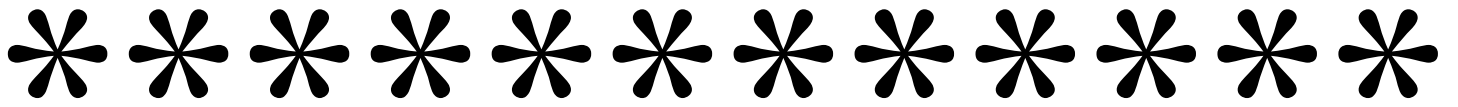


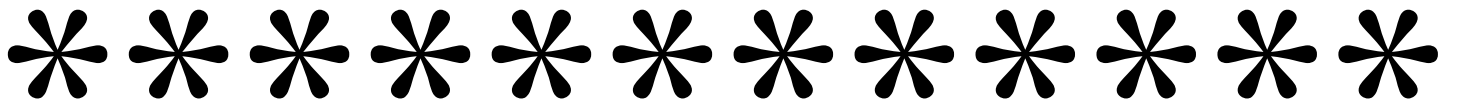


**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **February 2020 Board Packet**



# Agenda





## **Regular Board Meeting Agenda**

Wednesday, February 5, 2020

6:30 P.M.

District Office Board Room  
2665 Noel Drive, Little Canada, MN

1. Call to Order – 6:30 PM
2. **Approval of Agenda**
3. **Consent Agenda**
  - A. Approval of Regular Meeting Minutes January 8, 2020
  - B. District Liability Insurance Coverage Waiver
4. **Treasurer’s Report and Bill List**
5. Visitor Comments (limited to 4 minutes each)
6. Permit Program
  - A. Applications
    - i. **20-03 Vadnais Sports Center Indoor Turf Facility, Vadnais Heights**
    - ii. **20-04 Caves Century Townhomes Water Quality Improvements, Maplewood**
    - iii. **20-05 Frost Lake Elementary Improvements, St. Paul**
    - iv. **20-06 Johnson Parkway Trail, St. Paul**
    - v. **20-07 John Glenn Middle School Addition, Maplewood**
    - vi. **20-08 Meadowood Villas, Woodbury**
    - vii. **19-21 WCA Gold Line Wetland Replacement Plan**
  - B. Enforcement Action Report
7. Stewardship Grant Program
  - A. Applications
    - i. **20-01 CS Finucane, habitat restoration**
    - ii. **20-02 CS Hammes, habitat restoration and rain garden**
    - iii. **20-03 CS Caves Century, underground treatment**
    - iv. **20-04 CS Vadnais Sports Center Turf Facility, porous parking**
  - B. Budget Status Update
8. Action Items
  - A. **Eastside Boys and Girls Club Accept Plans and Solicit Bids**
9. Administrator’s Report

- A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. Administrator's Performance Review
  - D. Wetlands Special Meeting
  - E. Communications and Outreach Coordinator Position Update
  - F. Petition to Repair Ditch 16
  - G. Board of Managers Meeting Minutes
  - H. Battle Creek PFAS Update
  - I. Stormwater Impact Fund Information
10. Project and Program Status Reports
- A. Project Update Memo: Target Stores: North St. Paul and East St. Paul
  - B. New Project Scope Summaries:
    - i. Ames Lake Flood Risk Improvements Feasibility
    - ii. Keller Channel and Phalen Outlet
    - iii. Owasso Basin Bypass Feasibility
    - iv. West Vadnais to South of 694 Conveyance Feasibility
    - v. Willow Creek Flood Risk Improvements Feasibility
  - C. Ongoing Project and Program Updates
    - i. Beltline Resiliency Study
    - ii. Twin Lake Flood Risk Mitigation Feasibility Study
    - iii. FEMA Flood Mapping
    - iv. West Vadnais Lakes Outlet Permitting
    - v. 500-Year Atlas 14 Modeling
    - vi. Hillcrest Golf Course
    - vii. Automated Lake Monitoring Systems
    - viii. Iron Aggregate Pond Research Project
    - ix. Targeted Retrofit Projects
      - x. CIP Maintenance and Repair 2020 Project
      - xi. Beltline/Battle Creek Tunnel Five-Year Inspection
    - xii. Natural Resources Program
    - xiii. Education Program
11. Informational Items
12. Report of Managers

**13. Adjourn**

*\*Items in **bold** signify that an action needs to be taken by the Board.*



# Consent Agenda





**Ramsey-Washington Metro Watershed District  
Minutes of Regular Board Meeting  
January 8, 2020**

The Regular Meeting of January 8, 2020, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

**PRESENT:**

Marj Ebensteiner, President  
Cliff Aichinger, Vice President  
Dianne Ward, Treasurer  
Dr. Pam Skinner, Secretary  
Lawrence Swope, Manager

**ABSENT:**

**ALSO PRESENT:**

Tina Carstens, District Administrator  
Viet-Hanh Winchell, Attorney for District  
Nicole Soderholm, Permit Inspector  
Dave Vlasin, Water Quality Technician  
Bruce Copley, Crestview Addition

Paige Ahlborg, Project Manager  
Brad Lindaman, Barr Engineering  
Bill Bartodziej, Natural Resource Specialist  
Mary Fitzgerald, Permit Inspector  
Stan Martin, Twin Lake Trailer Park  
Burt Johnson, President Twin Lake Association

**1. CALL TO ORDER**

The meeting was called to order by President Ebensteiner at 6:30 p.m.

**2. APPROVAL OF AGENDA**

Manager Ward requested to add Item 9F, Communication Position, to the agenda.

Motion: Lawrence Swope moved, Cliff Aichinger seconded, to approve the agenda as amended. Motion carried unanimously.

**3. CONSENT AGENDA**

A. Approval of Minutes from December 11, 2019

B. Approval of Special Meeting Minutes from December 17, 2019

Nicole Soderholm noted that for the minutes of December 11, 2019, under Permit #19-50, the first paragraph, it should state, "...there is an existing building within the floodplain, and in order to do an expansion, the ~~building~~ proposed addition would not meet the freeboard requirements." Within the same paragraph, it should state, "...staff would not recommend approval if this action would cause adverse impacts to the floodplain..." In the fourth paragraph, it should state, "Nicole Soderholm stated that the existing first floor elevation is ~~939.3~~ 940.4." In the tenth paragraph, it should state, "Nicole Soderholm stated that the parcel boundary on the west side is very close to the building and a berm would require more ~~wetland~~ floodplain fill and could cause additional ~~flood~~ wetland impacts."

Brad Lindaman referenced the December 11, 2019, minutes, line two, of paragraph 16, noted that it should state, "Brad Lindaman stated that this would most likely return to the Board at the February meeting with the preliminary design however easement acquisition and permit approval may extend the process for several months but the information could be distributed before that time for review." He referenced the minutes of December 17, 2019, it should state, "...to reduce the flood risk to habitable structures without purchasing structures. System modifications in the draft study provide one option for mitigating flood risk and in many locations additional feasibility studies would be required to optimize mitigations."

Manager Swope noted that in the December 11, 2019, minutes, under the MAWD Annual Meeting Discussion, the second paragraph, it should state, "...awards of recognition were given out to Watershed Districts that had been in existence for 50 years or more."

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve the consent agenda as amended. Motion carried unanimously.

#### **4. TREASURER'S REPORT AND BILL LIST**

Manager Aichinger asked for additional clarification on fund 531 and asked if that was used for the Aldrich Arena and Frost Avenue projects. Tina Carstens noted that those projects would be funded through the targeted retrofit fund. She noted that there was discussion related to using the 531 fund for the Target projects this year.

Manager Ward asked if subtotals could be added for the different budget categories. Tina confirmed that could be added to the document.

Manager Ward asked for what caused the overage on the Keller Creek project. Bill Bartodziej stated that Ramsey County will be reimbursing the District for some of the costs of the Wetland A restoration, which will bring some of that cost down. He believed the reimbursement amount is \$25,000 which will offset the \$15,000 overage currently shown.

By consensus, the December 8, 2020, bill list was approved as submitted. No motion was made.

#### **5. VISITOR PRESENTATIONS**

Bruce Copley stated that a group of residents submitted comments related to the draft Beltline Study. He stated that the residents appreciate the opportunity to provide their comments and feel that the study is important and relevant. He stated that one piece of the study provided additional detail on the seasonal pumping of West Vadnais Lake, and noted that it appears that there would be an advantage to the Crestview residents to pump water out of West Vadnais Lake. He stated that he would like to see the Board take another serious run at trying to do that, to decrease the water levels. He stated that pumping West Vadnais Lake seems to be more cost effective and provide more protection than the other option, which involved the pipes.

Burt Johnson, 205 Twin Lake Trail, spoke in representation of the Twin Lake Association. He stated that the Association was formed to deal with three issues: to return an outlet to Twin Lake, to reroute West Vadnais, and to improve water quality. He stated that the petition related to ditch 16 stands before the Board and thanks the Board for the action taken at the last meeting. He stated that he would appreciate a more open dialogue between the Association and District staff. He stated that he was unable to attend the draft Beltline Resiliency Study meeting and therefore when he read the information without a presentation, he was unable to fully understand the information and therefore could not provide comments.

Stan Martin, the resident that submitted the petition to the District, noted that he is present to address any questions the Board may have when that agenda item comes forward. President Ebensteiner noted that because that petition is on the agenda, there is consensus of the Board that if there are questions the Board can address those

and have discussion with Mr. Martin. Manager Swope suggested moving the item forward on the agenda to discuss next. President Ebensteiner confirmed that the Board should move that item to be considered next on the agenda.

## **9. ADMINISTRATOR'S REPORT**

### **E. Petition to Repair Ditch 16**

Tina Carstens noted that included in the packet was the petition filed by Mr. Martin, as well as additional information from Tracey Galowitz. Viet-Hanh Winchell stated that the petition is a request to repair, rather than a threat for litigation, which is why the item can appear on the agenda rather than in closed session. She stated that the procedure and timeline was included for review of the petition in that manner and provided a brief summary of that process. Manager Aichinger agreed that the Board should just continue to consider and take action on this matter, rather than requiring involvement from Ramsey County.

Viet-Hanh stated that a feasibility study has already been completed that would address the concerns in the petition. She suggested that a written response be provided to the petition.

Manager Swope asked if Mr. Martin would be satisfied if information is presented and reviewed at either the February or March meeting. Mr. Martin stated that as long as the water from the Frattalone property is taken away from the lake, he would be satisfied. He stated that the intended idea for the petition is to have the Frattalone fields dry and keep the water away from Twin Lake.

Manager Aichinger provided additional details on having the option to have the outlet closed to prevent water from the MnDOT wetland to flow back into Twin Lake. Brad asked if Mr. Martin is asking that no water from the Frattalone property drain to Twin Lake. Mr. Martin clarified that his request would be for water to not flow from the Frattalone property under normal conditions. He acknowledged that under large storm events, water would drain from the Frattalone property into Twin Lake. Brad stated that he would not want to imply that under certain conditions the water would not flow there.

Manager Swope asked how the Board would like to address the petition going forward. Manager Aichinger stated that the petition has been acknowledged, the Feasibility Study has been completed, a concept plan has been reviewed, and the Board is working to develop the specifics (design and operating plan) that will add more detail to the project.

Brad explained that details of the operating plan are important to determine the risk to downstream structures. Manager Aichinger stated that the Board accepts the petition and that action is necessary and will continue to determine the details that will provide the best option in moving forward.

Manager Swope asked if the resident would be in agreement with leaving the petition open, pending the development of the operating plan for the Twin Lakes overflow option. Mr. Martin confirmed he would be in agreement with that. Tina noted that the Board would also need to respond to the petition. President Ebensteiner noted that the purpose tonight is to acknowledge receipt of the petition and provide a response, rather than to discuss the options. Viet-Hanh explained that the response of the Board does not have to be satisfactory to the resident. Manager Ward asked that the response summarize what is already known based on the data already collected and outline the issues still to be decided. She noted that the Board already decided to move forward with option four. Manager Aichinger stated that a timeline for the proposed project could also be included.

Viet-Hanh stated that the scope and depth of the response is the decision of the Board, noting that it could be done in summary form or could include additional detail. President Ebensteiner confirmed the consensus of the Board to respond in written form. Tina suggested that the response outline what is known, the facts the decision is based on, outline the decision made at the last meeting, and outline the timeline and next steps. Viet-Hahn confirmed that she would work with Tina to draft the response letter. Brad stated that staff has begun the design process for the outlet and hoped to present a draft design to the Board at the next meeting.



## 6. PERMIT PROGRAM

### A. Applications

#### Permit #20-01: Carver Elementary School Addition – Maplewood

Nicole Soderholm stated that this would add an addition to the elementary school.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #20-01. Motion carried unanimously.

#### Permit #20-02: Conway Recreation Center Athletic Fields – St. Paul

Nicole Soderholm stated that this will include underground filtration drainage for the synthetic turf with a seasonal dome. Manager Aichinger stated that it appears the turf area drains to the north and does not actually go through the underground filtration system. Nicole provided additional details on the function of the drain tile.

Motion: Lawrence Swope moved, Dianne Ward seconded, to approve Permit #20-02. Motion carried unanimously.

### B. Updates

Nicole noted that she, Tina Carstens and Brandon Barnes met with staff from the City of Woodbury the previous week as the City is declaring a State of Emergency this week for their drinking water related to PFAS contamination. She reported that six drinking water wells were closed and anticipate peak demand issues in the summer months. She stated that the City is working to develop a water treatment system. She stated that the City may move forward with a temporary grading permit prior to the main permit coming forward, and therefore the activity may begin prior to the Board reviewing the permit. Brad Lindaman stated that staff could provide a presentation related to PFAS in the future if desired. Manager Skinner suggested that the presentation be made more specific to this region.

Nicole stated that the wetland replacement line for the gold line should come before the Board at the next meeting.

### C. Monthly Enforcement Report

During December, two notices were sent to address: install/maintain inlet protection (1) and install/maintain perimeter control (1).

### D. Permit Summary 2017 – 2019 and Inspection Presentation

Nicole Soderholm stated that she could address any questions the Board may have related to the information she submitted in the packet. She noted that violations decreased even with the number of inspections increasing. She stated that the increase in the fee also helped to cover the cost of inspections. Manager Skinner stated that perhaps staff include the percentage of permits that experienced violations as well. She noted that would make it easier to compare years, as each year has a different number of permits which can relate to the number of inspections.

Mary Fitzgerald presented to the board on 2019 inspections for both permits and the stewardship grant program.. She provided a summary of the permit inspections that she conducted this past season, provided statistics on private and public projects and the number of inspections completed. She displayed a chart identifying the different violations issued. She noted that the rainfall events made it difficult for some contractors to maintain erosion control measures. She stated that ongoing inspections helps to build the relationship between staff and the contractor and maintain accountability. She stated that she also performed BMP inspections, which inspect permanent stormwater systems for closed permits and reviewed those results. She highlighted some of the improvements that were needed for those projects that received lower grades.

**7. STEWARDSHIP GRANT PROGRAM**

- A. Applications - None.
- B. Budget Status Update - No comments.

**8. ACTION ITEMS**

- A. Board of Managers Annual Meeting

Tina Carstens reviewed the three items that require action by the Board.

Manager Ward stated that she believes that things are working great. She asked if it would be helpful to rotate different officers. President Ebensteiner stated that she has participated on a number of Boards and most do not rotate through officer positions as some people prefer not to hold certain positions. Manager Aichinger stated that things are going well and President Ebensteiner runs a great meeting.

Manager Ward stated that she would like to be Secretary. Manager Swope stated that he would be Treasurer.

Motion: Cliff Aichinger moved, Dr. Pam Skinner seconded, Marj Ebensteiner as President, Cliff Aichinger as Vice President, Lawrence Swope as Treasurer, and Dianne Ward as Secretary for 2020. Motion carried unanimously.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to appoint Barr Engineering, Galowitz Olson, and Redpath and Company to continue as the consultants for 2020.

Further discussion: Brad thanked the Board for their continued confidence with Barr. He noted that Barr staff get excited to work on District projects.

Viet-Hahn Winchell stated that the law firm also enjoys working with the District. Manager Aichinger stated that it is great to see how the law firm has adapted with new staff members.

Motion carried unanimously.

Manager Aichinger referenced the change in newspaper coverage and asked for additional details on the attempt to publish in *Pioneer Press*. Viet-Hahn provided details on a previous attempt to work with *Pioneer Press*. She stated that there is a higher cost to use the *Star Tribune* or *Pioneer Press*. She confirmed that the newspapers as proposed would meet the requirement of the law. Manager Aichinger noted that notices are also listed on the District website.

Motion: Dianne Ward moved, Lawrence Swope seconded, to approve the current Official Bank of Deposit and designate the *White Bear Press*, *Shoreview Press* and *Stillwater Gazette* as the official newspapers and direct staff to investigate the cost of using the *Star Tribune*. Motion carried unanimously.

President Ebensteiner commented that this is a great team of Board members and staff.

**9. ADMINISTRATOR'S REPORT (Continued)**

- A. Meetings Attended - No comments.
- B. Upcoming Meetings and Dates - No comments.

- C. LMCIT Insurance Dividend

Tina Carstens stated that this information was included for informational purposes.

D. City of Maplewood Pond Maintenance Loan

Tina Carstens stated that these three ponds were included in the CIP Maintenance and Repair Project. She stated that the bid prices were good, but the City does not have the funds available to complete all of the work this year and therefore is asking the District to fund the work with the City reimbursing the District in later years. Manager Aichinger stated that the City would basically be committing \$100,000 per year to the District to pay for these three pond projects. He asked if there would be additional maintenance on ponds needed during those future years and whether the City budget would be increased to cover the additional maintenance expenses that would occur. Tina stated that she is uncertain the plans of the City if there are additional maintenance needs in the next two years.

Manager Swope stated that the work on these ponds is needed and therefore it would be in the best interest to complete this work now, with the City paying back the additional funds in the next few years. Manager Aichinger agreed that the District has a good relationship with Maplewood, and this would help to ensure the necessary work is completed.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve the Joint Powers Agreement with the City of Maplewood for pond dredging. Motion carried unanimously.

E. ~~Petition to Repair Ditch 16~~ (discussed earlier in the agenda)

F. Communication Position

Tina Carstens stated that this week she posted the position description to two different job boards and also forward to different agencies that could assist in posting the position. She noted that the position will also be listed on the District website. Manager Ward stated that she attempted to find the draft Beltline Study on the District website, which was very difficult to find. She noted that some other information seems out of date. She suggested that perhaps a contractor be hired to make the website more up to date and accessible, if the position is not soon filled. Manager Swope stated that a communications person may not have expertise in website updating and perhaps staff should investigate the cost of a consultant to update the information and make it more accessible. Tina confirmed that staff could look into that.

**10. PROJECT AND PROGRAM STATUS REPORTS**

A. New Project Memo: Beltline and Battle Creek Pipe Inspection

Brad Lindaman confirmed that they are at the five-year point for inspections. He noted that there would be a little less effort for this inspection compared to the last inspection. He summarized some of the safety elements required for staff. He noted that a summary of the report would be provided and would be used for documentation and identification of when certain issues may need repair. President Ebensteiner noted that the large and secondary repairs have been completed. Brad reported that staff is hoping to find very little major repair needs during this inspection because of the repair work that was completed after the last round of inspections.

B. Ongoing Project and Program Updates

i. Twin Lake Emergency Response Management 2019

Manager Ward commented that the West Vadnais Lake bypass pumping system has been setup and asked if some West Vadnais water could be pumped now to bring the water down before the larger solutions. Brad Lindaman stated that the purpose of the bypass pumping was to take the overflow and prevent it from getting to Twin Lake because of the low home that could be impacted. He stated that would be the purview of the Board as to whether to go down that path. He noted that the District would have to talk to MnDOT as that is not the purpose of that pipe. He stated that his comments would only be speculation as to the degree of benefit that would be provided but believed that the benefit to West Vadnais would be small and perhaps not even noticeable. Manager Aichinger stated that with snowmelt and spring rain, that could easily put the water that was pumped out back with no effort. Tina stated that staff could complete some calculations and could also provide a cost estimate.

ii. Beltline Resiliency Study

Manager Swope stated that staff was going to develop a process for potential review of the draft study and asked the next step.

Tina Carstens stated that there will be a similar presentation as was given to the board, given to city, county, and agency stakeholders on January 17<sup>th</sup>. She proposed to end the comment period at the end of January. She confirmed that she would put that deadline on the District website. She stated that the report would eventually be finalized, but would spawn additional studies going forward.

Manager Swope stated that he would want to ensure that people understand that the options in the study may not move forward based on the board receiving additional information and feasibility studies being completed.

Lawrence Manager Swope referenced the Keller and Phalen adjustments and asked for additional information on West Vadnais. Brad noted that additional study for West Vadnais outlet would be needed related to the specifics and sizing of the pipe that would be required. He stated that he would recommend a Feasibility Study to determine challenges that may in the way of accomplishing that action. He stated that a cost benefit analysis would be provided in the Feasibility Study. He stated that was not originally planned to come forward in February but that could be changed, if desired. He noted that was not one of the top three studies (Owasso Basin, Willow Creek and Ames Lake) listed as priority. He stated that originally three scopes of work, or elements of the Resiliency Study, for continued analysis along with the scope of work for the changes to the Keller and Phalen outlet structures were planned to come forward to the Board in February. Brad noted both the constant flow and the off-season pumping options would require a larger pipe through 694.

The consensus of the Board was to direct staff to bring forward a scope of work for the West Vadnais options as well. Manager Skinner stated that she does not have any problem including this scope, but does not want to see the Board forgetting about the rest of the District that is at risk just because of some squeaky wheels. Brad noted that he would bring forward the scope for four Feasibility Studies and one design project at the February meeting.

Manager Aichinger stated that perhaps it would make sense to have more localized meetings on the draft Beltline Study further along in the process in order to gather better input. Manager Skinner agreed that would be a good idea. Tina Carstens noted that also Ramsey County Commissioner is going to hold public meetings in different flood prone areas and perhaps that would be a good opportunity to present that information.

iii. Point Douglas Drive Study

Tina Carstens noted that this project was requested by the City of St. Paul.

iv. Twin Lake Flood Risk Mitigation Feasibility Study

v. FEMA Flood Mapping

vi. West Vadnais Lakes Outlet Permitting

Manager Swope asked when the stakeholder meeting would be and who the stakeholders are. Tina Carstens stated that meeting is taking place this coming Friday and reviewed the stakeholders involved. Manager Ward asked the next step. Tina stated that the meeting would provide feedback and the District would continue working on the permitting process. Brad Lindaman noted that the design work for lowering the outlet has begun, in anticipation that support would be gained from the stakeholders.

vii. 500-Year Atlas 14 Modeling

Manager Swope asked if there could be a presentation about Atlas 14. He asked how Atlas 14 works. Manager Aichinger noted that it would be a fairly simple presentation that the Board has received in the past but acknowledged that most likely occurred prior to the newer members of the Board joining. Brad Lindaman confirmed that staff could provide a brief presentation, as it is important to understand how the data was gathered and how it is used. Manager Aichinger noted that a written distribution of the information would probably suffice.

- viii. Hillcrest Golf Course
- ix. Automated Lake Monitoring Systems
- x. Iron Aggregate Pond Research Project
- xi. Targeted Retrofit Projects
- xii. Kohlman Lake Macrophyte Management
- xiii. CIP Maintenance and Repair 2020 Project
- xiv. New Technology Review: BIPOD Stormwater Planter and Nutrient Removal Device

Manager Aichinger commented that the pods are interesting but expensive.

- xv. Natural Resources Program
- xvi. Education Program

**11. INFORMATIONAL ITEMS** - No comments.

**12. REPORTS OF MANAGERS** - No comments.

**13. ADJOURN**

Motion: Cliff Aichinger moved, Dianne Ward seconded, to adjourn the meeting at 9:03 p.m. Motion carried unanimously.

Respectfully submitted,

Dianne Ward, Secretary

DRAFT

# Consent Agenda Item

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**Board Meeting Date:** February 5, 2020

**Agenda Item No.:** 3B

**Preparer:** Tina Carstens, Administrator

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**Item Description:** District Liability Insurance Coverage Waiver

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**Background:**

As required by our annual insurance renewal application, we need to stipulate whether the District waives the tort liability limits set by the legislature for government agencies. The District has historically chosen to not waive the liability limits, which limits our exposure to liability claims to the legislative limit of \$500,000 per individual or \$1,500,000 in total. I have completed the form accordingly and attached it to this request for board action.

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**Applicable District Goal and Action Item:**

**Goal: Manage effectively:** The District will operate in a manner that achieves its mission while adhering to its core principles.

**Action Item:** Follow all legal requirements applicable to watershed districts.

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**Staff Recommendation:**

Approve the Liability Coverage Waiver Form indicating the District does not waive the monetary limits on municipal tort liability.

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**Financial Implications:**

There are no budget implications for this action at this time.

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**Board Action Requested:**

Approve the Liability Coverage Waiver Form indicating the District does not waive the monetary limits on municipal tort liability.



CONNECTING & INNOVATING  
SINCE 1913

**LIABILITY COVERAGE – WAIVER FORM**

**Members who obtain liability coverage through the League of Minnesota Cities Insurance Trust (LMCIT) must complete and return this form to LMCIT before the member’s effective date of coverage. Return completed form to your underwriter or email to [pstech@lmc.org](mailto:pstech@lmc.org).**

*The decision to waive or not waive the statutory tort limits must be made annually by the member’s governing body, in consultation with its attorney if necessary.*

Members who obtain liability coverage from LMCIT must decide whether to waive the statutory tort liability limits to the extent of the coverage purchased. The decision has the following effects:

- *If the member does not waive the statutory tort limits*, an individual claimant could recover no more than \$500,000 on any claim to which the statutory tort limits apply. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would be limited to \$1,500,000. These statutory tort limits would apply regardless of whether the member purchases the optional LMCIT excess liability coverage.
- *If the member waives the statutory tort limits and does not purchase excess liability coverage*, a single claimant could recover up to \$2,000,000 for a single occurrence (under the waive option, the tort cap liability limits are only waived to the extent of the member’s liability coverage limits, and the LMCIT per occurrence limit is \$2,000,000). The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to \$2,000,000, regardless of the number of claimants.
- *If the member waives the statutory tort limits and purchases excess liability coverage*, a single claimant could potentially recover an amount up to the limit of the coverage purchased. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to the amount of coverage purchased, regardless of the number of claimants.

Claims to which the statutory municipal tort limits do not apply are not affected by this decision.

LMCIT Member Name: Ramsey-Washington, Metro Watershed District

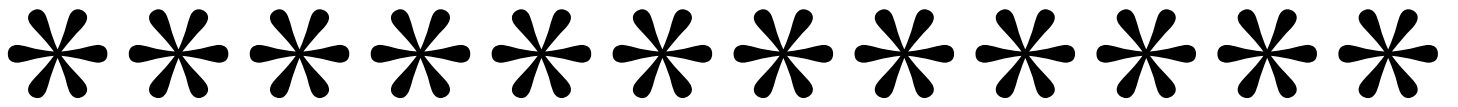
Check one:

The member **DOES NOT WAIVE** the monetary limits on municipal tort liability established by Minn. Stat. § 466.04.

The member **WAIVES** the monetary limits on municipal tort liability established by Minn. Stat. § 466.04, to the extent of the limits of the liability coverage obtained from LMCIT.

Date of member’s governing body meeting: February 5, 2020

Signature: Tina Causton Position: Administrator



# Bill List





RWMWD BUDGET STATUS REPORT  
 Administrative & Program Budget  
 Fiscal Year 2020  
 1/31/2020

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$8,500.00	-	-	-	\$8,500.00	0.00%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	254.50	254.50	3,245.50	7.27%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$15,500.00</b>	<b>\$0.00</b>	<b>\$254.50</b>	<b>\$254.50</b>	<b>\$15,245.50</b>	<b>1.64%</b>
Employees	Staff salary/taxes/benefits	4010	1,450,000.00	-	107,373.07	107,373.07	1,342,626.93	7.41%
	Employee expenses	4020	10,000.00	-	189.46	189.46	9,810.54	1.89%
	District training & education	4350	25,000.00	-	-	-	25,000.00	0.00%
	<b>Sub-Total: Employees:</b>		<b>\$1,485,000.00</b>	<b>\$0.00</b>	<b>\$107,562.53</b>	<b>\$107,562.53</b>	<b>\$1,377,437.47</b>	<b>7.24%</b>
Administration/Office	GIS system maint. & equip.	4170	15,000.00	-	-	-	15,000.00	0.00%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	-	5,000.00	0.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	57.48	57.48	7,942.52	0.72%
	Office supplies	4320	5,000.00	-	247.52	247.52	4,752.48	4.95%
	IT/Internet/Web Site/Software Lic.	4325	55,000.00	-	4,163.00	4,163.00	50,837.00	7.57%
	Postage	4330	5,000.00	-	-	-	5,000.00	0.00%
	Printing/copying	4335	8,000.00	-	-	-	8,000.00	0.00%
	Dues & publications	4338	11,000.00	-	7,500.00	7,500.00	3,500.00	68.18%
	Janitorial/Trash Service	4341	15,000.00	-	-	-	15,000.00	0.00%
	Utilities/Bldg.Contracts	4342	20,000.00	-	800.81	800.81	19,199.19	4.00%
	Bldg/Site Maintenance	4343	200,000.00	-	-	-	200,000.00	0.00%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	40,000.00	-	-	-	40,000.00	0.00%
	Office equipment	4703	150,000.00	-	-	-	150,000.00	0.00%
	Vehicle lease, maintenance	4810-40	43,000.00	-	96.25	96.25	42,903.75	0.22%
	<b>Sub-Total: Administration/Office:</b>		<b>\$588,000.00</b>	<b>\$0.00</b>	<b>\$12,865.06</b>	<b>\$12,865.06</b>	<b>\$575,134.94</b>	<b>2.19%</b>
Consultants/Outside Services	Auditor/Accounting	4110	60,000.00	-	-	-	60,000.00	0.00%
	Engineering-administration	4121	93,000.00	-	4,403.90	4,403.90	88,596.10	4.74%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	55,000.00	-	2,924.00	2,924.00	52,076.00	5.32%
	Engineering-permit review	4124	55,000.00	-	2,778.50	2,778.50	52,221.50	5.05%
	Project Feasibility Studies	4129	570,000.00	-	7,655.00	7,655.00	562,345.00	1.34%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	2,531.00	2,531.00	37,469.00	6.33%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$933,000.00</b>	<b>\$0.00</b>	<b>\$20,292.40</b>	<b>\$20,292.40</b>	<b>\$912,707.60</b>	<b>2.17%</b>
Programs	Educational programming	4370	60,000.00	-	1,468.85	1,468.85	58,531.15	2.45%
	Communications & Marketing	4371	25,000.00	-	-	-	25,000.00	0.00%
	Events	4372	50,000.00	-	537.00	537.00	49,463.00	1.07%
	Water QM-Engineering	4520-30	185,000.00	-	4,144.02	4,144.02	180,855.98	2.24%
	Project operations	4650	160,000.00	-	229.43	229.43	159,770.57	0.14%
	SLMP/TMDL Studies	4661	173,000.00	-	-	-	173,000.00	0.00%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	282.73	282.73	139,717.27	0.20%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	14,521.89	14,521.89	52,478.11	21.67%
	Research Projects	4695	95,000.00	-	-	-	95,000.00	0.00%
	Health and Safety Program	4697	3,000.00	-	-	-	3,000.00	0.00%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
	<b>Sub-Total: Programs:</b>		<b>\$968,000.00</b>	<b>\$0.00</b>	<b>\$21,183.92</b>	<b>\$21,183.92</b>	<b>\$946,816.08</b>	<b>2.19%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$3,989,500.00</b>	<b>\$0.00</b>	<b>\$162,158.41</b>	<b>\$162,158.41</b>	<b>\$3,827,341.59</b>	<b>4.06%</b>
CIP's	CIP Project Repair & Maintenance	516	1,115,000.00	-	7,711.00	7,711.00	1,107,289.00	0.69%
	Targeted Retrofit Projects	518	1,012,000.00	-	18,372.30	18,372.30	993,627.70	1.82%
	Flood Risk Reduction Fund	520	4,000,000.00	-	50,383.45	50,383.45	3,949,616.55	1.26%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	400,074.00	-	276,886.63	276,886.63	123,187.37	69.21%
	Stewardship Grant Program Fund	528-529	1,000,000.00	-	4,014.50	4,014.50	995,985.50	0.40%
	Impervious Surface Volume Reduction Opportunity	531	1,600,000.00	-	-	-	1,600,000.00	0.00%
	Wakefield Park Project	553	100,000.00	-	-	-	100,000.00	0.00%
	District Office Bond Payment	585	194,885.00	-	120,358.21	120,358.21	74,526.79	61.76%
<b>CIP BUDGET TOTAL</b>			<b>\$9,421,959.00</b>	<b>\$0.00</b>	<b>\$477,726.09</b>	<b>\$477,726.09</b>	<b>\$8,944,232.91</b>	<b>5.07%</b>
<b>TOTAL BUDGET</b>			<b>\$13,411,459.00</b>	<b>\$0.00</b>	<b>\$639,884.50</b>	<b>\$639,884.50</b>	<b>\$12,771,574.50</b>	<b>4.77%</b>

Current Fund Balances:

Fund:	Unaudited Beginning Balance @ 12/31/19	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 01/31/20
101 - General Fund	\$4,711,708.79	-	2,275.43	162,158.41	162,158.41	4,551,825.81
516 - CIP Project Repair & Maintenance	1,157,461.08	-	-	7,711.00	7,711.00	1,149,750.08
518 - Targeted Retrofit Projects	(106,911.38)	-	-	18,372.30	18,372.30	(125,283.68)
520 - Flood Damage Reduction Fund	2,455,221.64	-	-	50,383.45	50,383.45	2,404,838.19
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	1,343,334.81	-	-	276,886.63	276,886.63	1,066,448.18
528/529 - Stewardship Grant Program Fund	779,310.47	-	-	4,014.50	4,014.50	775,295.97
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1,484,215.00
553 - Wakefield Park Project	977,803.98	-	-	-	-	977,803.98
580 - Contingency Fund	696,718.06	-	-	-	-	696,718.06
585 - Certificates of Participation	128,124.59	-	-	120,358.21	120,358.21	7,766.38
<b>Total District Fund Balance</b>	<b>\$13,626,987.04</b>	<b>\$0.00</b>	<b>\$ 2,275.43</b>	<b>\$ 639,884.50</b>	<b>\$639,884.50</b>	<b>\$12,989,377.97</b>

RWMWD BUDGET STATUS REPORT  
 Administrative & Program Budget  
 Fiscal Year 2019  
 12/31/2019 - Updated 1/28/20

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$6,500.00	-	2,150.00	7,572.50	(\$1,072.50)	116.50%
	Manager expenses	4360	3,500.00	-	1,318.47	2,222.93	1,277.07	63.51%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	374.53	3,669.07	(169.07)	104.83%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$13,500.00</b>	<b>\$0.00</b>	<b>\$3,843.00</b>	<b>\$13,464.50</b>	<b>\$35.50</b>	<b>99.74%</b>
Employees	Staff salary/taxes/benefits	4010	1,385,000.00	-	101,561.20	1,327,579.96	57,420.04	95.85%
	Employee expenses	4020	10,000.00	-	562.73	7,526.74	2,473.26	75.27%
	District training & education	4350	25,000.00	-	5,608.57	25,221.93	(221.93)	100.89%
	<b>Sub-Total: Employees:</b>		<b>\$1,420,000.00</b>	<b>\$0.00</b>	<b>\$107,732.50</b>	<b>\$1,360,328.63</b>	<b>\$59,671.37</b>	<b>95.80%</b>
Administration/Office	GIS system maint. & equip.	4170	15,000.00	-	-	2,028.52	12,971.48	13.52%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	2,210.00	2,790.00	44.20%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	361.48	6,442.02	1,557.98	80.53%
	Office supplies	4320	5,000.00	-	433.40	4,987.65	12.35	99.75%
	IT/Internet/Web Site/Software Lic.	4325	45,000.00	-	2,867.75	40,899.80	4,100.20	90.89%
	Postage	4330	10,000.00	-	-	739.86	9,260.14	7.40%
	Printing/copying	4335	8,000.00	-	934.87	6,002.16	1,997.84	75.03%
	Dues & publications	4338	11,000.00	-	144.00	10,097.00	903.00	91.79%
	Janitorial/Trash Service	4341	17,000.00	-	-	5,652.18	11,347.82	33.25%
	Utilities/Bldg.Contracts	4342	20,000.00	-	6,395.12	25,124.69	(5,124.69)	125.62%
	Bldg/Site Maintenance	4343	300,000.00	-	41,139.30	123,367.85	176,632.15	41.12%
	Miscellaneous	4390	5,000.00	-	41.39	541.39	4,458.61	10.83%
	Insurance	4480	35,000.00	-	-	36,479.00	(1,479.00)	104.23%
	Office equipment	4703	40,000.00	-	630.96	29,853.11	10,146.89	74.63%
	Vehicle lease, maintenance	4810-40	43,000.00	-	29,427.39	36,802.22	6,197.78	85.59%
	<b>Sub-Total: Administration/Office:</b>		<b>\$570,000.00</b>	<b>\$0.00</b>	<b>\$82,375.66</b>	<b>\$331,227.45</b>	<b>\$238,772.55</b>	<b>58.11%</b>
Consultants/Outside Services	Auditor/Accounting	4110	55,000.00	-	3,949.33	52,394.73	2,605.27	95.26%
	Engineering-administration	4121	93,000.00	-	8,538.42	74,260.22	18,739.78	79.85%
	Engineering-permit I&E	4122	10,000.00	-	52.50	3,076.94	6,923.06	30.77%
	Engineering-eng. review	4123	55,000.00	-	6,098.50	47,186.16	7,813.84	85.79%
	Engineering-permit review	4124	55,000.00	-	5,573.00	38,193.00	16,807.00	69.44%
	Project Feasibility Studies	4129	790,000.00	-	48,866.25	434,793.77	355,206.23	55.04%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	3,564.00	31,589.00	8,411.00	78.97%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$1,148,000.00</b>	<b>\$0.00</b>	<b>\$76,642.00</b>	<b>\$681,493.82</b>	<b>\$466,506.18</b>	<b>59.36%</b>
Programs	Educational programming	4370	60,000.00	-	855.73	16,095.77	43,904.23	26.83%
	Communications & Marketing	4371	25,000.00	-	-	6,000.98	18,999.02	24.00%
	Events	4372	50,000.00	-	-	39,444.98	10,555.02	78.89%
	Water QM-Engineering	4520-30	300,000.00	-	12,228.47	267,018.80	32,981.20	89.01%
	Project operations	4650	160,000.00	-	1,728.24	28,642.41	131,357.59	17.90%
	SLMP/TMDL Studies	4661	68,000.00	-	-	4,115.00	63,885.00	6.05%
	Natural Resources/Keller Creek	4670-72	115,000.00	-	415.75	123,082.65	(8,082.65)	107.03%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	-	46,729.28	20,270.72	69.75%
	Research Projects	4695	115,000.00	-	6,124.00	59,457.09	55,542.91	51.70%
	Health and Safety Program	4697	3,000.00	-	-	1,043.48	1,956.52	34.78%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
	<b>Sub-Total: Programs:</b>		<b>\$973,000.00</b>	<b>\$0.00</b>	<b>\$21,352.19</b>	<b>\$591,630.44</b>	<b>\$381,369.56</b>	<b>60.80%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$4,124,500.00</b>	<b>\$0.00</b>	<b>\$291,945.35</b>	<b>\$2,978,144.84</b>	<b>\$1,146,355.16</b>	<b>72.21%</b>
CIP's	CIP Project Repair & Maintenance	516	1,120,000.00	-	149,837.45	1,075,685.66	44,314.34	96.04%
	Targeted Retrofit Projects	518	978,760.00	-	1,006,432.81	1,299,087.54	(320,327.54)	132.73%
	District Office Building Solar Energy Retrofit	519	-	-	-	25,762.50	-	---
	Flood Damage Reduction Fund	520	2,500,000.00	-	20,261.46	334,527.70	2,165,472.30	13.38%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	399,113.00	-	435.00	397,342.30	1,770.70	99.56%
	Stewardship Grant Program Fund	528-529	1,250,000.00	-	71,747.26	846,247.30	403,752.70	67.70%
	Impervious Surface Volume Reduction Opportunity	531	1,500,000.00	-	-	-	1,500,000.00	0.00%
	Beltline & Battle Creek Tunnel Repair	549	-	-	-	-	-	---
	Frost/Kennard Enhanced WQ BMP	550	-	-	-	-	-	---
	Markham Pond Dredging & Aeration	551	65,000.00	-	28,277.00	39,493.45	25,506.55	60.76%
	Wakefield Park Project	553	1,100,000.00	-	1,598.90	71,482.02	1,028,517.98	6.50%
	Willow Pond CMAC	554	300,000.00	-	25.73	14,396.47	285,603.53	4.80%
	District Office Bond Payment	585	194,885.00	-	-	193,453.76	1,431.24	99.27%
<b>CIP BUDGET TOTAL</b>			<b>\$9,407,758.00</b>	<b>-</b>	<b>\$1,278,615.61</b>	<b>\$4,297,478.70</b>	<b>\$5,136,041.80</b>	<b>45.68%</b>
<b>TOTAL BUDGET</b>			<b>\$13,532,258.00</b>	<b>\$0.00</b>	<b>\$1,570,560.96</b>	<b>\$7,275,623.54</b>	<b>\$6,256,634.46</b>	<b>53.77%</b>

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/18	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 12/31/19
101 - General Fund	\$4,464,553.28	-	3,225,300.35	291,945.35	2,978,144.84	4,711,708.79
516 - CIP Project Repair & Maintenance	951,963.00	-	1,281,183.74	149,837.45	1,075,685.66	1,157,461.08
518 - Targeted Retrofit Projects	994,725.00	-	197,451.16	1,006,432.81	1,299,087.54	(106,911.38)
519 - District Office Building Solar Energy Retrofit	32,805.00	(7,042.50)	-	-	25,762.50	0.00
520 - Flood Damage Reduction Fund	1,823,918.00	-	965,831.34	20,261.46	334,527.70	2,455,221.64
526 - Debt Services-96-97 Beltline/MM/Battle Creek Tunnel Repair	381,949.00	863,674.00	495,054.11	435.00	397,342.30	1,343,334.81
528/529 - Stewardship Grant Program Fund	389,152.00	-	1,236,405.77	71,747.26	846,247.30	779,310.47
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1,484,215.00
549 - Beltline & Battle Creek Tunnel Repair	863,674.00	(863,674.00)	-	-	-	0.00
550 - Frost/Kennard Enhanced WQ BMP	70,017.00	(70,017.00)	-	-	-	0.00
551 - Markham Pond Dredging & Aeration	110,379.00	(79,658.03)	8,772.48	28,277.00	39,493.45	0.00
553 - Wakefield Park Project	1,049,286.00	-	-	1,598.90	71,482.02	977,803.98
554 - Willow Pond CMAC	(44,588.00)	58,984.47	-	25.73	14,396.47	0.00
580 - Contingency Fund	598,985.00	97,733.06	-	-	-	696,718.06
585 - Certificates of Participation	131,513.00	-	190,065.35	-	193,453.76	128,124.59
<b>Total District Fund Balance</b>	<b>\$13,302,546.28</b>	<b>\$0.00</b>	<b>\$ 7,600,064.30</b>	<b>\$ 1,570,560.96</b>	<b>\$7,275,623.54</b>	<b>\$13,626,987.04</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Jan 1, 2020 to Jan 31, 2020**

Check #	Date	Payee ID		Payee	Description	Amount
EFT	01/01/20	met008	Jan 2020	MetLife-Group Benefits	Employee Benefits	\$1,641.57
EFT	01/10/20	hea002	Feb 2020	HealthPartners	Employee Benefits	11,421.64
71288	01/14/20	ada002	2857462	Adam's Pest Control, Inc.	Utilities/Building Contracts	79.00
71289	01/14/20	adv003	00041020	Advantage Signs & Graphics, Inc.	Natural Resources Project	60.00
71290	01/14/20	aws001	S1335957-010120	AWS Service Center	Utilities/Building Contracts	216.29
71291	01/14/20	ben002	92381	Benefit Extras, Inc.	Employee Benefits	765.00
71292	01/14/20	bre003	First Quarter	Bremer Bank	Employee Benefits	7,543.75
71293	01/14/20	fle001	81309	Flemings Auto Service	Vehicle Maintenance	52.70
71294	01/14/20	gil001	188515	Gilbert Mechanical Contractors, Inc.	Water QM Staff	719.98
71295	01/14/20	nor011	6053	Northland Securities, Inc.	Debt Services-Beltline	435.00
71296	01/14/20	pra001	1936502600	Prairie Moon Nursery, Inc.	Construction Imp.-Maint. & Repair	37.50
71297	01/14/20	tes001	S305658-IN	The Tessman Company	Natural Resources Project	213.30
71298	01/14/20	twi003	0120004	Twin Cities Metro Painting, Inc.	Bldg./Site Maintenance	746.00
71299	01/14/20	usb005	403635170	US Bank Equipment Finance	Printing Expense	294.00
71300	01/28/20	ada002	3092178	Adam's Pest Control, Inc.	Utilities/Building Contracts	79.00
71301	01/28/20	ahl001	Jan 2020	Paige Ahlberg	Employee Reimbursement	184.37
71302	01/28/20	att002	287256653401X01252020	AT & T Mobility - ROC	Water QM Staff	80.45
71303	01/28/20	bar001	Dec 2019/Jan 2020	Barr Engineering	December/January Engineering Exp.	82,670.59
71304	01/28/20	bar004	01/23/20	Deborah Barnes	Employee Reimbursement	85.00
71305	01/28/20	blu003	01/23/20	Blue Thumb/Metro Blooms	Outside Program Support	1,250.00
71306	01/28/20	cad001	16617302	Allstream	Water QM Staff	65.18
71307	01/28/20	cit001	007734-001/000	City of Little Canada	Utilities/Building Contracts	109.88
71308	01/28/20	cit011	227817	City of Roseville	IT/Website/Software	4,163.00
71309	01/28/20	com004	01/16/20	Comcast	Utilities/Building Contracts	61.93
71310	01/28/20	don001	Dec 2019/Jan 2020	Matthew Doneux	Employee Reimbursement	186.57
71311	01/28/20	edm001	19-03 CS	Randee Edmundson	Stewardship Grant Fund	200.00
71312	01/28/20	fit002	Jan 2020	Mary Fitzgerald	Employee Reimbursement	76.80
71313	01/28/20	gal001	Jan 2020	Galowitz Olson, PLLC	January Legal Expense	2,976.00
71314	01/28/20	ger003	11/1-12/31/19	Carole Gernes	Employee Reimbursement	6.61
71315	01/28/20	gil001	188872	Gilbert Mechanical Contractors, Inc.	Utilities/Building Contracts	1,086.50
71316	01/28/20	ham002	2020 Membership	Hamline University	Outside Program Support	10,000.00
71317	01/28/20	han008	1110	Hanna Enterprises	Utilities/Building Contracts	855.00
71318	01/28/20	inn002	IN2843346	Innovative Office Solutions LLC	Office Supplies	172.55
71319	01/28/20	int001	W19120509	Office of MN, IT Services	Telephone Expense	57.48
71320	01/28/20	maw002	2020 Dues	MAWD	2020 Annual Dues	7,500.00
71321	01/28/20	me1001	Dec 2019/Jan 2020	Michelle L. Melser	Employee Reimbursement	90.19
71322	01/28/20	mid001	6597741	Quicksilver Express Courier	Miscellaneous Expense	41.39
71323	01/28/20	min008	22576/22606	Minnesota Native Landscapes, Inc.	Constr.School/Comm./Maint. & Rep.	4,022.00
71324	01/28/20	min010	1/6/20	MN Public Facilities Authority	Debt Services-Beltline	5,805.38
71325	01/28/20	ncp001	1/13/20	NCPERS Group Life Ins.	Employee Benefits	16.00
71326	01/28/20	nor013	37917/37918	Northern Dewatering, Inc.	Construction-Flood Damage	36,798.80
71327	01/28/20	nsp001	699888244	Xcel Energy	Willow Pond/Proj.Oper./Utilities	2,257.83
71328	01/28/20	pac001	2012014575	Pace Analytical Services, Inc.	Water QM Staff	292.00
71329	01/28/20	qwe001	1/10/20	CenturyLink	Project Operations	229.43
71330	01/28/20	ram002	PRK-001710	Ramsey County	Stewardship Grant Fund	5,112.00
71331	01/28/20	red002	150450682	Redpath & Company, Ltd	December Accounting	2,354.39
71332	01/28/20	sod001	Jan 2020	Nicole Soderholm	Employee Reimbursement	92.90
71333	01/28/20	stu001	2019327	Studio Lola	Events	162.00
71334	01/28/20	swo001	Dec 2019	Lawrence Swope	Manager Expense	163.56
71335	01/28/20	tim002	M25396/M25356	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expense	539.50
71336	01/28/20	tro002	20-01	Cathy Troendle	Educational Program	1,468.85
71337	01/28/20	usb002	Jan 2020	U.S. Bank	Monthly Credit Card Expense	2,228.90
71338	01/28/20	van001	02/01/20	Vanguard Cleaning Systems of Minnesota	Utilities/Building Contracts	550.00
71339	01/28/20	voy001	869293423004	US Bank Voyager Fleet Sys.	Vehicle Fuel	128.76
71340	01/28/20	was002	4732/4746/4759	Washington Conservation District	Outside Program Support/Water QM	5,880.50
71341	01/28/20	whe001	SPI06323	Wheeler Hardware Company	Bldg./Site Maintenance	5,136.01
71342	01/28/20	wil002	05/30/20	Wilderness Inquiry	Events	375.00
71343	01/28/20	hom001	Dec 2019/Jan 2020	Home Depot	Natural Resources/Water Quality	115.58
71344	01/28/20	wil002	Dec 2019	Andy Shoemaker	Water QM Staff	1,325.00
<b>Total</b>						<b>\$211,278.61</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Jan 1, 2020 to Jan 31, 2020**

Check #	Date	Payee ID	Payee	Description	Amount
EFT	12/13/19	myp001	12/13/16	December 13th Payroll Fees	4110-101-000 67.10
EFT	12/27/19	myp001	12/27/19	December 27th Payroll Fees	4110-101-000 72.95
Dir.Dep.	01/10/20	---	Payroll Expense-Net	January 10th Payroll	4010-101-000 23,871.73
EFT	01/10/20	int002	Internal Rev.Serv.	January 10th Federal Withholding	2001-101-000 8,256.48
EFT	01/10/20	mnd001	MN Revenue	January 10th State Withholding	2003-101-000 1,480.67
EFT	01/10/20	per001	PERA	January 10th PERA	2011-101-000 5,267.96
EFT	01/10/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000 3,029.00
EFT	01/10/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000 425.00
Dir.Dep.	01/24/20	---	Payroll Expense-Net	January 24th Payroll	4010-101-000 24,763.67
EFT	01/24/20	int002	Internal Rev.Serv.	January 24th Federal Withholding	2001-101-000 8,427.40
EFT	01/24/20	mnd001	MN Revenue	January 24th State Withholding	2003-101-000 1,487.31
EFT	01/24/20	per001	PERA	January 24th PERA	2011-101-000 5,242.48
EFT	01/24/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000 3,029.00
EFT	01/24/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000 425.00
<b>Payroll/Benefits</b>					<b><u>\$85,845.75</u></b>
<b>Total</b>					<b>Accounts Payable/Payroll/Benefits: <u>\$297,124.36</u></b>

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Jan 1, 2020 - Jan 31, 2020**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
01/01/20	EFT	met003	MetLife-Group Benefits			\$1,641.57	
				4040-101-000	Employee Benefits-General		1,336.28
				2015-101-000	Employee Health-General		305.29
01/10/20	EFT	hea002	HealthPartners			11,421.64	
				4040-101-000	Employee Benefits-General		10,275.29
				2015-101-000	Employee Health-General		1,146.35
01/14/20	71288	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Bldg. Contracts	79.00	2019
01/14/20	71289	adv003	Advantage Signs & Graphics, Inc.	4670-101-000	Natural Resources Project-General	60.00	2019
01/14/20	71290	aws001	AWS Service Center	4342-101-000	Utilities/Bldg. Contracts	216.29	2019
01/14/20	71291	benoo2	Benefit Extras, Inc.	4040-101-000	Employee Benefits-General	765.00	2019
01/14/20	71292	bre003	Bremer Bank	4040-101-000	Employee Benefits-General	7,543.75	
01/14/20	71293	fle001	Flemings Auto Service	4820-101-000	Vehicle Maintenance-General	52.70	2019
01/14/20	71294	gil001	Gilbert Mechanical Contractors, Inc.	4530-101-000	Water QM Staff-General	719.98	2019
01/14/20	71295	nor011	Northland Securities, Inc.	4708-526-000	Debt Services-Beltline Tunnel	435.00	2019
01/14/20	71296	pra001	Prairie Moon Nursery, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	37.50	
01/14/20	71297	tes001	The Tessman Company	4670-101-000	Natural Resources Project-General	213.30	
01/14/20	71298	twi003	Twin Cities Metro Painting, Inc.	4343-101-000	Bldg./Site Maintenance	746.00	2019
01/14/20	71299	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	2019
01/28/20	71300	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Bldg. Contracts	79.00	
01/28/20	71301	ahl001	Paige Ahlborg			184.37	
				4040-101-000	Employee Benefits-General		109.57
				4020-101-000	Employee Expenses-General		74.80
01/28/20	71302	att002	AT & T Mobility -ROC	4530-101-000	Water QM Staff-General	80.45	
01/28/20	71303	bar001	Barr Engineering			82,670.59	
				4121-101-000	Engineering Admin-General Fund		3,251.42
				4123-101-000	Engineering-Review-General		2,702.00
				4129-101-000	Project Feasibility-General		154.00
				4129-101-000	Project Feasibility-General		210.00
				4129-101-000	Project Feasibility-General		663.50
				4129-101-000	Project Feasibility-General		1,022.50
				4129-101-000	Project Feasibility-General		1,156.50
				4129-101-000	Project Feasibility-General		598.50
				4129-101-000	Project Feasibility-General		66.00
				4129-101-000	Project Feasibility-General		736.00
				4520-101-000	Water QM-Engineering		62.50
				4520-101-000	Water QM-Engineering		62.50
				4520-101-000	Water QM-Engineering		62.50
				4520-101-000	Water QM-Engineering		62.50
				4520-101-000	Water QM-Engineering		187.50
				4520-101-000	Water QM-Engineering		396.00
				4124-101-000	Engineering-Flood Damage		145.00
				4128-520-000	Engineering-Flood Damage		35.96
				4695-101-000	Research Projects-General		275.50
				4695-101-000	Research Projects-General		2,320.00
				4128-518-000	Engineering-School/Commer Retrofit		2,551.50
				4128-518-000	Engineering-School/Commer Retrofit		52.50
				4128-518-000	Engineering-School/Commer Retrofit		240.00
				4682-529-000	Stewardship Grant Fund		1,359.00
				4682-529-000	Stewardship Grant Fund		44.00
				4128-516-000	Engineering-Maint. & Repair		891.29
				4128-516-000	Engineering-Maint. & Repair		532.00

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Jan 1, 2020 - Jan 31, 2020**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4128-516-000	Engineering-Maint. & Repair	2,089.57	<b>2019</b>
				4121-101-000	Engineering Admin-General Fund	4,403.90	
				4123-101-000	Engineering-Review-General	2,924.00	
				4129-101-000	Project Feasability-General	1,233.00	
				4129-101-000	Project Feasability-General	262.50	
				4129-101-000	Project Feasability-General	2,020.00	
				4129-101-000	Project Feasability-General	3,977.50	
				4129-101-000	Project Feasability-General	162.00	
				4520-101-000	Water QM-Engineering	28.50	
				4520-101-000	Water QM-Engineering	521.00	
				4520-101-000	Water QM-Engineering	521.00	
				4520-101-000	Water QM-Engineering	713.50	
				4520-101-000	Water QM-Engineering	521.00	
				4520-101-000	Water QM-Engineering	1,496.00	
				4124-101-000	Engineering-Flood Damage	2,778.50	
				4128-518-000	Engineering-School/Commer Retrofit	13,182.30	
				4128-518-000	Engineering-School/Commer Retrofit	150.00	
				4128-518-000	Engineering-School/Commer Retrofit	1,980.00	
				4128-518-000	Engineering-School/Commer Retrofit	560.00	
				4682-529-000	Stewardship Grant Fund	4,014.50	
				4128-520-000	Engineering-Flood Damage	11,336.65	
				4128-520-000	Engineering-Flood Damage	2,205.50	
				4128-516-000	Engineering-Maint. & Repair	676.00	
				4128-516-000	Engineering-Maint. & Repair	5,073.00	
01/28/20	71304	bar004	Deborah Barnes	4040-101-000	Employee Benefits-General	85.00	
01/28/20	71305	blu003	Blue Thumb/Metro Blooms	4683-101-000	Outside Program Support	1,250.00	
01/28/20	71306	cad001	Allstream	4530-101-000	Water QM Staff-General	65.18	
01/28/20	71307	cit001	City of Little Canada	4342-101-000	Utilities/Bldg. Contracts	109.88	
01/28/20	71308	cit011	City of Roseville	4325-101-000	IT/Website/Software	4,163.00	
01/28/20	71309	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	61.93	
01/28/20	71310	don001	Matthew Doneux			186.57	
				4040-101-000	Employee Benefits-General		40.00
				4670-101-000	Natural Resources Project-General		63.96
				4040-101-000	Employee Benefits-General		82.61
01/28/20	71311	edm001	Randee Edmundson	4682-529-000	Stewardship Grant Fund	200.00	<b>2019</b>
01/28/20	71312	fit002	Mary Fitzgerald			76.80	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		36.80
01/28/20	71313	gal001	Galowitz Olson, PLLC			2,976.00	
				4131-101-000	Attorney General-General		2,531.00
				4131-520-000	Attorney-Flood Damage		42.50
				4131-516-000	Attorney-Maint. & Repair		402.50
01/28/20	71314	ger003	Carole Gernes	4020-101-000	Employee Expenses-General	6.61	<b>2019</b>
01/28/20	71315	gil001	Gilbert Mechanical Contractors, Inc.	4342-101-000	Utilities/Bldg. Contracts	1,086.50	<b>2019</b>
01/28/20	71316	ham002	Hamline University	4683-101-000	Outside Program Support	10,000.00	
01/28/20	71317	han008	Hanna Enterprises	4342-101-000	Utilities/Bldg. Contracts	855.00	<b>2019</b>
01/28/20	71318	inn001	Innovative Office Solutions, LLC	4320-101-000	Office Supplies-General	172.55	
01/28/20	71319	int001	Office of MN, IT Services	4310-101-000	Telephone-General	57.48	
01/28/20	71320	maw002	MAWD	4338-101-000	Dues & Publications-General	7,500.00	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Jan 1, 2020 - Jan 31, 2020**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
01/28/20	71321	mel001	Michelle L. Melser			90.19	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		25.23
				4020-101-000	Employee Expenses-General		24.96
01/28/20	71322	mid001	Quicksilver Express Courier	4390-101-000	Miscellaneous Expense-General	41.39	2019
01/28/20	71323	min008	Minnesota Native Landscapes, Inc			4,022.00	
				4650-516-000	Project Operations-Maint. & Repair		1,522.00
				4630-518-000	Construction-School/Commercial		2,500.00
01/28/20	71324	min010	MN Public Facilities Authority	4700-526-000	Debt Service-Beltline & Tanner	5,805.38	
01/28/20	71325	ncp001	NCPERS Group Life Ins.	2015-101-000	Employee Health-General	16.00	
01/28/20	71326	nor013	Northern Dewatering, Inc.	4630-520-000	Construction-Flood Damage	36,798.80	
01/28/20	71327	nsp001	Xcel Energy			2,257.83	
				4650-101-000	Project Operations-General		631.54
				4342-101-000	Utilities/Bldg. Contracts		1,612.95
				4630-554-000	Construction Imp.-Willow Pond		13.34
01/28/20	71328	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	292.00	2019
01/28/20	71329	qwe001	Century Link	4650-101-000	Project Operations-General	229.43	
01/28/20	71330	ram002	Ramsey County	4682-529-000	Stewardship Grant Fund	5,112.00	2019
01/28/20	71331	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	2,354.39	2019
01/28/20	71332	sod001	Nicole Soderholm			92.90	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		52.90
01/28/20	71333	stu001	Studio Lola	4372-101-000	Events	162.00	
01/28/20	71334	swo001	Lawrence Swope	4360-101-000	Manager Expense-General	163.56	2019
01/28/20	71335	tim002	Timesaver Off-Site Secretarial, Inc.			539.50	
				4365-101-000	Committee/Board Meeting Exp.		285.00
				4365-101-000	Committee/Board Meeting Exp.		254.50
01/28/20	71336	tro002	Cathy Troendle			1,468.85	
				4370-101-000	Educational Program-General		1,450.00
				4370-101-000	Educational Program-General		18.85
01/28/20	71337	usb002	U.S. Bancorp			2,228.90	
				4343-101-000	Bldg./Site Maintenance		41.37
				4325-101-000	IT/Website/Software		93.74
				4320-101-000	Office Supplies-General		32.35
				4320-101-000	Office Supplies-General		28.53
				4320-101-000	Office Supplies-General		14.09
				4320-101-000	Office Supplies-General		32.00
				4365-101-000	Committee/Board Meeting Exp.		43.13
				4350-101-000	Training & Education-General		31.69
				4530-101-000	Water QM Staff-General		31.96
				4320-101-000	Office Supplies-General		42.00
				4530-101-000	Water QM Staff-General		40.00
				4670-101-000	Natural Resources Project-General		40.00
				4320-101-000	Office Supplies-General		35.99
				4360-101-000	Manager Expense-General		107.07
				4350-101-000	Training & Education-General		265.00
				4040-101-000	Employee Benefits-General		9.95

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Jan 1, 2020 - Jan 31, 2020**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4040-101-000	Employee Benefits-General	179.90	2019
				4630-516-000	Construction Imp.-Maint. & Repair	300.00	2019
				4338-101-000	Dues & Publications-General	144.00	2019
				4350-101-000	Training & Education-General	20.45	2019
				4325-101-000	IT/Website/Software	200.00	2019
				4530-101-000	Water QM Staff-General	27.90	2019
				4320-101-000	Office Supplies-General	33.48	2019
				4320-101-000	Office Supplies-General	16.50	2019
				4350-101-000	Training & Education-General	118.98	2019
				4040-101-000	Employee Benefits-General	118.80	2019
				4040-101-000	Employee Benefits-General	112.95	2019
				4530-101-000	Water QM Staff-General	67.07	2019
01/28/20	71338	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	550.00	
01/28/20	71339	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	128.76	2019
01/28/20	71340	was002	Washington Conservation District			5,880.50	
				4682-529-000	Stewardship Grant Fund		2,594.50
				4683-101-000	Outside Program Support		3,175.00
				4530-101-000	Water QM Staff-General		111.00
01/28/20	71341	whe001	Wheeler Hardware Company	4343-101-000	Bldg./Site Maintenance	5,136.01	2019
01/28/20	71342	wil002	Wilderness Inquiry	4372-101-000	Events	375.00	
01/28/20	71343	hom001	Home Depot Credit Services			115.58	
				4670-101-000	Natural Resources Project-General		5.47
				4530-101-000	Water QM Staff-General		86.39
01/28/20	71344	sho002	Andy Shoemaker	4670-101-000	Natural Resources Project-General		23.72
				4530-101-000	Water QM Staff-General	1,325.00	2019
<b>Accounts Payable Total:</b>						<b>\$211,278.61</b>	
EFT	12/13/19	myp001	Payroll Fees	4110-101-000	December 13th Payroll Fees	67.10	2019
EFT	12/27/19	myp001	Payroll Fees	4110-101-000	December 27th Payroll Fees	72.95	2019
Dir.Dep.	01/10/20	---	Payroll Expense-Net	4010-101-000	January 10th Payroll	23,871.73	
EFT	01/10/20	int002	Internal Revenue Service	2001-101-000	January 10th Federal Withholding	8,256.48	
EFT	01/10/20	mnd001	MN Revenue	2003-101-000	January 10th State Withholding	1,480.67	
EFT	01/10/20	per001	PERA	2011-101-000	January 10th PERA	5,267.96	
EFT	01/10/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	3,029.00	
EFT	01/10/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Dir.Dep.	01/24/20	---	Payroll Expense-Net	4010-101-000	January 24th Payroll	24,763.67	
EFT	01/24/20	int002	Internal Revenue Service	2001-101-000	January 24th Federal Withholding	8,427.40	
EFT	01/24/20	mnd001	MN Revenue	2003-101-000	January 24th State Withholding	1,487.31	
EFT	01/24/20	per001	PERA	2011-101-000	January 24th PERA	5,242.48	
EFT	01/24/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	3,029.00	
EFT	01/24/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
<b>Payroll/Benefits</b>						<b>\$85,845.75</b>	
<b>TOTAL:</b>						<b>\$297,124.36</b>	





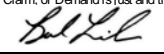
**Summary of Professional Engineering Services During the Period  
December 21, 2019 through December 31, 2019**

	Total Engineering Budget (2019)	Total Fees to Date (2019)	Budget Balance (2019)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$76,000.00	\$74,260.22	\$1,739.78	\$3,251.42	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$759.00	\$1,241.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$15,187.60	\$4,812.40		4129-101	DW-11
<b>Engineering Review</b>						
Engineering Review	\$55,000.00	\$47,186.16	\$7,813.84	\$2,702.00	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$50,000.00	\$6,098.70	\$43,901.30		4129-101	DW-6
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$163,915.37	\$53,084.63	\$154.00	4129-101	BELT-3
Interim emergency response plan funds for top priority District flooding areas (such as Owasso Basin, Willow Creek, PCU Pond, etc)	\$50,000.00	\$324.00	\$49,676.00		4129-101	DW-19
FEMA Flood Mapping Update	\$90,000.00	\$48,005.50	\$41,994.50	\$210.00	4129-101	DW-9
Snail, Grass, and West Vadnais outlet permitting with the MndNR	\$100,000.00	\$48,338.26	\$51,661.74	\$663.50	4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$39,668.50	\$30,331.50	\$1,022.50	4129-101	DW-9
Climate Adaption Workshops with Member Cities	\$100,000.00	\$255.00	\$99,745.00		4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$25,000.00	\$25,083.85	-\$83.85	\$1,156.50	4129-101	DW-6
Wetland Restoration site search. BWSR criteria needed to help guide this idea.	\$25,000.00	\$28,897.60	-\$3,897.60	\$598.50	4129-101	DW-1, DW-8
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Priority Pond Assessment (WQ Monitor/Dredge/Treat/Leave As-Is)	\$20,000.00	\$2,288.00	\$17,712.00		4129-101	DW-5
Twin Lake Outlet	\$50,000.00	\$35,489.00	\$14,511.00	\$66.00	4129-101	DW-9
Point Douglas Drive Study	\$10,000.00	\$4,035.77	\$5,964.23	\$736.00	4129-101	DW-9
Contingency*	\$20,000.00	\$3,233.00	\$16,767.00		4129-101	
<b>GIS Maintenance</b>						
GIS Maintenance	\$5,000.00	\$341.50	\$4,658.50		4170-101	DW-13
<b>Monitoring Water Quality/Project Monitoring</b>						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$2,753.68	\$7,246.32		4520-101	DW-2
Auto lake monitoring system for Grass Lake	\$20,000.00	\$18,875.61	\$1,124.39	\$62.50	4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$8,380.60	\$11,619.40	\$62.50	4520-101	DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$7,012.00	\$12,988.00	\$62.50	4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$17,710.99	\$2,289.01	\$62.50	4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$10,372.52	\$9,627.48	\$187.50	4520-101	DW-18
Special Project BMP Monitoring (Maplewood Mall, Frost Kennard Spent Lime Filter, Willow Pond CMAC)	\$25,000.00	\$28,556.35	-\$3,556.35	\$396.00	4520-101	DW-12
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$3,108.44	\$6,891.56		4122-101	DW-7
Permit Application Review	\$55,000.00	\$38,193.00	\$16,807.00	\$145.00	4124-101	DW-7
<b>Lake Studies/WRPPs/TMDL Reports</b>						
2019 Grant Applications	\$30,000.00	\$144.00	\$29,856.00		4661-101	--
Tanners Flood Response Tool Model Update	\$3,000.00	\$1,264.00	\$1,736.00		4661-101	TaL-1
Internal Load Management Discussions	\$10,000.00	\$2,707.00	\$7,293.00		4661-101	KL-2, GC-2, WL-3, BL-3, BCL-2, LE-4, BeL-3, LO-5
Twin Lake Public Meeting	\$20,000.00	\$13,942.12	\$6,057.88		4129-101	DW-19
Twin Lake Emergency Response Management 2019		\$80,897.39	-\$80,897.39	\$35.96	4128-520	
Contingency for Lake Studies	\$5,000.00	\$0.00	\$5,000.00		4661-101	
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$12,634.50	-\$634.50	\$275.50	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$17,296.52	-\$2,296.52	\$2,320.00	4695-101	DW-12
Iron aggregate pond application research project	\$20,000.00	\$504.07	\$19,495.93		4695-101	DW-12
<b>Project Operations</b>						
2018 Tanners Alum Facility Monitoring	\$15,000.00	\$14,026.75	\$973.25		4650-101	TaL-3
<b>Capital Improvements</b>						
Wakefield Park/Frost Avenue Stormwater Project	\$175,000.00	\$71,482.02	\$103,517.98		4128-553	WL-1
Commercial Sites Retrofit Projects 2018 (Targeted Retrofits)	\$55,000.00	\$79,858.10	-\$24,858.10	\$2,551.50	4128-518	DW-6
Survey - Stonebrooke Engineering (Target and Motel 6 Retrofits)	\$230,000.00	\$29,257.70	\$200,742.30		4128-518	DW-6
School Sites Retrofit Projects 2018 (Targeted Retrofits)	\$55,000.00	\$15,743.00	\$39,257.00	\$52.50	4128-518	DW-6
Church Sites Retrofit Projects 2018 (Targeted Retrofit)	\$55,000.00	\$13,608.00	\$41,392.00	\$240.00	4128-518	DW-6
Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed)	\$125,000.00	\$19,860.26	\$105,139.74		4128-518	BeL-4
BMP Incentive Fund: Gen'l BMP Design Assistance and Review	\$50,000.00	\$47,172.10	\$2,827.90	\$1,359.00	4682-529	DW-6
Lowering West Vadnais Lake Outlet	\$50,000.00	\$0.00	\$50,000.00		4128-520	DW-9
Cottage Place Wetland Restoration	\$100,000.00	\$65,278.78	\$34,721.22		4128-518	DW-1, DW-8
Markham Pond Aeration Project and Grant Reporting	\$1,000.00	\$5,842.48	-\$4,842.48		4128-551	KC-1
Aldrich Arena Plans and Specifications	\$125,000.00	\$168,939.74	-\$43,939.74	\$44.00	4682-529	DW-6
Willow Pond CMAC Implementation	\$100,000.00	\$131,251.61	-\$31,251.61		4128-554	BeL-4
<b>CIP Project Repair &amp; Maintenance</b>						
Kohlman Lake Macrophyte Mgmt	\$5,000.00	\$9,312.00	-\$4,312.00		4695-101	KL-3
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$172,815.75	-\$97,815.75	\$891.29	4128-516	DW-5
2019 CIP Maintenance and Repairs	\$150,000.00	\$96,531.35	\$53,468.65	\$532.00	4128-516	DW-5
2020 CIP Maintenance and Repairs	\$150,000.00	\$28,068.73	\$121,931.27	\$2,089.57	4128-516	DW-5

\*Final edits to Beaver, Owasso and Battle Creek Lakes Subwatershed Feasibility Studies per Board comments at the 1/2/19 meeting.

TOTAL PAYABLE FOR PERIOD 12/21/2019 - 12/31/2019 \$21,930.24

Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid.

  
 Bradley J. Lindaman, Vice President



**Summary of Professional Engineering Services During the Period  
January 1, 2020 through January 17, 2020**

	Total Engineering Budget (2020)	Total Fees to Date (2020)	Budget Balance (2020)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$76,000.00	\$4,403.90	\$71,596.10	\$4,403.90	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$0.00	\$2,000.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-11
<b>Engineering Review</b>						
Engineering Review	\$55,000.00	\$2,924.00	\$52,076.00	\$2,924.00	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Interim emergency response plan funds for top priority District flooding areas	\$45,000.00	\$0.00	\$45,000.00		4129-101	DW-19
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$163,915.37	\$53,084.63	\$1,233.00	4129-101	BELT-3
FEMA Flood Mapping Update	\$55,000.00	\$48,268.00	\$6,732.00	\$262.50	4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$2,020.00	\$67,980.00	\$2,020.00	4129-101	DW-19
Hillcrest Golf Course (multi-use)	\$25,000.00	\$3,977.50	\$21,022.50	\$3,977.50	4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Owasso Basin by-pass pipeline feasibility study/prelim design (Atlas 14 #1 priority area)	\$125,000.00	\$0.00	\$125,000.00		4129-101	
Willow Creek flood damage reduction feasibility study (Atlas 14 - #2 priority flooding area)	\$50,000.00	\$0.00	\$50,000.00		4129-101	
Ames Lake area flood damage reduction feasibility study (Atlas 14 #3 priority area)	\$50,000.00	\$0.00	\$50,000.00		4129-101	
WVL to South of 694 (Board Request - 1/08/2020)			\$0.00		4129-101	
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$0.00	\$25,000.00		4129-101	
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00		4129-101	
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$40,000.00	\$0.00	\$40,000.00		4129-101	
Battle Creek Lower Ravine Restoration Feasibility Study	\$25,000.00	\$0.00	\$25,000.00		4129-101	
Wetland Restoration Site Search	\$25,000.00	\$29,059.60	-\$4,059.60	\$162.00	4129-101	DW-1, DW-8
Contingency*	\$25,000.00	\$0.00	\$25,000.00		4129-101	
<b>GIS Maintenance</b>						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00		4170-101	DW-13
<b>Monitoring Water Quality/Project Monitoring</b>						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-2
Special Project BMP Monitoring and annual report development	\$25,000.00	\$28.50	\$24,971.50	\$28.50	4520-101	DW-12
Auto lake monitoring system for Grass Lake	\$20,000.00	\$19,396.61	\$603.39	\$521.00	4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$8,901.60	\$11,098.40	\$521.00	4520-101	DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$7,725.50	\$12,274.50	\$713.50	4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$18,231.99	\$1,768.01	\$521.00	4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$11,868.52	\$8,131.48	\$1,496.00	4520-101	DW-18
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00		4122-101	DW-7
Permit Application Review	\$55,000.00	\$2,778.50	\$52,221.50	\$2,778.50	4124-101	DW-7
<b>Lake Studies/WRPPs/TMDL Reports</b>						
2020 Grant Applications	\$20,000.00	\$0.00	\$20,000.00		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$0.00	\$3,000.00		4661-101	TaL-1
Kohlman Lake, Round Lake (LC), Beaver Lake, Battle Creek Lake, Lake Owasso, Lake Emily, Twin Lake	\$50,000.00	\$0.00	\$50,000.00		4661-101	KL-2, GC-2, WL-3, BL-3, BCL-2, LE-4, Rel-3, LO-5
Wakefield Lake internal load modeling (sediment and curlyleaf)	\$30,000.00	\$0.00	\$30,000.00		4661-101	
WMP Updates - Including Implementation Plan Updates	\$10,000.00	\$0.00	\$10,000.00		4661-101	
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$0.00	\$15,000.00		4661-101	
Contingency for Lake Studies	\$25,000.00	\$0.00	\$25,000.00		4661-101	
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$0.00	\$12,000.00		4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$0.00	\$15,000.00		4695-101	DW-12
<b>Project Operations</b>						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$0.00	\$15,000.00		4650-101	TaL-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$0.00	\$30,000.00			DW-9, BELT-3
<b>Capital Improvements</b>						
Target and Motel 6	\$197,000.00	\$13,182.30	\$183,817.70	\$13,182.30	4128-518	DW-6
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$20,000.00	\$0.00	\$20,000.00		4128-518	DW-6
Aldrich Arena (soils and plantings)	\$25,000.00	\$150.00	\$24,850.00	\$150.00	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$0.00	\$17,500.00		4128-518	DW-6, WL-1
Commercial Sites Retrofit Projects 2020 (Targeted Retrofits) - Target/Motel 6/Boys club	\$45,000.00	\$1,980.00	\$43,020.00	\$1,980.00	4128-518	DW-6
School Sites Retrofit Projects 2020 (Targeted Retrofits)	\$45,000.00	\$0.00	\$45,000.00		4128-518	DW-6
Church Sites Retrofit Projects 2020 (Targeted Retrofit)	\$45,000.00	\$560.00	\$44,440.00	\$560.00	4128-518	DW-6
BMP Incentive Fund: Gen1 BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$75,000.00	\$4,014.50	\$70,985.50	\$4,014.50	4682-529	DW-6
Lowering West Vadnais Lake Outlet	\$50,000.00	\$11,336.65	\$38,663.35	\$11,336.65	4128-520	DW-9
Wetland Restoration (Cottage Place or other)	\$100,000.00	\$0.00	\$100,000.00		4128-518	DW-1, DW-8
Keller Channel Weir & Phalen Outlet Resiliency Modifications	\$250,000.00	\$0.00	\$250,000.00			DW-9, BELT-3
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans	\$65,000.00	\$2,205.50	\$62,794.50	\$2,205.50	4128-520	DW-9
West Vadnais Lake Emergency Overflow - Twin Lake By-Pass (permanent structures)	\$30,000.00	\$0.00	\$30,000.00			DW-9
<b>CIP Project Repair &amp; Maintenance</b>						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$676.00	\$74,324.00	\$676.00	4128-516	DW-5
Beltline 5-year Inspection	\$100,000.00	\$0.00	\$100,000.00		4128-516	BELT-2
2020 CIP Maintenance and Repairs	\$150,000.00	\$5,073.00	\$144,927.00	\$5,073.00	4128-516	DW-5
2021 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$0.00	\$30,000.00		4128-516	DW-5

TOTAL PAYABLE FOR PERIOD 1/1/20 - 1/17/20

\$60,740.35

Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid.

  
 Bradley J. Lindaman, Vice President

Galowitz Olson, PLLC  
10390 39th Street North  
Lake Elmo, Minnesota 55042  
Office: (651) 777-6960  
Fax: (651) 777-8937

Ramsey-Washington Metro Watershed District  
C/O Tina Carstens  
2665 Noel Drive  
Little Canada MN 55117

Page: 1  
January 22, 2020  
File No: 9M

	Balance
General Account	\$2,429.00
RWMWD BID SOLICITATION	\$42.50
County Ditch 16	\$51.00
Twin Lakes Litigation	\$42.50
2020 CIP	\$360.00
Beltline Resiliency Study	\$51.00
	<u>\$2,976.00</u>

\* \* \* \* \*

# Permit Program

\* \* \* \* \*

# Permit Application Coversheet

Date February 05, 2020

Project Name Vadnais Sports Center Indoor Turf Facility Project Number 20-03

Applicant Name Ryan Ries, Ramsey County Parks & Rec

Type of Development Institutional

---

## Property Description

This project is located at County Road E and International Drive in the City of Vadnais Heights. The applicant is proposing to replace the former sports dome with an indoor turf facility. The total site area is 2.5 acres. This parcel is part of a larger common plan of development with a portion of its stormwater treatment constructed in 2009 (permit #09-34). In order to bring the current project area into compliance with the District's updated rules, the applicant is proposing to incorporate permeable asphalt in the parking area west of the facility. Impervious area is slightly decreasing over existing conditions. The applicant has submitted a stewardship grant application for additional permeable asphalt (#20-04 CS).

---

## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i>                         | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |
- 

## Water Quantity Considerations

There are no water quantity considerations.

---

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

---

## Staff Recommendation

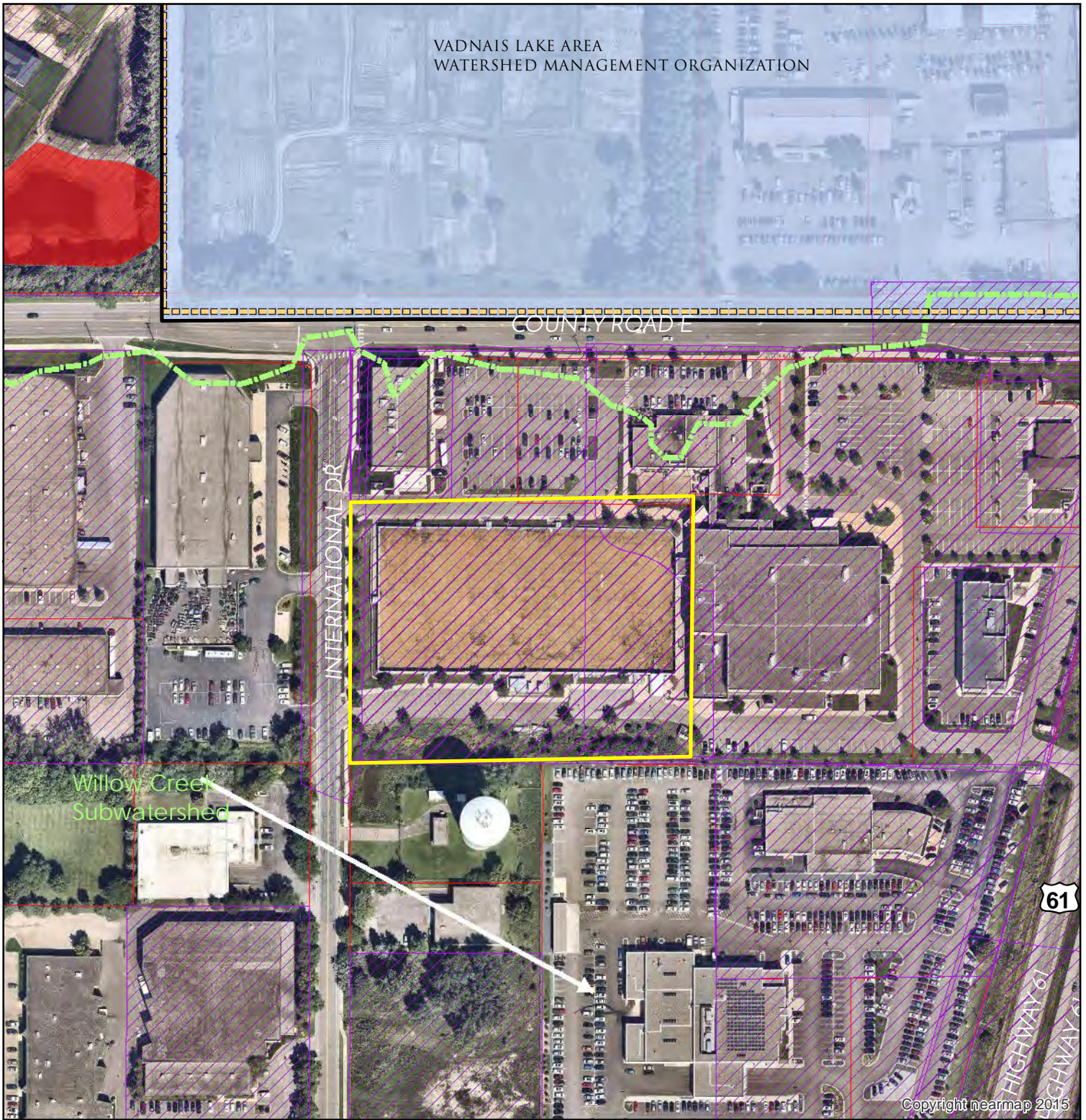
Staff recommends approval of this permit with the special provisions.

---

## Attachments:

- Project Location Map
- Project Grading Plan

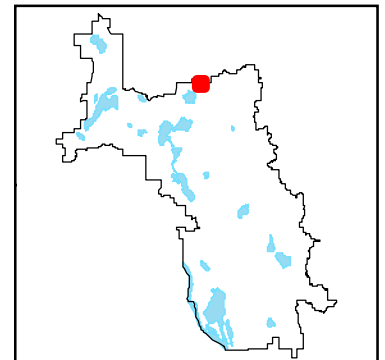
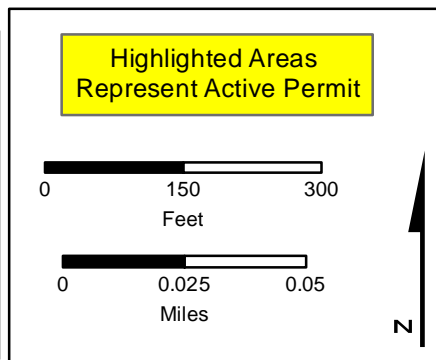
# #20-03 Vadnais Sports Center Indoor Turf Facility



Note: Shaded area is outside RWMWD

Wetlands	
<span style="color: red;">■</span>	Manage A
<span style="color: green;">■</span>	Manage B
<span style="color: blue;">■</span>	Manage C
<span style="color: lightblue;">■</span>	Lake
<span style="color: gray;">■</span>	Sediment Pond
<span style="color: purple;">■</span>	Not Assessed

	RWMWD Boundary
	WMU
	Flow Arrows
	Major Flow Arrows
	Subwatersheds
	Creeks
	Permits
	Ramsey Co Parcels
	Washington Co Parcels



20-03

### Special Provisions

1. The applicant shall submit the signed stormwater management plan.
2. The applicant shall include the additional 15 permeable asphalt parking stalls proposed for RWMWD grant funding on Sheet 200.CU.
3. The applicant shall submit an erosion control plan that includes the full project area, not just the western portion of the site. Include perimeter control, inlet protection, and construction entrance locations if applicable.
4. The applicant shall submit the final set of signed construction plans.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

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NOT FOR CONSTRUCTION

DATE: 02/26/19

PROJECT: VADNAIS SPORTS CENTER INDOOR TURF FACILITY

DATE: 02/26/19

DATE: 02/26/19

DATE: 02/26/19

DATE: 02/26/19

DATE: 02/26/19

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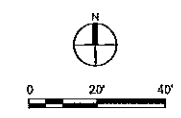
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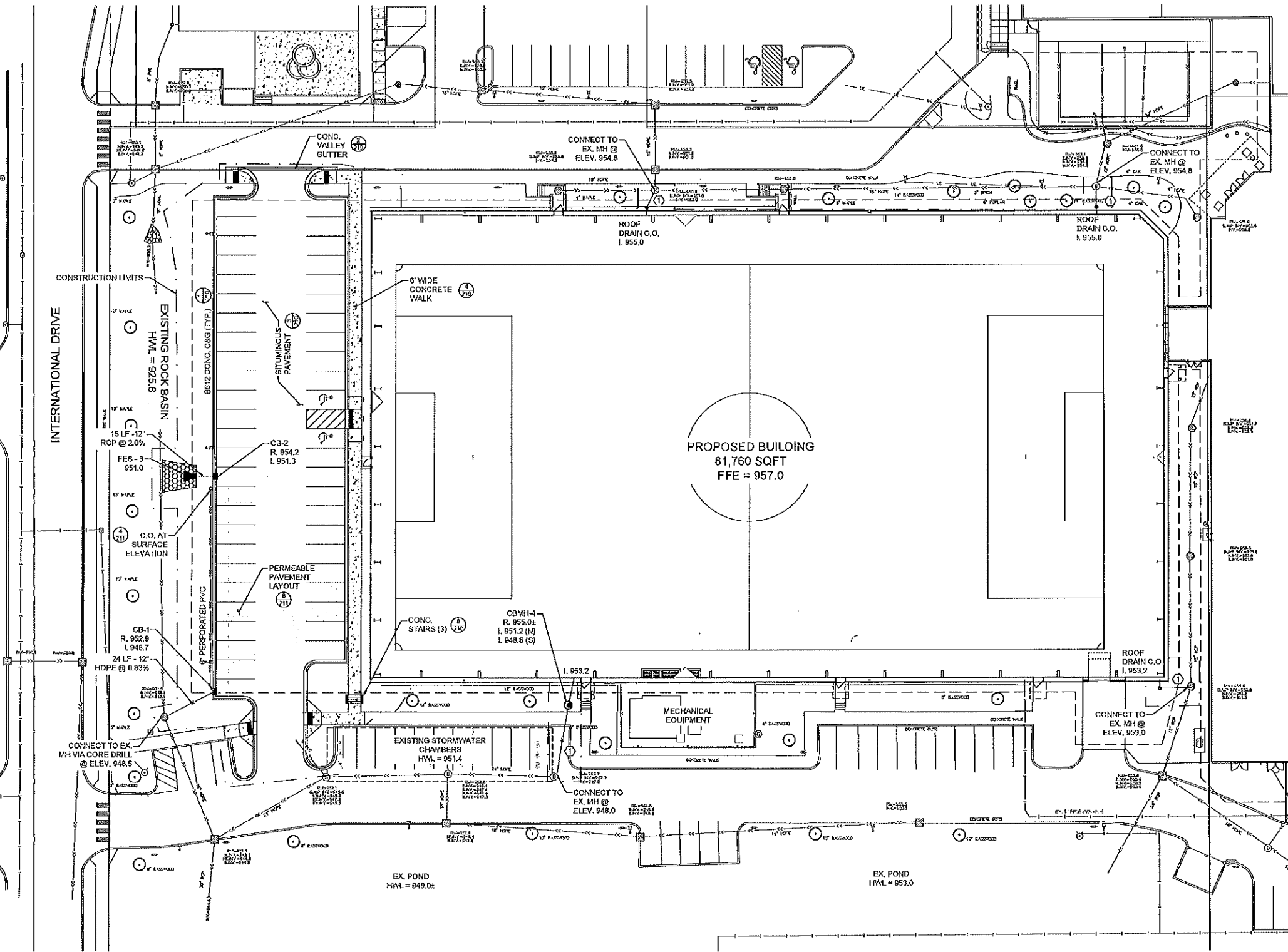


**LEGEND**

	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING WATERMAIN
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	PROPOSED DRAIN TILE
	PROPOSED ROOF DRAIN
	PROPOSED STORM INLETS
	FES W/ TRASH GUARD AND RIP RAP

- CONTRACTOR NOTES**
- ALL CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE SOIL ENGINEER UNLESS DIRECTED OTHERWISE.
  - TOPOGRAPHY & SITE SURVEY CONDUCTED BY ANDERSON ENGINEERING OF MN, LLC.
  - ALL CONSTRUCTION SHALL COMPLY WITH MOST CURRENT CITY OF VADNAIS HEIGHTS SPECIFICATIONS, THE 2016 EDITION OF MNDOT STANDARD CONSTRUCTION SPECIFICATIONS (INCLUDING SUPPLEMENTS), UNLESS DIRECTED OTHERWISE.
  - ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE MUNICIPAL, WATERSHED DISTRICT, COUNTY, MPCA, DEPT. OF HEALTH, AND MNDOT PERMITS.
  - THE LOCATION AND TYPE OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE INFORMATION IS NOT WARRANTED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR IN COOPERATION WITH THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES.
  - ALL JOINTS & CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE WATER TIGHT. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES AND CATCH BASINS.
  - LOCATE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED.
  - SUBSTITUTIONS FROM B.F.O. SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.
  - ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE, MUST BE TESTED IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 4714, SECTION 1109.0.
  - STORM SEWER MAY BE RCP MEETING ASTM C76 OR HDPE MEETING ASTM D312 AND APPLICABLE MNDOT STANDARDS EXCEPT AS NOTED ON PLAN OR BELOW.
    - A. FOND OUTLETS SHALL BE RCP FROM FES TO FIRST UPSTREAM STRUCTURE, THE LAST JOINTS (MIN.)
    - B. ROOF LEADERS SHALL BE PVC SCH. 40. COORDINATE SIZE AND LOCATION WITH PLUMBING CONTRACTOR.
  - ALL HANDICAPPED STALLS AND ACCESS RAMPS SHALL COMPLY WITH THE CURRENT ADA STANDARDS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF BUILDING ENTRANCES.

- KEY NOTES**
- 10" PVC ROOF DRAIN SLOPED AT 2.0% MIN. CONFIRM SIZE AND LOCATION OF ROOF LEADERS WITH PLUMBING CONTRACTOR



CALL 48 HOURS BEFORE DIGGING:  
**GOPHER STATE ONE CALL**  
TWIN CITY AREA (651)454-0002  
MINNESOTA TOLL FREE 1-800-252-1166

**STRUCTURE SCHEDULE**

STRUCTURE NO.	SIZE	CASTING & NOTES
CB-1	48" ROUND	R-3067-V
CB-2	48" ROUND	R-3067-V
FES-3	12" RCP W. TRASH GUARD	4 CY CL III RIP-RAP
CBMH-4	48" ROUND	R-1642, SOLID, "STORM"

This sheet may be a Reduced Copy. The bar above is 1" long on a full size sheet. Printing scales apply to full size sheets.



Sheet No. 200.CU

UTILITY PLAN

**200.CU**



# Permit Application Coversheet

Date February 05, 2020

Project Name Caves Century Townhomes Water Quality Impr Project Number 20-04

Applicant Name Mike Gomez, RE3 Management- Caves Century HOA

Type of Development Water Quality

---

## Property Description

This project is located at an existing townhome association on Ferndale Street North in the City of Maplewood. The applicant is proposing to construct an underground infiltration system containing tire-derived aggregate (TDA) to capture and treat stormwater. The total site area is 1.5 acres. The applicant has submitted a stewardship grant application to help fund this work (#20-03 CS).

---

## Watershed District Policies or Standards Involved:

- |   |   |
|---|---|
| <input type="checkbox"/> <i>Wetlands</i>              | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |
- 

## Water Quantity Considerations

There are no water quantity considerations.

---

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

There are no long term water quality considerations.

---

## Staff Recommendation

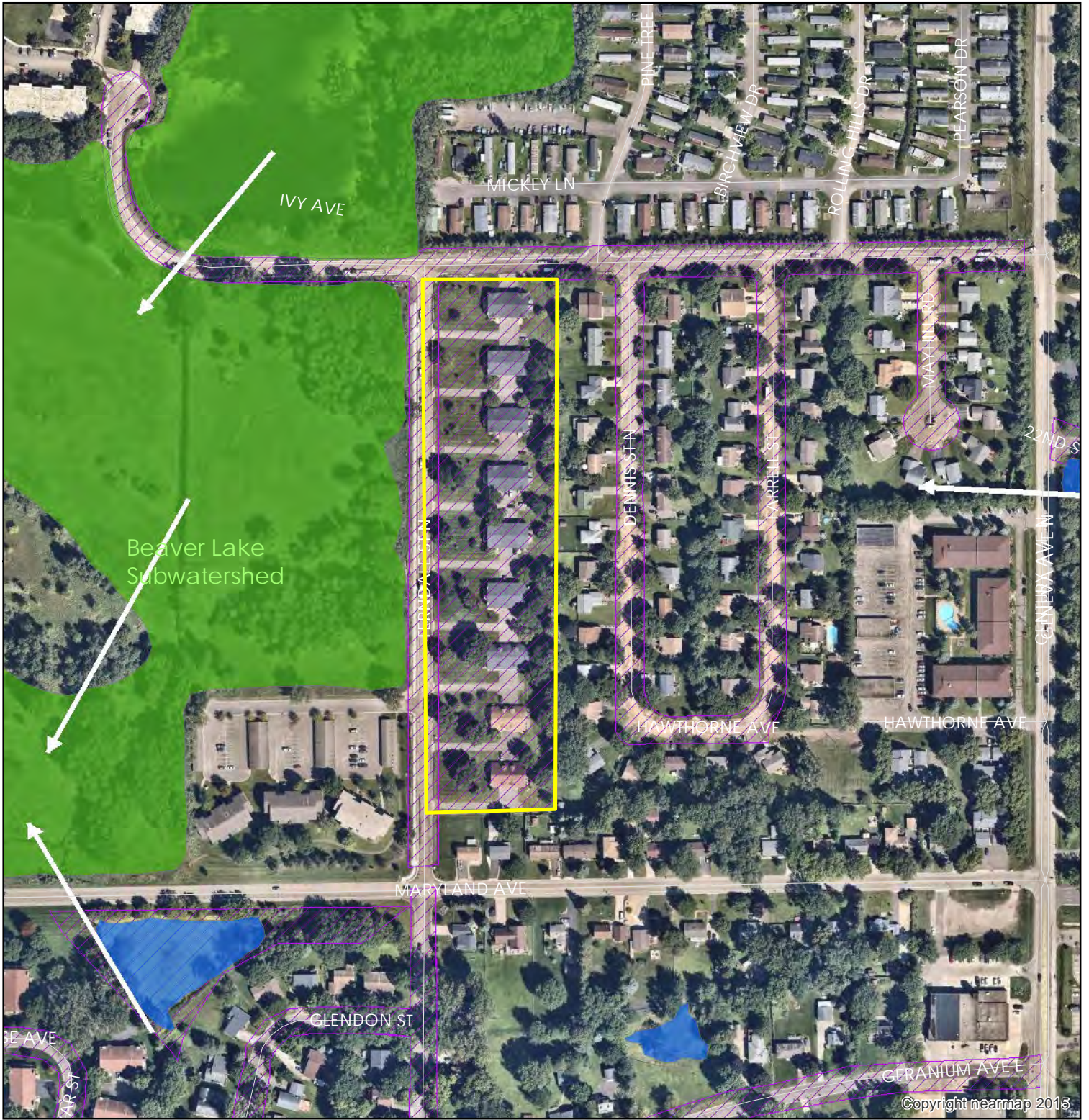
Staff recommends approval of this permit with the special provision.

---

## Attachments:

- Project Location Map
- Project Grading Plan

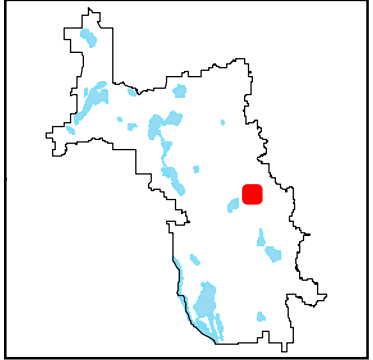
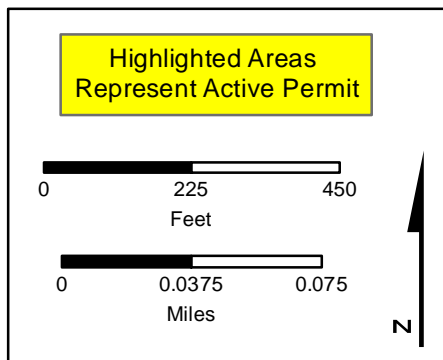
# #20-04 Caves Century Townhomes Water Quality Improvements



**Wetlands**

<span style="color: red;">■</span>	Manage A
<span style="color: green;">■</span>	Manage B
<span style="color: blue;">■</span>	Manage C
<span style="color: lightblue;">■</span>	Lake
<span style="color: gray;">■</span>	Sediment Pond
<span style="color: purple;">■</span>	Not Assessed

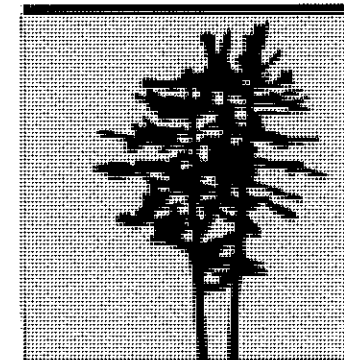
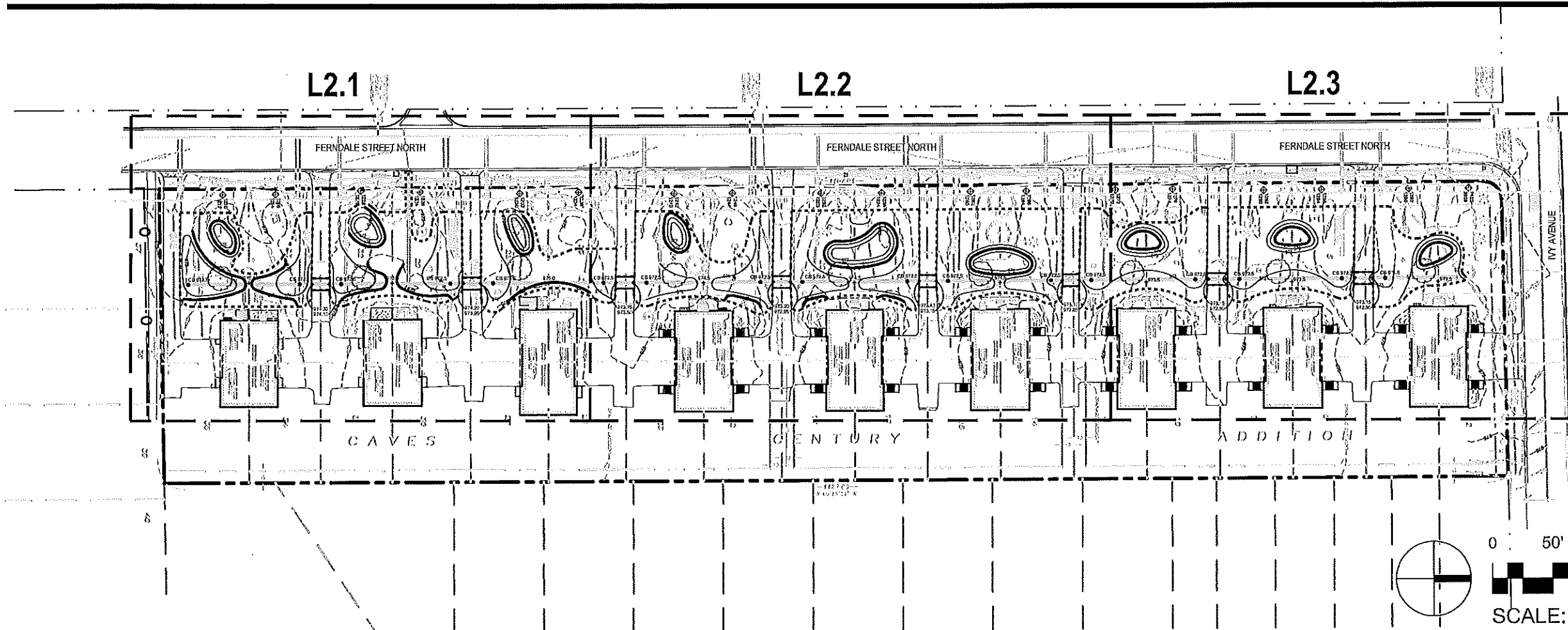
	RWMWD Boundary
	Flow Arrows
	Major Flow Arrows
	Subwatersheds
	Creeks
	Permits



20-04

### Special Provisions

1. The applicant shall submit the final, signed set of construction plans (pdf).



LANDSCAPE ARCHITECTURE, INC.  
 2350 Bayless Place Saint Paul, MN 55114  
 stephen@landarcinc.com 651.846.1020 landarcinc.com

PROJECT NAME:  
**Caves Century  
 Townhomes**

REVISION HISTORY:


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.  
 Signature: *Stephen Mastey*  
 Typed or Printed Name: STEPHEN MASTEY  
 Date: 01-01-2020 Reg. No. 40629

Copyright 2020, Landscape Architecture, Inc. All Rights Reserved under Law.

PROJECT LOCATION:  
**Ferndale Street  
 North**  
 Maplewood, Minnesota  
 55119

DRAWING TITLE:  
**Grading  
 Reference Plan**

SCALE: SCALE  
 DRAWN BY: SPH  
 CHECKED BY: SPH

**L2.0**

# Permit Application Coversheet

Date February 05, 2020

Project Name Frost Lake Elementary Improvements

Project Number 20-05

Applicant Name Angela Selb-Sack, Saint Paul Public Schools

Type of Development Institutional

## Property Description

This project is located at the existing Frost Lake Elementary School in the City of St. Paul. The applicant is proposing to redevelop a portion of the site which will include a partial demolition, new building addition, playground, and drive areas. The total site area is 2.9 acres. An underground filtration system is proposed to meet stormwater treatment requirements. Filtration is being proposed due to poor soils. Pretreatment will include a sumped manhole and isolator row. The proposed project will result in a 0.8-acre decrease in impervious area over existing conditions.

## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i>                         | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |

## Water Quantity Considerations

There are no water quantity considerations.

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

## Attachments:

- Project Location Map
- Project Grading Plan

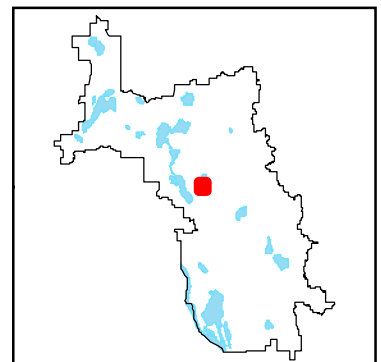
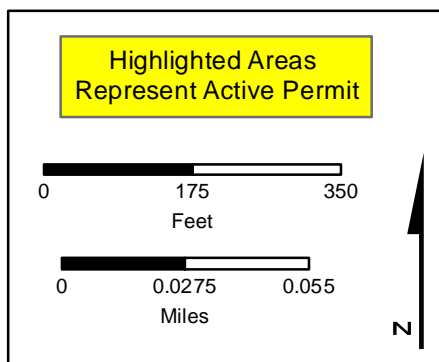
# #20-05 Frost Lake Elementary Improvements



**Wetlands**

<span style="color: red;">■</span>	Manage A
<span style="color: green;">■</span>	Manage B
<span style="color: blue;">■</span>	Manage C
<span style="color: lightblue;">■</span>	Lake
<span style="color: gray;">■</span>	Sediment Pond
<span style="color: purple;">■</span>	Not Assessed

	RWMWD Boundary
	Flow Arrows
	Major Flow Arrows
	Subwatersheds
	Creeks
	Permits

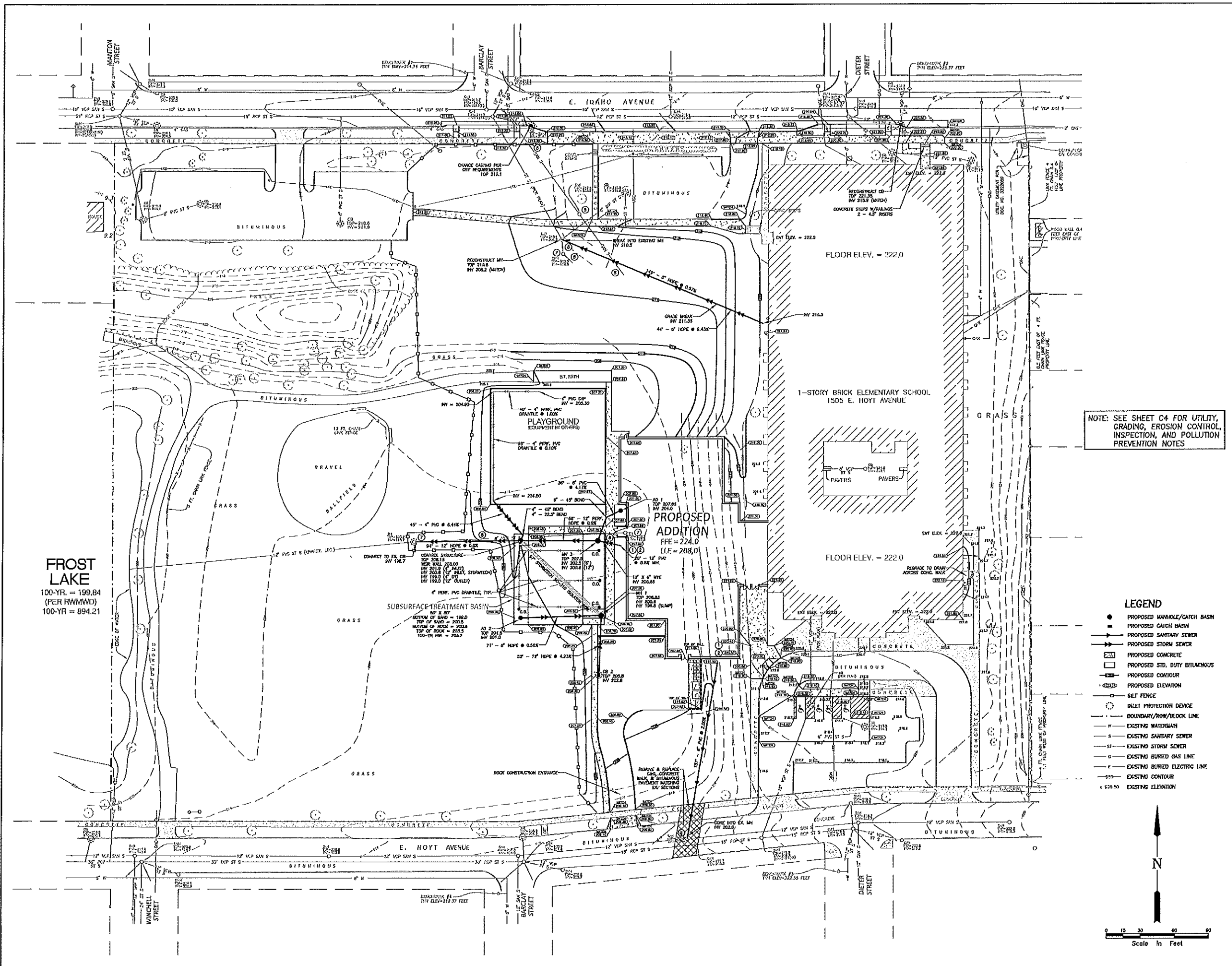


### Special Provisions

1. The applicant shall add notes to the plans:
  - A. Providing direction to the contractor on best practices for constructing the stormwater treatment areas, including limiting soil compaction and protecting them from sediment runoff during construction.
  - B. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to construction activity to schedule an initial SWPPP inspection.
  - C. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to construction of stormwater treatment system.
  - D. The proposed erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
2. The applicant shall clarify how the isolator row connects to the rest of the filtration system. Submit detail.
3. The applicant shall submit a revised erosion control plan that shows construction entrances for sediment tracking prevention.
4. The applicant shall submit the final set of signed construction plans.
5. The applicant shall submit a signed maintenance agreement for the proposed stormwater facilities.
6. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan for the proposed stormwater facilities.
7. The applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP).
8. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.
9. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

**Project Contacts**  
 Mark Burgess, AIA  
 C | 612-616-3136  
 mark.burgess@uplusb.com  
 Jill Bills, AIA  
 O | 612-670-2538  
 jill.bills@uplusb.com  
 Fiona Wholey, AIA  
 O | 612-670-2538  
 fiona.whooley@uplusb.com

**Rehder & Associates, Inc.**  
 Civil Engineers, Planners and Land Surveyors  
 4315 Grand Drive, Suite 100, Maple Grove, MN 55126  
 612-424-7043 • Fax: 612-424-9741 • Email: rehder@raia.com  
 EDDMKT No. 210602, DRAWING FILE: 2018004.FRLK



**FROST LAKE**  
 100-YR. = 199.84  
 (PER RWMWD)  
 100-YR = 894.21

NOTE: SEE SHEET C4 FOR UTILITY, GRADING, EROSION CONTROL, INSPECTION, AND POLLUTION PREVENTION NOTES

**SITE PLAN REVIEW**  
 01/10/2020  
 Not For Construction  
**SPPS Frost Lake Elementary School**  
 1505 Hoyt Ave E  
 St. Paul, MN 55106  
 Project: 2018004\_FRLK

Drawings Issued	Date
SITE PLAN REVIEW	01/10/2020
DESIGN DEVELOPMENT	12/5/2019
50% DD	10/17/2019

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.

Signature  
 Printed Name  
 Registration Number

**GRADING, DRAINAGE, EROSION CONTROL & UTILITY PLAN**

**C3**



# Permit Application Coversheet

Date February 05, 2020

Project Name Johnson Parkway Trail

Project Number 20-06

Applicant Name Don Pflaum, City of St. Paul

Type of Development Trail

## Property Description

This project is located parallel to Johnson Parkway from approximately Burns Avenue to Phalen Boulevard in the City of St. Paul. The applicant is proposing to construct a paved trail. The total site area is 6.89 acres. A small portion of the project area is located in Capitol Region Watershed District (CRWD). CRWD has elected to defer permitting authority to Ramsey-Washington. An underground infiltration trench will be constructed to treat stormwater. Pretreatment will include sumped manholes with snouts. Additional locations were considered for permanent stormwater treatment, but poor soils and utility conflicts limited options for the applicant. The proposed design meets the District's linear cost cap.

## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i>                         | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |

## Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

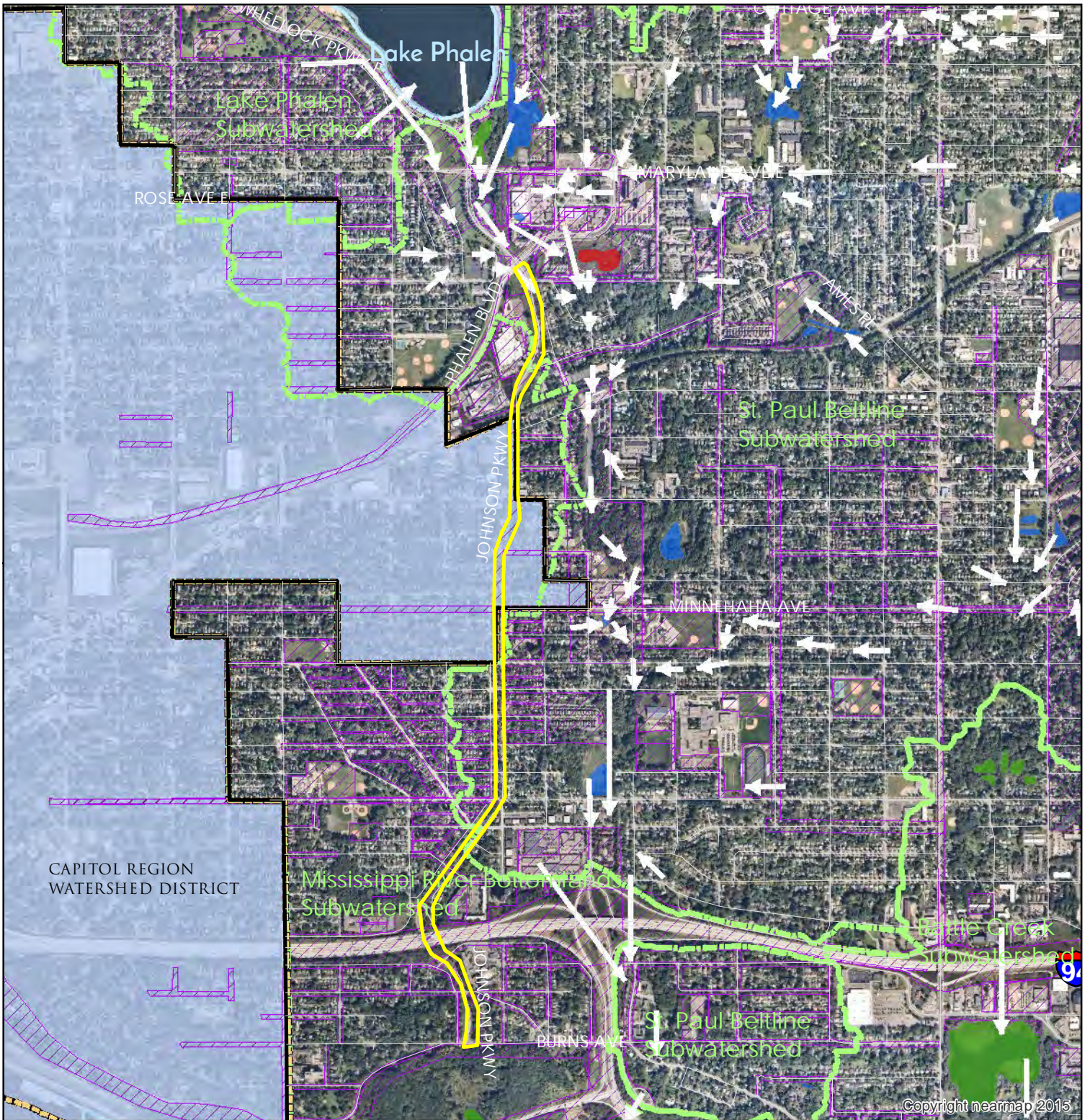
## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

## Attachments:

- Project Location Map
- Project Grading Plan

# #20-06 Johnson Parkway Trail



Note: Shaded area is outside RWMWD

**Wetlands**

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- RWMWD Boundary
- WMU
- Flow Arrows
- Major Flow Arrows
- Subwatersheds
- Creeks
- Permits

Highlighted Areas  
Represent Active Permit

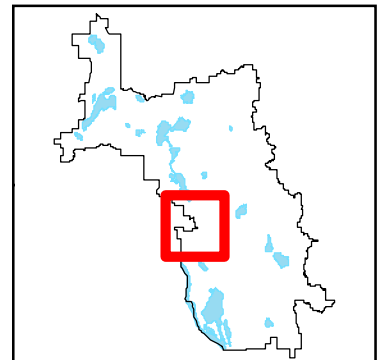
0      1,250      2,500

Feet

0      0.2      0.4

Miles

N



Copyright nearmap 2015

20-06

### Special Provisions

1. The applicant shall submit the final set of signed construction plans.
2. The applicant shall submit the final geotechnical report.
3. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

# Permit Application Coversheet

Date February 05, 2020

Project Name John Glenn Middle School Addition

Project Number 20-07

Applicant Name Mike Boland, ISD 622

Type of Development Institutional

## Property Description

This project is located at the existing John Glenn Middle School in the City of Maplewood. The applicant is proposing to complete safety improvements on the site including separate drop off, bus loading, parking areas, paths, and walkways. The project will also include a building addition and relocation of the recess area. The total site area is 9.2 acres. Two underground infiltration systems are proposed to treat stormwater. Pretreatment will include sumps and Preserver manholes.

## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i>                         | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |

## Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

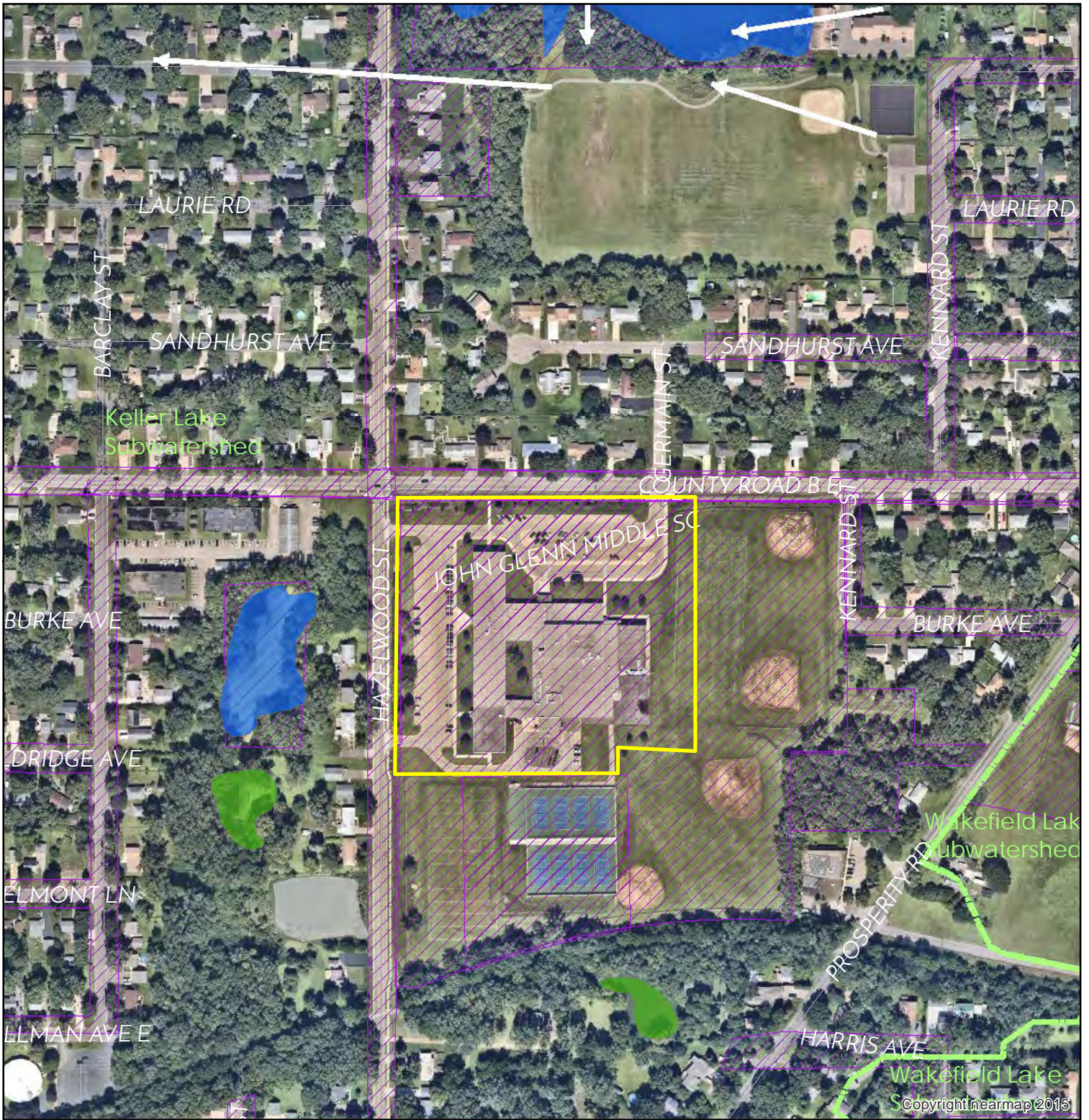
## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

## Attachments:

- Project Location Map
- Project Grading Plan

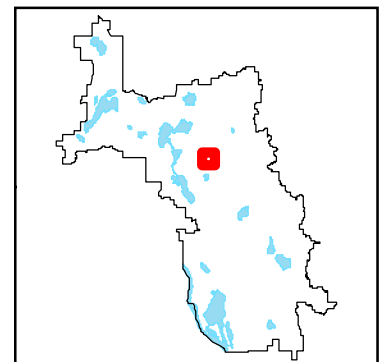
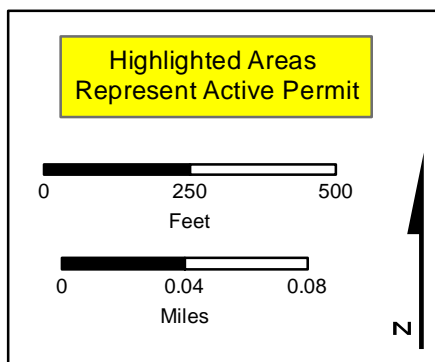
# #20-07 John Glenn Middle School Addition



**Wetlands**

<span style="color: red;">■</span>	Manage A
<span style="color: green;">■</span>	Manage B
<span style="color: blue;">■</span>	Manage C
<span style="color: lightblue;">■</span>	Lake
<span style="color: gray;">■</span>	Sediment Pond
<span style="color: purple;">■</span>	Not Assessed

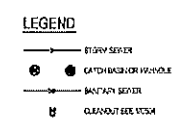
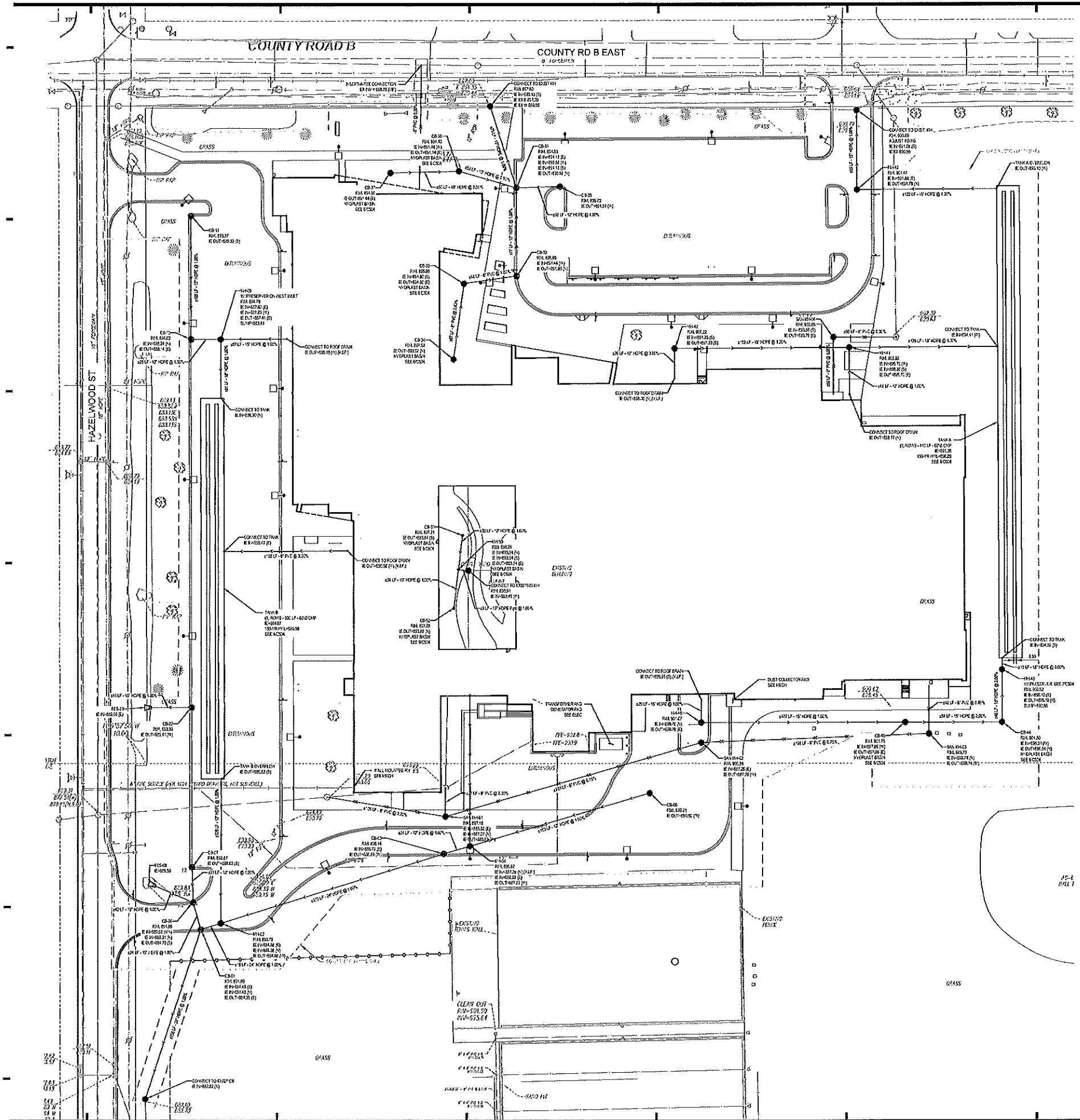
	RWMWD Boundary
	Flow Arrows
	Major Flow Arrows
	Subwatersheds
	Creeks
	Permits



20-07

### Special Provisions

1. The applicant shall submit the final set of signed construction plans.
2. The applicant shall submit a joint stormwater maintenance agreement with the City of Maplewood.
3. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



- GENERAL NOTES**
1. PROTECT ALL UTILITIES AND/OR EXISTING UTILITIES THAT ARE NOT TO BE MOVED. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BY CALLING 811 BEFORE ANY EXCAVATION. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BY CALLING 811 BEFORE ANY EXCAVATION. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BY CALLING 811 BEFORE ANY EXCAVATION.
  2. EXISTING UTILITIES ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY DATA. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BY CALLING 811 BEFORE ANY EXCAVATION. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BY CALLING 811 BEFORE ANY EXCAVATION.
  3. SEE LOCATIONS SHOWN FOR LOCATION ONLY. REFER TO ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
  4. UNLESS OTHERWISE NOTED, ALL UTILITIES SHALL BE CONTRACTOR PER'S CARE.
  5. ADJUST ALL PIPES AND DRAINAGES TO FINISH GRADE.
  6. PREVENT CONSTRUCTION FROM INTERFERING WITH EXISTING UTILITIES.
  7. TRACKER PIPES SHALL BE INSTALLED PER SDSD HAS 11-01-2015 IN THE SPECIFICATION.
  8. SANITARY PIPE CONNECTION TO MAINLINE SHALL BE INSTALLED PER SDSD.

SDSD  
**School District 622**  
 NORTH ST. PAUL | MAPLEWOOD | OAKDALE  
*Ready for tomorrow*

THIS SQUARE APPEARS IN LIST ON PLAN SHEET

3	1-13-19	DESIGN REVIEW
2	1-22-19	PERMISSION REVIEW
1	1-21-19	ISSUANCE OF PERMIT
10	DATE	REVISION

**PRELIMINARY**  
 NOT FOR CONSTRUCTION  
 1/15/2019

**WARNING**  
 LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR, CALL BEFORE DIGGING.  
 MINNESOTA ONE-CALL SYSTEM  
 1-800-252-1166  
 REQUIRED BY MN STATUTE 216D

PROJECT NAME  
**JOHN GLENN MIDDLE SCHOOL ADDITION AND RENOVATION**  
 1560 COUNTY RD B E  
 MAPLEWOOD MN 55109  
 UTILITY PLAN

# Permit Application Coversheet

Date February 05, 2020

Project Name Meadowood Villas Project Number 20-08

Applicant Name Steve Embretson, Baton Building Company, LLC

Type of Development Residential

## Property Description

This project is located at Century Ave South and Poplar Drive in the City of Woodbury. The applicant is proposing to construct 13 single-family homes including utilities, driveways, and an extension of the existing dead end at Poplar Drive. The total site area is 4.2 acres. A filtration basin will be constructed to meet stormwater treatment requirements. Filtration is being proposed due to poor soils. Pretreatment will include a wet pond. The applicant has submitted a variance request for temporary wetland buffer impacts to accommodate some site grading. The impacted areas will be restored with a native seed mix. The wetland impact shown on the plans was approved last year in order for the city to construct a flood control berm to protect existing homes (permits #19-21, 19-07 WCA). This work has been completed.

## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> <i>Wetlands</i>              | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |

## Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

## Staff Recommendation

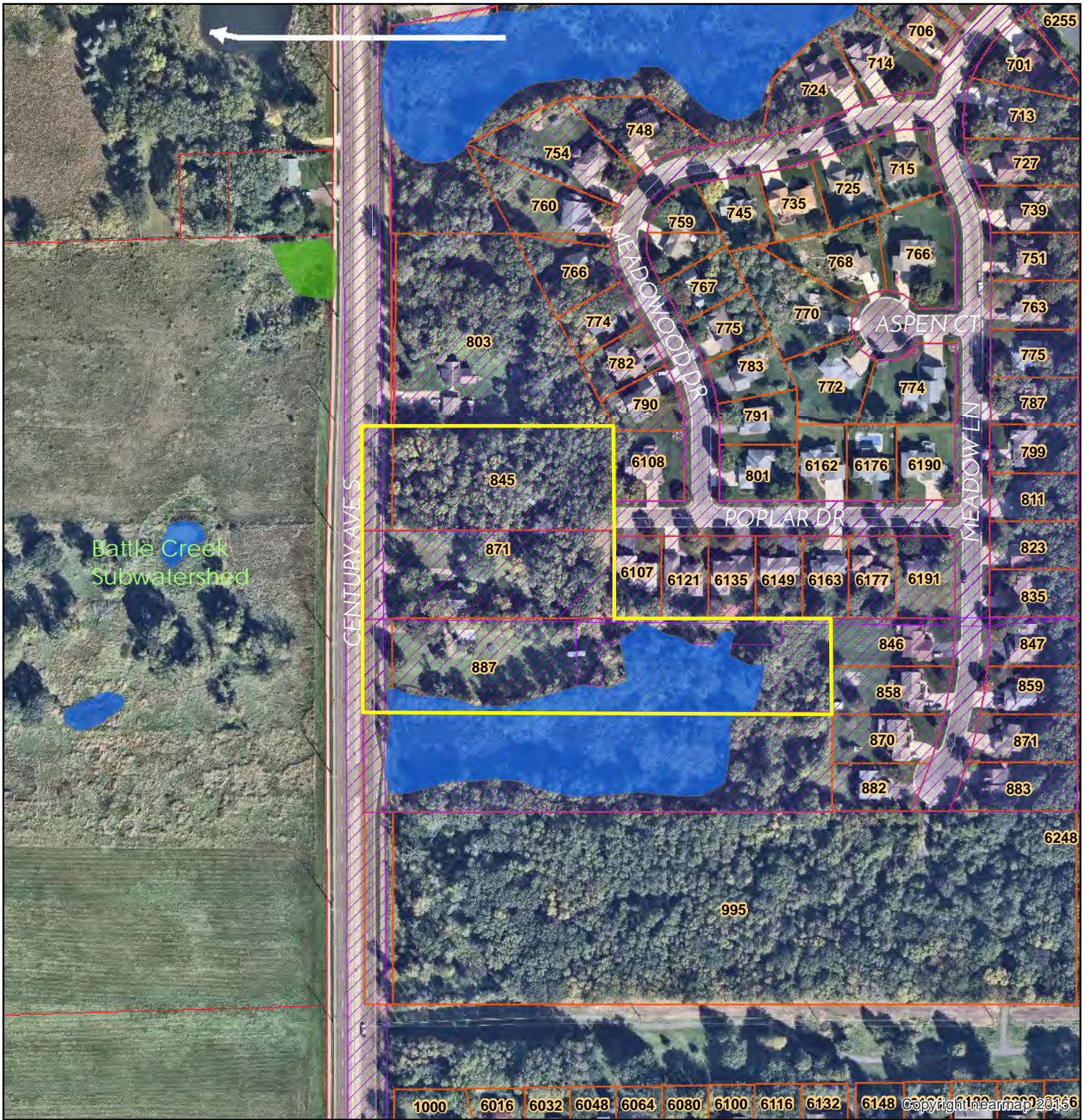
Staff recommends approval of this permit with the special provisions and variance request.

## Attachments:

- Project Location Map
- Project Grading Plan



# #20-08 Meadowood Villas



**Wetlands**

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- RWMWD Boundary
- Flow Arrows
- ➔ Major Flow Arrows
- Subwatersheds
- Creeks
- Permits
- Ramsey Co Parcels
- Washington Co Parcels

Highlighted Areas  
Represent Active Permit

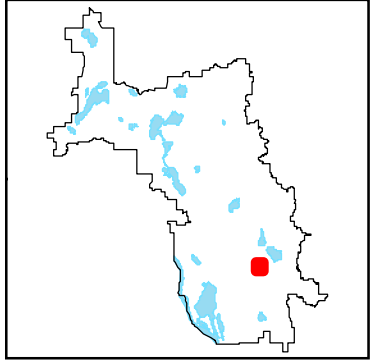
0      175      350

Feet

0      0.03      0.06

Miles

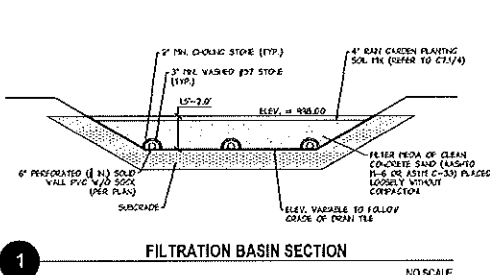
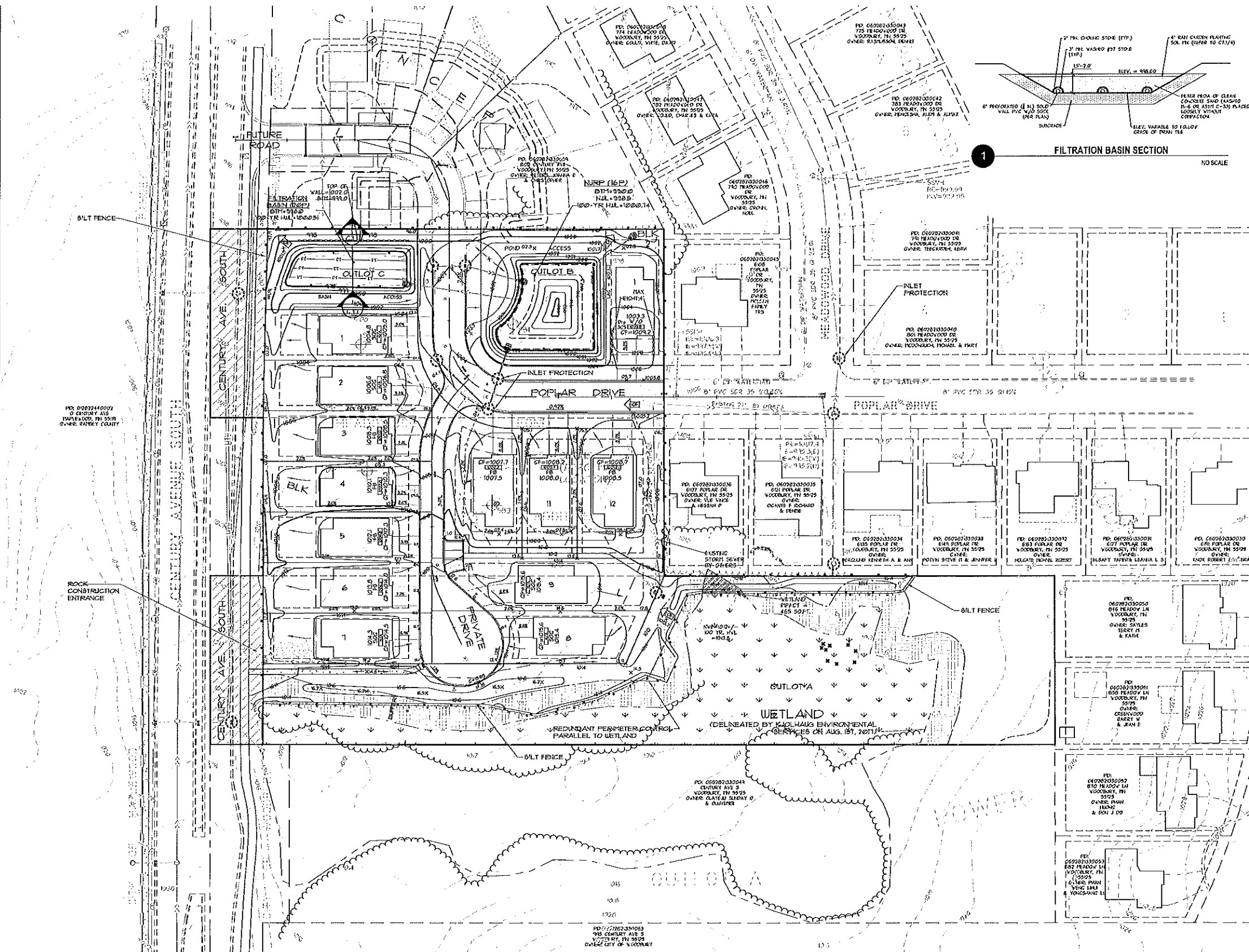
N



20-08

### Special Provisions

1. The applicant shall submit the escrow fee of \$21,200.
2. The applicant shall submit the final set of signed construction plans.
3. The applicant shall submit a signed maintenance agreement for the proposed stormwater facilities.
4. The applicant shall submit a draft, site-specific BMP Operations and Maintenance Plan for the proposed stormwater facilities.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Permit coverage for the project.



- GENERAL NOTES**
- FOR CONSTRUCTION STAKING AND SURVEYING SERVICES CONTACT LANDFORM AT 612.252.9070.
  - INSTALL PERIMETER SEDIMENT CONTROLS PRIOR TO BEGINNING WORK AND MAINTAIN FOR DURATION OF CONSTRUCTION. REMOVE CONTROLS AFTER AREAS CONTRIBUTING RUNOFF ARE PERMANENTLY STABILIZED AND DISPOSE OF OFF SITE.
  - LIFT SOIL DISTURBANCE TO THE GRADING LIMITS SHOWN. SCHEDULE OPERATIONS TO MINIMIZE LENGTH OF EXPOSURE OF DISTURBED AREAS.
  - MANAGEMENT PRACTICES SHOWN ARE THE MINIMUM REQUIREMENT. INSTALL AND MAINTAIN ADDITIONAL CONTROLS AS WORK PROGRES TO PREVENT EROSION AND CONTROL SEDIMENT CARRIED BY WIND OR WATER.
  - REFER TO SWPPP NOTES ON SHEET C32 FOR ADDITIONAL REQUIREMENTS.
  - EXCAVATE PONDS EARLY IN THE CONSTRUCTION SEQUENCE. REMOVE SEDIMENT FROM PONDS PERIODICALLY AND AFTER AREAS CONTRIBUTING RUNOFF ARE PERMANENTLY STABILIZED.
  - CONTRACTOR SHALL PREVENT SEWAGE LAPEN WATER FROM ENTERING THE FILTRATION SYSTEM UNTIL THE SITE IS COMPLETELY STABILIZED.
  - REFER TO SWPPP NOTES SHEET FOR STABILIZATION REQUIREMENTS.
  - SEED, SOO, MULCH AND FERTILIZER SHALL MEET THE FOLLOWING SPECIFICATIONS, AS NOTED.
 

SEED	SPECIFICATION NUMBER
300 SEED	INDOT 3870
CONTROL	IN DOT 3876
MULCH	IN DOT 3802
(25DOT TYPE 1 @ 2 TON/AC, DSC ANCHORED)	
FERTILIZER	IN DOT 386
GENERAL PLACEMENT	IN DOT 2575
  - SEE LANDSCAPE SHEETS FOR PERMANENT TURF AND LANDSCAPE ESTABLISHMENT.
  - SCRAPE ADJACENT STREETS CLEAN DAILY AND SWEEP CLEAN WEEKLY.
- GRADING NOTES**
- CONTACT UTILITY SERVICE PROVIDERS FOR FIELD LOCATION OF SERVICES 72 HOURS PRIOR TO BEGINNING GRADING.
  - REFER TO THE GEOTECHNICAL REPORT PREPARED BY ALLED TEST DRILLING COMPANY, DATED 12/26/2006, FOR ADDITIONAL INFORMATION ON BACKFILL MATERIAL AND GROUNDWATER CONDITIONS.
  - REMOVE TOPSOIL FROM GRADING AREAS AND STOCKPILE SUFFICIENT QUANTITY FOR REUSE. MATERIALS MAY BE TINED FROM LANDSCAPE AREAS FOR USE ON SITE AND REPLACED WITH EXCESS ORGANIC MATERIAL WITH PRIOR OWNER APPROVAL.
  - REMOVE SURFACE AND GROUND WATER FROM EXCAVATIONS. PROVIDE INITIAL LISTS OF STABLE FOUNDATION MATERIAL F EXPOSED SOILS ARE WET AND UNSTABLE.
  - ROUGH GRADE BUILDING PAD TO 12 INCHES BELOW FINISHED FLOOR ELEVATION (FFE).
  - REFER TO HOUSE PAD DETAILS FOR HOLD DOWNS.
  - AN INDEPENDENT TESTING FIRM SHALL VERIFY THE REMOVAL OF ORGANIC AND UNSUITABLE SOILS, SOIL CORRECTION AND COMPACTION AND PROVIDE PERIODIC REPORTS TO THE OWNER.
  - PLACE AND COMPACT FILL USING LIFT THICKNESSES MATCHED TO SOIL TYPE AND COMPACTION EQUIPMENT TO OBTAIN SPECIFIED COMPACTION THROUGHOUT THE LIFT.
  - AVOID SOIL COMPACTION OF FILTRATION PRACTICES. ANY EQUIPMENT USED IN FILTRATION AREAS SHOULD BE SMALL SCALED AND TRACKED. INSTALL PROTECTIVE FENCING AS SHOWN.
  - ALL MASS SITE GRADING ACTIVITIES SHALL BE COMPLETED AND A GRADING AS-BUILT SURVEY SUBMITTED TO CITY STAFF AS OUTLINED IN THE LAND DISTURBANCE REQUIREMENTS PRIOR TO ANY UTILITY AND STREET IMPROVEMENTS BEING CONSTRUCTED ON SITE. PLAN SHALL BE UPDATED TO INCLUDE THIS STATEMENT.
- PAVING NOTES**
- SPOT ELEVATIONS AT CURB LINES INDICATE FLOW LINES UNLESS NOTED OTHERWISE. SEE SHEET C4.1 FOR R/R ELEVATIONS OF CATCH BASINS.
  - GRADES BETWEEN PROPOSED SPOT ELEVATIONS SHALL BE CONTINUOUS AND NON-VARIABLE. SPOT ELEVATIONS SHALL GOVERN OVER CONTOUR LINES.
  - PAVING SECTIONS (PER CITY OF WOODBURY STANDARD PLATES)
    - BITUMINOUS PAVING (LIGHT DUTY)
      - 1.5-INCH TYPE SP 9.5 BITUMINOUS WEAR (3C) (IN DOT 2360, SP#EA3300)
      - TACK COAT (IN DOT 2357)
      - 2.5-INCH TYPE SP 12.5 BITUMINOUS BASE (3C) (IN DOT 2360, SP#EB3300)
      - 8-30% AGGREGATE BASE (1.5) (IN DOT 3103)
      - AGGREGATE SUB-BASE AS DIRECTED BY ENGINEER (IN DOT 3149.2B2)
      - COMPACTED SUBSOIL.
    - CONCRETE DRIVES, APRONS, AND EXTERIOR SLABS
      - 6-INCH CONCRETE, 4000 PSI, 5% AIR ENTRAINED, MAX. 4" SLOPE (IN DOT 2301)
      - 4-INCH AGGREGATE BASE (IN DOT 3103)
      - COMPACTED SUBSOIL.
  - ADJUST ALL STRUCTURE R/R'S TO MATCH PAVEMENT ELEVATIONS.

**DEVELOPER**

**BATON BUILDING COMPANY LLC**  
 7374 KIRKWOOD COURT  
 MAPLE GROVE, MINNESOTA 55369  
 TEL: 612.262.0583

**MUNICIPALITY**

**CITY OF Woodbury**  
 MINNESOTA

**PROJECT**

**MEADOWOOD VILLAS**  
 WOODBURY, MINNESOTA

**SHEET INDEX**

SHEET	FILE
C01	CIVIL & LANDSCAPE SITE SHEET
C02	PRELIMINARY PLAN
C03	EXISTING CONDITIONS AND DRAINAGE
C04	SITE PLAN
C05	EROSION CONTROL, PAVING & EROSION CONTROL
C06	30 SCALE POND PLAN
C07	SWPPP NOTES
C08	GRADES
C09	CIVIL CONSTRUCTION DETAILS
C10	LANDSCAPE PLAN
C11	TREE PRESERVATION
C12	LANDSCAPE DETAILS

**ISSUE / REVISION HISTORY**

DATE	ISSUE / REVISION	REVISION
20 NOV 2018	SKETCH PLAN SUBMITTAL	RDH
16 JAN 2019	ADDED WETLAND IMPACT AREA TIT	RDH
21 MAR 2019	PRELIM PLAN SUBMITTAL	RDH
30 APR 2019	PRELIM PLAN RE-SUBMIT TO PERM INL	RDH
	CITY APPROVALS	
10 JULY 2019	PRELIM PLAN RE-SUBMIT	RDH
14 AUG 2019	REVISIONS PER CITY STAFF FEEDBACK	RDH
02 OCT 2019	REV. PER CITY COMMENTS LETTER	RDH
26 NOV 2019	CITY SUBMITTAL	RDH
27 JAN 2020	REVISIONS PER WATERSHED COMMENTS	RDH
27 JAN 2020	REVISIONS PER WATERSHED COMMENTS	RDH

**PROJECT MANAGER REVIEW**

BY RDH DATE 01/21/2020

**CERTIFICATION**

**PRELIMINARY NOT FOR CONSTRUCTION**

IF THE OUTLINE SEAL OR PAVEMENT IS NOT SHOWN ON THIS SHEET, THE SHEET HAS BEEN PREPARED BEFORE THE PROPOSED REAR LIFT AND SLOTTING AT A LOCATION WHERE CONTACT THE ENGINEER TO REQUEST ADDITIONAL DOCUMENTS.

**LEGEND**

SYMBOL	DESCRIPTION	ESTIMATED QUANTITY	SYMBOL	DESCRIPTION
	INLET PROTECTION	4 EACH		PAVEMENT SAWCUT
	SILT FENCE	2,560 FEET		CONSTRUCTION LIMITS
	VEHICLE TRACKING PAD	1 EACH		WETLAND BUFFER
	EROSION CONTROL BLANKET	3,957 SF		WETLAND FILL
	FILTER MEDIA			SUBGRADE

**811**  
 Know what's Below.  
 Call before you dig.

**NORTH**

0 50 100

**PRELIM. PLAT SUBMITTAL**  
 01.21.2020

**LANDFORM**  
 From Site to Finish

105 South Fifth Avenue Tel: 612-252-9070  
 Suite 513 Fax: 612-252-9077  
 Minneapolis, MN 55401 Web: landform.net

FILE NAME: C3018A1001.DWG  
 PROJECT NO.: BATI1001

**GRADING, DRAINAGE AND EROSION CONTROL**  
**C3.1**  
 SHEET NO. 5/12

# MEMO



105 South Fifth Avenue    Tel: 612-252-9070  
Suite 513    Web: landform.net  
Minneapolis, MN 55401

DATE    01-23-2020  
TO    Nicole Soderholm  
CC    Randy Hedlund  
FROM    Jeremy Borchardt  
RE    Wetland Buffer Variance

---

We are formally requesting a Wetland Buffer variance for Meadowood Villas. The purpose of the impact is to perform some grading in order to build the berm and protect the wetland buffer. The impact will be temporary and reseeded per the landscape plan.



BATON BUILDING COMPANY LLC  
7374 KIRKWOOD COURT  
MAPLE GROVE, MINNESOTA 55369  
TEL: (612)990-0368



MEADOWOOD VILLAS  
WOODBURY, MINNESOTA

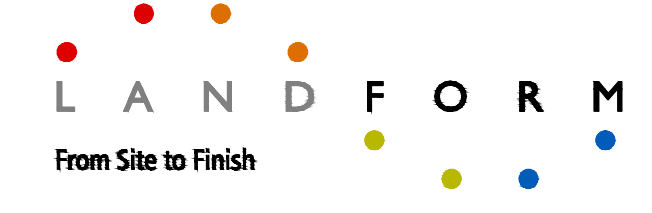
SHEET	TITLE
C01	CIVIL & LANDSCAPE TITLE SHEET
C02	PRELIMINARY PLAT
C11	EXISTING CONDITIONS AND DEMOLITION
C21	SITE PLAN
C31	GRADING, DRAINAGE, PAVING & EROSION CONTROL
C32	20 SCALE POND PLAN
C41	UTILITIES
C71	CIVIL CONSTRUCTION DETAILS
L21	LANDSCAPE PLAN
L22	TREE PRESERVATION
L71	LANDSCAPE DETAILS

DATE	ISSUE / REVISION	REVIEW
20 NOV 2018	SKETCH PLAN SUBMITTAL	RCH
16 JAN 2019	ADDED WETLAND IMPACT AREA TXT	RCH
21 MAR 2019	PRELIM. PLAT SUBMITTAL	RCH
30 APR 2019	PRELIM. PLAT RE-SUBMIT TO MEET MIN. CITY REQUIREMENTS	RCH
10 JULY 2019	PRELIM. PLAT RE-SUBMIT	RCH
14 AUG 2019	REVISIONS PER CITY STAFF MEETING	RCH
02 OCT 2019	REV. PER CITY COMMENT LETTER	RCH
26 NOV 2019	CITY SUBMITTAL	RCH
21 JAN 2020	REVISIONS PER WATERSHED COMMENTS	RCH

BY RCH DATE 01.21.2020

**PRELIMINARY NOT FOR CONSTRUCTION**

PRELIM. PLAT SUBMITTAL  
01.21.2020



105 South Fifth Avenue Tel: 612-252-9070  
Suite 513 Fax: 612-252-9077  
Minneapolis, MN 55401 Web: landform.net

FILE NAME L201BAT001.DWG  
PROJECT NO. BAT17001

LANDSCAPE PLAN

L2.1

SHEET NO. 10/12

PLANT SCHEDULE

CODE	QTY	BOTANICAL / COMMON NAME	MATURE SIZE	PLANTING SIZE	ROOT COND.
ARNW	11	ACER RUBRUM 'NEW WORLD' / NEW WORLD RED MAPLE	45' H X 15' W	2.5" CAL	B & B
ASFF	7	ACER SACCHARUM 'FALL FIESTA' / FALL FIESTA SUGAR MAPLE	60' H X 50' W	2.5" CAL	B & B
BENI	10	BETULA NIGRA / RIVER BIRCH	50' H X 30' W	2.5" CAL	B & B
BNSS	8	BETULA NIGRA 'SHLOH SPLASH' / SHLOH SPLASH BIRCH	30' H X 15' W	2" CAL	B & B
CEOC	2	CELTIS OCCIDENTALIS / COMMON HACKBERRY	60' H X 50' W	3" CAL	B & B
GTIS	8	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM / SHADEMASTER HONEYLOCUST	50' H X 30' W	2.5" CAL	B & B
MALS	7	MALUS X 'SPRING SNOW' / SPRING SNOW CRAB APPLE	25' H X 20' W	2" CAL	B & B
OV	5	OSTRYA VIRGINIANA / AMERICAN HOPHORNBEAM	45' H X 35' W	2.5" CAL	B & B
PIDE	12	PRUNELLA GLAUCA 'DENSATA' / BLACK HILLS SPRUCE	40' H X 20' W	6" HT.	B & B
PR	6	PINUS RESINOSA / RED PINE	60' H X 40' W	6" HT.	B & B
PISY	5	PINUS SYLVESTRIS / SCOTCH PINE	50' H X 30' W	8" HT.	B & B
QUB2	11	QUERCUS BICOLOR / SWAMP WHITE OAK	60' H X 45' W	2.5" CAL	B & B
SYR2	9	SYRINGA RETICULATA 'IVORY SILK' / IVORY SILK JAPANESE TREE LILAC	25' H X 15' W	2.5" CAL	B & B
TILG	6	TILIA CORDATA 'GREENSPIRE' / GREENSPIRE LITTLELEAF LINDEN	50' H X 30' W	3" CAL	B & B
ULMP	5	ULMUS AMERICANA 'PRINCETON' / PRINCETON ELM	60' H X 40' W	2.5" CAL	B & B
AI	27	ASCLEPIAS INCARNATA / SWAMP MILKWEED	4' H X 3' W	#1 CONT.	POT
AT	39	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	2' H X 3' W	#1 CONT.	POT
AL	39	ASTER LAEVIS / SMOOTH BLUE ASTER	4' H X 3' W	#1 CONT.	POT
EP	27	ECHINACEA PURPUREA / PURPLE CONEFLOWER	3' H X 3' W	#1 CONT.	POT
LP	24	Liatris pycnostachya / PRAIRIE BLAZING STAR	4' H X 2' W	#1 CONT.	POT
LC	36	LOBELIA CARDINALIS / CARDINAL FLOWER	3' H X 3' W	#1 CONT.	POT
SL	19	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM GRASS	3' H X 3' W	#1 CONT.	POT
SP	21	SPARTINA PECTINATA / PRAIRIE CORDGRASS	5' H X 3' W	#1 CONT.	POT
SOD			376 SQ YDS		

TREE MITIGATION CALCULATIONS

TREES FOR REPLACEMENT	
3" CALIPER TREES	8 = 24
2.5" CALIPER TREES	63 = 157.5
2" CALIPER TREES	15 = 30
6' HEIGHT TREES	18 = 45
8' HEIGHT TREES	5 = 15
CALCULATION	279.0 INCHES
REPLACEMENT REQUIRED	1125.4
DIFFERENCE	846.0

LANDSCAPE NOTES

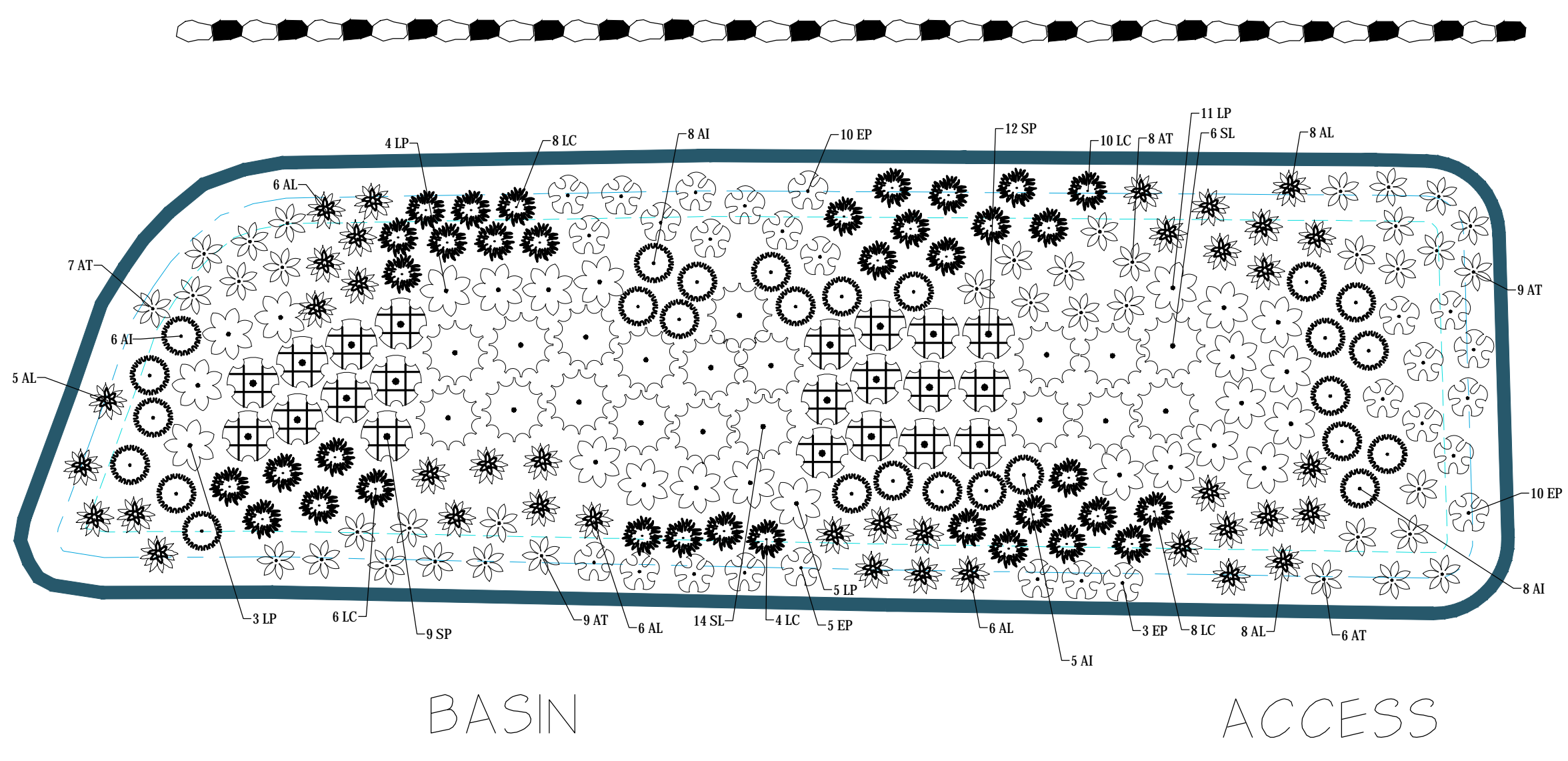
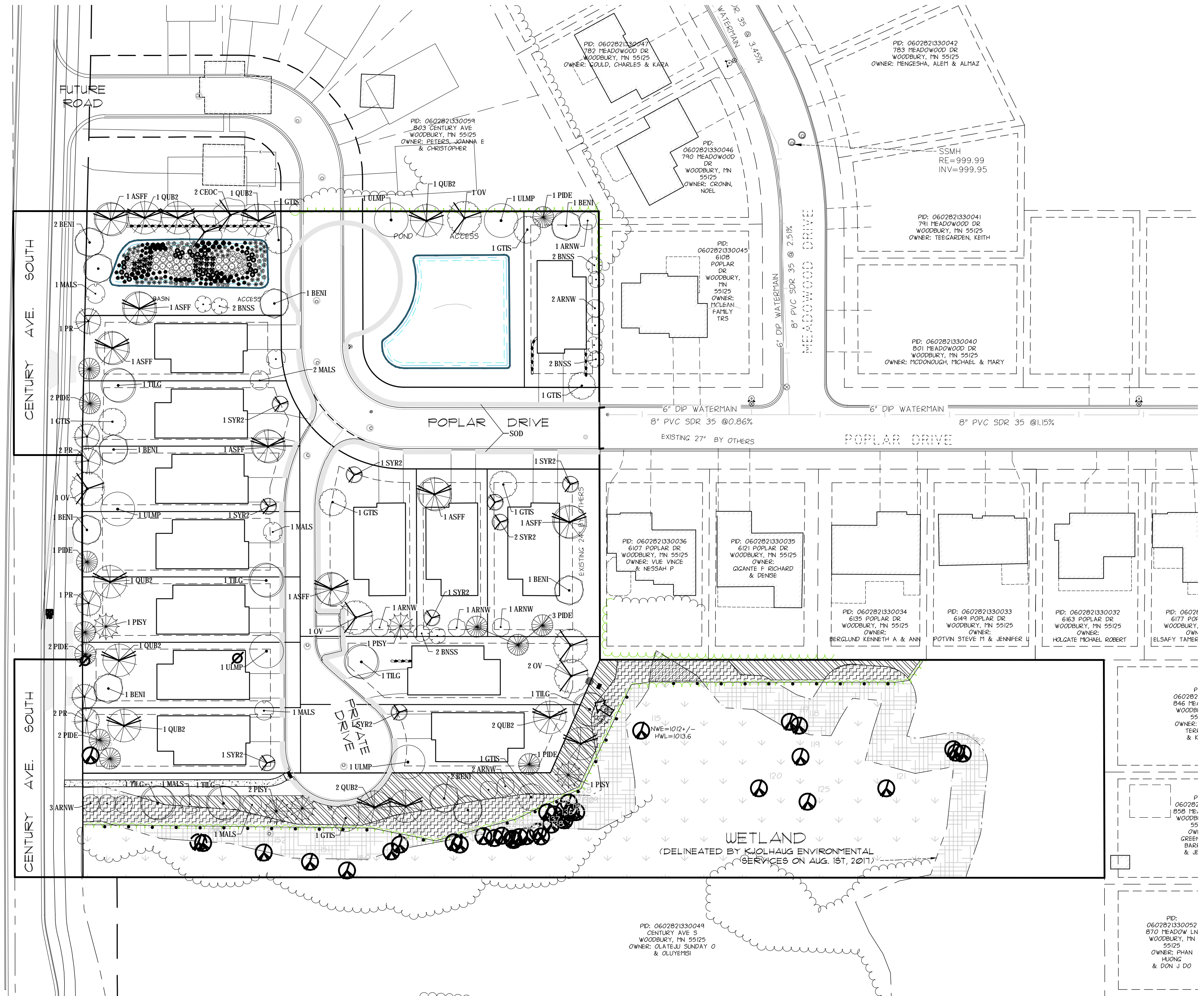
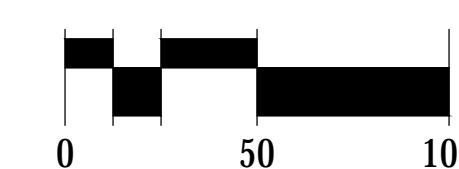
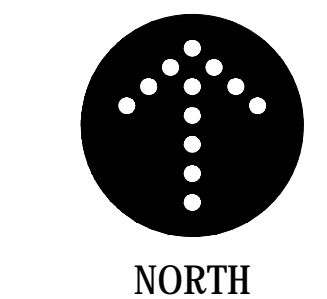
- ALL PLANT MATERIALS SHALL CONFORM WITH THE MOST CURRENT ADDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE OF HARDY STOCK, FREE FROM DISEASE, DAMAGE AND DISFIGURATION.
- INSTALL A FOUR (4) FOOT DIAMETER TRIPLE SHREDDED HARDWOOD MULCH DISH AROUND ALL TREES IN TURF AREAS (TO A DEPTH OF FOUR (4) INCHES).
- EDGE ALL SHRUB BEDS WITH SIX (6) INCH BLACK VINYL EDGING (BLACK DIAMOND OR APPROVED EQUAL).
- ALL NATIVE SEEDING USED ON THIS PROJECT SHALL BE CERTIFIED TO BE OF MINNESOTA (OR AS SPECIFIED) ORIGIN BY THE MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCA). DOCUMENTATION VERIFYING THE ORIGIN OF THIS SEED SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT AT LEAST 30 DAYS PRIOR TO INSTALLATION DATE.
- LANDSCAPE CONTRACTOR SHALL FOLLOW SEEDING METHOD, SEEDING INSTALLATION, AND SITE PREPARATION AS PER THE MNDOT SEEDING MANUAL 2014 UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS OR IN THE SPECIFICATION BOOKLET.
- SPREAD A MINIMUM OF FOUR (4) INCHES OF TOPSOIL AND SEED/SOD ALL TURF AREAS DISTURBED BY CONSTRUCTION.
- QUANTITIES LISTED ON PLANT SCHEDULE ARE TOTAL QUANTITIES FOR DESIGN. CONTRACTOR SHALL PLACE PLANTS ACCORDING TO LAYOUT WITH PROPER SPACING. THE AREA INDICATED AND THE SPACING OF PLANTS SHALL GOVERN FINAL QUANTITIES OVER QUANTITY LISTED IN PLANT SCHEDULE.

LEGEND

- EMERGENT WETLAND SEED MIX (SEED AT RATE OF 5.0 LBS/ACRE.) (BWSR 34-181 OR APPROVED EQUAL)
- MESIC PRAIRIE GENERAL SEED MIX (SEED AT RATE OF 36.5 LBS/ACRE.) (BWSR 35-241 OR APPROVED EQUAL)
- SOD
- WETLAND BUFFER



Know what's Below. Call before you dig.





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** February 5, 2020  
**To:** Board of Managers and Staff  
**From:** Nicole Soderholm, Permit Coordinator  
**Subject:** January Enforcement Action Report

During January 2020:

**Number of Violations:** 0

#### **Activities:**

Permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration and procedures, pre-application meetings, MS4 workshop, MECA conference

#### **Project Updates:**

Permit #17-32 Villas of Gem Lake

Staff conducted an inspection on January 28<sup>th</sup> and discovered several stockpiles without perimeter control and stabilization, as well as street tracking. Staff emailed a report to all necessary site contacts with strict timelines for repairs. Staff will follow up with site contacts to ensure all issues are repaired.

Permit #19-44 5 Star Mobile Estates Soil Correction

Staff met with contractors and project managers on January 27<sup>th</sup> for a routine inspection. All necessary BMPs were in place and well-maintained. Staff communicated in person and via email the requirements for stabilization once hauling is complete. Contractors will be contacting staff once stabilization is installed for a final winter inspection. Staff will visit the site again in the spring to monitor vegetation growth.

#### #19-46 Snail Lake Beach Improvements

Staff conducted an inspection on January 17<sup>th</sup>. All necessary erosion and sediment control BMPs were properly installed, including a floating silt curtain within Snail Lake. Staff notified site contacts of the inspection and inquired on the placement of beach sand. Site contacts communicated that grading and sand placement still need to be completed once we reach thawed conditions. Staff will continue to monitor the site and meet with onsite personnel once work begins again in spring.

#### #18-13 Trails Edge Apartments

Staff met with onsite contractors on January 15<sup>th</sup> to observe erosion and sediment control BMP improvements, as well as to make note of any other needed improvements. District staff detailed several items that will need to be repaired once we reach spring thaw including inlet protection, perimeter control and stabilization. Onsite contractors will notify staff once work begins again in spring.

The following sites were inspected on January 28<sup>th</sup>:

- #18-24 Roseville Luxury Apartments
- #17-22 Willow Ridge Apartments II
- #18-30 Morrie's Mercedes-Benz
- #19-27 Shoreview Commons
- #19-30 White Bear Lake Apartments
- #17-28 Roseville Senior Living

All sites had anti-tracking BMPs installed, and there was no evidence of sediment tracking. Due to snow cover and frozen conditions, all other erosion and sediment control BMPs could not be inspected.

#### **Permits Closed in January 2019:**

None

## MEMORANDUM

**Date:** February 5, 2020  
**To:** RWMWD Board of Managers  
**From:** Nicole Soderholm, Permit Coordinator  
**Subject:** #19-21 WCA Gold Line Wetland Replacement Plan

Project applicant Metro Transit attended the October 2nd, 2019 board meeting to introduce the Gold Line Bus Rapid Transit project (BRT) that is currently in the design and permitting phase. At this meeting, project representatives discussed an overview of the proposed urban transportation corridor and summarized the coordination leading up to applying for permits with various agencies and undergoing federal environmental review. Proposed wetland impacts, stormwater treatment, and floodplain mitigation were summarized.

Metro Transit has since submitted a Wetland Conservation Act (WCA) joint application to RWMWD staff. The District is the sole LGU (Local Government Unit) responsible for administering WCA for this project, although many relevant agencies have been included in planning efforts. Portions of the application are included for the board's review. The report is close to 300 pages, so I've provided the sections I believe to be most relevant for decision making. Additional information can be provided to the board if requested.

The joint application for wetland impacts associated with the Gold Line was noticed to the Technical Evaluation Panel (TEP) and various other agencies on November 15th, 2019. An in-person meeting was held with the TEP on December 9th, 2019 to discuss the application. Few comments were submitted during the comment period. They are summarized in the enclosed Findings of Fact dated December 18th, 2019. A federal environmental FONSI (Finding of No Significant Impact) was issued on January 17th, 2020. Metro Transit submitted a revised, final joint application that addresses the TEP's remaining comments on January 22nd, 2020.

The application proposes 0.97 acre of permanent wetland impact, of which 0.36 acre is considered incidental wetland and a 'no loss' pursuant to WCA 8420.0105.2.D. Incidental wetlands are unintentionally created, in this case due to past site grading which left a depression in the landscape that has developed wetland characteristics over time. This results in 0.61 acre of wetland impacts that require replacement through WCA. An additional 0.34 acre of temporary impacts are proposed which will be restored upon project completion.

Metro Transit is proposing to purchase wetland bank credits from Washington and Hennepin counties at a 2:1 replacement ratio to meet WCA requirements.

**Metro Transit is requesting RWMWD board approval of the joint application at the February meeting.** Staff recommends approval of the replacement plan and 'no loss' designation for the 0.36 acre of impact to Wetland 36-2.



**From:** [Nicole Soderholm](mailto:Nicole.Soderholm@rwmwd.org)  
**To:** [Nicole Soderholm](mailto:Nicole.Soderholm@rwmwd.org)  
**Subject:** RE: Metro Gold Line BRT Replacement Plan NOA  
**Date:** Wednesday, January 29, 2020 3:09:59 PM  
**Attachments:** [image004.png](#)

---

**From:** Nicole Soderholm <[nicole.soderholm@rwmwd.org](mailto:nicole.soderholm@rwmwd.org)>

**Sent:** Friday, November 15, 2019 2:58 PM

**To:** Meyer, Ben (BWSR) ([Ben.Meyer@state.mn.us](mailto:Ben.Meyer@state.mn.us)) <[Ben.Meyer@state.mn.us](mailto:Ben.Meyer@state.mn.us)>; 'Schumann, Michael P' <[michael.schumann@CO.RAMSEY.MN.US](mailto:michael.schumann@CO.RAMSEY.MN.US)>; 'jriggs@mnwcd.org' <[jriggs@mnwcd.org](mailto:jriggs@mnwcd.org)>; [leslie.parris@state.mn.us](mailto:leslie.parris@state.mn.us); 'jenifer.sorensen@state.mn.us' <[jenifer.sorensen@state.mn.us](mailto:jenifer.sorensen@state.mn.us)>; Jenny, Melissa <[Melissa.M.Jenny@usace.army.mil](mailto:Melissa.M.Jenny@usace.army.mil)>

**Cc:** Johnson, Chelsa ([Chelsa.Johnson@metrotransit.org](mailto:Chelsa.Johnson@metrotransit.org)) <[Chelsa.Johnson@metrotransit.org](mailto:Chelsa.Johnson@metrotransit.org)>; Alison Harwood ([aharwood@wsbeng.com](mailto:aharwood@wsbeng.com)) <[aharwood@wsbeng.com](mailto:aharwood@wsbeng.com)>; 'elizabeth.a.brown@state.mn.us' <[elizabeth.a.brown@state.mn.us](mailto:elizabeth.a.brown@state.mn.us)>; [wes.saunders-pearce@ci.stpaul.mn.us](mailto:wes.saunders-pearce@ci.stpaul.mn.us); Elizabeth Hosch <[EHosch@capitolregionwd.org](mailto:EHosch@capitolregionwd.org)>

**Subject:** Metro Gold Line BRT Replacement Plan NOA

Hello TEP,

Please see attached Notice of Application for a replacement plan through purchase of banked credits for proposed wetland impacts associated with the Metro Gold Line Bus Rapid Transit project. I'd like to convene a TEP meeting to go over the application in more detail. Please respond to the Doodle poll link below with your availability, and forward to anyone you believe I have missed. ***If you don't feel like you need or want to attend, please let me know as it will help me with scheduling.***

<https://doodle.com/poll/ayurb2wqgttvbi6b>

Due to file size, WSB has provided a link to access the full application. This link will be active for 3 months: <https://wsbeng.sharefile.com/d-s4ae89a782134d6ea>

The applicant is proposing to permanently impact 0.97 acre of wetland. Pursuant to WCA 8420.0105.2.D, it has been requested that 0.36 acre be considered a 'no loss' due to a requested incidental wetland designation. Temporary impacts are estimated at 0.34 acre.

I'd like to note that Metro Transit is still in the design phase of the project with 100% plans expected in August of 2021. This application is meant to reflect the most conservative (or worst case) impacts such that if there are changes to the impacts during refinement of design, the final impact area will decrease.

Let me know if you have questions or have trouble accessing any of the files.

Thanks,

**Nicole Soderholm**

Permit Coordinator | Ramsey-Washington Metro Watershed District  
2665 Noel Dr | Little Canada, MN 55117 | Direct: 651-792-7976

[www.rwmwd.org](http://www.rwmwd.org)

*\*If you are on this e-mailing list and do not wish to receive future correspondence for this project, please let me know.*

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District		<b>County:</b> Ramsey, Washington
<b>Applicant Name:</b> Metropolitan Council	<b>Applicant Representative:</b> Chelsa Johnson	
<b>Project Name:</b> Metro Gold Line BRT Replacement Plan		<b>LGU Project No. (if any):</b> 19-21 WCA
<b>Date Complete Application Received by LGU:</b> 11/11/19		
<b>Date this Notice was Sent by LGU:</b> 11/15/19		
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 12/9/19		

<sup>1</sup> minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications

**WCA Decision Type - check all that apply**

<input type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input checked="" type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input checked="" type="checkbox"/> No-Loss (8420.0415)		<input type="checkbox"/> Exemption (8420.0420)	
Part: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

**Replacement Plan Impacts (replacement plan decisions only)**

<b>Total WCA Impact Area Proposed:</b> 0.61 acre (permanent), 0.34 acre (temporary), 0.36 acre (permanent, requesting no loss approval due to requested incidental wetland designation per WCA 8420.0105.2.D.)
--

**Application Materials**

<input type="checkbox"/> Attached <input checked="" type="checkbox"/> Other <sup>1</sup> (specify): WSB file transfer link
--

<sup>1</sup> Link to ftp or other accessible file sharing sites is acceptable.

**Comments on this application should be sent to:**

<b>LGU Contact Person:</b> Nicole Soderholm
<b>E-Mail Address:</b> nicole.soderholm@rwmwd.org
<b>Address and Phone Number:</b> 2665 Noel Drive, Little Canada MN 55117 651-792-7976
<b>Decision-Maker for this Application:</b>
<input type="checkbox"/> Staff <input checked="" type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):

**Notice Distribution (include name)**

*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member: Mike Schumann (Ramsey County), Jay Riggs (Washington Conservation District)
<input checked="" type="checkbox"/> BWSR TEP Member: Ben Meyer
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):
<input checked="" type="checkbox"/> DNR Representative: Jen Sorensen, Leslie Parris
<input type="checkbox"/> Watershed District or Watershed Mgmt. Org.:
<input checked="" type="checkbox"/> Applicant (notice only): Chelsa Johnson <input checked="" type="checkbox"/> Agent/Consultant (notice only): Alison Harwood

*Optional or As Applicable:*

<input checked="" type="checkbox"/> Corps of Engineers:
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):

Members of the Public (notice only):

Other:

Beth Brown (MnDOT), Wes

Saunders-Pearce (City of St. Paul), Elizabeth Hosch (Capitol Region Watershed District)

Signature:



Date:

11/15/19

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.

## Minnesota Wetland Conservation Act Technical Evaluation Panel Form

This form can be used to document TEP findings and recommendations related to WCA decisions, determinations, enforcement and pre-application reviews.

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District (RWMWD)	
<b>County:</b> Ramsey, Washington	
<b>Landowner/Applicant:</b> Metropolitan Council	<b>Agent/Representative(s):</b> Chelsa Johnson
<b>Project Name:</b> Metro Gold Line BRT Replacement Plan	<b>Project No. (if any):</b> 19-21 WCA
<b>Project Location:</b> Roughly parallel to I-94 from downtown St. Paul to Helmo Ave in Oakdale, then south along Bielenberg Dr to Woodbury Village	

**Purpose of TEP Findings/Recommendation - check all that apply and describe**

<input type="checkbox"/> Pre-application review <input checked="" type="checkbox"/> Application Review (related to WCA Decision) <input type="checkbox"/> Local Government Road Wetland Replacement Program Eligibility <input type="checkbox"/> WCA Determination Request <input type="checkbox"/> Other (specify): <b>Describe:</b> In-person meeting to review application and summary of comments received
---

**Meeting Type – check all that apply and specify dates as applicable**

<input checked="" type="checkbox"/> In-Person Meeting(s), Date(s): <b>12/9/19</b> <input type="checkbox"/> Electronic Exchanges (email, skype, etc.) <input type="checkbox"/> Onsite Review(s), Date(s): <input checked="" type="checkbox"/> Other (specify): <b>Verbal discussion and comments during comment period</b>
--

**Findings and Recommendations**

<p>Timeline of Replacement Plan Actions/Activities:</p> <p>8/19/19: TEP pre-application meeting          9/5/19: Conference call between LGU and Gold Line project staff (GPO)          10/2/19: RWMWD board meeting presentation: project overview, introduction of anticipated wetland impacts, preliminary stormwater information          10/29/19: WCA Joint application submitted.          11/6/19: Additional item requested by LGU.          11/11/19: Complete application determination.          11/15/19: Notice of Application sent to members of TEP.          12/9/19: In-person meeting to discuss application. Attendees: Nicole Soderholm (RWMWD), Ben Meyer (BWSR), Melissa Jenny (USACE), Chelsa Johnson (GPO), Alison Harwood (WSB), Tracy Fosmo, Lyssa Leitner, David Filipiak (SRF), Ed Sanderson (GPO)          12/9/19: End of TEP comment period.</p> <p>During comment period, comments/responses received:</p> <p>Beth Brown (MnDOT): Confirmed no comments or questions on application.          TEP members (Ben Meyer, Jay Riggs, Nicole Soderholm): The biggest concern is the impacts to Wetland 48-1. The City of Oakdale’s future development goals are not necessarily a valid or direct reason that the current project’s proposed impacts cannot be minimized further –however, the associated property</p>
--

permissions/restrictions could be considered a barrier. Is there formal documentation to the affect that the city prohibits further encroachment on their property?

Findings/Conclusions:

- Continue efforts to further minimize impacts throughout the corridor.
- Submit some formal documentation confirming that the City of Oakdale prohibits further encroachment on to their property and therefore impacts to Wetland 48-1 cannot be minimized further. Update Section 8.3.3 as needed.
- Avoidance and minimization efforts described for the remainder of the project are generally acceptable to the TEP members present.
- Clarify the language in Section 8.5 regarding floodplain mitigation and stormwater BMPs as 'surface water features.' This is potentially misleading.
- Continue to work with USFWS on endangered species, special considerations.
- Submit final wetland bank credit withdrawal documentation. Update Section 9.2.

Attachment(s) (specify):

**DNR Protected Waters and Shoreland Protection Zone**

Will the project/activity affect DNR public waters, DNR public waters wetlands or wetlands within the shoreland protection zone?  Yes  No If yes, DNR representative is a member of the TEP.

**Signatures**

LGU TEP Member: **Nicole Soderholm**  
 No

Agree with Findings & Recommendations:  Yes

Signature: *nicole soderholm*

Date: 12/18/19

SWCD TEP Member: **Jay Riggs**

Agree with Findings & Recommendations:  Yes  No

Signature: *Jay Riggs*

Date: 12-17-19

BWSR TEP Member: **Ben Meyer**

Agree with Findings & Recommendations:  Yes  No

Signature: *Benjamin L. Meyer*

Date: 12/16/2019

DNR TEP Member:

Agree with Findings & Recommendations:  Yes  No

Signature:

Date:



## I. PART ONE: APPLICANT INFORMATION

### Project

METRO Gold Line Bus Rapid Transit Project

### Applicant/Landowner

Name: Metropolitan Council

Address: 390 Robert Street North, St. Paul, MN 55101

Phone: (651) 602-1000

### Authorized Contact

Name: Chelsa Johnson

Address: METRO Gold Line Bus Rapid Transit Project Office, 121 7<sup>th</sup> Place East, Suite 102, St. Paul, MN 55101

Phone: (651) 602-1997

Email: Chelsa.johnson@metrotransit.org

### Agent

Name: Alison Harwood

Address: WSB, 701 Xenia Avenue South, Suite 300, Minneapolis, MN 55416

Phone: (763) 231-4847

Email: aharwood@wsbeng.com



## 2. PART TWO: SITE LOCATION INFORMATION

### Counties

Ramsey  
Washington

### Cities

St. Paul  
Maplewood  
Landfall  
Oakdale  
Woodbury

### Local Government Units (LGUs)

Ramsey Washington Metro Watershed District  
Minnesota Department of Transportation (MnDOT)  
City of St. Paul (waived to RWMWD)

### Parcel ID and/or Address

The Project spans numerous Parcel IDs and addresses. The Project is roughly parallel to Interstate 94 (I-94) from St. Paul to Helmo Avenue in the City of Oakdale. The dedicated route heads south along Bielenberg Drive ending at Woodbury Village in the City of Woodbury.

### Legal Description (Entire Corridor)

T28 R21 (Sections: 5, 6, 8)  
T28 R22 (Sections: 1, 2, 3, 4, 5, 6)  
T29 R21 (Sections: 31, 32)  
T29 R22 (Sections: 31, 32, 33, 34, 35, 36)

### Lat/Long (Decimal Degrees)

East End: 44.945392, -93.103034  
Center Point: 44.951574, -93.0114823  
West End: 44.930525, -92.96773



Approximate Size

Linear: 10 miles

Evidence of Ownership/Requisite Property Rights

The applicant would acquire permanent right of way and temporary construction easements as needed prior to construction of the Project. Portions of the Project within MnDOT Right-of-Way (ROW) would be authorized under a ROW Use Agreement subject to approval by the Federal Highway Administration.

Additional Known Permits/Approvals Required for Project

**TABLE 2-1: SUMMARY OF APPLICABLE REGULATORY REQUIREMENTS**

Agency	Permit	Status
Department of Natural Resources	Work in Public Waters	To be applied for
Ramsey-Washington Metro Watershed District	Permit	To be applied for
MN Pollution Control Agency	NPDES Construction Stormwater	To be applied for

Special Considerations

The applicant reviewed the Project for potential impacts to cultural resources and rare species. Below is a summary of the findings.

**Cultural Resources:** Architectural/historic properties are located within the Area of Potential Effect for the Project. If the Federal Transit Administration (FTA) determines the Project would have an adverse effect on a historic property, FTA will consult with the State Historic Preservation Office and other consulting parties per the terms of the Programmatic Agreement to consider avoidance, minimization and/or mitigation measures to resolve the adverse effect. Measures may include a protection plan for historic properties to specify requirements for contractors that would minimize the effects of construction activities.

**Threatened/Endangered Species:** The Project was reviewed for potential impacts to Federal and State Threatened and Endangered Species. Species reported within the study area of the Project include:

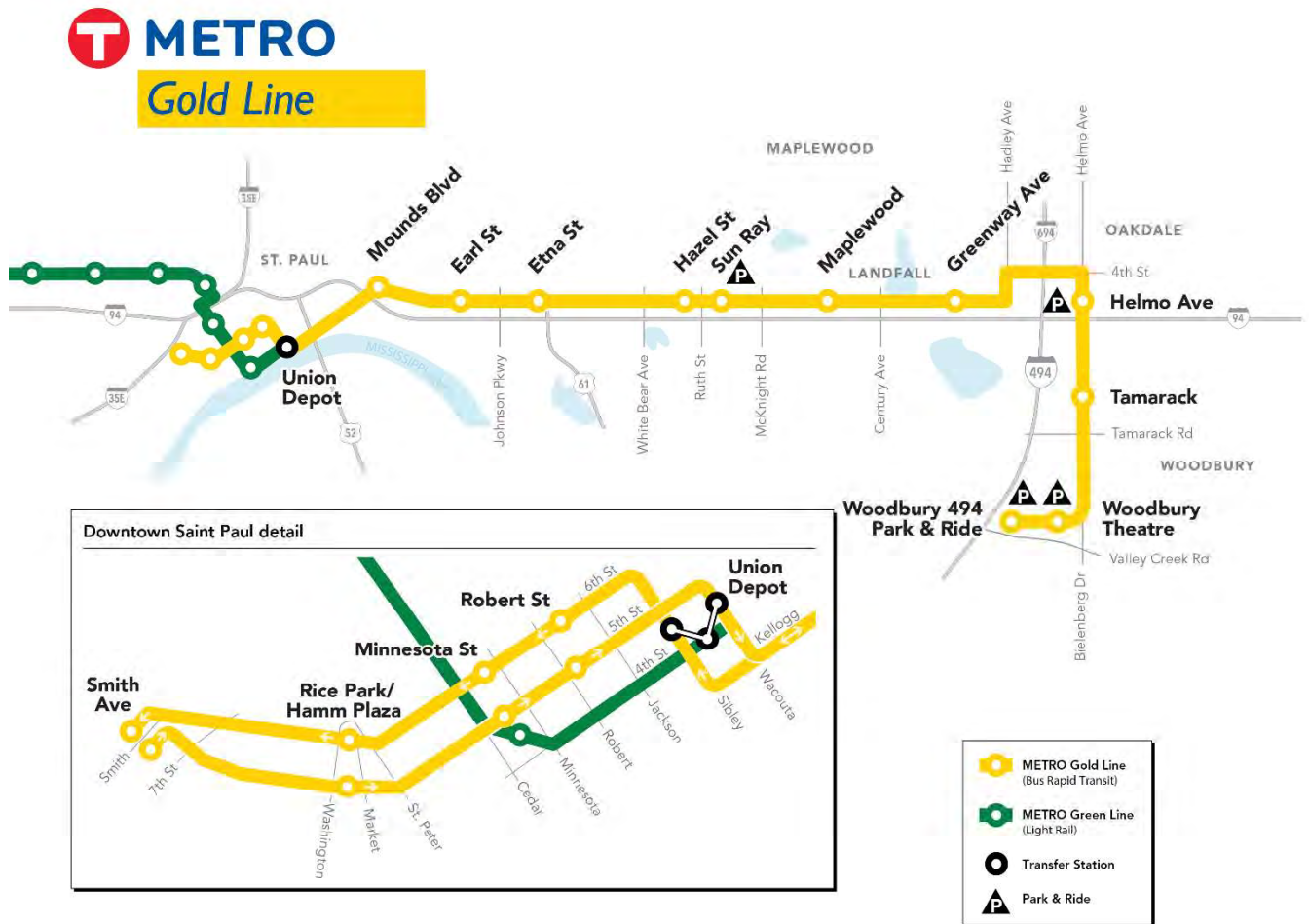
- Northern long-eared bat – The Council will implement appropriate avoidance and minimization measures for bridge work, temporary and permanent lighting, and tree removal, so the Project will not adversely impact the northern long-eared bat.
- Rusty-patched bumblebee (RPBB) – Habitat for the bee exists within ¼ mile of the Project. FTA will work with the USFWS on the construction schedule to avoid impacting the availability of floral resources during the active season, approximately March 15 through October 15, as well as activities that would impact RPBB overwintering season. To mitigate for impacts, the FTA will revegetate disturbed areas with a native seed mix that will provide floral benefit to the bumblebee and modify mowing schedules to benefit the bee’s habitat. Given the proposed avoidance and mitigation measures, the USFWS has determined that the project may affect but is not likely to adversely affect the bumblebee.
- Four endangered mussel species are within the study area of the project, but the project will not impact the habitat of these species so no adverse impacts are expected.



- Kitten-tails – No records of this species exist within the limits of disturbance. No project-related impacts are anticipated.
- Peregrine falcon – After evaluating the study area and considering the falcons' preferred nesting areas, the Council does not anticipate Project-related impacts to this species.
- Blanding's turtle – Records of this species occur within 1 mile of the Project, but none within the potential limits of disturbance. The Council does not expect impacts to this species but will implement measures to minimize impacts to the turtle.
- Jumping spider – Records of this delisted species occur within 1 mile of the Project, but none within the potential limits of disturbance. The Council does not expect impacts to this species.
- Leadplant flower moth – Records of this species occur within 1 mile of the Project but none within the potential limits of disturbance. The Council does not expect impacts to this species.

### 3. PART THREE: GENERAL PROJECT/SITE INFORMATION

FIGURE 3-1: PROJECT MAP



#### 3.1 Project Description

The Project is a planned 10-mile transitway located in Ramsey and Washington counties in the eastern part of the Twin Cities Metropolitan Area (Figure 3-1). The Project generally would operate parallel to Interstate 94 (I-94) and would better connect downtown Saint Paul with the suburban cities of Maplewood, Landfall, Oakdale and Woodbury.

More broadly, the Project would better connect the eastern Twin Cities Metropolitan Area to the regional transit network via the Union Depot multimodal hub in downtown Saint Paul. The Project also intends to serve and draw



ridership from other portions of the metropolitan area, including portions of eastern Washington County, Dakota County to the south, and the City of Minneapolis and Hennepin County to the west.

The Project would include all-day, bi-directional transit service that operates from 5 a.m. to midnight on weekdays and weekends between the existing Smith Avenue Transit Center in downtown Saint Paul and a new station near the Woodbury Theatre and I-494 in Woodbury. The Project includes 10 stations in downtown Saint Paul, including two new stations at Union Depot, and 11 stations along the remainder of the alignment. The Project would operate in a guideway dedicated only to transit buses for 66 percent of its route and in mixed traffic for 34 percent. The dedicated guideway is new roadway being constructed for the Project.

Starting at the west end of the corridor in downtown Saint Paul, the Project includes the following alignments:

#### *Alignment A1*

- Would include all-day routing operating from 5 a.m. to midnight on weekdays and weekends, terminating at the Smith Avenue Transit Center in downtown Saint Paul. All-day BRT service would support convenient transfers for riders to more existing and planned transit routes in downtown Saint Paul.
- Westbound buses would travel on Kellogg Boulevard in mixed traffic, turning right and making a first downtown stop at the Union Depot/Sibley Street Station.
- Buses heading north along Sibley Street would run in mixed traffic before turning west on 6th Street, traveling in dedicated bus lanes with stops at the 6th Street/Robert Street Station and the 6th Street/Minnesota Street Station.
- Westbound buses would travel in mixed traffic after Wabasha Street, stopping at the Hamm Plaza Station before terminating at the existing Smith Avenue Transit Center.
- Heading eastbound, buses would first stop at the Smith Avenue/5th Street Station, traveling in mixed traffic along 5th Street, with a stop at the Rice Park Station.
- Eastbound buses enter dedicated bus lanes after Wabasha Street and would stop at the 5th Street/Cedar Street Station and the 5th Street/Robert Street Station before turning south on Wacouta Street.
- Eastbound buses would run in mixed traffic along Wacouta Street with a final downtown stop at Union Depot/Wacouta Street Station before continuing east on Kellogg Boulevard in mixed traffic.
- Buses leave downtown in mixed traffic on the Kellogg Boulevard Bridge, travelling to the Mounds Boulevard intersection.

#### *Alignment B*

- Buses would begin at the intersection of Kellogg Boulevard and Mounds Boulevard in Dayton's Bluff and travel to White Bear Avenue mostly in dedicated guideway.
- From the Mounds Boulevard Station, buses would head east on the northeast side of Mounds Boulevard and along the I-94 off-ramp in dedicated guideway.
- The Project would reconstruct the westbound I-94 off-ramp at Mounds Boulevard to accommodate the guideway, pedestrian connections and a noise barrier.
- Between Wilson Avenue and Johnson Parkway, buses would run in the dedicated guideway located between a modified Hudson Road and I-94.
- Buses would stop at the Earl Street Station and cross over Johnson Parkway on a new BRT-exclusive bridge.



- Buses would run in the dedicated guideway along the north side of the TH 61 interchange before stopping at the Etna Street Station.
- Buses would operate on a new BRT-exclusive bridge over the Wilson Avenue/Etna Street/TH 61 intersection, staying north of I-94 and its interchange ramps.
- The Project would shift the TH 61 westbound ramp to I-94 slightly south to accommodate the guideway and a noise barrier.
- At the intersection of Old Hudson Road and Hudson Road, buses would transition into mixed traffic before continuing in dedicated guideway east of Kennard Street, passing under the White Bear Avenue Bridge.

#### *Alignment C*

- Buses would begin at White Bear Avenue and end on the west side of the 4th Street Bridge over I-694.
- From White Bear Avenue, buses would continue east in a dedicated guideway on the north side of I-94, stopping at Hazel Street Station, passing under Ruth Street, and stopping at the Sun Ray Station.
- Buses continue east in a dedicated guideway, crossing on a new pedestrian and BRT-exclusive bridge over McKnight Road.
- From McKnight Road, buses would transition to the north side of Hudson Road in a dedicated guideway, adjacent to the 3M campus, stopping at the Maplewood Station and then cross over Century Avenue on a pedestrian and BRT-exclusive bridge.
- Buses would operate in mixed traffic on the east side of Century Avenue and south of Tanners Lake.
- Near Tanners Lake, buses operate in mixed traffic until they stop at the Greenway Avenue Station, where they would enter a dedicated guideway split along the north and south sides of Hudson Boulevard; the split guideway would turn north and follow Hadley Avenue to 4th Street.
- Buses will enter a center running dedicated guideway as they turn east onto 4th street and cross a reconstructed bridge over I-694 before turning south near Helmo Avenue (instead of operating in mixed traffic and crossing I-694 on the existing bridge). The Project would reconstruct the bridge and include a pedestrian facility, dedicated guideway, and roadway lanes.

#### *Alignment D3*

- Buses would begin where 4th Street crosses the new bridge over I-694, then follow 4th Street east of I-694 in a center running guideway and turn south near Helmo Avenue, stopping at the Helmo Avenue Station.
- At the intersection of Helmo Avenue and Hudson Boulevard, buses would operate in a center running dedicated guideway and would continue south across I-94 on a new bridge, connecting to Bielenberg Drive on the south side of I-94, and continue south to the Tamarack Station.
- Buses would continue south on Bielenberg Drive in a center running guideway to Nature Path, where buses would then transition into mixed traffic.
- Buses would continue south in mixed traffic on Bielenberg Drive, turn west on Guider Drive in mixed traffic, stopping at the Woodbury Theatre Station and terminate at the Woodbury 494 Park-and-Ride Station, constructed west of the Woodlane and Guider Drive intersection.

The Project would incorporate several features to serve transit-riders and promote ridership. These features include stations, pedestrian and bicycle facilities, and park-and-ride facilities. Stations would be either walk-up or park-and-ride. Walk-up stations would not include designated parking for transit-riders whereas park-and-ride stations would



include a new or existing parking facility for transit-riders. The Project would include a total of 21 stations, as noted below:

- Union Depot/Sibley Street
- 6th Street/Robert Street
- 6th Street/Minnesota Street
- Hamm Plaza
- Smith Avenue/5th Street
- Smith Avenue/6th Street
- Rice Park
- 5th Street/Cedar Street
- 5th Street/Robert Street
- Union Depot/Wacouta Street
- Mounds Boulevard
- Earl Street
- Etna Street
- Van Dyke Street
- Sun Ray (new 150-space surface park-and-ride lot)
- Maplewood
- Greenway Avenue
- Helmo Avenue (new 100-space surface park-and-ride lot)
- Tamarack Road
- Woodbury Theatre (existing surface park-and-ride lot, utilizing 150 spaces)
- Woodbury 494 Park-and-Ride (new 200-space surface park-and-ride lot)

Except for those located in downtown Saint Paul, most stations would have a pair of platforms for westbound and eastbound buses. Stations would be approximately ½- to 1 mile apart outside of downtown. In downtown Saint Paul stations would be 2 to 3 blocks (approximately 0.15 to 0.30 miles) apart due to infrastructure constraints. Primary station elements would include platforms, off-board fare collection systems, shelters, wheelchair ramps and structural features such as heat, lights, benches, bike racks, trash receptacles, security systems, functional landscaping and information displays. Landscape features may include trees and other vegetation that would be introduced as part of the Project.

The Project is expected to benefit pedestrians and bicyclists by providing new pedestrian and bike facilities. The pedestrian and bike connections would be ADA-compliant, and all station platforms would be aligned with crosswalks for pedestrian safety. Other examples of improvements to pedestrian and bicycle facilities constructed with the Project include:

- Sidewalk bump-outs in downtown Saint Paul to provide more space for pedestrians
- Connections for easy access to stations
- Adding facilities to fill gaps between existing facilities and station areas

One existing park-and-ride facilities would be utilized for the Project and three new facilities would be constructed. The Project would utilize approximately 150 spaces at the existing Metro Transit express bus route park-and-ride at the Woodbury Theatre, and it would construct the following three park-and-ride facilities:

- At the Sun Ray Station in Saint Paul, a new park-and-ride surface lot with 150 spaces would be located north of the station, next to the existing Sun Ray Transit Center.
- At the Helmo Avenue Station in Oakdale, a new park-and-ride surface lot with 100 spaces would be located at the west side of the guideway near the new multimodal bridge that the Project would construct over I-94 that would connect Helmo Avenue and Bielenberg Drive.
- In Woodbury, a new park-and-ride would be located at Guider and Woodlane drives near I-494; this surface lot would have 200 parking spaces and a layover facility for BRT buses and drivers.



In addition to the above facilities, the Project would construct four new BRT-exclusive bridges that would cross the following roadways:

- Th 61/Etna Street
- Johnson Parkway
- McKnight Road
- TH 120/Century Avenue

The McKnight Road and Century Avenue bridges would also include a multiuse trail to provide grade-separated crossings at these high-traffic intersections.

The Project would also construct a new mixed traffic bridge at the crossing of I-94 connecting Helmo Avenue and Bielenberg Drive. This bridge would include a center running guideway, a multiuse trail and roadway lanes for local traffic. In addition, the existing bridge over I-694 at 4th Street would be reconstructed to accommodate a dedicated guideway and multiuse trail.

Finally, the Project would include transit-related improvements such as roadway modifications and pedestrian connections within the Project area. In general, most BRT stations would include direct pedestrian connections, both new and reconstructed, that would improve BRT operations, public safety and access to stations. Other potential improvements constructed with the Project include a pedestrian overpass at Maple Street, redecking of the Earl Street bridge in Saint Paul and underpasses for the dedicated guideway at White Bear Avenue and Ruth Street, which would optimize BRT operations and minimize impacts to traffic at these intersections. The Project would also relocate existing noise barriers along I-94 to accommodate the BRT dedicated guideway. The addition of retaining walls and implementation of stormwater best management practices would also be required for the Project.

## 3.2 Project History, Background, and Alternatives Evaluation

In 2010, the Washington County Regional Railroad Authority (WCRRRA) and Ramsey County Regional Railroad Authority initiated the Project, then called the Gateway Corridor. The joint powers Gateway Corridor Commission (GCC), which became the Gold Line Partners in 2016, guided policy decisions during the alternatives analysis study and alternatives development processes. The GCC was comprised of representatives from the cities and counties in which the Project is located, and the WCRRRA was the local lead agency. In 2017, the Council, which is the metropolitan planning organization for the Twin Cities Metropolitan Area, became the Project's local lead agency and responsible governmental unit for completing the environmental review and documentation process. The Gold Line Partners continues to engage with the public to inform and build support for the Project. The Council established the Corridor Management Committee (CMC) in early 2018 to advise the Council and counties on Project design and construction activities.

The Project alternatives are rooted in plans and studies dating back to 2008. These include feasibility studies, park-and-ride plans, managed lane studies, and long-range transportation plans, among others.

Seven alternatives were evaluated during the early design of the Project. A screening analysis evaluated a range of alternatives against the Project's purpose and need to eliminate or advance alternatives. Lake Elmo's action in 2015 to no longer support the project resulted in many of the alternatives no longer being viable. Below is a description of these alternatives, including the No-Build Alternative and the Locally Preferred Alternative, A1-BC-D3. Additional details regarding these alternatives is available in the Alternatives Technical Report in **Appendix A**.

- The No-Build Alternative – The No-Build Alternative would not build a bus rapid transit system. It is comprised of all the planned and programmed transportation projects by local government agencies in the Project Corridor, excluding the Project. While this alternative avoids wetland impacts caused by the Project, it does not meet the needs of the Project area as described in Section 8.1.
- A BRT-managed lane alternative was requested by FHWA (Figure 2.2-2 in **Appendix A**). This alternative was eliminated early because of station accessibility concerns, operational conflicts, and higher operating costs. Wetland impacts were not estimated for this alternative.



- The following were the four dedicated BRT alternatives and their estimated wetland impact. Alignment locations are described in detail in **Appendix A**.
  - ABC-D1-E1 (Figure 2.2-3 in **Appendix A**) – estimated impact 0.81 acre of wetland. The City of Woodbury did not support this alternative due to the potential for traffic conflicts on Radio and Woodbury Drives. Therefore, it was removed from further evaluation.
  - ABC-D2-E1 (Figure 2.2-3 in **Appendix A**) – This alternative was eliminated early due to traffic conflicts that would require significant and potentially costly mitigation in Woodbury. Wetland impacts were not estimated.
  - ABC-D2-E2 (Figure 2.2-3 in **Appendix A**) – estimated impact 0.60 acre of wetland. This alternative was not supported by the City of Lake Elmo and was removed from further evaluation.
  - ABC-D2-E3 (Figure 2.2-3 in **Appendix A**) – estimated impact 0.58 acre of wetland. This alternative was not supported by the City of Lake Elmo and was removed from further evaluation.
- A1-BC-D3 – this is the Locally Preferred Alternative (LPA). This alternative would impact 0.97 acres of wetland (0.61 acres of WCA-regulated wetland). Because the City of Lake Elmo was not supportive of the Project within their city, the GCC had to identify new alignments on the eastern end of the Project. A technical memorandum describing this and the impact it had on the project is in **Appendix A**. This change in the alignment accounts for the additional wetland impact when compared to the other alternatives because of the impact to Wetland 36-2 near the Woodbury Theatre. As discussed in Section 7.1 of this application, Wetland 36-2 is an incidental wetland and not regulated by WCA. Therefore, the changes in wetland impact between the preferred alternative and other alternatives are negligible. No feasible alternative exists that would reduce or eliminate wetland impacts further. Avoidance and minimization efforts are discussed in Section 8 of this application.

An eighth alignment, A2-BC-D3, included a different alignment in downtown St. Paul and was also evaluated during design of the project. However, this alignment change did not affect wetlands so is not discussed in this application.

In 2016, the GCC, the Cities of Oakdale, Maplewood, and Woodbury; the WCRRA; and the Ramsey County Regional Railroad Authority adopted Alternative A1-BC-D3 as the refined LPA. The Council required that only the cities where the change occurred needed to act; however, Maplewood opted to express formal support as well. The Cities of Saint Paul and Landfall did not need to act. The Council amended its 2040 TPP in October 2018 to include the refined LPA.

In April 2019, the Council adopted an administrative amendment to the 2040 TPP that extended the Project terminus in Woodbury from the Woodbury Theatre Station to the Woodbury 494 Park and Ride Station.

Wetland delineation for the project was approved in September 2018 (RWMWD No. 18-11 WCA). The USACE concurred with the boundaries in November 2018 (File No. 2014-00621-BBY). Locations of wetlands are shown in figures 3-2, 3-3, and 3-4 below. No wetlands are present along Alignments A or B.





FIGURE 3-2: ALIGNMENT C AND D3 WETLANDS

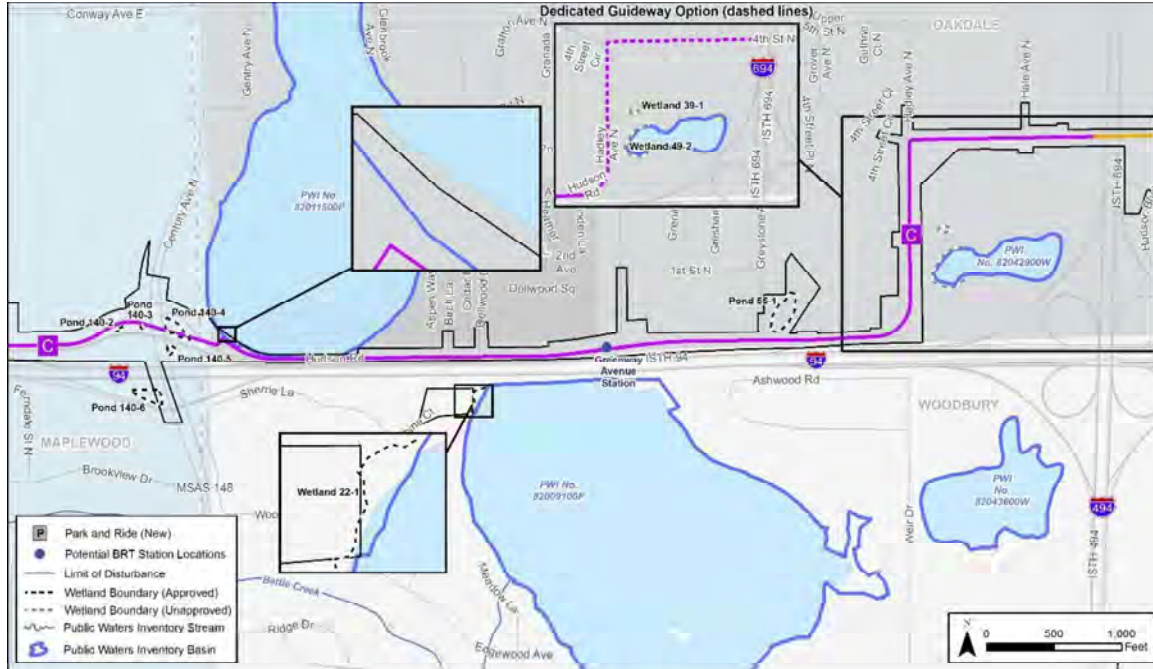
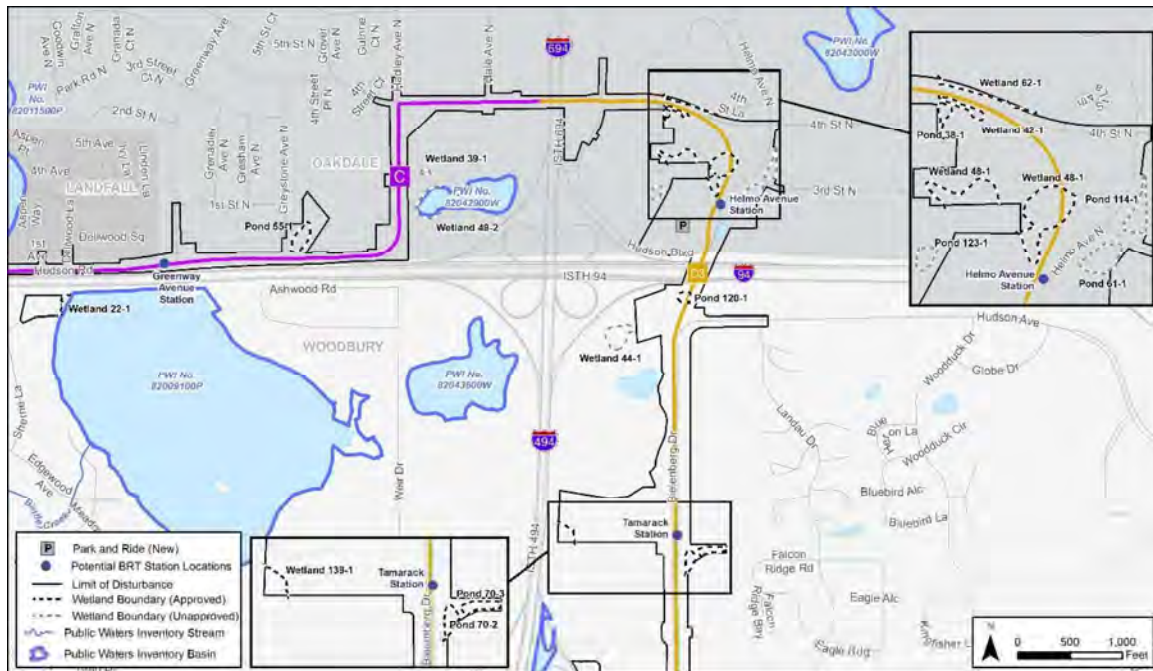


FIGURE 3-3: ALIGNMENT D3 WETLANDS



**FIGURE 3-4: ALIGNMENT D3 WETLANDS**



### 3.3 Anticipated Project Schedule for Implementation and Completion

Figure 3-5 outlines the Project schedule. The Environmental Assessment (EA) was published for public comment on October 7, 2019 and a Finding of No Significant Impact determination, the environment decision document, was signed January 17, 2020. Construction is expected to begin in 2021.

**FIGURE 3-5. PROJECT SCHEDULE**

PRE-PROJECT DEVELOPMENT	PROJECT DEVELOPMENT January 2018-January 2020	ENGINEERING 1-2 Years	CONSTRUCTION 2-3 Years	REVENUE SERVICE 2024
	EA Comment Period	Environmental Decision Documents Issued		
	<b>ENVIRONMENTAL REVIEW</b>	WCA/USACE Approval/Permit Received		
	Joint Application Submittal			
	<b>DESIGN ADVANCEMENT</b>			
<b>ONGOING PUBLIC ENGAGEMENT</b>				

## 4. PART FOUR: AQUATIC RESOURCE IMPACT SUMMARY

Aquatic resource impacts are shown on the exhibits in **Appendix B** and summarized in Tables 4-1, 4-2, and 4-3.

**TABLE 4-1: WCA REGULATED WETLAND IMPACTS**

Aquatic Resource ID	Aquatic Resource Type	Type of Impact	Duration of Impact	Size of Impact	Overall Size of Aquatic Resource	Existing Plant Community Types in Impact Area	County, Major Watershed #, and Bank Service Area of Impact Area
Wetland 22-1	Wetland	Fill	Permanent	147 SF	0.21 ac	Type 1	Washington, 20, 7
Wetland 22-1	Wetland	Remove Vegetation	Temporary (30 days)	0.02 ac	0.21 ac	Type 1	Washington, 20, 7
Wetland 36-2	Wetland	Fill	Permanent	0.36 ac	0.36 ac	Type 3	Washington, 20, 7
Wetland 42-1	Wetland	Fill	Permanent	0.14 ac	0.14 ac	Type 1	Washington, 20, 7
Wetland 48-1	Wetland	Fill	Permanent	0.27 ac	1.98 ac	Type 1	Washington, 20, 7
Wetland 48-1	Wetland	Remove Vegetation	Temporary (120 days)	0.07 ac	1.98 ac	Type 3	Washington, 20, 7
Wetland 48-1	Wetland	Remove Vegetation	Temporary (30 days)	0.02 ac	1.98 ac	Type 1	Washington, 20, 7
Wetland 62-1	Wetland	Fill	Permanent	0.20 ac	0.06 ac	Type 3	Washington, 20, 7
Wetland 62-1	Wetland	Remove Vegetation	Temporary (120 days)	0.19 ac	2.94 ac	Type 3	Washington, 20, 7
Wetland 139-1	Wetland	Fill	Permanent	177 SF	0.54 ac	Type 3	Washington, 20, 7
Wetland 139-1	Wetland	Remove Vegetation	Temporary (30 days)	0.04 ac	0.54 ac	Type 3	Washington, 20, 7
Total Impacts			Temporary	0.34 ac			
			Permanent	0.97 ac*			

\*A no loss is requested for 0.36 acre of permanent impact to Wetland 36-2. See Attachment B.

**TABLE 4-2: USACE REGULATED AQUATIC RESOURCE IMPACTS**

<b>Aquatic Resource ID</b>	<b>Aquatic Resource Type</b>	<b>Type of Impact</b>	<b>Duration of Impact</b>	<b>Size of Impact</b>	<b>Overall Size of Aquatic Resource</b>	<b>Existing Plant Community Types in Impact Area</b>	<b>County, Major Watershed #, and Bank Service Area of Impact Area</b>	<b>USACE Jurisdiction (Permit Category)</b>
Wetland 22-1	Wetland	Fill	Permanent	147 sf	0.21 ac	Type 1	Washington, 20, 7	Yes (Cat. 4)
Wetland 22-1	Wetland	Remove Vegetation	Temporary (30 days)	0.02 ac	0.21 ac	Type 1	Washington, 20, 7	Yes (Cat. 4)
Wetland 36-2	Wetland	Fill	Permanent	0.36 ac	0.36 ac	Type 3	Washington, 20, 7	Yes (Cat. 4)
Wetland 42-1	Wetland	Fill	Permanent	0.14 ac	0.14 ac	Type 1	Washington, 20, 7	Yes (Cat. 2)
Wetland 48-1	Wetland	Fill	Permanent	0.27 ac	1.98 ac	Type 3	Washington, 20, 7	Yes (Cat. 2)
Wetland 48-1	Wetland	Remove Vegetation	Temporary (120 days)	0.07 ac	1.98 ac	Type 3	Washington, 20, 7	Yes (Cat. 2)
Wetland 48-1	Wetland	Remove Vegetation	Temporary (30 days)	0.02 ac	1.98 ac	Type 3	Washington, 20, 7	Yes (Cat. 4)
Wetland 62-1	Wetland	Fill	Permanent	0.20 ac	2.94 ac	Type 3	Washington, 20, 7	Yes (Cat. 2)
Wetland 62-1	Wetland	Remove Vegetation	Temporary (120 days)	0.19 ac	2.94 ac	Type 3	Washington, 20, 7	Yes (Cat. 2)
Wetland 139-1	Wetland	Fill	Permanent	177 sf	0.54 ac	Type 3	Washington, 20, 7	Yes (Cat. 4)
Wetland 139-1	Wetland	Remove Vegetation	Temporary (30 days)	0.04 ac	0.54 ac	Type 3	Washington, 20, 7	Yes (Cat. 4)
Battle Creek Lake	Lake	Remove Vegetation	Temporary (30 days)	0.03 ac	NA	NA	Washington, 20, 7	Yes (Cat. 4)
Tanners Lake	Lake	Remove Vegetation	Temporary (30 days)	0.02 ac	NA	NA	Washington, 20, 7	Yes (Cat. 4)
Tributary 1	Tributary	Cut	Temporary (30 days)	117 lf (0.03 ac)	NA	NA	Washington, 20, 7	Yes (Cat. 4)
Tributary 1	Tributary	Fill	Permanent	54 lf (555 sf)	NA	NA	Washington, 20, 7	Yes (Cat. 2)

Aquatic Resource ID	Aquatic Resource Type	Type of Impact	Duration of Impact	Size of Impact	Overall Size of Aquatic Resource	Existing Plant Community Types in Impact Area	County, Major Watershed #, and Bank Service Area of Impact Area	USACE Jurisdiction (Permit Category)
Tributary 2	Tributary	Fill	Permanent	20 lf (112 sf)	NA	NA	Washington, 20, 7	Yes (Cat. 4)
Pond 38-1	Stormwater pond	Fill	Permanent	394 sf	0.12 ac	NA	Washington, 20, 7	No
Pond 61-1	Stormwater pond	Fill	Permanent	357 sf	0.50 ac	NA	Washington, 20, 7	No
Pond 61-1	Stormwater Pond	Fill	Temporary (120 days)	0.02 ac	0.50 ac	NA	Washington, 20, 7	No
Pond 70-1	Stormwater pond	Fill	Permanent	0.03 ac	0.25 ac	NA	Washington, 20, 7	No
Pond 70-2	Stormwater pond	Fill	Permanent	0.02 ac	0.25 ac	NA	Washington, 20, 7	No
Pond 120-1	Stormwater pond	Fill	Temporary (120 days)	0.24 ac	0.24 ac	NA	Washington, 20, 7	No
Pond 140-2	Stormwater pond	Fill	Permanent	0.02 ac	0.02 ac	NA	Ramsey, 20, 7	No
Pond 140-3	Stormwater pond	Fill	Permanent	372 sf	372 sf	NA	Ramsey, 20, 7	No
Pond 140-4	Stormwater pond	Fill	Permanent	0.32 ac	0.32 ac	NA	Ramsey, 20, 7	No
Pond 140-5	Stormwater pond	Fill	Permanent	0.07 ac	0.07 ac	NA	Ramsey, 20, 7	No
Wet Ditch 1	Wet ditch	Fill	Permanent	20 lf	NA	NA	Ramsey, 20, 7	No
Wet Ditch 2	Wet ditch	Fill	Permanent	199 lf	NA	NA	Washington, 20, 7	No
Wet Ditch 3	Wet ditch	Fill	Permanent	129 lf	NA	NA	Washington, 20, 7	No



**TABLE 4-3: SUMMARY OF USACE REGULATED AQUATIC RESOURCE IMPACTS**

<b>Aquatic Resource Type</b>	<b>Type of Impact</b>	<b>Duration of Impact</b>	<b>Size of Impact</b>	<b>USACE Permit Category</b>
Wetland	Fill	Permanent	0.61 ac	Category 2
Wetland	Fill	Permanent	0.37 ac	Category 4
Wetland	Remove Vegetation	Temporary	0.26 ac	Category 2
Wetland	Remove Vegetation	Temporary	0.08 ac	Category 4
Lake	Remove Vegetation	Temporary	0.05 ac	Category 4
Tributary	Fill	Permanent	20 lf (112 sf)	Category 4
Tributary	Fill	Permanent	54 lf (555 sf)	Category 2
Tributary	Cut	Temporary	117 lf (0.04 ac)	Category 4
Stormwater pond	Fill	Permanent	0.49 ac	N/A
Stormwater pond	Fill	Temporary	0.26 ac	N/A
Wet Ditch	Fill	Permanent	348 lf	N/A



## 5. PART FIVE: APPLICANT SIGNATURE

Check here if you are requesting a pre-application consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.

By signature below, I attest that the information in this application is complete and accurate. I further attest that I possess the authority to undertake the work described herein.

Signature: *Chelsea J. O.* Date: *1/22/2020*

I hereby authorize WSB to act on my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this application.



## 7. ATTACHMENT B: SUPPORTING INFORMATION FOR “NO-LOSS DETERMINATIONS”

### 7.1 Wetland 36-2

The entirety of Wetland 36-2 (0.36 acres) would be impacted by the Project to facilitate the construction of a stormwater Best Management Practice (BMP) and Woodbury 494 Park-and-Ride Station. A review of aerial photos dated back to 1936 indicate that Wetland 36-2 was inadvertently created in upland as a result of incidental grading for development of the adjacent parcels (**Appendix D**). In addition, ongoing snow storage for the neighboring commercial site has introduced additional hydrology to the area. As such, Wetland 36-2 is incidental and not regulated by the Wetland Conservation Act (Mn Rule 8420.0105, Subpart 2D). This application includes a request for a No Loss for impacts to Wetland 36-2 based on Mn Rule 8420.0415(A).

### 7.2 Temporary Impact Durations

Temporary impacts are necessary for two purposes. First, there are minor impacts shown around the BMP outfalls to allow access of construction equipment and to tie in the grading properly. These impacts would be in place for a short period of time, up to a month (30 days), and would be restored by decompacting the area disturbed and seeding with a wetland seed mix.

Second, fill along the guideway into Wetland 48-1 would also require temporary impacts for construction equipment. The duration of this impact is expected to be up to 180 days. Restoration would also involve decompacting the area disturbed as needed and seeding with a wetland seed mix.

### 7.3 Restoration Details

Restoration of temporarily impacted areas would involve decompaction of the disturbed area as needed and seeding with a wetland seed mix. Possible seed mixes include: MnDOT Mix No. 33-261, 34-171, 34-181, 34-261, 34-262, or 34-271. Final restoration details would be developed with the final design.





## 8. ATTACHMENT C: AVOIDANCE & MINIMIZATION

### 8.1 Project Purpose, Need and Requirements

The purpose of the Project is to provide transit service to meet the existing and long-term regional mobility and local accessibility needs for businesses and the traveling public within the Project area.

Project needs are the issues and problems that the Project intends to address. The following primary factors contribute to the need for the Project:

- **Limited existing transit service throughout the day and demand for more frequent service over a larger portion of the day.** The Project area and the I-94 corridor lack all-day (5 a.m. to midnight on weekdays and weekends), bidirectional transit service, particularly east of Saint Paul and Maplewood, limiting the ability of people in the Project area to use transit to meet their transportation needs.
- **Policy shift toward travel choices and multimodal investments.** I-94 and local roadways in the Project area are congested during peak travel periods.<sup>1</sup> Modeling forecasts anticipate increased traffic volumes and more congestion in the future. Funding for roadway projects would not be adequate to address the congestion problem. State and regional transportation policies identify the need to provide alternatives to traveling in congested conditions.<sup>2,3,4</sup> The Council anticipates approach volumes north and south of I-94 at County State Aid Highway (CSAH) 13 (Radio Drive/Inwood Avenue), CSAH 19 (Woodbury Drive/Keats Avenue), and CSAH 15/TH 95 S (Manning Avenue) would reach volumes between 24,200 and 50,800 vehicles per day (vpd), representing growth of 9,200 to 18,300 vpd for each approach.<sup>5</sup>
- **Population and employment growth, increasing access needs, and travel demand.** Forecasts anticipate population and employment growth in the Project area, which would increase access needs and travel demand, particularly in the I-94 corridor. The projected growth rate in the Project area is 31 percent between 2010 and 2040, according to the 2010 census and the regional forecasts from the Council's *Thrive MSP 2040* plan.<sup>6</sup> Population growth within Washington County accounts for approximately 9 percent of the region's 2010 to 2040 projected growth, with approximately 92,064 anticipated new residents. Within the Project area, forecasts anticipate particularly strong population growth in Woodbury, which transit does not currently serve well.
- **Needs of people who depend on transit.** Deficiencies in transit service limit the ability of people in the Project area who depend on transit for access to employment and other needs.

<sup>1</sup> Minnesota Department of Transportation. 2017 Congestion Report – Metropolitan Freeway System. January 2017. Available at: <http://www.dot.state.mn.us/rtrmc/reports/congestionreport2017.pdf>. Accessed October 2018.

<sup>2</sup> Minnesota Department of Transportation. State of Minnesota 2019-2022 State Transportation Improvement Program. September 2018. Available at: [http://www.dot.state.mn.us/planning/program/pdf/stip/2019\\_22%20Final%20STIP.pdf](http://www.dot.state.mn.us/planning/program/pdf/stip/2019_22%20Final%20STIP.pdf). Accessed December 2018.

<sup>3</sup> Minnesota Department of Transportation. Minnesota State Highway Investment Plan: 2018-2037. January 2017. Available at: [http://minnesotago.org/application/files/7914/8431/7219/MnSHIP\\_Final\\_Jan2017\\_With\\_Appendices.pdf](http://minnesotago.org/application/files/7914/8431/7219/MnSHIP_Final_Jan2017_With_Appendices.pdf). Accessed November 2018.

<sup>4</sup> Minnesota Department of Transportation. Statewide Multimodal Transportation Plan: 2017-2036. January 2017. Available at: [http://minnesotago.org/application/files/7414/8642/7717/SMTP\\_Plan\\_Final\\_Jan2017\\_small.pdf](http://minnesotago.org/application/files/7414/8642/7717/SMTP_Plan_Final_Jan2017_small.pdf). Accessed November 2018.

<sup>5</sup> Minnesota Department of Transportation. Rethinking I-94 Phase I Report. August 2018. Available at: <http://www.dot.state.mn.us/i-94minneapolis-stpaul/pdf/vision/phase-1-report.pdf>. Accessed November 2018.

<sup>6</sup> Metropolitan Council. Thrive MSP 2040: One Vision, One Metropolitan Region. Adopted May 28, 2014. Available at: <https://metro council.org/Planning/Projects/Thrive-2040/Thrive-MSP-2040-Plan.aspx?source=child>. Accessed October 2018.



- **Local and regional objectives for growth and prosperity.** Without improved transit service, Project area communities have limited abilities to implement local and regional policies that encourage multimodal transportation, transit, compact development and environmental preservation. In addition to Thrive MSP 2040, regional, county and city plans prioritize transit as a component to growth and economic competitiveness:
  - Metropolitan Council 2030 Regional Development Framework <sup>7</sup>
  - Ramsey County 2030 Comprehensive Plan<sup>8</sup>
  - Washington County 2030 Comprehensive Plan <sup>9</sup>
  - City of Saint Paul Comprehensive Plan (adopted February 2010)<sup>10</sup>
  - City of Maplewood Comprehensive Plan (adopted January 2010)<sup>11</sup>
  - City of Landfall Village *2040 Comprehensive Plan* (September 2017)<sup>12</sup>
  - 2030 Oakdale Comprehensive Plan (May 2010)<sup>13</sup>
  - City of Woodbury *2030 Comprehensive Plan* (July 2010)<sup>14</sup>

## 8.2 Avoidance & Minimization: Project-Wide

Public and agency input identified a range of alternatives, which the Project advisory bodies evaluated based on the alternatives' abilities to meet the Project's purpose and need, minimize environmental impacts, and meet or exceed the qualification ratings needed for the Federal Transit Administration's (FTA) Capital Investment Grant (CIG) Program, through which major transit projects compete for capital funding grants.

The alternatives evaluated by the Project are summarized in Section 3.2 and are detailed in **Appendix A**. Project refinement allowed for additional minimization efforts to be included. Section 8.3 details the minimization efforts used at each individual wetland. In addition, the tamarack swamp wetlands located east and west of Bielenberg Drive, just north of Guider Drive were completely avoided by moving busses into mixed traffic rather than constructing a dedicated lane through that section.

<sup>7</sup> Metropolitan Council. *2030 Regional Development Framework. Amended December 14, 2006. Available at: <https://metro council.org/Planning/Publications-And-Resources/2030-Regional-Development-Framework.aspx>. Accessed November 2018.*

<sup>8</sup> Ramsey County. *Ramsey County 2030 Comprehensive Plan. Adopted 2008. Available at: <http://www.ci.ramsey.mn.us/532/2030-Comprehensive-Plan>. Accessed October 2018.*

<sup>9</sup> Washington County. *Washington County 2030 Comprehensive Plan – A Policy Guide to 2030. Adopted 2010. Available at: <https://www.co.washington.mn.us/DocumentCenter/View/131/CP-Final-Book-02-14-11?bidId=.%20>. Accessed October 2018.*

<sup>10</sup> City of Saint Paul. *"Comprehensive Plan – Adopted February 2010". Available at: <https://www.stpaul.gov/departments/planning-economic-development/planning/citywide-plans>. Last modified February 24, 2010. Accessed May 2018.*

<sup>11</sup> City of Maplewood. *"2030 Comprehensive Plan". Available at: <https://maplewoodmn.gov/DocumentCenter/Index/110>. Adopted January 25, 2010. Accessed May 2018.*

<sup>12</sup> City of Landfall Village. *2040 Comprehensive Plan. Available at: <http://citcms.cityoflandfall.com/FileUpload/2040%20Comp%20Plan%20Update%2009182017.pdf>. Last modified September 18, 2017. Accessed May 2018.*

<sup>13</sup> City of Oakdale. *Oakdale 2030 Comprehensive Plan. Available at: <https://www.ci.oakdale.mn.us/201/Comprehensive-Plan>. Last modified 2008. Accessed May 2018.*

<sup>14</sup> City of Woodbury. *"Current 2030 Comprehensive Plan" Available at: [https://www.woodburymn.gov/departments/planning/current\\_comprehensive\\_plan.php](https://www.woodburymn.gov/departments/planning/current_comprehensive_plan.php). Last modified 2008. Accessed May 2018.*



## 8.3 Avoidance & Minimization: Individual Wetlands

Avoidance and minimization efforts at each wetland are detailed below.

### 8.3.1 Wetland 22-1

The Project proposes to permanently impact Wetland 22-1 for the construction of an outfall for a stormwater BMP located on the northwest fringe of Battle Creek Lake. Permanent impacts are 147 square feet and have been minimized by pulling the outfall out of the wetland to the extent feasible. Temporarily impacted areas would be restored as described in Section 7.3.

### 8.3.2 Wetland 42-1

The Project proposes to impact 0.14 acres of Wetland 42-1 located along the south side of 4<sup>th</sup> Street and west of Helmo Avenue for the construction of dedicated guideway. In this area, busses would run in a new center-running guideway and then turn south toward the proposed Helmo Avenue station. The Project impacts the entirety of Wetland 42-1. Project design includes a reduction in slope from 1:4 to 1:3. Shifting the guideway north to minimize impacts to this wetland was determined to not be practical as it would increase impacts to Wetland 62-1 without substantially reducing impacts to Wetland 42-1. Impacts to Wetland 42-1 would have still resulted in an almost total take of the wetland. Remaining wetland would have been minimal and likely not sustainable. As a result, it was determined to be more practical to fully impact Wetland 42-1 to reduce impacts to Wetland 62-1.

### 8.3.3 Wetland 48-1

The Project proposes to impact 0.27 acres of Wetland 48-1 located west of Helmo Avenue for the construction of dedicated guideway. The guideway in this location is a new, dedicated guideway that would access the proposed Helmo Avenue station and ultimately cross over Interstate 94 (I-94). Alternatives to impacting this wetland included shifting the curve in the guideway further east toward Helmo Avenue. This design alternative was determined to not be feasible because an easterly shift would result in a tighter curve radius that would ultimately not meet the needs of the Project in terms of travel time. In addition, further shifts to the east were not possible without impacting the City of Oakdale's Helmo Avenue Station Bus Rapid Transit Oriented Development (BRTOD) Plan that was adopted by the City in May 2018 (reformatted in April 2019). The BRTOD Plan outlines the planned development for the area within 1/8 mile and 1/4 mile from the Helmo Avenue station. The City of Oakdale reviewed alignment options that shifted the alignment further east toward Helmo Avenue and 4<sup>th</sup> Street and would have further reduced wetland impacts. The City's feasibility threshold for development of this parcel is 100 units. Further shifting of the guideway to the east would reduce the number of units that can be built to below the threshold. Therefore, the City determined further shifts in the alignment were unacceptable due to the reduced number of units that would be able to be built on that parcel. The City would not support a project that did not meet the BRTOD Plan. Correspondence is located in **Appendix F**.

To minimize impacts, the guideway was designed to a lower design speed than the rest of the corridor. The Gold Line Project Design Criteria indicated the need for a 45-mph design speed for the guideway. This design speed was recommended in order to meet the travel time goals of the Project. The original guideway planned for a 45-mph design curve that aligned through the center of the wetland resulting in total impact to Wetland 48-1. To minimize the impacts to Wetland 48-1, the guideway was shifted toward Helmo Avenue by reducing the curve radius to a 35-mph design speed. Reduction of the speed from 45-mph to 35-mph, which reduced the impact to 0.43 acre, required input and approval from Metro Transit Operations and the FTA since the overall travel time was increased. Further reductions in speed resulting in longer travel times were not supported.

In addition to the minimization related to reducing the design speed/curve radii, impacts to Wetland 48-1 were further minimized from 0.43 to 0.27 acre by reducing the side slope from 1:4 to 1:3. Temporary impacts are also proposed and would be restored following construction.



### 8.3.4 Wetland 62-1

The Project proposes to permanently impact 0.20 acres of Wetland 62-1 located north of 4<sup>th</sup> Street and west of Helmo Avenue for the construction of a pedestrian pathway associated with the Project. An 8-foot-wide pedestrian path currently extends west from Helmo Avenue for approximately 650 feet. The proposed Project would extend that pedestrian path from its existing termini west to Hadley Avenue. The pathway would provide those without vehicles safe access to the bus stations. Impacts to Wetland 62-1 were minimized by shifting the center-running guideway south and reducing side slopes from 1:4 to 1:3. Temporary impacts are also proposed and would be restored following construction.

### 8.3.5 Wetland 139-1

The Project proposes to permanently impact Wetland 139-1 located at 500 Bielenberg Drive for the construction of an outfall for a stormwater BMP. Permanent impacts are 177 square feet and have been minimized by pulling the outfall out of the wetland to the extent feasible. Temporarily impacted areas would be restored as described in Section 7.3.

## 8.4 Avoidance & Minimization: Non-WCA Regulated Wetlands

### 8.4.1 Wetland 36-2

As described in Section 7.1, Wetland 36-2 was inadvertently created in an upland area as a result of incidental grading to adjacent parcels. This area is also used for snow storage in the winter for the commercial site to the south, which provides artificial hydrology and likely helped the formation of wetland characteristics. It is a poor-quality wetland that is dominated by invasive reed canary grass. This wetland would be completely impacted as a result of construction of a stormwater BMP and the Woodbury 494 Park-and-Ride Station. An alternative that utilized the existing Woodbury Theatre parking lot was reviewed but was eliminated due to future master planning efforts by the City of Woodbury that would encourage transit-supportive land use at this location. Minimization to an extent that would have allowed a viable portion of the wetland to remain was not practical.

The 494 Park-and-Ride Station requires 200 parking stalls. The BRT station is placed central to the site to be easily accessible to the parking while remaining visually prominent from Woodlane Drive. By placing the active uses of the site along the perimeter of Woodlane Drive, the area for stormwater is restricted to the available land nearest to I-494. Stormwater management for the site would be accomplished using a multi-cell system. This system is also anticipated to provide additional protection to a high-quality downstream resource, the tamarack wetland, by providing treatment not only for the Park-and-Ride site but also additional treatment of stormwater from the nearby commercial development.

Due to the incidental nature of this wetland, and overall poor quality, the applicant is requesting the mitigation ratio be reduced to 1:1 for impacts to this wetland.

## 8.5 Reduction/Elimination of Impacts Over Time

Impacts proposed by the Project have been reduced to the extent feasible through avoidance and minimization efforts which are described above. In addition, several BMP features are proposed with the Project that would reduce or eliminate the loss of function resulting from the aquatic resource impacts associated with the Project by providing replacement. Stormwater BMPs and floodplain mitigation areas are shown on the exhibits in **Appendix B**. The BMPs shown on the exhibits would be a combination of vegetated infiltration and filtration basins, providing water quality improvement, volume control, and rate control for the Project. The BMPs would be planted with native seed mixes typical for these areas and water regimes, providing habitat and water resource benefits. The floodplain mitigation area will also be planted with similar seed mixes as the BMPs.



The largest area of impact is in the Helmo Avenue area, where there is 0.61 acres of permanent wetland impact proposed to Wetlands 42-1, 62-1 and 48-1. BMP 35 and 36, located in the same area, would have a surface area of approximately 0.80 acres and the floodplain mitigation would be between 0.25 to 0.5 acres. These features would replace functions of the wetlands that are impacted by fully replacing the surface area, largely replacing the volume control by providing approximately 1 acre-foot of volume reduction and would provide ecological benefits through the intended native plantings. Throughout the entire Project, Metro Council intends to plant native species where feasible to provide additional ecological benefit and enhance the aesthetics of the corridor.



## 9. ATTACHMENT D: REPLACEMENT/COMPENSATORY MITIGATION

### 9.1 Mitigation Required for Project

The Project permanently impacts 0.61 acres of WCA-regulated wetland and 0.97 acres of USACE-regulated wetland. Mitigation is required at a 2:1 ratio for all WCA-regulated wetlands and the applicant is requesting a reduced 1:1 replacement ratio for Wetland 36-2, a USACE-regulated wetland. This results in the need for 1.22 acres of credit to mitigate impacts to Wetlands 22-1, 42-1, 48-1, 62-1, and 139-1 and an additional 0.36 acre of credit for impacts to Wetland 36-2. Total replacement credit needed for the Project is 1.58 acres.

#### 9.1.1 Summary of Replacement Requirements

##### WCA REQUIREMENTS

Mitigation for WCA is required to following the siting criteria:

- 1) Onsite or in the same minor watershed as the impacted wetland;
- 2) In the same watershed as the impacted wetland;
- 3) In the same county or wetland bank service are (BSA) as the impacted wetland; and
- 4) In another BSA.

##### RAMSEY WASHINGTON METRO WATERSHED DISTRICT REQUIREMENTS

Wetland replacement siting within the district should follow the following criteria:

- 1) Onsite replacement is preferred;
- 2) Within the same subwatershed;
- 3) Within the District; and
- 4) Outside of the District.

##### USACE REQUIREMENTS

The USACE required mitigation credits to be located within the same BSA as the impacted wetland. If credits are located outside of the same BSA, the replacement ratio would increase to 2.25:1.



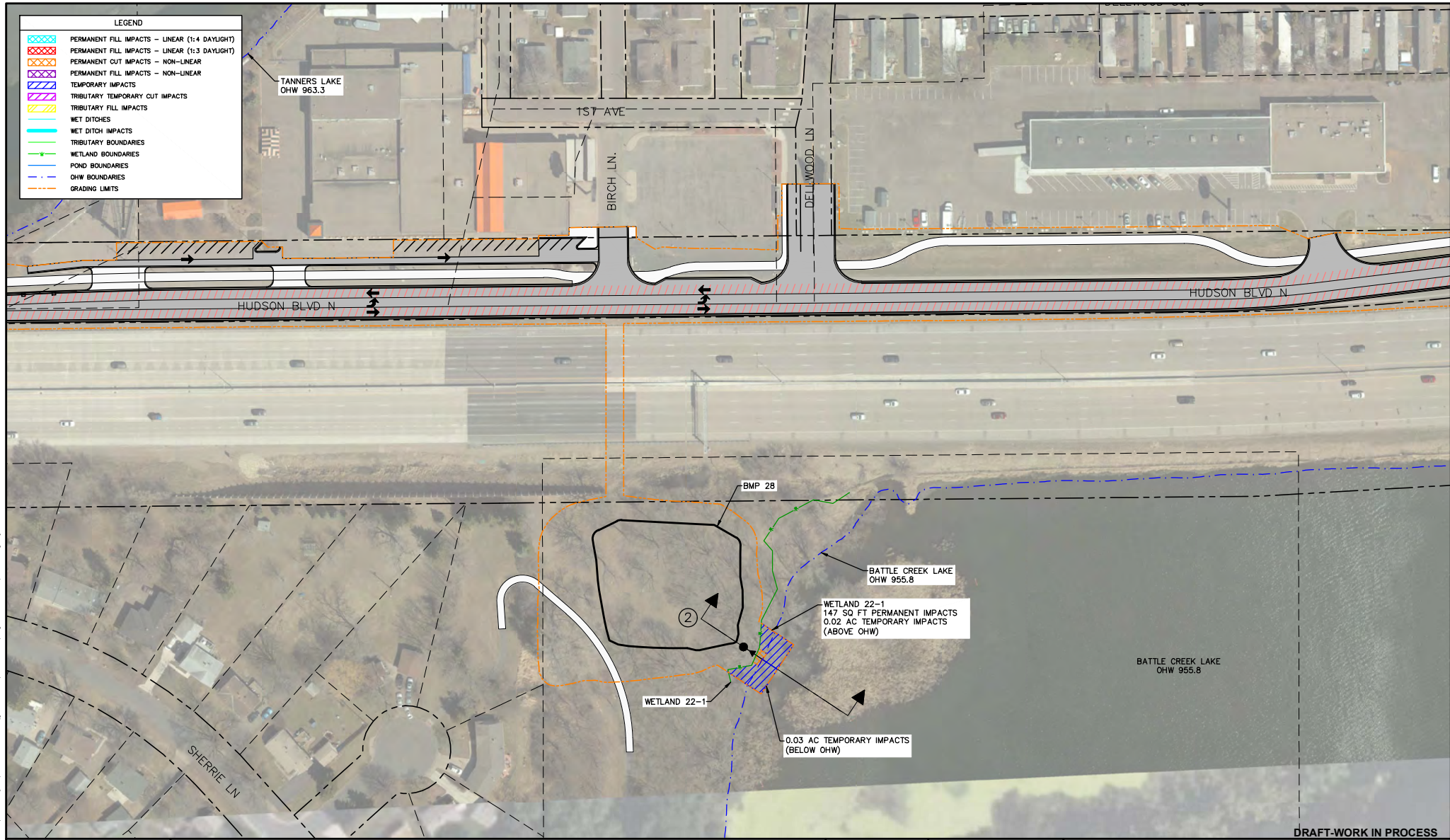
## 9.2 Mitigation to be Provided by Project

The narrow nature of the linear Project Corridor limits the potential for onsite replacement of wetlands. Project right-of-way would be minimized to the amount necessary for the guideway, parking, stormwater facilities, and floodplain mitigation only. As discussed in Section 8.5, stormwater and floodplain mitigation facilities would replace nearly all the surface area impacts and many of the functions lost as a result of the aquatic resource impacts. To formally replace for the wetland impacts, the Project proposes to mitigate the impacts resulting from the Project through the purchase of wetland credit from two banks:

- Bank No. 1137, a USACE-approved wetland bank located in Washington County. The bank is in the same county and watershed as the impacted wetlands. All available credit would be purchased from this bank. Based on conversations with the bank owner/manager, there will not be enough credit available to cover all required mitigation, so an additional bank would be necessary.
- Bank No. 1649, a USACE-approved wetland bank. The bank is in the watershed as the impacted wetlands. The remaining wetland credit needed would be purchased from this bank.

There are no banks available within Ramsey-Washington Metro Watershed District. Bank 1137 represents the only bank available in Washington County, Bank Service Area 7, with available USACE-approved credits. Purchase Agreements for these banks will be provided after available credits are confirmed with Bank No. 1137 and agreements have been executed.

LEGEND	
	PERMANENT FILL IMPACTS - LINEAR (1:4 DAYLIGHT)
	PERMANENT FILL IMPACTS - LINEAR (1:3 DAYLIGHT)
	PERMANENT CUT IMPACTS - NON-LINEAR
	PERMANENT FILL IMPACTS - NON-LINEAR
	TEMPORARY IMPACTS
	TRIBUTARY TEMPORARY CUT IMPACTS
	TRIBUTARY FILL IMPACTS
	WET DITCHES
	WET DITCH IMPACTS
	TRIBUTARY BOUNDARIES
	WETLAND BOUNDARIES
	POND BOUNDARIES
	OHW BOUNDARIES
	GRADING LIMITS

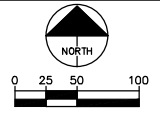


DRAFT-WORK IN PROCESS



**GOLD LINE BRT**  
 WETLAND 22-1  
 AQUATIC RESOURCE IMPACTS - PLAN VIEW

Rev 2  
 10/28/2019



**Kimley»Horn**  
 SHEET 4 OF 13

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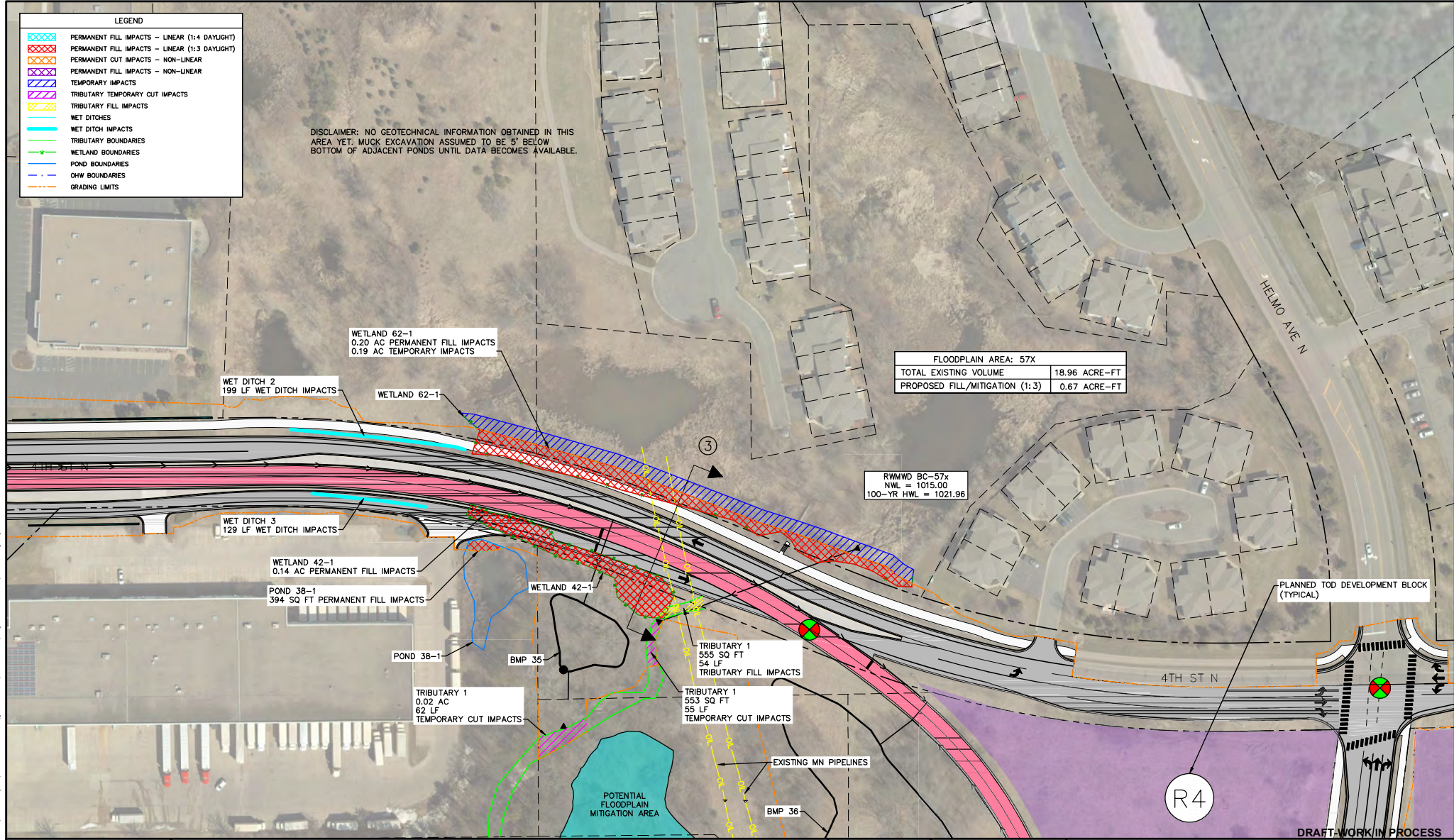


DISCLAIMER: NO GEOTECHNICAL INFORMATION OBTAINED IN THIS AREA YET. MUCK EXCAVATION ASSUMED TO BE 5' BELOW BOTTOM OF ADJACENT PONDS UNTIL DATA BECOMES AVAILABLE.

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	WETLAND BOUNDARIES
	POND BOUNDARIES
	OHW BOUNDARIES
	GRADING LIMITS

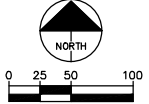
FLOODPLAIN AREA: 57X	
TOTAL EXISTING VOLUME	18.96 ACRE-FT
PROPOSED FILL/MITIGATION (1:3)	0.67 ACRE-FT

R/WWD BC-57x  
 NWL = 1015.00  
 100-YR HWL = 1021.96



**GOLD LINE BRT**  
 WETLAND 42-1 AND 62-1  
 AQUATIC RESOURCE IMPACTS - PLAN VIEW

Rev 2  
 10/28/2019

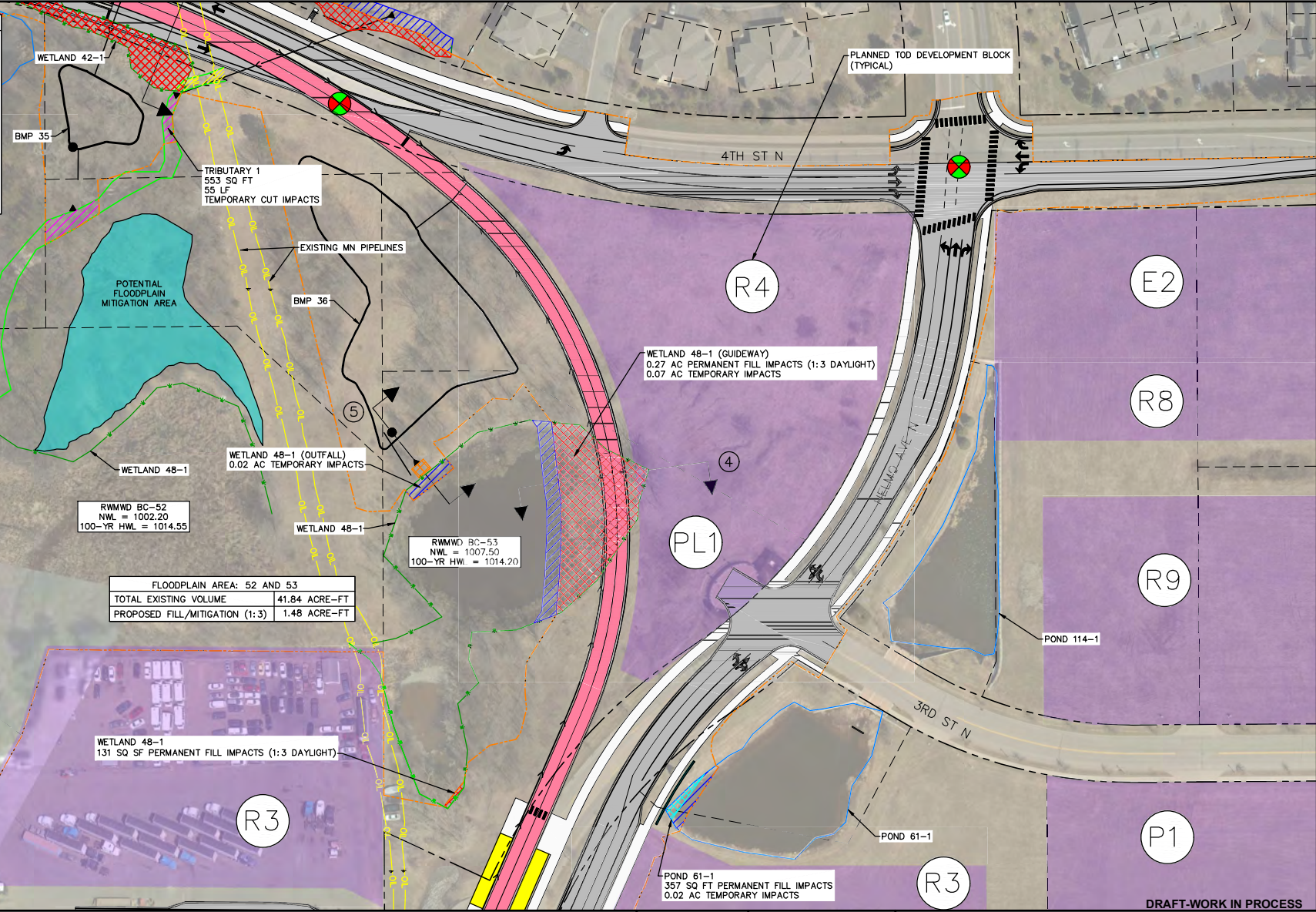


**Kimley»Horn**  
 SHEET 5 OF 13

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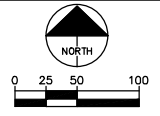
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- LEGEND**
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  - WETLAND BOUNDARIES
  - POND BOUNDARIES
  - OHW BOUNDARIES
  - GRADING LIMITS



**GOLD LINE BRT**  
WETLAND 48-1  
AQUATIC RESOURCE IMPACTS - PLAN VIEW

Rev 2  
10/28/2019



**Kimley»Horn**

SHEET 6 OF 13

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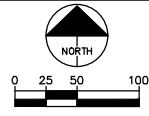
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	PERMANENT FILL IMPACTS - NON-LINEAR
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	WET DITCHES
	WET DITCH IMPACTS
	TRIBUTARY BOUNDARIES
	WETLAND BOUNDARIES
	POND BOUNDARIES
	DHW BOUNDARIES
	GRADING LIMITS



**GOLD LINE BRT**  
 WETLAND 139-1  
 AQUATIC RESOURCE IMPACTS - PLAN VIEW

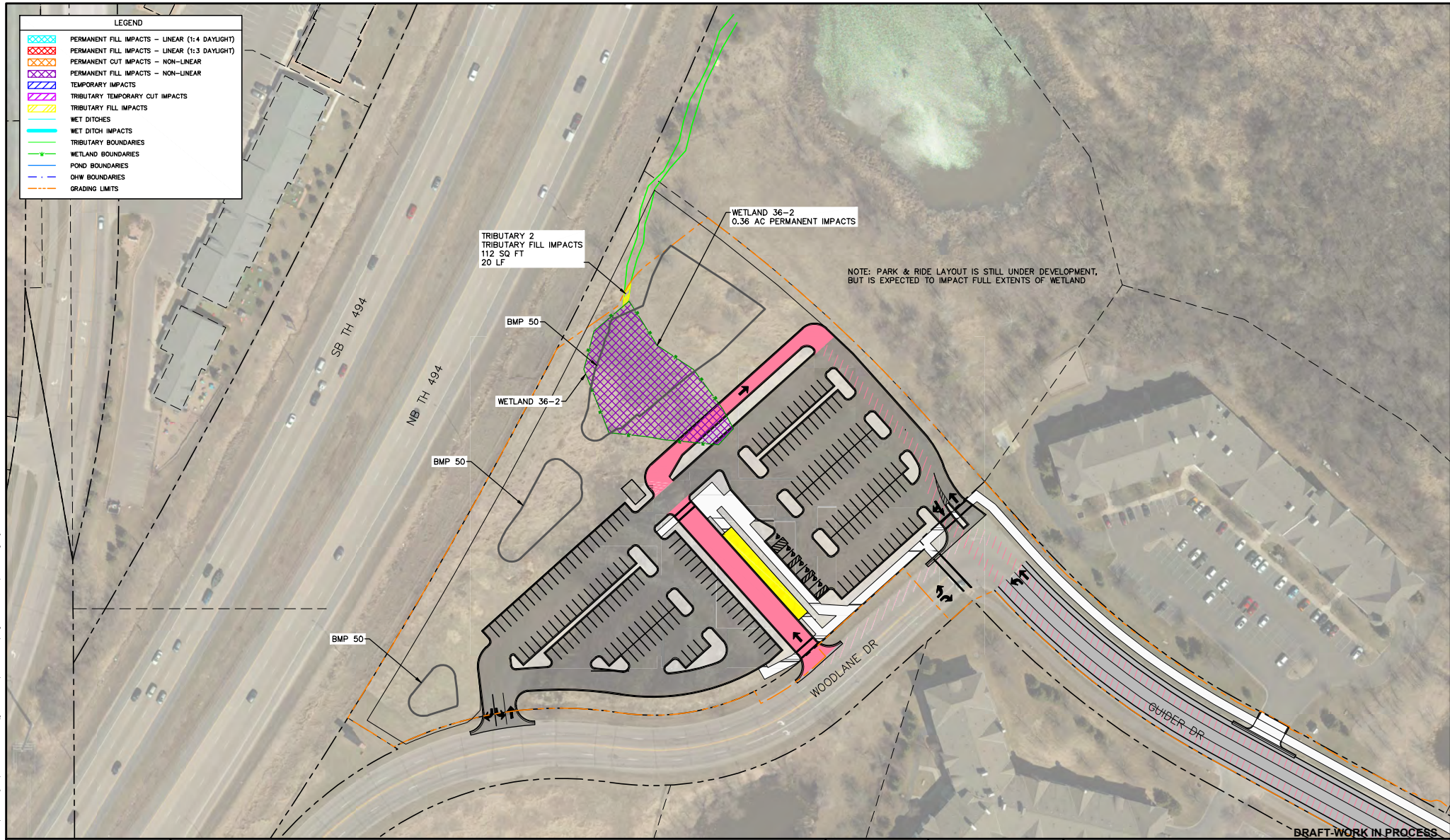
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**Kimley»Horn**  
 SHEET 8 OF 13

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LEGEND	
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	PERMANENT FILL IMPACTS - NON-LINEAR
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	OHW BOUNDARIES
	GRADING LIMITS



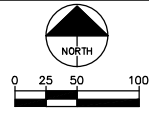
NOTE: PARK & RIDE LAYOUT IS STILL UNDER DEVELOPMENT, BUT IS EXPECTED TO IMPACT FULL EXTENTS OF WETLAND.

BRAFT-WORK IN PROCESS



**GOLD LINE BRT**  
WETLAND 36-2  
AQUATIC RESOURCE IMPACTS - PLAN VIEW

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# Stewardship Grant Program

\* \* \* \* \*

## Stewardship Grant Application Summary

**Project Name:** Finucane

**Application Number** 20-01 CS

**Board Meeting Date:** 2/5/2020

**Applicant Name:** Hallie Finucane

**Residential**

**Commercial/Government**

### Project Overview:

This project is located off Transit Ave and Chatsworth St N in the City of Roseville. The homeowner is a Master Water Steward looking to convert her front yard turf grass into a bee lawn as part of her capstone project. She will be having a contractor do the work and will be hiring the contractor to do ongoing maintenance.

As a Master Water Steward project, this project is eligible for 100% funding up to \$15,000.

### BMP type(s):

Bee Lawn(1)

### Grant Request:

\$5,800.00

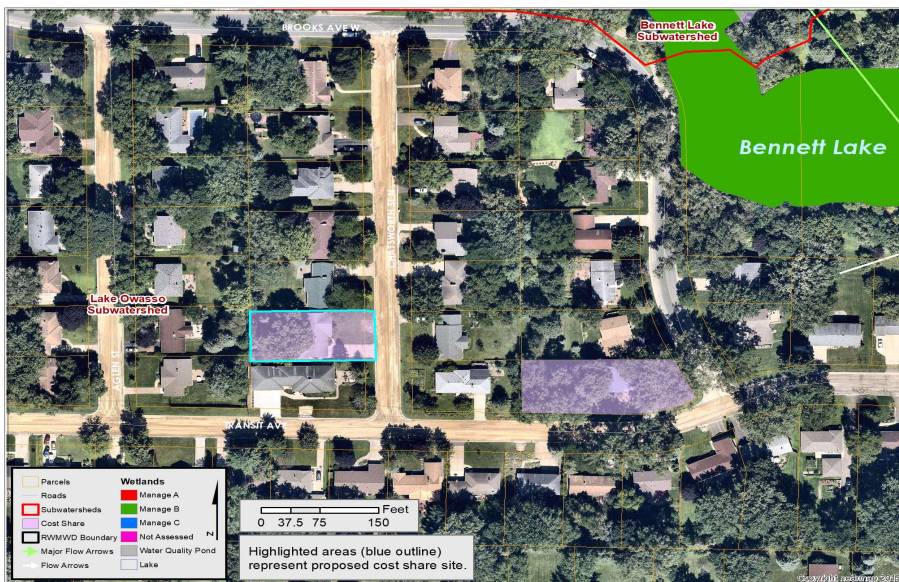
### Recommendation:

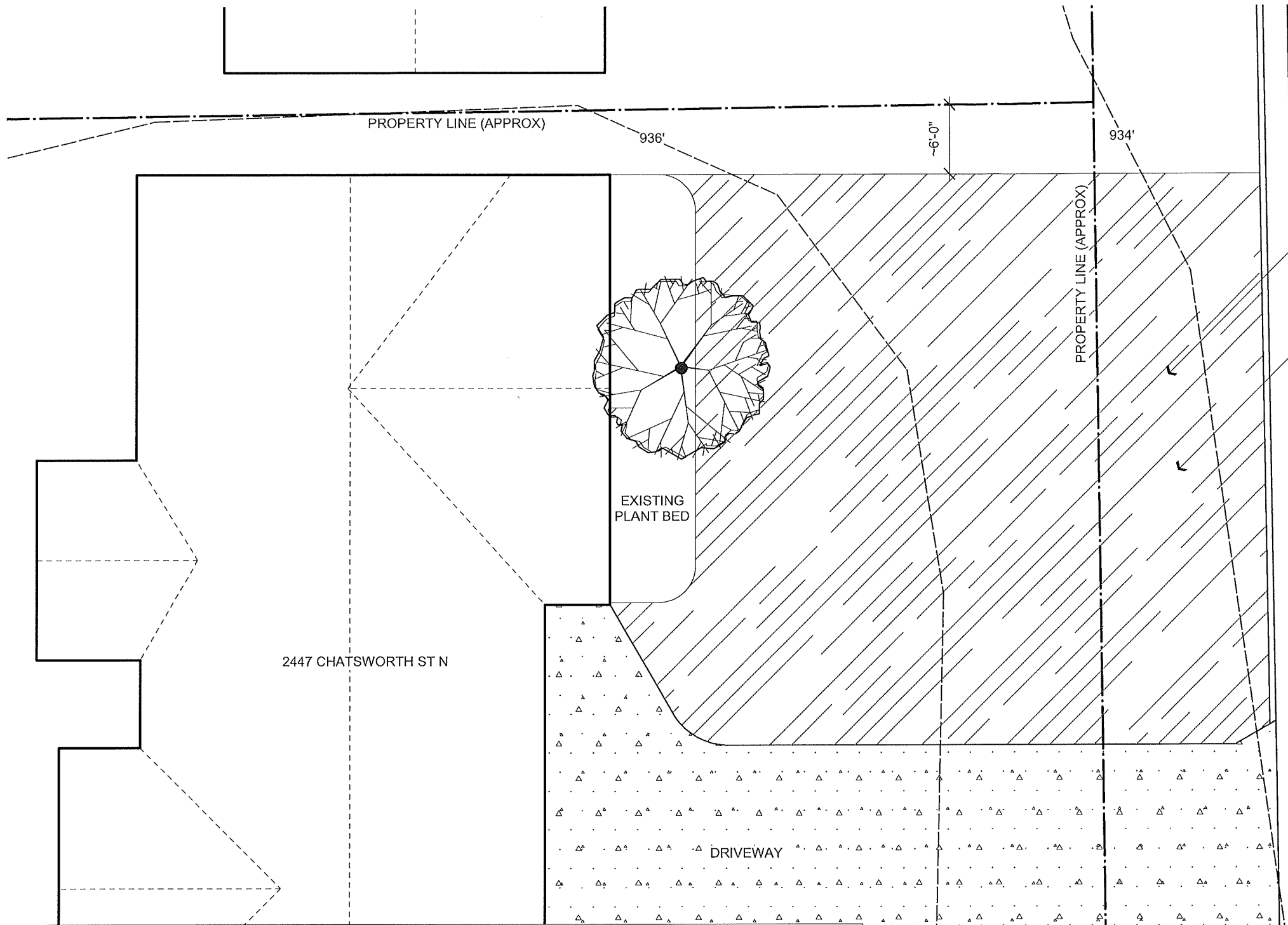
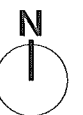
Staff recommends approval of this application.

### Subwatershed:

Lake Owasso

### Location Maps:





(1) SEE SHEET NOTES FOR SITE PREPARATION ACTIVITIES

(2) SEE SHEET NOTES FOR INSTALLATION ACTIVITIES

**SITE PREPARATION/INSTALLATION NOTES:**

1A. REMOVE SOD & KILL EXISTING WEEDS BY CUTTING ROOTS AND REMOVING SOD IN LARGE SHEETS FROM SITE; USE OF MANUAL SOD CUTTER (KICK-TYPE OR GAS-POWERED); OR APPROVED EQUAL ORGANIC SITE PREPARATION METHOD

1B. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES; ROUGH GRADING SHALL INCLUDE REMOVAL OF ANY ROCK OR OTHER DEBRIS; ELIMINATE LOW SPOTS, UNEVEN SLOPES AND COMPACTED SOILS; ALL FINAL SLOPES FOR SURFACE DRAINAGE SHALL BE 1% MIN. TOWARDS STREET.

1C. THOROUGHLY AMEND EXISTING SOILS; INCORPORATE 2" DEEP MIN. GARDEN SOIL/STARTER SOIL MIX; OR APPROVED EQUAL TO ACHIEVE 4"-6" OF PREPARED TOP SOIL LAYER

2A. PROMPTLY INSTALL BEE LAWN SEED MIX; OR APPROVED EQUAL WITH PROPERLY PREPARED SOIL BED; COVER ALL SEEDED AREAS WITH SINGLE-NET STRAW EROSION CONTROL BLANKET; OR APPROVED EQUAL WITHIN 24 HOURS OF SEEDING.

2B. INCLUDE INITIAL WATERING POST INSTALLATION; MONITOR SOIL MOISTURE AS NECESSARY

2C. RECOMMEND INSTALLING BEE LAWN IN LATE FALL OR AS DORMANT SEEDING WHEN SOIL TEMPERATURES DIP BELOW 40-DEGREES; OR AS APPROVED

2D. HAND WEED OR SPOT TREATMENT WITH SELECTIVE HERBICIDE AS NECESSARY; DO NOT MOW MORE THAN ONE-THIRD OF THE VEGETATION AT ONE TIME TO HEIGHT BETWEEN 3.50"-4.0"

SEED SCHEDULE		OZ	LBS
GRASSES:	FINE FESCUE		4.00
FORBS:	PRUNELLA VULGARIS	3.60	0.23
	THYMUS SERPYLLUM	1.00	0.06
	TRIFOLIUM REPENS L.	3.20	0.20
	SELF-HEAL		
	CREeping THYME		
	LADINO (VNS) WHITE CLOVER		
TOTAL:			4.49
* PER 1,000 SQUARE FEET			

# Stewardship Grant Application Summary

**Project Name:** Hammes

**Application Number** 20-02 CS

**Board Meeting Date:** 2/5/2020

**Applicant Name:** Sarah Hammes

**Residential**

**Commercial/Government**

## Project Overview:

This project is located at the end of Marion St in the City of Roseville. The applicant is looking to install a rain garden to capture roof and driveway runoff. They will also be installing a native planting area around the rain garden with the goal of reducing the mowing and irrigating they do on their existing turf grass.

The rain garden is eligible for 75% coverage and the native planting area is eligible for 50% coverage up to \$15,000.

## BMP type(s):

Native Habitat Restoration(1), Rain Garden(1)

## Grant Request:

\$6,000.00

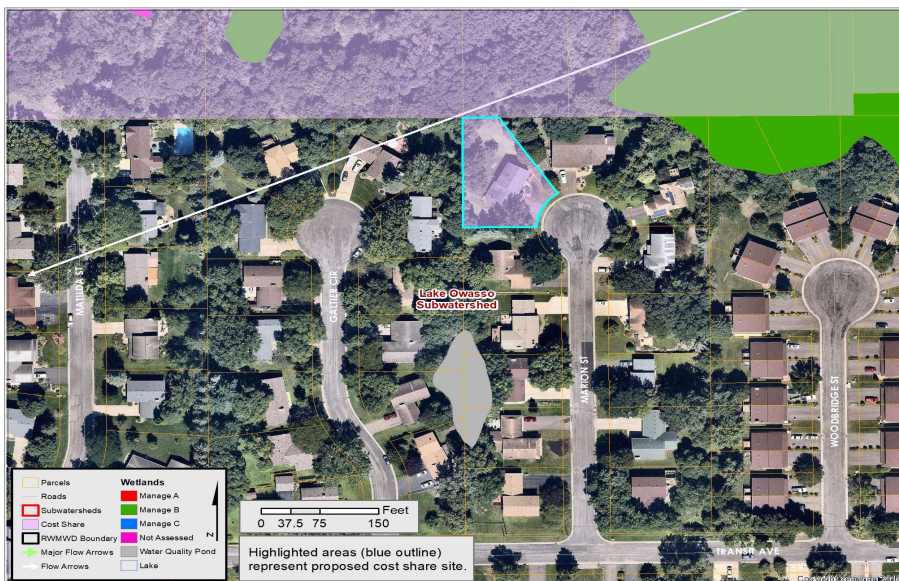
## Recommendation:

Staff recommends approval of this application.

## Subwatershed:

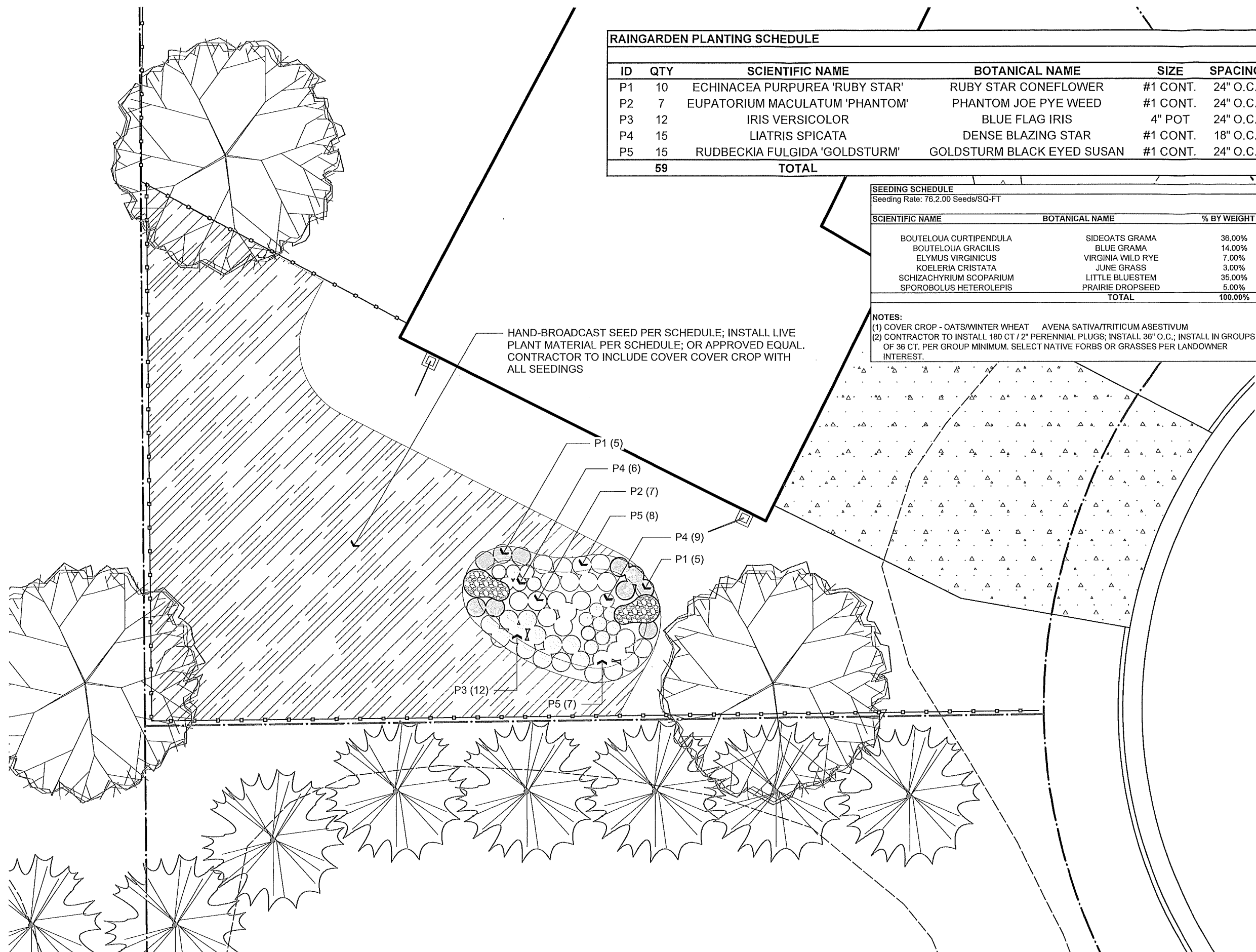
Lake Owasso

## Location Maps:





#20-02CS



RAINGARDEN PLANTING SCHEDULE					
ID	QTY	SCIENTIFIC NAME	BOTANICAL NAME	SIZE	SPACING
P1	10	ECHINACEA PURPUREA 'RUBY STAR'	RUBY STAR CONEFLOWER	#1 CONT.	24" O.C.
P2	7	EUPATORIUM MACULATUM 'PHANTOM'	PHANTOM JOE PYE WEED	#1 CONT.	24" O.C.
P3	12	IRIS VERSICOLOR	BLUE FLAG IRIS	4" POT	24" O.C.
P4	15	LIATRIS SPICATA	DENSE BLAZING STAR	#1 CONT.	18" O.C.
P5	15	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM BLACK EYED SUSAN	#1 CONT.	24" O.C.
<b>59</b>		<b>TOTAL</b>			

SEEDING SCHEDULE		
Seeding Rate: 76.2.00 Seeds/SQ-FT		
SCIENTIFIC NAME	BOTANICAL NAME	% BY WEIGHT
BOUTELOUA CURTIPENDULA	SIDEOATS GRAMA	36.00%
BOUTELOUA GRACILIS	BLUE GRAMA	14.00%
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	7.00%
KOELERIA CRISTATA	JUNE GRASS	3.00%
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	35.00%
SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	5.00%
<b>TOTAL</b>		<b>100.00%</b>

**NOTES:**  
 (1) COVER CROP - OATS/WINTER WHEAT AVENA SATIVA/TRITICUM AESTIVUM  
 (2) CONTRACTOR TO INSTALL 180 CT / 2" PERENNIAL PLUGS; INSTALL 36" O.C.; INSTALL IN GROUPS OF 36 CT. PER GROUP MINIMUM. SELECT NATIVE FORBS OR GRASSES PER LANDOWNER INTEREST.

**RAMSEY COUNTY**  
 RAMSEY COUNTY SWCD  
 1425 PAUL KIRKWOLD DR  
 ARDEN HILLS, MN 55112  
 651-266-7274  
 www.ramseycounty.us

PROJECT: HAMMES RESIDENCE  
 LOCATION:  
 2509 MARION ST  
 ROSEVILLE, MN 55113  
 WATERSHED DISTRICT:



DESIGNER: MPS  
 DATE: 09/26/2019  
 REVISION:  
 REVISION:  
 REVISION:  
 REVISION:  
 CHECKED BY:  
 TAA:

**NOTES:**  
 SUBSTITUTIONS TO MATERIALS, SPECIES TYPE AND QUANTITIES SHALL RECEIVE APPROVAL PRIOR TO INSTALL

PLANT SCHEDULES/SEED MIXES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALL

CHANGES TO LAYOUT AND SIZE OF PROJECT SHALL RECEIVE APPROVAL PRIOR TO INSTALL

ORIGINAL SHEET SIZE: 11" x 17"

SCALE:

PLANTING / SEEDING PLAN



L400

## Stewardship Grant Application Summary

**Project Name:** Caves Century HOA

**Application Number** 20-03 CS

**Board Meeting Date:** 2/5/2020

**Applicant Name:** Stephen Mastey

**Residential**

**Commercial/Government**

### Project Overview:

This project is located at a townhome association off Maryland Ave E and Ferndale St N in Maplewood. The project will consist of site grading (Permit #20-04) for an infiltration practice to reduce soil saturation for the townhome association and treat additional stormwater for water quality. The applicant is proposing to install a series of underground infiltration systems containing tired derived aggregate (TDA). TDA consists of scrap tires cut into pieces that can be used as fill and have a benefit of helping remove phosphorus from stormwater. This is a new product for RWMWD but has been used by other metro watershed districts. This project is eligible for 100% funding up to \$100,000.

### BMP type(s):

Underground Filtration(1)

### Grant Request:

\$100,000.00

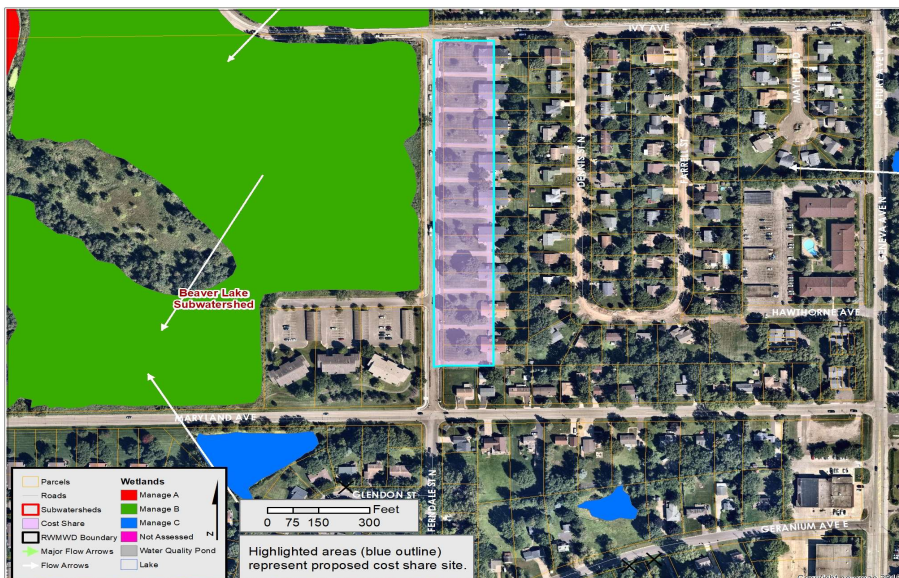
### Recommendation:

Staff recommends approval of this application.

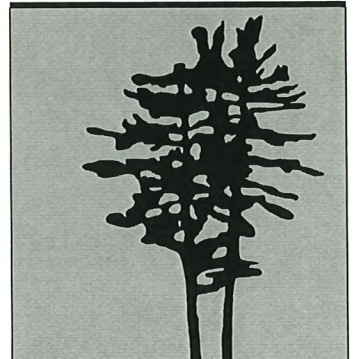
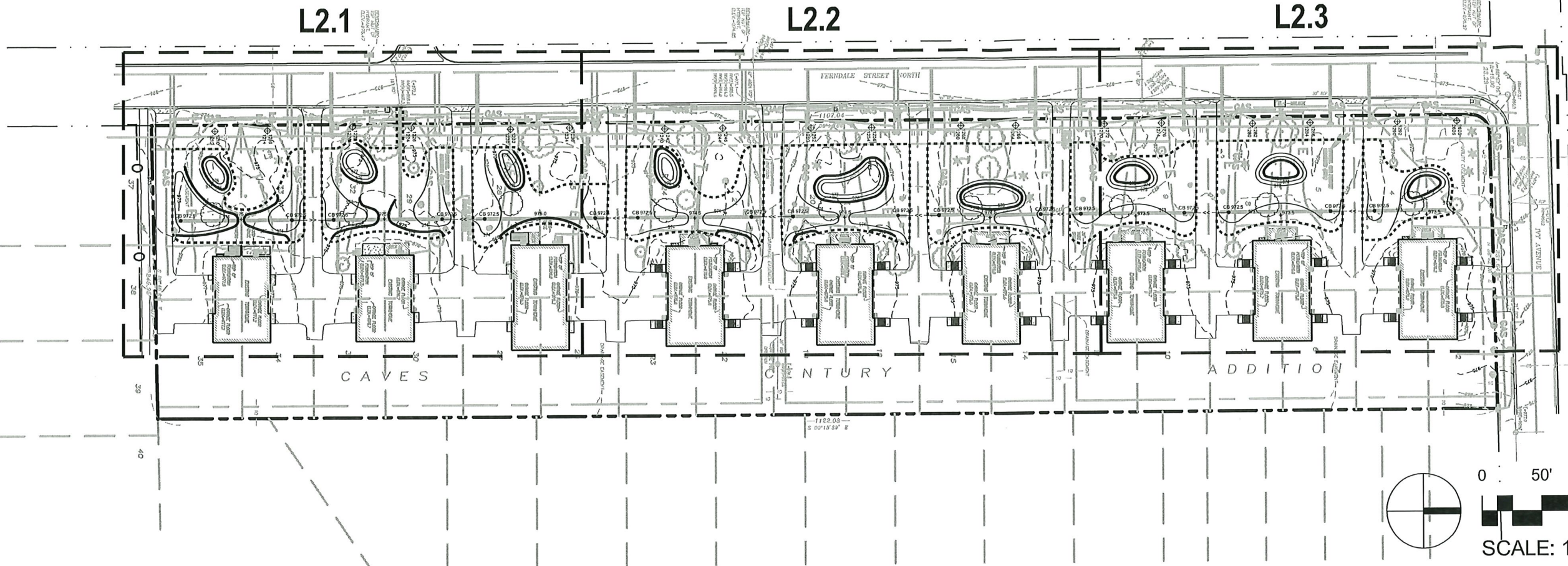
### Subwatershed:

Beaver Lake

### Location Maps:



#20-03CS



LANDSCAPE ARCHITECTURE, INC.  
 2350 Bayless Place Saint Paul, MN 55114  
 stephen@landarcinc.com 651.646.1020 landarcinc.com

PROJECT NAME:  
**Caves Century  
 Townhomes**

REVISION HISTORY:


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.

Signature: \_\_\_\_\_  
 Typed or Printed Name: STEPHEN MASTEY  
 Date: 00-00-0000 Reg. No.40629

Copyright 2019, Landscape Architecture, Inc. All Rights Reserved under Law.

PROJECT LOCATION:  
**Ferndale Street  
 North**  
 Maplewood, Minnesota  
 55119

DRAWING TITLE:  
**Grading  
 Reference Plan**

SCALE: SCALE  
 DRAWN BY: SPM  
 CHECKED BY: SPM

**L2.0**

## Stewardship Grant Application Summary

**Project Name:** Vadnais Sports Center Turf Facility

**Application Number** 20-04 CS

**Board Meeting Date:** 2/5/2020

**Applicant Name:** Ryan Ries

**Residential**  **Commercial/Government**

### Project Overview:

This project is located off International Dr and County Rd E in the City of Vadnais Heights. The applicant is proposing the construction of a new building to enclose a synthetic turf field and a new parking lot (Permit #20-03). The applicant is proposing to install permeable pavement along the western edge of the lot. 11 stalls are required to meet the permit requirements. The applicant has requested stewardship grant funding for an additional 15 stalls to treat additional stormwater from the building and parking lot. This project is eligible for 100% funding up to \$100,000.

### BMP type(s):

Porous Pavers(1)

### Grant Request:

\$100,000.00

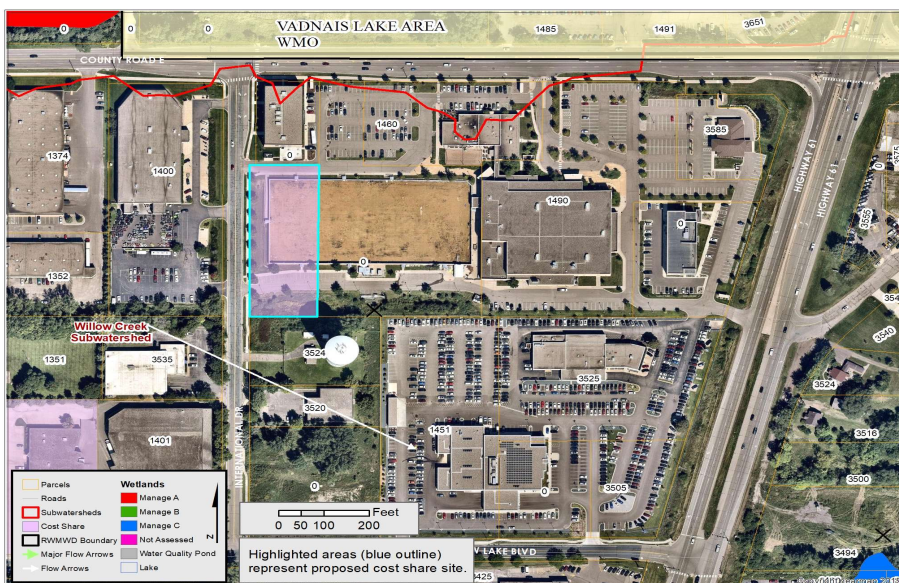
### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Willow Creek

### Location Maps:



#20-04CS



VADNAIS SPORTS CENTER INDOOR TURF FACILITY



380 St. Peter Street, Ste. 600  
Saint Paul, MN 55102  
651.222.3701  
bwbwr.com



13605 1st Avenue N., #100  
Plymouth, MN 55441 | ae-mm.com  
P 763.412.4000 | F 763.412.4090  
Anderson Engineering of Minnesota, LLC

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RAMSEY COUNTY ENGINEER OF RECORD AND SEALING ENGINEER  
Brian J. Fick, P.E.

NOT FOR CONSTRUCTION  
12/26/2019 Lic/Reg No: 57224

Issued For  
Item Date  
FLO SUBMITTAL 12/26/2019

Table with 2 columns: Item, Date. Row 1: FLO SUBMITTAL, 12/26/2019. Other rows are empty.

This Sheet may be a Reduced Copy  
This bar above is 1" long on a Full Size Sheet  
Drawing Scales apply to Full Size Sheets

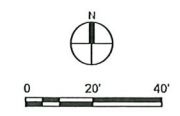


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Drawn BJF

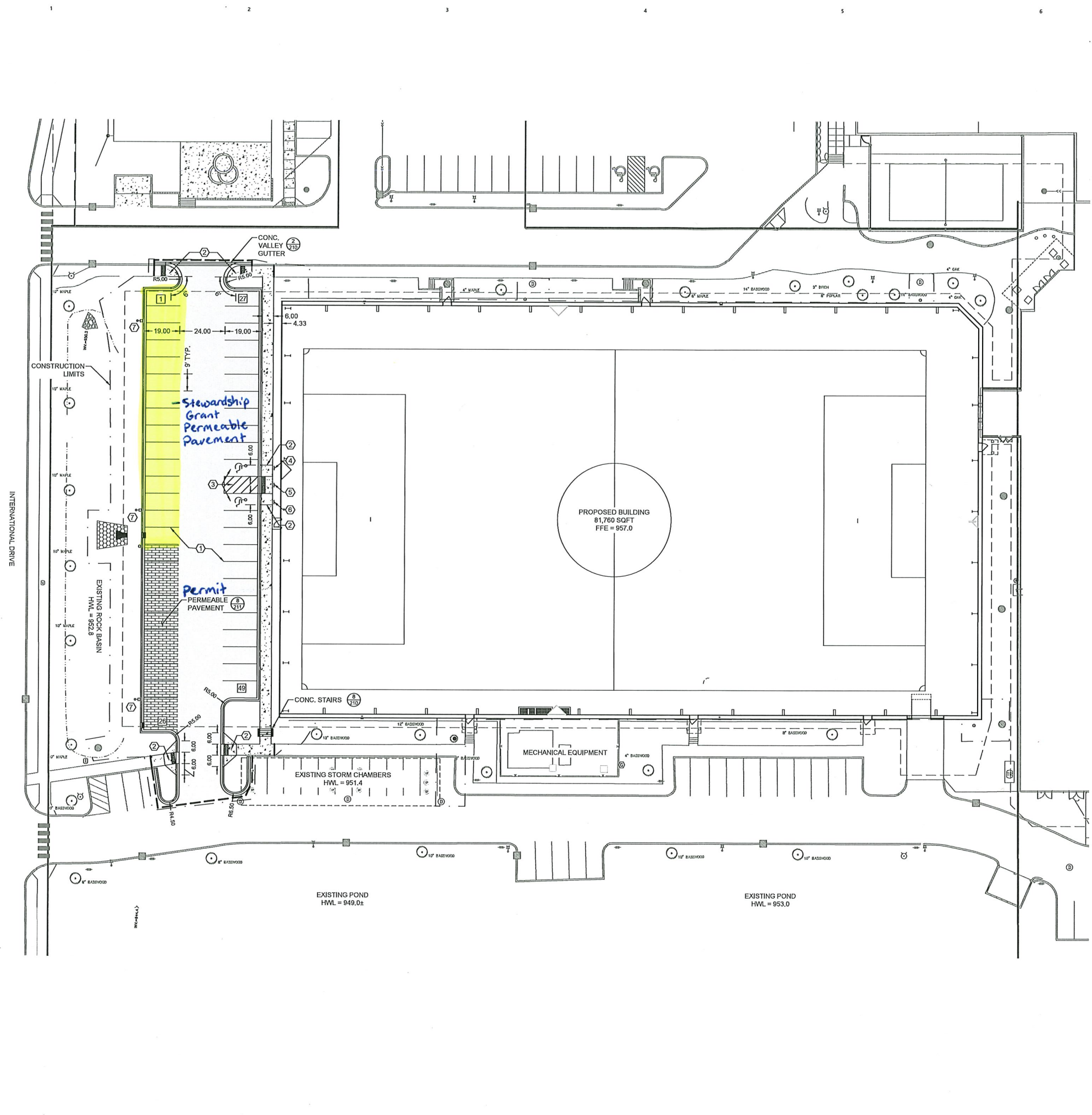
Sheet Title: SITE PLAN

Sheet No. 200.AS



- LEGEND
PROPERTY LIMITS
CONSTRUCTION LIMITS
ADJACENT PROPERTY BUILDING SETBACKS
PARKING SETBACK
DRAINAGE AND UTILITY EASEMENT
PROPOSED CONCRETE CURB AND GUTTER
VALLEY GUTTER
PROPOSED ASPHALT PAVEMENT
PROPOSED CONCRETE PAVEMENT
PROPOSED PERVIOUS PAVEMENT
NO PARKING ZONE
HANDICAP STALL DESIGNATION
NUMBER OF PARKING STALL IN SECTION
DETECTABLE WARNING PANEL

- KEYNOTES
1 4" WHITE PAVEMENT STRIPING
2 CURB RAMP
3 ACCESSIBLE PARKING & ACCESS ISLE
4 VAN ACCESSIBLE PARKING SIGN
5 NO PARKING SIGN
6 ACCESSIBLE PARKING SIGN
7 LIGHT POLE. SEE ELECTRICAL PLANS.



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## Stewardship Grant Program Budget Status Update

February 5, 2020

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	0	\$0
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	0	\$0
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	0	\$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1 (Snail Lake Restoration)	\$200,000
Priority Area Projects	100% Cost Share \$100,000 Max	0	\$0
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art	50% Cost Share	0	\$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	\$0
Maintenance	50% Cost Share \$5,000 Max for 5 Years	24	\$20,200
Consultant Fees			\$0
<b>Total Allocated</b>			<b>\$220,200</b>

2019 Stewardship Grant Program Budget	
Budget	\$1,000,000
Total Funds Allocated	\$220,200
<b>Total Available Funds</b>	<b>\$779,800</b>

\* \* \* \* \*

# Action Items

\* \* \* \* \*

# Request for Board Action

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**Board Meeting Date:** February 5, 2020

**Agenda Item No.:** 8A

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Eastside Boys and Girls Club Authorization to Finalize Design and Prepare the Bidding Documents and Advertise for Bids.

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## **Background:**

The Eastside Boys and Girls Club project started in 2018 with a survey of the site. In 2018, a conceptual site design option was developed and presented to RWMWD staff. The initial 50% design included a rain garden located to the west of the parking lot to collect parking lot runoff. The rain garden had an underdrain connecting to the City's catch basin on the west edge of the property. During final design development, it was discovered that an existing City right-of-way and main sewer line would limit the footprint of the rain garden, so it was removed from the site plan. In its place, native gardens were included in the concept plan to replace existing turf. In order to address overflow issues of the paved area, permeable pavers and an overflow catch basin were included in the site design, connecting to an existing catch basin. This final design concept was delivered to RWMWD staff in late December 2019. The revised plans were shared with the staff at the Eastside Boys and Girls Club in late January 2020. The major questions and concerns that arose at this meeting included the potential for flooding of the catch basin area during major storm events, maintenance of permeable pavers, construction schedule concerns related to bus pick-up and drop-off and additional grant funding timeframes. Contacts working with the City of St Paul on a project adjacent to the Eastside Boys and Girls club stated there was no known concerns with the functionality of the catch basin and storm sewer, just that the area would often flood due to run-off during extreme storm events. Based on the comments provided by RWMWD and the Eastside Boys and Girls Club representatives, the attached plans represent the recommended BMPs for site.

## **Eastside Boys and Girls Club Features Summary:**

- The project is located within the RWMWD's Equity Initiative Area.
- A portion of the existing parking lot will be retrofitted with a permeable pavement system that will include a small storage area, a catch basin for overflow, and an underdrain connection to an existing City of St Paul catch basin.
- Two low maintenance native/native cultivar gardens will be replace existing turf areas, installed along the boulevard between the parking lot and City right-of-way.
- The design's engineer's opinion of cost of \$98,400 and a project average annual total phosphorus removal of approximately 0.6 pounds per year.
- Estimated annual cost per lb. of TP removed is \$13,700.

Barr is awaiting final design approval from the Boys and Girls club, as well as additional construction schedule details to accommodate the site operations and additional grant funding timeline. Because this project is below the \$175,000 threshold, staff will solicit bid proposals for this project.



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**Applicable District Goal and Action Item:**

**Goal: Achieve quality surface water** – The District will maintain or improve surface water quality to support healthy ecosystems and provide the public with a wide range of water-based benefits.

**Action Item:** Implement retrofit water quality improvement projects.

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**Staff Recommendation:**

Staff recommends that the Board approve the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.

---

**Financial Implications:**

This project was planned in the approved 2020 Targeted Retrofits budget. In addition, Stormwater Impact Fund dollars will also be allocated to this project.

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**Board Action Requested:**

Approve the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.

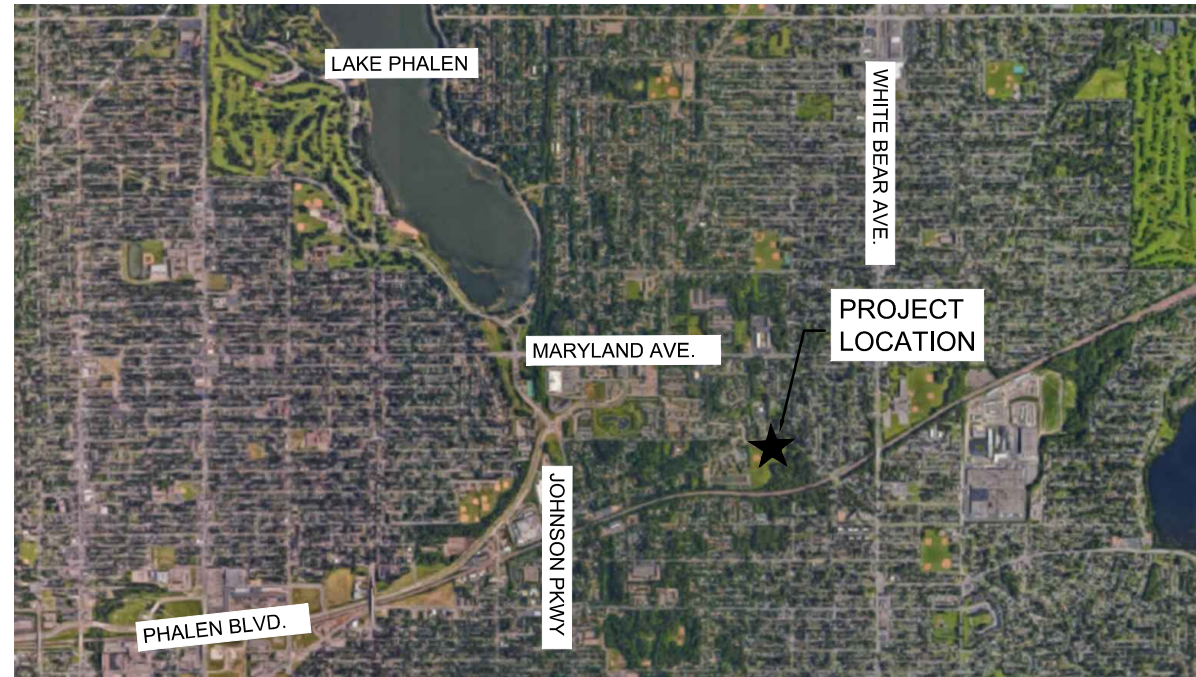
# BOYS AND GIRLS CLUB EASTSIDE

## RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

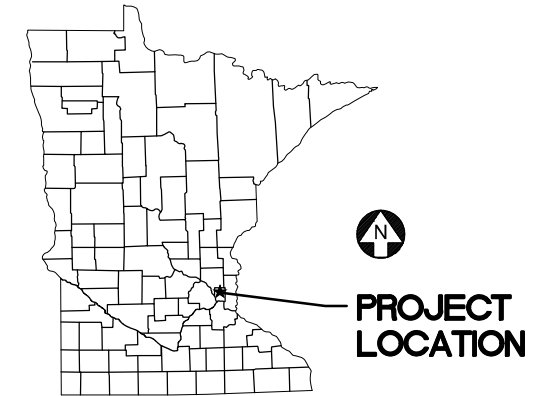
### SAINT PAUL, MINNESOTA



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



VICINITY MAP



LOCATION MAP

**CONTACTS:**

**WATERSHED PROJECT MANAGER:**  
Paige Ahlborg  
Ramsey Washington Metro Watershed District  
Phone: 651-792-7964  
Email: paige.ahlborg@rwmwd.org

**CONSTRUCTION OBSERVER:**  
Matt Kumka  
Barr Engineering Co.  
Phone: 952-832-2649  
Email: mkumka@barr.com



PERMEABLE PAVER LOCATION



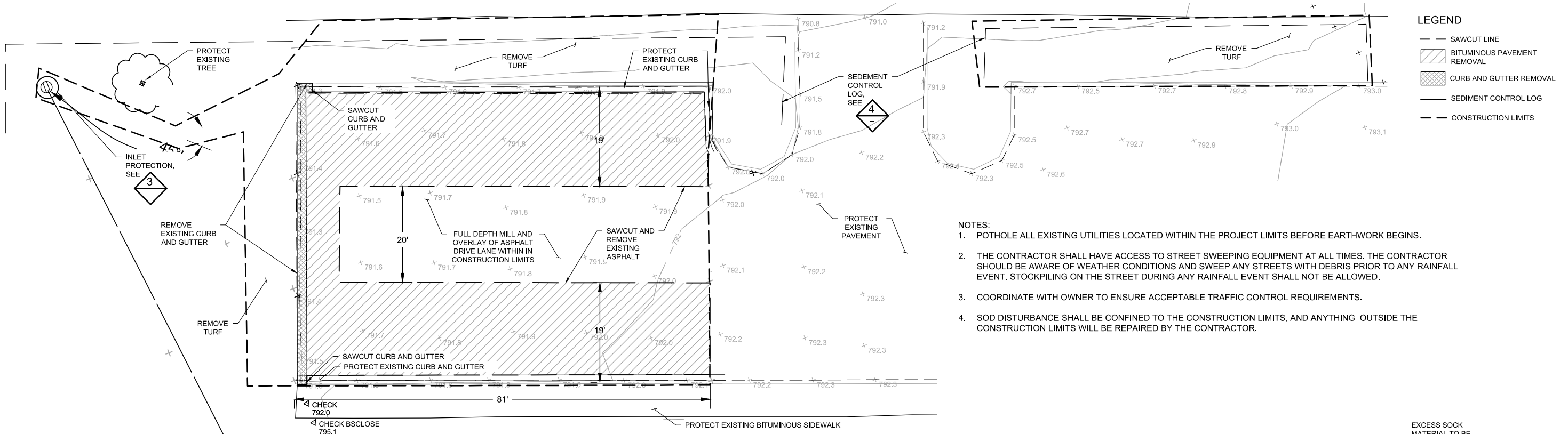
**SHEET INDEX**

SHEET NO.	DESCRIPTION
G-01	SITE LOCATION & SHEET INDEX
C-01	REMOVALS, EROSION CONTROL, & PARKING LOT SITE PLAN
C-02	PAVING PLAN AND DETAILS
C-03	DRAINTILE, CATCH BASIN, AND INLET DETAILS
C-04	DRAIN TILE PROFILES
L-01	RAIN GARDEN PLANTING PLAN AND DETAILS

CADD USER: Erin E. Feehly FILE: M:\DESIGN\23621172\00018\COMMERCIAL\BOYS AND GIRLS CLUB EAST SIDE\23621172.00 - G-02\_TITLE SHEET.DWG PLOT SCALE: 1:2 PLOT DATE: 12/28/2019 12:47 PM  
 BARR:\AutoCAD 2011\AutoCAD 2011\Support\enu\Template\Barr\_2011\_Template.dwt Plot at 1 10/05/2010 14:03:30

				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT BID CONSTRUCTION				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435				Scale AS SHOWN		BARR PROJECT No. 23621172.00	
				PRINTED NAME MATT E. KUMKA				RELEASED TO/FOR				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Date 12/27/2019		CLIENT PROJECT No.	
				SIGNATURE _____				DATE RELEASED				Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Drawn EEF		BOYS AND GIRLS CLUB EASTSIDE SAINT PAUL, MN	
				DATE _____ LICENSE # 53974								Checked MEK2				DWG. No. G-01			
												Designed EEF				REV. No. 0			
												Approved MEK2				RAMSEY-WASHINGTON METRO WATERSHED DISTRICT LITTLE CANADA, MN			
																BOYS AND GIRLS CLUB EASTSIDE SITE LOCATION & SHEET INDEX			

CADD USER: Erin E. Feehly FILE: M:\DESIGN\23621172\00\018\COMMERCIAL\BOYS AND GIRLS CLUB EAST SIDE\SIDE\23621172\_00\_BOYS\_GIRLS\_C-01-REMOVALS-SITE PLAN.DWG PLOT SCALE: 1:2 PLOT DATE: 12/26/2019 12:57 PM  
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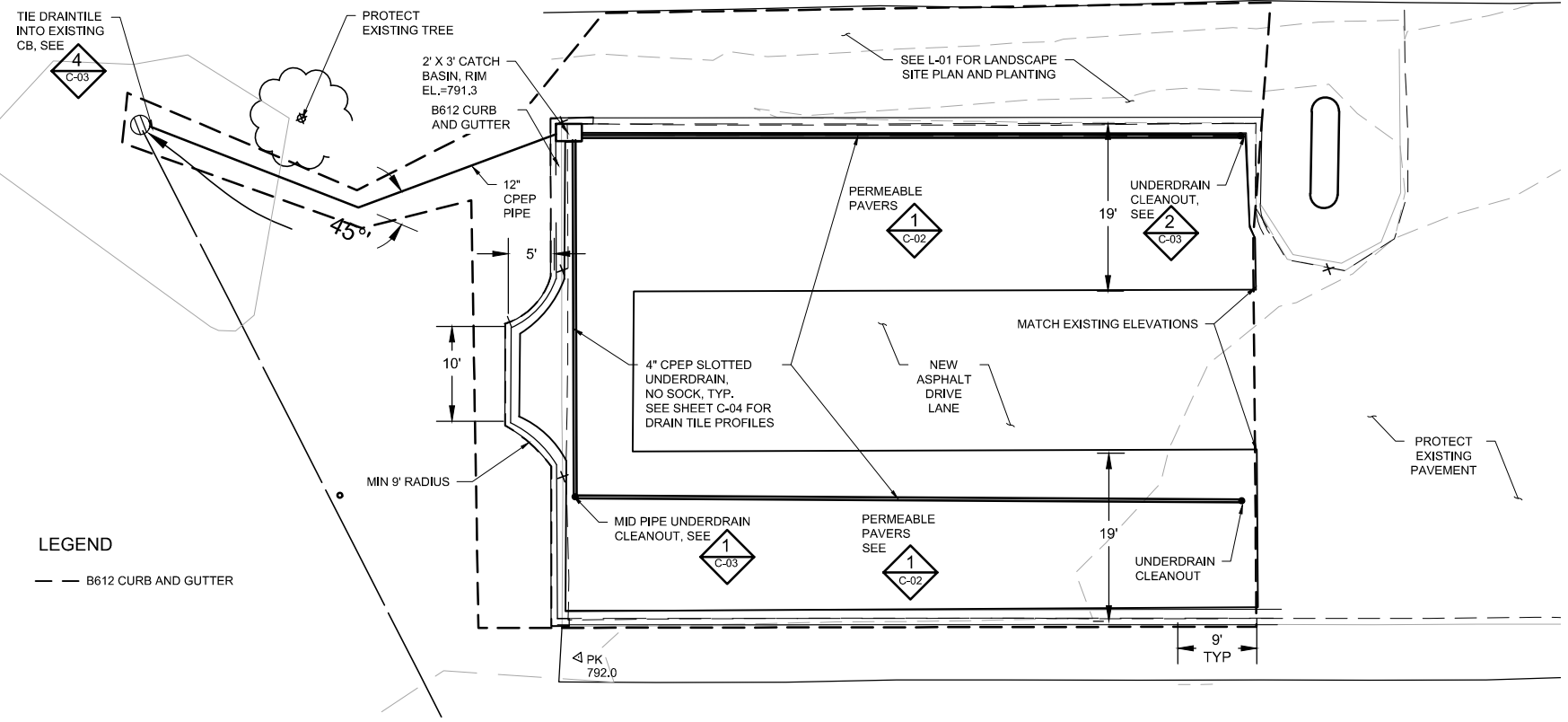


**LEGEND**

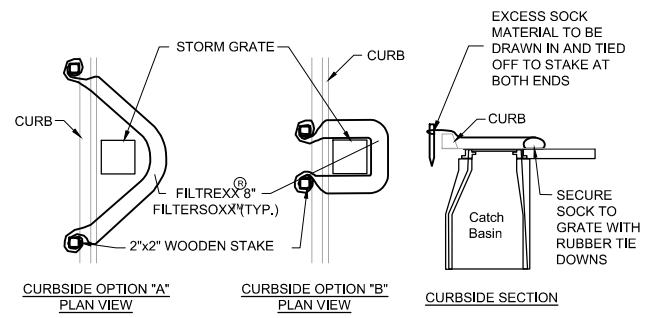
- SAWCUT LINE
- [Hatched Box] BITUMINOUS PAVEMENT REMOVAL
- [Cross-hatched Box] CURB AND GUTTER REMOVAL
- SEDIMENT CONTROL LOG
- CONSTRUCTION LIMITS

- NOTES:**
- POTHOLE ALL EXISTING UTILITIES LOCATED WITHIN THE PROJECT LIMITS BEFORE EARTHWORK BEGINS.
  - THE CONTRACTOR SHALL HAVE ACCESS TO STREET SWEEPING EQUIPMENT AT ALL TIMES. THE CONTRACTOR SHOULD BE AWARE OF WEATHER CONDITIONS AND SWEEP ANY STREETS WITH DEBRIS PRIOR TO ANY RAINFALL EVENT. STOCKPILING ON THE STREET DURING ANY RAINFALL EVENT SHALL NOT BE ALLOWED.
  - COORDINATE WITH OWNER TO ENSURE ACCEPTABLE TRAFFIC CONTROL REQUIREMENTS.
  - SOD DISTURBANCE SHALL BE CONFINED TO THE CONSTRUCTION LIMITS, AND ANYTHING OUTSIDE THE CONSTRUCTION LIMITS WILL BE REPAIRED BY THE CONTRACTOR.

**1 PLAN: DEMOLITION, REMOVALS, AND EROSION CONTROL**

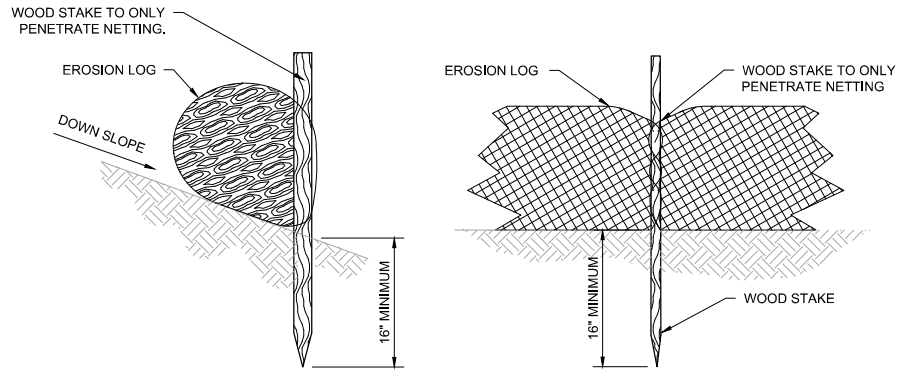


**2 PLAN: PARKING LOT SITE PLAN**



- NOTES:**
- ALL MATERIAL TO MEET FILTREXX<sup>®</sup> SPECIFICATIONS.
  - FILTREXX<sup>®</sup> FILLED WITH COURSE ROCK.
  - COMPOSITE MATERIAL TO BE DISPENSED OFF SITE BY CONTRACTOR.

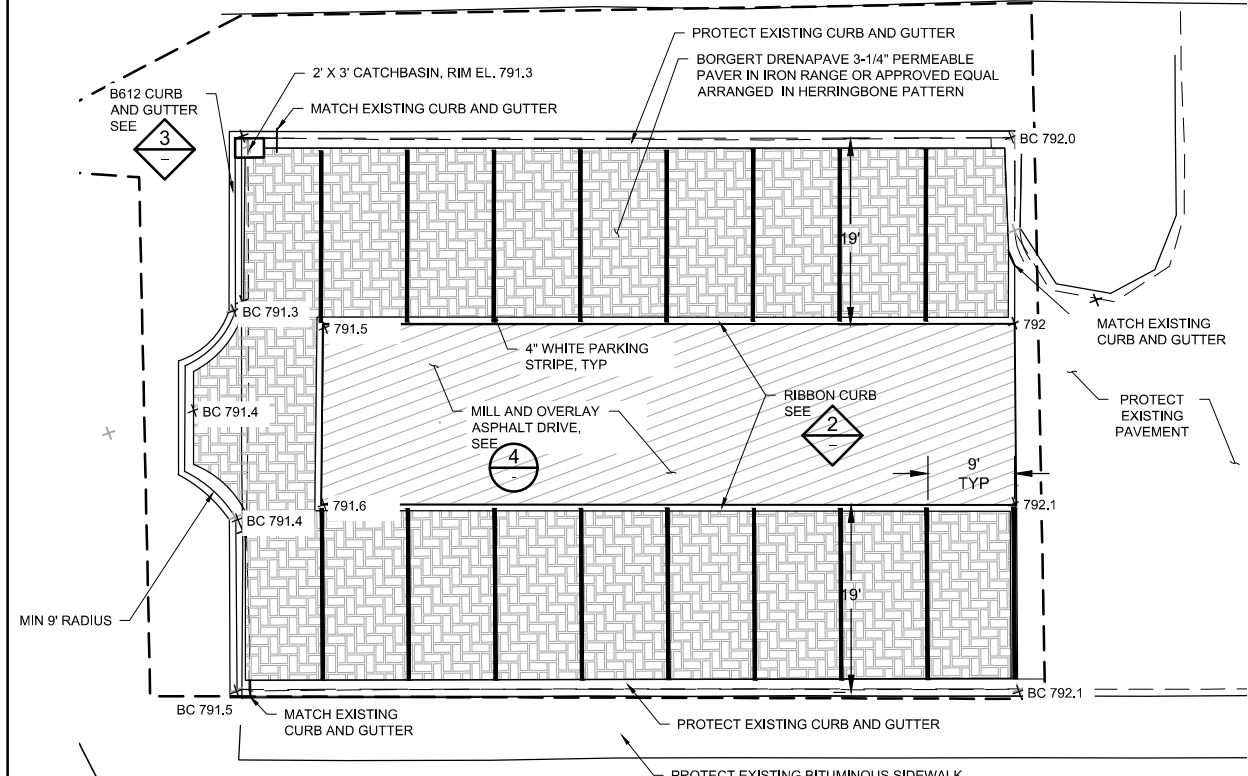
**3 DETAIL: FILTREXX<sup>®</sup> INLET PROTECTION**  
NOT TO SCALE



**4 DETAIL: SEDIMENT CONTROL LOG**  
NOT TO SCALE

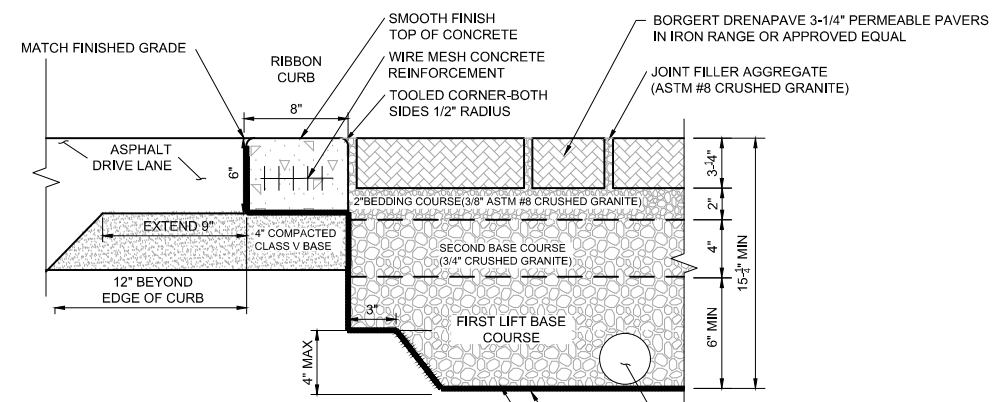
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: <b>MATT E. KUMKA</b> SIGNATURE: _____ DATE: _____ LICENSE # 53974		CLIENT: <b>BARR ENGINEERING CO.</b> 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: <b>AS SHOWN</b> Date: 12/26/2019 Drawn: EEF Checked: MEK2 Designed: EEF Approved: MEK2		<b>RAMSEY-WASHINGTON METRO WATERSHED DISTRICT</b> LITTLE CANADA, MN		<b>EASTSIDE BOYS AND GIRLS CLUB</b> ST. PAUL, MN REMOVALS, EROSION CONTROL, & PARKING LOT SITE PLAN		BARR PROJECT No. <b>23621172.00</b> CLIENT PROJECT No. _____ DWG. No. <b>C-01</b> REV. No. <b>0</b>	
				RELEASED TO/FOR: _____ DATE RELEASED: _____		NO. BY CHK. APP. DATE REVISION DESCRIPTION					

CADD USER: Erin E. Feehly FILE: M:\DESIGN\23621172\001\BARR\COMMERCIAL\BOYS AND GIRLS CLUB EAST SIDE\23621172\_00\_BOYS\_GIRLS\_C-02-PAVING-STRIPING PLAN.DWG PLOT SCALE: 1:2 PLOT DATE: 12/26/2019 12:47 PM



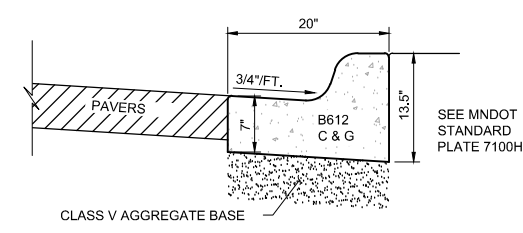
**1 PLAN: PAVING, AND GRADING PLAN**

0 10 20  
SCALE IN FEET



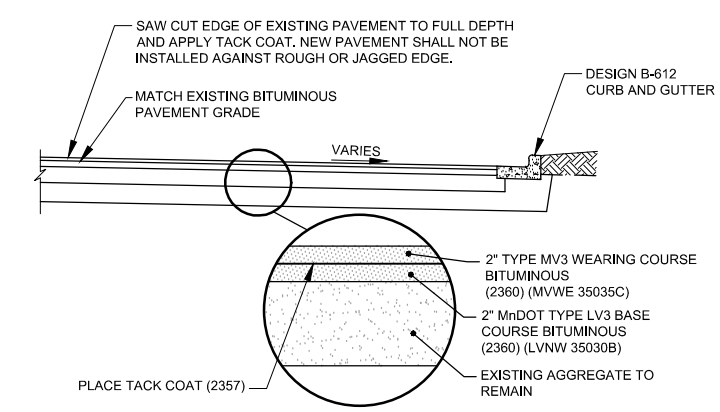
- NOTE:
- CONTROL JOINTS: EVENLY SPACED (8" MAX.)
  - EXPANSION JOINTS: AT ALL LOCATIONS WHERE CONCRETE EDGE MEETS CONCRETE CURB AND GUTTER
  - FOR CLEANOUT IN PAVING SEE **4**

**2 DETAIL: TYPICAL CONCRETE EDGE AND PERMEABLE PAVERS IN PARKING LOT**  
NOT TO SCALE



- NOTES:
- BROOM FINISH ALL EXPOSED SURFACES.
  - DIMENSIONS MATCH MNDOT DETAIL, UNLESS SHOWN OTHERWISE.
  - COMPACT UPPER 3' OF EXISTING SUBGRADE TO MIN. 100% STANDARD PROCTOR DENSITY (ASTM D698).

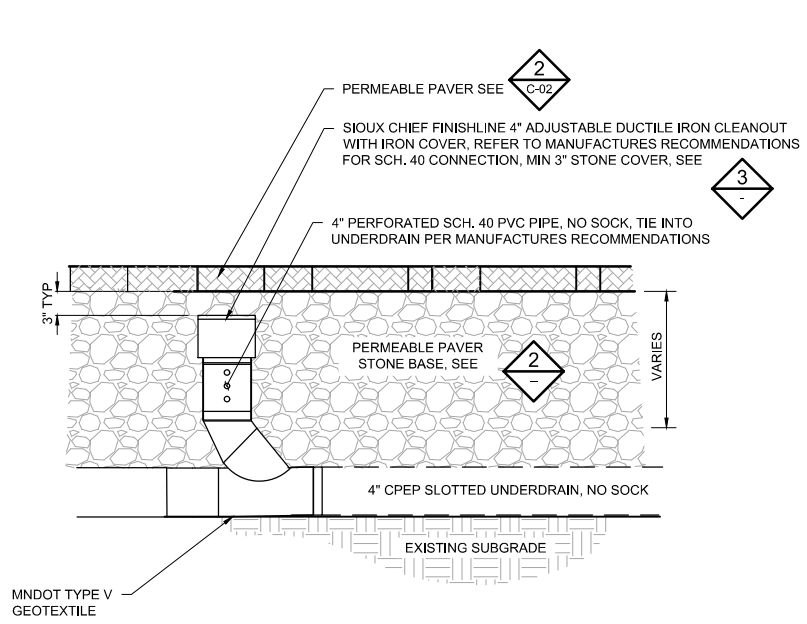
**3 DETAIL: B612 CURB AND GUTTER**  
NOT TO SCALE



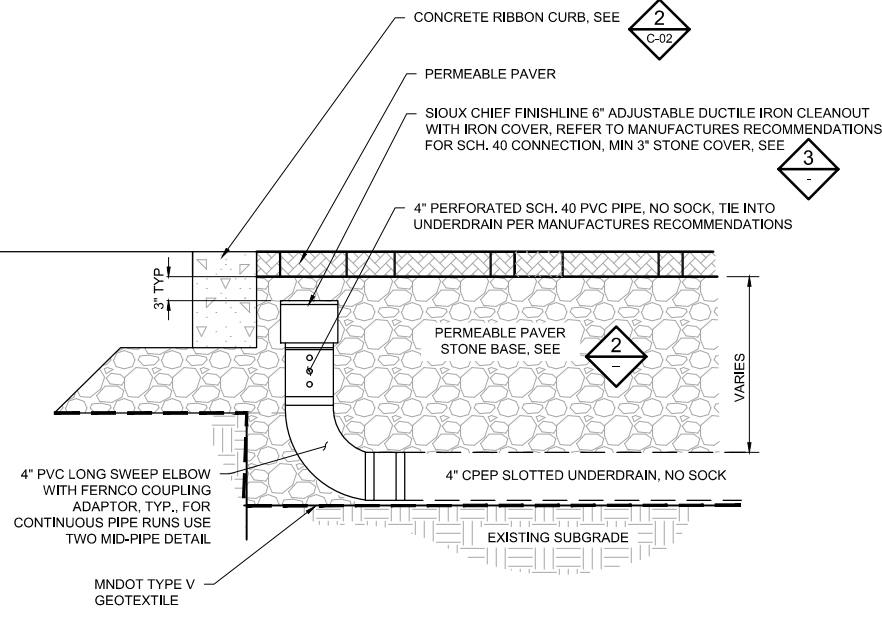
**4 SECTION: BITUMINOUS PAVEMENT PARKING LOT**  
NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: MATT E. KUMKA SIGNATURE: _____ DATE: _____ LICENSE # 53974		CLIENT: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: AS SHOWN Date: 12/26/19 Drawn: EEF Checked: MEK2 Designed: EEF Approved: MEK2		EASTSIDE BOYS AND GIRLS CLUB ST. PAUL, MN PAVING AND STRIPING PLAN		BARR PROJECT No. 23621172.00 CLIENT PROJECT No. DWG. No. C-02 REV. No. 0						
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A	B	C	0	1	2	3	DATE RELEASED

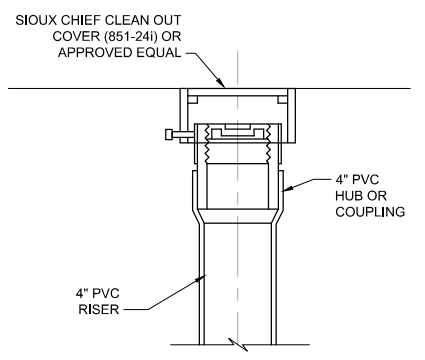
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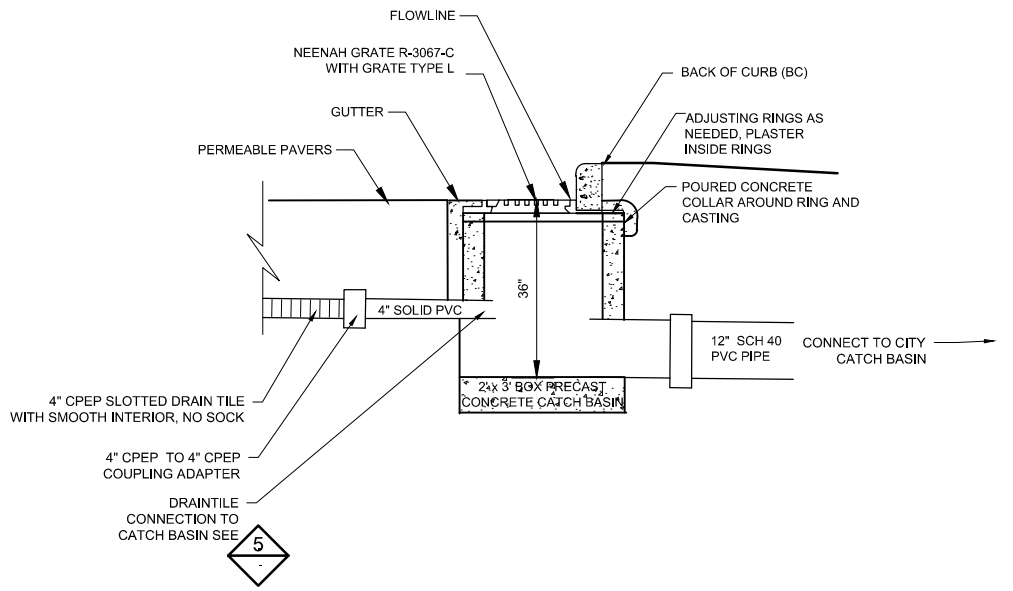
**1** DETAIL: TYPICAL UNDERDRAIN AND MID-PIPE CLEANOUT IN PAVING  
NOT TO SCALE



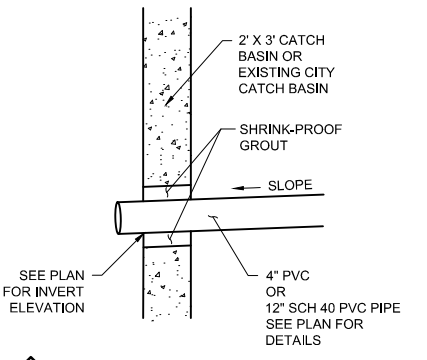
**2** DETAIL: TYPICAL UNDERDRAIN AND END PIPE CLEANOUT IN PAVING  
NOT TO SCALE



**3** DETAIL: DRAINTILE CLEAN OUT  
NOT TO SCALE



**4** DETAIL: DRAINTILE, CLEANOUT AND CATCH BASIN CONNECTION  
NOT TO SCALE



**5** DETAIL: DRAINTILE CONNECTION  
NOT TO SCALE

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 PRINTED NAME: MATT E. KUMKA  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ LICENSE # 53974

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

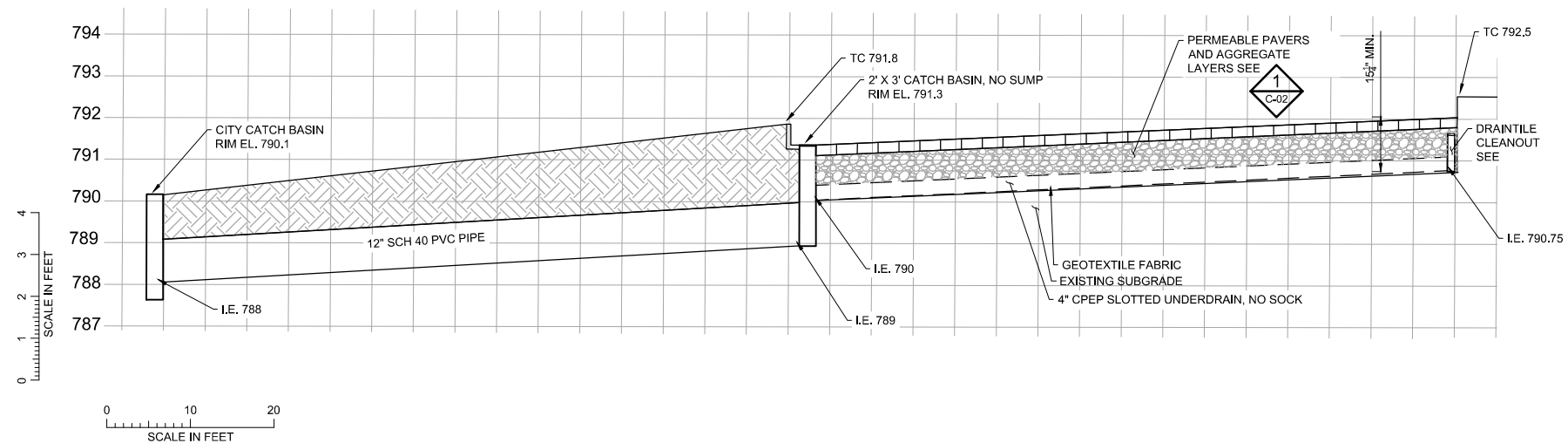
**BARR**  
 Project Office:  
 BARR ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 Suite 200  
 MINNEAPOLIS, MN 55435  
 Corporate Headquarters:  
 Minneapolis, Minnesota  
 Ph: 1-800-632-2277  
 Fax: (952) 832-2601  
 www.barr.com

Scale	AS SHOWN
Date	12/26/2019
Drawn	EEF
Checked	MEK2
Designed	EEF
Approved	MEK2

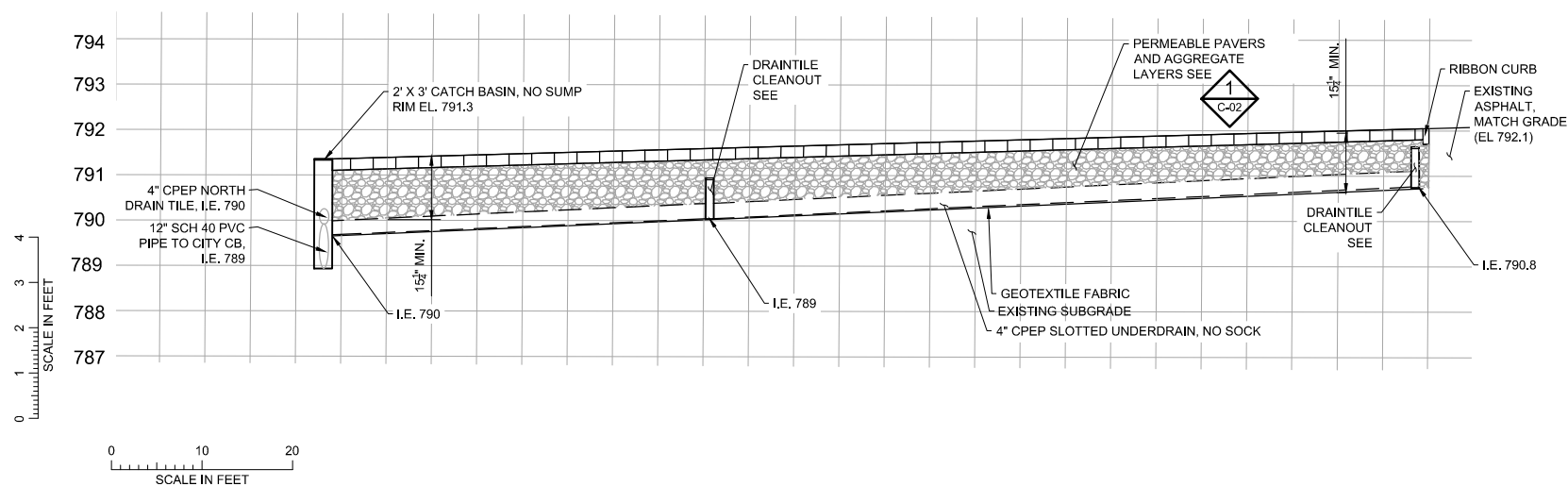
**RAMSEY-WASHINGTON METRO WATERSHED DISTRICT**  
 LITTLE CANADA, MN

**EASTSIDE BOYS AND GIRLS CLUB**  
 ST. PAUL, MN  
**DRAINTILE, CATCH BASIN AND INLET DETAILS**

BARR PROJECT No.	23621172.00
CLIENT PROJECT No.	
DWG. No.	C-03
REV. No.	



1 PROFILE: NORTH DRAINTILE TO EXISTING CITY CATCHBASIN CONNECTION  
SCALE AS SHOWN



2 PROFILE: SOUTH DRAINTILE TO PROPOSED CATCH BASIN  
SCALE AS SHOWN

CADD USER: Erin E. Feehly FILE: M:\DESIGN\23621172\00\018\COMMERCIAL\BOYS AND GIRLS CLUB EAST SIDE\23621172\_00\_BOYS\_GIRLS\_C-04 - PROFILES.DWG PLOT SCALE: 1:2 PLOT DATE: 12/28/2019 12:46 PM  
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 PRINTED NAME: MATT E. KUMKA  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ LICENSE # 53974

CLIENT							
BID							
CONSTRUCTION							
RELEASED TO/FOR							
DATE RELEASED							

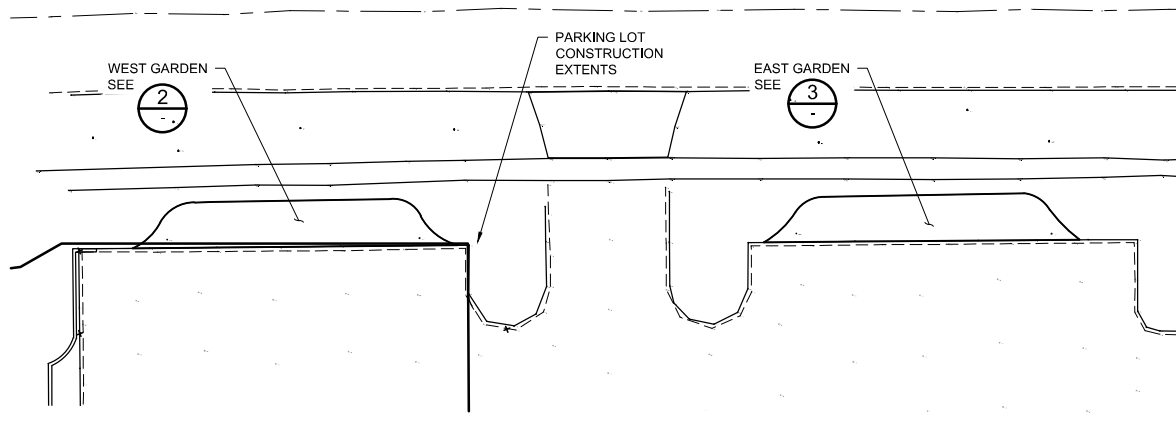
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Designed	EEF
Approved	MEK2

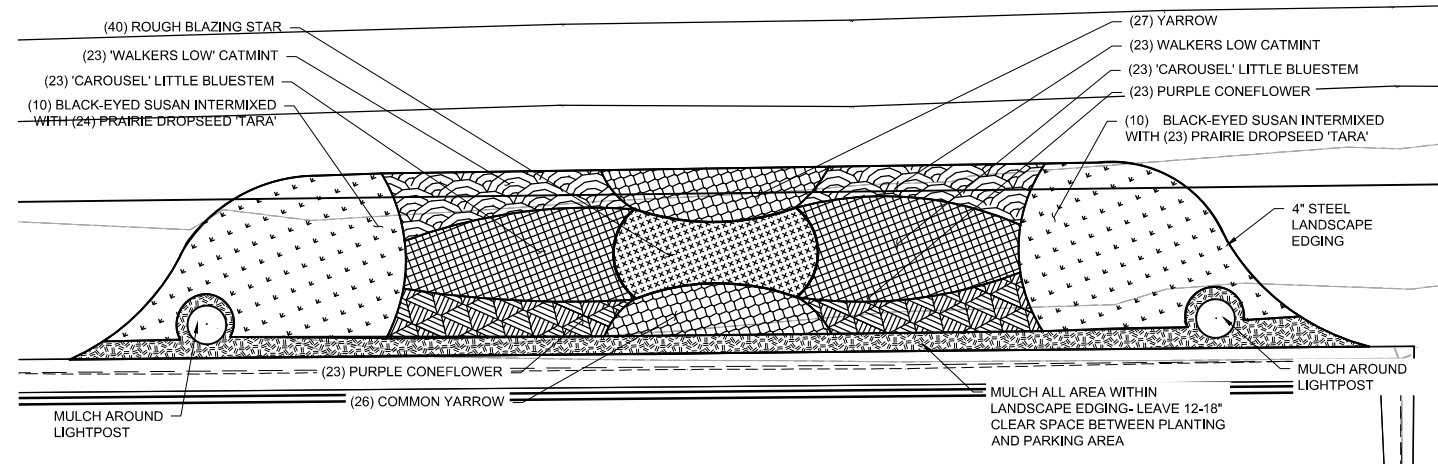
**RAMSEY-WASHINGTON METRO  
 WATERSHED DISTRICT**  
 LITTLE CANADA, MN

**EASTSIDE BOYS AND GIRLS CLUB**  
 ST. PAUL, MN  
**DRAINTILE PROFILES**

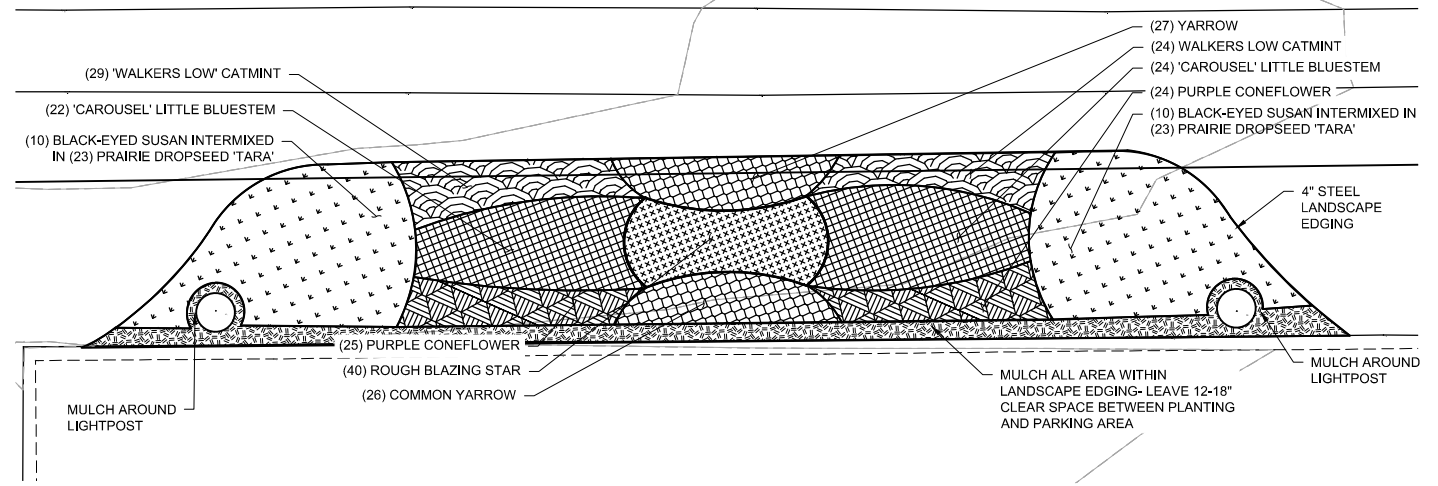
BARR PROJECT No.	23621172.00
CLIENT PROJECT No.	
DWG. No.	C-04
REV. No.	0



1 PLAN: GARDEN LOCATIONS  
1"=1'-0"



2 PLAN: WEST GARDEN PLANTING PLAN  
1"=1'-0"



3 PLAN: EAST GARDEN PLANTING PLAN  
1"=1'-0"



WEST GARDEN PLANTING SCHEDULE:

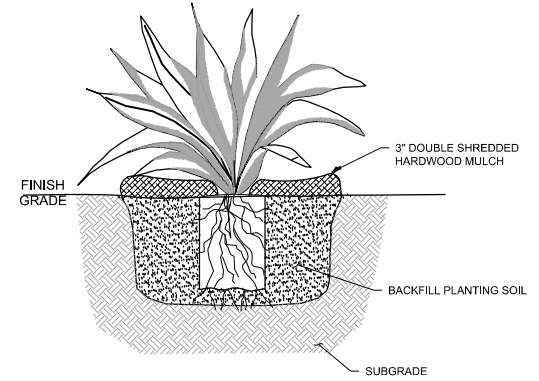
Common Name	Botanical	Size	Spacing	Qty
Black-eyed Susan	Rudbeckia hirta	4" PLUG	18" o.c.	20
Carousel' Little Bluestem	Schizachyrium scoparium 'Carousel'	#1 Cont.	18" o.c.	46
Common Yarrow	Achillea millefolium	4" PLUG	12" o.c.	53
Tara' Prairie Dropseed	Sporobolus heterolepis 'Tara'	#1 Cont.	18" o.c.	46
Purple Coneflower	Echinacea purpurea	4" PLUG	12" o.c.	49
Rough Blazing Star	Liatris aspera	4" PLUG	12" o.c.	40
Walkers Low' Catmint	Nepeta x faassenii 'Walkers Low'	#1 Cont.	12" o.c.	53

EAST GARDEN PLANTING SCHEDULE:

Common Name	Botanical	Size	Spacing	Qty
Black-eyed Susan	Rudbeckia hirta	4" PLUG	18" o.c.	20
Carousel' Little Bluestem	Schizachyrium scoparium 'Carousel'	#1 Cont.	18" o.c.	46
Common Yarrow	Achillea millefolium	4" PLUG	12" o.c.	53
Tara' Prairie Dropseed	Sporobolus heterolepis 'Tara'	#1 Cont.	18" o.c.	47
Purple Coneflower	Echinacea purpurea	4" PLUG	12" o.c.	49
Rough Blazing Star	Liatris aspera	4" PLUG	12" o.c.	40
Walkers Low' Catmint	Nepeta x faassenii 'Walkers Low'	#1 Cont.	12" o.c.	53

PLANTING NOTES:

1. POTHOLE ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS BEFORE EARTHWORK BEGINS.
2. INFORM THE LANDSCAPE ARCHITECT OF PLANTING TWO DAYS PRIOR TO PLANT DELIVERY.
3. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL PLANTS WITH DIRECTION OF LANDSCAPE ARCHITECT IN THE FIELD.
4. PLACE SHREDDED HARDWOOD MULCH (MN/DOT SPEC 3882.2 TYPE 6 - WEED SEED FREE SHREDDED HARDWOOD.) TO A DEPTH OF 3" WITHIN ALL PLANTING AREAS ONCE PLANT INSTALLATION IS COMPLETE.
5. INSTALL THE STEEL LANDSCAPE EDGING PER MANUFACTURER RECOMMENDATION INCLUDING STAKING SPACING AND QUANTITY.
6. CONTRACTOR WILL BE RESPONSIBLE FOR WATERING PLANTS (REGARDLESS OF NOTIFICATION) DURING ENTIRE WARRANTY PERIOD. WATERING WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
7. ALL EXISTING CONCRETE, ASPHALT, TREES TO BE KEPT AND TREE ROOTS SHALL BE PROTECTED. ANY DAMAGE TO EXISTING SITE FEATURES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SATISFACTION.
8. DAMAGE TO EXISTING STRUCTURES OR NEWLY CONSTRUCTED ITEMS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN THIS DETAIL, PLANS, OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.



PERENNIAL PLANTING NOTES:

1. PREPARE SOIL PER PLAN
2. PROVIDE AND INSTALL PLANTS PER SCHEDULE.
3. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL FORM OF PLANT.
4. DIG PLANT HOLES 18" MIN. LARGER THAN ROOT MASS, ALL SIDES.
5. SET PLANT ON LIGHTLY FIRMED BACKFILL SOIL AT THE SAME DEPTH GROWN IN THE NURSERY.
6. BACK FILL WITH PLANTING SOIL FIRM SOIL AROUND ROOT MASS TO MAINTAIN PLUMB AND ENSURE NO AIR GAPS AROUND ROOT MASS.
7. CONSTRUCT 3" WATERING BASIN. THOROUGHLY WATER WITHIN 3 HOURS OF INSTALLATION.
8. APPLY 3" DEPTH SHREDDED HARDWOOD MULCH TO ENTIRE PLANTING AREA (SOIL PREPARED AS PER PLAN).
9. NO MULCH TO BE IN CONTACT WITH PLANT.
10. WATER THOROUGHLY AFTER PLANTING.
11. CONTRACTOR WILL BE RESPONSIBLE FOR WATERING PLANTS (REGARDLESS OF NOTIFICATION) DURING ENTIRE WARRANTY PERIOD. WATERING WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
12. CONTRACTOR SHALL NOTIFY OWNER FOR A FINAL INSPECTION AFTER THE END OF THE PLANT GUARANTEE PERIOD, AND AGAIN AFTER ANY AND ALL REPLACEMENTS ARE PLANTED.

4 DETAIL: PERENNIAL PLANTING  
NOT TO SCALE

CADD USER: Erin E. Feehly FILE: M:\DESIGN\23621172\00\018\COMMERCIAL\BOYS AND GIRLS CLUB EAST SIDE\23621172\_00\_BOYS\_GIRLS\_L-01.DWG PLOT SCALE: 1:2 PLOT DATE: 12/26/2019 12:53 PM  
BARR:\Autocad\2011\Autocad\2011\Support\encl\Templates\Bar\_2011\_Template.dwt Plot at 1:100000000 14:03:50

		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: MATT E. KUMKA SIGNATURE: _____ DATE: _____ LICENSE # 53974		CLIENT: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: AS SHOWN Date: 12/23/2019 Drawn: EEF Checked: MEK2 Designed: EEF Approved: MEK2		<b>RAMSEY-WASHINGTON METRO WATERSHED DISTRICT</b> LITTLE CANADA, MN		<b>EASTSIDE BOYS AND GIRLS CLUB</b> ST PAUL, MN <b>PLANTING PLAN</b>		BARR PROJECT No. <b>23621172.00</b> CLIENT PROJECT No. DWG. No. L-01 REV. No. 0	
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	A	B	C	0	1	2	3	

\* \* \* \* \*

# Administrator's Report

\* \* \* \* \*



## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** February Administrator's Report  
**DATE:** January 30, 2020

### A. Meetings Attended

Monday, January 6	12:00 PM	Staff Training Meeting
	2:00 PM	Meet with Commissioner Frethem
Wednesday, January 8	2:00 PM	Washington County Water Consortium
	6:30 PM	Board Meeting
Thursday, January 9	1:00 PM	Target Retrofit Project Discussion
Friday, January 10	1:00 PM	West Vadnais Lake Outlet Project Meeting
Wednesday, January 15	9:00 AM	Met with Manager Swope
	10:30 AM	Lawns to Legumes Discussion
Thursday, January 16	11:00 AM	Human Resources Webinar
Friday, January 17	9:00 AM	Beltline Resiliency Stakeholder Meeting
Thursday, January 23	1:00 PM	Met with City of Shoreview
	6:00 PM	Ramsey Regional Park Master Plan Meeting
Friday, January 24	9:30 AM	Met with Insurance Agent
	10:00 AM	Met with HB Fuller
Tuesday, January 28	10:00 AM	Met with Innovative re: Office Needs
Wednesday, January 29	10:00 AM	Battle Creek PFAS Meeting
Thursday, January 30	10:00 AM	Met Property Owner re: Twin Lake Outlet
	2:00 PM	Met with Burt Johnson re: Twin Lake
Friday, January 31	9:00 AM	Met with Manager Aichinger

### B. Upcoming Meetings and Dates

Phalen Freeze Fest	February 29, 2020
March Board Meeting	March 6, 2020
April Board Meeting	April 1, 2020
May Board Meeting	May 6, 2020
WaterFest	May 30, 2020

**C. Administrator's Performance Review**

Manager Aichinger would like to schedule my review in the first few weeks of February if possible. I will be sending a meeting scheduling poll for you to respond to.

**D. Wetlands Special Board Meeting**

A meeting scheduling poll was sent out earlier this month to attempt to select a date in February for a special information meeting regarding various wetland topics. At this time we don't have a date that all 5 managers can attend. I wanted to check in and see if you'd like me to pull together some dates in March or if there would be any interest in holding the session ahead of the next board meeting. I know that makes for a long day/night but wanted to add that as an option in case that helps bring everyone together.

**E. Communications and Outreach Coordinator Position Update**

Since the last meeting, the position has been posted to the following sites:

- LinkedIn
- Indeed
- Minnesota Environmental Partnership
- League of Minnesota Cities
- Facebook
- MinnesotaWorks.net
- District Website

To date, we have received over 100 applicants. As I peruse them when they come in, I would say that about 10% of them truly meet the qualifications of the job. We will continue to collect the resumes until February 20<sup>th</sup>. In the meantime, I will be screening them for potential interview candidates and start scheduling those for the week of the 24<sup>th</sup>.

**F. Petition to Repair Ditch 16**

I am working with our attorney to complete a written response to the petition to repair ditch 16. I will bring that to the board meeting for your information.

**G. Board of Managers Meeting Minutes**

There has been some discussion at past meetings regarding the format and content of our meeting minutes. I thought this might be a good time to discuss as a board and make some changes, if desired. This is a placeholder for the board to have their discussion on this topic. I have attached some guidance from the State of MN and will also have our attorney weigh in if there are any questions.



REBECCA OTTO  
STATE AUDITOR

## STATE OF MINNESOTA OFFICE OF THE STATE AUDITOR

SUITE 500  
525 PARK STREET  
SAINT PAUL, MN 55103-2139

(651) 296-2551 (Voice)  
(651) 296-4755 (Fax)  
[stateauditor@osa.state.mn.us](mailto:stateauditor@osa.state.mn.us) (E-mail)  
1-800-627-3529 (Relay Service)

### Statement of Position Meeting Minutes

Minnesota law requires all public authorities and political entities to “make and preserve all records necessary to a full and accurate knowledge of their official activities.”<sup>1</sup> That is, the law requires that meeting minutes be created and maintained. Auditors review the minutes of a governing body when performing financial and compliance audits. Minutes are reviewed to determine if actions taken at the meeting meet statutory requirements. Consequently, the Office of the State Auditor receives questions concerning what items must or should be included in meeting minutes.

Minutes may be defined as a record of the “proceedings” of a governing body.<sup>2</sup> Minnesota law defines the term “proceedings” (and, therefore, the contents of the record or minutes of the “proceedings”) to include at minimum:

- the subject matter of a motion;
- the persons making and seconding a motion;
- the roll call vote on a motion;
- the character of resolutions or ordinances offered, including a brief description of their subject matter; and
- whether the motion to approve a resolution or ordinance was defeated or adopted.<sup>3</sup>

Similarly, Minnesota’s “Open Meeting” law requires that minutes include the individual votes of each member of the governing body on any action, including each appropriation of money other than “payments of judgments, claims, and amounts fixed by statute.”<sup>4</sup>

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<sup>1</sup> Minn. Stat. § 15.17.

<sup>2</sup> Various statutes that refer to taking or publishing minutes use the term “proceedings” or “official proceedings.” *See, e.g.*, Minn. Stat. §§ 384.09 (counties); 412.151, subd. 1 (statutory cities); 367.11(1) (towns); and 123B.09, subd. 10 (school districts).

<sup>3</sup> *See* Minn. Stat. § 331A.01, subd. 6. The League of Minnesota Cities has also compiled a list of items required in meeting minutes in their information memo titled “Meetings of City Councils,” at [http://www.lmc.org/media/document/1/meetings\\_of\\_city\\_councils.pdf?inline=true](http://www.lmc.org/media/document/1/meetings_of_city_councils.pdf?inline=true).

<sup>4</sup> Minn. Stat. § 13D.01, subd. 4.

Reviewed: January 2014  
Revised: July 2012

2007-1024

This Statement of Position is not legal advice and is subject to revision.

An Equal Opportunity Employer

Beyond these statutory requirements, the decision regarding how elaborate or extensive the minutes should be is within a governing body's discretion.<sup>5</sup> The amount of detail which is appropriate for inclusion in the minutes is likely to vary, depending on the nature of the proceedings and the subject matter involved. The minutes need not record the discussions of the members and others, or information relating to the process by which a decision is made. Moreover, the minutes should not be cluttered with unnecessary detail that could hamper efforts to review or otherwise use the minutes at a later date. In addition, the minutes should never reflect the clerk's or secretary's opinion on anything said or done.

Nevertheless, there will be instances where it would be wise for the governing body to include in the minutes information in addition to what is required to satisfy the minimum statutory requirements. For example, a governing body's reasons for reaching a particular decision may be important for defending a challenge to the action taken. In that circumstance, the minutes should include all findings of fact, conclusions, and reasons for conclusions so that an entity may defend its actions. Including this additional detail should protect the board against claims that it acted arbitrarily or capriciously in making its decision.

The Office of the State Auditor often reviews meeting minutes and recommends that meeting minutes include the following information in addition to the statutory requirements:

- type of meeting (regular, special, adjourned regular, adjourned special, recessed, or emergency);
- type of group that is meeting (*i.e.*, the governing body or a committee);
- date and place the meeting was held;
- the time the meeting was called to order;
- approval of minutes of the previous meeting, with any corrections noted;
- identity of parties to whom contracts were awarded;
- abstentions from voting due to a conflict and the member's name and reason for abstention;
- reasons the governing body awarded a particular contract to a bidder other than the lowest bidder;
- granting of variances and special use permits;
- approval of hourly rates paid for services provided, mileage rates, meal reimbursement amounts, and per diem amounts;
- a listing of all bills (including per diems) allowed or approved for payment, noting the recipient, purpose and amount;
- a list of all transfers of funds;
- appointments of representatives to committees or outside organizations;
- reports of the officers;

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<sup>5</sup> Charter cities may have adopted additional meeting minute requirements in their charters.

- authorizations and directions to invest excess funds, and information on investment redemptions and maturities; and
- the time the meeting concluded.

The Office of the State Auditor recommends that the minutes be signed by the clerk or secretary.

Meeting minutes also should be approved by the governing body, usually at the next meeting. The minutes should be signed and dated by a designated member of the governing body to indicate that they are the official meeting minutes.<sup>6</sup> The approved minutes are the official record of the proceeding.

Audio or video recordings of meetings are not meeting minutes and are not a substitute for meeting minutes.<sup>7</sup>

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<sup>6</sup> For some entities, Minnesota law specifies who must sign meeting minutes. *See, e.g.*, Minn. Stat. § 365.55 (requiring the minutes of town meetings to be signed by “the clerk of the meeting and the moderator”).

<sup>7</sup> With certain exceptions, however, a governing body must electronically record all closed meetings at its own expense. *See* Minn. Stat. § 13D.05, subd. 1(d).

#### H. Battle Creek PFAS Update

As you may recall, there was a press release from the Minnesota Pollution Control Agency (MPCA) and the Minnesota Department of Health (MDH) regarding Battle Creek and the discovery of higher levels of PFAS in foam along the creek. This was first discovered last fall and was thought to potentially be a one-time occurrence until further sampling was done two weeks ago and again levels were high in the foam. Eric Korte and I met (with Barr staff on the phone) with MPCA and MDH to discuss the finding and the potential next steps. We were given an overview of PFAS as well as more detailed information in what has been found in Battle Creek. Here are some of the take aways:

- MDH collected samples from Battle Creek and Battle Creek Lake – both surface water samples and foam samples were taken.
- PFAS is detected in surface water in Battle Creek and Battle Creek Lake but in extremely low concentrations – and in some cases lower than the drinking water standard.
- The foam that was sampled did show high concentrations of PFAS in the foam. 7 different PFAS compounds were detected.
- MDH and MPCA treat this similarly as they do for Harmful Algal Blooms. People and pets should avoid contact with the foam and wash skin/fur that has come in contact with foam. When in doubt, stay out.
- Surface water concentrations are much lower indicating water is safe for recreation.
- MDH and MPCA will continue to collect data and conduct additional recreational risk assessments.
- The work is being done under MPCA's Superfund Site Assessment program which will do the following things:
  - Confirm earlier results
  - Develop lines of evidence for determining potentially responsible party
  - Bring those potential parties into the Superfund program.
  - The MPCA plans to evaluate results and information to identify the parties in February and March of this year.
- The District will work to provide data as requested by the MPCA. District subwatershed information, groundwater/surface water interaction information and city storm sewer networks are most useful.

Staff will update the board as more information becomes available. The overview presentation of PFAS given by the MDH was very informative and would be a good presentation for the board to hear if they are interested in inviting MDH to a meeting.

**I. Stormwater Impact Fund Information**

As was discussed a previous meeting, I wanted to give the board background and a reminder for the purpose, function and use of the Stormwater Impact Fund.

When the District revised its rules in 2005/6 and made a substantial change to require volume reduction for permitted sites that was a big change for our cities and other applicants. We had a long process of technical advisory committee (TAC) meetings to get us to the end result. As part of that process, a volume reduction sequencing process was developed for the rules that would allow an applicant to walk through the ability to provide infiltration on their site. The district require an applicant to first look at infiltration on their site as priority one. If that isn't possible, the applicant enters the alternative compliance sequencing process. Here the applicant first must look to filtrate the water on their site and next look for either banked credits or another offsite location to meet the requirements. The last step in sequencing is for the applicant to pay into the Stormwater Impact Fund (SIF).

The SIF was developed to cover the cost of implementing equivalent volume reduction elsewhere in the watershed. If the applicant can't do it, the district could use those funds to complete volume reduction projects instead. Money contributed to the fund shall be allocated in the same subwatershed in which the money was collected. The rules also state that money contributed by a local government shall be spent which in that LGUs jurisdiction to the extent possible.

The SIF contribution amount is calculated based on the acres of impervious surface the project includes minus any partial treatment that is provided on site. Over the last 14 years, the district has collected approx. \$2.5 million dollars with 14 permit projects contributing to the fund. To date a portion of the funds collected in the Kohlman Creek subwatershed were used during the implementation of the Maplewood Mall project. As we have looked at the upcoming Targeted Retrofit projects for 2020, we would like to use those funds in the correct subwatersheds to help fund the implementation. Below is a table with the potential allocation of SIFs as well as the use of opportunity funds and targeted retrofit funds.

2020 Targeted Retrofits Projects	Project Estimate	SIF	Opportunity Funds (\$1.6 mill)	Targeted Retrofit Funds
Boys & Girls Club	\$98,000	\$4,829	\$0	\$93,172
Target Suburban Ave	\$1,500,000	\$730,902	\$769,098	\$0
Target North St. Paul	\$1,500,000	\$123,713	\$830,902	\$545,385
St. Rose of Lima	\$261,000	\$32,101	\$0	\$228,899
<b>TOTAL</b>	<b>\$3,359,000</b>	<b>\$891,545</b>	<b>\$1,600,000</b>	<b>\$867,455</b>

\* \* \* \* \*

# Project and Program Status Reports

\* \* \* \* \*



## Project Work Plan

Original Date: August 14, 2019

Updated: January 24, 2020

**Project:** Targets and Motel 6 Stormwater Retrofits / 23621328.00

### Project Team

District Staff: Paige Ahlborg

Barr Staff: Erin Anderson Wenz, Leslie DellAngelo, Matt Kumka, Josh Phillips, Katie Turpin-Nagel, Kallie Doeden, Dallen Webster, Gareth Becker

### Barr Team Roles

Principal-in-charge	Erin Andersen Wenz
Project Management:	Leslie DellAngelo
Design Engineers:	Katie Turpin-Nagel, Josh Phillips, Kallie Doeden, Dallen Webster,
Design Technician:	Gareth Becker
Landscape Architecture:	Matt Kumka
Communications:	Matt Kumka

### District Staff

Project Manager: Paige Ahlborg

### Target Corp. Staff

Stormwater Program Manager: Dan Latham

### Motel 6 Staff

General Manager: Ebony Jenkins-Taylor

### Scope of Work

The project consists of developing concept design, final design, preparing plans and specifications, conducting project bidding, and construction observation for stormwater retrofit projects at two Target retail locations (North St. Paul and Suburban Ave. St. Paul) and one Motel 6 (Old Hudson Rd. St. Paul). The stormwater retrofits will not alter the surface parking layout of the existing parcels owned by Target and Motel 6, but will utilize existing open space for surface projects and underground treatment systems. Parking space can be reduced on the parcel adjacent to Motel 6. Treatment systems will be design and selected to be economical, similar to those selected by private developers in the district.

The deliverables for this project will be conceptual plans, complete and final plans and specifications, presentation of bids, weekly construction updates, and submittal of monthly payment applications during active construction.

## **Budget**

Barr will complete the work outlined above on a time and expense basis, for an estimated **\$289,400**.

## **Schedule**

We propose the following schedule, milestones and deliverables.

**Task 1 (September 2019): Topographic Survey.** A topographic survey will be conducted to establish existing grades and elevations and locations of existing infrastructure and utilities. The survey will be conducted using a total station and/or survey grade GPS with horizontal and vertical accuracy of +/-0.2 feet.

**Task 2 (November 2019): Conceptual Designs.** Conceptual design options will be developed and presented to district staff and/or the board of managers.

**Task 3 (February 2020): Soil Borings.** Soil borings will be done at each prospective project to evaluate infiltration capacity of the existing soils.

**Task 4 (May 2020): Engineering and Design.** All contract documents and bidding documents will be completed. This task includes all hydrologic and hydraulic modeling and calculations and design development.

**Task 5 (June 2020): Project Bidding.** The project will be publicly bid and a contractor will be recommended to the board.

**Task 6 (June - October 2020): Construction Observation.** Construction oversight and administration will be provided during construction of the project.

### ***Detailed Project Update on Target Sites for February Board meeting***

Conceptual design for the Targets in North Saint Paul and East Saint Paul started with a site visit in mid-September 2019 to assess the site's capabilities for retrofit designs. The site visit revealed a few potential locations for surface best management practices (BMPs); however, due to the significant area of impervious on the site, it was quickly realized that a treatment goal of 1.1 inches from impervious surfaces would be difficult to achieve with surface BMPs alone. After receiving survey of the site in late October 2019, conceptual design of subsurface BMPs started in earnest (e.g., tree trenches, underground filtration vaults). In early November 2019, three site conceptual design options were presented to RWMWD staff. These included options that were comprised of tree trenches only, subsurface storage/treatment only, and

a combination of tree trenches and subsurface storage/treatment. The November meeting helped to better establish District goals for the site and to discuss initial cost estimates for this level of commercial retrofit. A second conceptual design meeting was held with RWMWD staff in late December 2019 to discuss the final conceptual design options for the site that would be presented to Target. The second conceptual design meeting included some revised options which included a combination of tree trenches, a surface rain garden (at two different proposed locations), and subsurface storage/treatment. At this meeting cost/benefit ratios of the options were also discussed and evaluated.

In early January 2020, retrofit designs were presented to representatives from Target. In general, they were open to having different BMP types on the site and were willing to consider the removal of parking spaces to include additional surface BMPs. Barr and RWMWD are still waiting for a final decision on parking space removal and are hoping to hear a conclusion within the next week. The major comments provided on the conceptual designs was to ensure that all entrances to the Target remained open during construction, ensure that tree trenches are designed so that sight lines to Target signage remain clear, and a note that at the North St. Paul site a gas station was previously located in the vicinity of the east edge of the parking lot and some remaining contaminated soils could remain.

#### **North St. Paul Target Retail Store**

- Two tree trenches in the northwest quadrant of the parking lot that will be sized to treat 0.55 inches of runoff from tributary impervious surfaces.
- One surface rain garden that will treat 1.1 inches of runoff from the tributary impervious area. The rain garden could be oversized to treat 2.0 inches of runoff from the tributary impervious area.
- One subsurface storage and treatment vault that will be sized to treat 1.1 inches of runoff from the tributary impervious area.
- The presented design has a conceptual design opinion of cost ranging from \$1.1 – 1.9 million and a project average annual total phosphorus removal of approximately 6.3 pounds per year.
- Estimated annual cost per lb of TP removed is \$19,000.

#### **East St. Paul Target Retail Store**

- Three surface rainwater gardens that will treat 0.85 – 1.0 inches of runoff from their tributary impervious surfaces. The rainwater garden in the parking lot will be removed from the design if Target decides that parking space removal is not feasible.
- One tree trench spanning the Target parking lot that will be sized to treat 0.55 inches of runoff from tributary impervious surfaces.
- One subsurface filtration vault that will be sized to treat 0.5 – 1.1 inches of runoff depending on space limitations and Target's decision to include the parking lot surface rainwater garden.
- The presented design has a conceptual design opinion of cost ranging from \$1.0 – 1.6 million and a project average annual total phosphorus removal of approximately 7 pounds per year.
- Estimated annual cost per lb of TP removed is \$14,900.

Barr will continue to modify the design as we receive additional feedback from the District and Target.

Attachments:

1. Concept Design Figure for the East St. Paul Target Retail Store site
2. Concept Design Figure for the North St. Paul Target Retail Store site

# Project Tracking

## Project Milestones

Milestone	Estimated Completion Date	Actual Completion Date
Design Team Kickoff	August 2019	August 2019
Topographic Survey Completed	October, 2019	October 2019
Conceptual Designs Completed	October/November 2019	November 2019 (Target)
Meeting with Target and Motel 6	January, 2020	January, 2020 (Target)
Soil Borings Completed	February, 2020	
30% Draft Plans (Internal)	February, 2020	
95% Draft Plans and Specifications (Internal)	Mid-March, 2020	
95% Plans, Specs, Cost Estimate for Target, Motel 6 and District Review	Late March, 2020	
95% Comments Due from Target, Motel 6 and District	Late April, 2020	
100% Plans and Cost Estimate for Board Approval	May Meeting, 2020	
Public Bid Release	Early May, 2020	
Bids Received	Late May, 2020	
Contractor Recommendation to Board	June Meeting, 2020	
Notice to Proceed	June, 2020	
Construction Substantial Completion/Plant Establishment Period Begins	October 30, 2020	
Plant Establishment Period Ends	October, 2021	

## Project Budget Tracking (Engineering)

Project Objectives	Estimated Budget*	Spent to Date
Task 1: Topographic Survey	\$24,720.00	\$31,830.70
Task 2: Conceptual Design	\$58,000.00	\$69,802.70
Task 3: Soil Borings	\$25,680.00	\$1,261.00
Task 4: Engineering and Design	\$60,000	\$1,459.00
Task 5: Plans and Specifications	\$76,000.00	\$1,990.00
Task 6: Bidding and Construction Observation	\$45,000.00	\$9.50
<b>Total</b>	<b>\$289,400.00</b>	<b>\$106,352.90</b>

\*Barr budget only- these totals do not include RWMWD project budgets. See project construction estimates up above in write up.

## Project work plan

January 29, 2020

**Project:** Ames Lake flood risk improvements feasibility study

### Project team

RWMWD staff: Tina Carstens (project manager)

Barr staff: Erin Anderson Wenz, Michael McKinney, Leslie DellAngelo, Lulu Fang, Brandon Barnes, Tyler Conley

### Scope of work

The purpose of this project is to identify the most cost-effective system modification or combination of system modifications to remove habitable structures near Ames Lake from the 100-year floodplain. The project will allow the Ramsey-Washington Metro Watershed District (RWMWD) to identify a cost-effective strategy for managing flood risk within this portion of the watershed and enable the RWMWD to budget accordingly should the board choose to move forward with the final design, permitting, bidding, and construction.

Atlas 14 modeling updates in 2015 revealed that the Ames Lake area downstream of Lake Phalen and northeast of Johnson Parkway and Magnolia Avenue is a significant flood-prone area. A desktop study revealed that 26 homes and businesses may be located within the flood zone, and that an additional 13 homes and businesses are very near it. The Beltline resiliency study (2019 draft) showed that an option for mitigating flood risk includes a combination of regional stormwater ponds and several local system modifications such as storm sewer modifications and additional catch-basin inlet capacity. Many system modifications may be more consistent with the types of projects that municipalities typically complete, such as additional catch-basin inlets, improvements to the municipal storm-sewer system, and local flood storage expansion.

This study will evaluate the benefit-cost relationships through a review of possible pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective to remove habitable structures from the floodplain. The outcome of this study will identify the most cost-effective alternative as a possible next step in flood management for the area, and will include an option of evaluating purchasing homes in the flood zone in lieu of or in combination with system modifications. Cost estimates will allow the RWMWD to budget accordingly should the board choose to move forward with the final design, permitting, bidding, and construction.

Barr proposes the following tasks:

**Task 1: data collection:** This task includes surveying low habitable structures identified as potentially flood-prone. The survey will include collecting information for the low opening and low adjacent grade for each structure. We will also request current storm-sewer information from the city and complete a survey

to verify critical elevations or missing information. We will also gather utility information, which may conflict with proposed system modifications.

**Task 2: evaluate flood-risk reduction options:** This task includes using the RWMWD stormwater model to evaluate flood-risk reduction options. We anticipate that the following options will be evaluated, and that additional options may be identified during the feasibility study. In many instances, a combination may be required to reduce flood risk in the area.

- Construct regional stormwater ponds south of Phalen Boulevard and east of Johnson Trail
- Expand Hoyt Pond
- Modify storm sewer system near Ames Lake and the wetland south of East Magnolia Avenue
- Develop emergency response plan
- Purchase flood-prone properties

**Task 3: stakeholder engagement:** This task includes up to two coordination meetings with the City of Saint Paul to review inundation extents, identify upcoming opportunities and city projects, discuss conflicts that could prevent system modifications, and review results.

**Task 4: environmental assessment:** This task includes completing phase I and II environmental site assessments for potential property acquisitions, if this appears to be a cost-effective option.

**Task 5: design alternatives:** This task includes reviewing the findings of tasks 2, 3, and 4 to develop options for reducing flood risk near Ames Lake. As part of this task, we will develop planning-level opinions of cost for design, construction, and permitting of each alternative.

**Task 6: permit requirements:** This task includes identifying applicable permitting requirements for each design alternative identified in task 5. We will review requirements for local, state, and federal governmental units with permitting jurisdiction. Permitting requirements will be summarized in the final documentation.

**Task 7: documentation:** This task includes preparing a draft documentation report summarizing the methodology, alternatives, estimated costs, and permitting requirements. The report will identify the most cost-effective option evaluated. This task also includes presenting the findings of the feasibility study to the board.

## Budget

The approximate cost for Barr to complete the work outlined above is **\$50,000**.

## Schedule

The draft report and related presentation will be provided to the RWMWD board for review and comment at the July 1, 2020 board meeting. After addressing the board's comments, the report will be finalized by July 31, 2020 for use in 2021 budgeting.

## Project tracking

### Project milestones

Milestone	Estimated date	Actual date
Project start	January 2020	
Task 1: data collection	March 2020	
Task 2: evaluate flood-risk reduction options	May 2020	
Task 3: stakeholder engagement	May 2020	
Task 5: design alternatives	June 2020	
Task 6: permit requirements	June 2020	
Task 7: documentation	July 2020	

### Monthly updates

Month	Budget spent (\$/%)
March 2020	
April 2020	
May 2020	
June 2020	
July 2020	



## Project work plan

January 29, 2020

**Project:** Keller channel and Phalen outlet design and implementation

### Project team

RWMWD staff: Tina Carstens (project manager)

Barr staff: Brad Lindaman, Greg Nelson (project manager), Brandon Barnes, Lulu Fang, Tyler Conley, Chris Bonick

### Scope of work

This project includes the design, bid document development, bidding, permitting, and project procurement of the modifications to the Keller channel structure and the Phalen outlet structure. The purpose is to implement a design that would allow the RWMWD to remotely adjust the weir heights on the Keller channel structure and the Phalen outlet structure in accordance with an approved operating plan. The operation of the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain.

Work on this project would include development of an operating plan that utilizes data and flooding scenarios from the Beltline resiliency modeling. The design also includes integration and remote interface with the RWMWD IT network to allow RWMWD staff to operate the weir gate remotely.

### Work tasks

- Use the RWMWD stormwater model to further evaluate flood-risk reduction options and translate the results into a written operating plan that will inform design of the weir gates
- Design a gate on each structure that could be remotely controlled and adjusted in real time per the operating plan
- Determine permit requirements for each modification and apply for permits
- Create bidding documents and advertise the project for bid
- Complete construction oversight and administration
- Program RWMWD interface to allow remote operation by RWMWD staff per the operating plan and train RWMWD staff on its use

### Budget

The approximate cost for Barr to complete the work outlined above is **\$250,000**.

### Schedule

The draft plans and specification will be presented to the board at the August meeting for consideration and approval to advertise for bid. Construction would begin in October 2020.

## Project tracking

### Monthly updates

Month	Budget spent (\$/%)
March 2020	
April 2020	
May 2020	
June 2020	
July 2020	

## Project work plan

January 29, 2020

**Project:** Owasso basin bypass pipeline feasibility study

### Project team

RWMWD staff: Tina Carstens (project manager)

Barr staff: Erin Anderson Wenz, Matt Metzger, Leslie DellAngelo, Lulu Fang, Brandon Barnes, Tyler Conley

### Scope of work

Atlas 14 modeling updates in 2015 identified Owasso basin and its surrounding areas as the highest concentration of flood-prone habitable structures in the Ramsey-Washington Metro Watershed District (RWMWD). A desktop study revealed that 77 homes and businesses are located within the flood zone, and that an additional 54 homes and businesses are very near the flood zone. A 2018 study of the Owasso basin area showed that redirecting flows south from a drainage area east would significantly lower flood levels. That, in combination with other modifications near Owasso basin such as raising Ryan Drive and modifications to the storm sewer system, would remove most homes in this area from the flood zone.

Redirection of the drainage area would require a bypass pipeline to convey peak flows (around 200 cubic feet per second) from an area between Country Drive and the I-35E/I-694 interchange, south to Gervais Creek, east of I-35E.

This study will evaluate the benefit-cost relationships by reviewing potential pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the floodplain. The outcome of this study will provide the most cost-effective alternative as a possible next step in flood management for the area and would include an option of purchasing homes in the flood zone in lieu of the bypass pipeline. Cost estimates will allow the RWMWD to budget accordingly should the board choose to move forward with the final design, permitting, bidding, and construction.

### Work tasks

- Data collection:
  - Gather/review existing data from utilities that may create conflicts along potential pipe alignments
  - Survey low-entry and low-adjacent grade elevations for existing habitable structures
  - Survey storm sewer information not included in city GIS data
- Use the RWMWD stormwater model to evaluate flood-risk reduction options; we anticipate that the following options will be evaluated, and that additional options may be identified when more information is available

- Up to two alignments for diversion pipe, including I-35E crossing modification
- Purchase of Fra-Dor property and expansion of Owasso basin (in combination with diversion pipe)
- Purchase of flood-prone habitable structures
- Complete phase I and II environmental site assessment for any property purchases, if this appears to be a cost-effective option
- Develop design alternatives and related basin expansion options as well as associated costs
- Determine permit requirements and possible permitting challenges
- Prepare a preliminary design recommended option for use in budgeting and permitting
- Draft report and present to the board for input
- Develop a final report describing the alternatives and their corresponding costs

## Budget

The approximate cost for Barr to complete the work outlined above is **\$125,000**.

## Schedule

The draft report and related presentation will be provided to the RWMWD board for review and comment at the July 1, 2020 board meeting. After addressing the board's comments, the report will be finalized by July 31, 2020, for use in 2021 budgeting.

## Project tracking

### Monthly updates

Month	Budget spent (\$/%)
March 2020	
April 2020	
May 2020	
June 2020	
July 2020	

## Project work plan

January 29, 2020

**Project:** West Vadnais to south of I-694 conveyance feasibility study

### Project team

RWMWD staff: Tina Carstens (project manager)

Barr staff: Brad Lindaman, Erin Anderson Wenz, Greg Nelson (project manager), Tyler Conley, Lulu Fang, Brandon Barnes

### Scope of work

Since 2016, the wet precipitation cycle has created sustained high water levels in West Vadnais Lake and Grass Lake. The high water levels have occasionally flooded Gramsie Road and Rice Street and have led to overflows into landlocked low areas, particularly onto Ramsey County Park property in Shoreview. The high water level issue is exacerbated by the small existing outlet at the south end of West Vadnais Lake, which limits discharge from the area through I-694 to the south. Increasing the discharge through I-694 without downstream improvements or without particular timing constraints raises flood levels in water bodies that already have adjacent homes in the flood zone, particularly Owasso basin and Gervais Lake.

The scope of this study includes preparing preliminary design and alignment for a larger discharge pipeline that could be utilized when conditions allow and/or when downstream improvements are implemented. It will accommodate an increase discharge in peak flows and volumes south through I-694 and allow for improved water-level recovery after runoff events. The goal is to establish the NWL of the system at elevation 881.0 and the 100-year flood level at elevation 884.0 without increasing flood levels downstream.

This study will consider seasonal operation of the system prior to its connection with downstream improvements, and quantify those benefits using the RWMWD's hydrologic model, for the board to consider in its planning and decision-making.

After preliminary design of the system is complete, cost estimates associated with design, permitting, and implementation will be provided to the board to consider and to budget accordingly, should the board choose to move forward with final design, permitting, bidding and construction of this pipeline.

### Work tasks

- Collection data
  - Gather utility information, which may conflict with proposed storm sewer
  - Complete surveying to verify critical control points and existing infrastructure constraints
  - Identify property and easement needs and related costs
- Determine permit requirements and challenges and timing of approvals

- Draft report and present to the board for input
- Develop a final report describing the alternatives and their corresponding costs

## Budget

The approximate cost for Barr to complete the work outlined above is **\$35,000**.

## Schedule

The draft report and related presentation will be provided to the RWMWD board for review and comment at the June 3, 2020 board meeting. After addressing the board's comments, the report will be finalized by June 30, 2020, for use in 2021 budgeting.

## Project tracking

### Monthly updates

Month	Budget spent (\$/%)
March 2020	
April 2020	
May 2020	
June 2020	
July 2020	

## Project work plan

January 29, 2020

**Project:** Willow Creek flood risk improvements feasibility study

### Project team

RWMWD staff: Tina Carstens (project manager)

Barr staff: Erin Anderson Wenz, Leslie DellAngelo, Lulu Fang, Brandon Barnes, Tyler Conley

### Scope of work

Atlas 14 modeling updates in 2015 revealed that the upstream area of Willow Creek, east of Highway 61 and north of Buerkle Road, is a significant flood-prone area in the Ramsey-Washington Metro Watershed District (RWMWD). A desktop study revealed that 12 homes and businesses are located within the flood zone, and that an additional six homes and businesses are very near the flood zone. The Beltline resiliency study (2019 draft) showed that one option for mitigating flood risk is to increase flows from the east to a storage area northwest of the intersection of I-694 and Highway 61. Increasing flows, in combination with expanding the flood storage area, would remove most homes in this area from the flood zone upstream.

Increasing flows will require either an additional pipe or a new pipe from east of the railroad tracks near Buerkle Road to a point west of Highway 61. This pipeline would route peak flows to the flood storage area, which would need to be managed with modifications to the outlet that currently routes flows diagonally through the intersection. These modifications would need to balance increasing flood levels in the area with developing a total of approximately 50 acre-feet of live flood storage.

This study will evaluate the benefit-cost relationships by reviewing possible pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective. The outcome of this study will provide the most cost-effective alternative as a possible next step in flood management in the area and will include an option to purchase homes in the flood zone in lieu of the bypass pipeline. Cost estimates will allow the RWMWD to budget accordingly should the board choose to move forward with final design, permitting, bidding, and construction.

### Work tasks

- Collect data
  - Survey low-habitable structures identified as potentially flood-prone
  - Request storm sewer information from the city and conduct surveys of critical inverts as necessary
  - Gather utility information, which may conflict with proposed storm-sewer modifications

- Use the RWMWD stormwater model to evaluate flood-risk reduction options; we anticipate that the following options will be evaluated, and that additional options may be identified when more information is available
  - Increase storm sewer capacity between railroad tracks and Highway 61 and provide floodplain storage west of Highway 61
  - Provide floodplain storage in Lakewood Park (this option may also include increasing storm sewer capacity between the railroad tracks and Highway 61)
  - Develop an emergency response plan
  - Purchase flood-prone properties
- Complete phase I and II environmental site assessment for potential property purchases, if this appears to be a cost-effective option
- Develop up to four design alternatives and related basin expansion options as well as associated costs
- Determine permit requirements for each modification
- Draft report and present to the board for input
- Develop a final report describing the alternatives and their corresponding costs

## Budget

The approximate cost for Barr to complete the work outlined above is **\$50,000**.

## Schedule

The draft report and related presentation will be provided to the RWMWD board for review and comment at the July 1, 2020 board meeting. After addressing the board's comments, the report will be finalized by July 31, 2020, for use in 2021 budgeting.

## Project tracking

### Monthly updates

Month	Budget spent (\$/%)
March 2020	
April 2020	
May 2020	
June 2020	
July 2020	



## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report – February 2020  
**Date:** January 30, 2020

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### Project feasibility studies

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#### **Beltline resiliency study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to evaluate system-level flood damage reduction options, including real-time mechanical alteration of Lake Phalen and Keller Lake channel outlet structures, as well as other critical system infrastructure, to actively manage stormwater runoff from flood-prone areas tributary to the Beltline storm sewer in an effort to reduce flood levels that would otherwise impact homes. The evaluation will use the RWMWD stormwater model to simulate system-level modifications to evaluate how adjustments to outlet structures during a flood event may be able to optimize the existing system performance to reduce flooding impacts to homes adjacent to RWMWD-managed water bodies.*

Barr led a workshop on January 17 for the cities within the RWMWD, Ramsey and Washington counties, and the Minnesota Department of Natural Resources (DNR) to provide an overview of the draft Beltline resiliency report and discuss key findings. During the workshop, we reviewed the evaluation methodology, key system modifications, and general sequencing considerations, as well as study limitations, assumptions, and next steps. At the end of the workshop, Barr requested comments from stakeholders on the draft report. After receiving comments from the RWMWD managers, municipalities, counties, state agencies, and the public, we will work with RWMWD staff to make changes and/or address comments, as appropriate. Staff will bring those comments to the board at the meeting for review and discussion on how to address them. Staff will also discuss a plan for public input moving forward.

Feasibility studies for the Owasso Basin bypass concept, Willow Creek flood reduction concept, and Ames Lake area concept (highlighted in the resiliency study report) are included in the 2020 work program and budget. In addition, the Keller channel control structure and the Phalen outlet modifications (mentioned in the resiliency study) are budgeted for design and implementation in 2020. These new project memos are included with this status report, and Barr will request authorization at the February board meeting to proceed with the studies.

#### **Twin Lake flood-risk mitigation feasibility study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to evaluate modifications that would reduce flood risk to habitable structures in the Twin Lake watershed in Little Canada and Vadnais Heights.*

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report February 2020  
**Date:** January 30, 2020

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Barr presented the Twin Lake flood-risk mitigation feasibility study at the December board meeting. A gravity outlet at elevation 872.2 was recommended as the most feasible flood-risk mitigation alternative evaluated. The recommended outlet includes a detailed operating plan describing when the valve associated with this outlet could be opened and when it should be closed. The recommended alternative is based on Twin Lake flood-risk mitigation objectives, as well as the assessment of downstream impacts, site and wetland impacts, and flexibility for long-term management.

At the December board meeting, the managers directed Barr to begin final design for modifying the outlet from Twin Lake, including development of a detailed operating plan, discussions with permitting agencies, and determination of the drainage and access easements necessary for the proposed modification.

This month, Barr continued working on the final design for an outlet from Twin Lake, and further evaluated the operation plan presented in the feasibility study. Barr and the RWMWD will meet with Mr. Frattalone (the property owner) on January 30 to discuss permitting requirements and easement acquisition. We will also meet with BP pipeline representatives on February 5 to complete a detailed locating of the petroleum pipeline. Updates on these meetings will be given at the board meeting.

Because reestablishing the outlet includes crossing the BP petroleum pipeline, the draft plans must be submitted to BP for design plan review. Barr anticipates providing draft plans in March, and submitting them to the Minnesota Department of Transportation (MnDOT) after easements have been acquired along the alignment of the proposed outlet. (One of the requirements for a MnDOT drainage permit is to show the location of a drainage easement between Twin Lake and the new outlet.)

**Federal Emergency Management Agency (FEMA) flood mapping updates (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to apply Minnesota DNR grant funding to use the RWMWD's updated stormwater model in order to develop information required to update the FEMA floodplain maps.*

We are still waiting for comments from the Minnesota DNR on the hydraulic model inputs. Barr provided responses to DNR comments and updated models on August 29. The resubmittal included updates to supporting documentation to address DNR comments, minor updates to the models, and plans or survey information for inundation areas shown on the FEMA floodplain maps. In addition, we submitted preliminary floodway models for Kohlman Creek and the Lake Wabasso outlet.

We are also still waiting for final DNR approval on hydraulic model input parameters. Because of the extended DNR comment period, the process for providing the DNR with information to update the floodplain maps was extended and will now continue through winter 2020. The DNR anticipates providing comments in spring or summer 2020. Work will continue after the DNR provides comments on the updated models.

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**Lowering of West Vadnais Lake outlet (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to provide final plans and specifications and the permitting required to lower the 15-inch outlet of West Vadnais Lake to an inlet elevation of 881.0.*

This period, Barr continued developing the design, plans, and specifications for lowering the West Vadnais Lake outlet. The construction cost associated with this effort is expected to be well below the \$175,000 threshold, making a formal public bidding process unnecessary. This approach will allow a contractor to start working sooner than a formal process would allow. Plans and technical specifications for the project are nearing completion.

On January 10, Barr hosted a stakeholder meeting to share how lowering the outlet would be facilitated, describe project benefits, and answer questions or concerns. Representatives from the Vadnais Lake Area Watershed Management Organization, City of Vadnais Heights, MnDOT, St. Paul Regional Water Service (SPRWS), Ramsey County Parks, Ramsey County Public Works, the Minnesota DNR, Barr, and the RWMWD attended the meeting; City of Little Canada staff were unable to attend, but were contacted individually at a later date. Stakeholders generally supported the project and did not raise any concerns about granting permit requests.

Several permits are required for the project. The status of each is described below.

- MnDOT access permit: submitted and waiting for response
- Little Canada right-of-way permit: drafted and expected to be sent within a week of this memo
- West Vadnais Lake outlet joint permit application (Wetland Conservation Act/U.S. Army Corps of Engineers): drafted and expected to be submitted within a week of this memo
- Minnesota DNR work in public waters permit: drafted and expected to be submitted within a week of this memo
- SPRWS access agreement: in process with the SPRWS

At the February meeting, Barr will share highlights from the presentation given at the January 10 meeting, including expected project benefits. In addition, as requested at the last meeting, staff will present their findings and recommendations regarding the temporary pumping of West Vadnais Lake for the board's information and discussion.

**Modeling of 500-year Atlas 14 district-wide (climate change scenario): flood map generation for future outreach efforts (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to use measured water-surface elevations to verify and fine-tune water surface elevations calculated by the RWMWD stormwater model. Following validation, the model will be used to simulate larger rainfall events, including the 500-year rainfall depth. The confidence limit (or uncertainty) associated with the 500-year flood elevation will be used to develop inundation maps that*

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*will allow for evaluation of how future climate change may affect flood inundation areas within the RWMWD, and will be used for discussion with stakeholders when evaluating future flood-risk reduction projects.*

Barr is revising the risk map figures to address RWMWD comments. We anticipate providing the final version of three sets of figures in January. One set illustrates the uncertainty in the 100-year floodplain, one illustrates annual flood risk, and one shows flood risk over a 30-year period. The maps will be used in community outreach activities with the cities and other entities in the RWMWD. Barr will provide final maps in February.

**Hillcrest Golf Course (multi-use) (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to identify and describe the existing land, water, and stormwater conditions throughout the former Hillcrest Golf Course site to help the City of Saint Paul create the Hillcrest master plan that embodies and integrates the RWMWD's approach to stormwater management and natural-resources protection and restoration practices. The plan will determine future land uses and a new street network for the 112-acre former golf course on Saint Paul's East Side. In July, the Saint Paul city council approved bonds for the Saint Paul Port Authority to purchase the site.*

This period, Barr finished evaluating existing conditions across the site, identifying significant trees and tree stands (burr oaks), and modeling runoff across the site through wetlands and offsite into Saint Paul and Maplewood storm-sewer systems. This and other existing information about the site, including permitting implications of proposed development changes, was described in a technical report to be used as a part of the city's planning process.

Work will continue into 2020, and depends on the project's evolution and the city's planning work and process.

## **Monitoring water quality/project monitoring**

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**Automated lake-monitoring systems (Barr project manager: Chris Bonick; RWMWD project manager: Eric Korte)**

*The purpose of this project is to install an automated system to monitor lake levels throughout the RWMWD and allow real-time transfer of data to the RWMWD's website for public consumption.*

Xcel Energy has informed the RWMWD that installation of power lines and electrical meters at the five stations will be completed by mid- to late February.

Barr has been programming, bench testing, and prepping the monitoring equipment as installation progresses. Each station will be ready as soon as Xcel Energy completes installation of the power lines and electrical meters.

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**Iron-aggregate pond application research project (Barr project manager: Tyler Olsen; RWMWD project manager: Eric Korte)**

*The purpose of this project is to provide monitoring and data evaluation support for the University of Minnesota's St. Anthony Falls Laboratory's research project at Shoreview Commons Pond (on the Shoreview city hall campus). The project involves evaluating the effectiveness of adding iron aggregate to pond sediments to control the internal load of phosphorus from rich pond sediments.*

This month, the St. Anthony Falls Laboratory submitted a draft interim report for the monitoring completed in 2019. This monitoring is an extension of the first year of the study, as iron aggregate was not applied in winter or summer 2019. The RWMWD and Barr reviewed the report. Monitoring results from 2019 showed moderate phosphorus concentrations in the Shoreview Commons Pond, and lower concentrations in 2019 than in 2018. In winter 2020, the City of Shoreview will continue to monitor ice thickness. When ice thickness is sufficient (approximately 1 foot), the city will spread iron filings on the pond using towable fertilizer spreaders pulled behind two utility vehicles. Ice thickness is currently 8 inches. Application of iron will most likely occur in February 2020.

## Capital improvements

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**Targeted retrofit projects (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits on previously identified commercial, school, and faith-based properties throughout the RWMWD.*

Barr is preparing construction documents for the Boys and Girls Club East St. Paul stormwater project, which involves retrofitting highly degraded asphalt parking to include 24 stalls of permeable pavers. The project also includes two native plant beds designed for pollinator benefit. We are finalizing construction documents for the Boys and Girls Club permeable pavement project. Upon the board's approval, the project will go out to bid, with construction set for summer 2020.

Barr and the RWMWD met with Target representatives on January 9 and discussed the conceptual designs at both retail store locations. We made revisions to the conceptual designs and recalculated the costs and benefits to reflect the changes. Barr will present the revised concepts and cost estimates to the board at its February meeting. We have begun developing construction drawings.

Barr is working with the City of Roseville to finalize construction documents for the St. Rose of Lima Church project. This area of Roseville experiences frequent flooding issues. The City of Roseville will be installing an underground system to help manage this problem. RWMWD will be removing over 13,000 square feet of asphalt and turning those areas into native planting beds. We will also be installing a rain garden to help capture and filter parking lot runoff. The church will be paying for the cost to repave the remaining portion of their parking lot. The RWMWD portion of the work is expected to be about \$260,000. This project will be bid jointly as one project lead by the City of Roseville with construction set for summer 2020.

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## CIP project repair and maintenance

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### **CIP maintenance/repairs 2020 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to maintain the existing systems and infrastructure owned and operated by the RWMWD and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their municipal separate storm-sewer system (MS4) requirements.*

A notice to proceed was issued to Fitzgerald Excavating & Trucking, Inc. on January 3. Work began the following week at the West Vadnais Lake area, followed by two pond cleanouts for the City of Shoreview. The contractor was eligible for partial payment for work completed through January 21, but chose to defer payment until March. Work is on track, with pond excavation sites a priority during the winter construction period.

### **Beltline/Battle Creek tunnel five-year inspection (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to maintain the existing Beltline and Battle Creek tunnel systems and infrastructure owned and operated by the RWMWD.*

The Barr team conducted a site reconnaissance to locate and uncover the various access points for the upcoming in-pipe inspections. We successfully located all primary locations beneath the snow and ice.

Ice columns have formed again from the Battle Creek overflow structures into the tunnel, posing a significant safety risk to workers; the ice restricts safe passage within the pipe and may fall or break loose. Consequently, survey and inspection must be postponed until spring, after snowmelt (around March or April) when conditions are similar to when inspection was successfully completed five years ago.

Both Beaver Lake and Lake Phalen are actively discharging into the Beltline system. While high relative to flows observed during the last inspection due to the active lake discharge, current flows in Mainline appear to be at their lowest rate since the start of January—0.795 to 0.830 feet deep at a rate of 15.8 cubic feet per second on January 24. Flows of this magnitude are manageable in the Mainline and upstream branches; however, they may provide inspection challenges in the Mississippi River branch with its smaller, circular pipe and uneven terrain.

We plan to continue inspections as planned, beginning in the upstream branches of the Beltline system (East Mechanic, Beaver Lake, and Lake Phalen), which will help us assess in-pipe flow conditions and hopefully give the weather time to reach colder, sustained temperatures that further reduce lake discharge and baseflows within the tunnel.

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## Natural Resources Update – Bill Bartodziej and Simba Blood

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### Project Updates on our Website

We are in the process of bringing up-to-date our active projects on the Watershed website. Our standard approach is to include summary text, example photos of the site and the restoration processes used, and appropriate links to any technical reports and videos. With a reduction of time spent in the field, winter really provides an excellent opportunity for us to get caught up on documenting and sharing project results. Below is an example update in *draft* form. The photos will be imbedded in the text once the update is formatted for the website.

### Wetland A Ecological Restoration - Progress Report

The Ramsey-Washington Metro Watershed District and Ramsey County have teamed up to restore about 60 acres of forest and 4,000 linear feet (4 acres) of wetland buffer habitat within Vadnais-Snail Lakes Regional Park. Located between Snail Lake and Grass Lake, the area supports one of the largest oak forest and associated wetland habitats in the region. However, over the last several years, it has been degraded by invasive plant species and erosion. With funding from a DNR Conservation Partners Legacy Grant, this multi-year project (2018-20) is designed to create more healthy and resilient forest and wetland ecosystems.

#### Fall-winter 2018

“Restoration in Progress” signs were installed around the wetland buffer areas. These signs provide a brief summary of the project and Watershed and Ramsey County website information. Initial site preparation included the removal of invasive and undesirable trees and herbaceous plants. This work was conducted by a private contractor and watershed natural resources staff. Target weed species included: buckthorn, honeysuckle, Canada thistle, reed canary grass, and motherwort. Many, many semi-truckloads of invasive woody plant material were removed from the site. In the classroom, Sage was very busy teaching local students about the Wetland-A restoration and the watershed.

#### Spring 2019

As the snow melted our NR staff were quick to begin work on the northern edge of Wetland A (green highlighted area on the map below). We enlisted the help of Ramsey County Correction’s work crews to remove additional cut woody debris. Once this debris was removed, invasive plants began emerging in bare soil areas. There seemed to be an enormous weed seed bank present. Because of this, we covered sections of the restoration area with shredded hardwood mulch to inhibit weed establishment. Mulch also has an added bonus of retaining moisture for the newly planted native seedlings. With the help of 350 local school students, Master Gardeners, and Master Water Stewards from around our District, we were able to install more than 4,000 native plants (over 50 wetland and prairie species) in the wetland buffer: <https://www.facebook.com/RWMWD/videos/1145930272258673/> A majority of these plants were grown at the Ramsey County Correction’s Greenhouse Facility.

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report February 2020  
**Date:** January 30, 2020

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### Summer 2019

Natural Resources staff and interns seeded roughly an acre of land in the upland and wet transitional area not included in the areas that were intensively planted. We used a seed drill on flat terrain and a handheld gas tiller on steeper sections. Prairie straw was then placed on top of the sown seed to prevent topsoil runoff during rainfall events.

Once all of the upland buffer areas were addressed, we began focusing on the establishment of emergent and wetland plant communities along the shoreline. We planted over 1,500 containers of bulrush, burreed, arrowhead, spikerush, sedges, and numerous wetland flower species along the shoreline. This will help to establish a robust native plant community that will look amazing, provide essential wetland habitat, and be resilient to flooding.

Because of the substantial weed seed bank present on site, maintenance is critical in order to have a successful ecological restoration. We routinely controlled invasive herbaceous and woody plant species by hand-pulling or flame-weeding. Weeding via a flame torch was used to eliminate young buckthorn without using herbicide; this also minimized soil disturbance.

The Natural Resources staff and interns, along with assistance from volunteers, were able to restore over 2,000 linear feet of shoreline along with nearly 1.5 acres of upland and wetland edge habitat. Staff will be monitoring and intensively maintaining this site over the long-term.

### Fall-winter 2019

Natural Resources staff began buckthorn clearing on the western side (blue buffer area on the map) in early fall. The Citizen Advisory Committee (CAC) got out in the field and helped to install more than 500 wetland shore plants on the west side of Wetland A. This was a really fun, educational, and very productive event for our dedicated citizen volunteers.

The private contractor continued buckthorn control efforts on the southern and southeastern sides of the wetland in November and December. We followed up by using a brush cutter to chop woody material along the water's edge. This will effectively clear the area for planting next summer.

In early winter, we were able to seed over 1,200' of buffer, including woodland, savanna, and wetland edge habitat. We purchased seed from a local supplier, and in addition, we field-collected pounds of seed from our restoration areas within the watershed. With our field collections, we target relatively rare and expensive seed. In the end, this improves the quality of our restorations and helps with the overall project budget.

### 2020

Staff looks forward to continuing the ecological restoration work on Wetland A. We will focus on intensive planting along the western and southern portions of this system. We will again have hundreds of students out on site as well as numerous citizen volunteer groups. You will also see our staff out on site monitoring the restoration and conducting all necessary weed control.



Photos



*Five restoration project signs are positioned around the wetland.*



*Piles of cut buckthorn wait to be hauled off site.*



*RWMWD staff and Ramsey County Corrections spread 8,000 ft<sup>2</sup> of mulch along the path surrounding Wetland A for installing native plant species*



*Students and teachers from schools within the district planting native species in mulched area*



*The chorus of the American toad was amazingly raucous during the spring planting.*



*RWMWD staff prepare soil for seeding with a gas tiller and hand tools*



*RWMWD staff using flame-weeders to eliminate buckthorn sprouting in newly exposed soil.*



*Newly-planted emergent species had a high survival rate.*



*Monarchs finding meadow blazing star on the north side of Wetland A.  
Pale purple coneflower is now a common prairie species in the northern buffer.*



*Volunteers from the Citizen Advisory Committee planting blue flag iris along the shore.*



*The green climber was used to cut and mulch dead tree and buckthorn branches. This opened up the shoreline for the wetland edge planting that will take place in summer 2020.*

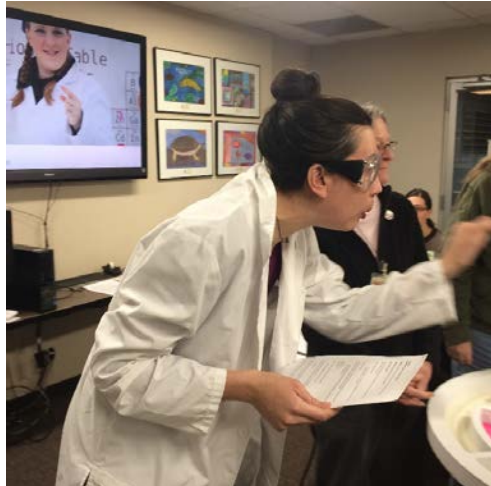


*Weed free prairie straw is used to cover the newly seeded buffer areas. Over 70 native plant species were introduced through the dormant seeding process in fall 2019.*

## Public Involvement and Education Program – Sage Passi

### Test-driving Aquanesia: Welcome to the year 2118, where the climate is hot, humid, and stormy...

Set 100 years in the future, *Aquanesia* is a location-based game and performance in which players test their skills at different watershed-based activities to decipher a set of clues, which will help them unlock the mystery of how and why people are losing their memories of the past century.



*Actor Elle Toni leads a practice session.*

The goal of *Aquanesia* is to create a fun-filled activity that gets people outside to play, learn and reconnect with their city and its watershed on foot or bicycle. During the process of solving the game, they will become familiar with specific aspects of the local environment as well as general principles about a watershed and clean water. The intended result of the game is that players are encouraged to become ever-better stewards of their watershed.

RWMWD educators Sage Passi, Cathy Troendle, and Anna Barker, several Watershed Partners and other community organizations participated in an orientation/simulation/input session about *Aquanesia* on January 8 hosted by the National Park Service. The game was developed by Northern Lights and launched in Rochester and Grand Rapids in 2018.

*Aquanesia's* predecessor was [Ruination: City of Dust](#), a multi-player, location-based, bicycle-powered game that Northern Lights created in 2014 in collaboration with the Minnehaha Creek Watershed District, game designer Ken Ecklund and with support from Minneapolis Parks and Recreation.

Participants explored elements of the game and some of its content and props. Northern Lights and a collaboration of potential partners will be exploring the possibility of sponsoring the game in 2021 in the Twin Cities.



*Rochester Aquanesia game in action*

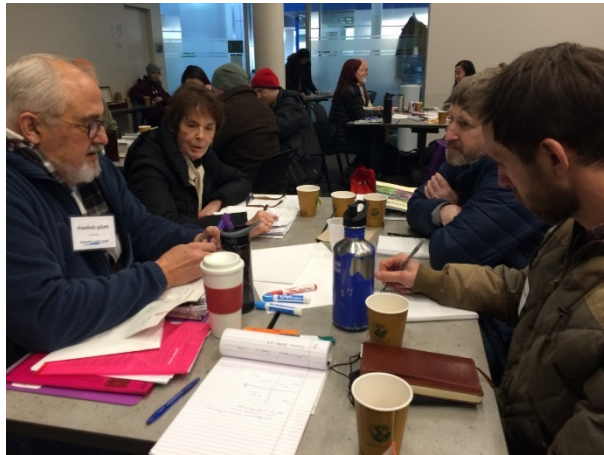
## Seniors Explore Watershed Issues through Osher Life-Long Learning Course “The State of Our Waters in the Land of Mostly Frozen 10,000+ Lakes”



Master Water Steward Anna Barker and Sage Passi are partnering in a five-week class series for seniors in January and February at the Wilder Center in St. Paul. The class filled right away with forty registrants. These educational sessions include content that helps participants 1) identify which watershed they live in; 2) connect with others in the class who live in their same watershed; 3) guide them to resources including those on the Watershed Partner’s Cleanwatermn.org website, including its sub-watershed mapping tool, the Adopt-A-Drain sign-up tool and stories of people in action; 4) connect them with their own watershed organization and provides learning materials ; and 5) and offers examples of ways citizens can volunteer on water issues. During the second class, Freshwater program coordinators Alex Van Loh and Kris Meyer provided an overview and hands-on activity about watershed concepts. Carrie Jennings, Freshwater Research and Policy Director, presented an excellent, hour-long slide show and lecture, *the State of Minnesota Waters*, that summarized the history of water in Minnesota, changes over time, impacts on water quality, best practices for water quality improvements, agricultural impacts, emerging concerns that are impacting both surface water and groundwater and other relevant topics.

This series is helping us develop a model for how to engage seniors to provide resources, engage and empower them to get involved in their own watersheds. It has opened doors to interfacing with senior residents from around the Twin Cities including participants who live in RWMWD’s Lake Phalen, Lake Gervais and Grass Lake sub-watersheds who want to network and learn more about water issues and engage in different types of watershed related projects. Marilyn, a course participant, is a St. Paul resident who lives on the west side of Lake Phalen, took the summer Ollie watershed class and went on the tour that Anna , Stephanie, and Sage offered in collaboration with Ramsey and Washington Master Gardener programs. Marilyn is now taking this second course along with her husband Larry. She scheduled a site visit in early February on their property to explore BMP project options because she visited Anna and Stephanie’s Master Water Steward rain garden capstone project installed in a Woodbury yard above Battle Creek that was on the summer Ollie tour. During the January 13th class, Marilyn signed up online to adopt a drain near her house which drains to Lake Phalen. This class is inspiring people to take action!

## 2020 Master Water Steward Teams Move Forward to Develop Capstones



*Left: Phil Gelbach and Lee Bauer (left side of the table), are two Master Water Stewards on our team who were discussing watershed issues with other Master Water Stewards at a recent class at the U of M Ewald Conference Center in St. Paul. Right: Samantha Radermacher, an RWMWD Master Water Steward drew a sketch of a sign that could be posted in residents' yards to encourage sustainable water and pollinator friendly practices.*

Our new Master Water Stewards have been taking classes since mid-October and are preparing to start developing and designing their capstone projects. Four out of the five new people on the team live in the city of Roseville and one new Master Water Steward resides in Shoreview. Phil Gelbach and Lee Bauer are part of a long-term group of 30-60 Roseville residents who live on or near Willow Pond in Roseville who periodically meet and stay in touch. Phil and Lee organized several meetings with Watershed staff over the past months to explore water quality and ecological issues on Willow Pond. They will continue to work with RWMWD staff to develop some action plans they can help support through their capstone projects. The full RWMWD team of about 21 Master Water Stewards gathered on Wednesday evening, January 29, for a potluck and meeting at Cedarholm Golf Course to get acquainted, celebrate accomplishments and brainstorm future collaborations and projects.

## Resident Lawn to Legume Grants – Trainings Coming Soon in our Watershed



*Congratulations to the City of Maplewood for Winning a Neighborhood Demonstration Grant for this program!*

We are excited to announce that the city of Maplewood was chosen as one of the fourteen Lawns to Legumes Neighborhood Demonstration grant recipients for the state of Minnesota. *Lawns to Legumes* is a new program that will help Minnesota residents plant native vegetation and pollinator friendly forbs



and legumes to protect a diversity of pollinators and restore habitat for the state’s endangered rusty patched bumblebee. We assisted the Maplewood Nature Center staff in the application process and are looking forward to partnering with them on their project training and implementation process.

Demonstration neighborhood projects are community projects that are intended to enhance pollinator habitat in key corridors, raise awareness for residential pollinator protection, and showcase best practices. Organizations overseeing a demonstration neighborhood will work with local residents to install four types of beneficial planting practices: native pocket plantings, pollinator beneficial trees and shrubs, pollinator lawns and pollinator meadows. Local governments, nonprofit organizations, and tribal governments were invited to apply through a Request for Proposals (RFP) process this winter.



RWMWD is also preparing to schedule *Lawns to Legumes* orientation sessions for residents in cities throughout our Watershed District for anyone who wants to apply for the individual residential \$350 grants. The first deadline for those grants is February 28. There will be a second round of applications that will be accepted beginning March 1. For more information and access to the application go to <https://bluethumb.org/lawns-to-legumes/>.

We plan to offer workshops in multiple cities throughout our watershed district and will offer specialized training for Master Gardeners, Master Water Stewards and Master Water Stewards to provide design and implementation support for residents who receive these grants. These trainings will be staggered through the rest of the winter and spring. Currently there is one Blue Thumb Lawns to Legumes training scheduled for April 7 in Woodbury cosponsored with EMWREP with another to be scheduled in North St. Paul.

**Phalen Freeze Fest – Saturday February 29, 1 PM – 4 PM at Lake Phalen**

Sage recruited Johnson Junior ROTC youth to help at this event with set-up, clean-up and other activities. She will be reaching out to Harding Junior ROTC to get assistance with RWMWD’s table and activities and hopes to have CAC and Master Water Steward involvement in the event as well. We welcome everyone to join us at this event on Saturday, February 29, from 1-4 PM at Lake Phalen. Offsite parking is recommended as the parking lots adjacent to the boathouse will not be open due to construction. Shuttles will be available from the Phalen Recreation Center parking lot on Wheelock Parkway.

\* \* \* \* \*

# Informational Items

\* \* \* \* \*

# 2019 EXECUTIVE SUMMARY

## PUBLIC EDUCATION AND ENGAGEMENT

PUBLIC EDUCATION				
4600 face-to-face interactions with the public at workshops and events				
17 Community Events	15 Workshops	12 Presentations	8 Classes for Water Stewards	3 Clean-Up Events
52 weekly articles in local newspapers: <a href="http://www.eastmetrowater.org">www.eastmetrowater.org</a>				



<b>VOLUNTEER ENGAGEMENT</b>	
<b>Master Water Stewards</b>	
13 trained in 2019 (20 total)	
50-hours of training + capstone project + 25-50 hours of volunteer support	
Organize raingarden clean-up events Join watershed district CACs Promote Adopt-a-Drain Promote BMP programs	Attend community events Remove invasive species Plant native gardens and raingardens Grow trees for community plantings
<b>Adopt a Drain</b>	
285 drains adopted in <u>Washington County</u> since April 9981 drains adopted in the Twin Cities	
A partnership with Hamline University and Watershed Partners	
Residents help to prevent stormwater pollution by cleaning leaves, litter and sediment away from storm drains near their homes	
<b>Adopt a Raingarden</b>	
55 raingardens adopted in Stillwater and Oak Park Heights	
Master Water Stewards Stephanie Wang and Anna Barker used the model to organize two raingarden clean-up events in Woodbury	
100 volunteers engaged at clean-up events in Stillwater and Woodbury	
<b>AIS Detectors</b>	
4 trained in 2019 (14 total)	
8 hours of training + 25 hours of volunteer support	



## YOUTH EDUCATION

**30 groundwater/watershed lessons** taught to 4<sup>th</sup> grade students

5 Forest Lake Elementary	5 Lake Elmo Elementary	2 Newport Elementary	7 Oneka (Hugo)
4 Royal Oaks (Woodbury)		5 St. Peter's (North St. Paul)	2 Wyoming Elementary
<b>Campus Greening:</b> Valley Crossing (Woodbury) + Crestview (Cottage Grove)			
8 outdoor family nature events; 4 informal youth programs; St. Croix Summit			
<b>Teacher Workshop</b> in Oakdale (Aug. 6)			



## OUTREACH SUPPORT FOR PARTNER PROJECTS AND PROGRAMS

BMP & COST-SHARE PROGRAMS			
<b>6 Blue Thumb Workshops</b>			
Wyoming – Hugo – Scandia – Oakdale - Lake Elmo - Cottage Grove			
<b>154</b> Workshop Attendees	<b>193</b> Site Visits by WCD staff	<b>116 lbs TP</b> Total Phosphorus Reduction	<b>29,793 lbs TSS</b> Total Suspended Solids Reduction
Downloadable calendar for Outlook and Google <a href="http://www.mnwcd.org/maintenance-guide">www.mnwcd.org/maintenance-guide</a>			
BMP maintenance guidance – print materials <a href="http://www.mnwcd.org/adoptaraingarden">www.mnwcd.org/adoptaraingarden</a>			



### Wiessner Property



In 2013, the Washington Conservation District worked with landowner Grant Wiessner to install a sediment basin and stabilize a gully on his property in Afton, which drains to Kelle's Creek.

The sediment basin treats runoff from 11 acres of land and reduces the amount of phosphorus flowing to Kelle's Creek and the St. Croix River by 42.5 pounds per year.

In 2016 and 2019, Grant Wiessner worked with the WCD again to install a grade control structure and repair two additional gullies on his property. The 2016 project reduces phosphorus going to Kelle's Creek by 21 pounds per year, and the 2019 project reduces phosphorus loading by another 30 pounds.

All three projects address major erosion issues that were causing trees to topple and sending large amounts of sediment downstream.

Partners and grants include: Clean Water Fund, Valley Branch Watershed District, St. Croix River Association, MPCA 319.

The steep topography in Afton can make erosion control difficult.

#### Conservation Benefits

<p><b>Habitat</b></p> <p>Previously, major erosion was causing trees to topple. Now vegetation has been re-established on steep slopes.</p>	<p><b>Clean Water</b></p> <p>Benefit = Keeping 93lb of phosphorus out of Kelle's Creek every year. The creek flows through downtown Afton to the St. Croix River.</p>
<p><b>Erosion Control</b></p> <p>Three major gullies stabilized to prevent further erosion.</p>	<p><b>Civic Engagement</b></p> <p>This is a voluntary project on private land and demonstrates successful civic engagement.</p>

**OUTREACH & AUDIENCE RESEARCH:  
AGRICULTURAL LANDOWNERS**

<b>12</b> Interviews	<b>387</b> Survey Responses	<b>95</b> Workshop Participants
<b>“One Watershed, One Plan” Listening Session</b> Feb. 2, Scandia (45 attendees)		
<b>Oriental bittersweet</b> Oct. 10, Oakdale (10 attendees)		
<b>Perennial Crops, Conservation Grazing and Conservation Planning</b> Oct. 22, Scandia (30 attendees)		
<b>Large acreage restoration</b> Nov. 4, Stillwater (10 attendees)		
<i>What do they want to do?</i>		
<p><b>soil health</b> conservation easements <b>physical projects</b></p> <p><b>cover crops</b> convert cropland to natural areas</p> <p><b>repair gullies and ravines</b> conservation plans</p> <p>transition cropland to hay or grazing install monitoring equipment in fields</p> <p>try new perennial crops MN Ag Water Quality Certification</p>		



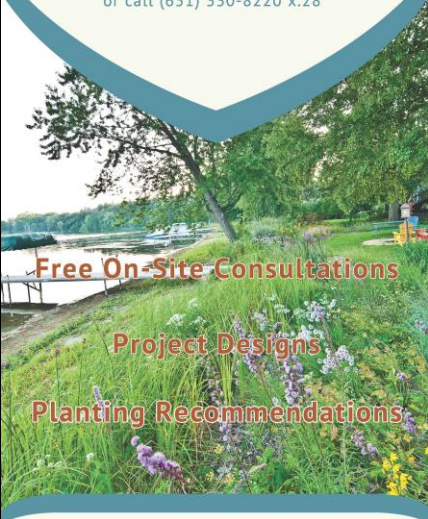
## EDUCATION SUPPORT FOR PARTNER PROJECTS

Comfort Lake – Forest Lake WD Community Survey	South Washington Trout Brook Project Signs	Washington CD Board Tour	Valley Branch WD 50 <sup>th</sup> Anniversary
Brown’s Creek WD Community Event	Woodbury Wetland Outreach	Forest Lake Shoreline Outreach	County Groundwater Education

### Incentive grants for lake friendly landscaping

Frustrated by shoreline erosion?

Beautify your property, create habitat, and help protect Forest Lake. To schedule a free site visit, email [tkline@mncwd.org](mailto:tkline@mncwd.org) or call (651) 330-8220 x.28



Free On-Site Consultations

Project Designs

Planting Recommendations

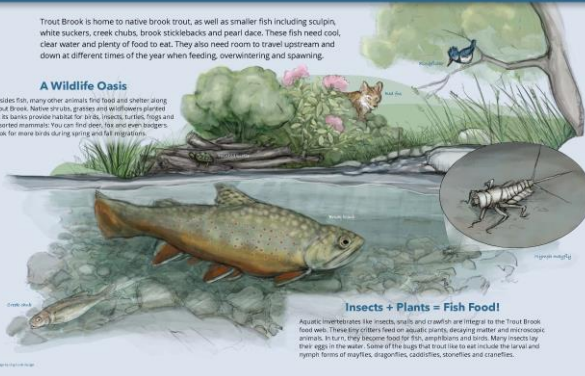
*In partnership with the  
Comfort Lake - Forest Lake Watershed District*

### Here Fishy Fishy!

Trout Brook is home to native brook trout, as well as smaller fish including sculpin, white suckers, creek chubs, brook sticklebacks and gizzard shad. These fish need cool, clear water and plenty of food to eat. They also need room to travel upstream and down at different times of the year when feeding, overwintering and spawning.

#### A Wildlife Oasis

Birds, fish, and other animals find food and shelter along Trout Brook. Native plants, grasses, and wildflower prairies on its banks provide habitat for birds, insects, turtles, frogs and assorted mammals. You can find deer, fox and even bobcats. Look for more birds during spring and fall migrations.



#### Insects + Plants = Fish Food!

Aquatic invertebrates like insects, snails, and crayfish are vital to the Trout Brook food web. These living critters feed on aquatic plants, decaying matter, and microalgae. Insects like a Frog Larvae feed on fish, amphibians and birds. Many insects lay their eggs in the water. Some of the bugs that trout like to eat include the larval and nymph forms of mayflies, dragonflies, caddisflies, stoneflies and chironomids.





**PROFESSIONAL TRAININGS FOR BUSINESS AND LOCAL GOVERNMENT**

EMWREP provides professional training for businesses and local government through Stormwater U, NEMO, and partnerships with MN Extension, U of MN Erosion and Stormwater Management Program, MN Erosion Control Association (MECA), Fortin Consulting, St. Croix River Association, and MN Department of Natural Resources (DNR).

<b>PROFESSIONAL TRAININGS</b>
<b>4 SMART salting workshops</b>
Targeted outreach to contractors and businesses <b>Cottage Grove - Forest Lake – Hugo – Oakdale - Stillwater – Woodbury</b> Via direct mail, email, and in-person visits
<b>Presentations</b> Minnesota Cities Stormwater Coalition (April 10) Water Summit (May 9) EWRI Conference (Aug. 6) St. Croix Research Rendezvous (Oct. 22) Washington County Water Consortium (Sept. 4 and Dec. 4)
Coordination of monthly <b>Watershed Partners</b> meetings and workshops Planning support for <b>Washington County Water Consortium</b>



*we are*  
**SALT SMART**

We are using less salt this winter to protect clean water



**Did you know?**  
Everything that goes down a storm drain ends up in a nearby lake, creek, or wetland. That includes salt and salty melted ice and snow, which pollute clean water.

**Help us!**  
Do your part to protect clean water:

- Walk slowly
- Wear sturdy shoes
- Use less salt at home



## **NEW MATERIALS AND RESOURCES**

In 2019, EMWREP developed dozens of new education materials for the Minnesota MS4 Toolkit, through a contract partnership with the Minnesota Pollution Control Agency.

Completed resources can be accessed online at the [MPCA Stormwater Wiki](#). We will continue to add new resources to the toolkit in 2020.

Please refer to the [full report](#) for example images and materials lists.

# Metro Watershed Partners 2019 Annual Program Report



**Metro Watershed Partners** is a coalition of more than seventy public, private and non-profit organizations in the Twin Cities metro area. Through collaborative education and outreach, the Metro Watershed Partners promote a public understanding that inspires people to act to protect water in their watershed. Since 1996, partners have cooperated through educational projects, networking, and resource sharing.



MINNESOTA WATER  
LET'S KEEP IT CLEAN

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# Metro Watershed Partners 2019 Report

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## Introduction

**Metro Watershed Partners** is a coalition of more than seventy public, private and non-profit organizations in the Twin Cities metro area. Through collaborative education and outreach, the Metro Watershed Partners promote a public understanding that inspires people to act to protect water in their watershed. Since 1996, partners have cooperated through educational projects, networking, and resource sharing.



WATERSHED  
PARTNERS

The mission of the Metro Watershed Partners is two-fold:

- to provide and promote collaborative watershed education programs with consistent messages to the general public, local government staff and elected officials, and
- to provide WSP members a place and means to share information, generate ideas, and coordinate and support collaborative watershed education programs.

In 2019 members contributed \$40,337.51 to support monthly meetings, exhibit checkout, administrative functions, and state fair outreach to hundreds of thousands of people. Members contributed \$136,612.49 to support Adopt-a-Drain and the Clean Water Minnesota outreach campaign.

## Leadership

The work of **Metro Watershed Partners** is guided by a steering committee that includes stormwater education professionals from watershed organizations, non-profits and government agencies. In 2019, our steering committee members were:

Angie Hong, Washington Conservation District

Chakong Thao, Minnesota Pollution Control Agency

Christina Schmitt, Hennepin County Environment and Energy

Deirdre Coleman, Freshwater Society

Jen Dullum, Vermillion River Watershed JPO (*convenor*)

Lyndon Torstenson, National Park Service, Mississippi National River & Recreation Area

Rebecca Haug, City of Blaine

Tracy Fredin, Center for Global Environmental Education, Hamline University

# Clean Water MN

## 2019 Outreach Projects Report



**Clean Water MN** is the collaborative outreach project of the Metro Watershed Partners. Working together, we provide resources, training, and support to partners as they work to inspire homeowners in the Twin Cities metro area to keep water clean and healthy.



The steering committee of the Metro Watershed Partners oversees the work of Clean Water MN. Jana Larson from Hamline University manages campaign fundraising and the creation and implementation of communication and outreach programs. As part of this work, we regularly ask stakeholders to tell us how to best serve the needs of MS4s.

**Cleanwatermn.org** features seasonally appropriate stories about metro area residents taking action at home and in their lives to keep Minnesota water clean and healthy. The stories are designed for partners to use in their own communications—via websites, Facebook, Twitter, newsletters, and such.

Along with each story we create a suite of professional photographs, accessible to partners online for use in their own stories and publications. Additionally, each story links to informational resources on our own site and other websites. In 2019 we published 12 new stories.

The [cleanwatermn.org](http://cleanwatermn.org) website also features informational pages, calls to action, a “Find My Watershed” map, information about the partnership, educational resources, and a list of our partners. We will continue to develop and add content to the site in 2020 and beyond.



## Campaign Analytics

In order to provide some measure of the impact of our work, we have created a system of unique, trackable links for our partners to use when they publish a story from Clean Water MN. This allows us to measure click-through rates to CleanWaterMN.org for each partner individually. Below you will find a summary of these analytics, which paint a general picture of engagement with each story. These numbers do not reflect, however, the total number of readers for any given story, since trackable links are not always used, and some readers may not click on the link to read the full story. Analytics reports with a breakdown for each partner can be found at: <http://bit.ly/2rxvGE6>

Month	Blog Title	Total sessions	New users	Average duration
January	GreenCorps Fight to Keep Salt Out of Minnesota Lakes	350	292	0:00:52
February	Bloomington Public Schools Improve Safety and their Bottom Line with Anti-icing Strategies	700	641	0:00:43
March	Announcing the Nation's Largest Adopt-a-Drain Program	274	227	0:01:12
April	Transform Your Yard into a Monarch Oasis	671	581	0:00:38
May	Bee-friendly Yard Becomes Neighborhood Sanctuary	342	247	0:00:56
June	Paddling to Protect the Mississippi	193	146	0:00:34
July	Smart Irrigation Reduces Water Waste	128	99	0:00:16
August	Blaine's Wetland Restoration Revives Endangered Species	1,252	1,038	0:03:22
September	Fighting to Understand Bees in Decline	1,508	1,254	0:02:04
October	Brooklyn Park Wetland Preservation Fosters Community	1,334	1,124	0:01:51
November	Cleaning the Streets Before the Snow Flies	1,229	1,082	0:02:23
December	A Song to Sweep to from Frassati Academy	1,120	929	0:02:13
Total click-throughs to CWMN site		9,101	7,660	

## Clean Water MN News and Accomplishments in 2019:

As promised, **Adopt-a-Drain** launched a new website at [adopt-a-drain.org](http://adopt-a-drain.org) and the program became available to all residents in the metro area in March.

[About Adopt-a-Drain](#) | [How To Clear a Drain](#) | [Why Adopt a Drain](#) | [Prevent Runoff Pollution](#)

[Sign up](#) | [Log in](#)



### We protect our water

Sweep up! Rake up! Pick up!

[Adopt a Drain](#)



The program launch resulted in **good press coverage** for Adopt-a-Drain, including stories in the Saint Paul Pioneer Press, on Kare 11 evening news, Minnesota Public Radio (spring and fall stories), and in several local papers. During the State Fair, the Adopt-a-Drain booth was featured live on Fox 9.

We're making a difference! Join us!

160,741 lbs\*  
debris collected

10,000  
drains adopted

5,817  
adopters

Program membership almost tripled in the first year to nearly 6,000 participants, and in early January of 2020 we hit a major milestone: **10,000 storm drains are now adopted in the metro area!**



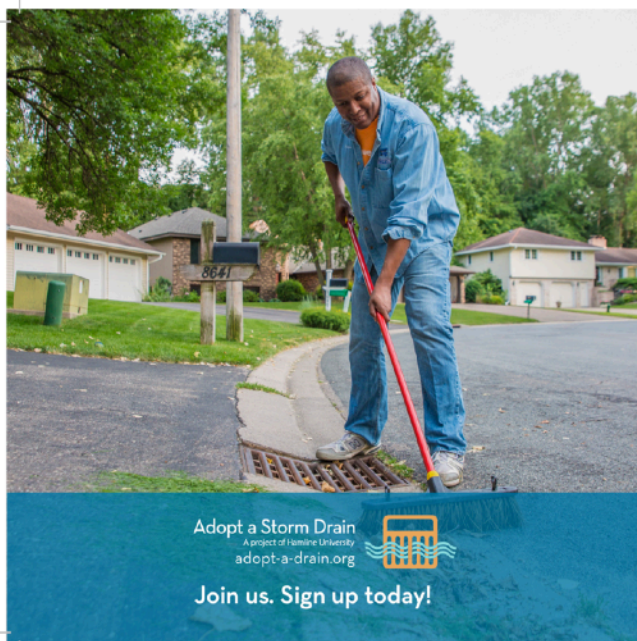
Throughout the year, Adopt-a-Drain participants were encouraged to report their work online via a monthly email newsletter. In early January, we sent a postcard to all participants who had not yet reported, and received an additional 500 responses. As a result of this outreach, the reporting rate increased from 30% to 40%.

Adopt-a-Drain staff have the opportunity to communicate directly with participants of the program, communicating with an average of 5-20 participants per week, to answer questions about stormwater issues and connect them with resources in their community.

The **Adopt-a-Drain program launched in Rochester** in the summer, where it also received news coverage in the newspaper and on TV. Since July, 127 Rochester residents have adopted 210 storm drains.

In Spring of 2020, Adopt-a-Drain will launch in Saint Cloud.

**Customizable print and electronic resources for promoting Adopt-a-Drain** and Community Cleanups were created in multiple formats and made available for download to partners on the "For Partners" page of [CleanWaterMN.org](http://CleanWaterMN.org). These resources include: direct mail postcards, utility bill inserts, door hangers, promotional flyers, billboards, and images with logos for posting to social media.



### How to adopt a storm drain

- 1 Sign up—**  
Sign up online to adopt a storm drain in your neighborhood. 
- 2 Keep your storm drain clear—**  
Sweep leaves, trash and other debris off the drain surface year round. 
- 3 Track your impact—**  
Enter the estimated total of debris you collect into your online account so we can track results. 
- 4 Lead by example—**  
Let others know about your commitment and tell them how they can help prevent water pollution. 

We continued to work with **researchers at the University of Minnesota's Center for Changing Landscapes on an in-depth baseline study of Adopt-a-Drain in Minneapolis** focused on understanding how to promote and implement Adopt-a-Drain so that it resonates with underserved communities. This research also includes the evaluation of a pilot program for businesses and community organizations. This multi-faceted evaluation project, funded by the City of Minneapolis, will wrap up in April 2020. A presentation of study findings will be given at an upcoming Watershed Partners meeting.

## Adopt-a-Drain on Facebook, Twitter and Instagram

In August we launched Adopt-a-Drain pages on Facebook, Twitter and Instagram and have been posting new content to almost every day. From August to December, the Facebook page gained more than 300 followers.

Over this five month period, there were more than 5,000 engagements on our Facebook posts, including likes, shares and comments. Our posts reached a total of 59,744 people, mostly through organic reach, including shares by our partners.



**Follow us! Like us! Share our posts!**

<https://www.facebook.com/AdoptaDrainMN/>  
<https://www.instagram.com/adoptadrain/>  
<https://twitter.com/adoptadrainmn>



## **Watershed Partners listserv**

The Metro Watershed Partners listserv is a forum for watershed educators, legislators and industry professionals throughout the state to share information and resources.

In 2019, the listserv moved to Mobilize, an online interactive communications platform for discussions, chat, events, files, and networking that is accessible online, via email, or mobile app.

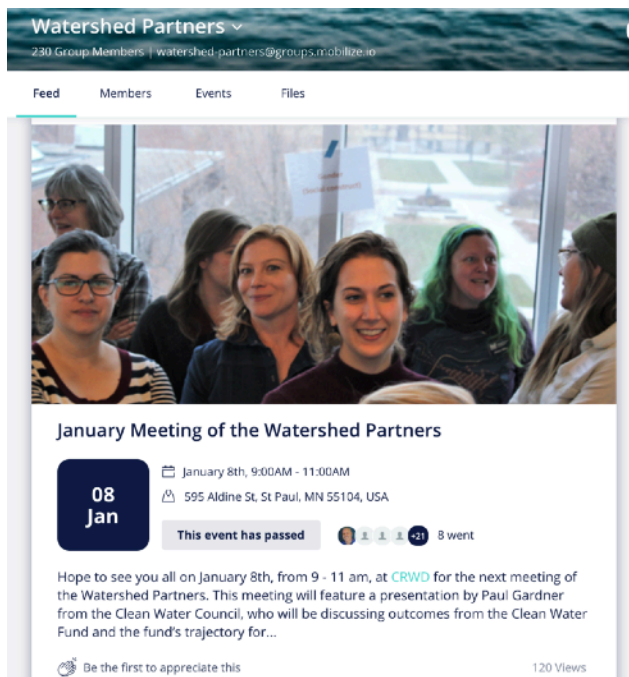
The listserv is now hosted at:  
<https://watershedpartners.mobilize.io>

Messages can be posted online to a feed or sent via email:  
[watershed-partners@groups.mobilize.io](mailto:watershed-partners@groups.mobilize.io)

There is a connected subgroup of the listserv for Adopt-a-Drain administrators from member cities and watershed districts to share information and resources at:  
[adopt-a-drain-user-group@groups.mobilize.io](mailto:adopt-a-drain-user-group@groups.mobilize.io)

These are private forums and anyone who would like to be added to either Mobilize group must send an email request to [jl Larson25@hamline.edu](mailto:jl Larson25@hamline.edu)

In 2019, the Metro Watershed Partners listserv continued to provide more than two hundred user-members with an effective tool to promote educational programs, share information about professional programs, and exchange information with other watershed educators, legislators and businesses.



## 2019 Accomplishments of the Metro Watershed Partners

### Networking and Sharing Resources

The Watershed Partners hold monthly meetings that provide members a way to gather, share information, generate ideas, and form partnerships that support watershed education in the state of Minnesota. These meetings keep our members up to date on new developments in the field of water resources and water education by featuring presentations by experts in fields such as watershed management, education, marketing, legislation and outreach.

In 2019, the Watershed Partners held 11 meetings. An average of 35 - 40 partners attended each meeting; more than 50 attended our June field trip to Minnehaha Falls and 70 came to the November roundtable. We're pleased to see that partners continue to value our meetings, and demonstrate energy for collaboration and information sharing; we plan to continue offering workshops and events our partners will find useful in 2020 and beyond.

### 2019 PARTNER MEETINGS — TOPICS AND PRESENTERS

January	The Visionary RiverFirst Initiative	Tom Evers, Minneapolis Parks Foundation
February	Integrating Pollinator Protection into Clean Water and Habitat Projects	Brianna Gohde, Ramsey County Master Gardener, Dan Shaw, Senior Ecologist and Vegetation Specialist with the Minnesota Board of Water and Soil Resources, Tara Kelly, Washington Conservation District
March	Legislative Update	Steve Woods of Freshwater
April	Community-centered urban water planning	Mae Davenport, U of M Center for Changing Landscapes
May	Moving Communities to Action	Patience Caso, Hennepin County
June	Planning for climate resiliency	Adam R. Arvidson, Minneapolis Park and Recreation Board, Lisa Goddard, City of Minneapolis, Tiffany Schaufler, Minnehaha Creek Watershed District
August	Tour of Blaine Wetland Restoration Project	Jason Husveth, Critical Connections Ecological Services and Rebecca Haug, City of Blaine
September	Proposed MS4 Permit Requirements & Water Story Circle Presentation	Chakong Thao and Samantha Connolly from MPCA & Shanai Matteson from Water Bar and Kris Meyer from Freshwater
October	The Ongoing Intensification of the Metro Area Hydroclimate	Kenny Blumenfeld, Minnesota State Climatology Office
November	Building an Inclusive Education Program for Your Organization and Community	Arnoldo Curiel of Dakota County, Yordi Solomone of Metro Blooms, Marcy Syman of Metropolitan Council
December	Water Story Circle	Shanai Matteson, Water Bar, Yordi Solomone, Metro Blooms, Lilah White, Metro Blooms, Jewell Arcoren, Healing Place Collaborative, and Angelo Williamson

## **Education and Outreach at the Minnesota State Fair**

2019 was another record year for the state fair, with total attendance breaking 2.1 million visitors. The Watershed Partners hosted an exhibit in the Eco-experience where approximately 267,000 people were exposed to our message about taking action to protect Minnesota's lakes and rivers.



The Metro Watershed Partners partnered with Hamline University to host the Adopt-a-Drain photo booth and exhibit at Eco Experience. The exhibit features: an Adopt-a-Drain photo booth, air hockey, foosball, an Adopt-a-Drain sign-up station, a video table with in-depth interactive information about the Mississippi River, and three portable tabletop exhibits focused on the science of Eutrophication, taking action to reduce run-off, and the urban water cycle. Together, these exhibits raise awareness about the importance of protecting water in Minnesota and ask people to commit to take action at home to prevent run-off pollution. For the first time this year, the exhibit provided a chance for visitors to formalize their commitment by signing up to adopt a drain.



There were more than 267,000 visitors to the Eco-experience in 2019. Approximately 8,700 of them took a photo in the Adopt-a-Drain photo booth. (We took and printed 3,519 photos during the fair, with an average of 2.5 people per photo.) 50% of photos were shared via email or text.

Over the twelve days of the fair, 731 Minnesota residents from 70 cities signed up to adopt a storm drain. Those who adopted a drain were able to take home an informational packet and a small yard sign that reads “We Protect Minnesota Lakes, Rivers and Wetlands.”

In addition to staff hired by Hamline, there was a Watershed Partner or Master Water Steward present during 76 of the 144 hours of the fair, to interact with the public, answer questions, and promote water-friendly behaviors.

Thank you for all your help making the exhibit a success!



## **Education and Outreach at Community Events:**

Throughout the year, the Metro Watershed Partners make our tabletop exhibits available free of charge to organizations doing education and outreach on non-point source pollution and preservation of clean water. If you are interested in checking out one of our kiosks or table-top exhibits (see below) for an event in your community, you can find more information and a check-out form at: <https://www.cleanwatermn.org/resources-for-partners/exhibit-check-out/>



Exhibit-in-a-Box on Eutrophication.

## 2019 Financial Report

In response to our fundraising requests, 52 supporting members contributed: \$40,337.51 to the Watershed Partners in support of meetings, state fair outreach, administration, exhibit maintenance, development and checkout; and \$136,612.49 to support Adopt-a-Drain, the Clean Water MN website and public outreach campaign.

### Supporting Members of the Metro Watershed Partners, Adopt-a-Drain, and the Clean Water MN Media Campaign in 2019

Andover	Minnehaha Creek WD
Bassett Creek WMC	Minnetonka
Blaine	Mississippi NRRRA
Bloomington	Mound
Brown's Creek WD	New Brighton
Cannon River WP	Nine Mile Creek WD
Capitol Region Watershed District	Pioneer-Sarah Creek WC
Carver County	Prior Lake
Circle Pines	Ramsey-Washington Metro WD
Columbia Heights	Rice Creek WD
Comfort Lake-Forest Lake WD	Richfield
Crystal	Riley Purgatory Bluff Creek WD
East Metro Water Resources	Rochester
Eden Prairie	Roseville
Edina	Saint Louis Park
Elm Creek WMC	Saint Paul
Excelsior	Shingle Creek WMC
Faribault	Shoreview
Fridley	South Washington WD
Hastings	Vadnais Lake Area WMO
Hennepin County	Vermillion River Watershed JPO
Hopkins	Washington Conservation District
Lauderdale	Wayzata
Lower Mississippi River WMO	West Mississippi WMC
Middle St. Croix WMO	White Bear Lake
Minneapolis	Woodbury



## Clean Water MN/Watershed Partners 2019 Financial Report

	IN-KIND	CASH	TOTAL
<b>REVENUE</b>			
CWMN funds rollover		\$2,236.68	\$2,236.68
Watershed Partners coordination	\$53,800.00	\$35,390.00	\$89,190.00
Watershed Partners exhibit	\$22,000.00		\$22,000.00
Media campaign	\$5,500.00	\$141,560.00	\$147,060.00
<b>Total revenue</b>	<b>\$81,300.00</b>	<b>\$179,186.68</b>	<b>\$260,486.68</b>
<b>EXPENSE</b>			
<b>1. Watershed Partners Coordination</b>			
Principle Investigator	\$2,500.00	\$4,500.00	\$7,000.00
Program Coordinator	\$12,000.00	\$12,000.00	\$24,000.00
Steering Committee	\$32,400.00		\$32,400.00
Meeting room rental fees	\$4,500.00		\$4,500.00
Technology maintenance	\$1,829.31	\$570.69	\$2,400.00
Meeting expenses		\$814.69	\$814.69
Postage and printing		\$30.24	\$30.24
Subtotal	<b>\$53,229.31</b>	<b>\$17,915.62</b>	<b>\$71,144.93</b>
<b>2. Watershed Exhibit Implementation</b>			
Exhibit coordination	\$4,500.00	\$5,500.00	\$10,000.00
State fair expenses		\$16,921.89	\$16,921.89
Storage and check-out	\$5,000.00		\$5,000.00
Subtotal	<b>\$9,500.00</b>	<b>\$22,421.89</b>	<b>\$31,921.89</b>
<b>3. Clean Water MN</b>			
Campaign coordination	\$5,500.00	\$20,000.00	\$25,500.00
Printing and postage		\$213.69	\$213.69
Blog writing and photography		\$9,550.00	\$9,550.00
Web hosting and maintenance		\$1,680.38	\$1,680.38
Graphic design		\$4,560.00	\$4,560.00
Focus group research		\$0.00	\$0.00
Meeting expenses		\$332.82	\$332.82
Cleanup kit resources			\$0.00
Subtotal	<b>\$5,500.00</b>	<b>\$36,336.89</b>	<b>\$41,836.89</b>
<b>4. Adopt-a-Drain</b>			
Site license		\$30,000.00	\$30,000.00
Program coordination		\$20,000.00	\$20,000.00
Program implementaion		\$16,158.00	\$16,158.00
Social media and communications		\$14,451.43	\$14,451.43
End of year mailing		\$3,890.00	\$3,890.00
Subtotal	<b>\$0.00</b>	<b>\$84,499.43</b>	<b>\$84,499.43</b>
<b>TOTAL</b>	<b>\$68,229.31</b>	<b>\$161,173.83</b>	<b>\$229,403.14</b>
<b>ADMINISTRATION FEE</b>		\$12,893.91	\$12,893.91
<b>TOTAL</b>	<b>\$68,229.31</b>	<b>\$174,067.74</b>	<b>\$242,297.05</b>
ROLLOVER TO 2020		\$5,118.94	

## Clean Water MN/Watershed Partners 2020 Budget

	IN-KIND	CASH	TOTAL
<b>REVENUE</b>			
CWMN funds rollover		\$5,118.94	
Watershed Partners coordination	\$53,800.00	\$23,993.00	\$77,793.00
Watershed Partners exhibit	\$22,000.00	\$20,321.00	\$42,321.00
Media campaign	\$5,500.00	\$41,273.00	\$46,773.00
Adopt-a-Drain		\$101,318.06	
<b>Total revenue</b>	<b>\$81,300.00</b>	<b>\$192,024.00</b>	<b>\$166,887.00</b>
<b>EXPENSE</b>			
<b>1. Watershed Partners Coordination</b>			
Principle Investigator	\$2,500.00	\$6,000.00	\$8,500.00
Program Coordinator	\$12,000.00	\$13,000.00	\$25,000.00
Steering Committee	\$32,400.00		\$32,400.00
Meeting room rental fees	\$4,500.00	\$1,200.00	\$5,700.00
Technology maintenance	\$1,400.00	\$1,000.00	\$2,400.00
Meeting expenses		\$2,000.00	\$2,000.00
Postage and printing		\$200.00	\$200.00
Subtotal	\$52,800.00	\$23,400.00	\$76,200.00
<b>2. Watershed Exhibit Implementation</b>			
Exhibit coordination	\$4,500.00	\$5,000.00	\$9,500.00
State fair expenses		\$15,000.00	\$15,000.00
Storage and check-out	\$5,000.00		\$5,000.00
Subtotal	\$9,500.00	\$20,000.00	\$29,500.00
<b>3. Clean Water MN</b>			
Campaign coordination	\$5,500.00	\$22,000.00	\$27,500.00
Printing and postage		\$400.00	\$400.00
Blog writing and photography		\$4,000.00	\$4,000.00
Web hosting and maintenance		\$2,000.00	\$2,000.00
Graphic design and video production		\$10,000.00	\$10,000.00
Focus group research			\$0.00
Meeting expenses		\$1,000.00	\$1,000.00
Cleanup kit resources			\$0.00
Subtotal	\$5,500.00	\$39,400.00	\$44,900.00
<b>4. Adopt-a-Drain</b>			
Site license		\$30,000.00	\$30,000.00
Program coordination		\$25,000.00	\$25,000.00
Program implementaion		\$14,000.00	\$14,000.00
Social media and communications		\$20,000.00	\$20,000.00
End of year mailing		\$6,000.00	\$6,000.00
Subtotal	\$0.00	\$95,000.00	\$95,000.00
<b>TOTAL</b>	<b>\$67,800.00</b>	<b>\$177,800.00</b>	<b>\$245,600.00</b>
<b>ADMINISTRATION FEE</b>		\$14,224.00	\$14,224.00
<b>TOTAL</b>	<b>\$67,800.00</b>	<b>\$192,024.00</b>	<b>\$259,824.00</b>