

July 2018 Board Packet

Agenda



Regular Board Meeting Agenda

Wednesday, July 11, 2018 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 Minutes June 6, 2018
 - B. Change Order No. 2 Frost/Kennard Spent Lime Filter

4. Treasurer's Report and Bill List

- 5. Visitor Presentations
- 6. Permit Program
 - A. Applications
 - i. 18-13 Trails Edge Apartments, Maplewood
 - ii. 18-14 365 S Owasso Blvd, Roseville
 - iii. 18-15 Hy-Vee, Gem Lake
 - iv. 18-16 Little Canada Elementary Addition
 - v. 18-17 Beede Meadows, Maplewood
 - vi. 18-18 I-694 & Rice Street Interchange including 18-08 WCA
 - B. Enforcement Action Report
- 7. Stewardship Grant Program
 - A. Applications
 - i. 18-13 CS Rolling Hills, infiltration basin
 - ii. 18-14 CS Battle Creek Elementary, native habitat restoration
 - iii. 18-15 CS Maplewood City Hall, rain gardens
 - iv. 18-16 CS Menomini Park, infiltration basin
 - B. Budget Status Update
- 8. Action Items
 - Willow Pond CMAC Approval of Plans & Authorization to Advertise for Bid

Quality Water for Quality Life.

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9. Administrator's Report

- A. Meetings Attended
- B. Upcoming Meetings and Dates
- C. Solar Project Update
- D. Board and CAC Tour Planning
- E. MAWD Summer Tour Update
- F. 2019 Budget Planning
- 10. Project and Program Status Reports
 - A. Ongoing Project and Program Updates
 - i. Permit Application Inspection/Enforcement
 - ii. Beltline Resiliency Study
 - iii. At Risk Subwatershed Feasibility Studies
 - iv. Snail Lake and Grass Lake Study and Berm Raise Project
 - v. Snail, Grass and West Vadnais Lakes Outlet Permitting
 - vi. West to East Vadnais Lakes Gravity Flow Feasibility Evaluation
 - vii. District Wide Atlas 14 Modeling
 - viii. Kohlman Weir Test System
 - ix. Roseville High School Campus Retrofit Feasibility Study
 - x. 2017 Tanners Lake Alum-Facility Monitoring
 - xi. Frost/Kennard Project
 - xii. Wakefield Park/Frost Avenue Project
 - xiii. Targeted Retrofit Projects
 - xiv. BMP Design Assistance and Review
 - xv. Owasso Basin Improvements
 - xvi. Beltline/Battle Creek Tunnel
 - xvii. CIP Maintenance/Repair 2018
 - xviii. Natural Resources Program
 - xix. Education Program
 - xx. Communications Program
- 11. Informational Items
- 12. Report of Managers
- 13. Adjourn

Consent Agenda



Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting June 6, 2018

The Regular Meeting of June 6, 2018, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

ABSENT:

PRESENT:

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

ALSO PRESENT:

Tina Carstens, District Administrator Amanda Staple, Recording Secretary Brad Lindaman, Barr Engineering Simba Blood, Natural Resources Specialist Viet-Hanh Winchell, Attorney for District Paige Ahlborg, Project Manager Eric Korte, Water Quality Monitoring Coordinator Nicole Soderholm, Permit Inspector Dave Vlasin, Water Quality Technician Rebecca Beduhn, SEH for Ramsey County Brent Massey, CEI - Panera

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA

Tina Carstens noted that Item 3B, Change Order No. 1 - 2018 CIP Maintenance and Repair, will be moved to Action Items to be considered as 8B and she requested to add an additional Item, 8C Change Order No. 1 - Grass Lake Berm.

<u>Motion</u>: Dianne Ward moved, Cliff Aichinger seconded, to approve the agenda as amended. Motion carried unanimously.

3. CONSENT AGENDA

- A. <u>Approval of Minutes from May 2, 2018</u>
- B. Change Order No. 1 2018 CIP Maintenance and Repair
- C. Change Order No. 1 Frost/Kennard Spent Lime Filter
- D. Washington County Watershed Based Funding Memorandum of Agreement

<u>Motion</u>: Dr. Pam Skinner moved, Lawrence Swope seconded, to approve the consent agenda as presented. Motion carried unanimously.

4. TREASURER'S REPORT AND BILL LIST

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve the June 6, 2018, bill list as submitted. Motion carried unanimously.

5. VISITOR PRESENTATIONS

There were none.

6. PERMIT PROGRAM

A. Applications

Permit #18-10: Maplewood 2018 Street Improvement Project

Manager Aichinger asked for clarification on the volume credits. Nicole Soderholm provided additional details, noting that they will need to determine the number of cubic feet that will be removed from the Maplewood bank. She stated thus far there are six people interested in curb cut rain gardens. She explained that the city will continue outreach and the rain gardens added will decrease the amount of credit that needs to be used for the project.

Motion: Dr. Pam Skinner moved, Cliff Aichinger seconded, to approve Permit #18-10. Motion carried unanimously.

Permit #18-11: Whistler Pines – Shoreview

Manager Ward stated that it appears an overflow will be added from the infiltration basin to the ditch. Nicole provided additional details noting that the existing conditions create a bowl and therefore the ditch is at a higher elevation than the site. She noted that the only other option would be to raise the entire site and therefore they will use a pump when the water reaches the outflow elevation to reach the county ditch.

Manager Skinner noted that this is near the Grass Lake area and asked if the volume and rate control measures would prevent additional water from going to that area. She asked if the District is looking at sites of this nature that could be purchased for additional storage. Tina Carstens noted that staff did look at sites that could be used for storage, but advised that the small sites would not provide enough storage to make a difference.

Brad Lindaman confirmed that the available sites were reviewed but the smaller sites are not large enough to solve the problem and that is why the District looked downstream in attempt to solve the problem that way.

<u>Motion</u>: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #18-11. Motion carried unanimously.

Permit #18-12: Panera Bread – Maplewood

Nicole Soderholm noted that this is a typical commercial redevelopment.

Brent Massey, in representation of the applicant, stated that they attempted to have an above ground infiltration basin, but the soils were not conducive to infiltration and therefore that aspect is proposed to be placed underground. Manager Skinner asked if the amount of impervious surface will increase with construction. Brent replied that the impervious surface will slightly decrease.

Motion: Dr. Pam Skinner moved, Dianne Ward seconded, to approve Permit #18-12. Motion carried unanimously.

D. I-694 and Rice Street Wetland Mitigation Discussion

Nicole Soderholm stated that this project was introduced to the Board back in October as there are anticipated wetland impacts for the project. She noted that in the past project specific mitigation has been waived for projects that qualify for the Board of Water and Soil Resources (BWSR) road replacement bank. She stated that detailed

information was provided in the packet explaining why project specific mitigation would not be ideal for this project.

Manager Swope asked what would be lost by losing the wetland, in terms of rain mitigation and wildlife. Tina noted that the floodplain mitigation would still need to be provided. Manager Skinner stated that she has big concerns about this. She asked for information on the District policy. Nicole noted that BWSR has recommended approval of this project using the road replacement bank. BWSR is concerned that onsite replacement would not provide adequate quality of wetland due to the position adjacent to a freeway. Manager Aichinger asked if something could be done with the staging area after the project to provide wetland area.

Rebecca Beduhn, SEH, stated that the area will be used for staging and wetland mitigation needs to occur prior to the project beginning. Manager Aichinger stated that, after the project is completed, perhaps some expansion to enhancement of the wetland and habitat could be done on that staging area. Tina noted that the area is used year-round for maintenance activity. Rebecca confirmed that there would not be enough space in that area because the site is used for maintenance purposes currently and in the future the road will go through this part of the site.

Manager Skinner stated that the wetlands currently filter the water from the freeway and asked if something else is going to be done to treat that water. Nicole confirmed that is an element of the permit that will come in for the project. She confirmed that BWSR supports non-project specific mitigation and utilization of the road bank for the project. Rebecca noted that both MnDOT and the Army Corps are also supportive of using non-project specific mitigation. Nicole stated that there is a history of the Board being flexible on the no net loss policy for linear existing road projects. Manager Aichinger stated that he does not have an issue and would support the plan as proposed, noting that the memorandum has sufficient information supporting the request. Manager Ward stated that she did not find sufficient information on why the county could not expand on the wetland two and three sites. Nicole stated that soils and hydrology were a big part of that decision. Rebecca stated that safety was a reason that site was ruled out as well, noting that the slope would cause the water to be too close to the roadway.

Nicole stated that she can provide the additional information to the Board prior to the next meeting for the Board to consider as the permit will come before the Board at the next meeting.

C. Monthly Enforcement Report

During May, 13 notices were sent to address: install/maintain inlet protection (2), install/maintain perimeter control (2), install/maintain construction entrance (2), sweep streets (1), contain liquid/solid wastes (1), protect/maintain permanent BMPs (3), and install/maintain energy dissipation (2).

7. STEWARDSHIP GRANT PROGRAM

A. <u>Applications</u>

Permit #18-11 CS: Lake Phalen Aquatic Vegetation Harvesting

Paige Ahlborg noted that this is the first application for aquatic vegetation removal. She stated that this activity has occurred for years. Tina Carstens confirmed that the District has cost-shared on this for years, this simply moves the action over to the new cost-share program.

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve Permit #18-11 CS. Motion carried unanimously.

B. <u>Budget Status Update</u>

No comments.

8. ACTION ITEMS

A. Stormwater Pollution Prevention Plan Annual Report and Meeting

Tina Carstens reported that this is an annual meeting the District holds, providing an opportunity for the public to comment on the MS4 Stormwater Pollution Prevention Plan (SWPPP). She stated that the report must be sent to

the MPCA by the end of June. Nicole Soderholm stated that there are six minimum control measures that must be included in the report. Manager Swope commended staff for the excellent job on the report. Manager Aichinger referenced the alum treatment information. Eric Korte noted that another staff member from Barr Engineering is compiling the full report for the alum treatment.

<u>Motion</u>: Cliff Aichinger moved, Dianne Ward seconded, to accept the 2017 MS4 Annual Report and authorize the Administrator to submit the report to the MPCA. Motion carried unanimously.

Manager Aichinger asked if the MPCA is doing any more analysis on the reports. Nicole stated that the MPCA does audit on occasion. Tina noted that the last audit the District received was in 2014.

B. <u>Change Order No. 1 – 2018 CIP Maintenance and Repair</u>

Brad Lindaman distributed change order requests from Fitzgerald, the contractor completing both the 2018 CIP Maintenance and Repair project and the Grass Lake Berm project. He stated that the contractor began work earlier in the year on the CIP project and then there was no work during the spring melt. He stated that following the spring melt, when there were good weeks of weather, the District noticed that the contractor was still not working. He stated that staff met with the contractor a couple of weeks ago and explained that the contractor would need to submit a timeline identifying how the project would be completed. He stated that the deadline to have that information submitted was not reached and there was no contact. He stated that the contractor has since been working on the CIP project, but is working outside the contract deadline and had not submitted the necessary information to request an extension. He stated that the legal counsel for the District sent a letter stating that the District would extend the contract to June 15th as long as there is acknowledgement from the contractor of the contract extension. He stated that there still has not been any communication from the contractor. He stated that he was finally able to reach the contractor recently through text specifying that he would need communication from the contractor in order to recommend extension of the contracts at this board meeting.

Brad stated that, as of the night of the board meeting, good progress has been made on the CIP project, but noted that the scope of work has changed on the Battle Creek pipe that will cause the project to run past the mid-June contract extension. He stated that there are two change orders before the Board and there is no obligation for the Board to extend the contracts. He stated that if the Board would choose to end their contracts with Fitzgerald there would be transition costs to switch contractors to finish the project. He provided an update on the progress for the CIP project and noted that there has not been much work on the Grass Lake Berm thus far, with the exception of hauling material.

Manager Aichinger stated that his concern would be that the District would need to rebid the project if the contract is canceled, which would cause further delay. He stated that the berm project is not weather dependent and does not see an issue with completing that project this summer. Brad noted that the only issue with the Grass Lake Berm is that a water control plan would be needed for high water, and the contractor has not yet submitted that plan. Manager Aichinger noted that this contractor was significantly under the other bidders and he would support moving forward with this contractor, ensuring that there is onsite supervision.

Manager Ward stated that she can understand the July 31st date for the berm, but asked why that date would be used for the CIP project. Brad stated that they are still in the discovery stage for the Battle Creek pipe and he would recommend the longer timeline to ensure the work can be completed due to the change in scope because of that site. Manager Ward asked if guidance is being given on which items should be completed first in terms of priority. Brad stated that would take over the responsibility of the contractor, noting that it is the job of the contractor to plan his time accordingly to meet the terms of the contract. Manager Ward stated that there should be priorities to ensure that the work is being completed. Brad noted that priorities can be identified by changing deadlines, if desired. He provided additional details on the issues that arose with the Battle Creek pipe.

President Ebensteiner noted that it appears the contractor is not good with paperwork and is not terribly responsive in communication. She stated that the references appear to support that in the end a good result will be reached. She stated that the contractor has submitted the requested correspondence and is still out working and would support continuing with the contractor rather than rebidding in attempt to go with another contractor. Brad stated that when a project goes past the contract date, additional charges can be recouped through liquidated damages. Viet-Hanh Winchell stated that the District could consider liquidated damages and provided additional details on that process.

Manager Ward stated that it appears the contractor has problems managing the work and therefore she would support creating separate deadlines to align the priorities. Manager Aichinger suggested using July 15th for the Grass Lake Berm and August 30th for the Battle Creek pipe work. Manager Aichinger noted that the change order could include the interim dates for the project elements. Manager Ward stated that she would support shorter deadlines to ensure work is being completed. Viet-Hanh Winchell stated that something needs to be done tonight because the contractor is working outside of the contract.

<u>Motion</u>: Cliff Aichinger moved, Dianne Ward seconded, to approve Change Order No. 1 – 2018 CIP Maintenance and Repair with a completion date of July 31, 2018. Motion carried unanimously.

C. <u>Change Order No. 1 – Grass Lake Berm</u>

<u>Motion</u>: Cliff Aichinger moved, Dianne Ward seconded, to approve Change Order No. 1 – Grass Lake Berm, revising the completion date to July 6, 2018, and directing staff to work with the contractor on phasing. Motion carried unanimously.

9. ADMINISTRATOR'S REPORT

- A. <u>Meetings Attended</u>
- No comments.
- B. Upcoming Meetings and Dates

Tina Carstens provided details on the District paddling event.

C. July Meeting Date Change Reminder

Tina reminded the Board of the July meeting date change.

D. Washington County Meeting Update

Manager Aichinger suggested hosting a tour of Washington County properties within the District, inviting elected officials to highlight the projects in that area. Tina stated that the District could hold that activity as the annual tour this year.

E. <u>3M Settlement Working Group</u>

Tina Carstens confirmed that the District does have a seat at the table for this discussion.

10. PROJECT AND PROGRAM STATUS REPORTS

A. <u>Presentation: 2017 Water Quality Summary</u>

Eric Korte presented the 2017 water quality summary and identified the water quality program sites within the District. He explained that the overall objective is to assess the condition of the lakes over time. He stated that the trophic state index is used to assess the lakes and reviewed the four different trophic states used. He displayed the trophic state data for each of the monitored lakes for 2017.

Manager Skinner asked if increased chloride has an impact on the water quality level. Eric stated that is unknown and noted that stormwater ponds are beginning to be monitored to provide additional data on chloride. He explained that the goal of monitoring is to monitor the lake condition over time and provided the trend analysis

information, noting that a lot of the lakes have positive or no trends, which is a good result. He provided more information on Kohlman Lake in example of a positive trending lake. He provided information on Best Management Practices (BMPs) including the alum plant. Manager Skinner stated that she is very opposed to the use of alum and therefore will never support a project of this type.

Eric provided additional information on various BMP monitoring throughout the District.

Manager Skinner asked if there are other researchers in this area that would perhaps be interested in projects. Tina Carstens stated that there is a project coming up where the District will work with Saint Anthony Falls Lab to determine if iron could be added to ponds to reduce phosphorus. Manager Aichinger stated that the Minnesota Stormwater Research Council is up and running and two grants were issued last year. He stated that new projects will be authorized each year. Manager Skinner stated that it would be great to allow master students to participate in certain research projects. Tina confirmed that master students are involved in the projects. Eric then reviewed some of the future monitoring sites.

B. <u>New Project Memo: Maplewood Mall Green Infrastructure Assessment</u>

Manager Aichinger stated that he is glad to see this plan and he believes that this is the time to complete that assessment. Brad Lindaman provided additional details on the process that will be used. He noted that water runs not only through the District project area but also from untreated areas. Tina stated that the rain gardens are easily monitored, and the District is now going to focus on the tree trenches.

C. <u>New Project Memo: Impact of Removal of Accumulated Sediment from Wakefield Lake on Lake Phalen Water</u> <u>Quality</u>

Tina stated that there is accumulated sediment at the south part of Wakefield Lake. Brad stated that they are attempting to determine if it would be worth it to dig the sediment out and determine if there is an impact downstream. He noted that the study will determine whether that action would be beneficial and cost efficient. Manager Aichinger asked if it would be beneficial to move some of the sediment during excavation, if that path is taken, in attempt to increase the circulation of the lake. He asked if that could be part of the study. Tina confirmed that could be discussed.

D. Ongoing Project and Program Updates

- i. Permit Application Inspection/Enforcement
- ii. Beltline Resiliency Study
- iii. At Risk Subwatershed Feasibility Studies
- iv. Snail Lake and Grass Lake Study and Berm Raise Project
- <u>Snail, Grass and West Vadnais Lakes Outlet Permitting</u> Dianne Ward asked if there has been any more progress with the DNR regarding Item V. Brad Lindaman replied that staff is still working to discuss the item further before discussing permitting, in attempt to further flush out the cost details.
- vi. District Wide Atlas 14 Modeling
- vii. Kohlman Weir Test System
- viii. Roseville High School Campus Retrofit Feasibility Study
- ix. Frost/Kennard Project
- x. Willow Pond CMAC Project
- xi. Wakefield Park/Frost Avenue Project
- xii. Targeted Retrofit Projects
- xiii. BMP Design Assistance and Review
- xiv. Owasso Basin Improvements
- xv. Beltline/Battle Creek Tunnel
- xvi. <u>CIP Maintenance/Repair 2018</u>

xvii.<u>Natural Resources Program</u> xvii.<u>Education Program</u>

President Ebensteiner noted that there will be a more thorough review of the projects and programs at the next meeting. She stated that in the future it would also be helpful to have a presentation on the education programs to recognize the work that is being done.

Manager Aichinger referenced the Maplewood Mall study and suggested that perhaps this would be a good time to discuss the user agreement and maintenance responsibilities.

11. INFORMATIONAL ITEMS

No comments.

12. REPORTS OF MANAGERS

Manager Aichinger asked if staff has thought about site tours the staff might hold for the board. Tina Carstens stated that staff thought about going to the Wakefield park site with plans to look further in depth at that site. She identified potential other locations and noted that the tour could occur prior to the regular Board meeting.

13. ADJOURN

Motion: Cliff Aichinger moved, Dr. Pam Skinner seconded, to adjourn the meeting at 8:35 p.m. Motion carried unanimously.

Respectfully submitted,

Dr. Pam Skinner, Secretary

Consent Agenda Item

Board Meeting Date:	July 11, 2018	Agenda Item No.: <u>3B</u>
Preparer:	Tina Carstens, Administrator	
Item Description:	Change order #2 for the Frost/Kennard Spent	Lime Filter

Background:

Attached is change order #2 for the Frost/Kennard Spent Lime Filter Project. At the June 6, 2018 board meeting a change order for contract extension was awarded to the contractor in order to order, furnish and install an anti-backflow check valve. This change order pays for the cost of that check valve. The valve is needed to reduce backflows into the filter, which cause sediment to degrade the filter performance.

The rest of the construction is nearly complete. The filter remains offline until the backflow preventer and the monitoring equipment is installed. Construction is expected to be complete and the monitoring equipment installed in July or August dependent upon delivery of the specified backflow preventer.

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 Items: Expand the use of innovative water quality improvement designs, products, equipment, and methods as necessary to address sites with limited land area for conventional treatment techniques.

Staff Recommendation:

Approve Change Order #2.

Financial Implications:

This request increases the contract price by \$3,300.00. There is sufficient funds in the project budget for this increase.

Board Action Requested:

Approve Change Order #2.

Change Order No. 2 Ramsey-Washington Metro Watershed District Frost/Kennard Stormwater Filter

DATE OF ISSUANCE: June 26, 2018

- Owner: Ramsey-Washington Metro Watershed District 2665 Noel Drive Little Canada, MN 55117 Attn: Marj Ebensteiner
- Contractor: Minger Construction Co., Inc. 620 Corporate Drive Jordan, MN 55352 Attn: Aaron Hoefs
- Engineer: Barr Engineering Company 4300 MarketPointe Drive, Suite 200 Minneapolis, MN 55435 Attn: Brad Lindaman

C.O.2.A Contract Completion Extension

Description of Change:

Engineer requested a quote from the Contractor to provide a system valve to reduce backflows into the filter, reducing the sediment that can degrade the filter performance. A CheckMate UltraFlex Inline Valve was selected and obtained by the Contractor for installation.

Measurement and Payment:

CheckMate UltraFlex Inline Valve shall be measured per each (Each) as installed and recorded in the field and directed by the Engineer. Payment will be based on a unit price per each (Each) CheckMate UltraFlex Inline Valve installed, all complete as specified. This unit price shall be payment in full for the costs of all supervision, materials, equipment, labor, supplies, profit and overhead, and performing all operations as are necessary to furnish and install, CheckMate UltraFlex Inline Valve, all complete as specified.

Change in Contract Time:

None

Total Impact on Contract Price:

Additional cost of \$3,300.00 is anticipated.

This Change Order No. 2 is:

Date: June 26, 2018

Submitted By: (ENGINEER)

Bradley J. Lindaman, Project Engineer Barr Engineering Company

Date: _____

Authorized By: (OWNER)

Marj Ebensteiner, President Ramsey-Washington Metro Watershed District

Approved By:

(CONTRACTOR) Aaron Hoefs, Project Manager Minger Construction Co., Inc.

Date: 6/27/18

Bill List

RWMWD BUDGET STATUS REPORT Administrative & Program Budget Fiscal Year 2018

6/30/2018

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	-	225.00	1,855.00	\$4,645.00	28.54%
	Manager expenses	4360	3,500.00	-	-	552.52	2,947.48	15.79%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	211.00	1,488.53	2,011.47	42.53%
Employees	Staff salary/taxes/benefits	4010	1,300,000.00	-	146,089.94	601,207.03	698,792.97	46.25%
	Employee expenses	4020	10,000.00	-	521.11	1,725.85	8,274.15	17.26%
	District training & education	4350	25,000.00	-	3,261.16	8,072.03	16,927.97	32.29%
Administration/	GIS system maint. & equip.	4170	15,000.00	-	-	2,537.02	12,462.98	16.91%
Office	Data Base/GIS Maintenance	4171	15,000.00	-	-	1,300.00	13,700.00	8.67%
	Equipment maintenance	4305	3,000.00	-	-	1,430.83	1,569.17	47.69%
	Telephone	4310	8,000.00	-	358.22	1,543.68	6,456.32	19.30%
	Office supplies	4320	5,000.00	-	660.15	2,121.05	2,878.95	42.42%
	IT/Internet/Web Site/Software Lic.	4325	42,000.00	-	2,767.86	16,511.44	25,488.56	39.31%
	Postage	4330	10,000.00	-	489.65	2,132.12	7,867.88	21.32%
	Printing/copying	4335	8,000.00	-	285.67	2,224.93	5,775.07	27.81%
	Dues & publications	4338	11,000.00	-	-	7,620.00	3,380.00	69.27%
	Janitorial/Trash Service	4341	17,000.00	-	1,564.95	6,641.56	10,358.44	39.07%
	Utilities/Bldg.Contracts	4342 4343	18,000.00	-	964.92	9,505.74	8,494.26	52.81%
	Bldg/Site Maintenance	4343	70,000.00	-	1,004.60	5,457.31	64,542.69	7.80%
	Miscellaneous		5,000.00	-	-	325.19	4,674.81	6.50%
	Insurance Office equipment	4480 4703	35,000.00 40,000.00	-	-	4,643.00 11,728.92	30,357.00 28,271.08	13.27% 29.32%
	Office equipment Vehicle lease, maintenance	4703	43,000.00	-	- 841.14	29,831.55	13,168.45	69.38%
Consultants/	Auditor/Accounting	4810-40	50,000.00	-	1,993.60	34,782.85	15,217.15	69.57%
Outside Services	Engineering-administration	4110	93,000.00		4,955.00	31,547.18	61,452.82	33.92%
Outside services	Engineering-permit I&E	4121	15,000.00	-	4,555.00	3,155.00	11,845.00	21.03%
	Engineering-eng. review	4122	55,000.00	-	3,738.00	29,349.44	25,650.56	53.36%
	Engineering-permit review	4123	50,000.00	-	7,224.00	19,302.50	30,697.50	38.61%
	Project Feasibility Studies	4129	735,000.00	-	32,370.71	172,844.06	562,155.94	23.52%
	Attorney-permits	4130	10,000.00		221.68	825.28	9,174.72	8.25%
	Attorney-general	4130	40,000.00	-	1,930.00	7,030.00	32,970.00	17.58%
	Outside Consulting Services	4160	40,000.00	-	-	7,832.00	32,168.00	19.58%
Programs	Educational programming	4370	60,000.00	-	7,522.46	16,678.65	43,321.35	27.80%
	Communications & Marketing	4371	25,000.00		594.17	3,722.16	21,277.84	14.89%
	Events	4372	50,000.00	-	10,643.68	30,012.10	19,987.90	60.02%
	Water QM-Engineering	4520-30	513,000.00	-	12,576.54	43,286.88	469,713.12	8.44%
	Project operations	4650	140,000.00	-	18,810.85	88,054.20	51,945.80	62.90%
	SLMP/TMDL Studies	4661	115,000.00	-	3,684.70	6,260.70	108,739.30	5.44%
	Natural Resources/Keller Creek	4670-72	100,000.00	-	10,189.03	31,934.80	68,065.20	31.93%
	Outside Prog.Support/Weed Mgmt.	4683-84	70,000.00	-	1,569.54	30,694.03	39,305.97	43.85%
	Research Projects	4695	100,000.00	-	29,943.00	34,851.63	65,148.37	34.85%
	Health and Safety Program	4697	2,000.00	-	1,524.95	1,577.10	422.90	78.86%
	NPDES Phase II	4698	20,000.00	-	1,742.00	3,668.00	16,332.00	18.34%
	Atlas 14 Watershed Modeling	4732	-	-	-	-	-	0.00%
GENERAL FUND TOT			\$3,976,500.00	\$0.00	\$310,479.28	\$1,317,863.86	\$2,658,636.14	33.14%
CIP's	CIP Project Repair & Maintenance	516	1,000,000.00	-	50,787.09	489,200.60	510,799.40	48.92%
	Targeted Retrofit Projects	518	800,000.00	-	20,448.55	37,641.43	762,358.57	4.71%
	District Office Building Solar Energy Retrofit	519	150,000.00	-	140.00	38,720.00	111,280.00	25.81%
	Flood Damage Reduction Fund	520	2,000,000.00	-	12,083.93	60,865.58	1,939,134.42	3.04%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	448,951.00	-	110,093.34	387,618.43	61,332.57	86.34%
	Stewardship Grant Program Fund	528-529	800,000.00	-	280,574.06	326,804.63	473,195.37	40.85%
	Impervious Surface Volume Reduction Opportunity	531	1,500,000.00	-	-	-	1,500,000.00	0.00%
	Beltline & Battle Creek Tunnel Repair	549	-	-	43,814.74	1,401,085.59	(1,401,085.59)	
	Frost/Kennard Enhanced WQ BMP	550	400,000.00	-	3,198.00	23,085.71	376,914.29	5.77%
	Markham Pond Dredging & Aeration	551	25,000.00	-	-	-	25,000.00	0.00%
	Wakefield Park Project	553	1,100,000.00	-	8,278.50	21,878.43	1,078,121.57	1.99%
	Willow Pond CMAC	554	400,000.00		15,595.30	62,999.54	337,000.46	15.75%
CIP BUDGET TOTAL	District Office Bond Payment	585	194,885.00	-	1,809.72	196,983.53	(2,098.53)	101.08% 34.55%
TOTAL BUDGET TOTAL			\$8,818,836.00 \$12,795,336.00	- \$0.00	\$546,823.23 \$857,302.51	\$3,046,883.47 \$4,364,747.33	\$5,771,952.53 \$8,430,588.67	34.55% 34.11%
TOTAL BODGET			J12,755,550.00	ŞU.UU	3057,302.51	ə4,304,/4/.33	,50,450,588.0 <i>1</i>	54.11%

Current Fund Balances:						
Fund:	Beginning Fund Balance @ 12/31/17	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 06/30/18
101 - General Fund	\$4,329,903.56	-	141,390.36	310,479.28	1,317,863.86	3,153,430.06
516 - CIP Project Repair & Maintenance	615,041.00	-	54,412.00	50,787.09	489,200.60	180,252.40
518 - Targeted Retrofit Projects	836,989.00	-	15,000.00	20,448.55	37,641.43	814,347.57
519 - District Office Building Solar Energy Retrofit	129,623.00	-	0.00	140.00	38,720.00	90,903.00
520 - Flood Damage Reduction Fund	1,118,749.00	-	21,772.11	12,083.93	60,865.58	1,079,655.53
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	359,578.00	-	0.00	110,093.34	387,618.43	(28,040.43)
528/529 - Stewardship Grant Program Fund	561,388.00	-	15,000.00	280,574.06	326,804.63	249,583.37
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	0.00	0.00	0.00	1,484,215.00
549 - Beltline & Battle Creek Tunnel Repair	2,407,984.00	-	0.00	43,814.74	1,401,085.59	1,006,898.41
550 - Frost/Kennard Enhanced WQ BMP	119,513.00	-	0.00	3,198.00	23,085.71	96,427.29
551 - Markham Pond Dredging & Aeration	110,411.00	-	0.00	0.00	0.00	110,411.00
553 - Wakefield Park Project	351,874.00	-	0.00	8,278.50	21,878.43	329,995.57
554 - Willow Pond CMAC	-	-	0.00	15,595.30	62,999.54	(62,999.54)
580 - Contingency Fund	476,100.94	-	0.00	0.00	0.00	476,100.94
585 - Certificates of Participation	133,637.00	-	0.00	1,809.72	196,983.53	(63,346.53)
Total District Fund Balance	\$13,035,006.50	-	\$ 247,574.47	\$ 857,302.51	\$4,364,747.33	\$8,917,833.64

Ramsey Washington Metro Watershed Dist. Check Register For the Period From Jun 1, 2018 to Jun 30, 2018

Check #	Date	Payee ID	Payee	Description	Amoun
EFT	06/01/18	met008	MetLife-Group Benefits	Employee Benefits	\$1,196.21
EFT	06/14/18	hea002	HealthPartners	Employee Benefits	9,203.67
EFT	06/19/18	qwe001	CenturyLink	Project Operations	225.91
EFT	06/26/18	kin001	FedEx Office	Events	164.33
69938V	06/30/18	gra001	Rick Gravrok	VOID	(125.00
69986	06/18/18	ada002	Adam's Pest Control, Inc.	Utilities/Bldg. Contracts	79.00
69987	06/18/18	aws001	AWS Service Center	Janitorial/Trash Services	186.51
69988	06/18/18	bud001	Budget Sign & Graphics	Events	50.00
69989	06/18/18	cob003	Dominic Cobb	Events	90.00
69990	06/18/18	eas001	East Side Area Business Association	Stewardship Grant Fund	150.00
69991	06/18/18	hej001	Hejny Rental	Events	132.97
69992	06/18/18	hen002	Henriksen Ace Hardware	Natural Resources Project	58.72
69993	06/18/18	hic001	Kaitlyn Hicks	Events	90.00
69994	06/18/18	ing002	INGCO International, Inc.	Communications/Events	934.17
69995	06/18/18	jam001	James Steele Construction, Inc	Bldg/Site Maintenance	600.00
69996	06/18/18	kid002	KidZibits, Inc.	Construction-Maint. & Rep.	10,300.00
69997	06/18/18	mac004	Jack MacMillan	Events	127.50
69998	06/18/18	mbc001	MBC Consulting	Events	3,000.00
69999	06/18/18	mil002	Becca Miller	Events	90.00
70000	06/18/18	ncp001	NCPERS Minnesota	Employee Benefits	16.00
70001	06/18/18	pit001	Pitney Bowes Global Financial Serv LLC	Postage	142.47
70002	06/18/18	pre003	Premium Waters, Inc.	Utilities/Bldg. Contracts	19.00
70002	06/18/18	rei003	Avery Reid	Events	90.00
70004	06/18/18	ros003	Roseville Area Middle School	Educational Program	458.93
70005	06/18/18	ros004	Roseville Midway Ford	Vehicle Expense	59.05
70006	06/18/18	rpz001	RPZ Testing Services	Project Operations	120.00
70007	06/18/18	stp004	St. Paul East Parks Lions	Events	607.50
70008	06/18/18	the003	The Luther Company, LLLP	Dev Escrow-General	36,790.00
70009	06/18/18	tho003	Adam Thompson	Events	71.25
70010	06/18/18	was003	Washington CoTaxation Div.	Auditor/Accounting	35.00
70011	06/18/18	wen001	Sue Wendlund	Events	127.50
70012	07/02/18	ah1001	Paige Ahlborg	Employee Reimbursement	523.37
70012	07/02/18	all004	allstream	Project Operations	64.75
70014	07/02/18	als001	ALS Group USA, Corp	Water QM Staff	1,115.00
70015	07/02/18	and003	Deborah Andresen	Educational Program	125.00
70016	07/02/18	att002	AT & T Mobility - ROC	IT/Website/Software	45.23
70017	07/02/18	bar001	Barr Engineering	May/June Engineering	147,896.92
70018	07/02/18	bar004	Deborah Barnes	Employee Reimbursement	86.10
70019	07/02/18	blo001	Simba Blood	Employee Reimbursement	100.50
70020	07/02/18	bre003	Bremer Bank	Employee Benefits	6,468.75
70021	07/02/18	cad003	Cady Building Maintenance, Inc.	Janitorial/Trash Services	605.00
70022	07/02/18	cad003	Cady Building Maintenance, Inc.	Janitorial/Trash Services	773.44
70022	07/02/18	car007	Carp Solutions, LLC	Natural Resources Project	10,024.90
70024	07/02/18	chi001	Chick-fil-A, Inc.	Dev Escrow-General	6,320.00
	07/02/18	chi002	Linda Chimzar	Stewardship Grant Fund	2,196.43
70025					

Ramsey Washington Metro Watershed Dist. Check Register For the Period From Jun 1, 2018 to Jun 30, 2018

Check #	Date	Payee ID	Payee	Description	Amou
70027	07/02/18	cit013	City of St. Paul	Stewardship Grant Fund	270,358.7
70027	07/02/18	far002	Farnsworth Aerospace Magnet	Educational Program	320.0
70028	07/02/18	gal001	Galowitz Olson, PLLC	June Legal Fees	2,610.0
70029	07/02/18	gil001	Gilbert Mechanical Contractors, Inc.	Bldg/Site Maintenance	2,010.0
70030	07/02/18	gra005		Construction-Maint. & Rep.	23.2
		hac002	Grainger	-	
70032 70033	07/02/18 07/02/18	har002	Hach Company Harmony Adult Education	Water QM Staff	286.6 107.2
		haw001	Harmony Adult Education	Educational Program	
70034	07/02/18		Hawkins, Inc.	Project Operations	13,182.8
70035	07/02/18	hen002	Henriksen Ace Hardware	Natural Resources Project	3.1
70036	07/02/18	hom001	Home Depot Credit Services	Nat.Resources/Water QM	127.3
70037	07/02/18	inn002	Innovative Office Solutions LLC	Office Supplies	356.3
70038	07/02/18	int001	Office of MN, IT Services	Telephone Expense	55.4
70039	07/02/18	kwi001	Kwik Trip, Inc.	Dev Escrow-General	10,500.0
70040	07/02/18	lea003	L. Tracy Leavenworth	Educational Program	5,839.7
70041	07/02/18	lig001	Lighthouse Management Group, Inc.	Dev Escrow-General	6,800.0
70042	07/02/18	mel001	Michelle L. Melser	Employee Reimbursement	71.0
70043	07/02/18	min007	Minger Construction Co., Inc.	Construction-Maint. & Rep.	17,459.0
70044	07/02/18	min008	Minnesota Native Landscapes, Inc.	Construction-Maint. & Rep.	9,691.0
70045	07/02/18	min010	MN Public Facilities Authority	Debt ServBeltline/Tanner	110,093.3
70046	07/02/18	mmc001	MMC Associates, Inc.	Events	3,475.1
70047	07/02/18	mon001	Monarch Bus Service	Events	820.0
70048	07/02/18	ncp001	NCPERS Minnesota	Employee Benefits	16.0
70049	07/02/18	nor016	Northland Trust Services, Inc.	Construction-Beltline/Battle	38,876.2
70050	07/02/18	nsp001	Xcel Energy	Proj.Operations/Utilities	1,049.5
70051	07/02/18	obr001	Christopher O'Brien	Employee Reimbursement	213.2
70052	07/02/18	omo001	Nicholas D. Omodt	Employee Reimbursement	10.9
70053	07/02/18	pac001	Pace Analytical Services, Inc.	Water QM Staff	7,371.5
70054	07/02/18	pas002	Sage Passi	Employee Reimbursement	487.8
70055	07/02/18	pen001	Penn Contracting, Inc.	Construction-Maint. & Rep.	4,800.0
70056	07/02/18	pit002	Pitney Bowes, Inc.	Postage	347.1
70057	07/02/18	pra001	Prairie Moon Nursery, Inc.	Natural Resources Project	52.0
70058	07/02/18	pro003	Lyndsey R. Provos	Employee Reimbursement	48.7
70059	07/02/18	ram012	Ramsey Co.Master Gardener Program	Stewardship Grant Fund	204.5
70060	07/02/18	red002	Redpath & Company, Ltd	May Accunting	1,958.6
70061	07/02/18	sig001	Sign-A-Rama	Vehicle Expense	255.4
70062	07/02/18	sod001	Nicole Soderholm	Employee Reimbursement	168.9
70063	07/02/18	stp003	St. Peter Catholic School	Educational Program	273.6
70064	07/02/18	sun001	Sunram Construction, Inc	Payment #6-Final	8,465.7
70065	07/02/18	tec001	Tech Sales Co.	Research Projects	24,627.0
70066	07/02/18	tel001	Teledyne Instruments, Inc.	Water QM Staff	1,077.5
70067	07/02/18	tim002	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting	211.0
70068	07/02/18	uni006	University of Minnesota	Training & Education	40.0
70069	07/02/18	ups001	United Parcel Service	Water QM Staff	87.1
70070	07/02/18	usb002	U.S. Bank	Monthly Credit Card Ex.	5,869.3
70071	07/02/18	usb002 usb003	US Bank St. Paul	Debt ServCert.of Particip.	1,809.7
70072	07/02/18	usb005 usb005	US Bank Equipment Finance	Printing Expense	285.6
70072	07/02/18	voy001	US Bank Voyager Fleet Sys.	Vehicle Fuel	526.6
70074	07/02/18	wea002	Weaver Elementary School	Educational Program	133.2
	01,04,10	11 Cu002		i	100.4

Total

\$796,261.01

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Deta
06/01/18	EFT	met008	MetLife-Group Benefits			\$1,196.21	
				4040-101-000	Employee Benefits-General	+-,-,	988.1
					Employee Health-General		208.0
06/14/18	EFT	hea002	HealthPartners		I by the second second	9,203.67	
				4040-101-000	Employee Benefits-General	,	7,486.1
				2015-101-000	Employee Health-General		1,717.5
06/19/18	EFT	qwe002	CenturyLink	4650-101-000	Project Operations-General	225.91	
06/26/18	EFT	kin001	FedEx	4372-101-000	Events	164.33	
06/30/18	69938V	gra001	Rick Gravrok	4372-101-000	Events	(125.00)	
06/18/18	69986	ada002	Adam's Pest Control	4342-101-000	Utilities/Bldg. Contracts	79.00	
06/18/18	69987	aws001	AWS Service Center	4341-101-000	Janitorial/Trash Service	186.51	
06/18/18	69988	bud001	Budget Sign & Graphics	4372-101-000	Events	50.00	
06/18/18	69989	cob003	Dominic Cobb	4372-101-000	Events	90.00	
06/18/18	69990	eas001	East Area Business Association	4682-529-000	Stewardship Grant Program	150.00	
06/18/18	69991	hej001	Hejny Rental	4372-101-000	Evemts	132.97	
06/18/18	69992	hen002	Henriksen Ace Hardware	4670-101-000	Natural Resources Project-General	58.72	
06/18/18	69993	hic001	Kaitlyn Hicks	4372-101-000	Events	90.00	
06/18/18	69994	ing002	INGCO International, Inc.			934.17	
				4372-101-000	Events		420.0
				4371-101-000	Communications & Marketing		514.
06/18/18	69995	jam001	James Steele Construction, Inc.	4343-101-000	Bldg./Site Maintenance	600.00	
06/18/18	69996	kid002	KidZibits, Inc.	4630-516-000	Construction ImpMaint. & Repair	10,300.00	
06/18/18	69997	mac004	Jack MacMillan	4372-101-000	Events	127.50	
06/18/18	69998	mbc001	MBC Consulting	4372-101-000	Events	3,000.00	
06/18/18	69999	mi1002	Becca Miller	4372-101-000	Events	90.00	
06/18/18	70000	ncp001	NCPERS Minnesota	2015-101-000	Employee Health-General	16.00	
06/18/18	70001	pit001	Pitney Bowes Global Financial Ser., LLC	4330-101-000	Postage-General	142.47	
06/18/18	70002	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	19.00	
06/18/18	70003	rei003	Avery Reid	4372-101-000	Events	90.00	
06/18/18	70004	ros003	Roseville Area Middle School	4370-101-000	Educational Program-General	458.93	
06/18/18	70005	ros004	Roseville Midway Ford	4820-101-000	Vehicle Maintenance-General	59.05	
06/18/18	70006	rpz001	RPZ Testing Services	4650-101-000	Project Operations-General	120.00	
06/18/18	70007	stp004	St. Paul East Parks Lions	4372-101-000		607.50	
06/18/18	70008	the003	The Luther Company, LLLP	2024-101-000	Dev Escrow-General	36,790.00	
06/18/18	70009	tho003	Adam Thompson	4372-101-000		71.25	
06/18/18	70010	was003	Washington County-Taxation Division		Auditor/Accounting	35.00	
06/18/18	70011	wen001	Sue Wendlund	4372-101-000	Events	127.50	

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detai
07/02/18	70012	ah1001	Paige Ahlborg			523.37	
///02/10	70012	unioor	i ugo i unoorg	4040-101-000	Employee Benefits-General	525.57	37.0
					Employee Expense-General		101.9
					Training & Education-General		384.4
07/02/18	70013	al1004	allstream		Project Operations-General	64.75	
07/02/18	70014	als001	ALS Group USA, Corp.		Water QM Staff-General	1,115.00	
07/02/18	70015	and003	Deborah Anderson		Educational Program-General	125.00	
07/02/18	70016	att002	AT & T Mobility - ROC		IT/Website/Software	45.23	
07/02/18	70017	bar001	Barr Engineering			147,896.92	
			0 0	4121-101-000	Engineering Admin-General Fund		4,955.0
					Health & Safety Program		1,356.0
					Engineering-NPDES Phase II		1,742.0
					Engineering-Review		3,738.0
					Project Feasability-General		4,563.0
					Project Feasability-General		58.5
					Project Feasability-General		1,353.5
					Project Feasability-General		915.
					Project Feasability-General		1,682.0
					Project Feasability-General		115.5
					Project Feasability-General		1,700.0
					Project Feasability-General		571.0
					Project Feasability-General		5,537.0
					Project Feasability-General		1,779.0
					Project Feasability-General		14,095.0
					Water QM-Engineering		175.5
					Water QM-Engineering		1,042.5
					Water QM-Engineering		1,116.5
					Engineering-Permit Review		7,224.0
					SLMP/TMDL Studies		378.0
					SLMP/TMDL Studies		3,306.7
					Research Projects-General		836.0
					Research Projects-General		4,480.0
					Project Operations-General		4,995.0
					Engineering-Wakefield		8,278.5
					Engineering-Frost/Kennard		3,198.0
					Engineering-School/Commer Retrofit		7,545.5
					Engineering-School/Commer Retrofit		5,473.8
					Engineering-School/Commer Retrofit		7,429.2
					Stewardship Grant Program		7,664.4
					Engineering-Willow Pond		15,595.3
					Engineering-Flood Damage		8,876.4
					Engineering-Flood Damage		2,707.5
					Engineering-Office Solar Energy		140.0
					Engineering-Beltline/Battle Creek		4,938.4
					Engineering-Projects Maint. & Repair		2,380.8
					Engineering-Projects Maint. & Repair		5,953.0

		Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
07/02/18	70018	bar004	Deborah Barnes			86.10	
07/02/10	70010	041004	Deboran Darnes	4040-101-000	Employee Benefits-General	00.10	19.06
					Employee Expense-General		67.04
07/02/18	70019	blo001	Simba Blood	1020 101 000	Employee Expense General	100.50	07.01
07/02/10	/001/	010001	Shilou Blood	4040-101-000	Employee Benefits-General	100.50	40.00
					Employee Expense-General		4.84
				4372-101-000			28.19
					Natural Resources Project-General		27.47
07/02/18	70020	bre003	Bremer Bank		Employee Benefits-General	6,468.75	27117
07/02/18	70021	cad003	Cady Building Maintenance, Inc.		Janitorial/Trash Service	605.00	
07/02/18	70022	cad003	Cady Building Maintenance, Inc.		Janitorial/Trash Service	773.44	
07/02/18	70023	car007	Carp Solutions, LLC		Natural Resources Project-General	10,024.90	
07/02/18	70024	chi001	Chick-fil-A. Inc.		Dev Escrow-General	6,320.00	
07/02/18	70025	chi002	Linda Chimzar		Stewardship Grant Program	2,196.43	
07/02/18	70026	cit011	City of Roseville		I Barris	2,932.82	
			, , , , , , , , , , , , , , , , , , ,	4325-101-000	IT/Website/Software	,	2,630.00
				4310-101-000	Telephone-General		302.82
07/02/18	70027	cit013	City of St. Paul		Stewardship Grant Program	270,358.73	
07/02/18	70028	far002	Farnsworth Aerospace Magnet		Educational Program-General	320.00	
07/02/18	70029	ga1001	Galowitz Olson, PLLC			2,610.00	
		U		4131-101-000	Attorney General-General Fund		1,930.00
					Attorney-Flood Damage		500.00
					Attoryen General-Maint. & Repair		180.00
07/02/18	70030	gil001	Gilbert Mechanical Contractors, Inc.		Bldg./Site Maintenance	341.89	
07/02/18	70031	gra005	Grainger		Construction ImpMaint. & Repair	23.25	
07/02/18	70032	hac002	Hach Company		Water QM Staff-General	286.67	
07/02/18	70033	har003	Harmony Adult Education	4370-101-000	Educational Program-General	107.20	
07/02/18	70034	haw001	Hawkins, Inc.	4650-101-000	Project Operations-General	13,182.80	
07/02/18	70035	hen002	Henriksen Ace Hardware		Natural Resources Project-General	3.12	
07/02/18	70036	hom001	Home Depot Credit Services		-	127.37	
			*	4670-101-000	Natural Resources Project-General		22.82
				4530-101-000	Water QM-Engineering		104.55
07/02/18	70037	inn002	Innovative Office Solutions, LLC		Office Supplies-General	356.30	
07/02/18	70038	int001	Office of MN, IT Services	4310-101-000	Telephone-General	55.40	
07/02/18	70039	kwi001	Kwik Trip, Inc.	2024-101-000	Dev Escrow-General	10,500.00	
07/02/18	70040	lea003	L. Tracy Leavenworth	4370-101-000	Educational Program-General	5,839.71	
07/02/18	70041	lig001	Lighthouse Management Group, Inc.	2024-101-000	Dev Escrow-General	6,800.00	
07/02/18	70042	mel001	Michelle Melser			71.07	
					Employee Benefits-General		40.00
				4020-101-000	Employee Expense-General		31.07
07/02/18	70043	min007	Minger Construction Co., Inc.		Construction ImpMaint. & Repair	17,459.00	
07/02/18	70044	min008	Minnesota Native Landscape, Inc.	4670-101-000	Construction ImpMaint. & Repair	9,691.00	

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
					•		·
07/02/18	70045	min010	MN Public Facilities Authority		Debt Service-Beltline/Tanner	110,093.34	
07/02/18	70046	mmc001	MMC Associates, Inc.	4372-101-000		3,475.18	
07/02/18	70047	mon001	Monarch Bus Service	4372-101-000		820.00	
07/02/18	70048	ncp001	NCPERS Minnesota		Employee Health-General	16.00	
07/02/18	70049	nor016	Northland Trust Services, Inc.	4630-549-000	Construction-Beltline/Battle	38,876.25	
07/02/18	70050	nsp001	Xcel Energy			1,049.50	
					Utilities/Bldg. Contracts		866.92
					Project Operations-General		182.58
07/02/18	70051	obr001	Christopher O'Brien		Employee Benefits-General	213.21	
07/02/18	70052	omo001	Nicholas Omodt		Employee Expense-General	10.90	
07/02/18	70053	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	7,371.50	
07/02/18	70054	pas002	Sage Passi			487.87	
					Employee Benefits-General		59.00
					Educational Program-General		264.82
					Employee Expense-General		164.05
07/02/18	70055	pen001	Penn Contracting		Construction ImpMaint. & Repair	4,800.00	
07/02/18	70056	pit002	Pitney Bowes, Inc.		Postage-General	347.18	
07/02/18	70057	pra001	Prairie Moon Nursery, Inc.	4670-101-000	Natural Resources Project-General	52.00	
07/02/18	70058	pro003	Lyndsey R. Provos	10.10.101.000		48.72	10.00
					Employee Benefits-General		40.00
07/02/10	70050	010			Employee Expense-General	204.50	8.72
07/02/18	70059	ram012	Ramsey Co Master Gardener Program		Stewardship Grant Program	204.50	
07/02/18	70060	red002	Redpath & Company, Ltd		Auditor/Accounting	1,958.60	
07/02/18 07/02/18	70061	sig001 sod001	Sign-A-Rama Nichole Soderholm	4840-101-000	Vehicle-Miscellaneous	255.43	
07/02/18	70062	sod001	Nichole Sodernoim	4040 101 000		168.94	120.22
					Employee Benefits-General		139.32
07/02/18	70063	atm002	St. Peter Catholic School		Employee Expense-General	273.60	29.62
		stp003			Educational Program-General BMP Cost Share Project		
07/02/18	70064 70065	sun001	Sunram Construction, Inc. Tech Sales Co.		Research Projects-General	8,465.71	
07/02/18 07/02/18	70065	tec001 tel001	Teledyne Instruments, Inc.		Water QM Staff-General	24,627.00 1,077.50	
07/02/18	70066	tim002	Timesaver Off-Site Secretarial, Inc.		Committee/Board Meeting Expense	211.00	
07/02/18	70067	uni002	University of Minnesota		Training & Education-General	40.00	
07/02/18	70068	uni008 ups001	United Parcel Service		Water QM Staff-General	40.00 87.15	
		*		4550-101-000	water QM Stall-General		
07/02/18	70070	usb002	U.S. Bancorp	4343 101 000	Bldg./Site Maintenance	5,869.32	40.66
					Project Operations-General		40.88 39.81
					Training & Education-General		50.00
				4350-101-000			50.00 748.75
					Events Bldg./Site Maintenance		22.05
				4545-101-000	Diug./ Site Maintenance		22.05

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4325-101-000	IT/Website/Software		92.63
					Office Supplies-General		13.05
					Office Supplies-General		35.92
				4372-101-000			98.58
					Health & Safety Program		119.82
					Training & Education-General		100.00
					Office Supplies-General		15.96
					Health & Safety Program		32.34
					Office Supplies-General		151.45
					Health & Safety Program		16.79
				4372-101-000			38.78
				4372-101-000			84.90
				4372-101-000			14.99
					Office Supplies-General		21.46
				4372-101-000			161.93
					Training & Education-General		101.76
				4372-101-000	6		29.00
				4372-101-000			207.33
				4350-101-000	Training & Education-General		20.00
					Office Supplies-General		5.04
					Office Supplies-General		15.97
					Training & Education-General		525.00
					Employee Benefits-General		246.38
					Water QM Staff-General		114.57
					Office Supplies-General		45.00
					Employee Benefits-General		454.30
					Training & Education-General		170.00
					Training & Education-General		170.00
				4350-101-000	Training & Education-General		890.00
				4350-101-000	Training & Education-General		810.00
				4371-101-000	Communications & Marketing		80.00
				4530-101-000	Water QM Staff-General		85.10
02/18	70071	usb003	US Bank St. Paul	4700-585-000	Debt Service-Cert. of Participation	1,809.72	
02/18	70072	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	285.67	
02/18	70073	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	526.66	
02/18	70074	wea002	Weaver Elementary School	4370-101-000	Educational Program-General	133.20	
02/18	70075	wi1007	Patrick Williamson	4020-101-000	Employee Expense-General	102.95	
						\$796,261.01	-



Summary of Professional Engineering Services During the Period May 19, 2018 through June 22, 2018

BARR	l	Total Fees to			District	Plan Imple-
	Total Budget* (2018)	Date (2018)	Budget Balance (2018)	Fees During Period	Accounting Code	mentation Task Number
Engineering Administration General Engineering Administration	\$76,000.00	\$31,547.18	\$44,452.82	\$4,955.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$1,356.00	\$644.00	\$1,356.00	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$3,268.00	\$16,732.00	\$1,742.00	4698-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$29,349.44	\$25,650.56	\$3,738.00	4123-101	DW-13
Project Feasibility Studies	 I					L
Aquifer Recharge Site Search and Feasibility Study	\$15,000.00	\$0.00	\$15,000.00		4129-101	DW-10
Owasso County Park Stormwater Master Plan and Detailed	\$75,000.00	\$1,696.00	\$73,304.00		4129-101	DW-5
Design: Phase 1 and Phase 2 Beltline Resiliency and Phalen Chain Water Level Management	\$250,000.00	\$9,658.50	\$240.341.50	\$4,563.00	4129-101	BELT-3
Beaver Lake Subwatershed Feasibility Study	\$15,000.00	\$9,087.35	\$5,912.65	\$58.50	4129-101	BL-1
Owasso Lake Subwatershed Feasibility Study	\$15,000.00	\$9,272.35	\$5,727.65	\$1,353.50	4129-101	LO-3
Battle Creek Lake Subwatershed Feasibility Study	\$15,000.00	\$11,165.73	\$3,834.27	\$915.50	4129-101	BCL-3
Create an Emergency Response Plan for Twin Lake	\$15,000.00	\$2,306.50	\$12,693.50	\$1,682.00	4129-101	DW-19
Create an Emergency Response Plan for Grass Lake Create an Emergency Response Plan for Snail Lake	\$15,000.00 \$15,000.00	\$446.00	\$14,554.00	\$115.50	4129-101	DW-19 DW-19
Create an Emergency Reponse Plan for Lake Owasso	\$5,000.00	\$2,102.50 \$4,134.00	\$12,897.50 \$866.00	\$1,700.00 \$571.00	4129-101 4129-101	LO-2
FEMA Flood Mapping Update	\$100,000.00	\$0.00	\$100,000.00	407 1.00	4129-101	DW-9
West Vadnais Lake to East Vadnais Lake Water Quality Treatment	\$24,400.00	\$36,526.80	-\$12,126.80		4129-101	DW-9
West Vadnais Lake to East Vadnais Lake Gravity Flow	\$66,000.00	\$5,537.00	\$60,463.00	\$5,537.00	4129-101	DW-9
Snail Lake to Sucker Lake Reverse Pumping Evaluation	\$9,100.00	\$9,715.50	-\$615.50		4129-101	DW-9
Snail, Grass, and West Vadnais outlet permitting with the MnDNR	\$10,000.00	\$31,119.35	-\$21,119.35	\$1,779.08	4129-101	DW-9
Modeling of 95% Confidence Limit Atlas 14 District-wide (Climate Change Scenario); Flood Map Generation for Future Outreach	\$129,500.00	\$40,076.48	\$89,423.52	\$14,095.63	4129-101	DW-9
GIS Maintenance	<u> </u>					
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00		4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$238.50	\$9,761.50	\$175.50	4520-101	DW-2
Grass Lake WOMP station	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-3
Battle Creek longitudinal monitoring of TSS Auto Lake monitoring systems (5)	\$15,000.00 \$50,000.00	\$843.00 \$7,688.28	\$14,157.00 \$42,311.72	\$1,042.50	4520-101 4520-101	BC-3 DW-18
Maplewood Mall Monitoring	\$10,000.00	\$1,829.50	\$8,170.50	\$1,042.50	4520-101	DW-18 DW-12
Permit Processing, Inspection and Enforcement		<u>+,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				
Permit Application Inspection and Enforcement	\$15,000.00	\$3,155.00	\$11,845.00		4122-101	DW-7
Permit Application Review	\$50,000.00	\$19,302.50	\$30,697.50	\$7,224.00	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2018 Grant Applications	\$30,000.00	\$0.00	\$30,000.00		4661-101	
Tanners Flood Response Tool Model Update	\$3,000.00	\$2,232.00	\$768.00	\$378.00	4661-101	TaL-1
Evaluate water quality benefit of removing accumulated sediment from south end of Wakefield Lake to improve Lake Phalen water	\$10,000.00	\$4,028.70	\$5,971.30	\$3,306.70	4661-101	WL-5
quality	• • • • • • • • • • • • • • • • • • • •					
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$3,012.50	\$8,987.50	\$836.00	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$7,212.13	\$7,787.87	\$4,480.00	4695-101	DW-12
Project Operations						
2018 Tanners Alum Facility Monitoring	\$15,000.00	\$13,457.62	\$1,542.38	\$4,995.00	4650-101	TaL-3
Capital Improvements						
Wakefield Park/Frost Avenue Stormwater Project	\$25,000.00	\$21,878.43	\$3,121.57	\$8,278.50	4128-553	WL-1
Frost Kennard Spent Lime BMP	\$24,000.00	\$23,085.71	\$914.29	\$3,198.00	4128-550	WL-1
Commercial Sites Retrofit Projects 2018	\$55,000.00	\$12,367.95	\$42,632.05	\$7,545.50	4128-518	DW-6
School Sites Retrofit Projects 2018	\$55,000.00	\$14,079.23	\$40,920.77	\$5,473.80	4128-518	DW-6
Church Sites Retrofit Projects 2018 Roseville High School Campus Stormwater Retrofit (Bennett Lake	\$55,000.00	\$10,033.25	\$44,966.75	\$7,429.25	4128-518	DW-6
Subwatershed)	\$30,000.00	\$1,161.00	\$28,839.00		4128-518	DW-6
BMP Incentive Fund: General BMP Design Assistance and Review	\$30,000.00	\$29,961.40	\$38.60	\$7,664.40	4682-529	DW-6
BMP Incentive Fund: Faith-Based Organizations	\$20,000.00	\$918.00	\$19,082.00		4128-528	DW-6
Willow Pond CMAC Implementation	\$100,000.00	\$62,999.54	\$37,000.46	\$15,595.30	4128-554	BeL-4
Grass Lake Berm Construction Administration Phase 1 implementation from Owasso Basin Improvements	\$75,000.00	\$41,846.16	\$33,153.84	\$8,876.43	4128-520	GrL-1
Feasibility Study	\$75,000.00	\$8,887.50	\$66,112.50	\$2,707.50	4128-520	GC-3
District Office Solar Energy Retrofit	\$20,000.00	\$11,093.00	\$8,907.00	\$140.00	4128-519	DW-13
CIP Project Repair & Maintenance						
2017-2018 Beltline Repairs Construction Services	\$360,000.00	\$426,971.57	-\$66,971.57	\$4,938.49	4128-549	BELT-2
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$10,945.25	\$64,054.75	\$2,380.84	4128-516	DW-5
2018 CIP Maintenance and Repairs	\$90,000.00	\$75,450.80	\$14,549.20	\$5,953.00	4128-516	DW-5
2019 CIP Maintenance and Repairs	\$150,000.00	\$0.00	\$150,000.00		4128-516	DW-5
*For projects carried over from previous years, the total budget reflects the Subtota		get, and not just		\$147 896 92		

TOTAL PAYABLE FOR PERIOD 5/19/2018 - 6/22/2018

Subtotal

\$147,896.92

\$147,896.92 Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid.

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Bradley J. Lindaman, Vice President

2017 School Sites BMP Retrofits Progress Payment Number 6 - FINAL

1 Completed to Date:	\$175,606.72		
2 Less Previously Billed:		\$170,244.22	
3 Amount Completed This Period:			\$0.00
4 Amount Previously Retained:		\$8,465.71	
5 Amount Retained This Period (See Note 1):		\$0.00	
6 Total Amount Retained (See Note 2):		\$8,465.71	
7 Retainage Released Through This Period:			\$0.00
8 Less Total Retainage Remaining:			
9 Less Amounts Previously Paid:	\$175,606.72		
10 Amount Due This Estimate:			\$8,465.71

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Maximum amount is 5% of current Contract Price

SUBMITTED BY:

Name:	Ryan Sunram	Date:
Title:	President	
Contractor:	Sunram Constr Inc	

Signature:

RECOMMENDED BY:			
Name:	Matt Kumka	Date:	6/4/2018
Title:	Project Manager		
Engineer:	Barr Engineering Com	pany	
	1.1		
Signature:	then		
APPROVED BY:			
Name:	Marj Ebensteiner	Date:	7/11/2018
Title:	President		
Owner:	Ramsey-Washington M	Metro Watershed	District

Signature:

Total Comple	eted Through	h This Period	Total Comple	eted Through	This Period	Total Comple	eted Through	n This Period	Total Compl	eted Through	This Period	Total Compl	eted Throug	h This Period	Total Comple	eted Throug	h This Period
	Invoice #1			Invoice #2			Invoice #3			Invoice #4			Invoice #5			Invoice #6	
	Actual			Actual			Actual			Actual			Actual			Actual	
Unit Price	Quantity	Extension	Unit Price	Quantity	Extension	Unit Price	Quantity	Extension	Unit Price	Quantity	Extension	Unit Price	Quantity	Extension	Unit Price	Quantity	Extension
\$3,400.85	1	\$3,400.85	\$3 <i>,</i> 400.85	0	\$0.00	\$3 <i>,</i> 400.85	0	\$0.00	\$3,400.85	0	\$0.00	\$3,400.85	0	\$0.00	\$3,400.85	0	\$0.00
\$22.50	23	\$517.50	\$22.50	0	\$0.00	\$22.50	0	\$0.00		0	\$0.00	\$22.50	0	\$0.00	\$22.50	0	\$0.00
\$1.30	268	\$348.40	\$1.30	0	\$0.00	\$1.30	0	\$0.00	\$1.30	0	\$0.00		0	\$0.00	\$1.30	0	\$0.00
				0	\$0.00		0	\$0.00		0	\$0.00		0	\$0.00		0	\$0.00
\$20.60	179	\$3,687.40	\$20.60	84	\$1,730.40	\$20.60	0	\$0.00	\$20.60	0	\$0.00	\$20.60	0	\$0.00	\$20.60	0	\$0.00
\$1,100.00	1	\$1,100.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00
		. ,	. ,			. ,			,								
\$0.45	223	\$100.35	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00
\$51.00	25	\$1,275.00	\$51.00	12	\$612.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00
\$60.00	72	\$4,290.00	\$60.00	11	\$630.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00
		. ,	,		,										,		
\$45.00	9	\$405.00	\$45.00	1	\$45.00	\$45.00	0	\$0.00	\$45.00	5	\$225.00	\$45.00	0	\$0.00	\$45.00	0	\$0.00
\$1,700.00	2	\$3,400.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00
\$34.00	194	\$6,596.00	\$34.00	0	\$0.00	\$34.00	0	\$0.00	\$34.00	0	\$0.00	\$34.00	0	\$0.00	\$34.00	0	\$0.00
\$10.50	61	\$640.50		0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00
\$10.50	01	\$040.50	\$10.50	0	\$0.00	\$10.50	0	Ş0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00
\$13.50	11	\$148.50	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00
\$265.00	0	\$0.00	\$265.00	0	\$0.00	\$265.00	0	\$0.00	\$265.00	2	\$530.00	\$265.00	0	\$0.00	\$265.00	0	\$0.00
\$640.00	1	\$640.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00
\$150.00	1	\$150.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00
\$9.50	0	\$0.00			\$1,168.50	\$9.50	0	\$0.00		0	\$0.00		0	\$0.00	\$9.50	0	\$0.00
\$7.50	0	\$0.00			\$0.00	\$7.50	0	\$0.00		0	\$0.00		75	\$562.50	\$7.50	0	\$0.00
\$310.00	0	\$0.00		0	\$0.00	\$310.00	0	\$0.00		2	\$620.00		0	\$0.00	\$310.00	0	\$0.00
\$10.00	0	\$0.00	\$10.00	0	\$0.00	\$10.00	0	\$0.00		377	\$3,770.00	\$10.00	0	\$0.00	\$10.00	0	\$0.00
			,		,	,		,					-	,		-	
\$27.00	0	\$0.00	\$27.00	0	\$0.00	\$27.00	0	\$0.00	\$27.00	11	\$297.00	\$27.00	0	\$0.00	\$27.00	0	\$0.00
TOTAL		\$26,699.50	TOTAL		\$4,185.90	TOTAL		\$0.00	TOTAL		\$5,442.00	TOTAL		\$562.50	TOTAL		\$0.00

-	Woodbury Elementai Roseville Contract Amount	ry		Total Comple	-	n This Period	Total Complet	-	n This Period	Total Comple	-	This Period	Total Comple	-	This Period	Total Comple	-	This Period	Total Com	-	ugh This Period
Base Bid	Items		Fatimatad		Invoice #1			Invoice #2	1		Invoice #3		I	Invoice #4		I	Invoice #5	1	Invoice #6		·
ltem	Description	Unit	Estimated Quantity	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension
	Mobilization/Demobilization/Traffic		1	ćr. 025. 25	1	ćr. 005.05	és 025 25	0	ćo oo	ćr 025 25	0	ć0.00	ćr. 025. 25	0	¢0.00	¢5,025,25	0	ć0.00	¢5,025,25	0	¢0.00
A	Control/Erosion Control Remove Concrete Curb and Gutter	L.S. L.F.	1	\$5,825.35 \$22.50	1	\$5,825.35 \$360.00	\$5,825.35 \$22.50	0	\$0.00 \$0.00		0	\$0.00 \$0.00	\$5,825.35 \$22.50	0	\$0.00 \$0.00	\$5,825.35 \$22.50	0	\$0.00 \$0.00	\$5,825.35 \$22.50	0	\$0.00 \$0.00
	Remove Concrete Apron	Each	10	\$750.00	10	\$750.00	\$750.00	0	\$0.00		0	\$0.00	\$750.00	0	\$0.00 \$0.00	\$750.00	0	\$0.00	\$750.00	0	\$0.00
	Remove Draintile	L.S.	1	\$750.00	1	\$750.00	\$750.00	0	\$0.00		0	\$0.00	\$750.00	0	\$0.00	\$750.00	0	\$0.00	\$750.00	0	\$0.00
	Remove Sod	S.Y.	1396	\$1.30	1396	\$1,814.80	\$1.30	0	\$0.00		0	\$0.00	\$1.30	0	\$0.00	\$1.30	0	\$0.00	\$1.30	0	\$0.00
I	Remove Tree (Greater than 6" DBH)	Each	2	\$500.00	2	\$1,000.00	\$500.00	0	\$0.00	\$500.00	0	\$0.00	\$500.00	0	\$0.00	\$500.00	0	\$0.00	\$500.00	0	\$0.00
L	Excavate, Haul, and Dispose	C.Y.	1033	\$18.00	1033	\$18,594.00	\$18.00	265.5	\$4,779.00	\$18.00	168.89	\$3,040.02	\$18.00	0	\$0.00	\$18.00	0	\$0.00	\$18.00	0	\$0.00
М	Grading	L.S.	1	\$1,100.00	1	\$1,100.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00
N	Soil Loosening	S.Y.	763	\$0.45	763	\$343.35	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00
	Clean Sand	C.Y.	77	\$51.00	51	\$2,601.00	\$51.00	0	\$0.00		0	\$0.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00 \$0.00
Р	Planting Soil (12" depth- 75% Sand, 25% Leaf compost- MnDOT Grade II)	C.Y.	333	\$60.00	354	\$21,240.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00
	Twice-Shredded Hardwood Mulch (3"																				
Q	depth)	C.Y.	116	\$45.00	58	\$2,610.00	\$45.00	12	\$540.00	\$45.00	0	\$0.00	\$45.00	60	\$2,700.00	\$45.00	0	\$0.00	\$45.00	0	\$0.00
	Rip Rap	Ton	6	\$95.00	6	\$570.00	\$95.00	0	\$0.00	\$95.00	2.64	\$250.80	\$95.00	0	\$0.00	\$95.00	0	\$0.00	\$95.00	0	\$0.00
Т	Concrete Curb & Gutter	L.F.	8	\$42.00	8	\$336.00	\$42.00	0	\$0.00	\$42.00	0	\$0.00	\$42.00	0	\$0.00	\$42.00	0	\$0.00	\$42.00	0	\$0.00
	Concrete Curb Cut & Small Splash Block Assembly 4" Perforated (CPEP) Draintile w/o sock	Each	1	\$1,700.00	1	\$1,700.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00
х	(Underdrain)	L.F.	232	\$10.50	232	\$2,436.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00
Y	4" Solid (CPEP) Draintile w/o sock (Underdrain)	L.F.	9	\$13.50	10	\$135.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00
Z	Draintile Clean Out	Each	1	\$265.00	0	\$0.00	\$265.00	0	\$0.00	\$265.00	0	\$0.00	\$265.00	4	\$1,060.00	\$265.00	0	\$0.00	\$265.00	0	\$0.00
AA	Connect Draintile to Catch Basin	Each	2	\$640.00	2	\$1,280.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00
	Inlet Protection	Each	2	\$150.00	2	\$300.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00
BB	Edging	L.F.	661	\$9.50	0	\$0.00	\$9.50	496	\$4,712.00		0	\$0.00	\$9.50	58	\$551.00	\$9.50	0	\$0.00	\$9.50	0	\$0.00
	Sod	S.Y.	12	\$10.00	0	\$0.00	\$10.00	0	\$0.00		0	\$0.00	\$10.00	0	\$0.00	\$10.00	480	\$4,800.00	\$10.00	0	\$0.00
#N/A	#1 Cont. Perennial or Shrub (Furnish)	Each	803	\$17.30	0	\$0.00	\$17.30	0	\$0.00	\$17.30	0	\$0.00	\$17.30	625	\$10,812.50	\$17.30	0	\$0.00	\$17.30	0	\$0.00
DD	#1 Cont. Perennial or Shrub (Furnish & Install)	Each	625	\$10.00	0	\$0.00	\$10.00	0	\$0.00	\$10.00	0	\$0.00	\$10.00	803	\$8,030.00	\$10.00	0	\$0.00	\$10.00	0	\$0.00
	1.5" B&B Tree	Each	5	\$310.00	0	\$0.00	\$310.00	0	\$0.00		0	\$0.00	\$310.00	5	\$1,550.00	\$310.00	0	\$0.00	\$310.00	0	\$0.00
	#2 Cont. Shrub (Furnish & Install)	Each	58	\$40.00	0	\$0.00	\$40.00	0	\$0.00		0	\$0.00	\$40.00	0	\$0.00	\$40.00	0	\$0.00	\$40.00	0	\$0.00
			SUBTOTAL	TOTAL		\$63,745.50	TOTAL		\$10,031.00	TOTAL		\$3,290.82	TOTAL		\$24,703.50	TOTAL		\$4,800.00	TOTAL		\$0.00

Roseville Middle Schoo Roseville Contract Amount	ol		Total Compl	eted Throug	n This Period	Total Compl	eted Through	This Period	Total Compl	eted Through	n This Period	Total Comple	eted Throug	n This Period	Total Comple	eted Throug	n This Period	Total Compl	eted Throug	gh This Period
Base Bid Items				Invoice #1			Invoice #2			Invoice #3	1		Invoice #4		T	Invoice #5	1		Invoice #6	
Item Description	Unit	Estimated Quantity	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension	Unit Price	Actual Quantity	Extension
Mobilization/Demobilization/Traffic	01110	Quantity		Quantity	LAtension	<u>entrite</u>	Quantity	Extension		Quantity			quantity			Quantity			Quantity	
A Control/Erosion Control	L.S.	1	\$2,050.70	1	\$2,050.70	\$2,050.70	0	\$0.00	\$2,050.70	0	\$0.00	\$2,050.70	0	\$0.00	\$2,050.70	0	\$0.00	\$2,050.70	0	\$0.00
D Remove Concrete Curb and Gutter	L.F.	8	\$22.50	8	\$180.00	\$22.50	0	\$0.00	\$22.50	0	\$0.00	\$22.50	0	\$0.00	\$22.50	0	\$0.00	\$22.50	0	\$0.00
H Remove Sod	S.Y.	405	\$1.30	405	\$526.50	\$1.30	0	\$0.00	\$1.30	0	\$0.00	\$1.30	0	\$0.00	\$1.30	0	\$0.00	\$1.30	0	\$0.00
I Remove Tree (Greater than 6" DBH)	Each	2	\$300.00	2	\$600.00	\$300.00	0	\$0.00	\$300.00	0	\$0.00	\$300.00	0	\$0.00	\$300.00	0	\$0.00	\$300.00	0	\$0.00
L Excavate, Haul, and Dispose	C.Y.	175	\$20.60	175	\$3,605.00	\$20.60	120	\$2,472.00	\$20.60	0	\$0.00	\$20.60	0	\$0.00	\$20.60	0	\$0.00	\$20.60	0	\$0.00
M Grading	L.S.	1	\$1,100.00	1	\$1,100.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00	\$1,100.00	0	\$0.00
N Soil Loosening	S.Y.	52	\$0.45	52	\$23.40	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00	\$0.45	0	\$0.00
O Clean Sand	C.Y.	17	\$51.00	25	\$1,275.00	\$51.00	12	\$612.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00	\$51.00	0	\$0.00
Planting Soil (12" depth- 75% Sand, 25% P Leaf compost- MnDOT Grade II)	C.Y.	15	\$60.00	72	\$4,290.00	\$60.00	10.5	\$630.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00	\$60.00	0	\$0.00
Twice-Shredded Hardwood Mulch (3"																				
Q depth)	C.Y.	34	\$45.00	17	\$765.00	\$45.00	0	\$0.00	\$45.00	0	\$0.00	\$45.00	9	\$405.00	\$45.00	0	\$0.00	\$45.00	0	\$0.00
Concrete Curb Cut & Small Splash Block U.1 Assembly	Each	1	\$1,700.00	1	\$1,700.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00	\$1,700.00	0	\$0.00
4" Perforated (CPEP) Draintile w/o sock X (Underdrain)	L.F.	72	\$10.50	70	\$735.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00	\$10.50	0	\$0.00
4" Solid (CPEP) Draintile w/o sock																				
Y (Underdrain)	L.F.	14	\$13.50	14	\$189.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00	\$13.50	0	\$0.00
Z Draintile Clean Out	Each	1	\$265.00	0	\$0.00	\$265.00	0	\$0.00	\$265.00	0	\$0.00	\$265.00	2	\$530.00	\$265.00	0	\$0.00	\$265.00	0	\$0.00
AA Connect Draintile to Catch Basin	Each	1	\$640.00	1	\$640.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00	\$640.00	0	\$0.00
6" Sediment Log	L.F.	60	\$4.00	60	\$240.00	\$4.00	0	\$0.00	\$4.00	0	\$0.00	\$4.00	0	\$0.00	\$4.00	0	\$0.00	\$4.00	0	\$0.00
Inlet Protection	Each	2	\$150.00	2	\$300.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00	\$150.00	0	\$0.00
BB Edging	L.F.	56	\$9.50	0	\$0.00	\$9.50	56	\$532.00	\$9.50	0	\$0.00	\$9.50	0	\$0.00	\$9.50	0	\$0.00	\$9.50	0	\$0.00
#1 Cont. Perennial or Shrub (Furnish & DD Install)	Each	509	\$17.30	0	\$0.00	\$17.30	0	\$0.00	\$17.30	0	\$0.00	\$17.30	139	\$2,404.70	\$17.30	0	\$0.00	\$17.30	0	\$0.00
#1 Cont. Perennial or Shrub (Furnish)	Each	430	\$17.30	0	\$0.00	\$17.30	0	\$0.00	\$17.30	0	\$0.00	\$10.00	430	\$4,300.00	\$10.00	0	\$0.00	\$10.00	0	\$0.00
EE #2 Cont. Shrub (Furnish & Install)	Each	29	\$38.30	0	\$0.00	\$38.30	0	\$0.00	\$38.30	0	\$0.00	\$38.30	29	\$1,110.70	\$38.30	0	\$0.00	\$38.30	0	\$0.00
#N/A 1.5" B&B Tree	Each	3	\$310.00	0	\$0.00	\$310.00	0	\$0.00	\$310.00	0	\$0.00	\$310.00	3	\$930.00	\$310.00	0	\$0.00	\$310.00	0	\$0.00
		-					-						-			-	•			
I		SUBTOTAL	TOTAL		\$18,219.60	TOTAL		\$4,246.00	TOTAL		\$0.00	TOTAL		\$9,680.40	TOTAL		\$0.00	TOTAL		\$0.00

Frost/Kennard Stormwater Filter Progress Payment Number 2

1.0	Total Completed Through This Period:	\$260,519.00		
2.0	Total Completed Previously Completed:		\$243,060.00	
3.0	Total Completed This Period:			\$17,459.00
4.0	Amount Previously Retained:		\$12,856.00	
5.0	Amount Retained This Period (See Note 1):			\$0.00
6.0	Total Amount Retained (See Note 2):		\$12,856.00	
7.0	Retainage Released Through This Period:			\$0.00
8.0	Total Retainage Remaining:		\$12,856.00	
9.0	Amounts Previously Paid:	\$230,204.00		
10.0	Amount Due This Estimate:			\$17,459.00

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Maximum amount is 5% of current Contract Price (\$257,127.00)

SUBMITTED BY:

Name:	Aaron Hoefs	Date:
Title:	Project Manager	
Contractor:	Minger Construction Companies	s, Inc.
Signature:		
RECOMMENDED BY	:	
Name:	Brad Lindaman	Date:
Title:	District Engineer	
Engineer:	Barr Engineering Company	
Signature:		
APPROVED BY:		
Name:	Marj Ebensteiner	Date:
Title:	President	
Owner:	Ramsey-Washington Metro Wat	ershed District
Signature:		

Frost/Kennard Stormwater Filter Ramsey-Washington Metro Watershed District Summary of Work Completed Through June 26, 2018 for Progress Payment Number 2

							· ·		ompleted eriod	(3) Total Co This Period	mpleted
1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	L.S.	1	27,500.00	27,500.00	1	\$27,500.00	1	\$27,500.00	0	\$0.00
В	Erosion Control Construction Entrance	Each	1	1,000.00	1,000.00	1	\$1,000.00	1	\$1,000.00	0	\$0.00
С	Erosion Control Silt Fence	L.F.	600	1.80	1,080.00	600	\$1,080.00	600	\$1,080.00	0	\$0.00
D	Erosion Control Blanket	S.Y.	1,070	1.20	1,284.00	1070	\$1,284.00	0	\$0.00	1070	\$1,284.00
Е	Remove & Salvage Topsoil (P)	S.Y.	980	2.00	1,960.00	980	\$1,960.00	980	\$1,960.00	0	\$0.00
F	Sawcut and Remove Concrete Curb from Existing B618 Concrete Curb and Gutter for Drive Opening	L.S.	1	1,500.00	1,500.00	1	\$1,500.00	1	\$1,500.00	0	\$0.00
G	96-inch Precast Manhole with Casting	L.F.	14	1,700.00	23,800.00	14	\$23,800.00	14	\$23,800.00	0	\$0.00
Η	48-inch Precast Manhole with Casting	L.F.	11	500.00	5,500.00	11	\$5,500.00	11	\$5,500.00	0	\$0.00
Ι	8-ft wide, Precast Concrete and FRP Stop Log Weir	L.S.	1	20,000.00	20,000.00	1	\$20,000.00	1	\$20,000.00	0	\$0.00
J	27-inch Access Manhole with Casting Assembly	Each	4	850.00	3,400.00	4	\$3,400.00	4	\$3,400.00	0	\$0.00
K	Common Excavation for Vault (P)	C.Y.	950	15.00	14,250.00	950	\$14,250.00	950	\$14,250.00	0	\$0.00
L	Disposal of Excess Excavated Material (P)	C.Y.	350	15.00	5,250.00	350	\$5,250.00	350	\$5,250.00	0	\$0.00
М	Existing Structure Connection	Each	1	4,000.00	4,000.00	1	\$4,000.00	1	\$4,000.00	0	\$0.00
N	10-inch Ductile Iron Pipe (DIP)	L.F.	20	95.00	1,900.00	20	\$1,900.00	20	\$1,900.00	0	\$0.00
0	12-inch Corrugated Polyethylene Pipe (CPEP) Dual-Wall (Smooth Interior)	L.F.	145	86.00	12,470.00	145	\$12,470.00	145	\$12,470.00	0	\$0.00
Р	12-inch CPEP 22.5 Degree Bend	Each	2	75.00	150.00	3	\$225.00	3	\$225.00	0	\$0.00
Q	Stormwater Filter Piping and Fittings, All Complete	L.S.	1	13,000.00	13,000.00	1	\$13,000.00	1	\$13,000.00	0	\$0.00
R	Concrete Fore bay	Each	1	2,400.00	2,400.00	1	\$2,400.00	1	\$2,400.00	0	\$0.00
S	Anchor Underdrain Pipe to Vault	L.S.	1	5,500.00	5,500.00	1	\$5,500.00	1	\$5,500.00	0	\$0.00
Т	10-inch Stainless Steel Plug Valve w/Box ASM	Each	1	3,500.00	3,500.00	1	\$3,500.00	0	\$0.00	1	\$3,500.00
U	Fine Filter Aggregate	Ton	18	75.00	1,350.00	18	\$1,350.00	18	\$1,350.00	0	\$0.00
V	Plastic Netting	S.Y.	75	13.00	975.00	75	\$975.00	75	\$975.00	0	\$0.00
W	Spent Lime	L.S.	1	4,600.00	4,600.00	1	\$4,600.00	1	\$4,600.00	0	\$0.00
Х	Precast 3-sided Box Culvert Vault & Cover (6 Sections)	L.S.	1	73,000.00	73,000.00	1	\$73,000.00	1	\$73,000.00	0	\$0.00
Y	Precast End Walls (2 Sides)	L.S.	1	12,000.00	12,000.00	1	\$12,000.00	1	\$12,000.00	0	\$0.00
Z	Non-Shrink Grouting	C.Y.	7	200.00	1,340.00	7	\$1,400.00	7	\$1,400.00	0	\$0.00
AA	Ladder	L.S.	2	2,500.00	5,000.00	2	\$5,000.00	2	\$5,000.00	0	\$0.00
AB	Netlon Stabilizing Mesh Bales for Stabilized Turf Driveway	Each	5	500.00	2,500.00	7	\$3,500.00	0	\$0.00	7	\$3,500.00
AC	Special Planting Soil Mix for Netlon Turf Driveway	C.Y.	25	130.00	3,250.00	50	\$6,500.00	0	\$0.00	50	\$6,500.00
AD	Import Common Topsoil Borrow	C.Y.	50	15.00	750.00	θ	\$0.00	0	\$0.00	0	\$0.00
AE	Seeding	S.Y.	1,070	2.50	2,675.00	1070	\$2,675.00	0	\$0.00	1070	\$2,675.00
AF	Seed Mix (Mn/DOT 25-131 Low Maintenance Turf)	LBS	49	5.00	243.00	θ	\$0.00	0	\$0.00	0	\$0.00
Charge O	and and a second se		Total of F	Extensions =	\$ 257,127.00		\$260,519.00		\$243,060.00		\$17,459.00
Change O	Contract Completion Extension	1			0.00	0	\$0.00	0	\$0.00	0	\$0.00
C.O.1A C.O.2A	CheckMate UltraFlex Inline Valve	Each	1	3.300.00	3,300.00	0	\$0.00	0			\$0.00 \$0.00
C.O.2A		Each	1	3,300.00	3,500.00	0	\$0.00	0	\$0.00	0	\$0.00

GRAND TOTALS	\$260.519.00	\$243.060.00	\$17.459.00

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 June 28, 2018 File No: 9M

General Account

Grass Lake Emergency Project

2018 CIP

Balance \$1,930.00

\$500.00

\$180.00

\$2,610.00

Permit Program *******

Permit Application Coversheet

Date	July 11	, 2018			
Project	t Name	Trails E	dge Apartments	Project Number	18-13
Applica	ant Nan	ne Jim I	llies, Jr., CV2-INH Maplewood, LLC		
Type o	f Develo	opment	Residential		

Property Description

This project is located at the southeast corner of County Road D and Country View Drive in the City of Maplewood. The applicant is proposing to construct a 153-unit apartment building with associated parking and drive areas. The total site area is approximately 5 acres. Volume reduction and rate control will be achieved through expansion of an existing filtration basin and construction of an underground stormwater reuse system. The existing filtration basin was originally constructed when the Maplewood Costco was built (permit #07-14). At the time, the basin was oversized to treat future development. Since the District's volume reduction rules have changed, the basin will be expanded during this project to meet the current required volume for both properties. The underground stormwater reuse system will receive runoff from portions of the roof and parking lot of the apartment building. Rainwater collected will be used for irrigation.

Watershed District Policies or Standards Involved:

□ Wetlands

- ✓ Erosion and Sediment Control
- Stormwater Management
- Floodplain

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

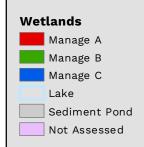
Staff recommends approval of this permit with the special provisions.

Attachments:

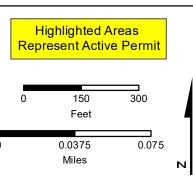
- ✓ Project Location Map
- ✓ Project Grading Plan

#18-13 Trails Edge Apartments





RWMWD Boundary Flow Arrows Major Flow Arrows Subwatersheds Creeks Permits Ramsey Co Parcels City Boundaries





18-13

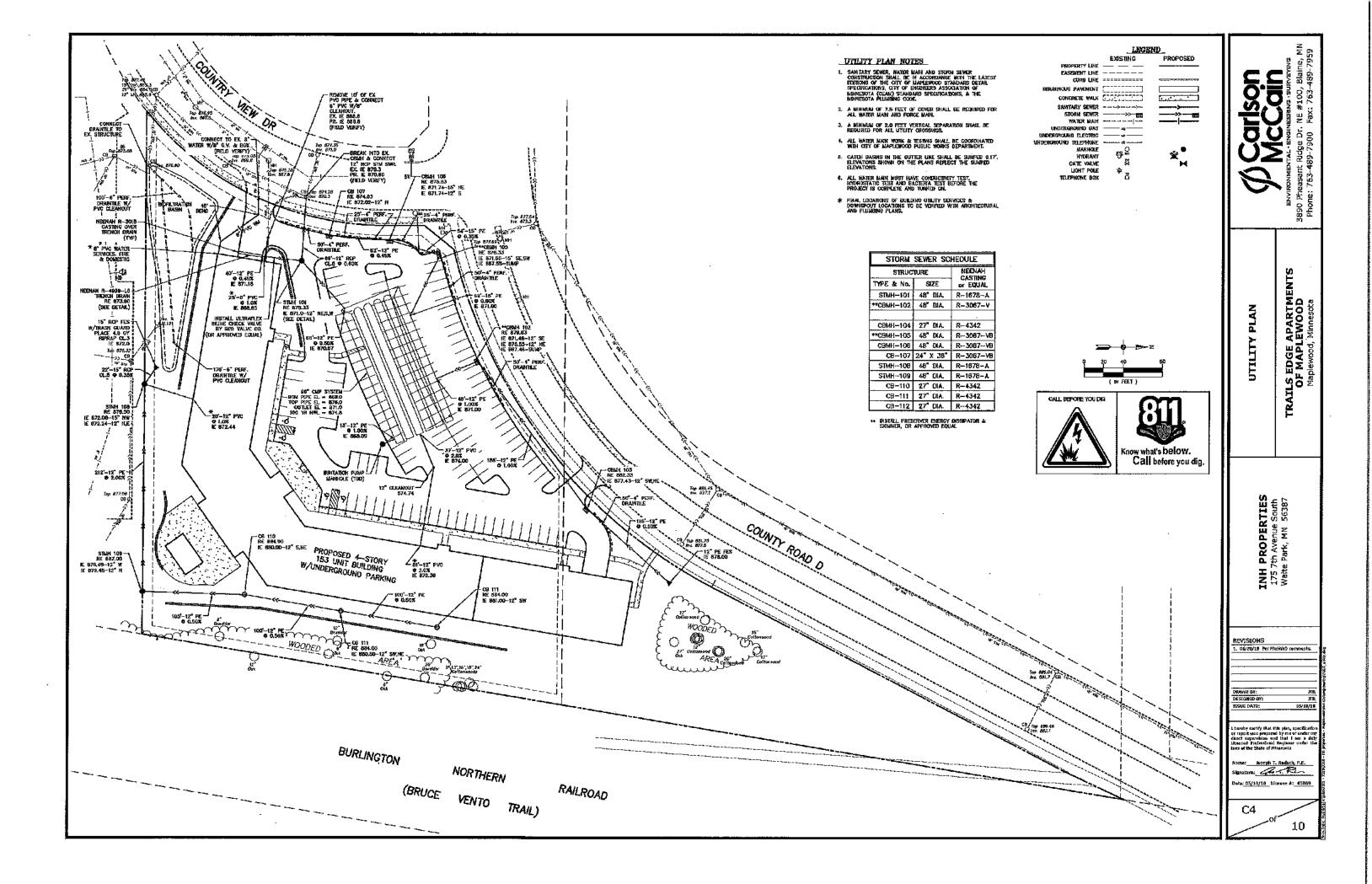
Special Provisions

1. The applicant shall submit the escrow fee of \$21,500.

2. The applicant shall submit an executed joint maintenance agreement with the City of Maplewood for the proposed stormwater facilities.

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 Phase 2 Construction Permit.



Permit Application Coversheet

Date July 11, 20	018			
Project Name 36	55 S Owasso Blvd		Project Number	18-14
Applicant Name	Tracy Pumper, Yo	our Home Construction, Inc.		
Type of Developn	nent <u>Residential</u>			
Property Descript				
Lake Owasso. The lakeshore. The pr elevation of 889', accommodate the of 20 cubic yards been provided to	e applicant is prop oposed storage st but an existing ar e project and DNR of fill below the I ensure there is no	n Owasso Boulevard, an exis posing to reconstruct an exis cructure will be outside of the trificial channel below 889' v requirements. The channel District floodplain elevation. to loss of floodplain storage. d Sediment Control does no	sting structure near ne District's flood will be filled in to fill will result in t Compensatory st Due to the small	ar the olain the placement torage has
Watershed Distri	ct Policies or Stan	dards Involved:		
Wetlands		Erosion and Sediment	Control	
Stormwater	Management	Floodplain		
Water Quantity C There are no wat	considerations er quantity consid	erations.		
Water Quality Co Short Term	nsiderations			
There are no sho	rt term water qual	lity considerations.		
Long Term				
There are no long				
	g term water quali	ty considerations.		

Staff Recommendation

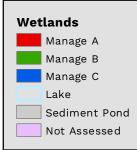
Staff recommends approval of this permit

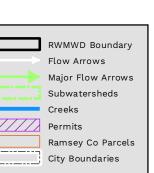
Attachments:

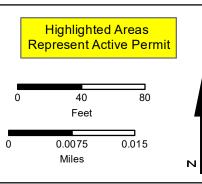
- \checkmark Project Location Map
- ✓ Project Grading Plan

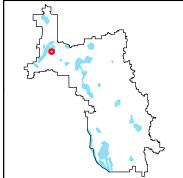
#18-14 365 S Owasso Blvd







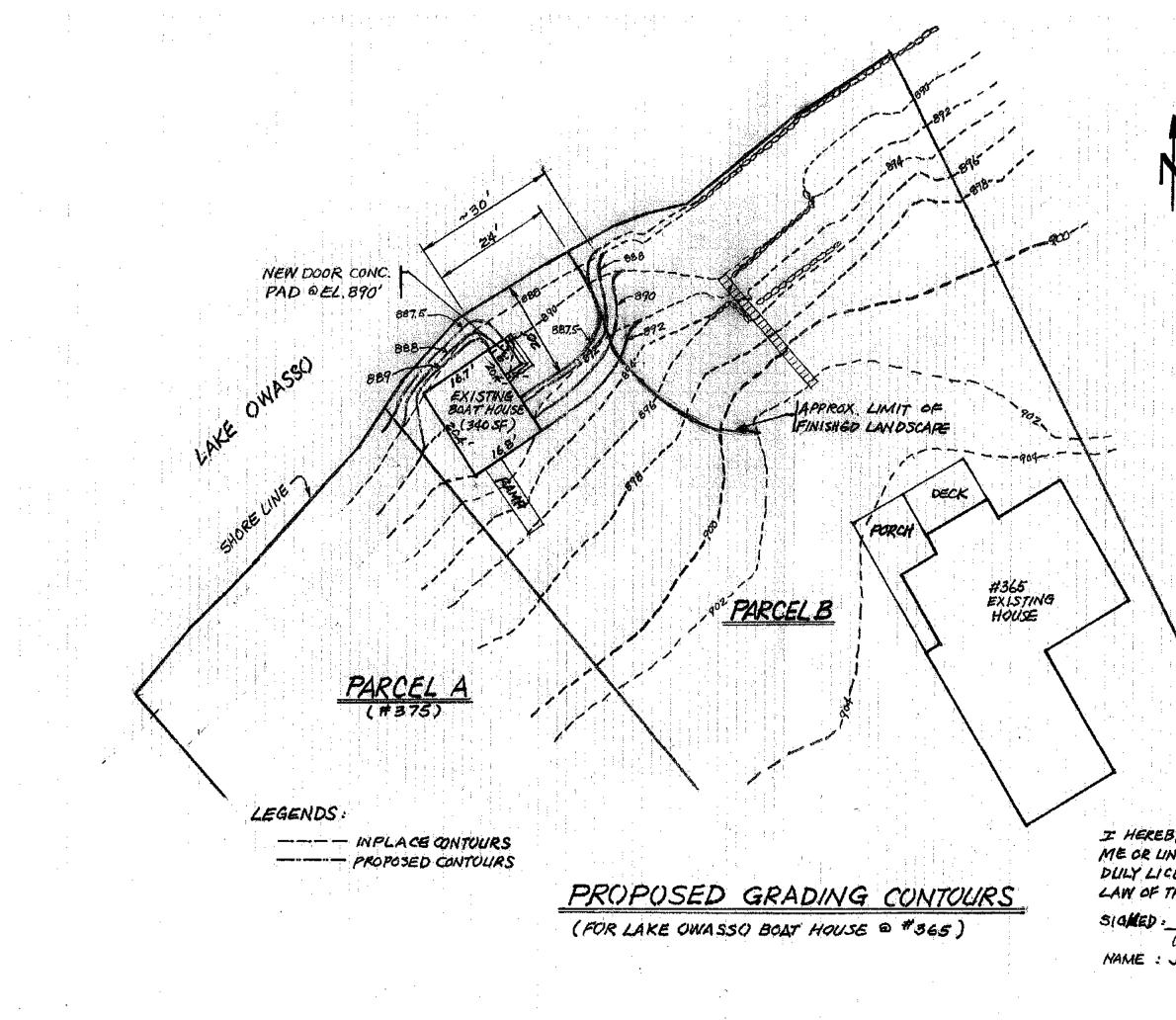




18-14

Special Provisions

None



NOTES : 1. TOTAL PROPOSED SPACE BELOW FLOOD ELEV. 889' TO BE APPROXIMATELY 24 C.Y. 2. TOTAL AREA FOR THE PROPOSED GRADING WORK TO BE AROUND 840 SF. 3. THE YOLUME OF FILL INSIDE THE BOAT HOUSE TO THE SHORE LINE UP TO THE REQUIRED FLOOD ELEVATION AT 889' IS ESTIMATED AT ABOUT ZO C.Y. THE EXCAVATED SOIL FROM THIS GRADING WORK TO BE USED FOR THIS FILL WORK, I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAW OF THE STATE OF MINNESOTA.

SIGHED : Chilalana 1 NAME : JIHSHYA J. LIN

DATE: 6/25/18

LIC. NO.: 19/15



Permit Application Coversheet

Date July 11, 2018	
Project Name Hy-Vee Gem Lake	Project Number 18-15
Applicant NameJeff Stein, Hy-Vee, Inc.	
Type of Development Commercial/Retail	

Property Description

This project is located at 3583 Hoffman Road on the southeast corner of Highway 61 and County Road E in the City of Gem Lake. The applicant is proposing to construct a Hy-Vee grocery store with associated parking. The proposed project will result in a reduction in impervious area over existing conditions. Volume reduction will be achieved through construction of two filtration basins and an underground filtration system. Pretreatment will include sumped manholes, an oil-water separator, and an isolator row.

Watershed District Policies or Standards Involved:

□ Wetlands

Erosion and Sediment Control

🗹 Stormwater Management 🛛 🗆 Floodplain

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.

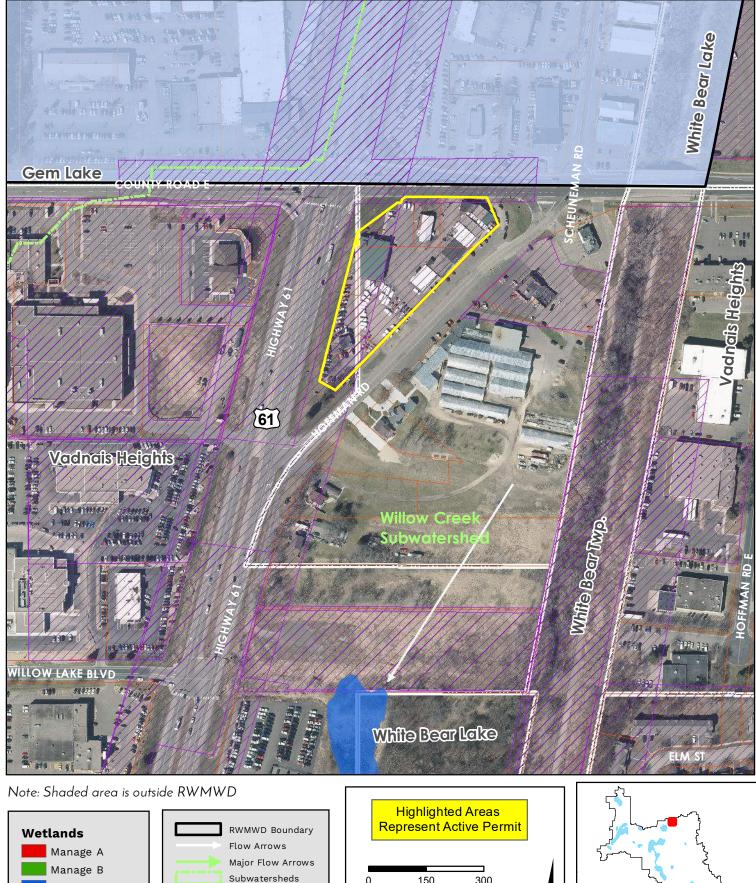
Staff Recommendation

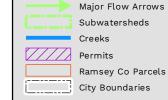
Staff recommends approval of this permit with the special provisions.

Attachments:

- ✓ Project Location Map
- ✓ Project Grading Plan

#18-15 Hy-Vee Gem Lake



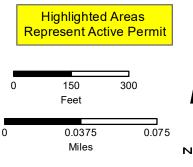


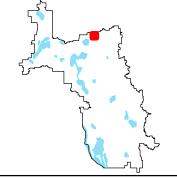
Manage C

Sediment Pond

Not Assessed

Lake





18-15

Special Provisions

1. The applicant shall submit the escrow fee of \$11,700.

2. The applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP) for the project.

3. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the SWPPP.

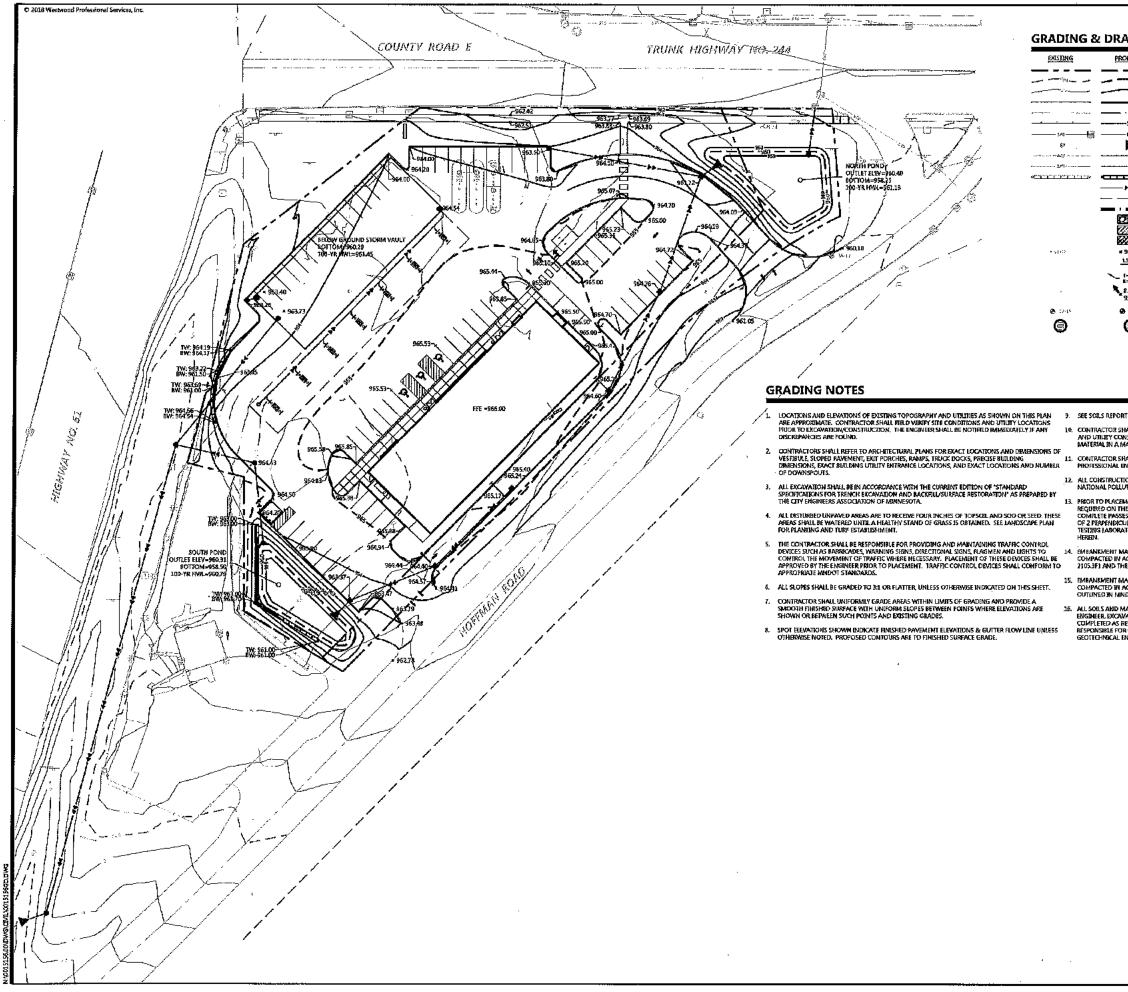
4. The applicant shall add a note to the plans to notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning any and all construction activity for an initial SWPPP inspection.

5. The applicant shall add a note to the plans that the specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.

6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Phase 2 Construction Permit.

7. The applicant shall submit an executed maintenance agreement for the proposed stormwater facilities.

8. The applicant shall submit a final copy of the signed construction plans.



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Permit Application Coversheet

Date July 11, 2018			
Project Name Little	Canada Elementary Addition	Project Number	18-16
Applicant Name Too	ld Lieser, ISD 623		
Type of Development	Institutional		

Property Description

This project is located at 400 Eli Road in the City of Little Canada. The applicant is proposing to construct an addition to the existing Little Canada Elementary school along with sidewalk reconstruction and associated utilities. The total site area is 1.28 acres. Volume reduction and rate control will be achieved through construction of a filtration basin. Filtration is being proposed due to poor soils. Pretreatment will include a sumped inlet.

Watershed District Policies or Standards Involved:

□ Wetlands

Erosion and Sediment Control

☑ Stormwater Management □ Floodplain

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.

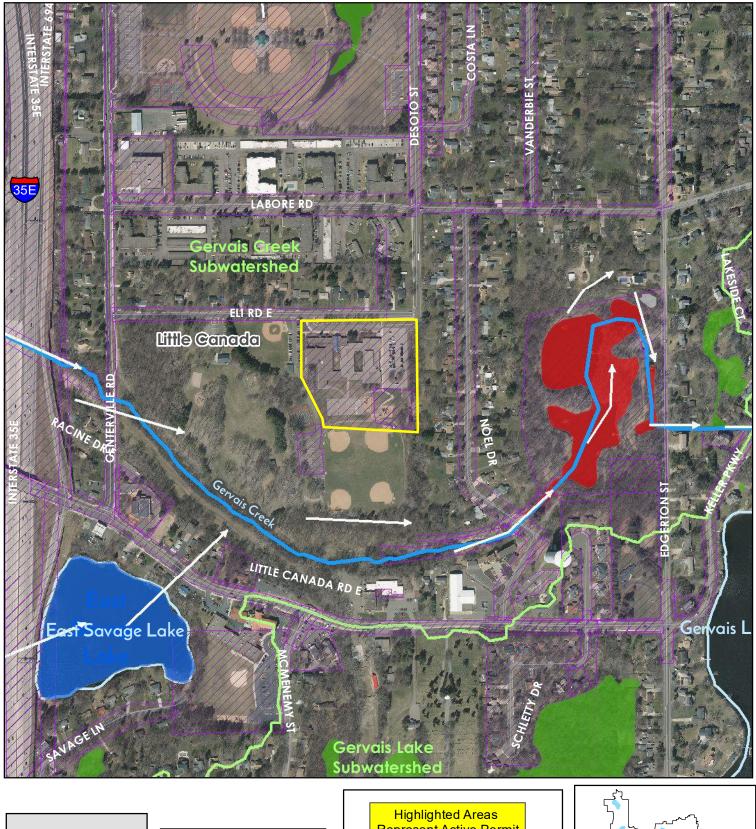
Staff Recommendation

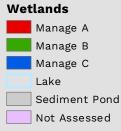
Staff recommends approval of this permit with the special provisions.

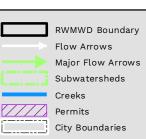
Attachments:

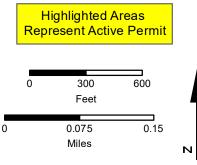
- Project Location Map
- ✓ Project Grading Plan

#18-16 Little Canada Elementary Addition











18-16

Special Provisions

1. The applicant shall submit a revised narrative that confirms there are no wetland impacts associated with the project.

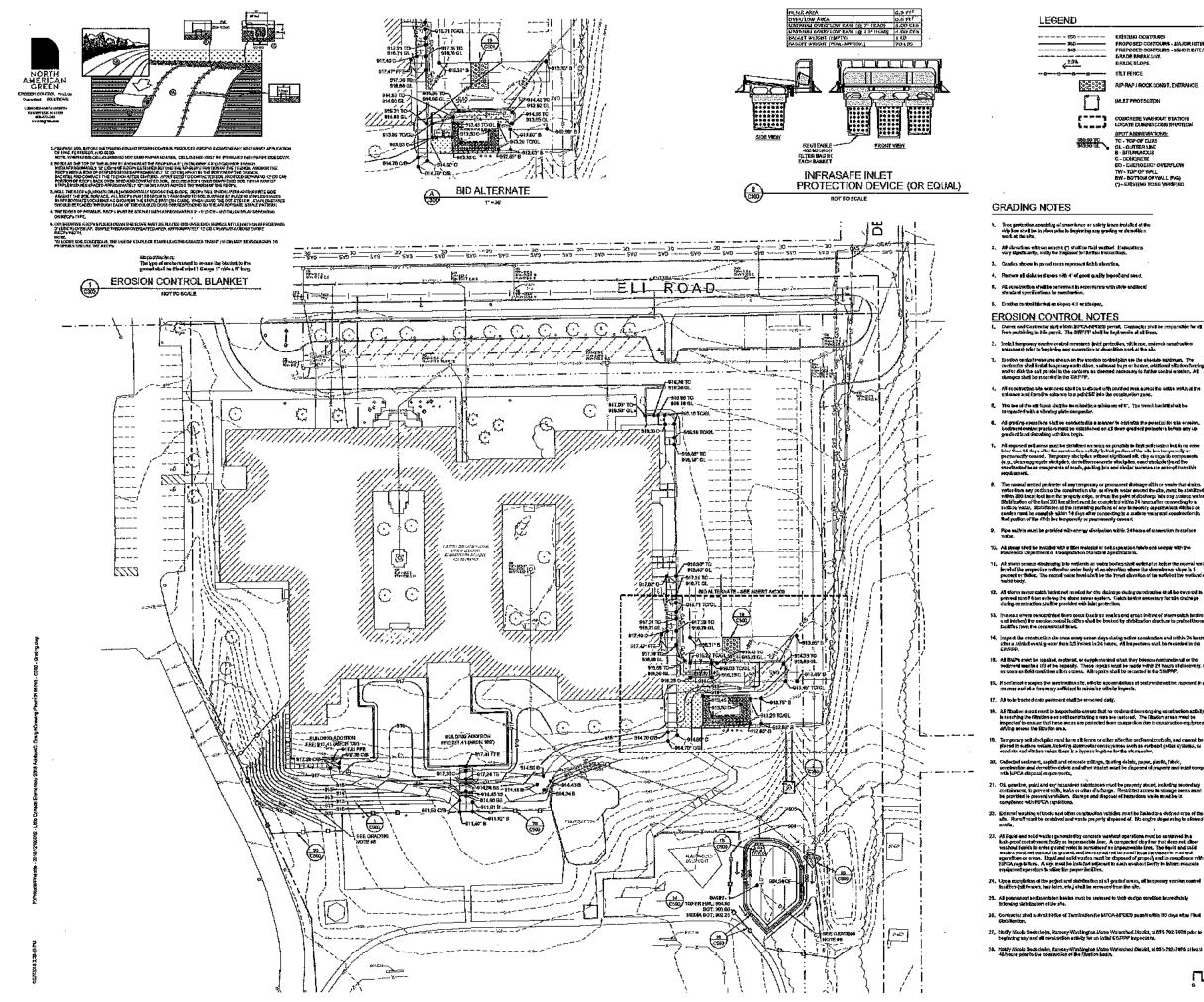
2. The applicant shall submit an executed copy of the stormwater maintenance agreement.

3. The applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP) for the project.

4. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the SWPPP.

5. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Phase 2 Construction Permit.

6. The applicant shall submit a final copy of the signed construction plans.



Lanud

existika confours Proposed contours - Major Interval Proposed contours - Major Interval GRADE BREAK LINE BRADE BLOPE

RIP-RAP / ROCK CONST. ENTRALICE

WLET PROTECTION

SILT FENCE

CONCRETE WASHOUT STATION LOCATE CURING CONSTRUCTION
 2017 ABBREVIATION:

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ARCHITECTS

IST ABCHITECIS, MC. 100 Fordand Ave, Sovia, Suite 160 Minesogolis, MN 55454 612.343.1010 MBGD 612.3382283 /64

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LITTLE CANADA ELEMENTARY SCHOOL ADDITION AND REMODELING

400 Eli Rosd Little Canada, MN



Engineering, Inc. 3524 Labore Read White Boar Lake, MH 55510 651,481,8120 (0 651,484,9201

@2018 Larson Engineering Ins. All op/thireseved

Key Plan

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PROJECT STATUS

CONSTRUCTION DOCUMENTS

GRADING AND EROSION CONTROL PLAN

Project 12(650/2500 Daty log Nambe Defe 052(16) Dreve by NR) Checked by ECM

Permit Application Coversheet

Date July 11, 2018		
Project Name Beebe I	Meadows	Project Number 18-17
Applicant Name Mike	e Kevitt, SVK Development	
Type of Development	Residential	
Property Description		

This project is located on the northeast corner of Larpenteur Avenue and Beebe Road in the City of Maplewood. The applicant is proposing to construct 7 single-family homes with associated driveways and sidewalks. The total site area is 1.47 acres. Volume reduction and rate control will be achieved through construction of two infiltration basins located in the backyards of the proposed homes. Pretreatment will include grass filtration. Two wetland basins were delineated to the south and east of the site. Boundaries were approved on 12/20/16 (#16-16 WCA). The proposed project will not impact wetlands and achieves compliance with the District's no-disturb buffer requirements.

Watershed District Policies or Standards Involved:

✓ Wetlands

Erosion and Sediment Control

Stormwater Management 🛛 Floodplain

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

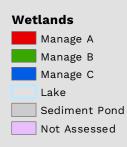
Staff recommends approval of this permit with the special provisions.

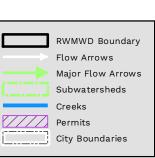
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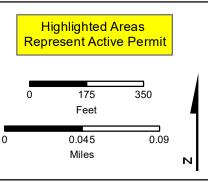
- ✓ Project Location Map
- ✓ Project Grading Plan

#18-17 Beebe Meadows











18-17

Special Provisions

1. The applicant shall submit a revised narrative that confirms there are no wetland impacts associated with the project.

2. The applicant shall submit an updated 'Existing Conditions' model using the Atlas 14 NRCS MSE3 rainfall distributions.

3. The applicant shall submit an executed joint maintenance agreement with the City of Maplewood for the proposed stormwater facilities.

4. The applicant shall submit construction details for the proposed infiltration basins, including inlets, outlets, emergency overflows, and typical cross-section.

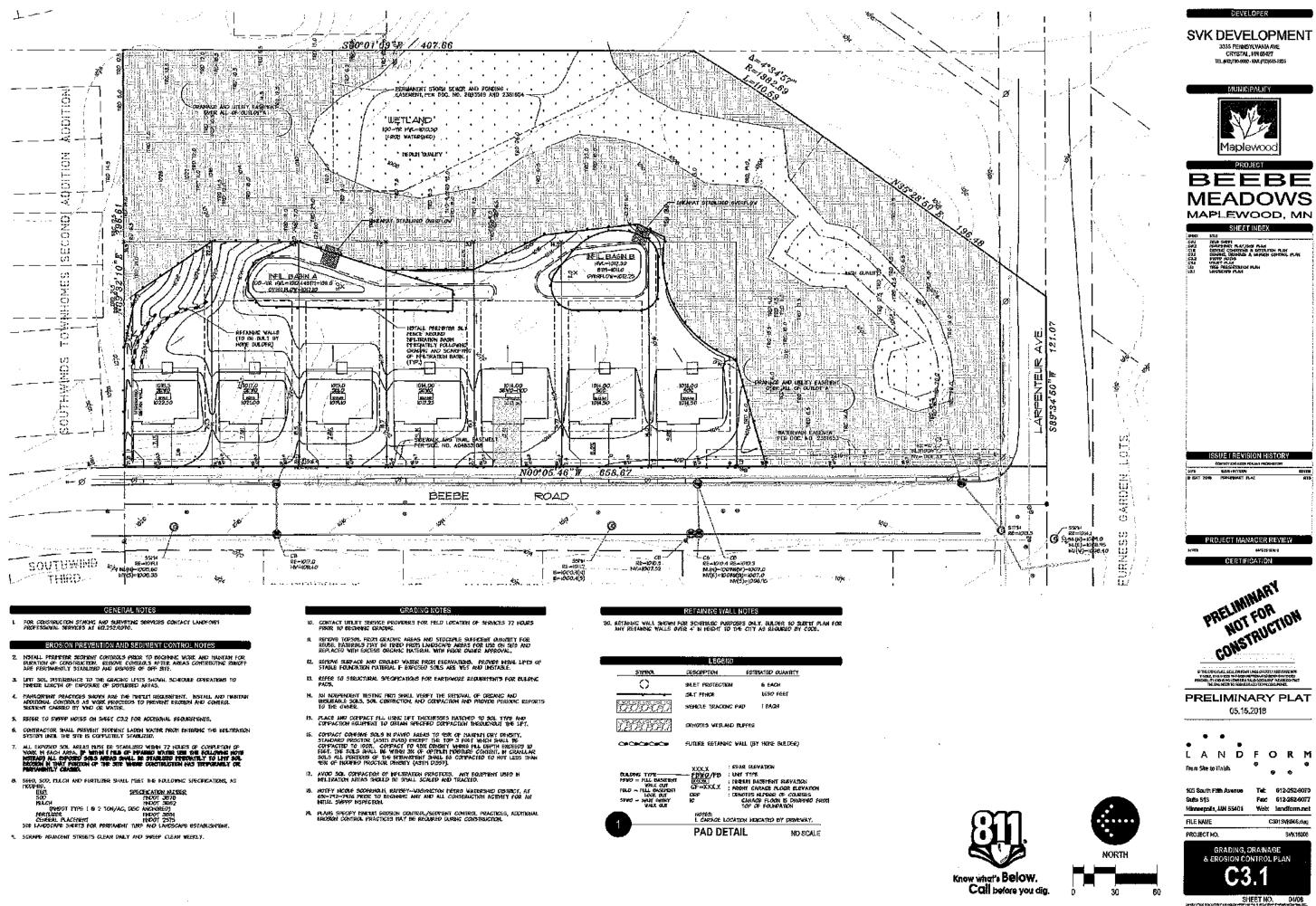
5. The applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP) for the project.

6. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the SWPPP.

7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Phase 2 Construction Permit.

8. The applicant shall submit a revised Sheet C3.1 with the correct wetland buffer symbology in the legend.

9. The applicant shall submit a final copy of the signed construction plans.



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Permit Application Coversheet

Date	July 11,	, 2018			
Project	Name	I-694 & I	Rice Street Interchange	Project Number	18-18
Applica	nt Nam	Beth	Engum, Ramsey County Public Works		
Type of	f Develo	opment	Linear		

Property Description

This project is located along the I-694 and Rice Street interchange in the cities of Shoreview, Little Canada, and Vadnais Heights. The project is split between the District and the Vadnais Lake Area Water Management Organization (VLAWMO). The District has the most stringent design criteria, and VLAWMO does not have permitting authority. District requirements have been applied throughout the project area. The applicant is proposing to reconstruct the I-694 and Rice Street interchange, including three roundabouts, ramp and approach work, and the reconstruction of 2,300 linear feet of Rice Street.

The applicant is proposing to construct a filtration basin, infiltration basin, and dry pond to manage stormwater on the site. The District caps volume reduction credit at 2" of runoff to any one Best Management Practice (BMP), so the applicant has submitted BMP construction cost information to satisfy requirements for the linear cost cap. The project is located within a Drinking Water Supply Management Area, Wellhead Protection Area, and Emergency Response Area. Design guidelines from the Minnesota Pollution Control Agency and Minnesota Department of Health were utilized to confirm that infiltration can safely occur within the project limits. St. Paul Regional Water Services indicated infiltration is favorable where the soils allow it in order to reduce runoff to the drinking water intake site. The proposed design reduces rates from each discharge point within the project area for the 2, 10, and 100-year critical 24-hour rainfall events.

The layout of the proposed roadway was selected to increase safety and mobility through the corridor. While avoidance and minimization measures were incorporated, the proposed design will result in fill below the floodplain elevation of Black Tern Pond and resulting permanent wetland impacts in the amount of 0.72 acre. To ensure there is no loss of floodplain storage, the applicant has submitted a design that will provide sufficient compensatory storage adjacent to the affected floodplain and 0.42 acre of wetland buffer. Temporary wetland impacts of 0.61 acre will occur to accommodate site grading, and these areas will be restored with native vegetation. The applicant is required to provide the floodplain compensatory storage prior to or concurrently with the proposed fill to ensure there are no adverse flood impacts during and after construction. Due to site constraints, existing conditions, and the nature of the project, the applicant has requested approval for the Minnesota Board of Water and Soil Resource's Local Road Wetland Replacement Program to meet Wetland Conservation Act replacement requirements has been submitted for board consideration.

Watershed District Policies or Standards Involved:

✓ Wetlands

Erosion and Sediment Control

🗹 Stormwater Management

🗹 Floodplain

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, wetland replacement plan, and variance request.

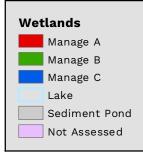
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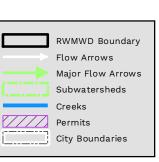
- ✓ Project Location Map
- □ Project Grading Plan

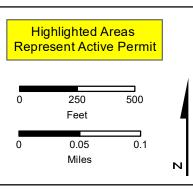
#18-18 I-694 & Rice Street Interchange

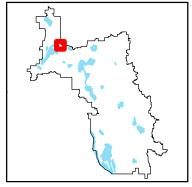


Note: Shaded area is outside RWMWD









18-18

Special Provisions

1. The applicant shall submit a final project narrative.

2. The applicant shall submit a revised Stormwater Pollution Prevention Plan (SWPPP) with the following notes:

A. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning any and all construction activity for an initial SWPPP inspection.

B. Provide redundant perimeter control around surface waters including wetlands where a 50 foot no-disturb buffer cannot be preserved.

3. The applicant shall submit pdf files of the final HydroCAD report print-out for the 24-hour duration events.

4. The applicant shall submit a floodplain Memorandum of Understanding signed by Ramsey County and St. Paul Regional Water Services that preserves proposed grading contours adjacent to Black Tern Pond.

5. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Phase 2 Construction Permit.

6. The applicant shall submit a wetland buffer restoration plan for areas temporarily disturbed during grading.

7. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the SWPPP.

8. The applicant shall submit a final copy of the signed construction plans.

Minnesota Wetland Conservation Act Notice of Application

Local Government Unit (LGU)	Address
	2665 Noel Drive Little Canada, MN 55117
Watershed District	Little Canada, Min 55117

1.	PROJECT INFOR	MATION			
Applicant Name	Project Name		Date of	Application	
Beth Engum, Ramsey County	I-694 & Rice Street	Interchange	Application		
Public Works			6/25/18	18-08 WCA	L
1425 Paul Kirkwold Drive					
Arden Hills, MN 55112					
beth.engum@co.ramsey.mn.us					
Type of Application (check all that apply):					
Wetland Boundary or Type	No-Loss	🗌 Exemp	tion	Sequencing	
🔀 Replacement	Plan	🗌 Banking	Plan		

Summary and description of proposed project (attach additional sheets as necessary):

Rebecca Beduhn (SEH) submitted a joint application on behalf of Ramsey County Public Works requesting approval for a replacement plan through withdrawal of banked credits from the BWSR Local Road Wetland Replacement Program (LRWRP).

Ramsey County is proposing to reconstruct the existing I-694 & Rice St interchange. The project area is approximately 55 acres and spans the cities of Shoreview, Vadnais Heights, and Little Canada: Section 31, Township 30N, Range 22W and Section 36, Township 30N, Range 23W.

Wetlands within and adjacent to the project area were delineated on August 24, 2016. Boundaries were approved by RWMWD on September 22, 2016.

The project proposes to permanently impact 30,805 square feet (0.72 acre) of wetland in addition to temporary impacts to 26,565 square feet (0.61 acre) of wetland. Avoidance and minimization efforts are discussed in the enclosed Wetland Permit Application Memo.

A pre-application TEP meeting was held on April 17, 2018 to discuss mitigation requirements for the project. The applicant is pursuing approval for the LRWRP because the project is an existing roadway that would be redesigned to meet federal and state design standards, including safety updates and improvements. Additionally, the project is not being constructed solely for additional traffic capacity. TEP members present expressed general agreement that the proposed project would likely qualify for the LRWRP.

If approved, the project will result in the withdrawal of 1.4144 credits (2:1 replacement) from a wetland bank to be identified by BWSR.

2. APPLICATION REVIEW AND DECISION

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 3 provides notice that an application was made to the LGU under the Wetland Conservation Act as specified above. A copy of the application is attached. Comments can be submitted to:

Name and Title of LGU Contact Person	Comments must be received by (minimum 15
Nicole Soderholm	business-day comment period):

Permit Coordinator	July 17 th , 2018
Address (if different than LGU)	Date, time, and location of decision: A decision will be made following a review of the application and completion of the comment period.
Phone Number and E-mail Address 651-792-7976	Decision-maker for this application:
nicole.soderholm@rwmwd.org	Governing Board or Council

Signature: nicolestrelation Date: 6/26/18

3. LIST OF ADDRESSEES

	SWCD TEP member: Michael Schumann (Ramsey Conservation District)
	BWSR TEP member: Ben Meyer LGU TEP member (if different than LGU Contact): DNR TEP member: Jen Sorensen, Becky Horton DNR Regional Office (if different than DNR TEP member) WD or WMO (if applicable): Applicant (notice only) and Landowner (if different) Members of the public who requested notice (notice only):
\boxtimes	Corps of Engineers Project Manager (notice only) BWSR Wetland Bank Coordinator (wetland bank plan applications only)

4. MAILING INFORMATION

>For a list of BWSR TEP representatives: www.bwsr.state.mn.us/contact/WCA_areas.pdf

>For a list of DNR TEP representatives: www.bwsr.state.mn.us/wetlands/wca/DNR_TEP_contacts.pdf

>Department of Natural Resources Regional Offices:

<u>NE Region</u> :	Central Region:	Southern Region:
Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.
Div. Ecol. Resources	Div. Ecol. Resources	Div. Ecol. Resources
1201 E. Hwy. 2	1200 Warner Road	261 Hwy. 15 South
Grand Rapids, MN 55744	St. Paul, MN 55106	New Ulm, MN 56073
	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1201 E. Hwy. 2	Reg. Env. Assess. Ecol.Reg. Env. Assess. Ecol.Div. Ecol. ResourcesDiv. Ecol. Resources

For a map of DNR Administrative Regions, see: http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf

>For a list of Corps of Project Managers: www.mvp.usace.army.mil/regulatory/default.asp?pageid=687 or send to:

⋟

US Army Corps of Engineers St. Paul District, ATTN: OP-R 180 Fifth St. East, Suite 700 St. Paul, MN 55101-1678

>For Wetland Bank Plan applications, also send a copy of the application to:

Minnesota Board of Water and Soil Resources Wetland Bank Coordinator 520 Lafavette Road North St. Paul, MN 55155

5. ATTACHMENTS

In addition to the application, list any other attachments: Wetland Permit Application Memo



Building a Better World for All of Us®

MEMORANDUM

TO:	Nicole Soderholm, RWMWD Permit Coordinator
FROM:	Rebecca Beduhn, SEH Wetland Scientist
DATE:	June 18, 2018
RE:	I-694 and Rice Interchange - Wetland Mitigation and Buffer Variance Request SEH No. RAMSE 135877 14.00

Background

The purpose of this memorandum is to formally request a variance from the Ramsey-Washington Metro Watershed District wetland mitigation and buffer requirements for the proposed Interstate 694 (I-694) and Rice Street interchange reconstruction in Ramsey County, Minnesota. Ramsey County is proposing to reconstruct this interchange, and cannot comply with of the watershed rules due to hardship.

A variance is requested for both the wetland mitigation and the wetland buffer requirements.

Variance Request 1: RWMWD Rule E Standards

The RWMWD requires, where permitted, that wetland replacement adhere to the following siting sequence:

- 1. On-site replacement, when feasible
- 2. Within the same sub-watershed
- 3. Within the District
- 4. Outside of the District

Summary of Request

A variance of the requirement to mitigate within the watershed is requested, on the basis that 2:1 replacement is proposed outside the watershed through the Board of Water and Soil Resources (BWSR) Local Road Wetland Replacement Program

Summary of Proposed Approach

This siting criteria differs from what is required under the Minnesota Wetland Conservation Act (WCA) and current guidance by the U.S. Army Corps of Engineers (USACE), which both prefer wetland banking over project specific replacement, and will allow a broader geography for location by considering the Bank Service Area to be considered in-place. The RWMWD rules are more restrictive, as the watershed is only a portion of the Bank Service Area, and therefore has a greater limitation on where mitigation can occur. Currently, there are no wetland banks within the district boundaries, so any mitigation would be required to be project specific.

The project proposes to use the BWSR Local Road Wetland Replacement Program for wetland mitigation, which is a state program which provides wetland mitigation for local road authorities where the project is an existing roadway and safety improvements are a primary component. Preliminary discussion with the BWSR has indicated that this project is likely to be supported, and with concurrence of the Technical Evaluation Panel, the mitigation for the WCA and the USACE would be provided by the State. The location of this mitigation is

I-694 and Rice Interchange - Wetland Mitigation and Buffer Variance Request June 18, 2018 Page 2

determined by the State, and cannot be determined until after the eligibility has been confirmed, but with no banks available in the watershed we know it will not meet the RWMWD siting requirements.

In summary – the project proposes to meet the requirements of the WCA and USACE for wetland mitigation, but replacement will occur outside the watershed.

Summary of Hardship and Efforts to Comply

The primary hardship is the lack of opportunities to complete wetland mitigation within the project, and within the watershed. In an effort to meet the watershed requirements, Ramsey County has undertaken efforts to meet the requirements, as summarized below.

Stormwater volume retention or infiltration

The option to provide wetland through incorporation with stormwater treatment (volume retention or infiltration) was examined by SEH staff. Preliminary designs indicate limited to no ability to provide additional capacity beyond meeting the minimum watershed permit requirements for stormwater treatment. The opportunity to create wetland as a second cell is not present, and calling areas of active treatment mitigation would not be appropriate as the functions and values would not be replaced, and the depth of water may not meet wetland definitions.

Floodplain Mitigation

Similarly, areas of proposed floodplain mitigation were considered to see if they could also serve as wetland mitigation. While excavation is proposed for the creation of floodplain, it is located above the Ordinary High Water (OHW) of Blacktern Pond, and is not expected to be wetland – only storage for floodwater. As it would not create wetland, it is not suitable to consider it for mitigation. Excavation to make the floodplain mitigation deeper and create wetland was considered, but any activity below the OHW would require permitting through the Minnesota Department of Natural Resources (MNDNR), as Blacktern Pond is a Public Water. The MNDNR has previously commented that permitting to excavate within a Public Water for the purposes of creating floodplain storage was not able to be approved, therefore we are unable to create wetland and have floodplain mitigation provide dual purpose approvals.

Enhancing the quality of the effected wetland

The Board and SEH were in agreement that enhancing existing wetlands within and surrounding the project area may not be a viable option, as the wetland are subject to degradation because of such close proximity to the freeway system. Short term vegetation enhancement may be technical possible, but are not realistic long-term sources of mitigation.

Expanding Wetland 2 or 3

Expansion of Wetlands 2 and 3 is a concern because of the proximity of the basins to the adjacent roadways, and the small drainage area supporting a larger wetland. Wetlands 2 and 3 are small ditch basins adjacent to the road, and could pose potential risk to the nearby road system if the sizes are increased. There is also a challenge of having wetland within the right of way, if there is sufficient hydrology to support a larger wetland, and ensuring that the wetland has acceptable functions and values, given the current wetland quality is low. While there may be a small opportunity here to make a marginal improvement to the wetland area or quality, it is essentially negligible toward the goal of 1:1 replacement.

Using roundabout with depressed pervious centers

The proposed design for each roundabout does employ pervious surfaces, however the centers cannot be depressed and meet MnDOT and Federal Highway Administration safety requirements for the corridor.

Wetland creation within one of the nearby vacant lots

The lot near Wetlands 2 and 3 is owned by Ramsey County, however, the proposed alignment also traverses this lot, and does not leave sufficient space to complete on-site replacement in this location.

I-694 and Rice Interchange - Wetland Mitigation and Buffer Variance Request June 18, 2018 Page 3

Other locations within Watershed District

Ramsey County staff completed an internal review of other locations that could be considered, but ultimately determined that the majority of sites considered were not acceptable due to existing land uses, not available due to ownership, or would not be practicable due to the low quality of the existing wetlands and the inability to maintain the desired success criteria of high or improved quality wetlands. Public Works staff approached the Park and Recreation Department to expand the search to other County-owned parcels within the RWMWD. While there is land available, there is a general shortage of acceptable places where wetland can be created, and even fewer opportunities where restoration could be achieved. Based on feedback from the Park and Recreation staff, it is presumed that there are no opportunities that would be viable for this project. Potentially there are opportunities that could be considered further, but would require incorporation within the plans for these parks, and would require additional time before they could be fully evaluated and incorporated in plans for the current project.

Design, monitoring, and maintenance limitations

One of the primary concerns of project specific replacement within the watershed is that it would be potentially possible to create the area of wetland needed, but very difficult to meet success standards for quality. Mitigation standards under WCA, which presumably would be the same used by the RWMWD, establish recommendations for vegetation quality, grading and side slopes, depths, and required upland buffers. These can be difficult to achieve as expansions of existing wetlands, particularly if it is expansion of low quality wetland, or is not an appropriate fit within the landscape. Other concerns of on-site replacement include the requirements for maintenance, monitoring, and any limitations on future land use (such as a need for easement or deed of restrictions and covenants), which may also be difficult to achieve. Overall, if a potential site were to be identified, there is still concern that it would not be successful, and therefore the County has reservations on proceeding with what is a riskier approach to mitigation than using either the BWSR bank, or a private bank where the wetland restoration has already occurred.

Variance Request 2: Buffer Requirements

Summary of Request

A variance of the wetland buffer requirement is requested, on the basis that the existing site conditions fail to meet the requirements, and that there is insufficient area post-construction to meet these criteria.

Summary of Proposed Approach

Wetlands in the RWMWD have been classified using the Minnesota Routine Assessment Method (MnRAM) Version 3.4 and are identified in the District's Watershed Management Plan. The classifications are used to manage wetlands and designate average and minimum wetland buffer widths (Ramsey-Washington Metro Watershed District Rules 2015). Wetland 4 has been classified as a Manage C, which designates the basin to be under "light management" criteria. Manage C wetlands require an average buffer width of 25 feet, with a minimum buffer width of 12.5 feet.

Wetland buffer requirements were examined for the project as proposed. Using the average buffer width of 25 feet, a total buffer of 0.87 acres is required to comply with the buffer requirements.

Summary of Hardship and Efforts to Comply

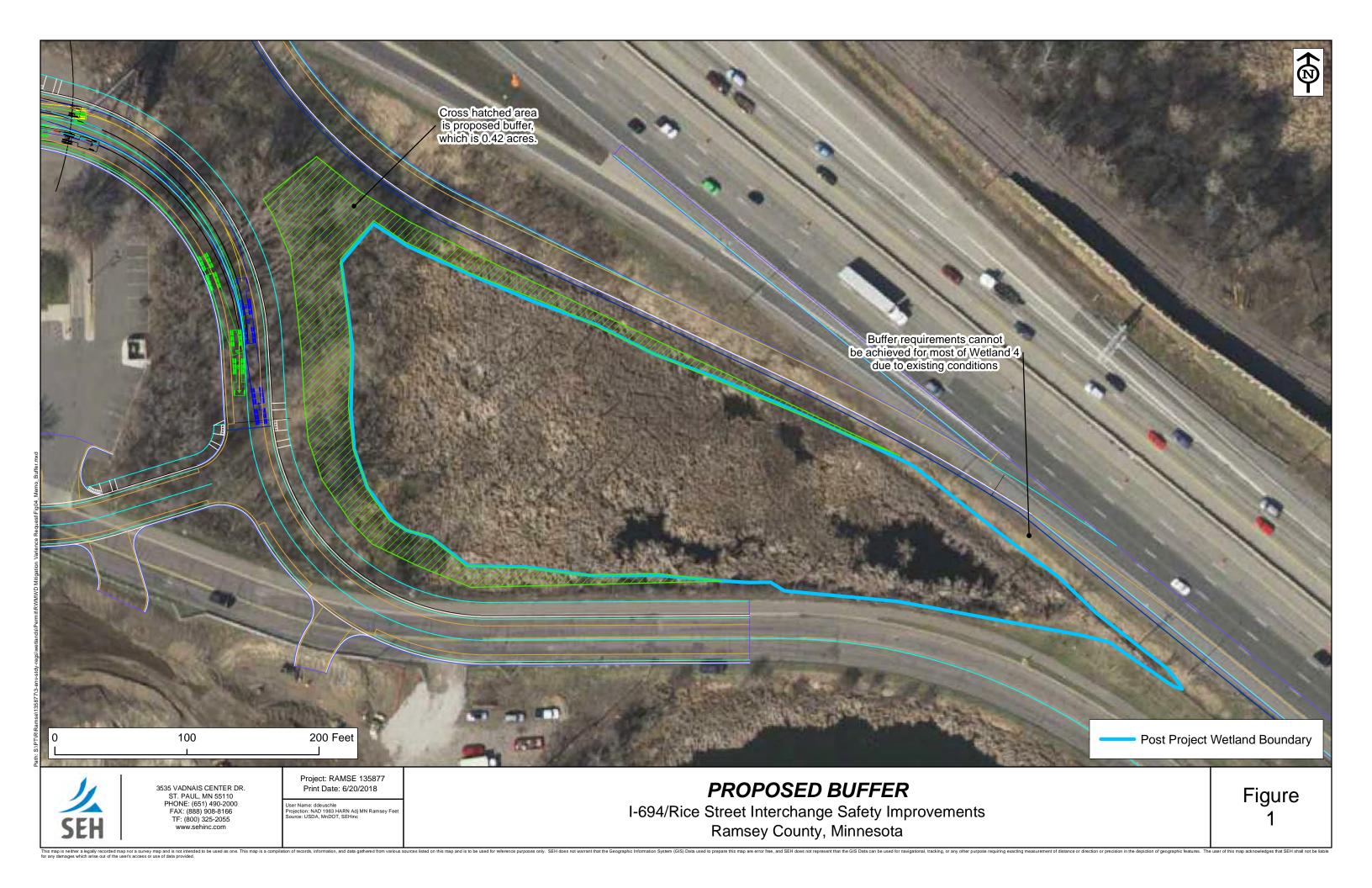
Due to the nature of the project, it is not possible to meet the buffer requirements for Wetland 4. The reconstruction is to an existing roadway system and the wetland occurs at the toeslope of existing Country Drive and I-694, which leaves little area for a wetland buffer.

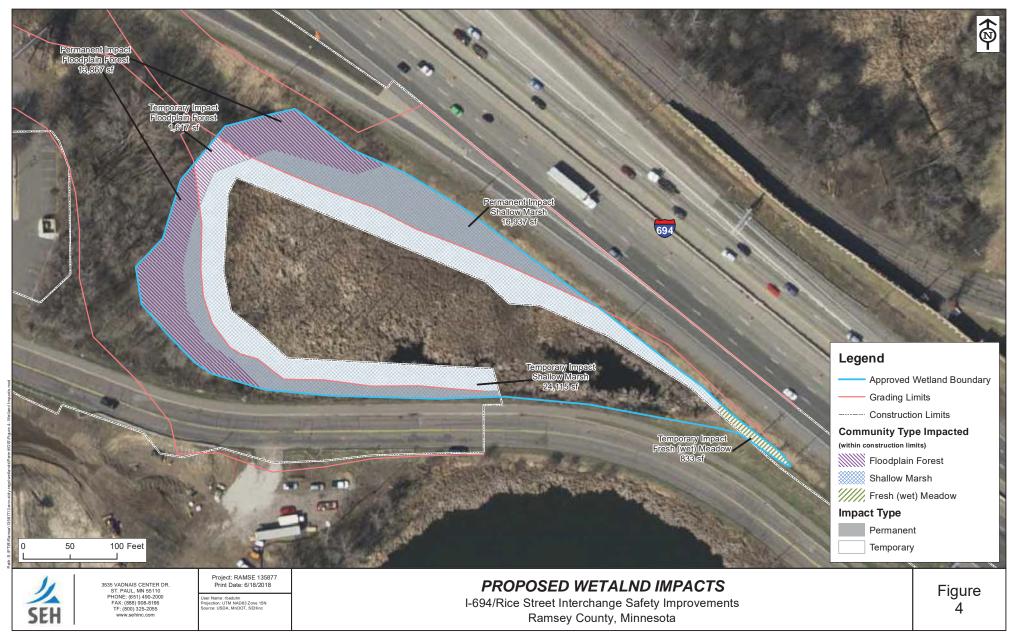
Using the post-construction wetland boundary, the area of fill into the wetland can be used to provide buffer for the western portion of Wetland 4. A total of 0.42 acres can be used as buffer for this portion. However, the eastern portion, which currently does not comply, will not be able to be able to meet buffer requirements.

Figure 1 is included to show where buffer can be placed, and to show where it doesn't not comply. Compliance is primarily because the new roadway sideslopes can be left vegetated and qualify, but it is noted that they are also a result of wetlands fill.

Overall, wetland buffers will be kept to the greatest extent possible, but full compliance cannot be achieved primarily due to limitations of existing conditions.

Enclosure c: Beth Englum, Ramsey County s:\pt\r\armse\135877\3-env-stdy-regs\wetlands\permit\rwmwd mitigation varience request\i-694 and rice interchange wetland mitigation varience memo.docx





This map is neither a legally recorded map nor a survey map and is not inter for any damages which arise out of the user's access or use of data provide



MEMORANDUM

Date: July 11, 2018

To: Board of Managers and Staff

From: Nicole Soderholm, Permit Coordinator

Subject: June Enforcement Action Report

During June 2018:

Number of Violations:	32
Install/Maintain Inlet Protection	10
Install/Maintain Perimeter Control	5
Install/Maintain Construction Entrance	4
Sweep Streets	1
Stabilize Exposed Soils	2
Contain Liquid/Solid Wastes	2
Remove Discharged Sediment	3
Protect/Maintain Permanent BMPs	2
Install/Maintain Ditch Checks	1
Install/Maintain Energy Dissipation	2

Ongoing Activities:

Erosion/sediment control inspections and enforcement, permitting assistance to private developers and government entities, monthly permit review in collaboration with Barr Engineering, WaterFest setup, IDDE training for all staff, miscellaneous complaints and inquiries, WCA site visits and administration, compiling information and collaboration with CRWD for proposed permit rule changes, permit close-outs and escrow refunds

Project Updates:

Permit #16-28 Hazelwood Medical Office Building, Maplewood

The medical office building constructed last year off Beam Avenue is complete, but the filtration basin that was constructed as part of the site's permit requirements is holding

water longer than 48 hours. District staff inspected the basin in May and June. The permit applicant and contractor for the project have been notified that the project escrow cannot be returned until the basin is functioning properly. The contractor has responded to indicate they will be assessing the basin for potential solutions.

Permit #15-40 Maplewood Imports

Construction at the new Porsche dealership off Highway 61 is substantially complete. Staff completed an inspection and notified the contractor of areas that are yet to achieve 70% vegetation coverage. A vegetation maintenance subcontractor will be visiting the site to assess areas for reseeding. The stormwater filtration areas are complete and draining properly. A final inspection will be scheduled later this year to determine if the permit can be closed out.

Permit #18-02 Twin City Hardware Expansion, Oakdale

Construction has started at the Twin City Hardware location off Hadley Avenue. District staff completed an initial inspection on the site and met with the contractor. Routine issues were noted like street sweeping and stockpile protection. The contractor responded that the issues would be promptly corrected. Staff will plan on visiting the site twice a month barring any non-compliance that would trigger more frequent inspections.

Permit #15-35 Shoreview Library

Site work is complete at the Ramsey County public library off Victoria Street. Staff completed a final inspection of the site mid-month and confirmed vegetation establishment. Stormwater BMPs have all been inspected and are functioning properly. Final as-built plans and maintenance information were requested of the county before the permit can be closed out, and the District is currently waiting on these items.

Permit #15-37 MnDOT I-94 from Earl St to TH120, St. Paul

MnDOT continues to work with the contractor on final punchlist items for the I-94 reconstruction project in St. Paul. A final inspection with District staff is expected to be scheduled in July to determine if the permit can be closed. Work was substantially completed last year including the construction of a filtration basin to capture drainage from the corridor.

Permits Closed in June 2018:

- 15-34 White Bear Acura Subaru, Vadnais Heights
- 16-04 Kwik Trip Vadnais Heights
- 16-13 Chick-fil-A, Maplewood
- 16-14 Indian Motorcycle, Landfall
- 16-29 MnDOT 35E Noise Wall Reconstruction, Little Canada

Stewardship Grant Program

BMP Incentive Application Summary

 Project Name:
 Rolling Hills HOA
 Application Number
 18-13 CS

 Board Meeting Date:
 7/11/2018
 4
 4

 Applicant Name:
 Vicki Pream
 5
 5

 Residential
 Commercial/Government
 Image: Commercial/Government
 Image: Commercial/Government

Project Overview:

This project is located at Rolling Hills townhome association off Lexington Avenue and Victoria Street in Shoreview. The applicant is proposing to restore an existing drainage swale, by creating four pools to slow stormwater runoff. The proposed pooling areas will be planted with native vegetation and will include sand trenches to increase infiltration in the area. This will also help solve some erosion issues that the association has been experiencing. The Ramsey Conservation District will also be contributing grant funds towards this project.

This project is eligible for 75% funding up to \$50,000.

BMP type(s):

Infiltration Basin(1)

Grant Request: \$50,000.00

Recommendation:

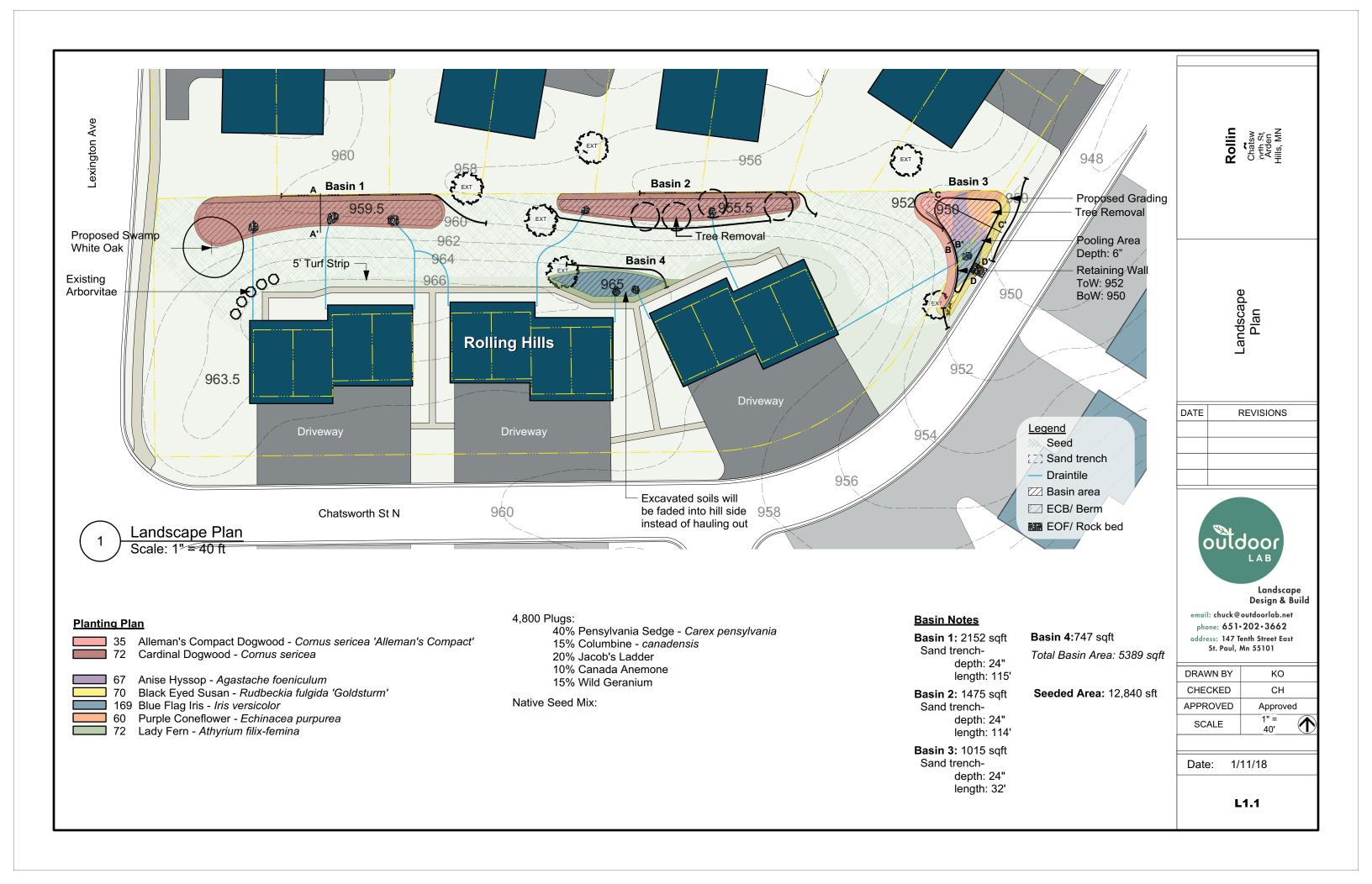
Staff recommends approval of this application.

Subwatershed:

Snail Lake

Location Maps:





BMP Incentive Application Summary

Project Name: <u>Battle Creek Elementary School</u>

Application Number <u>18-14 CS</u>

Board Meeting Date: 7/11/2018

Applicant Name: <u>Charles Colvin</u>

Commercial/Government 🛛 🗹

Project Overview:

Residential

This project is located at Battle Creek Elementary School off Ruth Street and Upper Afton Road in St. Paul. The school is looking to remove an existing asphalt play area to turn it into a playground. The applicant is proposing to convert 10,000 square feet of asphalt around the playground into a low mow turf area. This falls in line with our impervious surface reduction initiatives. This is phase 1 of a multi-phase remodel project the school is undergoing. The school has expressed interest in incorporating rain gardens and other stormwater BMPs in future phases of the project.

This project is in a priority area and is eligible for 100% coverage up to \$100,000.

BMP type(s):

Native Habitat Restoration(1)

Grant Request:

\$13,000.00

Recommendation:

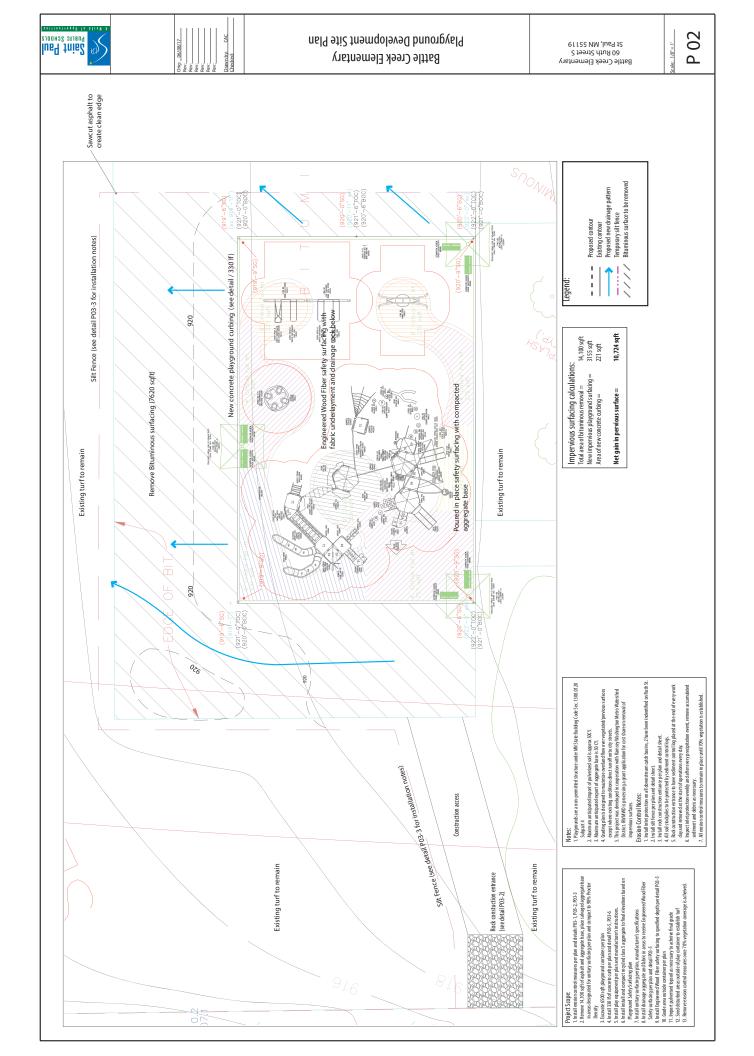
Staff recommends approval of this application.

Subwatershed:

Battle Creek

Location Maps:





BMP Incentive Application Summary

Project Name: <u>Maplewood City Hall</u>

Application Number <u>18-15 CS</u>

Board Meeting Date: 7/11/2018

Applicant Name: <u>Virginia Gaynor</u>

Commercial/Government

Project Overview:

Residential

This project is located at the Maplewood City Hall off County Road B East and White Bear Avenue. This project will install three rain gardens. One rain garden will be in the parking lot and two will be near the city hall entry walkway. Stormwater from the parking lot, rooftop, and adjacent walkways will be treated with these rain gardens. In July of 2017 the Board informally approved funding a public art piece at 50% coverage up to \$5,000. The City will be moving forward with an artpiece in one of the entry gardens. The request will be under \$5,000 so will be approved at a staff level.

✓

This project is in a priority area and is eligible for 100% coverage up to \$100,000.

BMP type(s):

Rain Garden(2)

Grant Request: \$60,000.00

Recommendation:

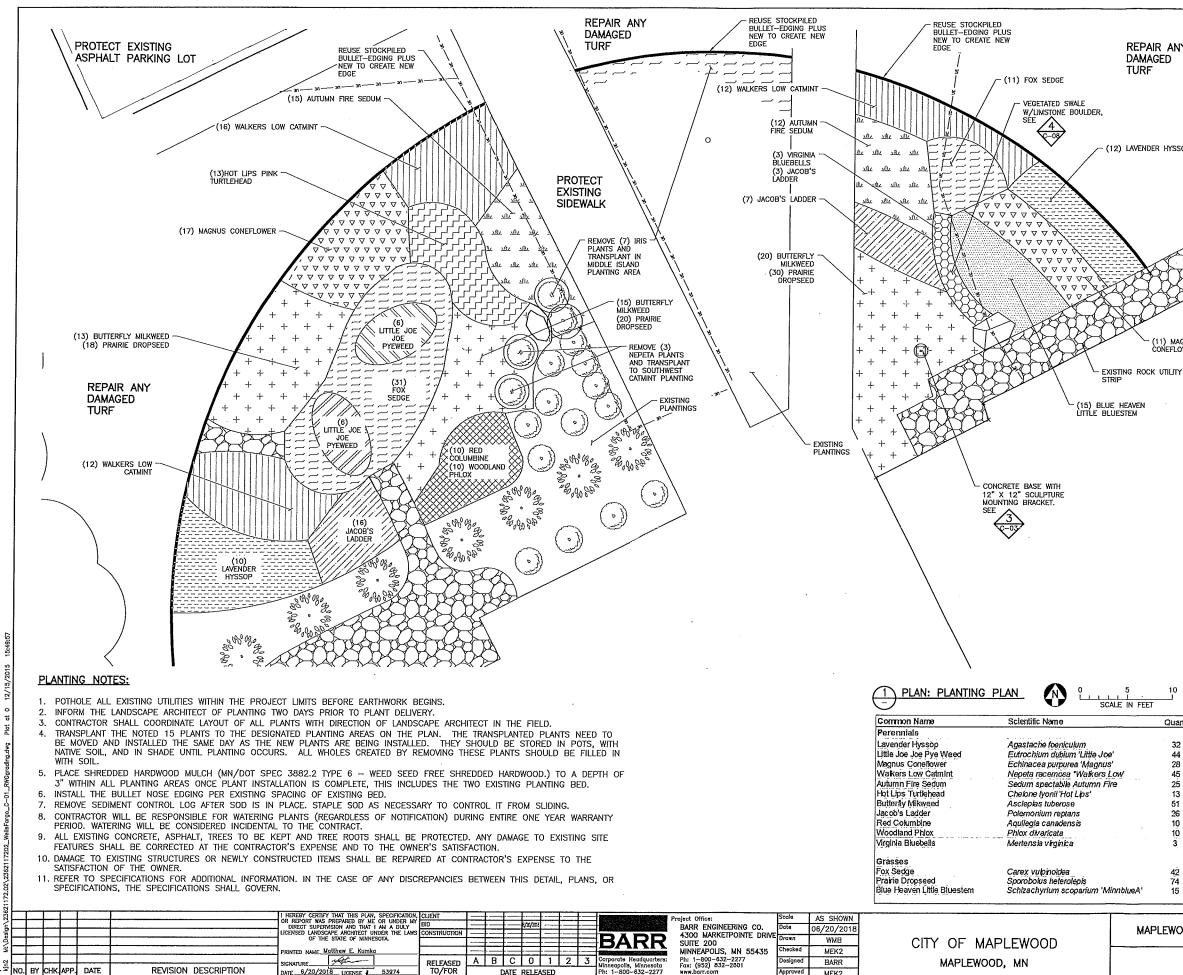
Staff recommends approval of this application.

Subwatershed:

Wakefield Lake

Location Maps:





Ph: 1-800-632-2277

DATE RELEASED

SCALE: 1:2 PLOT DATE: 6/20/2018 1 SURVEY_2015_RAIN_GARDENS.dwg PLOT ž, CITY HALL_C-05. M:\Design\236211 DOON 5mp

BY CHK APP

DATE

REVISION DESCRIPTION

DATE 6/20/2018 LICENSE 53974

BARR MAPLEWOOD, MN MEK2

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11) MAGNUS CONEFLOWER

(12) LAVENDER HYSSOP

REPAIR ANY

DAMAGED TURF



BMP Incentive Application Summary

Project Name: <u>Meno</u>	<u>mini Park</u>		Application Number	<u>18-16 CS</u>
Board Meeting Date:	<u>7/11/2018</u>			
Applicant Name:	<u>Sharon Doucette</u>			
Residential 🗌	Commercial/Government	\checkmark		

Project Overview:

This project is located in Menomini Park in the City of Woodbury. Runoff from adjacent homes runs directly down a hillside and has created a gully that deposits sediment into the park area. The City of Woodbury is requesting funds to help stabilize the slope, install an infiltration basin, and redirect drainage directly into the infiltration basin. The infiltration basin will collect roof and garage runoff from the adjacent homes. The application is a joint effort between the two homeowners on the hillside and the City of Woodbury. The City of Woodbury has agreed to take on maintenance responsibility of the infiltration basin with assistance from the homeowners.

This project is in a priority area and is eligible for 100% funding up to \$100,000.

BMP type(s):

Infiltration Basin(1)

Grant Request:

\$36,000.00

Recommendation:

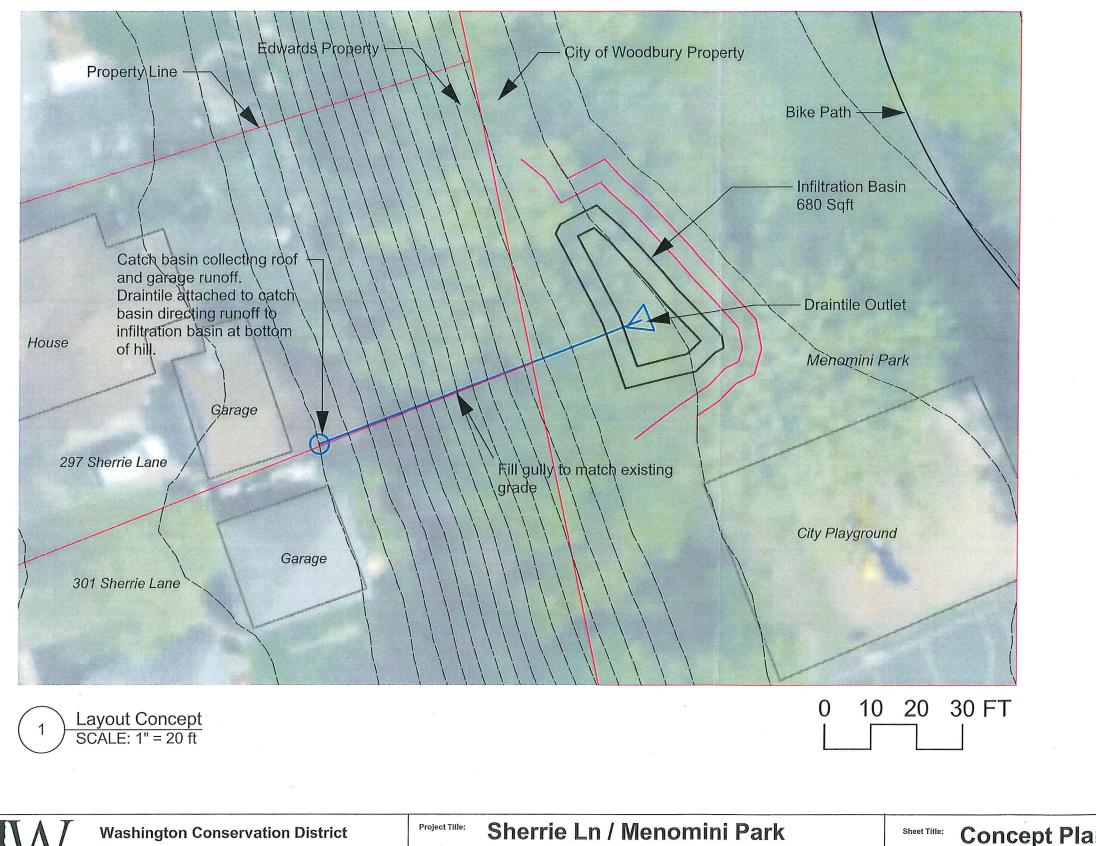
Staff recommends approval of this application.

Subwatershed:

Battle Creek Lake

Location Maps:





•	
~	

455 Hayward Ave, Oakdale, MN 55128

Phone: 651-330-8220 Fax: 651-330-7747 WWW.MNWCD.ORG

Sherrie Ln / Menomini Park

Project Address: 297 & 301 Sherrie Ln & Menomini Park Woodbury

Watershed District: RWMWD

Concept:

Existing conditions: Years of roof runoff and increased roof surface behind the garage has eroded the hillside. The erosion has created a gully down the hill leading to Menomini Park. The concern is to stabilize the hillside and reduce soil deposit settling onto City owned property. The soil is a sandy loam. Little understory vegetation growth is present.

Proposed conditions:

Install catchbasin near garage and lay draintile at bottom of gully outletting to infiltration basin at bottom of hill. Fill gully to match existing grade. Seed hillside with a native shade seed mix and place erosion control blanket in project area. Infiltration basin will be planted with native plant material. Prior to project landowners will need to coordinate with the uitility company to trim trees touching overhead utilities. Project is not possible without trimming trees touching utilies due to contractor and landowner safety.

Load Reduction: TP = 0.75 lb/yrTSS = 0.88 lb/yr

WCD

Project Manager

n			Sheet
C	s	1/17/17 Date	L-100

Stewardship Grant Program Budget Status Update July 11, 2018

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	3	\$8,884.41
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	2	\$9,650
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$15,000 Max	1	\$14,000
Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	2	\$15,230.00
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	0	\$0
PRIORITY AREAS:	100% Cost Share \$100,000 Max	4	\$390,378.73
NON-PRIORITY AREAS:	75% Cost Share \$50,000 Max	0	\$0
Aquatic Veg Harvest	50% Cost Share \$15,000 Max	1	\$8,500
Maintenance	50% Cost Share \$5,000 Max for 5 Years	4	\$5,000
Consultant Fees			\$45,507
Total Allocated			\$498,330.14

2018 Stewardship Grant Program Budget						
Budget	\$800,000.00					
Total Funds Allocated	\$498,330.14					
Total Available Funds	\$301,669.86					

Action Items

Request for Board Action

Board Meeting Date:	July 11, 2018	Agenda Item No: <u>8A</u>
Preparer:	Tina Carstens, Administrator	
Item Description:	Willow Pond Continuous Monitoring and (Approval of Plans and Authorization to Ad	· · ·

Background:

Willow Pond is a water basin upstream of Bennett Lake. Bennett Lake is impaired for excess nutrients. As the TMDL was prepared for Bennett Lake, this site was identified as a location for a potential project. The board approved a budget for 2018 to construct a spent lime filter using the CMAC technology adjacent to Willow Pond.

Willow Pond's current outflow elevation is 905.64. This system will allow Willow Pond water to flow to a new, adjacent spent-lime filter when the pond is above a lower elevation (905.1) via a weir and through an automatically adjustable valve (controlled by a sensor that tracks the depth of water in the filter and Willow Pond) until the water in the filter reaches an elevation of 904.7. At this water level in the filter, the valve will close, preventing inflowing water from Willow Pond until the water in the filter has completely passed through the media and is on its way downstream. Then, the valve will open again for another dose of water from Willow Pond, and the cycle repeats. If Willow Pond's level drops below its "new normal" elevation of 905.1, no water will enter the filter. This process will facilitate the removal of phosphorus from some of Willow Pond's water before it reaches Bennett Lake, which is impaired for excess phosphorus, while not greatly changing the water level in Willow Pond.

Shoreline surveys (both topographic and vegetation) have been conducted around Willow Pond in recent weeks. These surveys will help facilitate DNR permitting, as well as communicate expectations with the DNR and local residents after the project is implemented. Impacts are expected to be minor, but isolated areas of shoreline restoration may be in order. The City of Roseville and RWMWD will conduct final review and community outreach (at a June 27 public outreach event) before the project is put out to bid.

On Wednesday, June 27, RWMWD and City of Roseville staff held an open house at Roseville City Hall from 6:30pm to 8:00pm. 24 local residents were in attendance, many of whom live around or near Willow Pond. Staff gave a brief presentation on the background for the project, and shared project details with the attendees. Two posters were prepared to help describe the project and to answer questions (they will be shown to the managers at the July Board meeting). Residents offered good input on the project and existing conditions of Willow Pond. Homeowners were in support of the project and appreciate the efforts being put towards cleaning up Bennett Lake. Many were also interested in pursuing cost share opportunities on their property. Barr has completed the 95-percent plans and specifications for the CMAC filtration system. Construction of this project could occur as early as late summer or fall 2018. The draft plans and specifications outline are attached for consideration at the July 11 meeting. Erin Anderson Wenz will present a project budget and construction cost estimate at that meeting. If the managers deem it appropriate, they should approve the plans and specifications, project budget, and proposed schedule and direct Barr to prepare the bidding documents and advertise the project for bid.

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 Items: Expand use of innovative water quality improvement methods as necessary to address sites with limited land area for conventional treatment techniques.

Staff Recommendation:

Approve the plans and specifications, preliminary cost estimate, and proposed schedule. Direct staff to finalize the bidding documents and advertise the project for bid.

Financial Implications:

The board approved a budget of \$400,000 in 2018 for this project.

Board Action Requested:

Approve the plans and specifications, preliminary cost estimate, and proposed schedule. Direct staff to finalize the bidding documents and advertise the project for bid.

CONTRACT DOCUMENTS

CMAC FILTRATION BMP AT WILLOW POND ROSEVILLE, MINNESOTA RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

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Technical Specifications	
Division 1 - General Requirements	
01 00 00 Construction Facilities and Temporary Controls	01 00 00-1
01 11 00 Summary of Work	01 11 00-1
01 22 00 Unit Price Measurement and Payment	01 22 00-1
01 29 00 Payment Procedures	01 29 00-1
01 31 19 Project Meetings	01 31 19-1
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01 35 23 Safety	01 35 23-1
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01 77 00 Closeout Procedures	01 77 00-1
Division 2 – Existing Conditions	
02 24 09 Control of Water	02 24 09-1
Division 31 - Earthwork	
31 05 19 Geosynthetic Clay Liners	31 05 19-1
31 09 13 Instrumentation Installation	31 09 13-1
31 10 00 Site Clearing, Preparation, and Demolition	31 10 00-1
31 23 00 Excavation and Fill	31 23 00-1
31 25 00 Erosion and Sedimentation Control 31 66 15 Helical Pile Foundation	31 25 00-1
	31 66 15-1
Division 32 – Exterior Improvements	
32 16 00 Curbs, Gutters, Sidewalks, and Driveways	32 16 00-1
32 93 10 Site Restoration and Rehabilitation	32 93 10-1
Division 33 – Utilities	
33 40 00 Storm Utility Drainage Piping	33 40 00-1

BARR Ramsey-Washington Metro Watershed District

Drawings

- G-01 Sheet Index and Location Map
- C-01 Erosion Control & Removal Plan
- C-02 Storm Sewer & Grading Plan
- C-03 Storm Sewer Profile, Treatment System Plan & Section
- C-04 Storm Sewer Details
- C-05 Storm Sewer Details
- C-06 Details
- C-07 Details
- S-01 Helical Pile Details
- L-01 Landscape Restoration Plan
- L-02 Planting Details

Appendices

Soil Boring

BARR Ramsey-Washington Metro Watershed District

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT CMAC FILTRATION BMP AT WILLOW POND ROSEVILLE, MINNESOTA



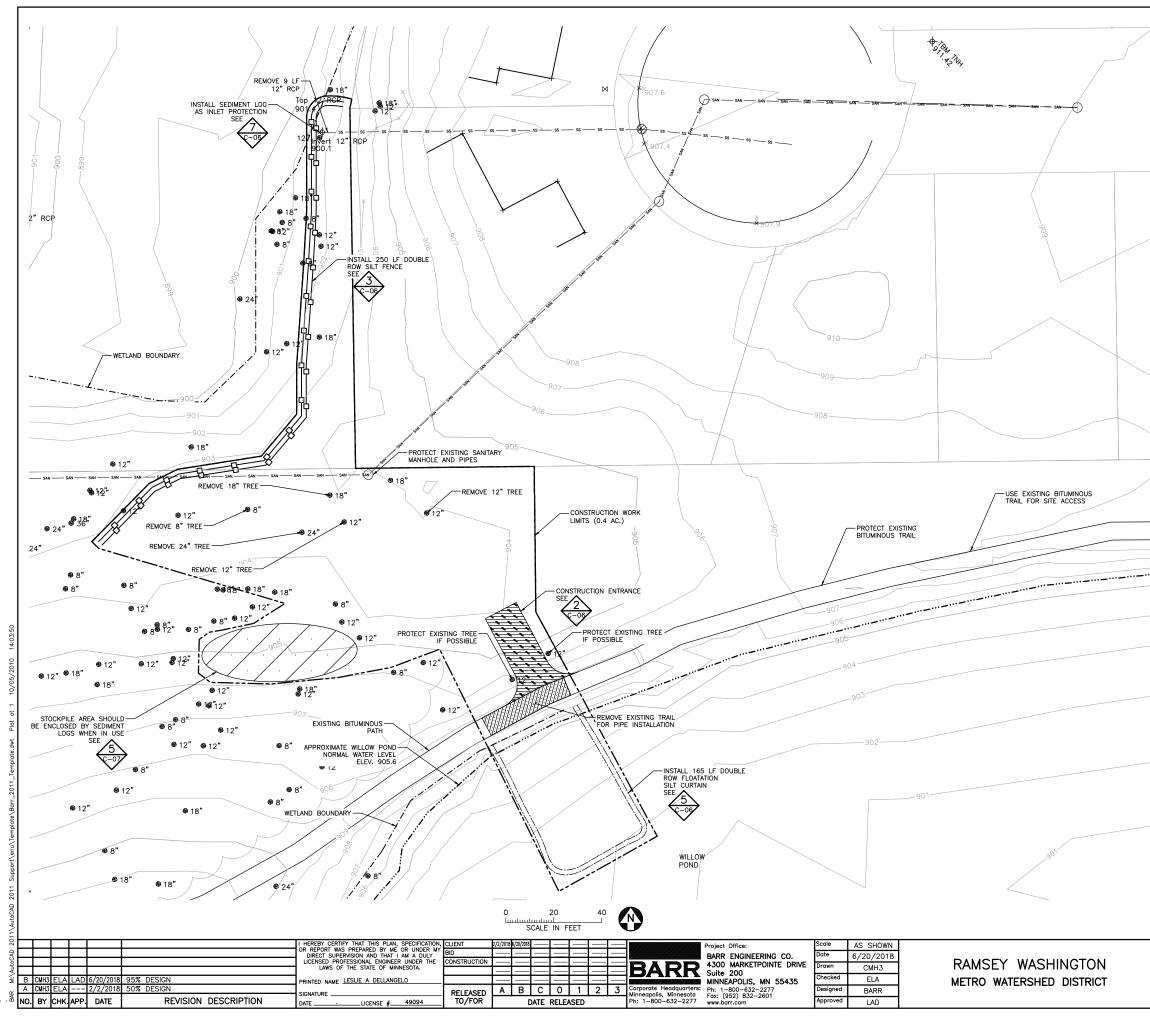
SHEET	INDEX:
DWG.	SHEET NAME
G-01	SHEET INDEX & LOCATION MAP
C-01	EROSION CONTOL & REMOVAL PLAN
C-02	STORM SEWER & GRADING PLAN
C-03	STORM SEWER PROFILE, TREATMENT SYSTEM PLAN & SECTION
C-04	STORM SEWER DETAILS
C-05	STORM SEWER DETAILS
C-06	DETAILS
C-07	DETAILS
S-01	STRUCTURAL DETAILS
L-01	LANDSCAPE RESTORATION PLAN
L-02	PLANTING DETAILS



COORDINATE SYSTEM: MINNESOTA DOT RAMSEY COUNTY, US FOOT HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88

36.1						I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY	CLIENT	2/2/20186/	20/2018		_			Project Office:	Scale	AS SHOWN	
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CONTACTS:	
LESLIE DELLANGELO – PROJECT EI BARR ENGINEERING CO. PHONE: 952–832–2720 FAX: 952–832–2601 EMAIL: LAD@BARR.COM	NGINEER
BRAD LINDAMAN – DISTRICT ENGIN BARR ENGINEERING CO. PHONE: 952–832–2808 FAX: 952–832–2601 EMAIL: BJL@BARR.COM	EER
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WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-1247.00 CLIENT PROJECT No.
SHEET INDEX	
& LOCATION MAP	DWG. No. REV. N G-01 B

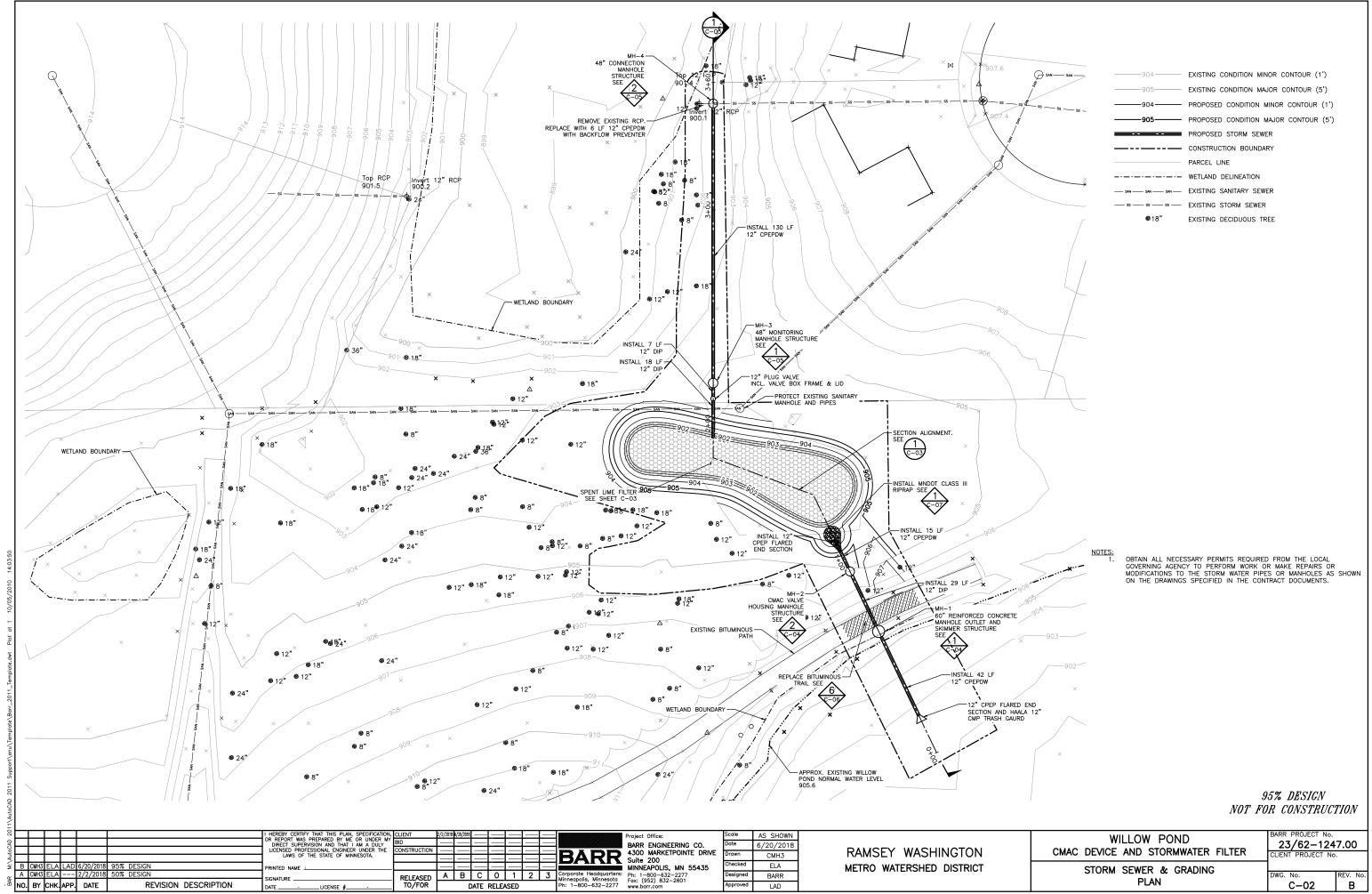


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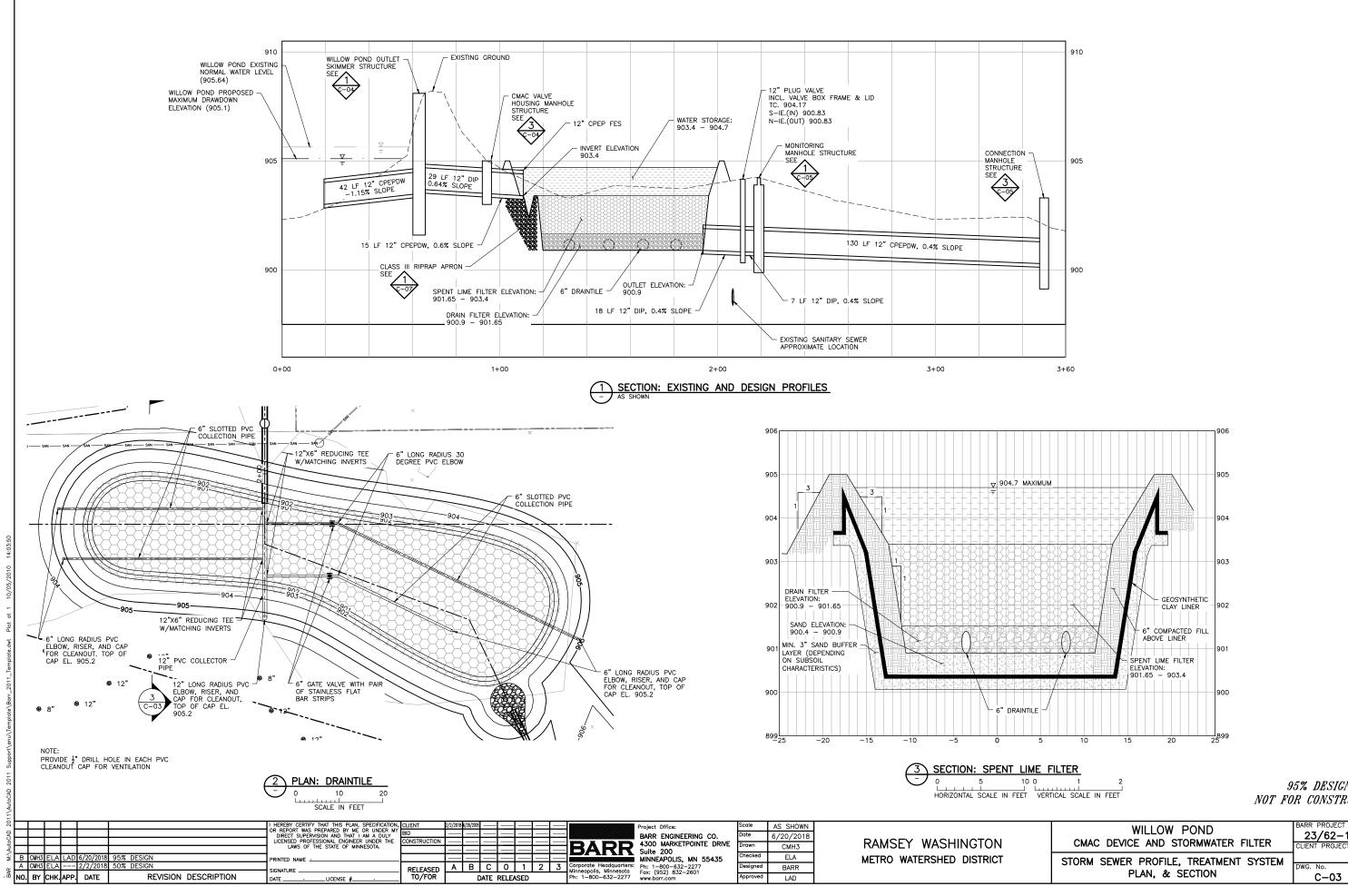
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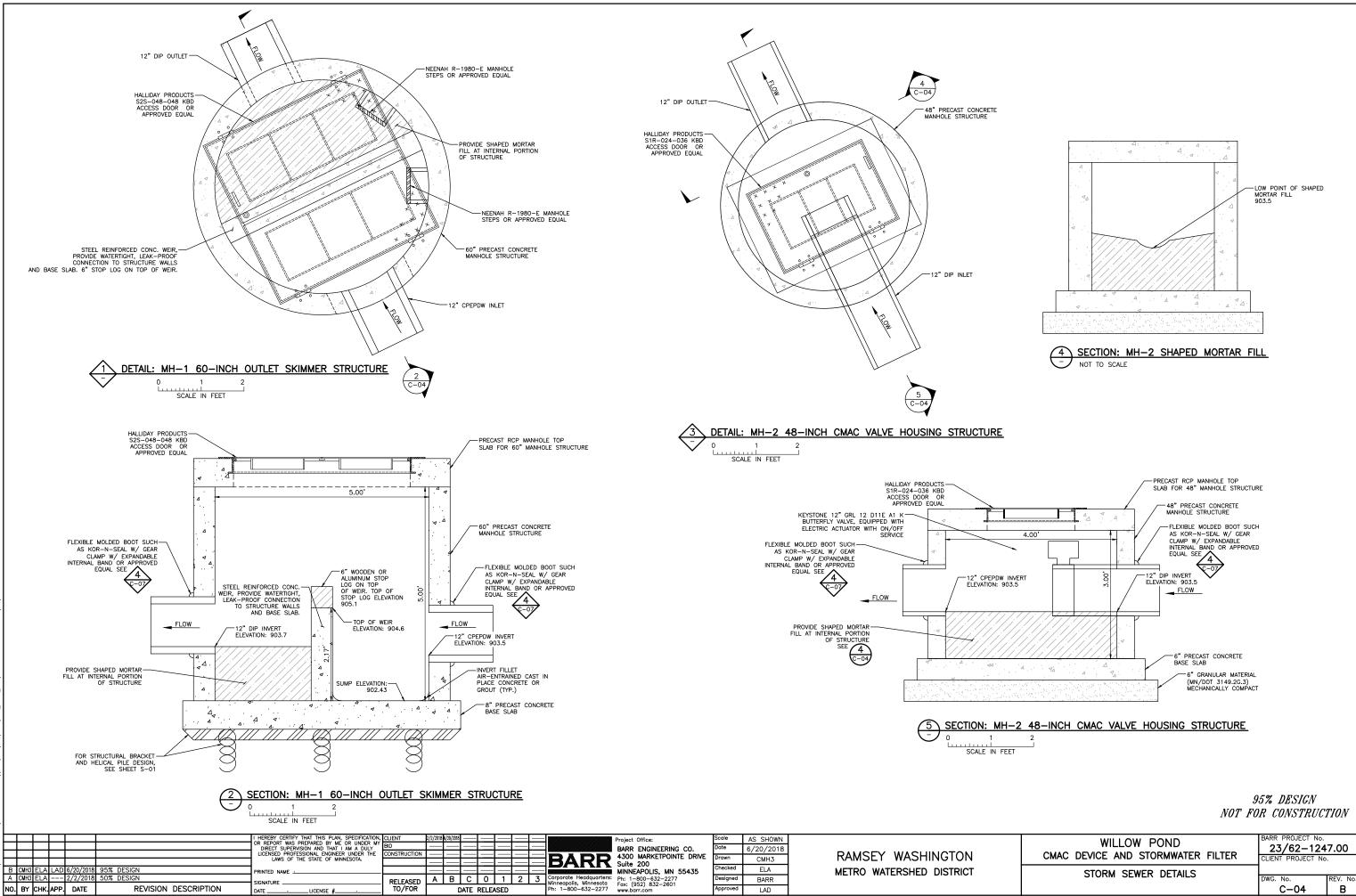
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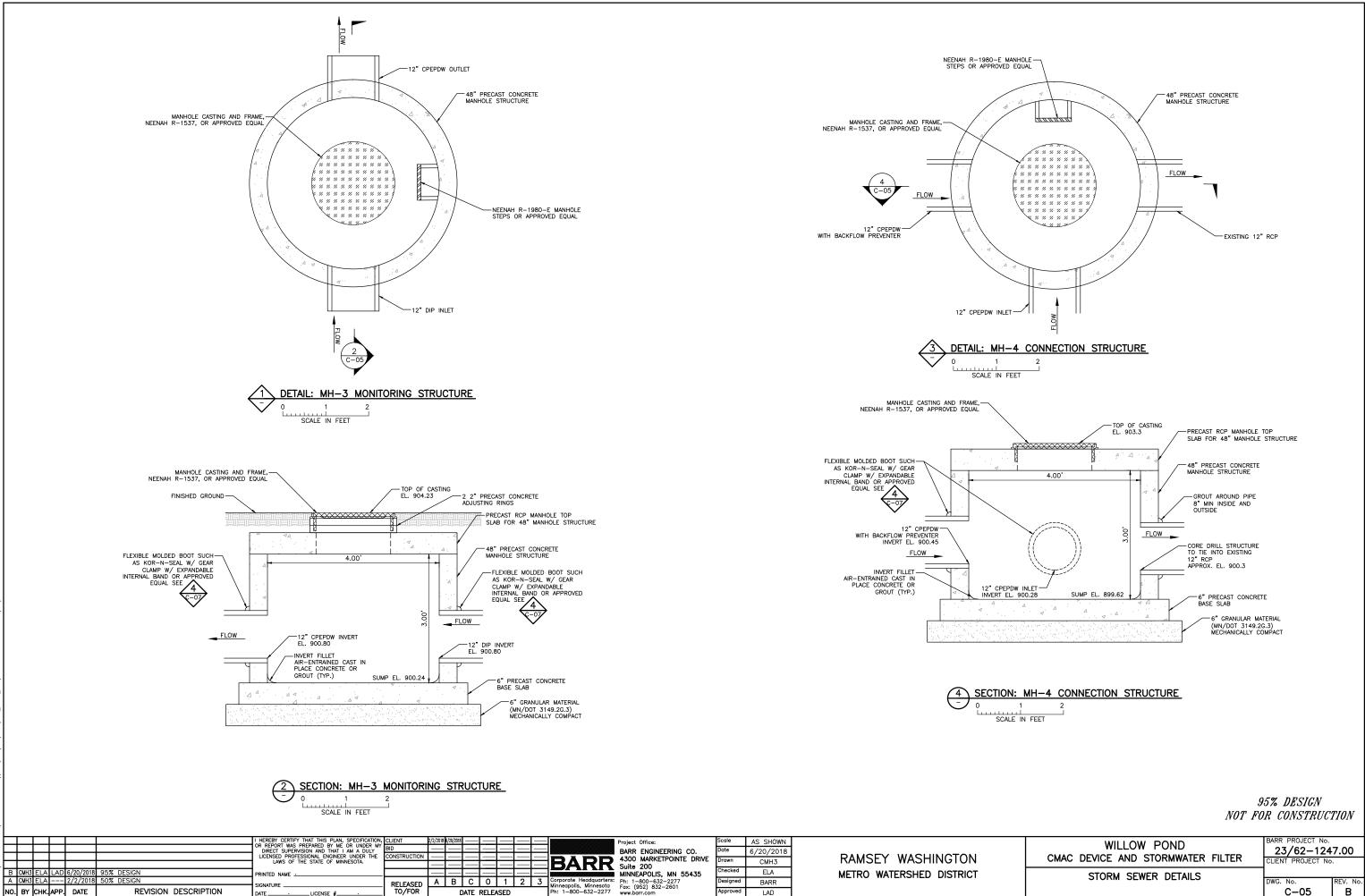
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WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-124 CLIENT PROJECT No	
STORM SEWER PROFILE, TREATMENT SYSTEM	DWG. No.	REV. No.
PLAN, & SECTION	C-03	<b>B</b>



WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-124	
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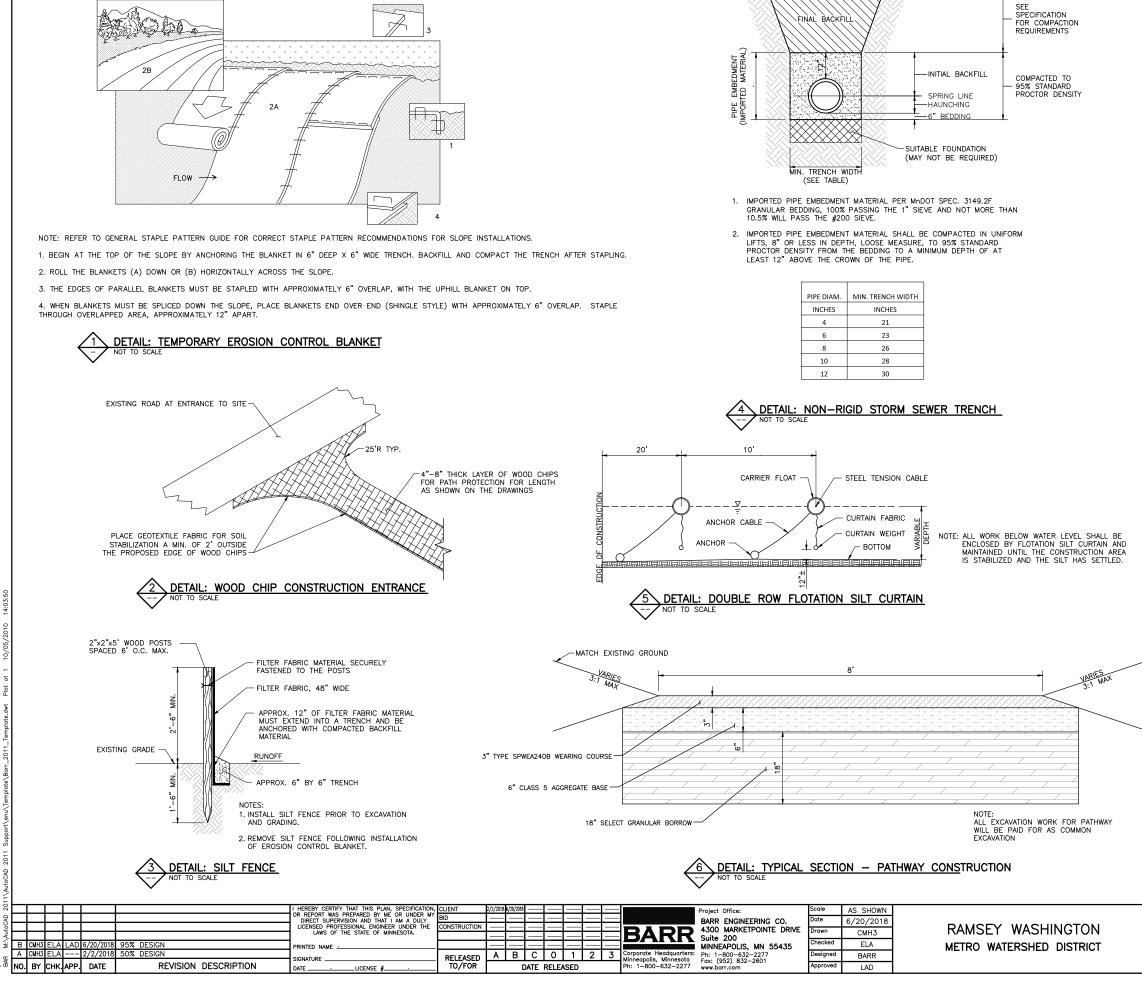
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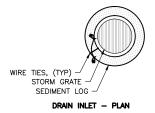
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STORM SEWER DETAILS	
STORM SEWER DETAILS	DWG. No.
	C-05



SLOPE INSTALLATION

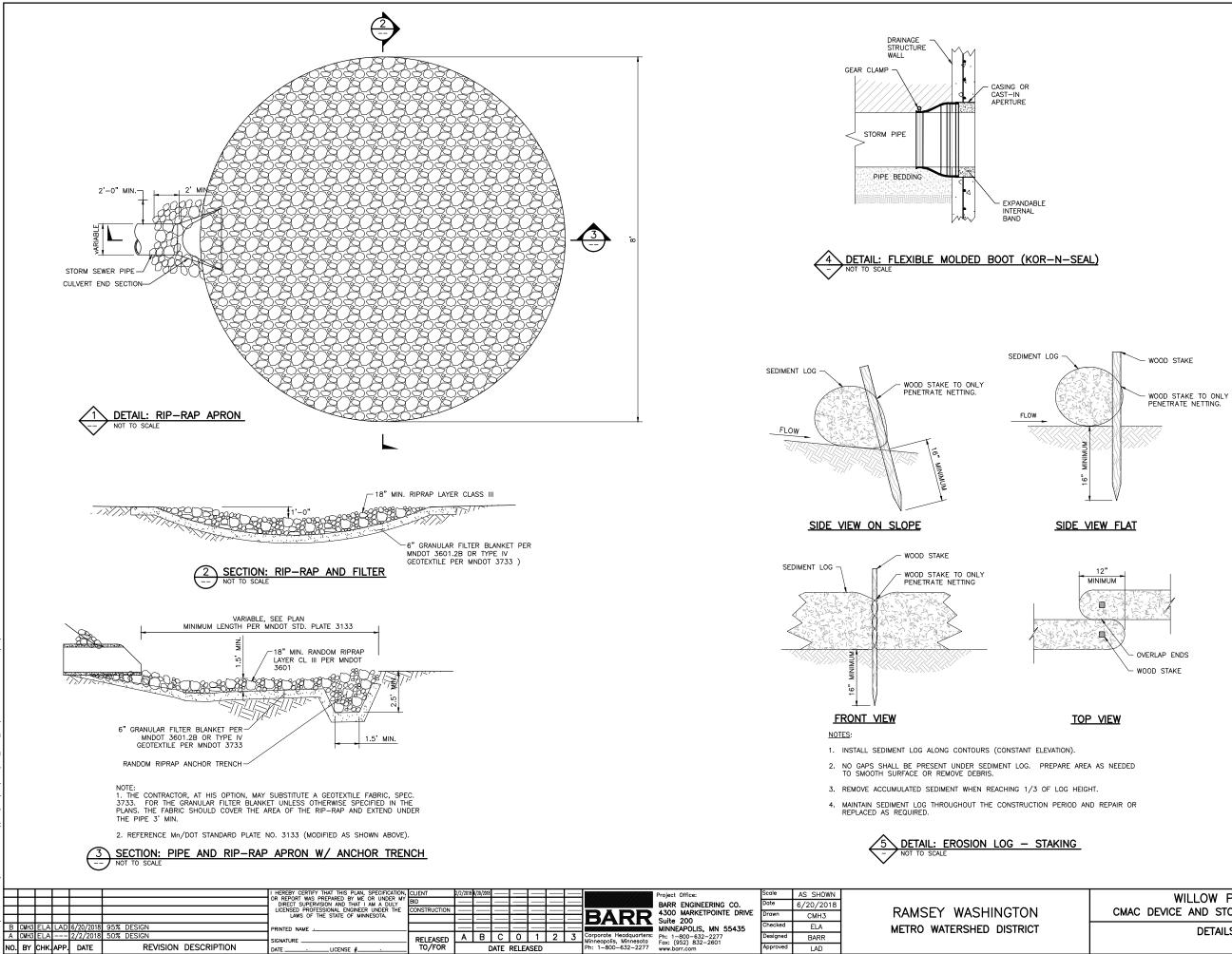


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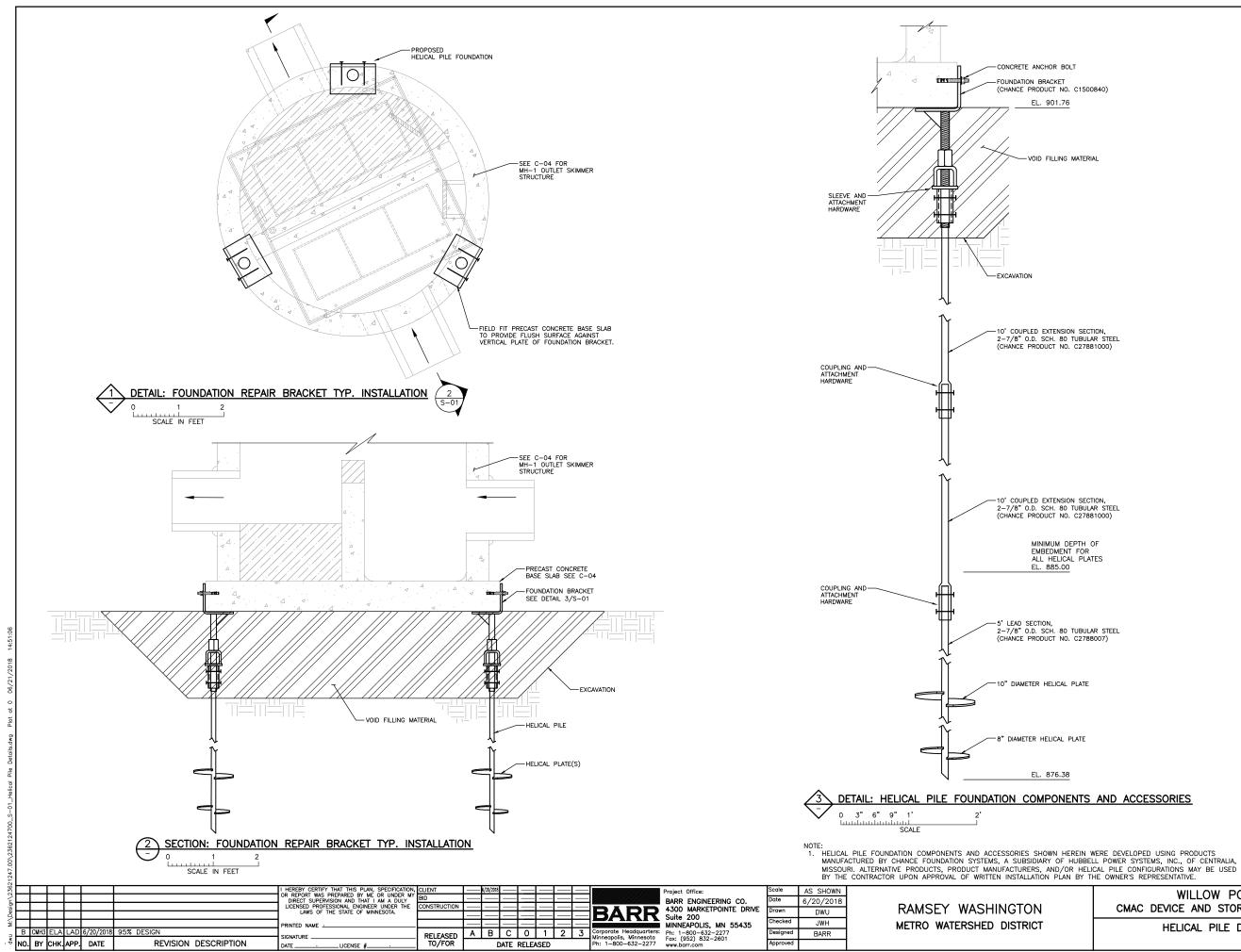
- INLET PROTECTION SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR IMMEDIATELY FOLLOWING CATCHBASIN INSTALLATION, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- MATERIALS SHALL BE SUFFICIENT TO ALLOW FLOW WHILE BLOCKING SEDIMENT. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SEDIMENT LOG.
- 3. INLET PROTECTION SHALL BE CLEANED AS REQUIRED.
- MATERIALS AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

DETAIL: INLET PROTECTION - SEDIMENT LOG TO SCALE

WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-124 CLIENT PROJECT No	
DETAILS	DWG. No. <b>C-06</b>	REV. No. <b>B</b>

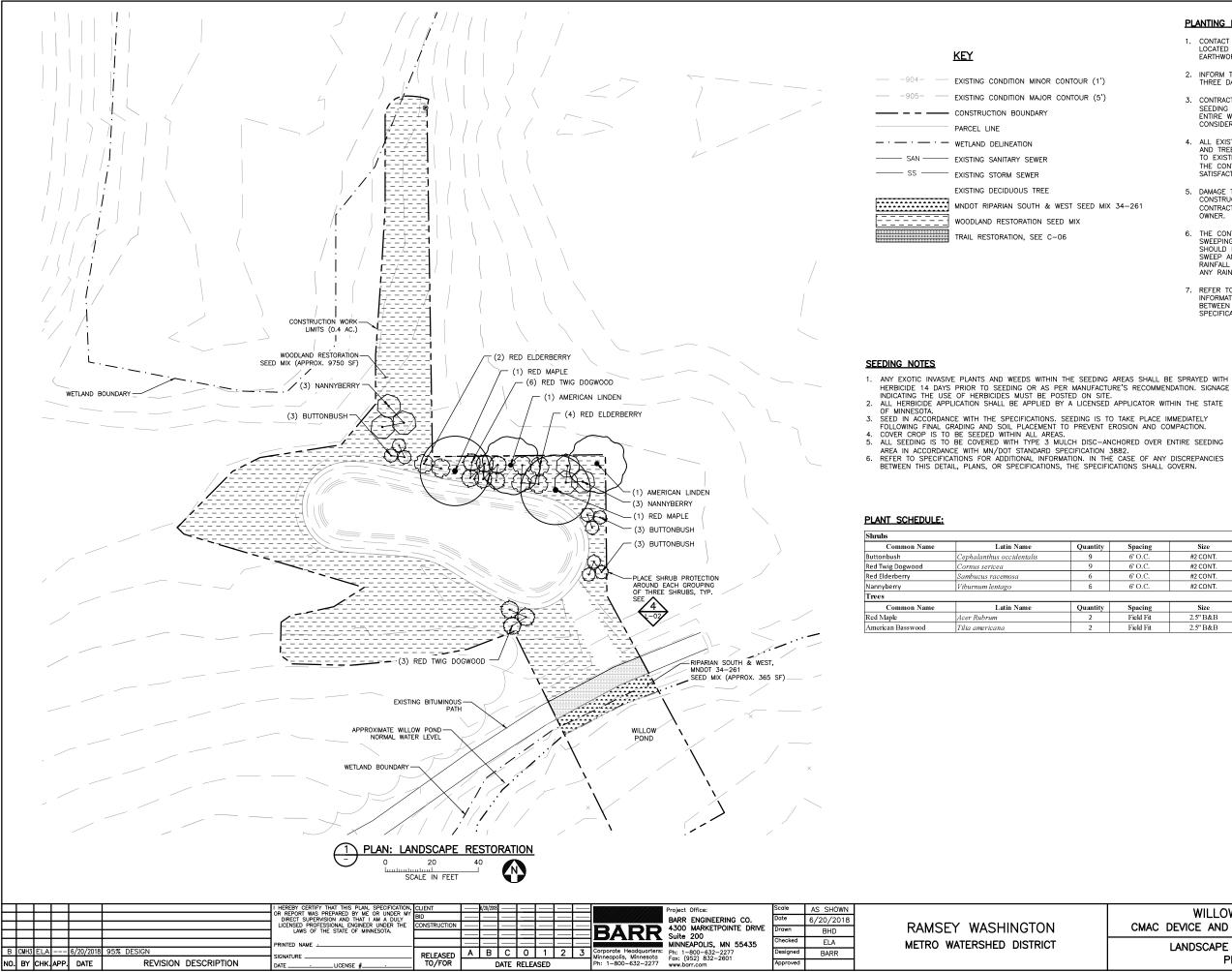


WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-124 CLIENT PROJECT No	
DETAILS	DWG. No. C-07	REV. No. <b>B</b>



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WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-124	
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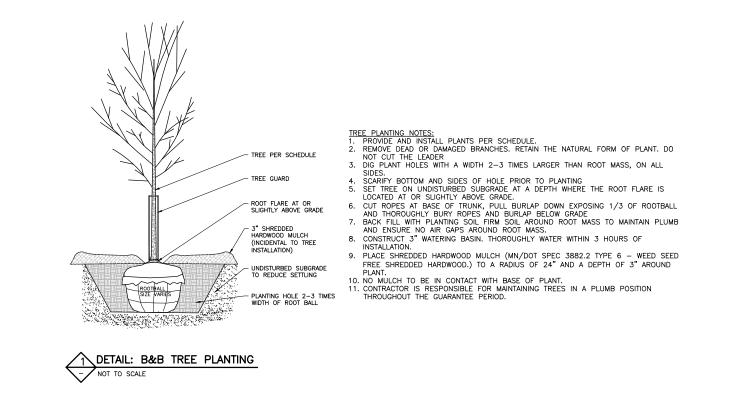


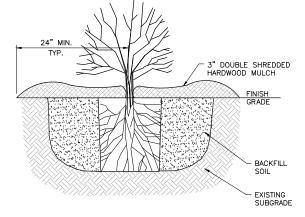
#### PLANTING NOTES:

- 1. CONTACT GOPHER ONE TO HAVE ALL EXISTING UTILITIES LOCATED WITHIN THE PROJECT LIMITS BEFORE EARTHWORK BEGINS.
- 2. INFORM THE LANDSCAPE ARCHITECT OF PLANTING THREE DAYS PRIOR TO RESTORATION ACTIVITIES.
- 3. CONTRACTOR WILL BE RESPONSIBLE FOR WATERING SEEDING (REGARDLESS OF NOTIFICATION) DURING ENTIRE WARRANTY PERIOD. WATERING WILL BE CONTREFOR NUMBERING THE CONTRACTOR CONSIDERED INCIDENTAL TO THE CONTRACT.
- 4. 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.
- 5. DAMAGE TO EXISTING STRUCTURES OR NEWLY CONSTRUCTED ITEMS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER
- 6. 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.
- 7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN THIS DETAIL, PLANS, OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.

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2	Field Fit	2.5" B&B

WILLOW POND	BARR PROJECT No. 23/62-1247.00			
LANDSCAPE RESTORATION	CLIENT PROJECT No			
PLAN	DWG. No. L-01	REV. No. B		

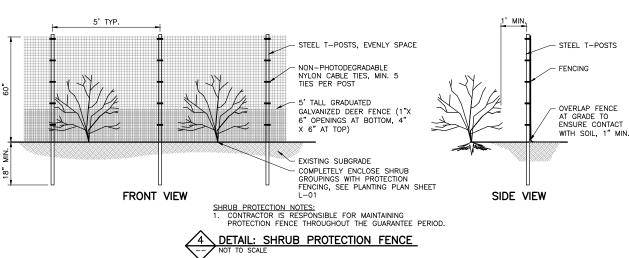




## DETAIL: SHRUB PLANTING

- SHRUB PLANTING NOTES: 1. PROVIDE AND INSTALL PLANTS PER SCHEDULE. 2. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL FORM OF PLANT. 3. IF ROOT FLARE IS NOT EXPOSED WITHIN THE
- CONTAINER EXCAVATE SURFACE SOIL TO BASE OF ROOT FLARE. 4. DIG PLANT HOLES 6" MIN. LARGER THAN ROOT

- DIG PLANT HOLES 6" MIN. LARGER THAN ROOT MASS, ALL SIDES.
   SET SHRUB ON LIGHTLY FIRMED BACKFILL SOIL SO ROOT FLARE IS EVEN WITH FINISH GRADE.
   BACKFILL WITH PLANTING SOIL FIRM SOIL AROUND ROOT MASS TO MAINTAIN PLUMB AND ENSURE NO AIR GAPS AROUND ROOT MASS.
   CONSTRUCT 3" WATERING BASIN. THOROUGHLY WATER WITHIN 3 HOURS OF INSTALLATION.
   PLACE SHREDDED HARDWOOD MULCH (MN/DOT SPEC 3882.2 TYPE 6 WEED SEED FREE SHREDDED HARDWOOD.) TO A RADIUS OF 24" AND TO A DEPTH OF 3" AROUND PLANT.
   CONTRACTOR TO WATER AS NECESSARY THROUGHOUT GUARANTEE PERIOD TO MAINTAIN IN A HEALTHY CONDITION.
- A HEALTHY CONDITION.



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NOT FO	R CONSTRUCT	TION
WILLOW POND CMAC DEVICE AND STORMWATER FILTER	BARR PROJECT No. 23/62-124 CLIENT PROJECT No.	
PLANTING DETAILS	DWG. No. L-02	REV. No. <b>B</b>

## 95% DESIGN

ROOTBALL. 3. BREAK BOTTOM OF ROOTBALL TO LOOSEN ROOTS. 4. ALIGN ROOTBALL TOP EVEN WITH SOIL – DO NOT PLANT TOO DEEP OR TOO SHALLOW. FIRM SOIL TO ENSURE GOOD CONTACT WITH ROOTS. 5. WATER THOROUGHLY AFTER PLANTING.

NOT TO SCALE

DETAIL: HERBACEOUS PLUG

HERBACEOUS PLUG PLANTING NOTES: 1. PROVIDE AND INSTALL PLANTS PER 2. EXCAVATE HOLE 3 TIMES WIDTH OF

ROOTBALL

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# Administrator's Report

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### MEMO

TO:	Board of Managers and Staff
FROM:	Tina Carstens, Administrator
SUBJECT:	July Administrator's Report
DATE:	July 2, 2018

#### A. Meetings Attended

Monday, June 4	12:00 PM	Staff training meeting
Tuesday, June 5	7:30 AM	Water Resources Conference planning
Wednesday, June 6	10:00 AM	Metro Gold Line stormwater meeting
	2:00 PM	Washington County consortium meeting
	6:30 PM	Board meeting
Tuesday, June 19	11:00 AM	Stormwater Advisory Committee planning
	12:30 PM	MIDS planning meeting
Wednesday, June 20	9:00 AM	MN Watershed Administrators (MAWA)
Thursday, June 21	8:00 AM	MAWD Summer Tour
Friday, June 22	8:00 AM	MAWD Summer Tour
Tuesday, June 26	9:00 AM	Freshwater Society re: Water Summit
	11:30 AM	Meet with Barr for 2019 planning
Wednesday, June 27	1:00 PM	Minnesota Stormwater Research Council

#### B. Upcoming Meetings and Dates

Metro MAWD	Tuesday, July 17, 2018
August Board Meeting	Wednesday, August 1, 2018
September Board Meeting	Wednesday, September 5, 2018
Board/CAC Tour	TBD
October Board Meeting	Wednesday, October 10, 2018
November Board Meeting	Wednesday, November 7, 2018
Watershed Excellence Awards	TBD
MAWD Annual Meeting	November 29 – December 1, 2018
December Board Meeting	Wednesday, December 5, 2018

July 2018 Administrator's Report Page 2

#### C. District Office Solar Project Update

The contractor has indicated that they will be starting this installation either the week of July 9th or July 16th. This project will take about two weeks to install and should be done by the end of the month.

#### D. Board and CAC Tour Planning

In the past we have planned a board and CAC tour for some time between the end of August and mid-September. Staff can plan on similar timing. I would like to get some ideas from you, the board, on locations that you would like to visit. As we are going through the project status report, it might give some ideas for locations on the tour. Also, at the meeting last month, it was suggested that we focus on projects in Washington County and invite our Washington County commissioners on the tour. This item is a prompt for discussion at the board meeting.

#### E. MAWD Summer Tour Update

The MAWD Summer Tour was held June 20-22 in the southwest metro. Riley Purgatory Bluff Creek, Lower Minnesota River, and Nine Mile Creek Watershed Districts along with the Carver County WMO hosted the event with MAWD. Managers Larry and Pam attended the event. I have attached a handout that shows what was covered on the boat and bus tours. I'd invite the managers that attended to share their experience at the board meeting.

#### F. 2019 Budget Planning

To begin the board budget process for 2019, I am preparing a preliminary budget memo for your review and input. The memo will outline budget issues and considerations for next year. The memo highlights any major additions or deletions to the budget as compared to this year. Items identified in our watershed management plan for 2019 will be highlighted for discussion.

On Monday, July 9, our internal staff training meeting will be focused on the budget and work plan for 2019. I will receive input from all staff and we will discuss our work plan for 2019 and the various budget considerations. I want to be sure to have all the input from staff as I prepare the memo for the board. I will try and send the memo to the board directly on Tuesday, July 10. And then I will bring it to the meeting and plan to walk through it for discussion.

In August, staff will provide the board with a draft budget table with projected budget and levy estimates. This information will be reviewed at the August meeting and if authorized by the board, the budget and work program will be sent to the cities and counties for review and comment. In September, the board will hold a public hearing to take comments on the budget and approve the preliminary budget and levy for certification to the counties. The final budget and levy will be approved by the board in December.

#### Southwest Metro Local Leaders Water Institute - 2018 & MAWD Summer Tour - 2018

## Minnesota River Tour lune 20

The Minnesota River flows 335 miles from Big Stone Lake on the Minnesota-South Dakota border to its confluence with the Mississippi River at Fort Snelling in Minneapolis. Its basin encompasses approximately 16,770 square miles, draining nearly 17% of Minnesota as well as portions of South Dakota, Iowa, and North Dakota. The river flows through some of the most fertile agricultural land in the world. Over 80% of the land use in the basin is for agricultural purposes. The basin is geologically primed to generate large sediment loads. Although the Minnesota River contributes only 1/3 of the flow to the Mississippi, it contributes 2/3 of the sediment.

This tour is brought to you by the Lower Minnesota River Watershed District, the Riley Purgatory Bluff Creek Watershed District, Carver County Water Management Organization, Nine Mile Creek Watershed District, and the Minnesota Association of Watershed Districts.

### Confluence of the Minnesota & **Mississippi Rivers**

Fort Snelling

Historical

WPA Workcamp

Quarry Island Fen

Fort Snelling Fen



The confluence of the Mississippi and Minnesota rivers is one of the most powerfully historic places in the Twin Cities. To the Mdewakanton Dakota it has deep historic and spiritual meaning. They called the joining of the two rivers Bdote Minisota. For some, it was their place of origin, their Garden of Eden. To early Americans it became a center of trade and military authority. The confluence is often visually striking, as the muddier Minnesota flows into the clearer Science Museum Mississippi. of Minnesota

Crosby Farm Park

#### MSP Airport stormwater outfall

The large stormwater outfall seen here drains both MSP Airport and the 494-35W interchange. Stormwater from the airport is eventually discharged here, while wastewater from the airplane deicing system is treated through a separate system.

DNR Public Access

Sorenson Landing

US Salt dock



US Fish and Wildlife Headquarters

Nicols Fen



#### **MN Valley National Wildlife Refuge**

The refuge was established in 1976 to provide habitat for migratory waterfowl, fish, and other wildlife species, and to create environmental education and recreational opportunities. Comprised of over 14,000 acres, the refuge is part of a corridor of land and water stretching nearly 70 miles along the Minnesota River, from Bloomington to Henderson, Minnesota.

#### **Black Dog Generating Station** (Xcel Energy)

At the Black Dog Generating Station, Xcel Energy uses the river for cooling its energy production facilities. The intake is screened, and has a passage to return fish to the river. After use, the water is discharged to Black Dog Lake where it cools before before returning to the river.

#### LMRWD Dredge Placement Site

The Lower Minnesota River Watershed District is the local sponsor for the US Army Corps of Engineers dredging operations. On average 25,000 cubic yards of dredge material are removed every year, keeping the river navigable for commercial and recreational navigation. The material is deposited at this site temporarily as the watershed seeks out beneficial end uses for it (the site is owned by LMRWD).

CITY OF SAVAGE

STermin Nine Mile Creek START Confluence

> Mosaic Fertilizer barge slip



## **SPEAKERS**















Steve Woods Freshwater Society Emcee for the trip

**Clint Gergen Central Harvest States** Commercial navigation challenges

**Carrie** Jennings **Freshwater Society** Hydrology and sediment transport

**Tony Hetzel** Chart Inc Impact of commercial navigation on the regional economy

Ted Suss Friends of the Minnesota Valley Land management practices

**Gerry Shimek** US Fish & Wildlife Impact of sediment on habitat

**Rylee Main** Lake Pepin Legacy Alliance Sediment in Lake Pepin Southwest Metro Local Leaders Water Institute - 2018 & MAWD Summer Tour - 2018

#### **Bus tour** lune 21

The tour is brought to you by the Lower Minnesota River Watershed District, the Riley Purgatory Bluff Creek Watershed District, Carver County Water Management Organization, Nine Mile Creek Watershed District, and the Minnesota Association of Watershed Districts.



## The Carver County Water Management Organization's (CCWMO)

function is to protect, preserve, and manage water resources within its boundaries. The CCWMO covers 320 square miles including the following watersheds: Bevens Creek, Carver Creek, East Chaska Creek, West Chaska Creek and parts of Pioneer, Sarah and the Crow River. CCWMO was established in 1996 and adopted its first Water Management Plan in 2001. Its functions include planning, funding, regulation and implementation of projects and programs to manage water resources. co.carver.mn.us/departments/public-services/planning-water-management/water-management

#### The Riley Purgatory Bluff Creek Watershed District (RPBCWD)

encompasses 50 square miles in the southwest Twin Cities Metropolitan area. It was established in 1969 and includes three distinct creek watersheds (Bluff, Purgatory, and Riley), parts of seven cities, and two counties. The district partners with local communities to identify top priorities and plan and implement efforts to manage and restore water resources. This work includes educating and engaging district residents in the shared work of protecting clean water. rpbcwd.org

### Minnehaha Creek Watershed District

#### Rice Marsh Lake: Non-point Source Pollution

Managing a lake ecosystem requires a multifaceted approach. The district utilizes a Lake Manage ment Decision Tree to guide its actions. At this stop we'll discuss non-point source challenges and solutions, including treatment with alum and how it requires an understanding of the ecology of the lake.

**Bluff Creek** 



Lake Bavaria to

> West Chaska Creek

> > **CCWMO**

Hazeltine Lake

East Chaska Creek

Lunch at **Fireman's Park** 

CITY OF CHASKA

#### Community **Stormwater Reuse System**

This is a community scale stormwater

reuse project that captures runoff from 252 acres and uses it in a municipal stormwater re-use utility network. The summer of 2017 was the first year the system was completed and running and irrigated nearby developments.

Fountain Park Project The Fountain Park

Project at Waconia City Hall treats 11.19 acres of a previously

untreated urban area with multiple best management practices, including permeable pavers, raingardens, sand-iron filters, and a tree trench. The area is a highly visible, highly visited area, and serves as a great educational and demonstration site while reducing the pollutant load to Lake Waconia.

#### Fireman's Lake Park

Fireman's Lake Park in downtown Chaska,

remove phosphorus.

next to the Chaska Event Center, has three best management practices to reduce stormwater runoff. They are raingardens, stormwater reuse and permeable pavers. They were installed in 2015 in order to meet the CCWMO's water rules.

#### **RPBCWD Office:** Building **Capacity Through Volunteers**

The district's volunteer program leverages the power of community members to effect meaningful change. It engages residents in projects that protect and improve water resources, educate the community, and build capacity to do the shared work of protecting clean water.

Meet district volunteers and explore materials they use to reach out to the community.

CITY OF CHANHASSEN

RPBCWD

ake Susan

Lake Riley

CITY OF EDEN PRAIRIE

Mitchell Lake

Minnesota River

#### Lake Riley: Fisheries & Plant Management

Managing a lake ecosystem requires a multifaceted approach. The district utilizes a Lake Management Decision Tree to guide its actions. At this stop we'll explore two components of that decision tree: fisheries and aquatic plants. A sample of live fish from lake Riley will be on-hand, as well as aquatic plants. Samples will include both native and invasive species. Guests can touch, feel, and test their identification skills.

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# Project and Program Status Reports

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resourceful. naturally. engineering and environmental consultants



#### Memorandum

То:	Board of Managers and Staff	
From:	Tina Carstens and Brad Lindaman	
Subject:	Project and Program Status Report – July 2018	
Date:	June 29, 2018	

Note: This month for the Project and Program Status Report, staff is preparing to walk through each item with an interactive type of presentation. This will include a map to show the locations of the various projects and pictures for those that are active projects.

#### Permit processing, inspection, and enforcement

Permit application inspection and enforcement (Barr project manager: Matt Kumka; Ramsey-Washington Metro Watershed District RWMWD project manager: Nicole Soderholm)

The purpose of this program is to provide engineering review and field inspection support to RWMWD staff for permitted best management practices (BMPs) that have been installed in the last several years to verify functionality. On an as-requested basis, Barr reviews previously permitted construction drawings and attends on-site inspections, with an emphasis on underground infiltration systems.

Barr and RWMWD staff reviewed construction plans based on previously performed inspections for underground infiltration projects. Inspections include determining intended functionality of underground infiltration systems and reviewing appropriate BMP features such as water-level control structures to enable water-level drawdown. Barr assisted in interpreting follow-up comments and plan updates provided by property owners as requested by the RWMWD.

#### **Project feasibility studies**

## System-wide evaluation of flood control options/Beltline resiliency study (Barr project manager: Erin Anderson Wenz; 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 involve using 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 on homes adjacent to RWMWD-managed water bodies.

This period, Barr prepared documentation summarizing the methodology, simulation results, and potential system modifications within the Owasso Basin and Gervais Creek subwatersheds to remove existing structures from the floodplain. As part of the documentation, we developed concept-level, opinion-of-cost estimates for each modification to the stormwater system. Barr estimated the low

structure elevation based on available topographic information and evaluated modifications to the system model that could potentially lower 100-year flood levels below those that impact habitable structures (i.e., homes and businesses). The first phase of the study appears to produce desired results in reducing flood levels in the Owasso Basin area without an increase to flood levels in the Phalen Chain of Lakes. Therefore, Barr will proceed to the evaluation other parts of the RWMWD in a prioritized, sequential approach once the modeled flood levels of remaining areas are validated with actual rainfall data. Staff expect that confirmation effort to be complete yet this summer.

If the study proves successful, recommendations for actual field modifications will be offered for future capital improvement programming.

## Beaver Lake, Battle Creek Lake and Lake Owasso subwatershed feasibility studies (Barr project manager: Josh Phillips; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to evaluate BMP opportunities throughout the Beaver Lake subwatershed. This study is being completed in conjunction with the Lake Owasso subwatershed and Battle Creek Lake subwatershed feasibility studies. These lakes are all considered to be "at risk" for nutrient impairment.

Barr continued the evaluation of conceptual BMP designs of BMPs at various sites within each of these subwatersheds. A brief narrative of the evaluation and resulting recommendations are being developed in draft reports for each lake and subwatershed. Those result will be offered as consideration for design and construction in 2019. We expect the reports to be complete later this summer or early fall.

## Snail Lake/Grass Lake optimization study and berm raise project (Barr project manager: Brad Lindaman; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the potential for optimization of the existing Snail Lake/Grass Lake system (from Snail Lake to Grass Lake to Highway 694), with the goal of lowering flood levels in the system's water bodies in order to reduce flood risk to habitable structures and lessen impacts to surrounding properties.

During June, the contractor remobilized to the area and restarted the work. To date (June 27), the pathway has been removed and the installation of the overflow pipe in Gramsie Road is complete. Next, the contractor will complete construction of the emergency overflow swale, berm construction, and then pathway reconstruction. Erin Anderson Wenz and Dave Vlasin will provide an oral update to the Board on July 11.

# Snail, Grass, and West Vadnais Lakes outlet permitting with the Minnesota Department of Natural Resources (DNR) (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to coordinate permitting efforts for the proposed Snail, Grass, and West Vadnais lakes outlets with the Minnesota DNR.

This period, Barr began evaluating the changes in shoreline inundation that would occur in Grass Lake, West Vadnais Lake, and East Vadnais Lake, as well as preparing other graphics that will illustrate the expected changes to these water bodies' water levels in to the future. Barr is preparing to send this information, along with a technical memo, to the DNR in July for consideration of next steps needed to further lower these lakes. Once Barr and RWMWD staff better understand the DNR's requirements, we will be able to update the project cost estimate for Board consideration moving forward.

## West Vadnais Lake to East Vadnais Lake gravity flow feasibility evaluation (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to understand the feasibility of lowering East Vadnais Lake levels and encouraging subsurface flow by gravity from West Vadnais Lake into East Vadnais Lake in order to reduce flooding in the Grass Lake area of the RWMWD. The scope of the study will give a better understanding of hydrologic dynamics between the connected water bodies, and whether lowering East Vadnais Lake is a sufficient measure to reduce flooding while meeting requirements of all involved stakeholders.

Barr is proceeding with the water-quality and geotechnical investigations for West Vadnais Lake and the berm separating it from East Vadnais Lake. We contacted St. Paul Regional Water Service (SPRWS) about its current water-quality testing program and received a suite of parameters that SPRWS requires for testing. These have been incorporated into a work plan, and a quote has been received for laboratory testing. Additionally, Barr has started planning for geotechnical soil borings, creating a work plan, and identifying access agreements that need to be obtained. The work will likely be conducted in July or August 2018.

#### Modeling of 95-percent confidence limit Atlas 14 district-wide (climate change scenario): flood map generation for future outreach efforts (Barr project manager: Erin Anderson Wenz; 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 95-percent confidence limit of the 100-year rainfall depth. The confidence limit (or uncertainty) associated with the 100-year flood elevation will be used to develop inundation maps that 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 within the RWMWD.

This period, Barr finished validating the stormwater models for the Gervais Creek, Twin Lake, Willow Lake, Kohlman Creek, Beaver Lake, Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek watersheds. We started the process of reviewing model results and preparing model documentation. In the next month, we will continue validating the stormwater models for the Phalen Chain of Lakes and the Beltline. When the validation process is complete, the models will be used to simulate design rainfall events to estimate the uncertainty in the 100-year floodplain in addition to testing possible system changes that would improve the Beltline's resiliency (mentioned above)

## Kohlman weir test system (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The purpose of this project is to test new filtration media on a routine basis.

Material was placed in May, and the first round of monitoring conducted in May. Four different media were placed in the cells: spent lime, spent lime with oxidized iron, limestone aggregate (CC17), and sand/biochar. There was measurable flow through all of the test cells except for the sand-biochar mixture. There is not enough water level difference through the weir to force water through the sand; hence, this type of media will not be useful at this site. Later this year, monitoring data will be evaluated and a technical memorandum with the results, prepared.

## Roseville High School campus stormwater retrofit feasibility study (Barr project manager: Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to evaluate the feasibility of a regional stormwater infiltration or filtration project and other local stormwater infiltration projects at Roseville High School. The school is designing an addition to the southeast end of the building, so the project will also include coordination with Roseville High School and its design engineers to place stormwater BMP retrofits.

This period, Barr collected additional information from the high school's design engineer (Larson Engineering, Inc.) and architect (LSE Architects, Inc.), including soil borings and a site survey. Next, we will review the information and develop a scope of work for completing the feasibility study.

#### **Project operations**

## 2017 Tanners Lake alum-facility monitoring (Barr project manager: Meg Rattei; RWMWD project manager: Eric Korte)

The purpose of this project is to complete monitoring and reporting required by the general National Pollutant Discharge Elimination/State Disposal System permit for municipal separate storm-sewer systems (MS4).

The alum facility was restarted in May for the 2018 season. District staff is collecting samples weekly. We have finalized the 2017 reports required by the MS4 permit, and staff will submit these reports to the Minnesota Pollution Control Agency in the near future.

#### **Capital improvements**

## Frost/Kennard enhanced water-quality treatment BMP (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens/Paige Ahlborg)

The purpose of this project is to prepare plans and specifications, conduct project bidding, and observe construction for the water-quality BMP enhancement retrofit of the existing infiltration basin located on

## the parcel owned by the City of Maplewood. The parcel is located in the southwest quadrant of the intersection of Frost Avenue and Kennard Street.

Construction is nearly complete. The filter remains offline until a backflow preventer and the monitoring equipment are installed. The backflow preventer is included as a part of a change order to be offered at the Board meeting, and will help minimize excessive sediment loads backing up into the filter from the creek, as well as better facilitate monitoring of the outflow from the filter.

Construction is expected to be completed and the monitoring equipment installed in early July or August dependent upon delivery of the specified backflow preventer.

## Wakefield Park/Frost Avenue stormwater project (Barr project managers: Erin Anderson Wenz and Fred Rozumalski; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to work with the City of Maplewood and its consultants to develop a site plan that involves stormwater management features with associated educational elements for the northern portion of Wakefield Park.

Barr recently met with Maplewood parks and engineering staff to present a concept for BMP layout in Wakefield Park. The city was excited about the project and approved the layout of two fairly large infiltration basins within the park. We are set to run a water-quality model of the project, but significant water treatment is expected. The site has very sandy subsoils, so a significant amount of volume control will be accomplished. A feasibility report will be produced by July 13 for city staff to submit to the city council.

## School, commercial, and faith-based sites best management practice 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.

Surveying is nearing completion on six sites throughout the RWMWD, including Cornerstone Montessori, Boys and Girls Club Eastside, and Roosevelt Community Center in St. Paul; New Horizon Day Care in Woodbury; House of Prayer Lutheran Church in Oakdale; and the Roseville School District office. These sites were identified with the BMP incentive fund program. Barr is developing concept designs for each of these potential BMPs. Property owners will review the concepts prior to further design to verify complete buy-in to the BMP program, and to offer additional support for outreach and education opportunities within their organizations. It is planned that New Horizon Day Care, House of Prayer, and the Roseville School District office will have BMPs constructed later this fall, while the BMPs on the other sites will be constructed in 2019.

#### BMP incentive fund: general BMP design assistance and review (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to respond to requests for assistance to find cost-share opportunities from RWMWD partners and to seek out opportunities for cost-share projects throughout the RWMWD.

Barr continues to update the mobile geographic information system (GIS) mapping program that focuses on underserved communities within the watershed. These areas consist of neighborhoods within the RWMWD that are not well represented in terms of existing water-quality improvement projects, as well as communities of higher diversity and lower incomes. The GIS mapping helped identify several potential BMP projects within the RWMWD's portion of St. Paul, including the Boys and Girls Club Eastside on Ames Avenue. Design development for these sites has moved into the school, commercial, and faith-based sites BMP retrofit project (see above), and work will continue under that task item moving forward. Through another round of site visits based on the mapping efforts, we identified three more commercial sites for BMPs, including warehouse facilities and an office park in Oakdale. The RWMWD is conducting the initial outreach to property owners.

Barr is planning additional site reviews in the coming weeks to identify additional BMP locations.

## Phase 1 implementation from Owasso Basin improvements feasibility study (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

#### The purpose of this project is to evaluate flood control options for Owasso Basin and the surrounding area.

In June, Barr completed its evaluation of alternatives for flood control in and around Owasso Basin. As described last month, we are using the RWMWD XP-SWMM hydrologic and hydraulic model of Grass Lake, Owasso Basin, and surrounding areas to evaluate how much additional storage would be required to keep the 100-year, 96-hour storm event (which was determined to be the critical event for the area) from overflowing the berm along the western edge of Owasso Basin, and from flooding the North Star Estates mobile-home park on the basin's south side. We also evaluated options that would divert flows to other locations without raising the potential for further flooding downstream. Barr created a technical memorandum for the RWMWD that describes the various options and their costs and benefits. This project is linked to the system-wide evaluation of flood control options and Beltline resiliency study, described above. Essentially, this project serves as the first phase of the Beltline resiliency study.

#### **CIP project repair and maintenance**

## Beltline and Battle Creek tunnel repair construction services (Barr project manager: Nathan Campeau; RWMWD project manager: Dave Vlasin)

The purpose of this project is to perform ongoing maintenance and repairs of the Beltline tunnel system to significantly increase the service life of the tunnel.

During this period, PCi Roads completed punch-list and restoration items. We anticipate that the final contractor pay application will be submitted to the Board at the August meeting.

During the next period, Barr will complete the construction report.

### CIP maintenance/repairs 2018 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 MS4 requirements.

No additional work was performed during this period, as the contractor has redirected efforts to the Grass Lake berm area. We anticipate that the capital improvement plan 2018 maintenance and repair work will wrap up later in July, after the Grass Lake berm work is complete. Work remains at Battle Creek Lower Ravine Park, and at the West Vadnais Lake pipe upsizing in Vadnais Boulevard and trash rack installation at the I-694 15-inch diameter outlet.

#### Natural Resources Update – Bill Bartodziej and Simba Blood

#### Keller and Ponds of Battle Creek Golf Courses

Our partnership with Ramsey County centering on the restoration and maintenance of substantial natural areas on the golf courses is working out very well. NR staff continues to provide technical services, and Ramsey County Parks and Recreation is funding a shared ecological restoration intern. Many restoration sites on Keller Golf Course are maturing nicely, and thus, we are seeing the number of maintenance hours decline. This mainly has to do with more cover of native vegetation, and less weed invasion. Because of this, we are able to shift a bit more resources into the management of natural areas on the Ponds of Battle Creek Golf Course. The superintendent of the Ponds Course, Justin Zimmerman, is very motivated to create high quality natural areas, using Keller as an example of what can be done. Over the next few weeks, we will be assisting Justin with the seeding of several acres of wetland buffer. These areas are associated with high quality wetlands. We are really happy to see Justin promote this sort of land management, and NR staff be able to work in partnership with the County over the long-term.



*Left: Monarch on swamp milkweed with flowering oxeye in the background. Right: Pale purple coneflower is now in full bloom around the watershed – hole 14.* 



Spiderwort in full bloom on hole number 16.



The number of butterflies on the course is impactful, even to the casual observer.



Superintendent Paul Diegnau said the prairies have never been so stunning.



Using fire to prepare a restoration site for native seeding - Ponds of Battle Creek Golf Course.

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#### Public Involvement and Education Program – Sage Passi

#### WaterFest: A Celebration in the Rain! Going with the Flow!

Implementing an event like WaterFest demands a "village". Every volunteer slot Debbie Meister envisioned was filled and we had plenty of people to help us pull off this community fest. Junior ROTC members were out in full force. These high school students, dressed in brightly colored turquoise shirts were everywhere, helping with exhibit set up and take down, assisting in games, passing out Passports, and making sure we were honoring our Zero Waste



commitment to mention just a few roles they played. Dozens of local organizations and partners joined in the festivities to create the backbone of this event held on June 2. Thank you to everyone who contributed their time and energy, came to have fun and helped us celebrate the many facets of water.



#### L'Etoile du Nord Takes on the Challenge - A Beaver Lake Neighborhood Street Clean-up

To top off their spring Adopt A Drain campaign to encourage their neighbors to the east of their school, to keep their storm drains clean, three L'Etoile du Nord School fourth grade classes "swept" their way through a six block area between Ruth and Edgewater Blvd on June 6, cleaning up organic material (seeds, grass clippings and dirt), plastic and garbage next to all the storm drains on their way to their final destination – Beaver Lake. By the

end of the morning, they had amassed two carloads of organic material that was taken to the Duluth and Case compost site. It was a graphic lesson in measuring the effort it takes to keep this volume of "pollution" from entering storm drains and contributing to the phosphorus level in their neighborhood lake. Thank you to the parents, Master Water Stewards and other volunteers who helped us with this community service learning experience.

#### Summer Outreach - A Woodbury Triple Header- Two Rain Gardens and a Dip in a Lake

On June 19, a neighborhood "drop in" night and tour at several rain gardens recently installed in the Woodbury neighborhood was held near Battle Creek Lake. At one of the stops, neighbors gathered at the home of Mitzi Knutzen to see the flowers in bloom in this Master Water Steward capstone rain garden project overlooking Battle Creek.

The Master Water Stewards and staff shared tips about



growing native plants and landscaping for water quality, and then moved on to Woodbury Elementary School where we held a "casual" reunion of sorts that gave us an opportunity to witness how the large rain gardens installed this fall are progressing. This event was coupled with a field night for Woodbury kids and parents to learn about water quality through a lake dipping experience at nearby Shawnee Park that was organized by EMWREP staff.



*Lauren Haydon, Washington Conservation District educator prepares macroinvertebrate samples at Battle Creek Lake for families to investigate.* 

#### Beaver Lake Neighborhood Celebration - No rain in sight!



District 2 Community Council in St. Paul invited RWMWD to partner with them for a picnic and get-together on June 27 at Beaver Lake to get to know the community, provide resources and information about our cost-share program and engage in conversation with neighbors with an interest in installing rain gardens and making their yards more resilient.

On the left, Master Water Steward Chris Strong talked with a neighbor,

Victoria Caprioni, who lives near the lake and learned that she is planning to nominate her yard for a LEAP Award this year. Victoria reported that she has also adopted several storm drains near her yard. LEAP winner Kristi Odland was also on hand to help guide neighbors to our table.

#### Sun Ray Library - A Demonstration Site Provides Training Ground for Urban Roots

David Woods, Urban Roots Conservation Program Manager helps interns ages 14-18 learn to identify native plants in the Sun Ray pollinator garden adjacent to the east St. Paul Library's parking lot.

While driving back from Woodbury, Sage Passi, on a whim, decided to stop by and see the pollinator garden she heard about this fall at the Recognition Dinner. "It was a moment of synergy when I drove up and saw the Urban

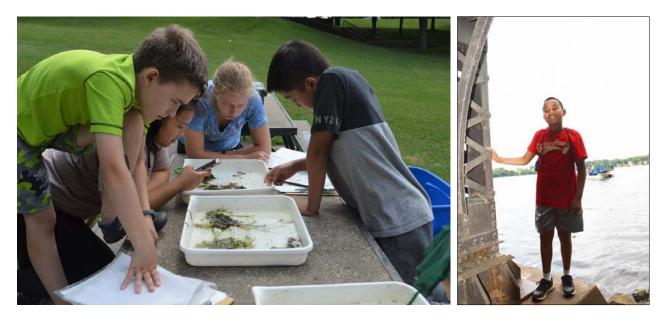


Roots crew working in the garden." I ended up joining in the effort to help these new interns identify plants and do invasive removal.



"The garden is quite beautiful with a lot of diversity. The garden has at least 40 different species." The library has also installed two rain gardens near its parking lot entrance. Urban Roots youth were responsible for the installation of the pollinator garden and help take care of it. The library uses it for education. Looks like a good site for a LEAP nomination!

#### Northeast Youth and Family Services Partners with Watershed on Summer Camp



Northeast Youth and Family Services asked RWMWD to work with them on a summer camp for Roseville youth related to water quality and lake health. During the camp, students learned some basic sampling techniques and made visual observations regarding flora, fauna and pollution to compare the lake quality of three lakes in the area including Lake Phalen, Lake McCarrons and Como Lake. The presence of a harvester on Lake Phalen provided a good teachable opportunity to learn about the relationship between invasive aquatic plants and water quality.

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#### **Communications Update – Chris O'Brien**

#### Phalen Group Paddle on June 30

To promote outdoor recreation and our Phalen Chain Water Trail Map, we hosted a group paddling event Saturday, June 30. We partnered with Saint Paul Parks and Recreation, which co-hosted the event, featured it in their June newsletter and promoted it to youth in their <u>Right Track</u> program.



The event generated lots of interest, particularly among Saint Paul youth who don't normally have access to watercraft. The District covered the rental cost of ten Saint Paul Parks canoes, which were reserved quickly with more than 60 people on a wait list.

The event went smoothly thanks to a great lineup of volunteers, and the weather was clear and calm (albeit hot and muggy). While we ended up with less participants than expected, possibly due to the heat, we still had an enthusiastic group paddling from Phalen Beach, through Round Lake to Keller Creek and back. Several paddlers remarked they had no idea there was so much scenic water to explore outside of the main lake.

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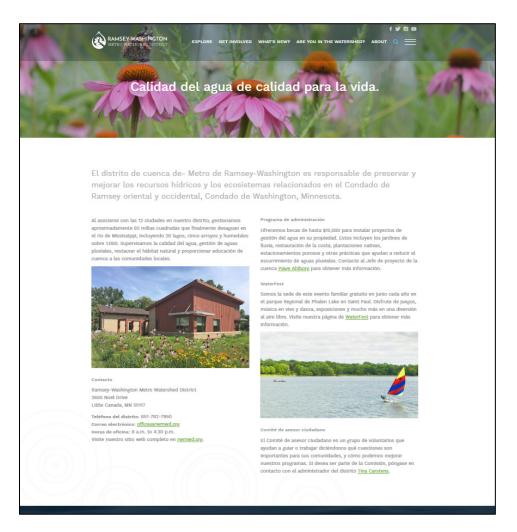
#### Stewardship Grant Program outreach to East Side businesses

As part of our equity initiative, we developed and delivered a presentation to the East Side Area Business Association at their monthly meeting on June 12. This was an opportunity to engage with Saint Paul business owners, provide background on our watershed district, and explain how they could apply for stewardship grants to improve their properties.

Parking lot improvements were of particular interest to several business owners, and site visits have since been conducted at two East Side properties. The goal is identify those sites where porous pavement, tree trenches, rain gardens or other projects could help alleviate drainage issues and increase water infiltration.

#### Website enhancements

We are close to launching multilingual "microsite" pages, which will provide basic information about the District in Spanish, Hmong, Somali and Karen languages. In addition, we will have an animated feature on the homepage that rotates our "Quality water for quality life" tagline through several languages and then back to English. The goal is to make the site welcoming to the immigrant populations we serve.



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Also new on the website, an overview of the planned <u>Willow Pond</u> spent lime filter is up on our "Current Projects" section. We'll continue to add detail and photos as this project moves along. On the homepage, we added a callout for Landscape Ecology Award Program (LEAP) nominations, plus a featured link to the new "Getting to Know Shallow Lakes" video.

#### Wakefield Lake video

The City of Maplewood released a <u>video</u> on the new Wakefield Lake spent lime filter, featuring interviews with District staff and Erin Anderson Wenz from Barr Engineering. We worked closely with their communications team to coordinate video footage, and then promoted the video through our website, email list and social media channels.

#### **Owasso Carp update**

With information from Bill and the Natural Resources team, we posted a detailed update on <u>Lake</u> <u>Owasso Carp management</u> June 12. This included a recap of last season's population survey, carp tracking and netting, along with the installation of carp barriers this spring. This follows the *Star Tribune* story we coordinated on carp management that ran in May.

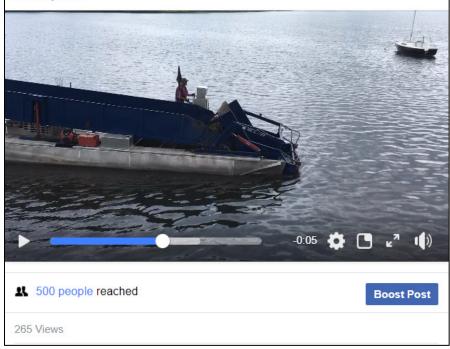
#### **Other highlights**

Our top social media post in June was a Facebook video of aquatic plant harvesting on Lake Phalen, which reached 500 people.

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Ramsey-Washington Metro Watershed District Published by Chris O'Brien [?] · June 20 at 2:44 PM · S

If you've been out to Lake Phalen lately, you may have seen this beast of a machine harvesting aquatic plants. We met with Saint Paul Natural Resources last week to map out target areas for removing invasive species around access points and other recreational areas while avoiding stands of native plants.



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Lillie News published a <u>gallery of photos</u> from WaterFest featuring some great shots taken by Anita Jader.



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# Informational Items

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#### Soil & Water Conservation division to join Parks & Recreation department

The Ramsey County Board of Commissioners voted today to approve the final administrative actions necessary to proceed with the transfer of duties and authorities of the Ramsey Conservation District to the Ramsey County Board of Commissioners.

The action follows Governor Dayton's signing of <u>legislation</u> on May 19 to discontinue the Ramsey Conservation District and transfer assets, contracts and employees to Ramsey County.

"We thank the legislature – especially sponsors Representative Fenton and Senator Laine – and Governor Dayton for taking action to transfer the duties of the Ramsey Conservation District to the Ramsey County Board of Commissioners," said Ramsey County Board Chair Jim McDonough. "We are confident that we have the long-term organizational stability and resources to continue and expand the valuable programming and services that the skilled Conservation District staff provide to our community. We also look forward to continuing coordination with the Board of Water and Soil Resources and appreciate their assistance and support."

The transfer effective date is July 1, 2018.

In preparation, Ramsey County assembled a multi-department team - including Ramsey Conservation District employees - to work collaboratively to integrate Conservation District functions into the county's organizational structure. The outcome of that process is for the Ramsey Conservation District to become the Soil & Water Conservation division of the Parks & Recreation department. Both groups have a natural resource-based mission which aligns well with the county's goal of environmental stewardship.

The Conservation District conserves and enhances natural resources by providing technical, financial, and educational support to residents, property owners, and state, local, and federal governmental agencies and environmental organizations. All Conservation division staff will continue working from the current Arden Hills office location.

Jon Oyanagi, <u>Parks & Recreation</u> Director, said, "We welcome the addition of this important work to the parks department and anticipate a smooth transition for the team. Most importantly, the mission and workplan will continue uninterrupted and we are fully committed to effective water and related land resource management within the county."

Partners, including the Board of Soil and Water Resources and Minnesota Association of Water Conservation Districts, will continue to work with the same employees during this transition. The Parks & Recreation department oversees Ramsey County's 6,500 acres of parkland and recreational facilities, manages natural resources and facilitates recreational programming.

Contact: John Siqveland, Public Communications Director, 651-746-9250.