Ommen Cost Share Application

Project:

4725 Lake Ave
 White Bear Lake, MN 55110
 Shoreline Restoration

Material & Labor Estimate: \$22,957.49
Cost Share Request: \$7,500.00

Background:

The proposed project is to restore the ~230' of shoreline along Lake Avenue at the said property to a native vegetative landcover. The current condition is a steep slope (~28% grade) covered by overgrown, predominantly non-native vegetation down to the ordinary high water level, with some risk of erosion near the toe of the slope. Project located in a highly-visible location on Lake Avenue and its popular walk path, and adjacent to the active historic society, the restored shoreline will seek to demonstrate how native shorelines can be beautiful and ecologically beneficial while still providing access for residents.

The proposed design uses a combination of native seeding and planting to restore the shoreline to the ordinary high water level. Densely grouped pollinator-friendly native plantings create a focal point around the modest access stairway. The use of native grasses and lowgrowing plantings along the public walk demonstrate an alternative to traditional mown turf and offer seasonal interest while respecting maintenance regimes & use zones of the walking path.

The design minimizes work below the dripline of the site's significant bur oak trees and uses BMPs during installation to provide erosion control. Once completed, the restored shoreline will serve to improve water quality, support wildlife and pollinator habitat, and demonstrate an aesthetically pleasing shoreline and a sustainable relationship with White Bear Lake. Please see the attached drawings for details of the proposed planting palette, methods, and features of the shoreline restoration. Grant request is for native plantings and seeding, and restoration practices only.

Total catchment area treated by the proposed project is 10,004 square feet (0.23 acres). It is 31% impervious and includes sidewalk/pathway, and landscape. Once installed this shoreline will reduce the amount and rate of pollutants and runoff entering the lake. It also will provide excellent pollinator habitat and provide a highly visible educational opportunity.

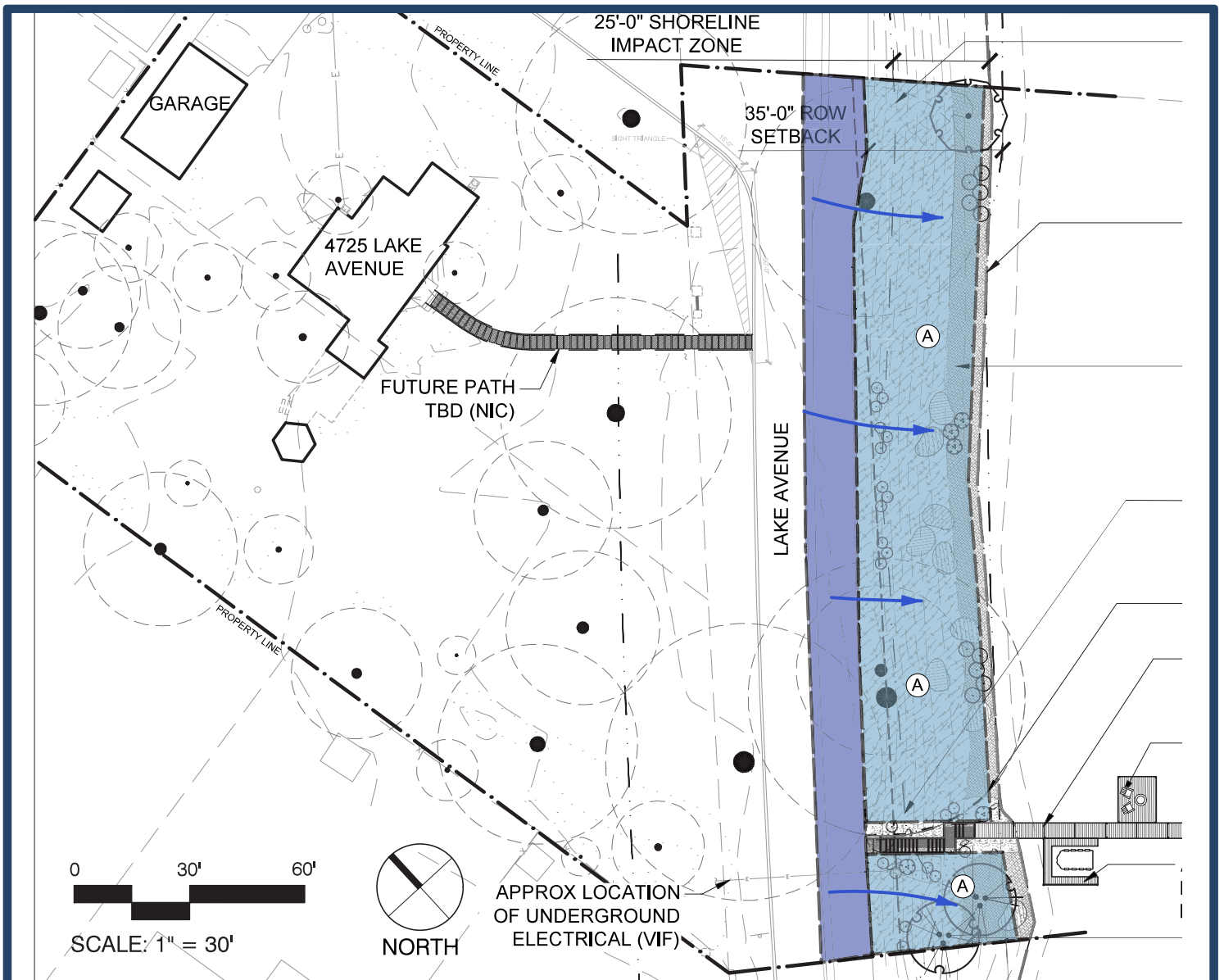
Recommendation:

It is my recommendation that this project be awarded cost share in the amount of \$7,500 or 50% of the eligible project costs, whichever is less.

Pollution Reductions:

	<i>Before</i>	<i>After</i>	<i>Reduction</i>	<i>Red. %</i>
Volume (cu-ft/yr)	12,189	4,466	7,723	63%
TSS (lbs/yr)	625.60	59.50	566.10	90%
TP (lbs/yr)	1.024	0.241	0.783	76%

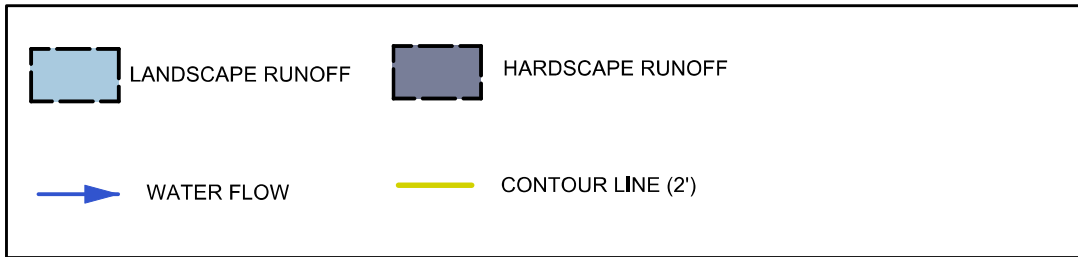
EXHIBIT A: Site Drainage



PROPOSED PROJECTS

ID	PROJECT TYPE	SIZE [SQ-FT]	COST ESTIMATE	ESTIMATED GRANT AWARD	AFFECTED WATER BODY	CLEAN WATER BENEFIT
A	SHORELINE RESTORATION	~5,000	\$22,957.49	\$7,500 [50%]	WHITE BEAR LAKE	SEDIMENT/PHOSPHOROUS

LEGEND



NOTES

CONCEPTUAL DRAWING FOR REFERENCE USE ONLY
 * DISCLAIMERS:
 1. COST SHARE FUNDING UP TO 75%, CAPPED AT \$7,500 PER PROJECT
 2. COSTS AND PERCENTAGES ARE ESTIMATES. FUNDING IS DEPENDENT ON APPROVAL BY THE RCWD BOARD OF SUPERVISORS

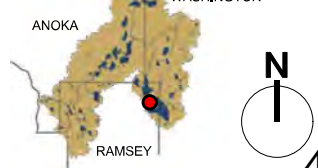


CLEAN WATER PLAN

PROPERTY OWNER:
 OMMEN RESIDENCE
 ADDRESS
 4725 LAKE AVE.
 WHITE BEAR LAKE, MN 55110

DATE: 07/07/2023
 CLEAN WATER PLAN PROVIDED BY:
 RICE CREEK WATERSHED DISTRICT [RCWD]
 & RAMSEY COUNTY SOIL & WATER
 CONSERVATION DIVISION

PROJECT LOCATION WITHIN WATERSHED:
 WASHINGTON





Legend

-  Project Location



CODE COMPLIANCE

1. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LAWS, CODES AND REQUIREMENTS OF REGULATORY AGENCIES HAVING JURISDICTION.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF DISCREPANCIES BETWEEN THE WORK AND APPLICABLE CODES. DO NOT WORK IN AN AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
3. VERIFY CODES IN EFFECT AT THE TIME OF THE NOTICE TO PROCEED AND STAY CURRENT WITH CODE CHANGES WHICH AFFECT THE WORK UNTIL SUBSTANTIAL COMPLETION.
4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR CONSTRUCTION RELATED PERMITS.

CODES IN EFFECT

1. THE FOLLOWING CODES ARE APPLICABLE AND IN EFFECT:
 - 2020 MN STATE BUILDING CODE
 - LOCAL WATERSHED & CONSERVATION DISTRICT ORDINANCES & REGULATIONS
 - MN DNR AQUATIC PLANT MANAGEMENT PROGRAM
2. REVISIONS TO THE APPROVED AND PERMITTED DRAWINGS OR DOCUMENTS SHALL BE SUBMITTED TO THE CODE AUTHORITIES FOR REVIEW. NOTIFY THE OWNER'S REPRESENTATIVE OF THE PROCESSING TIME FOR EACH REVISION SUBMITTED FOR PLAN CHECK.

SITE PREPARATION NOTES:

1. CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
2. CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
3. INSTALL EROSION CONTROL MEASURES (BIOLOG) PRIOR TO COMMENCING WORK ON SITE. PROTECT EXISTING WATER BODIES FROM CONSTRUCTION ACTIVITIES AND POLLUTANTS, INCLUDING SEDIMENTATION, THROUGHOUT THE DURATION OF SHORELINE RESTORATION AND CONSTRUCTION.

TREE PROTECTION:

1. CONTRACTOR SHALL PRESERVE TREES SHOWN IN THE DRAWINGS TO BE PROTECTED AND PRESERVED. INSTALL TREE PROTECTION MEASURES PER DETAILS.
2. TREE PROTECTION MEASURES ARE TO BE INSTALLED PRIOR TO DEMOLITION AND REMOVALS AND SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
3. NO WORK SHALL OCCUR IN TREE PROTECTION ZONES UNLESS INDICATED.
4. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS AS PRESCRIBED IN NOTES AND DETAILS TO MINIMIZE DAMAGE TO TREES WHERE WORK IS DESIGNATED TO OCCUR WITHIN AND ADJACENT TO THE DRIPLINE OF TREES. REFER TO TREE PROTECTION DETAILS FOR TREE PROTECTION FENCE, TRUNK PROTECTION, AND PRUNING PRACTICES.
 - 4.1. EXCAVATION WORK WITHIN DRIPLINE OF TREES SHALL BE LIMITED TO HAND REMOVAL, DIRECTIONAL BORING, AND AIR KNIFE ONLY TO MINIMIZE DAMAGE TO ROOT SYSTEMS. SEE SPECIFICATIONS FOR DIRECTIONAL BORING DEPTHS WITHIN DRIPLINE OF TREES.
 - 4.2. WHERE WORK IS TO OCCUR WITHIN DRIPLINE OF TREES OR TREE PROTECTION ZONES, PROVIDE ROOT PRUNING AS

- CLEANLY CUT ROOTS PRIOR TO EXCAVATION OR TRENCHING ACTIVITIES. ROOT PRUNING TO BE PERFORMED BY ISA CERTIFIED ARBORIST FAMILIAR WITH ROOT PRUNING PRACTICES.
- 4.3. PROTECT TRUNK AND BRANCHES FROM DAMAGE WHERE WORK IS DESIGNATED TO OCCUR WITHIN THE DRIPLINE OF TREES. PROVIDE TRUNK PROTECTION PER DETAILS.
 5. CONTRACTOR SHALL NOT PLACE TEMPORARY STRUCTURES OR STORE MATERIALS IN TREE PROTECTION ZONES OR WITHIN THE DRIPLINE OF TREES.

SHORELINE RESTORATION NOTES:

1. INSTALL EROSION CONTROL (BIOLOG) & TREE PROTECTION MEASURES PRIOR TO BEGINNING WORK.
2. COMPLETE SEEDING & EROSION CONTROL BLANKETING BEFORE INSTALLING TREES, SHRUBS, PERENNIALS & PLUGS.

VEGETATION REMOVAL:

1. PROVIDE VEGETATION REMOVAL ABOVE OHWL VIA AQUATIC-SAFE HERBICIDE & MECHANICAL REMOVAL. PROVIDE TWO APPLICATIONS OF HERBICIDE 14-21 DAYS APART.
2. CLEAR AND GRUB WOODY MATERIAL TO 6" BELOW GRADE.
3. AFTER HERBICIDE TAKES EFFECT, REMOVE DEAD VEGETATION VIA MOW & RAKING, DO NOT TILL.

PREPARE SOILS:

1. REMOVE DEBRIS <1" DIA & RAKE SOILS TO PROVIDE A SMOOTH, FIRM SEEDBED.
2. RAKE/HARROW EXPOSED SOILS TO PROMOTE SEED TO SOIL CONTACT.
3. SOIL WRAPS/LIFTS MAY BE REQUIRED IF AREAS OF EROSION OCCUR.

SEEDING:

1. BROADCAST SEED AT 2X SEEDING RATE (TO BUILD SOIL SEED BANK).
2. LIGHTLY RAKE SOILS TO INCORPORATE SEED.
3. CONTRACTOR MAY ELECT TO SEED GRASSES SEPARATELY FROM FORBS TO PROMOTE ESTABLISHMENT.

EROSION CONTROL:

1. PROTECT SLOPE AND SEEDED AREAS WITH MNDOT CATEGORY 20 EROSION CONTROL BLANKET AND STAKE IN PLACE USE CATEGORY 37 / COIR EROSION CONTROL BLANKET AT FEATURE PLANTING AREA TO ALLOW PLANTING OF LARGER PERENNIALS AND SHRUBS INTO EROSION CONTROL BLANKET.
2. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES AND EXCESS SEDIMENT IN PROPOSED CATCH BASINS. FOR THE DURATION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED AND DISPOSE OF OFF SITE.

PLANTING:

1. INSTALL PLUG AND SHRUB PLANTING THRU EROSION CONTROL BLANKET.
2. WATER AS NEEDED TO PROMOTE ESTABLISHMENT (MIN 1" PER WEEK DURING FIRST GROWING SEASON)
3. PLANTING OF FORB PLUGS AND STAIRWAY PLANTING MAY OCCUR SEPARATELY FROM SEEDING. STAIRWAY AND DOCK ACCESS ARE ANTICIPATED TO BE INSTALLED AT A LATER DATE. STAIRWAY PLANTINGS ARE RECOMMENDED NOT TO BE INSTALLED UNTIL STAIRWAY INSTALLATION IS COMPLETE.

ESTABLISHMENT & MAINTENANCE:

1. MONITOR ESTABLISHMENT AND PROVIDE 3 YEAR ESTABLISHMENT MAINTENANCE INCLUDING MONTHLY VISITS DURING GROWING SEASON (JUN- AUG, MIN 3X) TO PROVIDE HAND WEEDING, MOWING, AND HERBICIDE APPLICATION TO MANAGE WEEDS AND INVASIVE VEGETATION.
 - 1.1. IN YEAR 1, PROVIDE MOWING 2-3X WHEN VEGETATION REACHES A HEIGHT OF 12-18" TO MANAGE ANNUAL WEEDS. DO NOT ALLOW WEEDS TO SET SEED, WATER FEATURE PLANTING ALONG ACCESS STAIR AS NEEDED TO PROMOTE ESTABLISHMENT.
 - 1.2. IN YEAR 2, PROVIDE AQUATIC SAFE HERBICIDE SPOT TREATMENT FOR PERENNIAL WEEDS (2-3 VISITS, MOW SITE 1-2X).
 - 1.3. IN YEAR 3, PROVIDE SPOT MOWING AND SPOT HERBICIDE TREATMENTS TO CONTROL WEEDS, (MIN 3 VISITS)
 - 1.4. PROVIDE MAINTENANCE REPORTS FOR EACH VISIT.
2. HAND WEED IN FEATURE PLANTING AREAS ALONG SHORELINE ACCESS STAIRS AT EACH MAINTENANCE VISIT.
3. INSTALL RODENT/ GOOSE PROTECTION AS NECESSARY.

WARRANTY

1. WARRANTY PLANTED TREES, SHRUBS, AND PERENNIALS FOR 1 YEAR FOLLOWING SUBSTANTIAL COMPLETION.
2. WARRANTY SEEDED AREAS THROUGH THREE-YEAR ESTABLISHMENT PERIOD. REVIEW ANNUALLY FOR PROGRESS. AT END OF 3 YEAR PERIOD, RESEED & REPLANT AREAS THAT HAVE FAILED TO ESTABLISH (MIN, 80% COVERAGE REQUIRED).



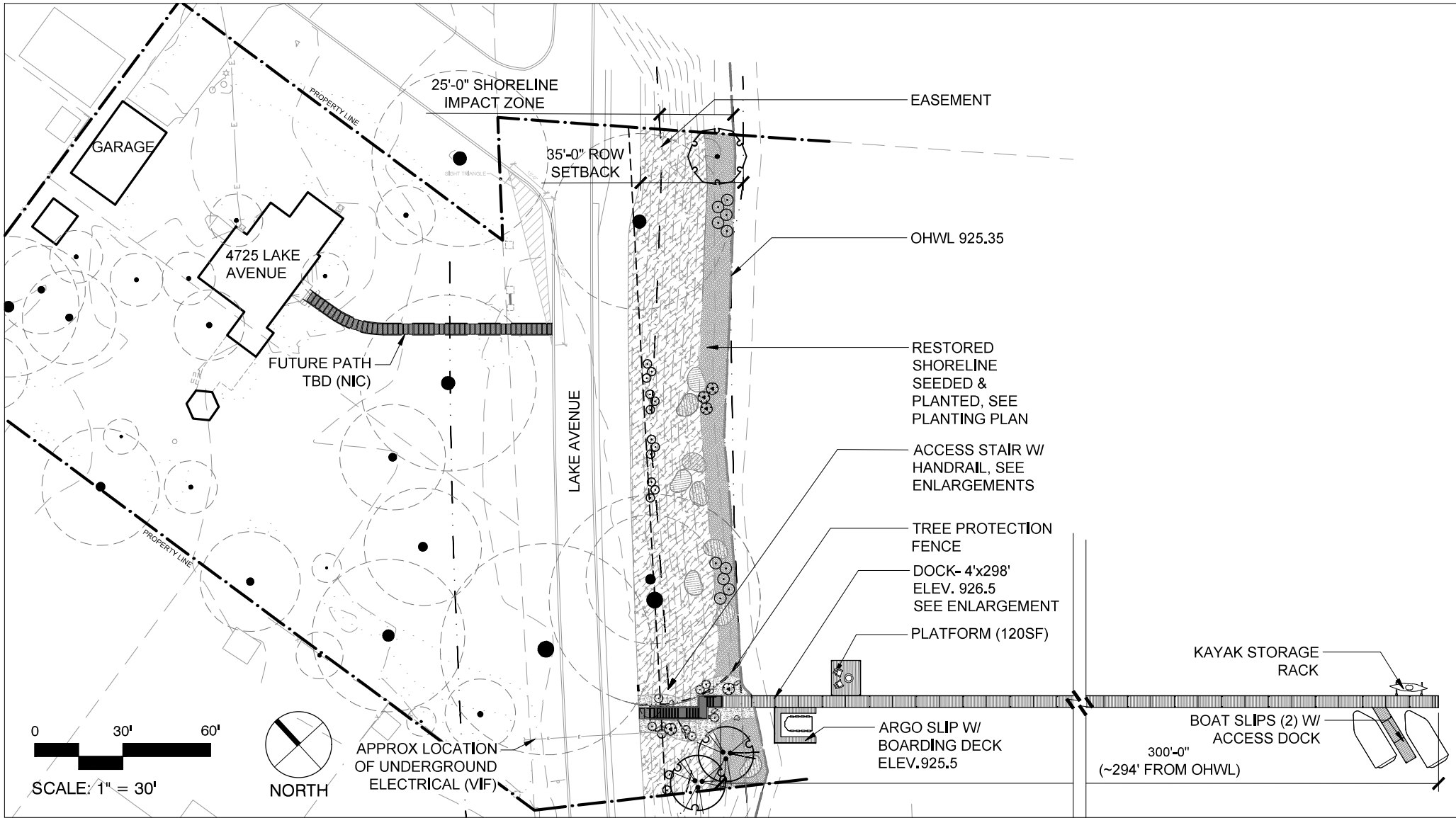
**DAMON FARBER
LANDSCAPE ARCHITECTS**
310 South 4th Avenue, Suite 7050
Minneapolis, MN 55415 p: 612.332.7522

OMMEN RESIDENCE- SHORELINE RESTORATION

4725 LAKE AVE
WHITE BEAR LAKE, MN
06/09/2023

GENERAL NOTES

L001



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 Minneapolis, MN 55415 p: 612.332.7522

OMMEN RESIDENCE- SHORELINE RESTORATION
 4725 LAKE AVE
 WHITE BEAR LAKE, MN
 06/09/2023

**SITE PLAN
 L100**

MATERIALS SCHEDULE

AMENITY

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	COMMENTS
AM-01	BOULDERS	8	18-30" DIA GLACIAL BOULDERS	REGIONAL SOURCE, SET ON COMPACTED GRADE, BURY BOTTOM 1/4 TO STABILIZE AND SECURE IN GRADE.

DECKING

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COMMENTS
DK-01	DECK TYPE 1	1,477 SF	ALUMINUM DOCK FRAME W/ COMPOSITE DECKING	SHOREMASTER	INFINITY RS7 OR EQ	OR EQ

EDGING

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	COLOR/FINISH
ED-01	EDGING TYPE 1	7 LF	3/16" STEEL EDGING STAKED IN PLACE	BLACK

FENCE & GUARDRAIL

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	COLOR/FINISH	COMMENTS
FE-01	SLAT SCREEN	25 LF	REMOVABLE ALUMINUM SLAT SCREEN, 6' HEIGHT	CUSTOM	POWDERCOAT BLACK	PANELIZED SCREEN AROUND ARGO SLIP- SUSPENDED FROM TO DOCK POSTS, COORD. W/ DOCK MFR

GATE

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	COLOR/FINISH	COMMENTS
GA-01	GATE TYPE 1	1	36" W X 4' HEIGHT DECORATIVE METAL GATE- FULL SWING, LOCKING	TBD	POWDERCOAT BLACK	GATE STYLE TO BE SELECTED

HANDRAIL

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	COLOR/FINISH	COMMENTS
HR-01	HANDRAIL TYPE 1	21 LF	2" X 1/2 STL HAND RAIL	CUSTOM	GALV. & POWDERCOAT	EMBEDDED

LIGHTING

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	PRODUCT/MODEL	COMMENTS
LT-01	INTEGRATED DOCK LIGHTING /		SOLAR LED LIGHT- FLUSH WITH DOCK SURFACE	SHOREMASTER SOLAR LIGHT OR SIM	COORD W/ DOCK MFR

PAVING






SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COMMENTS
P-01	PAVING TYPE 1	20 SF	LARGE FORMAT STONE PAVERS SET INTO AGGREGATE	REGIONAL SOURCE- ORIJIN STONE	18"X42"X 4" MIN THK STEPPERS, PEWTER LIMESTONE OR SIMILAR	COORD STONE STEPPERS W/ ST-01 AND HOUSE FINISHES



SITE FURNITURE

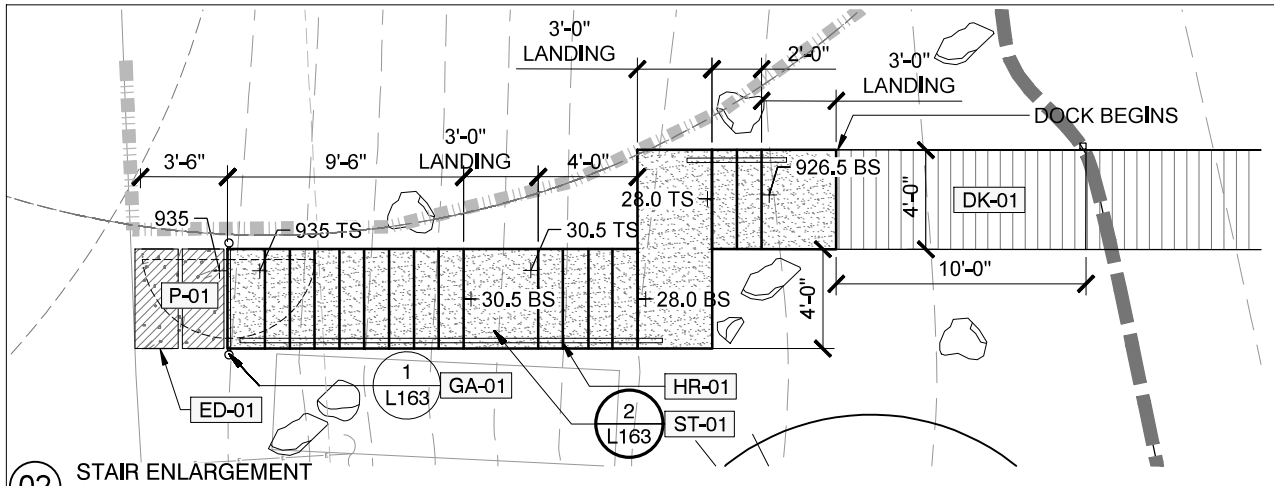
SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COMMENTS
SF-01	ADIRONDACK CHAIR		FLAT-BACK ADIRONDACK CHAIR	LOLL	ADIRONDACK - 3 SLAT TALL AD-3SFT	OWNER PROVIDED
SF-02	FIRE PIT	1	INTEGRATED DOCK FIRE PIT/ FIRE TABLE			COORD W/ DOCK MFR

STAIRS

SYMBOL	DESCRIPTION	QTY	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	COLOR/FINISH	COMMENTS
ST-01	STAIR TYPE 1	110 SF	6" X 18" X 48" STONE TREAD OVER COMPACTED BASE	REGIONAL SOURCE- ORIJIN STONE	PEWTER LIMESTONE OR SIMILAR; SAWN TOP, NATURAL CLEFT EDGES.	USE TREADS FOR LANDINGS, SEE DETAILS

PLANT SCHEDULE						
DECIDUOUS TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	
	BN	3	BETULA NIGRA 'CULLY' TM / HERITAGE RIVER BIRCH	8' HT. MULTI-STEM	B&B	
	QB	1	QUERCUS BICOLOR / SWAMP WHITE OAK	2.5' CAL.	B&B	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
	CR	10	CORNUS SERICEA / RED TWIG DOGWOOD	#5		48" o.c.
	SD	5	SAUX CANDIDA 'JEFBERG' TM / ICEBERG ALLEY SAGELEAF WILLOW	#2		48" o.c.
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
	BA	23	BAPTISIA AUSTRALIS / BLUE WILD INDIGO	#2		36" o.c.
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
		201 SF	PLUG ENHANCEMENT 1			
	AN	32	ASTER NOVAE-ANGLIAE / NEW ENGLAND ASTER	PLUG		33" @ 18" o.c.
	AO	32	ASTER OOLENTANGIENSIS / SKY BLUE ASTER	PLUG		33" @ 18" o.c.
	TO	32	TRADESCANTIA OHIENSIS / OHIO SPIDERWORT	PLUG		33" @ 18" o.c.
		322 SF	PLUG ENHANCEMENT 2			
	IV2	50	IRIS VERSICOLOR / BLUE FLAG	PLUG		33" @ 18" o.c.
	LC	50	LOBELIA CARDINALIS / CARDINAL FLOWER	PLUG		33" @ 18" o.c.
	VH	50	VERBENA HASTATA / BLUE VERVAIN	PLUG		33" @ 18" o.c.
		452 SF	NATIVE PERENNIAL PLANTING ZONE			
	AM	24	ACHILLEA MILLEFOLIUM / COMMON YARROW	1 GAL		5" @ 12" o.c.
	AF	6	AGASTACHE FOENICULUM / BLUE GIANT HYSSOP	1 GAL		5" @ 24" o.c.
	AG	6	ARONIA MELANOCARPA 'CONNAM012' / GROUND HUG® BLACK CHOKEBERRY	5 GAL		5" @ 24" o.c.
	EP	12	EUTROCHUM PURPUREUM / JOE PYE WEED	1 GAL		10" @ 24" o.c.
	GM	29	GERANIUM MACULATUM / SPOTTED GERANIUM	1 GAL		6" @ 12" o.c.
	GT	43	GEUM TRIFLORUM / PRAIRIE SMOKE	1 GAL		4" @ 8" o.c.
	HA	21	HELENIUM AUTUMNALE / SNEEZEWEED	1 GAL		10" @ 18" o.c.
	HR	11	HEUCHERA RICHARDSONII / PRAIRIE ALUM ROOT	1 GAL		9" @ 24" o.c.
	LG	21	LIATRIS PYCNOSTACHYA / GAYFEATHER	1 GAL		10" @ 18" o.c.
	SP	13	SYMPHYOTRICHUM NOVAE-ANGLIAE 'PURPLE DOME' / PURPLE DOME NEW ENGLAND ASTER	1 GAL		11" @ 24" o.c.
	ZA	15	ZEA AUREA / GOLDEN ALEXANDER	1 GAL		7" @ 18" o.c.

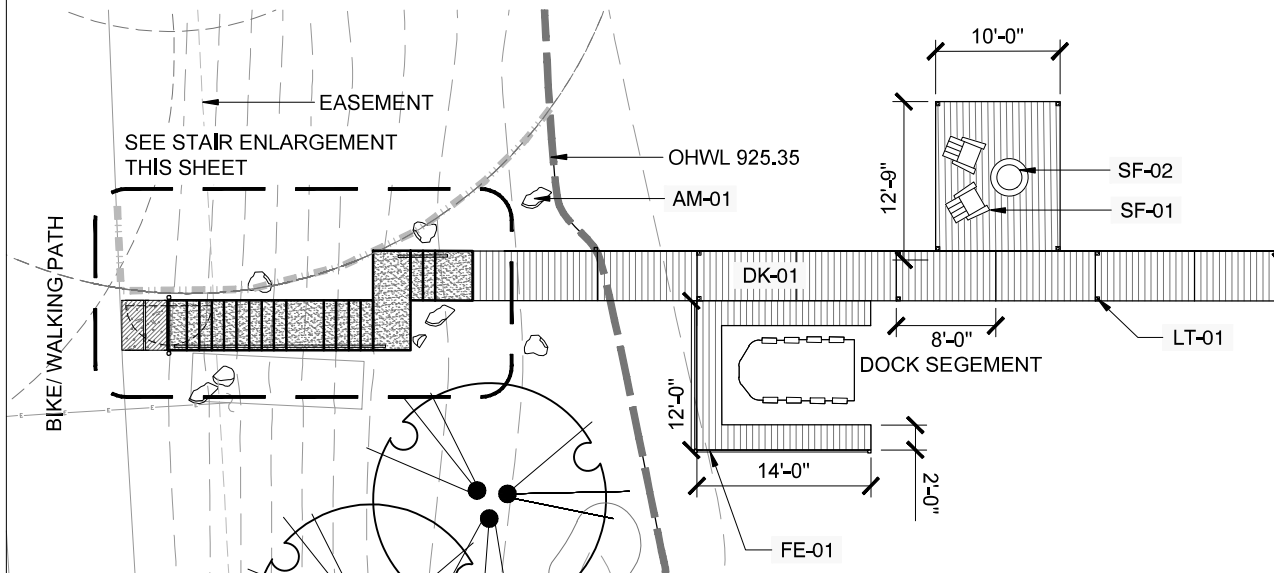
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
		1,492 SF	SEED MIX 1-WET POLLINATOR MIX			
		1,492 SF	-			
		5,077 SF	SEED MIX 2-MESIC PRAIRIE MIX			
		5,077 SF	-			



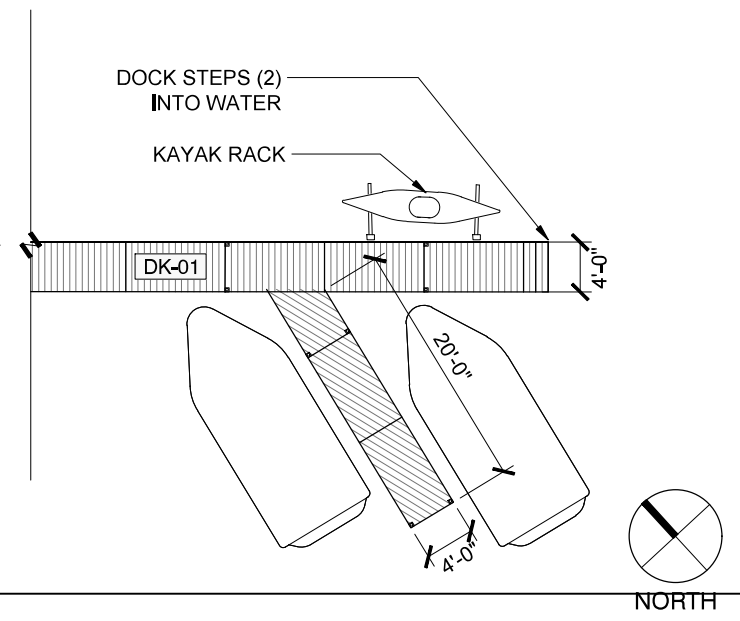
02 STAIR ENLARGEMENT
1" = 5'-0"

LEGEND

SYMBOL	DESCRIPTION
	BOULDERS
	DECK TYPE 1
	EDGING TYPE 1
	SLAT SCREEN
	GATE TYPE 1
	HANDRAIL TYPE 1
	HANDRAIL TYPE 1
	INTEGRATED DOCK LIGHTING
	PAVING TYPE 1
	ADIRONDACK CHAIR
	FIRE PIT
	STAIR TYPE 1



01 DOCK ENLARGEMENT
1" = 10'-0"



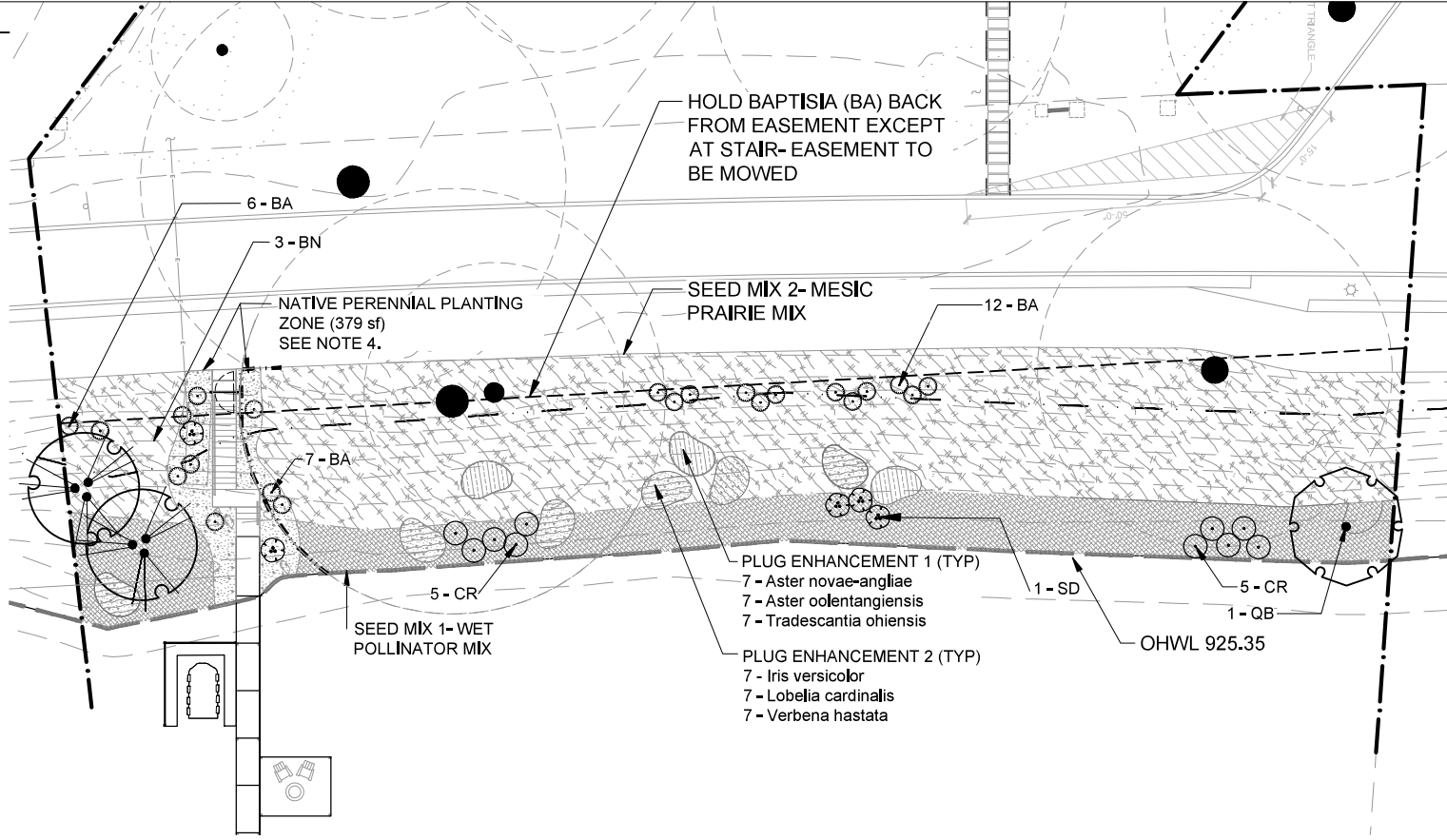
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4725 LAKE AVE
WHITE BEAR LAKE, MN
06/09/2023

ENLARGEMENTS
L110

LEGEND

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME
	BN	BETULA NIGRA 'CULLY' TM HERITAGE RIVER BIRCH
	QB	QUERCUS BICOLOR SWAMP WHITE OAK
SHRUBS	CODE	BOTANICAL / COMMON NAME
	CR	CORNUS SERICEA RED TWIG DOGWOOD
	SD	SALIX CANDIDA 'JEFBERG' TM ICEBERG ALLEY SAGELEAF WILLOW
PERENNIALS	CODE	BOTANICAL / COMMON NAME
	BA	BAPTISIA AUSTRALIS BLUE WILD INDIGO
SHRUB AREAS	CODE	BOTANICAL / COMMON NAME
	PLUG ENHANCEMENT 1:	
	AN	ASTER NOVAE-ANGLIAE NEW ENGLAND ASTER
	AO	ASTER OOLENTANGIENSIS SKY BLUE ASTER
	TO	TRADESCANTIA OHIENSIS OHIO SPIDERWORT
	PLUG ENHANCEMENT 2:	
	IR	IRIS VERSICOLOR BLUE FLAG
	LC	LOBELIA CARDINALIS CARDINAL FLOWER
	VH	VERBENA HASTATA BLUE VERVAIN
	NATIVE PERENNIAL PLANTING ZONE:	
	AM	ACHILLEA MILLEFOLIUM COMMON YARROW
	AF	AGASTACHE FOENICULUM BLUE GIANT HYSSOP
	AG	ARONIA MELANOCARPA 'UCONNAM012' GROUND HUG® BLACK CHOKEBERRY
	EP	EUTROCHUM PURPUREUM JOE PYE WEED
	GM	GERANIUM MACULATUM SPOTTED GERANIUM
	GT	GEUM TRIFLORUM PRAIRIE SMOKE
	HA	HELENIUM AUTUMNALE SNEEZEWEED
	HR	HEUCHERA RICHARDSONII PRAIRIE ALUM ROOT
	LG	LATRIS Pycnostachya GAY FEATHER
	SP	SYMPHYOTRICHUM NOVAE-ANGLIAE 'PURPLE DOME' PURPLE DOME NEW ENGLAND ASTER
	ZA	ZIZIA AUREA GOLDEN ALEXANDER
GROUND COVERS	CODE	BOTANICAL / COMMON NAME
		SEED MIX 1- WET POLLINATOR MIX SHOOTING STAR NATIVE SEED MIX
		SEED MIX 2- MESIC PRAIRIE MIX SHOOTING STAR NATIVE SEED MIX



HOLD BAPTISIA (BA) BACK FROM EASEMENT EXCEPT AT STAIR- EASEMENT TO BE MOWED

NATIVE PERENNIAL PLANTING ZONE (379 sf) SEE NOTE 4.

SEED MIX 2- MESIC PRAIRIE MIX

PLUG ENHANCEMENT 1 (TYP)
7 - Aster novae-angliae
7 - Aster oolentangiensis
7 - Tradescantia ohiensis

PLUG ENHANCEMENT 2 (TYP)
7 - Iris versicolor
7 - Lobelia cardinalis
7 - Verbena hastata

SEED MIX 1- WET POLLINATOR MIX

NOTES:

1. REFER TO L001 FOR SITE PREPARATION, SEEDING, AND PLANTING NOTES.
2. PROVIDE CATEGORY 20 EROSION CONTROL BLANKET AT SEEDED AREAS, CATEGORY 37 (COIR, OPEN WEAVE) BLANKET AT NATIVE PERENNIAL PLANTED AREA ALONG STAIRCASE.
3. STAKE TREE LOCATIONS IN FIELD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
4. NATIVE PERENNIAL LAYOUT TO BE PROVIDED IN FIELD AND REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT. ARRANGE SPECIES BASED ON HEIGHT, MOISTURE TOLERANCE, AND AESTHETIC COMPOSITION (FORM, TEXTURE, AND SEASONALITY), PLACE SPECIES IN MASSES OF 3-5 FOR MAXIMUM LEGIBILITY.
5. SEE PLANT SCHEDULES FOR PLANT QUANTITIES, SIZES, AND SEEDING RATES.



SCALE: 1" = 20'



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OMMEN RESIDENCE- SHORELINE RESTORATION
4725 LAKE AVE
WHITE BEAR LAKE, MN
06/09/2023

PLANTING PLAN
L140

ALL ITEMS AS SPECIFIED BELOW ARE FOR REFERENCE USE ONLY

Ommen Residence
 4725 Lake Ave
 White Bear Lake, MN 55110
 BMP Type: Shoreline Restoration
 Number of BMPs: 1

County: Ramsey
 Date: 7-Jul-23

MATERIALS

Item	Qty	Unit	Unit Cost	Amount
Site Prep (removal of existing vegetation - 1-2 water safe herbicide application, etc.)	1.00	LS	\$ 4,000.00	\$ 4,000.00
Native Seed Mix & Installation	1.00	LS	\$ 1,100.00	\$ 1,100.00
EC Blanket: CM4000, Bio D Mat 60, Cocomat 600, or equal (6.5' x 165')	5,000.00	SF	\$ 0.85	\$ 4,250.00
Sediment Control - Floating Silt Curtain or approved equivalent	240.00	LF	\$ 10.00	\$ 2,400.00
Native Plant: 2" Plug or equal	321.00	EA	\$ 6.00	\$ 1,926.00
Native Plant: 1 Gallon or equal	189.00	EA	\$ 16.00	\$ 3,024.00
Native Shrub: 2 Gallon or equal	21.00	EA	\$ 75.00	\$ 1,575.00
Native Tree: 10 Gallon or equal	4.00	EA	\$ 725.00	\$ 2,900.00
Mobilization	1.00	LS	\$ 2,000.00	\$ 2,000.00
Professional Maintenance Services - Year 1	1.00	LS	\$ 1,400.00	\$ 1,400.00
Professional Maintenance Services - Year 2	1.00	LS	\$ 1,800.00	\$ 1,800.00
Professional Maintenance Services - Year 3	1.00	LS	\$ 1,950.00	\$ 1,950.00
			Subtotal	\$ 23,225.00

ADD/DEDUCT BID ITEMS (AS NECESSARY)

1]		\$	-	\$	-
2]		\$	-	\$	-
3]		\$	-	\$	-
4]		\$	-	\$	-
5]		\$	-	\$	-
6]		\$	-	\$	-
			Subtotal	\$	-

PROJECT TOTAL

Project Estimate	\$	23,225.00
:-10%	\$	20,902.50
:+10%	\$	25,547.50
Estimated WD/WMO Grant Award:		\$7,500.00
Potential Grant Award Total:		\$7,500.00
Estimated Landowner Cost:		\$15,725.00

Soil & Water Conservation Division
 1425 Paul Kirkwold Drive
 Arden Hills, MN 55112
www.ramseycounty.us



Ommen Shoreline Restoration

Client Ommen Residence: Damonfarber, Jodi Refsland
 Email jrefsland@damonfarber.com
 Phone 612.281.1355
 Address
 Project Location 4725 Lake Ave, White Bear Lake, MN

Project Manager Contact Caroline Fazzio, Restoration Ecologist
 caroline.fazzio@nrp.eco
 715-307-8520
 260 Wentworth Ave E, Ste 155, West St Pau, MN 55118
 www.nrp.eco

Quote Date	5/17/2023
Quote Expiration	8/15/2023

Quote

Task #	Year	Timeline	Service	Unit	Est. Qty.	Cost/Unit (\$)	Total
1	2023	Summer/Fall	Site Prep: Herbicide Application	/visit	2	360	\$720.00
2	2023	Fall	Site Prep: Vegetation Removal and Grubbing	lump sum	1	720	\$720.00
3	2023	Fall	Seeding	lump sum	1	250	\$250.00
4			Seed Mixes	lump sum	1	400	\$400.00
5	2023	Fall	Erosion Netting	/sy	556	3.5	\$1,946.00
6	2023/24	Fall/Spring	Plugs	/plug	321	6	\$1,926.00
7	2023/24	Fall/Spring	Gallon Pots (#1 & #2)	/plant	189	21	\$3,969.00
8	2023/24	Fall/Spring	Shrubs	/shrub	21	80	\$1,680.00
9	2023/24	Fall/Spring	Trees (includes water bags)	/tree	4	850	\$3,400.00
10	2024	Summer	Weekly Watering	/visit	16	105	\$1,680.00
11	2024	Summer	Establishment Mowing: Maintenance Y1	/visit	4	300	\$1,200.00
12	2025	Summer	Spot Treatment: Maintenance Y2	/visit	4	430	\$1,720.00
13	2026	Summer	Spot Treatment: Maintenance Y3	/visit	4	430	\$1,720.00
Project Total							\$21,331.00
Sales Tax							7.625%
Final Total							\$22,957.49

Notes and Special Conditions

***All of our line item tasks additionally include:**

- Liability insurance and workers comp insurance
- Mid-project monitoring and project work reports
- Mobilization, fuel, and equipment
- All plant costs include: planting, materials, delivery, warranty
- Tree planting is cost out assuming the access of a skid steer to the lower part of the hill to auger holes. Our skid steers utilize tracks with low psi; everything else assumes ground crew labor without heavy equipment

*There is no sales tax charged on projects that have grant funding

Sign to Accept Quote

Accepted by (Signature) _____ Date _____ Preferred Method of Contact During Project _____

Authorized by (Project Manager Signature) _____ Date _____

By signing, you accept our:	Terms and Conditions (click link below) https://www.nativeresourcepreservation.com/terms-and-conditions	Notice of Cancellation (click link below) https://www.nativeresourcepreservation.com/notice-of-cancellation
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Billing

Unless otherwise agreed upon, service items are charged individually upon completion. Invoices are due upon receipt. A 5% late charge may be applied after 30 days, at NRP's discretion.

Downpayments

NRP will require a 10% down payment for any line items totaling over \$30,000 USD

Accepted Payment Options

1. ACH Secure Direct Deposit
2. Check
3. Credit Card*

* Credit cards will be charged a 3.5% upcharge to cover transaction fees.

Additional Notes

Project Scheduling

Due to the nature of our work and the unpredictability of weather, scheduling more than 2 weeks in advance is extremely difficult. When feasible, NRP will give clients a 2-week window for work, and 24-48 hours notice of a crew being onsite. Notice may be given through either email or phone communication.

By signing, the client acknowledges that they understand NRP's scheduling process as outlined here.

Notice of Recording for Marketing Purposes

NRP may utilize photos, videos, and written descriptions of this project for education and marketing purposes. No identifying material will be used. Please inform your project manager if you wish to opt out.

Vegetation Removal

NRP cannot remove vegetation that we deem unsafe or at risk of damaging property or utility lines. We also cannot climb trees for removal or trimming. NRP reserves the right to refuse to remove any material determined to be unsafe or outside the scope of our ability.

Utility Line Marking

NRP reserves the right to contact Gopher One State and have utility locate inspectors enter the site to mark buried utility lines. We will inform the client ahead of time if this is the case. NRP may refuse to complete any digging or excavation work if utility locate surveyors are denied access to the property.

About NRP

Native Resource Preservation LLC (NRP) was founded in 2014 with the mission of restoring native landscapes without compromising ecological standards and existing remnant habitats. Since our founding, we have completed ecological restoration and habitat enhancement projects throughout Minnesota and the Midwest according to our Light on the Land ethic. For our company's first few years, we were selective with our clients and kept our crews small in order to maintain the lasting standard of this Light on the Land ethic and the meticulous groundwork that comes with it. However, our client network quickly began requesting that we undertake more work and larger projects. Therefore, in 2016, due to client demand, we started taking on more clients and growing to meet the demand for excellent land management work.

We have a diverse array of over 200 clients including local, state, and federal agencies, private homeowners, non-profits, and engineering firms. Our projects range from 1-acre backyards to 100-acre public lands, and single visit consultations to multi-year management plans. We believe that everyone has a role in conserving natural resources and native habitats, and we take a lot of pride in assisting our local and rural communities with their restoration goals.

Our team consists of over 25 natural resource professionals spread across two locations. Led by industry experts with over 10 years of experience, our team combines a unique mix of experience, background, interest, and education. Despite our veteran leadership, we are also committed to providing opportunities for emerging professionals to gain experience and bring new ideas and passion to our work.

Our Light on the Land Ethic

It has been the matchless product standard of our Light on the Land ethic that has led not only to our success as a team, but the success of our clients and their land. It is this standard that we refuse to compromise, and this land ethic that sets NRP apart.

Light on the Land is an approach to land management and restoration that recognizes the need to conserve natural resources and restore native habitats without further damaging existing native communities and ecosystems. Therefore, we aim to be as non-intensive in our techniques as possible. This means more boots-on-the-ground work with light equipment, safe herbicide use, and minimal disruption of existing soil and native vegetation. When projects require the use of heavy machinery, all of our equipment has been designed to provide minimal compressive impact on the soil with industry low psi, and our operators are trained to avoid ground rutting and tearing whenever possible. This requires extra work and planning, but we believe it is worth it.

Your business helps in the preservation of our ecological communities, and broadens our faith that humans as a collective are willing to help restore and protect our native resources. Thank you.



Restoration Proposal for:

Jeri and Gordon Ommen
4725 Lake Avenue
White Bear Lake, MN

Proposal Date: June 7, 2023

Prepared by:

Bill Bartodziej M.S., Senior Restoration Ecologist
Natural Shore Technologies, Inc.
612.730.1542 bill.b@naturalshore.com





USING ECOLOGY TO RESTORE LAND AND WATER

612.703.7581 | naturalshore.com | Office & Nursery 1480 County Rd 90 Independence, MN 55359

June 7, 2023

Dear Jeri and Gordon:

It was a real pleasure meeting with you. Thank you again for giving Natural Shore Technologies the opportunity to bid on your project. Below is a *Project Summary* which outlines our *restoration methods* and *cost breakdown*. We would like to emphasize that we tailor our restoration approach to fit your site characteristics and specific objectives. We look forward to developing a partnership with you to produce an exceptional restoration that exceeds your expectations.

We would enjoy the chance to answer any questions that you have regarding this restoration proposal. We take great pride in our reputation and attention to customer satisfaction. After you have read through and are comfortable with the proposed plan and specified cost, please sign the contract that is provided. A down payment and a signed contract are required to book your project.

Best regards,

Bill Bartodziej, M.S.
Senior Restoration Ecologist, Natural Shore Technologies, Inc.

Project Summary

1. Project site: shoreland – site details provided in plan
2. Site assessment and plan development include: detailed site preparation methods, plant selection, and a project timeline and work schedule for our staff. Because most of projects involve the establishment of natural buffers, site drawings and planting plans are not necessary. We have found that over time, native plants will seek out the optimal micro-habitats and flourish.
3. Delineate and verify total restoration project area.
4. Kill invasive weeds with an herbicide appropriate for upland or aquatic use. A licensed herbicide applicator from Natural Shore Technologies will apply the treatment.
5. Invasive woody vegetation will be cut and then stump treated.
6. The day lilies will be hand dug and removed from the site.
7. Cut all dead weedy plant material from planting area. Rake and remove all thatch from the site. Expose bare soil but will limit disturbance as much as possible.
8. Broadcast custom native grass seed mix (@ 15 lb/ac) and cover crop.
9. Cover with 1-2" clean compost soil mix over the entire slope area. (We are using this approach so that we do not significantly disturb the native soils on the slope. If we do any sort of harrowing, we will get a substantial weed seed germination. This is an effective way to deal with the weedy seedbank. This will also increase the native seed germination.)
10. Apply NAG SC-150BN erosion control blanket immediately after the soil placement.
11. Once the native grasses are established, overseeding with upland and wetland/shore seed (forb) mixes and forb planting will take place (per plan provided).
12. Site monitoring will be conducted and appropriate maintenance will be provided through October, 2024.

Installation note: Prior to installation, please let us know of any underground utility lines, sprinkler lines, or other obstacles in the restoration area. It is the owner responsibility to clearly mark lines, and NST will not be held liable for any damages.

Preliminary Native Grass Species List

Grasses, Sedges

Side Oats Grama	<i>Bouteloua curtipendula</i>	1.5 to 2.5	Red-green	July - September	S PS
Blue Grama	<i>Bouteloua gracilis</i>	.5 to 1	Green-purple	July-September	S PS
Plains oval sedge	<i>Carex brevior</i>	1 to 2	Green	June-July	S PS Sh
Canada Wild Rye	<i>Elymus canadensis</i>	3 to 4	Green	July - August	S PS
June grass	<i>Koeleria macrantha</i>	1 to 2	Amber	May-June	S
Little Bluestem	<i>Schizachyrium scoparium</i>	1.5 to 3	Amber	July - September	S PS
Indian Grass	<i>Sorghastrum nutans</i>	4 to 6	Amber	July - September	S PS
Prairie Dropseed	<i>Sporobolus heterolepis</i>	1.5 to 3	Green	August - October	S PS

Project Cost

This bid includes project design and management, all materials, labor, and a two-year maintenance plan. This is a comprehensive bid estimate and valid for thirty days. We require a 50% down payment to schedule your project.

Cost Breakdown

Site Design, Project Management, Mobilization		\$2,520.00
Site preparation, herb. trts, clearing, hauling, soil, fine grading		\$7,304.00
Erosion Control - installed - NAG SC150BN		\$3,525.00
Custom native grass seed mix and cover crop		\$495.00
Forb seed mixes, trees, shrubs, prairie plants per plan (535)		\$12,110.00
Maintenance Plan - 3 visits - 2023		\$700.00
Maintenance Plan - 5 visits - 2024		\$1,750.00
TOTAL =		\$28,404.00

Site maintenance

Site maintenance includes at least 5 visits per year during the growing season to monitor and conduct activities that will ensure proper restoration establishment. We use the most appropriate, up-to-date maintenance techniques such as targeted herbicide application, hand pulling, mowing, and spot weed whipping to effectively control invasive weeds. Our lead maintenance supervisor has a B.S. in Biology and 10 years of field experience.

Watering – We will thoroughly water your site immediately after plant installation. Any necessary watering after installation is the responsibility of the owner. (Generally, normal rainfall during the growing season is adequate for native plant establishment.)

****Note we do offer long-term maintenance contracts. Over 90% of our clients use that service.***

Staff Qualifications

Our company has over 50 years of combined ecological restoration experience. We are a local company that focuses on quality ecological restoration in the Metro area. Our clients vary from private estates on Lake Minnetonka, to large corporate headquarters in Eden Prairie. We also work with many city and county governments and watershed management organizations. We are fully insured.

Our specialty is lakeshore and wetland restoration. We have restored many miles of lakeshore in Minnesota, more than any other company. Please see our portfolio for examples of our restoration projects that include; shorelines, wetlands, prairies, savannas, and rain gardens.

Please see our *project photo book* at: <http://www.blurb.com/books/6034090-natural-shore-technologies-inc-photobook>

Natural Shore Technologies Plant Material

We have commercial and retail greenhouses in Maple Plain. Our plants are Minnesota native perennials that will flourish year after year. Utilizing our own plant material in our projects assure quality control. Our wetland and prairie plants are guaranteed to establish during the first growing season. Perennial plants put most of their energy into establishing root systems so please keep in mind that the first year of growth will be mainly underground. You will see some flowering the first year, but significantly more flowering during the second year of establishment.

Information about our *retail native plant greenhouses* located in Maple Plain is also available at: www.naturalshore.com



Using Ecology to Restore Land and Water

Guarantee

We stand by our native plant material and our ecological restoration services.

Native plants that we install are guaranteed to establish during the first growing season. Any plant material that does not make it through the first growing season will be replaced at no charge to the client.

On projects that we install and manage, we will guarantee successful establishment of your ecological restoration within three full growing seasons. This proposal provides a plan for accomplishing the restoration of the project site. If successful establishment does not occur within three growing seasons, all necessary steps will be taken to ensure the eventual success of the project, at no additional charge. For purposes of this guarantee, successful establishment is defined as follows: That the presence of at least 80% of the original seeded or planted species can be found on the site, and that the overall density of vegetation is comprised of no less than 80% native species.

The only exceptions to this guarantee have to do with plant death due to acts of God (floods or drought) the actions of others (vandalism), or animal herbivory (e.g., geese, muskrats). Watering by the owner during dry periods is necessary, and the lack of adequate watering in this circumstance may nullify this guarantee.

If these extreme circumstances do happen to occur, we will work with the client at a reduced rate to make all necessary repairs.

Our goal will always be to create successful, long-term partnerships with our clients. Our guarantee is the best in the business, and provides you with a clear understanding that we are here to fully support your ecological restoration endeavor.

Contract

- A down payment of \$14,202.00 is required to schedule your project.
- The remainder of the project cost is due at project completion. Any unpaid amount beyond the 30 day period after billing will incur a 3% monthly finance charge.
- *Please note that this proposal is valid for 30 days from the date on this Contract.*

If you would like to proceed with the above outlined project, please sign the contract below.

Client name: _____

Contract Value: \$28,404.00

Signed: _____

Date _____

Contractor: **Natural Shore Technologies, Inc.**

Signed:

Contract Date: Contract Date for 30 Day term



William M. Bartodziej, M.S.

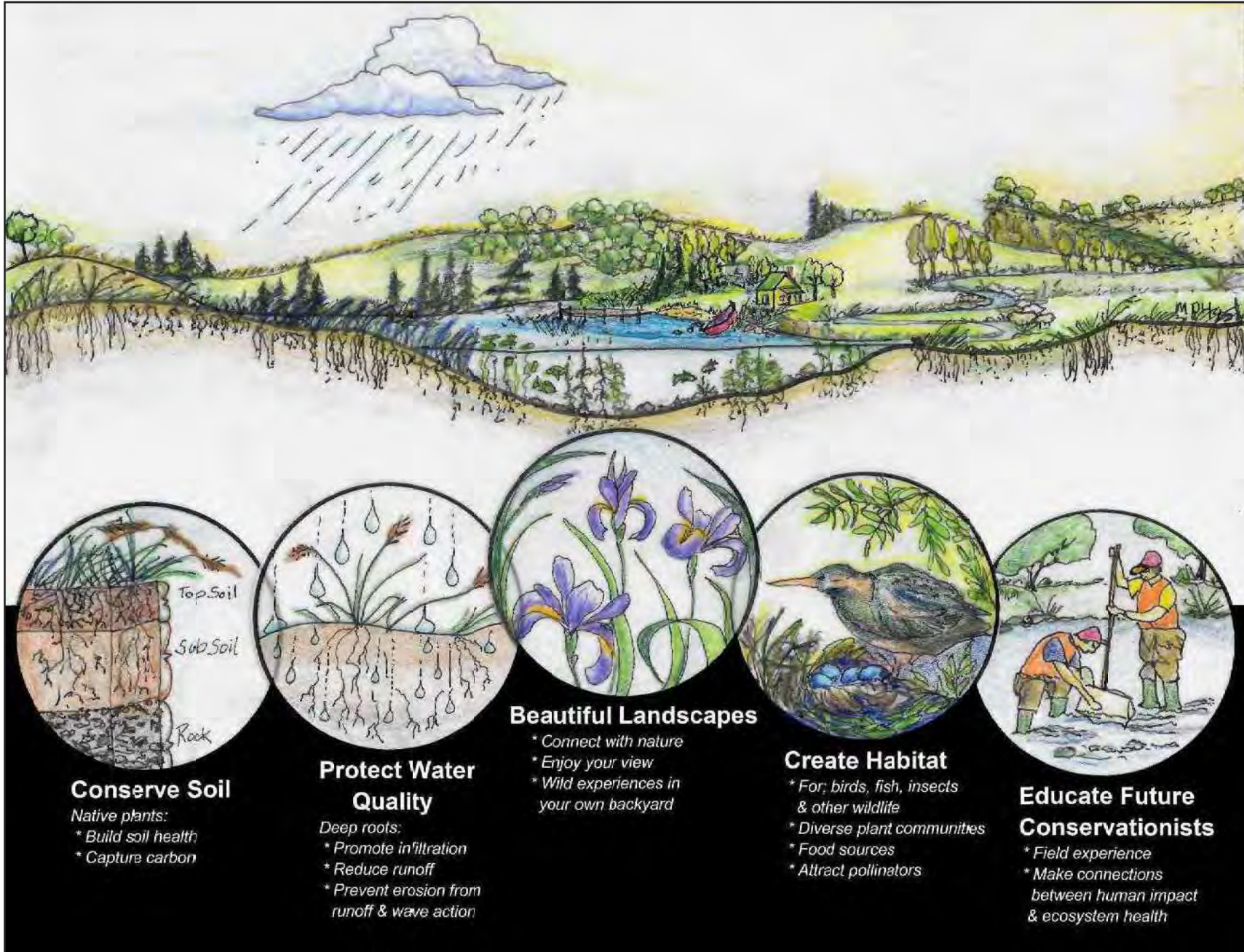
Senior Restoration Ecologist, Natural Shore Technologies

Please return a signed copy of this contract and a check to:

Natural Shore Technologies, Inc.
6275 Pagenkopf Rd.
Maple Plain, MN 55359



Benefits of our quality restoration work.



Conserve Soil

- Native plants:*
- * Build soil health
 - * Capture carbon



Protect Water Quality

- Deep roots:*
- * Promote infiltration
 - * Reduce runoff
 - * Prevent erosion from runoff & wave action



Beautiful Landscapes

- * Connect with nature
- * Enjoy your view
- * Wild experiences in your own backyard



Create Habitat

- * For: birds, fish, insects & other wildlife
- * Diverse plant communities
- * Food sources
- * Attract pollinators



Educate Future Conservationists

- * Field experience
- * Make connections between human impact & ecosystem health

ITEMS REQUIRING BOARD ACTION

1. US Sitework, Inc. Partial Pay Request #7 Anoka County Ditch 53-62 Main Trunk Repair Project (Ashlee Ricci)

MEMORANDUM
Rice Creek Watershed District



Date: August 1, 2023
To: RCWD Board of Managers
From: Ashlee Ricci, Public Drainage Inspector
Subject: US Sitework, Inc. Partial Pay Request #7 - Anoka County Ditch 53-62 Main Trunk Repair

Introduction

The Board is being asked to consider approval of the seventh partial pay request from US Sitework, Inc. for the Anoka County Ditch (ACD) 53-62 Main Trunk Repair.

Background

In the last two months, the contractor has performed multiple tasks including tree clearing, channel excavation, spoil spreading, and the extension and stabilization of city stormwater outfalls (City staff were notified and observed and/or inspected the work on the City’s outfalls). All work has been certified by the District Engineer (attached).

Partial payment #7 totals \$209,583.92. The Watershed Management Plan describes the development and purpose of the ACD 53-62 Water Management District (WMD). Per Board resolution 2021-19, costs of the repair are to be allocated between the WMD at 60 percent (\$125,750.35) and the District as a whole (ad valorem) at 40 percent (\$83,833.57).

Staff concurs with the District Engineer’s recommendation that the pay request is accurate and ready for approval. RCWD will hold a 5% retainage on this contract.

Staff Recommendation

District staff recommends that \$209,583.92 be issued to US Sitework, Inc. as detailed in Partial Payment #7.

Proposed Motion: Manager _____ moves to approve US Sitework, Inc.’s pay request #7 as submitted and certified by the District Engineer and directs staff to issue a payment in the amount of \$209,583.92, seconded by Manager _____.

Attachments

HEI Technical Memorandum (08-01-2023)
Partial Payment Documentation

Technical Memorandum

To: Nick Tomczik, RCWD
Ashlee Ricci, RCWD
From: Chris Otterness, PE
Subject: ACD 53-62 Main Trunk Repair Project Partial Payment #7
Date: August 1, 2023
Project: 5555-0255

The purpose of this memorandum is to recommend Partial Payment #7 to US SiteWork, Inc. for the ACD 53-62 Main Trunk Repair Project.

Project Update

In the last 2 months, the contractor has performed multiple tasks including tree clearing, excavation of existing channel, spreading and smoothing of spoils, extending and stabilizing stormwater outfalls and hauling and placing in disposal areas. The only remaining items are erosion control blanket and seeding.

Payment Application Review

We have reviewed the materials submitted by US SiteWork, Inc.. We have verified the items for which payment have been requested have been completed.

The following is a summary of payment:

Work Completed to Date:	\$ 371,760.90
Less 5% retainage:	\$ 18,588.05
<u>Less previous payments:</u>	<u>\$ 143,588.94</u>
Pay Request for this estimate:	\$ 209,583.92

A detailed summary of work completed and partial payment certification are attached.

Recommendation

We recommend authorization of Partial Payment #7 in the amount of \$209,583.92 to US SiteWork Inc. for work completed under this pay request.

PARTIAL PAYMENT CERTIFICATION

OWNER: Rice Creek Watershed District
ENGINEER: Houston Engineering Inc.

PROJECT: ACD 53-62 Main Trunk Repair Project
CONTRACTOR: US SiteWork, Inc.

PARTIAL PAYMENT: #7
PERIOD OF ESTIMATE: 6/1/23 – 7/31/23

CONTRACT CHANGE ORDER SUMMARY		
No.	Deduction	Additions
001		\$ 2,898.90
002		\$15,438.00
003		\$0.00
004		\$0.00
005		\$7,800.00
	Net Change to Contract	\$26,136.90

CONTRACT TIME:

Original Days: 422

Revisions: 1

Days Remaining: 3 (substantial completion)

On Schedule (y/n): Y

Starting Date: May 26, 2022

Substantial Completion: August 4, 2023

Projected Completion: October 1, 2023

ESTIMATE	
Original Contract Amount.....	\$ 370,782.40
Change Orders.....	\$ 26,136.90
Revised Contract Amount.....	\$ 396,919.30
Completed to Date Amount.....	\$ 371,760.90
Materials On-Site.....	\$ 0
Subtotal.....	\$ 371,760.90
Retainage.....	\$ 18,588.05
Previous Payments.....	\$ 143,588.94
Amount Due This Payment.....	\$ 209,583.92
(see attached breakdown)	

CONTRACTOR'S CERTIFICATION

The undersigned Contractor certifies that to the best of their knowledge, information and belief, the work covered by this payment estimate has been completed in accordance with the contract documents, that all amounts have been paid by the Contractor for work for which previous payment estimates were issued and for which payments were received from the Owner, and that current payment shown herein is now due.

RELEASE OF CLAIMS AND WAIVER OF LIEN: NOW THEREFORE, upon receipt of the above payment amount, the undersigned does hereby irrevocably releases and waives any and all claims for payment of any type for any work up through and including the date of this application, and irrevocably releases and waives all bond claims, construction liens, mechanic's liens, and/or other liens, or right to claim any against the above project or any part thereof.

Contractor: US SiteWork, Inc

By: 

Date: 8/1/2023

ENGINEER'S CERTIFICATION

The undersigned certifies that the work has been carefully inspected and to the best of their knowledge and belief, the quantities shown in this estimate are correct and the work has been performed in accordance with the contract documents.

Engineer: Houston Engineering, Inc.

By: 

Date: 8/1/2023

OWNER'S APPROVAL

Owner: Rice Creek Watershed District

By: _____

Date: _____

ACD 53-62 Main Trunk Repair Project
 Partial Payment #7
 8/1/2023

Item Code	Item Description	Units	Unit Price	Contract		Completed to Date		% Completed
				Quantity	Extension	Quantity	Extension	
1	Mobilization	LS	\$58,280.00	1	\$58,280.00	0.9	\$52,452.00	90%
2	Traffic Control	LS	\$1,515.00	1	\$1,515.00	1	\$1,515.00	100%
3	Temporary and Permanent Removals	LS	\$1,650.00	1	\$1,650.00	1	\$1,650.00	100%
4	Tree Clearing (P)	Acre	\$14,300.00	6.6	\$94,380.00	6.6	\$94,380.00	100%
5	Excavation of Existing Channel (P)	Ln Ft	\$6.00	5850	\$35,100.00	5850	\$35,100.00	100%
6	Spreading and Smoothing of Spoils (P)	Ln Ft	\$10.00	4150	\$41,500.00	4150	\$41,500.00	100%
7	Excavation of Access Ramp (CV) (P)	Cu Yd	\$5.00	1400	\$7,000.00	1400	\$7,000.00	100%
8	Haul and Place in Disposal Area (LV) (P)	Cu Yd	\$18.00	2870	\$51,660.00	2870	\$51,660.00	100%
9	Curb and Gutter, Design D	Ln Ft	\$65.00	60	\$3,900.00	32	\$2,080.00	53%
10	SWPPP Documentation & Reporting	LS	\$4,500.00	1	\$4,500.00	0.9	\$4,050.00	90%
11	Seeding and Mulch (P)	Acre	\$2,300.00	6.6	\$15,180.00	1.5	\$3,450.00	23%
12	Silt Fence, Type PA	Ln Ft	\$2.70	712	\$1,922.40	560	\$1,512.00	79%
13	Erosion Control Blanket Cat. 3	Sq Yd	\$1.20	4100	\$4,920.00	0	\$0.00	0%
14	Rock Construction Entrance	Ea	\$2,575.00	1	\$2,575.00	1	\$2,575.00	100%
15	Extend and Stabilize Stormwater Outfall	Ea	\$21,550.00	2	\$43,100.00	2	\$43,100.00	100%
16	Clay Borrow (P)	Cu Yd	\$90.00	12	\$1,080.00	12	\$1,080.00	100%
17	Topsoil (P)	Cu Yd	\$60.00	17	\$1,020.00	17	\$1,020.00	100%
18	Remove and Seal Stormwater Outfall	Ea	\$1,500.00	1	\$1,500.00	1	\$1,500.00	100%
19	Change Order 1	LS	\$2,898.90	1	\$2,898.90	1	\$2,898.90	100%
20	Change Order 2	LS	\$15,438.00	1	\$15,438.00	1	\$15,438.00	100%
21	Change Order 5	LS	\$7,800.00	1	\$7,800.00	1	\$7,800.00	100%
TOTAL					\$396,919.30		\$371,760.90	

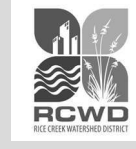
Retainage 5%	\$18,588.05
Previous Payments	\$143,588.94
TOTAL DUE	\$209,583.92

ITEMS REQUIRING BOARD ACTION

2. Public Drainage System Maintenance – Judicial Ditch 5
Drain Tile Replacement (Ashlee Ricci)

MEMORANDUM

Rice Creek Watershed District



Date: July 31, 2023
To: RCWD Board of Managers
From: Ashlee Ricci, Public Drainage Inspector
Subject: Public Drainage System Maintenance – Judicial Ditch 5 Drain Tile Replacement

Introduction

The Board is being asked to consider the following work plan estimate and delegation of execution to the District administrator, in accordance with Resolution 2023-04 and subject to the maintenance program budget.

Background

The Rice Creek Watershed District (District), as drainage authority, is responsible to inspect and maintain the public drainage systems (Systems) within its boundary. The District has successfully utilized contracted services agreements as day-labor contracts with various local contractors in the past to complete both planned and unforeseen minor maintenance of Systems.

The Board reviewed and concurred in the use of the contracted services agreements for 2023, as they may be modified on advice of counsel, further delegating to the administrator the ability to execute individual work orders under these agreements in an amount not to exceed \$10,000 per work order and subject to the maintenance program budgets. This delegation did not clarify if the Board President could approve a certain dollar amount because it preceded the Board Resolution 2023-04. To remain consistent with Board actions, the contracted services work orders should be executed in accordance with Resolution 2023-04.

In 2019, the Board directed Houston Engineering, Inc. (HEI) to draft a repair report summarizing repair alternatives for the drain tile system, Judicial Ditch (JD) 5, in Forest Lake. The finalized JD 5 Repair Report dated January 7, 2021 recommended that the repair of the system be executed in multiple phases under the public drainage minor maintenance program. Attached is an overview map of the phases, as well as maps of the individual phases. Since work began in 2021, Phases 3-5, and 7 have been completed. The focus of 2023 maintenance is Phases 1, 2, and 6.

Due to the continued drought conditions, there is an opportunity to more easily access and work on this system, completing additional phases in a single year. The effort to replace larger portions of the drain tile system is more economical and attainable because of these dry conditions. The cost of work on JD 5 is higher than most other RCWD public drainage system maintenance activities because it is a drain tile system located in unique site conditions. The cost of materials, labor, and equipment is anticipated to be approximately \$80,000. To address unforeseen conditions, budgeting a contingency in the amount of \$20,000 is recommended.

Staff Recommendation

District staff recommend that the Board delegate to the District administrator, the authority to execute the described individual work order subject to the estimated amount of \$80,000 plus up to an additional \$20,000 in change orders to address unforeseen conditions, and subject to the overall maintenance program budget.

District staff also recommend that the Board affirm that all other work order maintenance activities should be executed in accordance with Resolution 2023-04.

MEMORANDUM

Rice Creek Watershed District



Proposed Motion

Manager _____ moves to delegate to the administrator on advice of counsel the authority to execute the described individual work order subject to the estimated amount (\$80,000) plus up to an additional \$20,000 to address unforeseen conditions, and subject to the overall maintenance program budget; and further moves to affirm that all other work orders for maintenance activities be executed in accordance with Resolution 2023-04, seconded by Manager _____.

Attachment

- JD 5 Repair Report: Figures 4-11

— RCWD Drainage Centerlines
 ■ Public Waters

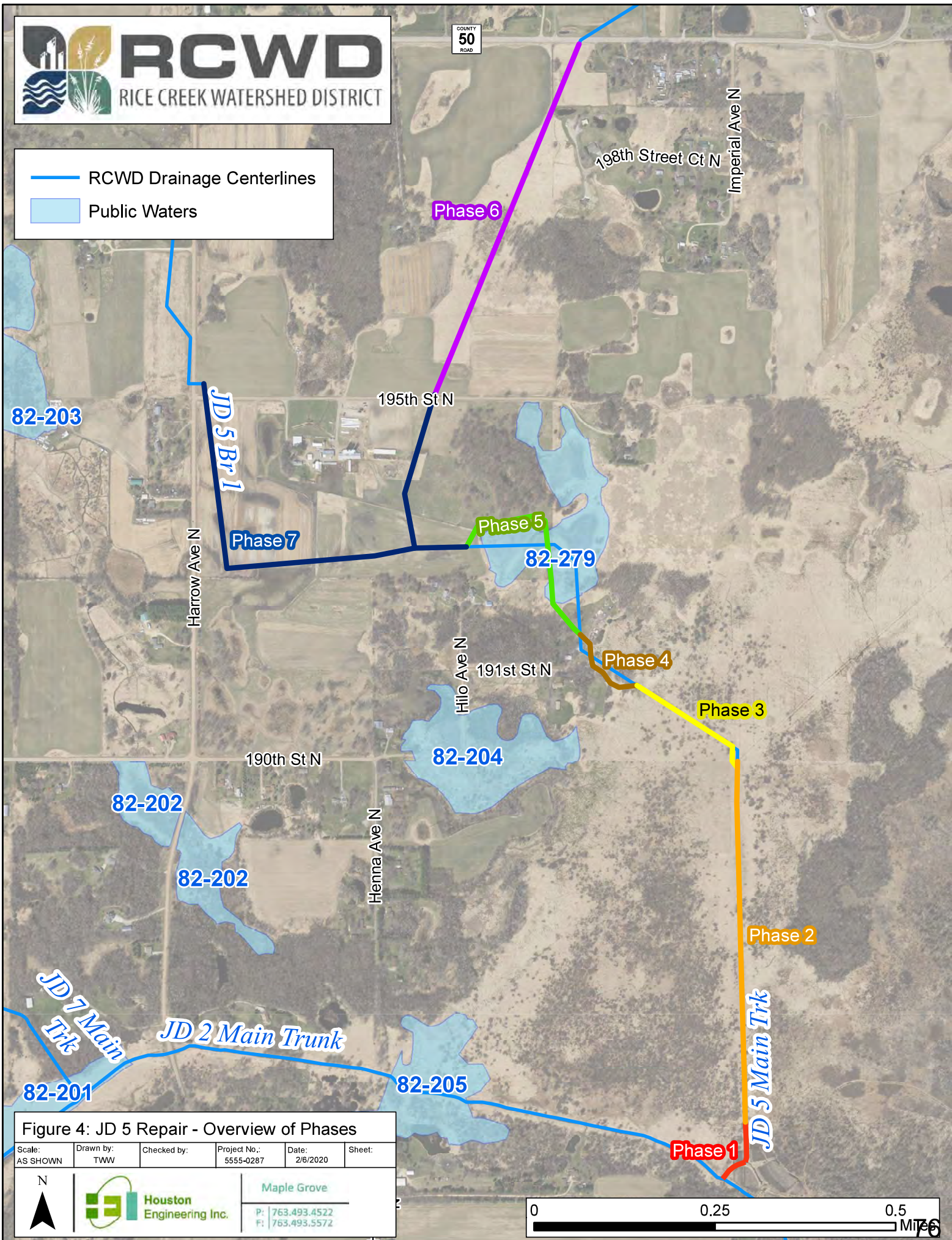
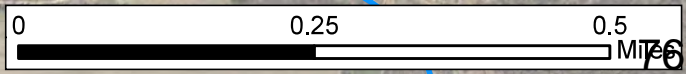


Figure 4: JD 5 Repair - Overview of Phases

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 2/6/2020	Sheet:
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 Houston Engineering Inc.
 Maple Grove
 P: 763.493.4522
 F: 763.493.5572



— RCWD Drainage Centerlines

Remove failing tile.
Restore open channel
to equivalent
capacity / function
of original tile.

Replace the existing culvert.

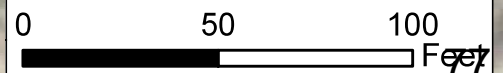
Clean out
sediment.

JD 5 Main Trnk

JD 2 Main Trunk

Figure 5: JD 5 Repair - Phase 1

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 3/16/2020	Sheet:
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RCWD Drainage Centerlines

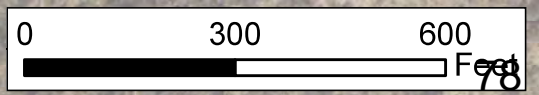
JD 5 Main Trk

Patch tile as needed.

Figure 6: JD 5 Repair - Phase 2

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 2/13/2020	Sheet:
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N ▲		Maple Grove
		P: 763.493.4522 F: 763.493.5572



— RCWD Drainage Centerlines

Complete replacement
with HDPE pipe
(equivalent diameter).

JD 5 Main Trk

Realign tile
to gain cover
over pipe.

Install a WYE to reconnect
and install intake to drain
private tile to the NE.

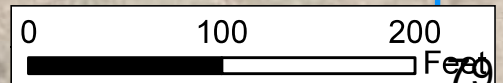
Figure 7: JD 5 Repair - Phase 3

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 3/16/2020	Sheet:
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Maple Grove

P: 763.493.4522
F: 763.493.5572



— RCWD Drainage Centerlines

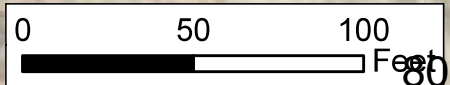
JD 5 Main Trk

Realign around wetland areas.

Figure 8: JD 5 Repair - Phase 4

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	 <p>Houston Engineering Inc.</p>	Maple Grove
		P: 763.493.4522 F: 763.493.5572



— RCWD Drainage Centerlines
 Public Waters

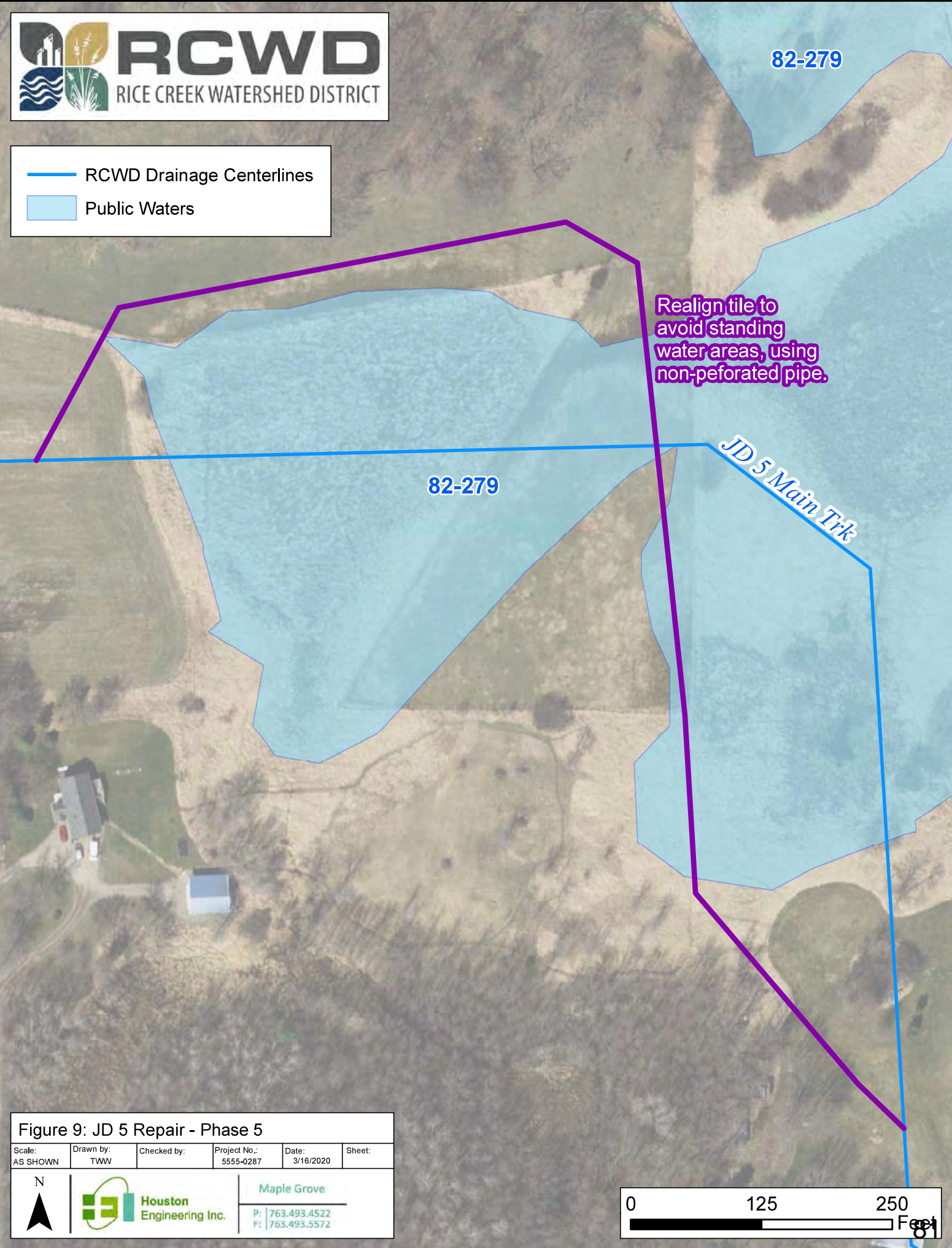
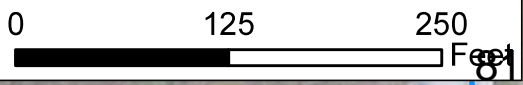


Figure 9: JD 5 Repair - Phase 5

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 3/16/2020	Sheet:
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		Maple Grove
		P: 763.493.4522 F: 763.493.5572



— RCWD Drainage Centerlines
Public Waters

Complete replacement
with HDPE pipe
(equivalent diameter).

JD 5 Main Trk

198th Street Ct N

195th St N

82-279

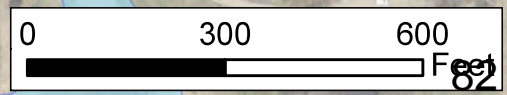
Figure 10: JD 5 Repair - Phase 6

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 3/16/2020	Sheet:
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N




Maple Grove
P: 763.493.4522
F: 763.493.5572



— RCWD Drainage Centerlines

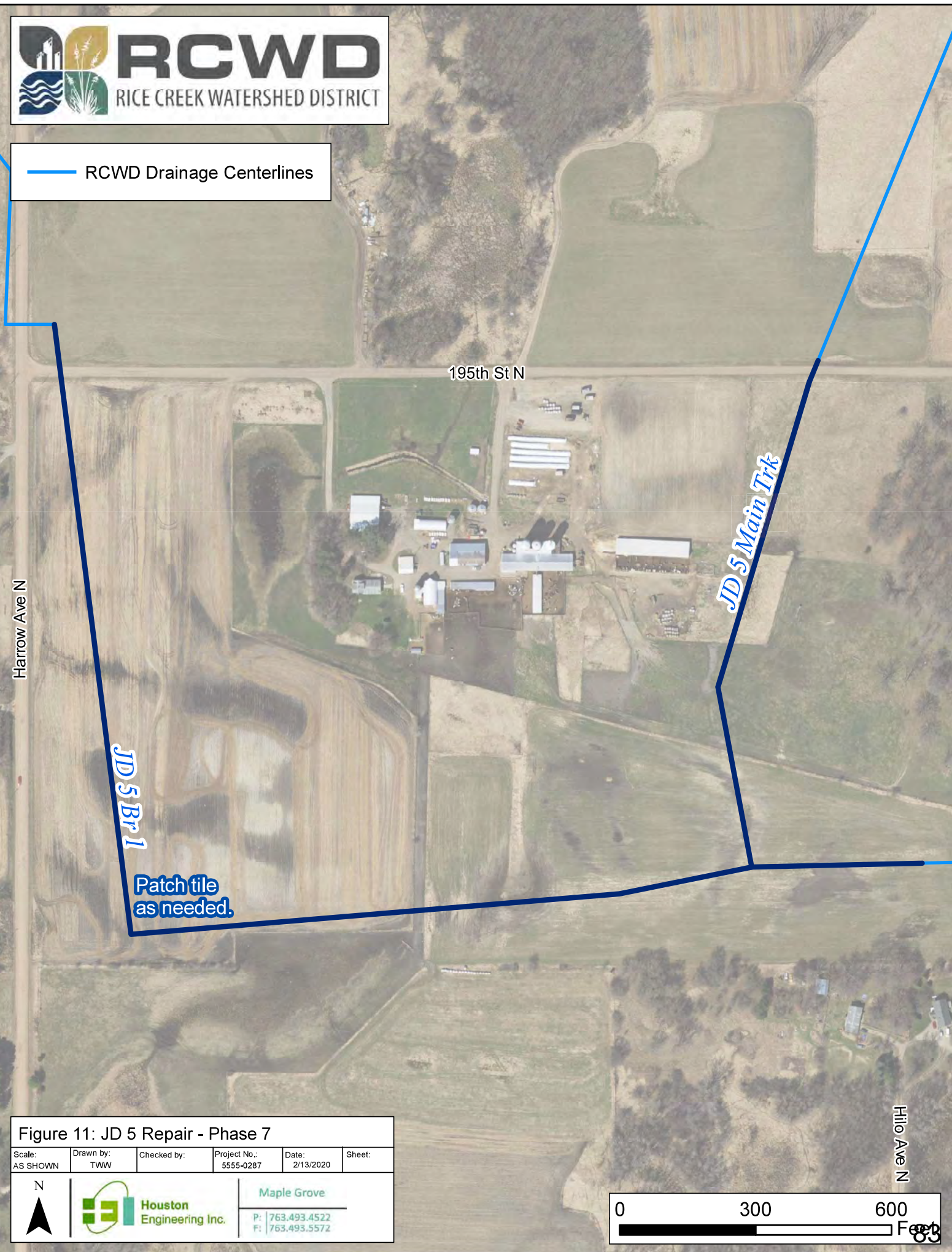
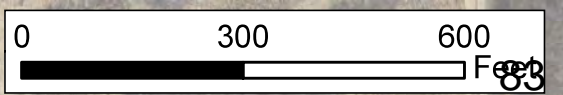


Figure 11: JD 5 Repair - Phase 7

Scale: AS SHOWN	Drawn by: TWW	Checked by:	Project No.: 5555-0287	Date: 2/13/2020	Sheet:
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		Maple Grove
		P: 763.493.4522 F: 763.493.5572



Hilo Ave N

ITEMS REQUIRING BOARD ACTION

3. Check Register Dated August 9, 2023, in the Amount of \$169,104.19 Prepared by Redpath and Company

Rice Creek Watershed District
Check Register
Jul. 27, 2023 - Aug. 9, 2023
To Be Approved at the August 9, 2023 Board Meeting

Check #	Date	Payee	Description	Amount	
25217	07/26/23	City of Roseville	Contracted Services	\$45,040.94	Issued 7/26/23
25218	08/09/23	Apitz Garage, Inc.	Vehicle	\$124.46	
25219	08/09/23	Arrow Fence	Construction	4,500.00	
25220	08/09/23	Career Enhancement Options, Inc.	Professional Services	2,665.00	
25221	08/09/23	City of Shoreview	Professional Services	400.00	
25222	08/09/23	Comcast	Telecommunications	547.60	
25223	08/09/23	Iron Mountain	Professional Services	180.00	
25224	08/09/23	ODP Business Solutions	Office Supplies	190.26	
25225	08/09/23	Ramsey County	Contracted Services	13,823.12	
25226	08/09/23	Silver Lake Residents Association	Contracted Services	500.00	
25227	08/09/23	U.S. Bank Equipment Finance, Inc.	Equipment Lease	249.98	
25228	08/09/23	Washington Conservation Dist.	Contracted Services	5,901.65	
25229	08/09/23	Zayo Group, LLC	Telecommunications	1,300.21	
11320	08/09/23	McGough Construction Co., LLC	Surety Release - #18-049 Final	1,000.00	
11321	08/09/23	Panda Restaurant Group Inc.	Surety Release - #20-099	2,600.00	
11322	08/09/23	PPF RTL Rosedale Shopping Center, LLC	Surety Release - #21-086	33,107.00	
11323	08/09/23	Pulte Group	Surety Release - #20-102	3,500.00	
11324	08/09/23	Paul Sitarz	Surety Release - #21-106	1,000.00	
Payroll	08/15/23	Aug 15th Payroll (estimate)	Aug 15th Payroll (estimate)	30,140.40	
EFT	08/09/23	Wex Bank	Vehicle Fuel	316.95	
EFT	08/09/23	Xcel Energy	Telecommunications	99.04	
EFT	08/09/23	Xcel Energy	Telecommunications	14.38	
EFT	08/09/23	Card Services-Elan	July/Aug Credit Card	2,097.91	
EFT	08/15/23	Internal Revenue Service	08/15 Federal Withholding (estimate)	10,622.03	
EFT	08/15/23	Minnesota Revenue	08/15 State Withholding (estimate)	1,931.40	
EFT	08/15/23	Empower Retirement	08/15 Deferred Compensation	955.00	
EFT	08/15/23	Empower Retirement	08/15 Roth IRA	265.00	
EFT	08/15/23	PERA	08/15 PERA (estimate)	6,031.86	
Total				<u>\$169,104.19</u>	

ITEMS FOR DISCUSSION AND INFORMATION

1. Ramsey County Ditch (RCD) 4 Repair Report (Ashlee Ricci)

MEMORANDUM
Rice Creek Watershed District



Date: August 1, 2023
To: RCWD Board of Managers
From: Ashlee Ricci, Public Drainage Inspector
Subject: Ramsey County Ditch 4 Repair Report – Set Informational Meeting

Introduction

Houston Engineering, Inc. (HEI) will be presenting on the Ramsey County Ditch (RCD) 4 Repair Report. The Board is being asked to consider directing staff to set and notice a public informational meeting.

Background

The Rice Creek Watershed District as Drainage Authority for RCD 4 performed inspections of the drainage system in 2011, 2013, and 2016 as part of the as-constructed and subsequently improved condition determination. An additional survey in 2022 showed that little sediment had accumulated in the portion of the system downstream from Oasis Pond. However, it was noted that there was a lack of accessibility for maintenance and inspection, as well as bank erosion due to heavy shading from dense tree cover. Subsequent to those inspections, a task order was executed directing the engineer to prepare a repair report to address access and bank erosion concerns. The repair report is attached.

The next step is for staff to hold an informational meeting inviting the landowners, including city, county, and other applicable entities that are along the proposed repair. Following the informational meeting, the Board may consider accepting the repair report and ordering the repair of the system.

Staff Recommendation

District staff recommend that the Board direct staff to set and notice a public informational meeting to be held at 6:30pm during the week of September 25, 2023, subject to availability at Roseville City Hall.

Attachments:

- HEI Technical Memorandum: RCD 4 Repair Report dated July 13, 2023

Technical Memorandum

To: Nick Tomczik, Administrator
Rice Creek Watershed District

Cc: Tom Schmidt
Ashlee Ricci

From: Adam Nies

Through: Chris Otterness, PE

Subject: RCD 4 Repair Report

Date: July 13, 2023

Project #: R005555-0327

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



Adam N. Nies

July 13, 2023

Reg. No. 53358

INTRODUCTION AND EXECUTIVE SUMMARY

The purpose of this memorandum is to provide the Rice Creek Watershed District (District) with an analysis and description of proposed repairs to portions of Ramsey County Ditch (RCD) 4, including a preliminary opinion of probable cost for the recommended repairs.

The primary issues identified for RCD 4 are a lack of accessibility for inspection and maintenance and bank erosion due to sparse ground cover. Both of these issues are directly related to heavy tree growth along and over the ditch, which forms a barrier to access and shields sunlight from lower-growth vegetation. Recommended repairs consist of tree removal between the channel banks and adjacent to one bank to facilitate maintenance access. Cost for these repairs is estimated at approximately \$235,000.

BACKGROUND

LOCATION OF THE PUBLIC DRAINAGE SYSTEM

The RCD 4 public drainage system is located within Sections 4, 9, 25, and 10 (of T 29N, R 23W) and Section 33 (of T30N, R23W), within the Cities of Roseville and Arden Hills, Ramsey County. RCD 4 previously consisted of a Main Trunk and one connecting lateral, however, the portion of the RCD 4 Main Trunk south of Terrace Drive and the entirety of Lateral 1 have been transferred to the City of Roseville. Although this transfer changed management authority over a portion of the ditch, it does not change the drainage area of RCD 4, or the lands benefitted by the system. The drainage area that contributes runoff to the public drainage system is approximately 1,700 acres and is in an entirely urban environment with land uses including residential, commercial, and industrial. The public

drainage system drains through Little Lake Johanna into Lake Johanna which in turn drains to Rice Creek. The terminus of the public drainage system is Lake Johanna. The system traverses through residential neighborhoods and the campus of Northwestern University. The location of RCD 4 is shown in **Figure 1**.

CURRENT CONDITION OF THE SYSTEM

Houston Engineering, Inc. (HEI) completed a ground survey of RCD 4 in 2011, 2013, and 2016 as part of an effort to determine the as-constructed and subsequently improved condition (ACSIC) and reestablish the public drainage system record. HEI completed a follow-up survey in fall 2022 on the portion of RCD 4 Main Trunk between station 18+22 and 38+67 to verify sediment accumulation and locate eroded portions of the bank. The 2022 survey indicated little accumulation of sediment in the channel. This is due in part to the relatively steep ditch grade allowing sediment to remain in suspension and flow downstream to settle out in Little Lake Johanna. Upon seeing very little change to the ditch profile during the first portion of the survey, HEI and RCWD staff concurred that further profile investigation was unnecessary, and the survey of the remaining portions of the ditch was discontinued. The existing ditch bottom profile depicted in the Plan and Profile drawings (**Figure 2**) are based on the 2016 survey and verified with partial ditch survey in 2022.

HEI and District staff completed a walk-through of the entire RCD 4 open channel in August 2022 from Oasis Pond to Little Lake Johanna. Conditions were documented via photographs, videos, and notes (see photos in **Appendix A**). Some of the open channel (particularly in downstream portions closer to Little Lake Johanna) has been lined with grouted riprap, which is generally in good condition. However, large vegetation, brush, and trees prevent access for maintenance. There are also deadfalls within the channel in many of the treed areas, which can lead to reduction in capacity of the drainage ditch. The tree canopy causes heavy shading of the banks resulting in scarcity of vegetation and ground cover, which can lead to bank erosion and excess sedimentation downstream.

In addition to the usual difficulty of tree clearing associated with repairing ditches that have not had regular maintenance, RCD 4 is also located in a developed area. As a result, there are multiple locations along the ditch where fences, retaining walls, and trails are located within the area required for maintenance access. At approximate station 40+50, a walking path begins on the eastern side of the ditch and continues downstream to Lydia Ave. There are multiple retaining walls located adjacent to the path that limit access to Lydia Ave. On the west bank of the ditch from Oasis Pond to Lydia Ave there is no direct access due to the proximity of residential yards to the ditch. Along the north side of Lydia Ave, there is limited access to the west bank due to the proximity of houses. However, on the east bank there is a maintenance road located near the University of Northwestern baseball field. This access road leads to a walking path along the east bank of the drainage ditch until the ditch reaches Little Johanna Lake.

PROPOSED REPAIR

The purpose of the proposed repair is to restore a maintenance corridor and reestablish stabilizing vegetation and ground cover along the banks of RCD 4 Main Trunk from Oasis Pond to Lake Johanna. The banks and ROW are densely vegetated with trees and brush which make access difficult, shade the banks, and prevent stabilizing vegetation from growing. Repairs in this reach would include removal of vegetation (trees/brush) within the channel, including deadfalls, and clearing of trees and brush along one side of the channel to provide maintenance access. Due to the lack of available space to dispose of wood chips on site, all cleared tree and vegetation debris must be hauled offsite. No significant sediment removal or spoiling of sediment is anticipated for this project. All areas disturbed by the clearing efforts will be stabilized and reseeded with shade tolerant vegetation as some canopy is expected to remain from the opposite bank from which clearing activities are occurring. Additional erosion control practices (e.g. blanketing) may be required in some areas adjacent to the project work limits as the site is cleared and scoured areas become more apparent.

Project work is recommended to occur on the east side of RCD 4 between Little Lake Johanna and Oasis Pond due to accessibility concerns discovered during the site walk through with District Staff. Project work is recommended to occur on the east side of RCD 4 between Lake Johanna and Little Lake Johanna. The “working side” of ditch is displayed on the preliminary construction plans provided in **Appendix B**. Removal of additional poor condition trees immediately adjacent to the work limits will be taken into consideration during construction. That being trees that are imminent for falling either into the ditch or at risk of damaging structures.

EFFECTS OF REPAIR

Drainage System Performance

The repairs will provide a more stable outlet for benefitting lands, particularly within the Main Trunk immediately downstream of Oasis Pond. This will be accomplished through the removal of several deadfalls and snags that cause flow to slow (dropping sediment) and swirl (causing bank erosion), and through the removal of trees and brush that prevent sunlight from reaching the channel banks. Reintroducing sunlight and planting deep rooted grasses will provide a stable bank that is less susceptible to erosion and failures while reducing the threat of future deadfalls. The removal of trees and large vegetation is also essential to the future performance of the ditch as it allows access for future inspection and maintenance activities.

Wetland Impacts

We reviewed the National Wetland Inventory (NWI) dataset and aerial photography to determine the extents of wetland resources within the vicinity of the drainage system channel. There are three (3)

wetland complexes along the corridor of the drainage system channel including Type 3 and Type 5 wetlands (**Figure 1**).

The proposed project falls under the definition of a “repair” under Minnesota Statute 103E. Per the US Army Corps of Engineers Regulatory Guidance Letter 07-02, this work is exempt from federal permitting requirements of the Clean Water Act (CWA). Under the Wetland Conservation Act (WCA), impacts to Type 3, 4 and 5 wetlands resulting from drainage system repair would require mitigation, should impacts occur from the repair. However, the proposed repair work does not result in dredging or replacement of fill therefore there will be no impacts to wetlands that require mitigation. Therefore, a loss of wetland quantity, quality or biological diversity is not expected due to the project.

Threatened and Endangered Species

Public drainage systems may encounter situations where Minnesota’s Endangered Species Statute (MS 84.0895) and the associated Rules apply. The endangered species program regulates activities that take, import, transport, or sell any portion of an endangered or threatened species where these acts may be allowed by permit issued by the DNR. The statutes exempt the accidental, unknowing destruction of designated plants. However, it is the responsibility of the Engineer when preparing a final report to complete due diligence to avoid impacts to threatened and endangered species.

Based on the MnDNR’s Natural Heritage Information System (NHIS) data (LA-944) as **Appendix D**, the District Engineer is aware of three state-listed threatened species that have been observed within one mile of the RCD 4 project site:

- Jumping Spider (*Paradamoetas fontanus*)
- Caddis Fly (*Oecetis ditissa*)
- Kinnickinnick Dewberry (*Rubus multiflorus*)

The District Engineer will use impact avoidance strategies including strategic construction timing, best management practices and species awareness to avoid an incidental taking of state-listed threatened species at the time of construction.

PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST

A Preliminary Opinion of Probable Construction Cost (POPCC) was developed for the recommended repairs and is included as **Appendix C**. Our cost estimate is approximately \$235,000 including a 20% construction contingency, 30% Engineering fee and \$10,000 Legal/Administrative fees. Major work line items include tree clearing, mobilization, traffic control & public safety for the recreational trail usage, and seeding & mulch. The cost estimate also includes protection of existing features, such as lateral connections, retaining walls and gravel trails.

The District’s Watershed Management Plan describes the apportionment of public drainage system repair project costs to roadway authorities, landowners draining to the system (via a Water

Management District charge), and to the District's general (ad valorem) levy. These cost allocations will be detailed in a future report that will be considered during a public hearing.

Conclusion/Recommendation

To restore the function of the RCD 4 public drainage system to the ACSIC, we recommend the District complete repair of the Main Trunk from Oasis Pond to Lake Johanna focused on reestablishing the access corridor including clearing and management of trees and brush along the channel. We conclude that the proposed repairs are necessary to meet the current and future stormwater management needs, and that the repairs are in the best interest of the property owners. The recommended repairs are believed to balance the need to provide serviceable drainage and stormwater management with the desire to minimize environmental impacts while implementing the best value alternative.

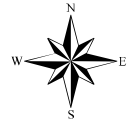
With consideration of Minnesota Statute 103E.015, subd. 2, the project as recommended will conserve soil, water, wetlands, wild animals, and related natural resources to the maximum extent practicable while restoring and protecting the future function of the public drainage system. The drainage system serves as an outlet for commercial, industrial, residential, and municipal waters and is therefore essential to promoting public utility, benefit, and welfare.








To assist the Board of Managers, concept-level design and cost information are provided in this memorandum. Detailed construction plans, bid documents, and specifications will need to be prepared subsequent to the Board establishing and ordering a project. We also recommend the Board of Managers engage landowners adjacent to the project area regarding the Reasonable and Necessary Area to complete repairs. All work for the project will be completed within the defined right of way limits of RCD 4.

The Board of Managers retains the decision whether to accept, reject, or modify the Engineer's Recommendation. The repairs recommended by the Engineer are consistent with the objectives and policies identified with the current Watershed Management Plan.




LIST OF ATTACHMENTS

- Figure 1: Project Location & Wetlands
- Appendix A: Pictures from RCD 4 Walk Through
- Appendix B: Proposed Repair Plan and Profiles
- Appendix C: Preliminary Opinion of Probable Construction Cost
- Appendix D: DNR Natural Heritage Review



-  RCD 4 Current Alignment
-  Interstate
-  State Highway
-  City
-  Township/Range
-  County Boundary
-  RCWD Boundary

NWI Circular 39 Class

-  1 - Seasonally Flooded Basin or Flat
-  3 - Shallow Marsh
-  5 - Shallow Open Water

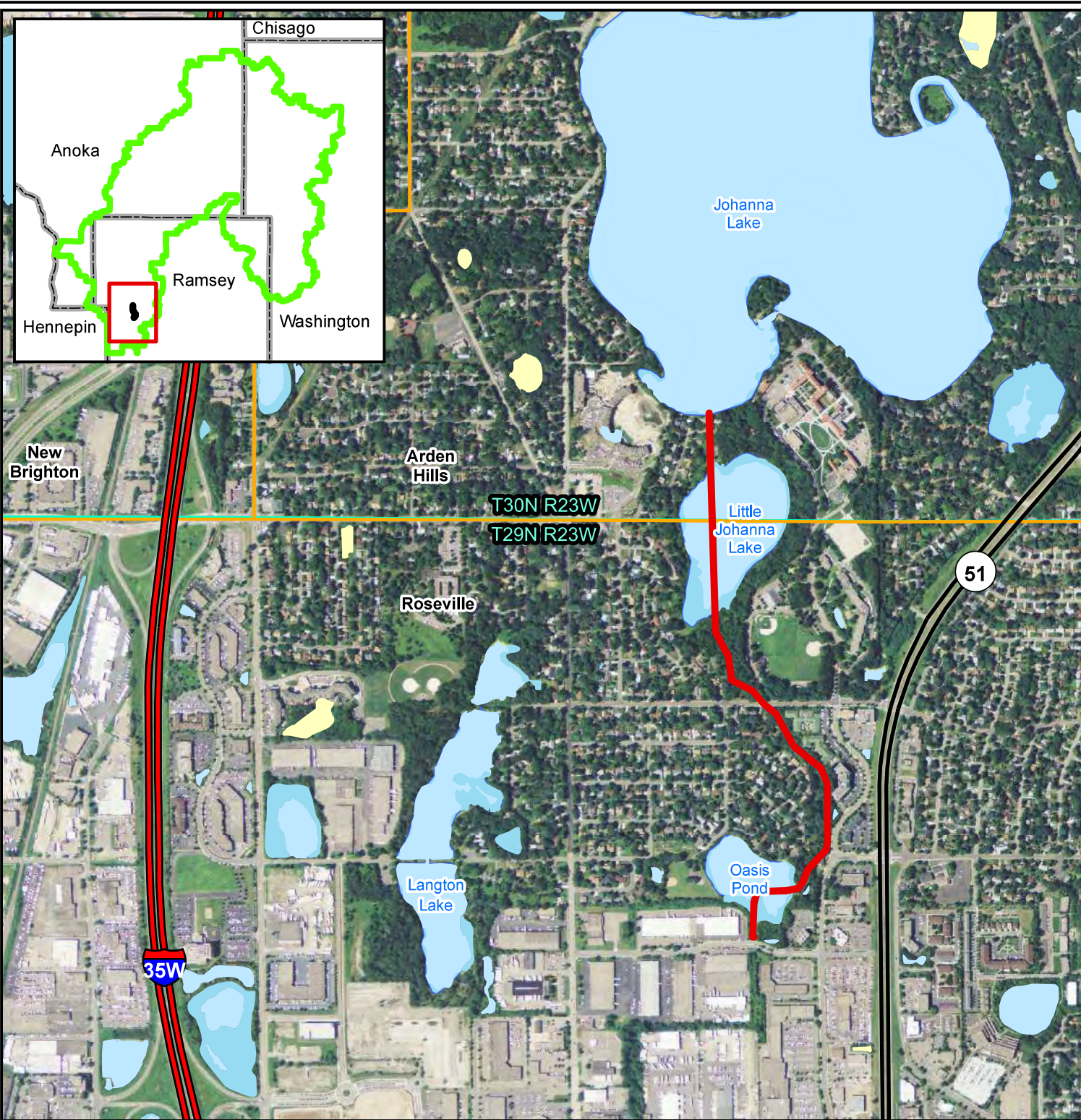
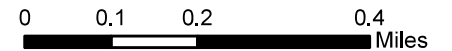


Figure 1: Ramsey County Ditch 4 Current Alignment

Scale: AS SHOWN	Drawn by: IRR	Checked by: ANN	Project No.: 5555-327	Date: 3/29/2023
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Maple Grove
P: 763.493.4522
F: 763.493.5577

APPENDIX A: FIELD WALK THROUGH PHOTOS



Photo #1: Grouted Weir,
STA: 45+15



Photo #2: Gravel Path and Retaining wall on
east side of ditch, STA: 36+00



Photo #3: Swale on west side of ditch, STA:
42+00



Photo #4: Gravel Path and Retaining wall on
east side of ditch, STA: 30+00



Photo #5: Chain link fence on west side of ditch,
STA: 29+00



Photo #6: Leakage from retaining wall on east
side of ditch, STA: 27+00

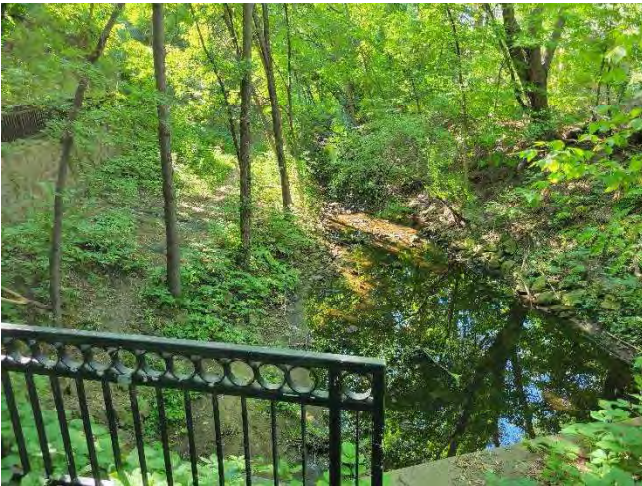


Photo #7: Lydia Ave STA: 27+00, looking
upstream.



Photo #8: Large open area on Lydia Ave,
STA: 26+00

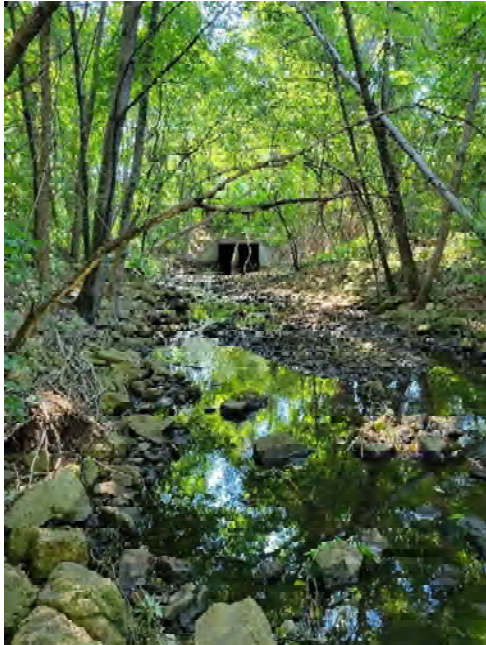


Photo #9: Riprap in channel
STA: 20+00



Photo #10: Access from Northwest Maintenance
Road, STA: 24+00

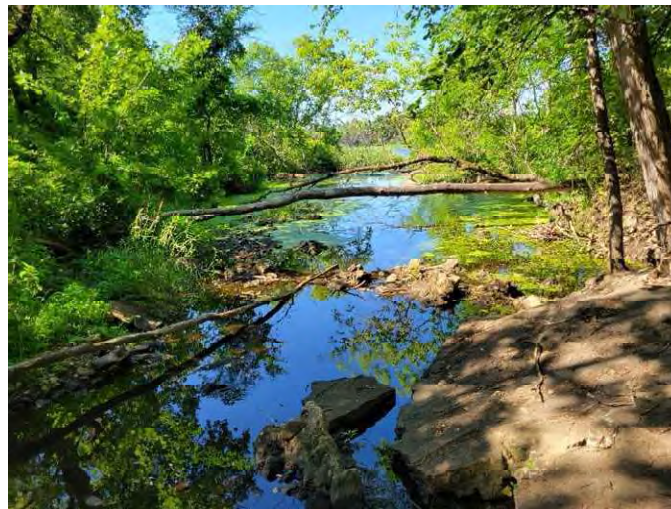
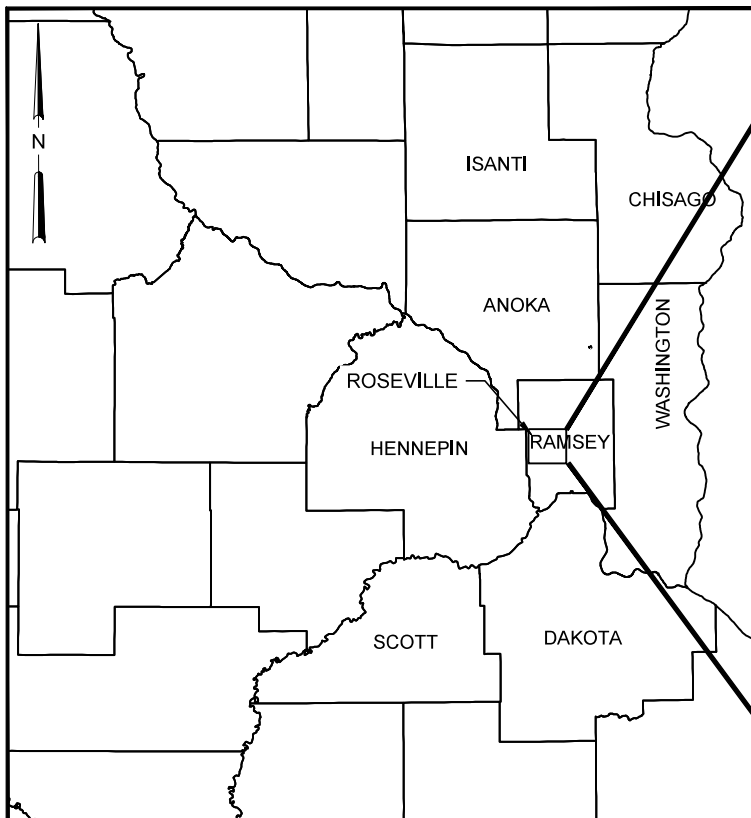


Photo #11: Outlet to Little Johanna Lake,
STA: 17+00

APPENDIX B: PROPOSED REPAIR PLAN AND PROFILE

**RAMSEY COUNTY
DITCH 4
MAIN TRUNK REPAIR
RICE CREEK WATERSHED DISTRICT
CITY OF ROSEVILLE
MAY 2023**

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	RCD 4 MAIN TRUNK PLAN & PROFILE
3	RCD 4 MAIN TRUNK PLAN & PROFILE
4	DETAILS
5	SWPPP
6	SWPPP



NOTES:

1. GEODETIC CONTROL

HORIZONTAL: NAD83 MINNESOTA STATE PLANE, SOUTH ZONE, US FOOT

VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK: DQ8733 SW QUARTER, SECTION 29, TOWNSHIP 29N, RANGE 23W

IN ROSEVILLE, AT THE JUNCTION OF TRUNK HIGHWAY 51 (SNELLING AVENUE) AND COUNTY ROAD C2 IN ROSEVILLE, AT TRUNK HIGHWAY 51 MILEPOINT 8.85, 91.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 51, 80.2 FEET SOUTH OF EASTBOUND COUNTY ROAD C2, 38.5 FEET EAST OF SNELLING DRIVE, 1.5 FEET NORTH OF A WITNESS POST.

2. UTILITY

PRIOR TO ANY EXCAVATION WORK, THE CONTRACTOR IS RESPONSIBLE UNDER MINNESOTA STATE STATUTE 216D AND MINNESOTA RULES CHAPTER 7560 TO CONTACT GOPHER STATE ONE CALL FOR THE LOCATION OF UNDERGROUND UTILITY FACILITIES IN PROXIMITY TO THE EXCAVATION SITE.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

3.

DESCRIPTION	UTILITY TABULATION	OWNER
COMMUNICATION	CENTURY LINK	CENTURY LINK
COMMUNICATION	MIDCONTINENT COMMUNICATIONS	MIDCONTINENT COMMUNICATIONS
COMMUNICATION	ZAYO BANDWIDTH	ZAYO BANDWIDTH
ELECTRIC	CONNEXUS ENERGY	CONNEXUS ENERGY
ENERGY	XCEL ENERGY	XCEL ENERGY
ENERGY	MINNESOTA ENERGY RESOURCES	MINNESOTA ENERGY RESOURCES
GAS	CENTER POINT ENERGY	CENTER POINT ENERGY
PETROLEUM	MAGELLAN MIDSTREAM PARTNERS	MAGELLAN MIDSTREAM PARTNERS

4. CONTACT "GOPHER STATE ONE CALL" FOR LOCATIONS OF BURIED UTILITIES. CALL (651) 454-0002 OR (800) 252-1166. ALSO CONTACT AT www.gopherstateonecall.org

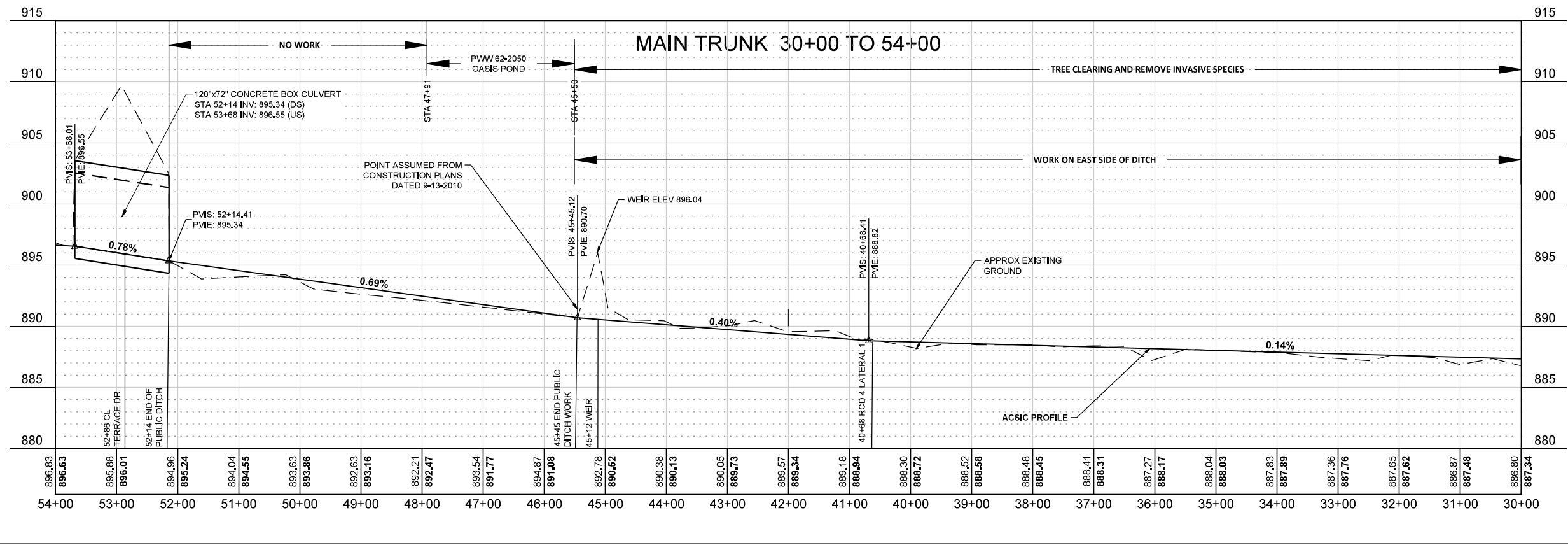
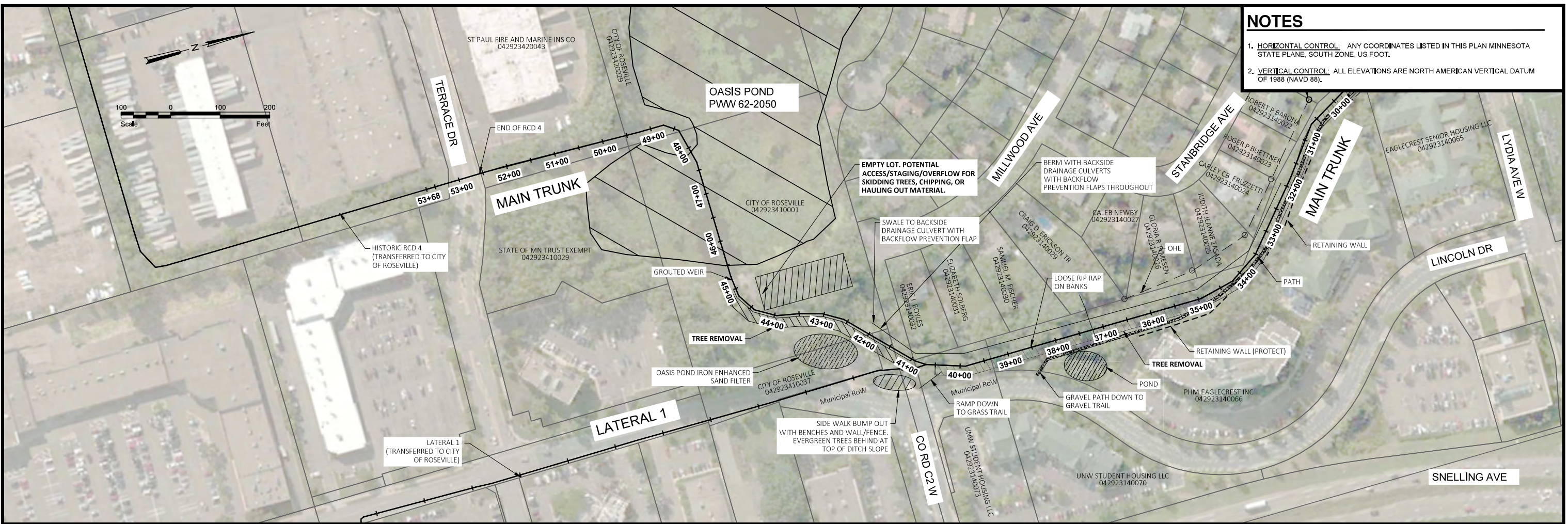
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PREPARED BY:



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- NOTES**
- HORIZONTAL CONTROL:** ANY COORDINATES LISTED IN THIS PLAN MINNESOTA STATE PLANE, SOUTH ZONE, US FOOT.
 - VERTICAL CONTROL:** ALL ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).



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 Date 5/9/2023
 Checked by ANN
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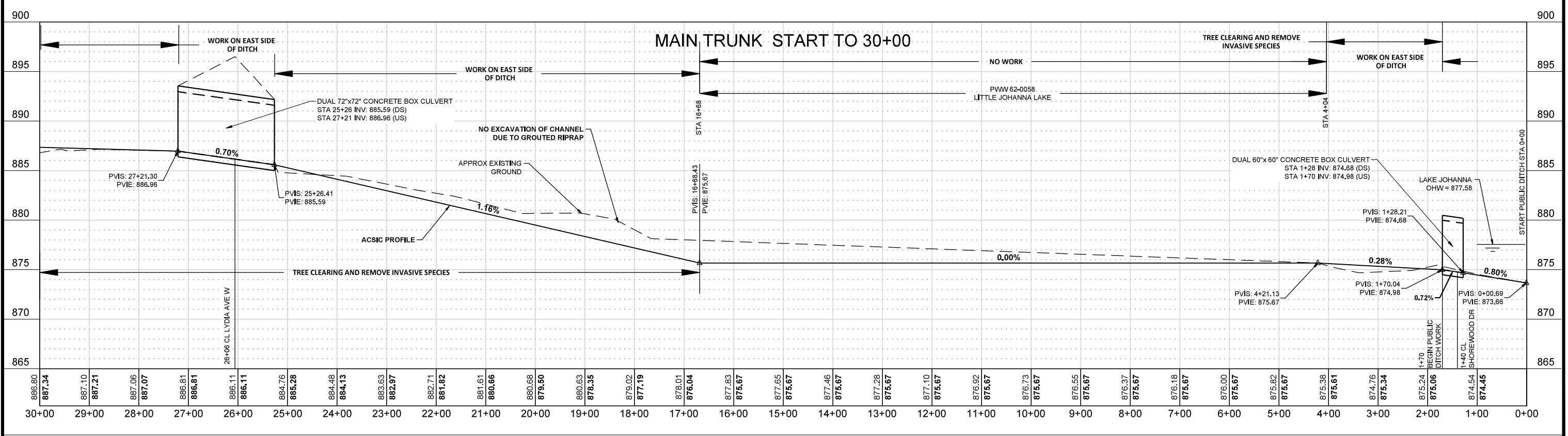
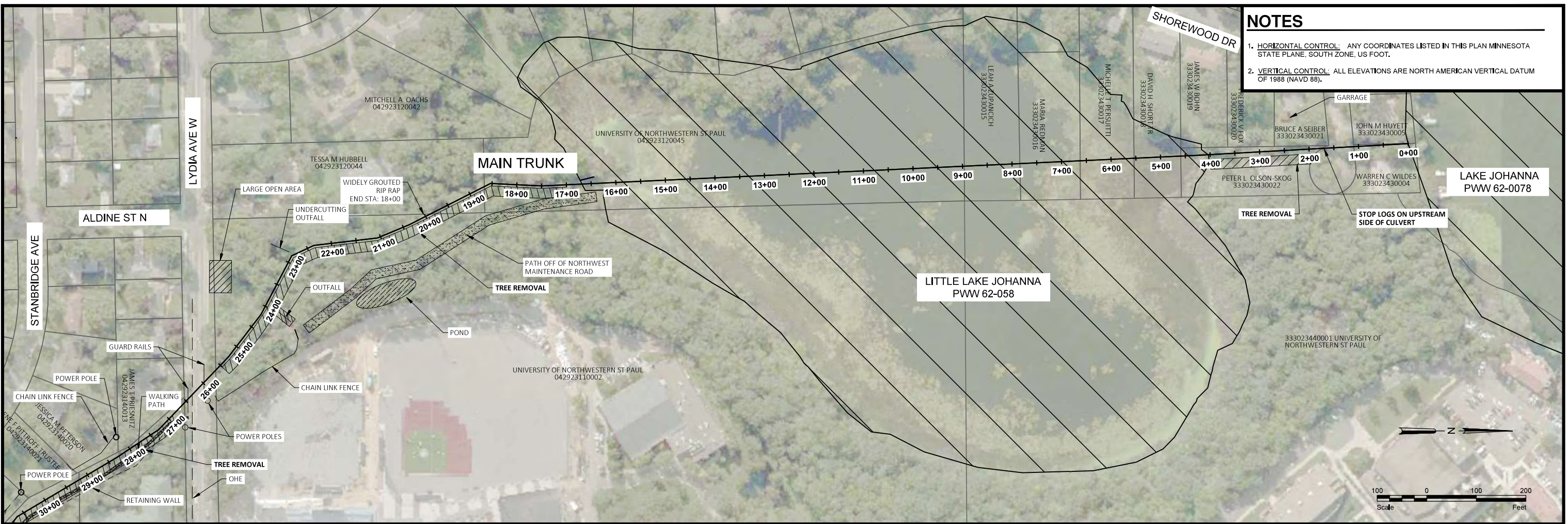
RAMSEY COUNTY DITCH 4 REPAIR
 RICE CREEK WATERSHED DISTRICT

PLAN AND PROFILE
 MAIN TRUNK
 PROJECT NO. 5555-0327

SHEET
 99

NOTES

- HORIZONTAL CONTROL:** ANY COORDINATES LISTED IN THIS PLAN MINNESOTA STATE PLANE, SOUTH ZONE, US FOOT.
- VERTICAL CONTROL:** ALL ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).



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No.	Revision	Date	By

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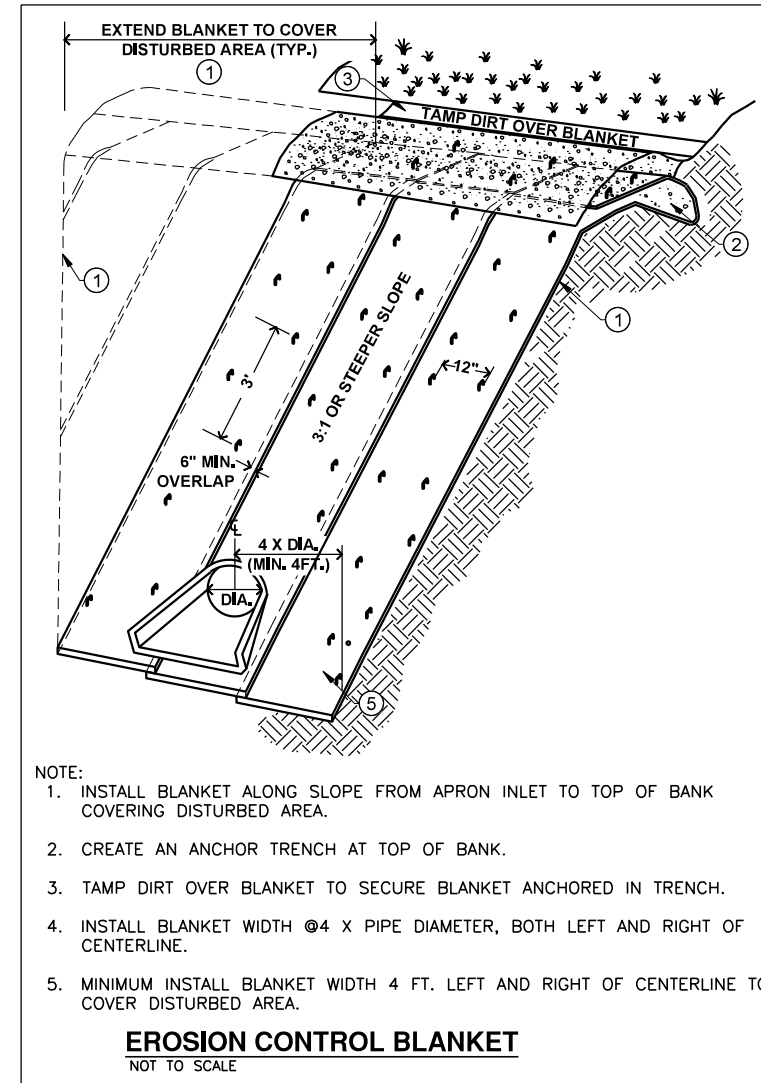
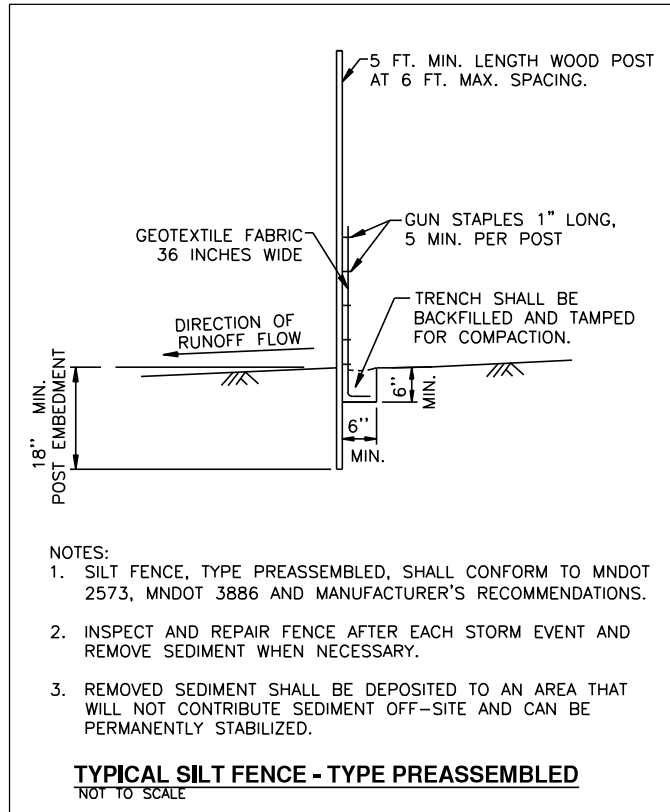
Maple Grove
 Drawn by IRR
 Date 5/9/2023
 Checked by ANN
 Scale AS SHOWN

RAMSEY COUNTY DITCH 4 REPAIR
 RICE CREEK WATERSHED DISTRICT

PLAN AND PROFILE
 MAIN TRUNK
 PROJECT NO. 5555-0327

SHEET
 100

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IRR

Date
5/9/2023

P: 763.493.4522
F: 763.493.5572

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RAMSEY COUNTY DITCH 4 REPAIR
RICE CREEK WATERSHED DISTRICT

DETAILS

PROJECT NO. 5555-0327

SHEET
101

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

THE MINNESOTA GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY ISSUED ON AUGUST 1, 2018 SHALL APPLY FOR THIS PROJECT.

GENERAL CONSTRUCTION ACTIVITY INFORMATION

PROJECT NAME: RAMSEY COUNTY DITCH 4 MAIN TRUNK REPAIR

1. PROJECT LOCATION:

CITY OR TOWNSHIP: CITY OF ROSEVILLE AND ARDEN HILLS
 STATE: MN ZIP CODE: 55112 COUNTY: RAMSEY
 LATITUDE/LONGITUDE OF APPROXIMATE CENTROID OF PROJECT: 45.0355,-93.1721

2. DESCRIBE THE CONSTRUCTION ACTIVITY:

THE RAMSEY COUNTY DITCH 4 MAIN TRUNK REPAIR WILL CONSIST CLEARING AND GRUBBING VEGETATION ALONG THE MAIN TRUNK.

PROJECT AREAS

- 1. TOTAL AREA TO BE DISTURBED (ACRES): 4.78
- 2. PRE-CONSTRUCTION IMPERVIOUS SURFACE (ACRES): 0.0
- 3. POST-CONSTRUCTION IMPERVIOUS SURFACE (ACRES): 0.0
- 4. TOTAL NEW IMPERVIOUS SURFACE (ACRES): 0.0

RECEIVING WATERS

SURFACE WATERS WITHIN ONE MILE OF PROJECT BOUNDARY (AERIAL RADIUS MEASUREMENT) THAT WILL RECEIVE STORMWATER FROM THE SITE OR DISCHARGE FROM PERMANENT STORMWATER MANAGEMENT SYSTEM:

WATER BODY ID	NAME OF WATER BODY	TYPE	SPECIAL WATER	IMPAIRED WATER
PWW 62-2050	OASIS POND	POND	NO	NO
PWW 62-058	LITTLE LAKE JOHANNA	LAKE	NO	YES
PWW 62-0078	LAKE JOHANNA	LAKE	NO	NO

CONTACT INFORMATION

PROJECT OWNER: RICE CREEK WATERSHED DISTRICT
 4325 PHEASANT RIDGE DR NE
 BLAINE, MN 55449

CONTRACTOR: TO BE DETERMINED

DESIGN OF CONSTRUCTION SWPPP

DESIGN OF CONSTRUCTION SWPPP COMPLETED BY:
 AARON M. ZIGAN
 HOUSTON ENGINEERING, INC.
 7550 MERIDIAN CIRCLE NORTH, SUITE 120
 MAPLE GROVE, MINNESOTA 55369
 PHONE: (763) 493-4522
 FAX: (763) 493-5572
 azigan@houstoneng.com

PROJECT INFORMATION

- 1. CHAIN OF RESPONSIBILITY: OWNER AND CONTRACTOR ARE COPERMITTEES FOR THE MINNESOTA GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE MINNESOTA GENERAL PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. THE CONTRACTOR WILL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.
- 2. TRAINING DOCUMENTATION: CONTRACTOR SHALL LIST PEOPLE REQUIRING TRAINING PER PART III.F.1, DATES OF TRAINING AND NAME OF INSTRUCTOR(S) AND ENTITY PROVIDING TRAINING, CONTENT OF TRAINING COURSE OR WORKSHOP INCLUDING THE NUMBER OF HOURS OF TRAINING. THE OWNER SHALL BE PROVIDED WITH A COPY OF THE TRAINING DOCUMENTATION BEFORE THE START OF CONSTRUCTION ON THE PROJECT.

PROJECT INFORMATION

1. ENVIRONMENTALLY SENSITIVE AREAS:

A. **IMPAIRED WATERS:** THE RCD 4 MAIN TRUNK DISCHARGES ARE WITHIN ONE MILE OF A WATER LISTED AS IMPAIRED. THIS WATER IS LAKE JOHANNA (RCD 4 MAIN TRUNK). THIS LAKE HAS AN EPA-APPROVED IMPAIRMENT FOR: NUTRIENTS; PFOS;

SPECIAL WATERS: THERE ARE NO SPECIAL WATERS WITHIN ONE MILE OF THE DISCHARGES FOR RCD #4 MAIN TRUNK

B. **WETLANDS:** SEGMENTS OF THE WORK LIMITS CROSS WETLANDS. WORK SHALL CONFORM TO STATE AND FEDERAL WETLAND LAWS.

C. **KARST AREAS:** THERE ARE NO KNOWN KARST AREAS WITHIN THE PROJECT BOUNDARY.

D. **CALCAREOUS FENS:** THERE ARE NO KNOWN CALCAREOUS FENS WITHIN THE PROJECT BOUNDARY.

E. **ENDANGERED OR THREATENED SPECIES:** JUMPING SPIDERS, CADDIS FLY AND KINNICKINNICK DEWBERRY MAY BE LOCATED WITHIN THE WORK LIMITS. SEE SPECIFICATIONS FOR FACT SHEETS AND GUIDANCE ON AVOIDANCE.

F. **HISTORIC PLACES OR ARCHEOLOGICAL SITES:** THERE ARE NO KNOWN HISTORIC PLACES OR ARCHEOLOGICAL SITES WITHIN THE PROJECT BOUNDARY.

G. **STEEP SLOPES:** SLOPES 1:3 (V:H) OR STEEPER IN GRADE ARE CONFINED TO THE SLOPES OF THE COUNTY DITCH SYSTEM.

2. SOIL TYPES.

THE SEDIMENT REMOVAL WILL GENERALLY CONSIST OF FINE SANDS AND LOAMS. ESTIMATED PARTICLE SIZE RANGING FROM 0.1 MM TO 7.5 CM.

3. ORDER OF CONSTRUCTION ACTIVITIES:

- A. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- B. CLEAR AND GRUB VEGETATION NOTED IN PLANS
- C. STABILIZE AREAS DISTURBED WITH TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
- D. COMPLETE PERMANENT RESTORATION WITH EROSION AND SEDIMENT CONTROL MEASURES.

EROSION PREVENTION PRACTICES

- 1. STABILIZATION MUST BE INITIATED IMMEDIATELY AND NO LATER THAN 7 DAYS CALENDAR DAYS WHENEVER ANY CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. STABILIZATION MEANS THE EXPOSED GROUND SURFACE HAS BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOD, RIPRAP, EROSION CONTROL BLANKET, MATS OR OTHER MATERIAL THAT PREVENTS EROSION FROM OCCURRING. GRASS, AGRICULTURAL CROP OR OTHER SEEDING ALONE IS NOT STABILIZATION. MULCH MATERIALS MUST ACHIEVE APPROXIMATELY 90 PERCENT GROUND COVERAGE (TYPICALLY 2 TON/ACRE).
- 2. STORMWATER CONVEYANCE CHANNELS MUST BE ROUTED AROUND UNSTABILIZED AREAS. EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES MUST BE USED ALONG THE LENGTH OF THE CONVEYANCE CHANNEL AND AT ANY OUTLET.
- 3. PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.
- 4. IF FEASIBLE, STORMWATER DISCHARGES FROM BMPS MUST BE DIRECTED TO VEGETATED AREAS. USE VELOCITY DISSIPATION DEVICES AT DISCHARGE POINT IF NECESSARY.

SEDIMENT CONTROL PRACTICES


- 1. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS AND BE LOCATED UP GRADIENT OF ANY BUFFER ZONES. THE PERIMETER SEDIMENT CONTROL PRACTICE MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND-DISTURBING ACTIVITIES BEGIN. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION.
- 2. RE-INSTALL ALL SEDIMENT CONTROL PRACTICES THAT HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. COMPLETE ANY SHORT-TERM ACTIVITY THAT REQUIRES REMOVAL OF SEDIMENT CONTROL PRACTICES AS QUICKLY AS POSSIBLE. RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
- 3. ALL STORM DRAIN INLETS MUST BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED BY THE PERMITTEE OR THE JURISDICTIONAL AUTHORITY. THE PERMITTEE MUST DOCUMENT THE NEED FOR REMOVAL AND RETAIN THE RECORD WITH THE SWPPP.
- 4. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS, AND CANNOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER.
- 5. WHERE VEHICLE TRAFFIC LEAVES ANY PART OF THE SITE (OR ONTO PAVED ROADS WITHIN THE SITE) A VEHICLE TRACKING BMP, APPROVED BY THE ENGINEER, MUST BE INSTALLED TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE. STREET SWEEPING MUST BE USED IF SUCH VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET.
- 6. SOIL COMPACTION MUST BE MINIMIZED AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT IT BE COMPACTED.
- 7. SOIL COMPACTION MUST BE MINIMIZED AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT IT BE COMPACTED.

INSPECTIONS AND MAINTENANCE

- 1. THE CONTRACTOR SHALL IDENTIFY THE INDIVIDUAL(S) CERTIFIED AS A SITE MANAGER FOR OVERSEEING IMPLEMENTATION OF, REVISING, AND AMENDING THE SWPPP AND PERFORMING INSPECTIONS.
- 2. THE CONTRACTOR SHALL IDENTIFY THE INDIVIDUAL(S) CERTIFIED AS A BMP INSTALLER FOR PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS.
- 3. INSPECTIONS WILL BE CONDUCTED AT LEAST ONE TIME PER WEEK AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.50 INCH IN 24 HOURS.
- 4. WHERE PARTS OF THE CONSTRUCTION SITE HAVE UNDERGONE FINAL STABILIZATION, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE STABILIZED AREAS MAY BE REDUCED TO ONCE PER MONTH.
- 5. WHERE WORK HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR 24 HOURS PRIOR TO RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
- 6. ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-HALF (1/2) OF THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR THEREAFTER AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- 7. SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION.
- 8. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY.
- 9. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITY IS REACHING THE INFILTRATION AREA. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE INFILTRATION AREA.

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No.	Revision	Date	By

<p>PRELIMINARY NOT FOR CONSTRUCTION</p>		<p>Maple Grove</p> <p>P: 763.493.4522 F: 763.493.5572</p>	<p>Drawn by IRR</p> <p>Checked by ANN</p>	<p>Date 5/9/2023</p> <p>Scale AS SHOWN</p>	<p>RAMSEY COUNTY DITCH 4 REPAIR RICE CREEK WATERSHED DISTRICT</p>	<p>SWPPP (1 OF 2)</p> <p>PROJECT NO. 5555-0327</p>	<p>SHEET 102</p>
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POLLUTION PREVENTION MANAGEMENT MEASURES

THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES SHALL BE IMPLEMENTED ON THE SITE AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT:

1. BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
2. HAZARDOUS MATERIALS, TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH.7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.
3. SOLID WASTE MUST BE STORED, COLLECTED AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINN. R. CH.7035.
4. PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN. R. CH.7041.
5. REASONABLE STEPS SHALL BE TAKEN 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 INFEASIBLE. FUELING MUST BE CONDUCTED IN A CONTAINED AREA UNLESS INFEASIBLE. ADEQUATE SUPPLIES MUST BE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND AN APPROPRIATE DISPOSAL METHOD MUST BE AVAILABLE FOR RECOVERED SPILLED MATERIALS. REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. § 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE.
6. WASHING THE EXTERIOR OF VEHICLES OR EQUIPMENT ON THE PROJECT SITE MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF FROM THE WASHING AREA MUST BE CONTAINED IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND WASTE FROM THE WASHING ACTIVITY MUST BE PROPERLY DISPOSED OF. STORE AND PROPERLY USE THE SOAPS, DETERGENTS, OR SOLVENTS. NO ENGINE DEGREASING IS ALLOWED ON SITE.
7. EFFECTIVE CONTAINMENT SHALL BE PROVIDED FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. THE LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND, AND THE CONTAINMENT MUST BE DESIGNED SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA RULES. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE THE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES.
8. IN THE EVENT OF A SPILL, THE CONTRACTOR WILL MAKE THE APPROPRIATE NOTIFICATION(S) TO THE MPCA, CONSISTENT WITH THE FOLLOWING PROCEDURES:

 SPILLS OF PETROLEUM IN A QUANTITY GREATER THAN 5 GALLONS MUST BE REPORTED IMMEDIATELY TO THE MINNESOTA DUTY OFFICER.

 SPILLS OF ANY QUANTITY OF ALL OTHER CHEMICALS OR MATERIALS WHICH MAY CAUSE POLLUTION OF WATERS OF THE STATE MUST BE REPORTED IMMEDIATELY TO THE MINNESOTA DUTY OFFICER.

 REPORTABLE SPILLS SHOULD BE DIRECTED TO THE MINNESOTA DUTY OFFICER BY IMMEDIATELY CALLING THE FOLLOWING NUMBERS: (651) 649-5451 OR (800) 422-0798.

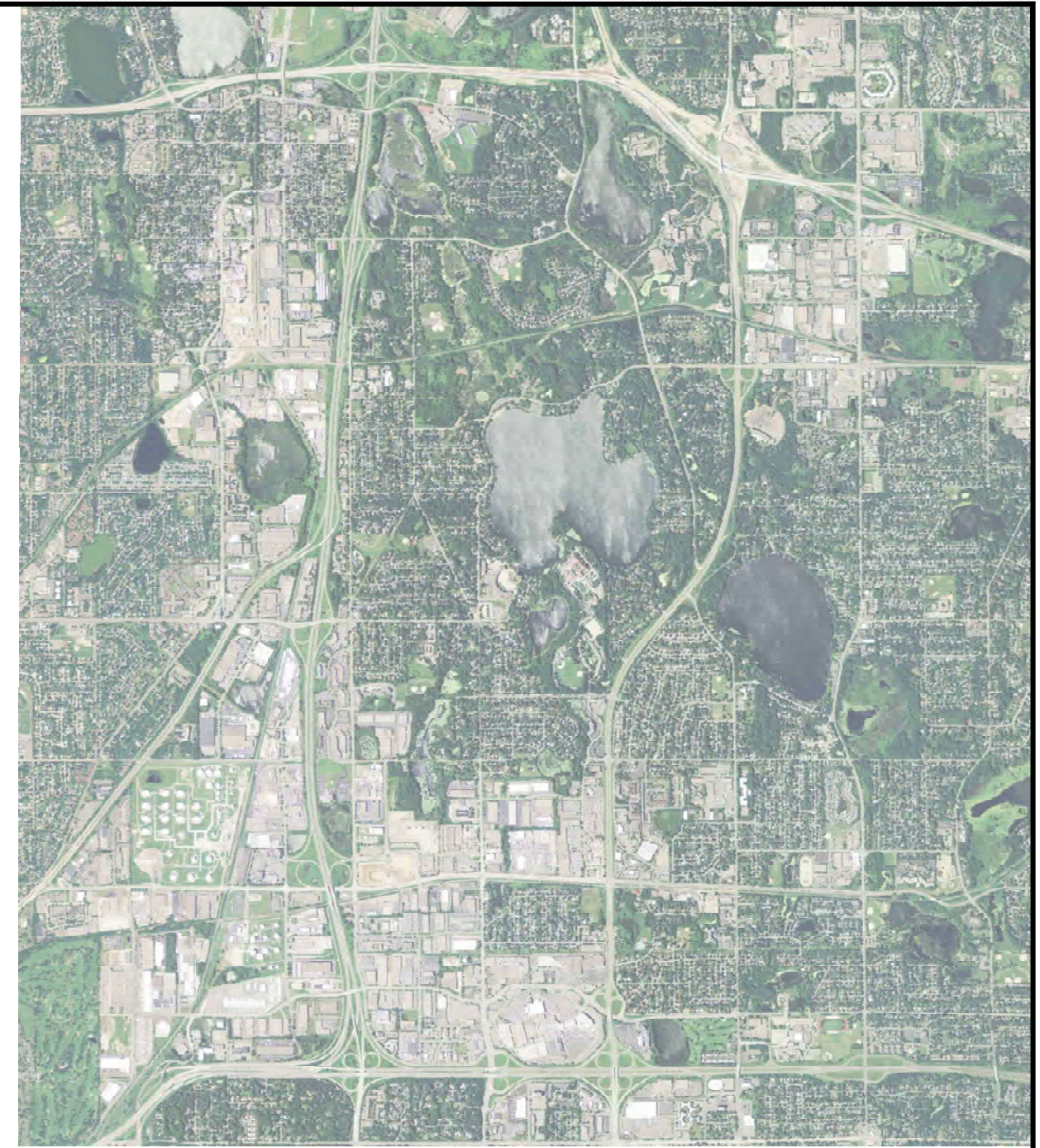
FINAL STABILIZATION

FINAL STABILIZATION IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE COMPLETE:

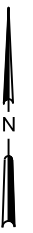
1. ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND ALL SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH DENSITY OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSION CONDITIONS.
2. ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPS (SUCH AS SILT FENCE) HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON SITE (SUCH AS SOME COMPOST LOGS) MAY BE LEFT IN PLACE.
3. FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROP, FIELD PASTURE OR RANGE LAND) THE DISTURBED LAND HAS BEEN RETURNED TO ITS PRECONSTRUCTION AGRICULTURAL USE.

AMENDMENTS

AMENDMENT/BY/DATE



VICINITY MAP



EROSION AND SEDIMENT CONTROL QUANTITY SUMMARY AND BMP SCHEDULE		
DESCRIPTION	UNITS	QUANTITY
SILT FENCE, TYPE PA*	L F	100
SEEDING & MULCH**	ACRE	4.1
EROSION CONTROL BLANKETS CATEGORY 3*	S Y	100

*SILT FENCE AND BLANKET TO BE INSTALLED AT LOCATIONS SPECIFIED BY ENGINEER
 **MN/DOT SEED MIXTURE 25-121. APPLICATION RATE: 61 LBS/ACRE

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No.	Revision	Date	By	<p>PRELIMINARY NOT FOR CONSTRUCTION</p>	Maple Grove P: 763.493.4522 F: 763.493.5572	Drawn by IRR Date 5/9/2023	Checked by ANN Scale AS SHOWN	RAMSEY COUNTY DITCH 4 REPAIR RICE CREEK WATERSHED DISTRICT	SWPPP (2 OF 2) PROJECT NO. 5555-0327	SHEET 103
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APPENDIX C: PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST

**OPINION OF PROBABLE COST:
RCD #4
RAMSEY COUNTY DITCH 4**

RAMSEY COUNTY, MINNESOTA

May 11, 2023

Item	Item Description	Unit	Quantity	Unit Price	Total Price
1	Mobilization	Lump Sum	1	\$ 15,000.00	\$ 15,000.00
2	Traffic Control & Public Safety (Recreational Trail Usage)	Lump Sum	1	\$ 8,000.00	\$ 8,000.00
3	Seeding and Mulch	Acre	4.1	\$ 4,000.00	\$ 16,346.22
4	Tree Clearing and Removal	Acre	4.1	\$ 25,000.00	\$ 102,163.90
5	Silt Fence	Lin. Ft.	100	\$ 5.00	\$ 500.00
6	Excavator/Dozer Hours	Hours	4	\$ 225.00	\$ 900.00
7	Sediment Control Log	Lin. Ft.	100	\$ 4.00	\$ 400.00
8	Erosion Control Blanket	Sq. Yds	100	\$ 4.00	\$ 400.00
9	Protection of Existing Adjacent Features (Lateral Connections, Retaining Walls, Gravel Trails)	Lump Sum	1	\$ 2,500.00	\$ 2,500.00
10	Stormwater Permit and SWPPP Compliance	Lump Sum	1	\$ 4,000.00	\$ 4,000.00
	Construction Sub-total				\$ 150,210.12
	20% Construction Contingency				\$ 30,042.02
	Engineering				\$ 45,063.04
	Legal/Admin Fee				\$ 10,000.00
	TOTAL OPINION OF PROBABLE CONSTRUCTION COST				\$235,315.18

APPENDIX D: DNR NATURAL HERITAGE REVIEW



Formal Natural Heritage Review - Cover Page

See next page for results of review. A draft watermark means the project details have not been finalized and the results are not official.

Project Name: Ramsey County Ditch #4 Repair Project

Project Proposer: Houston Engineering Inc.

Project Type: Natural Resource Management, Water Resources

Project Type Activities: Tree Removal

TRS: T29 R23 S4, T30 R23 S33

County(s): Ramsey

DNR Admin Region(s): Central

Reason Requested: Other

Project Description: The project's scope includes removal of trees and vegetation within the right of way of Ramsey County Ditch #4, located within the city of Roseville and ...

Existing Land Uses: The existing landuse of the project is the same as proposed since it is a repair of an existing ditch.

Landcover / Habitat Impacted: Trees, shrubs and vegetation will be impacted from the ditch repair.

Waterbodies Affected: The ditch goes through three different public waters: Oasis Pond, Little Johanna Lake and Johanna Lake. There are no planned impacts that will take place to the public water basins.

Groundwater Resources Affected: There are no planned impacts to any ground water resources.

Previous Natural Heritage Review: No

Previous Habitat Assessments / Surveys: No

SUMMARY OF AUTOMATED RESULTS

Category	Results	Response By Category
Project Details	No Comments	No Further Review Required
Ecologically Significant Area	No Comments	No Further Review Required
State-Listed Endangered or Threatened Species	Needs Further Review	State-protected Species in Vicinity
State-Listed Species of Special Concern	Comments	Recommendations
Federally Listed Species	Comments	RPBB High Potential Zone



March 31, 2023

Project Name: Ramsey County Ditch #4 Repair Project

Project Proposer: Houston Engineering Inc.

Project Type: Natural Resource Management, Water Resources

Project ID: MCE #2023-00267

AUTOMATED RESULTS: FURTHER REVIEW IS NEEDED

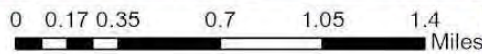
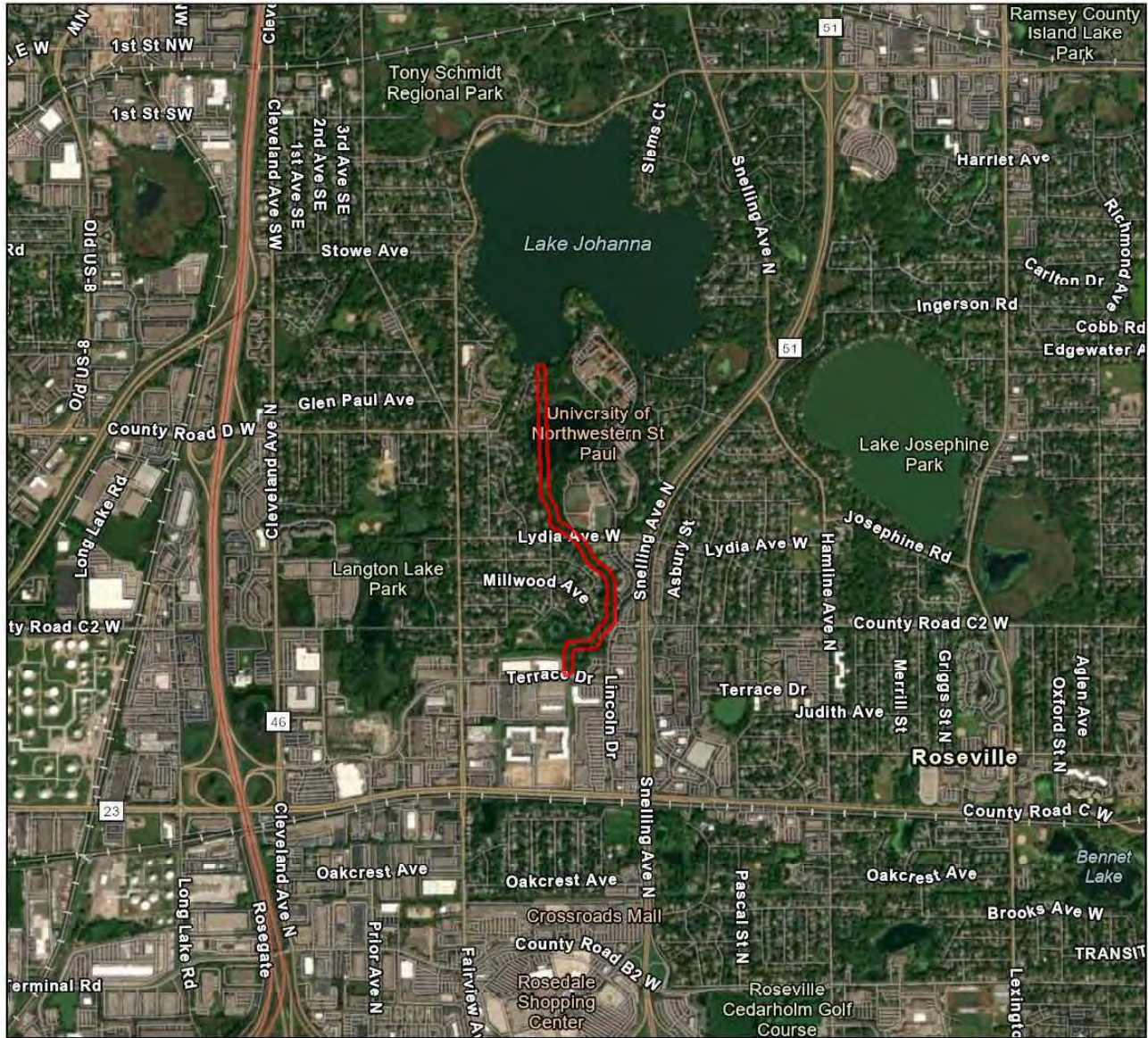
As requested, the above project has undergone an automated review for potential impacts to rare features. Based on this review, one or more rare features may be impacted by the proposed project and further review by the Natural Heritage Review Team is needed. You will receive a separate notification email when the review process is complete and the Natural Heritage Review letter has been posted.

Please refer to the table on the cover page of this report for a summary of potential impacts to rare features. For additional information or planning purposes, use the Explore Page in Minnesota Conservation Explorer to view the potentially impacted rare features or to create a Conservation Planning Report for the proposed project.

If you have additional information to help resolve the potential impacts listed in the summary results, please attach related project documentation in the Edit Details tab of the Project page. Relevant information includes, but is not limited to, additional project details, completed habitat assessments, or survey results. This additional information will be considered during the project review.

Ramsey County Ditch #4 Repair Project

Aerial Imagery With Locator Map



 Project Boundary

Project Type: Natural Resource Management, Water Resources

Project Size (acres): 14.44

County(s): Ramsey

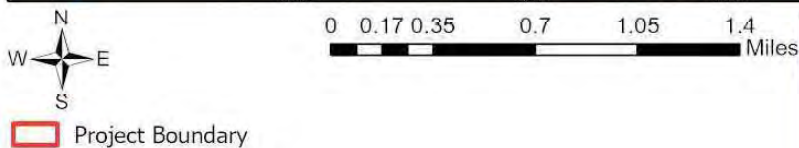
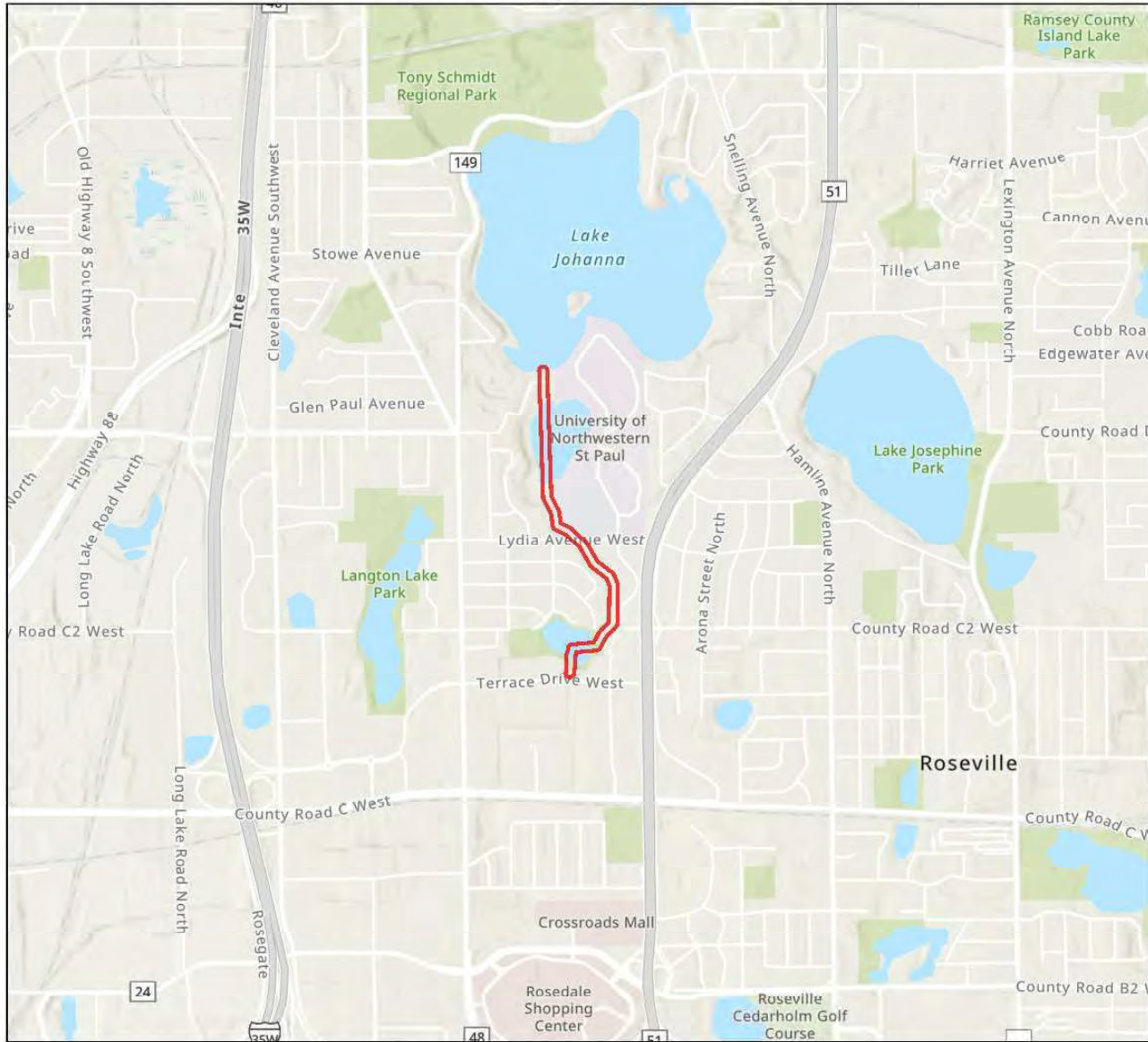
TRS: T29 R23 S4, T30 R23 S33

Earthstar Geographics
Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
Metropolitan Council, MetroGIS, Esri, HERE, Garmin, SafeGraph,



Ramsey County Ditch #4 Repair Project

USA Topo Basemap With Locator Map



 Project Boundary

Project Type: Natural Resource Management, Water Resources

Project Size (acres): 14.44

County(s): Ramsey

TRS: T29 R23 S4, T30 R23 S33

Esri, NASA, NGA, USGS, FEMA
Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
Metropolitan Council, MetroGIS, Esri, HERE, Garmin, SafeGraph,





Minnesota Department of Natural Resources
Division of Ecological & Water Resources
500 Lafayette Road, Box 25
St. Paul, MN 55155-4025

July 4, 2023

Correspondence # MCE 2023-00267

Isabella Reeve
Houston Engineering

RE: Natural Heritage Review of the proposed Ramsey County Ditch #4 Repair Project,
T29N R23W Section 4, T30N R23W Section 33; Ramsey County

Dear Isabella Reeve,

As requested, the Minnesota Natural Heritage Information System has been reviewed to determine if the proposed project has the potential to impact any rare species or other significant natural features. Based on the project details provided with the request, the following rare features may be impacted by the proposed project:

State-listed Species

- A rare caddisfly (*Oecetis ditissa*), state listed as threatened, and a jumping spider (*Paradamoetas fontanus*) have been documented nearby. The habitat use and current status of the caddisfly in Oasis Pond is unknown but juveniles are vulnerable to deterioration in water quality, especially increased siltation. The jumping spider is also not well understood but it occurs in bogs, marsh edges, and prairie. As such, effective erosion prevention and sediment control practices must be implemented and maintained near the river throughout the duration of the project and incorporated into any stormwater management plan.
- The Natural Heritage Information System (NHIS) tracks bat roost trees and hibernacula plus some acoustic data, but this information is not exhaustive. Even if there are no bat records listed nearby, all seven of Minnesota's bats, including the federally endangered northern long-eared bat (*Myotis septentrionalis*), can be found throughout Minnesota. During the active season (approximately April-November) bats roost underneath bark, in cavities, or in crevices of both live and dead trees. Tree removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies

and the pups cannot yet fly. To minimize these impacts, the DNR recommends that tree removal be avoided from June 1 through August 15.

- Please visit the [DNR Rare Species Guide](#) for more information on the habitat use of these species and recommended measures to avoid or minimize impacts. For further assistance with these species, please contact the appropriate [DNR Regional Nongame Specialist](#) or [Regional Ecologist](#).

Federally Protected Species

- The area of interest overlaps with a Rusty Patched Bumble Bee *High Potential Zone*. The rusty patched bumble bee (*Bombus affinis*) is federally listed as endangered and is likely to be present in suitable habitat within *High Potential Zones*. From April through October this species uses underground nests in upland grasslands, shrublands, and forest edges, and forages where nectar and pollen are available. From October through April the species overwinters under tree litter in upland forests and woodlands. The rusty patched bumble bee may be impacted by a variety of land management activities including, but not limited to, prescribed fire, tree-removal, haying, grazing, herbicide use, pesticide use, land-clearing, soil disturbance or compaction, or use of non-native bees. The [USFWS rusty patched bumble bee guidance](#) provides guidance on avoiding impacts to rusty patched bumble bee and a key for determining if actions are likely to affect the species; the determination key can be found in the appendix. If applicable, the DNR also recommends reseeding disturbed soils with native species of grasses and forbs using [BWSR Seed Mixes](#) or [MnDOT Seed Mixes](#). Please visit the [USFWS Rusty Patched Bumble Bee Map](#) for the most current locations of *High Potential Zones*.
- To ensure compliance with federal law, conduct a federal regulatory review using the U.S. Fish and Wildlife Service's (USFWS) online [Information for Planning and Consultation \(IPaC\) tool](#).

Environmental Review and Permitting

- Please include a copy of this letter and the MCE-generated Final Project Report in any state or local license or permit application. Please note that measures to avoid or minimize disturbance to the above rare features may be included as restrictions or conditions in any required permits or licenses.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota's rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota's rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no records may exist within the project area. If

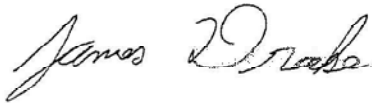
additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location and project description provided with the request. If project details change or the project has not occurred within one year, please resubmit the project for review within one year of initiating project activities.

The Natural Heritage Review does not constitute project approval by the Department of Natural Resources. Instead, it identifies issues regarding known occurrences of rare features and potential impacts to these rare features. Visit the [Natural Heritage Review website](#) for additional information regarding this process, survey guidance, and other related information. For information on the environmental review process or other natural resource concerns, you may contact your [DNR Regional Environmental Assessment Ecologist](#).

Thank you for consulting us on this matter and for your interest in preserving Minnesota's rare natural resources.

Sincerely,

A handwritten signature in cursive script that reads "James Drake".

James Drake
Natural Heritage Review Specialist
James.F.Drake@state.mn.us

Cc: Melissa Collins

ITEMS FOR DISCUSSION AND INFORMATION

2. District Engineer Update and Timeline



District Engineer - Monthly Project Report July 2023 Rice Creek Watershed District



Date Prepared:
Prepared by:

1-Aug-23
M. Sikink & C. Otterness

Project Name	Task Order Manager	Estimated Budget	Cost to Date	Remaining Budget	Project Complete / Transfer Funds?	Estimated Progress Based on Work Completed	Percentage of Budget Utilized	Within Budget? (Y/N)	District Billed for Exceedence of Budget? (Y/N)	Initial Target Completion Date	Items of Interest / Concern
Anoka County Ditch 53-62 Main Trunk Repair Design and Construction	Chris Otterness	\$111,900	\$111,641	\$259	N	95.0%	99.8%	Y	N/A	31-Dec-22	All work items have been completed other than seeding and erosion control.
MS4Front Annual Subscription and Implementation Services	Brian Fischer	\$16,000	\$1,898	\$14,102	N	58.3%	11.9%	Y	N/A	31-Dec-23	Additional implementation efforts have been completed by HEI at District staff request.
GIS and Ditch Records Maintenance	Brian Fischer	\$16,000	\$9,611	\$6,389	N	58.3%	60.1%	Y	N/A	31-Dec-23	HEI completes updates to various GIS layers utilized in MS4Front and DrainageDB.
Ramsey County Ditch 4 Repair Report	Chris Otterness	\$35,000	\$20,918	\$14,082	N	70.0%	59.8%	Y	N/A	1-Oct-22	RCWD staff has reviewed the preliminary report. HEI will present the report to the Board at a future workshop
AWJD 3 Branches 1, 2, and 4 Engineering Design and Bidding	Chris Otterness	\$54,000	\$27,089	\$26,911	N	50.0%	50.2%	Y	N/A	31-Dec-22	Project has been awarded. Work is anticipated to begin in mid- to late fall
Hansen Park FEMA LOMR Modeling Support	Chris Otterness	\$9,800	\$8,403	\$1,397	N	85.0%	85.7%	Y	N/A	31-Oct-22	HEI is continuing to prepare modeling products for use by the City of New Brighton in a FEMA submittal.
RCD 2, 3, & 5 Basic Water Management Project	Joe Lewis	\$167,500	\$116,347	\$51,153	N	65.0%	69.5%	Y	N/A	2-May-23	Preliminary plans for all three sites are continuing in development.
Centerville FEMA LOMR Modeling Support	Bret Zimmerman	\$16,900	\$23,733	(\$6,833)	N	95.0%	140.4%	N	N	31-Jan-23	HEI is reviewing comments provided by FEMA on the initial submittal
2023 District Wide Modeling Program Annual Updates	Bret Zimmerman	\$22,500	\$3,913	\$18,587	N	15.0%	17.4%	Y	N/A	1-Jul-23	HEI staff is beginning to aggregate system modifications that have occurred since the last update.
RCD 1 Records Reestablishment	Adam Nies	\$27,500	\$8,434	\$19,066	N	30.0%	30.7%	Y	N/A	31-Dec-23	Initial survey of the ditch has been completed, and an ACSIC
2023 Permit Program Compliance Audit of Level 2 Cities	Chris Otterness	\$27,500	\$16,773	\$10,727	N	90.0%	61.0%	Y	N/A	31-Dec-23	HEI staff has completed an initial review of the submitted permits. After RCWD staff input, findings will be discussed with the Cities.
RCWD Boundary Petition Assistance	Chris Otterness	\$16,500	\$6,301	\$10,199	N	40.0%	38.2%	Y	N/A	1-Mar-24	HEI has begun preparing a revised boundary based on City/WMO comments
ACD 53-62 Branches 5 & 6 Repair Report	Adam Nies	\$82,200	\$2,811	\$79,389	N	3.0%	3.4%	Y	N/A	30-Apr-23	Survey of the current ditch bottom has begun

Values in red are either potential budget concerns or changes in schedule.

The "overage" for those projects shown as "over budget" is not billed to the District. The cost to date column reflects HEI's actual internal cost. Projects are considered within budget if ± 5%.



District Engineer Monthly Progress Report (Actual & Estimated Progress) Through July 2023

