

Riley-Purgatory-Bluff Creek Watershed District
Board of Managers Regular Meeting
Wednesday, March 3, 2021 5:00pm Workshop 7:00pm Regular Meeting
Virtual Meeting via ZOOM
<https://us02web.zoom.us/j/87411665147>

Agenda

- 1. 5:00pm Call to Order Workshop**
- 2. Workshop: Upper Riley Creek Enhancement Plan** **Information**
- 3. 7:00pm Call to Order Board Meeting** **Action**
- 4. Approval of the agenda** **Action**
- 5. Summary of closed personnel meeting** **Information**
- 6. Matters of general public interest** **Information**

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

- 7. Reading and approval of minutes** **Action**
 - a. Board of Managers Regular Meeting, February 3, 2021
- 8. Citizen Advisory Committee** **Action**
 - a. Report (Sharon McCotter, CAC Representative)
 - b. Confirm March Board CAC Representative
- 9. Consent Agenda**

(The consent agenda is considered as one item of business. It consists of routine administrative items or items where discussion isn't essential to understanding. Any manager may remove an item from the consent agenda for action.)

 - a. Accept March Staff Report
 - b. Accept March Engineer's Report
 - c. Accept March Construction Inspection Report
 - d. Approve Pay Final Pay App Scenic Heights
 - e. Authorize solicitation to go out for Bid for Silver Lake Water Quality Project
 - f. Authorize President Execution Silver Lake Cooperative Agreement
 - g. Approve Silver Lake Land Use Agreement

- h. Authorize Solicitation to go out for Bid for Saint Hubert Water Quality Project pending legal approval

10. Action Items

Action

- a. Pulled consent items
- b. Accept January Treasurer's Report
- c. Approve Paying of the Bills

11. Discussion Items

Information

- a. My Water Pledge (Pedersen)
- b. Hennepin County Climate Action Plan (Pedersen)
- c. Silver Lake Shorewood Street Reconstruction (Pedersen)
- d. 2021 Work Plan (Koch)
- e. Administrator Report
- f. Manager Report
- g. Other

12. Upcoming Board Topics

- a. Soil Plan Amendment
- b. Public Hearing for Rule D and Rule F Shoreline Maintenance Amendment
- c. Stewardship Grant for Shoreline Maintenance (Permitted)
- d. Other

13. Upcoming Events

Information

- CAC Meeting, March 15, 6pm Virtual
- Board of Managers monthly work session, April 7, 5pm, Virtual
- Public Hearing Board of Managers monthly meeting, April 7, 7pm, Virtual

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

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

February 3, 2021, RPBCWD Board of Managers Monthly Meeting

PRESENT:

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

Staff: Amy Bakkum, Administrative Assistant
B. Lauer, Education and Outreach Coordinator
Claire Bleser, RPBCWD Administrator
Zach Dickhausen, Water Resources Technician II
Terry Jeffery, Watershed Planning Manager
Josh Maxwell, Water Resources Coordinator
Louis Smith, Attorney, Smith Partners

Other attendees: Andrew Aller
Leah Gilford
Greg Hawks
Elizabeth Henley
Mary Krause
Rod Rue
Marilyn Torkelson
Jeff Weiss

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

1. Call to Order

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

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2. Approval of Agenda

4 Manager Ziegler moved to approve the agenda. Manager Pedersen seconded the motion. Manager
5 Crafton requested moving item 9a – Discuss Release of Soil Plan Amendment for Public
6 Comment – ahead in the agenda to follow item 8l – Stewardship Grant Program Modification.
7 Manager Pedersen requested removing item 9bi1 – DEI Language. Manager Koch requested
8 moving item 8g – MPCA Grant Execution and Task Order 35 Eden Prairie Resiliency Project and

9 item 8j – Approve TO 6h Purgatory Creek Monitoring Station Services to the Consent Agenda
 10 and moving Consent Agenda item 7i – Release RFPs for Professional Services (Auditor,
 11 Accountant, District Engineer, Engineering Pool, Human Resources, Information Technology,
 12 Banking Services, Legal) to item 8a – Pulled Consent Items. President Ward added agenda item
 13 8w - Data Request. Attorney Smith clarified that the managers indicated approval of the changes
 14 to the agenda by unanimous consent. The managers confirmed. Upon a roll call vote, the motion
 15 carried 5-0 as follows:

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

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3. Summary of Closed Personnel Meeting

18 Manager Pedersen reported the Administrator’s review has been completed and will be discussed
 19 with the Administrator and there will be an update provided at the Board’s March monthly
 20 meeting.

4. Matters of General Public Interest

21 No matters of general public interest were raised.

5. Reading and Approval of Meeting Minutes

22 **a. December 9, 2020, RPBCWD Board of Managers Workshop and Monthly Meeting**
 23 Manager Ziegler noted an edit on line 89 to remove the word “of” and an edit on line 121
 24 to change the word “approve” to “accept.” Manager Crafton added that on lines 66 and 67
 25 the word “remains” should be changed to “remain.” Manager Pedersen moved to accept
 26 the minutes as amended. Manager Crafton seconded the motion. Upon a roll call vote, the
 27 motion carried 5-0 as follows:

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

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b. January 6, 2021, RPBCWD Board of Managers Monthly Meeting

Manager Crafton moved to accept the January 6, 2021, meeting minutes. Manager Ziegler seconded the motion. Manager Koch stated lines 40, 41, 49, and 50 don't capture the concerns he shared at the meeting, so he would like the recorder to listen to the recording and add his comments to the minutes. Manager Crafton and Ziegler noted on line 78 Manager Ziegler's name should be deleted and Manager Crafton's name added as the manager who seconded the motion. Manager Pedersen said on line 100 the word "don't" should be changed to "doesn't." Upon a roll call vote, the motion carried 5-0 as follows:

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

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6. CAC

a. CAC Report

Ms. Marilyn Torkelson reported the CAC voted unanimously for the soil health amendment. She said other key discussion items at the CAC's most recent meeting included the Lotus Lake vegetation management plan, adding the CAC was unclear on why Lotus Lake seems to be prioritized and why the project timeline includes certain vegetation work in March. Ms. Torkelson said the CAC talked about changing its

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46 meeting schedule to a different week in the month. Regarding the size of the
 47 Committee, Ms. Torkelson said the Committee is happy with an involved group of 12
 48 members, and due to potential attrition, 14 is a good number of members to be
 49 appointed to the CAC.

50 **b. CAC/Board Communication Process Approval**

51 Ms. B. Lauer explained the CAC is seeking Board clarification on what the Board is
 52 requesting from the CAC regarding meeting packet review. Ms. Lauer reminded the
 53 Board it identified the types of items it plans to send to the CAC for review and
 54 feedback. Manager Koch said the CAC has specific statutory obligations such as
 55 commenting on policies and plans. He commented he'd like the CAC to review as much
 56 of each Board meeting's packet as possible. Manager Koch summarized he doesn't
 57 want the items identified by the Board to limit what the CAC reviews and he wants the
 58 CAC to meet its statutory requirements. He encouraged the CAC members to view the
 59 Board meetings.

60 Ms. Lauer said she's hearing the Board wants the CAC to review as much of the Board
 61 packet as possible with a focus on the items the Board identified by consensus as
 62 needing the CAC's attention as well as the CAC's statutory obligations. Ms. Torkelson
 63 said the CAC will review the CAC bylaws as well. Mr. Jeffery commented about the
 64 time period requirements under which the District is required to perform permit and
 65 variance request reviews. Manager Koch and said the CAC should receive the Board
 66 packet at the same time as the Board, if not earlier.

67 **c. Appointment of New CAC Members**

68 Ms. Lauer reported the District received six applications to serve a two-year term on the
 69 CAC, noting copies of the applications are in the meeting packet. The managers
 70 discussed geographic representation of the Committee membership, and Manager
 71 Pedersen commented that having three members of the CAC from the Lotus Lake area
 72 seems like a lot. Manager Crafton agreed.

73 Manager Crafton moved to appoint Andrew Aller, Rodney Batiza, Samuel Griffin, Jeff
 74 Weiss, and Jessica Wiley. Manager Pedersen seconded the motion. Upon a roll call
 75 vote, the motion carried 5-0 as follows:

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

- 76 **d. February CAC Meeting Board Representative**
- 77 Manager Pedersen volunteered to be the Board representative at the CAC’s February
- 78 meeting.

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7. Consent Agenda

80 Manager Koch moved to approve the Consent Agenda [as amended in agenda item 2] with the
 81 resolutions as set forth in the staff report. Manager Pedersen seconded the motion. The Consent
 82 Agenda included items 7a – Accept January Staff Report, 7b – Accept January Engineer’s Report,
 83 7c – Accept January Construction Inspection Report, 7d – Approve Pay App 6 Bluff Creek
 84 Tributary, 7e – Approve Pay App 6 Lower Riley Creek, 7f - Approve permit application #2020-
 85 067, Conifer Trail Outlet as Presented in the Proposed Board Action of the Permit Report, 7g –
 86 Approve Permit Application #2020-068, Minnetonka High School Einer Anderson Field
 87 Improvements as Presented in the Proposed Board Action of the Permit Report, 7h – Approve
 88 Permit Application #2020-072, Erhart Wetland Alteration as presented in the Proposed Board
 89 Action of the Permit Report, 7j – Approve Survey Work for Pioneer Trail Project, 8g – MPCA
 90 Grant Execution and TO 35 Eden Prairie Resiliency Project, and 8j – Approve TO 6h - Purgatory
 91 Creek Monitoring Station Services

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

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

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8. Action Items

- 95 **a. Items Pulled from Consent Agenda**
- 96 **i. Release RFPS for Professional Services (Auditor, Accountant,**
- 97 **District Engineer, Engineering Pool, Human Resources, Information**
- 98 **Technology, Banking Services, Legal)**

99 Manager Koch said he asked to pull this item from the Consent Agenda because
 100 of the Auditor, Engineering Pool, and Legal Services RFPS. He commented the

101 RFPs aren't sufficiently detailed to give a prospective bidders enough initial
102 information to decide whether to submit a proposal. Manager Koch
103 recommended the District Administrator revise those three RFPs with
104 additional information such as the details included in the RFPs for the other
105 District services. He said he needs to know how the District will go about
106 circulating these RFPs. Manager Koch remarked circulating these RFPs in local
107 newspapers aren't sufficient for professional services and circulation should be
108 broader than the southwest corner of the metro area. He recommended
109 contacting professional associations and publishing them in broader-based
110 newspapers. Administrator Bleser talked about the District's typical
111 methodology of distributing the RFPs. Attorney Smith noted that the District is
112 required to solicit for professional services every two years. He stated his sense
113 is that many of the engineering firms that work with watersheds track the
114 watershed websites. Attorney Smith said he believes some watersheds publish
115 RFPs in Finance & Commerce and The State Register and that the League of
116 Minnesota Cities has an outlet for publishing RFPs.

117 Manager Koch moved to direct that the RFPs for the auditor, legal services, and
118 engineering pool be expanded substantially by the District Administrator to
119 follow suit of the RFPs for the HR, District Engineer, and Accountant RFPs
120 and direct the District Administrator to look for appropriate places to publish
121 the RFPs and report back to the Board at the Board's next meeting. The motion
122 died due to lack of a second.

123 Manager Pedersen recommended the District include experience in employment
124 law as one of the criteria for HR services. Manager Koch moved to direct the
125 managers to submit their proposed changes to the RFPs to the Administrator
126 and direct the Administrator to research possible channels for distributing the
127 RFPs and to report back about the revised RFPs and distribution channels at the
128 Board's next meeting. The motion died due to lack of a second. There was
129 discussion about the RFPs' content. Manager Crafton said she has questions
130 about the responsibilities of the HR services provider.

131 Manager Crafton moved to authorize staff to release all the RFPs except for the
132 HR services RFP. Manager Pedersen seconded the motion. Manager Ziegler
133 suggested the District distribute the RFPs through the League of Minnesota
134 Cities and said staff can look into that possibility as well as other possible
135 channels of distributing the RFPs and make the decision on which channels to
136 use in addition to the District's official publications, if any. Manager Crafton
137 called the question on the motion on the table. President Ward called for the roll
138 call vote. There was discussion about the procedure for calling the question.
139 Manager Crafton withdrew her motion to call the question. Manager Koch
140 moved to amend the motion to add the HR RFP to the motion. The motion to
141 amend the motion failed due to lack of a second.

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

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

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b. Accept December Treasurer’s Report

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Manager Crafton stated the report has been reviewed in accordance with internal controls and procedures and she moved to accept the December Treasurer’s Report. Manager Ziegler seconded the motion. Manager Koch said he would like a discussion of each of the 2020 budget items that were over budget, starting with accounting and auditing. Manager Koch said the District’s contracts should have not-to-exceed amounts and there is no excuse for going over any of these budget items and certainly not without being brought to the Board’s attention and getting approval. He commented it appears to him the District is just allowing the accountants to charge any amount they want. Manager Koch said on that point he thinks the District way overpays for the services the District receives from the accountants to do a simple compilation process that can be accomplished for a lot less money by a third party that solely enters data and generates monthly and quarterly payments. He said the District needs to get a handle on its auditing and accounting. Manager Crafton talked about the accounting costs to the District as reflected in the December Treasurer’s Report. Manager Koch said the \$31,000 the District has budgeted for accounting services for 2021 is too much and should be looked into.

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Manager Koch asked for information on why the District’s 2020 Legal Services budget was 22% overbudget and specifically asked Attorney Smith to comment. Attorney Smith summarized three areas of legal services work for the District in 2020 that were the main reasons for the budget overrun: personnel/human resources, governance/governing documents, and data practices requests. Manager Koch asked Attorney Smith to provide the Board with more details and information so the Board can address the issues.

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Manager Koch asked for details about the 2020 expenditures for permit review and inspections. He talked about 2020 permit revenue and said the calculations he

173 performed indicate the District came in slightly underbudget for permit review and
 174 inspections. Manager Koch asked for a project status update on the Bluff Creek
 175 Tributary project. Engineer Sobiech stated remaining tasks include this spring's
 176 vegetation management work, production and installation of buffer signage , and the
 177 release of the remaining retainage. Manager Crafton asked for details about the transfer
 178 request amount for this project. Administrator Bleser said the transfer will be a
 179 carryover into 2021.

180 Manager Koch asked for a project status update on the Lake Riley restoration/Lake
 181 Riley. Administrator Bleser provided an update, talking about the funding contribution
 182 received in the amount of \$253,148 from the City of Eden Prairie, explaining the
 183 contribution isn't reflected in the beginning number in the Treasurer's Report.

184 Manager Koch asked staff to explain the negative numbers on page three, the multi-year
 185 performance report and said he wants to know if the negative numbers mean the items
 186 went over budget. Administrator Bleser said yes, and she provided information about
 187 the wet and challenging site issues for Lake Riley and the Board-approved change order
 188 in 2020.

189 Manager Koch asked for details about grants funds the District has received.
 190 Administrator Bleser talked about grants for which the District has received 50% of the
 191 funds. Manager Koch said it would be helpful to him if the Treasurer's Report would
 192 include a column showing the remaining grants in order to provide an idea of the
 193 remaining obligation of the District . Manager Koch had several other questions for
 194 Administrator Bleser about grant money received, total capital available for operations,
 195 how much money the District is obligated to pay in the future for projects, and he said
 196 he would like to be able to see this information in the Treasurer's Report. Manager
 197 Koch commented that he has spoken with several accountants and reporting
 198 expenditures as Visa activities is not generally accepted accounting practices. He said if
 199 the District accountant disagrees, he would like to have something in writing from them
 200 on that basis. Manager Koch asked about the expenditures to the City of Eden Prairie
 201 and the City of Chanhassen listed in the December Treasurer's Report, and
 202 Administrator Bleser provided information about the expenditures.

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

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

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c. Paying of Bills

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

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

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d. Approve Fund Transfers

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Manager Ziegler moved to approve the fund transfers as listed by staff. Manager Crafton seconded the motion. Manager Koch asked about the amount of the fund transfer request for Bluff Creek and the additions for Riley Creek. Administrator Bleser provided details. Manager Koch moved to amend the motion to modify the transfer amount for Bluff Creek to \$11,130.01. Managers Ziegler and Crafton accepted Manager Koch's motion as a friendly amendment.

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

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

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221 e. Approve Duck Lake Cooperative Agreement

222 Attorney Smith said the meeting packet contains a document worked on by District staff
223 and the District Engineer and the Eden Prairie City Engineer and City Attorney. Attorney
224 Smith shared on the meeting screen the most recent version of the Cooperative
225 Agreement, describing additional revisions being requested by the City of Eden Prairie.
226 He explained the City would like the review and approval of the project design confined
227 to issues within the District's permit jurisdiction and everything else to be review and
228 comment. Attorney Smith stated that configuration of review and approval and review
229 and comment is not the language the District and its legal counsel have proposed based
230 on the understanding that the District's interest in the project design is still very focused
231 on water resources issues, but there are water resources aspects of the project beyond the
232 scope of the District's regulatory authority and about which the District is interested in by
233 virtue of the financial contribution the District is making to the project.

234 Attorney Smith talked about the review and approval of the 90% design as addressed in
235 the draft cooperative agreement. He recommended, based on discussion with Engineer
236 Sobiech, the District retain approval of the other hydraulic and shoreline design aspects
237 that are not part of the District's permitting authority. Engineer Sobiech said he concurs
238 with Attorney Smith's comments. Manager Koch suggested a phased agreement.
239 Engineer Sobiech summarized the current status of the design and talked about the design
240 process. Manager Crafton asked the City to comment.

241 Mr. Rod Rue said there are a lot of elements of the project outside the scope of the
242 District's permitting requirements. He said the City is willing to allow the District to
243 provide any comments and approvals on the issues related to the permits. He said the City
244 is willing to provide a 60% plan, which should be available in the next few weeks, for the
245 District's administrative review and approval.

246 Manager Koch moved to table this item with direction to staff to bring it back to the
247 Board when 60% design drawings are available and to direct staff and legal counsel to
248 look into funding with triggers and conditions to payments and direct staff and legal to
249 review section 2d regarding maintenance and bring information back to the Board about
250 who is responsible for maintenance. The motion died due to a lack of a second.

251 Manager Crafton asked for more information from staff about the implications if the
252 District accepts entering into this cooperative agreement. Engineer Sobiech said the
253 District wants to make sure it gets what it is paying for in terms of habitat restoration and
254 not just items tied to the watershed permit. He said his understanding is the funds are
255 being used to restore the lakebed and the District wants to make sure it has the
256 opportunity to review and approve all the habitat restoration pieces.

257 Manager Ziegler moved to approve the Cooperative Agreement with the changes
258 recommended by Engineer Sobiech. Manager Pedersen seconded the motion. Attorney
259 Smith stated he takes the intent of the motion to be to reject the City's proposed changes
260 to section 2a so that the District's review of the 90% design is not confined to only the
261 issues in the permit but addresses the issues in the design that relate to the habitat and
262 other benefits that are the basis for the District's financial contribution.

263 Attorney Smith raised a separate issue regarding the amount of the District’s
 264 contribution totaling \$1,175,000, which was based on the proposed project cost of
 265 \$4,700,000. He said the District proposed language in the Cooperative Agreement
 266 documenting that if the total project cost ends up less than the proposed cost, the
 267 District’s contribution would be reduced proportionately. Attorney Smith pointed out the
 268 City is requesting that if the District’s contribution is reduced, that it be deducted in the
 269 fifth and final payment. He said it is a cash flow point. Attorney Smith noted that the
 270 District’s understanding is that the estimated total project cost is \$4,700,00, and the
 271 qualifier the City’s language addresses is that if the amount of the contract awarded by
 272 the City for the construction of the project is more than 5% lower than the estimate, then
 273 the District’s funding portion would be reduced proportionately. He said he has heard that
 274 calculations can be cumbersome, and he asked Engineer Sobiech to comment.

275 Engineer Sobiech concurred with Attorney Smith regarding the District wanting to have
 276 any cost reduction based on the total project cost rather than the construction cost. He
 277 said he hasn’t seen an updated construction cost estimate to know what a 5% reduction
 278 from construction costs might be, so he suggests using the total project cost. He said he
 279 knows it can be cumbersome to go through all the records and come up with the total
 280 project cost, but it is doable.

281 The managers discussed the points raised by Attorney Smith and Engineer Sobiech.
 282 Manager Koch commented it would be ill-advised for any private sector to enter into an
 283 agreement such as this because it is not an adequate agreement. Manager Pedersen made
 284 the friendly amendment to the motion on the table to reject the proposed redline changes
 285 to section 3b but keep the variation on section 3a and clarify the District’s position that
 286 the payment reduction can be made in the fifth and final payment. Manager Ziegler and
 287 Manager Pedersen accepted the friendly amendment.

288 Attorney Smith went through the proposed redline changes in section 6a – publicity and
 289 endorsement. Manager Pedersen commented that she wants to make sure the District will
 290 be part of any publicity around the project. Attorney Smith said he believes that is the
 291 way this agreement reads. Upon a roll call vote, the motion carried 4-1 as follows:

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

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294 **f. Approve Task Order 34 – Lake Vegetation Management Plan for Lotus Lake**
 295 Administrator Bleser explained this task order is for the lake vegetation management
 296 plan for Lotus Lake and formalizes how to proceed with management such as for
 297 curlyleaf pondweed. Engineer Sobiech added that the work in this task order sets the
 298 framework regarding what types of management activities may be required moving
 299 forward and when to move forward in terms of implementation and aquatic plant
 300 management.

301 Manager Crafton moved to approve Task Order 34 – Lotus Lake - Lake Vegetation
 302 Management Plan in agreement with the engineering services. Manager Ziegler
 303 seconded the motion.

304 Manager Pedersen asked why the cost of this task order is more expensive than other
 305 lake vegetation plans recently done by the District. Engineer Sobiech said the previous
 306 vegetation management plans were done by Wenck, and he doesn't have Wenck's task
 307 order and the detail contained in it, so he is not sure about differences in scope. He said
 308 the two lakes that have had the lake vegetation management plans, Red Rock and
 309 Mitchell lakes, are adjacent to each other and there are cost efficiencies with doing
 310 some of the activities together. Administrator Bleser added that the work with Wenck
 311 was performed in partnership with the City of Eden Prairie and the BMPs were done
 312 through the District's research grants through Dr. Ray Newman. There was discussion
 313 about why the District is doing a lake vegetation management plan for Lotus Lake.

314 Manager Pedersen asked if the District has approached the City of Chanhassen about
 315 putting in dollars for this work. Administrator Bleser responded no, but she can ask the
 316 City if it wants to partner. Manger Pedersen said she would like the District to ask the
 317 City to participate in the cost of this task order.

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

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

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 320 [*Prior to voting Manager Koch commented that he lives on Lotus Lake].

321 **g. MPCA Grant Execution and TO 35 Eden Prairie Resiliency Project**
 322 [Item moved to Consent Agenda. See Item 7.]

323 **h. Saint Hubert Reuse System Updated and Reuse System Opportunity**
 324 Administrator Bleser reported an opportunity is in front of the Board regarding adding
 325 water reuse as a design component to this project. She said the water could be captured
 326 and reused in irrigation. Administrator Bleser and Ms. Leah Gilford described the
 327 benefits and estimated cost of the reuse component, noting the details contained in the
 328 memo in the Board’s meeting packet. Ms. Gilford said that at this point in the design, it
 329 is necessary to know if the Board would commit to adding a reuse system to this
 330 project. She explained if the Board doesn’t want to add the reuse system, that
 331 component and its associated cost of \$55,000 would be removed from the design.

332 Manager Pedersen asked if she is reading the information correctly and the school is
 333 looking for another \$168,000. Ms. Gilford said yes.

334 Manager Koch said he is concerned about putting a lot of money into a religious
 335 institution. He said he would like to receive the information, which he didn’t see
 336 included in the electronic meeting packet, and stated that without reviewing all the
 337 information he isn’t ready to vote.

338 Manager Koch moved to direct staff to take into consideration different costs and
 339 systems in order to have data for comparison to consider how much money the District
 340 may want to put toward a project and then bring the alternatives back to the Board.
 341 Manager Ziegler seconded the motion with the friendly amendment to send this item to
 342 the CAC for review and feedback to the Board. Manager Koch accepted the friendly
 343 amendment. Administrator Bleser and the managers talked about the different types of
 344 alternatives the Board is interested in considering regarding improving or saving
 345 groundwater as part of this project.

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

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

348 Administrator Bleser clarified the Board agrees project design work can continue
 349 without looking at the reuse component and staff should bring this item back at the
 350 Board’s March or April monthly meeting. The Board indicated agreement.
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i. Approve Task Order 36A – Bluff Creek Reach 5 Stabilization Feasibility Study

Administrator Bleser said she and Engineer Sobiech walked the creek last October and identified this reach as needing stabilization as included in the District’s 10-year plan. She said this task order is the first step in the restoration of this reach. She stated the feasibility study would be presented to the Board and the CAC.

Manager Pedersen moved to approve Task Order 36A for the Bluff Creek Reach 5 Feasibility Study. Manager Crafton seconded the motion. Upon a roll call vote, the motion carried 5-0 as follows:

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

j. Approve Task Order 6h – Purgatory Creek Monitoring Station Services

[Item moved to Consent Agenda. See Item 7.]

k. Approve Release of Shoreline Rules Amendment for Public Comment

Mr. Jeffery stated the amendment to the shoreline rules is meant to address the situations in which rip rap already exists but needs maintenance and in the decayed state is introducing sediment into the water column. He said it is not meant to provide for expanding the rip rap but to provide for installing it per specification. Mr. Jeffery referenced the memo included in the meeting packet.

Manager Koch said he’s not sure if the erosion intensity scoresheet the District uses reflects the current status of the industry and said the District needs to look at intensity and the scoresheet. Mr. Jeffery said the scoresheet could be addressed separately from the rules. He talked about information he and Engineer Sobiech have been gathering about erosion intensity and said he would like erosion intensity to be handled separately.

Manger Ziegler moved to direct staff to release the shoreline rules for public comment. Manager Pedersen seconded the motion.

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

383

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

384

385 **I. Stewardship Grant Program Modification (Inclusion of Maintenance for**
 386 **Eligible Expenses)**

387 Ms. Lauer said staff recommends the District amend its watershed stewardship grant
 388 policies to add to the list of eligible costs maintenance costs during the establishment
 389 period of three years for non-profit and residential applicants. She stated additional
 390 recommendations are to raise the total funding monetary limits by 30% for residential
 391 and non-profit applicants who provide proof of a professional maintenance plan and
 392 contract at the time of application. She noted a typo in the memo and clarified that
 393 funding would be up to 75% of eligible maintenance costs. She responded to manager
 394 questions.

395 Manager Koch moved to approve the proposed changes to the watershed stewardship
 396 grant program as set forth in the memo presented and included in the meeting packet
 397 with the caveat that the payment for the costs for maintenance be treated as other costs
 398 and on a reimbursement basis and that the typo noted by Ms. Lauer be corrected.

399 Manager Ziegler seconded the motion. Upon a roll call vote, the motion carried 5-0 as
 400 follows:

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

401 **m. Soil Health and Soil Health Plan Amendment**
402 Mr. Jeffery reported the CAC was overwhelmingly in favor of the soil health plan
403 amendment. He summarized the CAC's discussion about the proposed plan amendment,
404 including the recommendation to strengthen language about the total ecosystem. Mr.
405 Jeffery said another recommendation is to add to the plan amendment language about
406 the four or five regenerative soil health parameters. He suggested that staff rework the
407 amendment based on the CAC's comments and bring the revised amendment back to
408 the CAC for comment and then bring the amendment to the Board. The Board indicated
409 consensus with Mr. Jeffery moving forward with the actions he recommended.

410 **n. Variances**
411 Manager Koch noted his memo is self-explanatory and commented he's sure the District
412 will receive more variances again in 2021. He said he is interested in making the
413 variance process as efficient as possible. Manager Koch moved subject to approval by
414 the District's legal counsel to direct staff to use substantially the resolution set forth in
415 his memorandum dated December 27, 2020, and include it in all requests for variances.
416 The motion died due to lack of a second. Manager Koch responded so noted.

417 **o. Accounting Clerk**
418 Manager Koch said his memorandum on this item is straightforward and he feels work
419 and assistance is needed to deal with the accounting. He referenced a proposed internal
420 procedure for dealing with District bills, remarking he extensively edited the proposal.
421 Manager Koch stated the Board should approve looking for an administrative
422 accounting clerk to speed things up. He said he thinks the District is spending way too
423 much money on accounting data entry. Manager Koch moved the resolution set forth in
424 his memo that the District inquire into the use of an accounting clerk and staff bring the
425 information back to the Board. The motion died due to lack of a second.

426 **p. Audit and Risk Committee**
427 Manager Koch said this item is self-explanatory and it is obvious the Board needs an
428 audit and risk committee to deal with the District audits and financial reporting. He said
429 he thought the last audit was totally unprofessional and inadequate and it takes more
430 than one set of eyes to look over the audit and the audit processes. Manager Koch
431 moved to appoint an audit committee consisting of two managers-the Treasurer and
432 himself, the District Administrator, and the District auditor with the two managers
433 having a vote for the purposes of reviewing the District's auditing and reporting
434 procedures and making recommended changes. The motion died due to lack of a
435 second. Manager Koch remarked so noted.

436
437 **q. Professional Coach**
438 Manager Koch said the District has previously engaged a coach to assist Dr. Bleser, and
439 he moved to look into hiring a coach for Dr. Bleser on the same terms as last year. The
440 motion died due to lack of a second.

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r. Disaster Preparedness Plan

Manager Koch referenced his memo on the topic and moved the resolution set forth in his memorandum. The motion died due to lack of a second.

s. Internal Control Calendar

Manager Koch said his memorandum on this topic is straightforward, and he believes there needs to be an internal calendar to make sure the District meets its deadlines. He noted that several deadlines have been missed. Manager Koch moved adoption of the resolution set forth in his memorandum. The motion died due to lack of a second. Manager Koch remarked duly noted.

t. Legal Review of Operations

Manager Koch said this memorandum refers to a legal review previously authorized by the Board but was not completed. Manager Koch noted that the Governance Manual still has not been completed in accordance with the law. Manager Koch moved to ratify the approval of Smith Partners to perform a legal review of the District's operation at a cost not to exceed \$5,000. The motion died due to lack of a second. Manager Koch responded so noted.

u. Minnesota Data Practices Act

Manager Koch said the resolution is straightforward, and the District is required to have a Chief Administrative Officer and is required to keep official records and is required to have a chief clerical officer or responsible authority. He moved the adoption of the resolution, which calls for designating the District Administrator as the Chief Administrative Officer, the District Secretary as the Chief Clerical Officer and designates the District Secretary as the responsible authority to take actions necessary and appropriate for compliance with the requirements of Minnesota Statutes Chapter 13, and be the said responsible authority, and the District Secretary and Administrator draft and implement a procedure for processing data requests pursuant to Minnesota statutes Chapter 13, and directs the District Administrator to create and maintain a District minute book. The motion died due to lack of a second.

v. Minute Book

Manager Koch referenced MN statute about the District maintaining records and a journal of votes. He said at a minimum the District should have a minute book containing all the minutes. Manager Koch moved to adopt a physical if not electronic minute book that has the final minutes for all the District's meetings. The motion died due to lack of a second.

Reports on Multi-Year Projects

Manager Koch referenced his memo on this item and said the current multi-year project table is confusing to him. He said it doesn't easily show the remaining District's share of remaining District costs on projects. Manager Koch moved to adopt his resolution to revise the multi-year project table to indicate what the District's share is for the current

486 year and for future years. President Ward seconded the motion.
 487 Upon a roll call vote, the motion carried 3-2 as follows:

488

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

489

490 **w. Data Practices Request**

491 Attorney Smith explained typically all data practices requests would go to the District
 492 Administrator as the responsible authority. He said he has received a request from Dr.
 493 Bleser as the Administrator. He explained the Board of Managers is the authority to
 494 decide how to respond to the request. Attorney Smith described the request, discussed
 495 the law, and outlined options for the Board’s consideration. He stated that Smith
 496 Partners reviewed the law regarding access to the information requested and his legal
 497 view is it’s private data on an individual and accessible to the subject of that data, in this
 498 case Dr. Bleser.

499 Attorney Smith described his review of advisory opinions from the Minnesota
 500 Department of Administration and stated he believes the Department would also be
 501 supportive of the idea that the data is classified as private data on an individual and
 502 accessible to the subject of the data. He said to his knowledge there is not an opinion
 503 that directly addresses this data request. Attorney Smith said the Board has heard his
 504 legal view and the Board has the option to seek another legal opinion and/or an opinion
 505 from the Minnesota Office of the Attorney General.

506 Attorney Smith clarified that the conclusion of the District’s legal counsel is the
 507 recordings are accessible and should be released. Manager Koch said his opinion is that
 508 there is no option but to release them. Manager Pedersen asked for details about the
 509 process of asking the Office of the Attorney General for an opinion. Attorney Smith
 510 described the process, which includes the District’s legal counsel preparing a letter with
 511 the question and sending it to the Attorney General’s office for review. Manager
 512 Pedersen spoke in favor of getting an opinion from the Attorney General. Manager
 513 Crafton and President Ward agreed with the idea of getting an opinion from the
 514 Attorney General. Manager Koch said he doesn’t see the purpose behind the cost of the
 515 work for getting an opinion from the Attorney General when the Board has received
 516 Attorney Smith’s opinion.

517 Manager Pedersen moved to direct Smith Partners to proceed with this matter to get an
 518 answer from the Attorney General’s Office. Manager Crafton seconded the motion. .

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

520

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

521

9. Discussion Items

522 **a. Manager Reports**

523 Manager Pedersen said a Personnel Committee meeting will be scheduled for the purpose
 524 of discussing the personnel handbook.

525 **b. Administrator Report**

526 No items discussed.

527 **c. Other**

528 No items discussed.

529

10. Upcoming Board Topics

530 President Ward noted the Board workshop originally scheduled for this evening and
 531 postponed will be rescheduled in the next few weeks. He said the soil amendment topic
 532 likely will be covered at a Board workshop in March and the Board’s next monthly
 533 meeting will be held March 3.

534 Manager Ziegler brought up the topic of bi-monthly meetings and asked if the Board
 535 wants to consider the idea. President Ward suggested the Board consider a mid-month
 536 meeting and directed staff to add this topic as an action item on the Board’s March
 537 monthly meeting.

538 Manager Pedersen asked for an update on the hiring for the new District positions
 539 approved by the Board. Administrator Bleser provided an update on the hiring for the
 540 grants coordinator, noting the timing of the next interviews. She provided an update on

541 the new hire for the soil inspection and technician role.

11. Upcoming Events

- 542
- Shoreline Management Webinar, February 24, 6:00 p.m. – 7:30 p.m., virtual meeting
- 543
- Board of Managers Monthly Work Session, March 3, 2021, 5:00 p.m., virtual meeting
- 544
- Board of Managers Regular Meeting, March 3, 2021, 7:00 p.m., virtual
- 545

12. Adjournment

546 Manager Pedersen moved to adjourn the meeting. Manager Crafton seconded the motion. Upon a
547 roll call vote, the motion carried 5-0 as follows:

548

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

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550 The meeting adjourned at 10:25 p.m.

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Respectfully submitted,

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David Ziegler, Secretary

rough Draft Minutes: Monday, February 22, 2021
RPBCWD Citizens' Advisory Committee Monthly Meeting
Virtual Via Zoom

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

| | | | | | | | |
|---------------|---|----------------|---|--------------------|---|---------------|---|
| Andrew Aller | P | Samuel Griffin | P | Terry Jorgenson | E | Jeff Weiss | P |
| Rodey Batiza | P | Heidi Groven | P | Sharon McCotter | P | Jessica Wiley | P |
| Kim Behrens | P | Michelle Frost | P | Jan Neville | P | | |
| Jim Boettcher | P | Peter Iverson | E | Marilynn Torkelson | P | | |

| | | |
|------------------|--------------|---|
| Claire Bleser | RPBCWD staff | P |
| B Lauer | RPBCWD staff | P |
| Amy Bakkum | RPBCWD staff | P |
| Dorothy Pederson | BOM | P |
| | | |
| | | |

Key MOTIONS for the Board of Managers:

1. Unanimously elected Heidi Groven as Chair with Jim Boettcher as Vice Chair..
2. A motion was unanimously approved to adopt an initial 2 year commitment from new members of the CAC and update bylaws accordingly, pending approval by the BOM.

Key discussion items:

1. We brainstormed groundwater conservation ideas, other than a below ground cistern, at St. Hubert's School. B to place the suggestions in the board packets.
2. Google Jamboard was used to brainstorm learning presentation ideas.

I. Opening

- A. Call CAC meeting to Order:** Vice-Chair Heidi called the meeting to order at 6:16 pm (after introductions).
- B. Attendance:** As noted above.
- C. Matters of general public interest:** None
- D. Approval of Agenda:** Andrew moved and Sharon seconded to approve the agenda. Motion carried.
- E. Approval of January, 2021 CAC Meeting Minutes:** Jan moved and Jim seconded to approve the minutes. Motion carried. Sharon, Michelle (who were excused from the January meeting) and all new members abstained.

II. Board Meeting Recap and Discussion -

- A.** Highlights from the February managers meeting-Marilynn-Lotus Lake Vegetation Management Plan was approved. Claire to determine whether the City of Chanhassen will partner with the project.

BOM approved a Water stewardship grant (WSG) amount increase of 30% for people willing to commit to a 3 year professional maintenance plan.

BOM approved Bluff Creek Reach 5 Stabilization Feasibility 353 Study as part of the 10 year plan.

RFP went out(Auditor, Accountant, 96 District Engineer, Engineering Pool, Information 97 Technology, Banking Services, Legal) BOM to revise Human Resources RFP.

Should CAC Review BOM minutes in full. BOM asks that we Review BOM packets paying particular attention to the following 4 items Grants, Education & Outreach (E&O) strategies, Capital Improvement Projects (CIPs) and items related to 10 yr management plans

B. **Response on CAC recommendation to the Board?** Lotus Lake Vegetation Management Plan was approved, Soil Health Amendment to 10 year plan approved

New Advisory Topics from the Board? St. Hubert Water Conservation

Questions from CAC and/or highlights (if needed) - B -none

III. **Program and Project Updates; Staff Engagement with CAC; CAC Business –**

A. New Advisory Topics Recommendations for Board of Managers

1. **Groundwater conservation at St. Hubert**

Claire gave an overview of the project, including Four major components: habitat restoration/outdoor classroom with walking path, tree trenches to capture stormwater from the parking lot , rain garden and gully repair. SRS revealed the opportunity to install infrastructure so that a water reuse system can be implemented to capture roof stormwater runoff and hold in cistern to irrigate soccer fields. BOM decided not to go ahead because of the high cost of a below ground cistern. B collected Groundwater conservation suggestions for this site.

Suggestions included a Smart irrigation controller, fescue or bee lawn conversion of playing field, phytoremediation, conversion of drinking fountain to fill water bottles, education stations at walking paths, additional rain gardens, scientific but fun messaging, pervious pavements not practical because of the clay soils, green roof/growing food on roof, downspout planters, raised bed vegetable gardens, Launch party/grand opening. Way to capture the water from the roof and move to the fields (open aqueducts). B to include these suggestions in the BOM packet.

B. **2021 CIP and 10 Year Plan project overview** Claire gave an overview of ongoing, upcoming and recently completed projects throughout the district. Much of this information can be found in the Annual Communication Report. Bluff creek tributary restoration, wetland restoration at Pioneer Trail to increase flood storage, Bluff Creek behind KwikTrip feasibility to restore creek and reduce erosion.

Alum treatment completed on Lake Riley, monitor results. Rice Marsh Lake BOM approved Rice Marsh Lake water quality improvement. Reach 3 Riley Creek, Middle Riley Creek in partnership with Bearpath Golf Course, Upper Riley corridor enhancement plan in Chanhassen to restore and build resiliency. St. Hubert's Catholic School campus erosion reduction, tree trenches, rain garden, habitat restoration, SW station Eden Prairie retain berm function AND carp removal location. Silver Lake south side ravine stabilization and restoration. Finished restoration at Scenic Heights Elementary School. Highland Lake 2nd alum treatment. Lotus Lake ravine.

Duck Lake in partnership with Eden Prairie to remove Duck Lake Road where it divides Duck and install a bridge to reconnect the west and east sections of the Lake.

C. CAC Process and Function

1. Discussion about CAC Chair - Sharon motioned and Andrew seconded for Heidi to serve as Chair and Jim as Vice Chair for the CAC.
2. **Learning Topic ideas-** B taught us a new tool: Google jamboard. We used this tool to suggest Learning presentation ideas. These ideas will be in the CAC Google drive under learning presentations JamBoard Folder.
3. **Review current by-laws and make recommendations:** Heidi and Jim as Vice Chairs CAC Advisory Process (update)- CAC new members are asked to serve a 2 year term initially. Are there statutory requirements for CAC to review complete board packets? Sharon McCotter mentioned that a person from BWSR was brought in to advise the CAC in the past about this requirement. Committee agreed to accept the prior BWSR interpretation that the CAC has the *opportunity* to “review and comment on reports, minutes, activities, and proposed projects of the managers” but not the *requirement*. Sharon made motion Jan seconded that 2 year initial term requirement be included in the CAC bylaws. B to look into making the board packet more accessible, perhaps by supplying the online agenda with links to the relevant materials, rather than scrolling through hundreds of pages.
4. 2021 Calendars
 - a. Review District calendar board meeting and CAC dates
 - b. Volunteers for board meetings

IV. Upcoming Events and Meeting Close.

- A. Lakeshore management webinar February 24th at 6pm
Terry and Scott, 2 guest speakers,
- B. RPBCWD Board of Managers meeting March 3, 2021; 7:00 PM Regular board meeting – virtual Zoom meeting - Sharon to attend on behalf of the CAC
- C. RPBCWD CAC Meeting March 15, 2021; 6:00 PM – virtual Zoom meeting; Manager TBD to attend on behalf of the managers
- D. Jim made a motion to adjourn. Michelle seconded. Meeting adjourned at 7:57 pm.

What water conservation measures would you like to see incorporated into this project?

- Rain barrels
- Smart irrigation controller
- Bee lawn to replace turf grass (fescue)
 - Bee hotels and making event with school families
- Phytoremediation (more water quality)
- Conversion of water fountains to water bottle refilling stations
- Education stations over on the western side (by walking paths). The take it home component.
- Signage around the rain gardens explaining how it works and why it is important
- Scientific but FUN messaging!
- Pervious pavers where feasible
- Green roof? Utilization of roof space? Growing food on the roof? Downspout planter type structures on the roof?
- Garden on the ground with raised beds
- Launch/ grand opening event!
- Way to capture the water from the roof and move it to the soccer fields (open aqueduct?)

RPBCWD February Staff Report

| Administration | | Staff update | Partners |
|-----------------------------|---|--|---|
| Accounting and Audit | Coordinate with Accountants for the development of financial reports. Coordinate with the Auditor. Continue to work with the Treasurer to maximize on fund investments. | Staff Bakkum and Administrator Bleser compiled the monthly treasurer’s report electronically. Staff Bakkum and Administrator Bleser have begun initial preparation for the yearly audit. | |
| Administration | | Administrator Bleser is working on Grant reporting. | |
| Hiring | | The District received 30 applications for the Grant Program Coordinator position. Staff Bakkum screened applications and provided a preliminary ranking of applicants based on requirements outlined in the position description. Administrator Bleser and Staff Lauer assembled a hiring committee to rank applications. The hiring committee conducted six first round interviews. | Nine Mile Creek Watershed District CCWMO Barr Engineering |
| Annual Report | Compile, finalize and submit an annual report to agencies | Continuation of the drafting of the 2020 annual report was ongoing this month. | |
| BWSR | Discuss Targeted Watershed Grant Distribution | Working with BWSR to closeout grants. | 9-Mile WD Eden Prairie BWSR Bloomington Chanhassen Carver Co. Hennepin Co. LMRWD |

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|--------------------------|---|--|-----------------------------|
| | | | Minnetonka Waconia |
| DEI | Diversity, Equity and Inclusion | Staff Lauer was involved in a conversation surrounding the translation of signage and materials with a group of other watershed education professionals. | Metro Watershed Partners |
| Human Resources | General Human Resources | No new updates | |
| Internal Policies | Work with Governance Manual and Personnel Committees to review bylaws and manuals as necessary | No other update | |
| Advisory | Engage with the Technical Advisory Committee on water conservation, chloride management and emerging topics Engage with the Citizen Advisory Committee on water conservation, annual budget and emerging topics. | Staff Lauer coordinated with five new CAC members to hold a “New Member Orientation” on February 16th at 6pm. Staff Lauer provided an overview of State statute, RPBCWD activities, and CAC responsibilities. Staff Lauer compiled and provided new members with orientation materials and answered questions. Staff Lauer and Administrator Bleser met with CAC vice chairs to discuss the upcoming meeting and agenda items. The CAC met for their regular meeting on February 22nd. Administrator Bleser and Staff Bakkum introduced themselves to new members. Administrator Bleser provided an overview of the ongoing and planned CIPs for 2021. Administrator Bleser and Staff Lauer provided an overview of the project at St. Hubert's Catholic School and Staff Lauer led a brainstorming session regarding water conservation efforts that could be implemented on the site. Staff Lauer led a session with the CAC members to ascertain | |

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| | | what learning presentations the CAC is interested in seeing in 2021. | |
| Local Surface Water Management Plan | | No change. Awaiting Chanhassen revisions. | |
| MAWD | | No update | |
| District-Wide | | | |
| Regulatory Program | <p>Review regulatory program to maximize efficiency.</p> <p>Engage Technical Advisory Committee and Citizen Advisory Committee on possible rule changes.</p> <p>Implement a regulatory program.</p> | <p>The new public interface is up and running for the permit database and application. You can view that here: MS4 Permit Software (ms4front.net)</p> <p>A total of 8 permits have been received using the new system. Three have been received since the February meeting.</p> <p>One permit has been issued since the January meeting. This was 2020-071 for the cleanout of sediment within the City of Bloomington’s MS4 facilities.</p> <p>Four permits have been issued since the February meeting. All were administrative permits triggering only Rule C. Once was for the City of Bloomington for pond excavation. Two were for CenterPoint Energy to directionally drill replacement natural gas pipeline. The fourth permit was for the construction of a pool in Chanhassen.</p> <p>The new inspection tool is up and running. The database is now populated with the permits from 2020 and 2021 and 2019 permits are currently being imported. We are currently just verifying that sites are stable and dormant at</p> | |

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|---------------------------------|---|---|---|
| | | <p>this time. Starting the first week in March, staff will begin weekly site inspections.</p> <p>Staff Jeffery and Engineer Sobiech will be setting virtual office hours for attendees of the shoreline seminar to discuss their shoreline with us and how they might improve their riparian area while meeting regulatory requirements.</p> | |
| Aquatic Invasive Species | <p>Review AIS monitoring program</p> <p>Develop and implement Rapid Response Plan as appropriate</p> <p>Coordinate with LGUs and keep stakeholders aware of AIS management activities.</p> <p>Manage and maintain the aeration system on Rice Marsh Lake</p> <p>Riley Chain of Lakes Carp Management</p> <p>Purgatory Chain of Lakes Carp Management</p> <p>Review AIS inspection program.</p> <p>Keep abreast in technology and research in AIS.</p> <p>Zebra mussel adult and veliger monitoring.</p> | <p>Staff continued compiling data for the water resources report.</p> <p>The aeration was turned on and is working well. DO levels during the last sampling event early this month were low and will continue to be monitored.</p> <p>Riley Purgatory Summit occurred early this month to review 2020 data and discuss 2021 plans.</p> | <p>City of Chanhassen</p> <p>City of Eden Prairie</p> <p>University of Minnesota</p> <p>MN DNR</p> <p>Carver County</p> |
| Cost-Share | <p>Schedule and coordinate site visits.</p> <p>Review applications and recommend implementation.</p> <p>Evaluate program.</p> | <p>Staff Lauer consulted the Watershed Stewardship Grant Application Review Committee to evaluate and review the scoring criteria used in 2020. Edits were suggested for 2021. Staff Lauer updated score sheets.</p> <p>Staff Lauer updated the 2021 Stewardship Grant Guidelines to reflect direction from the Board regarding maintenance as well as routine updates.</p> <p>The District continues to receive site visit requests.</p> | <p>Carver County Soil and Water Conservation District</p> |

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| | | Staff Lauer has consulted with multiple potential applicants regarding their grant applications ahead of the application season official opening. One grantee has requested reimbursement for a completed project. | |
| Data Collection | Continue Data Collection at permanent sites. Identify monitoring sites to assess future project sites. | Staff worked on data QC and compilation this month in preparation for drafting the 2020 water resources report. Riley Purgatory Summit occurred early this month to review 2020 data and discuss 2021 plans. This included all local partners and consultants. Staff have been coordinating with local partners to set up the 2021 monitoring plans. WOMP stations: samples were collected 2 times this month for the Metropolitan Council. The Hach water quality sonde was sent in for yearly repair/maintenance and has been returned. Staff conducted regular lake monitoring on the Riley Chain of Lakes (RCL) early this month - Lucy, Ann, Susan, Rice Marsh. This is the first year of the three year monitoring effort for RCL (rotate then for 3 years to PCL). Staff will discuss pond sampling plans for 2021. The Report for Mitchell Lake, Lake Riley Subwatershed Assessment Report was completed and submitted to staff. | Metropolitan Council City of Eden Prairie University of MN City of Chanhassen MNDNR City of Minnetonka |
| District Hydrology and Hydraulics Model | Coordinate maintenance of Hydrology and Hydraulics Model. Coordinate model update with LGUs if additional information is collected. | . | City of Bloomington City of Minnetonka City of Eden Prairie City of Deephaven City of Shorewood. |

| | | | |
|-----------------------------------|---|---|---|
| | Partner and implement with the City of Bloomington on Flood Evaluation and Water Quality Feasibility. | | |
| Education and Outreach | Implement Education & Outreach Plan, review at year end. Manage partnership activities with other organizations. Coordinate Public Engagement with District projects. | Staff Bakkum coordinated advertising for the February 24th Lakeshore Management Webinar. Staff Lauer assisted with online advertising. Staff Nicklay has been updating Fact Sheets with 2020 data. Staff Lauer has continued to work on edits to the website. | Adopt a drain: City of Eden Prairie, City of Minnetonka, City of Bloomington, Hamline University, Nine Mile Creek Watershed District, MPCA, Fortin Consulting |
| Groundwater Conservation | Work with other LGUs to monitor, assess, and identify gaps. Engage with the Technical Advisory Committee to identify potential projects. Develop a water conservation program (look at Woodbury model) | Staff Lauer continued to work with NMCWD staff to collaborate on water conservation online messaging and engagement. | Metropolitan Council City of Eden Prairie City of Shorewood City of Bloomington City of Minnetonka City of Chanhassen |
| Lake Vegetation Management | Work with the University of Minnesota or Aquatic Plant Biologist, Cities of Chanhassen and Eden Prairie, lake association, and residents as well as the Minnesota Department of Natural Resources on potential treatment. Implement herbicide treatment as needed. Secure DNR permits and contracts with herbicide applicators. Lakes the District is monitoring for treatment include: Lake Susan, Lake | Staff gathered input from the Riley/Purg Summit and will be scheduling point intercept vegetation surveys and spring herbicide application surveys soon. Jacob Olson, Graduate Research Assistant, University of Minnesota with input from Dr. Ray Newman, University of Minnesota. Riley Purgatory Bluff Creek Watershed District (RPBCWD) Aquatic Plant progress report for February 2021. Biomass | City of Eden Prairie City of Chanhassen University of Minnesota MNDNR |

| | | | |
|-------------------------------------|---|---|---|
| | Riley, Lotus Lake, Mitchell Lake, Red Rock Lake and Staring Lake. Work with Three Rivers Park District for Hyland Lake | data entry and analysis have been completed. Point intercept data from Lakes Riley, Susan, and Staring and the Hyland Lake seedbank data have been compiled and a slideshow was presented at the virtual 2020 Annual RPBCWD Summit. Key results and recommendations for future management were presented. The 2020 Annual Report and Completion Report is being updated and edited. | |
| Opportunity Projects | Assess potential projects as they are presented to the District | No new updates | ISG Staring Lake Outdoor Center The Preserve Association |
| Total Maximum Daily Load | Continue working with Minnesota Pollution Control Agency on the Watershed Restoration And Protection Strategies (WRAPS). Engage the Technical Advisory Committee. | No new updates | MPCA |
| Repair and Maintenance Grant | Develop and formalize grant program. | No new updates | |
| University of Minnesota | Review and monitor progress on University of Minnesota grant. Support Dr John Gulliver and Dr Ray Newman research and coordinate with local partners. Keep the manager abreast to progress in the research. Identify next management steps. | The City of Eden Prairie was scheduled to deploy iron filings on a pond at the end of February. This is a continuation of the 2020 iron filings project to assess the effectiveness of iron filings on locking phosphorus in pond sediments. The results from the two ponds treated in 2020 were inconclusive. | Stormwater ponds partners: Bloomington, Chanhassen, Eden Prairie, Minnetonka, Shorewood, University of MN, |

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| | | The Ray Newman Lab will work on vegetation assessments on Staring, Susan, and Riley in 2020. | Wenck, and Limnotech. |
| Watershed Plan | Review and identify needs for amendments. | Staff Jeffery is working on the Soil Plan Amendment | |
| Wetland Conservation Act (WCA) | Administer WCA within the Cities of Shorewood and Deephaven. Represent the District on Technical Evaluation Panel throughout the District | No WCA applications have been received in Deephaven. No WCA applications have been received in Shorewood. Staff Jeffery submitted the annual reporting for Shorewood and Deephaven to BWSR. | City of Shorewood City of Deephaven City of Chanhassen City of Eden Prairie MCWD BWSR DNR ACOE |
| Wetland Management | Assess known existing wetlands, identify previously unknown wetlands, and identify potential restoration and rehabilitate wetlands and wetland requiring additional protection. | Staff Jeffery, Staff Dickhausen and staff Nicklay continue updating the MNRAM Access database. Staff Jeffery, Staff Dickhausen, Engineer Sobeich, Joe Bischoff, and Karen Wold of Barr will be meeting in early March to discuss the assessment program. | City of Chanhassen City of Eden Prairie Hennepin County Carver County MNDNR BWSR USFWS |
| Hennepin County Chloride Initiative | Phase 1: Develop a plan to target commercial and association-based sources or chloride pollution - businesses, malls, HOAs, property management companies and the private applicators that they hire. We will hire a consultant to facilitate focus groups with private applicators, as well as those that execute contracts with private applicators. These focus groups will help identify needs and barriers for our target audience. The | HCCI will meet again March 3rd to discuss next steps. BCWMO will be leading and submitting reimbursements to RPBCWD. | |

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| | consultant will compile information into a plan for implementation. | | |
| Lower Minnesota Chloride Cost-Share Program | The Lower Minnesota River Watersheds are coming together to offer cost-share grants. | Staff Bakkum coordinated a meeting of the review committee to evaluate a grant application. | LMRWD, RBWMO, NMCWD |
| Bluff Creek One Water | | | |
| Bluff Creek Tributary Restoration | Implement and finalize restoration. Monitor Project. | On hold till Spring. | City of Chanhassen |
| Wetland Restoration at 101 | Remove 3 properties from flood zone, restore a minimum 7 acres and as many as 16 acres of wetlands, connect public with resources, reduction of volume, rate, pollution loads to Bluff Creek | Plans are being developed for the wetland restoration. Staff Jeffery is finalizing the documents for final payment from the DNR Flood Hazard Mitigation grant received for the purchase and demolition of the properties. | City of Chanhassen MN DNR Carver County |
| Riley Creek One Water | | | |
| Lake Riley Alum | Continuing to monitor the Lake. | Coring will occur in the fall of 2021 to assess the effectiveness of the alum application. | |
| Lake Susan Improvement Phase 2 | Complete final site stabilization and spring start up. Finalize and implement E and O for the project. Monitor project. | No new updates | City of Chanhassen Clean Water Legacy Amendment |
| Lake Susan Spent Lime | 2020 startup and monitoring. | No new updates | City of Chanhassen |
| Lower Riley Creek Stabilization | Coordinate agreement and acquire easements if needed for the | On hold till Spring. | City of Eden Prairie Lower MN River Watershed District |

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| | restoration of Lower Riley Creek reach D3 and E. Implement Project. Continue Public Engagement for project and develop signage of restoration. | | |
| Rice Marsh Lake Alum Treatment | Continuing to monitor the Lake. | No new updates | City of Eden Prairie City of Chanhassen |
| Rice Marsh Lake Watershed Load Project 1 | Conduct feasibility. Develop cooperative agreement with City of Chanhassen | Resolution included in board packet | City of Chanhassen |
| Upper Riley Creek | Work with City to develop scope of work (in addition to stabilizing the creek can we mitigate for climate change) Conduct feasibility Develop cooperative agreement with the City of Chanhassen Order Project Start design | Joint City and District Meeting has been scheduled for February 4 to discuss with landowners the project. Invitations were mailed and RSVPs have been coming in. | City of Chanhassen |
| Middle Riley Creek | Work with Bearpath HOA/Golf Course to develop scope of work (in addition to stabilizing the creek can we mitigate for climate change and provide for an improved recreational experience) Draft feasibility report Develop cooperative agreement with Bearpath Order Project Start design | Engineer and staff are continuing to work with Bearpath. | Bearpath Neighborhood Association. City of Eden Prairie Dept. of Natural Resources |
| St Hubert Water Quality Project | | Administrator Bleser is working with BSWR to ensure that they have what they need to formalize agreement. | CCSWCD Metropolitan Council City of Chanhassen |
| Purgatory Creek One Water | | | |

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| PCRA Berm | | Staff will meet with Wenck Engineering to finalize the plan on the repair of berm and modifications to the overflow structure after changes were made from the last meeting. Next steps will then be scheduled. | City of Eden Prairie |
| Duck Lake Water Quality Project | Work with the City to implement neighborhood BMP. Identify neighborhood BMP to help improve water resources to Duck Lake. Implement neighborhood BMPs. | The City of Eden Prairie approved the cooperative agreement. | City of Eden Prairie |
| Lotus Lake – Internal Load Control | Monitor treatment and plant populations. | In 2021, staff will add phosphorus monitoring at a second location on Lotus Lake in the east bay. This will allow staff to better assess the alum treatment effectiveness across Lotus Lake. | |
| Scenic Heights | Continue implementing restoration effort. Work with the City of Minnetonka and Minnetonka School District on Public Engagement for project as well as signage. | Final pay app for the project is being processed this month. | Minnetonka Public School District City of Minnetonka Hennepin County |
| Silver Lake Restoration | Order project Design Project Work with the City of Chanhassen for Design, cooperative agreement and implementation | Engineer is close to 60% design and will be sending plans to the City for review. | City of Chanhassen |
| | | | |
| Professional Development | <ul style="list-style-type: none"> ● Staff Maxwell renewed his membership with the American Water Resources Association. ● Staff Jeffery and Staff Nicklay are actively working to complete certification for Construction Site Manager. | | |

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing February 2021 Activities for March 3, 2021, Board Meeting
Date: February 25, 2021

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

General Services

- a. Participated in February 4th virtual stakeholder meeting with adjacent property owners about the draft Upper Riley Creek Ecological Corridor Enhancement Plan. Stakeholders were receptive to the project and expressed interest in working collaboratively to advance the restoration measures.
- b. Virtual meeting with Administrator Bleser, Watershed Planning Manager Jeffery and the city of Chanhassen on February 5th to discuss the 90% design for the restoration of the eroded conveyance at the south end of Silver Lake. The city requested that the District prepare a traffic control plan rather than the contractor. The city contacted the private property owner who expressed a willingness to allow construction on private property. The group agreed to a virtual bid opening.
- c. Participated in a virtual meeting with the wetland Technical Evaluation Panel (TEP) for the Duck Lake Road reconstruction project. The city will submit a new wetland application because of the changes due to the proposed bridge. The bridge alternative was determined to reduce the wetland impacts from roughly 13,000 square feet to 11,000 square feet.
- d. Took part in the February 3rd RPBCWD summit discussing fisheries and plant management in the Riley and Purgatory Creek watershed. There were 25 attendees representing RPBCWD staff, the cities in the district, Three Rivers Parks, Carver County, UofM, consultants, and herbicide applicator. Key takeaways include potential need for lake vegetation management plan for Lake Susan, Lake Susan Alum treatment could be done concurrently with stream stabilization, continue monitoring effectiveness of Rice Marsh alum treatment and fisheries, Staring Lake LVMP might need some adjustments, Mitchell Lake dominated by curlyleaf pondweed, coontail and filamentous algae, could consider lake-wide curlyleaf pondweed management, red Rock Lake water quality has degraded, and management activities will need close coordination with cities and DNR.
- e. Met with Watershed Planning Manager Jeffery, Education & Outreach Coordinator Lauer, staff Bakkum, and Greg Berg (Stearns SWCD) on February 2nd to discuss the potential for Greg to present experiences/lessons learned with shoreline stabilization efforts at the upcoming shoreline workshop set for February 24th.

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing February 2021 Activities for March 3, 2021, Board Meeting
Date: February 25, 2021
Page: 2

- f. Discussion with city of Chanhassen public works director on February 17th about upcoming street reconstruction projects. Discussed project coordination of the reconstruction of Dakota Lane with the district's Rice Marsh Lake water quality improvement project currently starting design.
- g. Took part in a February 17th project coordination meeting with Administrator Bleser, SRF, and St. Hubert's school to discuss the opportunity project being led by RPBCWD on their campus. Discussed the challenges with reuse, funding sources (RPBCWD, grants, and school), and potential need for a scope amendment for SRF to expand construction services role.
- h. Participated in two interviews for the district's grant coordinator position on February 18th and provided feedback in follow-up meeting.
- i. Took part in a February 19th kickoff meeting for the resiliency project with city of Eden Prairie staff to review project scope and schedule. During the meeting, the group discussed when input from City staff will be requested, contributions for the city (field staff time and data), need for additional model validation, and potential installation of DIY monitoring units at critical locations.
- j. Met with Administrator Bleser on February 22nd to regroup about grant funding, main points of contact for projects, programs, and administrative efforts.
- k. Participated in a February 23rd preapplication meeting with Bolton and Menk to discuss Eden Prairie's revised Duck Lake Road Project. The project will likely trigger the floodplain management, erosion prevention & sediment control, wetland buffers, dredging, waterbody crossings & structures, and the stormwater management rules. Discussion focused on stormwater modeling and minor adjustments for previous feature to account or bridge and sidewalk.
- l. Participated in the February 24th shoreline workshop. The session was attended by roughly 25 participants.
- m. Took part in a February 25th virtual meeting with SRF to discuss RPBCWD's CIP specification and bidding process.
- n. Participated in second round interview for the grant coordinator position on February 25th.
- o. Participated in a February 25th virtual meeting with Administrator Bleser, Counsel Smith and President Ward to review the March 3rd meeting agenda.
- p. Participated in the February 3rd regular Board of Managers meeting.
- q. Finalized a project summary sheet for the Scenic Heights Forest restoration project.
- r. Prepared Engineer's Report for engineering services performed during February 2021.
- s. Miscellaneous discussions and coordination with Administrator Bleser about the project staffing, Riley Purgatory summit, task orders for upcoming project work in the 10-year plan, grant tracking, potential additional support during administrator transition, and upcoming Board meeting agenda.

Permitting Program

- a. *Permit 2020-061: Purgatory Creek 2nd Addition:* This proposed project involves construction of a cul-de-sac with 7 lots with the site grading, sanitary sewer, water main, storm sewer, and street construction adjacent to Sunnybrook Road in Eden Prairie. Responded to emails from applicants engineer with questions about stormwater management on and off site.
- b. *Permit 2020-066: Chase Bank–* This project consists of redevelopment of a 0.62-acre site into a Chase Bank building and associated parking at 928 Prairie Center Drive, Eden Prairie, MN. A subsurface stormwater management system will provide stormwater rate, volume, and water quality control. The project triggers the erosion prevention and sediment control rule and the stormwater management rule. Participated in a February 5th conference call with the applicant's engineer to discuss review comments and potential design revisions.
- c. *Permit 2020-068: Minnetonka High School Einer Anderson Field Site Improvements –* This project consists of proposed site improvements along the northwest side of the Minnetonka High School Einer Anderson Field, located at 18301 Highway 7 in Minnetonka. Site improvements include construction of new sidewalks, retaining walls, grading, landscaping, and related utilities. A subsurface stormwater management system will provide stormwater rate, volume, and water quality control. The project triggers the erosion prevention and sediment control rule and the stormwater management rule. The Board of Managers conditionally approved the permit at the February 3, 2021 meeting, and RPBCWD staff is in the process of working with the applicant in review of items required for the permit to be released.
- d. *Permit 2020-073: Welters Way Streambank Stabilization –* This project consists restoration of approximately 160 feet of Purgatory Creek streambank and adjacent slope at 11579 Welters Way in Eden Prairie. The project triggers the floodplain management rule, erosion prevention and sediment control rule, wetland and creek buffer rule, and shoreline and streambank stabilization rule. Reviewed December 29th submittal. Provided review comments to applicant on January 7th and informed the applicant the submittal was incomplete because the applicant did not provided information relative to the floodplain management rule or how the site would be accessed. Worked with applicant to define their permit review timeline request of 180 days and district staff to issue extension.
- e. *Permit 2021-001: Auto Care World –* This project consists of redevelopment of a 3.1-acre site into a proposed auto care center, gas station, and convenience store at the northwest corner of Pioneer Trail and Hennepin Town Road, Eden Prairie, MN. The project triggers the erosion prevention and sediment control rule and stormwater management rule. Started reviewing the January 19th submittal. Provided review comments to applicant on January 29th and informed the applicant that the submittal was incomplete because the applicant did not provide information relative to the erosion prevention and sediment control and stormwater management rules. Participated in a conference call with Stantec to discuss review comments on February 17th.
- f. *Permit 2021-004: Silver Lake Water Quality Improvement Project –* This project consists of drainage improvements to Pleasantview Road and the ravine/channel on the south end of Silver Lake in the city of Chanhassen, MN. The project triggers the floodplain management and drainage alteration, erosion prevention and sediment control, and wetland and creek

- buffers rules. Reviewed the January 27th submittal and informed the applicant the submittal was incomplete because the submittal was missing information relative the floodplain management rule. Provided review comments to applicant on February 19th. Revised permit submittal provided by the applicant on February 24th.
- g. *Permit 2021-008: Minnetonka High School Momentum Building Addition* – This project consists of proposed building addition located at 18301 Highway 7 in Minnetonka. Site improvements include construction of a building addition, new sidewalks, grading, landscaping, and related utilities. A subsurface stormwater management system will provide stormwater rate, volume, and water quality control. The project triggers the erosion prevention and sediment control rule and the stormwater management rule. Reviewed February 4th submittal and notified the applicant that the submittal was incomplete because no geotechnical soil boring or infiltration testing data were included in the submittal.
 - h. Participated in a February 19th preapplication meeting with Watershed Planning Manager Jeffery, city of Minnetonka, and Bolton and Menk to discuss the city's upcoming street reconstruction in the Westonka neighborhood. The project involves the reconstruction of roughly 5.6 miles of roadway to an urban street section with curb and gutter. The project will likely trigger the floodplain management, erosion prevention & sediment control, wetland buffers, waterbody crossings & structures, and the stormwater management rules. Discussion focused on stormwater requirements and wetland buffers.
 - i. Miscellaneous preapplication calls from applicant with questions about rule applicability and criteria.
 - j. Miscellaneous conversations with Watershed Planning Manager Jeffery about rules, permit database status, shoreline rule revision, new permitting database bugs/fixes, which permits will be reviewed by staff versus Barr, and rule application.

Data Management/Sampling/Equipment Assistance

- a. Worked with RMB laboratory (RMB) to correct electronic data deliverables (EDDs).
- b. Corrected anomalous data in the database.
- c. Assisted with analytical data tables for the Pond Assessment.

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. Setup datalogger files 2021.
- b. Equipment maintenance.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Download and review data.
- b. Setup datalogger files 2021.
- c. Review and QA/QC of 2020 data.
- d. Equipment maintenance.

Task Order 14b: Lower Riley Creek Final Design

- a. No activity in February.

Task Order 21B: Bluff Creek Stabilization Project

- a. No activity in February.

Task Order 23: Scenic Heights School Forest Restoration

- a. The project is complete. A final summary document has been produced for District use and to formally close-out the project with the numerous partners. Final invoicing has been prepared and submitted to the District for approval.
- b. On a personal note, as a father of children at this school and a nearby neighbor, it has been a real honor to work on this project. Thanks so much for this wonderful opportunity! – Matt Kumka, Project Manager

Task Order 24: Duck Lake Water Quality Improvement Project

- a. No activity in February.

Task Order 24B: Silver Lake Water Quality Improvement Project

- a. Revisions to 90% design plan set and conduct review meeting with district and city staff.
- b. Developed 100%/Issued for Bid set based on review with district and city staff.
- c. Development of technical specifications, review/revisions to the front-end documents, and development of bidding needs including coordination of virtual bidding process.
- d. Coordination with city for development of agreement with private property owner, including development
- e. Development and submittal of permits to city of Chanhassen.
- f. Submitted RPBCWD permit application for review
- g. Developed the engineer's opinion of probable cost (OPC) based on the 100% design. The OPC is higher than the feasibility study OPC for the following key reasons: a) additional storm sewer needed, b) MNDOT issued new guidance on check dam design, c) topsoil import increased due to soil testing, d) added infiltration basin and e) 3-year vegetation establishment. Although OPC is higher, the project is estimated to be slightly more cost-effective from a water quality improvement perspective (\$1,370/ lb TP versus \$1,640/ lb TP in feasibility). The increased phosphorus removal results from additional infiltration basin on the downstream end of the proposed storm sewer discharge.
- h. Development of authorization to bid summary packet for the RPBCWD managers.
- i. It is anticipated that additional engineering services budget may be needed because of the increased design complexity, public bid revisions during the COVID19 pandemic impacting the contract document (e.g., entirely virtually bid), additional assistance with the private

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing February 2021 Activities for March 3, 2021, Board Meeting
Date: February 25, 2021
Page: 6

property agreement, and the extended construction administration duration due to the vegetation establishment window.

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

- a. Draft report documenting the process for developing the prioritization framework, source information, and initial prioritized list of flood-prone areas was provided to RPBCWD, city of Bloomington, and NMCWD for review. Barr will provide a final version of the report after comments are received and revisions to the document have been made to address the comments.

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

- a. Development of 60% drawings and proposed conditions modeling.
- b. Development of permitting report to meet District requirements.
- c. Development of technical specifications and preliminary engineer's opinion of probable cost.
- d. Consultation with BioClean on February 25th to discuss the Kraken Filter

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

- a. Bearpath provided Barr with revised drawings from Nicklaus Group on February 18th. Barr is incorporating the updated layout into the stream design and working toward completion of a 90% drawing set for permitting to be submitted the week of March 1st. The tentative timeline includes presenting a bid package with updated drawings, specifications, and cost estimate to the board for approval and authorization to solicit bids at the April 7th board meeting. Construction is still tentatively slated for September 2021, with the goal of finishing the tee areas by October 1st, and stream work construction wrapping up in November/December 2021.

Task Order 30B: Pioneer Trail Wetland Restoration Project

- a. Development of preliminary plan sheets and optimization of the proposed wetland restoration design to reduce bounce in the wetland, decrease peak flows to downstream Bluff Creek, and increase native wetland vegetation.
- b. Working on vegetation plantings and layout as part of 60% design
- c. Met with Carver County on February 18th to discuss the re-routing of the storm sewer beneath Pioneer Trail. The County expressed no concern with proposed design.

Task Order 032A: Upper Riley Creek Ecological Enhancement Plan

- a. Coordinated with Administrator Bleser and city of Chanhassen staff to host a virtual open house for adjacent landowners. The purpose of the open house was to introduce the project and to solicit preliminary feedback, with additional opportunities for landowner coordination as the project progresses through design. Five landowners representing three different properties attended.

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing February 2021 Activities for March 3, 2021, Board Meeting
Date: February 25, 2021
Page: 7

- b. Updated the draft Ecological Enhancement Plan based on feedback from city of Chanhassen staff.

Task Order 033: Wetland Assessment – Phase 1

- a. Compiled data for the next meeting to address community resilience, hydrology, and cultural resources.
- b. Discussed schedule for the Peer Advisory Group to review the draft framework.
- c. Began building example framework to demonstrate the ranking scheme and metrics.

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

- a. Facilitated kickoff meeting with city of Eden Prairie staff to review project scope and schedule. During the meeting, the group discussed when input from City staff will be requested.
- b. The schedule for this task order extends through 2022. In 2021 work will focus on updating the District's stormwater models for Riley Creek and Purgatory Creek to include additional detail within Eden Prairie. In 2022, work will include model validation, simulation of design events, inundation mapping, identification and prioritization of flood prone areas, and documentation.

| PROJECT NAME | PERMIT # | DATE INSPECTED | COMPLIANT | CORAC | DATE TO COMPLY | NOTES |
|---------------------------------|----------|----------------|-----------|-------|----------------|--|
| Mission Hills Senior Living | 2015-002 | 2/19/2021 | YES | | | |
| LaMettry's Motorplex | 2015-035 | 2/19/2021 | CLOSED | | | |
| Saville West Subdivision | 2015-036 | 2/19/2021 | CLOSED | | | |
| Arbor Glen | 2015-050 | 2/19/2021 | CLOSED | | | |
| SWLRT | 2016-017 | 2/19/2021 | YES | | | |
| County Rd 61 | 2016-032 | 2/19/2021 | YES | | | |
| Kopesky 2nd Addition | 2017-001 | 2/19/2021 | CLOSED | | | |
| Tweet Pediatric Dental | 2017-029 | 2/19/2021 | YES | | | |
| Fawn Hills | 2017-047 | 2/19/2021 | YES | | | |
| O'Reilly | 2017-072 | 2/19/2021 | YES | | | |
| Avienda | 2018-016 | 2/19/2021 | | | | No work to date. |
| Smith Village | 2018-044 | 2/19/2021 | NO | | 3/8/2021 | Loose trash all over site, garbage chutes not position over dumpster. |
| CSAH 61 - Peterson Borrow | 2018-047 | 2/19/2021 | YES | | | |
| Bluff Creek Tributary | 2018-056 | 2/19/2021 | YES | | | |
| Lower Riley Creek Stabilization | 2018-062 | 2/19/2021 | YES | | | |
| Castle Ridge | 2018-066 | 2/19/2021 | NO | | 3/8/2021 | Silt fence maintenance needed, no other issues observed |
| Ground Storage Reservoir | 2018-074 | 2/19/2021 | YES | | | |
| The Park | 2019-001 | 2/19/2021 | YES | | | |
| Shelangoski Home | 2019-002 | 2/19/2021 | YES | | | |
| Stable Path | 2019-003 | 2/19/2021 | NO | | 3/8/2021 | Unprotected stockpiles, tracking |
| Duck Lake Rd | 2019-004 | | PENDING | | | |
| Beverly Hills | 2019-007 | 2/19/2021 | NO | | 3/8/2021 | Unprotected stockpiles |
| 5995 Ridge Rd Remodal | 2019-009 | | | | | |
| Westwind Plaza: Chase Bank | 2019-011 | 2/19/2021 | YES | | | |
| 6650 Pawnee Dr | 2019-017 | 2/19/2021 | NO | | | Slope covered in snow but probably still unvegetated. |
| 6657 Deerwood Dr | 2019-018 | 2/19/2021 | YES | | | |
| Sheldon Place Townhomes | 2019-019 | 2/19/2021 | YES | | | |
| Woodcrest | 2019-022 | 2/19/2021 | PENDING | | | No activity to date. |
| Minnetonka Library Improvemen | 2019-023 | 2/19/2021 | YES | | | |
| Conifer Heights | 2019-024 | 2/19/2021 | YES | | | |
| LifeTime Parking Expansion | 2019-028 | 2/19/2021 | YES | | | |
| Sheldon Ave Storm Sewer | 2019-029 | 2/19/2021 | YES | | | No activity |
| Applebees Parking Lot | 2019-032 | 2/19/2021 | NO | | | No erosion issues only outstanding punch list items such as removal of temp BMPS |
| Lion's Tap | 2019-034 | 2/19/2021 | YES | | | |
| TH 101 | 2019-042 | 2/19/2021 | YES | | | |
| Cedarcrest Stables | 2019-043 | 2/19/2021 | YES | | | |
| EPPS-CMS Addition | 2019-048 | 2/19/2021 | YES | | | |
| Powers Turn Lanes | 2019-049 | | CLOSED | | | |
| SP 8825-629 | 2019-050 | | CLOSED | | | |
| Berrospid Addition | 2019-051 | 2/19/2021 | YES | | | Silt fence in place, no other activity |
| 5545 Kipling Ave | 2019-052 | 2/19/2021 | YES | | | |
| Moments of Chanhassen | 2020-003 | 2/19/2021 | PENDING | | | No activity to date |
| Doan Home (Dove Ct) | 2020-004 | 2/19/2021 | YES | | | All work is completed and temporary sediment control has been removed. |
| TH 5 Regional Trail | 2020-007 | 2/19/2021 | YES | | | |
| Eden Ridge, LLC | 2020-008 | 2/19/2021 | NO | | 3/8/2021 | Unprotected stockpile |
| Ginder Home | 2020-010 | 2/19/2021 | YES | | | |

| PROJECT NAME | PERMIT # | DATE INSPECTED | COMPLIANT | CORAC | DATE TO COMPLY | NOTES |
|--|----------|----------------|-----------|-------|----------------|---|
| Mntka HS 2020 Parking Lot EXP | 2020-011 | NA | PENDING | | | |
| Deerfield Trail | 2020-018 | | | | | |
| CR 101 Paving | 2020-019 | NA | PENDING | | | |
| UHG Tech Drive Pipe Replacement | 2020-028 | NA | PENDING | | | |
| CORTRUST Bank | 2020-029 | NA | PENDING | | | |
| Prairie Heights | 2020-031 | 2/19/2021 | YES | | | |
| Honeysuckle | 2020-035 | 2/19/2021 | YES | | | |
| Jones Shoreline | 2020-038 | NA | PENDING | | | |
| Eliassen rip rap | 2020-041 | NA | PENDING | | | |
| GBM Realty Parking Lot | 2020-043 | 2/19/2021 | YES | | | |
| Barry Home | 2020-044 | 2/19/2021 | YES | | | |
| Galpin Project | 2020-045 | 2/19/2021 | YES | | | |
| Parkhurst Addition | 2020-050 | NA | PENDING | | | |
| Biolyph Parking Lot Addn | 2020-051 | NA | PENDING | | | |
| CR 3 Culvert Replacement | 2020-053 | 2/19/2021 | YES | | | |
| Minnetonka Care Center | 2020-054 | 2/19/2021 | | | | No activity |
| Minnetonka High School 2021 Arts Center Parking Lot Addition | 2020-056 | NA | PENDING | | | |
| Bluff 25 Culvert Rehab Project | 2020-057 | NA | PENDING | | | |
| Eagle Ridge Dr Drain Tile | 2020-058 | NA | PENDING | | | |
| Billings Pool | 2020-059 | | | | | |
| Christian Brothers Automotive | 2020-060 | NA | PENDING | | | |
| Purgatory Creek Estates 2nd Addition | 2020-061 | NA | PENDING | | | |
| 481 Bighorn | 2020-062 | 2/19/2021 | YES | | | |
| Emerson SSC Chilled Water System Improvements | 2020-063 | 2/19/2021 | YES | | | |
| Wetterling | 2020-064 | 2/19/2021 | YES | | | Check for perimeter protection after snow melt, snow to deep to0 determine. |
| Terry Pine Coffee | 2020-065 | NA | PENDING | | | |
| Chase Bank | 2020-066 | NA | PENDING | | | |
| Conifer Heights Storm Sewer Improvements | 2020-067 | NA | PENDING | | | |
| Mntka HS Einer Anderson | 2020-068 | NA | PENDING | | | |
| Prairie Heights | 2020-069 | NA | PENDING | | | |
| Lake Place Apartments | 2020-070 | NA | PENDING | | | |
| Woodbridge Marsh Pond Maintenance | 2020-071 | NA | PENDING | | | |
| Earhart Wetland Alteration Permit | 2020-072 | NA | PENDING | | | |
| Auto Care World | 2021-001 | | | | | |
| Fifield Pool | 2021-002 | | | | | |
| Neil Lake Rd NGPL | 2021-003 | | | | | |
| Silver Lake WQ Improvement | 2021-004 | | | | | |
| Lake Place Apartments | 2021-005 | | | | | |
| TeBrake Swimming Pool | 2021-006 | | | | | |
| TH 5 NGBL | 2021-007 | | | | | |
| Mntka HS Momentum Bldg Addn | 2021-008 | | | | | |



February 14, 2021

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
14500 Martin Drive Suite 1500
Eden Prairie, MN 55344

**Re: Scenic Heights Elementary School Forest Restoration Project – Pay Application #11 and Project Close-Out
Barr Project # 23/27-0053.14-023**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #11 from Landbridge Ecological for work completed in October and November of 2020 on the above-referenced project. Upon your review and approval, please sign three copies and return one copy to me, one copy to the contractor and retain the remaining copy for your files.

Major items of work covered by this pay application include one site management visit including spot mowing and herbicide applications to control garlic mustard and reed canary grass. Barr staff has visited with management crews on-site and have reviewed conditions before and after management treatments have taken place. Other weeds of concern being managed include motherwort, burdock, yellow sweet clover, poison ivy, and Canadian thistle. A critical overspray of the remaining buckthorn and honeysuckle re-sprouts was also completed during this management visit.

Barr Engineering has reviewed the application for payment, confirmed that the work for which payment is requested has been performed, believes to the best of our knowledge that the work has been performed in accordance with the terms of the contract with the Riley Purgatory Bluff Creek Watershed District, and is recommending payment in the amount of **\$7,480.62**. This payment includes the release of all previously retaining amounts (\$4,980.62) and represents the final payment of this project and its formal close-out. Payments shall be made directly to Landbridge Ecological at 670 Vandalia Street, St. Paul, MN 55114.

Please call me at 952-832-2649 if you have any questions or concerns about the application for payment, or about any other related matters.

A handwritten signature in black ink, appearing to read "Matt Kumka". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Matt Kumka, PLA
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Jen Merth, Landbridge Ecological Project Manager

Enclosure #1 – Application for Payment – Progress Payment 11 with IC-134 Form

**Scenic Heights School Forest Restoration Project
Progress Payment Number 11 - FINAL INVOICE**

| | | | | |
|-----|---|---------------------|-------------------|--------------------------|
| 1.0 | Total Completed Through This Period | <u>\$178,059.40</u> | | |
| 2.0 | Total Completed Previous Period | | <u>\$5,000.00</u> | |
| 3.0 | Total Completed This Period | | | <u>\$2,500.00</u> |
| 4.0 | Amount Retained, Previous Period | | <u>\$4,980.62</u> | |
| 5.0 | Amount Retained, This Period (See Note 1) | | <u>\$0.00</u> | |
| 6.0 | Total Amount Retained | | <u>\$4,980.62</u> | |
| 7.0 | Retainage Released Through This Period: | | | <u>\$4,980.62</u> |
| 8.0 | Amount Due This Period | | | <u><u>\$7,480.62</u></u> |

Note 1: At rate of 5% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Current Contract Price \$199,225.00

SUBMITTED BY:

Name: Jen Merth Date: 2/11/2020
 Title: Project Manager
 Contractor: Landbridge Ecological

Signature: 

RECOMMENDED BY:

Name: Matt Kumka Date: 2/11/2020
 Title: Project Manager
 Engineer: Barr Engineering Co.

Signature: 

APPROVED BY:

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

Signature: _____

Scenic Heights School Forest Restoration Project
Riley Purgatory Bluff Creek Watershed District
Summary of Work Completed through November 21, 2020 for Progress Payment Number 11 (INVOICE #294)

| Item | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID - LANDBRIDGE ECOL | | (1) Total Completed Through This Period | | (2) Total Completed Through This Period | | (3) Total Completed Through This Period | | (4) Total Completed Through This Period | | (-) Total Completed Through This Period | | (5) Total Completed Through This Period | | (6) Total Completed Through This Period | | (7) Total Completed Through This Period | | (8) Total Completed Through This Period | | (9) Total Completed Through This Period | | (10) Total Completed Through This Period | | (11) Total Completed Through This Period | |
|-----------------------|--|------|--------------------|-----------------------|--------------|---|-------------|---|-------------|---|------------|---|------------|---|----------|---|-------------|---|------------|---|------------|---|------------|---|------------|--|------------|--|------------|
| | | | | UNIT COST | EXTENSION | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount | Quantity | Amount |
| 1.06 A | Mobilization/Demobilization | L.S. | 1 | \$15,500.00 | \$15,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1 | \$15,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 B | Erosion Control Construction Entrance | Each | 1 | \$2,500.00 | \$2,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 C | Desirable Plant Marking for Protection | L.S. | 1 | \$1,750.00 | \$1,750.00 | 1 | \$1,750.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 D | Clear and Grub Woody Invasive Plant Removal (Trees under 8") | AC | 7 | \$4,500.00 | \$31,500.00 | 6 | \$27,000.00 | 1 | \$4,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 F | Clear and Grub Woody Invasive Plant Removal (Trees over 8") | Each | 40 | \$450.00 | \$18,000.00 | 33 | \$14,850.00 | 7 | \$3,150.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 H | Remove and Dispose of Adopt-A-Plots Signs | Each | 30 | \$85.00 | \$2,550.00 | 30 | \$2,550.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 I | Heavy Duty Silt Fence | L.F. | 85 | \$15.50 | \$1,317.50 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 J | Erosion Control Blanket | S.Y. | 125 | \$5.50 | \$687.50 | 0 | \$0.00 | 125 | \$687.50 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 K | Remove and Salvage Topsoil (P) | C.Y. | 80 | \$45.00 | \$3,600.00 | 0 | \$0.00 | 80 | \$3,600.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 L | Grading | L.S. | 1 | \$5,900.00 | \$5,900.00 | 0 | \$0.00 | 1 | \$5,900.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 M | Rock Riffle | Each | 3 | \$3,500.00 | \$10,500.00 | 0 | \$0.00 | 3 | \$10,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 N | Woodland Seed Mix with Cover Crop (Custom Mix) | AC | 4.7 | \$2,200.00 | \$10,340.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 4.7 | \$10,340.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 O | Prairie Seed Mix with Cover Crop (MnDOT 35-221) | AC | 1.3 | \$1,950.00 | \$2,535.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1.3 | \$2,535.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 P | Woodland Edge Seed Mix with Cover Crop (MnDOT 36-711) | AC | 1.2 | \$1,850.00 | \$2,220.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1.2 | \$2,220.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 Q | Wet Meadow Seed Mix with Cover Crop (MnDOT 34-261) | AC | 0.5 | \$3,500.00 | \$1,750.00 | 0 | \$0.00 | 0.3 | \$1,050.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0.2 | \$700.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 R | Live Stake (Furnish and Install) | Each | 148 | \$15.50 | \$2,294.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 148 | \$2,294.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 S | #10 Cont. Tree (Furnish and Install) | Each | 30 | \$350.00 | \$10,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 30 | \$10,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 T | Shrub, Bare Root (Furnish and Install) | Each | 182 | \$25.50 | \$4,641.00 | 0 | \$0.00 | 101 | \$2,575.50 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 81 | \$2,065.50 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 U | Herbaceous Plug (Furnish, Install by others) | Each | 2520 | \$1.50 | \$3,780.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2520 | \$3,780.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 U | Herbaceous Plug (Furnish, Special Order) | Each | 59 | \$9.10 | \$536.90 | 0 | \$0.00 | 1 | \$0.00 | 1 | \$0.00 | 1 | \$0.00 | 59 | \$536.90 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 U | Straw Mulch | AC | 7.7 | \$1,550.00 | \$11,935.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1 | \$1,550.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 V | Shredded Hardwood Mulch | C.Y. | 45 | \$65.00 | \$2,925.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 45 | \$2,925.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 W | Herbaceous Management Site Visit 2018 | Each | 7 | \$2,500.00 | \$17,500.00 | 0 | \$0.00 | 3 | \$7,500.00 | 3 | \$7,500.00 | 1 | \$2,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 X | Herbaceous Management Site Visit 2019 | Each | 7 | \$2,500.00 | \$17,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 1 | \$2,500.00 | 1 | \$2,500.00 | 2 | \$5,000.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 1.06 Y | Herbaceous Management Site Visit 2020 | Each | 7 | \$2,500.00 | \$17,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$5,000.00 | 2 | \$5,000.00 | 2 | \$5,000.00 | 1 | \$2,500.00 |
| CONSTRUCTION SUBTOTAL | | | | | \$199,761.90 | | \$46,150.00 | | \$39,463.00 | | \$7,500.00 | | \$6,585.00 | | \$536.90 | | \$52,824.50 | | \$2,500.00 | | \$5,000.00 | | \$5,000.00 | | \$5,000.00 | | \$5,000.00 | | \$2,500.00 |



Landbridge Ecological, Inc.
670 Vandalia Street
Saint Paul, MN 55114
Phone: (612)503-4420 Fax: () -

Bill To:
18681 Lake Dr. E.

Chanhassen, MN 55317

Date: December 31, 2020
Invoice: 294
Project Manager:
Application No: 1
Project Type:
Project/Spanner/PUF: 17054
P.O.:

Attention:

Location: 17054 - Scenic Heights Restoration

| Item Code | This Billing | Footage To Date | Description of Work | Unit Price | Per | Total Cost To Date | Total Cost This Billing |
|-------------------------------|--------------|-----------------|----------------------------|------------|-----|--------------------|-------------------------|
| 1 | 1.00 | 1.00 | Herbaceous Mgmt Visit 2020 | 2,500.00 | EA | 2,500.00 | 2,500.00 |
| Total Invoice To Date: | | | | | | 2,500.00 | |
| Total Invoice Due: | | | | | | | 2,500.00 |



. our Contractor Affidavit request is Approved. A copy of this page MUST be provided to the contractor or government agency that hired you.

Submitted Date and Time: 6-Jan-2021 3:25:17 PM
Confirmation Number: 1-579-930-400
Name: LANDBRIDGE ECOLOGICAL INC
ID: 1542318
Affidavit Number: 1504710656
Project Owner: RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Project Number: 23/27-0053.14-023
Project Begin Date: 12/1/2017
Project End Date: 1/6/2021
Project Location: MINNETONKA
Project Amount: \$178,059.40
Subcontractors: No Subcontractors

Please [print this page](#) for your records using the print or save functionality built into your browser.

MEMORANDUM

TO: RPBCWD Board of Managers

FROM: Terry Jeffery, Watershed Planner

DATE: March 3, 2021

RE: Silver Lake Cooperative Agreement

As discussed in detail in the engineer's memo in the packet for this month's meeting, RPBCWD is prepared to solicit bids for implementation of the Silver Lake Watershed Project. While the board authorized execution by the administrator of a cooperative agreement with the City of Chanhassen for the project at the July 2020 meeting, the city, in fact, authorized execution of an agreement with RPBCWD that provides for execution by the president (which is the more appropriate alignment of agents between the city and watershed district). The city has provided a signed agreement to RPBCWD.

In addition, development of the project design since July has led to the determination that stabilization work is needed on the private property adjacent to the Chanhassen property that is the principal location of the ravine draining to Silver Lake. The property owners have been approached by city representatives and have expressed initial indications of willingness to execute a term access and construction license for the project.

To keep project implementation on track, it will be most efficient to authorize the president to execute the cooperative agreement with the city and a land-use license with the private property owners, Susan C. & Daniel E. Kendrick.

Recommendation: Authorize the president, on advice of counsel, to execute the cooperative agreement with the city and a land-use license with property owners Susan C. & Daniel E. Kendrick, both for the Silver Lake Watershed Project.

cc. Claire Bleser, District Administrator
Smith Partners, LLP

RESOLUTION NO. 2021-002
Riley-Purgatory-Bluff Creek Watershed District
Board of Managers

Authorizing execution of agreements for the Silver Lake Water Quality Improvement Project

Manager _____ offered the following resolution and moved its adoption, seconded by
Manager _____:

WHEREAS in 2016 the Minnesota Pollution Control Agency designated Silver Lake as impaired for aquatic recreation because of excessive nutrients, and Silver Lake continues to fall short of meeting its designated-use classification;

WHEREAS the Riley-Purgatory-Bluff Creek Watershed District's 2018 10-Year Watershed Management Plan (Plan) identified excessive nutrient loading as an ongoing harm to water quality in Silver Lake, a public water within both Chanhassen and Shorewood, and the capital improvement program in the Plan includes a project to reduce phosphorus loading to Silver Lake by constructing storage in stormwater basins, installing bench or perimeter filters in such basins for soluble phosphorus removal and installing water-reuse systems to use basin water for irrigation;

WHEREAS on March 4, 2020, the RPBCWD Board of Managers ordered construction of a project implementing phosphorus loading-reduction strategies developed by the RPBCWD engineer, including construction of ditch checks with iron-enhanced sand in ravines upgradient of and tributary to Silver Lake (the Project);

WHEREAS the Project is designed to be constructed on and in a ravine that flows from Pleasantview Road to Silver Lake across private property owned by Susan and Daniel Kendrick and through Pleasant View Preserve, a park area owned by the City of Chanhassen;

WHEREAS the City of Chanhassen has executed a cooperative agreement that provides RPBCWD with land-use rights necessary for and post-construction maintenance of the Project, and while the RPBCWD Board of Managers authorized the administrator to execute the agreement on behalf of RPBCWD at its July 2020 regular meeting, the RPBCWD Board of Managers wishes to authorize the president to execute the agreement; and

WHEREAS the Kendricks have indicated a willingness to grant RPBCWD the temporary rights to use their property necessary for construction of the Project as designed, and RPBCWD has prepared a term license for the purposes.

NOW THEREFORE BE IT RESOLVED that the Board of Managers authorizes the RPBCWD president, on advice of counsel, to execute the cooperative agreement with the city and a land-

use license with property owners Susan C. & Daniel E. Kendrick, both for the Silver Lake Watershed Project.

The question was on the adoption of the resolution and there were ____ yeas and ____ nays as follows:

Yea Nay Abstain Absent

CRAFTON
KOCH
PEDERSEN
WARD
ZIEGLER

Upon vote, the president declared the resolution _____.

* * * * *

I, David Ziegler, secretary of the Riley-Purgatory-Bluff Creek Watershed District, hereby certifies that I have compared the above resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcription thereof.

IN TESTIMONY WHEREOF, I set my hand this ____ day of _____, 2021.

David Ziegler, Secretary



Memorandum

SRF No. 13385.00

To: Board of Managers
Riley Purgatory Bluff Creek Watershed District

From: Leah Gifford, PE
SRF Consulting Group, Inc.

Date: February 24, 2021

Subject: St. Hubert School Water Quality Improvement Project and Native Prairie Restoration Project: Bid Authorization

SRF Consulting Group, Inc. has completed the final design of the St. Hubert School Water Quality Improvement Project and Native Prairie Restoration Project that will consist of a new tree trench, rain garden, native plant restoration, and drainage and gully repair. Construction documents including bidding documents, final plans and construction specifications have been prepared. The purpose of this memorandum is to request Board approval for Bid Authorization.

Schedule

The goal is to start construction immediately upon school letting out for summer break and to be completed by the time school begins in September. The schedule below is our anticipated schedule subject to the legal review timeline.

- March 3rd, 2021 Board of Managers authorizes SRF Consulting Group to solicit bids
- March 18th, 2021 Advertise in construction bulletin and local papers
- April 6th, 2021 Mandatory Pre-Bid Meeting (following COVID protocols)
- April 9th, 2021 Questions due
- April 16th, 2021 Open Bids
- May 5th, 2021 Board approval of bid
- June 2nd, 2021 School is out for summer break
- June 7th, 2021 Construction begins

Project Permit Status

The project permit status is as follows:

- RPBCWD for Erosion Control and Stormwater Management – will be submitted in early March, expect approval in May
- MPCA’s NPDES Construction Stormwater Permit - will be obtained by the contractor
- City of Chanhassen Grading Permit - will be submitted in March
- City of Chanhassen Zoning Permit – will be submitted in March

www.srfconsulting.com

3701 Wayzata Boulevard, Suite 100 | Minneapolis, MN 55416-3791 | 763.475.0010

Equal Employment Opportunity / Affirmative Action Employer

Project Estimate

The Engineer's Estimate of Cost for Construction is tabulated below:

| | |
|--------------------------------------|-----------|
| Final Design Base Bid Cost Estimate: | \$204,800 |
| Bid Alternate Cost Estimate: | \$ 66,300 |
| Construction Contingency (10%): | \$ 27,100 |
| <hr/> | |
| Project Total Estimate: | \$298,200 |

For reference, the Preliminary Cost Estimate was \$277,000. Bid Alternate items include many that the school will fundraise for, such as stone seating blocks, large caliper trees, and optional sidewalk, as well as selected perennial vegetation quantities that can be adjusted as needed. (There are perennials in the base bid for the rain garden and tree trench.)

Project Funding

The project has various project grants and partners. The funds are managed by the Watershed District and should be confirmed by staff.

| | |
|--|--------------------------------------|
| MetCouncil Grant Funding | \$ 75,000 |
| Targeted Watershed Funding | \$ 63,865 |
| School contribution to Water Quality Project | \$ 45,000 |
| School Portion of the Project (Playground items) | \$ 33,800 + Bid Alternates as needed |
| <hr/> | |
| Total for Construction | \$217,665 |

Carver County SWCD is also contributing \$25,000 towards engineering costs.

Attachments:

- A) Project Manual Cover
- B) Table of Contents
- C) Advertisement for Bid
- D) Plan Set

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

St. Hubert School Water Quality and Landscape Project Manual

For Construction

February 2021

This plan or specification was prepared specifically for this project, and any reuse of details or specifications on other projects is not intended or authorized by the designer. Liability for any reuse on other projects is the responsibility of the person, agency or corporation using plan or specification data from this project.

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512



www.srfconsulting.com

3701 Wayzata Boulevard, Suite 100 | Minneapolis, MN 55416-3791 | 763.475.0010

Equal Employment Opportunity / Affirmative Action Employer

SECTION 00 01 10 - TABLE OF CONTENTS

INTRODUCTORY INFORMATION

| | |
|----------|-------------------|
| 00 01 10 | Table of Contents |
| 00 01 05 | Certifications |

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

| | |
|----------|------------------------------------|
| 00 11 13 | Advertisement for Bids |
| 00 21 13 | Instructions to Bidders |
| 00 25 13 | Prebid Meetings |
| 00 41 43 | Bid Form |
| 00 43 22 | Unit Prices Form |
| 00 43 23 | Alternates Form |
| 00 43 13 | Bid Bond |
| 00 45 13 | Responsible Contractor Statement |
| 00 51 00 | Notice of Award |
| 00 52 13 | Notice to Proceed |
| 00 52 13 | Form of Agreement |
| 00 60 00 | Payment and Performance Bond Forms |
| 00 72 13 | General Conditions |
| 00 73 00 | Supplementary Conditions |

DIVISION 01 - GENERAL REQUIREMENTS

| | |
|----------|-------------------------------------|
| 01 10 00 | Summary of Work |
| 01 22 00 | Unit Prices |
| 01 23 00 | Alternates |
| 01 25 00 | Substitution Procedures |
| 01 26 00 | Contract Modification Procedures |
| 01 27 00 | Measurement and Payment |
| 01 29 00 | Payment Procedures |
| 01 31 00 | Project Management and Coordination |
| 01 33 00 | Submittal Requirements |
| 01 40 00 | Quality Requirements |
| 01 41 26 | Permit Requirements |
| 01 42 00 | References |
| 01 56 00 | Temporary Barriers and Enclosures |
| 01 60 00 | Product Requirements |
| 01 77 00 | Closeout Procedures |
| 01 78 23 | Operation and Maintenance Data |
| 01 78 39 | Project Record Documents |

DIVISION 31 – EARTHWORK

| | |
|----------|-----------------------------------|
| 31 10 00 | Site Clearing and Erosion Control |
| 31 20 00 | Earth Moving |

DIVISION 32 – EXTERIOR IMPROVEMENTS

| | |
|----------|---------------------------------|
| 32 12 16 | Asphalt Paving |
| 32 13 13 | Concrete Paving |
| 32 31 16 | Native Seeding Protection Fence |
| 32 91 13 | Soil Preparation |
| 32 92 00 | Turf and Grasses |
| 32 92 20 | Native Vegetation Maintenance |

St. Hubert School Water Quality and Native Landscape Project

32 93 00 Landscape Planting

DIVISION 33 – UTILITIES

33 41 00 Storm Utility Drainage Piping

33 49 00 Storm Drainage Structures

33 50 00 Storm Water Treatment Device

END OF SECTION 00 01 10

St. Hubert School Water Quality and Native Landscape Project

**SECTION 00 11 13
ADVERTISEMENT FOR BIDS**

Sealed Bids for: St. Hubert School Water Quality and Native Landscape Project
will be received by: Riley Purgatory Bluff Creek Watershed District
c/o SRF Consulting Group, Inc.
3701 Wayzata Blvd, Minneapolis, Minnesota 55416

Until 1:00 PM, April 16th, 2021 at which time the bids will be opened and publicly read aloud.

Project Scope:

The project work includes furnishing all labor, materials, equipment, skills and performing all operations required for:

1. Mobilize labor, equipment, materials, and temporary facilities, including survey and other temporary controls.
2. Install safety measures, establish limits of construction and protect all existing utilities and structures.
3. Install erosion control items.
4. Removals, including pavement, concrete curb and gutter, and site features.
5. Common excavation for rain garden, tree trench, trench drains and minor grading.
6. Haul excess excavated material offsite.
7. Seed bed preparation.
8. Install storm pipe and drainage structures.
9. Install tree trench, rain garden, and stormwater depression.
10. Repair/install pavement, paths, sidewalk, and curb and gutter.
11. Native seeding, install plantings
12. Landscape feature installation (boulders, benches, railing, etc)
13. Demobilize from the site after work is complete.

Plans and specifications, instructions to bidders, bid form, unit price form, and contract documents may be seen at the office of SRF Consulting Group, Inc., 3701 Wayzata Blvd, Minneapolis, Minnesota 55416, or on the Quest CDN website, project number **XXXXXXX**.

A list of Plan Holders can be viewed on line at Quest CDN website:

<http://www.questcdn.com/questcdn/>

No bids will be considered unless submitted on the forms provided, sealed and accompanied by a bidder's security naming Riley Purgatory Bluff Creek Watershed District (hereinafter referred to as the "Owner") as obligee, certified check payable to the Owner or a Bid Bond by a surety meeting the requirements of paragraph 5.01.B of the General Conditions equal to at least five percent (5%) of the total amount of the bid, which shall be forfeited to the Owner in the event that the bidder fails to enter into a contract.

St. Hubert School Water Quality and Native Landscape Project

The Owner reserves the right to retain the deposits of the three lowest bidders for a period not to exceed ninety (90) days after the date and time set for the opening of bids. Deposits of the higher bidders will be returned within sixty (60) days of bid opening. No bids will be withdrawn for a period of sixty (60) days after the date and time set for the opening bids. Payment for the work will be by check.

Contractors desiring a printed copy of the plans, specifications and proposal forms may purchase them from the office of SRF Consulting Group, Inc. (hereinafter referred to as the "Engineer"), 3701 Wayzata Blvd, Minneapolis, Minnesota 55416, upon payment of \$100.00, which is nonrefundable.

The Owner may make investigation as they deem necessary to determine the ability of the Bidder to perform the work. The Bidder shall furnish the Owner all such information and data for this purpose as the Owner may request. A Responsible Bidder Evaluation form is included in the accompanying documents that may be used as part of such investigations.

The Owner reserves the right to reject any and all bids, to waive irregularities and informalities therein and further reserves the right to award the contract(s) to the best interests of the Board.

The potential bidders' attention is directed to the Instructions to Bidders Section 002113 Article 20 and Section 002513 Pre-Bid Meeting with regard to the pre-bid meeting scheduled for 1:00 p.m., Central Time on **April 6, 2021**, at St. Hubert School on 8201 Main Street, Chanhassen, MN 55317, unless otherwise modified by Addendum.

Direct inquiries can be made to Owner's Representative, Leah Gifford, SRF at (763) 475-0010.

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Scott Sobiech, PE
District Engineer
(952) 832-2755
ssobiech@barr.com

Published in the Sun Sailor
Published in the Sun Current
Published in the Chaska Herald
Published in the Chanhassen Villager
Published on QuestCDN

End of Section 00 11 13

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

CHANHASSEN, MINNESOTA

PLANS FOR: RAINWATER REUSE, TREE TRENCHES, PLAYGROUND IMPROVEMENT, GRADING,
NATIVE PLANTING, DRAINAGE IMPROVEMENTS

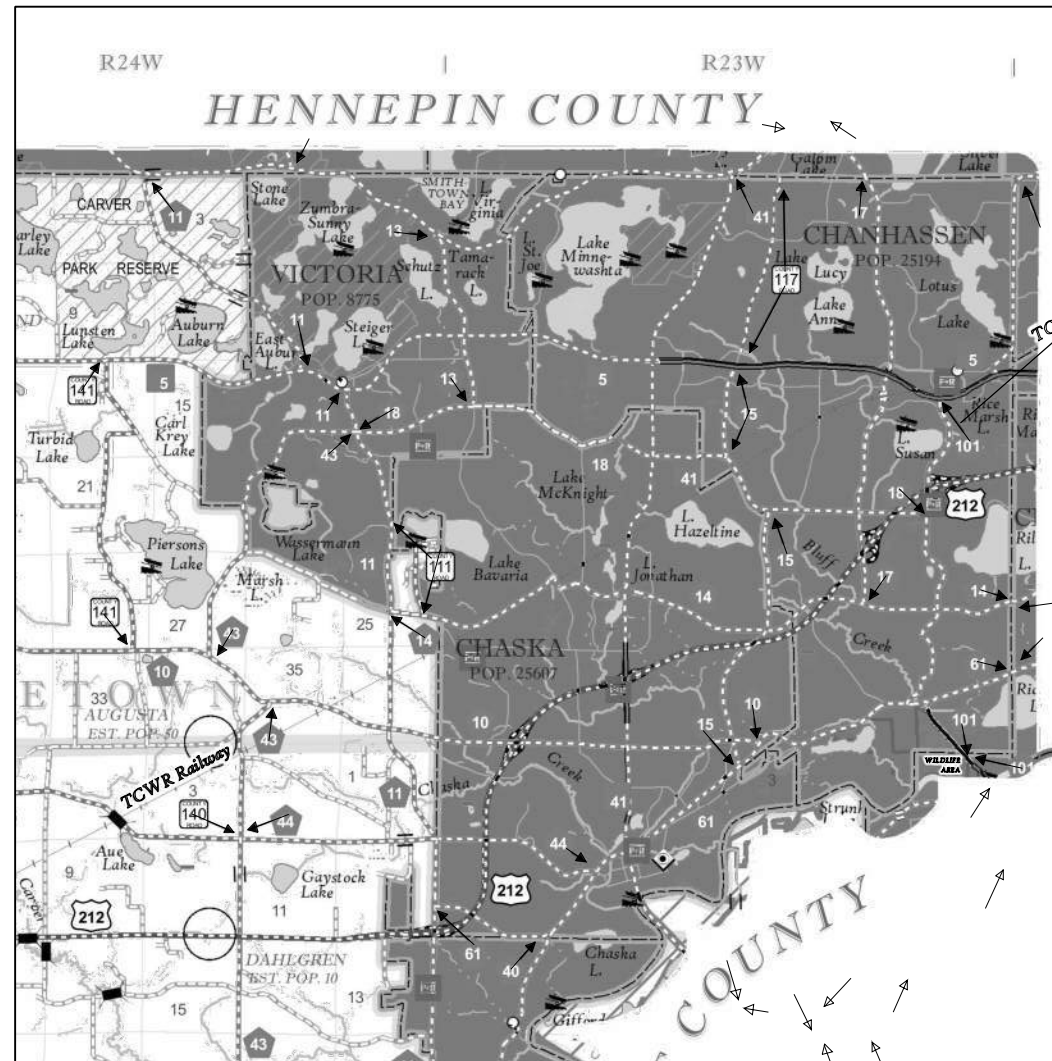
ST. HUBERT SCHOOL WATER QUALITY AND LANDSCAPING PROJECT

PLAN SYMBOLS

| | |
|--------------------------------------|------------|
| STATE LINE | ---- |
| COUNTY LINE | ---- |
| TOWNSHIP OR RANGE LINE | ---- |
| SECTION LINE | ---- |
| QUARTER LINE | ---- |
| SIXTEENTH LINE | ---- |
| RIGHT-OF-WAY LINE | ---- |
| PRESENT RIGHT-OF-WAY LINE | ---- |
| CONTROL OF ACCESS LINE | ○-○-○ |
| PROPERTY LINE (EXCEPT LONG LINES) | ---- |
| VACATED PLATTED PROPERTY | ---- |
| CORPORATE OR CITY LIMITS | ---- |
| TRUNK HIGHWAY CENTER LINE | ---- |
| CONC. RETAINING WALL | ---- |
| RAILROAD | ---- |
| RAILROAD RIGHT-OF-WAY LINE | ---- |
| RIVER OR CREEK | ---- |
| DRY RUN | ---- |
| DRAINAGE DITCH | ---- |
| DRAIN TILE | ---- |
| CULVERT | ---- |
| DROP INLET | ○ |
| GUARD RAIL | ---- |
| BARBED WIRE FENCE | ---- |
| WOVEN WIRE FENCE | ---- |
| CHAIN LINK FENCE | ---- |
| RAILROAD SNOW FENCE | ---- |
| STONE WALL OR FENCE | ---- |
| HEDGE | ---- |
| RAILROAD CROSSING SIGN | ---- |
| RAILROAD CROSSING BELL | ---- |
| ELECTRIC WARNING SIGN | ---- |
| CROSSING GATE | ---- |
| MEANDER CORNER | + |
| MAIL BOX | MB |
| SPRINGS | ---- |
| MARSH | ---- |
| TIMBER | (TIMBER) |
| ORCHARD | ---- |
| BRUSH | ---- |
| NURSERY | ---- |
| CATCH BASIN | C.B. □ |
| FIRE HYDRANT | ○ |
| CATTLE GUARD | ---- |
| OVERPASS (Highway Over) | ---- |
| UNDERPASS (Highway Under) | ---- |
| BRIDGE | ---- |
| BUILDING (One Story Frame) | EST |
| F-FRAME | C-CONCRETE |
| S-STONE | T-TILE |
| B-BRICK | ST-STUCCO |
| IRON PIPE OR ROD | ○ |
| MONUMENT (STONE, CONCRETE, OR METAL) | □ |
| WOODEN HUB | ■ |
| GRAVEL PIT | ⊙ |
| SAND PIT | ⊙ |
| BORROW PIT | ⊙ |
| ROCK QUARRY | ⊙ |

UTILITY SYMBOLS

| | |
|--|-------|
| POWER POLE LINE | ---- |
| TELEPHONE OR TELEGRAPH POLE LINE | ---- |
| JOINT TELEPHONE AND POWER ON POWER POLES | ---- |
| JOINT TELEPHONE AND POWER ON TELEPHONE POLES | ---- |
| ANCHOR | ↑ |
| STEEL TOWER | △ |
| STREET LIGHT | ★ |
| PEDESTAL (TELEPHONE CABLE TERMINAL) | □ |
| GAS MAIN | ---- |
| WATER MAIN | ---- |
| CONDUIT | ---- |
| TELEPHONE CABLE IN CONDUIT | ---- |
| ELECTRIC CABLE IN CONDUIT | ---- |
| TELEPHONE MANHOLE | □ |
| ELECTRIC MANHOLE | □ |
| BURIED TELEPHONE CABLE | T-BUR |
| BURIED ELECTRIC CABLE | P-BUR |
| AERIAL TELEPHONE CABLE | ---- |
| SEWER, (SANITARY) | ---- |
| SEWER, (STORM) | ---- |
| SEWER MANHOLE | ---- |
| HANDHOLE | ⊕ |



PROJECT LOCATION

SCALES

| | |
|-----------|-----------------------|
| PLAN | 30' |
| PROFILE | 100' HORIZ. 10' VERT. |
| X-SECTION | 20' HORIZ. 20' VERT. |

| PLAN REVISIONS | | |
|----------------|-----------|-------------|
| DATE | SHEET NO. | APPROVED BY |
| | | |
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INDEX

| SHEET NO. | SHEET DESCRIPTION |
|-----------|---|
| 1 | TITLE SHEET |
| 2 | GENERAL LAYOUT |
| 3-5 | UTILITY AND EXISTING CONDITIONS PLAN |
| 6-8 | REMOVAL PLAN |
| 9-11 | DRAINAGE, CONTOUR AND EROSION CONTROL PLAN |
| 12-14 | PAVEMENT PLAN |
| 15 | DRAINAGE PROFILES |
| 16-22 | DRAINAGE DETAILS |
| 23-26 | STORM WATER POLLUTION PREVENTION PLAN (SWPPP) |
| 27-33 | LANDSCAPE PLAN |
| 34-40 | LANDSCAPE DETAILS |

THIS PLAN CONTAINS.....40.....SHEETS



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE _____
DATE 11/23/2020 LIC. NO. 52263 PRINT NAME LEAH GIFFORD

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

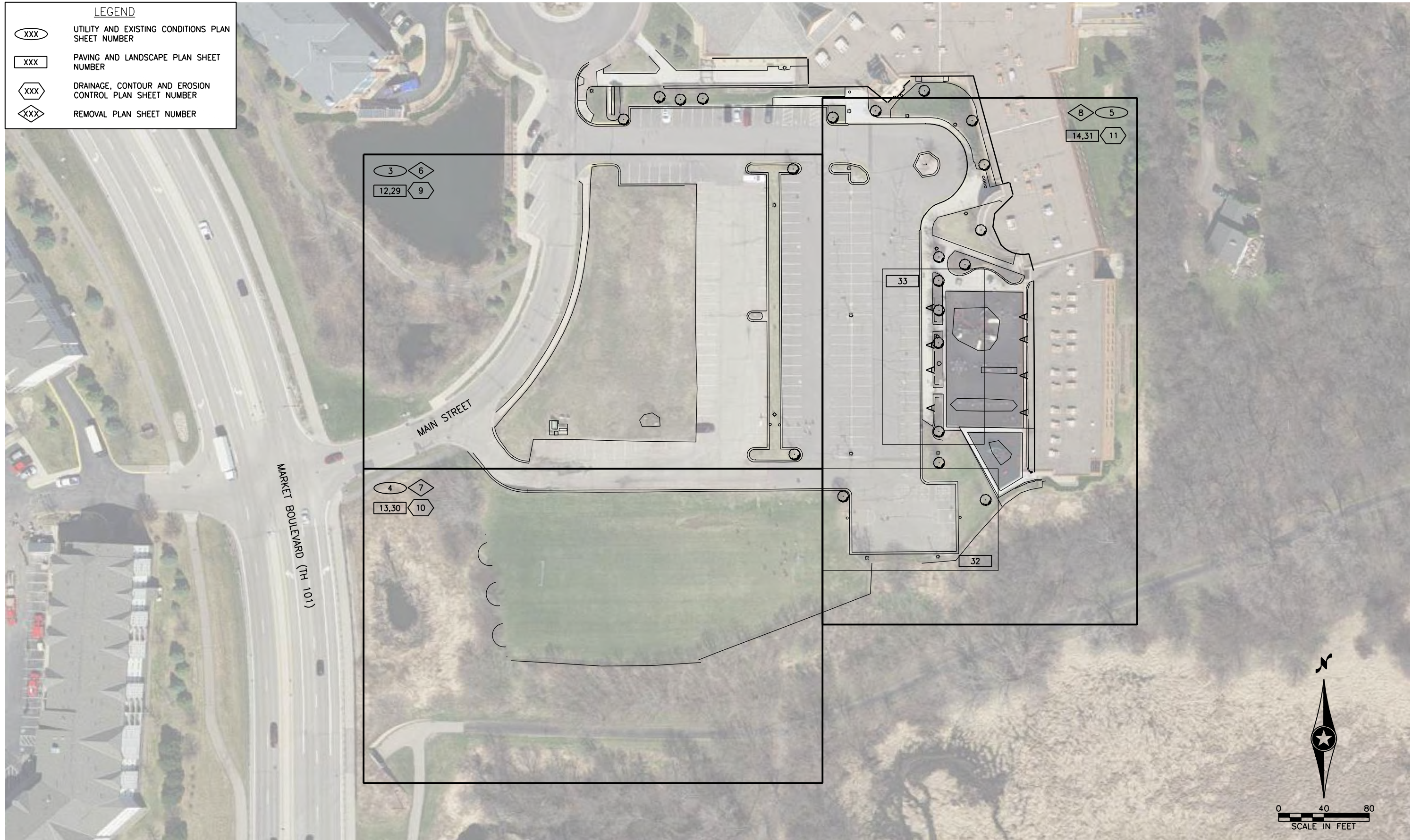
SIGNATURE _____
DATE 11/23/2020 LIC. NO. 47256 PRINT NAME SEAN JERGENS

THIS PLAN AND/OR SPECIFICATION WAS PREPARED SPECIFICALLY FOR THIS PROJECT, AND ANY RE-USE OF DETAILS OR SPECIFICATIONS ON OTHER PROJECTS IS NOT INTENDED OR AUTHORIZED BY THE DESIGNER. LIABILITY FOR ANY RE-USE ON OTHER PROJECTS IS THE RESPONSIBILITY OF THE PERSON, AGENCY, OR CORPORATION USING PLAN OR SPECIFICATION DATA FROM THIS PROJECT.

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

LEGEND

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



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

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



ST HUBERT SCHOOL PROJECT
 GENERAL LAYOUT PLAN
 CHANHASSEN, MINNESOTA

SHEET
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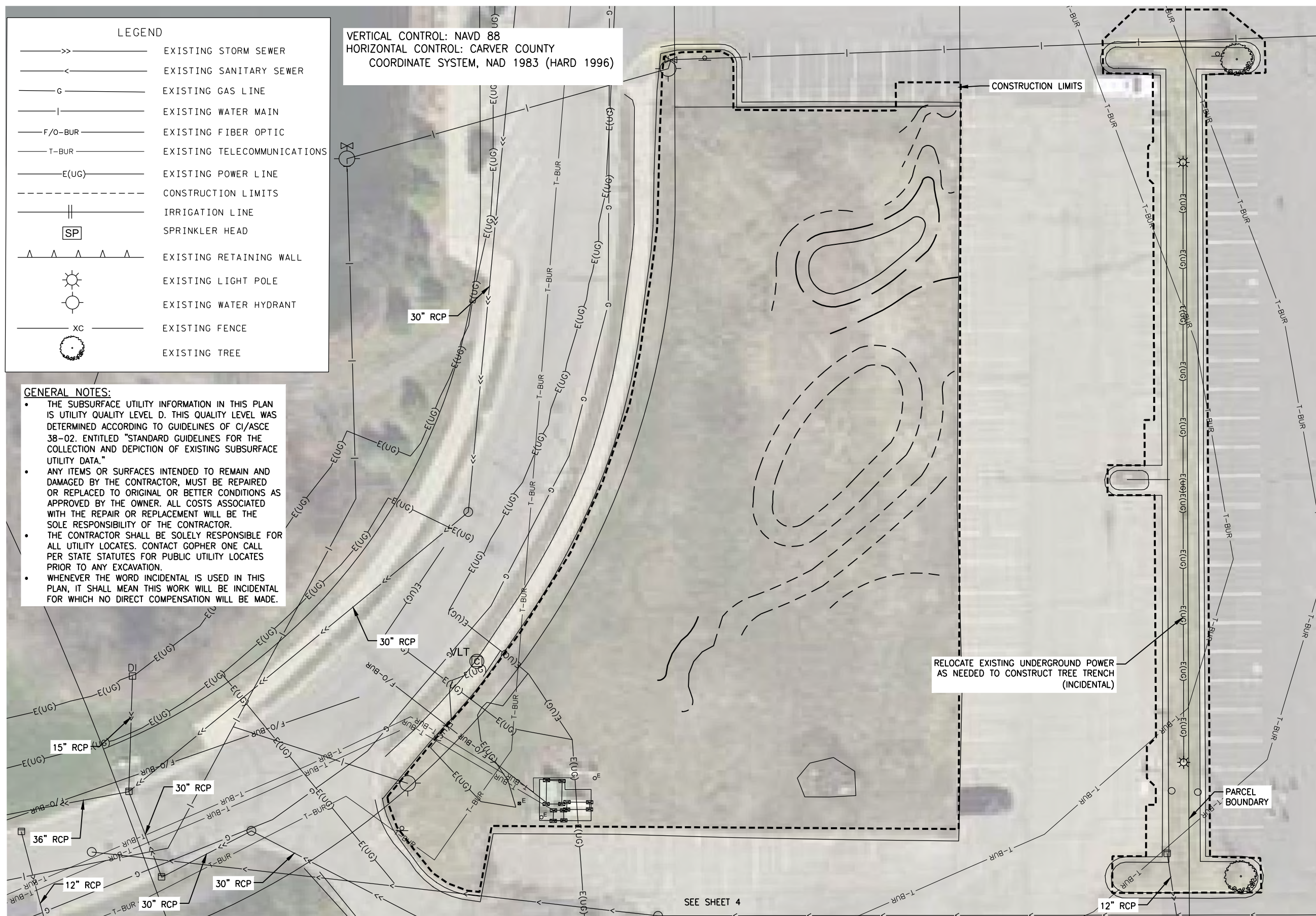
LEGEND

- EXISTING STORM SEWER
- ←←←←← EXISTING SANITARY SEWER
- G EXISTING GAS LINE
- | EXISTING WATER MAIN
- F/O-BUR EXISTING FIBER OPTIC
- T-BUR EXISTING TELECOMMUNICATIONS
- E(UG) EXISTING POWER LINE
- - - - - CONSTRUCTION LIMITS
- || IRRIGATION LINE
- [SP] SPRINKLER HEAD
- ▲▲▲▲▲ EXISTING RETAINING WALL
- ☀ EXISTING LIGHT POLE
- ⊙ EXISTING WATER HYDRANT
- XC EXISTING FENCE
- ⊙ EXISTING TREE

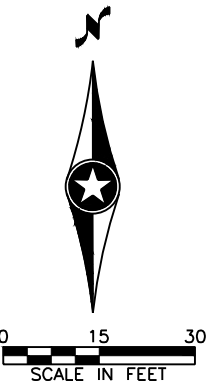
VERTICAL CONTROL: NAVD 88
 HORIZONTAL CONTROL: CARVER COUNTY
 COORDINATE SYSTEM, NAD 1983 (HARD 1996)

GENERAL NOTES:

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- ANY ITEMS OR SURFACES INTENDED TO REMAIN AND DAMAGED BY THE CONTRACTOR, MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITIONS AS APPROVED BY THE OWNER. ALL COSTS ASSOCIATED WITH THE REPAIR OR REPLACEMENT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES. CONTACT GOPHER ONE CALL PER STATE STATUTES FOR PUBLIC UTILITY LOCATES PRIOR TO ANY EXCAVATION.
- WHENEVER THE WORD INCIDENTAL IS USED IN THIS PLAN, IT SHALL MEAN THIS WORK WILL BE INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.



SEE SHEET 5



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

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

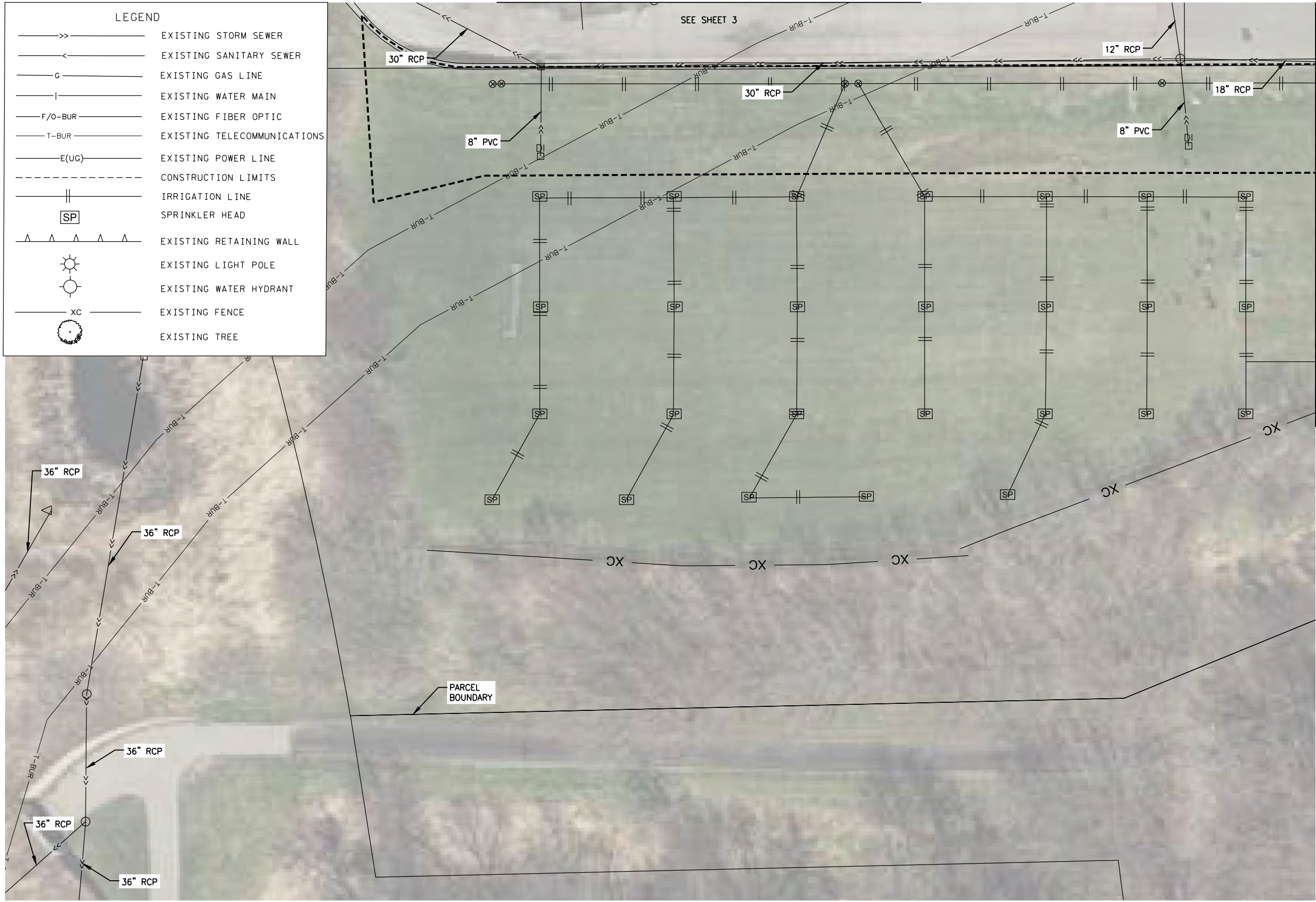


ST HUBERT SCHOOL PROJECT
 UTILITY AND EXISTING CONDITIONS PLAN
 CHANHASSEN, MINNESOTA

SHEET
3
 OF
40

LEGEND

| | |
|--|-----------------------------|
| | EXISTING STORM SEWER |
| | EXISTING SANITARY SEWER |
| | EXISTING GAS LINE |
| | EXISTING WATER MAIN |
| | EXISTING FIBER OPTIC |
| | EXISTING TELECOMMUNICATIONS |
| | EXISTING POWER LINE |
| | CONSTRUCTION LIMITS |
| | IRRIGATION LINE |
| | SPRINKLER HEAD |
| | EXISTING RETAINING WALL |
| | EXISTING LIGHT POLE |
| | EXISTING WATER HYDRANT |
| | EXISTING FENCE |
| | EXISTING TREE |



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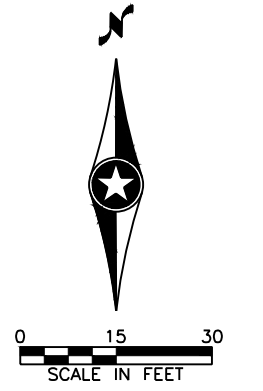
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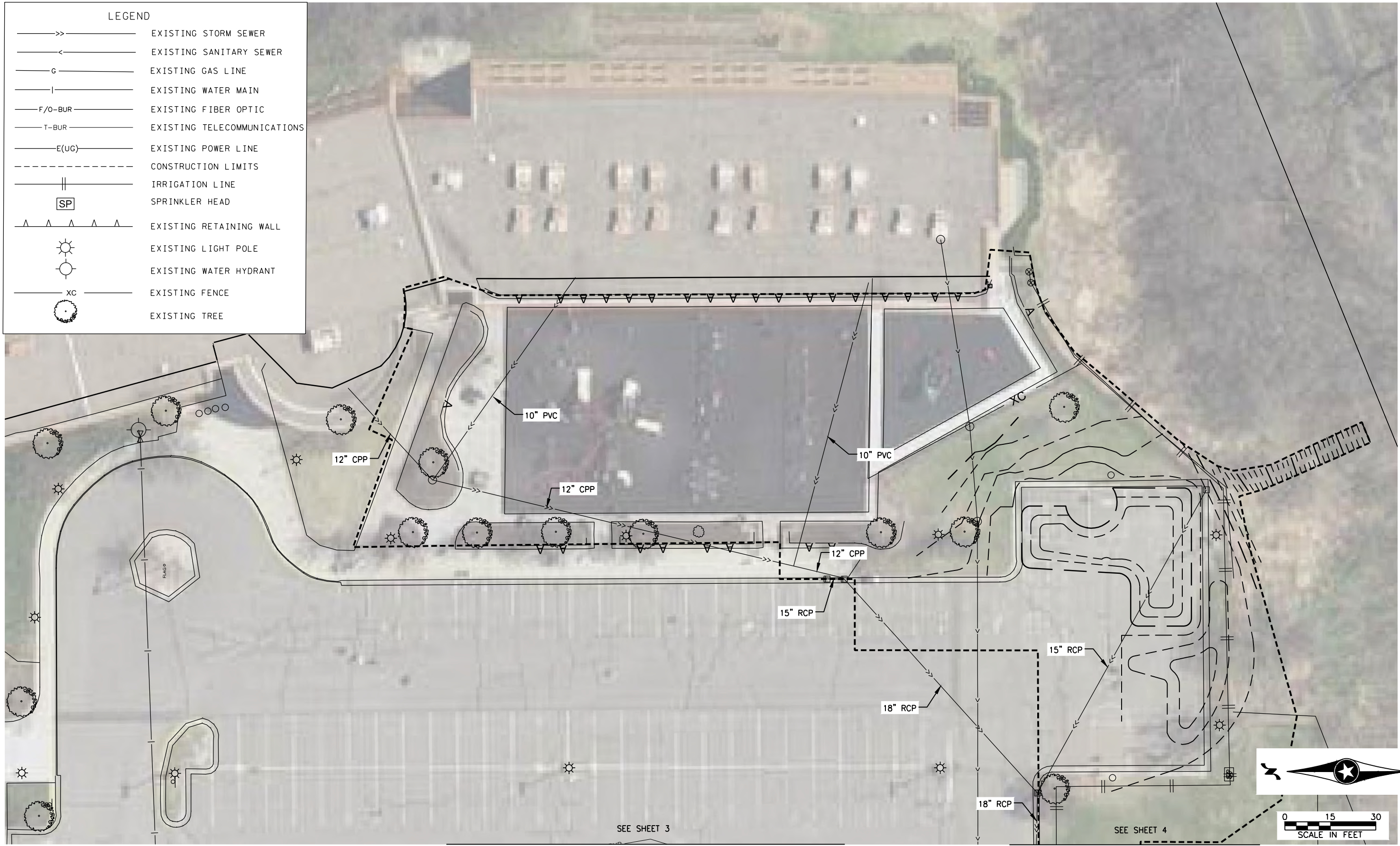


ST HUBERT SCHOOL PROJECT
 UTILITY AND EXISTING CONDITIONS PLAN
 CHANHASSEN, MINNESOTA

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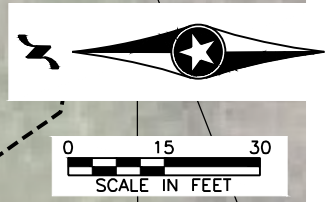


| LEGEND | |
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| | EXISTING STORM SEWER |
| | EXISTING SANITARY SEWER |
| | EXISTING GAS LINE |
| | EXISTING WATER MAIN |
| | EXISTING FIBER OPTIC |
| | EXISTING TELECOMMUNICATIONS |
| | EXISTING POWER LINE |
| | CONSTRUCTION LIMITS |
| | IRRIGATION LINE |
| | SPRINKLER HEAD |
| | EXISTING RETAINING WALL |
| | EXISTING LIGHT POLE |
| | EXISTING WATER HYDRANT |
| | EXISTING FENCE |
| | EXISTING TREE |



SEE SHEET 3

SEE SHEET 4



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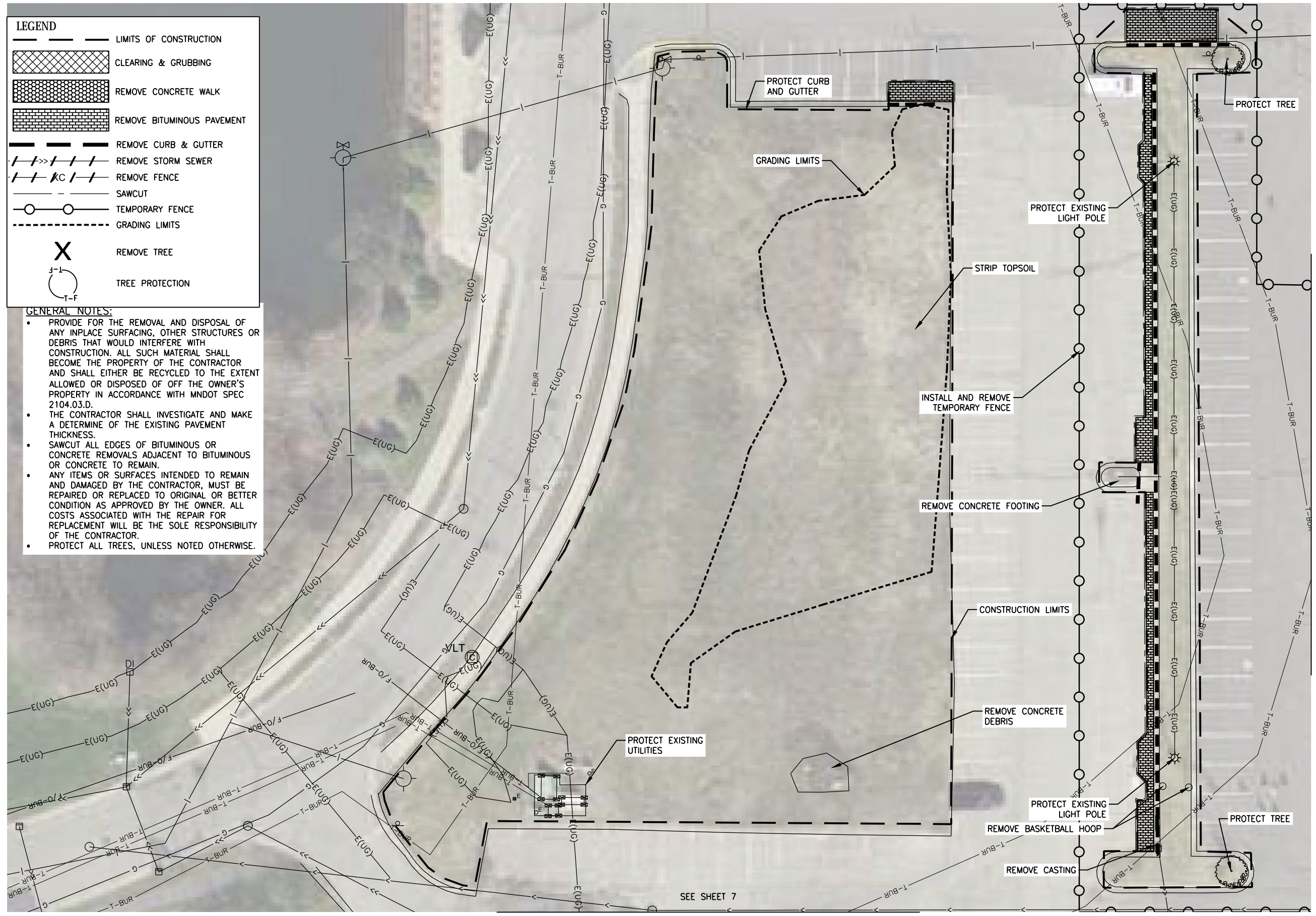
ST HUBERT SCHOOL PROJECT
 UTILITY AND EXISTING CONDITIONS PLAN
 CHANHASSEN, MINNESOTA

SHEET
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LEGEND

- LIMITS OF CONSTRUCTION
- CLEARING & GRUBBING
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CURB & GUTTER
- REMOVE STORM SEWER
- REMOVE FENCE
- SAWCUT
- TEMPORARY FENCE
- GRADING LIMITS
- REMOVE TREE
- TREE PROTECTION

- GENERAL NOTES:**
- PROVIDE FOR THE REMOVAL AND DISPOSAL OF ANY INPLACE SURFACING, OTHER STRUCTURES OR DEBRIS THAT WOULD INTERFERE WITH CONSTRUCTION. ALL SUCH MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL EITHER BE RECYCLED TO THE EXTENT ALLOWED OR DISPOSED OF OFF THE OWNER'S PROPERTY IN ACCORDANCE WITH MNDOT SPEC 2104.03.D.
 - THE CONTRACTOR SHALL INVESTIGATE AND MAKE A DETERMINE OF THE EXISTING PAVEMENT THICKNESS.
 - SAWCUT ALL EDGES OF BITUMINOUS OR CONCRETE REMOVALS ADJACENT TO BITUMINOUS OR CONCRETE TO REMAIN.
 - ANY ITEMS OR SURFACES INTENDED TO REMAIN AND DAMAGED BY THE CONTRACTOR, MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AS APPROVED BY THE OWNER. ALL COSTS ASSOCIATED WITH THE REPAIR FOR REPLACEMENT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - PROTECT ALL TREES, UNLESS NOTED OTHERWISE.



SEE SHEET 8

SEE SHEET 7

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 Date: / / License # 52263

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ST HUBERT SCHOOL PROJECT
 REMOVAL PLAN
 CHANHASSEN, MINNESOTA

SHEET
6
OF
40

| LEGEND | |
|--------|----------------------------|
| | LIMITS OF CONSTRUCTION |
| | CLEARING & GRUBBING |
| | REMOVE CONCRETE WALK |
| | REMOVE BITUMINOUS PAVEMENT |
| | REMOVE CURB & GUTTER |
| | REMOVE STORM SEWER |
| | REMOVE FENCE |
| | SAWCUT |
| | TEMPORARY FENCE |
| | GRADING LIMITS |
| | REMOVE TREE |
| | TREE PROTECTION |



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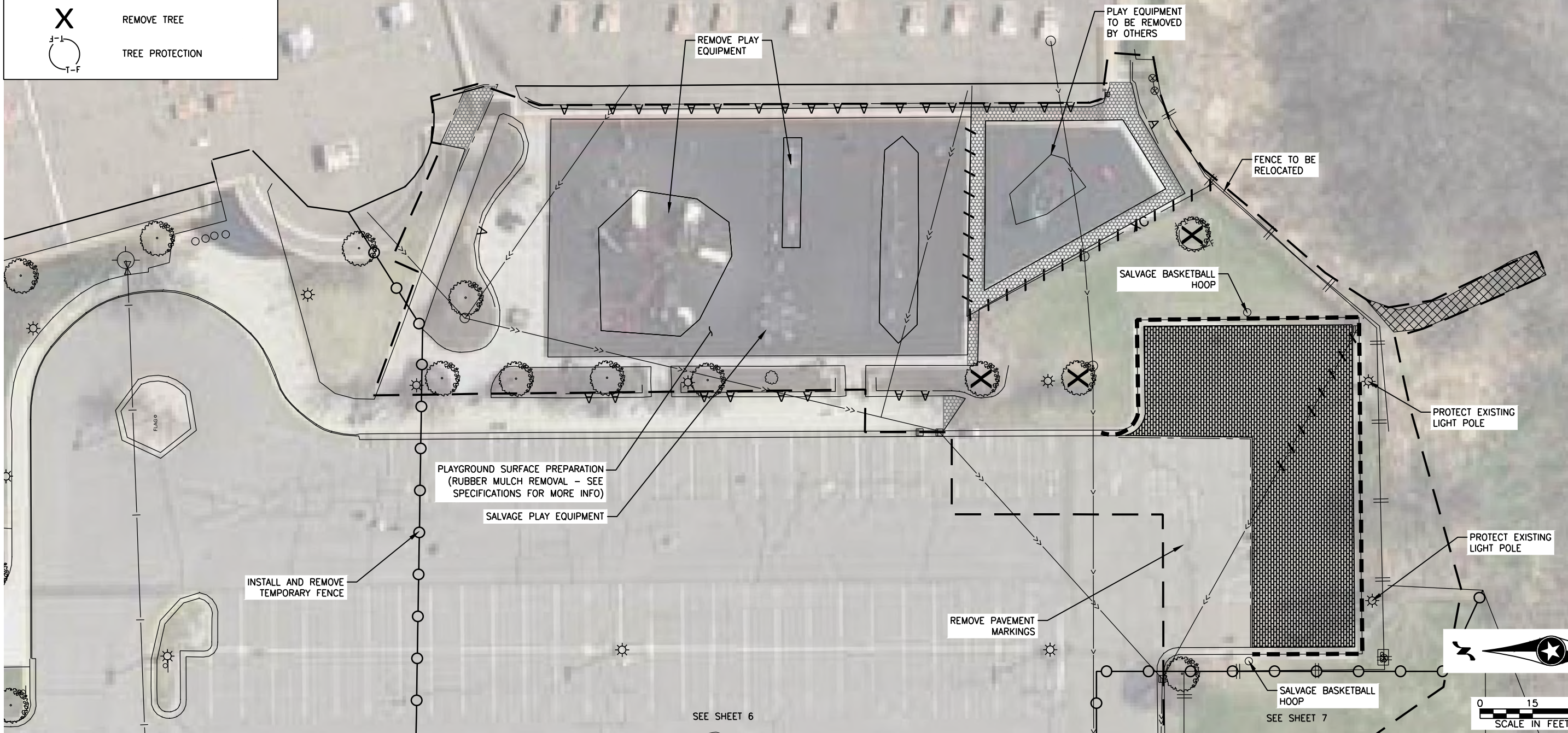
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ST HUBERT SCHOOL PROJECT
 REMOVAL PLAN
 CHANHASSEN, MINNESOTA

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| LEGEND | |
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| | LIMITS OF CONSTRUCTION |
| | CLEARING & GRUBBING |
| | REMOVE CONCRETE WALK |
| | REMOVE BITUMINOUS PAVEMENT |
| | REMOVE CURB & GUTTER |
| | REMOVE STORM SEWER |
| | REMOVE FENCE |
| | SAWCUT |
| | TEMPORARY FENCE |
| | GRADING LIMITS |
| | REMOVE TREE |
| | TREE PROTECTION |



INSTALL AND REMOVE TEMPORARY FENCE

PLAYGROUND SURFACE PREPARATION (RUBBER MULCH REMOVAL - SEE SPECIFICATIONS FOR MORE INFO)

SALVAGE PLAY EQUIPMENT

SEE SHEET 6

REMOVE PAVEMENT MARKINGS

SEE SHEET 7

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 42-05 - (GIS) Users Join on MapDoc (Resolving) (Location) C:\D 2018\en\1
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ST HUBERT SCHOOL PROJECT
 REMOVAL PLAN
 CHANHASSEN, MINNESOTA

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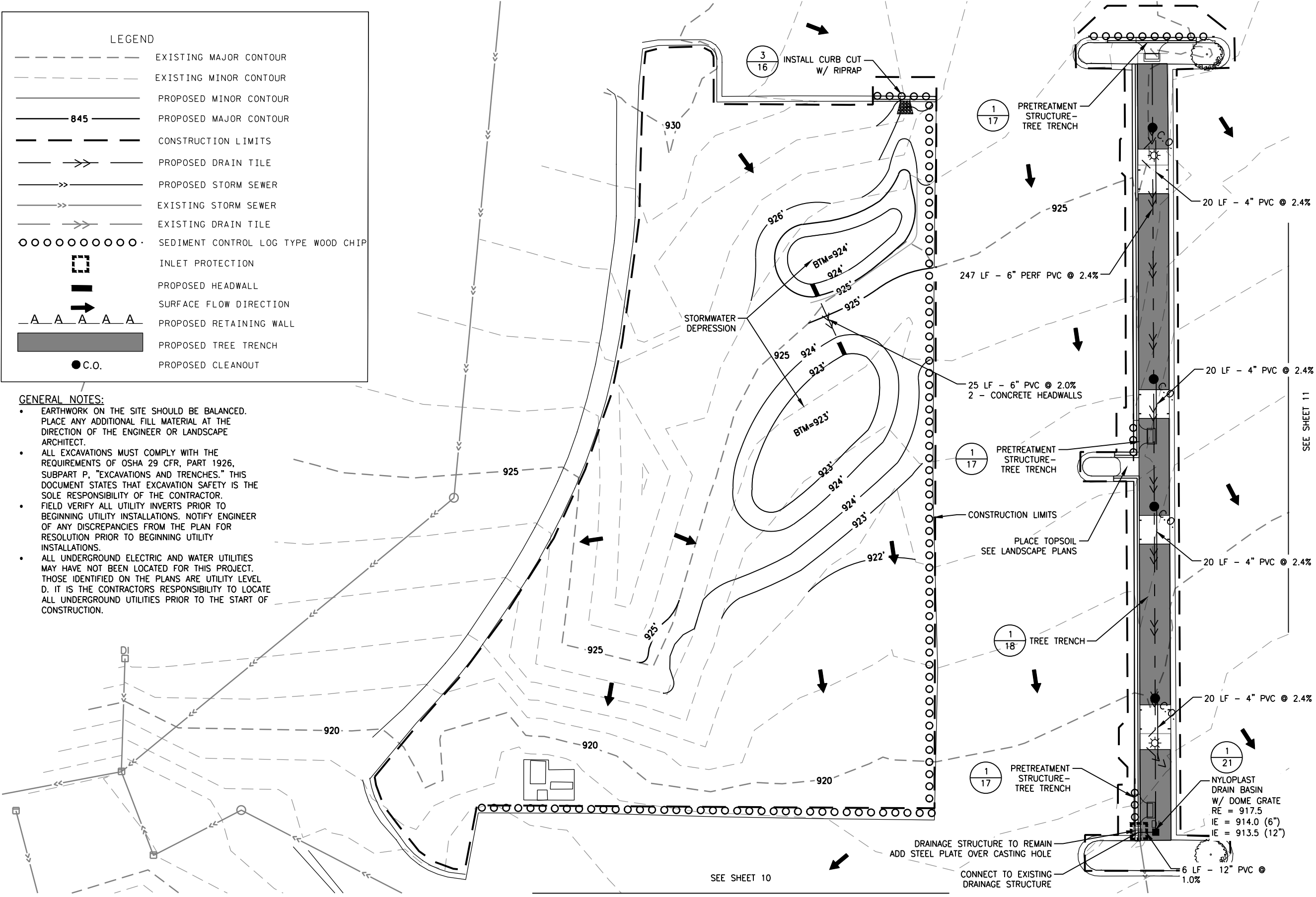
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| | EXISTING MAJOR CONTOUR |
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| | PROPOSED MINOR CONTOUR |
| | PROPOSED MAJOR CONTOUR |
| | CONSTRUCTION LIMITS |
| | PROPOSED DRAIN TILE |
| | PROPOSED STORM SEWER |
| | EXISTING STORM SEWER |
| | EXISTING DRAIN TILE |
| | SEDIMENT CONTROL LOG TYPE WOOD CHIP |
| | INLET PROTECTION |
| | PROPOSED HEADWALL |
| | SURFACE FLOW DIRECTION |
| | PROPOSED RETAINING WALL |
| | PROPOSED TREE TRENCH |
| | PROPOSED CLEANOUT |

GENERAL NOTES:

- EARTHWORK ON THE SITE SHOULD BE BALANCED. PLACE ANY ADDITIONAL FILL MATERIAL AT THE DIRECTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.
- ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FIELD VERIFY ALL UTILITY INVERTS PRIOR TO BEGINNING UTILITY INSTALLATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES FROM THE PLAN FOR RESOLUTION PRIOR TO BEGINNING UTILITY INSTALLATIONS.
- ALL UNDERGROUND ELECTRIC AND WATER UTILITIES MAY HAVE NOT BEEN LOCATED FOR THIS PROJECT. THOSE IDENTIFIED ON THE PLANS ARE UTILITY LEVEL D. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.

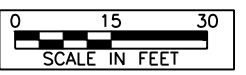
EROSION CONTROL NOTES:

- NATURAL TOPOGRAPHY AND SOIL CONDITIONS MUST BE PROTECTED, INCLUDING RETENTION ON-SITE OF NATIVE TOPSOIL TO THE GREATEST EXTENT POSSIBLE.
- ADDITIONAL MEASURES, SUCH AS HYDRAULIC MULCHING AND OTHER PRACTICES AS SPECIFIED BY THE DISTRICT MUST BE USED ON SLOPES OF 3:1 (H:V) OR STEEPER TO PROVIDE ADEQUATE STABILIZATION.
- FINAL SITE STABILIZATION MEASURES MUST SPECIFY THAT AT LEAST SIX INCHES OF TOPSOIL OR ORGANIC MATTER BE SPREAD OR INCORPORATED INTO THE UNDERLYING SOIL DURING FINAL SITE TREATMENT WHEREVER TOPSOIL HAS BEEN REMOVED.
- CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED SUFFICIENTLY TO ENSURE STABILITY OF THE SITE, AS DETERMINED BY THE DISTRICT.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE REMOVED UPON FINAL STABILIZATION.
- SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF THE SOIL PROFILE WHILE TAKING CARE TO PROTECT UTILITIES, TREE ROOTS, AND OTHER EXISTING VEGETATION. SEE SWPPP FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.



SEE SHEET 11

SEE SHEET 10



JACKIE ARNTSON | 2/24/2021 4:24:16 PM
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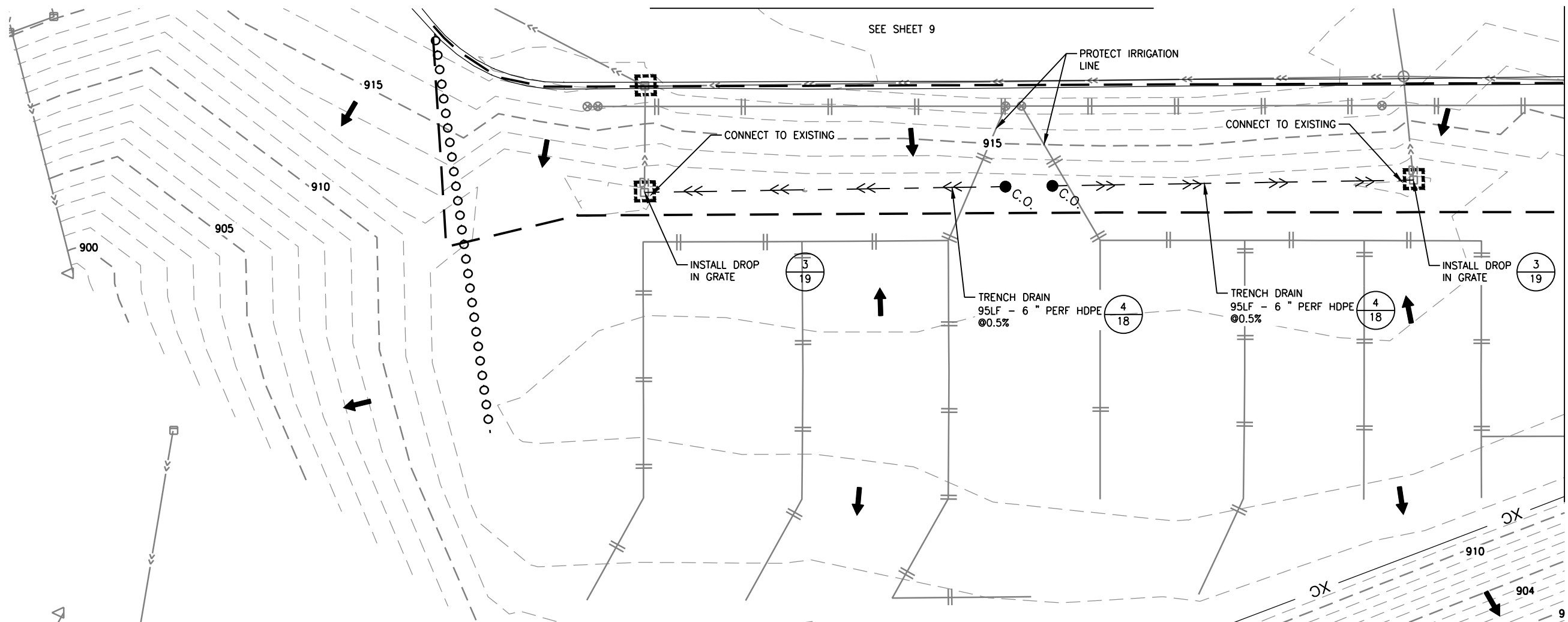
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 Print Name: LEAH GIFFORD
 Date: / / License # 52263

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JPA
 DESIGNED BY
JPA
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LAG
 COMM. NO. 13385



ST HUBERT SCHOOL PROJECT
 DRAINAGE, CONTOUR AND EROSION CONTROL PLAN
 CHANHASSEN, MINNESOTA

SHEET
9
 OF
40



SEE SHEET 9

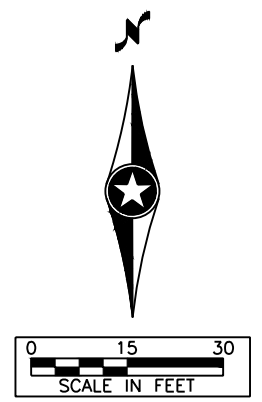
SEE SHEET 11

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- CONSTRUCTION LIMITS
- PROPOSED DRAIN TILE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING DRAIN TILE
- SEDIMENT CONTROL LOG TYPE WOOD CHIP
- INLET PROTECTION
- PROPOSED HEADWALL
- SURFACE FLOW DIRECTION
- PROPOSED RETAINING WALL
- PROPOSED TREE TRENCH
- PROPOSED CLEANOUT

GENERAL NOTES:

- FIELD VERIFY SIZE OF DI AND THE SIZE OF NYOPLAST DROP IN GRATE NEEDED.
- SEE SHEET 9 FOR ADDITIONAL NOTES.



JACKIE ARNTSON | 2/24/2021 4:24:16 PM
 42-05 - (GIS) Users Join from MapInfo (Resolving) (Location) CAD_2018 (Ver)
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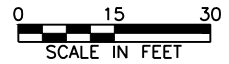
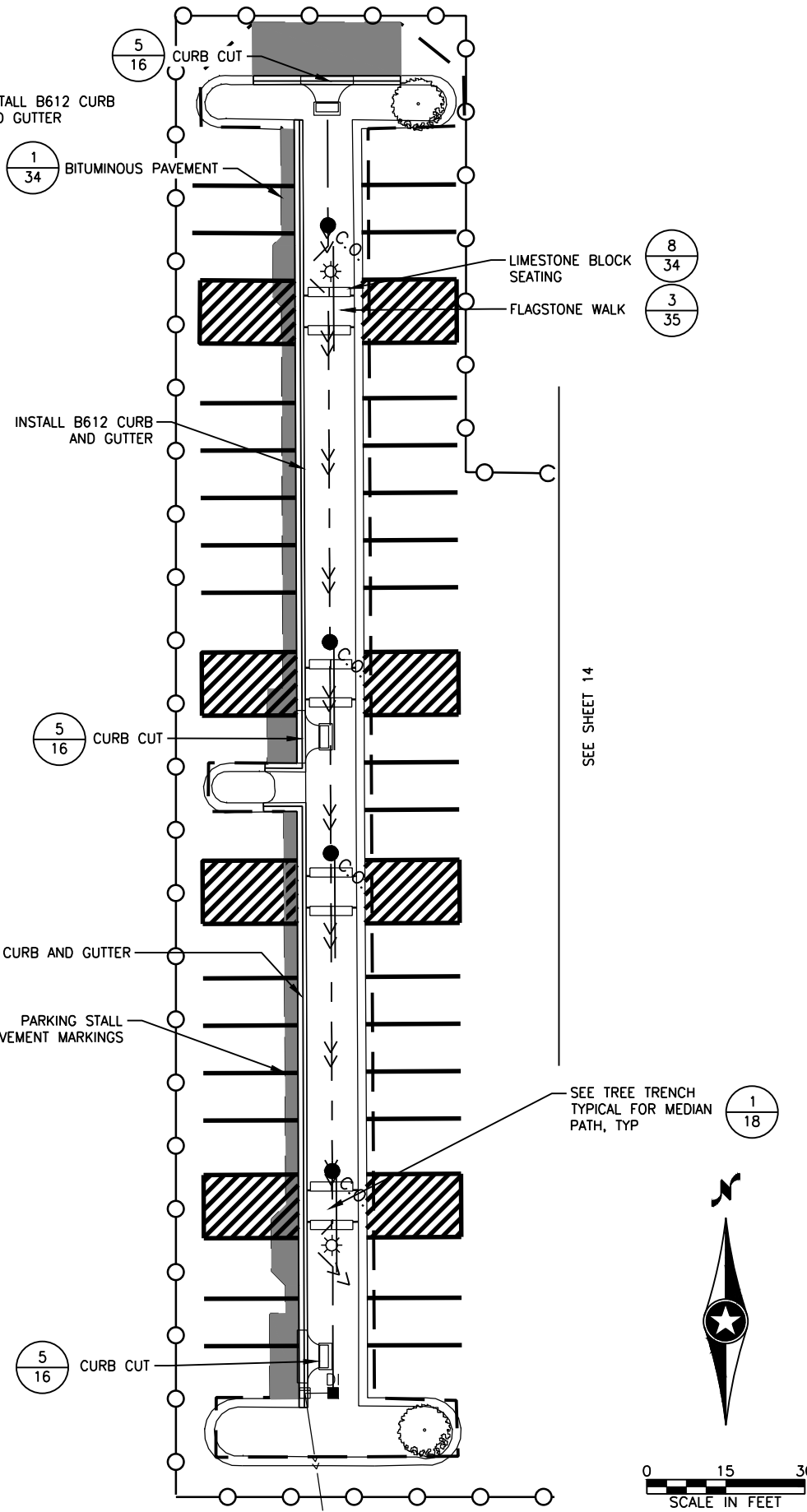
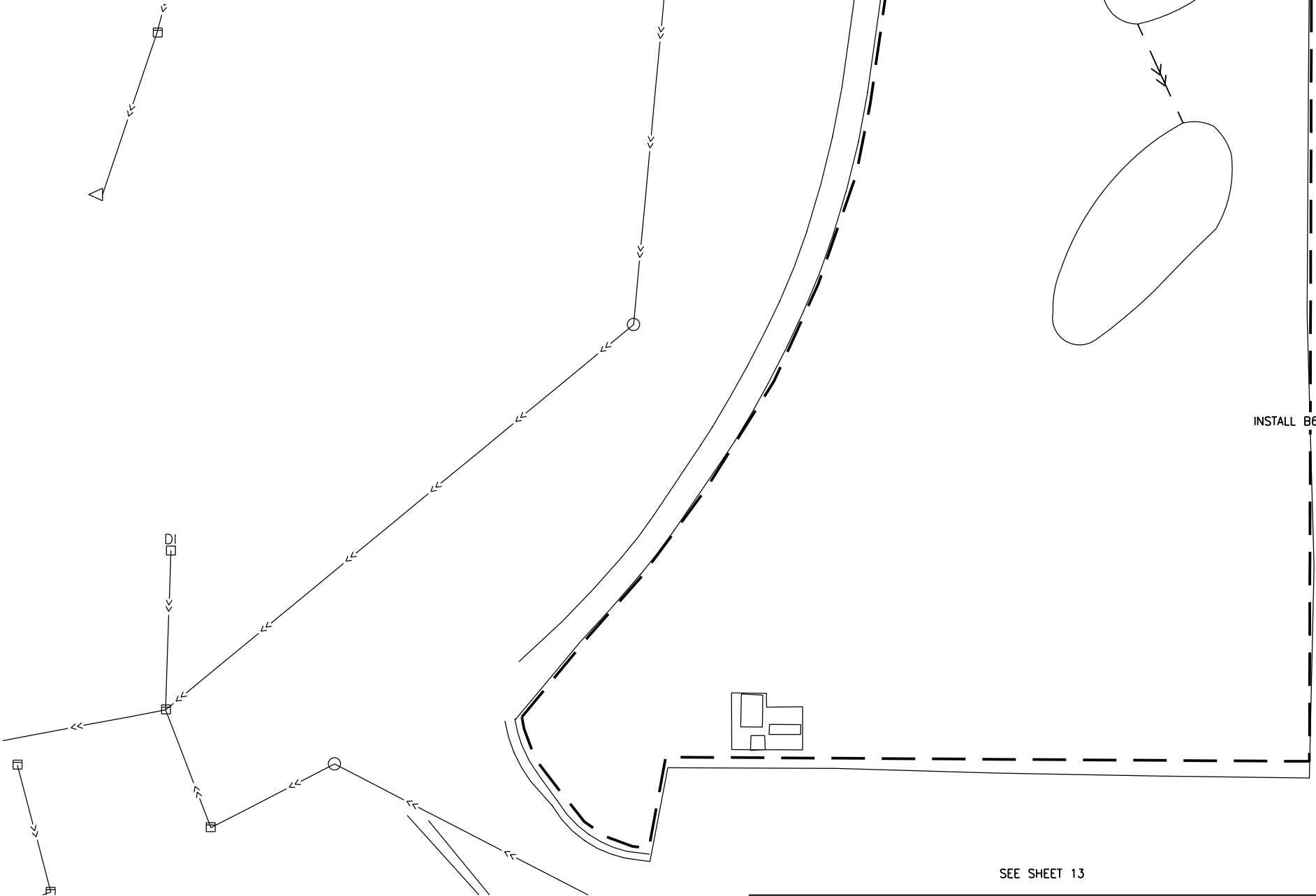
ST HUBERT SCHOOL PROJECT
 DRAINAGE, CONTOUR AND EROSION CONTROL PLAN
 CHANHASSEN, MINNESOTA

SHEET
 10
 OF
 40

LEGEND

-  BITUMINOUS PAVING
-  CONCRETE SURFACE
-  MULCH
-  CONSTRUCTION LIMITS
-  PROPOSED DRAIN TILE
-  PROPOSED STORM SEWER
-  EXISTING STORM SEWER
-  TEMPORARY FENCE

• APPROXIMATE SIDEWALK PLACEMENT LIMITS ARE SHOWN IN THE PLANS, ACTUAL LIMITS TO BE DETERMINED IN THE FIELD.



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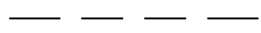
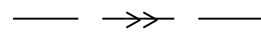


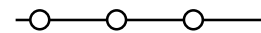
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 CHECKED BY LAG
 COMM. NO. 13385



ST HUBERT SCHOOL PROJECT
 PAVING AND HARDSCAPE PLAN
 CHANHASSEN, MINNESOTA

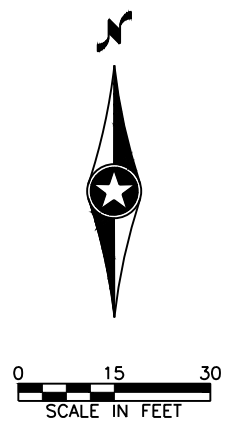
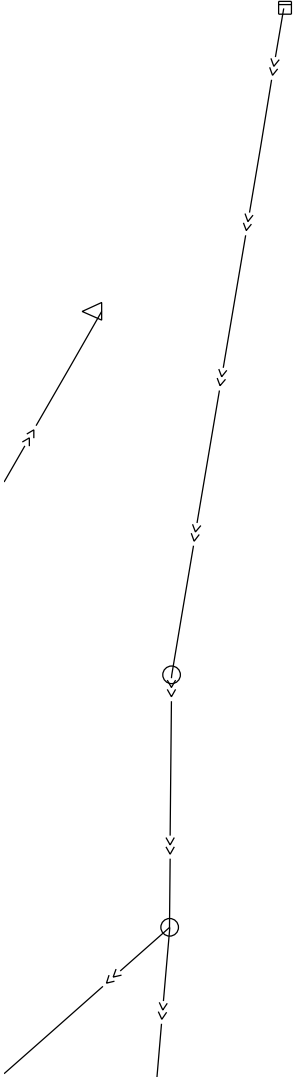
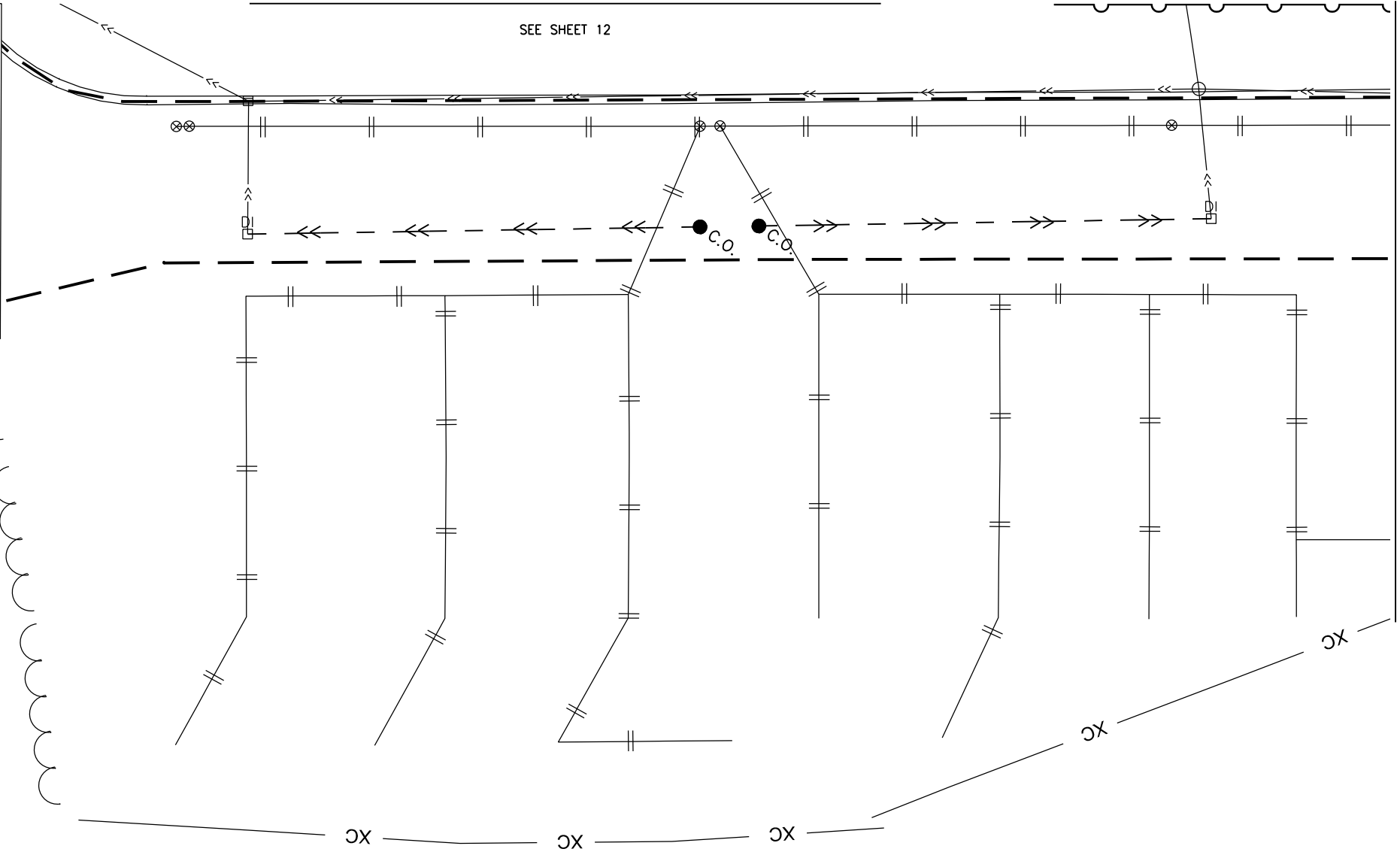
SHEET 12
 OF 40

LEGEND

-  BITUMINOUS PAVING
-  CONCRETE SURFACE
-  MULCH
-  CONSTRUCTION LIMITS
-  PROPOSED DRAIN TILE
-  PROPOSED STORM SEWER
-  EXISTING STORM SEWER
-  TEMPORARY FENCE

NOTE:

- NO PAVING OCCURS ON THIS PORTION OF THE PROJECT.



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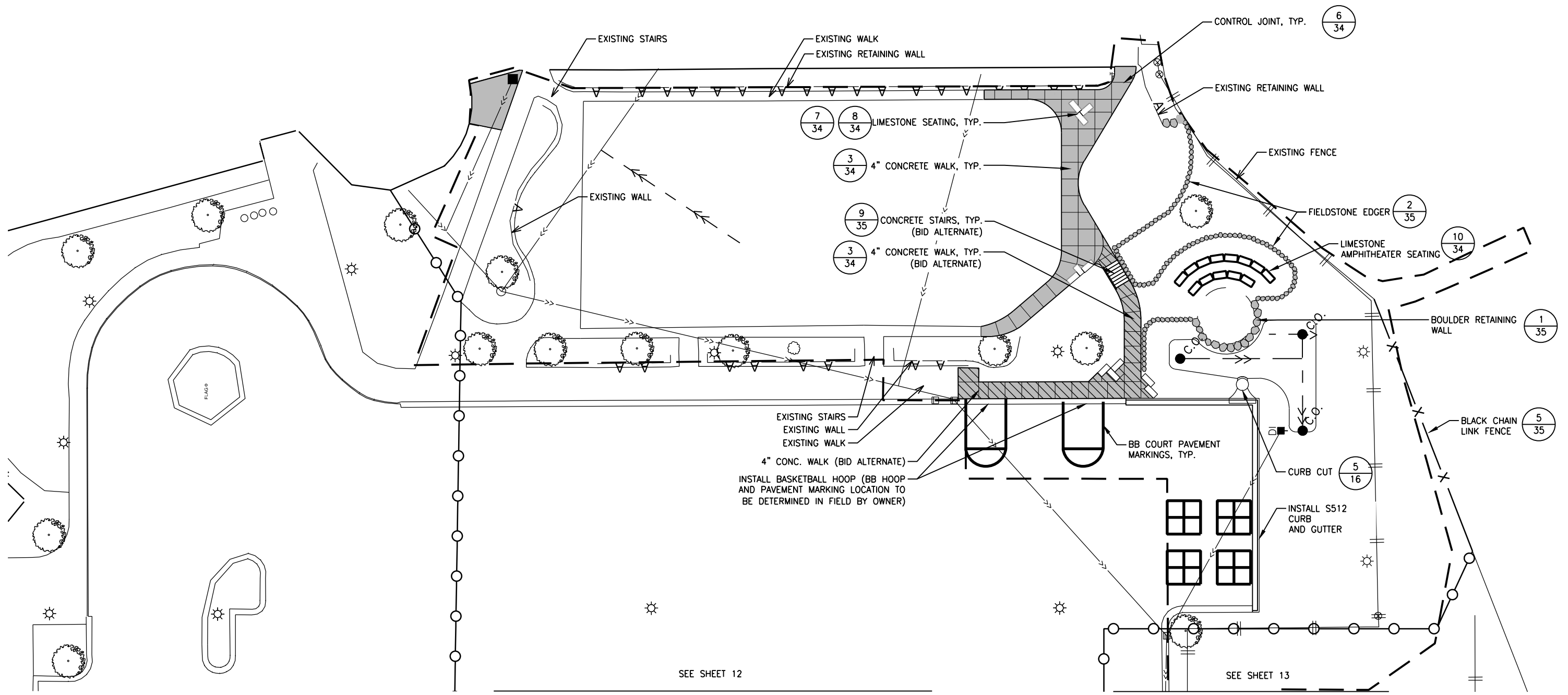
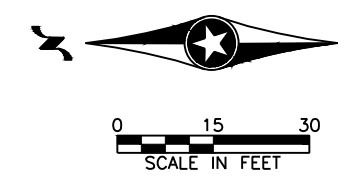


ST HUBERT SCHOOL PROJECT
 PAVING AND HARDSCAPE PLAN
 CHANHASSEN, MINNESOTA

SHEET
13
OF
40

LEGEND

-  BITUMINOUS PAVING
-  CONCRETE SURFACE
-  MULCH
-  CONSTRUCTION LIMITS
-  PROPOSED DRAIN TILE
-  PROPOSED STORM SEWER
-  EXISTING STORM SEWER
-  TEMPORARY FENCE



SEE SHEET 12

SEE SHEET 13

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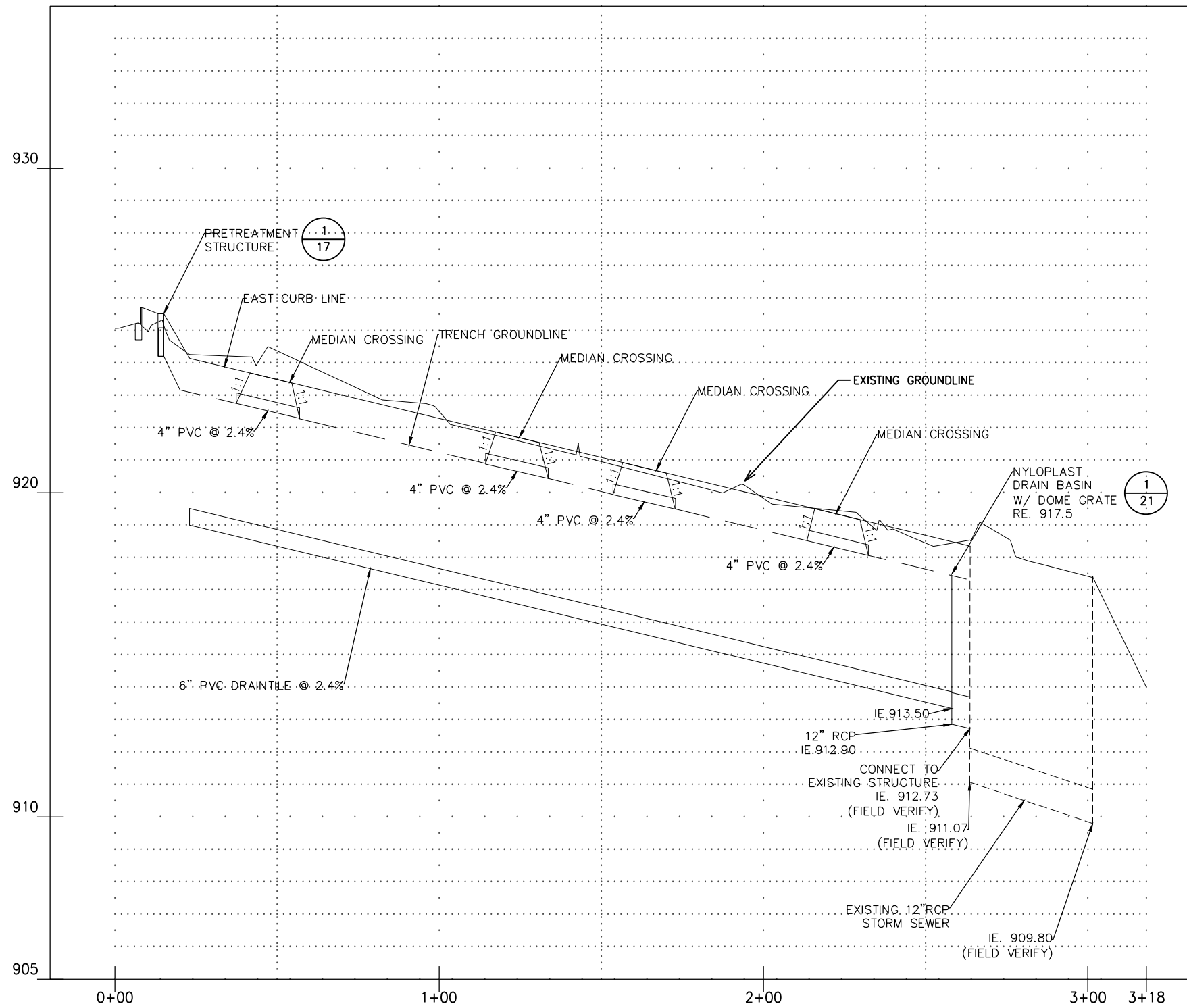
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ST HUBERT SCHOOL PROJECT
 PAVING AND HARDSCAPE PLAN
 CHANHASSEN, MINNESOTA

SHEET
14
OF
40



TREE TRENCH PROFILE

SCALE 1:40

JACKIE ARNTSON | 2/24/2021 8:28:01 AM
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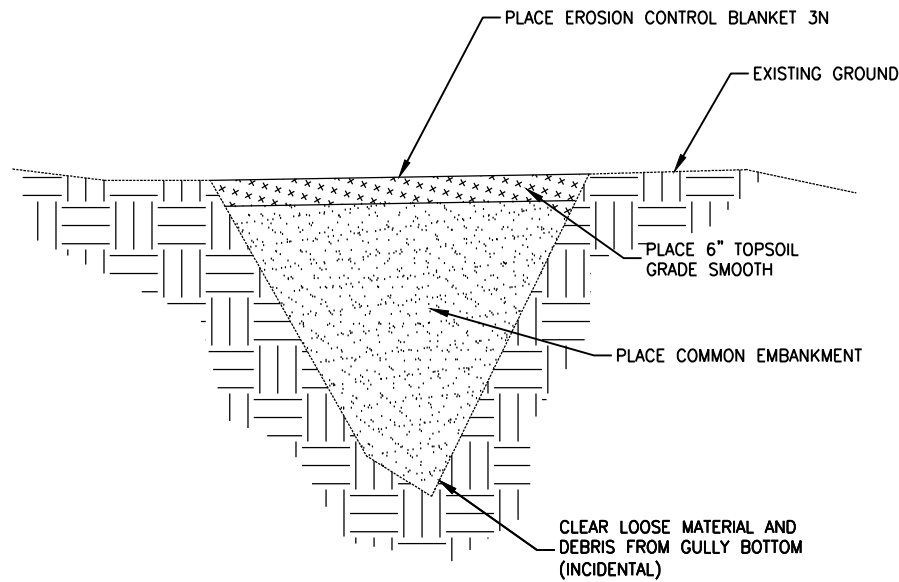
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ST HUBERT SCHOOL PROJECT
 DRAINAGE PROFILE
 CHANHASSEN, MINNESOTA

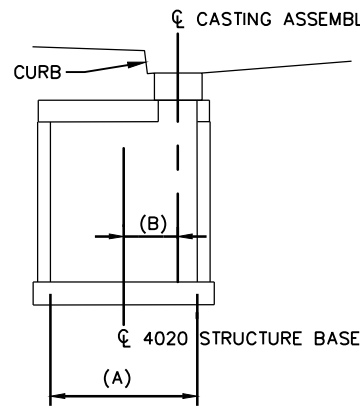
SHEET
15
OF
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1
16

GULLY REPAIR

NOT TO SCALE

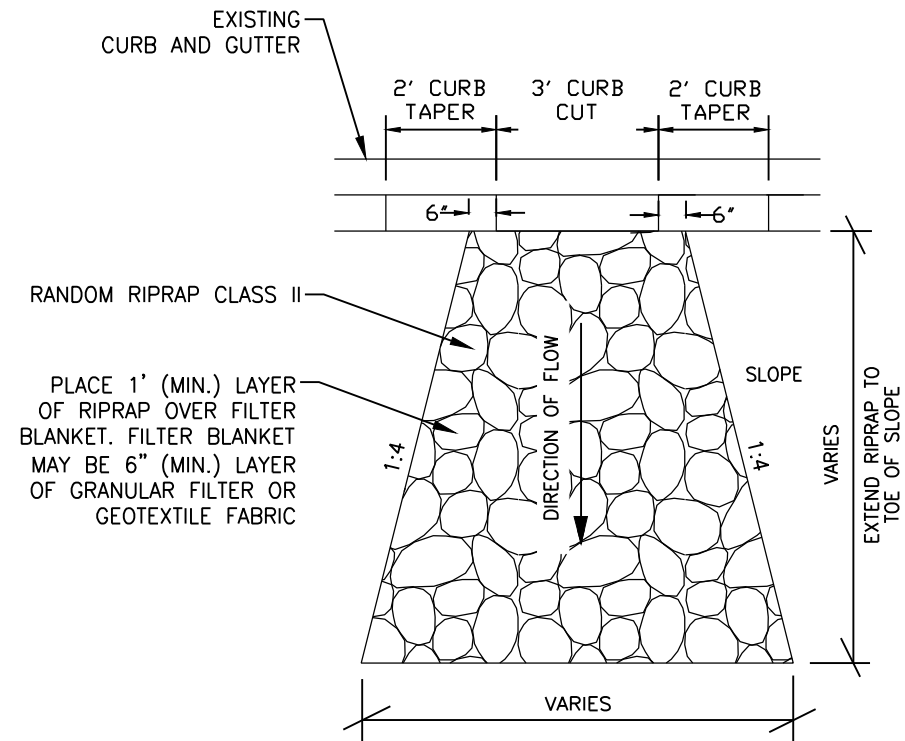


2
16

STAKING DETAIL: DESIGN XX-4020 OR SD-XX STRUCTURE

NOT TO SCALE

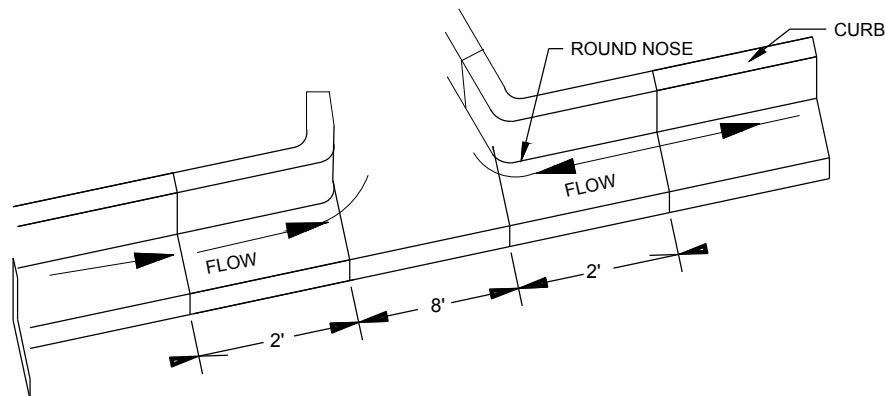
| (A) | (B) | (C) | (D) |
|---------------------|---------------------------------|---------------------------------|--|
| 4020 DIAMETER (IN.) | OFFSET FOR 27-IN. OPENING (FT.) | OFFSET FOR 30-IN. OPENING (FT.) | OFFSET FOR 24-IN. X 36-IN. OPENING (FT.) |
| 48 | 0.79 | 0.67 | 0.25 |
| 54 | 1.08 | 0.96 | 0.54 |
| 60 | 1.29 | 1.17 | 0.83 |
| 66 | 1.58 | 1.48 | 1.13 |
| 72 | 1.79 | 1.67 | 1.42 |
| 78 | 2.08 | 1.96 | 1.71 |
| 84 | 2.29 | 2.17 | 2.00 |
| 90 | 2.58 | 2.46 | 2.29 |
| 96 | 2.87 | 2.75 | 2.58 |
| 102 | 3.16 | 3.04 | 2.88 |
| 108 | 3.29 | 3.17 | 3.08 |
| 120 | 3.79 | 3.67 | 3.67 |



3
16

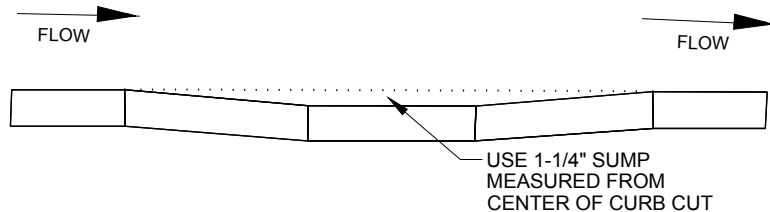
CURB CUT W/RIP-RAP

NOT TO SCALE



TREE TRENCH CURB CUT INLET DETAIL

NOT TO SCALE



DEPRESSION (SUMP) IN FLOW LINE AT SUMPED CURB CUT LOCATION

SEE CONSTRUCTION PLANS FOR LOCATION OF CURB CUTS

4
16

CURB CUT AT BUNKER

NOT TO SCALE

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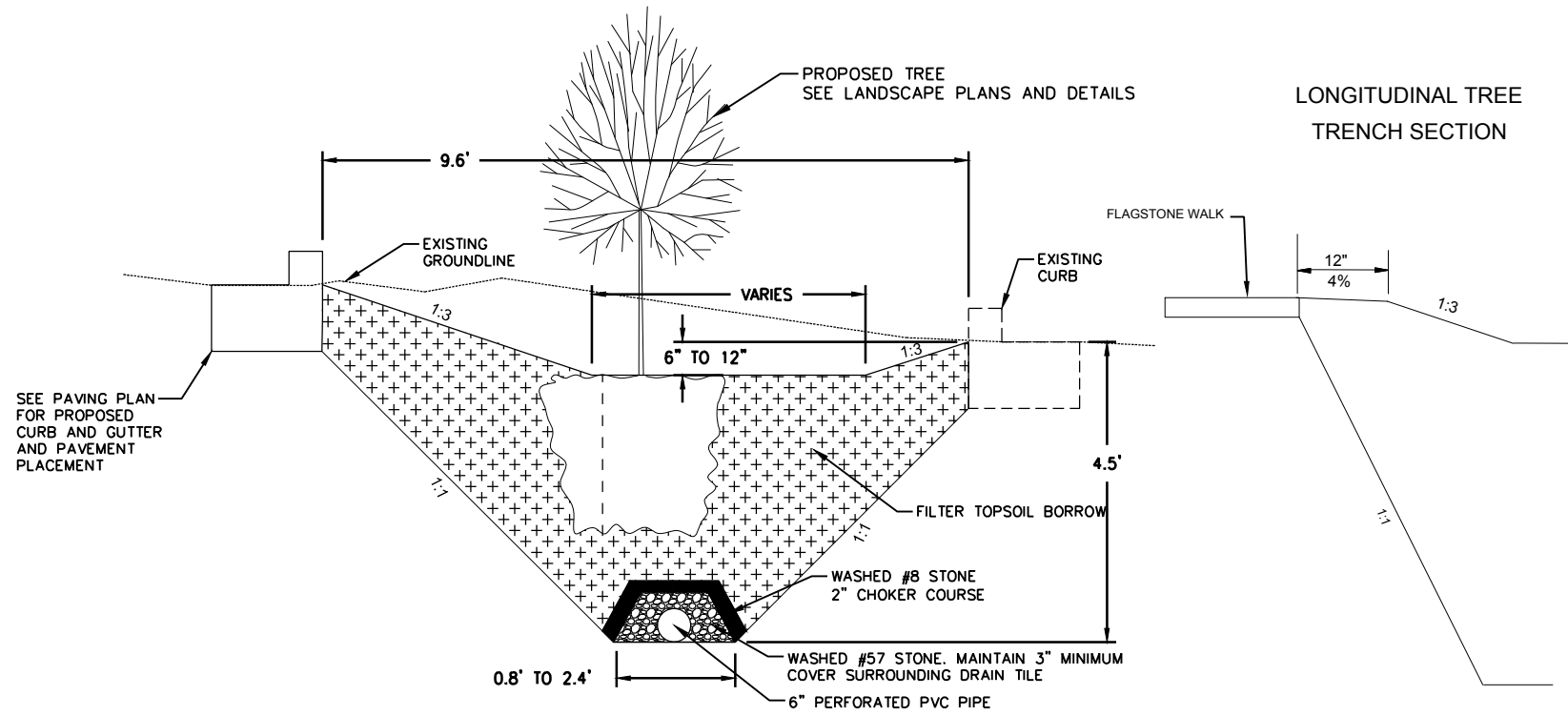


ST HUBERT SCHOOL PROJECT

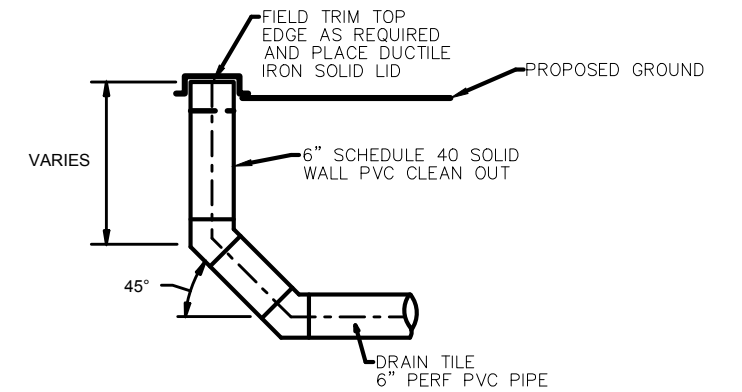
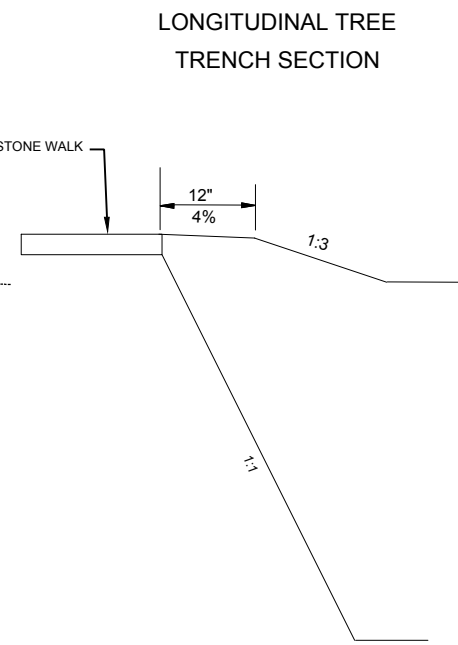
DRAINAGE DETAILS
CHANHASSEN, MINNESOTA

SHEET
16
OF
40

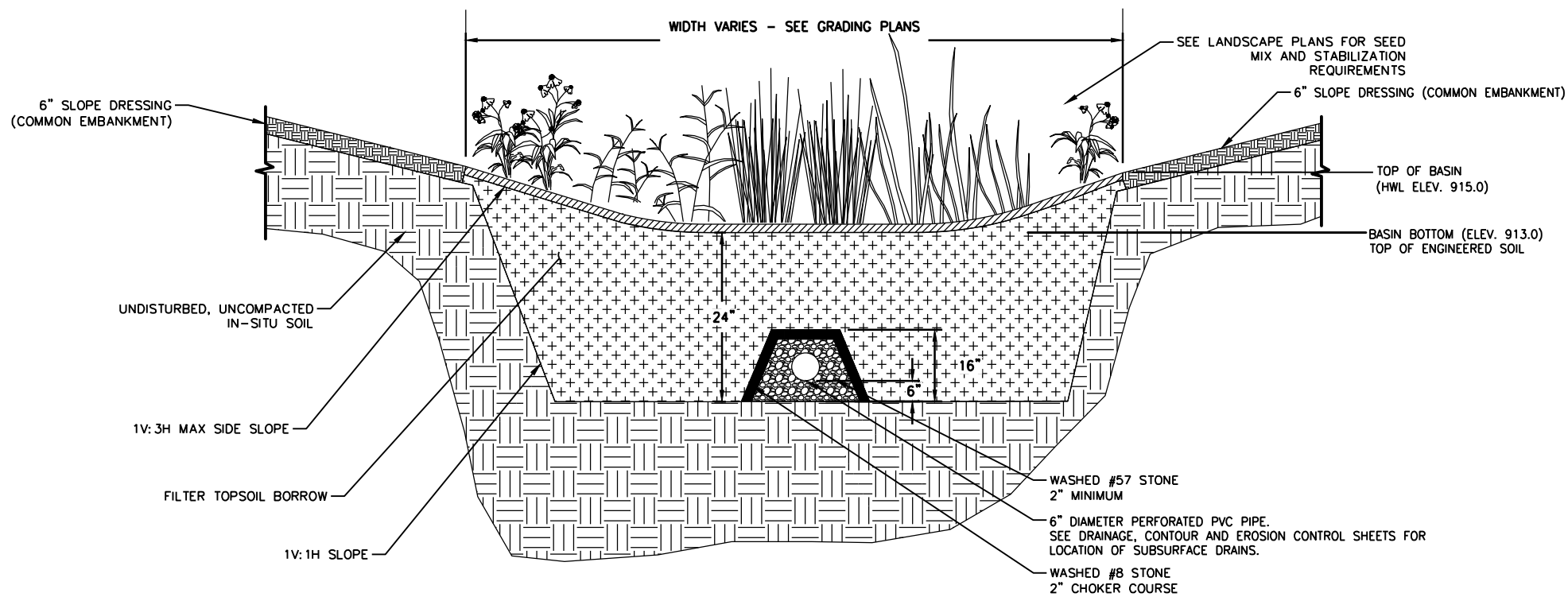
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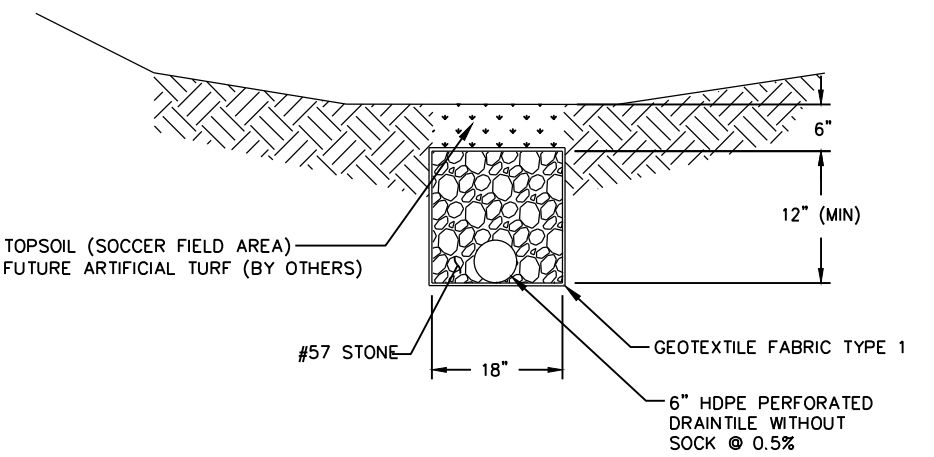
1 TREE TRENCH TYPICAL SECTION
18 NOT TO SCALE



2 DRAINTILE CLEAN OUT
18 NOT TO SCALE



3 FILTRATION BASIN TYPICAL SECTION
18 NOT TO SCALE



4 TRENCH DRAIN DETAIL
18 NOT TO SCALE

JACKIE ARNTSON | 2/24/2021 8:26:51 AM
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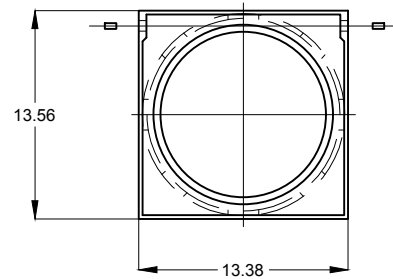
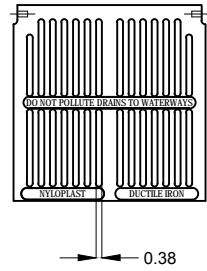
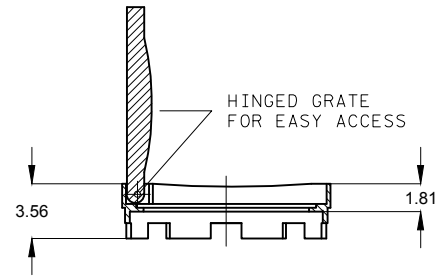


ST HUBERT SCHOOL PROJECT
 DRAINAGE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
18
OF
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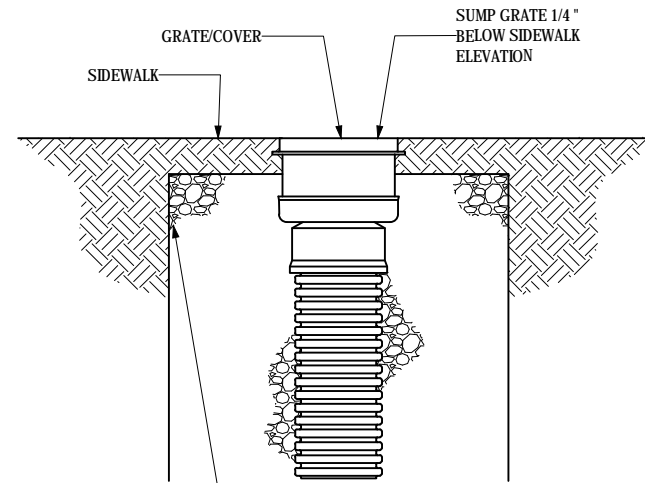
1299CGP

APPROX. DRAIN AREA = 50.60 SQ IN
 APPROX. WEIGHT WITH FRAME = 35.04 LBS



1
19 NYLOPLAST 12" PEDESTRIAN GRATE ASSEMBLY
 NOT TO SCALE

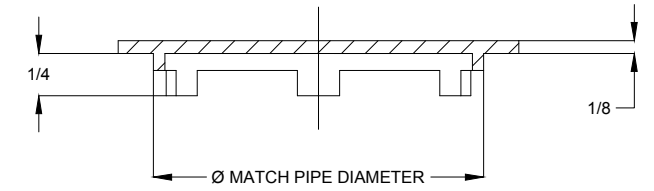
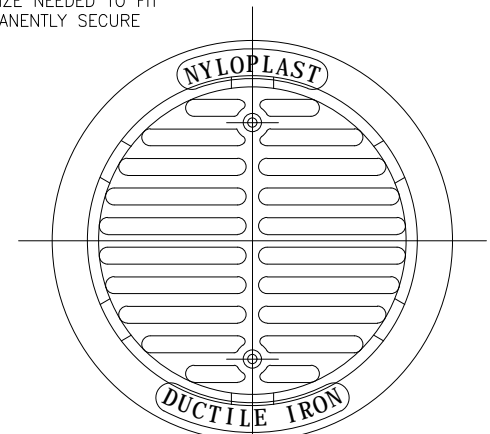
INLINE DRAIN



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

2
19 NYLOPLAST 12" INLINE DRAIN
 NOT TO SCALE

NOTE:
 CONTRACTOR TO VERIFY SIZE NEEDED TO FIT EXISTING INLET AND PERMANENTLY SECURE GRATE TO EXISTING PIPE.



3
19 DROP IN GRATE
 NOT TO SCALE

JACKIE ARNTSON | 2/24/2021 8:26:51 AM
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ST HUBERT SCHOOL PROJECT
 DRAINAGE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
 19
 OF
 40

RODENT SHIELD
DIMENSIONS ARE APPROXIMATE TO ALLOW FOR BEND AND A SNUG FIT IN SLOT IN HEADWALL.

NO. 4E HORIZONTAL BAR
NO. 4E VERTICAL BAR (2 REQUIRED)

| | 4" DIA. PIPE | 6" DIA. PIPE | 8" DIA. PIPE |
|---|--------------|--------------|--------------|
| A | 6-1/2" | 8-1/2" | 10-1/2" |
| B | 1'-0" | 1'-2" | 1'-4" |
| C | 5" | 7" | 9" |
| D | 1'-0" | 1'-2" | 1'-4" |
| E | 8-1/2" | 10-1/2" | 11'-0-1/2" |
| F | 3" | 3" | 3" |
| G | 8-1/2" | 11-1/2" | 11-1/2" |
| H | 11" | 11" | 11" |
| I | 11" | 11" | 11" |
| J | 11" | 11" | 11" |

NOTES:
ALL CONCRETE MATERIALS SHALL BE MIX/DOT MIX DESIGNATION 3M46 AND/OR OTHER MIX AS APPROVED BY THE STATE MATERIALS ENGINEER. HEADWALLS SHALL NOT BE SHIPPED UNTIL CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF 4000 PSI. THE EPOXY BARS SHALL BE SECURELY RETAINED SO THEY ARE NOT DISPLACED DURING CONCRETE PLACEMENT. THE WIRE SHALL BE EPOXY COATED. WELDING WILL NOT BE PERMITTED. THE FABRICATOR SHALL PROVIDE A QUALITY CONTROL PROGRAM APPROVED BY THE MATERIALS ENGINEER.

① THE RODENT SHIELD SHALL BE FABRICATED FROM CARBON STEEL FLATTENED EXPANDED METAL, STYLE 1/2" NO. 4E. IT SHALL BE NOT BIPPED OR DAMAGED AFTER FABRICATION. ACTUAL SCREEN DIMENSIONS SHALL BE SUCH AS WILL SNUG FIT THE PROVIDED SLOT (TAPERED IF NECESSARY), WITH THE SCREEN LIP FITTING FLUSH WITH THE CASTING TOP AND THE BOTTOM FITTING TIGHT TO THE FLOOR LINE.

② THE MANUFACTURER'S NAME AND DATE OF PRODUCTION (MONTH AND YEAR) SHALL BE CLEARLY CAST (NOT INK STAMPED) INTO EITHER THE BOTTOM OF EACH HEADWALL OR NEAR THE BOTTOM OF THE LARGE END. IF A MANUFACTURER HAS MORE THAN ONE PLANT, THEY SHALL BE APPROPRIATELY CODED.

APPROVED AUGUST 20, 2001
STATE DESIGN ENGINEER
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE HEADWALL FOR SUBSURFACE DRAINS
SPECIFICATION REFERENCE 2502
REVISOR 3-22-2013 M.J.E.
STANDARD PLATE NO. 3131C

MANHOLE OR CATCH BASIN FOR USE WITH OR WITHOUT TRAFFIC LOADS

DESIGN DIA. - STANDARD PLATE EXAMPLE: DESIGN 66 - 4020

| C.B. OR M.H. DIA. | COVER WEIGHT OF SECTION | T | K | L | BOTTOM BARS EACH WAY |
|-------------------|-------------------------|-----|-----|-----|----------------------|
| 48" | 1142 LBS. | 6" | 6" | 8" | NO. 5 AT 6" |
| 54" | 1990 LBS. | 8" | 8" | 8" | NO. 5 AT 8" |
| 60" | 2950 LBS. | 8" | 7" | 9" | NO. 5 AT 7" |
| 66" | 3292 LBS. | 8" | 7" | 9" | NO. 5 AT 7" |
| 72" | 3720 LBS. | 8" | 8" | 10" | NO. 5 AT 6" |
| 78" | 4400 LBS. | 8" | 8" | 10" | NO. 5 AT 6" |
| 84" | 5400 LBS. | 8" | 9" | 11" | NO. 5 AT 5" |
| 90" | 1071 LBS. | 8" | 9" | 11" | NO. 5 AT 5" |
| 96" | 1147 LBS. | 8" | 9" | 11" | NO. 5 AT 5" |
| 102" | 1214 LBS. | 8" | 9" | 11" | NO. 5 AT 5" |
| 108" | 1282 LBS. | 12" | 12" | 12" | NO. 5 AT 6" |
| 120" | 15560 LBS. | 12" | 12" | 12" | NO. 5 AT 6" |

NOTES:
ASHTO HS 20 LOADING. MAXIMUM FILL HEIGHT IS FT. THE NO. 4020 SHALL BE PERMANENTLY MARKED ON THE TOP OF THE COVER. EQUIVALENT STEEL AREAS IN WIRE MESH MAY BE USED. REINFORCEMENT PER SPEC. 3303, GRADE 60, ANY STEEL. REINFORCEMENT THAT IS WELDED DURING FABRICATION SHALL MEET THE REQUIREMENTS OF ASTM A706. REFER TO PLANS FOR STEP REQUIREMENTS, HEIGHT, & DIAMETER. SEE SHEET 12 OF 21 FOR INSTALLATION DETAILS. DESIGNER NOTE: WHEN STRUCTURE IS USED AS A CATCH BASIN, GIVE X & Y COORDINATES OF BOTH THE CENTERLINE FOR A, C, F OR G STRUCTURE AND THE CENTERLINE FOR THE 4020 STRUCTURE. DESIGNATION: DESIGN DIA. - STANDARD PLATE EXAMPLE: DESIGN 66 - 4020

① ONLY NECESSARY TO USE BOTTOM LAYER OF STEEL.

APPROVED NOV. 22, 2000
STATE DESIGN ENGINEER
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION
MANHOLE OR CATCH BASIN FOR USE WITH OR WITHOUT TRAFFIC LOADS
SPECIFICATION REFERENCE 2506
REVISOR 3-22-2013 M.J.E.
STANDARD PLATE NO. 4020J
1 OF 2

MANHOLE OR CATCH BASIN FOR USE WITH OR WITHOUT TRAFFIC LOADS

DESIGN DIA. - STANDARD PLATE EXAMPLE: DESIGN 66 - 4020

APPROVED NOV. 22, 2000
STATE DESIGN ENGINEER
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION
MANHOLE OR CATCH BASIN FOR USE WITH OR WITHOUT TRAFFIC LOADS
SPECIFICATION REFERENCE 2506
REVISOR 3-22-2013 M.J.E.
STANDARD PLATE NO. 4020J
2 OF 2

MANHOLE OR CATCH BASIN STEP

DESIGN B AND DESIGN V

APPROVED DEC. 30, 1996
STATE DESIGN ENGINEER
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION
MANHOLE OR CATCH BASIN STEP
SPECIFICATION REFERENCE 2506
STANDARD PLATE NO. 4180J

CONCRETE CURB AND GUTTER DESIGN B AND DESIGN V

DESIGN B

| DESIGN NO. | CONCRETE | CONCRETE | CONCRETE | CONCRETE | CONCRETE |
|------------|------------------------|----------|----------|----------|----------|
| 4 | 17-5/8" 11-7/2" 0.0241 | 25.3 | 1418 | 19.9 | 1424 |
| 6 | 8" 13-1/2" 0.0474 | 21.1 | 1618 | 17.2 | 1624 |
| 8 | 8" 15-1/2" 0.0529 | 18.9 | 1818 | 15.7 | 1824 |
| 9 | 8" 16-3/8" 0.0591 | 17.0 | 1918 | 14.0 | 1924 |
| 10 | 9" 17-5/8" 0.0598 | 17.0 | 2018 | 14.4 | 2024 |

DESIGN V

| DESIGN NO. | CONCRETE | CONCRETE | CONCRETE | CONCRETE | CONCRETE |
|------------|------------------------|----------|----------|----------|----------|
| 4 | 11-3/8" 14-1/2" 0.0396 | 25.3 | 1418 | 19.9 | 1424 |
| 6 | 8" 13-3/8" 0.0491 | 23.5 | 1618 | 18.1 | 1624 |
| 8 | 8" 15-3/8" 0.0451 | 21.9 | 1818 | 17.1 | 1824 |
| 9 | 8" 16-3/8" 0.0472 | 21.2 | 1918 | 17.2 | 1924 |
| 10 | 9" 17-3/8" 0.0487 | 20.5 | 2018 | 16.8 | 2024 |

APPROVED MARCH 11, 1994
ACTING STATE DESIGN ENGINEER
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION
CONCRETE CURB AND GUTTER DESIGN B AND DESIGN V
SPECIFICATION REFERENCE 2531
REVISION DATE 2-28-05
STANDARD PLATE NO. 7100H

CONCRETE CURB AND GUTTER DESIGN D, DESIGN S AND DESIGN R

DESIGN D

| DESIGN NO. | GUTTER WIDTH | CONCRETE |
|------------|--------------|-------------|
| D412 | 12" | 0.0505 18.8 |
| D418 | 18" | 0.0613 16.3 |
| D424 | 24" | 0.0721 13.8 |
| D436 | 36" | 0.0937 10.7 |

DESIGN S

| DESIGN NO. | GUTTER WIDTH | CONCRETE |
|------------|--------------|-------------|
| S502 | 12-1/2" | 0.0541 18.3 |
| S518 | 18-1/2" | 0.0649 15.4 |
| S524 | 24-1/2" | 0.0757 13.2 |
| S530 | 30-1/2" | 0.0865 11.6 |
| S536 | 36-1/2" | 0.0973 10.3 |

DESIGN R

| DESIGN NO. | GUTTER WIDTH | CONCRETE |
|------------|--------------|-------------|
| R412 | 12" | 0.0492 20.3 |
| R418 | 18" | 0.0590 16.7 |
| R424 | 24" | 0.0708 14.1 |
| R436 | 36" | 0.0924 10.8 |

APPROVED AUGUST 28, 2017
STATE DESIGN ENGINEER
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION
CONCRETE CURB AND GUTTER DESIGN D, DESIGN S AND DESIGN R
SPECIFICATION REFERENCE 2531
STANDARD PLATE NO. 7102K

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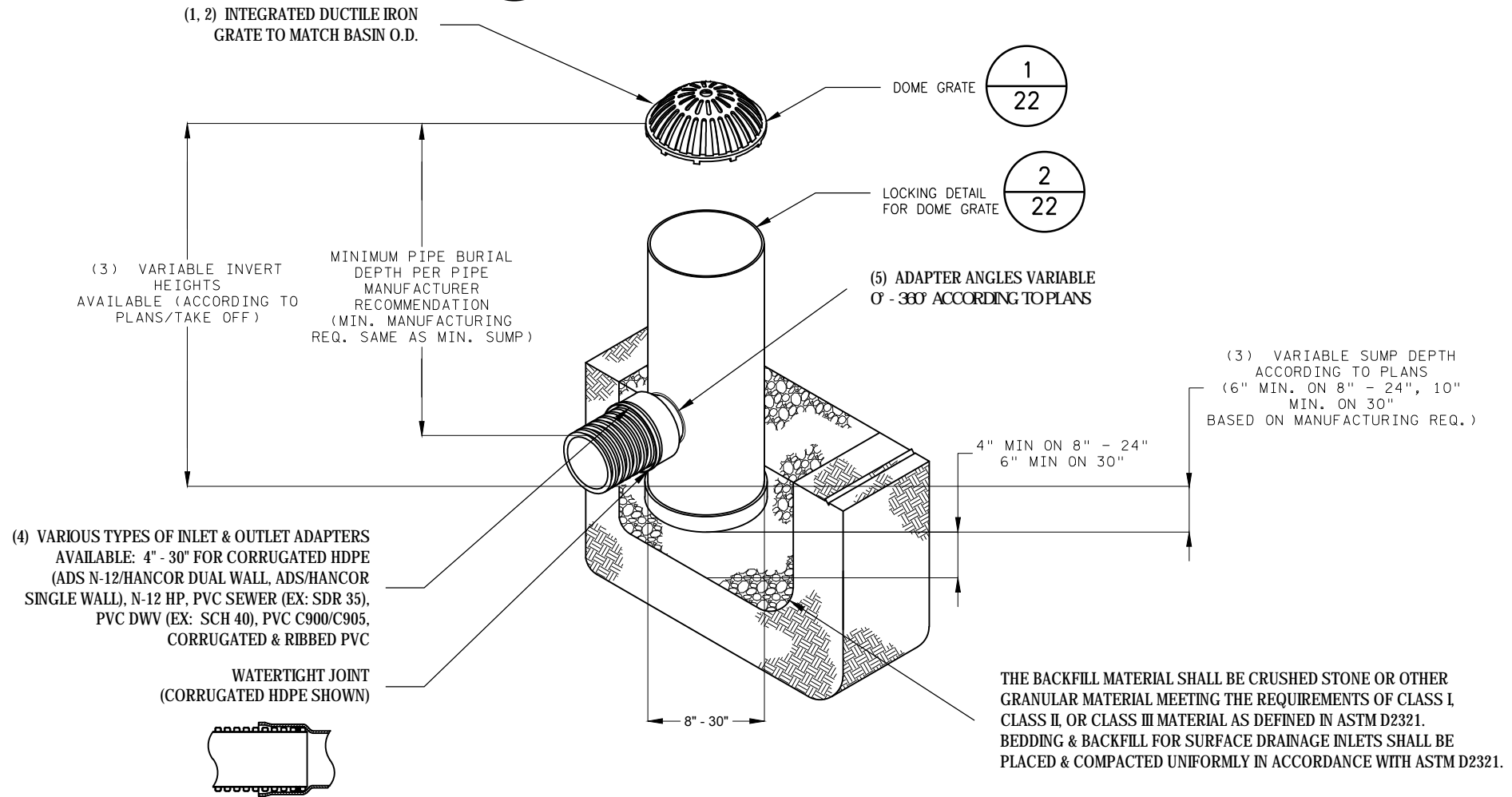
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Print Name: LEAH GIFFORD
Date: / / License # 52263

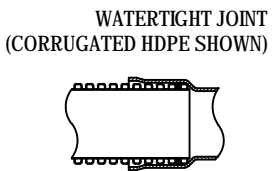
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DESIGNED BY JPA
CHECKED BY LAG
COMM. NO. 13385



1 NYLOPLAST DRAIN BASIN WITH DOME GRATE
 21 NOT TO SCALE



(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

- 1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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|------------|----------|-------------------------|
| DRAWN BY | EBC | MATERIAL |
| DATE | 03-25-10 | |
| REVISED BY | NMH | PROJECT NO./NAME |
| DATE | 03-11-16 | |
| DWG SIZE | A | SCALE 1:40 SHEET 1 OF 1 |

Nyloplast

3130 VERONA AVE
 BUFORD, GA 30518
 PHN (770) 932-2443
 FAX (770) 932-2490
 www.nyloplast-us.com

TITLE
 DRAIN BASIN WITH DOME GRATE
 QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-397 REV D

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 Print Name: LEAH GIFFORD
 Date / / License # 52263

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



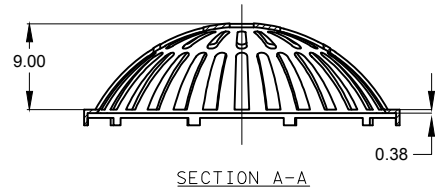
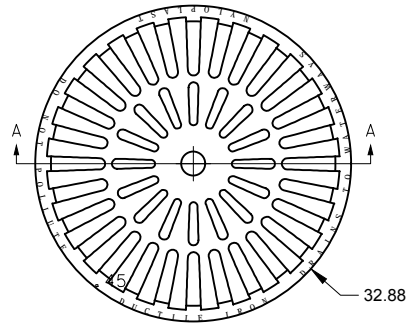
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DRAINAGE DETAILS
 CHANHASSEN, MINNESOTA

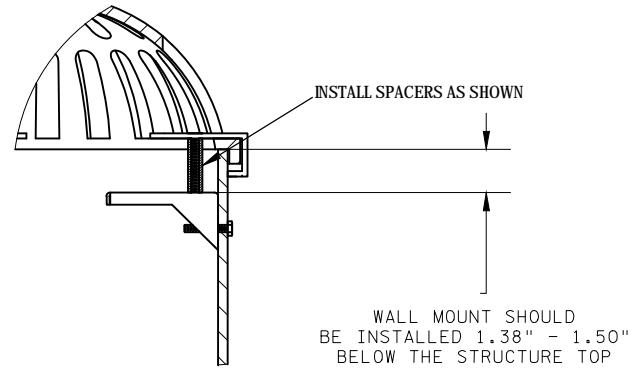
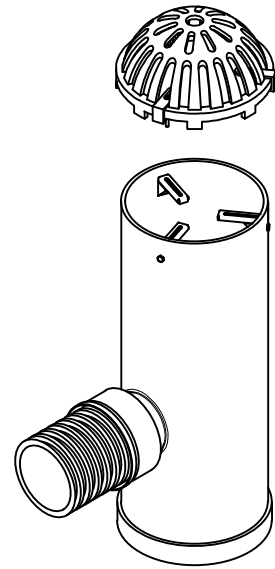
SHEET
 21
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 40

3099CGD

APPROX. DRAIN AREA = 409.94 SQ IN
 APPROX. WEIGHT WITH FRAME = 93.00 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
 ACTUAL DIMENSIONS MAY VARY
 DIMENSIONS ARE IN INCHES
 QUALITY: MATERIALS SHALL CONFORM
 TO ASTM A536 GRADE 70-50-05
 PAINT: CASTINGS ARE FURNISHED
 WITH A BLACK PAINT
 LOCKING DEVICE AVAILABLE UPON
 REQUEST



CUTOUT DETAIL

STAINLESS STEEL ADJUSTABLE LOCKING MECHANISM AVAILABLE
 FOR 12" - 30" DOME GRATES (PART # 1230DOMELOCK).

1
 22 NYLOPLAST DOME GRATE
 NOT TO SCALE

2
 22 LOCKING DETAIL FOR NYLOPLAST DOME GRATE
 NOT TO SCALE

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 Date / / License # 52263

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 COMM. NO. 13385



ST HUBERT SCHOOL PROJECT
 DRAINAGE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
 22
 OF
 40

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 1 OF 4)

PROJECT DESCRIPTION/LOCATION AND SCOPE

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

SPECIAL AND IMPAIRED WATERS

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

ENVIRONMENTALLY SENSITIVE AREAS

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

LONG TERM MAINTENANCE AND OPERATION

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

SWPPP DEVELOPMENT AND MAINTENANCE

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

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

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

THE SWPPP SHALL BE AMENDED WHEN:

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

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

SITE PLANS

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

ENVIRONMENTAL REVIEW

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

DRINKING WATER SOURCE MANAGEMENT AREA (DWSMA), EMERGENCY RESPONSE AREA (ERA) AND KARST REGIONS
THE PROJECT IS NOT LOCATED IN A DWSMA, ERA OR KARST AREA.

SOIL TYPES

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

LAND FEATURE CHANGES

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

PROJECT CONTACTS

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

| ORGANIZATION | CONTACT NAME | PHONE |
|--|---------------|--------------|
| CITY OF CHANHASSEN | MATT UNMACHT | 952-227-1168 |
| MINNESOTA DEPARTMENT OF NATURAL RESOURCES | PETER LEETE | 651-366-3634 |
| MINNESOTA POLLUTION CONTROL AGENCY | AMY DALBECQ | 651-234-7521 |
| RILEY PURGATORY BLUFF CREEK WATERSHED DIST | CLAIRE BLESER | 952-607-6512 |
| SRF WATER RESOURCES | LEAH GIFFORD | 763-475-0010 |

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

LOCATION OF SWPPP REQUIREMENTS

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

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

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

SITE MAPS AND DESIGN CALCULATIONS

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

JACKIE ARNTSON | 2/24/2021 12:00:26 PM
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Date: / / License # 52263

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

SHEET
23
OF
40

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 2 OF 4)

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION STORMWATER PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA (FORM IS AVAILABLE FROM MPCA WEBSITE). THE CONTRACTOR SHALL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP SHALL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.
2. THE CONTRACTOR SHALL PREPARE A WRITTEN, NOT ORAL, WEEKLY SCHEDULE OF PROPOSED EROSION CONTROL ACTIVITIES FOR THE PROJECT ENGINEER'S APPROVAL AS PER MNDOT SPEC. 1717.2.
3. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
4. THE CONTRACTOR SHALL PLACE STABILIZED CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES AND IN COMPLIANCE WITH THE NPDES PERMIT. STABILIZED CONSTRUCTION EXITS SHALL BE SUFFICIENTLY SIZED AND MAINTAINED TO PREVENT TRACK OUT. STABILIZED CONSTRUCTION EXITS SHALL BE INCIDENTAL.
5. ALL TOPSOIL IN DISTURBED AREAS SHALL BE REMOVED AND STOCKPILED FOR LATER PLACEMENT. AVOID COMPACTION AS MUCH AS IS FEASIBLE IN ALL AREAS WHERE COMPACTION IS NOT REQUIRED FOR CONSTRUCTION. COMPACTION SHALL BE AVOIDED IN ALL AREAS DESIGNATED FOR INFILTRATION.
6. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION PRIOR TO PROCEEDING. PRESERVE ALL BUFFERS (IF ANY) SHOWN ON THE PLANS.
7. DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS AND ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER POSSIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION AND NUISANCE CONDITIONS.
8. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
9. TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED. THEREFORE, IT IS POSSIBLE THAT A PERMIT FOR THE TEMPORARY APPROPRIATION OF WATERS OF THE STATE FROM MNDNR SHALL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS PERMIT IF REQUIRED (FORMS ARE AVAILABLE FROM THE MNDNR WEBSITE). ALL TEMPORARY DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO THE RECEIVING WATER. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SITE MANAGEMENT PLANS TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK ACCORDING TO SPEC 1717.2. TEMPORARY DEWATERING SHALL BE INCIDENTAL.
10. BASIN DRAINING ACTIVITIES OF TURBID OR SEDIMENT LADEN WATER SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS WHENEVER POSSIBLE. IN THE EVENT THAT IT IS NOT POSSIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN THE WATER SHALL BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS.
11. IT IS NOT ANTICIPATED THAT POLYMERS, FLOCCULANTS OR OTHER SEDIMENTATION TREATMENT CHEMICALS SHALL BE USED. HOWEVER, IF THE USE OF SUCH CHEMICALS BECOMES NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS, IT SHALL BE IN ACCORDANCE WITH THE NPDES PERMIT.

POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS REGARDING POLLUTION PREVENTION MANAGEMENT DURING CONSTRUCTION, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING THE FOLLOWING (ITEMS LISTED ARE INCIDENTAL):
 - A. WASHOUT AREAS FOR CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS FOR USE BY ALL SUBCONTRACTORS AND MATERIAL TESTING PERSONNEL. LOCATION OF WASHOUT AREAS SHALL BE IDENTIFIED BY SIGNAGE AND SHALL BE AT LEAST 200 FT FROM SITE MANAGEMENT PLAN REQUIREMENT AREAS (IF APPLICABLE) OR ENVIRONMENTALLY SENSITIVE AREAS, AND UTILIZE A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER THAT PREVENTS RUNOFF ONTO ADJACENT SOILS. AN ENGINEERED COLLECTION SYSTEM CAN ALSO BE USED IF IT IS APPROVED BY THE
 - B. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR A CHEMICAL STORAGE AREA AND SHALL DESIGNATE AN AREA FOR FUELING AND MINOR MAINTENANCE OF CONSTRUCTION VEHICLES (INCLUDING WASHING) WITH MEANS TO CAPTURE ANY FUEL SPILLS. RUNOFF SHALL BE CONTAINED IN A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL AND ALL WASTE GENERATED SHALL BE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.
 - C. SOLID WASTE COLLECTION AND REMOVAL
 - D. SECONDARY CONTAINMENT FOR STORAGE OF HAZARDOUS MATERIALS
 - E. SECURED HAZARDOUS WASTE STORAGE CONTAINERS
 - F. CHEMICAL SPILL KITS (SHALL BE PROVIDED AT EACH LOCATION WHERE CHEMICALS ARE USED OR STORED AND ANY LOCATION WHERE VEHICLES ARE FUELED OR MAINTAINED).
 - G. PORTABLE RESTROOM FACILITIES THAT ARE ANCHORED TO PREVENT TIPPING
2. CHEMICALS SHALL BE KEPT IN A SECURE STORAGE AREA WITH RESTRICTED ACCESS IN SEALED CONTAINERS WHEN NOT IN USE. RETURN ALL CHEMICALS TO THE DESIGNATED STORAGE AREA BY THE END OF THE DAY UNLESS INFEASIBLE. CHEMICAL STORAGE CONTAINERS SHALL HAVE SECONDARY CONTAINMENT WHEN BEING USED OR STORED ON THE PROJECT SITE, AND PRODUCTS OR CHEMICALS THAT MAY LEACH POLLUTANTS SHALL BE UNDER COVER (PLASTIC SHEETING OR TEMPORARY ROOF). CHEMICAL SPILLS OF ANY KIND (OIL, FUEL, FERTILIZER, ETC.) SHALL BE CLEANED UP AND REMOVED FROM THE SITE IMMEDIATELY. THE CONTRACTOR SHALL HAVE A SPILL KIT ON SITE AT ALL TIMES.

POLLUTION PREVENTION NOTES (CONT.)

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AND FOLLOWING A WRITTEN DISPOSAL PLAN FOR ALL HAZARDOUS WASTE MATERIALS. THE PLAN SHALL INCLUDE HOW THE MATERIAL SHALL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO WORK ON SITE. LEAKS, SPILLS, OR OTHER RELEASES SHALL BE RESPONDED TO IN ACCORDANCE WITH MPCA SPILL CONTAINMENT AND REMEDIAL ACTION PROCEDURES.
4. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS, AND ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
5. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, SAW CUT SLURRY, PLANING WASTE AND OTHER CONCRETE WASTES FROM LEAVING PUBLIC RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS OR ENTERING STORMWATER CONVEYANCE SYSTEM INCLUDING INLETS AND CURB FLOW LINES. ONSITE RELEASE OF CONCRETE SLURRY IS PERMISSIBLE IF MINNESOTA POLLUTION CONTROL GUIDANCE FOR ROAD CONSTRUCTION CONCRETE SLURRY AND THE REQUIREMENTS OF THE SPECIAL PROVISIONS ARE FOLLOWED.

EROSION CONTROL SUPERVISOR, INSPECTIONS AND MAINTENANCE NOTES

1. IN ACCORDANCE WITH SPEC. 2573.3 A1, THE CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs. PROVIDE PROOF OF CERTIFICATION (UNIVERSITY OF MINNESOTA - CONSTRUCTION SITE MANAGEMENT) AT THE PRECONSTRUCTION MEETING. WORK SHALL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED. THE EROSION CONTROL SUPERVISOR IS INCIDENTAL.
2. THE EROSION CONTROL SUPERVISOR SHALL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.
3. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR COMPLYING WITH ALL THE INSPECTION AND MAINTENANCE REQUIREMENTS STATED IN THE NPDES PERMIT. INSPECTIONS OF THE ENTIRE CONSTRUCTION SITE SHALL OCCUR A MINIMUM OF ONCE EVERY SEVEN DAYS (3 DAYS FOR PROHIBITED WATERS) DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS (IN NO CASE SHALL THE TIME BETWEEN INSPECTIONS EXCEED 7 DAYS; 3 DAYS FOR PROHIBITED WATERS). RAINFALL AMOUNTS SHALL BE OBTAINED USING A PROPERLY MAINTAINED RAIN GAUGE ONSITE OR BY A WEATHER STATION THAT IS WITHIN ONE MILE. THE EROSION CONTROL SUPERVISOR SHALL THOROUGHLY INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO ENSURE INTEGRITY AND EFFECTIVENESS OF EACH BMP.
4. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION SHALL BE RECORDED IN WRITING WITHIN 24 HOURS AND THESE RECORDS SHALL BE RETAINED WITH THE SWPPP. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND SWPPP DESIGNER IN A FORMAT APPROVED BY THE ENGINEER. INSPECTION RECORDS SHALL INCLUDE:
 - A. DATE AND TIME OF INSPECTIONS;
 - B. NAME OF PERSONS CONDUCTING INSPECTIONS;
 - C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
 - D. CORRECTIVE ACTIONS TAKEN INCLUDING DATES, TIMES, AND THE PARTY COMPLETING MAINTENANCE ACTIVITIES;
 - E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS;
 - F. LOCATION, DESCRIPTION AND PHOTO OF ANY DISCHARGES OFF THE PROJECT SITE.
 - G. DOCUMENTS AND CHANGES MADE TO THE SWPPP.
5. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS (INSPECTIONS MAY BE REDUCED UNDER CERTAIN CONDITIONS AS COVER IS ESTABLISHED AND CONDITIONS CHANGE AS DESCRIBED IN THE NPDES PERMIT):
 - A. SILT FENCE SHALL BE REPAIRED, REPLACED OR SUPPLEMENTED WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE SILT FENCE.
 - B. INLET PROTECTION DEVICES SHOULD BE REPAIRED WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
 - C. TEMPORARY SEDIMENT BASINS, IF REQUIRED, SHALL HAVE THE SEDIMENT REMOVED ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME.
 - D. REMOVE ANY SEDIMENT DEPOSITED IN SURFACE WATERS. SEDIMENT SHALL BE REMOVED AND ANY AREA DISTURBED BY THE REMOVAL RESTABILIZED WITHIN 7 DAYS OF DISCOVERY. A SITE MANAGEMENT PLAN IS REQUIRED FOR WORK IN ANY SURFACE WATER AND APPROPRIATE AUTHORITIES SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
 - E. TRACKED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OF TRACKING ONTO PAVED SURFACES.
 - F. ALL NONFUNCTIONAL BMPs SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY (UNLESS NOTED OTHERWISE ABOVE).
 - G. REINSTALL AS QUICKLY AS POSSIBLE ANY BMP REMOVED TO ACCOMMODATE SHORT TERM ACTIVITIES.
 - H. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MPCA IN ACCORDANCE WITH THE NPDES PERMIT. SEDIMENT REMOVAL AND MAINTENANCE OF BMPs IS INCIDENTAL.
6. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS A TEMPORARY SEDIMENT BASIN OR SEDIMENT TRAP TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

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

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

SHEET
 24
 OF
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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (SHEET 3 OF 4)

STABILIZATION AND SEDIMENT CONTROL NOTES

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

STABILIZATION AND SEDIMENT CONTROL NOTES (CONT.)

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

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 Print Name: LEAH GIFFORD
 Date --/--/ -- License # 52263

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

SHEET
25
OF
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GENERAL NOTES:

1. STATE LAW: 48 HOURS BEFORE EXCAVATION BEGINS CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 FOR FIELD LOCATION OF UNDERGROUND UTILITIES.

LANDSCAPE PLANTING NOTES:

1. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. SEE EROSION CONTROL PLANS FOR LOCATION OF EROSION CONTROL BLANKET.
3. QUANTITIES IN THE PLANT SCHEDULE ARE PROVIDED FOR CONTRACTOR CONVENIENCE. THE PLAN SHALL GOVERN IF DISCREPANCIES ARE IDENTIFIED.
4. CONTRACTOR SHALL STAKE ALL SEEDING AND PLANTING LOCATIONS FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PREPARATION OF PLANTING BEDS OR PLANT INSTALLATION. SEE SPECIFICATIONS FOR ACCEPTABLE PLANTING DATES.
5. PROJECT SITE MUST BE KEPT CLEAN AND FREE OF DEBRIS.
6. CONTRACTOR SHALL REPAIR ANY EXISTING TURF AREAS DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLANT SCHEDULE

| SYMBOL | QUANTITY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | ROOT |
|---|----------|--------------------------------------|------------------------|------------------|----------|------|
| DECIDUOUS TREE (7) | | | | | | |
| CO | 3 | <i>Celtis occidentalis</i> | Common Hackberry | As Shown on Plan | 2" CAL. | B&B |
| TA | 4 | <i>Tilia americana</i> | American Linden | As Shown on Plan | 2" CAL. | B&B |
| BID ALTERNATE DECIDUOUS TREES (24) | | | | | | |
| AR | 6 | <i>Acer rubrum</i> | Red Maple | As Shown on Plan | 2.5" Cal | B&B |
| PT | 8 | <i>Populus tremuloides</i> | Quaking Aspen | As Shown on Plan | 1" CAL. | Cont |
| QB | 10 | <i>Quercus bicolor</i> | White Oak | As Shown on Plan | 2" CAL. | Cont |
| BID ALTERNATE ORNAMENTAL TREES (5) | | | | | | |
| PA | 5 | <i>Prunus americana</i> | American Plum | 20' O.C. | 8' HT. | B&B |
| SHRUBS (34) | | | | | | |
| CS | 31 | <i>Cornus sericea</i> | Red Twig Dogwood | 5' O.C. | #2 | CONT |
| CR | 3 | <i>Cornus racemosa</i> | Gray Dogwood | 5' O.C. | #2 | CONT |
| PO | 16 | <i>Physocarpus opulifolius</i> | Common Ninebark | As Shown on Plan | #2 | CONT |
| PERENNIALS (767) | | | | | | |
| AI | 47 | <i>Asclepias incarnata</i> | Marsh Milkweed | 2' O.C. | #1 | CONT |
| AT | 44 | <i>Asclepias tuberosa</i> | Butterfly Milkweed | 2' O.C. | #1 | CONT |
| BA | 10 | <i>Baptisia Australis</i> | Blue False Indigo | 4' O.C. | #2 | CONT |
| EP | 155 | <i>Echniacea purpurea</i> | Purple Coneflower | 2' O.C. | #1 | CONT |
| GT | 36 | <i>Geum triflorum</i> | Prairie Smoke | 1.5' O.C. | #1 | CONT |
| IV | 193 | <i>Iris versicolor</i> | Blue Flag Iris | 2' O.C. | #1 | CONT |
| LA | 7 | <i>Liatris aspera</i> | Tall Blazingstar | 4' O.C. | #1 | CONT |
| LS | 22 | <i>Liatris spicata</i> | Dense Blazingstar | 3' O.C. | #1 | CONT |
| MF | 39 | <i>Monarda fistulosa</i> | Wild Bergamot | 3' O.C. | #1 | CONT |
| RP | 66 | <i>Ratibida pinnata</i> | Gray Headed Coneflower | 2' O.C. | #1 | CONT |
| SN | 68 | <i>Symphyotrichum novae-angliae</i> | New England Aster | 3' O.C. | #1 | CONT |
| SL | 80 | <i>Symphyotrichum laeve</i> | Smooth Blue Aster | 3' O.C. | #1 | CONT |
| GRASSES/SEDGES (258) | | | | | | |
| CB | 163 | <i>Carex bebbii</i> | Bebbs Sedge | 2' O.C. | 4" | CONT |
| PV | 32 | <i>Panicum virgatum 'Shenandoah'</i> | Shenandoah Switchgrass | 3' O.C. | 4" | CONT |
| SS | 63 | <i>Schizachyrium scoparium</i> | Little Bluestem | 2' O.C. | 4" | CONT |

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 Print Name: SEAN JERGENS
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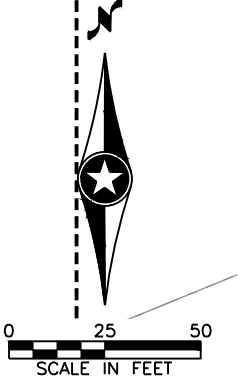
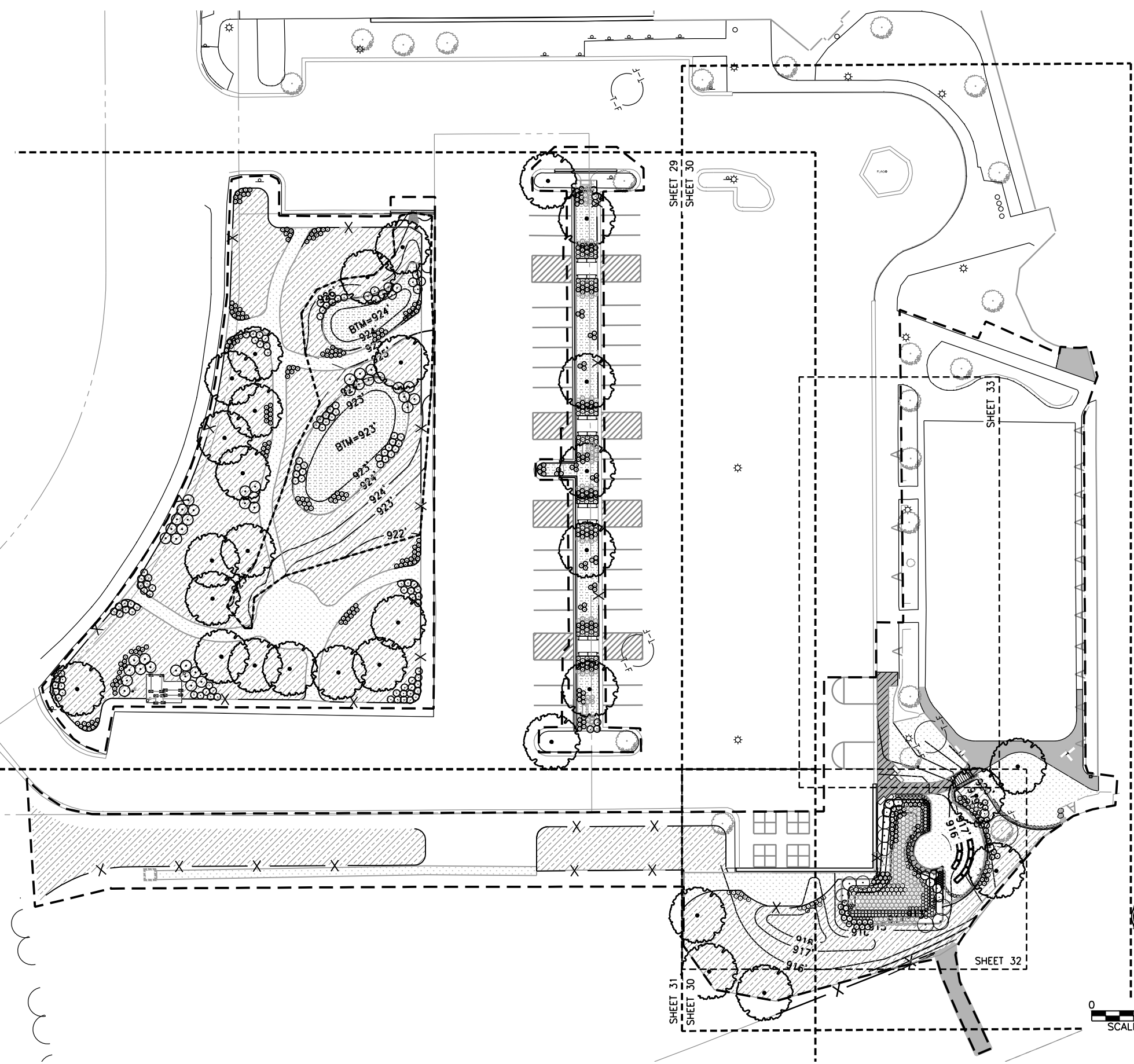


ST HUBERT SCHOOL PROJECT
 LANDSCAPE PLANS AND DETAILS
 CHANHASSEN, MINNESOTA

SHEET
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LEGEND

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|--|-----------------|--|------------------------|
| | DECIDUOUS TREE | | EXISTING MAJOR CONTOUR |
| | CONIFEROUS TREE | | EXISTING MINOR CONTOUR |
| | ORNAMENTAL TREE | | PROPOSED CONTOUR |
| | EXISTING TREE | | SEED PROTECTION FENCE |
| | DECIDUOUS SHRUB | | RETAINING WALL |
| | PERENNIAL | | PRAIRIE SEED MIX |
| | EXISTING LIGHT | | WET MEADOW SEED MIX |
| | | | WOODLAND SEED MIX |
| | | | TURF SEED MIX |
| | | | CONCRETE |
| | | | TREE PROTECTION FENCE |



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ST HUBERT SCHOOL PROJECT
 LANDSCAPE SHEET LAYOUT
 CHANHASSEN, MINNESOTA

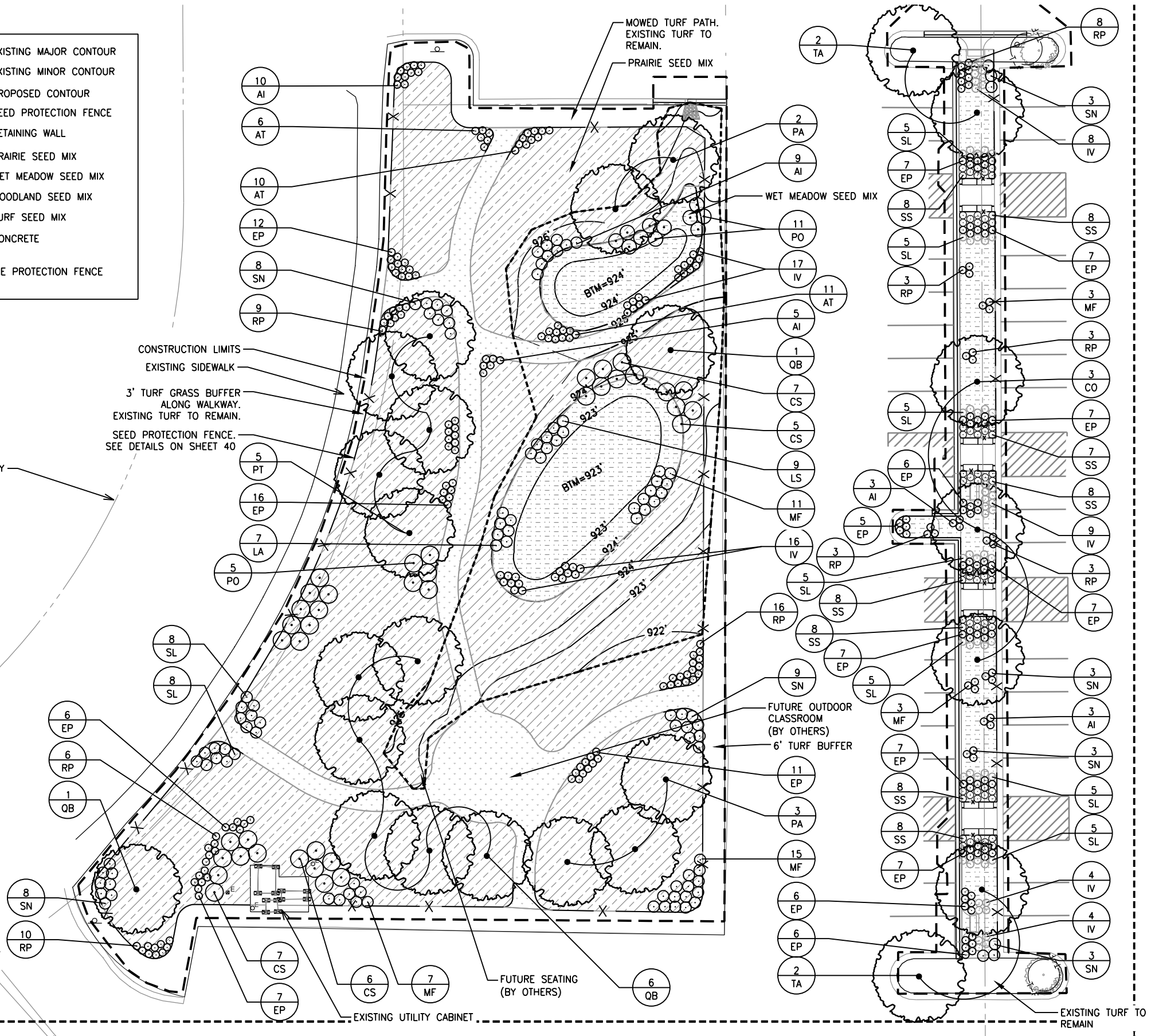
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LEGEND

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- EXISTING TREE
- DECIDUOUS SHRUB
- PERENNIAL
- EXISTING LIGHT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONTOUR
- SEED PROTECTION FENCE
- RETAINING WALL
- PRAIRIE SEED MIX
- WET MEADOW SEED MIX
- WOODLAND SEED MIX
- TURF SEED MIX
- CONCRETE
- TREE PROTECTION FENCE

EXISTING RIGHT OF WAY

CONSTRUCTION LIMITS
EXISTING SIDEWALK
3' TURF GRASS BUFFER
ALONG WALKWAY.
EXISTING TURF TO REMAIN.
SEED PROTECTION FENCE.
SEE DETAILS ON SHEET 40



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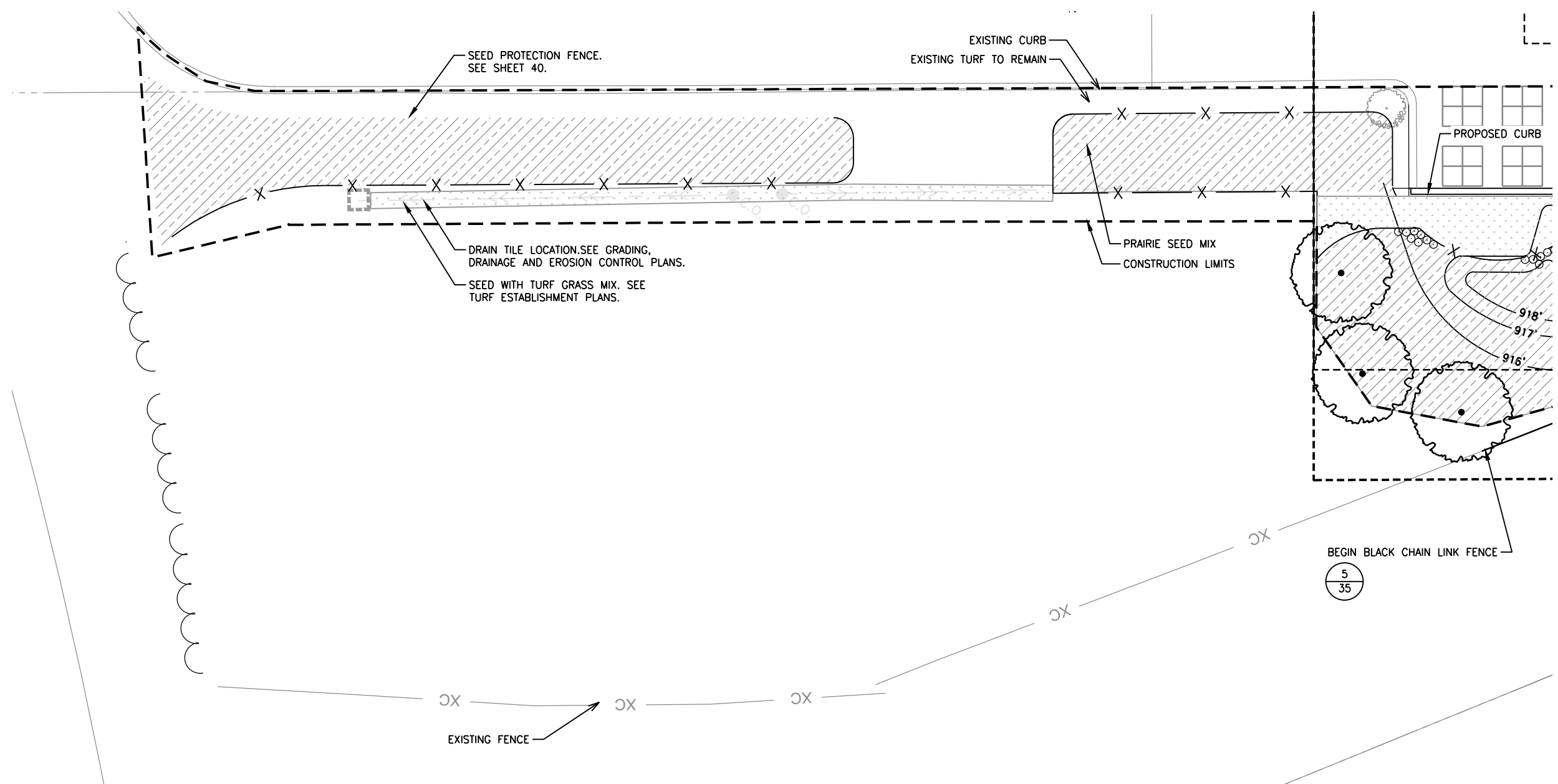
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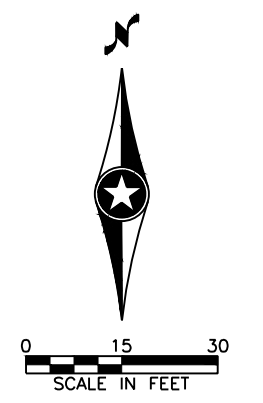


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 LANDSCAPE SITE PLAN
 CHANHASSEN, MINNESOTA

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| | EXISTING MINOR CONTOUR |
| | PROPOSED CONTOUR |
| | SEED PROTECTION FENCE |
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| | PRAIRIE SEED MIX |
| | WET MEADOW SEED MIX |
| | WOODLAND SEED MIX |
| | TURF SEED MIX |
| | CONCRETE |
| | TREE PROTECTION FENCE |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| | ORNAMENTAL TREE |
| | EXISTING TREE |
| | DECIDUOUS SHRUB |
| | PERENNIAL |
| | EXISTING LIGHT |



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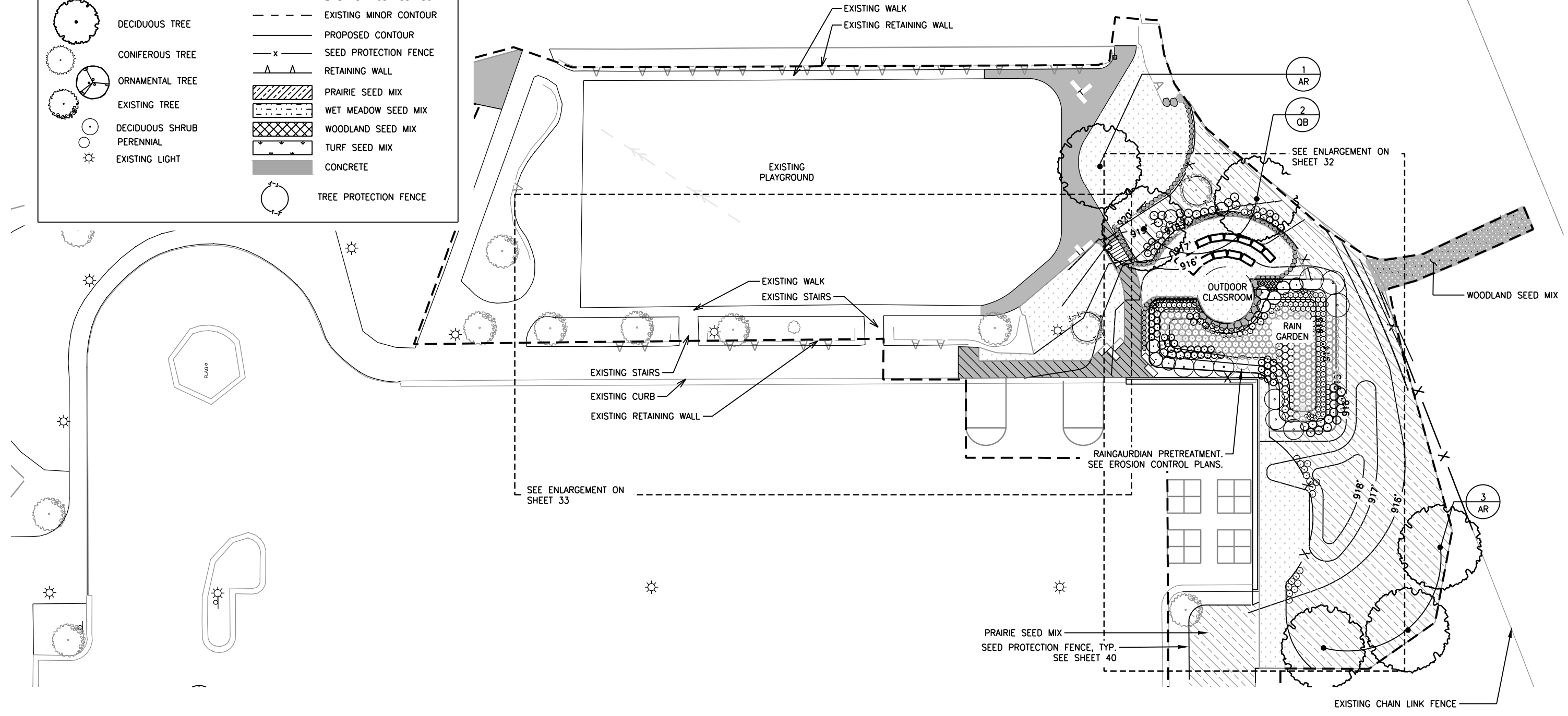


ST HUBERT SCHOOL PROJECT
 LANDSCAPE PLANS AND DETAILS
 CHANHASSEN, MINNESOTA

SHEET
 30
 OF
 40

LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- ORNAMENTAL TREE
- EXISTING TREE
- DECIDUOUS SHRUB
- PERENNIAL
- EXISTING LIGHT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED CONTOUR
- SEED PROTECTION FENCE
- RETAINING WALL
- PRAIRIE SEED MIX
- WET MEADOW SEED MIX
- WOODLAND SEED MIX
- TURF SEED MIX
- CONCRETE
- TREE PROTECTION FENCE



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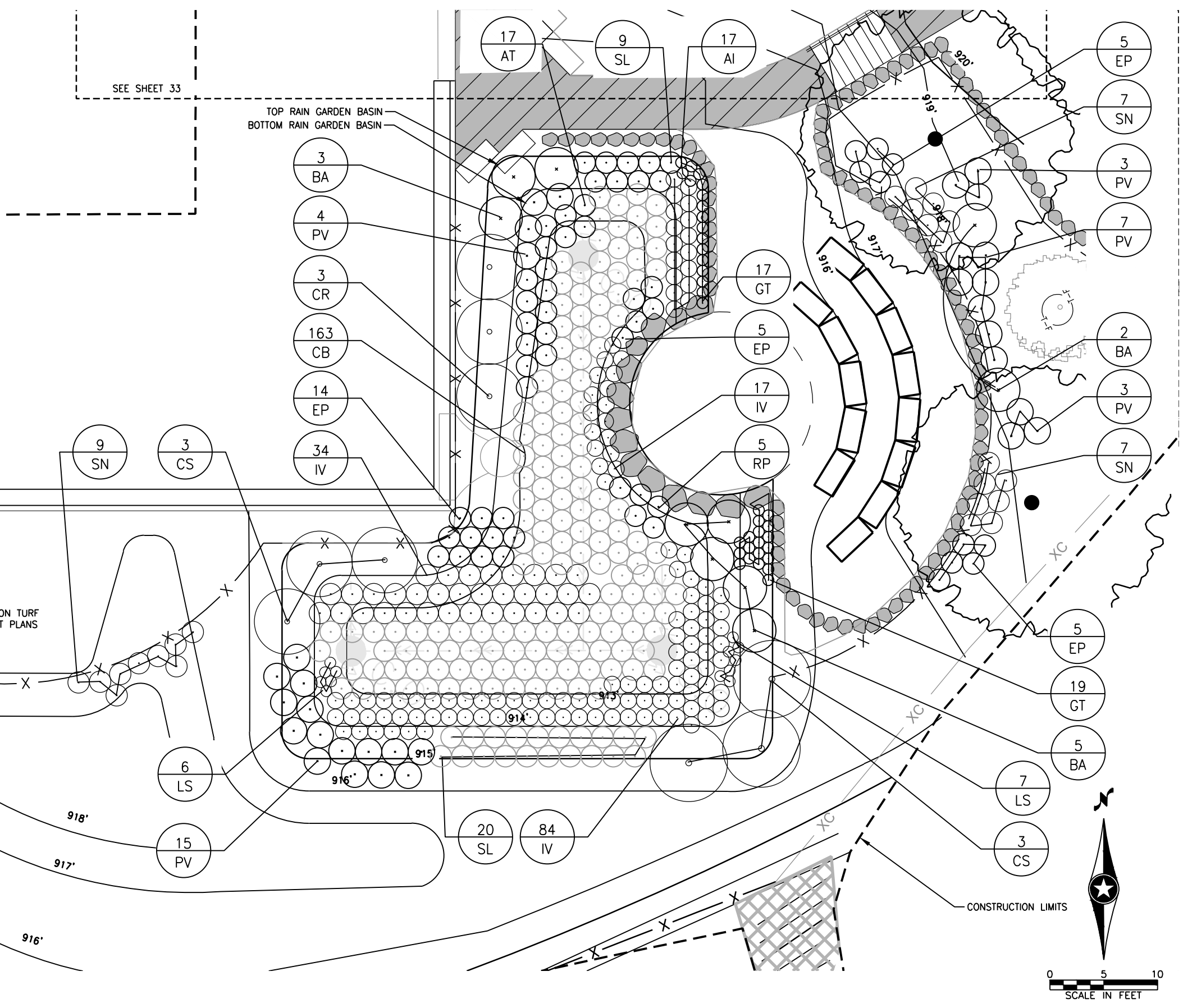


ST HUBERT SCHOOL PROJECT
 LANDSCAPE SITE PLAN
 CHANHASSEN, MINNESOTA

SHEET
 31
 OF
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LEGEND

| | | | |
|--|-----------------|--|------------------------|
| | DECIDUOUS TREE | | EXISTING MAJOR CONTOUR |
| | CONIFEROUS TREE | | EXISTING MINOR CONTOUR |
| | ORNAMENTAL TREE | | PROPOSED CONTOUR |
| | EXISTING TREE | | SEED PROTECTION FENCE |
| | DECIDUOUS SHRUB | | RETAINING WALL |
| | PERENNIAL | | PRAIRIE SEED MIX |
| | EXISTING LIGHT | | WET MEADOW SEED MIX |
| | | | WOODLAND SEED MIX |
| | | | TURF SEED MIX |
| | | | CONCRETE |
| | | | TREE PROTECTION FENCE |



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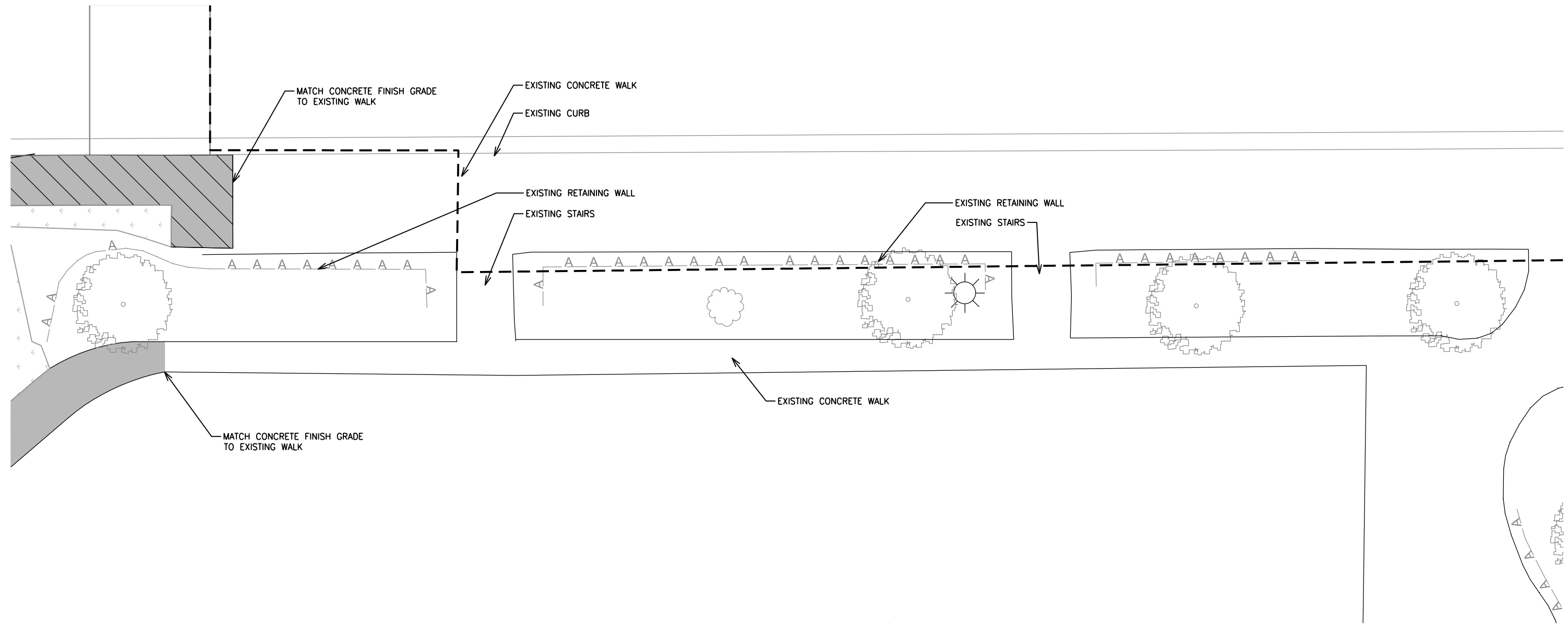
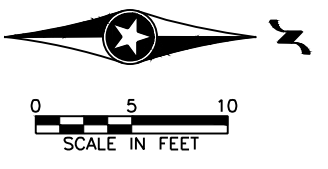


ST HUBERT SCHOOL PROJECT
 LANDSCAPE ENLARGMENT PLAN
 CHANHASSEN, MINNESOTA

SHEET
 32
 OF
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LEGEND

| | | | |
|--|-----------------|--|------------------------|
| | DECIDUOUS TREE | | EXISTING MAJOR CONTOUR |
| | CONIFEROUS TREE | | EXISTING MINOR CONTOUR |
| | ORNAMENTAL TREE | | PROPOSED CONTOUR |
| | EXISTING TREE | | SEED PROTECTION FENCE |
| | DECIDUOUS SHRUB | | RETAINING WALL |
| | PERENNIAL | | PRAIRIE SEED MIX |
| | EXISTING LIGHT | | WET MEADOW SEED MIX |
| | | | WOODLAND SEED MIX |
| | | | TURF SEED MIX |
| | | | CONCRETE |
| | | | TREE PROTECTION FENCE |



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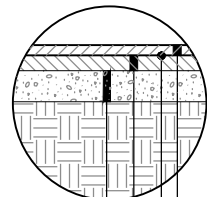
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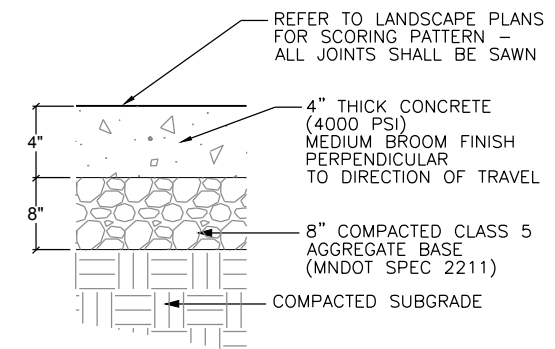
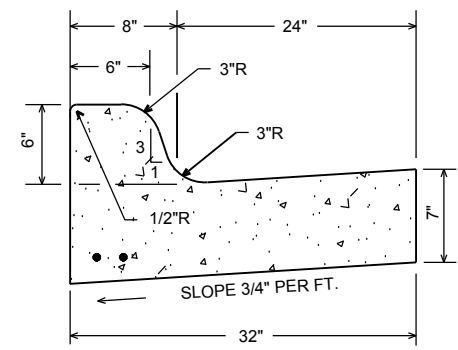


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 LANDSCAPE ENLARGMENT PLAN
 CHANHASSEN, MINNESOTA

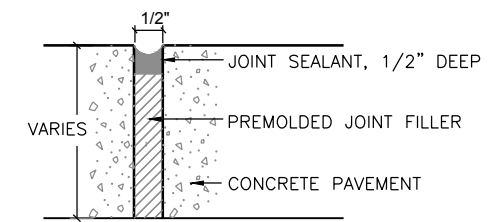
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1.5" BITUMINOUS WEARING COURSE
MIXTURE SPWEB240B MNDOT SPEC. 2360
BITUMINOUS MATERIAL FOR TACK COAT
MNDOT SPEC. 2357
1.5" BITUMINOUS BASE COURSE
MIXTURE SPNWB230B MNDOT SPEC. 2360
6" COMPACTED AGGREGATE BASE,
CLASS 5 MNDOT SPEC. 2211



NOTE:
TYP. EXPANSION JOINT, SHALL BE - 30' O.C. MAXIMUM AND AS LOCATED ON PLANS AND WHERE WALK ABUTS ANY FIXED OBJECT (EG. WALLS, CURBS, MANHOLES ETC.)
EXPANSION JOINTS SHALL BE SEALED WITH A POURABLE GREY SEALANT INCIDENTAL TO SIDEWALK CONSTRUCTION.



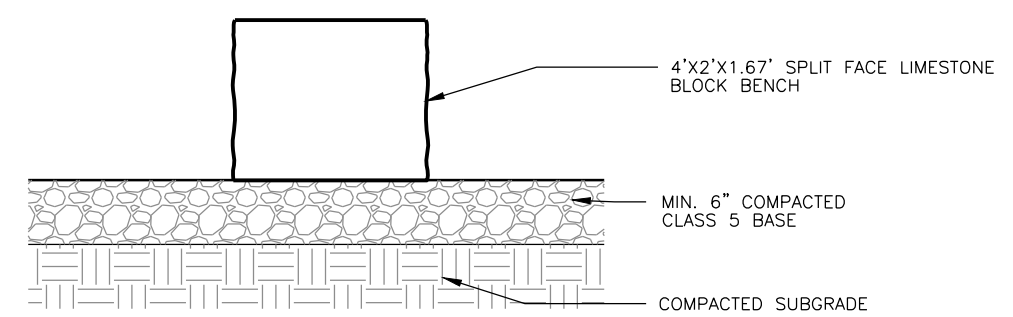
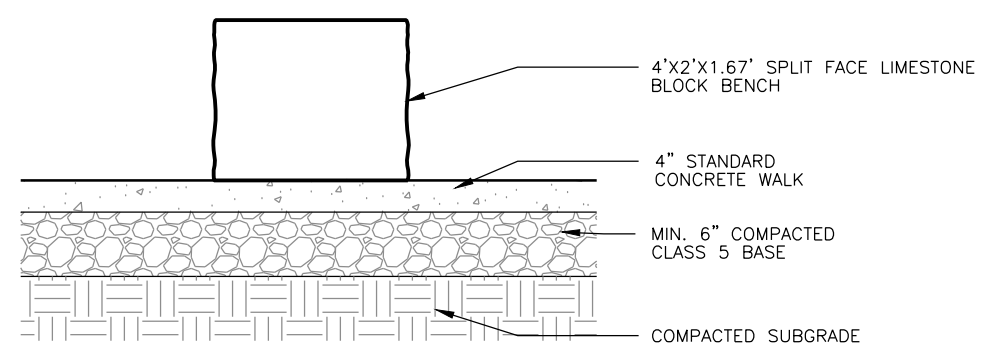
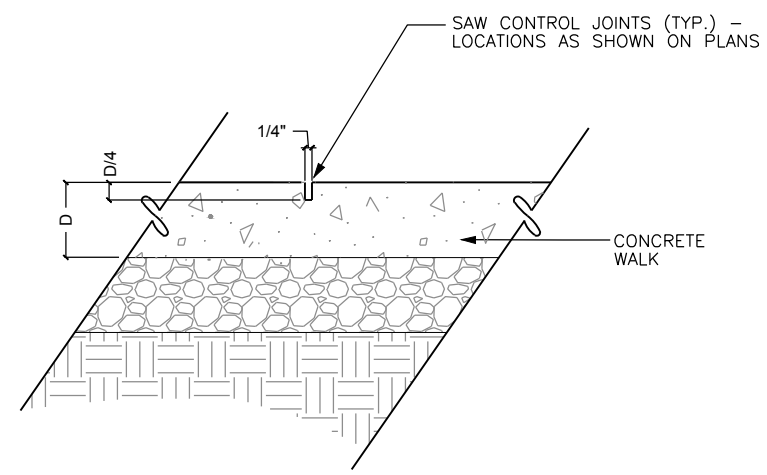
1 BITUMINOUS PAVEMENT
NOT TO SCALE

2 CONCRETE CURB AND GUTTER
NOT TO SCALE

3 4" CONCRETE WALK
NOT TO SCALE

4 DETAIL 4 OMITTED
NOT TO SCALE

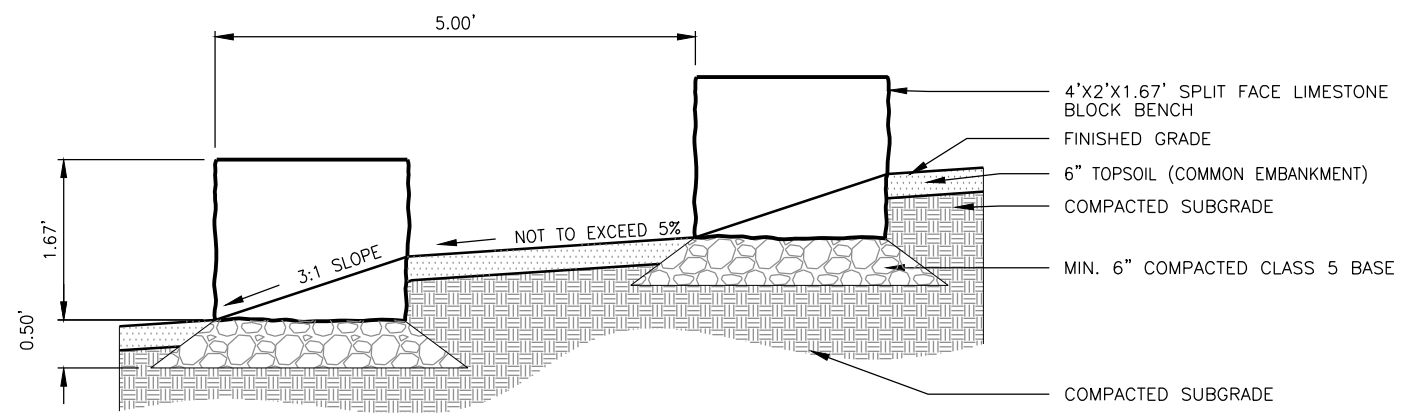
5 TYPICAL CONCRETE WALK EXPANSION JOINT
NOT TO SCALE



6 TYPICAL CONCRETE WALK CONTROL JOINT
NOT TO SCALE

7 TYPICAL LIMESTONE BENCH ON CONCRETE
NOT TO SCALE

8 TYPICAL LIMESTONE BENCH ON SOFT SURFACES
NOT TO SCALE



9 LIMESTONE SEATING - AMPHITHEATER
NOT TO SCALE

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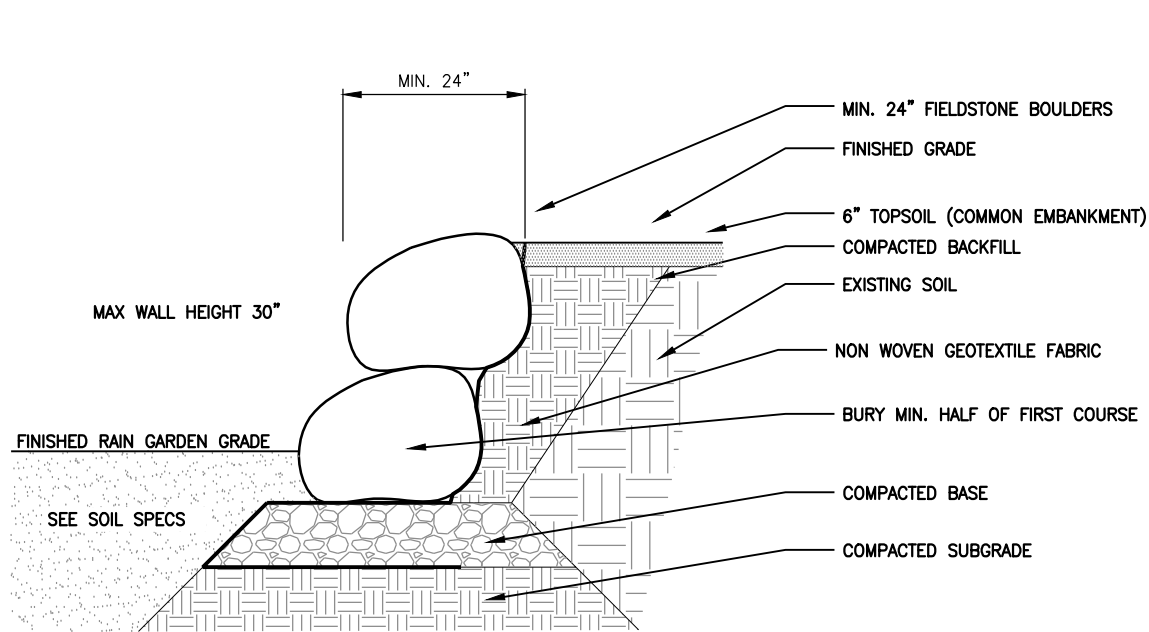
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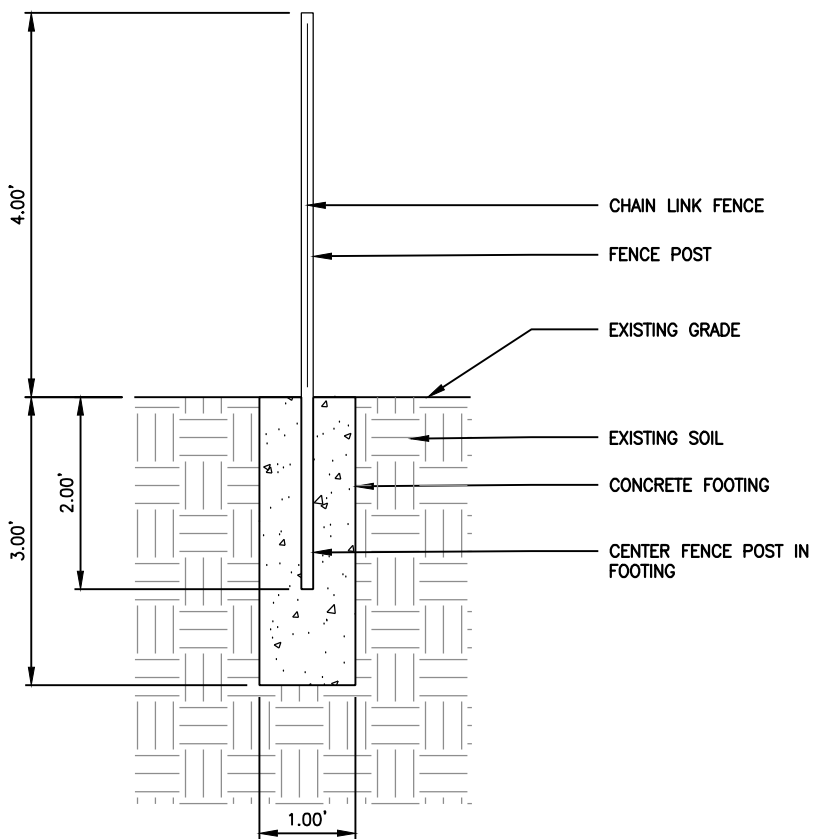
ST HUBERT SCHOOL PROJECT
 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
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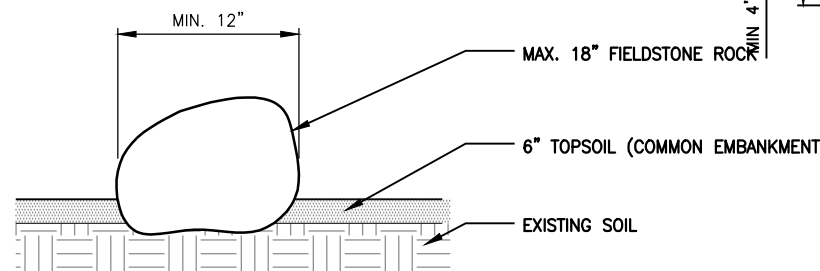
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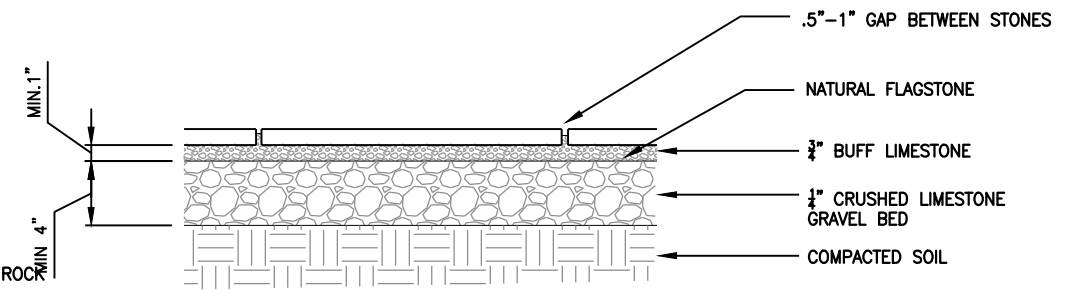
1 TYPICAL RAIN GARDEN BOULDER RETAINING WALL W/O DRAINTILE



5 BLACK CHAIN LINK FENCE END POST

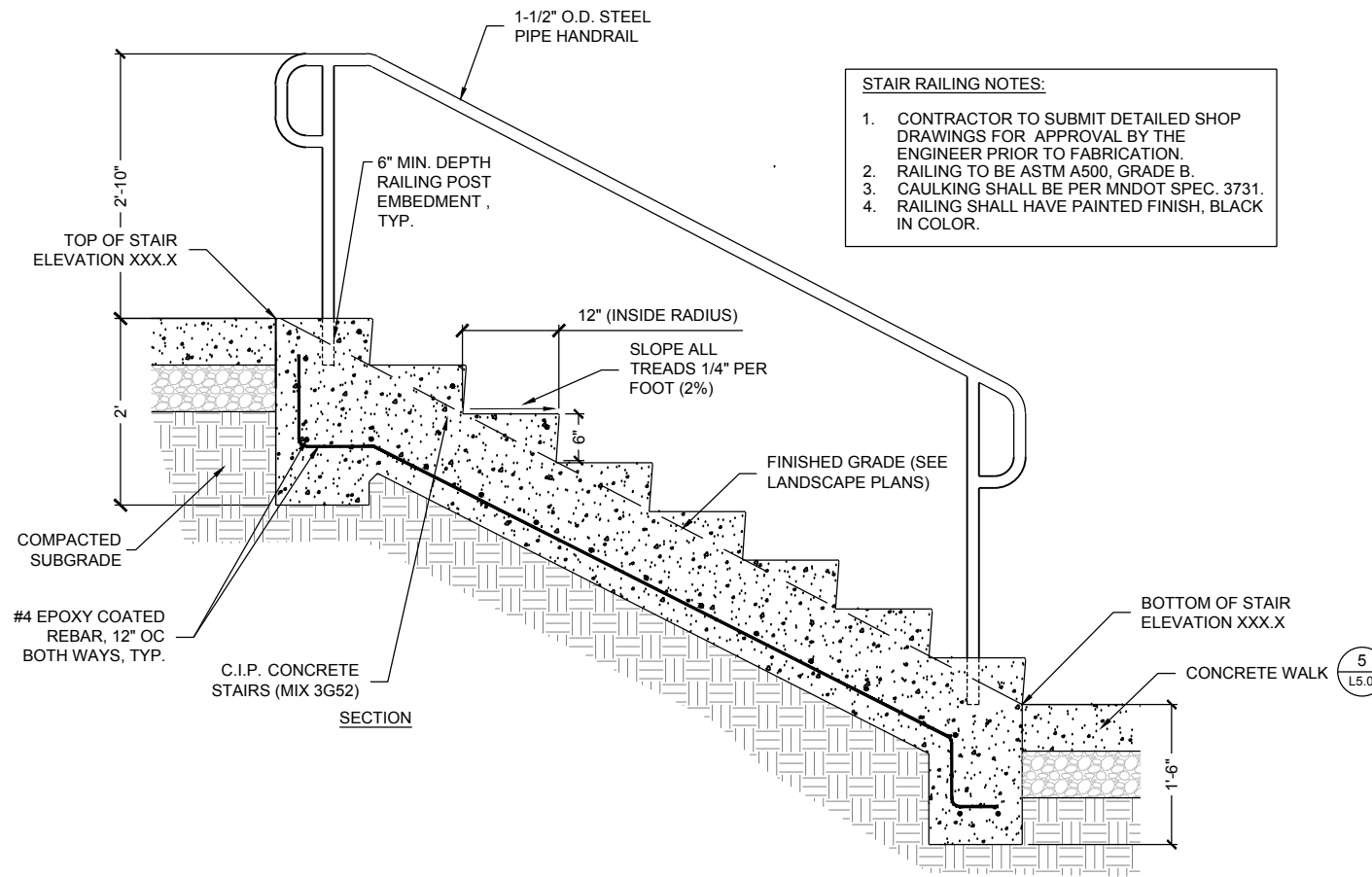


2 TYPICAL FIELDSTONE EDGER



3 TYPICAL FLAGSTONE WALK

4 DETAIL OMITTED



STAIR RAILING NOTES:
 1. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER PRIOR TO FABRICATION.
 2. RAILING TO BE ASTM A500, GRADE B.
 3. CAULKING SHALL BE PER MNDOT SPEC. 3731.
 4. RAILING SHALL HAVE PAINTED FINISH, BLACK IN COLOR.

6 CONCRETE STAIRS WITH METAL HANDRAIL
NOT TO SCALE

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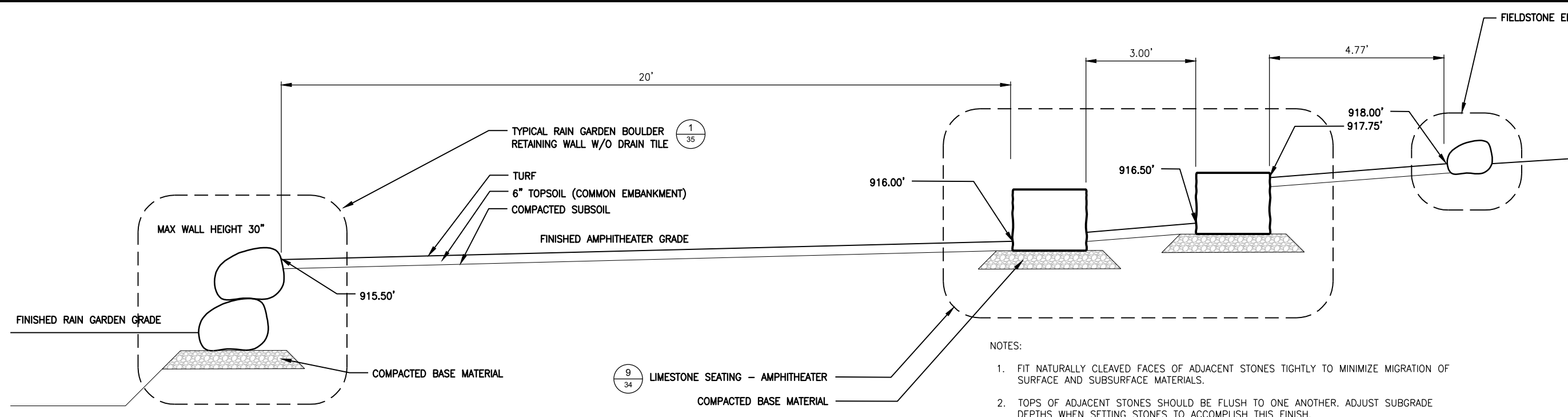
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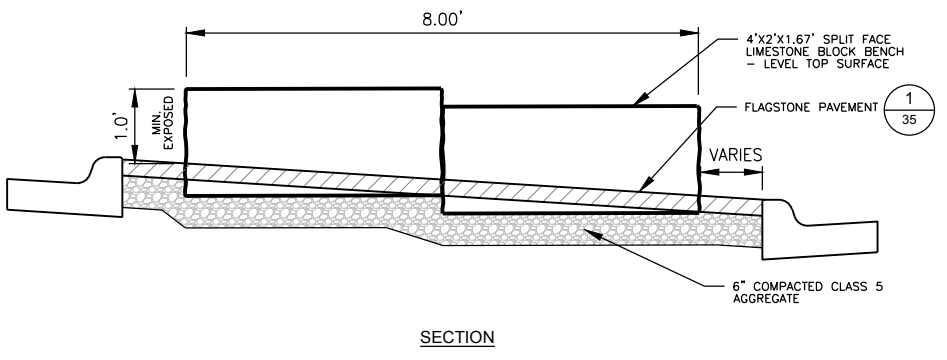
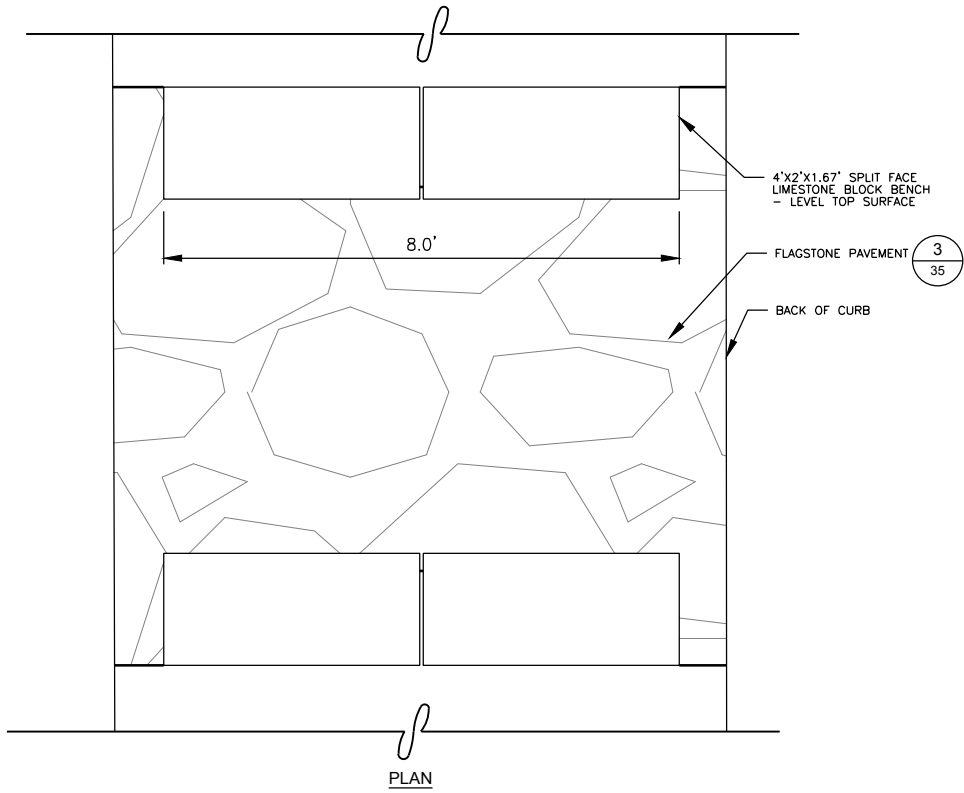
ST HUBERT SCHOOL PROJECT
 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
35
OF
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- NOTES:
1. FIT NATURALLY CLEAVED FACES OF ADJACENT STONES TIGHTLY TO MINIMIZE MIGRATION OF SURFACE AND SUBSURFACE MATERIALS.
 2. TOPS OF ADJACENT STONES SHOULD BE FLUSH TO ONE ANOTHER. ADJUST SUBGRADE DEPTHS WHEN SETTING STONES TO ACCOMPLISH THIS FINISH.

1 AMPHITHEATER CROSS SECTION



2 TREE TRENCH FLAGSTONE PAVEMENT AND LIMESTONE SEATING DETAIL

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ST HUBERT SCHOOL PROJECT
 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

GENERAL NOTES

- SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS.
- REFER TO MnDOT SPECIFICATIONS 2571, 2572, 3861, FOR GENERAL REQUIREMENTS.
- COMPLETE PREPARATORY WORK BEFORE STARTING INITIAL PLANTING OPERATIONS.
- ACCEPT ALL PLANT STOCK IN ACCORDANCE WITH (MnDOT 3861) PRIOR TO PLANTING.
- THE CONTRACTOR WILL DEMONSTRATE COMPETENCY FOR SOIL CULTIVATION OPERATIONS IN ACCORDANCE WITH (MnDOT 2571.3D.2)
- THE CONTRACTOR WILL DEMONSTRATE COMPETENCY FOR ALL PLANT INSTALLATION OPERATIONS IN ACCORDANCE WITH (MnDOT 2571.3F1)

| | |
|-------------------|---|
| RODENT PROTECTION | SEE SPECIAL PROVISIONS AND STANDARD PLANTING DETAILS (3 OF 3) |
| FERTILIZER | SEE SPECIAL PROVISIONS |
| COMPOST | MnDOT 3890 COMPOST GRADE 2 UNLESS OTHERWISE SPECIFIED. |
| MULCH MATERIAL | MnDOT 3882 MULCH MATERIAL TYPE 6 UNLESS OTHERWISE SPECIFIED. |

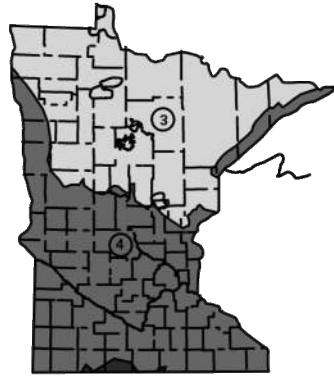
MASS PLANTING BEDS

PREPARE MASS PLANTING BEDS FOR PLANTS PLACED AT 15' OR LESS, UNLESS OTHERWISE SPECIFIED ON SHEETS. PLANT BEDS IN STAGGERED ROWS ON THE PERIMETER FIRST, THEN UNIFORMLY FILL IN WITH REMAINING PLANTS. USE TRIANGULAR SPACING, UNLESS SPECIFIED OTHERWISE. PROVIDE 5' RADIUS CLEAR OF SHRUBS AROUND EACH DECIDUOUS TREE AND 8' CLEAR RADIUS AROUND EACH CONIFER TREE. RADIUS WILL BE MEASURED FROM THE CENTER OF THE TREE TO THE CENTER OF THE SHRUB. NOTIFY ENGINEER OF GROSS PLANT QUANTITY SURPLUS OR DEFICIENCY IMMEDIATELY. MULCH ENTIRE MASS PLANTING BED. SEE STANDARD PLANTING DETAILS (3 OF 3)

PLANTING PLAN DIMENSIONS STATED DIMENSIONS SUPERCEDE SCALING FROM PLAN.

| WATERING GUIDELINES (MnDOT 2571.3G) | PLANT TYPE | AVERAGE GALLONS OF WATER PER APPLICATION |
|-------------------------------------|--------------------------------|--|
| | MACHINE TRANSPLANTED TREES | 50-100 |
| | BALLED AND BURLAPPED TREES | 20 |
| | BARE ROOT AND CONTAINER TREES | 15 |
| | BALLED AND BURLAPPED SHRUBS | 10 |
| | BARE ROOT AND CONTAINER SHRUBS | 7 |
| | WOODY SEEDLINGS | 4 |
| | PERENNIALS AND VINES | 3 |

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR AND MAINTAIN SOIL MOISTURE AT ADEQUATE BUT NOT EXCESSIVE LEVELS. THE AMOUNTS LISTED ABOVE ARE GUIDELINES, NOT REQUIREMENTS.

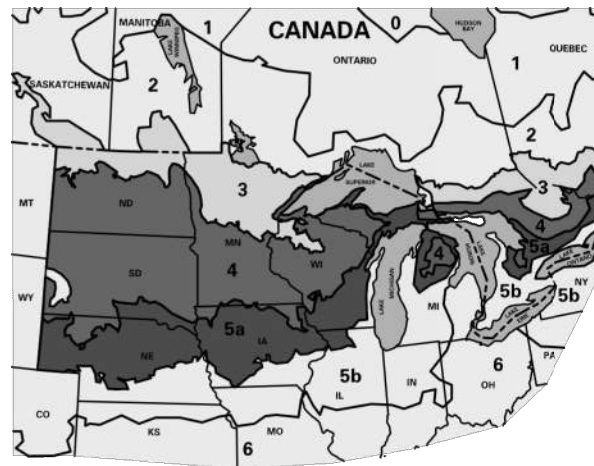


- BARE ROOT PERENNIALS MUST BE PLACED IN THE SPRING NO LATER THAN JUNE 1ST OR FOLLOW THE FALL DECIDUOUS PLANTING DATES.
- ACTUAL DATES MAY CHANGE DEPENDING UPON SEASONAL CONDITIONS, AS DETERMINED BY THE ENGINEER.
- FALL PLANTING IS NOT ALLOWED FOR BARE ROOT FORM OF THE FOLLOWING SPECIES: HAWTHORN, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE, WILLOW, CRABAPPLE, PLUMCHERRY, OAKS, AND SUMAC.
- ALL REPLACEMENT PLANTS MUST BE PLACED DURING THE MONTH OF MAY (SPRING PLANTING) AND SEPTEMBER (FALL PLANTING) DURING THE FIRST YEAR OF THE PLANT ESTABLISHMENT PERIOD.
- MACHINE MOVED PLANTING DATES WILL BE SPECIFIED IN THE SPECIAL PROVISIONS.

PLANTING DATES BY ZONE

| | | 3 | 4 |
|--------|---------------------|---------------------|---------------------|
| SPRING | DECIDUOUS BARE ROOT | APRIL 21 TO JUNE 1 | APRIL 7 TO JUNE 1 |
| | CONTAINER B&B | APRIL 21 TO JUNE 30 | APRIL 7 TO JUNE 30 |
| | CONIFEROUS | APRIL 21 TO JUNE 1 | APRIL 7 TO MAY 17 |
| | PERENNIALS | MAY 1 TO JUNE 30 | TO JUNE 30 |
| FALL | DECIDUOUS BARE ROOT | OCT. 1 TO NOV. 1 | OCT. 10 TO NOV. 15 |
| | CONTAINER B&B | AUG. 25 TO OCT. 15 | AUG. 25 TO NOV. 1 |
| | CONIFEROUS | AUG. 25 TO SEPT. 15 | AUG. 25 TO SEPT. 15 |
| | PERENNIALS | AUG. 25 TO SEPT. 15 | AUG. 25 TO SEPT. 15 |

PLANT INSTALLATION PERIOD



| ZONES | LEGEND | MIN. TEMP. |
|-------|--------|--------------------|
| 3 | | -34.4° TO -40° F |
| 4 | | -28.9° TO -34.4° F |
| 5a | | -26.1° TO -28.9° F |

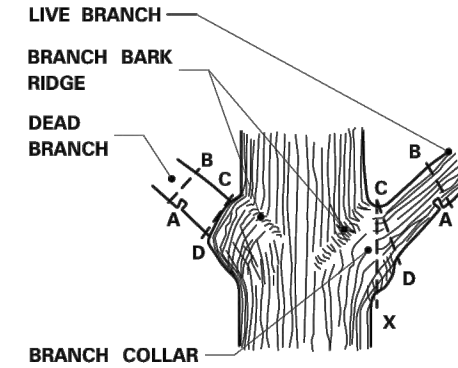
| ZONES | LEGEND |
|-------------------|--------|
| 0, 1, 2, 5b and 6 | |

FOR ALL PLANT STOCK, DOCUMENT ACCEPTABILITY FOR HARDINESS IN THE MINNESOTA ZONE WHERE THE PROJECT SITE IS LOCATED, AS FOLLOWS:

- PLANT STOCK CONTINUOUSLY GROWN FOR AT LEAST THE LAST TWO YEARS WITHIN THE ACCEPTABLE LIMITS SHOWN.
- OR
- PLANT STOCK, GROWN OUTSIDE THE ACCEPTABLE GROWING RANGE LIMITS, HAVING SEED SOURCE OR ROOT AND GRAFT STOCK ORIGINATING FROM THE ACCEPTABLE LIMITS SHOWN.

ACCEPTABLE PLANT STOCK GROWING RANGE LIMITS

SOURCE: USDA PLANT HARDINESS ZONE MAP (MnDOT 3861.2C)

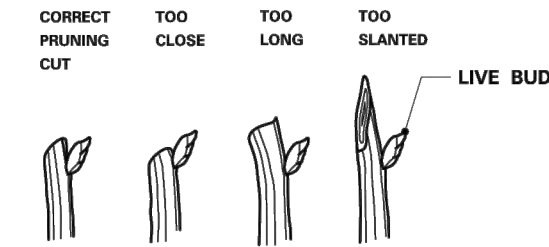


- STEPS TO PRUNING WITH PRUNING SAW:**
- CUT PART WAY THROUGH THE BRANCH AT POINT A.
 - CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
 - AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

BRANCHES PRUNED AT TRUNK (SHIGO METHOD)



- PRUNING NOTES:**
- PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
 - THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
 - AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
 - IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

BRANCHES PRUNED TO LIVE BUD

PRUNING

(MnDOT 2571.3E.1 and 2571.3K.2.a(9))

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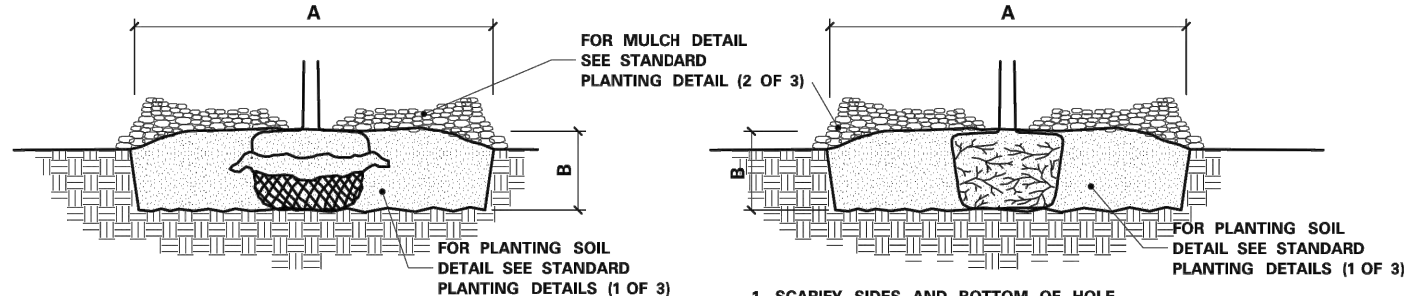
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 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
37
OF
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PLANTING HOLE DIMENSIONS

HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLARE TO BOTTOM OF SOIL BALL.

| PLANT TYPE | PLANT SIZE UP TO AND INCLUDING | (A) MINIMUM HOLE WIDTH | (B) APPROXIMATE HOLE DEPTH |
|--|--------------------------------|------------------------|----------------------------|
| DECIDUOUS & ORNAMENTAL TREES | 3" B.R. | 46" | 13" |
| | 4" B.R. | 46" | 14" |
| | 5" B.R. | 48" | 14" |
| | 6" B.R. | 54" | 15" |
| | 7" B.R. | 60" | 16" |
| | 8" B.R. | 66" | 19" |
| | 0.75" B.B. | 48" | 12" |
| | 1" B.B. | 54" | 14" |
| | 1.25" B.B. | 60" | 14" |
| | 1.5" B.B. | 66" | 15" |
| | 1.75" B.B. | 72" | 16" |
| | 2" B.B. | 84" | 19" |
| | 4" B.B. | 42" | 11" |
| | 5" B.B. | 48" | 12" |
| | 6" B.B. | 52" | 14" |
| | 8" B.B. | 66" | 16" |
| | 10" B.B. | 66" | 16" |
| | 12" B.B. | 48" | 16" |
| | 1" B.B. | 54" | 14" |
| | 1.25" B.B. | 56" | 15" |
| 1.5" B.B. | 61" | 15" | |
| 1.75" B.B. | 66" | 16" | |
| 2" B.B. | 72" | 16" | |
| 2.5" B.B. | 84" | 19" | |
| 3" B.B. | 96" | 20" | |
| 3.5" B.B. | 114" | 23" | |
| 4" B.B. | 126" | 25" | |
| DECIDUOUS SHRUBS, ROSES AND PERENNIALS | 12" B.R. | 24" | 7" |
| | 15" B.R. | 28" | 8" |
| | 18" B.R. | 30" | 8" |
| | 2" B.R. | 33" | 9" |
| | 3" B.R. | 42" | 11" |
| | 4" B.B. | 48" | 12" |
| PERENNIAL HOLE DEPTH AND WIDTH SHALL BE BASED UPON ON-CENTER SPACING IN A CONTINUOUS TRENCH. | 5" B.R. | 54" | 14" |
| | 6" B.R. | 60" | 14" |
| | 18" B.B. | 27" | 7" |
| | 2" B.B. | 30" | 8" |
| | 3" B.B. | 36" | 9" |
| | 4" B.B. | 42" | 11" |
| 5" B.B. | 48" | 12" | |
| 6" B.B. | 54" | 14" | |



1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. PLACE PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
6. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
7. PLUMB AND BACKFILL WITH PLANTING SOIL.
8. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
9. BACK FILL VOIDS AND WATER A SECOND TIME.
10. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE TOP OF THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE.
5. PLUMB AND BACKFILL WITH PLANTING SOIL.
6. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
7. BACK FILL VOIDS AND WATER A SECOND TIME.
8. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

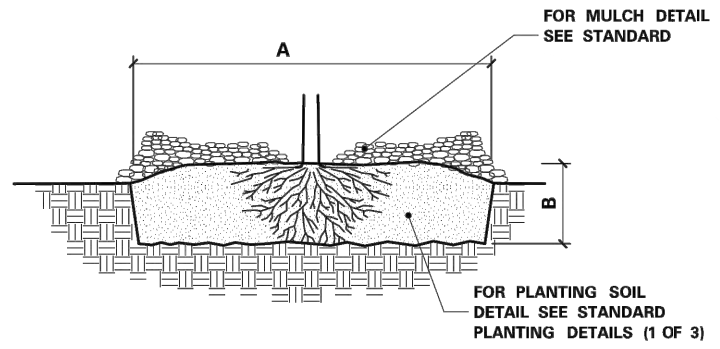
CONTAINER STOCK

PLANTING HOLE DIMENSIONS

HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLARE TO BOTTOM OF SOIL BALL.

| PLANT TYPE | PLANT SIZE UP TO AND INCLUDING | (A) MINIMUM HOLE WIDTH | (B) APPROXIMATE HOLE DEPTH |
|-------------------------------|--------------------------------|------------------------|----------------------------|
| CONIFEROUS TREES | 2" B.B. | 36" | 10" |
| | 3" B.B. | 42" | 11" |
| | 4" B.B. | 51" | 13" |
| | 5" B.B. | 60" | 13" |
| | 6" B.B. | 66" | 15" |
| | 7" B.B. | 72" | 16" |
| | 8" B.B. | 81" | 18" |
| | 9" B.B. | 90" | 20" |
| | 10" B.B. | 102" | 21" |
| | 12" B.B. | 114" | 24" |
| CONIFEROUS SHRUBS (UPRIGHT) | 18" B.B. | 24" | 7" |
| | 3" B.B. | 48" | 12" |
| CONIFEROUS SHRUBS (SPREADING) | 18" SPR B.B. | 30" | 8" |
| | 2" SPR B.B. | 36" | 9" |
| CONTAINER GROWN PLANTS | CELLPACKS / PLUGS | 6" | 2.5" |
| | 2.25" CONT. | 7" | 3" |
| | 3.5" CONT. | 10" | 3" |
| | 4" CONT. | 11" | 4" |
| | 4.5" CONT. | 13" | 4" |
| | 6"1 QT CONT. | 15" | 5.5" |
| | 1# CONT. | 18" | 6" |
| | 2# CONT. | 23" | 7.5" |
| | 3# CONT. | 29" | 8.5" |
| | 5# CONT. | 30" | 11" |
| SEEDLINGS | 7# CONT. | 37" | 11" |
| | 15# CONT. | 44" | 14" |
| | 10# CONT. | 45" | 15" |
| | 20# CONT. | 60" | 16" |
| | 25# CONT. | 72" | 17" |
| | 6" SEEDLING | 15" | 14" |
| | 9" SEEDLING | 18" | 14" |
| | 12" SEEDLING | 23" | 16" |
| | 18" SEEDLING | 30" | 16" |
| | 2" SEEDLING | 36" | 18" |
| VINES | 1 YR. MED. B.R. | 15" | 11" |
| | 1 YR. NO. 1 B.R. | 17" | 14" |
| | 2 YR. MED. B.R. | 33" | 12" |
| 2 YR. NO. 1 B.R. | 42" | 15" | |

BALLED & BURLAPPED STOCK



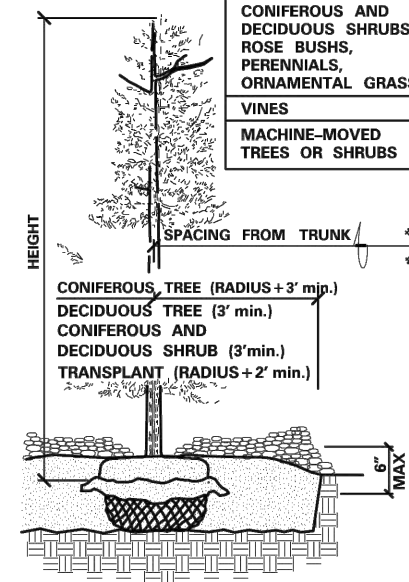
1. SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
2. SCARIFY SIDES AND BOTTOM OF HOLE.
3. PROCEED WITH CORRECTIVE PRUNING OF THE TOP AND ROOTS.
4. TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY. PLUMB AND IMMEDIATELY BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER A SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

**BARE ROOT STOCK
INSTALLATION OF PLANTS**

MULCH AREA CALCULATOR

| TYPE OF PLANT | SQ. FT. PER PLANT |
|--|---|
| CONIFEROUS TREES | $\left[\left(\frac{3}{5} \times \text{HEIGHT}\right) + 3\right]^2 \times \pi$ |
| DECIDUOUS AND ORNAMENTAL TREES | $3^2 \times \pi$ |
| CONIFEROUS AND DECIDUOUS SHRUBS, ROSE BUSHES, PERENNIALS, ORNAMENTAL GRASS | SPACING x SPACING |
| VINES | SPACING x 2 |
| MACHINE-MOVED TREES OR SHRUBS | $\left[\left(\frac{\text{SPADE DIAMETER}}{2}\right) + 1\right]^2 \times \pi$ |

$\pi = 3.1416$



1. PULL MULCH BACK NO LESS THAN 3" AND NO MORE THAN 6" FROM TREES AND SHRUBS AT THE TRUNK OR MAIN STEM.
2. SUBSIDING OR DETERIORATING MULCH IS ACCEPTABLE THROUGHOUT THE ESTABLISHED PERIOD IF THE MULCH DEPTH IS MAINTAINED AT A MINIMUM 3" DEPTH.
3. ADD MULCH WHEN BELOW THE 3" MINIMUM DEPTH; DO NOT EXCEED THE 6" MAXIMUM DEPTH.
4. MULCH CONTAMINATED WITH SOIL MUST BE REMOVED AND REPLACED.

MULCH

(MnDOT 2571.3F)

(MnDOT 2571.3H)

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| NO | DATE | BY | CHKD | APPR |
|----|------|----|------|------|
| | | | | |

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.
 Print Name: SEAN JERGENS
 Date: --/--/-- License # 47256

DRAWN BY
AVD
 DESIGNED BY
AVD
 CHECKED BY
SCJ
 COMM. NO. 13385

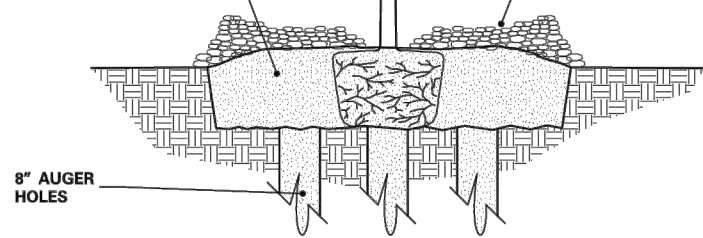


ST HUBERT SCHOOL PROJECT
 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

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FOR PLANTING SOIL
DETAIL SEE STANDARD
PLANTING DETAILS (1 OF 3)

FOR MULCH DETAIL
SEE STANDARD
PLANTING DETAIL (2 OF 3)

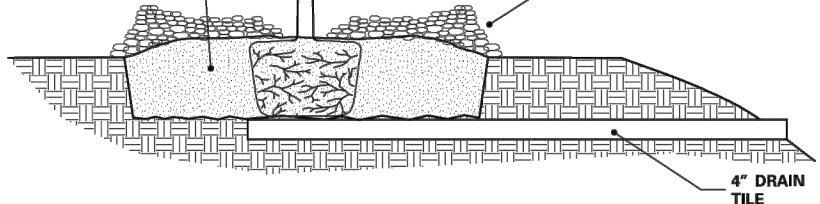


1. EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
2. AUGER 8" DIAMETER HOLES ENTIRELY THROUGH IMPERVIOUS OR POORLY DRAINED HARD PAN SOIL LAYER TO ADEQUATELY DRAIN SUBSOIL.
3. TEST FOR POSITIVE DRAINAGE. RE-AUGER AN ADDITIONAL 8" IF NECESSARY FOR POSITIVE DRAINAGE.
4. THOROUGHLY BACKFILL AUGER HOLES WITH A UNIFORM INCORPORATED MIXTURE OF 50% SAND AND 50% INPLACE SOIL.
5. COMPLETE PLANTING ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (2 OF 3).

GRANULAR FILTER

FOR PLANTING SOIL
DETAIL SEE STANDARD
PLANTING DETAILS (1 OF 3)

FOR MULCH DETAIL
SEE STANDARD
PLANTING DETAIL (1 OF 3)

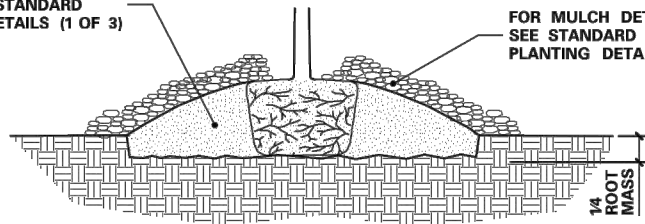


1. EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF THE ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
2. INSTALL 4" MINIMUM DIAMETER DRAIN TILE DAYLIGHTING AT A LOWER GRADE.
3. COMPLETE PLANTING ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (2 OF 3).

TILE DRAINAGE

FOR PLANTING SOIL
DETAIL SEE STANDARD
PLANTING DETAILS (1 OF 3)

FOR MULCH DETAIL
SEE STANDARD
PLANTING DETAIL (2 OF 3)



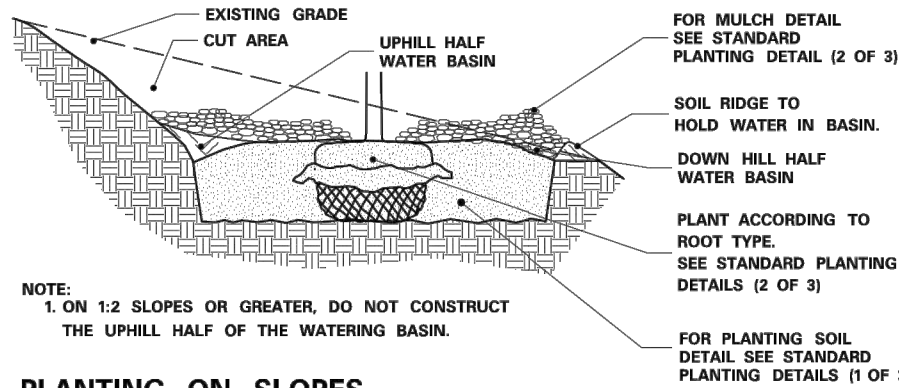
1. EXCAVATE HOLE OR BED 14 THE DEPTH OF THE ROOT MASS.
2. SET ROOT MASS IN HOLE.
3. CONSTRUCT BERM WITH PLANTING SOIL. EXTEND THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.
4. COMPLETE PLANTING ACCORDING ROOT TYPE. SEE STANDARD PLANTING DETAILS (2 OF 3).

MINI-BERM

NOTE:
1. THE NEED FOR USING PLANTING DETAILS FOR POORLY DRAINED SOILS AND WHICH TYPE TO USE ARE DETERMINED BY THE CONTRACTOR, SUBJECT TO ENGINEER APPROVAL.

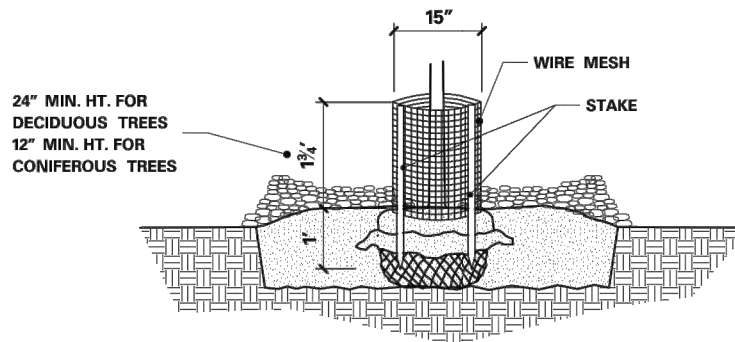
PLANTING DETAIL FOR POORLY DRAINED SOILS

(MnDOT 2571.3D.2(8))



NOTE:
1. ON 1:2 SLOPES OR GREATER, DO NOT CONSTRUCT THE UPHILL HALF OF THE WATERING BASIN.

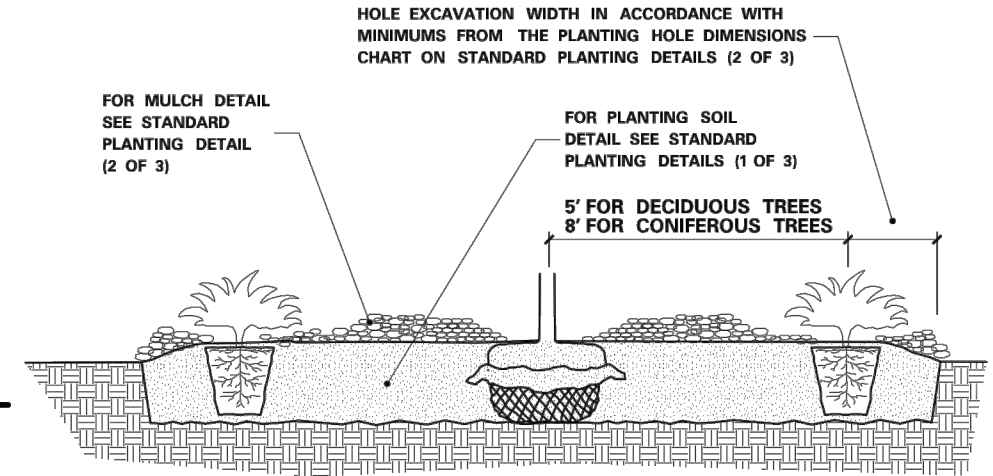
PLANTING ON SLOPES



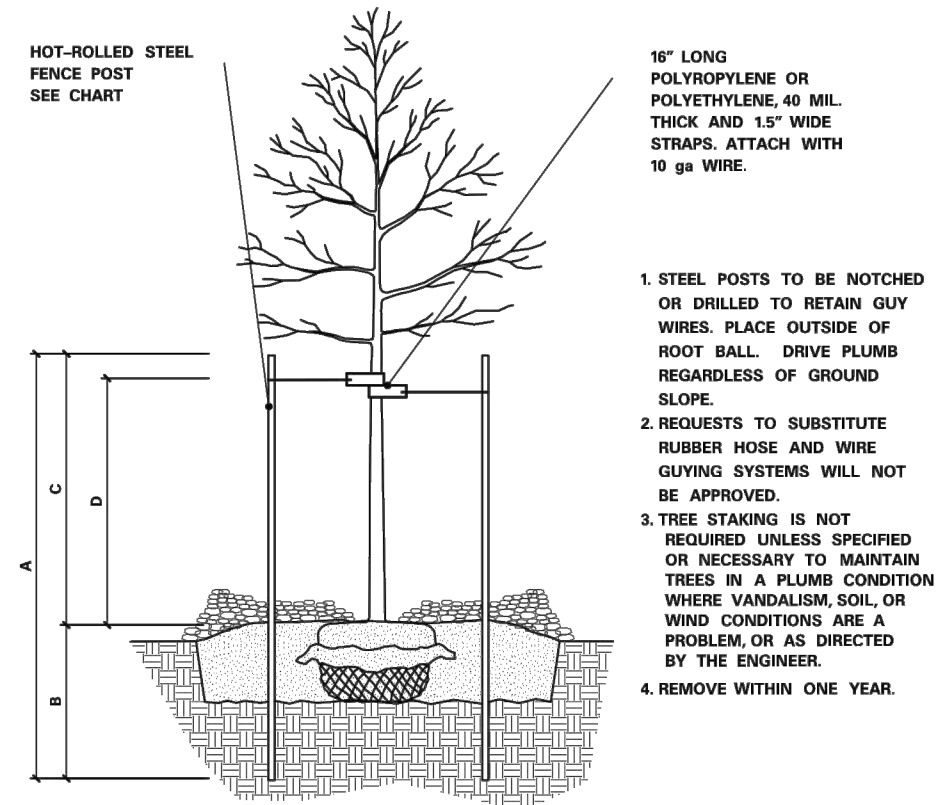
1. FORM A DOUBLE-LAYERED CYLINDER USING 0.25" GRID GALVANIZED WELDED WIRE MESH (HARDWARE CLOTH). OVERLAP THE CUT END 2".
2. DRIVE TWO 1" x 1" OPPOSING HEARTWOOD WHITE OAK STAKES INTO THE GROUND, 7" FROM THE CENTER OF THE TREE STEM.
3. SECURE THE MESH CYLINDER TO THE OUTSIDE OF THE STAKES USING EITHER, SCREWS AND WASHERS OR CABLE-TIES ALONG THE OVERLAP. SPACE APPROXIMATELY 4" ON CENTER ALONG THE OVERLAP.
 - a. SCREWS SHALL BE ROUND HEAD GALVANIZED 1/8" DIA. x 3/4" LONG WITH WASHERS.
 - OR
 - b. CABLE-TIES SHALL BE NYLON, AT LEAST 8" LONG AND BETWEEN 75LB TO 120LB TENSILE STRENGTH.
4. EMBED THE LOWER EDGE OF THE MESH CYLINDER 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
5. CUT EDGES WILL NOT BE PERMITTED AT THE TOP OF THE CYLINDER. STAKE WILL BE FLUSH WITH THE TOP OF THE CYLINDER.
6. MULCH WITHIN THE CYLINDER SHALL NOT EXCEED 3" DEPTH AND SHALL BE PULLED BACK FROM THE TRUNK AS SPECIFIED IN MULCH PLACEMENT DETAIL.
7. THE BOTTOM WHORL OF PINE AND LARCH BRANCHES MAY HAVE TO BE REMOVED TO PERMIT INSTALLATION OF 12" MIN. HEIGHT RODENT GUARDS.
8. INSTALL ON ALL DECIDUOUS, PINE AND LARCH TREES, DO NOT PLACE ON SPRUCE TREES.

RODENT PROTECTION

(MnDOT 2571.3I.2)



PLANT SPACING IN MASS BEDS



HOT-ROLLED STEEL
FENCE POST
SEE CHART

16" LONG
POLYPROPYLENE OR
POLYETHYLENE, 40 MIL.
THICK AND 1.5" WIDE
STRAPS. ATTACH WITH
10 ga WIRE.

1. STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.
2. REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.
3. TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM, OR AS DIRECTED BY THE ENGINEER.
4. REMOVE WITHIN ONE YEAR.

STEEL POST SIZING

| CALIPER | STEEL POST TYPE | A | B | C | D |
|-----------------------|--|--------|------------|-------|-------|
| LESS THAN 4 INCHES | HOT-ROLLED STEEL FENCE POST (MnDOT 3403) OR APPROVED EQUAL. | 7'-0" | 3'-0" MIN. | 4'-0" | 3'-0" |
| GREATER THAN 4 INCHES | 10', 2.2 LB. FLANGED CHANNEL SIGN POST (MnDOT 3401) OR APPROVED EQUAL. | 10'-0" | 4'-0" MIN. | 6'-0" | 5'-0" |

STAKING AND GUYING

(MnDOT 2571.3I.1)

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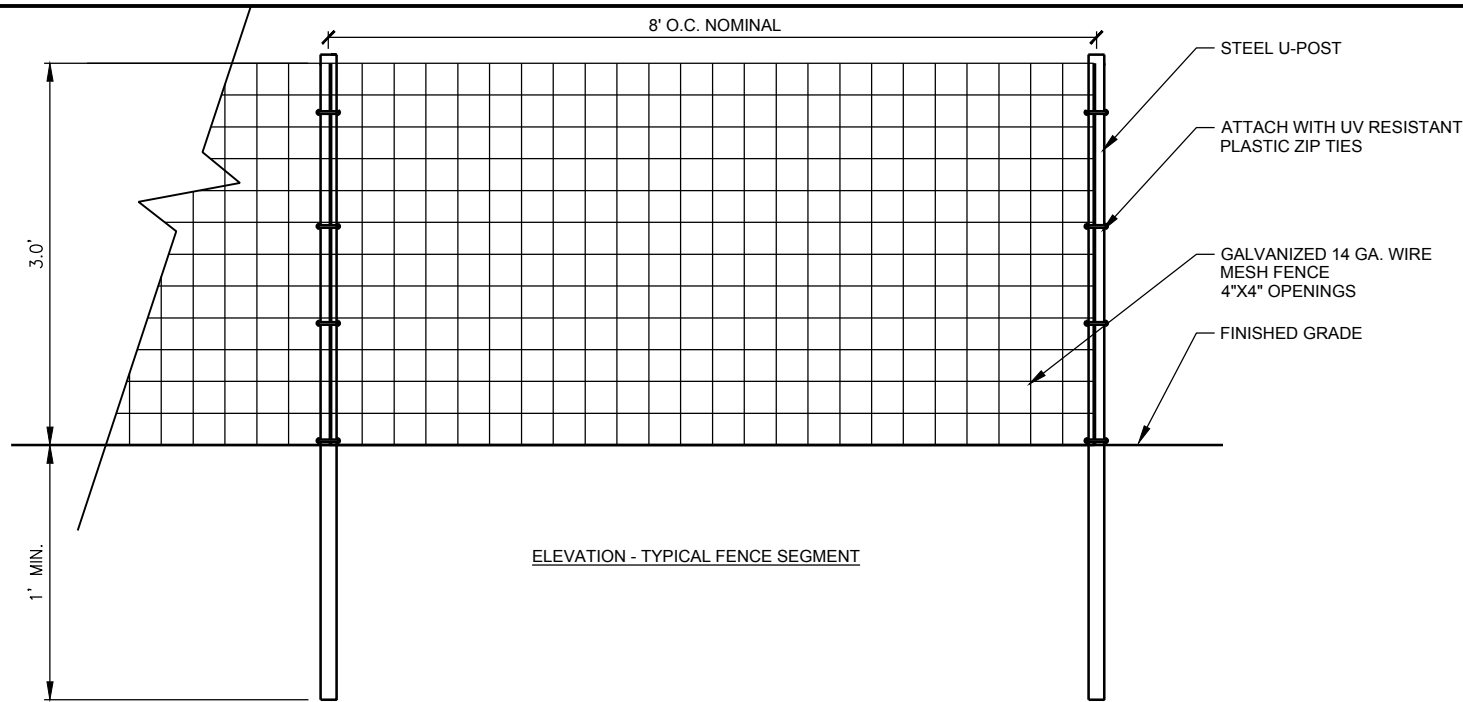
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.
 Print Name: SEAN JERGENS
 Date: / / License # 47256

DRAWN BY
AVD
 DESIGNED BY
AVD
 CHECKED BY
SCJ
 COMM. NO. 13385

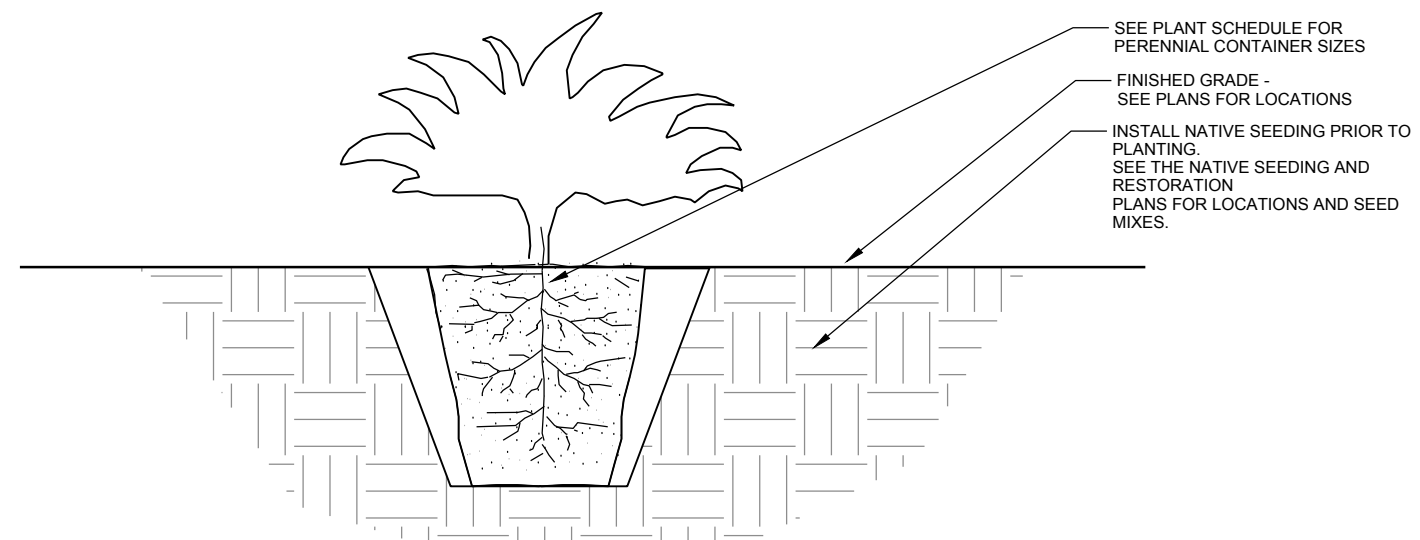


ST HUBERT SCHOOL PROJECT
 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

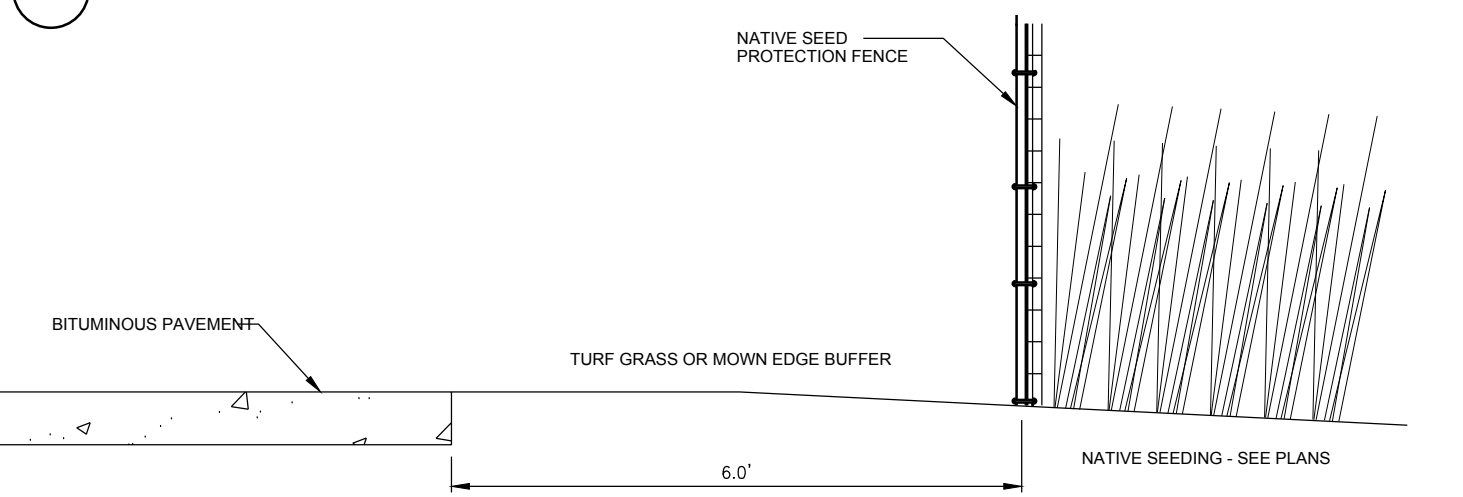
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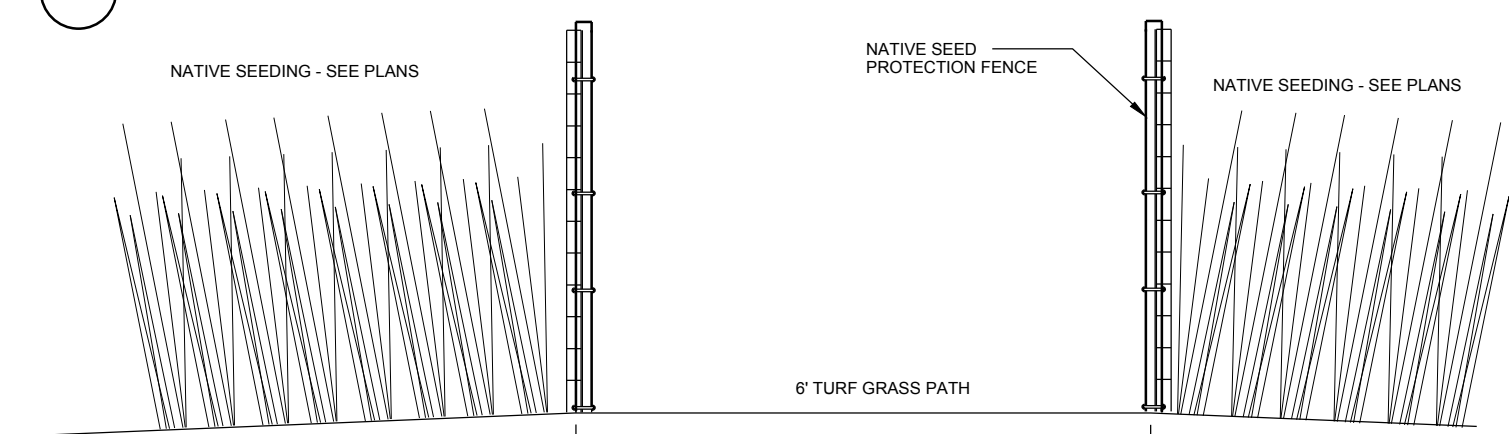
1 NATIVE SEED PROTECTION FENCE - ELEVATION VIEW



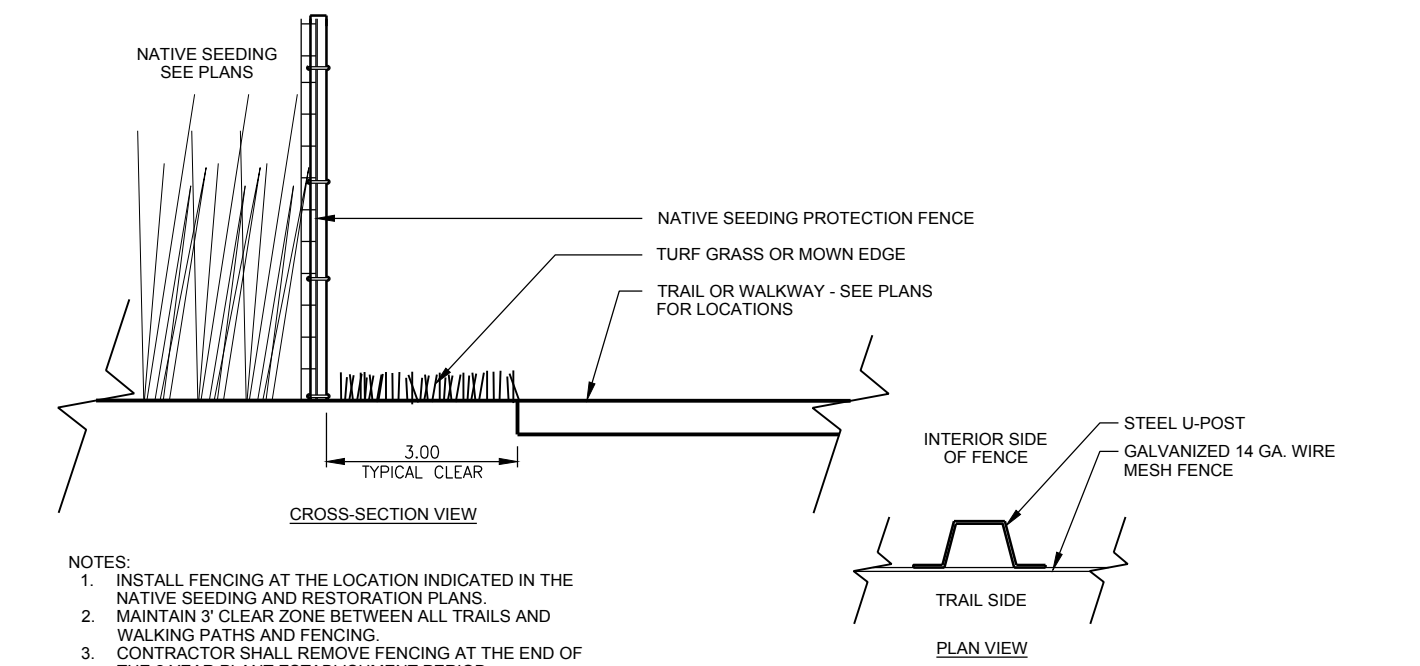
2 RAIN GARDEN PLANTING DETAIL



3 TYPICAL PAVEMENT EDGE CONDITION



4 TYPICAL MOWN PATH DETAIL



5 NATIVE SEED PROTECTION FENCE - SECTION VIEW

6 NATIVE SEED PROTECTION FENCE - PLAN VIEW

- NOTES:
1. INSTALL FENCING AT THE LOCATION INDICATED IN THE NATIVE SEEDING AND RESTORATION PLANS.
 2. MAINTAIN 3' CLEAR ZONE BETWEEN ALL TRAILS AND WALKING PATHS AND FENCING.
 3. CONTRACTOR SHALL REMOVE FENCING AT THE END OF THE 2 YEAR PLANT ESTABLISHMENT PERIOD.

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.
 Print Name: SEAN JERGENS
 Date --/--/-- License # 47256

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AVD
 DESIGNED BY
AVD
 CHECKED BY
SCJ
 COMM. NO. 13385



ST HUBERT SCHOOL PROJECT
 LANDSCAPE DETAILS
 CHANHASSEN, MINNESOTA

SHEET
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OF
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February 25, 2021

Claire Bleser
District Administrator
Riley Purgatory Bluff Creek Watershed District
18681 Lake Drive E.
Chanhassen, Minnesota 55317

Dear Claire:

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

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

Sincerely,

REDPATH AND COMPANY, LTD.

A handwritten signature in black ink that reads "Mark Gibbs".

Mark C. Gibbs, CPA
Enclosure



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

Accountant's Opinion

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

Reporting Process

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

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

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

REDPATH AND COMPANY, LTD.

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

St. Paul, Minnesota
February 25, 2021

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Treasurers Report

January 31, 2021

REPORT INDEX

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

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Cash Disbursements

January 31, 2021

Accounts Payable:

| <u>Check #</u> | <u>Payee</u> | <u>Amount</u> |
|--------------------------------|---------------------------------------|-----------------------------------|
| 5504 | Barr Engineering | \$81,252.75 |
| 5505 | B9 Polar Waters, LLC | 6,897.11 |
| 5506 | CenterPoint Energy | 428.65 |
| 5507 | CenturyLink | 116.04 |
| 5508 | City of Chanhassen | 9.82 |
| 5509 | Chanhassen DMV | 1,800.76 |
| 5510 | Coverall of the Twin Cities | 316.76 |
| 5511 | Dodge of Burnsville | 26,781.00 |
| 5512 | ECM Publishers, Inc. | 309.40 |
| 5513 | Fairway Woods Condominium Association | 20,000.00 |
| 5514 | Fe Security, LLC | 321.37 |
| 5515 | HealthPartners | 6,733.48 |
| 5516 | Amy Herbert | 1,095.00 |
| 5517 | Iron Mountain | 162.57 |
| 5518 | Metro Sales, Inc. | 311.20 |
| 5519 | Principal Life Insurance Company | 404.01 |
| 5520 | ProTech | 177.37 |
| 5521 | Redpath & Company | 2,742.25 |
| 5522 | Smith Partners | 12,452.26 |
| 5523 | SRF Consulting Group, Inc. | 9,327.16 |
| 5524 | Wenck, Inc. | 2,290.28 |
| 5525 | What Works, Inc. | 2,047.50 |
| 5526 | Xcel Energy | 435.11 |
| 5527 | Dorothy E. Pedersen | 2,526.37 |
| Total Accounts Payable: | | <u><u>\$178,938.22</u></u> |

Payroll Disbursements:

| | |
|-------------------------------------|----------------------------------|
| Payroll Processing Fee | 321.90 |
| Employee Salaries | 20,503.32 |
| Employer Payroll Taxes | 1,282.59 |
| Employer Benefits (H.S.A. Match) | 600.00 |
| Employee Benefit Deductions | (822.54) |
| Staff Expense Reimbursements | 156.45 |
| PERA Match | 3,021.23 |
| Total Payroll Disbursements: | <u><u>\$25,062.95</u></u> |

| | |
|-------------------------------------|----------------------------------|
| VISA - 01/17/21 | 7,394.09 |
| January, 2021 Expenses paid 2/3/21: | 24,661.95 |
| Less 2020 Expenses: | (9,920.46) |
| Total: | <u><u>\$22,135.58</u></u> |

TOTAL DISBURSEMENTS: **\$226,136.75**

Memos

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

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Fund Performance Analysis - Table 1

January 31, 2021

| | 2021 Budget | Fund Transfers | 2021 Budget | Current Month | Year-to-Date | Year-to Date Percent of Budget |
|--|-----------------------|----------------|-----------------------|-----------------------|-----------------------|-----------------------------------|
| REVENUES | | | | | | |
| Plan Implementation Levy | \$3,575,000.00 | - | \$3,575,000.00 | - | - | 0.00% |
| Permit | 25,000.00 | - | 25,000.00 | 200.00 | 200.00 | 0.80% |
| Grant Income | 272,580.00 | - | 272,580.00 | - | - | 0.00% |
| Investment Income | 30,000.00 | - | 30,000.00 | - | - | 0.00% |
| Past Levies | 3,204,427.00 | - | 3,204,427.00 | - | - | 0.00% |
| Partner Funds | 451,000.00 | - | 451,000.00 | - | - | 0.00% |
| TOTAL REVENUE | \$7,558,007.00 | - | \$7,558,007.00 | \$200.00 | \$200.00 | 0.00% |
| EXPENDITURES | | | | | | |
| Administration | | | | | | |
| Audit | \$15,000.00 | - | \$15,000.00 | - | - | 0.00% |
| Accounting (and Audit) | \$31,000.00 | - | 31,000.00 | 3,064.15 | 3,064.15 | 9.88% |
| Advisory Committees | 7,000.00 | - | 7,000.00 | - | - | 0.00% |
| Insurance and bonds | 18,000.00 | - | 18,000.00 | 414.00 | 414.00 | 2.30% |
| Engineering Services | 112,000.00 | - | 112,000.00 | 11,395.50 | 11,395.50 | 10.17% |
| Legal Services | 84,000.00 | - | 84,000.00 | 5,763.69 | 5,763.69 | 6.86% |
| Manager Per Diem/Expense | 30,000.00 | - | 30,000.00 | 625.00 | 625.00 | 2.08% |
| Dues and Publications | 16,000.00 | - | 16,000.00 | 8,157.00 | 8,157.00 | 50.98% |
| Office Cost | 190,000.00 | - | 190,000.00 | 16,918.59 | 16,918.59 | 8.90% |
| Permit Review and Inspection | 140,000.00 | - | 140,000.00 | 11,599.18 | 11,599.18 | 8.29% |
| Professional Services | 10,000.00 | - | 10,000.00 | 3,022.50 | 3,022.50 | 30.23% |
| Recording Services | 15,000.00 | - | 15,000.00 | 1,665.00 | 1,665.00 | 11.10% |
| Staff Cost | 802,054.00 | - | 802,054.00 | 31,668.70 | 31,668.70 | 3.95% |
| Subtotal | \$1,470,054.00 | - | \$1,470,054.00 | \$94,293.31 | \$94,293.31 | 6.41% |
| Programs and Projects | | | | | | |
| District Wide | | | | | | |
| 10-year Management Plan | \$10,000.00 | - | \$10,000.00 | \$1,584.00 | \$1,584.00 | 15.84% |
| AIS Inspection and early response | 85,000.00 | - | 85,000.00 | - | - | 0.00% |
| Cost-Share/Stewardship Grant | 346,735.00 | - | 346,735.00 | 21,459.26 | 21,459.26 | 6.19% |
| Data Collection and Monitoring | 193,000.00 | - | 193,000.00 | 44,392.41 | 44,392.41 | 23.00% |
| Community Resiliency | 111,058.00 | - | 111,058.00 | 1,390.00 | 1,390.00 | 1.25% |
| Education and Outreach | 100,834.00 | - | 100,834.00 | 2,267.36 | 2,267.36 | 2.25% |
| Plant Restoration - U of M | 61,613.00 | - | 61,613.00 | - | - | 0.00% |
| Repair and Maintenance Fund * | 212,540.00 | - | 212,540.00 | 170.00 | 170.00 | 0.08% |
| Wetland Management* | 111,248.00 | - | 111,248.00 | 13,156.50 | 13,156.50 | 11.83% |
| Groundwater Conservation* | 229,444.00 | - | 229,444.00 | - | - | 0.00% |
| Lake Vegetation Implementation | 83,083.00 | - | 83,083.00 | 2,290.28 | 2,290.28 | 2.76% |
| Opportunity Project* | 317,480.00 | - | 317,480.00 | - | - | 0.00% |
| Stormwater Ponds - U of M | 67,164.00 | - | 67,164.00 | - | - | 0.00% |
| Hennepin County Chloride Initiative | 92,971.00 | - | 92,971.00 | - | - | 0.00% |
| Lower Minnesota Chloride Cost-Share | 217,209.00 | - | 217,209.00 | - | - | 0.00% |
| Subtotal | \$2,239,379.00 | - | \$2,239,379.00 | \$86,709.81 | \$86,709.81 | 3.87% |
| Bluff Creek | | | | | | |
| Bluff Creek Tributary* | \$7,251.00 | - | \$7,251.00 | - | - | 0.00% |
| Wetland Restoration at Pioneer | \$665,285.00 | - | 665,285.00 | 8,457.97 | 8,457.97 | 1.27% |
| Bluff Creek B5 by Galpin | 140,000.00 | - | 140,000.00 | - | - | 0.00% |
| Subtotal | \$812,536.00 | - | 812,536.00 | \$8,457.97 | \$8,457.97 | 1.04% |
| Riley Creek | | | | | | |
| Lake Riley - Alum Treatment* | \$62,885.00 | - | \$62,885.00 | - | - | 0.00% |
| Rice Marsh Lake in-lake phosphorus load | 45,636.00 | - | 45,636.00 | - | - | 0.00% |
| Rice Marsh Lake Water Quality Improvement Phase 1 | 634,147.00 | - | 634,147.00 | 452.00 | 452.00 | 0.07% |
| Riley Creek Restoration (Reach E and D3) | 107,047.00 | - | 107,047.00 | 362.00 | 362.00 | 0.34% |
| Upper Riley Creek Stabilization | 902,025.00 | - | 902,025.00 | 3,126.00 | 3,126.00 | 0.35% |
| Middle Rice Creek | 192,363.00 | - | 192,363.00 | 7,608.00 | 7,608.00 | 3.96% |
| Lake Ann Wetland Restoration | 50,000.00 | - | 50,000.00 | - | - | 0.00% |
| St. Hubert Water Quality Project | 147,063.00 | - | 147,063.00 | 9,602.16 | 9,602.16 | 6.53% |
| Subtotal | \$2,141,166.00 | \$0.00 | 2,141,166.00 | \$21,150.16 | \$21,150.16 | 0.99% |
| Purgatory Creek | | | | | | |
| Purgatory Creek Rec Area- Berm/retention area - feasibility/design | \$34,899.00 | - | \$34,899.00 | - | - | 0.00% |
| Lotus Lake in-lake phosphorus load control | 79,225.00 | - | 79,225.00 | - | - | 0.00% |
| Silver Lake Restoration - Feasibility Phase 1 | 207,208.00 | - | 207,208.00 | 12,700.50 | 12,700.50 | 6.13% |
| Scenic Heights | 92,040.00 | - | 92,040.00 | - | - | 0.00% |
| Hyland Lake in-lake phosphorus load control | 20,000.00 | - | 20,000.00 | - | - | 0.00% |
| Duck Lake watershed load | 32,120.00 | - | 32,120.00 | 2,825.00 | 2,825.00 | 8.80% |
| Lotus Lake Kerber Pond | 14,380.00 | - | 14,380.00 | - | - | 0.00% |
| Duck lake Partnership | 235,000.00 | - | 235,000.00 | - | - | 0.00% |
| Subtotal | \$714,872.00 | \$0.00 | \$714,872.00 | \$15,525.50 | \$15,525.50 | 2.17% |
| Reserve | \$180,000.00 | \$0.00 | 180,000.00 | - | - | 0.00% |
| TOTAL EXPENDITURE | \$7,558,007.00 | \$0.00 | \$7,558,007.00 | \$226,136.75 | \$226,136.75 | 2.99% |
| EXCESS REVENUES OVER (UNDER) EXPENDITURES | \$0.00 | \$0.00 | \$0.00 | (\$225,936.75) | (\$225,936.75) | |

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

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Muti-Year Project Performance Analysis - Table 2
December 31, 2020

| Programs and Projects | Total | FUNDING SOURCE | | | Current | Costs | Costs | Total Costs | District's Share | District's Share |
|--|-----------------------|-----------------------|---------------------|---------------------|-----------------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------|
| | Lifetime Budget | District funds | Partner Fund | Grants | Year Budget | Month End | Year-to-Date | to Date | Current Year | Future Years |
| District Wide | | | | | | | | | | |
| Community Resiliency | \$148,000.00 | \$98,000.00 | - | 50,000.00 | \$111,058.00 | \$1,390.00 | \$1,390.00 | \$63,331.07 | \$75,000.00 | 60,000.00 |
| Repair and Maintenance Fund | 277,005.00 | 277,005.00 | - | - | 212,540.00 | 170.00 | 170.00 | 89,635.08 | - | 20,000.00 |
| Wetland Management | 200,000.00 | 200,000.00 | - | - | 111,248.00 | 13,156.50 | 13,156.50 | 126,908.38 | - | 70,000.00 |
| Groundwater Conservation | 180,000.00 | 180,000.00 | - | - | 229,444.00 | - | - | 555.85 | 50,000.00 | 79,000.00 |
| Opportunity Project* | 300,000.00 | 300,000.00 | - | - | 317,480.00 | - | - | 26,165.29 | 50,000.00 | 70,000.00 |
| Stormwater Ponds - U of M | 106,092.00 | 64,092.00 | 42,000.00 | - | 67,164.00 | - | - | 58,927.97 | 20,000.00 | - |
| Hennepin County Chloride Initiative | 120,800.00 | 19,000.00 | - | 101,800.00 | 92,971.00 | - | - | 27,829.77 | - | - |
| Lower Minnesota Chloride Cost-Share | 217,209.00 | 20,000.00 | - | 197,209.00 | 217,209.00 | - | - | - | - | - |
| Subtotal | \$1,549,106.00 | \$1,158,097.00 | \$42,000.00 | \$349,009.00 | \$1,359,114.00 | \$14,716.50 | \$14,716.50 | \$393,353.41 | 195,000.00 | 299,000.00 |
| Bluff Creek | | | | | | | | | | |
| Bluff Creek Tributary* | \$436,750.00 | \$386,750.00 | \$50,000.00 | - | \$7,251.00 | - | - | \$391,498.69 | - | - |
| Wetland Restoration at Pioneer | 857,820.00 | 450,000.00 | - | 407,820.00 | 665,285.00 | 8,457.97 | 8,457.97 | 650,995.13 | 450,000.00 | - |
| Bluff Creek B5 by Galpin | 614,000.00 | 614,000.00 | - | - | 140,000.00 | - | - | - | 140,000.00 | 614,000.00 |
| Subtotal | \$1,908,570.00 | \$1,450,750.00 | \$50,000.00 | \$407,820.00 | \$812,536.00 | 8,457.97 | \$8,457.97 | \$1,042,493.82 | \$590,000.00 | 614,000.00 |
| Riley Creek | | | | | | | | | | |
| Lake Riley - Alum Treatment 1st dose * | \$560,000.00 | \$560,000.00 | - | - | \$62,885.00 | - | - | \$512,114.57 | - | - |
| Rice Marsh Lake in-lake phosphorus load | 150,000.00 | 150,000.00 | - | - | 45,636.00 | - | - | 104,364.65 | - | 170,000.00 |
| Rice Marsh WQ 1 | 300,000.00 | 300,000.00 | - | - | 634,147.00 | 452.00 | 452.00 | 16,304.50 | 350,000.00 | - |
| Riley Creek Restoration (Reach E and D3) * | 2,168,148.00 | 1,615,000.00 | 553,148.00 | - | 107,046.00 | 362.00 | 362.00 | 2,228,219.03 | 40,000.00 | - |
| Upper Riley Creek Stabilization | 950,000.00 | 950,000.00 | - | - | 902,025.00 | 3,126.00 | 3,126.00 | 51,100.52 | 100,000.00 | - |
| Middle Riley Creek | 45,000.00 | - | 45,000.00 | - | 192,363.00 | 7,608.00 | 7,608.00 | 7,608.00 | - | - |
| St Hubert | 178,865.00 | - | 65,000.00 | 113,865.00 | 147,063.00 | 9,602.16 | 9,602.16 | 9,602.16 | 100,000.00 | - |
| Subtotal | \$4,352,013.00 | \$3,575,000.00 | \$663,148.00 | \$113,865.00 | \$2,091,165.00 | \$21,150.16 | \$21,150.16 | \$2,929,313.43 | \$590,000.00 | 170,000.00 |
| Purgatory Creek | | | | | | | | | | |
| Purgatory Creek Rec Area- Berm/retention area - feasibility/design | \$50,000.00 | \$50,000.00 | - | - | \$34,899.00 | - | - | \$15,101.28 | - | - |
| Lotus Lake in-lake phosphorus load control | 345,000.00 | 345,000.00 | - | - | 79,225.00 | - | - | 265,773.75 | - | 345,000.00 |
| Silver Lake Restoration Project WQ1 | 268,013.00 | 268,013.00 | - | - | 207,208.00 | 12,700.50 | 12,700.50 | 73,505.69 | - | - |
| Scenic Heights | 260,000.00 | 165,000.00 | 45,000.00 | 50,000.00 | 92,040.00 | - | - | 207,959.75 | - | - |
| Hyland Lake Internal Load | 150,000.00 | 130,000.00 | 20,000.00 | - | 20,000.00 | - | - | 128,612.41 | 20,000.00 | 150,000.00 |
| Duck Lake watershed load | 220,000.00 | 220,000.00 | - | - | 32,120.00 | 2,825.00 | 2,825.00 | 190,704.01 | - | - |
| Subtotal | \$1,293,013.00 | \$1,178,013.00 | \$65,000.00 | \$50,000.00 | \$465,492.00 | \$15,525.50 | \$15,525.50 | \$881,656.89 | \$20,000.00 | 495,000.00 |
| Total Multi-Year Project Costs | \$9,102,702.00 | \$7,361,860.00 | \$820,148.00 | \$920,694.00 | \$4,728,307.00 | \$59,850.13 | \$59,850.13 | \$5,246,817.55 | \$1,395,000.00 | \$1,578,000.00 |

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

ASSETS

Current Assets

| | |
|-------------------------------|----------------|
| General Checking-Old National | \$2,382,077.56 |
| Checking-Old National/BMW | 23,256.03 |
| Investments-Standing Cash | 3,037,726.78 |
| Investments-Wells Fargo | 996,214.14 |
| Accrued Investment Interest | 7.50 |
| Accounts Receivable | 711.92 |
| Due From Other Governments | 467,280.73 |
| Taxes Receivable-Delinquent | 36,003.36 |
| Pre-Paid Expense | 31,914.23 |
| Security Deposits | 7,244.00 |

Total Current Assets: \$6,982,436.25

LIABILITIES AND CAPITAL

Current Liabilities

| | |
|----------------------------|--------------|
| Accounts Payable | \$397,756.88 |
| Retainage Payable | 12,521.39 |
| Withholding Taxes | 972.26 |
| Permits & Sureties Payable | 659,183.25 |
| Deferred Revenue | 36,003.36 |
| Unearned Revenue | 181,095.00 |

Total Current Liabilities: \$1,287,532.14

Capital

| | |
|----------------------|----------------|
| Fund Balance-General | \$5,920,840.86 |
| Net Income | (225,936.75) |

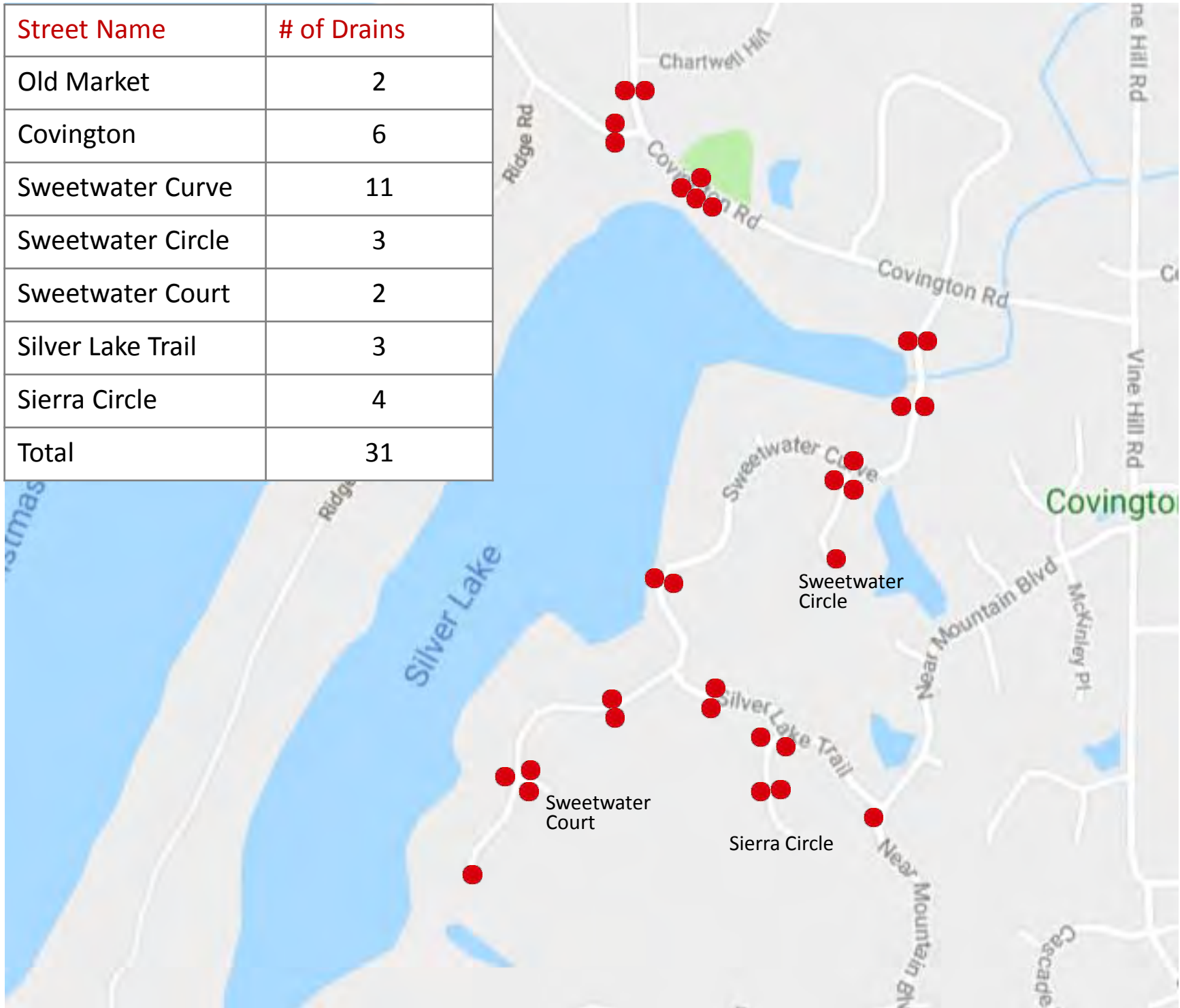
Total Capital \$5,694,904.11

Total Liabilities & Capital \$6,982,436.25

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

| DATE | PURCHASED FROM | AMOUNT | DESCRIPTION | ACCOUNT # | RECEIPT |
|----------|-----------------------------------|-------------------|-------------------------------------|------------|---------|
| 01/19/21 | USPS.Com | 165.00 | Postage | 10-00-4280 | Y |
| 01/19/21 | American Water Resource Assoc. | 849.00 | AWRA Membership | 10-00-4245 | Y |
| 01/21/21 | USPS.Com | 66.00 | Postage | 10-00-4280 | Y |
| 01/21/21 | Verizon Wireless | 430.98 | Telecommunications | 10-00-4240 | Y |
| 01/26/21 | Randy's Sanitation | 104.50 | Trash & Recycling | 10-00-4220 | Y |
| 01/26/21 | 1Password | 29.76 | Monthly Software Subscription | 10-00-4203 | Y |
| 01/29/21 | Target | 23.35 | Office Supplies | 10-00-4200 | Y |
| 02/01/21 | MN Association of Watershed Dist. | 255.00 | Staff Training | 10-00-4265 | Y |
| 02/09/21 | Kowalski's | 3.49 | Staff Cost | 10-00-4321 | Y |
| 02/10/21 | Microsoft | 147.85 | Monthly Software Subscription | 10-00-4203 | Y |
| 02/13/21 | Amzn.Mktp. | 27.03 | Office Supplies | 10-00-4200 | Y |
| | | \$2,101.96 | General Administration Total | | |
| 01/16/21 | Facebook | 23.27 | Software | 20-08-4203 | Y |
| 01/19/21 | Otterbox/Lifeproof | 96.72 | Field Equipment | 20-13-4635 | Y |
| 01/21/21 | Office Depot | 96.76 | DC Equipment | 20-05-4635 | Y |
| 01/26/21 | In Situe Inc. | 151.33 | DC Equipment Maintenance | 20-05-4650 | Y |
| 01/26/21 | Amzn.Mktp. | 28.76 | Education & Outreach Supplies | 20-08-4200 | Y |
| 01/27/21 | Barnes & Notle.com | 17.19 | Education & Outreach Supplies | 20-08-4200 | Y |
| 01/26/21 | Kowalski's | 13.57 | Volunteer Outreach | 20-08-4260 | Y |
| 01/27/21 | The UPS Store | 13.24 | Postage | 20-05-4280 | Y |
| 02/09/21 | Speedway | 27.23 | Fuel | 20-13-4322 | Y |
| 02/10/21 | Hach Company | 2,555.00 | DC Equipment Repairs | 20-05-4635 | Y |
| 02/11/21 | Hach Company | 301.00 | DC Equipment Repairs | 20-05-4635 | Y |
| | | \$3,324.07 | District-Wide Total | | |
| | | \$5,426.03 | GRAND TOTAL | | |

| Street Name | # of Drains |
|-------------------|-------------|
| Old Market | 2 |
| Covington | 6 |
| Sweetwater Curve | 11 |
| Sweetwater Circle | 3 |
| Sweetwater Court | 2 |
| Silver Lake Trail | 3 |
| Sierra Circle | 4 |
| Total | 31 |



Looking southeast at the intersection of Old Market Road + Covington.



Looking southeast on Covington at Silver Lake Park.



Looking south on Sweetwater. North side of weir.



Looking south on Sweetwater. South side of weir.



Looking south on Sweetwater @ intersection with Sweetwater Circle.



The 4th drain shown below is on the cul-de-sac at the end of Sweetwater Circle



Looking south on Sweetwater @ the wetland drains.



1

2



1.



2.

Looking south on Sweetwater @ 19840



Looking west on Sweetwater Court to intersection with Sweetwater.



South end of Sweetwater on cul-de-sac.



Looking east on Silver Lake Trail @ 19655



Silver Lake Trail intersection with Near Mountain Blvd.



Looking south on Sierra Circle from the intersection with Silver Lake Trail.



Looking south on Sierra Circle toward cul-de-sac.

