



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

September 2019 Board Packet

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Agenda

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RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

Regular Board Meeting Agenda

Wednesday, September 12, 2019

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 August 7, 2019
4. **Treasurer's Report and Bill List**
5. Visitor Comments (limited to 4 minutes each)
6. Permit Program
 - A. Applications
 - i. **19-37 Contanda Terminal Berm Repair, St. Paul**
 - ii. **19-38 McKnight Road – Anchor Block Commons, North St. Paul**
 - iii. **19-39 Wooddale Flex Building, Woodbury**
 - iv. **19-40 Luther White Bear Lake Subaru Parking, Vadnais Heights**
 - v. **19-41 Margaret Street Apartments, North St. Paul**
 - B. Enforcement Action Report
7. Stewardship Grant Program
 - A. Applications
 - i. **19-23 CS Hoffman, rain gardens and native habitat planting**
 - B. Discussion item: Additional Fund Approval Memo
 - C. Budget Status Update
8. **2020 Preliminary Budget and Levy Public Hearing**
9. Action Items
 - A. **Approval of the 2020 Preliminary Budget and Levy Certification to Ramsey and Washington Counties – Resolution 19-02**
 - B. **Change Order No. 2 – CIP Maintenance and Repair 2019**

10. Administrator's Report
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Board Brainstorm Meeting – Monday, September 16
 - D. Manager Per Diems
11. Project and Program Status Reports
 - A. New Project Scope: Twin Lake Outlet Feasibility Study
 - B. Ongoing Project and Program Updates
 - i. Twin Lake Emergency Response Management 2019
 - ii. Owasso County Park
 - iii. Beltline Resiliency Study
 - iv. FEMA Flood Mapping
 - v. Snail, Grass and West Vadnais Lakes Outlet Permitting
 - vi. 500-Year Atlas 14 Modeling
 - vii. Wetland Restoration
 - viii. Auto Lake Monitoring Systems
 - ix. Maplewood Mall Monitoring
 - x. Spent-Lime Pond Research Project
 - xi. Iron Aggregate Pond Application Research
 - xii. Wakefield Park/Frost Avenue Project
 - xiii. Targeted Retrofit Projects
 - xiv. Targets and Motel 6 Targeted Retrofit Projects
 - xv. Willow Pond CMAC
 - xvi. Cottage Place Wetland Restoration
 - xvii. Aldrich Arena Site Design
 - xviii. CIP Maintenance and Repair 2019 Project
 - xix. Natural Resources Program
 - xx. Education Program
12. Informational Items
13. Report of Managers
- 14. Adjourn**

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

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Consent Agenda

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RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting August 7, 2019

The Regular Meeting of August 7, 2019, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

PRESENT:

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

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Amanda Staple, Recording Secretary
Eric Korte, Water Quality Monitoring Coordinator
Nicole Soderholm, Permit Inspector
Dave Vlasin, Water Quality Technician
Kyle Kubitza, Water Quality Intern
Mary Fitzgerald, District Inspector Intern

Paige Ahlborg, Project Manager
Brandon Barnes, Barr Engineering
Bill Bartodziej, Natural Resource Specialist
Viet-Hanh Winchell, Attorney for District
Burt Johnson, Twin Lake Resident
Bruce Copley, Crestview Resident

1. CALL TO ORDER

The meeting was called to order by President Ebensteiner at 6:31 p.m.

2. APPROVAL OF AGENDA

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

3. CONSENT AGENDA

A. Approval of Minutes from July 3, 2019

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

4. TREASURER'S REPORT AND BILL LIST

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve the August 7, 2019, bill list as submitted. Motion carried unanimously.

5. VISITOR PRESENTATIONS

Bruce Copley stated that he is present to hear the Beltline Study presentation. He stated that the previous time he attended a meeting there were many residents from Twin Lake in attendance. He stated that Crestview looks at

what happened at Twin Lake as a positive opportunity, as that has shown that pumping downstream can be done without negative effects. He stated that residents would like to see that same thing done with the Grass Lake/West Vadnais area. He expressed support at looking at the options in more detail to get more water downstream.

President Ebensteiner asked how often Mr. Copley is in communication with residents in his neighborhood and how many neighbors. Mr. Copley stated that he often sees neighbors at gatherings and regularly communicates with about 50 neighbors through email and his newsletter. He stated that about eight people handle the majority of work in the larger group of 50, similar to a homeowner's association but more informal.

Burt Johnson stated that the Twin Lake Association was recently formed because of the recent issues and is composed of the 33 property owners along the lake. President Ebensteiner asked the number of homes that could be impacted by flooding. Mr. Johnson replied that two homes have been sandbagged and two additional homes were close to being sandbagged. He stated that many more homes could be at risk. He also stated that they are pretty sure there is now milfoil in the lake. He stated that they are aware that the District is working on many of the concerns of the residents of Twin Lake, including the possibility of routing water from West Vadnais around Twin Lake. He stated that he believes that the water from West Vadnais has introduced invasive species to the lake. He stated that the association would also like to see an outflow reestablished. He stated that he would personally like to help in any way that he can, whether that is speaking with MnDOT officials or elected representatives. He stated that there are also lakeshore restoration and invasive species issues that need to be addressed. He invited Managers and/or staff to come to a meeting with the lake association in order to have a dialogue and improve communication. He believed that would be much more productive.

President Ebensteiner agreed that both groups have the best objectives in mind. Tina Carstens stated that she is more than happy to have staff meet with the association members and then bring an update to the Board.

6. PERMIT PROGRAM

A. Applications

Permit #19-33: Battle Creek Playground – Maplewood

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #19-33. Motion carried unanimously.

Permit #19-34: 3M Building, 301 H Annex – Maplewood

Motion: Lawrence Swope moved, Dr. Pam Skinner seconded, to approve Permit #19-34. Motion carried unanimously.

Permit #19-35: 17th and 3rd Townhomes – North St. Paul

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #19-35.

Further discussion: Manager Ward noted that this permit included a number of critical provisions and asked if there is a reason that this was included on the agenda rather than postponing. Nicole Soderholm noted that special provision two can be easily accomplished. She noted that the remaining provisions are fairly typical provisions. She noted that the soils information has also been reviewed, relating to provision six.

Motion carried unanimously.

Permit #19-36: Luther Cadillac – Vadnais Heights

Manager Aichinger referenced the wetland delineation which stated that there were no wetlands identified but yet Wetland Conservation Act approval was received. Nicole replied that the approval was related to approval of the delineation and no wetland determination.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #19-36. Motion carried unanimously.

B. Monthly Enforcement Report

During July, seven notices were sent to address: install/maintain inlet protection (1), install/maintain perimeter control (2), install/maintain construction entrance (1), stabilize exposed soils (1), contain/dispose of liquid and solid waste (1), and remove discharged sediment (1).

7. STEWARDSHIP GRANT PROGRAM

A. Applications

Permit #19-19 CS: Negosso – Rain Garden, Porous Pavement, Habitat

Manager Swope asked why there is a \$15,000 limit as requests continue to come forward in excess of that amount and the Board is approving the requests. Manager Ward stated that because of the limitations on the policy, the reasons to allow excess should be clearly specified. Manager Swope agreed that the limit should either be raised, or clear rules should be laid out that identify the reasoning to allow additional funds to be requested. President Ebensteiner stated that these are private homeowners and it would make sense that \$15,000 is a good limit and if that is going to be exceeded the Board should discuss the request.

Manager Swope stated that his issue is with consistency and believed that if exceptions are going to be made there should be rules. Tina Carstens stated that the exception is included in the board packet write up and includes that this project would handle water from two properties. She noted that instead of completing the project in two phases, this is being completed at one time for a lesser cost. Manager Ward stated that it would be helpful to include information on exceptions for homeowners that might be interested. Paige Ahlborg stated that she could easily share that information.

Motion: Lawrence Swope moved, Dianne Ward seconded, to approve Permit #19-19 CS. Motion carried unanimously.

Permit #19-20 CS: Kohlman Chain LVMP – Aquatic Vegetation Harvesting

Paige stated that the lake associations along the chain would like to do a lake survey to determine potential next steps. She noted that this study would be the starting point.

President Ebensteiner stated that it was her understanding that in the past there was discussion with this group on the topic and the determination was made that the group should make a plan. Bill Bartodziej confirmed that this study is the first step as previously discussed. He reviewed the different steps that had been previously discussed and the possibility of cost-sharing of the different steps.

Manager Aichinger asked for details on the applicant group listed. Bill replied that the group is receiving grant funds from that non-profit organization in addition to the contribution from the District and shoreline property owners. He stated that a third-party consultant will develop the plan and then he and Paige will continue to be involved, as well as a representative from the DNR and Ramsey County.

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve Permit #19-20 CS. Motion carried unanimously.

B. Budget Status Update

No comments.

8. ACTION ITEMS

None.

9. PRESENTATION: BELTLINE RESILIENCY STUDY

Brandon Barnes, Barr Engineering, provided an update on Twin Lake water levels and the steps that have been taken since the last Board meeting. He reported that the City of Little Canada selected 871 as the target water level due to the location of sanitary sewer manholes and District staff worked with the City to amend its permit with the DNR and MnDOT.

Manager Aichinger asked what Little Canada would do if the lake reaches 871 and then exceeds because of groundwater. Brandon stated that the City is not interested in pumping groundwater and therefore that situation would provide the City with needed data to make future decisions.

He provided information on the schematics that were provided to MnDOT with the District's permit application that would divert the overflow from West Vadnais away from Twin Lake to Stymie Pond. He stated that MnDOT is currently reviewing the permit request and anticipated that there would be continued discussions because of concerns MnDOT has on this activity.

President Ebensteiner asked who would be fiscally responsible for that activity. Brandon replied that the District is the applicant and would be financially responsible. He stated that the first month would have an estimated cost of \$43,000 and there would be a lower operational cost each month following. Manager Brandon stated that as a part of the resiliency study there were many options reviewed that would achieve the desired result. He noted that each option provides different benefits and has different impacts to the Phalen Chain, as well as how those impacts could possibly be mitigated. He reviewed the District flood risk management projects and the results that have been accomplished thus far in 2019 as well as the work that continues. He noted that upon completion of this work there would be a prioritized list of flood management projects and emergency response plans for implementation in 2020 and beyond. He stated that the Beltline resiliency study looked at the watershed above the Beltline interceptor to evaluate system level flood damage reduction options. He explained that the additional homes shown at possible risk of flooding is not only due to increased rainfall events but also because of the more accurate data that is available and the Atlas 14 information. He noted that the study information is available in draft form on the website and highlighted the different sections, noting that each phase includes two tabs: inundation and system modifications.

Manager Skinner stated that while she appreciates the different options that do not include purchasing property, she would always be interested in seeing the other option of purchasing specific properties. She noted that sometimes purchasing properties is more cost-effective and could provide a place for water storage. President Ebensteiner stated that sometimes it would just not be feasible to purchase the properties in question, using Hillcrest as an example.

Manager Swope asked if all the District flood control projects have been completed to protect homes. Manager Aichinger replied that the District projects are completed to protect homes, businesses, or infrastructure.

Brandon reviewed the different sections of the study, providing background information on the current path of water in the different study areas and possible modifications that could be made to the system.

Manager Swope stated there was a previous discussion about possibly increasing the capacity of Owasso Basin and asked for additional details. Brandon confirmed that a previous study did look at options for acquiring additional land but none of those options created enough live storage to prevent flooding on the remainder of the site, which is how the diversion route was chosen. He reviewed positive and negatives of the complementary options that were reviewed including the alternate high-flow Lake Owasso outlet and a seasonal operation of West Vadnais outlet.

Manager Aichinger stated that it would seem that drawing down West Vadnais in the winter would also lower Grass Lake and create capacity for spring melt and rains. Brandon confirmed that capacity would be a benefit of the drawdown. He provided additional information on the other West Vadnais outlet option to increase capacity.

He also reviewed the Beaver Lake outlet option that was reviewed. He highlighted the next steps which include preparation of documentation and then could include capital improvement projects and operation plans for structure modifications.

Manager Aichinger asked if the option to modify the weir structure in Keller Channel was reviewed. Brandon confirmed that was one option reviewed and is included in the study. Tina Carstens stated that both the Keller and Phalen channel modifications were included in the 2020 budget. Brandon provided additional details on the possible weir improvements. Tina asked and received confirmation that by completing the weir modifications at Keller and Phalen, that would remove all but one home on Gervais Lake from risk of flooding and would provide additional resiliency in the system.

10. PRESENTATION: DISTRICT WATER QUALITY MONITORING SUMMARY

Eric Korte provided a summary of the 2018 water quality program. He provided background information on the lake and pond water quality monitoring process and the trophic state index that is used. He provided the 2018 trophic state information for all the lakes within the District, noting that there was roughly a 10 percent increase in trophic states from 2017 to 2018. He also provided a 30-year analysis for the lakes, noting that most of the lakes in the District have a positive trend during that period of time. He noted that under a 10-year trend analysis most of the lakes show no trend during that period. He provided more specific information on the water quality of Twin Lake noting that the lake is responding to climatic variability rather than a sustained decrease in water quality, noting that the lake is still meeting the water quality goals. He provided information on the Tanners Lake alum plant including details on the MS4 permit requirements and the plant results from 2018.

Manager Skinner stated that she would also like to see options for reducing the amount of alum or lessening the months of operation. Eric provided details on the recent upgrades to the alum plant. He also provided additional information on high levels of PFAS found in Battle Creek. Tina Carstens stated that Barr Engineering, MPCA and MDH are working to identify the source. She noted that there is a possibility that the District would receive funds from the 3M settlement for this purpose.

Eric provided information on the Frost Kennard spent-lime test chamber, iron enhanced sand filter, and Kohlman Basin test chambers. He provided details on future and current monitoring, highlighting Shoreview Commons Pond, in which the University of Minnesota will treat the pond with iron filing and the Willow Pond continuous monitoring and adaptive control filtration (CMAC) BMP, noting that it is not yet up and running but will be soon.

11. ADMINISTRATOR'S REPORT

A. Meetings Attended

Tina Carstens provided background information on some of the recent meetings she attended.

B. Upcoming Meetings and Dates

Tina noted that a date was included for the Board brainstorming session as Monday, September 16th. She noted that the December Board meeting falls on the Wednesday of the MAWD Annual meeting and suggested moving that meeting to the following week on December 11th.

Motion: Cliff Aichinger moved, Dianne Ward seconded, to change the date of the December Board meeting from Wednesday, December 4, 2019 to Wednesday, December 11, 2019. Motion carried unanimously.

Paige Ahlborg noted that the January meeting falls on January 1, 2020.

Motion: Lawrence Swope moved, Dr. Pam Skinner seconded, to change the date of the January 1, 2020 Board meeting to Wednesday, January 8, 2020. Motion carried unanimously.

C. 2020 Budget Discussions

Tina noted that the proposed budget information was included in the packet for discussion purposes, noting that a preliminary budget will be adopted and certified at the September meeting. She asked if there were any questions. Manager Aichinger asked where an electronic carp barrier would most likely be installed. Bill Bartodziej replied that the West Vadnais outlet would be one location, to prevent carp from moving into Owasso Basin. He noted that another high priority location would be between Owasso and Wabasso. He noted that this would be equipment rental to try out the method.

President Ebensteiner suggested perhaps hosting a carp fishing tournament as another method for removal. Bill confirmed that District staff has talked about that option in the past. He stated that ideally it would be a citizen run activity and the District could provide some assistance. Manager Skinner suggested perhaps that would be a good activity for the CAC.

Manager Aichinger referenced the West Vadnais Lake seasonal drawdown system and noted that he was surprised at the cost. Brandon Barnes explained that project would involve using another pipe to get water across the highway to another connection point. He stated that would provide additional capacity.

Manager Swope referenced the Cottage Place wetland restoration and asked for an update. Paige Ahlborg stated that is still in the first study phase to determine if that will be cost-efficient. Tina noted that she put a placeholder in the budget, noting that progress would depend upon the results of the feasibility study. She noted that the line item could be retitled as wetland restoration opportunity.

Manager Aichinger stated that he does not have any issues with the proposed budget total.

Manager Swope noted that many budget line items are decreasing while the flood risk reduction item is increasing. He recognized that will allow the District to move forward on some of the projects discussed by Brandon Barnes tonight during his presentation.

Paige Ahlborg stated that there are three Target stores within the District and the company is very excited about doing stormwater projects and provided additional details.

Tina stated that she will make the change in the line item title for wetland restoration and will send the proposed budget to the cities and counties for comments.

12. PROJECT AND PROGRAM STATUS REPORTS

A. Ongoing Project and Program Updates

- i. Twin Lake Emergency Response Management 2019
- ii. Owasso County Park
- iii. Beltline Resiliency Study
- iv. FEMA Flood Mapping
- v. West Vadnais Lakes Outlet Permitting
Manager Ward referenced the West Vadnais Lakes Outlet Permitting item and asked if future dates could be included as well.
- vi. 500 Year Atlas 14 Modeling
- vii. Wetland Restoration
- viii. Auto Lake Monitoring Systems

- ix. Maplewood Mall Monitoring
Manager Aichinger stated that he would like to be a part of the Maplewood Mall tree replacement process. He asked if the rain gardens would receive replacement during that process. Paige Ahlborg noted that if the rain garden is failing it would be replaced. She noted that there was more robust work on the rain gardens this year.
- x. Spent-Lime Pond Research Project
- xi. Iron Aggregate Pond Application Research
- xii. Wakefield Park/Frost Avenue Project
- xiii. Targeted Retrofit Projects
- xiv. Willow Pond CMAC
- xv. Cottage Place Wetland Restoration
- xvi. Aldrich Arena Site Design
- xvii. CIP Maintenance and Repair 2019 Project
- xviii. 2019 Tanners Lake Alum Facility
- xix. Natural Resources Program
- xx. Education Program
President Ebensteiner stated that it is wonderful to see staff reaching out to those living in high-rises in terms of education and outreach.

13. INFORMATIONAL ITEMS

None.

14. REPORTS OF MANAGERS

None.

15. ADJOURN

Motion: Dr. Pam Skinner moved, Cliff Aichinger seconded, to adjourn the meeting at 9:22 p.m. Motion carried unanimously.

Respectfully submitted,

Dr. Pam Skinner, Secretary

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Bill List

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RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2019
8/31/2019

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	-	1,350.00	4,150.00	\$2,350.00	63.85%
	Manager expenses	4360	3,500.00	-	558.54	871.40	2,628.60	24.90%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	319.85	2,556.11	943.89	73.03%
Employees	Staff salary/taxes/benefits	4010	1,385,000.00	-	107,386.80	873,835.28	511,164.72	63.09%
	Employee expenses	4020	10,000.00	-	1,287.59	5,366.49	4,633.51	53.66%
	District training & education	4350	25,000.00	-	618.89	14,237.53	10,762.47	56.95%
Administration/ Office	GIS system maint. & equip.	4170	15,000.00	-	-	2,028.52	12,971.48	13.52%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	2,210.00	2,790.00	44.20%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	361.48	4,996.10	3,003.90	62.45%
	Office supplies	4320	5,000.00	-	384.14	2,787.78	2,212.22	55.76%
	IT/Internet/Web Site/Software Lic.	4325	45,000.00	-	8,881.91	28,790.56	16,209.44	63.98%
	Postage	4330	10,000.00	-	312.45	597.39	9,402.61	5.97%
	Printing/copying	4335	8,000.00	-	294.00	3,836.92	4,163.08	47.96%
	Dues & publications	4338	11,000.00	-	1,954.00	9,902.00	1,098.00	90.02%
	Janitorial/Trash Service	4341	17,000.00	-	-	5,652.18	11,347.82	33.25%
	Utilities/Bldg.Contracts	4342	20,000.00	-	840.53	13,257.99	6,742.01	66.29%
	Bldg/Site Maintenance	4343	300,000.00	-	1,230.77	71,361.55	228,638.45	23.79%
	Miscellaneous	4390	5,000.00	-	-	500.00	4,500.00	10.00%
	Insurance	4480	35,000.00	-	-	35,812.00	(812.00)	102.32%
	Office equipment	4703	40,000.00	-	-	29,222.15	10,777.85	73.06%
	Vehicle lease, maintenance	4810-40	43,000.00	-	802.42	4,201.11	38,798.89	9.77%
Consultants/ Outside Services	Auditor/Accounting	4110	55,000.00	-	2,307.62	41,011.66	13,988.34	74.57%
	Engineering-administration	4121	93,000.00	-	7,312.00	48,437.64	44,562.36	52.08%
	Engineering-permit I&E	4122	10,000.00	-	2,918.44	3,024.44	6,975.56	30.24%
	Engineering-eng. review	4123	55,000.00	-	2,402.00	34,622.16	20,377.84	62.95%
	Engineering-permit review	4124	55,000.00	-	2,957.00	26,222.50	28,777.50	47.68%
	Project Feasibility Studies	4129	790,000.00	-	55,847.00	244,957.80	545,042.20	31.01%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	2,481.00	21,409.50	18,590.50	53.52%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
Programs	Educational programming	4370	60,000.00	-	-	14,294.21	45,705.79	23.82%
	Communications & Marketing	4371	25,000.00	-	1,112.80	5,937.78	19,062.22	23.75%
	Events	4372	50,000.00	-	1,077.28	34,634.04	15,365.96	69.27%
	Water QM-Engineering	4520-30	300,000.00	-	32,174.45	123,623.39	176,376.61	41.21%
	Project operations	4650	160,000.00	-	198.50	24,180.93	135,819.07	15.11%
	SLMP/TMDL Studies	4661	68,000.00	-	400.00	3,634.00	64,366.00	5.34%
	Natural Resources/Keller Creek	4670-72	115,000.00	-	19,221.98	92,129.05	22,870.95	80.11%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	703.92	39,010.29	27,989.71	58.22%
	Research Projects	4695	115,000.00	-	2,166.57	42,947.09	72,052.91	37.35%
	Health and Safety Program	4697	3,000.00	-	49.07	979.87	2,020.13	32.66%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
GENERAL FUND TOTAL			\$4,124,500.00	\$0.00	\$259,913.00	\$1,917,229.41	\$2,207,270.59	46.48%
CIP's	CIP Project Repair & Maintenance	516	1,120,000.00	-	138,963.72	681,162.25	438,837.75	60.82%
	Targeted Retrofit Projects	518	978,760.00	-	14,523.58	210,759.15	768,000.85	21.53%
	District Office Building Solar Energy Retrofit	519	-	-	-	-	-	---
	Flood Damage Reduction Fund	520	2,500,000.00	-	4,139.00	237,309.87	2,262,690.13	9.49%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	399,113.00	-	-	396,907.30	2,205.70	99.45%
	Stewardship Grant Program Fund	528-529	1,250,000.00	-	75,257.15	339,122.75	910,877.25	27.13%
	Impervious Surface Volume Reduction Opportunity	531	1,500,000.00	-	-	-	1,500,000.00	0.00%
	Beltline & Battle Creek Tunnel Repair	549	-	-	-	-	-	---
	Frost/Kennard Enhanced WQ BMP	550	-	-	-	-	-	---
	Markham Pond Dredging & Aeration	551	65,000.00	-	1,556.50	5,092.48	59,907.52	7.83%
	Wakefield Park Project	553	1,100,000.00	-	3,586.90	55,336.20	1,044,663.80	5.03%
	Willow Pond CMAC	554	300,000.00	-	504.00	11,092.16	288,907.84	3.70%
	District Office Bond Payment	585	194,885.00	-	-	193,453.76	1,431.24	99.27%
CIP BUDGET TOTAL			\$9,407,758.00	-	\$238,530.85	\$2,130,235.92	\$7,277,522.08	22.64%
TOTAL BUDGET			\$13,532,258.00	\$0.00	\$498,443.85	\$4,047,465.33	\$9,484,792.67	29.91%

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/18	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 08/31/19
101 - General Fund	\$4,464,553.28	-	1,804,783.18	259,913.00	1,917,229.41	4,352,107.05
516 - CIP Project Repair & Maintenance	951,963.00	-	589,276.30	138,963.72	681,162.25	860,077.05
518 - Targeted Retrofit Projects	994,725.00	-	105,227.91	14,523.58	210,759.15	889,193.76
519 - District Office Building Solar Energy Retrofit	32,805.00	-	-	-	-	32,805.00
520 - Flood Damage Reduction Fund	1,823,918.00	-	474,898.42	4,139.00	237,309.87	2,061,506.55
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	381,949.00	-	311,016.62	-	396,907.30	296,058.32
528/529 - Stewardship Grant Program Fund	389,152.00	-	657,674.45	75,257.15	339,122.75	707,703.70
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1,484,215.00
549 - Beltline & Battle Creek Tunnel Repair	863,674.00	-	-	-	-	863,674.00
550 - Frost/Kennard Enhanced WQ BMP	70,017.00	-	-	-	-	70,017.00
551 - Markham Pond Dredging & Aeration	110,379.00	-	-	1,556.50	5,092.48	105,286.52
553 - Wakefield Park Project	1,049,286.00	-	-	3,586.90	55,336.20	993,949.80
554 - Willow Pond CMAC	(44,588.00)	-	-	504.00	11,092.16	(55,680.16)
580 - Contingency Fund	598,985.00	-	-	-	-	598,985.00
585 - Certificates of Participation	131,513.00	-	102,536.71	-	193,453.76	40,595.95
Total District Fund Balance	\$13,302,546.28	-	\$ 4,045,413.59	\$ 498,443.85	\$4,047,465.33	\$13,300,494.54

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Aug 1, 2019 to Aug 31, 2019

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	08/01/19	met008	Aug 2019	MetLife	Employee Benefits	\$1,615.20
EFT	08/14/19	hea002	Sep 2019	HealthPartners	Employee Benefits	10,825.13
70950	08/20/19	adv003	00037259	Advantage Signs & Graphics, Inc.	Communications/Events	1,037.80
70951	08/20/19	app001	53523	Applied Ecology Services, Inc.	Stewardship Grant Fund	870.75
70952	08/20/19	aws001	S1335957-080119	AWS Service Center	Utilities/Bldg. Contracts	206.60
70953	08/20/19	cad001	16321327	Allstream	Water QM Staff	65.47
70954	08/20/19	car007	RWMWD_8_5_19	Carp Solutions, LLC	Natural Resources Project	5,380.00
70955	08/20/19	cit011	226480	City of Roseville	IT/Website/Software/Phone	8,728.00
70956	08/20/19	hej001	311112	Hejny Rental	Natural Resources Project	105.37
70957	08/20/19	lak006	4713	10,000 Lakes Aquaculture, Inc.	Natural Resources Project	650.00
70958	08/20/19	lak007	1101	Lakes Aquatic Weed Removal	Natural Resources Project	4,807.50
70959	08/20/19	lan003	08/12/19	Lancer Catering	Events	750.00
70960	08/20/19	nep001	8/14/19	NCPERS Group Life Ins.	Employee Benefits	16.00
70961	08/20/19	nel001	1-710930	Nelson Marine	Vehicle Expense	119.51
70962	08/20/19	pac001	1912009324	Pace Analytical Services, Inc.	Water QM Staff	3,910.00
70963	08/20/19	pre003	317008569	Premium Waters, Inc.	Utilities/Bldg. Contracts	22.00
70964	08/20/19	qwe001	08/10/19	CenturyLink	Water QM Staff	230.53
70965	08/20/19	san003	08/03/19	Sandstrom Land Management	Construction Imp.-Maint. & Rep.	5,730.00
70966	08/20/19	shi001	B10374853	SHI International Corp.	IT/Website/Software	365.00
70967	08/20/19	twi002	Z107335	Twin City Garage Door Co.	Bldg./Site Maintenance	800.00
70968	08/20/19	usb005	391440609	US Bank Equipment Finance	Printing Expense	294.00
70969	09/04/19	abu001	16-01	Samir Abumayyaleh	Dev Escrow-General	10,570.00
70970	09/04/19	ada002	2813694	Adam's Pest Control, Inc.	Bldg./Site Maintenance	79.00
70971	09/04/19	ahl001	Jun-Aug, 2019	Paige Ahlborg	Employee Reimbursement	163.21
70972	09/04/19	att002	287256653401X08252019	AT & T Mobility - ROC	Water QM Staff	75.46
70973	09/04/19	bar001	7/20-8/23/19	Barr Engineering	July/August Engineering	145,123.31
70974	09/04/19	bar002	05/23-9/1/19	Bill Bartodziej	Employee Reimbursement	861.41
70975	09/04/19	bar004	Aug 2019	Deborah Barnes	Employee Reimbursement	109.58
70976	09/04/19	big001	08-22 CS	Richard Biga	Stewardship Grant Fund	12,918.93
70977	09/04/19	blo001	Jul-Aug 2019	Simba Blood	Employee Reimbursement	478.09
70978	09/04/19	car007	RWMWD_8_22_19	Carp Solutions, LLC	Natural Resources Project	6,580.00
70979	09/04/19	cit022	18-15 CS	City of Maplewood	Stewardship Grant Fund	580.00
70980	09/04/19	com004	8/16/19	Comcast	Utilities/Bldg. Contracts	61.93
70981	09/04/19	don001	Aug 2019	Matthew Doneux	Employee Reimbursement	464.71
70982	09/04/19	ebe001	8/9/19	Marjorie J. Ebensteiner	Manager Expense	283.04
70983	09/04/19	fin001	18-23 CS	Paul Finsness	Stewardship Grant Fund	9,783.60
70984	09/04/19	fit001	Progress Payment #4	Fitzgerald Excavating & Trucking, Inc.	Construction Imp.-Maint. & Rep.	101,328.05
70985	09/04/19	fit002	Aug 2019	Mary Fitzgerald	Employee Reimbursement	171.86
70986	09/04/19	gal001	8/21/19	Galowitz Olson, PLLC	August Legal Fees	2,481.00
70987	09/04/19	gru001	28203	Gruber's Power Equipment	Natural Resources Project	579.00
70988	09/04/19	haw001	4569367/4571930	Hawkins, Inc.	Water QM Staff	8,656.40
70989	09/04/19	hil003	Aug 2019	Kyle Hildebrandt	Employee Reimbursement	20.88
70990	09/04/19	hom001	08/28/19	Home Depot Credit Services	Water QM/Natural Resources	168.95
70991	09/04/19	inn002	IN2635871	Innovative Office Solutions LLC	Office Supplies	206.63
70992	09/04/19	int001	W19070506	Office of MN, IT Services	Telephone Expense	57.48
70993	09/04/19	kor001	08/19/19	Eric Korte	Employee Reimbursement	210.48
70994	09/04/19	kos001	18-26 CS	Helen & Kent Kosobayashi	Stewardship Grant Fund	11,557.18
70995	09/04/19	kub001	8/1/19	Kyle W. Kubitz	Employee Reimbursement	40.60
70996	09/04/19	lar002	8/1/19	Andrew S. Larson	Employee Reimbursement	41.18
70997	09/04/19	lea002	298426	League of Minnesota Cities	Dues & Publications	1,954.00
70998	09/04/19	mel001	Aug 2019	Michelle L. Melser	Employee Reimbursement	362.47
70999	09/04/19	mid003	528345	Roseville Midway Ford	Vehicle Expense	53.42
71000	09/04/19	min008	21016	Minnesota Native Landscapes, Inc.	Construction Imp.-Maint. & Rep.	13,975.00
71001	09/04/19	mur003	19-18 CS	Emily Murphy	Stewardship Grant Fund	283.84
71002	09/04/19	new002	Aug 2019	Kyra L. Newburg	Employee Reimbursement	34.80
71003	09/04/19	odl001	19-21 CS	Kristy Odland	Stewardship Grant Fund	2,201.25
71004	09/04/19	out001	19-092	Outdoor Lab Landscape Design, Inc.	Construction Imp.-Maint. & Rep.	4,335.72
71005	09/04/19	pac001	1912009720	Pace Analytical Services, Inc.	Water QM Staff	4,962.00
71006	09/04/19	pit001	3103378902	Pitney Bowes Global Financial Serv LLC	Postage Expense	142.47
71007	09/04/19	pit004	103765797	Pitney Bowes	Postage Expense	169.98
71008	09/04/19	red002	150448069	Redpath & Company, Ltd	July Accounting Services	2,307.62

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Aug 1, 2019 to Aug 31, 2019

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
71009	09/04/19	she003	19-04 CS	Shepherd of the Hills Lutheran Church	Stewardship Grant Fund	5,129.68
71010	09/04/19	ski001	08/07/19	Pam Skinner	Manager Expense	275.50
71011	09/04/19	sod001	Aug 2019	Nicole Soderholm	Employee Reimbursement	53.00
71012	09/04/19	tec001	323623	Tech Sales Co.	Water QM Staff	2,214.00
71013	09/04/19	tho004	17-21	Thomas English Retail Real Estate	Dev Escrow-General	5,100.00
71014	09/04/19	tim002	M24984	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Exp.	285.00
71015	09/04/19	ups001	0000F4471X359	United Parcel Service	Water QM Staff	37.74
71016	09/04/19	usb002	Aug 2019	U.S. Bank	July/August Credit Card	2,091.33
71017	09/04/19	van001	68104	Vanguard Cleaning Systems of Minnesota	Utilities/Bldg. Contracts	550.00
71018	09/04/19	voy001	869293423934	US Bank Voyager Fleet Sys.	Vehicle-Fuel	618.76
71019	09/04/19	war002	19-17 CS	Cecilia Warner	Stewardship Grant Fund	4,374.36
71020	09/04/19	was002	4575	Washington Conservation District	Stewardship Grant Fund	5,255.50
71021	09/04/19	wil007	July/August, 2019	Patrick Williamson	Employee Reimbursement	113.23
71022	09/04/19	ysi001	797709	YSI, Inc.	Water QM Staff	895.20
Total						<u>\$417,956.69</u>
EFT	07/12/19	myp001	07/12/19	July 12th Payroll Fee	4110-101-000	71.80
EFT	07/26/19	myp001	07/26/19	July 26th Payroll Fee	4110-101-000	73.65
Dir.Dep.	08/09/19	---	Payroll Expense-Net	August 9th Payroll	4010-101-000	27,581.11
EFT	08/09/19	int002	Internal Rev.Serv.	August 9th Federal Withholding	2001-101-000	9,376.28
EFT	08/09/19	mnd001	MN Revenue	August 9th State Withholding	2003-101-000	1,816.23
EFT	08/09/19	per001	PERA	August 9th PERA	2011-101-000	4,818.04
EFT	08/09/19	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,425.00
EFT	08/09/19	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	375.00
Dir.Dep.	08/23/19	---	Payroll Expense-Net	August 23rd Payroll	4010-101-000	28,806.38
EFT	08/23/19	int002	Internal Rev.Serv.	August 23rd Federal Withholding	2001-101-000	9,731.04
EFT	08/23/19	mnd001	MN Revenue	August 23rd State Withholding	2003-101-000	1,890.06
EFT	08/23/19	per001	PERA	August 23rd PERA	2011-101-000	4,806.71
EFT	08/23/19	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,425.00
EFT	08/23/19	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	375.00
Payroll/Benefits						<u>\$94,571.30</u>
Total						<u>Accounts Payable/Payroll/Benefits:</u>
						<u>\$512,527.99</u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2019 - Aug 31, 2019

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
08/01/19	EFT	met003	MetLife-Group Benefits			1,615.20	
				4040-101-000	Employee Benefits-General		1,398.12
				2015-101-000	Employee Health-General		217.08
08/14/19	EFT	hea002	HealthPartners			10,825.13	
				4040-101-000	Employee Benefits-General		9,186.12
				2015-101-000	Employee Health-General		1,639.01
08/20/19	70950	adv003	Advantage Signs & Graphics, Inc.			1,037.80	
				4371-101-000	Communications & Marketing		977.80
				4372-101-000	Events		60.00
08/20/19	70951	app001	Applied Ecology Services, Inc.	4682-529-000	Stewardship Grant Fund	870.75	
08/20/19	70952	aws001	AWS Service Center	4342-101-000	Utilities/Building Contracts	206.60	
08/20/19	70953	cad001	Allstream	4530-101-000	Water QM Staff-General	65.47	
08/20/19	70954	car007	Carp Solutions, LLC	4670-101-000	Natural Resources Project-General	5,380.00	
08/20/19	70955	cit011	City of Roseville			8,728.00	
				4325-101-000	IT/Website/Software		8,424.00
				4310-101-000	Telephone-General		304.00
08/20/19	70956	hej001	Hejny Rental	4670-101-000	Natural Resources Project-General	105.37	
08/20/19	70957	lak006	10,000 Lakes Aquaculture, Inc.	4670-101-000	Natural Resources Project-General	650.00	
08/20/19	70958	lak007	Lakes Aquatic Weed Removal	4670-101-000	Natural Resources Project-General	4,807.50	
08/20/19	70959	lan003	Lancer Catering	4372-101-000	Events	750.00	
08/20/19	70960	ncp001	NCPERS Group Life Ins.	2015-101-000	Employee Health-General	16.00	
08/20/19	70961	nel001	Nelson Marine	4840-101-000	Vehicle Misc.-General	119.51	
08/20/19	70962	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	3,910.00	
08/20/19	70963	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	22.00	
08/20/19	70964	qwe001	CenturyLink	4530-101-000	Water QM Staff-General	230.53	
08/20/19	70965	san003	Sandstrom Land Management	4630-516-000	Construction Imp.-Maint. & Repair	5,730.00	
08/20/19	70966	shi001	SHI International Corp.	4325-101-000	IT/Website/Software	365.00	
08/20/19	70967	twi002	Twin City Garage Door CO.	4343-101-000	Bldg./Site Maintenance	800.00	
08/20/19	70968	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
09/04/19	70969	abu001	Samir Aymayyalch	2024-101-000	Dev Escrow-General Fund	10,570.00	
09/04/19	70970	ada002	Adam's Pest Control	4343-101-000	Bldg./Site Maintenance	79.00	
09/04/19	70971	ahl001	Paige Ahlborg			163.21	
				4020-101-000	Employee Expenses-General		52.78
				4040-101-000	Employee Benefits-General		79.00
				4350-101-000	Training & Education-General		31.43
09/04/19	70972	att002	AT & T Mobility - ROC	4530-101-000	Water QM Staff-General	75.46	
09/04/19	70973	bar001	Barr Engineering			145,123.31	
				4121-101-000	Engineering Admin-General Fund		7,312.00
				4129-101-000	Project Feasibility-General		1,020.00
				4123-101-000	Engineering-Review		2,402.00
				4129-101-000	Project Feasibility-General		136.00
				4129-101-000	Project Feasibility-General		19,010.50
				4129-101-000	Project Feasibility-General		3,496.00
				4129-101-000	Project Feasibility-General		5,822.00
				4129-101-000	Project Feasibility-General		25,691.50

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
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Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4129-101-000	Project Feasability-General		85.00
				4129-101-000	Project Feasability-General		586.00
				4520-101-000	Water QM-Engineering		2,464.50
				4520-101-000	Water QM-Engineering		1,000.00
				4520-101-000	Water QM-Engineering		1,388.04
				4520-101-000	Water QM-Engineering		1,000.00
				4520-101-000	Water QM-Engineering		5,058.77
				4122-101-000	Engineering Permit Review-Genearl Fund		2,918.44
				4124-101-000	Engineering-Flood Damage		2,957.00
				4661-101-000	SLMP/TMDL Studies		400.00
				4128-520-000	Engineering-Flood Damage		4,139.00
				4695-101-000	Research Projects-General		1,934.50
				4695-101-000	Research Projects-General		232.07
				4650-101-000	Project Operations-General		198.50
				4128-553-000	Engineering-Wakefield		3,586.90
				4128-518-000	Engineering-School/Commer Retrofit		4,093.00
				4128-518-000	Engineering-School/Commer Retrofit		2,374.50
				4128-518-000	Engineering-School/Commer Retrofit		322.00
				4682-529-000	Stewardship Grant Fund		1,595.00
				4128-518-000	Engineering-School/Commer Retrofit		7,734.08
				4128-551-000	Engineering-Markham		1,556.50
				4682-529-000	Stewardship Grant Fund		20,707.06
				4128-554-000	Engineering-Willow Pond		504.00
				4128-516-000	Engineering-Maint. & Repair		11,323.95
				4128-516-000	Engineering-Maint. & Repair		2,074.50
09/04/19	70974	bar002	Bill Bartodziej			861.41	
				4020-101-000	Employee Expenses-General		568.98
				4040-101-000	Employee Benefits-General		159.00
				4670-101-000	Natural Resources Project-General		133.43
09/04/19	70975	bar004	Deborah Barnes			109.58	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		25.52
				4350-101-000	Training & Education-General		44.06
09/04/19	70976	big001	Richard Biga			12,918.93	
09/04/19	70977	blo001	Simba Blood			478.09	
				4040-101-000	Employee Benefits-General		280.00
				4020-101-000	Employee Expenses-General		46.75
				4350-101-000	Training & Education-General		21.21
				4670-101-000	Natural Resources Project-General		130.13
09/04/19	70978	car007	Carp Solutions, LLC			6,580.00	
09/04/19	70979	cit022	City of Maplewood			580.00	
09/04/19	70980	com004	Comcast			61.93	
09/04/19	70981	don001	Matthew Doneux			464.71	
				4040-101-000	Employee Benefits-General		60.52
				4020-101-000	Employee Expenses-General		109.23
				4670-101-000	Natural Resources Project-General		262.65
				4350-101-000	Training & Education-General		32.31

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2019 - Aug 31, 2019

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
09/04/19	70982	ebe001	Marjorie J. Ebensteiner	4360-101-000	Manager Expenses-General	283.04	
09/04/19	70983	fin001	Paul Finsness	4682-529-000	Stewardship Grant Fund	9,783.60	
09/04/19	70984	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	101,328.05	
09/04/19	70985	fit002	Mary Fitzgerald	4020-101-000	Employee Expenses-General	171.86	
09/04/19	70986	gal001	Galowitz Olson, PLLC	4131-101-000	Atty General-General Fund	2,481.00	
09/04/19	70987	gru001	Gruber's Power Equipment	4670-101-000	Natural Resources Project-General	579.00	
09/04/19	70988	haw001	Hawkin's, Inc.	4530-101-000	Water QM Staff-General	8,656.40	
09/04/19	70989	hil003	Kyle Hildebrandt	4020-101-000	Employee Expenses-General	20.88	
09/04/19	70990	hom001	Home Depot Credit Services			168.95	
				4530-101-000	Water QM Staff-General		92.63
				4670-101-000	Natural Resources Project-General		76.32
09/04/19	70991	inn002	Innovative Office Solutions, LLC	4320-101-000	Office Supplies-General	206.63	
09/04/19	70992	int001	Office of MN, IT Services	4310-101-000	Telephone-General	57.48	
09/04/19	70993	kor001	Eric Korte			210.48	
				4040-101-000	Employee Benefits-General		120.00
				4020-101-000	Employee Expenses-General		90.48
09/04/19	70994	kos001	Helen & Kent Kosobayashi	4682-529-000	Stewardship Grant Fund	11,557.18	
09/04/19	70995	kib001	Kyle W. Kubitza	4020-101-000	Employee Expenses-General	40.60	
09/04/19	70996	lar002	Andrew S. Larson	4020-101-000	Employee Expenses-General	41.18	
09/04/19	70997	lea002	League of MN Cities Trust WC	4338-101-000	Dues & Publications	1,954.00	
09/04/19	70998	mel001	Michelle L. Melser			362.47	
				4020-101-000	Employee Expenses-General		37.47
				4343-101-000	Bldg./Site Maintenance		325.00
09/04/19	70999	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maint.-General	53.42	
09/04/19	71000	min008	Minnesota Native Landscapes, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	13,975.00	
09/04/19	71001	mur003	Emily Murphy	4682-529-000	Stewardship Grant Fund	283.84	
09/04/19	71002	new002	Kyra I. Newburg	4020-101-000	Employee Expenses-General	34.80	
09/04/19	71003	odl001	Kristy Odland	4682-529-000	Stewardship Grant Fund	2,201.25	
09/04/19	71004	out001	Outdoor Lab Landscape Design, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	4,335.72	
09/04/19	71005	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	4,962.00	
09/04/19	71006	pit001	Pitney Bowes Global Financial Seerv., LLC	4330-101-000	Postage-General	142.47	
09/04/19	71007	pit004	Pitney Bowes	4330-101-000	Postage-General	169.98	
09/04/19	71008	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	2,307.62	
09/04/19	71009	she003	Shepherd of the Hills Lutheran Church	4682-529-000	Stewardship Grant Fund	5,129.68	
09/04/19	71010	ski001	Pam Skinner	4360-101-000	Manager Expenses-General	275.50	
09/04/19	71011	sod001	Nichole Soderholm			53.00	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		13.00
09/04/19	71012	tec001	Tech Sales Co.	4530-101-000	Water QM Staff-General	2,214.00	
09/04/19	71013	tho004	Thomas English Retail Real Estate	2024-101-000	Dev Escrow-General Fund	5,100.00	
09/04/19	71014	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	285.00	
09/04/19	71015	ups001	United Parcel Service	4530-101-000	Water QM Staff-General	37.74	
09/04/19	71016	usb002	U.S. Bancorp			2,091.33	
				4325-101-000	IT/Website/Software		92.91
				4530-101-000	Water QM Staff-General		10.00
				4320-101-000	Office Supplies-General		48.14
				4343-101-000	Bldg./Site Maintenance		26.77
				4530-101-000	Water QM Staff-General		46.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2019 - Aug 31, 2019

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4630-516-000	Construction Imp.-Maint. & Repair		196.50
				4530-101-000	Water QM Staff-General		31.29
				4820-101-000	Vehicle Maint.-General		10.73
				4320-101-000	Office Supplies-General		68.69
				4365-101-000	Committee/Board Meeting Expense		34.85
				4320-101-000	Office Supplies-General		38.70
				4320-101-000	Office Supplies-General		21.98
				4350-101-000	Training & Education-General		239.88
				4372-101-000	Events		121.67
				4530-101-000	Water QM Staff-General		36.42
				4372-101-000	Events		145.61
				4697-101-000	Health & Safety Program		49.07
				4350-101-000	Training & Education-General		250.00
				4371-101-000	Communications & Marketing		135.00
				4670-101-000	Natural Resources Project-General		487.12
09/04/19	71017	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	550.00	
09/04/19	71018	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	618.76	
09/04/19	71019	war002	Cecilia Warner	4682-529-000	Stewardship Grant Fund	4,374.36	
09/04/19	71020	was002	Washington Conservation District	4682-529-000	Stewardship Grant Fund	5,255.50	
09/04/19	71021	wil007	Patrick Williamson			113.23	
				4020-101-000	Employee Expenses-General		82.77
				4670-101-000	Natural Resources Project-General		30.46
09/04/19	71022	ysi001	YSI, Inc.	4530-101-000	Water QM Staff-General	895.20	
Accounts Payable Total:						\$417,956.69	
EFT	07/12/19	myp001	Payroll Fees	4110-101-000	July 12th Payroll Fee	71.80	
EFT	07/26/19	myp001	Payroll Fees	4110-101-000	July 26th Payroll Fee	73.65	
Dir.Dep.	08/09/19	---	Payroll Expense-Net	4010-101-000	August 9th Payroll	27,581.11	
EFT	08/09/19	int002	Internal Rev.Serv.	2001-101-000	August 9th Federal Withholding	9,376.28	
EFT	08/09/19	mnd001	MN Revenue	2003-101-000	August 9th State Withholding	1,816.23	
EFT	08/09/19	per001	PERA	2011-101-000	August 9th PERA	4,818.04	
EFT	08/09/19	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,425.00	
EFT	08/09/19	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	375.00	
Dir.Dep.	08/23/19	---	Payroll Expense-Net	4010-101-000	August 23rd Payroll	28,806.38	
EFT	08/23/19	int002	Internal Rev.Serv.	2001-101-000	August 23rd Federal Withholding	9,731.04	
EFT	08/23/19	mnd001	MN Revenue	2003-101-000	August 23rd State Withholding	1,890.06	
EFT	08/23/19	per001	PERA	2011-101-000	August 23rd PERA	4,806.71	
EFT	08/23/19	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,425.00	
EFT	08/23/19	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	375.00	
Payroll/Benefits						\$94,571.30	
TOTAL:						\$512,527.99	



**Summary of Professional Engineering Services During the Period
July 20, 2019 through August 23, 2019**

	Total Engineering Budget (2019)	Total Fees to Date (2019)	Budget Balance (2019)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$53,861.14	\$22,138.86	\$7,312.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$759.00	\$1,241.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$15,759.10	\$4,240.90	\$1,020.00	4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$43,208.16	\$11,791.84	\$2,402.00	4123-101	DW-13
Project Feasibility Studies						
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$50,000.00	\$6,375.20	\$43,624.80	\$136.00	4129-101	DW-6
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$90,720.12	\$126,279.88	\$19,010.50	4129-101	BELT-3
Interim emergency response plan funds for top priority District flooding areas (such as Owasso Basin, Willow Creek, PCU Pond, etc)	\$50,000.00	\$648.00	\$49,352.00		4129-101	DW-19
FEMA Flood Mapping Update	\$90,000.00	\$50,727.50	\$39,272.50	\$3,496.00	4129-101	DW-9
Snail, Grass, and West Vadnais outlet permitting with the MndNR	\$100,000.00	\$38,191.26	\$61,808.74	\$5,822.00	4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$27,772.00	\$42,228.00	\$25,691.50	4129-101	DW-9
Climate Adaption Workshops with Member Cities	\$100,000.00	\$255.00	\$99,745.00	\$85.00	4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-6
Wetland Restoration site search. BWSR criteria needed to help guide this idea.	\$25,000.00	\$15,651.00	\$9,349.00	\$586.00	4129-101	DW-1, DW-8
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Priority Pond Assessment (WQ Monitor/Dredge/Treat/Leave As-Is)	\$20,000.00	\$275.50	\$19,724.50		4129-101	DW-5
Contingency*	\$20,000.00	\$3,233.00	\$16,767.00		4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$341.50	\$4,658.50		4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$2,804.50	\$7,195.50	\$2,464.50	4520-101	DW-2
Auto lake monitoring system for Grass Lake	\$20,000.00	\$1,000.00	\$19,000.00	\$1,000.00	4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$5,546.54	\$14,453.46	\$1,388.04	4520-101	DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$4,799.50	\$15,200.50		4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$1,000.00	\$19,000.00	\$1,000.00	4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$4,818.50	\$15,181.50		4520-101	DW-18
Special Project BMP Monitoring (Maplewood Mall, Frost Kennard Spent Lime Filter, Willow Pond CMAC)	\$25,000.00	\$20,227.07	\$4,772.93	\$5,058.77	4520-101	DW-12
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$3,024.44	\$6,975.56	\$2,918.44	4122-101	DW-7
Permit Application Review	\$55,000.00	\$31,123.50	\$23,876.50	\$2,957.00	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2019 Grant Applications	\$30,000.00	\$144.00	\$29,856.00		4661-101	--
Tanners Flood Response Tool Model Update	\$3,000.00	\$1,545.00	\$1,455.00		4661-101	TaL-1
Internal Load Management Discussions	\$10,000.00	\$2,226.00	\$7,774.00	\$400.00	4661-101	KL-2, GC-2, WL-3, BL-3, BCL-2, LE-4, Bel-3, LO-5
Twin Lake Public Meeting	\$20,000.00	\$14,522.12	\$5,477.88		4129-101	DW-19
Twin Lake Emergency Response Management 2019		\$56,160.18	-\$56,160.18	\$4,139.00	4128-520	
Contingency for Lake Studies	\$5,000.00	\$0.00	\$5,000.00		4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$11,798.00	\$202.00	\$1,934.50	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$10,327.10	\$4,672.90		4695-101	DW-12
Iron aggregate pond application research project	\$20,000.00	\$453.07	\$19,546.93	\$232.07	4695-101	DW-12
Project Operations						
2018 Tanners Alum Facility Monitoring	\$15,000.00	\$12,158.00	\$2,842.00	\$198.50	4650-101	TaL-3
Capital Improvements						
Wakefield Park/Frost Avenue Stormwater Project	\$175,000.00	\$66,309.20	\$108,690.80	\$3,586.90	4128-553	WL-1
Commercial Sites Retrofit Projects 2018 (Targeted Retrofits)	\$55,000.00	\$11,170.20	\$43,829.80	\$4,093.00	4128-518	DW-6
School Sites Retrofit Projects 2018 (Targeted Retrofits)	\$55,000.00	\$19,924.50	\$35,075.50	\$2,374.50	4128-518	DW-6
Church Sites Retrofit Projects 2018 (Targeted Retrofit)	\$55,000.00	\$12,883.50	\$42,116.50	\$322.00	4128-518	DW-6
Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed)	\$125,000.00	\$23,026.52	\$101,973.48		4128-518	Bel-4
BMP Incentive Fund: Gen1 BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$50,000.00	\$41,995.26	\$8,004.74	\$1,595.00	4682-529	DW-6
Lowering West Vadnais Lake Outlet	\$50,000.00	\$0.00	\$50,000.00		4128-520	DW-9
Cottage Place Wetland Restoration	\$100,000.00	\$59,509.30	\$40,490.70	\$7,734.08	4128-518	DW-1, DW-8
Markham Pond Aeration Project and Grant Reporting	\$1,000.00	\$5,252.48	-\$4,252.48	\$1,556.50	4128-551	KC-1
Aldrich Arena Plans and Specifications	\$125,000.00	\$139,998.70	-\$14,998.70	\$20,707.06	4682-529	DW-6
Willow Pond CMAC Implementation	\$100,000.00	\$129,316.11	-\$29,316.11	\$504.00	4128-554	Bel-4
CIP Project Repair & Maintenance						
Kohlman Lake Macrophyte Mgmt	\$5,000.00	\$4,032.00	\$968.00		4695-101	KL-3
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$70,225.15	\$4,774.85	\$11,323.95	4128-516	DW-5
2019 CIP Maintenance and Repairs	\$150,000.00	\$91,042.35	\$58,957.65	\$2,074.50	4128-516	DW-5
2020 CIP Maintenance and Repairs	\$150,000.00	\$0.00	\$150,000.00		4128-516	DW-5

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

Subtotal \$145,123.31

TOTAL PAYABLE FOR PERIOD 07/20/2019 - 08/23/2019

\$145,123.31

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

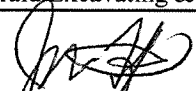
Bradley J. Lindaman, Vice President

Capital Improvement Project Maintenance/Repairs 2019
Progress Payment Number 4


1.0	Total Completed Through This Period:	<u>\$456,135.00</u>	
2.0	Total Completed Previously Completed:	<u>\$373,481.00</u>	
3.0	Total Completed This Period:		<u>\$82,654.00</u>
4.0	Amount Previously Retained:	<u>\$18,674.05</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$0.00</u>
6.0	Total Amount Retained (See Note 2):	<u>\$18,674.05</u>	
7.0	Retainage Released Through This Period:		<u>\$18,674.05</u>
8.0	Total Retainage Remaining:	<u>\$0.00</u>	
9.0	Amounts Previously Paid:	<u>\$354,806.95</u>	
10.0	Amount Due This Estimate:		<u><u>\$101,328.05</u></u>

Note 1: Retainage shall be 5 percent of the value of the Work completed.

SUBMITTED BY:

Name: Jason Fitzgerald Date: 9-5-19
Title: President
Contractor: Fitzgerald Excavating & Trucking, Inc.
Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 9/5/2019
Title: District Engineer
Engineer: Barr Engineering Company
Signature: 

APPROVED BY:

Name: Marj Ebensteiner Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District
Signature: _____

Capital Improvement Project Maintenance/Repairs 2019
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through July 15, 2019 for Progress Payment Number 4

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
1.04.A	Mobilization/Demobilization	L.S.	1	15,000.00	15,000.00	1.00	\$15,000.00	0.80	\$12,000.00	0.20	\$3,000.00
1.04.B	Control of Water	L.S.	1	10,000.00	10,000.00	1.00	\$10,000.00	0.80	\$8,000.00	0.20	\$2,000.00
1.04.AB	Traffic Control	L.S.	1	2,000.00	2,000.00	1.00	\$2,000.00	0.80	\$1,600.00	0.20	\$400.00
Site 1 – Tamarack Swamp, Woodbury											
1.04.F	Sediment Log (6-Inch Diameter)	L.F.	60	5.00	300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.C	Sediment/Muck Cleanout (55 C.Y.)	L.S.	1	1,500.00	1,500.00	1	\$1,500.00	0	\$0.00	1	\$1,500.00
1.04.D	Disposal of Sediment/Muck Cleanout (Level 3 Material)	TON	85	50.00	4,250.00	14	\$700.00	0	\$0.00	14	\$700.00
1.04.G	Paver Sweeping (1,400 S.Y.)	S.Y.	1,400	2.00	2,800.00	1,400	\$2,800.00	0	\$0.00	1400	\$2,800.00
1.04.H	Removal, Disposal, and Replacement of Existing 1 ½” to 2” Clear Washed Filter Rock	C.Y.	3	50.00	150.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	1.50	150.00	60	\$90.00	0	\$0.00	60	\$90.00
Site 2 – 5th Street Wetland, Oakdale											
1.04.I	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	65	25.00	1,625.00	65	\$1,625.00	65	\$1,625.00	0	\$0.00
1.04.K	Silt Fence	L.F.	35	1.50	52.50	0	\$0.00	0	\$0.00	0	\$0.00
1.04.E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	2.00	420.00	194	\$388.00	0	\$0.00	194	\$388.00
Site 3 – Tanners Wetland, Oakdale											
1.04.I	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	7.00	4,060.00	580	\$4,060.00	580	\$4,060.00	0	\$0.00
1.04.E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	600	1.50	900.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 4 – Gervais Mill Park, Little Canada											
1.04.J	Install Flotation Silt Curtain	L.F.	55	15.00	825.00	55	\$825.00	55	\$825.00	0	\$0.00
1.04.H	Removal, Disposal, and Replacement of Existing 1 ½” to 2” Clear Washed Filter Rock	C.Y.	16	50.00	800.00	16	\$800.00	16	\$800.00	0	\$0.00
1.04.N	Remove and Replace Plastic Netting (Tensar Tri Ax Geogrid or approved equal)	S.Y.	24	13.00	312.00	24	\$312.00	24	\$312.00	0	\$0.00
1.04.E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	1.50	600.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 5 – PCU Pond, North St. Paul											
1.04.L	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Flotation Silt Curtain or	L.F.	540	3.00	1,620.00	340	\$1,020.00	340	\$1,020.00	0	\$0.00
1.04.K	Silt Fence	L.F.	540	3.00	1,620.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.C	Sediment/Muck Cleanout (1,500 C.Y.)	L.S.	1	50,000.00	50,000.00	1	\$50,000.00	1	\$50,000.00	0	\$0.00
1.04.D	Disposal of Sediment/Muck Cleanout (Level 2 & 3 Material)	TON	2,325	30.00	69,750.00	2,996	\$89,880.00	2996	\$89,880.00	0	\$0.00
1.04.E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	30	2.00	60.00	364	\$728.00	222	\$444.00	142	\$284.00
Site 6 – Hayward Avenue Ponds, Oakdale											
1.04.L	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.M	Inlet Protection	EACH	1	100.00	100.00	2	\$200.00	2	\$200.00	0	\$0.00
1.04.J	Flotation Silt Curtain or	L.F.	60	3.00	180.00	27	\$81.00	27	\$81.00	0	\$0.00
1.04.K	Silt Fence	L.F.	60	3.00	180.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.O	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	5,000.00	5,000.00	1	\$3,000.00	1	\$3,000.00	0	\$0.00
1.04.P	Clean Out Catch Basin	EACH	1	1,500.00	1,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.Q	Cleanout Sediment from Flared End Section and Pipe to Structure	L.S.	1	700.00	700.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.C	Sediment/Muck Cleanout (450 C.Y.)	L.S.	1	13,000.00	13,000.00	1	\$13,000.00	1	\$13,000.00	0	\$0.00
1.04.D	Disposal of Sediment/Muck Cleanout (Levels 2 & 3 Material)	TON	698	40.00	27,920.00	885	\$35,400.00	885	\$35,400.00	0	\$0.00
1.04.R	MN/DOT Class III Riprap with Type IV Geotextile Filter Fabric	TON	10	45.00	450.00	15	\$675.00	0	\$0.00	15	\$675.00
1.04.E	Site and Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	667	2.00	1,334.00	511	\$1,022.00	0	\$0.00	511	\$1,022.00
Site 7 – McKnight Basin, St. Paul											
1.04.L	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Flotation Silt Curtain	L.F.	580	15.00	8,700.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.N	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	500.00	500.00	1	\$500.00	1	\$500.00	0	\$0.00
1.04.C	Sediment/Muck Cleanout (700 C.Y.)	L.S.	1	28,000.00	28,000.00	1	\$28,000.00	1	\$28,000.00	0	\$0.00
1.04.D	Disposal of Sediment/Muck Cleanout (Levels 2 & 3 Material)	TON	1,085	35.00	37,975.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.E	Site and Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	167	2.00	334.00	177	\$354.00	135	\$270.00	42	\$84.00

Capital Improvement Project Maintenance/Repairs 2019
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through July 15, 2019 for Progress Payment Number 4

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 8 – Fish Creek Tributary Detention Pond, Maplewood											
1.04.L	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Flotation Silt Curtain or	L.F.	130	3.00	390.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.K	Silt Fence	L.F.	130	3.00	390.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.C	Sediment/Muck Cleanout (130 C.Y.)	L.S.	1	4,550.00	4,550.00	1	\$4,550.00	1	\$4,550.00	0	\$0.00
1.04.D	Disposal of Sediment/Muck Cleanout (Level2 & 3 Material)	TON	202	35.00	7,070.00	312	\$10,920.00	312	\$10,920.00	0	\$0.00
1.04.R	MN/DOT Class III Riprap with Type IV Geotextile Filter Fabric	TON	10	45.00	450.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.R	MN/DOT Class V Riprap with Type VII Geotextile Filter Fabric	TON	10	45.00	450.00	14	\$630.00	0	\$0.00	14	\$630.00
1.04.S	Mill Bituminous Surface (2")	S.Y.	460	11.50	5,290.00	524	\$6,026.00	0	\$0.00	524	\$6,026.00
1.04.T	Type SPWEA330F Wearing Course Mixture (3")	TON	78	150.00	11,700.00	90.3	\$13,545.00	0	\$0.00	90.3	\$13,545.00
1.04.E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	200	2.00	400.00	333	\$666.00	222	\$444.00	111	\$222.00
Site 9 – Suburban Pond, St. Paul											
1.04.L	Construction Entrance	EACH	2	500.00	1,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Flotation Silt Curtain or	L.F.	200	3.00	600.00	50	\$150.00	50	\$150.00	0	\$0.00
1.04.K	Silt Fence	L.F.	200	3.00	600.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.M	Inlet Protection	EACH	10	100.00	1,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.N	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	5,000.00	5,000.00	0.8	\$4,000.00	0.5	\$2,500.00	0.3	\$1,500.00
1.04.X	Investigative Excavation Crew	HOUR	12	150.00	1,800.00	6	\$900.00	6	\$900.00	0	\$0.00
1.04.C	Sediment/Muck Cleanout (1,180 C.Y.)	L.S.	1	40,000.00	40,000.00	1	\$40,000.00	1	\$40,000.00	0	\$0.00
1.04.D	Disposal of Sediment/Muck Cleanout (Level 3 Material)	TON	1,829	40.00	73,160.00	1,525	\$61,000.00	1525	\$61,000.00	0	\$0.00
1.04.R	MN/DOT Class III Riprap with Type IV Geotextile Filter Fabric	TON	92	45.00	4,140.00	74	\$3,330.00	0	\$0.00	74	\$3,330.00
1.04.E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	2,444	2.00	4,888.00	1,000	\$2,000.00	1000	\$2,000.00	0	\$0.00
Site 10 – Grass Lake, Shoreview											
Alternate A (Snail Lake Area)											
1.04.A	Mobilization/Demobilization	L.S.	1	2,000.00	2,000.00	1	\$2,000.00	0	\$0.00	1	\$2,000.00
1.04.O	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	2,000.00	2,000.00	1	\$2,000.00	0	\$0.00	1	\$2,000.00
1.04.L	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.K	Silt Fence	L.F.	280	1.00	280.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AA	Remove and Replace Bituminous Pavement	S.Y.	80	3.00	240.00	65	\$195.00	0	\$0.00	65	\$195.00
1.04.AC	Common Excavation (P)	C.Y.	100	10.00	1,000.00	100	\$1,000.00	0	\$0.00	100	\$1,000.00
1.04.U	MN/DOT Common Borrow (P)	C.Y.	145	18.00	2,610.00	145	\$2,610.00	0	\$0.00	145	\$2,610.00
1.04.V	Topsoil Borrow (P)	C.Y.	85	18.00	1,530.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	510	3.00	1,530.00	1,037	\$3,111.00	0	\$0.00	1037	\$3,111.00
Alternate B (Pedestrian Tunnel)											
1.04.A	Mobilization/Demobilization	L.S.	1	1,000.00	1,000.00	1	\$1,000.00	0	\$0.00	1	\$1,000.00
1.04.W	Furnish and Install Aluminum Stop Log System (by Whippis, Inc. local supplier Kodru Equipment , Chaska, MN 952-240-4584 or approved equal)	L.S.	1	3,250.00	3,250.00	1	\$3,250.00	0	\$0.00	1	\$3,250.00
1.04.E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	80	3.00	240.00	0	\$0.00	0	\$0.00	0	\$0.00
Alternate D (North Gramsie Ditch Block)											
1.04.A	Mobilization/Demobilization	L.S.	1	1,000.00	1,000.00	1	\$1,000.00	0	\$0.00	1	\$1,000.00
1.04.O	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	2,000.00	2,000.00	1	\$2,000.00	0	\$0.00	1	\$2,000.00
1.04.K	Silt Fence	L.F.	195	2.00	390.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.U	MN/DOT Common Borrow (P)	C.Y.	80	14.00	1,120.00	80	\$1,120.00	0	\$0.00	80	\$1,120.00
1.04.V	Top Soil Borrow (P)	C.Y.	85	18.00	1,530.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	500	3.00	1,500.00	488	\$1,464.00	0	\$0.00	488	\$1,464.00

Total of Extensions = \$ 483,265.50 \$432,427.00 \$373,481.00 \$58,946.00

Capital Improvement Project Maintenance/Repairs 2019
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through July 15, 2019 for Progress Payment Number 4

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Change Orders											
C.O.2A	Furnish, Install and Remove Sandbags for Gramsie Rd Pedestrian Tunnel Area	L.S.	1	12,908.00	12,908.00	1	\$12,908.00	0	\$0.00	1	\$12,908.00
C.O.2B	Additional 12-inch Stop Log on Stop Log Structure	L.S.	1	3,800.00	3,800.00	1	\$3,800.00	0	\$0.00	1	\$3,800.00
C.O.2C	Fish Creek Tributary Culvert Replacement	L.S.	1	7,000.00	7,000.00	1	\$7,000.00	0	\$0.00	1	\$7,000.00
C.O.2D	Snail Lake Park Repairs	L.S.	1	56,000.00	56,000.00	0	\$0.00	0	\$0.00	0	\$0.00
GRAND TOTALS							\$456,135.00	\$373,481.00	\$82,654.00		

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
August 21, 2019
File No: 9M

	Balance
General Account	<u>\$2,481.00</u>

Permit Program

Permit Application Coversheet

Date September 12, 2019

Project Name Contanda Terminal Berm Repair

Project Number 19-37

Applicant Name Scott King, Contanda Terminals, LLC

Type of Development Maintenance

Property Description

This project is located at 2175 Childs Road along the Mississippi River in St. Paul. In April 2019, the existing containment levy at the site was breached due to spring river flooding. This breach eroded a section of the levy resulting in a wash-out in the terminal and damage to a sump structure and drain tile. Due to the urgent need for timely repairs, the applicant requested preliminary approval from the watershed district and city. A temporary permit was issued by the District on 4/23/19. Due to the prolonged flooding, the work was not completed until mid-summer. The berm was replaced in-kind resulting in no net fill within the floodplain.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

There are no water quantity considerations.

Water Quality Considerations

Short Term

There are no short term water quality considerations.

Long Term

There are no long term water quality considerations.

Staff Recommendation

Staff recommends approval of this permit.

Attachments:

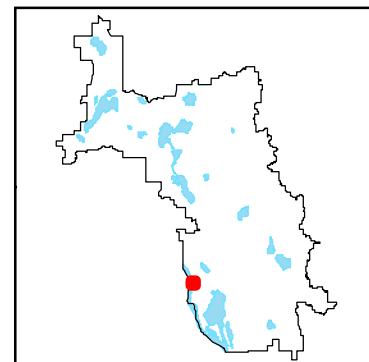
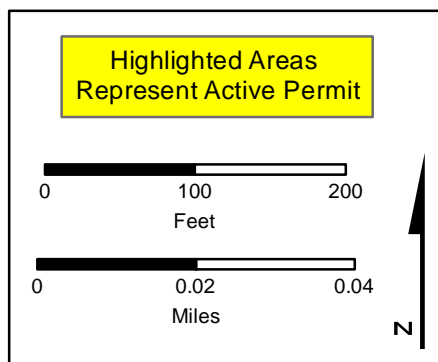
- ☒ Project Location Map
- ☒ Project Grading Plan

#19-37 Contanda Terminal Berm Repair



Wetlands	
■	Manage A
■	Manage B
■	Manage C
■	Lake
■	Sediment Pond
■	Not Assessed

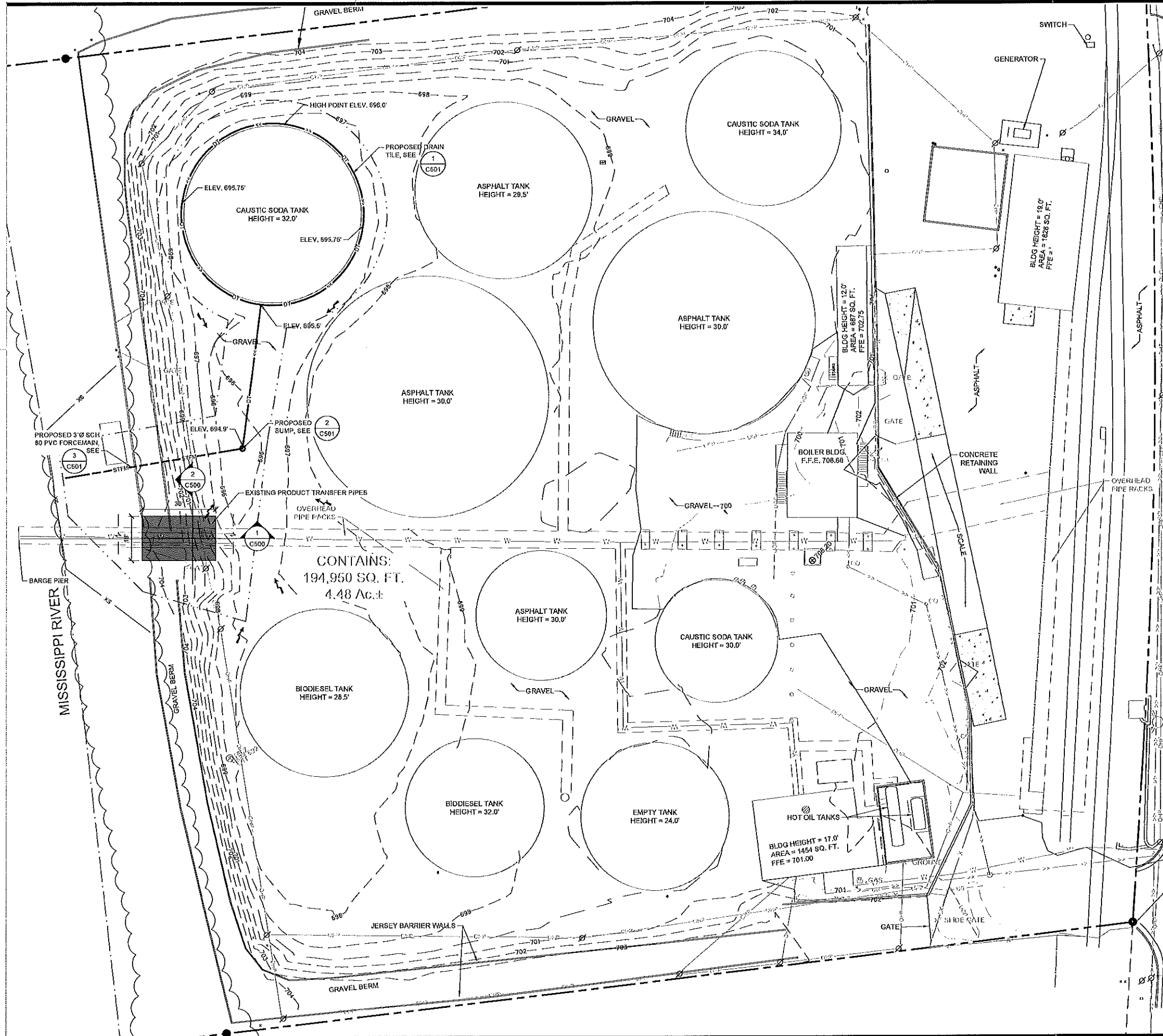
	RWMWD Boundary
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits



19-37

Special Provisions

None



CHILDS ROAD (PUBLICLY DEDICATED)

GRADING NOTES:

1. THE CONTRACTOR SHALL STAGE CLEARING AND GRADING OPERATIONS TO THE EXTENT PRACTICAL TO REDUCE THE AMOUNT OF DISTURBED AREA TO THE MINIMUM REQUIRED FOR IMMEDIATE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT CREATE ANY EARTH DISTURBANCE, REMOVE VEGETATION, OR OTHERWISE ENCR OACH BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES THROUGH GOPHER STATE ONE CALL PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES.
4. CONTOURS AND ELEVATIONS SHOWN REPRESENT FINISHED GRADE, UNLESS NOTED.
5. ADJUST ALL EXISTING CATCH BASIN AND MANHOLE CASTINGS, VALVE BOXES AND OTHER STRUCTURES TO MATCH NEW PAVEMENT ELEVATIONS.

SEDIMENT AND EROSION CONTROL NOTES:

THE CONTRACTOR SHALL SEQUENCE THEIR WORK AS FOLLOWS:

1. INSTALL SILT FENCE PRIOR TO GRADING OPERATIONS AND MAINTAIN THROUGHOUT CONSTRUCTION.
2. PROVIDE INTERIM INLET PROTECTION WITH SILT FENCE OR EQUIVALENT MEASURES FOR EXISTING CB'S AND/OR CULVERTS ON THE PROJECT SITE AND ANY OFF-SITE CB'S AND/OR CULVERTS RECEIVING DRAINAGE FROM THE PROJECT SITE.
3. INSTALL ROCK CONSTRUCTION ENTRANCE. PERFORM GRADING OPERATIONS, PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL FOR STOCKPILE AREAS DURING CONSTRUCTION. PROVIDE INLET PROTECTION ON NEW CB'S AND SEDIMENT CONTROL AS THE CONSTRUCTION PROGRESSES.
4. COMPLETE GRADING OPERATIONS AND INSTALL PAVEMENTS, ESTABLISH TURF AND PROVIDE OTHER SITE IMPROVEMENTS.
5. INSTALL PERMANENT EROSION CONTROL (BODDING, SEEDING, MULCHING, EROSION CONTROL BLANKET, RIP RAP ETC.) ON ALL AREAS NOT ALREADY COMPLETED WITH FINAL TURF ESTABLISHMENT OR OTHER EROSION CONTROL.
6. REMOVE SILT FENCE, ROCK CONSTRUCTION ENTRANCE AND CB INLET PROTECTION AFTER TURF IS ESTABLISHED.
7. ADJACENT STREETS AND ALLEYS MUST BE SWEEPED TO KEEP THEM FREE OF SEDIMENT. CONTRACTOR MUST MONITOR CONDITIONS AND SWEEP AS NEEDED OR WITHIN 24 HOURS OF NOTICE BY THE CITY.

LEGEND:

- LEVEE REPAIR AREA, SEE DETAILS C500
- EXISTING CONTOUR
- PROPOSED CONTOUR
- X EXISTING FENCE
- XS SILT FENCE (SEE DETAIL 2/C500)
- RIGHT OF WAY / PROPERTY LINE
- CONSTRUCTION LIMITS
- DT DRAIN TILE
- STFM STORM SEWER FORCE MAIN
- DRAINAGE ARROW



0 10 20 40
SCALE IN FEET



**CONTANDA
TERMINALS LLC**

2175 CHILDS ROAD
ST. PAUL, MN 55106

**2019 FLOOD
REPAIRS**

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH
ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

CONSTRUCTION DOCUMENTS

NO.	DATE	ISSUED FOR CONSTRUCTION	ISSUE RECORD
0	5-15-19	ISSUED FOR CONSTRUCTION	

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

SIGNATURE: *Kraig Klund*
PRINTED NAME: KRAIG KLUND
LIC. NO.: 43955 DATE: 5-15-19

444 Cedar Street, Suite 1500
Saint Paul, MN 55101
651.292.4400
tkda.com

TKDA

DESIGNED	DRAWN	CHECKED
KEK	AMK	RBK

**GRADING, DRAINAGE,
AND EROSION
CONTROL PLAN**

C200

17482.000

Permit Application Coversheet

Date September 12, 2019

Project Name McKnight Road- Anchor Block Commons

Project Number 19-38

Applicant Name Morgan Dawley, City of North St. Paul

Type of Development Mixed Use

Property Description

This project is located south/southeast of McKnight Road North and Highway 36 in the City of North St. Paul. The applicant is proposing to redevelop the formerly industrial area and complete simultaneous improvements to the intersection of Anchor Drive and McKnight Road, and a mill and overlay of a section of McKnight. The mixed use development will include a new road (Anchor Drive) through the center with proposed apartments, storage facility, and gas station. A Phase I and II Environmental Site Assessment completed in 2014 showed contaminated soil and groundwater on the site. Four clay-lined filtration basins are proposed to treat stormwater to prevent interaction and migration with groundwater. Pretreatment will include sumped catch basins with SAFL baffles. The city will own and operate the stormwater facilities in perpetuity. Private developers will apply for future erosion and sediment control permits with the District as part of a common plan of development. A Wetland Conservation Act (WCA) Notice of Decision issued on 8/16/19 confirmed an existing wet ditch along McKnight Road is incidental and therefore not jurisdictional through WCA.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

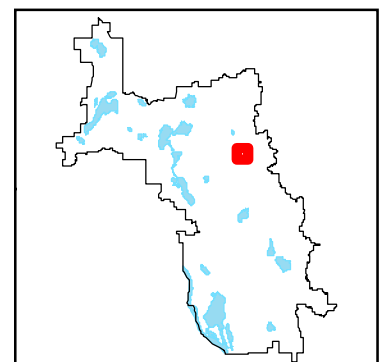
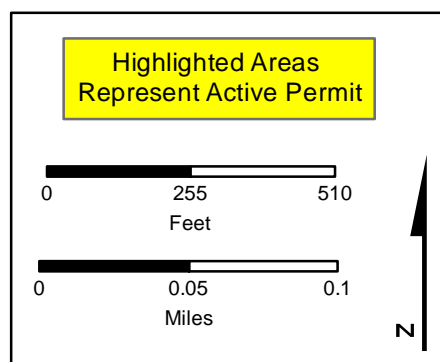
- ☒ Project Location Map
- ☒ Project Grading Plan

#19-38 McKnight Road - Anchor Block Commons



Wetlands	
■	Manage A
■	Manage B
■	Manage C
■	Lake
■	Sediment Pond
■	Not Assessed

	RWMWD Boundary
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits



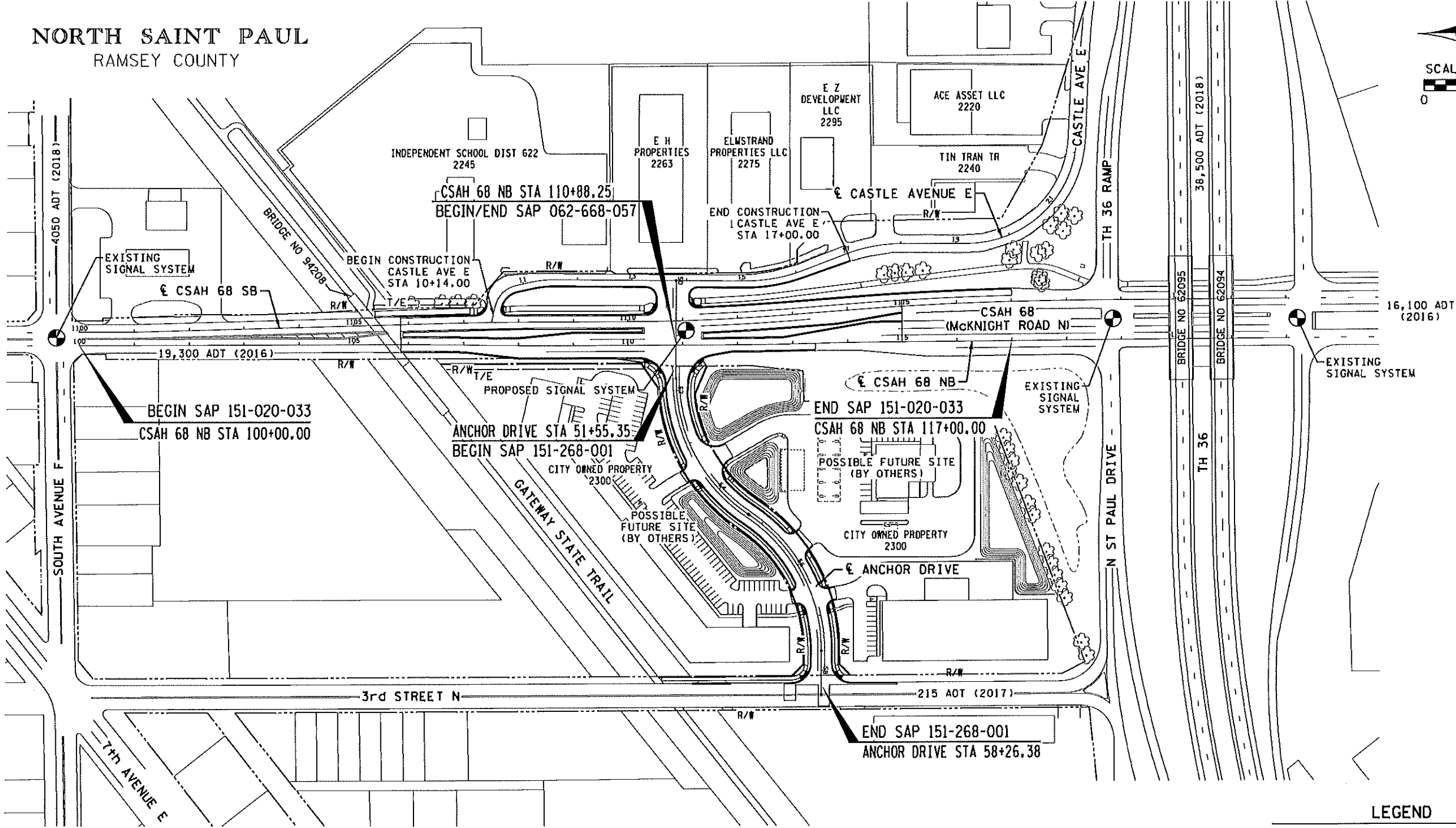
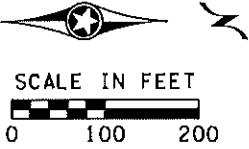
19-38

Special Provisions

1. The applicant shall submit a final set of signed construction plans.

CSAH 68 (McKnight Road N)

NORTH SAINT PAUL
RAMSEY COUNTY



LEGEND

- INPLACE PAVEMENT
- 47 INPLACE TOPOGRAPHY SHEET NO.
- 48 MISCELLANEOUS REMOVALS SHEET NO.
- 51 CONSTRUCTION PLAN SHEET NO.
- 71 DRAINAGE PLAN SHEET NO.
- 90 SIGNING PLAN SHEET NO.

PLOTTED/REVISED: 8/28/2019

PATH & FILENAME: Projects\Minnesota\013350-000\Cad\Plan\3350-000_g01.dgn

NO.	DATE	BY	CHK	REVISIONS

Design By DSS	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Drawn By CHK	
Checked By DSS	
Approved By OSS	
PRINT NAME: DANILO S. SOSA, JR., PE	
DATE: 8/28/2019	LICENSE # 49048

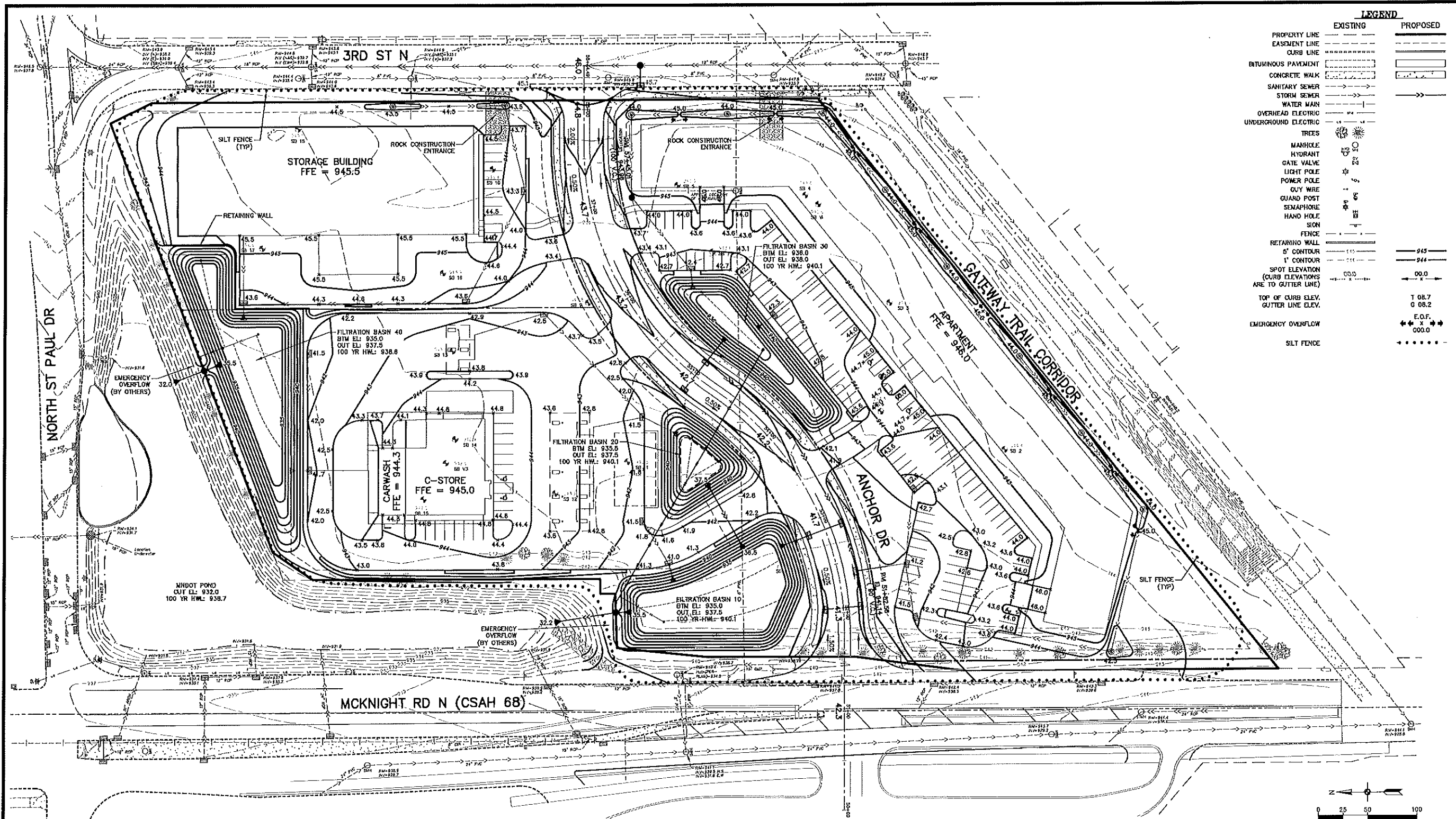


CSAH 68 (McKnight Road)
Intersection Improvements
North Saint Paul, Minnesota

NORTH SAINT PAUL, MINNESOTA

GENERAL LAYOUT
SAP 151-020-033, SAP 151-268-001, SAP 062-668-057

SHEET
2
OF
110
SHEETS



LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	---
EASEMENT LINE	---
CURB LINE	---
BITUMINOUS PAVEMENT	---
CONCRETE WALK	---
SANITARY SEWER	---
STORM SEWER	---
WATER MAIN	---
OVERHEAD ELECTRIC	---
UNDERGROUND ELECTRIC	---
TREES	---
MANHOLE	---
HYDRANT	---
GATE VALVE	---
LIGHT POLE	---
POWER POLE	---
GUY WIRE	---
GUARD POST	---
SEMAPHORE	---
HAND HOLE	---
SIEN	---
FENCE	---
RETAINING WALL	---
5' CONTOUR	---
1' CONTOUR	---
SPOT ELEVATION (CURB ELEVATIONS ARE TO GUTTER LINE)	---
TOP OF CURB ELEV. GUTTER LINE ELEV.	---
EMERGENCY OVERFLOW	---
SILT FENCE	---

Carlson McCain
ENVIRONMENTAL - ENGINEERING - SURVEYING
3890 Pleasant Ridge Dr. NE #100, Blaine, MN
Phone: 763-489-7900 Fax: 763-489-7959

FINISHED GRADING, DRAINAGE, & EROSION CONTROL PLAN (FOR REFERENCE ONLY)
ANCHOR BLOCK COMMONS
North St. Paul, Minnesota

CITY OF NORTH ST. PAUL
2400 Margaret Street
North St. Paul, MN, 55109

REVISIONS	
1.	
DRAWN BY:	JTR
DESIGNED BY:	JTR
ISSUE DATE:	08/28/19

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

Name: Joseph T. Radach, PE
Signature:
Date: 08/28/19 License #: 45889

GRADING NOTES

1. ROCK CONSTRUCTION ENTRANCE, SILT FENCE, AND EXISTING CATCH BASIN INLET PROTECTION SHALL BE INSTALLED PRIOR TO GRADING CONSTRUCTION AND SHALL BE MAINTAINED UNTIL THE SITE HAS BEEN STABILIZED.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE START OF GRADING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES OR VARIATIONS FROM THE PLAN.
3. CONTRACTOR SHALL STRIP, STOCKPILE AND RESPREAD SUFFICIENT TOPSOIL TO PROVIDE A MINIMUM OF 4" OF TOPSOIL OVER ALL DISTURBED AREAS EXCEPT ANCHOR DRIVE.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 CALENDAR DAYS AFTER LAND-DISTURBING WORK HAS TEMPORARILY OR PERMANENTLY CEASED.
5. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE MNDOT CAT.1 EROSION CONTROL BLANKET AND SEED, OR APPROVED EQUAL.

STORMWATER/INSPECTION NOTES

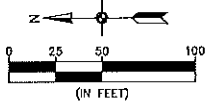
1. CONTRACTOR SHALL NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.
2. CONTRACTOR SHALL NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF STORMWATER FACILITIES.
3. AFTER THE DRAINAGE IS INSTALLED AND THE BASINS ARE BACKFILLED WITH THE FILTRATION MIX, SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE BASIN. THE BASIN SHALL BE PROTECTED FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION. (BY OTHERS)
4. KEEP BASINS OFFLINE AND PROTECTED FROM CONSTRUCTION ACTIVITY UNTIL ALL CONTRIBUTING AREAS ARE RESTORED.
5. THE SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES SHOWN ON THE PLANS ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

GOVERNING SPECIFICATIONS

1. THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE CITY OF NORTH ST. PAUL SPECIFICATIONS.
2. THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
3. THE LATEST EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS.

PROJECT SCOPE NOTES

1. THE PROPOSED LOCATIONS OF BUILDINGS, PAVEMENTS, UTILITIES, ETC. ARE APPROXIMATE.
2. STREET AND UTILITY WORK IS NOT PART OF THE GRADING CONTRACT.
3. THE PURPOSE OF THE PROJECT IS TO MASS GRADE THE SITE, COMPLETE SUUGRADE CORRECTIONS FOR THE PROPOSED BUILDINGS AND PUBLIC STREET, AND PARTIALLY CONSTRUCT THE STORMWATER TREATMENT BASINS. THE SUBGRADE CORRECTION AND STORMWATER TREATMENT LOCATIONS ARE SHOWN ON THE INTERIM GRADING PLANS.
4. THE FILTRATION BASINS WILL BE CONSTRUCTED WITH A CLAY LINER. THE DRAINAGE AND BASIN BACKFILL ARE NOT PART OF THE GRADING CONTRACT. THE CLAY LINER IS PART OF THE GRADING CONTRACT.



BENCHMARKS
1. RAMSEY COUNTY BENCHMARK STATION #240, LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF MCKNIGHT ROAD AND 15TH AVENUE EAST
ELEVATION = 961.975 (NAVD 88)



Permit Application Coversheet

Date September 12, 2019

Project Name Wooddale Flex Building

Project Number 19-39

Applicant Name Nick Scarrella, 7006 Fallbrook, LLC

Type of Development Office

Property Description

This project is located on Wooddale Drive east of I-494 in the City of Woodbury. The applicant is proposing to construct an office building and parking lot. Two filtration basins are proposed to treat stormwater. Filtration is being proposed due to poor soils. Pretreatment will include filter strips and sumped inlets.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

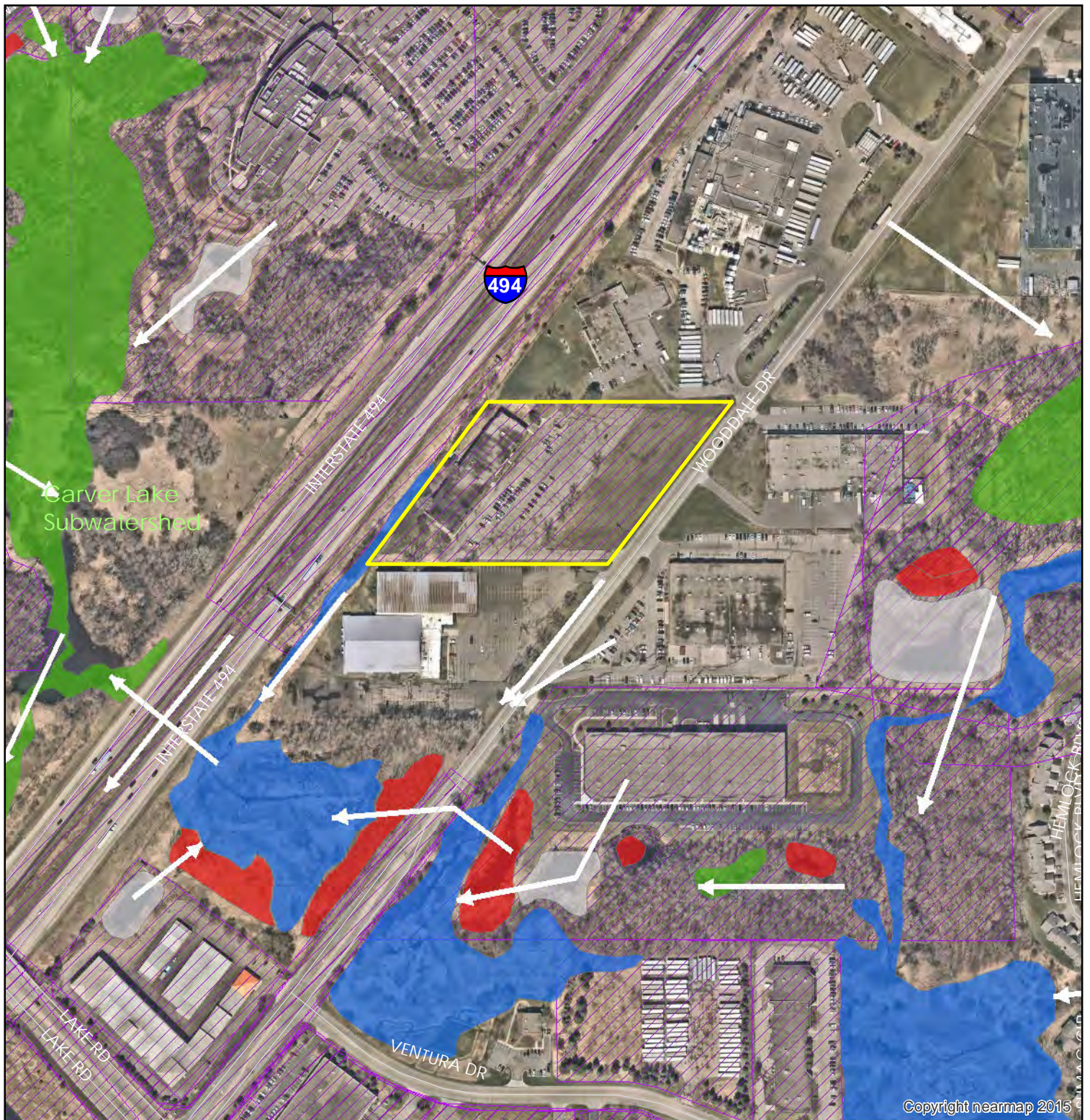
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

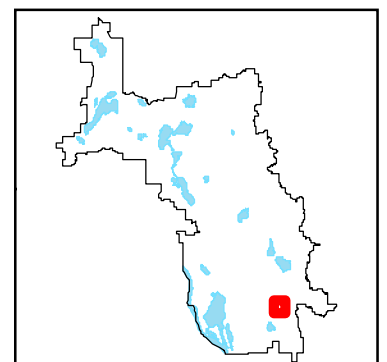
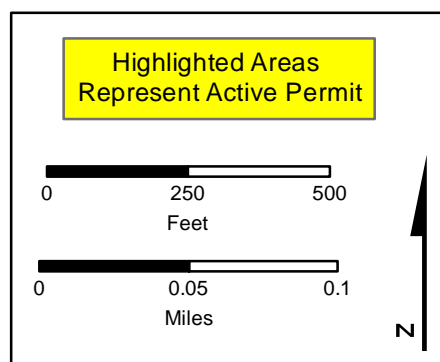
- ☒ Project Location Map
- ☒ Project Grading Plan

#19-39 Wooddale Flex Building



Wetlands	
■	Manage A
■	Manage B
■	Manage C
■	Lake
■	Sediment Pond
■	Not Assessed

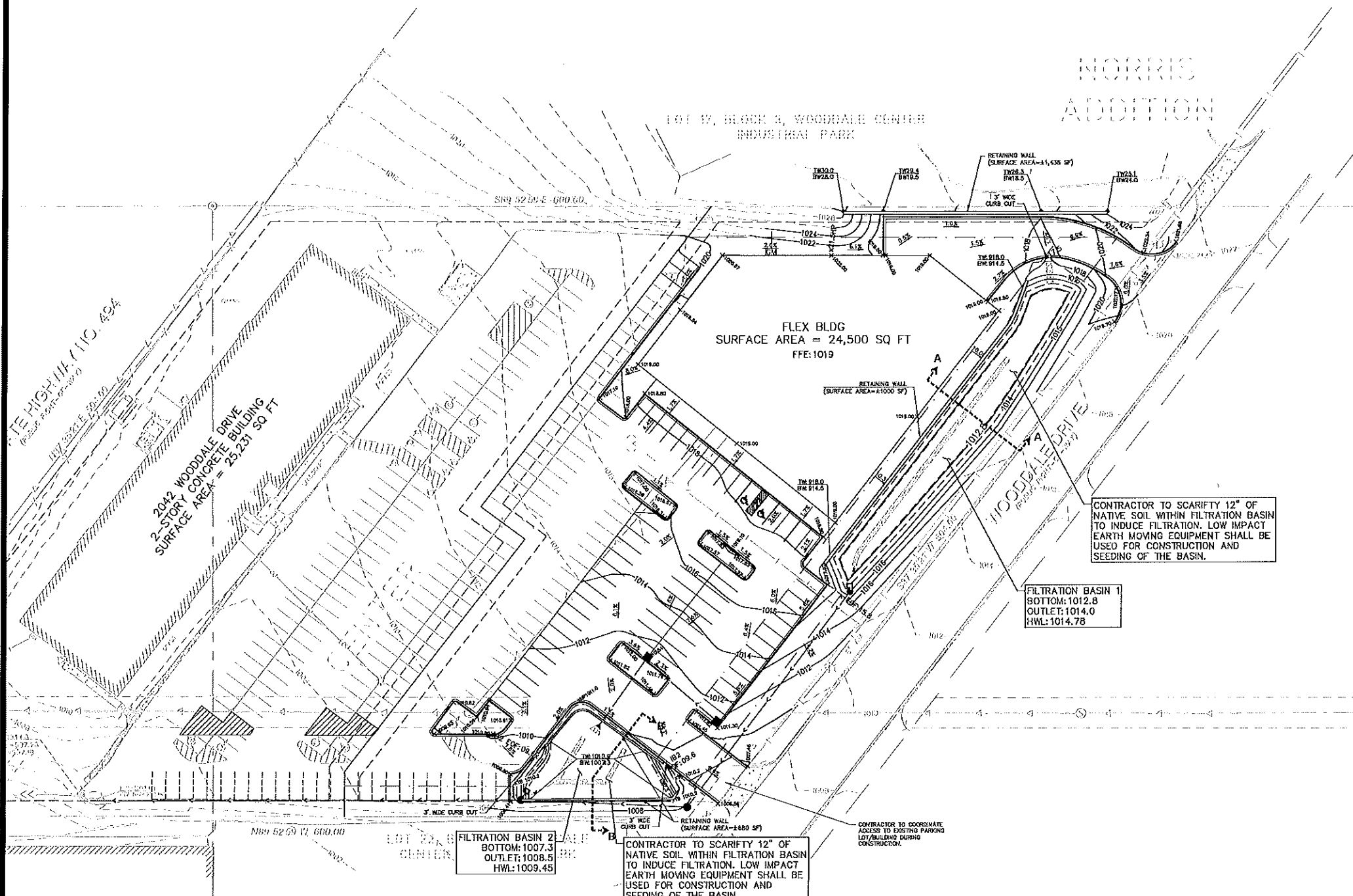
	RWMWD Boundary
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits



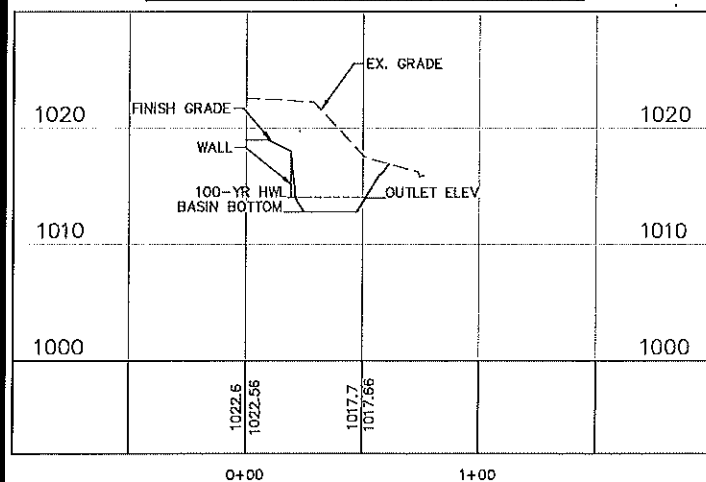
Special Provisions

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

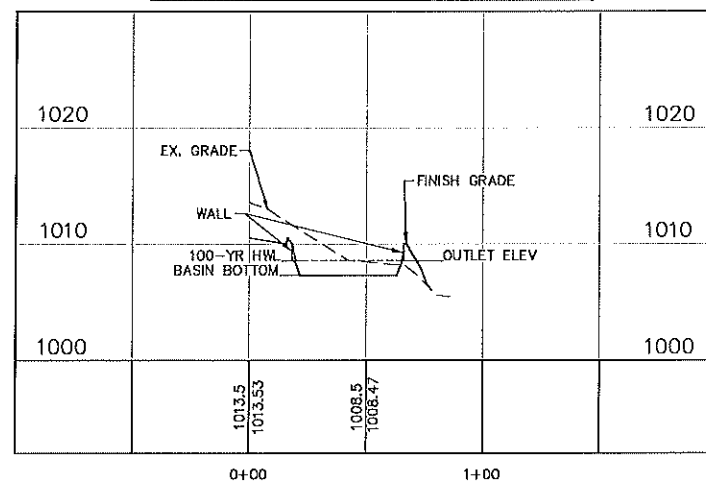
Drawing name: X:\2019\190072\plan sheets\190072.dwg, Aug. 28, 2019, 3:18pm



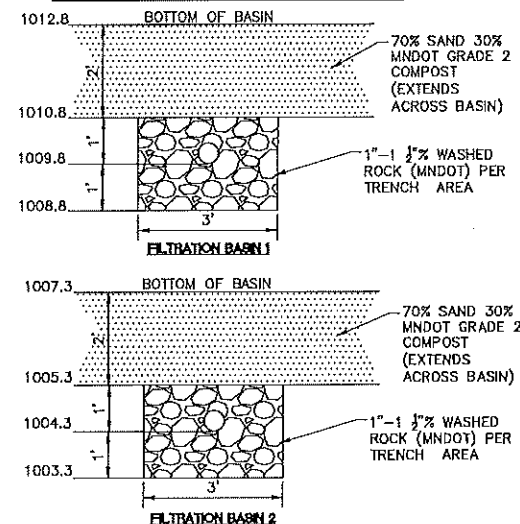
CROSS SECTION A-A (FIL. BASIN 1)



CROSS SECTION B-B (FIL. BASIN 2)



FILTRATION BASIN SECTION:



GENERAL NOTES:

1. A LAND DISTURBANCE PERMIT MUST BE OBTAINED PRIOR TO DISTURBING ANY SURFACE.
2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
3. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION & REMOVAL OF ALL EXISTING STRUCTURES WHICH INTERFERE WITHIN THE LIMITS OF DISTURBANCE THAT ARE SHOWN.
4. ALL DIMENSIONS, GRADES, EXISTING AND PROPOSED INFORMATION SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. CONTRACTOR SHALL PROTECT ADJOINING PROPERTIES & STRUCTURES FROM HAZARDS ASSOCIATED WITH HIS CONSTRUCTION ACTIVITIES & SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PROPERTIES & STRUCTURES THAT OCCUR AS A RESULT OF THESE ACTIVITIES.
6. CONTRACTOR SHALL NOT IMPEDE EXISTING TRAFFIC CIRCULATION TO ADJACENT BUSINESSES.
7. CONTRACTOR SHALL PERFORM SWEEPING ON PRIVATE PARKING AREAS AND PUBLIC STREETS AT LEAST ONCE A WEEK, ONCE A DAY IF NEEDED.
8. CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE TO PREVENT AND ELIMINATE ANY DUST NUISANCE OCCASIONED BY AND DURING CONSTRUCTION, UNTIL THE PROJECT HAS BEEN COMPLETED AND HANDLED OVER.
9. CONTRACTOR TO PROTECT THE EXISTING VEGETATION TO BE RETAINED DURING SITE AND BUILDING CONSTRUCTION PROCESS, AS APPLICABLE.
10. THE INSTALLATION OF EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITY.
11. OWNER SHALL BE RESPONSIBLE FOR MAINTAINING PROPERTY IN A MANNER THAT DOES NOT ALLOW CONTINUED REMOVAL OF ALL EXCESS DEBRIS & LEAF MATTER.
12. ALL PAVEMENTS SHALL SLOPE AWAY FROM PROPOSED BUILDING AT MINIMUM GRADE OF 2.0%.
13. ACCESSIBLE PARKING SPACE NOT TO EXCEED 2.0% IN ANY DIRECTION.
14. ALL CURB AND GUTTER AT ACCESSIBLE PARKING SPACES TO BE DEPRESSED WITH 5' TAPER.
15. THE CONTRACTOR SHALL KEEP THE ADJACENT ROADWAYS FREE OF DEBRIS AND PREVENT THE OFF-SITE TRACKING OF SOIL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY/COUNTY.
16. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL UNDERGROUND FACILITIES CONTACT NATION WIDE CALL SYSTEM 811 MINNESOTA ONE-CALL SYSTEM, INC. DIAL 811 TWO BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK.
17. ALL IMPROVEMENTS TO CONFORM WITH CITY, COUNTY & DOT CONSTRUCTION STANDARDS SPECIFICATION, LATEST EDITION.
18. SURVEYOR TO VERIFY BENCHMARK ELEVATION PRIOR TO START OF CONSTRUCTION.
19. SITE TOPSOIL PRIOR TO ANY CONSTRUCTION. REUSE STOCKPILE ON SITE.
20. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY SITE HAS POSITIVE DRAINAGE AWAY FROM BUILDINGS.
21. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT NO SLOPE ON THE SITE SHALL BE GREATER THAN A 3:1 SLOPE.

THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

FILTRATION BASIN NOTES:

1. ALL TEMPORARY EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO INSTALLATION/CONSTRUCTION OF INFILTRATION BASIN.
2. ALL STORMWATER RUNOFF SHALL BE DIVERTED AWAY FROM FILTRATION AREA TO TEMPORARY SEDIMENT POND UNTIL BASIN IS COMPLETELY GRADED AND PLANTED.
3. CONSTRUCTION OF BASIN SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF PONDED WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR COMPACTION.
4. COMPACTION AND SWEARING OF THE SOILS BENEATH THE FLOOR AND SIDE SLOPES OF THE INFILTRATION BASIN AREA SHALL BE MINIMIZED. DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE INFILTRATION BASIN SHALL BE CORDONED OFF TO PREVENT ACCESS BY HEAVY EQUIPMENT. ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE BASIN INCLUDES EXCAVATION HOES, LIGHT EQUIPMENT WITH TURF TYPE TIRES, MARSH EQUIPMENT OR WIDE TRACK LOADERS.
5. IF COMPACTION OCCURS AT THE BASE OF THE BASIN, THE SOIL SHALL BE REFRACED TO A DEPTH AT LEAST 36". IF SWEARING OCCURS, THE SWEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO-TILLING.
6. CONTRACTOR TO NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7978 AT LEAST 48 HOURS PRIOR TO THE CONSTRUCTION OF FILTRATION BUP.

SITE DATA

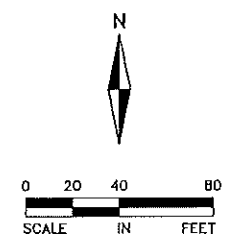
DISTURBED AREA:	1.26 AC
IMPERVIOUS AREA:	0.90 AC
PERVIOUS AREA:	2.16 AC
TOTAL SITE AREA:	

LEGEND

- SETBACKS
- - - EXISTING EASEMENTS
- ● PROPOSED CATCH BASINS
- - - PROPOSED STORM SEWER
- - - 1014 PROPOSED CONTOURS
- - - 1014 EXISTING CONTOURS
- x1014 PROPOSED SPOT ELEVATION



Know what's below.
Call before you dig.
Dial 811



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA.

CLARK WICKLUND, PE
08-27-19
Date License No.

QUALITY ASSURANCE/CONTROL

BY	DATE
DATE	ISSUE
07-08-19	CITY SUBMITTAL
07-30-19	BID SET
08-05-19	WATERSHED SUBMITTAL
8-27-19	WATERSHED RESUBMITTAL

PROJECT TEAM DATA
DESIGNED: DN
DRAWN: AKA
PROJECT NO: 219-0072

Permit Application Coversheet

Date September 12, 2019

Project Name Luther White Bear Subaru Parking

Project Number 19-40

Applicant Name Linda McGinty, The Luther Company, LLLP

Type of Development Parking Lot

Property Description

This project is located west of the existing Luther White Bear Subaru dealership on International Drive and Willow Lake Boulevard in the City of Vadnais Heights. The applicant is proposing to construct a surface parking lot and associated sidewalks. An underground infiltration system is proposed to treat stormwater. Pretreatment will include an isolator row.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

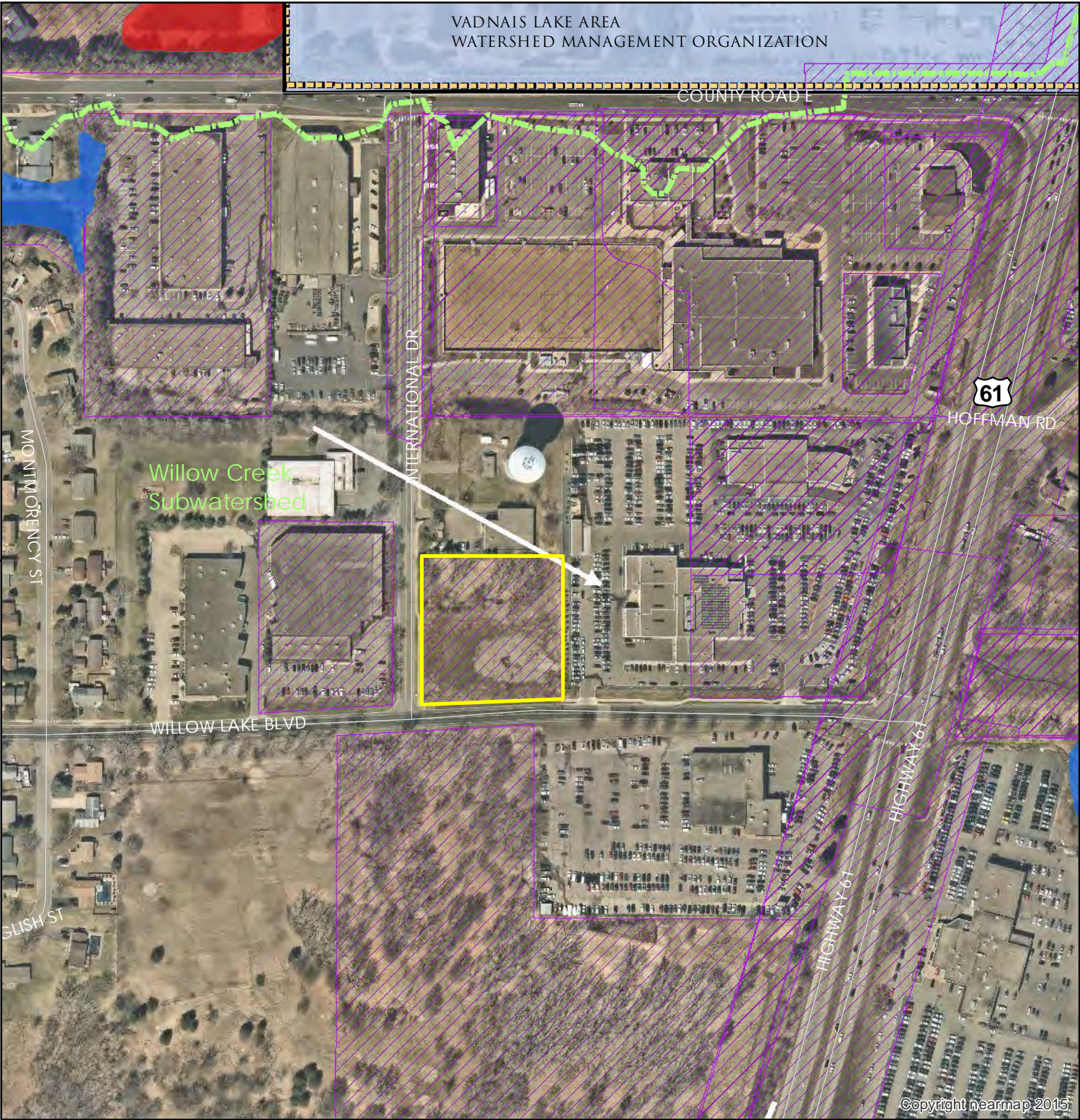
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

#19-40 Luther White Bear Subaru Parking



Note: Shaded area is outside RWMWD

Wetlands

Manage A

Manage B

Manage C

Lake

Sediment Pond

Not Assessed

RWMWD Boundary

WMU

Flow Arrows

Major Flow Arrows

Subwatersheds

Creeks

Permits

Highlighted Areas
Represent Active Permit

0

225

450

Feet

0

0.045

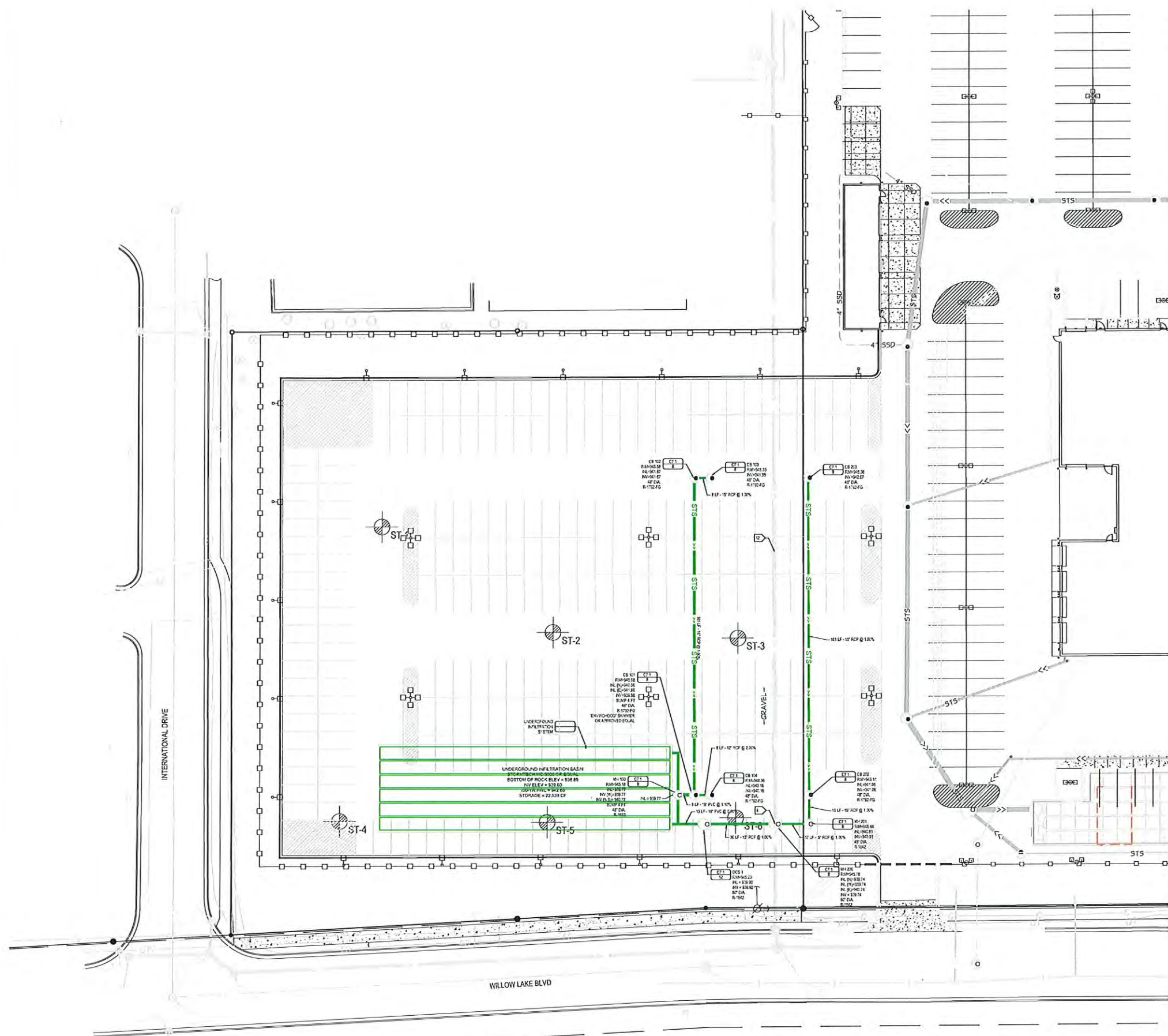
0.09

Miles

N

Special Provisions

1. The applicant shall submit the escrow fee of \$11,600.
2. The applicant shall submit a revised narrative that confirms there are no wetland impacts associated with the project.
3. The applicant shall include inspection manholes on Sheet C4.1.
4. The applicant shall include a BMP typical section and outlet detail in the plans.
5. The applicant shall submit the final set of signed construction plans.
6. The applicant shall submit an executed maintenance agreement for the proposed stormwater facilities.
7. The applicant shall submit a revised Existing Drainage map that includes Watershed 3S.
8. The applicant shall submit the final geotechnical report.
9. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
10. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit.



- GENERAL NOTES**
- UTILITY NOTES**
- WATERSHED NOTES**

DEVELOPER
THE LUTHER COMPANY, LLLP
3701 ALABAMA AVENUE SOUTH
ST. LOUIS PARK, MN
TEL: 612-252-5010 FAX: 612-252-5011

MUNICIPALITY
Vadna Heights
Minnesota

PROJECT
LUTHER
WB SUBARU
VADNA HEIGHTS, MN

ISSUE / REVISION HISTORY

CERTIFICATION
**PRELIMINARY
NOT FOR
CONSTRUCTION**

WATERSHED SUBMITTAL
AUGUST 14, 2019

LANDFORM
From Site to Finish

105 South Fifth Avenue
Suite 513
Minneapolis, MN 55401
Tel: 612-252-5010
Fax: 612-252-9077
Web: landform.net

FILE NAME: C411UT044
PROJECT NO: LUT19044

UTILITIES
C4.1

811
Know what's Below.
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NORTH

0 20 40

Permit Application Coversheet

Date September 12, 2019

Project Name Margaret Street Apartments

Project Number 19-41

Applicant Name James Winkels, North St. Paul Land & Development, LLC

Type of Development Residential

Property Description

This project is located at the southwest corner of 7th Avenue East and Margaret Street North in the City of North St. Paul. The applicant is proposing to demolish existing structures in order to construct a three-story apartment building with underground parking and space for retail. Three lined underground filtration systems are proposed to treat stormwater. Filtration is being proposed due to soil contamination concerns and high groundwater. Pretreatment will include sumped manholes and isolator rows.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

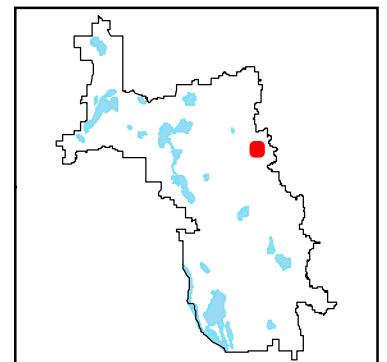
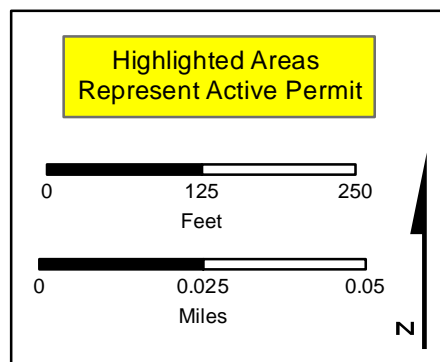
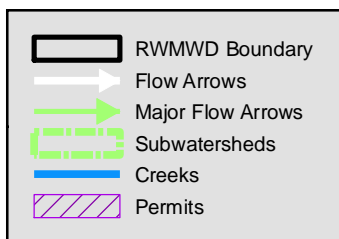
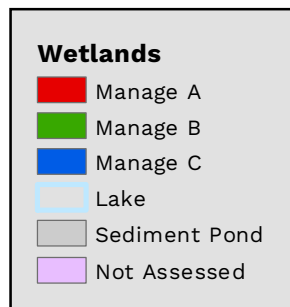
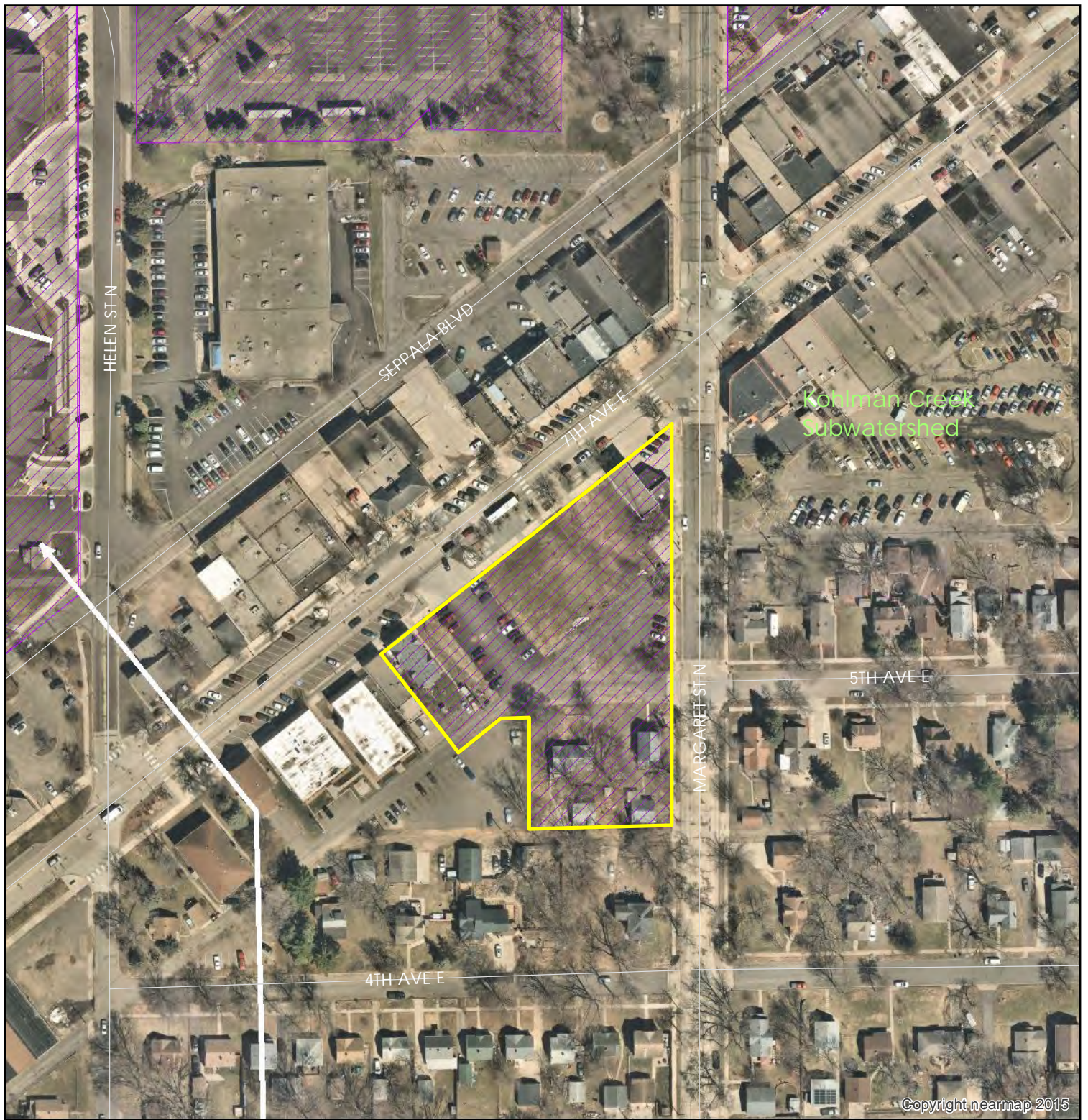
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

#19-41 Margaret Street Apartments



Special Provisions

1. The applicant shall submit the escrow fee of \$9,650.
2. The applicant shall revise the plans:
 - A. General Erosion Control Notes should be consistent with proposed design.
 - B. Detail for underground vaults should include a note that the impermeable liner fabric must extend to two feet above the 100-year High Water Level.
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 the final set of signed construction plans.
5. The applicant shall submit an executed maintenance agreement for the proposed stormwater facilities.
6. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan.
7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit.

REVISION	DATE	BY	DESCRIPTION
1	07/11/19	AW	ISSUED FOR PERMIT
2	07/11/19	AW	REVISIONS
3	07/11/19	AW	REVISIONS
4	07/11/19	AW	REVISIONS
5	07/11/19	AW	REVISIONS
6	07/11/19	AW	REVISIONS
7	07/11/19	AW	REVISIONS
8	07/11/19	AW	REVISIONS
9	07/11/19	AW	REVISIONS
10	07/11/19	AW	REVISIONS
11	07/11/19	AW	REVISIONS
12	07/11/19	AW	REVISIONS
13	07/11/19	AW	REVISIONS
14	07/11/19	AW	REVISIONS
15	07/11/19	AW	REVISIONS
16	07/11/19	AW	REVISIONS
17	07/11/19	AW	REVISIONS
18	07/11/19	AW	REVISIONS
19	07/11/19	AW	REVISIONS
20	07/11/19	AW	REVISIONS

PREPARED FOR:
NORTH SAINT PAUL LAND & DEVELOPMENT CO., LLC
100 AMCON BLVD, BAKER ROAD, SUITE 101
MINNETONKA, MN 55345

DESIGNED BY:
Westwood Professional Services, Inc.
100 AMCON BLVD, BAKER ROAD, SUITE 101
MINNETONKA, MN 55345
DATE: 08/29/19

MARGARET STREET ESTATES
NORTH ST. PAUL, MN

Westwood
Professional Services, Inc.
100 AMCON BLVD, BAKER ROAD, SUITE 101
MINNETONKA, MN 55345
DATE: 08/29/19

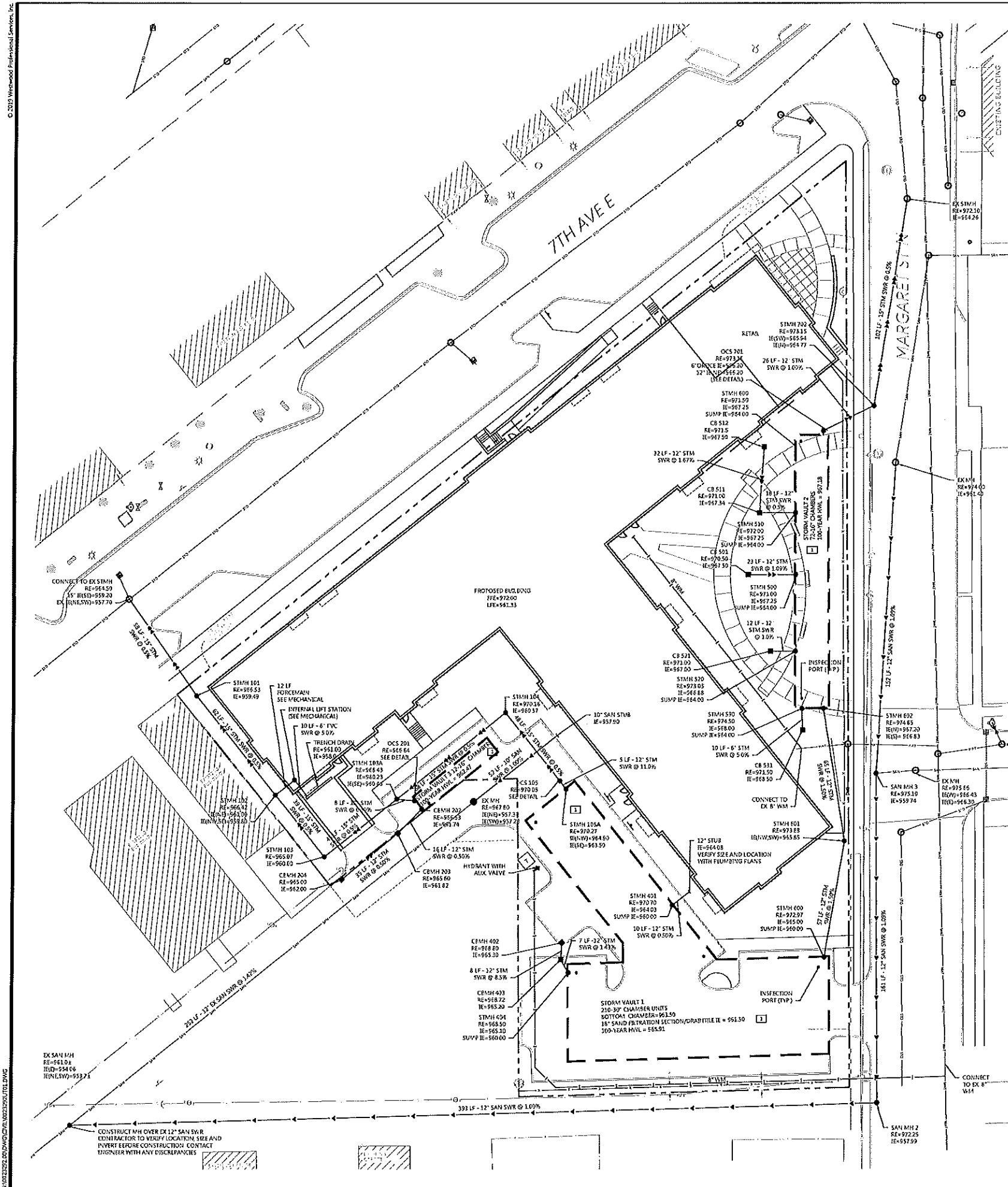
UTILITY PLAN

SHEET NUMBER

C500

DATE 08/29/19

MARGARET STREET ESTATES



UTILITY LEGEND

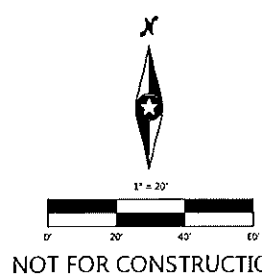
EXISTING	PROPOSED	PROPERTY LINE
---	---	PROPERTY LINE
---	---	EASEMENT LINE
---	---	CURB AND GUTTER
---	---	SANITARY SEWER
---	---	SANITARY SEWER FORCE MAIN
---	---	STORM SEWER
---	---	WATER MAIN
---	---	HYDRANT
---	---	GAS
---	---	UNDERGROUND ELECTRIC
---	---	OVERHEAD ELECTRIC
---	---	UNDERGROUND TELEPHONE
---	---	OVERHEAD TELEPHONE
---	---	TELEPHONE FIBER OPTIC
---	---	CABLE TELEVISION
---	---	DRAIN TILE
---	---	GATE VALVE
---	---	FLARED END SECTION (WITH R/F/R/T)
---	---	LIGHT POLE

GENERAL UTILITY NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND LIMITED MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION SHALL NOT BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF DISCREPANCIES.
- ALL SANITARY SEWER, STORM SEWER AND WATER MAIN MATERIAL AND INSTALLATIONS SHALL BE PER CITY REQUIREMENTS, MINNESOTA PLUMBING CODE, AND IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY FEDERAL, STATE AND LOCAL PERMITS FOR THE PROPOSED WORK OR VERIFY WITH THE OWNER OR ENGINEER THAT PERMITS HAVE BEEN OBTAINED. PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE ARRANGED WITH THE OWNER.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF DOORWAYS, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY CONNECTION LOCATIONS.
- ALL PRIVATE UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE SERVICE LINE CONSTRUCTION WITH THE UTILITY COMPANIES.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY CITY PERMITS FOR UTILITY CONNECTIONS, AND UTILITIES SHALL BE INSPECTED AND APPROVED BY THE CITY. THE CITY SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCING WITH THE UTILITY CONSTRUCTION OR ANY REQUIRED TESTING. CONTRACTOR SHALL NOT OPERATE, INTERFERE WITH, OR CONDUCT ANY PIPE OR HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WATER MAIN LENGTHS AS SHOWN ARE APPROXIMATE HORIZONTAL LENGTHS. ALLOW FOR ADDITIONAL PIPE WHEN INSTALLING ON SLOPES OR WHEN DEPRESSIONS ARE REQUIRED. THE JOINT DEFLECTIONS SHALL NOT EXCEED THE MAXIMUMS RECOMMENDED BY THE PIPE MANUFACTURER OR BY LOCAL GOVERNING SPECIFICATIONS. FITTINGS REQUIRED TO CONSTRUCT WATER MAIN SHALL BE INCLUDED IN WATER MAIN CONSTRUCTION.
- PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
- A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTIONS WITHIN 10 FEET OF THE CROSSING. INCLUDE CROSSINGS WITH STORM SEWER.
- UTILITY SERVICES TYPICALLY TERMINATE 5' OUTSIDE BUILDING WALL UNLESS OTHERWISE SHOWN OR NOTED.
- DUCTILE IRON WATER LINES SHALL BE CLASS 52, PER AWWA C115 OR C151. COPPER WATER LINES SHALL BE TYPE K PER ASTM B88. PVC WATER LINES SHALL BE PER AWWA C900 AND INSTALLED PER AWWA C905 IF ALLOWED BY CITY.
- ALL WATER LINES SHALL HAVE 7.5' MINIMUM COVER. INSULATE WATER MAIN IF LESS THAN 8' OF COVER. INSULATION SHALL BE DOW STYROFOAM HEATED 35 OR EQUIVALENT, WITH 4 INCHES OF THICKNESS.
- SANITARY SEWER PIPE OUTSIDE THE BUILDING ENVELOPE SHALL BE POLYETHYLENE GLASS FIBER (PEF) SCHEDULE 40 PER ASTM D2665. ALL PLASTIC SANITARY SEWER SHALL BE INSTALLED PER D2321. SOLVENT WELD JOINTS MUST INCLUDE USE OF A FLOWER WHICH IS OF A CONTRASTING COLOR TO THE PIPE AND CEMENT. ALL SANITARY SEWER SHALL BE TESTED ACCORDING TO MINNESOTA PLUMBING CODE, PART 712.0.
- STORM SEWER PIPE:
 - RCP AND HDPE PIPE MAY BE INSTALLED WITH APPROVAL OF LOCAL GOVERNING AGENCY.
 - RAIN-REINFORCED CONCRETE PIPE SHALL BE CLASS 5 FOR PIPE DIAMETERS 18" AND SMALLER, CLASS 3 FOR PIPE DIAMETERS 21" AND LARGER UNLESS OTHERWISE NOTED, PER ASTM C76 WITH 4 GAS RYS.
 - HDPE STORM PIPE 4" TO 10-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF AASHTO M252. HDPE STORM PIPE 12" TO 60-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF ASTM F2306. FITTINGS SHALL BE PER ASTM D2321 AND INSTALLED PER ASTM D2321.
 - PVC STORM SEWER PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC PER ASTM D2665 AND INSTALLED PER ASTM D2321.
 - CORRUGATED METAL PIPE (CMP) FOR SIZES 18" TO 120-INCH AND MUST MEET ASTM A799 OR ASTM A799 AND BE INSTALLED PER ASTM A799. CMP MAY NOT BE INSTALLED WITHIN 10 FEET OF A WATERMAIN, WATER SERVICE, OR A BUILDING.
 - ALL STORM SEWER JOINTS AND STRUCTURE CONNECTIONS SHALL BE GAS TIGHT OR WATER TIGHT AS REQUIRED BY MINNESOTA PLUMBING CODE, PART 707.3. STORM SEWER LOCATED WITHIN 10 FEET OF A BUILDING AND/OR WATER LINE SHALL BE TESTED PER MINNESOTA PLUMBING CODE, PART 712.
- ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER MINNESOTA RULES, PART 750.0150.
- POST INDICATOR VALVES SHALL BE CLOW F-5759 (OR EQUIVALENT) MEETING AWWA STANDARD C509 AND CITY STANDARDS. VALVE TO BE MECHANICAL JOINT RESISTANT WEDGE GATE VALVE. POST TO BE ADJUSTABLE FOR 8 FEET WATER MAIN DEPTH. THE ELECTRICAL ALARM SWITCH SHALL BE PART NO. PCV52 (OR EQUIVALENT).
- AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AS-BUILT RECORD OF UTILITY CONSTRUCTION. THE AS-BUILT SHALL INCLUDE LOCATION AND ELEVATION, DIMENSIONS OR CHANGES TO THE PLAN. CONTRACTOR TO VERIFY WITH OWNER OR ENGINEER WHETHER A PLAN WITH POST-CONSTRUCTION ELEVATIONS IS REQUIRED.

UTILITY KEYNOTES

- STORMWATER SYSTEMS AS DESIGNED ARE STORMWATER HALF CHAMBERS DUE TO OVERALL SITE AND UTILITY DESIGN CONSTRAINTS. FINAL DESIGN CONSTRUCTION PLANS AND DETAILS PREPARED BY THE VENDOR WILL BE SUBMITTED TO THE ENGINEER PRIOR TO STARTING WORK. ANY VALUE ENGINEERING OPTION PROPOSED BY THE CONTRACTOR WILL REQUIRE THE ALTERNATE VENDOR TO PREPARE PLANS, DETAILS AND HYDROCAD MODELS TO THE ENGINEER AND THE WATERSHED FOR REVIEW AND APPROVALS. SELECTED VENDOR SHALL SCHEDULE A PRE-CON WITH THE CONTRACTOR, ENGINEER, AND WATERSHED REPRESENTATIVE PRIOR TO START OF CONSTRUCTION. VENDOR TO PROVIDE APPROPRIATE INSPECTIONS AND DOCUMENTATION/PHOTOS THAT THE SYSTEM WAS CONSTRUCTED TO MEET THE APPROVED ENGINEERING DESIGN.



NOT FOR CONSTRUCTION



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: September 12, 2019
To: Board of Managers and Staff
From: Nicole Soderholm, Permit Coordinator
Subject: August Enforcement Action Report

During August 2019:

Number of Violations:	15
Install/Maintain Inlet Protection	2
Install/Maintain Perimeter Control	5
Install/Maintain Construction Entrance	1
Stabilize Exposed Soils	1
Contain/Dispose of Liquid and Solid Waste	1
Remove Discharged Sediment	2
Implement Proper Dewatering	2
Protect/Maintain Permanent BMPs	1

Activities:

Permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration/procedures, pre-application planning meetings, permit BMP maintenance inspections, permit close-out inspections, enforcement

Project Updates:

Permit #18-17 Beebe Meadows, Maplewood

Work is slated to begin soon on the 7-home residential subdivision on the northeast corner of Larpenteur Rd and Beebe Rd. The applicant addressed the outstanding special provisions this month, and staff issued the watershed permit on August 27th. The contractor is responsible for setting up an initial walk-through with District staff once erosion and sediment control practices have been installed.

Permit #19-16 Q3 Contracting, Little Canada

Work continues at the new Q3 building off South Owasso Blvd. While there is no imminent threat for offsite impacts due to the preservation of vegetation on the outer edge of the site, staff have repeatedly requested an extension of perimeter control per the approved erosion control plan. The site was inspected by District staff on August 14th and August 27th. A reminder for perimeter control was sent on September 4th. Staff will continue to follow up on this item and escalate enforcement as needed.

Permit #16-18 Costco of Woodbury (revised)

Work has been wrapped up at the Woodbury Costco for some time. The permit remains open due to BMP inspection/verification issues. City and watershed staff met onsite on August 13th to look at the underground stormwater system because of differing inspection results. It was discovered that the agencies had been under different impressions regarding how the system was supposed to function. The design engineer was called upon to verify the intended design of the underground chamber system is detention. Based on field observations, however, the systems are not holding the volume of water that would be expected if functioning properly. The engineer will be reaching out to Costco to complete a full system inspection per the city's request to address these concerns and develop a final punchlist for the site. District staff will be included in this process and will retain the stormwater escrow until the conditions of the permit are met. Staff are meeting with the Board of Water and Soil Resources and the Army Corps of Engineers to review the wetland mitigation area in late September. Hydrology and vegetation will be assessed at that time to verify that proper maintenance is completed for the remaining 4 growing seasons and that the wetland mitigation area is functioning per Wetland Conservation Act (WCA) standards prior to release of the WCA financial assurance.

Permit #19-18 Ferndale-Ivy Street Improvements, Maplewood

Work continues on the Ferndale-Ivy street reconstruction. The site was inspected on August 6th, August 19th, and September 3rd. Routine items noted include inlet protection maintenance, street sweeping, and erosion observed at one of the storm outlets.

Permit #19-19 Roseville Middle School Addition

The applicant addressed the outstanding special provisions this month, and staff issued the watershed permit on August 28th. The contractor is responsible for setting up an initial walk-through with District staff once erosion and sediment control practices have been installed.

Permits Closed in August 2019:

- 16-01 1880 Old Hudson Rd Development, St. Paul
- 17-21 Maplewood Retail Development

Stewardship Grant Program

Stewardship Grant Application Summary

Project Name: Hoffman

Application Number 19-23 CS

Board Meeting Date: 9/12/2019

Applicant Name: John Hoffman

Residential ☒

Commercial/Government ☐

Project Overview:

This project is located off Dale St N and Mound Ave in the City of Shoreview. The applicant is interested in installing two rain gardens to capture roof and driveway runoff. He is also interested in installing native vegetation in the boulevard area. This road was recently reconstructed by the City of Shoreview. The applicant is choosing to install native vegetation instead of replacing the area with turf grass.

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

BMP type(s):

Native Habitat Restoration(1), Rain Garden(2)

Grant Request:

\$9,000.00

Recommendation:

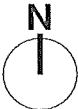
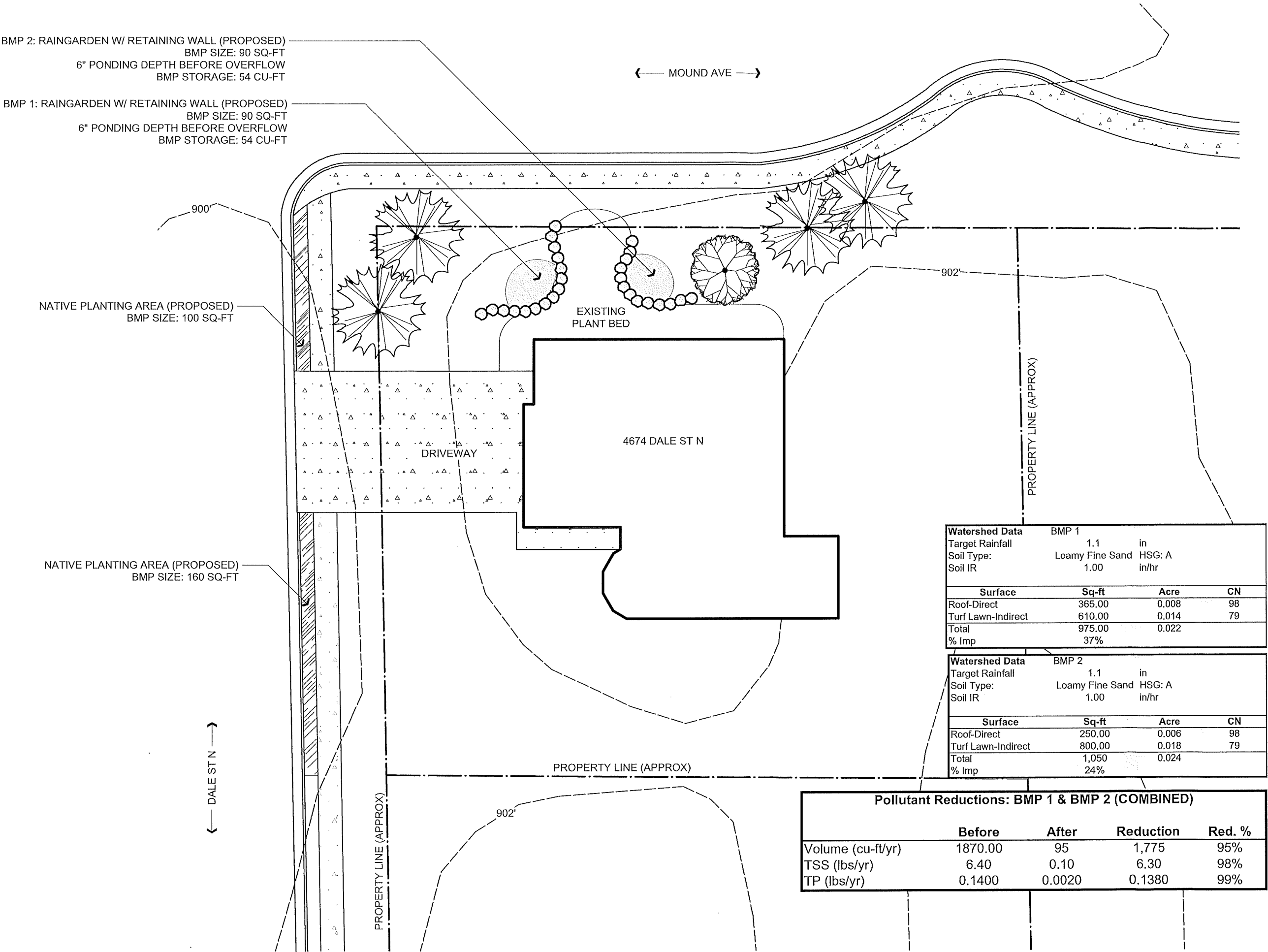
Staff recommends approval of this application.

Subwatershed:

Snail Lake

Location Maps:





Stewardship Grant Program Budget Status Update
September 12, 2019

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	4	\$7,064.65
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	5	\$45,926.25
Master Water Steward Project	100% Cost Share \$15,000 Max	1	\$7,500
Shoreland Restoration	100% Cost Share \$15,000 Max	1	\$12,000

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	4	\$20,400
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$200,000
Priority Area Projects	100% Cost Share \$100,000 Max	3	\$341,000
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art	50% Cost Share	1	\$6,000
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	2	\$15,000
Maintenance	50% Cost Share \$5,000 Max for 5 Years	20	\$15,700
Consultant Fees			\$237,400
Total Allocated			\$907,990.90

2019 Stewardship Grant Program Budget	
Budget	\$1,250,000
Total Funds Allocated	\$907,990.90
Total Available Funds	\$342,009.10

MEMORANDUM

DATE: September 12, 2019
TO: Board of Managers and Staff
FROM: Paige Ahlborg, Watershed Project Manager
SUBJECT: Stewardship Grant Program Additional Fund Approval

Discussion Items:

RWMWD staff work with landscape architects at Ramsey and Washington Conservation Districts as well as with Barr Engineering to design water quality best management practices (BMPs) through our stewardship grant program. During the process, staff determine which BMPs to pursue on each site based on their cost effectiveness, pollutant removal, and volume reduction provided. Design standards and project type are based on the maximum dollar amount for each type of BMP which is set every year by the board of managers. Table 1 below shows the amounts approved for 2019. The last column indicates the maximum allowed dollar amount for each project type. This column references that property owners meeting certain criteria may be eligible for additional funding. The review and approval of these projects has happened similar to our permit program variance requests. Staff reviews the request and then brings the request to the board for decision. This has happened a handful of times over the last several years. Recently, the board has asked for some more information on variance requests.

One item to note is that often times a property has opportunity for multiple BMPs. The owner is able to apply for multiple stewardship grants as long as the BMPs are treating additional runoff and the first application is complete. Often times property owners request to combine multiple project phases into one project to be more cost effective for the applicant and the District.

Staff reviewed applications that were approved for above the maximum amount over the last 5 years. No additional funds were requested in 2015 or 2016. Four projects from 2017-2019 requested and were approved for additional funding. These are listed in Table 2 below. Besides the reasons referenced at the end of the 2019 table, projects going above the maximum amount have been approved for the following reasons.

1. Combining multiple project phases into one project.
2. Treating runoff from a neighboring property.
3. Helping manage surface water from getting into homes or other structures.

Table 1. Proposed 2019 Cost Share Coverage

	Type of Projects	Cost Share %	Maximum \$*
Homeowner Projects	Habitat Restoration & raingarden w/o hard surface drainage	50%	\$15,000
	Raingarden w/ hard surface drainage, pervious pavement	75%	\$15,000
	Shoreland Restoration (below 100 yr flood elevation w/ actively eroding banks)	100%	\$15,000
Large Scale Projects: Commercial, Church, School, Government, Associations, etc.	Habitat Restoration	50%	\$15,000
	Shoreland Restoration	100% below 100 yr flood elev. with actively eroding banks	\$100,000
	Water Quality BMPs	75% in non-priority drainage areas	\$50,000
		100% in priority drainage areas*	\$100,000

*Projects located within RWMWD priority subwatersheds, flood reduction, groundwater recharge, and certain demographic areas may be eligible for additional funding. Contact us with your project location to determine maximum coverage amount.

Table 2. Past Additional Fund Requests

Year	Project	Amount Approved	Reasons for Approval
2017	#17-18 CS Gray	Limit was \$5,000 at this time. Approved for \$10,621.50.	Experiencing groundwater in basement.
2018	#18-26 Kosobayashi	Limit was \$15,000. Approved for \$19,200. (Actual project costs amounted to \$11,557.18)	Priority area. 3 separate project areas but more cost effective to do as one phase.
	#19-16 CS Marquardt	Limit was \$15,000. Approved for \$16,500.	Only option to treat stormwater on his property was a porous driveway.
	#19-19 CS Negosso	Limit \$15,000. Approved for \$17,250.	Priority area. Treating water from neighbor's property. Installing 3 separate BMPs at one time instead of multiple phases.
	Total Additional Approved	\$13,571.50	

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: September 12, 2019

Agenda Item No: 9A

Preparer: Tina Carstens, Administrator

Item Description: Approval of District budget and preliminary levy for fiscal year 2020.

Background:

The district board discussed the preliminary budget table at the August Board meeting. A change in two line items have been made after further review of programming by staff. They are highlighted in purple and indicated as changes in the Program Line Item Breakouts. These changes increase the preliminary levy to a 3.52% increase. I do anticipate this to change though between now and the December final levy approval based on more accurate estimates of carry over funds.

The draft budget has been noticed in the legal newspapers and posted on the District web site. No comments have been received to date. The required public hearing will be held at the September board meeting prior to this action item to receive comments. At the public hearing I will give a short presentation on the proposed 2020 budget and preliminary levy. Any board requested and approved changes can be made at the meeting.

The preliminary levy amount will be used to file the necessary preliminary levy notification forms with Ramsey and Washington County. Changes to the budget can be made until the final budget and levy certification at the December board meeting.

Applicable District Goal and Action Item:

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

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

Staff Recommendation:

Approve the draft budget for purposes of the preliminary levy and approve resolution 19-02.

Financial Implications:

The counties require preliminary levy certification. This step is required for final levy authority in December.

Board Action Requested:

Approve the draft budget for purposes of the preliminary levy and approve resolution 19-02.



RESOLUTION 19-02

RESOLUTION APPROVING THE PRELIMINARY PAYABLE 2020 TAX LEVY

WHEREAS, the Ramsey-Washington Metro Watershed District (District) prepared a budget for fiscal year 2020 to implement the District's programs and projects as defined in the District's Watershed Management Plan; and

WHEREAS, the District distributed the proposed budget and levy for review and comment and conducted a requisite public hearing on September 12, 2019;

NOW, THEREFORE, BE IT RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the following preliminary levy be certified to Ramsey and Washington Counties.

General Revenue Levy	\$6,601,385
<u>Debt Service Levy</u>	<u>\$400,074</u>
Total Levy	\$7,001,459

Adopted by the Board of Managers of the Ramsey-Washington Metro Watershed District this 12th day of September, 2019.

Marj Ebensteiner, President

Attest:

Dr. Pam Skinner, Secretary

Fiscal Year 2020 Budget V3
September 12, 2019 Board Meeting Preliminary Budget and Levy Approval

Budget ID Number	Budget Item	FY 2019 Budget	FY 2020 Budget Fund Source				Total Proposed 2020 Budget	Increase (decrease) from 2019 Budget
			General Fund	Capital Improvements	Carry-over Funds	Grant Funds		
1	Engineering Administration	93,000	93,000				93,000	0
2	Engineering Review	55,000	55,000				55,000	0
3	Permit Application Review	55,000	55,000				55,000	0
4	Permit Inspection and Enforcement	10,000	10,000				10,000	0
5	Project Feasibility Studies*	790,000	515,000			55,000	570,000	(220,000)
6	GIS Maintenance	5,000	5,000				5,000	0
7								
8	Attorney General	40,000	40,000				40,000	0
9	Permit Enforcement	10,000	10,000				10,000	0
10								
11	Managers Meeting Per diems	6,500	8,500				8,500	2,000
12	Managers Expenses	3,500	3,500				3,500	0
13								
14	Auditor/Accounting Auditor/Accounting	55,000	60,000				60,000	5,000
15								
16	Miscellaneous Dues & Publications	11,000	11,000				11,000	0
17	Insurance	35,000	40,000				40,000	5,000
18	Committee & Board Meeting Expenses	3,500	3,500				3,500	0
19	Miscellaneous	5,000	5,000				5,000	0
20								
21	Administrative Salary & Benefits	1,385,000	1,450,000				1,450,000	65,000
22	Employee Expenses	10,000	10,000				10,000	0
23	Janitorial/Trash Services/Snow Plowing	17,000	15,000				15,000	(2,000)
24	Building Maintenance	300,000	200,000				200,000	(100,000)
25	Utilities (gas,electric, water, sewer, maintenance)	20,000	20,000				20,000	0
26	Office Supplies	5,000	5,000				5,000	0
27	Copying/Printing	8,000	8,000				8,000	0
28	Postage/Delivery	10,000	5,000				5,000	(5,000)
29	Office Furniture & Computer Equipment	40,000	40,000				40,000	0
30	Office Equipment Maintenance	3,000	3,000				3,000	0
31	Training/Education	25,000	25,000				25,000	0
32	Telephone	8,000	8,000				8,000	0
33	District Vehicles/Maintenance	43,000	43,000				43,000	0
34	GIS System Maintenance & Equip.	10,000	10,000				10,000	0
35	Data Base Improvements	5,000	5,000				5,000	0
36	IT Services/Internet/Website/Software Licenses	45,000	55,000				55,000	10,000
37	Outside Program Support*	57,000	57,000				57,000	0
38	Outside Consulting Services	40,000	40,000				40,000	0
39								
40	Program Lake Studies/WRPPs/TMDL Reports*	68,000	173,000				173,000	105,000
41	Activities Natural Resources Program*	115,000	140,000				140,000	25,000
42	Water Monitoring-Lab Costs & Equip.*	300,000	185,000				185,000	(115,000)
43	Lake Macrophyte Monitoring	10,000	10,000				10,000	0
44	Research Projects *	115,000	95,000				95,000	(20,000)
45	Project Operations	160,000	160,000				160,000	0
46	Education Program*	60,000	60,000				60,000	0
47	Communications and Marketing*	25,000	25,000				25,000	0
48	Events*	50,000	50,000				50,000	0
49	NPDES Phase II	10,000	10,000				10,000	0
50	Health & Safety Program/Staff In-House Training	3,000	3,000				3,000	0
51								
52	Capital Improvements Maplewood Mall SRF Loan Debt Service	91,950		92,611			92,611	661
53	Summary Beltline and Battle Creek Tunnel Repair Debt Service	307,163		307,463			307,463	300
54	District Office Building Bond Payment	194,885		194,885			194,885	0
55	Targeted Retrofit Projects*	978,760		1,012,000			1,012,000	33,240
56	BMP Stewardship Grant Fund	1,250,000		800,000	200,000		1,000,000	(250,000)
57	Project Repair & Maintenance*	1,120,000		615,000	500,000		1,115,000	(5,000)
58	Wakefield Park Project	1,100,000		0	0		0	(1,100,000)
59	Markham Pond Dredging and Aeration	65,000		0	0		0	(65,000)
60	Willow Pond CMAAC	300,000		0	0		0	(300,000)
61	Volume Reduction Opportunity Fund	1,500,000		100,000	1,500,000		1,600,000	100,000
62	Flood Risk Reduction Fund*	2,500,000		1,500,000	2,500,000		4,000,000	1,500,000
Totals		13,532,258	3,824,500	4,621,959	4,700,000	55,000	13,201,459	(330,799)

	Budget Total	Budget Total By Fund		Proposed Final Levy
		General Fund	CIB	
2020 Budget Total and totals by fund	13,201,459	3,879,500	9,321,959	7,001,459
2019 Budget Total and totals by fund	13,532,258	4,124,500	9,407,758	6,763,498
2020 Budget Increase or (Decrease) from 2018 Budget	(330,799)	(245,000)	(85,799)	237,961
2020 Budget % change from 2018 Budget	-2.44%	-5.94%	-0.91%	3.52%

2020 Budget Program Line Item Breakouts

Project Feasibility Studies (Line 5)	
Emergency Response Plans	\$45,000
FEMA Flood Mapping Update Assistance (grant funded)	\$55,000
Hillcrest Golf Course & Gold Line BRT Planning	\$45,000
Owasso Basin Flood Risk Management	\$125,000
Willow Creek Flood Risk Management	\$50,000
Ames Lake Area Flood Risk Management	\$50,000
Battle Creek PFAS	\$25,000
694/494/94 Water Quality Feasibility Study	\$30,000
*Battle Creek Lower Ravine Restoration (new item)	\$25,000
Subwatershed Assessment for At-Risk Creeks (Fish and Gervais)	\$40,000
Contingency	\$25,000
Total =	\$515,000

Outside Program Support (Line 37)	
Watershed Partners	\$10,000
Blue Thumb	\$3,000
East Metro Education	\$13,000
Cooperative Weed Management Program	\$10,000
GIS Users Group	\$1,000
Contingency	\$20,000
Total =	\$57,000

Lake Studies Etc. (Line 40)	
Grant Applications	\$20,000
Watershed Management Plan Updates	\$30,000
Tanners Flood Response Tool Model Update	\$3,000
*Internal Load Management (increased by \$5,000)	\$50,000
*Wakefield Lake Internal Load Modeling (new item)	\$30,000
Subwatershed Feasibility Studies Prioritization	\$15,000
Contingency	\$25,000
Total =	\$173,000

NR Program (Line 41)	
Ongoing Site Maintenance	\$25,000
Owasso Carp Management	\$40,000
Phalen Chain Carp Management	\$10,000
Vadnais-Snail Lake Park Restoration	\$20,000
Electric Carp Barrier	\$40,000
Contingency	\$5,000
Total =	\$140,000

Water Monitoring (Line 42)	
WQ Equipment Replacement and Repair	\$40,000
Lab Costs	\$90,000

Engineering Stats Assistance	\$10,000
Special Project Monitoring: Maplewood Mall, Battle Creek	\$30,000
New Lake Level Monitoring	\$15,000
Total =	\$185,000

Research (Line 44)	
Minnesota Stormwater Research Council	\$25,000
Kohlman Test Weirs	\$15,000
Iron Aggregate Pond Application	\$20,000
Internal Research/Contingency	\$35,000
Total =	\$95,000

Education/Events/Communications (Lines 46-48)	
Master Water Stewards	\$10,000
Adopt a Drain Program	\$5,000
Rain Barrel Program	\$5,000
Work in Schools	\$25,000
Education Contingency	\$15,000
Communications and Marketing	\$25,000
WaterFest	\$30,000
Watershed Excellence Awards	\$6,000
Events Contingency	\$10,000
Total =	\$131,000

Targeted Retrofits (Line 55)	
Boys and Girls Club	\$150,000
St. Rose of Lima	\$312,000
Wetland Restoration Projects	\$300,000
Motel 6 and Catering Center	\$200,000
Contingency	\$50,000
Total =	\$1,012,000

Project Repair and Maintenance (Line 57)	
2019 Project Repair and Maintenance Contract	\$650,000
Beltline 5-year Inspection	\$90,000
Routine Inspections and Unplanned Maintenance ID	\$125,000
BMP Maintenance Program	\$150,000
Contingency	\$100,000
Total =	\$1,115,000

Flood Risk Reduction Fund (Line 62)	
Lowering West Vadnais Lake Outlet	\$130,000
Keller Channel Weir and Phalen Outlet Modifications	\$1,200,000
West Vadnais Lake Emergency Overflow - Twin Lake By-Pass	\$120,000
West Vadnais Lake Off-Season Drawdown System	\$1,750,000
Contingency	\$100,000
Total =	\$3,300,000

Request for Board Action

Board Meeting Date: September 12, 2019

Agenda Item No.: 9B

Preparer: Tina Carstens, Administrator

Item Description: Change order No. 2 for the 2019 CIP Maintenance & Repair Project

Background:

Attached is change order number 2 for the 2019 CIP Maintenance and Repair Project. This change order is for four different changes that occurred in the field during the project completion. See the attached change order request for more information.

The total change order is for \$56,000 and also includes an extension in time until October 31, 2019.

Applicable District Goal and Action Item:

Goal: Manage risk of flooding: The District will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and economic well-being.

Action Items: Maintain District flood storage facilities and storm sewer systems.

Staff Recommendation:

Approve Change Order No. 2.

Financial Implications:

This request increases the contract price by \$56,000.00. There is sufficient funds in the project budget for this increase.

Board Action Requested:

Approve Change Order No. 2.

Change Order No. 2
Ramsey-Washington Metro Watershed District
Capital Improvement Project Maintenance/Repair 2019

DATE OF ISSUANCE: September 4, 2019

Owner: Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117
Attn: Marj Ebensteiner

Contractor: Fitzgerald Excavating & Trucking, Inc.
21432 350th St.
Goodhue, MN 55027
Attn: Jason Fitzgerald

Engineer: Barr Engineering Company
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Attn: Brad Lindaman

C.O.2.A Furnish, Install and Remove Sandbags for the Gramsie Rd Pedestrian Tunnel Area

Description of Change:

At the request of the owner, the contractor provided sand bags and a sandbagging crew to close off the south end of the existing box culvert tunnel entrance. The closure of the tunnel was an attempt to minimize flooding in areas north of Gramsie Road. Once the tunnel sand bagging was unsuccessful, the contractor was directed to relocate the sand bagging efforts to a location south east of the tunnel.

The contractor, in good faith, executed the work, all complete, and as directed by the owner's representative.

Measurement and Payment:

The contractor will be paid a lump sum per attached detail.

Change in Contract Time:

None

Total Impact on Contract Price:

\$12,908.00

C.O.2.B Additional 12-inch Stop Log on Stop Log Structure

Description of Change:

The owner requested an additional 12-inch stop log be added to the stop log structure installed in the Gramsie Road tunnel. This additional height allows for complete closure of the opening and additional flood protection for areas north of the road.

The contractor, in good faith, executed the work, all complete, and as directed by the Owner's representative.

Measurement and Payment:

The contractor will be paid a lump sum per attached detail.

Change in Contract Time:

None

Total Impact on Contract Price:

\$3,800.00

C.O.2.C Fish Creek Tributary Culvert Replacement

Description of Change:

The owner requested the contractor replace a decrepit culvert in the Fish Creek Tributary. The contractor provided a quote and the quote was orally accepted by the owner. The contractor, in good faith, executed the work, all complete, and as directed by the Owner's representative.

Measurement and Payment:

The contractor will be paid a lump sum per attached detail.

Change in Contract Time:

None

Total Impact on Contract Price:

\$7,000.00

C.O.2.D Snail Lake Park Repairs

Description of Change:

The Snail Lake Park work consists of dewatering, earthwork, importing soil, grading, and replacement of damaged bituminous trail and all incidentals, all complete as directed by the owner's representative.

Measurement and Payment:

The contractor will be paid a lump sum per attached detail.


Change in Contract Time:

Final Completion Date is revised to be October 31, 2019.

Total Impact on Contract Price:

\$56,000.00

This Change Order No. 2 is:

Submitted By: (ENGINEER)	 _____ Bradley J. Lindaman, Project Engineer Barr Engineering Company	Date: <u>September 4, 2019</u>
Authorized By: (OWNER)	_____ Marj Ebensteiner, President Ramsey-Washington Metro Watershed District	Date: _____
Approved By: (CONTRACTOR)	_____ Jason Fitzgerald, President Fitzgerald Excavating & Trucking, Inc.	Date: _____

Greg Nelson

C.O.2.C

PA 4

From: Greg Nelson
Sent: Thursday, May 16, 2019 8:46 AM
To: Jason Fitzgerald - Fitzgerald Excavating & Trucking, Inc. (fitzexcavating@gmail.com); David Vlasin
Cc: Greg Nelson
Subject: FW: RFP for Fish Creek Trib. Culvert Repair
Attachments: ADS HP STORM 12"- 60" PIPE SPECIFICATION_01_19.pdf

Jason,

→ approve by text.

Please reply that you agree to the scope of work below at a lump sum, not to exceed cost of \$7,000. Once I receive that and Dave agrees, you can proceed with the work. A Change Order will be created to cover this item on the next pay app if the work is completed by next Tuesday night, May 21, 2019.

Thank you.

From: Greg Nelson <GNelson@barr.com>
Sent: Thursday, May 2, 2019 11:42 AM
To: Jason Fitzgerald - Fitzgerald Excavating & Trucking, Inc. (fitzexcavating@gmail.com) <fitzexcavating@gmail.com>
Cc: David Vlasin <david.vlasin@rwmwd.org>; Greg Nelson <GNelson@barr.com>
Subject: RFP for Fish Creek Trib. Culvert Repair

Hi Jason,

Please provide me with your estimated lump sum cost to perform this work.

To include but not limited to the following scope of work to replace the decrepit 48" CMP pipe!

1. Control of water to work in dry trench conditions.
2. Salvage all topsoil.
3. Remove/dispose of existing 48" CMP pipe off-site.
4. Install 42" ADS HP Storm for approx.. length of 25-feet. (Manufacturers specification attached)
 - a. Includes pipe bedding material and installation for typical non-rigid pipe trench detail.
 - b. Geotextile wrap all joints.
 - c. Excavation and backfill compaction performed.
 - d. Connect to existing 72" manhole and shape/grout pipe transition through manhole invert.
5. Install new metal flared end apron for proper pipe size.
 - a. Includes fasteners
 - b. Geotextile filter fabric under apron for riprap.
 - c. Salvage riprap
6. Restore all disturbed areas with provided seed and erosion control blanket (project bid price preferred).
7. Miscellaneous incidentals to complete work.

Fitzgerald Excavating & Trucking Inc.

21432 350th Street

Goodhue, MN 55027

Office: 651-923-4060 Fax: 651-923-4080

C.O.2.D

8/14/19

Snail Lake Park Repairs

Includes:

Various berm building and excavation as was shown

Pump/dewater area as necessary to facilitate work

Import and place approx. 100-200 CY of material

Removal and replacement of 10,720 SF of bituminous trail

Total:

\$56,000

PA 4

Administrator's Report

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: September Administrator's Report
DATE: September 12, 2019

A. Meetings Attended

Monday, August 5	11:00 AM	MN Invasive Species Center Tour
Wednesday, August 7	6:30 PM	Board Meeting
Monday, August 12	9:00 AM	Hillcrest Golf Course Meeting
	10:00 AM	Willow Pond Resident Meeting
Monday, August 19	11:00 AM	Administrator Meeting
Thursday, August 22	1:00 PM	Meet with Little Canada City Staff
Monday, August 26	6:00 PM	Twin Lake Resident Meeting
Thursday, August 29	1:00 PM	Conference Call re: Met Council Tour
	2:00 PM	North Star Estates Meeting
Tuesday, September 3	1:00 PM	Project Coordination Meeting w/Barr
Thursday, September 5	1:00 PM	MAWD Annual Meeting Planning
	3:30 PM	Met Council Regional Parks Tour

B. Upcoming Meetings and Dates

Board Brainstorming Session	Monday, September 16, 2019
October Board Meeting	Wednesday, October 2, 2019
November Board Meeting	Wednesday, November 6, 2019
Watershed Excellence Awards	Thursday, November 14, 2019
MAWD Annual Meeting	December 4 – 7, 2019
December Board Meeting	Wednesday, December 11, 2019

C. Board Brainstorming Meeting – Monday, September 16

The board requested brainstorming meeting was set for Monday, September 16th. You can use this agenda item time to discuss the format for the meeting. I will be at the meeting, as will Brad Lindaman from Barr.

D. Manager Per Diems

Effective July 1, 2019, the Minnesota legislature approved an increase in the allowable rate of per diem for watershed district managers from \$75 to \$125 per Minnesota Statutes section 103D.315. Each district may choose to have their own per diem policy as long as it doesn't exceed \$125 per meeting. The statute reads:

Subd. 8. Compensation. The compensation of managers for meetings and for performance of other necessary duties may not exceed ~~\$75~~ \$125 a day. Managers are entitled to reimbursement for traveling and other necessary expenses incurred in the performance of official duties.

Some watershed districts adopt the per diem based on the maximum allowed by statute and others set a lower rate that they plan to take as compensation. Some watersheds set different rates of per diem based on the length of the meeting. There are watersheds that also allow managers to be compensated at some rate for preparing for meetings.

Currently, the RWMWD managers are allowed \$75 for regular or special district board meetings. Other meetings attended as approved by the board are rated at \$15 an hour up to \$50 a day. Other expenses like mileage are compensated at the state rate for mileage.

I am working on developing a district governance manual where items like the policy on per diems can be housed. A couple of metro watersheds have a similar document. Other items included in a manual like this include: records management and retention, by laws, schedule of regular activities, data practices information, expenditures policy, fund balance policy, internal controls and procedures for financial management. Many of these documents already exist but this would put them together and include some new items as well.

I would like the board to discuss what they would like to set their per diem rate at and I will then include an action item in the next board packet. The approved policy can then be put into the draft governance manual.

Project and Program Status Reports

Project Work Plan

Original Date: September 5, 2019

Updated: September 5, 2019

Project: Twin Lake Outlet Feasibility Study

Project team

District staff:	Project manager:	Tina Carstens
Barr staff:	Principal in charge:	Brad Lindaman, PE
	Project manager:	Brandon Barnes, PE
	Project team:	Erin Anderson Wenz

Scope of work

The purpose of this project is to evaluate the feasibility of providing an outlet for Twin Lake. The feasibility study will evaluate outlet configurations and general operational plans for a gated or pumped outlet to reduce flood-risk to the one residential home that is below the overflow to the MnDOT system.

There is one home on Twin Lake that has a low entry elevation below the overflow to the MnDOT I-694 stormwater system. Increased precipitation over the last several years has resulted in gradually increasing water levels in Twin Lake. This spring there was a sharp increase in the water level as a result of overflow from West Vadnais Lake. As a result, the city placed sand bags in an emergency response action to protect the low structure from flooding. Additionally, the District supported the City's temporary connection to the MnDOT system to temporarily pump water from Twin Lake. In response to recent continued high water levels, the city and area residents requested the District evaluate the feasibility of constructing an outlet from Twin Lake.

Historically, the District has carefully considered modifications to landlocked waterbodies, since changes would convey more water from upstream areas to downstream areas that are already at risk of flooding habitable structures. The purpose of this study is to evaluate outlet alternatives that would protect the low home on Twin Lake as well as mitigate the increase in downstream water levels. The feasibility study will include the following tasks:

Task 1. Compilation of existing information & documentation of design criteria

This task will include reviewing prior Twin Lake studies, downstream floodplain studies, District rules, and other applicable regulations, including work already completed to evaluate this part of the RWMWD. Findings will be summarized to define the design criteria for evaluating alternatives for providing an outlet from Twin Lake.

Task 2. Hydraulic Analysis.

The District stormwater model will be used to complete a hydraulic evaluation of potential outlets from Twin Lake. The hydraulic model will be used to quantify the change in water levels in Twin Lake and downstream including Owasso Basin, Gervais Creek and the Lake Phalen Chain of Lakes. This task will include evaluation of alternatives to convey water from Twin Lake to Waldo Pond; outlet configurations; conceptual operational guidelines for gated or pumped outlets including management levels in Twin Lake and periods when discharge to Waldo Pond could be allowed.

Task 3. Development of draft conceptual design drawings and design memo

This task will include development of draft conceptual designs for potential outlets from Twin Lake (plan view and cross-sections); planning level cost estimates; and estimated floodplain impacts based on the draft conceptual design and operating plan for gated or pumped outlets. The design memo will summarize the designs, the hydraulic considerations, planning level costs and the estimated floodplain impacts. The memo will also identify expected permits that may be necessary for the construction of the outlet.

Task 4. Permitting Agency Coordination.

A new outlet from Twin Lake must be approved by multiple agencies. This task includes one coordination meeting with MnDOT, MnDNR, and Cities of Little Canada and Vadnais Heights regarding a potential outlet and operational design guidelines. Throughout the project, continuous, less formal coordination with these entities will be maintained as well.

Task 5. Finalize the conceptual design drawings and design memo

The memo and conceptual designs will be finalized after incorporating comments and feedback from District, City of Little Canada, City of Vadnais Heights, MnDOT, and MnDNR staff.

Budget, Schedule, and Milestone Tracking

The approved budget is \$50,000.

Work Task	Description	Estimated Amount	Anticipated Completion	Actual Completion
Task 1	Compilation of existing information & documentation of design criteria	\$5,000	October 2019	
Task 2	Hydraulic Analysis	\$10,000	November 2019	
Task 3	Development of draft conceptual design drawings and design memo	\$15,000	November 2019	
Task 4	Permitting Agency Coordination	\$7,000	November 2019	
Task 5	December Board meeting presentation		December 4, 2019	
Task 6	Documentation	\$13,000	December 2019	

Memorandum

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – September 2019
Date: September 6, 2019

Twin Lake emergency response management 2019: (Barr project managers: Brad Lindaman and Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to provide engineering assistance and technical guidance to help cities in and around Twin Lake and West Vadnais Lake determine emergency flood response options for implementation.

This month, the City of Little Canada continued pumping out of Twin Lake into the Minnesota Department of Transportation (MnDOT) right-of-way. After relocating the pump intake north of the railroad tracks, the city switched to a smaller pump. Water levels have slowly continued to recede. The city plans to continue pumping until the water level in Twin Lake reaches 871.0.

In addition, Barr and RWMWD staff have prepared permit applications to pump West Vadnais Lake overflows from west of Five Star Estates, should the berm overtop again, to bypass Twin Lake. Preliminary review comments indicate that MnDOT is open to the proposed bypass and temporary connection to Stymie Pond. However, MnDOT indicated that a drainage permit would not be issued until a temporary connection is required. Over the past month, water levels in West Vadnais Lake have been below elevation 884.0, and the bypass is not required at this time. We are preparing, however, should the water level in West Vadnais Lake increase and overflow toward Five Star Estates occur again.

On August 26, District staff and Barr met with Twin Lake residents to discuss their concerns and potential future management options for the lake, including a feasibility study that would assess outlet options for the lake. A scope summary of this project is included in this month's board packet. Several board members were also in attendance at this meeting. It was a good meeting that laid out some action items for the District staff including connecting the landowners with the DNR regarding fish population and management as well as a timeline for the OHW determination. We also discussed the desire for a plant survey on the lake.

Project feasibility studies

Owasso County Park stormwater master plan and detailed design: phases I and II (Barr project manager: Matt Metzger; RWMWD project manager: Paige Ahlborg)

The purpose of this study is to assist City of Shoreview Public Works and Ramsey County Parks with creating a holistic “living streets” retrofit design for North Owasso Road and best management practice (BMP) design for new parking lots in Owasso County Park.

The City of Shoreview held the bid opening on August 14. Utility construction is scheduled to begin this year, with the majority of roadway and stormwater management feature construction occurring in 2020. Barr and the RWMWD will be engaged in the construction portion of the project to verify that stormwater design implementation meets RWMWD standards and expectations.

System-wide evaluation of flood control options/Beltline resiliency study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

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

Last month, Barr presented preliminary results for the remaining phases: Lake Phalen subwatershed (phase 3), Beaver Lake subwatershed (phase 4), and Beltline subwatershed (phase 5). Hydraulic evaluation of system modifications and updates to the RWMWD stormwater models is complete. This month, we started developing planning-level cost estimates for the system modifications mentioned in the study, and began preparing related project documentation. A draft of the documentation will be provided for RWMWD staff to review later this fall.

Feasibility studies for the Owasso Basin bypass concept, the Willow Creek flood reduction concept, and the Ames Lake area concept are included in the draft 2020 engineering budget.

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

The purpose of this project is to apply Minnesota Department of Natural Resources (DNR) grant funding to use the RWMWD’s updated stormwater model to develop information required to update the FEMA floodplain maps.

This month, Barr updated the model documentation based on comments provided by the DNR on July 26. The revised documentation, hydrologic and hydraulic models, and supporting GIS files were resubmitted to the DNR on August 29. The resubmittal included updates to supporting documentation to address DNR comments, minor updates to the models, and plans or survey information for

inundation areas shown on the FEMA floodplain maps. In addition, we submitted preliminary floodway models for Kohlman Creek and the Lake Wabasso outlet. We anticipate receiving comments from the DNR on this submittal in September and will respond to comments and submit preliminary floodplain maps for DNR review. The process for providing the DNR information to update the floodplain maps will continue through spring 2020.

Snail, Grass, and West Vadnais lakes outlet permitting with the DNR (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to prepare and facilitate DNR permitting for the proposed lowering of the West Vadnais Lake outlet.

This period, in partnership with the Vadnais Lake Area Watershed Management Organization (VLAWMO), Barr completed an environmental assessment worksheet that evaluates the impact of lowering the 15-inch outlet from West Vadnais Lake by 0.8 feet to provide additional live storage.

VLAWMO, the responsible government unit, has published notice of document availability in the *Environmental Quality Board Monitor* and has made the document publicly accessible via a website.

The responsible government unit must make the environmental impact statement need decision within 30 days of the end of the public comment period and must distribute the notice of decision within five days of the decision. The decision notice must be submitted to the *Environmental Quality Board Monitor*.

Operation of the lowered outlet is described in the environmental assessment worksheet as follows:

With this project, the West Vadnais Lake outlet will have an invert elevation of 881.0, approximately 0.8 feet lower than the lake's existing outlet. Flow through the new outlet would be controlled by a valve to limit flow rates up to 4 cubic feet per second (pipe full flow) as the lake eventually and naturally recedes and lake outflows decrease. This flow rate matches the original DNR permit for the existing 15-inch outlet pipe, as well as the associated joint powers agreement between the Grass Lake Watershed Management Organization, Board of Water Commissioners of the City of Saint Paul, Ramsey County, and the RWMWD. When the lake level drops below 881.8, the outflow rate would be a function of outlet pipe capacity, and would be negotiated with the DNR, taking downstream capacity into account. It is anticipated that it could take several months, possibly years, for the lake to recede to an elevation of 881.0 with this passive approach.

Once the lake drops to an elevation of 881.0 (or below, via seepage to groundwater and evaporation), the lake would bounce and discharge as it did before, though at an elevation 0.8 feet lower than before the project. At any time, if downstream conditions are considered at an increased risk of flooding, the outlet valve could be closed to restrict or stop flow. This is consistent with the original agreement for the operation of the original 15-inch outlet pipe.

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

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

The RWMWD's model was used to simulate rainfall events with different recurrence intervals in order to update the FEMA floodplain maps. The models were used to delineate the floodplain throughout the RWMWD for the one-, two-, 10-, 25-, 50-, 100-, and 500-year events. The inundation areas were then processed to develop figures illustrating the annual flood risk, flood risk over a 30-year period (risk of flooding over the course of a typical mortgage), and the 90-percent confidence limit for the 100-year floodplain. Draft figures were submitted to the RWMWD for review. We anticipate finalizing the maps later this fall. These maps can be used in community outreach activities with the cities and other entities within the RWMWD.

Wetland restoration site search (Barr project manager: Karen Wold; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to conduct a desktop review to identify potential wetland restoration sites throughout the RWMWD. This project was initiated because the Minnesota Wetland Conservation Act rules and statute are changing their focus to allow wetland replacement in areas outside of the RWMWD, there are no wetland banks within the RWMWD, and the RWMWD has a "no net loss" policy for wetlands within its boundaries.

This period, Barr completed the initial evaluation of potential wetland restoration areas and met on September 3 to discuss findings. Our desktop analysis looked for sites that:

- are undeveloped (open space or farmed)
- have hydric soil
- the National Wetland Inventory (NWI) describes as having been ditched, drained, or partially drained
- are hydric soil areas that are not identified as wetland in the Minnesota Routine Assessment Method for Evaluating Wetland Function or the NWI
- are hydric soil areas adjacent to existing wetlands
- are Restorable Wetland Inventory areas identified by the Natural Resources Research Institute

Using these guidelines, Barr found 143 potential wetland restoration sites. Most sites are quite small, with 43 less than one acre and only six sites larger than 20 acres. The next step is to develop a prioritization methodology to help RWMWD staff and the board decide which areas to pursue (and why). Some examples of typical prioritization considerations in wetland restoration projects are:

- potential credits for wetland bank sites
- potential for upland buffer areas
- ease of restoration
- land ownership
- restoration (increasing hydrology) that does not pose additional flood risk to neighbors or existing infrastructure

The following additional prioritization considerations are recommended for this project:

- willing partnerships
- habitat restoration and opportunities for increased habitat connectivity corridors
- flood storage potential
- water quality benefits
- projected land use (where future changes to land use might make a restoration project more viable)
- connectivity with or between important natural resources
- proximity to other protected lands, parks, trails, natural resources and other special features (such as high biodiversity significance areas, resource-sensitive areas, and the Mississippi River)
- proximity to schools and churches or other institutions where an educational component may be valuable
- equity areas

Monitoring water quality/project monitoring

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

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

The electrical subcontractor, Kilmer Electric, has completed work at the Lake Owasso site and is working with Xcel Energy on the Lake Phalen site. Peterson Co. is now installing the shelters and cement pad at the Lake Owasso location. Barr continues to set up, program, and bench test the equipment for the Phalen, Wabasso, and Owasso stations in preparation for installation after the subcontractor work is complete.

We are still waiting for approval for the locations on Ramsey County Parks property at Grass and Snail lakes. We anticipate that these stations and their locations will be approved for installation; however, approvals have taken longer than expected. These monitoring stations will be used in conjunction with the emergency response plans to help guide cities in plan implementation to protect homes during floods.

Maplewood Mall monitoring (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to assess functionality of the Maplewood Mall stormwater retrofit project as it enters its fifth year of total completion. Features that will be inspected include all stormwater

infrastructure, plantings, and tree growth. The findings, including site improvement and maintenance recommendations, will be summarized and presented to the board.

Planting of the replacement trees at Maplewood Mall is expected to begin on or shortly after September 5. The planting contractor has acquired the trees and has reviewed the planting specifications. Barr will oversee removal and installation of the first few trees in the tree trenches, to be certain that damage to the soil profile does not occur.

Spent-lime pond application research project (Barr project manager: Greg Wilson; RWMWD project manager: Eric Korte)

This project is a partnership between Barr (funded through the Minnesota Stormwater Research Council [MSRC]), RWMWD, cities of Maplewood and White Bear Lake, St. Paul Regional Water Services, and VLAWMO. The project will consist of a pond application of spent lime to control internal phosphorus loading in Wakefield Pond, the small stormwater pond immediately south of Wakefield Lake and north of Larpenateur Avenue.

Previously, Barr completed laboratory dose testing with the spent-lime slurry samples previously collected from St. Paul Regional Water Services and the City of White Bear Lake. Lab testing results were successfully used to determine a dose of spent lime that is expected to control the internal phosphorus load in each pond. The Minnesota Pollution Control Agency has permitted the pond treatment (on a one-time experimental basis), which is expected later this year. Barr attended and provided a project update at the Minnesota Stormwater Research Council's annual meeting. To accommodate a schedule that includes a summer effectiveness-monitoring period, Barr was granted an extension to the overall project schedule. As a result, we are currently preparing an updated work plan that will extend the schedule through October 2020, and will be submitted for approval by Minnesota Stormwater Research Council in September.

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

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

In August 2019, the project team—including members from the RWMWD, Barr, City of Shoreview, and SAFL—met at Shoreview Commons Pond to discuss alternatives for applying iron aggregate to the pond. SAFL and city staff proposed drawing down the pond levels via pumping to enable proper ice cover so as to drive equipment on the pond for spreading iron filings this coming winter. However, the drawdown was not recommended, as water would be pumped to Snail Lake, which is experiencing high lake levels already. Another proposed alternative was to divert inflows to the pond and allow levels to draw down

naturally. However, the city deemed this option infeasible; it would require pumping water to Martha Lake in the Rice Creek Watershed District or using water for irrigation at the Shoreview Community Center, for which there is not enough demand entering the fall season, and the irrigation water would need to be treated. Therefore, the city will monitor ice cover during the winter without water level drawdown to determine safe working conditions for spreading iron. SAFL will work with the Minnesota Pollution Control Agency to obtain permission for applying iron filings to the pond.

Capital improvements

Wakefield Park/Frost Avenue stormwater project (Barr project managers: Michelle Kimble; 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.

Construction is underway, and weekly construction meetings are taking place. Barr and the RWMWD have attended several of the meetings. The first phase of the road reconstruction project is complete. Veit is beginning the second half of the project and has started excavating the east basin. There appears to be good sand at basin subgrade elevation on the south end of the basin. The area where the west basin will be is being used for project staging. It is likely that the basins will not be fully excavated until mid- or late September. The RWMWD portion of the construction cost is approximately \$550,000. Construction is planned to be complete by November 1, 2019.

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

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

Construction is underway at Redeemer Lutheran Church in White Bear Lake. These projects now include two (instead of three) rain gardens, a shoreline buffer installation, and an erosion control repair at the school's play yard. Only two rain gardens will be constructed at the church, as there were significant underground utility issues that did not show up on the survey.

Preconstruction activities have started at Cornerstone Montessori School in St. Paul. Rain garden construction and shoreline buffer installation will begin in the coming weeks. Work on both projects is expected to be completed before winter.

Targets and Motel 6 targeted retrofit projects (Barr project manager: Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits at two Target retail stores and a Motel 6.

The project began this period with a request for proposal to solicit bids for professional land surveying services from three local firms. Once bids are received, a survey firm will be selected. The survey is expected to be complete by mid-October and will collect the required information for final design at the three sites. Conceptual design work at the two Target retail store sites will take place concurrently with the survey work, since site plans are available.

Willow Pond Continuous monitoring and adaptive control (CMAC) spent lime filter (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of a spent lime filter that takes intermittent flow from Willow Pond in Roseville through the use of CMAC technology. The completed project will remove dissolved and particulate phosphorus to benefit Bennett Lake.

Construction is substantially complete. Pressure transducers were exchanged, and a backflow preventer was removed from the site. Barr installed the instrumentation in June. In July, the instrumentation underwent troubleshooting to test datalogger programming and actuator wiring. Possible issues with the actuator wiring were found. The contractor was contacted, and a joint meeting with the contractor, RWMWD, and Barr was held onsite on August 22 to test the electrical systems. The actuator wiring was fixed that day, and the valve could be opened using the datalogger programming. On August 28, Barr and the RWMWD met to fill the spent lime basin with water from Willow Pond and assess how well the spent lime material was infiltrating. The basin drained well, drawing down in less than 40 minutes starting with approximately 0.9 feet of standing water at the surface. Additional troubleshooting, to be completed this fall, is needed for the datalogger code to allow the system to run automatically. In the meantime, Barr will meet with the RWMWD at the site to test the spent lime system for initial phosphorus removal effectiveness by taking grab samples from the inlet and outlet. This is anticipated to occur at the beginning of September.

The valve manhole was previously dewatered in July, as a significant amount of water had accumulated in the manhole over the past months. On August 22, the RWMWD installed a plug on the 4-inch monitoring opening. On August 28, Barr tested effectiveness of the plug, which was found to still allow water into the valve manhole. The grate was also found to allow precipitation to enter the valve manhole at certain locations since the grate is not watertight. Barr will meet in September to discuss options to keep water from ponding in the manhole. The project will be closed out after a plant establishment inspection in late September or early October.

We are also pursuing installation of a cedar split-rail fence to protect filtration from foot and bike traffic. The City of Roseville approved the proposed design. Fence installation will likely be completed outside of this project's scope by Minnesota Native Landscapes as part of the maintenance contract.

Cottage Place wetland restoration (Barr project manager: Fred Rozumalski; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to evaluate options for restoring the wetland south of the St. Odelia Church property and west of the Cottage Place cul-de-sac in Shoreview. A restored wetland could be used to offset wetland loss in other parts of the RWMWD.

Since environmental investigation of the site did not reveal any significant contamination concerns other than the need for construction debris clearing, Barr is in the process of developing a conceptual wetland restoration plan for the park. The plan includes grading to expand the existing wetland, removal of the concrete and bituminous debris on the site, design of trails and boardwalks, and native plant community restoration. The concept will be presented to the RWMWD in early September for feedback and direction.

Aldrich Arena stormwater retrofit (Barr project manager: Matt Metzger; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to incorporate green-infrastructure stormwater management into the Aldrich Arena campus renovations. The parking lot will be full-depth reclaimed by Ramsey County, which itself would not trigger the need for a RWMWD permit. The partnership between the RWMWD and Ramsey County will achieve treatment of runoff from the parking lots where none currently exists. A formalized joint powers agreement outlining the partnership cost-sharing, roles, and responsibilities was crafted between the RWMWD and Ramsey County.

A preconstruction meeting, led by Loeffler, was held on July 15 at the Aldrich Arena site. Subcontractors were in attendance. Immediately after, Barr began reviewing and responding to Veit submittals and requests for information related to the RWMWD stormwater retrofit project. We are supporting the RWMWD on site to perform periodic construction observation as needed. Barr and RWMWD staff have attended several onsite construction meetings and provided construction document updates. This project, led by the county's design-build contract (Loeffler) has multiple stakeholders. As such, the project has required careful and continuous correspondence from Barr and RWMWD staff.

CIP project repair and maintenance

CIP maintenance/repairs 2019 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)

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

All site work has been completed, and partial payment has been prepared, including release of all retainage for board consideration. In addition, a change order will be provided to request additional time for the contractor to perform "extra" work. This work involves site grading and restoration in the Snail Lake area from high water impacts this spring and early summer. Final completion and contract closure is expected by the end of October 2019.

Natural Resources Update – Bill Bartodziej and Simba Blood

Markham Pond – Aeration System Installation

- Markham was once a substantial carp nursery that fed the Phalen Chain of Lakes.
- Because of this, carp were eliminated from this system.
- In order to safeguard against future infestations and to improve the ecology of the pond, we need to introduce and sustain a healthy bluegill sunfish population.
- Bluegill eat carp eggs and substantially reduce carp recruitment.
- The Watershed received a MPCA Clean Water Partnership grant to create a refuge for bluegill in Markham Pond.
- This consisted of dredging a 5-acre area in the center of the pond to create a deep hole and to aerate this area in the winter when oxygen levels are low.
- Over the last several months, the Watershed has been working with Maplewood and an electrical contractor on the installation of the infrastructure to support the system.
- Power was run to the pond edge and a concrete slab was laid to support the aeration unit – basically 2 compact compressor pumps.
- This week, NR staff is in the process of laying hoses and air diffusers on the pond bottom in the deep hole. The compressor will supply air to the diffusers.
- Once completed, the unit will be run and tested for a few days.
- We will be applying for a DNR permit to operate the system this winter.
- Maplewood will be in charge of public notices alerting the community of the aeration effort and safety precautions.
- Our water quality staff will be monitoring oxygen levels over winter to assess the effectiveness of the system.
- A good portion of this effort was covered by the MPCA grant.



Two compressors feed air to the diffusers on the pond bottom.



The diffusers will create thousands of small air bubbles throughout the water column.



A concrete pad with power was installed to support the aeration unit. Hoses will be run in the PVC pipes down to the water's edge and then out to the center of the pond.



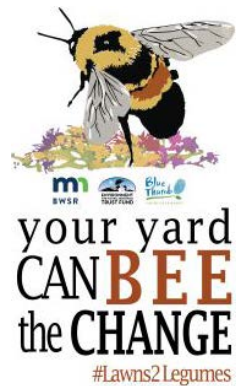
*This June, we partnered with DNR Fisheries on the stocking of bluegill sunfish.
They fully support this management effort.*



Several hundred bluegill were released into Markham Pond.

Public Involvement and Education Program – Sage Passi

Lawns to Legumes: Your Yard Can *BEE* the Change



BWSR recently received state funding to develop a new Lawns to Legumes grant program focused on planting residential lawns with native vegetation and pollinator friendly forbs and legumes to protect a diversity of pollinators. Staff and volunteers from RWMWD were involved in promoting this new program at the Blue Thumb exhibit at the Minnesota State Fair and will continue to be active in implementing it through outreach and education in our watershed. Thank you to our twelve Master Water Stewards and RWMWD staff who volunteered at the Blue Thumb exhibit in front of the Eco Experience building at the State Fair this year!

Blue Thumb Partners is charged with the promotion of the program through their outreach networks, disbursement of funding to landowners, expanding the residential and train the trainer workshop program and providing and coordinating landowner coaching and technical assistance and matching funds. Funding will be prioritized for areas in Rusty Patched Bumblebee territory and to protect other at risk species. [Click here for a link to an interactive map](#) for priority areas and more information. Registration for cost-share and coaching will be available by early December 2019. Workshops may begin as early as November. People can sign up to receive program updates at the same link.

The rusty patched bumblebee's numbers have declined 87% in the last two decades due to pressures from disease, climate change, habitat loss and the widespread overuse of bee-toxic pesticides.

Wondering which superfood plants produce nectar that is rich in protein for adult and larval bumblebees? Here are several: Native giant hyssop (*Agastache spp*), white prairie clover, purple prairie clover, Coneflower species (*Echinacea spp*), Joe Pye weed, wild bergamot, showy goldenrod and other goldenrod species and New England aster. For a larger list of native plants generally recommended for bumble bees [here is a link](#). Here's [a link to a planting design guide](#) resource just published by the state.

Watershed Partners tour a revived wetland in Rice Creek Watershed



(Left) Watershed Partners head into Blaine's Wetland Sanctuary to locate several endangered species that have reappeared since the restoration and selective burning began. (Right) One of many drainage ditches that were created when the area was being farmed.

One of the benefits of being a member of Watershed Partners is the opportunity to be introduced to projects that are being implemented in other watershed districts. At our August meeting, we gathered to take a close look at Blaine's Wetland Sanctuary located in Rice Creek Watershed. With the guidance of Jason Husveth from Critical Connections Ecological Services, the City of Blaine has embarked on a long-term wetland restoration project that's reviving a landscape nearly lost to time. As a result of the region's geologic history, there is an unusual depth of peat in some areas of the Wetland Sanctuary, up to 25 feet deep. Around 100 years ago, settlers attempted to drain and farm the wetlands of Blaine. As a result, trees and invasive species moved into the landscape, covering the peat with a thick layer of thatch. After extracting thousands of trees as well as a six-inch layer of mulch atop the peat made from invasive species, the wetland had its first prescribed burn last May. The results were outstanding. In the past 20 years, Jason said he had seen only a couple dozen ragged fringed orchids bloom here. After the burn, "There were easily 500 in flower," he said.

In this tour facilitated by Jason and Blaine's Water Resources Manager, Rebecca Haug we were led on a detour off the boardwalk to a very unique area of the wetland - a 10' by 10' meter plot of ankle-height vegetation bursting with life. This small section of the 510-acre sanctuary is home to nearly 100 species of plants, including rare and state-endangered species such as lance leaf violets, sundews, and twisted yellow-eyed grass. "The ragged ringed orchids is just one example of many species that responded positively to the fire," said Jason.



The City of Blaine is developing a number of trail heads in nearby housing developments that will intersect with trails in the wetland sanctuary. Seven Picture Posts are installed at the Blaine Wetland Sanctuary. Each post guides visitors to photograph a location in three orientations. Photos can be dated, geotagged, uploaded, and shared on this site. Over time, these photos will document restoration efforts and environmental changes through the seasons and in years to come.

New Directions for Several School Partnerships



Mounds Park Academy's new Middle School Science and Design teacher, John Milam reached out in late August to solicit our involvement in supporting his eighth grade classes in a design competition called Future City. Sage met with John to learn more about the program and provide ideas and background

information that would create a foundation for helping his students develop their projects. Students are required to design a virtual city that exists a 100 years in the future that represents their team's solution to a citywide sustainability issue, write a 1500 word essay, build a model of their city and present to engineers and city planners from across MN. Every year, the design problem changes. This year the problem theme is Clean Water: Tap into Tomorrow. In order to make this happen, students will need to learn a lot about water sources, sustainability, runoff, pollution, accessibility, etc. RWMWD will provide background and support for this initiative.

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Julie Marcquel, Program Specialist in the Life-Long Learning Stem Equity and Education Division of the Minnesota Science Museum invited Sage to participate in a planning/curriculum development day for several schools on August 24 at the museum. This was an opportunity to meet ELL teacher, John Weimholdt who teaches 6th-8th grade classes at Hazel Park Preparatory Academy, one of the schools located in our watershed. He and Mukwa Ogitchida, a science teacher at his school are involved in a design place-based learning program for middle school teachers and students utilizing the Mississippi National River and Recreational Area (MISS) – which is providing opportunities for students to do hands-on learning about water, watersheds and impacts of climate change. Sage will join support teams when they engage in a service learning opportunity in October with classrooms that will gather data about the impact of climate change on the tree viability in the river's flood plain and do water quality monitoring.

Race to Reduce Program

Sage participated in a strategy map making session to frame and guide student engagement in the Race to Reduce program in White Bear Lake and Mahtomedi schools which has funding for one more year. The aim of this meeting was to convene as many partner organizations and stake holders as possible in support of the continuation of this east metro water resource sustainability project, including watershed partners, local and state environmental agencies, Project WET and educators. The work session was held at White Bear Lake School District Center on August 22 with a follow up session coming up on September 10.

Recognition Dinner 2019 Planning Process in Motion

The date of November 14 has been set for RWMWD's Recognition Dinner and Award ceremonies. The event will be held at the Keller Golf Course clubhouse. Nominations for the Watershed Excellence Awards will be accepted through September 9. The Citizen Advisory award committee will meet in September to review nominations and make recommendations which will be given to the Board of Managers to review and approve at the October Board meeting.

Informational Items



MICROPLASTICS: SMALL PARTICLES, BIG CHALLENGES

A Contaminants of Emerging Concern Stakeholder Forum

Tuesday, October 1, 2019 | 9:00AM to 3:00PM

Wilder Foundation

451 Lexington Avenue North
Saint Paul, Minnesota 55104

Join the Minnesota Department of Health for this year's contaminants of emerging concern (CEC) forum, **Microplastics: Small Particles, Big Challenges**. This is an exciting opportunity to learn and share perspectives on the complex and dynamic challenge of microplastics in the environment. The meeting is designed as a forum for networking and discussion across the science and policy sectors, with a specific goal to generate ideas for future work on microplastics.

Presentations will discuss the challenges of studying microplastics, how plastics enter the environment in Minnesota, the fate of microplastics in the environment, and behaviors that reduce plastic pollution. Attendees will participate in a discussion exploring opportunities to advance our understanding of microplastics in Minnesota, identify potential partnerships, and inspire pollution prevention actions.

We are looking forward to hearing from you in October as we continue advancing on the frontier of this exciting work in Minnesota!

Registration required. Please visit <https://www.health.state.mn.us/cec> for more information and to register.