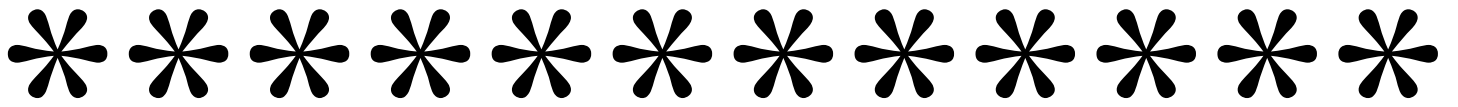




RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

November 2020 Board Packet



Agenda





Regular Board Meeting Agenda

Wednesday, November 4, 2020

6:30 P.M.

Due to the COVID19 pandemic, this month's board meeting will be held via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in via video and/or phone. The public that wish to will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. If you have comments you may speak on the Zoom meeting during the visitor comments agenda item. Instructions for joining in on the Zoom meeting can be found after the agenda.

1. Call to Order – 6:30 PM
2. **Approval of Agenda (pg. 3)**
3. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
 - A. Approval of Regular Meeting Minutes October 7, 2020 (pg. 7)
 - B. Treasurer's Report and Bill List (pg. 14)
 - C. Permit Program
 - i. 20-38 SOS Office Furniture, Vadnais Heights (pg. 23)
 - ii. 20-40 Atomic Architectural Sheet Metal, Vadnais Heights (pg. 27)
 - D. East St. Paul Target Store Retrofit – Change Order No. 2 (pg. 31)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
 - A. Applications
 - i. **20-39 Midland Terrace Phase 1, Shoreview (pg. 38)**
 - B. Enforcement Action Report (pg. 44)
6. Stewardship Grant Program
 - A. Applications – NONE
 - B. Budget Status Update (pg. 47)
7. Presentations and/or Action Items
 - A. **2021 CIP Maintenance and Repair Project Approval of Plans and Authorization to Advertise for Bid (pg. 49)**
 - B. **Keller Channel Weir and Phalen Outlet Resiliency Modification Project Accept Bids and Select Contractor (pg. 71)**

8. Administrator's Report (pg. 73)
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. CAC By-Laws and Membership
 - D. Equity and Inclusion Consultant for RWMWD
9. Project and Program Status Reports (pg. 87)
 - A. Ongoing Project and Program Updates
 - i. Owasso Basin Flood Risk Reduction Feasibility Study
 - ii. West Vadnais to South I-694 Conveyance Feasibility Study
 - iii. Willow Creek Flood Risk Reduction Feasibility Study
 - iv. Ames Lake Area Flood Risk Reduction Feasibility Study
 - v. FEMA Flood Mapping Updates
 - vi. Hillcrest Golf Course
 - vii. Subwatershed Feasibility Studies
 - viii. Targeted Retrofit Projects
 - ix. Kohlman Permeable Weir Test System
 - x. Keller Channel Weir and Phalen Outlet Resiliency Modifications
 - xi. Twin Lake Outlet Construction
 - xii. CIP Maintenance and Repair 2020 Project
 - xiii. Beltline/Battle Creek Tunnel Inspection
 - xiv. Internal Load Management Discussions
 - xv. Project Prioritization Study
 - xvi. New Technology Review: Corrugated Metal Pipe Sane Filter by Lane Enterprises, Inc
 - xvii. Natural Resources Program Update
 - xviii. Education Program Update
 - xix. Communications Program Update
10. Report of Managers
- 11. Adjourn**

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



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING

Wednesday, November 4, 2020

6:30 PM

Via Web Conference and In Lieu of an In-Person Meeting

Per Minnesota Statute 13D.021, President Marj Ebensteiner has determined that an in-person meeting of the RWMWD Board of Managers is not practical or prudent given the COVID-19 pandemic. In compliance with Center for Disease Control and Minnesota Department of Health guidance on minimizing potential for spread of the virus, RWMWD will conduct its regular Wednesday, November 4, 2020, meeting at 6:30 p.m. CDT, by web conference and conference call. Members of the public wishing to participate in the meeting may do so by accessing the web-based conference, or by phone.

To access the meeting via webcast, please use this link:

[JOIN MEETING](#)

(<https://us02web.zoom.us/j/84911063375?pwd=NHhJQWxUR3ZLc2FuSnUvVWpZcnpMZz09>)

The meeting room will open at 6:20 pm with the meeting starting at 6:30 pm. To connect to audio you may choose to use your computer audio options or you may use your mobile device to call. The phone access number is **(312) 626-6799**. The Meeting ID is **849 1106 3375**. The meeting password is **348760**. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.



Consent Agenda





RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

**Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
October 7, 2020**

The Regular Meeting of October 7, 2020, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

PRESENT:

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

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Tracey Galowitz, Attorney for District
Nicole Soderholm, Permit Coordinator
Tyler Olsen, Barr Engineering
Paige Ahlborg, Project Manager

Bill Bartodziej, Natural Resource Specialist
Brad Lindaman, Barr Engineering
John Pound, Yards Per Pound, representing Meyers and Duces
Jeff and Connie Meyer, Lake Owasso Residents
Melissa Duce, Lake Owasso Resident
Melissa Elke, Twin Lake Association Vice President

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA

Motion: Manager Aichinger moved, Manager Swope seconded, to approve the agenda as presented.

A roll call vote was performed:

Manager Swope	aye
Manager Ward	aye
Manager Skinner	aye
Manager Aichinger	aye
President Ebensteiner	aye

Motion carried unanimously.

3. CONSENT AGENDA

A. Approval of Minutes from September 2, 2020

B. Treasurer's Report and Bill List

C. Permit Program

- i. 20-32 MnDOT Highway 61 Drainage Infrastructure, Maplewood
- ii. 20-36 The Parkway, St. Paul

- iii. 20-37 Maplewood Living, Maplewood
- D. Stewardship Grant Program
 - i. 20-46 CS 33rd Company, Woodbury
 - ii. 20-47 CS North East Seniors for Better Living, St. Paul
 - iii. 20-48 CS Neprash, St. Paul
 - iv. 20-49 CS Sharpe, Maplewood
- E. Twin Lake Outlet Project – Change Order No. 1
- F. 2020 CIP Maintenance and Repair Project – Change Order No. 4

Motion: Manager Ward moved, Manager Swope seconded, to approve the consent agenda as presented.

Further discussion: A Manager referenced Item F and asked if there is a process in place to make it easier for field employees to get contractors to complete work without the additional involvement of the Board. Tina Carstens replied that the work has been done and described the process, noting that any changes to the contract need to come before the Board for approval.

A roll call vote was performed:

Manager Swope	aye
Manager Ward	aye
Manager Skinner	aye
Manager Aichinger	aye
President Ebensteiner	aye

Motion carried unanimously.

4. VISITOR COMMENTS

Connie Meyer stated that she and her husband have lived on Lake Owasso for many years and they attempted to do plantings on the lakeshore to protect the shoreline, but that method has failed. She commented that the increased activity from wake boats has damaged their shoreline and they have lost over four feet of shoreline since 2004. She stated that their project is to protect the lakeshore, as fill is going into the lake at increasing rates and the shore continues to erode. She stated that without the variance, the project would be cost prohibitive and the lakeshore will continue to erode.

Tina Carstens noted that their project will be heard under the permit program.

Melissa Elke, Vice President of the Twin Lake Association, reviewed the three main priorities of their association: rerouting West Vadnais to prevent it from overflowing into Twin Lake, restoring the outlet, and water quality.

Melissa Deuce stated that she is south of the Meyer property. She stated that her application along with the Meyer application are unique because of the location along the lake. She stated that there is a large trench near their properties that allow for wake boats to go in that area. She stated that the properties in that area are taking the brunt of the wave action from the boats. She stated that there is a timber wall on her property, which is failing, and the soil is draining from behind the wall.

John Pound stated that both properties have elevations above the lake and if the timber wall goes in, there will be three feet lost on the Deuce property and 1.5 feet on the Meyer property. He commented on the wave activity from boats when he has been at the properties and the shoreline that continues to wash away. He noted that the intent of the projects is to stabilize the existing bank.

5. PERMIT PROGRAM

A. Applications

Nicole Soderholm commented that these two permits include variance requests.

Permit #20-34: W Owasso Boulevard – Shoreview

Nicole Soderholm stated that this would be the Meyer property, noting that the applicants have explained their situation. She stated that the variance would include 38.44 cubic yards of fill below the 100-year floodplain of the lake. She stated that staff requested that the applicants revise their application to come within the rules, but also advised the applicant that they would have the ability to bring their request forward to the Board. She stated that as the floodplain rule stands, there is no exception to the compensatory storage rule, therefore you meet the rule or request a variance.

A Manager asked if the fill within the floodplain would be the riprap. Nicole Soderholm confirmed that it would be the riprap, boulders and backfill. The Manager commented that the lake side of the boulder wall should not be allowed any further into the lake than the current shoreline. Brad Lindaman commented that the waves produced by the wake boats are huge and it would be a unique situation where vegetation would hold up, therefore riprap would be necessary. He asked if the contractor has considered that approach.

John Pound commented that the difference between the ordinary high water (OHW) mark and the floodplain elevation is two feet. He stated that he is attempting to support the bank above the OHW mark but also protect the bank under that mark. He stated that they are not going out further than the previous shoreline.

A Manager commented that they would not have a problem with the boulder wall taking the place of the cement block structure or the timber wall location. It was asked if staff has reviewed the impact to the floodplain. Brad Lindaman commented that the impact to the floodplain would be very small. He stated that there are homes in the floodplain in this area though, so every incremental amount counts. He stated that he would agree with the approach of the Manager to replace the existing structures with the boulder walls. The Manager commented that technically the riprap would most likely constitute as fill and would support that variance as it would be necessary to stabilize the bank. The comment was made that this project would be an improvement as it improves water quality and stabilizes the bank.

Brad Lindaman asked if there have been other spots where the applicants looked to create compensatory storage, even if it is not on the subject property. Nicole Soderholm commented that the District does not have property along the lake. She noted that staff could make a request of the City or County, but noted that in the past the County was not interested in providing additional compensatory storage on Snail Lake.

Tracey Galowitz stated that if this variance is passed, the Board reviewed the benefit provided by the project was weighed against the compensatory storage rule. She stated that in seeking to have a de minimis impact on the floodplain that would place the improvement in the same place the shore previously existed prior to erosion.

A Manager commented that the project appears to be just taking the line back to where it used to be before it was eroded by waves from boat activity. It was noted that there could be discussion related to when the timeline began as that would impact where the shoreline begins. Nicole Soderholm stated that staff reviews the existing conditions to determine where fill would be.

A Manager requested that a floating silt curtain be added as a special provision.

Motion: Manager Aichinger moved, Manager Swope seconded, to approve Permit #20-34 with the floating silt curtain and the notation that the boulder wall should not be further lakeward than the current conditions.

A roll call vote was performed:

Manager Swope aye
Manager Ward aye
Manager Skinner aye
Manager Aichinger aye
President Ebensteiner aye

Motion carried unanimously.

Permit #20-35: 3204 W Owasso Boulevard – Shoreview

Nicole Soderholm noted that there would be a smaller infill amount because the timber wall be removed. She confirmed that a special provision could be added related to the floating silt curtain.

Motion: Manager Aichinger moved, Manager Skinner seconded, to approve Permit #20-35 with the floating silt curtain.

A roll call vote was performed:

Manager Swope aye
Manager Ward aye
Manager Skinner aye
Manager Aichinger aye
President Ebensteiner aye

Motion carried unanimously.

B. Monthly Enforcement Report

During September, eight notices were sent to address: install/maintain perimeter control (2), install/maintain construction entrance (2), sweep streets (1), stabilize exposed soils (2), and implement proper dewatering (1).

6. STEWARDSHIP GRANT PROGRAM

A. Applications – See Consent Agenda

B. Budget Status Update

No comments.

7. PRESENTATIONS AND ACTION ITEMS

B. Gervais Creek Subwatershed Feasibility Study

Tyler Olsen provided details on the process that was followed for the feasibility studies. He reviewed the opportunities identified within the subwatershed, noting that most of the projects would be rain gardens. He provided additional details on some of the identified project areas.

Brad Lindaman provided details on an opportunity for stormwater collection and water quality elements.

A Manager noted that in their travels they noticed certain highway departments denoting chloride reduction zones and asked if that has been considered. Tyler Olsen stated that several staff members from Barr Engineering are working with the MPCA on chloride management. Tina Carstens stated that the District works with its member cities on chloride management and continues to participate in the salt symposium. A Manager encouraged staff to keep up with the research related to chloride application and management.

A Manager noted that some projects mention homeowner cooperation and asked for additional details. Tina Carstens provided details on the typical communication between the District and homeowners related to potential

projects. A Manager commented that they would like to see a timeline that can be used to measure the impact projects have over the subwatershed throughout the years. Tina Carstens confirmed that staff could graph that information and agreed it would be interesting to see the change over the years from the accumulated projects.

A Manager commented that it would also be helpful to have information that identifies the reduction in loading a project would have for the applicable water body. Tyler Olsen provided additional details on the modeling that is completed to prioritize projects based on that knowledge.

A. Fish Creek Subwatershed Feasibility Study

Tyler Olsen stated that the same methodology was used to complete this feasibility study. He noted that this area is a lot less developed than other subwatersheds within the District. He noted that several opportunities for water quality were identified including retrofits and rain gardens. He provided details a more unique project opportunity for the double driveway pond.

Tyler Olsen provided details on another unique project opportunity that would include a swale berm.

A Manager asked how the Pleasant View Park rain garden would be connected to Fish Creek. Tyler Olsen highlighted the path water would take to reach Fish Creek. A Manager commented that would seem a lower priority project because of its distance from Fish Creek. Tyler Olsen noted that one of the benefits of the project would be for education because of its visibility.

C. Project Prioritization Memo

Tyler Olsen stated that the goal was to develop an objective tool that could be used to review and rank the different projects identified through things like these feasibility studies, retrofit projects, and in coordination with the Beltline Resiliency Study. He provided additional details on how the scoring of criteria was developed in order to provide an accurate rating for the District. He stated that previous projects were then scored against the criteria to ensure that the appropriate ranking was gained based on the priority of that project that the District considered it to be.

A Manager commented that it is an impressive tool and something that the District has talked about developing for years. Tyler Olsen provided additional details on how the weighting of certain criteria was developed. A Manager commented that it would be helpful to see how projects are ranked when the District is considering them. Tina Carstens confirmed that staff should share that ranking to the Board when presenting projects.

A Manager suggested some grammatical changes, suggestions for weighting criteria, and received clarification on some definitions.

Tina Carstens noted that staff will continue to finetune the criteria and scoring and will send out the list of past projects that were ranked through the tool for the Managers to review. She noted that the feasibility studies will be finalized based on the comments received tonight and those projects will then be reviewed through the tool.

8. ADMINISTRATOR'S REPORT

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

The Water Resource Conference is coming up in a few weeks and information should be provided in the next week related to access. She noted that the MAWD Annual Meeting will also be held virtually this year.

C. Budget Status Information

No comments.

D. Minnesota Stormwater Research Council

A Manager asked why the District is contributing such a large amount compared to other entities. Another Manager commented that the Watershed Districts are the largest beneficiaries to this information and therefore provide a larger share of the cost. Tina Carstens confirmed that she would increase the budget for this item to \$35,000 with the additional \$10,000 taken from the planned research contingency budget.

E. CAC By-Laws and Membership

A Manager stated that the CAC by-laws were created in 2013-2014, therefore there were a few areas that need updating. A Manager referenced the language related to time of appointment and the consensus was to remove the word automatically. A Manager asked how more diversity could be gained on the Board if the current members choose to continue to participate. Tina Carstens stated that the CAC is currently low on membership and advised that there will be an attempt to recruit members in different communities.

Motion: Manager Aichinger moved, Manager Skinner seconded, to approve the by-laws with the change in language related to the word “automatic”.

A roll call vote was performed:

Manager Swope	aye
Manager Ward	aye
Manager Skinner	aye
Manager Aichinger	aye
President Ebensteiner	aye

Motion carried unanimously.

F. Equity and Inclusion Consultant for RWMWD

Tina Carstens stated that she has heard a desire for more diversity and noted that this effort would be a continuation in working on that. She stated that she was impressed with the proposal, although the price was a bit higher than she expected. She acknowledged that this is long-term work and the consultant was highly recommended.

A Manager commented that they support moving forward in this direction, but suggested that a few more proposals be reviewed. The Board echoed those comments.

9. PROJECT AND PROGRAM STATUS REPORTS

A. Ongoing Project and Program Updates

- i. Owasso Basin Flood Risk Reduction Feasibility Study
- ii. West Vadnais to South I-694 Conveyance Feasibility Study
- iii. Willow Creek Flood Risk Reduction Feasibility Study
- iv. Ames Lake Area Flood Risk Reduction Feasibility Study
- v. FEMA Flood Mapping Updates
- vi. Hillcrest Golf Course
- vii. Subwatershed Feasibility Studies
- viii. Targeted Retrofit Projects
- ix. Kohlman Permeable Weir Test System
- x. Keller Channel Weir and Phalen Outlet Resiliency Modifications
- xi. Twin Lake Outlet Construction
- xii. CIP Maintenance and Repair 2020 Project

- xiii. Beltline/Battle Creek Tunnel Inspection
- xiv. 2020 Tanners Alum Facility Monitoring
- xv. Internal Load Management Discussions
- xvi. Project Prioritization Study
- xvii. Natural Resources Program Update
- xviii. Education Program Update
- xix. Communications Program Update

A Manager asked if there is consideration of ongoing maintenance requirements when permeable pavement is being considered. Paige Ahlborg stated that specific to the Boys and Girls Club project, the Watershed will complete the maintenance for two years and the applicant will then partner with the City for ongoing maintenance. Another Manager asked and received confirmation that the project would use pavers, noting that pavers do not clog as much.

A Manager referenced the Beltline/Battle Creek Tunnel Inspection and asked if a contract would be needed for the repairs. Brad Lindaman confirmed that a contract would come forward, noting that \$50,000 to \$75,000 worth of repairs would be needed and \$75,000 had been budgeted.

A Manager referenced the lake studies and asked for details on the coring samples that were taken. Brad Lindaman explained that a core is taken from the bottom of the lake and then analyzed to determine the amount of phosphorus and mobile phosphorus.

A Manager thanked staff for installing the temporary plant signs as it helps to educate the public and may also encourage others to plant similar flowers and native plants.

10. REPORTS OF MANAGERS

No comments.

11. ADJOURN

Motion: Manager Aichinger moved, Manager Skinner seconded, to adjourn the meeting at 8:29 p.m.

Motion carried unanimously.

RWMWD BUDGET STATUS REPORT
 Administrative & Program Budget
 Fiscal Year 2020
 10/31/2020

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$8,500.00	-	-	2,500.00	\$6,000.00	29.41%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
	Committee/Bd Mtg. Exp.	4365	3,500.00	-	219.00	2,536.54	963.46	72.47%
Sub-Total: Managers/Committees:			\$15,500.00	\$0.00	\$219.00	\$5,036.54	\$10,463.46	32.49%
Employees	Staff salary/taxes/benefits	4010	1,450,000.00	-	164,026.76	1,244,672.93	205,327.07	85.84%
	Employee expenses	4020	10,000.00	-	1,454.49	24,487.86	(14,487.86)	244.88%
	District training & education	4350	25,000.00	-	1,323.19	3,457.27	21,542.73	13.83%
	Sub-Total: Employees:		\$1,485,000.00	\$0.00	\$166,804.44	\$1,272,618.06	\$212,381.94	85.70%
Administration/ Office	GIS system maint. & equip.	4170	15,000.00	-	-	1,694.02	13,305.98	11.29%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	2,600.00	2,400.00	52.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	57.48	801.96	7,198.04	10.02%
	Office supplies	4320	5,000.00	-	152.97	4,502.82	497.18	90.06%
	IT/Internet/Web Site/Software Lic.	4325	55,000.00	-	5,071.00	47,394.83	7,605.17	86.17%
	Postage	4330	5,000.00	-	-	430.65	4,569.35	8.61%
	Printing/copying	4335	8,000.00	-	294.00	4,050.15	3,949.85	50.63%
	Dues & publications	4338	11,000.00	-	50.00	9,904.88	1,095.12	90.04%
	Janitorial/Trash Service	4341	15,000.00	-	-	-	15,000.00	0.00%
	Utilities/Bldg.Contracts	4342	20,000.00	-	637.73	25,450.54	(5,450.54)	127.25%
	Bldg/Site Maintenance	4343	200,000.00	-	4,581.65	10,631.36	189,368.64	5.32%
	Miscellaneous	4390	5,000.00	-	-	377.00	4,623.00	7.54%
	Insurance	4480	40,000.00	-	-	43,749.02	(3,749.02)	109.37%
	Office equipment	4703	150,000.00	-	26.86	8,165.76	141,834.24	5.44%
	Vehicle lease, maintenance	4810-40	43,000.00	-	284.25	32,818.25	10,181.75	76.32%
	Sub-Total: Administration/Office:			\$588,000.00	\$0.00	\$11,155.94	\$192,571.24	\$395,428.76
Consultants/ Outside Services	Auditor/Accounting	4110	60,000.00	-	2,015.85	49,071.58	10,928.42	81.79%
	Engineering-administration	4121	93,000.00	-	4,181.50	54,209.40	38,790.60	58.29%
	Engineering-permit I&E	4122	10,000.00	-	150.00	194.00	9,806.00	1.94%
	Engineering-eng. review	4123	55,000.00	-	2,715.50	36,013.50	18,986.50	65.48%
	Engineering-permit review	4124	55,000.00	-	3,339.00	36,884.00	18,116.00	67.06%
	Project Feasibility Studies	4129	570,000.00	-	35,784.50	305,430.18	264,569.82	53.58%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	1,610.00	23,672.77	16,327.23	59.18%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:			\$933,000.00	\$0.00	\$49,796.35	\$505,475.43	\$427,524.57
Programs	Educational programming	4370	60,000.00	-	963.71	9,641.41	50,358.59	16.07%
	Communications & Marketing	4371	25,000.00	-	7,452.00	14,009.11	10,990.89	56.04%
	Events	4372	50,000.00	-	-	24,092.03	25,907.97	48.18%
	Water QM-Engineering	4520-30	185,000.00	-	38,423.36	167,458.99	17,541.01	90.52%
	Project operations	4650	160,000.00	-	2,564.35	67,577.73	92,422.27	42.24%
	SLMP/TMDL Studies	4661	173,000.00	-	10,011.50	58,060.09	114,939.91	33.56%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	24,592.13	96,176.17	43,823.83	68.70%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	5,161.14	42,686.90	24,313.10	63.71%
	Research Projects	4695	95,000.00	-	6,883.00	50,964.27	44,035.73	53.65%
	Health and Safety Program	4697	3,000.00	-	-	1,311.73	1,688.27	43.72%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
Sub-Total: Programs:			\$968,000.00	\$0.00	\$96,051.19	\$531,978.43	\$436,021.57	54.96%
GENERAL FUND TOTAL			\$3,989,500.00	\$0.00	\$324,026.92	\$2,507,679.70	\$1,481,820.30	62.86%
CIP's	CIP Project Repair & Maintenance	516	1,115,000.00	-	29,660.73	1,123,731.01	(8,731.01)	100.78%
	Targeted Retrofit Projects	518	1,012,000.00	-	364,454.64	775,593.52	236,406.48	76.64%
	Flood Risk Reduction Fund	520	4,000,000.00	-	40,017.44	477,929.95	3,522,070.05	11.95%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	400,074.00	-	-	397,918.26	2,155.74	99.46%
	Stewardship Grant Program Fund	528-529	1,000,000.00	-	69,359.66	682,075.18	317,924.82	68.21%
	Impervious Surface Volume Reduction Opportunity	531	1,600,000.00	-	-	-	1,600,000.00	0.00%
	Wakefield Park Project	553	100,000.00	-	391.50	18,188.77	81,811.23	18.19%
District Office Bond Payment	585	194,885.00	-	-	120,358.21	74,526.79	61.76%	
CIP BUDGET TOTAL			\$9,421,959.00	\$0.00	\$503,883.97	\$3,595,794.90	\$5,826,164.10	38.16%
TOTAL BUDGET			\$13,411,459.00	\$0.00	\$827,910.89	\$6,103,474.60	\$7,307,984.40	45.51%

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/19	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 10/31/20
101 - General Fund	\$4,633,167.33	-	1,597,877.90	324,026.92	2,507,679.70	3,723,365.53
516 - CIP Project Repair & Maintenance	1,160,359.00	-	536,334.87	29,660.73	1,123,731.01	572,962.86
518 - Targeted Retrofit Projects	(52,309.00)	-	536,838.65	364,454.64	775,593.52	(291,063.87)
520 - Flood Damage Reduction Fund	2,565,820.00	-	808,787.07	40,017.44	477,929.95	2,896,677.12
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	1,252,348.00	-	49,127.63	-	397,918.26	903,557.37
528/529 - Stewardship Grant Program Fund	711,696.00	-	424,378.36	69,359.66	682,075.18	453,999.18
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	53,047.29	-	-	1,537,262.29
553 - Wakefield Park Project	268,349.00	-	-	391.50	18,188.77	250,160.23
580 - Contingency Fund	891,682.00	-	-	-	-	891,682.00
585 - Certificates of Participation	130,460.00	-	103,716.69	-	120,358.21	113,818.48
Total District Fund Balance	\$13,045,787.33	\$0.00	\$4,110,108.46	\$827,910.89	\$6,103,474.60	\$11,052,421.19

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

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	10/12/20	hea002	Nov 2020	HealthPartners	Employee Benefits	11,909.86
71810	10/15/20	aws001	S1335957-100120	AWS Service Center	Bldg./Site Maintenance	212.34
71811	10/15/20	ben002	97527	Benefit Extras, Inc.	Employee Benefits	90.00
71812	10/15/20	cit011	229391	City of Roseville	IT/Website/Software	399.00
71813	10/15/20	hom001	2020411	Home Depot Credit Services	Natural Resources Project	144.36
71814	10/15/20	mbb001	1520	MBB Construction Services, Inc.	Bldg./Site Maintenance	2,987.50
71815	10/15/20	mid003	552795	Roseville Midway Ford	Vehicle Maintenance	116.78
71816	10/15/20	ncp001	Sep 2020	NCPERS Group Life Ins.	Employee Benefits	16.00
71817	10/15/20	nsp001	702365248	Xcel Energy	Bldg./Site Maintenance	413.97
71818	10/15/20	pre003	317768721	Premium Waters, Inc.	Bldg./Site Maintenance	26.00
71819	10/15/20	usb005	45268687.00	US Bank Equipment Finance	Printing Expense	294.00
71820	10/27/20	att002	401X10252020	AT & T Mobility - ROC	Office Equipment/Water QM	107.31
71821	10/27/20	aut001	35395S/35394S	Automatic Systems Co.	Water QM Staff	3,145.55
71822	10/27/20	bar001	9/19-10/16/20	Barr Engineering	September/October Engineering	167,124.91
71823	10/27/20	bar004	Oct 2020	Deborah Barnes	Employee Reimbursement	40.00
71824	10/27/20	big003	19-415	Bigos-Villages on McKnight, LLC	Dev.Escrow-General	8,500.00
71825	10/27/20	cad001	17127926	Allstream	Project Operations	69.45
71826	10/27/20	cap002	20-41 CS	Victoria Caprioni	Stewardship Grant Fund	8,250.00
71827	10/27/20	che003	15-11	Cherrywood Pointe Lexington Roseville	Dev.Escrow-General	22,640.00
71828	10/27/20	cit011	229507/229463	City of Roseville	IT/Website/Software	4,576.00
71829	10/27/20	don003	20-29 CS	Jake Donahue	Stewardship Grant Fund	12,091.00
71830	10/27/20	eco002	1594	Ecoscapes Sustainable Landscaping	Stewardship Grant Fund	10,561.00
71831	10/27/20	fit002	Oct 2020	Mary Fitzgerald	Employee Reimbursement	98.94
71832	10/27/20	gal001	Oct 2020	Galowitz Olson, PLLC	October Legal Expense	1,958.00
71833	10/27/20	gol001	16-07	Golden Valley Land Company	Dev.Escrow-General	25,660.00
71834	10/27/20	haz001	Oct 2020	Lauren Hazenson	Employee Reimbursement	40.00
71835	10/27/20	int001	W20090519	Office of MN, IT Services	Telephone Expense	57.48
71836	10/27/20	kel007	20-11 MTN	Keller Property Management	Stewardship Grant Fund	101.79
71837	10/27/20	kub001	Oct 2020	Kyle W. Kubitz	Employee Reimbursement	316.23
71838	10/27/20	lan010	20-04	Landscape Architecture	Dev.Escrow-General	3,000.00
71839	10/27/20	mel001	Oct 2020	Michelle L. Melser	Employee Reimbursement	214.48
71840	10/27/20	min008	26339	Minnesota Native Landscapes, Inc.	Construction Imp.-Maint & Repair	10,008.75
71841	10/27/20	nsp001	703422958	Xcel Energy	Utilities/Proj.Operations/Water QM	666.49
71842	10/27/20	out001	20-080	Outdoor Lab Landscape Design, Inc.	BMP Cost Share Program	6,725.00
71843	10/27/20	pac001	2012022471	Pace Analytical Services, Inc.	Water QM Staff	1,086.00
71844	10/27/20	pas002	Sep-Oct 2020	Sage Passi	Employee Reimbursement	251.77
71845	10/27/20	pet002	20-43 CS	Antoinette Peterson	Stewardship Grant Fund	4,500.00
71846	10/27/20	qwe001	Oct 2020	CenturyLink	Project Operations	241.63
71847	10/27/20	ram002	COR003432	Ramsey County	Educational/Proj.Oper./Stewardship	52,585.99
71848	10/27/20	red002	150456431	Redpath & Company, Ltd	September Accounting	2,015.85
71849	10/27/20	reg002	0340029206	Regents of the University of Minnesota	Research Projects	6,883.00
71850	10/27/20	rey001	20-02 MTN	Thomas Reynen	Stewardship Grant Fund	799.34
71851	10/27/20	san003	Oct 2020	Sandstrom Land Management	Construction Imp.-Maint & Repair	1,117.50
71852	10/27/20	sch009	26052	Schlomka Services, LLC	Project Operations	6,230.00
71853	10/27/20	sim001	Sep-Oct 2020	Emily Simmons	Employee Reimbursement	327.18
71854	10/27/20	sod001	Oct 2020	Nicole Soderholm	Employee Reimbursement	75.73
71855	10/27/20	stu001	2019393	Studio Lola	Communications & Marketing	6,262.00
71856	10/27/20	sun001	Progress Pay #2	Sunram Construction, Inc	BMP Cost Share Program	240,424.08
71857	10/27/20	tas001	20-044/#1A	T.A. Schifsky & Sons	BMP Cost Share Program	99,110.00
71858	10/27/20	tim002	M25959	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expense	219.00
71859	10/27/20	tro002	20-10	Cathy Troendle	Educational Program	624.68
71860	10/27/20	usb002	Oct 2020	U.S. Bank	October Credit Card Expense	2,736.11
71861	10/27/20	van001	74969	Vanguard Cleaning Systems of Minnesota	Bldg./Site Maintenance	550.00
71862	10/27/20	van003	Oct 2020	Erika Van Krevelen	Employee Reimbursement	319.13
71863	10/27/20	voy001	869293423043	US Bank Voyager Fleet Sys.	Vehicle Fuel	167.47
71864	10/27/20	was002	4970/4991	Washington Conservation District	Outside Program Support/Stewardship	3,983.00
71865	10/27/20	win002	6155	Windmill Strategy	Communications & Marketing	1,120.00
71866	10/27/20	don001	Oct 2020	Matthew Doneux	Employee Reimbursement	240.20
Total						\$734,431.85

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

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	09/04/20	myp001	09/04/20	September 4th Payroll Fees	4110-101-000	74.90
EFT	09/18/20	myp001	09/18/20	September 18th Payroll Fees	4110-101-000	73.55
Dir.Dep.	10/02/20	---	Payroll Expense-Net	October 2nd Payroll	4010-101-000	29,450.21
EFT	10/02/20	int002	Internal Rev.Serv.	October 2nd Federal Withholding	2001-101-000	9,961.23
EFT	10/02/20	mnd001	MN Revenue	October 2nd State Withholding	2003-101-000	1,845.95
EFT	10/02/20	per001	PERA	October 2nd PERA	2011-101-000	5,927.42
EFT	10/02/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,404.00
EFT	10/02/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
Dir.Dep.	10/16/20	---	Payroll Expense-Net	October 16th Payroll	4010-101-000	29,351.38
EFT	10/16/20	int002	Internal Rev.Serv.	October 16th Federal Withholding	2001-101-000	9,923.33
EFT	10/16/20	mnd001	MN Revenue	October 16th State Withholding	2003-101-000	1,839.33
EFT	10/16/20	per001	PERA	October 16th PERA	2011-101-000	5,904.12
EFT	10/16/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,379.00
EFT	10/16/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
Dir.Dep.	10/30/20	---	Payroll Expense-Net	October 30th Payroll	4010-101-000	29,784.76
EFT	10/30/20	int002	Internal Rev.Serv.	October 30th Federal Withholding	2001-101-000	10,078.31
EFT	10/30/20	mnd001	MN Revenue	October 30th State Withholding	2003-101-000	1,869.94
EFT	10/30/20	per001	PERA	October 30th PERA	2011-101-000	5,989.81
EFT	10/30/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,379.00
EFT	10/30/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
Payroll/Benefits						<u>\$150,511.24</u>
Total						Accounts Payable/Payroll/Benefits: <u>\$884,943.09</u>

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

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
10/12/20	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	\$11,909.86	
10/15/20	71810	aws001	AWS Service Center	4343-101-000	Bldg/Site Maintenance	212.34	
10/15/20	71811	ben002	Benefit Extras, Inc.	4040-101-000	Employee Benefits-General	90.00	
10/15/20	71812	cit011	City of Roseville	4325-101-000	IT/Website/Software	399.00	
10/15/20	71813	hom001	Home Depot Credit Services	4670-101-000	Natural Resources Project-General	144.36	
10/15/20	71814	mmb001	MBB Construction Services, Inc.	4343-101-000	Bldg/Site Maintenance	2,987.50	
10/15/20	71815	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maintenance-General	116.78	
10/15/20	71816	nep001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits-General	16.00	
10/15/20	71817	nsp001	Xcel Energy	4343-101-000	Bldg/Site Maintenance	413.97	
10/15/20	71818	pre003	Premium Waters, Inc.	4343-101-000	Bldg/Site Maintenance	26.00	
10/15/20	71819	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
10/27/20	71820	att002	AT & T Mobility - ROC			107.31	
				4530-101-000	Water QM Staff-General		80.45
				4703-101-000	Office Equipment-General		26.86
10/27/20	71821	aut001	Automatic Systems Co.	4530-101-000	Water QM Staff-General	3,145.55	
10/27/20	71822	bar001	Barr Engineering			167,124.91	
				4121-101-000	Engineering Admin-General Fund		4,181.50
				4123-101-000	Engineering-Review		2,715.50
				4129-101-000	Project Feasability-General		4,856.50
				4129-101-000	Project Feasability-General		8,014.00
				4129-101-000	Project Feasability-General		15,422.00
				4129-101-000	Project Feasability-General		1,632.00
				4129-101-000	Project Feasability-General		2,023.50
				4129-101-000	Project Feasability-General		503.50
				4129-101-000	Project Feasability-General		122.50
				4129-101-000	Project Feasability-General		3,210.50
				4520-101-000	Water QM-Engineering		3,404.65
				4520-101-000	Water QM-Engineering		1,511.50
				4520-101-000	Water QM-Engineering		6,962.83
				4520-101-000	Water QM-Engineering		7,499.71
				4520-101-000	Water QM-Engineering		6,962.83
				4520-101-000	Water QM-Engineering		7,292.83
				4520-101-000	Water QM-Engineering		409.00
				4122-101-000	Engineering-Permit I & E		150.00
				4124-101-000	Engineering-Permit Review		3,339.00
				4661-101-000	SLMP/TMDL Studies		6,368.00
				4661-101-000	SLMP/TMDL Studies		2,201.00
				4661-101-000	SLMP/TMDL Studies		1,442.50
				4650-101-000	Project Operations-General		2,184.49
				4128-518-000	Engineering-School/Commer Retrofit		4,668.00
				4128-518-000	Engineering-School/Commer Retrofit		10,835.56
				4128-518-000	Engineering-School/Commer Retrofit		1,047.50
				4128-553-000	Engineering-Wakefield		391.50
				4128-518-000	Engineering-School/Commer Retrofit		1,162.50
				4128-518-000	Engineering-School/Commer Retrofit		242.00
				4682-529-000	Stewardship Grant Fund		4,168.53
				4128-520-000	Engineering-Flood Damage		33,105.00

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

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4128-520-000	Engineering-Flood Damage		560.00
				4128-516-000	Engineering-Maint. & Repair		14,879.98
				4128-516-000	Engineering-Maint. & Repair		216.50
				4128-516-000	Engineering-Maint. & Repair		3,438.00
10/27/20	71823	bar004	Deborah Barnes	4040-101-000	Employee Benefits-General	40.00	
10/27/20	71824	big003	Bigos-Villages on McKnight, LLC	2024-101-000	Dev Escrow-General	8,500.00	
10/27/20	71825	cad001	Allstream	4650-101-000	Project Operations-General	69.45	
10/27/20	71826	cap002	Victoria Caprioni	4682-529-000	Stewardship Grant Fund	8,250.00	
10/27/20	71827	che003	Cherrywood Pointe Lexington Roseville	2024-101-000	Dev Escrow-General	22,640.00	
10/27/20	71828	cit011	City of Roseville	4325-101-000	IT/Website/Software	4,576.00	
10/27/20	71829	don003	Jake Donahue	4682-529-000	Stewardship Grant Fund	12,091.00	
10/27/20	71830	eco002	Ecoscapes Sustainable Landscaping	4682-529-000	Stewardship Grant Fund	10,561.00	
10/27/20	71831	fit002	Mary Fitzgerald			98.94	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		58.94
10/27/20	71832	gal001	Galawitz Olson, PLLC			1,958.00	
				4131-101-000	Attorney General-General		1,610.00
				4131-520-000	Attorney-Flood Damage		108.00
				4131-518-000	Attorney-Targeted Retrofit		240.00
10/27/20	71833	gol001	Golden Valley Land Company	2024-101-000	Dev Escrow-General	25,660.00	
10/27/20	71834	haz001	Lauren Hazenson	4040-101-000	Employee Benefits-General	40.00	
10/27/20	71835	int001	Office of MN, IT Services	4320-101-000	Telephone-General	57.48	
10/27/20	71836	kel007	Keller Property Management	4682-529-000	Stewardship Grant Fund	101.79	
10/27/20	71837	kub001	Kyle W. Kubitz			316.23	
				4530-101-000	Water QM Staff-General		31.03
				4020-101-000	Employee Expenses-General		285.20
10/27/20	71838	lan010	Landscape Architecture	2024-101-000	Dev Escrow-General	3,000.00	
10/27/20	71839	mel001	Michelle L. Melser	4020-101-000	Employee Expenses-General	214.48	
10/27/20	71840	min008	Minnesota Native Landscapes, Inc.	4372-101-000	Construction Imp.-Maint. & Repair	10,008.75	
10/27/20	71841	nsp001	Xcel Energy			666.49	
				4342-101-000	Utilities/Bldg. Contracts		637.73
				4650-520-000	Project Operations-Flood		14.44
				4530-101-000	Water QM Staff-General		14.32
10/27/20	71842	out001	Outdoor Lab Landscape Design, Inc.	4682-518-000	BMP Cost Share Program	6,725.00	
10/27/20	71843	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	1,086.00	
10/27/20	71844	pas002	Sage Passi			251.77	
				4020-101-000	Employee Expenses-General		162.73
				4040-101-000	Employee Benefits-General		40.00
				4370-101-000	Educational Program-General		49.04
10/27/20	71845	pet002	Antoinette Peterson	4682-529-000	Stewardship Grant Fund	4,500.00	
10/27/20	71846	qwe001	CenturyLink	4650-101-000	Project Operations-General	241.63	
10/27/20	71847	ram002	Ramsey County			52,585.99	
				4370-101-000	Educational Program-General		289.99
				4670-101-000	Natural Resources Project-General		20,216.00
				4670-101-000	Natural Resources Project-General		4,000.00
				4682-529-000	Stewardship Grant Fund		28,080.00

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

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
10/27/20	71848	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	2,015.85	
10/27/20	71849	reg002	Regents of the University of Minnesota	4695-101-000	Research Projects-General	6,883.00	
10/27/20	71850	rey001	Thomas Reynen	4682-529-000	Stewardship Grant Fund	799.34	
10/27/20	71851	san003	Sandstrom Land Management	4630-516-000	Construction Imp.-Maint. & Repair	1,117.50	
10/27/20	71852	sch009	Schlomka Services, LLC	4650-520-000	Project Operations-Flood	6,230.00	
10/27/20	71853	sim001	Emily Simmons	4020-101-000	Employee Expenses-General	327.18	
10/27/20	71854	sod001	Nicole Soderholm			75.73	
				4040-101-000	Employee Benefits-General		39.50
				4020-101-000	Employee Expenses-General		36.23
10/27/20	71855	stu001	Studio Lola	4371-101-000	Communications & Marketing	6,262.00	
10/27/20	71856	sun001	Sunram Construction, Inc.	4682-518-000	BMP Cost Share Program	240,424.08	
10/27/20	71857	tas001	T.A. Schifsky & Sons	4682-528-000	BMP Cost Share Program	99,110.00	
10/27/20	71858	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	219.00	
10/27/20	71859	tro002	Cathy Troendle	4370-101-000	Educational Program-General	624.68	
10/27/20	71860	usb002	U.S. Bancorp			2,736.11	
				4343-101-000	Bldg/Site Maintenance		44.02
				4320-101-000	Office Supplies		49.30
				4343-101-000	Bldg/Site Maintenance		35.07
				4320-101-000	Office Supplies		31.03
				4350-101-000	Training & Education-General		43.19
				4350-101-000	Training & Education-General		85.00
				4325-101-000	IT/Website/Software		96.00
				4650-101-000	Project Operations		68.78
				4320-101-000	Office Supplies		52.98
				4343-101-000	Bldg/Site Maintenance		312.75
				4320-101-000	Office Supplies		19.66
				4350-101-000	Training & Education-General		375.00
				4338-101-000	Dues		50.00
				4670-101-000	Natural Resources Project-General		63.27
				4350-101-000	Training & Education-General		75.00
				4350-101-000	Training & Education-General		85.00
				4040-101-000	Employee Benefits-General		9.95
				4040-101-000	Employee Benefits-General		487.45
				4530-101-000	Water QM Staff-General		22.66
				4350-101-000	Training & Education-General		85.00
				4350-101-000	Training & Education-General		85.00
				4350-101-000	Training & Education-General		85.00
				4350-101-000	Training & Education-General		85.00
				4371-101-000	Communications & Marketing		35.00
				4371-101-000	Communications & Marketing		35.00
				4350-101-000	Training & Education-General		165.00
				4350-101-000	Training & Education-General		50.00
				4350-101-000	Training & Education-General		105.00
10/27/20	71861	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	550.00	
10/27/20	71862	van003	Erika Van Krevelen	4020-101-000	Employee Expenses-General	319.13	
10/27/20	71863	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	167.47	

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

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
10/27/20	71864	was002	Washington Conservation District			3,983.00	
				4682-529-000	Stewardship Grant Fund		808.00
				4683-101-000	Outside Program Support		3,175.00
10/27/20	71865	win002	Windmill Strategy			1,120.00	
				4371-101-000	Communications & Marketing		
10/27/20	71866	don001	Matthew Doneux			240.20	
				4020-101-000	Employee Expenses-General		50.60
				4040-101-000	Employee Benefits-General		21.10
				4670-101-000	Natural Resources Project-General		168.50
Accounts Payable Total:						\$734,431.85	
EFT	09/04/20	myp001	Payroll Fees	4110-101-000	September 4th Payroll Fees	74.90	
EFT	09/18/20	myp001	Payroll Fees	4110-101-000	September 18th Payroll Fees	73.55	
Dir.Dep.	10/02/20	---	Payroll Expense-Net	4010-101-000	October 2nd Payroll	29,450.21	
EFT	10/02/20	int002	Internal Revenue Service	2001-101-000	October 2nd Federal Withholding	9,961.23	
EFT	10/02/20	mnd001	MN Revenue	2003-101-000	October 2nd State Withholding	1,845.95	
EFT	10/02/20	per001	PERA	2011-101-000	October 2nd PERA	5,927.42	
EFT	10/02/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,404.00	
EFT	10/02/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Dir.Dep.	10/16/20	---	Payroll Expense-Net	4010-101-000	October 16th Payroll	29,351.38	
EFT	10/16/20	int002	Internal Revenue Service	2001-101-000	October 16th Federal Withholding	9,923.33	
EFT	10/16/20	mnd001	MN Revenue	2003-101-000	October 16th State Withholding	1,839.33	
EFT	10/16/20	per001	PERA	2011-101-000	October 16th PERA	5,904.12	
EFT	10/16/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,379.00	
EFT	10/16/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Dir.Dep.	10/30/20	---	Payroll Expense-Net	4010-101-000	October 30th Payroll	29,784.76	
EFT	10/30/20	int002	Internal Revenue Service	2001-101-000	October 30th Federal Withholding	10,078.31	
EFT	10/30/20	mnd001	MN Revenue	2003-101-000	October 30th State Withholding	1,869.94	
EFT	10/30/20	per001	PERA	2011-101-000	October 30th PERA	5,989.81	
EFT	10/30/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,379.00	
EFT	10/30/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Payroll/Benefits						\$150,511.24	
TOTAL:						\$884,943.09	



**Summary of Professional Engineering Services During the Period
September 19, 2020 through October 16, 2020**

	Total Engineering Budget (2020)	Total Fees to Date (2020)	Budget Balance (2020)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$54,209.40	\$21,790.60	\$4,181.50	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$850.00	\$1,150.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$1,109.50	\$18,890.50		4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$36,013.50	\$18,986.50	\$2,715.50	4123-101	DW-13
Project Feasibility Studies						
Interim emergency response plan funds for top priority District flooding areas	\$45,000.00	\$154.00	\$44,846.00		4129-101	DW-19
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$169,654.00	\$47,346.00		4129-101	BELT-3
FEMA Flood Mapping Update	\$109,720.00	\$63,545.50	\$46,174.50	\$4,856.50	4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$47,285.50	\$22,714.50		4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$25,000.00	\$14,864.50	\$10,135.50	\$8,014.00	4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Owasso Basin by-pass pipeline feasibility study/prelim design (Atlas 14 #1 priority area)	\$125,000.00	\$154,677.54	-\$29,677.54	\$15,422.00	4129-101	GC-3, BELT-3
Willow Creek flood damage reduction feasibility study (Atlas 14 - #2 priority flooding area)	\$50,000.00	\$26,193.96	\$23,806.04	\$1,632.00	4129-101	DW-9, BELT-3
Ames Lake area flood damage reduction feasibility study (Atlas 14 #3 priority area)	\$50,000.00	\$5,066.00	\$44,934.00	\$2,023.50	4129-101	DW-9, BELT-3
West Vadnais Lake to South of I-694 Conveyance Feasibility Study	\$35,000.00	\$55,984.73	-\$20,984.73	\$503.50	4129-101	DW-9, BELT-3
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$1,150.00	\$23,850.00		4129-101	DW-10
694/494/94 WQ treatment feasibility study	\$30,000.00	\$122.50	\$29,877.50	\$122.50	4129-101	BCL-3
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$40,000.00	\$19,069.45	\$20,930.55	\$3,210.50	4129-101	DW-1, DW-2
Battle Creek Lower Ravine Restoration Feasibility Study	\$25,000.00	\$0.00	\$25,000.00		4129-101	BC-3
Wetland Restoration Site Search	\$25,000.00	\$29,059.60	-\$4,059.60		4129-101	DW-8
Contingency*	\$25,000.00	\$0.00	\$25,000.00		4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00		4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$98.00	\$9,902.00		4520-101	DW-2
Special Project BMP Monitoring and annual report development	\$25,000.00	\$29,768.65	-\$4,768.65	\$3,404.65	4520-101	DW-12
Auto lake monitoring system for Grass Lake	\$20,000.00	\$20,664.11	-\$664.11		4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$23,598.75	-\$3,598.75		4520-101	DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$18,891.28	\$1,108.72		4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$26,764.99	-\$6,764.99	\$1,511.50	4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$22,072.60	-\$2,072.60		4520-101	DW-18
Auto lake monitoring system for Spoon Lake	\$20,000.00	\$11,174.49	\$8,825.51	\$6,962.83	4520-101	DW-18
Auto lake monitoring system for Tanners Lake	\$20,000.00	\$25,735.77	-\$5,735.77	\$7,499.71	4520-101	DW-18
Auto lake monitoring system for Battle Creek Lake	\$20,000.00	\$8,327.83	\$11,672.17	\$6,962.83	4520-101	DW-18
Auto lake monitoring system for Twin Lake	\$20,000.00	\$10,011.58	\$9,988.42	\$7,292.83	4520-101	DW-18
Auto lake monitoring system Data Webpage	\$20,000.00	\$3,999.00	\$16,001.00	\$409.00	4520-101	DW-18
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$194.00	\$9,806.00	\$150.00	4122-101	DW-7
Permit Application Review	\$55,000.00	\$36,884.00	\$18,116.00	\$3,339.00	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2020 Grant Applications	\$20,000.00	\$555.50	\$19,444.50		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$1,609.00	\$1,391.00		4661-101	TaL-1
Internal load management - Sediment cores and macrophyte surveys for Wakefield, Bennett, Kohlman Lake, Round Lake (LC), Beaver Lake, Battle Creek Lake, Lake Owasso, Lake Emily, Twin Lake	\$50,000.00	\$38,351.74	\$11,648.26	\$6,368.00	4661-101	KL-2, GC-2, WL-3, BL-3, BCL-2, LE-4, BeL-3, LO-5, LE-4
Wakefield Lake internal load modeling (sediment and curlyleaf)	\$30,000.00	\$5,438.00	\$24,562.00	\$2,201.00	4661-101	WL-3, WL-4
WMP Updates - Including Implementation Plan Updates	\$10,000.00	\$1,335.00	\$8,665.00		4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$10,770.85	\$4,229.15	\$1,442.50	4661-101	DW-13
Contingency for Lake Studies	\$25,000.00	\$0.00	\$25,000.00		4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$314.50	\$11,685.50		4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$5,258.77	\$9,741.23		4695-101	DW-12
Phalen Chain of Lakes Changes in Water Quality	\$5,000.00	\$4,080.00	\$920.00		4695-101	DW-12
Project Operations						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$15,313.64	-\$313.64	\$2,184.49	4650-101	TaL-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$0.00	\$30,000.00		4650-101	DW-9, BELT-3
Capital Improvements						
Target and Motel 6 (Final Design, Plans and Specification Phase)	\$289,400.00	\$282,583.01	\$6,816.99	\$4,668.00	4128-518	DW-6
East St. Paul Target (Construction Phase)	\$124,000.00	\$26,504.56	\$97,495.44	\$10,835.56	4128-518	DW-6
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$20,000.00	\$5,151.00	\$14,849.00		4128-518	DW-6
Aldrich Arena (soils and plantings)	\$25,000.00	\$20,403.39	\$4,596.61	\$1,047.50	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$18,188.77	-\$688.77	\$391.50	4128-553	DW-6, WL-1
Commercial Sites Retrofit Projects 2020 (Targeted Retrofits) - Target/Motel 6/Boys club	\$45,000.00	\$9,355.00	\$35,645.00		4128-518	DW-6
School Sites Retrofit Projects 2020 (Targeted Retrofits)	\$45,000.00	\$10,500.86	\$34,499.14	\$1,162.50	4128-518	DW-6
Church Sites Retrofit Projects 2020 (Targeted Retrofit)	\$45,000.00	\$11,220.96	\$33,779.04	\$242.00	4128-518	DW-6
BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$75,000.00	\$36,389.90	\$38,610.10	\$4,168.53	4682-529	DW-6
Lowering West Vadnais Lake Outlet	\$50,000.00	\$48,499.75	\$1,500.25		4128-520	DW-9
Wetland Restoration (Cottage Place or other)	\$100,000.00	\$0.00	\$100,000.00		4128-529	DW-1, DW-8
Keller Channel Weir & Phalen Outlet Resiliency Modifications	\$250,000.00	\$139,491.28	\$110,508.72	\$33,105.00	4128-520	DW-9, BELT-3
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans	\$90,000.00	\$70,461.87	\$19,538.13	\$560.00	4128-520	DW-9
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$38,332.80	\$36,667.20	\$14,879.98	4128-516	DW-5
Beltline 5-year Inspection	\$100,000.00	\$52,262.95	\$47,737.05	\$216.50	4128-516	BELT-2
2020 CIP Maintenance and Repairs	\$150,000.00	\$79,529.38	\$70,470.62	\$3,438.00	4128-516	DW-5
2021 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$0.00	\$30,000.00		4128-516	DW-5

TOTAL PAYABLE FOR PERIOD 9/19/20 - 10/16/20

\$167,124.91

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

Bradley J. Lindaman, Vice President

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

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

Page: 1
October 21, 2020
File No: 9M

	Balance
General Account	\$1,610.00
Twin Lakes BP Project	\$108.00
St. Rose of Lima Project	\$240.00
	<u>\$1,958.00</u>

Permit Application Coversheet

Date November 04, 2020

Project Name SOS Office Furniture

Project Number 20-38

Applicant Name Drew Stemper, APX Construction Group, LLC

Type of Development Commercial/Retail

Property Description

This project is located at 3291 Labore Road, northeast of I-35E and I-694 in the City of Vadnais Heights. The applicant is proposing to construct a commercial facility including buildings and associated parking. The total site area is 2.67 acres. Three infiltration basins are proposed to meet stormwater treatment requirements. Pretreatment will include vegetated filter strips and a sediment forebay.

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 runoff from the site.

Water Quality Considerations

Short Term

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

Long Term

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

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map
- Project Grading Plan

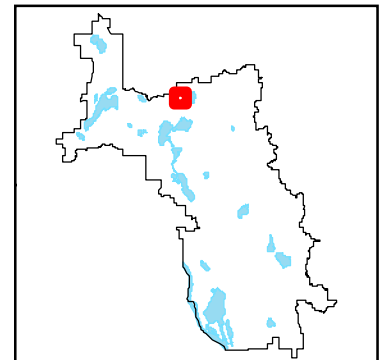
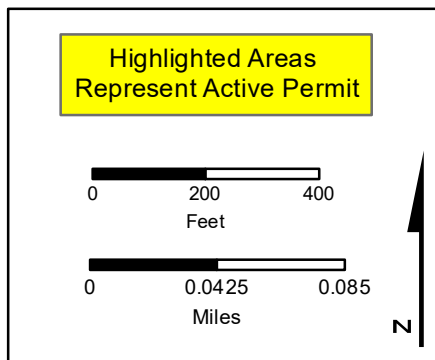
#20-38 SOS Office Furniture



Note: Shaded area is outside RWMWD

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

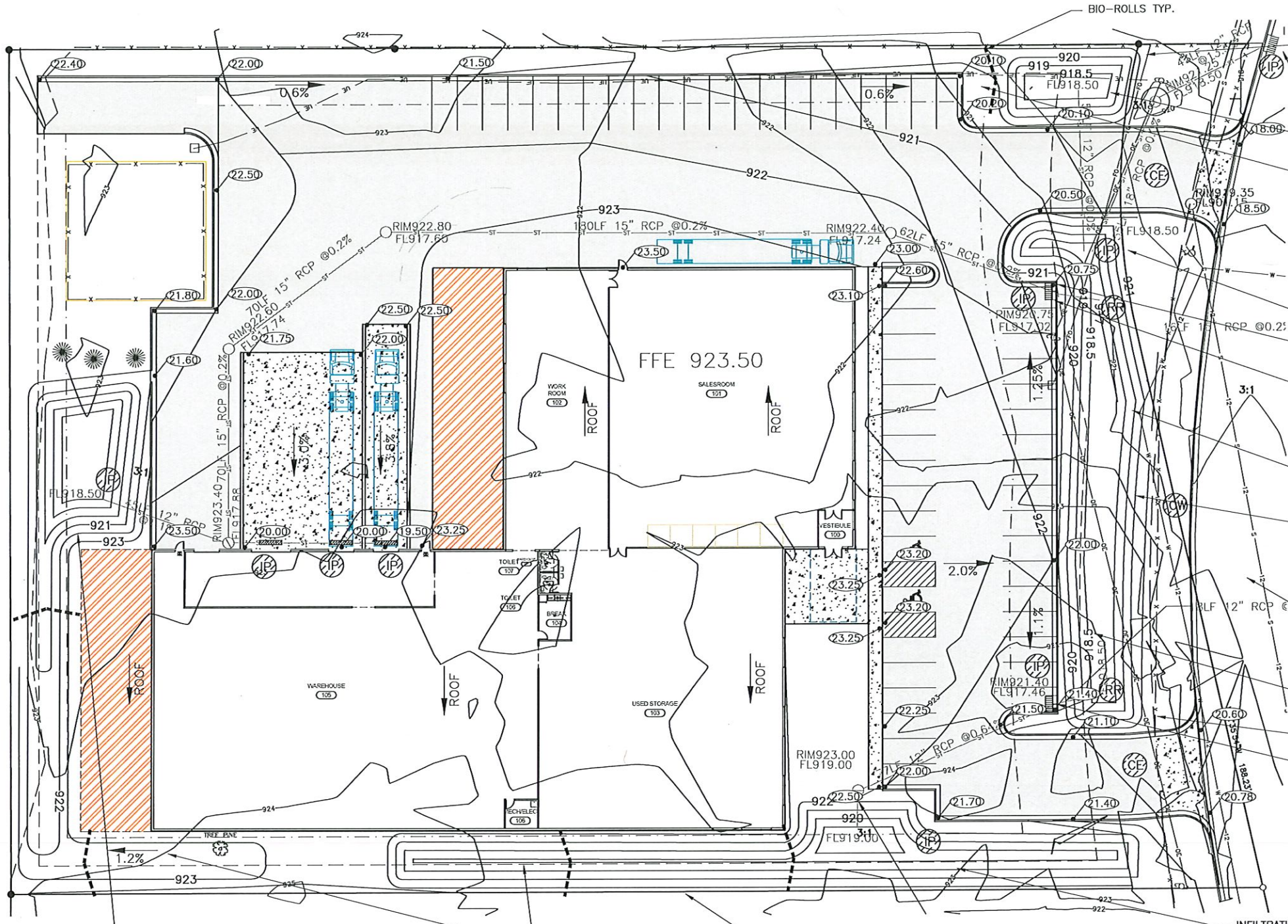
	RWMWD Boundary
	WMU
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits
	Ramsey Co Parcels



20-38

Special Provisions

1. The applicant shall submit the escrow fee of \$13,350.



EMERGENCY OVERFLOW ELEV.=921.0
 CONNECT STR. 1 OUTLET TO EXISTING CURB INLET IN LABORE DRIVE-COMPLY W/ ALL CITY/COUNTY PERMITS
 INFILTRATION BASIN/FOREBAY
 CURB CUT W/ GRASS PRETREATMENT
 NOTE:
 THE SPECIFIED EROSION & SEDIMENT CONTROL PRACTICES ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING COURSE OF CONSTRUCTION
 EMERGENCY OVERFLOW ELEV.=921.0
 EMERGENCY OVERFLOW ELEV.=921.25
 3' SUMP PRETREATMENT
 INFILTRATION BASIN-SEE DETAIL
 PROPOSED ELEVATION CONTOUR TYP.
 PROPOSED PAVEMENT/GUTTER SPOT ELEV. TYP.
 NOTE: ANY TRACKING OF MATERIAL ONTO LABORE ROAD SHALL BE IMMEDIATELY REMOVED VIA STREET SWEEPING OR OTHER APPROVED METHODS.
 REVISION #1 10/20/2020
 RAISE BASIN BOTTOM TO ELEV. 918.50
 SILT FENCE TYP.
 EMERGENCY OVERFLOW ELEV.=921.90
 GRADING LIMITS CORRESPOND TO PROPOSED CONTOUR LIMITS UNLESS NOTED OTHERWISE.

REVISION #1 10/21/2020
 TOTAL DISCHARGE SUMMARY

EXTG. 2 YEAR:	0.32 CFS
PROPOSED 2 YEAR:	0.03 CFS
EXTG. 10 YEAR:	2.44 CFS
PROPOSED 10 YEAR:	1.21 CFS
EXTG. 100 YEAR:	10.06 CFS
PROPOSED 100 YEAR:	4.50 CFS

LOT COVERAGE SUMMARY

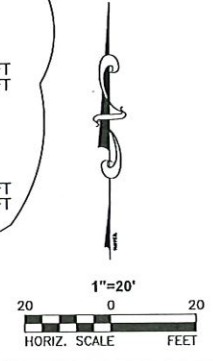
LOT AREA:	2.67 ACRES
IMPERVIOUS AREA:	1.85 ACRES (69.2%)
GREEN AREA:	0.82 ACRES (30.8%)
PARKING AREA:	21,000 SQ. FT.
PARKING LOT PLANTING AREAS:	850 SQ. FT. (4%)

SWPPP LEGEND/QUANTITIES

	= ROCK CONSTRUCTION ENTRANCE	2 EA
	= INLET PROTECTION-TYP. AT ALL DOWNGRADIENT INLETS	9 EA
	= SILT FENCE-FOR PERIMETER CONTROL	600 LF
	= HYDRO-SEEDING TYPE LAWN OVER 6" MIN. BLACK DIRT TOPSOIL TYP. TO ALL NON-PAVED & LANDSCAPE AREAS	0.25 ACRES
	= DESIGNATED CONCRETE WASHOUT AREA-SEE SWPPP NARRATIVE FOR CONTAINMENT/DISPOSAL REQUIREMENTS	1 EA
	= CATEGORY 3 EROSION BLANKET-TYP. TO 4:1 OR STEEPER SLOPES	0.75 ACRES
	= WOOD CHIP BIO-ROLL	100 LF
	= CLASS III RIPRAP WITH GEO-FABRIC	8 CY

1.1" WATER QUALITY (INFILTRATION BASIN) SUMMARY

	W-1/EAST BASIN	W-2/WEST BASIN	W-3/SOUTH BASIN
2 YEAR:			
DESIGN PEAK HIGH WATER ELEVATION:	919.83	919.83	920.17
REQUIRED WATER QUALITY VOLUME:	0.1265 AC-FT	0.052 AC-FT	0.043 AC-FT
PROPOSED WATER QUALITY (INFILTRATED) VOLUME:	0.162 AC-FT	0.052 AC-FT	0.071 AC-FT
10 YEAR:			
DESIGN PEAK HIGH WATER ELEVATION:	920.20	920.21	920.83
REQUIRED WATER QUALITY VOLUME:	0.1265 AC-FT	0.052 AC-FT	0.043 AC-FT
PROPOSED WATER QUALITY (INFILTRATED) VOLUME:	0.162 AC-FT	0.052 AC-FT	0.071 AC-FT
100 YEAR:			
DESIGN PEAK HIGH WATER ELEVATION:	920.97	921.49	921.49
REQUIRED WATER QUALITY VOLUME:	0.1265 AC-FT	0.052 AC-FT	0.043 AC-FT
PROPOSED WATER QUALITY (INFILTRATED) VOLUME:	0.162 AC-FT	0.052 AC-FT	0.071 AC-FT



1. 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.
 JONES HAUGHT SMITH
 CIVIL ENGINEERS
 515 South Washington Ave. Albert Lea, MN 56737-4876
 Reg. No. 42744
 Date: 4/20/20

SOS FURNITURE
 VADNAIS HEIGHTS,
 MN

Project: GRADING/ SWPP PLAN
 Revision: 10/22/20
 No.: 4/30/20
 Drawn: bj
 Checked:
 Project Manager:
 Project Status: CD
 Sheet Title:
 Sheet No.: C5

Permit Application Coversheet

Date November 04, 2020

Project Name Atomic Architectural Sheet Metal

Project Number 20-40

Applicant Name Jay Andrews, Atomic Architectural Sheet Metal

Type of Development Industrial

Property Description

This project is located at 3235 Labore Road, northeast of I-35E and I-694 in the City of Vadnais Heights. The applicant is proposing to construct a warehouse with associated parking. The total site area is 1.2 acres. An underground filtration system is proposed to meet volume reduction requirements. Rate control was partially provided for in a previous permit (#02-52) as part of a common plan of development. The applicant has submitted updated calculations to verify that the proposed design meets rate control requirements with the new development.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map
- Project Grading Plan

#20-40 Atomic Architectural Sheet Metal

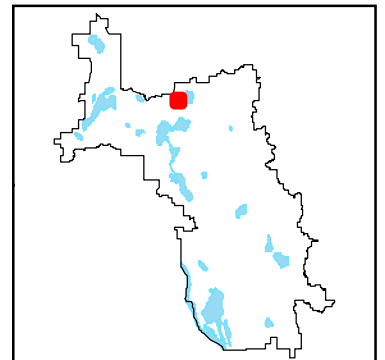
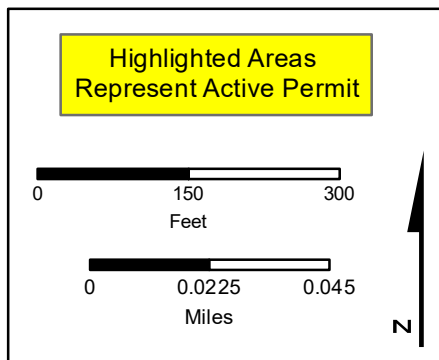


Copyright nearmap 2015

Wetlands

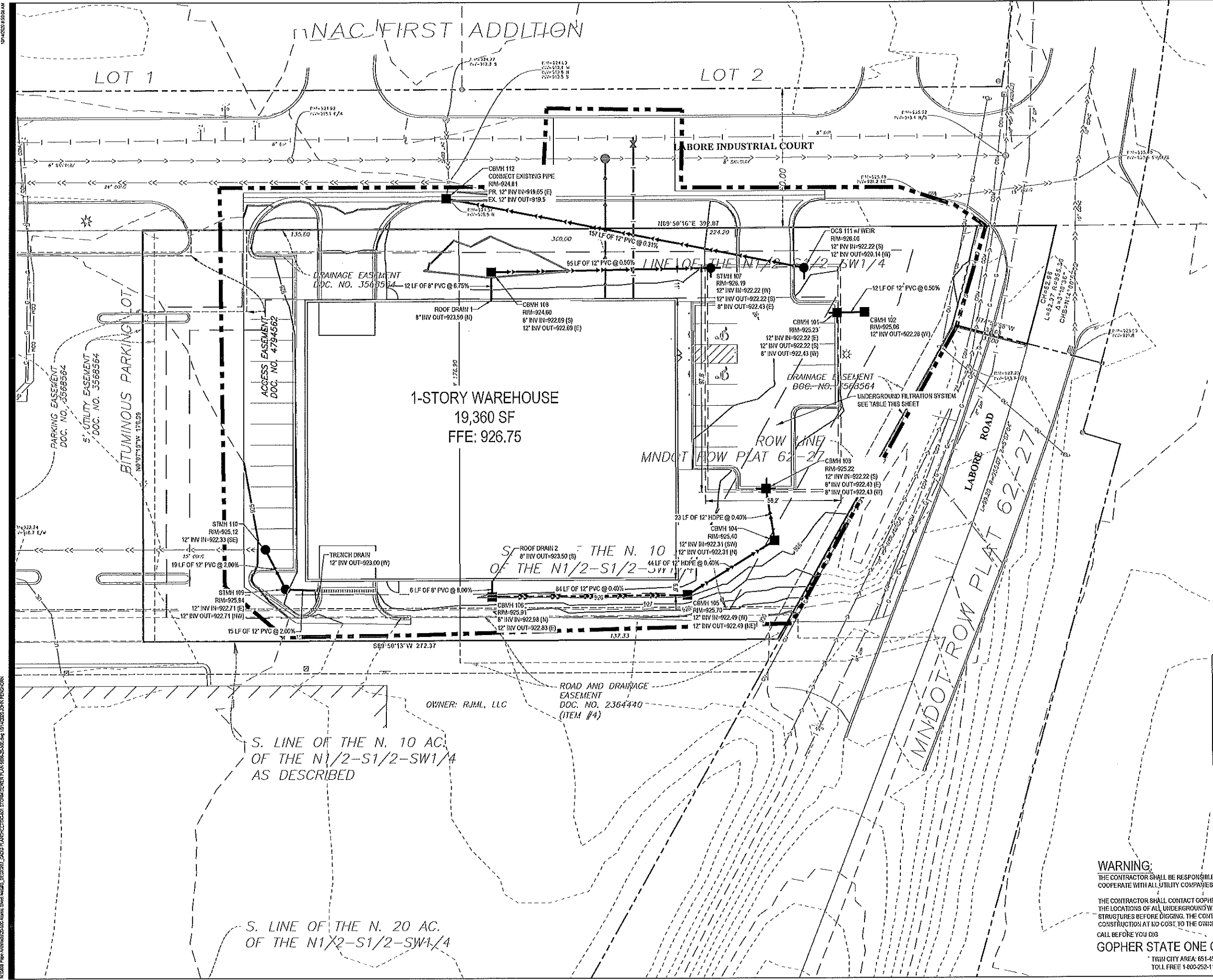
■	Manage A
■	Manage B
■	Manage C
■	Lake
■	Sediment Pond
■	Not Assessed

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

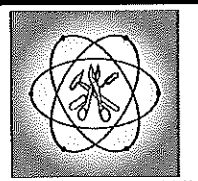


Special Provisions

1. The applicant shall submit the final, signed plans set.
2. The applicant shall submit the executed stormwater maintenance agreement.
3. The applicant shall submit a site-specific figure for the draft Best Management Practice (BMP) Operations & Maintenance Plan that shows access and cleanout locations.
4. The applicant shall submit 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 coverage for the project.

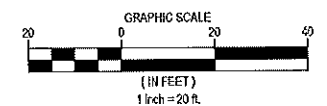
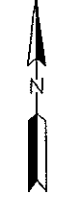


POPE ARCHITECTS
 POPE ARCHITECTS, INC.
 1295 BANDANA BLVD N, SUITE 200
 ST. PAUL, MN 55108-2735
 (651) 642-9200 | FAX (651) 642-1300
 www.popearch.com



ATOMIC ARCHITECTURAL SHEET METAL-NEW PRODUCTION FACILITY VADNAIS HEIGHTS MINNESOTA

NOT FOR CONSTRUCTION



LEGEND

- PROPERTY BOUNDARY
- - - LOT LINE
- - - EASEMENT LINE
- - - SETBACK LINE
- - - RIGHT OF WAY LINE
- - - EXISTING EASEMENT LINE
- - - EXISTING PROPERTY LINE
- - - 901 EXISTING MINOR CONTOUR
- - - 900 EXISTING MAJOR CONTOUR
- - - 501 PROPOSED MINOR CONTOUR
- - - 600 PROPOSED MAJOR CONTOUR
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- STORM MANHOLE
- STORM CATCH BASIN
- GATE VALVE
- SANITARY MANHOLE

NOTES

- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
- UNDERGROUND FILTRATION SYSTEM TO BE WRAPPED IN 3 LAYERS:
 - LAYER 1: 8 OZ. GEOTEXTILE FABRIC
 - LAYER 2: 40# ML HDPE LINER
 - LAYER 3: 6 OZ. GEOTEXTILE FABRIC
- LINER TO BE IMPERMEABLE HDPE WATERTIGHT LINING OR APPROVED EQUAL. SYSTEM TO BE INSTALLED WITH DRAINTILE ABOVE LINER. TO BE PROVIDED BY INSTALLING CONTRACTOR.
- NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976 AT LEAST 48 HOURS PRIOR TO THE CONSTRUCTION OF ANY VOLUME REDUCTION BMP'S.
- NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 612-792-7976 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.

UNDERGROUND FILTRATION SYSTEM	
IMPERMEABLE LINER / BOTTOM OF SAND FILTER MEDIA	920.14'
TOP OF SAND FILTER MEDIA / BOTTOM OF STONE	921.64'
TOP OF STONE / BOTTOM OF CHAMBER	922.14'
TOP OF CHAMBER / BOTTOM OF COVER STONE	923.47'
TOP OF COVER STONE	923.97'
H.W.L.	923.76'
WATER QUALITY DEPTH	1.68'
WATER QUALITY VOLUME	5691 CF

WARNING:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.
 THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
 CALL BEFORE YOU DIG
GOPHER STATE ONE CALL
 TWIN CITY AREA: 651-454-0002
 TOLL FREE: 1-800-252-1168

NOT FOR CONSTRUCTION

DATE	DESCRIPTION
09/24/2020	CITY SUBMITTAL
10/14/2020	WATERSHED SUBMITTAL

DATE	DESCRIPTION
5698-20-590	JTP
JRA	JRA

STORM SEWER PLAN
C-501

Consent Agenda Action Item

Board Meeting Date: September 2, 2020

Agenda Item No: 3D

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 2 for the East St. Paul Target Store Retrofit

Background:

Attached is change order number 2 for the East St. Paul Target Store Stormwater Retrofit project. The change order includes the following items:

- Adjustment to the substantial completion date from October 31 to November 15
 - Additional (private) utility work in the tree trench (existing drain tile and irrigation line) that were not located during the utility locate
 - Repairs to an existing manhole structure that our project ties into
 - Extra pavement removal and replacement (includes a change in unit bid price for the pavement removal and saw cutting, since the pavement depth is much thicker than the expected 4 inches)
-

Applicable District Goal and Action Item:

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

Action Item: Implement retrofit water quality improvement projects.

Staff Recommendation:

Approve Change Order No. 2.

Financial Implications:

This change order increases the contract price by \$29,107.52. The project budget includes contingency that will cover this change order amount.

Board Action Requested:

Approve Change Order No. 2.

**Change Order No. 2
Ramsey-Washington Metro Watershed District
East St. Paul Target Retail Store Stormwater Retrofits**

DATE OF ISSUANCE: October 29, 2020

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

Contractor: Sunram Construction, Inc.
20010 75th Avenue North
Corcoran, MN 55340
Attn: Ryan Sunram

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

C.O.2.A Utility work in the tree trench

Description of Change:

Unmarked, existing utilities in the tree trench required the Contractor to do additional work.

- Unmarked draintile were repaired and connected to the proposed stormsewer in the tree trench.
- Unmarked irrigation line was repaired in the tree trench.

Bid Form and Base Bid:

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
C.O.2.a	Draintile connections and irrigation line repairs in the tree trench	LS	1	\$1,675.00	\$1,675.00

C.O.2.B Repairs to top of existing storm structure.

Description of Change:

The existing storm structure where the tree trench downstream connection was made had severely deteriorated existing rings. The existing rings were removed and replaced with a new precast concrete manhole top. The casting and cover were salvaged and replaced.

Bid Form and Base Bid:

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
C.O.2.b	Repairs to top of existing storm structure	LS	1	\$900.00	\$900.00

C.O.2.C Contract Completion Extensions

Description of Change:

Due to delays beyond the control of the Contractor; the work could not be completed within the contract time. The Owner is extending the substantial completion date in the contract from October 31, 2020 to November 15, 2020.

C.O.2.D Change in unit price of pavement removal and sawcutting work and additional pavement removal, sawcutting, and paving work.

Description of Change:

This Contractor unit price for sawcutting and removal of existing pavement was based on an existing pavement depth of 4 inches that was listed in the Contract Documents. The existing pavement depth is 8 inches, so the unit prices will be higher than what was included in the original bid. It decreased the quantities of following bid item: Common Excavation.

To avoid a parking lot grade steeper than 5% adjacent to the tree trench trench drain, additional pavement was removed and replaced. This increased the quantities of the following bid items from the estimated quantities: sawcutting, pavement removal, Class 5 removal and salvage, Class 5 placement, and paving.

Bid Form and Base Bid:

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
K	Sawcut Bituminous Pavement (Full Depth) (P)	LF	1,970	\$2.75	\$5,417.50

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
K	Sawcut Bituminous Pavement (Full Depth) (P)	LF	2,275	\$4.13	\$9,395.75

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
M	Remove and Dispose of 4 inch Bituminous Pavement (P)	SY	2,330	\$2.85	\$6,640.50

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
M	Remove and Dispose of 8 inch Bituminous Pavement (P)	SY	2,976	\$5.70	\$15,963.20

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
N	Remove and Salvage Class 5 Aggregate (P)	CY	329	\$6.75	\$2,220.75

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
N	Remove and Salvage Class 5 Aggregate (P)	CY	407	\$6.75	\$2,747.25

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
S	Common Excavation (P)	CY	1,780	\$14.65	\$26,077.00

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
S	Common Excavation (P)	CY	1,521	\$14.65	\$22,282.65

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
V	Replace Salvaged Class 5 Aggregate Base (P)	CY	240	\$21.75	\$5,220.00

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
V	Replace Salvaged Class 5 Aggregate Base (P)	CY	318	\$21.75	\$6,916.50

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
Z	Bituminous Base Course 2.5 inch thick (P)	SY	1,435	\$16.80	\$24,108.00

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
Z	Bituminous Base Course 2.5 inch thick (P)	SY	1,901	\$16.80	\$31,936.80

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
AA	Bituminous Wearing Course 1.5 inch thick (P)	SY	1,435	\$12.60	\$18,081.00

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
AA	Bituminous Wearing Course 1.5 inch thick (P)	SY	1,901	\$12.60	\$23,952.60

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
BB	Tack Coat (P)	SY	1,435	\$0.22	\$315.70

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
BB	Tack Coat (P)	SY	1,901	\$0.22	\$418.22

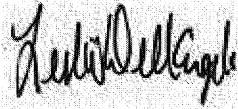
Change in Contract Time:

Substantial Completion Date is revised to be November 15, 2020.

Total Impact on Contract Price:

Additional cost of **\$29,107.52** is anticipated.

This Change Order No. 2 is:



Submitted By:
(ENGINEER)

Leslie DellAngelo, Project Engineer
Barr Engineering Company

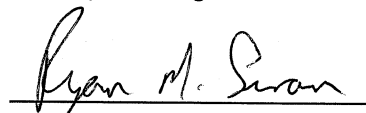
Date: October 29, 2020

Authorized By:
(OWNER)

Marj Ebensteiner, President
Ramsey-Washington Metro Watershed District

Date: _____

Approved By:
(CONTRACTOR)



Ryan Sunram, Project Manager
Sunram Construction, Inc.

Date: 10/29/20

* * * * *

Permit Program

* * * * *

Permit Application Coversheet

Date November 04, 2020

Project Name Midland Terrace Phase 1

Project Number 20-39

Applicant Name Max Segler, Tycon Companies

Type of Development Residential

Property Description

This project is located at 3575 Owasso Street, adjacent to Shoreview Pond. The applicant is proposing to construct a new residential building in place of an existing building. The project also includes associated parking. The total site area is 1.73 acres with a proposed decrease in impervious area over existing conditions. An underground filtration system is proposed to meet stormwater treatment requirements. A wetland boundary was delineated onsite and approved on 10/26/20 (#20-18 WCA). The applicant has included a variance request for temporary wetland buffer impacts in order to place silt fence during the demolition phase of the project. Any damaged buffer areas will be restored.

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

There are no water quantity considerations.

Water Quality Considerations

Short Term

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

Long Term

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

Staff Recommendation

Staff recommends approval of this permit with the special provisions and variance request (Rule E).

Attachments:

- Project Location Map
- Project Grading Plan

#20-39 Midland Terrace Phase 1

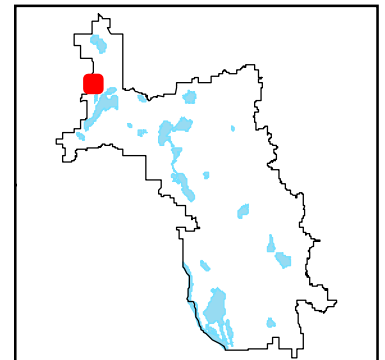
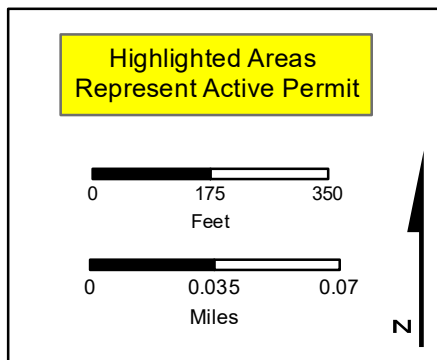


Copyright nearmap 2015

Note: Shaded area is outside RWMWD

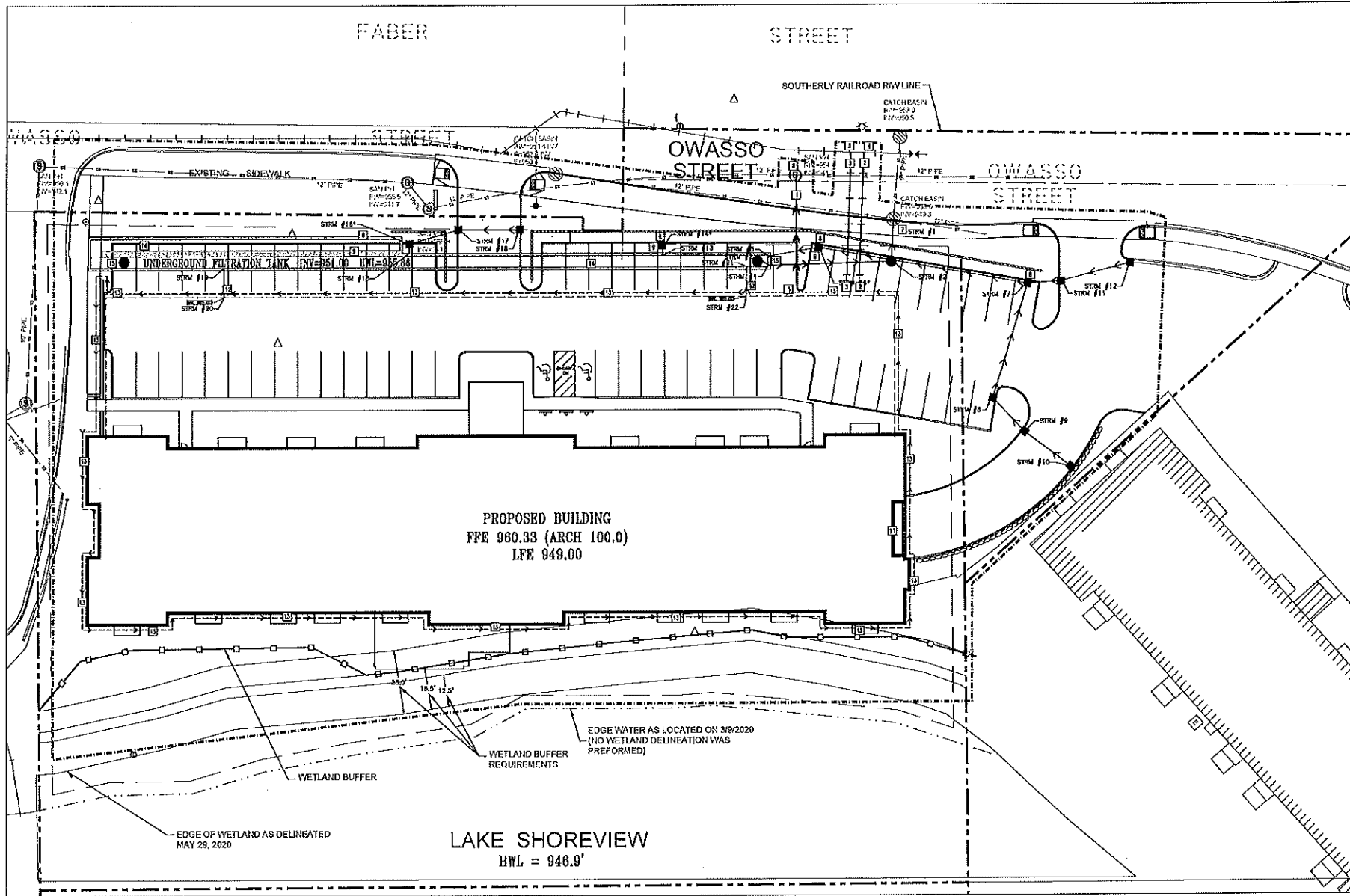
Wetlands	
■	Manage A
■	Manage B
■	Manage C
■	Lake
■	Sediment Pond
■	Not Assessed

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



Special Provisions

1. The applicant shall submit the escrow fee of \$8,650.
2. The applicant shall submit the final, signed plans set.
3. The applicant shall submit an executed stormwater maintenance agreement.
4. The applicant shall submit 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 Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



1 UTILITY PLAN
C300 1"=20'

WETLAND BUFFER REQUIREMENTS:
CITY - 16.5 FT. MINIMUM
WATERSHED - 12.5 FT. MINIMUM
25 FT. WEDGE

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	VERTICAL CASTING TYPE	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE	
STRM #1	EXISTING CB	NA	953.77	S = 0.19, 30' 17' L.F. OF 12" RCP @ 1.21%, STRM #2	
STRM #2	48" MH	R-1253	950.05 N = 949.50 W = 949.50	48' L.F. OF 15" RCP @ 4.43%, STRM #3 48' L.F. OF 4" PVC @ 0.00%, STRM #4	
STRM #3	UNDERGROUND TANK CONNECTION	NA	E = 954.20		
STRM #4	DRAIN TILE CONNECTION	NA	E = 949.00		
STRM #5	UNDERGROUND TANK CONNECTION	NA	E = 951.00	20' L.F. OF 15" RCP @ 0.30%, STRM #6	
STRM #6	48" SUMP MH	R-3067	957.33 W = 951.08 E = 951.08	83' L.F. OF 15" RCP @ 0.30%, STRM #7	
STRM #7	48" MH	R-3067	955.38 W = 951.31 E = 951.55 E = 951.51	47' L.F. OF 12" RCP @ 0.71%, STRM #8 13' L.F. OF 12" RCP @ 0.38%, STRM #11	
STRM #8	48" MH	R-3067	957.61 N = 955.89 SE = 951.69	18' L.F. OF 12" RCP @ 0.58%, STRM #9	
STRM #9	48" MH	R-3067	956.12 NW = 951.09 SE = 951.43	23' L.F. OF 12" RCP @ 0.58%, STRM #10	
STRM #10	24"x36" CB	R-3067	955.12 NW = 952.12		
STRM #11	48" MH	R-3067	954.65 W = 951.38 E = 951.38	26' L.F. OF 12" RCP @ 0.50%, STRM #12	
STRM #12	27" CB	R-3067	953.82 W = 951.50		

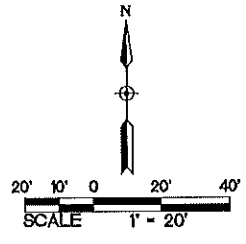
PROPOSED PLAN SYMBOLS

- CONSTRUCTION LIMITS
- PROPERTY LINE
- SANITARY LINE (APPROX.)
- WETLAND BUFFER
- SANITARY SEWER
- WATER PIPE
- STORM SEWER
- DRAIN TILE
- REINFORCING WALL
- GATE VALVE
- CATCH BASIN
- MANHOLE
- SEWER INVERT ELEVATION

ABBREVIATIONS

- BDDO Bulkhead
- BM Bench Mark
- CB Catch Basin
- CONC Concrete
- DP Ductile Iron Pipe
- ELEV Elevation
- EX Existing
- FTE Finished Floor Elevation
- HDP High Density Polyethylene
- IN Invert
- MAX Maximum
- MH Manhole
- MIN Minimum
- PIV Peak Indicator Valve
- PVC Polyvinyl Chloride
- RCP Reinforced Concrete Pipe
- RS Roof Slope

NOTE:
AN AS-BUILT SURVEY OF ALL STORMWATER BASINS (RETENTION BASIN, SUMP CATCH BASIN, DRAINAGE CATCH BASIN, SUMP CATCH BASIN, ETC.) SHALL BE SUBMITTED TO THE WATERSHED DISTRICT PRIOR TO PROJECT CLOSEOUT.



- KEYED NOTES**
- KEYED NOTES ARE DENOTED BY [Symbol] ON PLAN.
 - INSTALL APPROXIMATELY 45-50% FEET OF 8-INCH SCH 40 PVC PIPE AT 2.0% TO INVERT OF 943.2, STUD TO WITHIN 5'-FEET OF PROPOSED BUILDING. COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - STRM 8-INCH PIPE PROTECTION LINE TO WITHIN 6'-FEET OF PROPOSED BUILDING. FOLLOW ALL CITY OF SHOREVIEW STANDARDS AND SPECIFICATIONS.
 - STRM 4-INCH DOMESTIC WATER SERVICE TO WITHIN 5'-FEET OF PROPOSED BUILDING. FOLLOW ALL CITY OF SHOREVIEW STANDARDS AND SPECIFICATIONS.
 - INSTALL 4-INCH WET TAP. FOLLOW ALL CITY OF SHOREVIEW STANDARDS AND SPECIFICATIONS.
 - CONCRETE EXISTING MANHOLE FOR PROPOSED PIPE CONNECTION AT INVERT ELEVATION 943.2. USE RUBBER BOOT SEAL AT PENETRATION. FOLLOW ALL CITY OF SHOREVIEW STANDARDS AND SPECIFICATIONS.
 - COSE DRILL EXISTING CATCH BASIN FOR PROPOSED PIPE CONNECTION AT INVERT ELEVATION 949.3. GROUT SEAL AROUND OPENING. FOLLOW ALL CITY OF SHOREVIEW STANDARDS AND SPECIFICATIONS.
 - INSTALL DRAIN TILE AT LOW POINT CATCH BASINS. REFER TO DETAIL 8/C500.
 - INSTALL SUMP CATCH BASIN WITH SUMP, ENVIRODOD, OR APPROVED EQUAL. REFER TO DETAIL 7/C500.
 - INSTALL TRENCH DRAIN. REFER TO DETAIL 2/C501.
 - CONNECT PROPOSED TRENCH DRAIN TO BUILDING AT INVERT ELEVATION OF 947.50. COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - LOCATION OF PROPOSED ROOF DRAIN LEAD. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - INSTALL PERIMETER DRAIN TILE. REFER TO DETAIL 8/C501. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF CONNECTION TO BUILDING SUMP WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. PROVIDE SOLID PIPE AND WATER TIGHT CONNECTIONS TO 10'-FEET OF EITHER SIDE OF ALL WATER CROSSINGS PER AN PLUMBING CODE.
 - INSTALL FILLERION SYSTEM PER DETAIL 1/C500. INFILTRATION SYSTEM SHALL HAVE A FILLERION VOLUME OF 8.825 CUBIC FEET. A TOTAL VOLUME OF 15,071 CUBIC FEET, AND MEET THE RATE CONTROL REQUIREMENTS INDICATED ON SHEET C500. SYSTEM FOOTPRINT IS BASED ON 6" PIPING DESIGN. ANY ALTERNATE DESIGN MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING TO MANAGE TRAFFIC OVER THE TOP OF THE INSTALLED SYSTEM. MINIMUM COVER OVER THE TOP OF THE PIPE IS 24-INCHES FOR HS-20 TRAFFIC LOADS.
 - UNDERGROUND TANK INSPECTION/CLEANOUT LOCATION.

- UTILITY NOTES:**
- COORDINATE SERVICE CONNECTION LOCATIONS AT THE BUILDING WITH THE MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UNCOORDINATED WORK.
 - COORDINATE UTILITY INSTALLATION WITH STRUCTURAL PRIOR TO START OF CONSTRUCTION. UTILITIES SHALL NOT BE INSTALLED WITHIN THE ZONE OF INFLUENCE OF ANY STRUCTURAL ELEMENTS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR UNCOORDINATED WORK.
 - ALL SEWER SERVICE CONNECTIONS WITH LESS THAN 5 FEET OF COVER OVER THE TOP OF PIPE SHALL BE INSULATED. INSULATION SHALL BE INSTALLED FROM THE CONNECTION OF THE SERVICE AT THE BUILDING TO THE POINT WHICH THE SERVICE ATTAINS 5 FEET OF COVER. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ARCHITECT OR ENGINEER PRIOR TO INSTALLATION OF INSULATION.
 - PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED TO BE REMOVED.
 - ALL SEWER AND WATER CROSSINGS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 1.5 FEET AND HORIZONTAL SEPARATION OF 10 FEET. FOLLOW ALL HEALTH DEPARTMENT AND CITY OF SHOREVIEW AND PLYMOUTH COUNTY STANDARDS.
 - ALL WATER MAINS SHALL BE DUCTILE IRON PIPE CLASS 52, UNLESS NOTED OTHERWISE.
 - ALL WATER MAINS SHALL HAVE A MINIMUM DEPTH OF COVER OF 7.5 FEET EXCEPT TOP OF WATER MAIN.
 - PROVIDE THURLET BLOTTING ON ALL WATER MAIN PER CITY OF SHOREVIEW. PROVIDE MECHANICAL JOINT RESTRAINTS ON ALL BENDS, VALVES, TEES, PLUGS AND HYDRANT LEADS.
 - SANITARY SEWER PIPING SHALL BE SCH 40 PVC UNLESS NOTED OTHERWISE.
 - STORM SEWER PIPING SHALL BE RCP, UNLESS NOTED OTHERWISE. ALL STORM SEWER PIPE THAT IS EXTENDED TO THE BUILDING FOR ROOF DRAIN SERVICES IS TO BE SCHEDULE 40 PVC PIPE AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D2684 (ASTM D2685 FOR SCHEDULE 40).
 - CONTRACTORS SHALL COORDINATE ALL WORK WITH GAS, ELECTRIC, TELEVISION AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
 - WHERE PROPOSED GRADE OVER EXISTING SHALL UTILITIES IS PROPOSED TO BE LOWERED, CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR THE LOWERING OF THE EXISTING UTILITY TO PROVIDE THE MINIMUM COVER REQUIRED.
 - ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10'-FEET OF THE BUILDING OR WATER SERVICE LINE SHALL BE TESTED BY ACCORDANCE WITH AN PLUMBING CODE.
 - ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GAS TIGHT OR WATER TIGHT IN ACCORDANCE TO AN PLUMBING CODE. APPROVED PERMANT FIBER JOINTS MUST BE USED TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES, TRENCH BASINS, AND OTHER STRUCTURES. RESIDENT WATER STOP GROUING RINGS ARE AN ACCEPTABLE ALTERNATIVE. CLIENT MONITOR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.
 - CONTRACTOR TO NOTIFY NODDY SODENSHAM WITH THE PLYMOUTH-WASHINGTON METRO WATERSHED DISTRICT AT 651-792-7976 AT LEAST 48 HOURS PRIOR TO THE CONSTRUCTION OF THE UNDERGROUND FILLERION SYSTEM.

STORM SEWER TABLE					
STRUCTURE ID	STRUCTURE DIMENSION (INCHES)	VERTICAL CASTING TYPE	INVERT ELEVATION(S)	PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE	
STRM #13	UNDERGROUND TANK CONNECTION	NA	N = 953.56	4' L.F. OF 12" RCP @ 1.00%, STRM #14	
STRM #14	48" SUMP MH	R-3067	957.16 S = 953.56		
STRM #15	UNDERGROUND TANK CONNECTION	NA	N = 951.83	4' L.F. OF 15" RCP @ 1.00%, STRM #16	
STRM #16	48" SUMP MH	R-3067	957.25 S = 951.87 E = 951.87	20' L.F. OF 15" RCP @ 2.00%, STRM #17	
STRM #17	48" MH	R-3067	958.00 W = 952.27 E = 952.52	24' L.F. OF 12" RCP @ 2.00%, STRM #18	
STRM #18	24"x36" CB	R-3067	958.00 W = 953.00		
STRM #19	UNDERGROUND TANK CONNECTION	NA	S = 952.00	12' L.F. OF 12" PVC @ 2.60%, STRM #20	
STRM #20	ROOF DRAIN CONNECTION	NA	N = 952.30		
STRM #21	UNDERGROUND TANK CONNECTION	NA	S = 952.00	12' L.F. OF 12" PVC @ 2.50%, STRM #22	
STRM #22	ROOF DRAIN CONNECTION	NA	N = 952.30		

* INDICATES STRUCTURE WITH SUMP

THE TETCON COMPANIES
Midland Phase I
Shoreview, MN

URBANWORKS

CONSULTANT
BKBK
BKBK CONSULTANTS, INC.
10000 University Ave. S.
Suite 200
Bloomington, MN 55425
Phone: 612-835-1100
Fax: 612-835-1101

PRELIMINARY
NOT FOR CONSTRUCTION

WATERSHED RESUBMITTAL
10/21/2020

REVISIONS

DATE 10/21/2020
PROJECT # 20-008
PHASE ED
DRAWN BY A.S.R.
CHECKED BY K.M.

UTILITY PLAN



Date 10/21/2020

Ramsey-Washington Metro Watershed District
2655 Noel Dr
Little Canada, MN 55117

Project: Midland Terrace Phase I

Purpose:

The intent of this letter is to request a variance on Rule E of the Ramsey-Washington Metro Watershed Districts rules.

Existing Conditions:

The project location is southeast of the intersection of Owasso Street and Victoria St. N in Shoreview MN. The current site consists of an apartment building, garage, parking lot, and associated utilities. There are currently no stormwater management BMP's on site.

Proposed Conditions:

The proposed site will be reconstructed to include a new apartment building with underground parking, surface parking, new utilities, and an on-site underground filtration system for stormwater management.

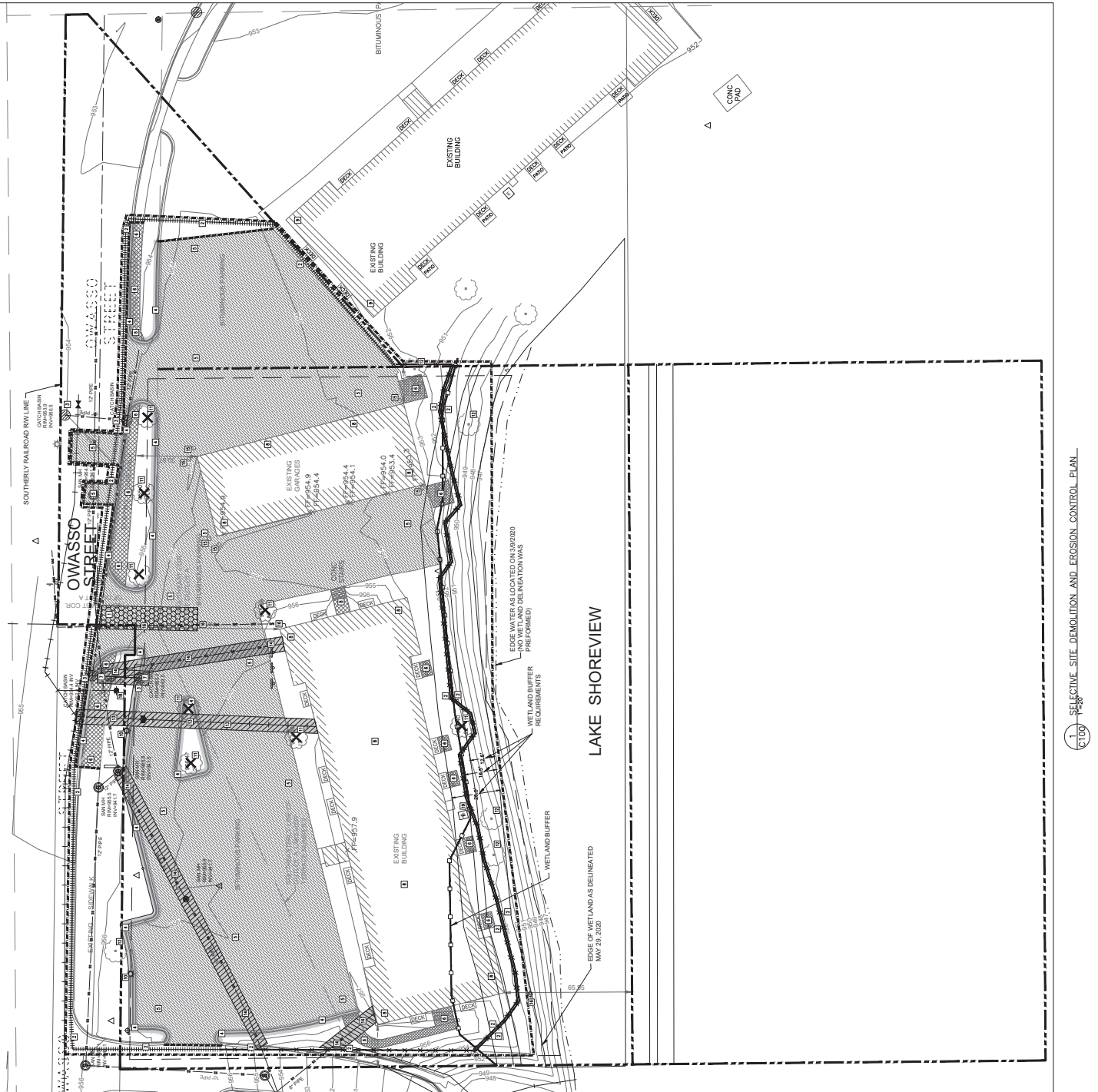
Reason for Variance:

The existing building falls within the footprint of the newly delineated wetland buffer. In order to demolish the existing building, concrete patios, garbage pad, and tree the wetland buffer will need to be impacted. A double layer of erosion control fence will be placed within the wetland buffer to prevent any pollution or sediment from entering the wetland to the south of the property.

Conditions:

The erosion control devices shall stay in place for a period of no more than three months while demolition is performed and the area within the buffer has been graded back to existing conditions. The devices shall stay in place until the buffer has been vegetated with native species approved by the district. After vegetation has occurred, the erosion control devices will be removed and replaced with a new double layer of silt fence outside of the wetland buffer. The proposed building and associated structures will not impede the proposed wetland buffer.

SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN

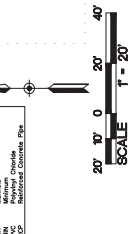


PROPOSED PLAN SYMBOLS

CONSTRUCTION LIMITS
 DEMOLITION FENCE
 EXISTING FOUNDATION LOG
 PROPERTY LINE
 SHOOT LINE (APPROX.)
 WETLAND BUFFER
 EROSION CONTROL
 DEMOLITION
 BITUMINOUS REMOVAL
 CONCRETE REMOVAL
 CURB REMOVAL
 TREE REMOVAL

ABBREVIATIONS

MW - Main Work
 CM - Civil
 ELEV - Elevation
 FTE - Framed Footing
 M - Manhole
 MW - Manhole
 P - Pit
 PS - Proposed Structure Pits



URBANWORKS

CONSULTANT
URBANWORKS
1515 F STREET, N.W.
WASHINGTON, D.C. 20004
TEL: 202 338-5555
WWW.URBANWORKS.COM

PRELIMINARY
NOT FOR
CONSTRUCTION

WETLAND DEMONSTRATION
10/23/2020

PERIODS

DATE REVISIONS
PROJECT #
DATE DRAWN BY
CHECKED BY
SCALE

SELECTIVE
SITE
DEMOLITION
AND EROSION
CONTROL
PLAN

GENERAL NOTES:

1. CONSTRUCTION OF DEMOLITION BOUNDARIES, AND UTILITY REMOVAL LINES ARE TO BE COORDINATED WITH THE UTILITY ENGINEER AND NEIGHBORING PROPERTY OWNERS.
2. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN WHILE WORKING WITHIN THE RIGHT-OF-WAY.
3. CONSTRUCTION SHALL NOT BEGIN UNTIL THE PERMITS AND NEIGHBORING PROPERTY OWNERS HAVE BEEN ADVISED.
4. THE CONTRACTOR SHALL OBTAIN AND MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
5. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE FOR THE CONSTRUCTION OF EROSION CONTROL.
6. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE FOR THE CONSTRUCTION OF EROSION CONTROL.
7. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE FOR THE CONSTRUCTION OF EROSION CONTROL.
8. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE FOR THE CONSTRUCTION OF EROSION CONTROL.
9. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE FOR THE CONSTRUCTION OF EROSION CONTROL.
10. ALL WORK IN THE PUBLIC RIGHT-OF-WAY IS TO BE COORDINATED WITH THE CITY OF SHAWNEE, UTILITY DIVISION.
11. REQUIREMENTS FOR THE CONSTRUCTION OF EROSION CONTROL SHALL BE INSTALLED ON SOUTH HALF OF PROPERTY BETWEEN WETLAND AND SHAWNEE.

DEMOLITION AND GENERAL NOTES:

1. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE AND WETLAND COUNTY. REMOVAL SHALL BE COORDINATED WITH THE CITY OF SHAWNEE AND WETLAND COUNTY.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF SHAWNEE, WETLAND COUNTY, AND NEIGHBORING PROPERTY OWNERS.
3. CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF SHAWNEE FOR THE CONSTRUCTION OF EROSION CONTROL.
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SCHEDULE NOTES:

1. ALL NOTES ARE REFERENCED BY REF. TO DRAWING.
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11. REQUIREMENTS FOR THE CONSTRUCTION OF EROSION CONTROL SHALL BE INSTALLED ON SOUTH HALF OF PROPERTY BETWEEN WETLAND AND SHAWNEE.

WETLAND BUFFER REQUIREMENTS:
 CITY - 16.5 FT. WETLAND BUFFER
 WETLANDS - 12.5 FT. WETLAND BUFFER
 WETLANDS - 25 FT. BUFFER

**EDGE OF WETLAND AS DELINEATED
MAY 20, 2020**

**EDGE OF WETLAND AS DELINEATED
MAY 20, 2020**

**EDGE OF WETLAND AS DELINEATED
MAY 20, 2020**

**EDGE OF WETLAND AS DELINEATED
MAY 20, 2020**

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MAY 20, 2020**

**EDGE OF WETLAND AS DELINEATED
MAY 20, 2020**

WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS

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WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS

CONC. PAD

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CONC. PAD

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

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EXISTING BUILDING

EXISTING GARAGES

EXISTING GARAGES

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SOUTHERLY RAILROAD RWLINE

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SOUTHERLY RAILROAD RWLINE

SOUTHERLY RAILROAD RWLINE

LAKE SHOREVIEW

LAKE SHOREVIEW

LAKE SHOREVIEW

LAKE SHOREVIEW

LAKE SHOREVIEW

LAKE SHOREVIEW

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

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EXISTING BUILDING

EXISTING GARAGES

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CONC. PAD

CONC. PAD

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CONC. PAD

WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS

WETLAND BUFFER REQUIREMENTS



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: November 4, 2020

To: Board of Managers and Staff

From: Nicole Soderholm, Permit Coordinator
Mary Fitzgerald, District Inspector

Subject: November Enforcement Action Report

During November 2020:

Number of Violations:	6
Install/Maintain Perimeter Control	2
Install/Maintain Construction Entrance	2
Sweep Streets	1
Stabilize Exposed Soils	1

Activities:

Permitting assistance to private developers and public entities, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration and procedures, final inspections, BMP maintenance and close-out inspections, new permit review with Barr Engineering, pre-submittal meetings, MS4Front meetings, Stewardship Grant Team meeting, BWSR Academy, MS4 meeting with VLAWMO

Project Updates:

20-02 Conway Recreation Athletic Center Fields (St. Paul)

Staff met with contractors onsite on October 22nd to discuss erosion control items and project completion timelines. The site will be inactive and completed in the spring due to unexpected early winter conditions. Permanent stabilization has not been installed throughout the site yet, so temporarily stabilization efforts will be required, including the slopes of the roughly-graded filtration basin. Items to be completed in spring include completion of the seasonal dome building, filtration basin installation of drain tile, filtration media mix, and landscaping. Staff will monitor the site through the winter to ensure there are no erosion or sediment control issues while inactive.

20-10 North St. Paul 7th Ave Reconstruction

Staff conducted a routine inspection on October 12th and discussed site updates with the superintendent. The inspection revealed a few erosion and sediment control maintenance items, but overall the site was compliant. Contractors updated staff that the underground filtration system installation was complete, but redesign work on the filtration basin was still in progress. The site has run into several barriers preventing the filtration basin from working as originally designed. Staff will continue to inspect the site regularly, and will require that the basin be temporarily stabilized again if grading work is delayed.

20-03 Vadnais Sports Center Indoor Turf Facility (Vadnais Heights)

A routine inspection was performed on October 13th by staff. Two items were observed as needing maintenance: restabilizing disturbed soil areas and cleaning up construction debris that has blown away into nearby vegetation. Interior building work continues, paving was in progress, and final landscaping will follow. Staff will continue to inspect the site regularly until it is ready for permit closure.

20-07 John Glenn Middle School Addition (Maplewood)

Staff met with the project's superintendent on October 14th to observe the installation of the site's second underground infiltration system. Staff recommended installing poly or similar material along the slopes of the system to prevent sediment and turbid water from entering the clean rock during the installation process. Staff also conducted a routine inspection while onsite. Staff noted that extensive sweeping would need to be completed by the end of the day, and that all liquid materials should have secondary containment. Staff will continue to inspect the site biweekly.

19-47 Valley Creek – Woodlane Redevelopment (Woodbury)

Staff completed an inspection on October 6th and found that the site appeared to be inactive since the last inspection on September 22nd. Staff spoke with site contacts and discovered that the project will remain incomplete (no buildings) temporarily once retaining wall and signage work is complete. Staff gave a non-compliant report to the permit holder for failing to temporarily stabilize the inactive exposed soils onsite. Staff will be returning to the site on November 6th to inspect the underground filtration system before the partially developed land is signed over to a new tenant.

Permits Closed:

- 15-11 Cherrywood Pointe (Roseville)
- 16-07 Wheaton Woods (Roseville)
- 18-18 I-694 & Rice Street Interchange (Little Canada/Shoreview/Vadnais Heights)
- 19-45 Villages on McKnight Clubhouse (St. Paul)
- 20-04 Caves Century Townhomes (Maplewood)

Permits Approved by Staff:

None

* * * * *

Stewardship Grant Program

* * * * *

Stewardship Grant Program Budget Status Update

November 4, 2020

Homeowner	Coverage	Number of Projects: 39	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	20	\$58,335
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	14	\$80,865
Master Water Steward Project	100% Cost Share \$15,000 Max	3	\$34,915
Shoreland Restoration	100% Cost Share \$15,000 Max	2	\$35,000

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 13	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	2	\$10,200
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$120,000
Priority Area Projects	100% Cost Share \$100,000 Max	6	\$425,000
Non-Priority Area Projects	75% Cost Share \$50,000 Max	2	\$63,000
Public Art	50% Cost Share	0	\$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	2	\$17,900
Maintenance	50% Cost Share \$5,000 Max for 5 Years	41	\$31,500
Consultant Fees			\$77,400
Total Allocated			\$954,115

2020 Stewardship Grant Program Budget	
Budget	\$1,000,000
Total Funds Allocated	\$954,115
Total Available Funds	\$45,885

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: November 4, 2020

Agenda Item No.: 7A

Preparer: Tina Carstens, Administrator

Item Description: 2021 CIP Maintenance and Repair Project Authorization to Finalize Design and Prepare the Bidding Documents and Advertise for Bids.

Background:

Annually, the District completes a project to maintain the existing infrastructure owned and operated by the District, and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their municipal separate storm sewer system (MS4) requirements.

As the 2020 project is being closed out staff are wrapping up the 2021 CIP Maintenance/Repair project preliminary design and are seeking authorization from the board at the November 4 meeting to proceed with the bidding process. Attached are select pages of the plan set. The proposed cost information will be presented at the meeting.

If the board deems it appropriate they should consider a motion that “approves the preliminary design, estimate of probable costs, and expected schedule, and directs the staff to prepare the bidding documents and advertise the project for bid”. Staff will present bids for the work at the December board meeting and a January construction start is expected.

Applicable District Goal and Action Item:

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

Action Items: Maintain District projects and consider opportunities to support the maintenance activities of others.

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 Item: Maintain District flood storage facilities and storm sewer systems.

Staff Recommendation:

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

Financial Implications:

The CIP Maintenance and Repair project is included in the 2021 preliminary budget. Staff will present the engineer's cost estimate for this upcoming project at the meeting.

Board Action Requested:

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

CONTRACT DOCUMENTS

CAPITAL IMPROVEMENT PROJECT MAINTENANCE/REPAIRS 2021 RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

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Form of Agreement	00 52 00-1
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Drawings

- G-01 Site Location and Sheet Index
- G-02 Stormwater Pollution Prevention Plan (SWPPP)
- G-03 Erosion Control Details
- C-01 PFS Basins Paver Cleaning/Sweeping
- C-02 5th Street Wetland Weir Maintenance
- C-03 Tanners Wetland Weir Maintenance & Timber Replacement
- C-04 Gervais Mill Pond Filter Maintenance
- C-05 Lower Afton Road Drainageway Sediment Removal
- C-06 ABI Diversion Weir Repair
- C-07 Bailey's Nursery Storm Sewer Repair
- C-08 Kholman Basin Permeable Weirs Upflow Treatment Cells
- C-09 Willow Pond – CMAC Filtration BMP Drain Pipe Installation
- C-10 Owasso Basin Improvements (Ryan Dr. Road and Culvert Replacement)
- C-11 Owasso Basin Improvements (Perimeter Berm Grading)
- C-12 Owasso Basin Improvements (Channel Cleaning and Grading)
- C-13 Owasso Basin Improvements (Channel Cleaning and Grading)
- C-14 Little Canada – Pond Cleanout
- C-15 North St. Paul – Pond Cleanout and Storm Sewer Upgrades

Appendices

Appendix A: Pond Sediment Core Samples and Test Results

- A.1 PFS Basins
- A.2 Lower Afton Road Drainageway
- A.3 Owasso Basin Channel Cleanout
- A.4 Little Canada Pond Cleanout
- A.5 North St. Paul Pond Cleanout

Appendix B: Erosion Control Inspection Log

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021

AREA REFERENCE

LITTLE CANADA, MINNESOTA

SHEET INDEX

SITE NO. MAINTENANCE AND REPAIRS INDEX

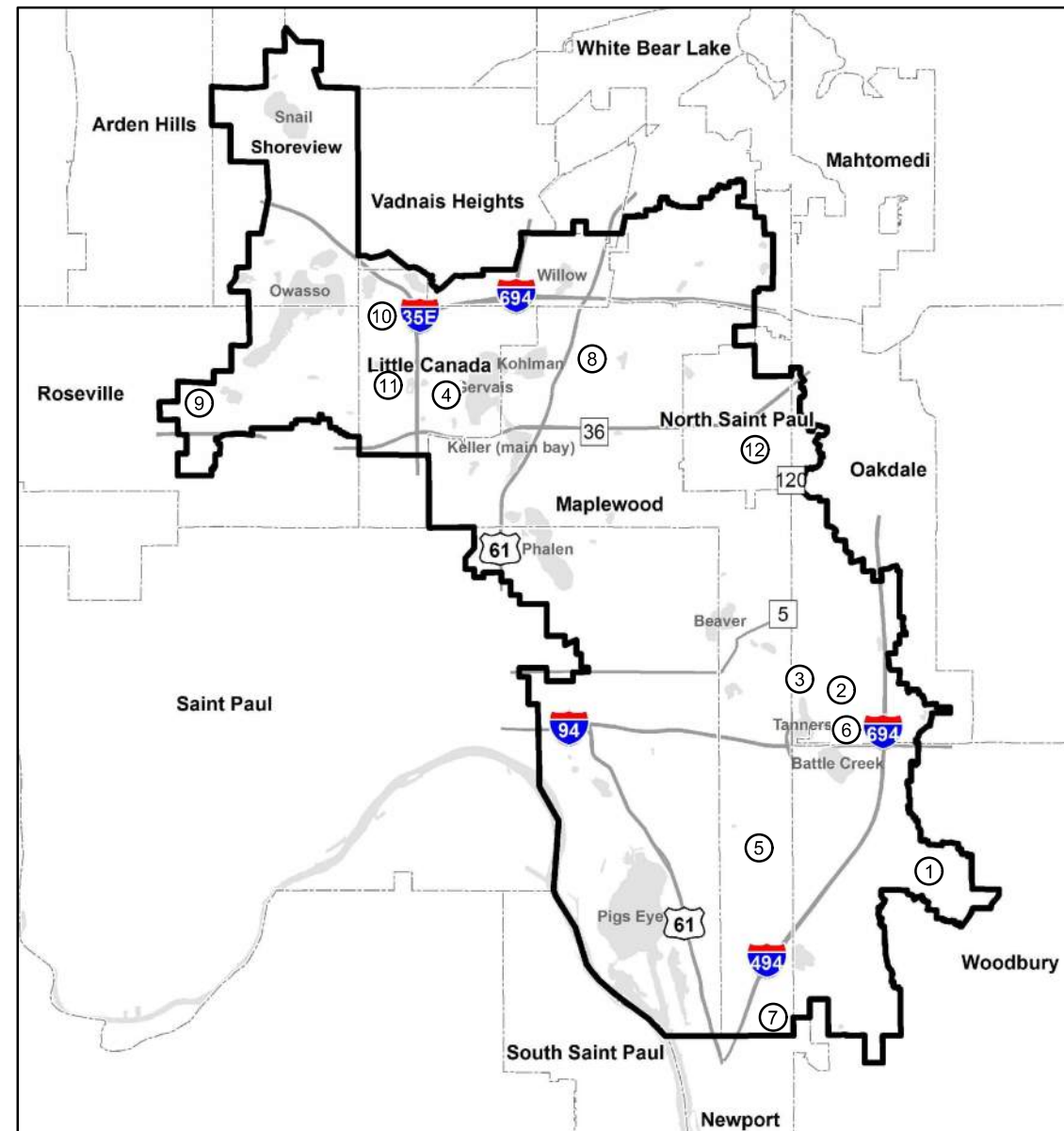
G-GENERAL
C-CIVIL

- ① TAMARACK SWAMP
WOODBURY
- ② 5TH STREET WETLAND
OAKDALE
- ③ TANNERS WETLAND
OAKDALE
- ④ GERVAIS MILL PARK
LITTLE CANADA
- ⑤ LOWER AFTON ROAD
MAPLEWOOD
- ⑥ ABI DIVERSION MANHOLE
OAKDALE
- ⑦ BAILEY NURSERY
NEWPORT
- ⑧ KOHLMAN BASIN
MAPLEWOOD
- ⑨ WILLOW POND
ROSEVILLE
- ⑩ OWASSO BASIN
LITTLE CANADA
- ⑪ ROUND LAKE POND
LITTLE CANADA
- ⑫ MARGARET POND
NORTH SAINT PAUL

SHEET NO.

TITLE

- G-01 SITE LOCATION AND SHEET INDEX
- G-02 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
- G-03 EROSION CONTROL DETAILS
- C-01 PFS BASINS PAVER CLEANING/SWEEPING
- C-02 5TH STREET WETLAND WEIR MAINTENANCE
- C-03 TANNERS WETLAND WEIR MAINTENANCE
- C-04 GERVAIS MILL POND FILTER MAINTENANCE
- C-05 LOWER AFTON ROAD DRAINAGEWAY SEDIMENT REMOVAL
- C-06 ABI DIVERSION WEIR REPAIR
- C-07 BAILEY'S NURSERY STORM SEWER REPAIR
- C-08 KOHLMAN BASIN PERMEABLE WEIRS UPFLOW TREATMENT CELLS
- C-09 WILLOW POND - CMAC DRAIN PIPE INSTALLATION
- C-10 OWASSO BASIN - RYAN DR ROAD AND CULVERT REPLACEMENT
- C-11 OWASSO BASIN - PERIMETER BERM GRADING
- C-12 OWASSO BASIN - CHANNEL CLEANING AND GRADING
- C-13 OWASSO BASIN - CHANNEL CLEANING AND GRADING
- C-14 LITTLE CANADA - POND CLEANOUT
- C-15 NORTH ST. PAUL - POND CLEANOUT AND STORM SEWER UPGRADES



VICINITY MAP 

ISSUED FOR
PROJECT APPROVAL

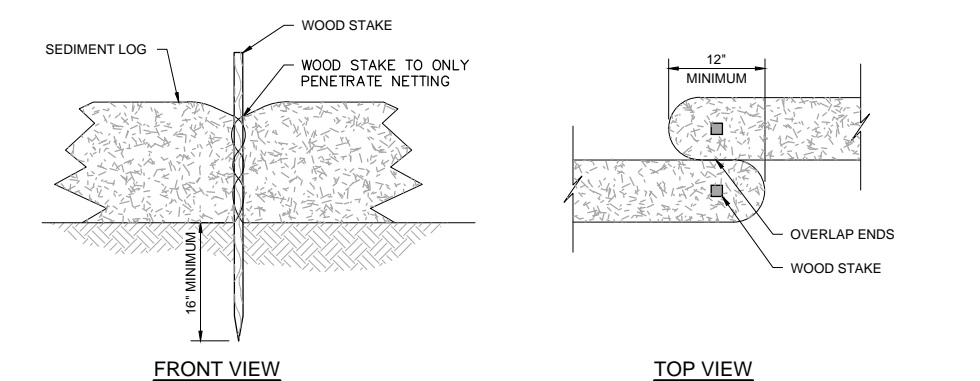
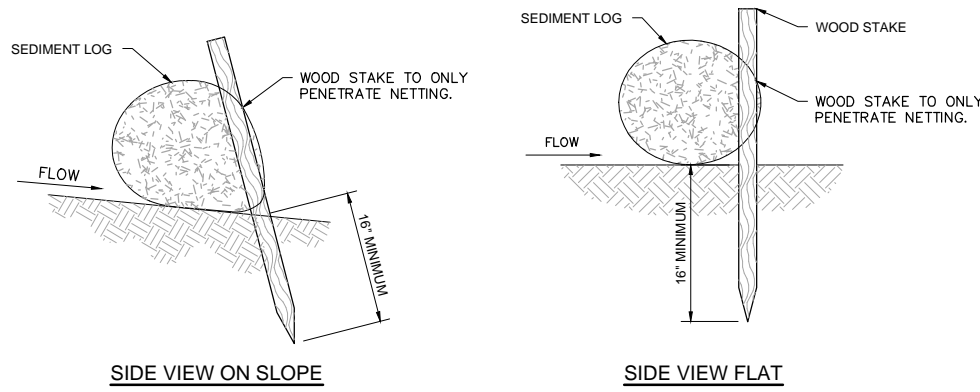


GOPHER STATE ONE CALL:
CALL BEFORE YOU DIG.
1-800-252-1166

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

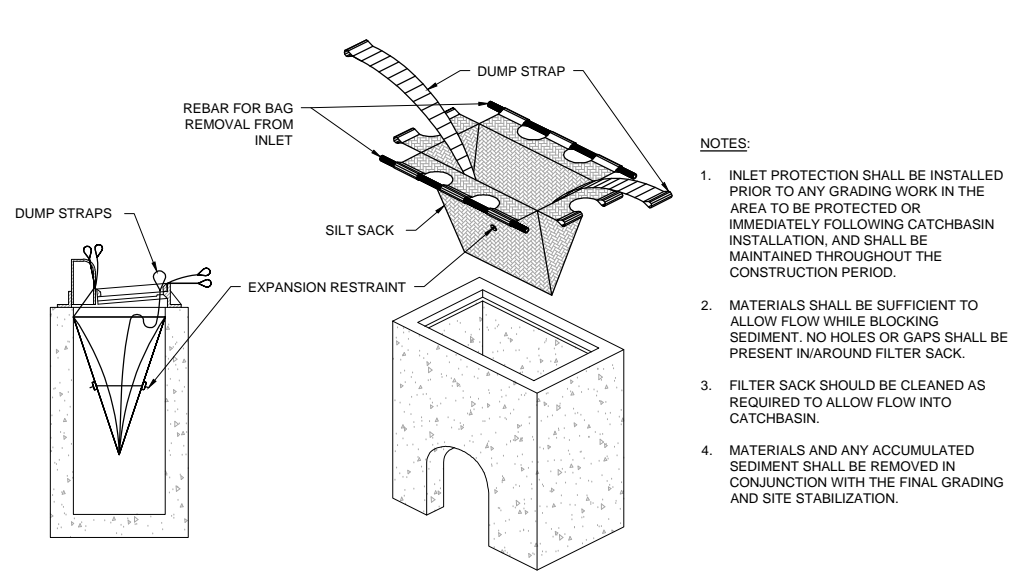
CADD USER: Greg Nelson FILE: M:\DESIGN\23820282\001\23820282_001_COVER.DWG PLOT SCALE: 1:2 PLOT DATE: 10/20/2020 9:43 AM

				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.				CLIENT BID CONSTRUCTION				10/29/20				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435				Scale AS SHOWN Date 10/01/2020 Drawn GGN/GWB Checked GGN Designed GGN Approved BJL				CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021				BARR PROJECT No. 23/62-0282.38			
				PRINTED NAME BRADLEY J. LINDAMAN				RELEASED TO/FOR				A B C 0 1 2 3				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				RAMSEY-WASHINGTON METRO WATERSHED DISTRICT				CLIENT PROJECT No.							
NO. BY CHK. APP. DATE				REVISION DESCRIPTION				DATE				DATE RELEASED								SITE LOCATIONS AND SHEET INDEX				DWG. No. G-01				REV. No. A			



- NOTES:**
1. SEDIMENT LOG SHOULD BE INSTALLED ALONG CONTOURS (CONSTANT ELEVATION).
 2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING 1/2 OF LOG HEIGHT.
 4. SEDIMENT LOG SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED.

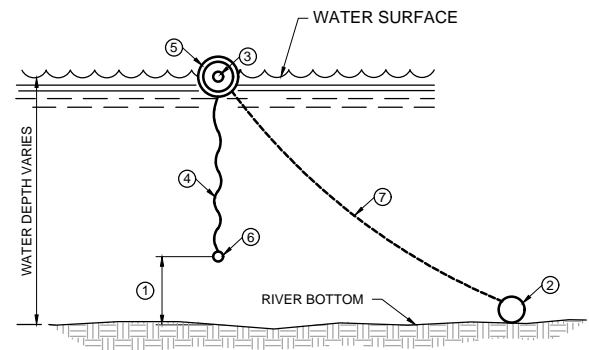
1 DETAIL: SEDIMENT LOG - STAKING
NOT TO SCALE



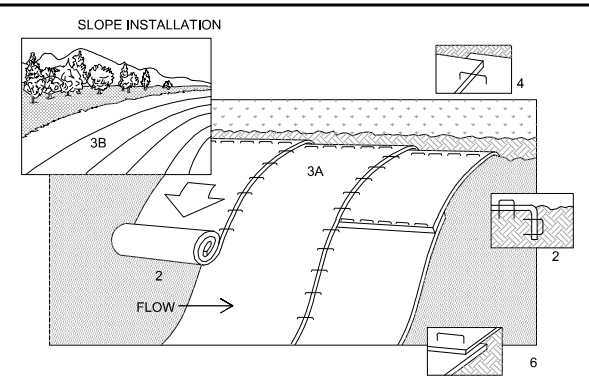
- NOTES:**
1. INLET PROTECTION SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR IMMEDIATELY FOLLOWING CATCHBASIN INSTALLATION, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 2. MATERIALS SHALL BE SUFFICIENT TO ALLOW FLOW WHILE BLOCKING SEDIMENT. NO HOLES OR GAPS SHALL BE PRESENT IN/AROUND FILTER SACK.
 3. FILTER SACK SHOULD BE CLEANED AS REQUIRED TO ALLOW FLOW INTO CATCHBASIN.
 4. MATERIALS AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

2 DETAIL: INLET PROTECTION - FILTER SACK
NOT TO SCALE

- NOTES:**
1. 6" MAXIMUM FOR WATER DEPTHS UP TO 3'-0" DEEP AND 1'-0" MAXIMUM FOR DEPTHS OVER 3'-0".
 2. 24 LB (MIN.) ANCHOR @ 100'-0" O.C. SPACING (MAX.) ELIMINATE ANCHOR AND ANCHOR CABLE FOR WATER DEPTHS LESS THAN 3'-0" OR DISTANCE BETWEEN SHORE ANCHORS FOR TENSION CABLE OF LESS THAN 100'-0".
 3. 5/16"Ø (MIN.) TENSION CABLE. ANCHOR TENSION CABLE AT BOTH SIDES WITH STEEL POSTS OF DIAMETER AND LENGTH TO PREVENT BENDING AND PULL-OUT.
 4. 22 OZ VINYL COATED NYLON FABRIC CURTAIN.
 5. FLOAT - 8" MINIMUM DIAMETER PLASTIC SEGMENTS.
 6. CURTAIN WEIGHT - CONTINUOUS GALVANIZED STEEL CHAIN 5/16"Ø (MIN.), OR SEGMENTS OF 5/16"Ø STEEL CABLE 24" LONG @ 12" O.C. BETWEEN PIECES. CURTAIN WEIGHT TO BE HEAVY ENOUGH TO HOLD CURTAIN VERTICAL IN CURRENT AND WAVES FOR TYPICAL SITE.
 7. 5/16"Ø (MIN.) GALVANIZED CABLE. ATTACH CABLE TO TENSION CABLE AND ANCHOR.

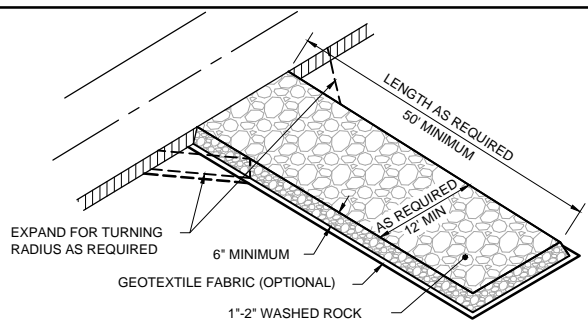


4 DETAIL: FLOTATION SILT CURTAIN
NOT TO SCALE



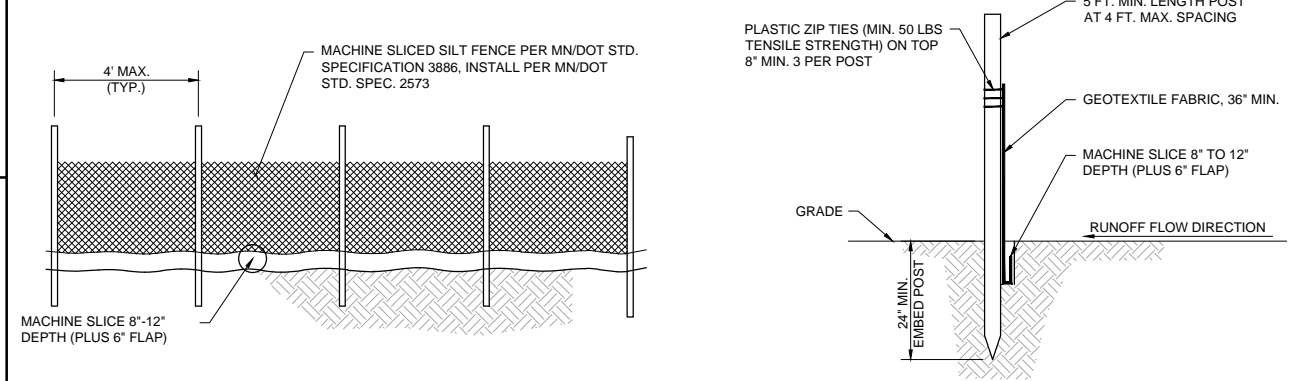
- NOTES:**
1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
 2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
 3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
 6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.

5 DETAIL: EROSION CONTROL BLANKET - INSTALLATION
NOT TO SCALE



- NOTES:**
1. ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED TO PREVENT TRACKING OFFSITE.
 2. ENTRANCE SHALL BE REMOVED IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.
 3. PROTECTION OF CURB & GUTTER, TRAILS AND SIDEWALKS DUE TO CONSTRUCTION ENTRANCE LOCATION SHALL BE CONSIDERED INCIDENTAL.

6 DETAIL: ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE

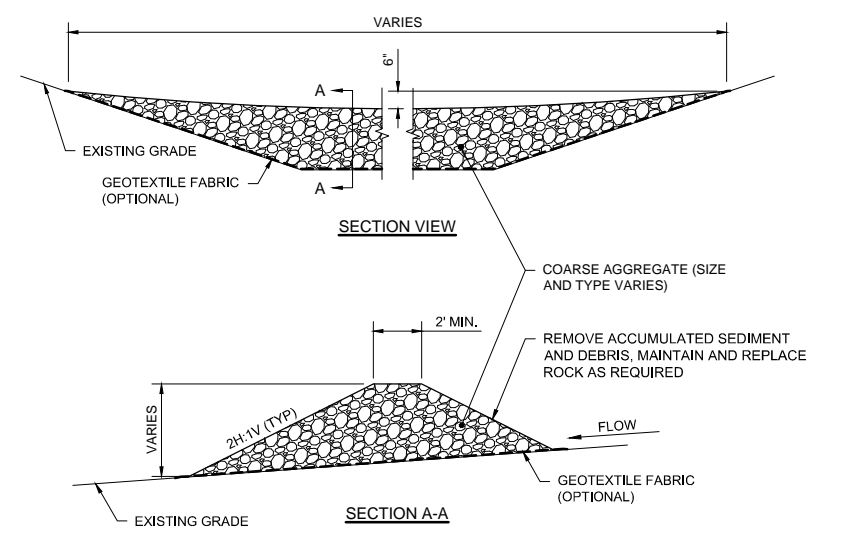


- NOTES:**
1. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. SILT FENCE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 2. SILT FENCE INSTALLATION AND MATERIALS SHALL MEET THE REQUIREMENTS OF MN/DOT SPECIFICATIONS 2573 AND 3886.
 3. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
 4. WHEN SEDIMENT BUILD UP REACHES 1/3 OF FENCE HEIGHT, THE SILT FENCE SHOULD BE REMOVED OR A SECOND SILT FENCE INSTALLED UPSTREAM OF THE EXISTING FENCE AT A SUITABLE DISTANCE.
 5. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL.

7 DETAIL: SILT FENCE - MACHINE SLICED
NOT TO SCALE

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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.



- NOTES:**
1. AGGREGATE SIZE MAY VARY AND DEPENDING ON CHANNEL SIZE, FLOW, SEDIMENT LOAD OR OTHER SITE CONDITIONS. AGGREGATE USED SHOULD BE RELATIVELY FREE OF SEDIMENT PRIOR TO INSTALLATION.
 2. ROCK FILTER DIKE SHALL BE CLEANED OR REPLACED WHEN SEDIMENT BUILD UP REACHES 1/2 OF THE DIKE HEIGHT. ALTERNATIVELY A SECOND ROCK FILTER DIKE MAY BE INSTALLED DOWNSTREAM OF THE EXISTING DIKE AT A SUITABLE DISTANCE.
 3. ROCK FILTER DIKE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ROCK, GEOTEXTILE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

3 DETAIL: ROCK FILTER DIKE
NOT TO SCALE

CADD USER: Greg Nelson FILE: I:\DESIGN\2302082\001\2302082\038_G03_EROSIONDETAILS.DWG PLOT SCALE: 1/2" PLOT DATE: 10/26/2020 2:27 PM

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

CLIENT	10/20								
BID									
CONSTRUCTION									
	A	B	C	0	1	2	3		
RELEASED TO/FOR									
DATE RELEASED									

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	10/26/2020
Drawn	GGN/GWB
Checked	GGN
Designed	GGN
Approved	BJL

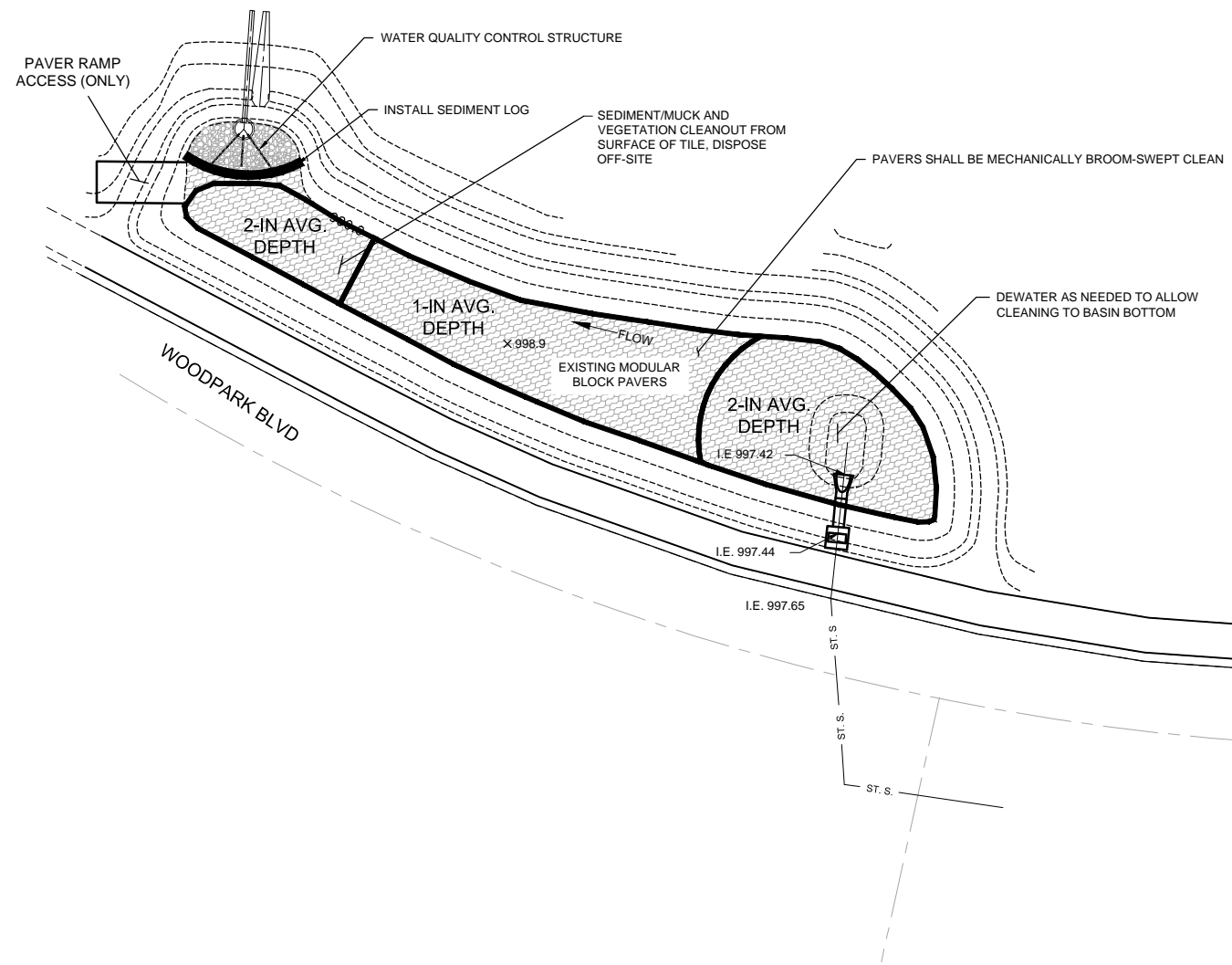
RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021

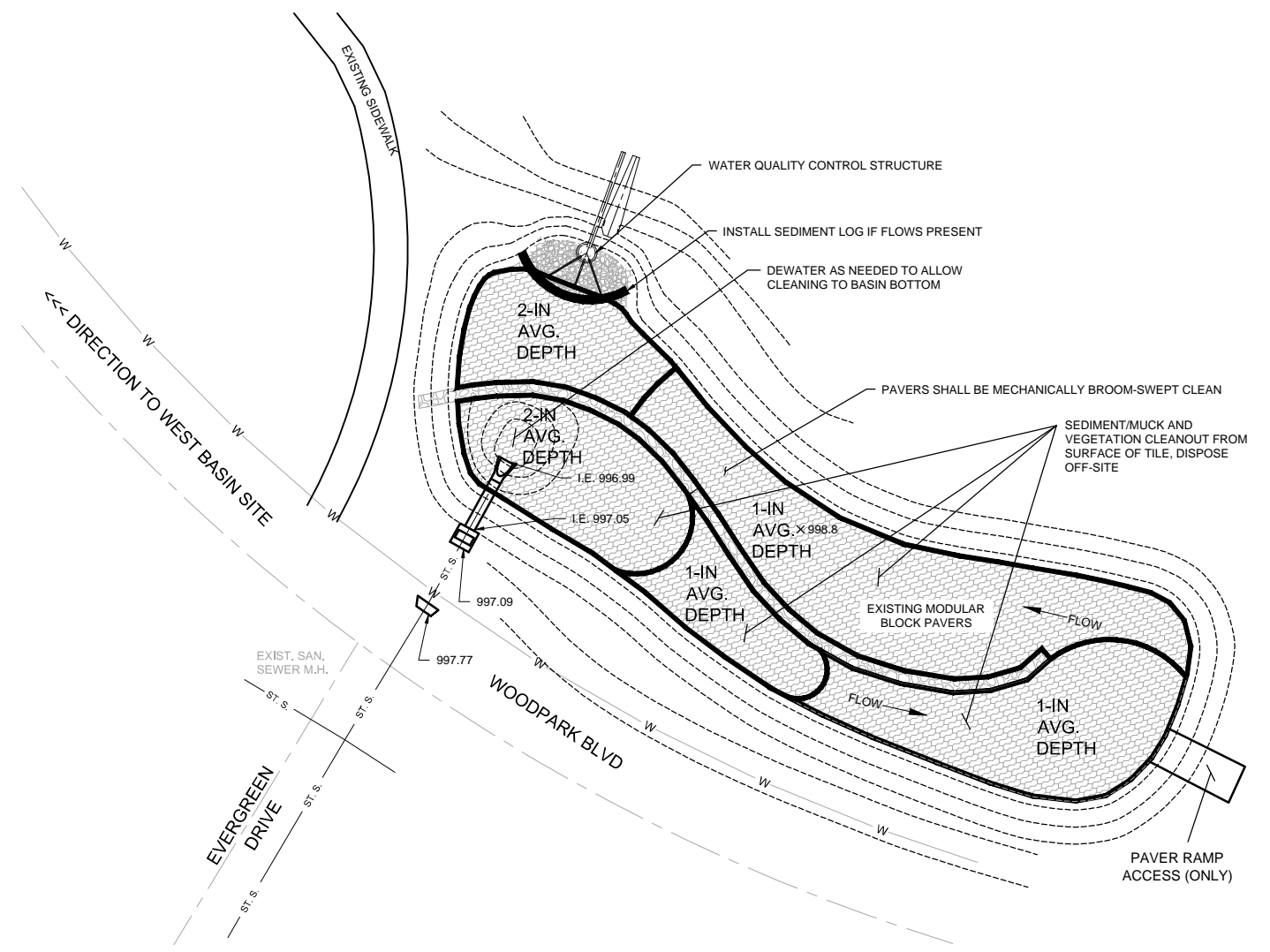
STORMWATER POLLUTION
EROSION CONTROL

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	G-03
REV. No.	A

ISSUED FOR
PROJECT APPROVAL



1 PLAN: EXISTING WEST BASIN SITE
 SCALE IN FEET



2 PLAN: EXISTING EAST BASIN SITE
 SCALE IN FEET

NOTES:

1. NOTIFY DAVE VLASIN, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7972 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITIES TO INSPECT EROSION/SEDIMENT CONTROL PRACTICES.
2. SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES SHOWN ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
3. ALL NATIVE VEGETATION SURROUNDING BASINS SHALL BE PROTECTED. DAMAGE TO NATIVE RESTORATION AREAS SHALL BE REPAIRED IN-KIND AND MAINTAINED AT THE COST OF THE CONTRACTOR.
4. PIPE DISCHARGE BASIN POOLS TO BE CLEANED TO DEPTHS SHOWN ON PLANS.
5. ROCK OUTFALL STRUCTURES TO BE PROTECTED. DRAIN TILES EXIST ADJACENT TO PAVERS AND SHALL BE PROTECTED.
6. DISTURBANCE TO TURF TO BE RESTORED WITH SEED AND MULCH BLANKET AS DIRECTED BY THE OWNER.



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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

ISSUED FOR PROJECT APPROVAL

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: BRADLEY J. LINDAMAN
 SIGNATURE: _____
 DATE: _____ LICENSE # 22178

CLIENT	10/29						
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

BARR
 Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
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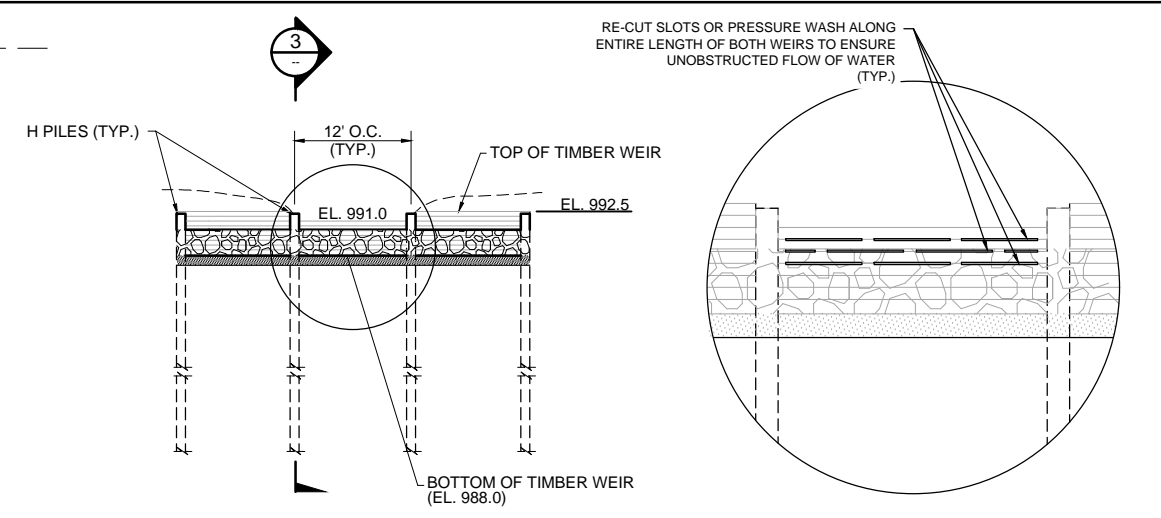
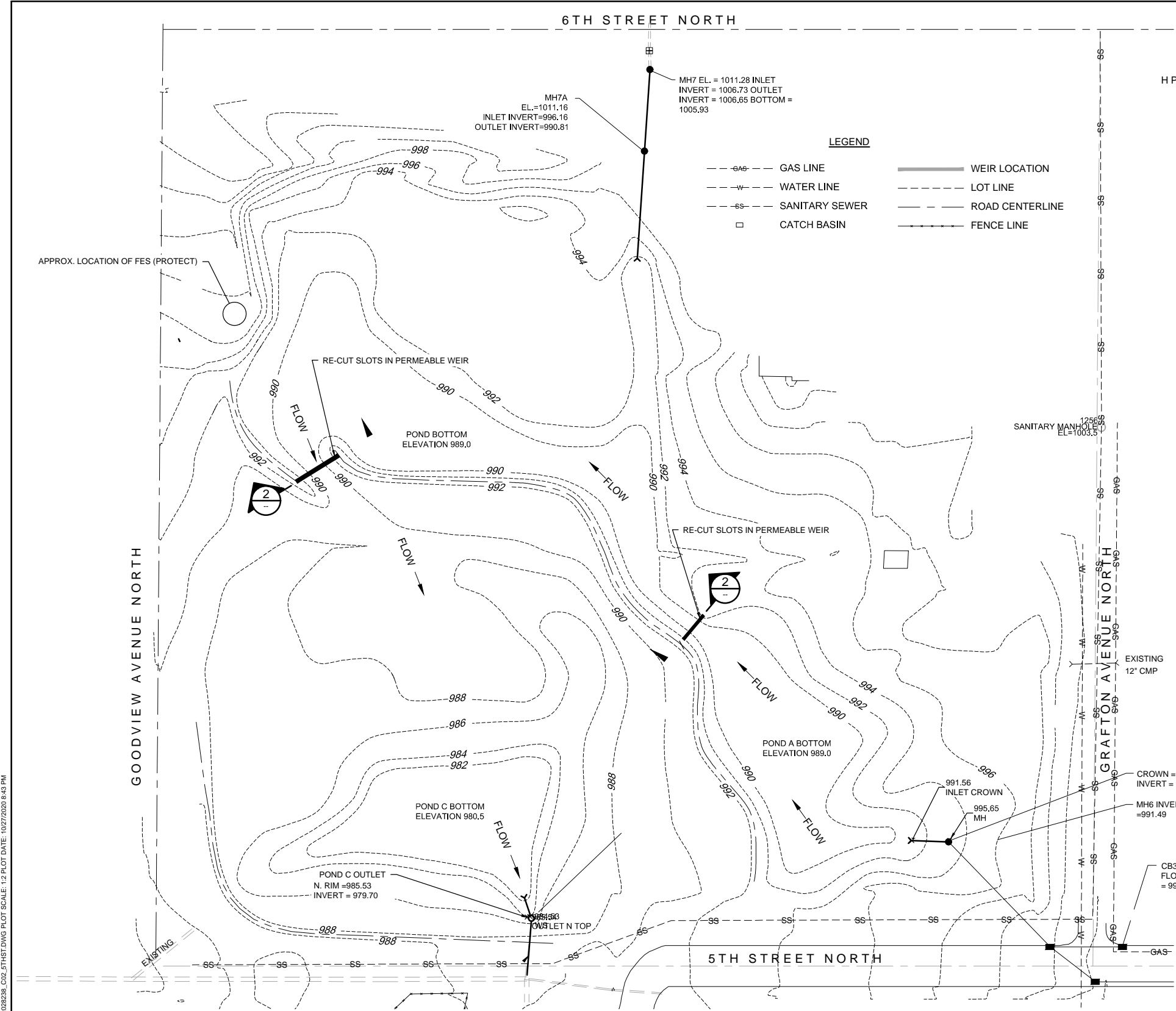
Scale	AS SHOWN
Date	10/26/2020
Drawn	GGN/GWB
Checked	GGN
Designed	GGN
Approved	BJL

RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

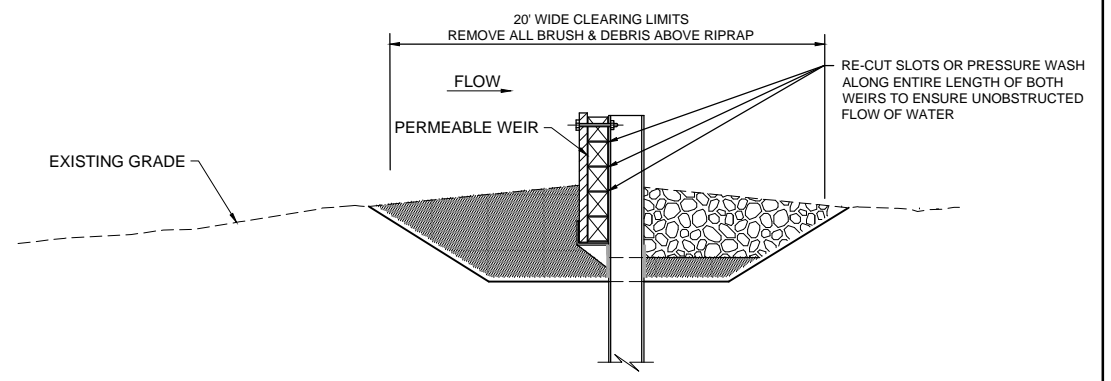
CAPITAL IMPROVEMENT PROJECT (CIP)
 MAINTENANCE/REPAIRS 2021
 SITE 1
 PFS BASINS PAVER CLEANING/SWEEPING

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	C-01
REV. No.	A

CADD USER: Greg Nelson FILE: \\LDESIGN\23620282_01\23620282_01_PFS.DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 2:29 PM
 BARR: \\LDESIGN\23620282_01\23620282_01_PFS.DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 2:29 PM



2 PROFILE: 5TH STREET WETLAND PERMEABLE WEIR
NOT TO SCALE



3 SECTION: 5TH STREET WETLAND PERMEABLE WEIR
1/2"=1'-0"

0 1 2 3 4 5
SCALE IN FEET

1 PLAN: 5TH STREET WETLAND
SCALE IN FEET

0 40 80

GENERAL NOTES:

1. NOTIFY DAVE VLASIN, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7972 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITIES TO INSPECT EROSION/SEDIMENT CONTROL PRACTICES.
2. SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES SHOWN ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
3. PARKING LOT, PATHWAYS AND ALL ASSOCIATED FACILITIES MUST BE PROTECTED. CONTRACTOR RESPONSIBLE FOR REPAIRING ALL DAMAGED CAUSED.
4. INSTALLATION OF EROSION CONTROL DEVICES SHALL BE CONDUCTED PRIOR TO ALL WORK IF WATER FLOWING THROUGH WEIRS.
5. ACCESS TO WEIRS BY FOOT ONLY.



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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

ISSUED FOR PROJECT APPROVAL

CADD USER: G:\m\w\l\Breaker\FILE: M:\DESIGN\2020\2020-02-26\2020-02-26\CIP_02_5THST.DWG PLOT SCALE: 1:3 PLOT DATE: 10/27/2020 8:43 PM

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

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

PRINTED NAME: BRADLEY J. LINDAMAN

SIGNATURE: _____

DATE: _____ LICENSE # 22178

CLIENT	10/29						
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

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www.barr.com

Scale	AS SHOWN
Date	10/27/2020
Drawn	GGN/GWB
Checked	GGN
Designed	GGN
Approved	BJL

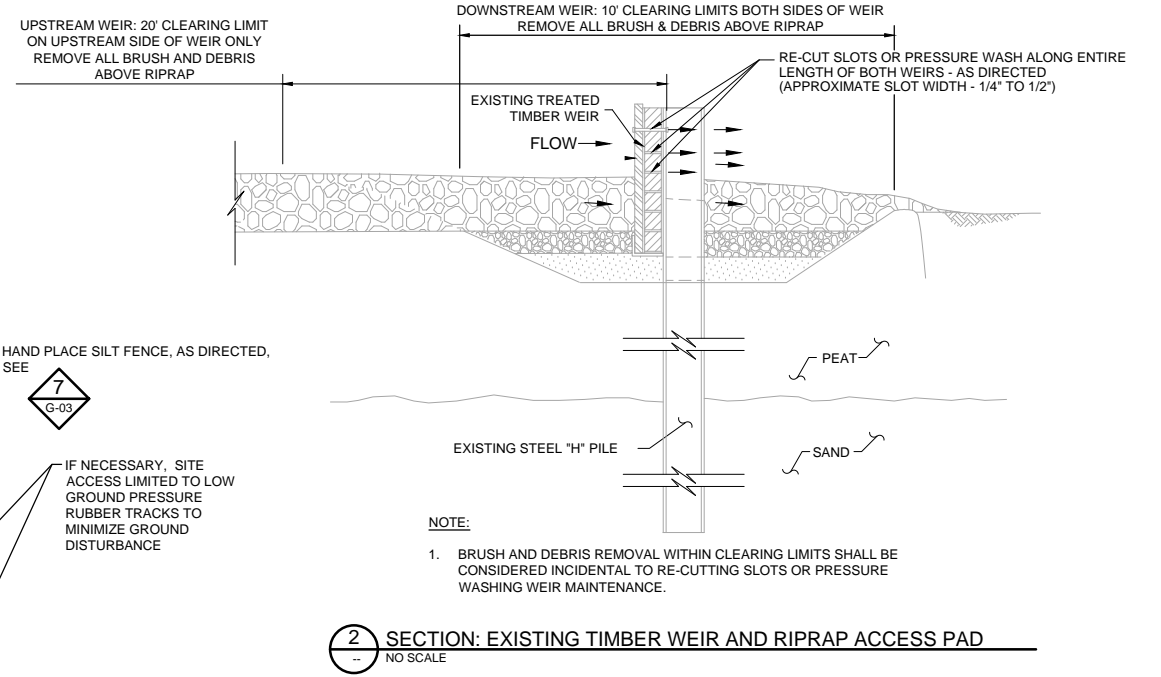
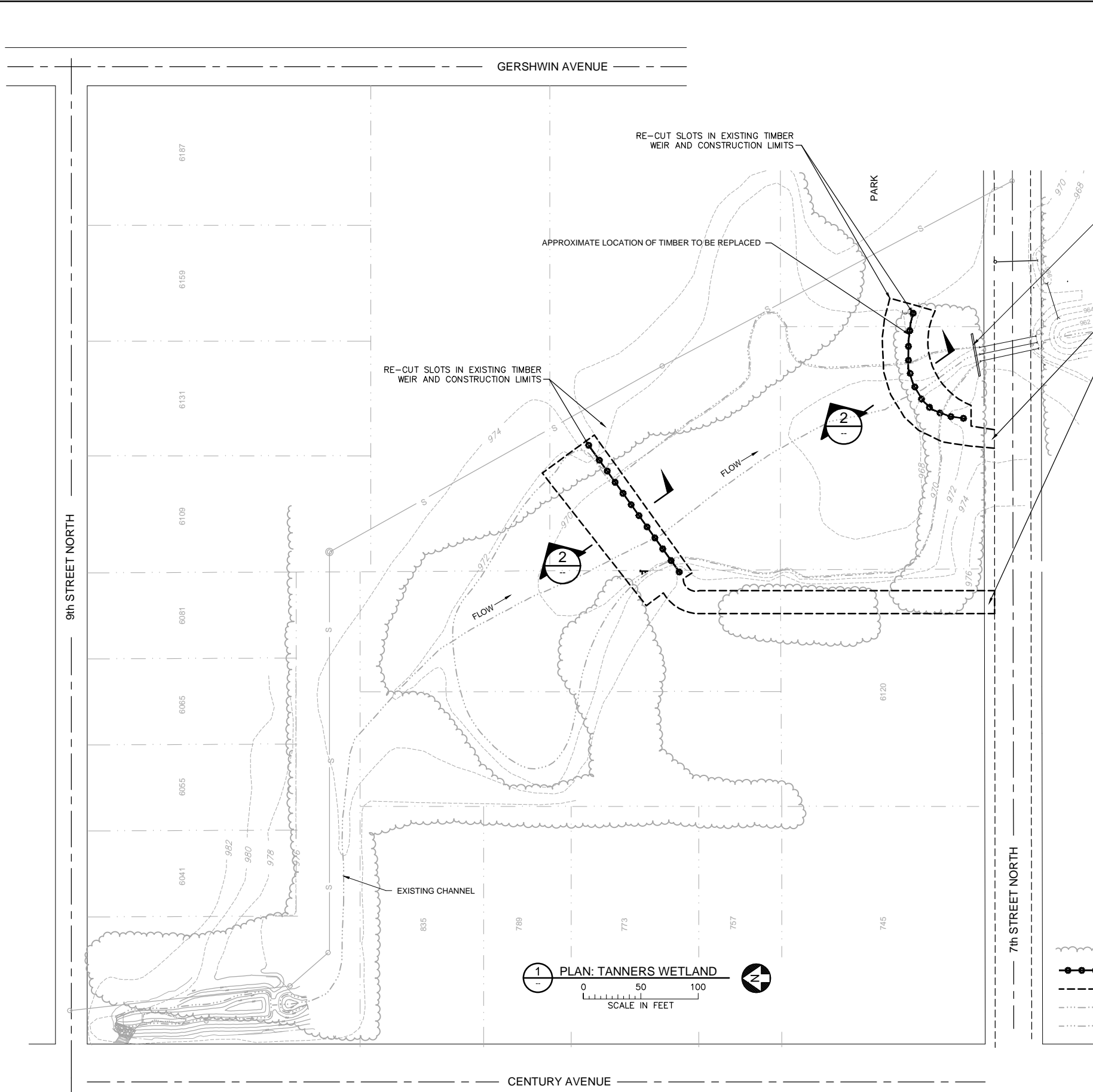
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2020

SITE 2
5TH STREET WETLAND WEIR MAINTENANCE

BARR PROJECT No.	23/62-0282.37
CLIENT PROJECT No.	
DWG. No.	C-02
REV. No.	A

CADD USER: Garrett W. Breckler FILE: M:\DESIGN\2020\2020\2020\CIP_03_7THSTWEIRS.DWG PLOT SCALE: 1:2 PLOT DATE: 10/27/2020 8:44 PM



GENERAL NOTES:

1. NOTIFY DAVE VLASIN, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7972 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITIES TO INSPECT EROSION/SEDIMENT CONTROL PRACTICES.
2. SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES SHOWN ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
3. CONSTRUCTION LIMITS TO BE STAKED BY ENGINEER PRIOR TO MOBILIZATION TO THIS SITE.
4. PARKING LOT, PATHWAYS AND ALL ASSOCIATED FACILITIES MUST BE PROTECTED. CONTRACTOR RESPONSIBLE FOR REPAIRING ALL DAMAGED CAUSED.
5. CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES.
6. RESTORE ALL DISTURBANCE AREAS WITH NATIVE SEED (AS DIRECTED BY OWNER) AND EROSION CONTROL BLANKET.
7. INSTALLATION OF EROSION CONTROL DEVICES SHALL BE CONDUCTED PRIOR TO ALL WORK INSIDE THE WATER BODY.



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

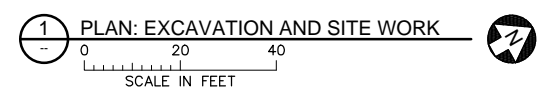
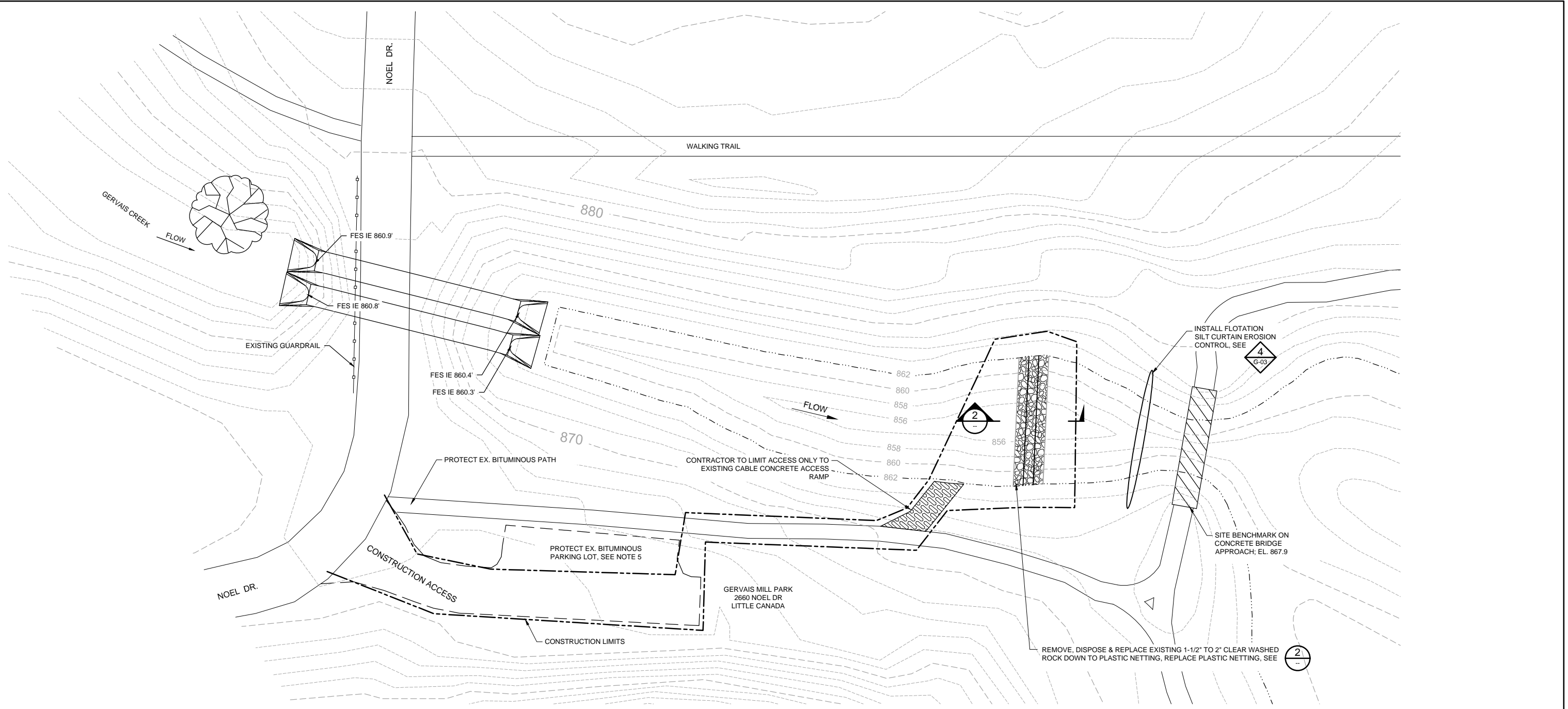
CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

- TREES
- WEIR
- CONSTRUCTION LIMITS
- EXISTING CHANNEL
- WATER LINE

ISSUED FOR
PROJECT APPROVAL

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: BRADLEY J. LINDAMAN SIGNATURE: _____ DATE: _____ LICENSE # 22178				CLIENT: 10/29 BID: _____ CONSTRUCTION: _____				 Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale: AS SHOWN Date: 10/26/2020 Drawn: GGN/GWB Checked: GGN Designed: GGN Approved: BJL		CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021 SITE 3 TANNER'S WETLAND WEIR MAINTENANCE		BARR PROJECT No. 23/62-0282.38 CLIENT PROJECT No. _____ DWG. No. C-03 REV. No. A	
				RELEASED TO/FOR: _____ DATE RELEASED: _____								NO. BY CHK APP. DATE REVISION DESCRIPTION					

CADD USER: Garen W. Becker FILE: M:\DESIGN\2362\2362_04_GERVAISFILTER.DWG PLOT SCALE: 1/2" PLOT DATE: 10/27/2020 8:44 PM

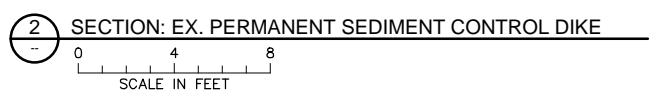
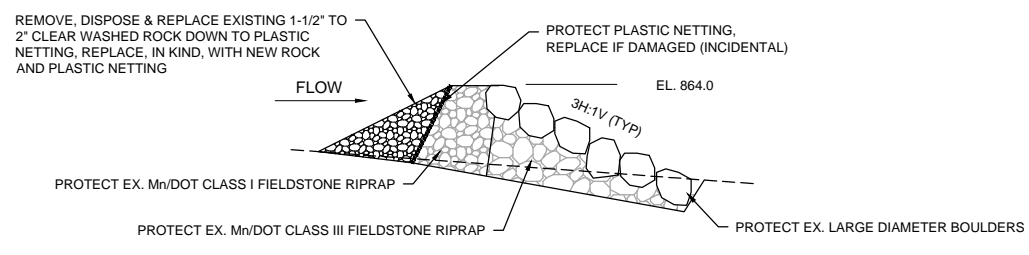


- NOTES:**
- INSTALLATION OF EROSION CONTROL DEVICES SHALL BE CONDUCTED PRIOR TO ALL WORK INSIDE THE WATER BODY.
 - CONTRACTOR RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS. ONLY AREAS WITHIN LIMITS WILL BE CONSIDERED FOR PAYMENT.
 - RESTORE ALL DISTURBED AREAS WITH SEED AND EROSION CONTROL BLANKET AS DIRECTED BY OWNER.
 - NO PARKING ON NOEL DRIVE WITHOUT APPROVAL FROM THE CITY OF LITTLE CANADA PUBLIC WORKS DEPT.
 - EXISTING BITUMINOUS PARKING LOT RESURFACED IN 2018. CURB & GUTTER, BITUMINOUS PARKING LOT, AND WALKING PATH TO BE PROTECTED DURING WORK. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE FOUND, INCLUDING SURFACE SCUFFING AND SCRAPING.
 - SITE IS LOCATED IMMEDIATELY NORTHEAST OF THE RAMSEY WASHINGTON METRO WATERSHED DISTRICT OFFICES AT 2665 NOEL DRIVE, LITTLE CANADA, MN.



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

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ISSUED FOR
PROJECT APPROVAL

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: BRADLEY J. LINDAMAN SIGNATURE: _____ DATE: _____ LICENSE # 22178					CLIENT: 10/29 BID: _____ CONSTRUCTION: _____ RELEASED TO/FOR: _____ DATE RELEASED: _____					BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com					Scale: AS SHOWN Date: 10/26/2020 Drawn: GGN/GWB Checked: GGN Designed: GGN Approved: BJL					RAMSEY-WASHINGTON METRO WATERSHED DISTRICT					CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021 SITE 4 GERVAIS MILL POND FILTER MAINTENANCE					BARR PROJECT No. 23/62-0282.38 CLIENT PROJECT No. _____ DWG. No. C-04 REV. No. A				
NO.	BY	CHK	APP	DATE	REVISION DESCRIPTION																													

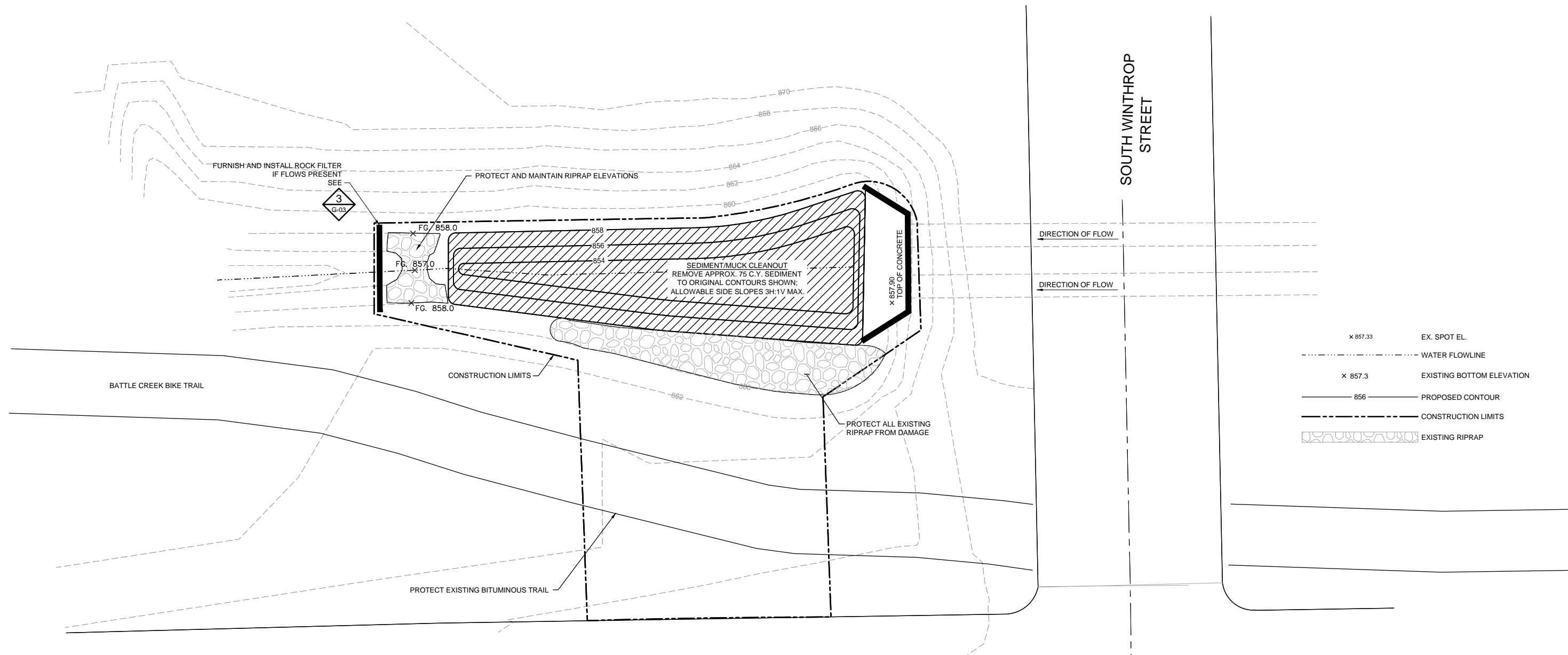
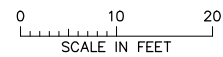
CADD USER: Garth V. Breckler FILE: M:\DESIGN\23620282\03\23620282\38_C05_LOWER AFTON_WINTHROP.DWG PLOT SCALE: 1/2 PLOT DATE: 10/27/2020 8:44 PM



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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

1 PLAN: LOWER AFTON ROAD DRAINAGEWAY SEDIMENT EXCAVATION



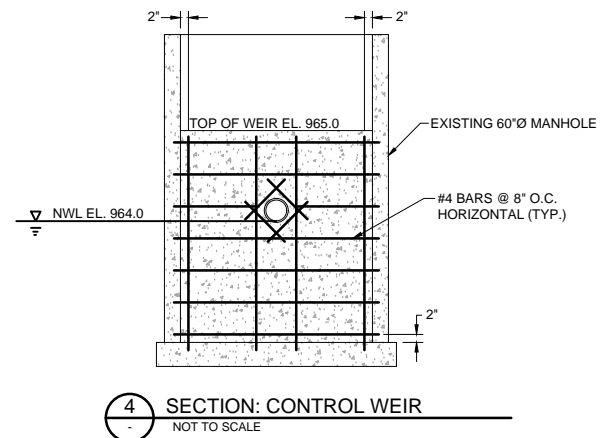
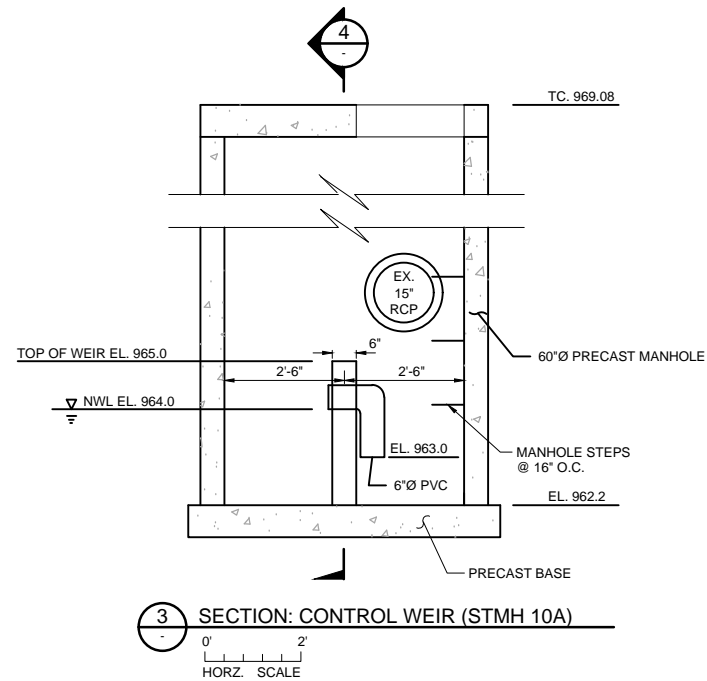
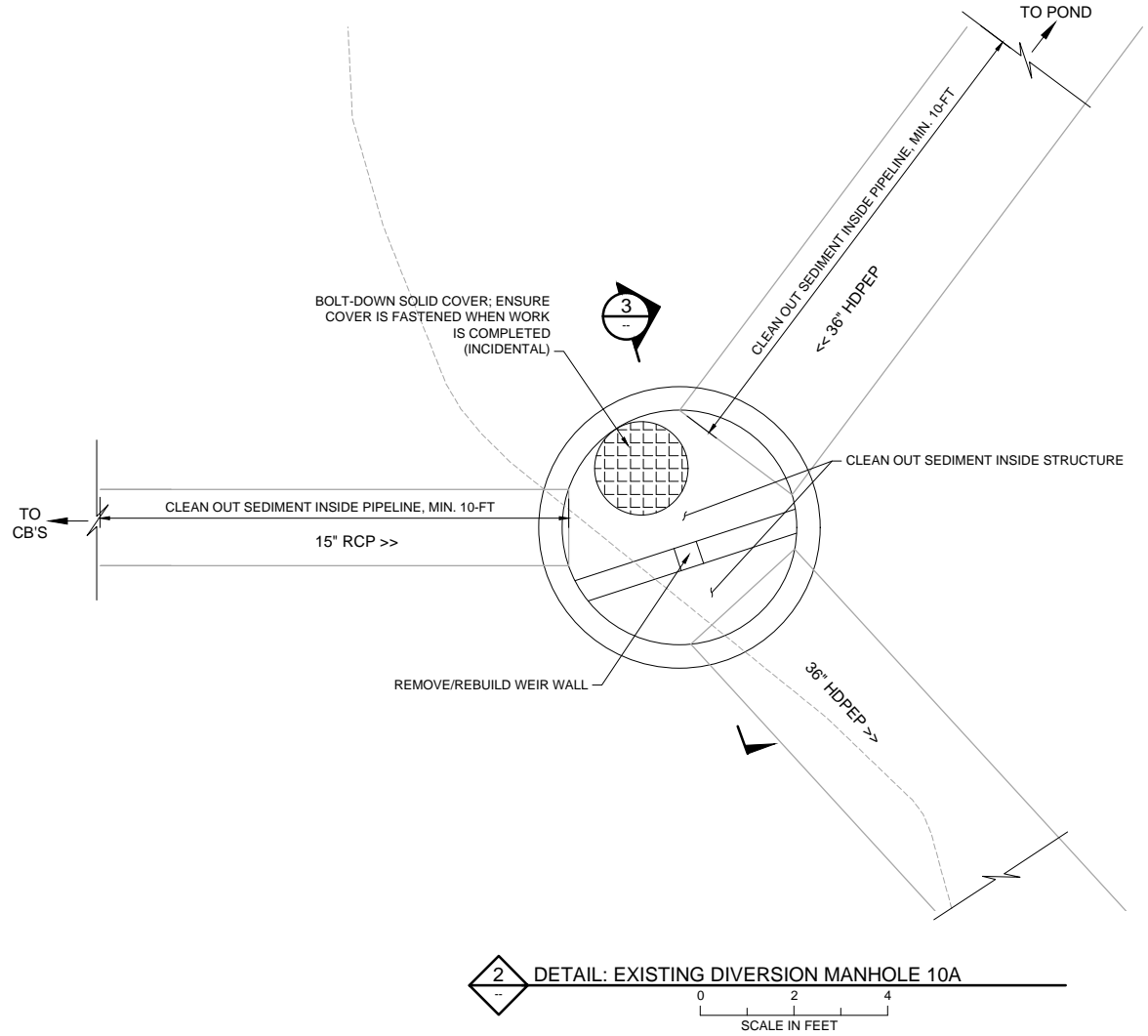
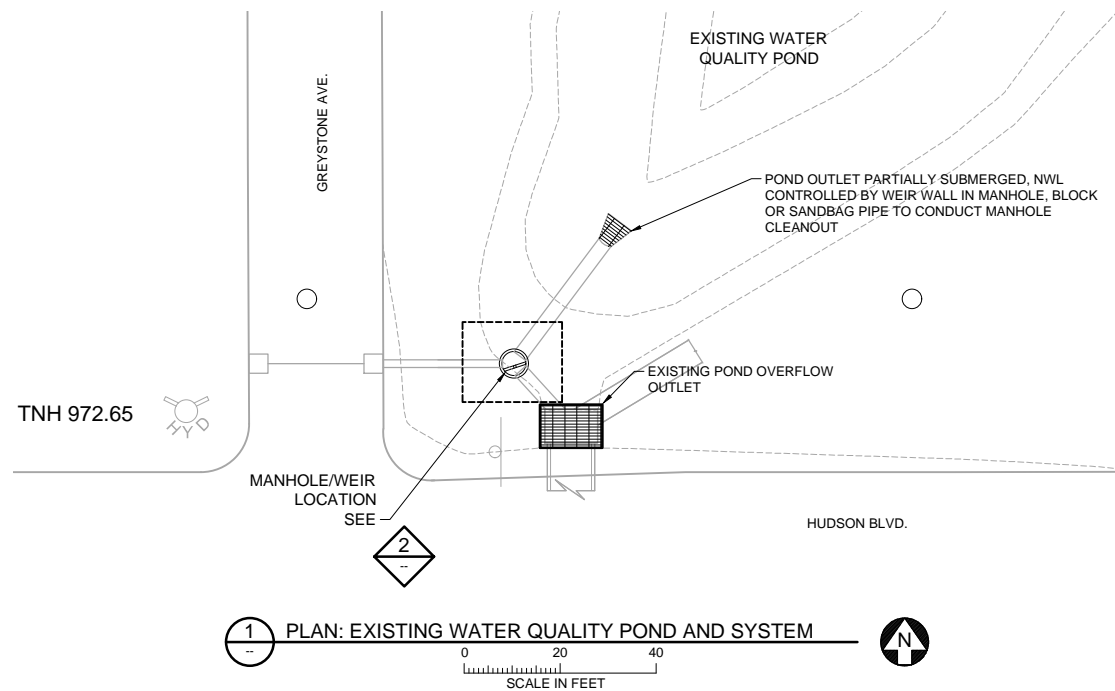
NOTES:

1. NOTIFY DAVE VLASIN, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7972 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITIES TO INSPECT EROSION/SEDIMENT CONTROL PRACTICES.
2. SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES SHOWN ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND FIELD VERIFYING ALL UTILITIES.
4. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS. ONLY RESTORATION ONLY AREAS WITHIN THE CONSTRUCTION LIMITS WILL BE CONSIDERED FOR PAYMENT.
5. ONLY AREAS WITHIN THE CONSTRUCTION LIMITS WILL BE CONSIDERED FOR PAYMENT.
6. RESTORE DISTURBED SLOPES WITH NATIVE SEED (AS DIRECTED BY OWNER) AND STRAW MULCH BLANKET.

ISSUED FOR
PROJECT APPROVAL

				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.				CLIENT BID CONSTRUCTION		10/29								Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435		Scale AS SHOWN		CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021		BARR PROJECT No. 23/62-0282.38	
				PRINTED NAME BRADLEY J. LINDAMAN														Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Date 10/26/2020		SITE 5 - LOWER AFTON ROAD DRAINAGEWAY SEDIMENT REMOVAL		CLIENT PROJECT No.	
				SIGNATURE				RELEASED TO/FOR		A B C 0 1 2 3		DATE RELEASED						Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Drawn GGN/GWB		DWG. No. C-05		REV. No. A	
NO. BY CHK. APP. DATE				REVISION DESCRIPTION														Checked GGN		Designed GGN					
				DATE																Approved BJL					





ISSUED FOR PROJECT APPROVAL

CADD USER: Greg Nelson FILE: \\LDESIGN\23620282.012362028238_C06_ABI_WEIR DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 4:37 PM

BARR: \\LDESIGN\23620282.012362028238_C06_ABI_WEIR DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 4:37 PM

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: BRADLEY J. LINDAMAN

SIGNATURE: _____

DATE: _____ LICENSE # 22178

CLIENT	10/29						
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

BARR

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4300 MARKETPOINTE DRIVE
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MINNEAPOLIS, MN 55435

Corporate Headquarters:
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Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	10/26/2020
Drawn	GGN/GWB
Checked	GGN
Designed	GGN
Approved	BJL

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

CAPITAL IMPROVEMENT PROJECT (CIP)
MAINTENANCE/REPAIRS 2021

SITE 6
ABI DIVERSION WEIR REPAIR

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	C-06
REV. No.	A



CADD USER: Greg Nelson FILE: M:\DESIGN\23620282_00\23620282_00_C07_BAILEY NURSERY STORM.DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 2:01 PM

dwg 100.0000 01/17/2001 07:51:25

ISSUED FOR
PROJECT APPROVAL

				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.				CLIENT BID CONSTRUCTION				10/29				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale AS SHOWN						CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021				BARR PROJECT No. 23/62-0282.38			
				PRINTED NAME BRADLEY J. LINDAMAN								Date 10/28/2020		CLIENT PROJECT No.																			
				SIGNATURE _____				RELEASED TO/FOR				Checked -		BAILEY'S NURSERY STORM SEWER REPAIR				DWG. No. C-07		REV. No. A													
NO.				BY				CHK.				APP.				DATE				REVISION DESCRIPTION				DATE RELEASED				Approved -					

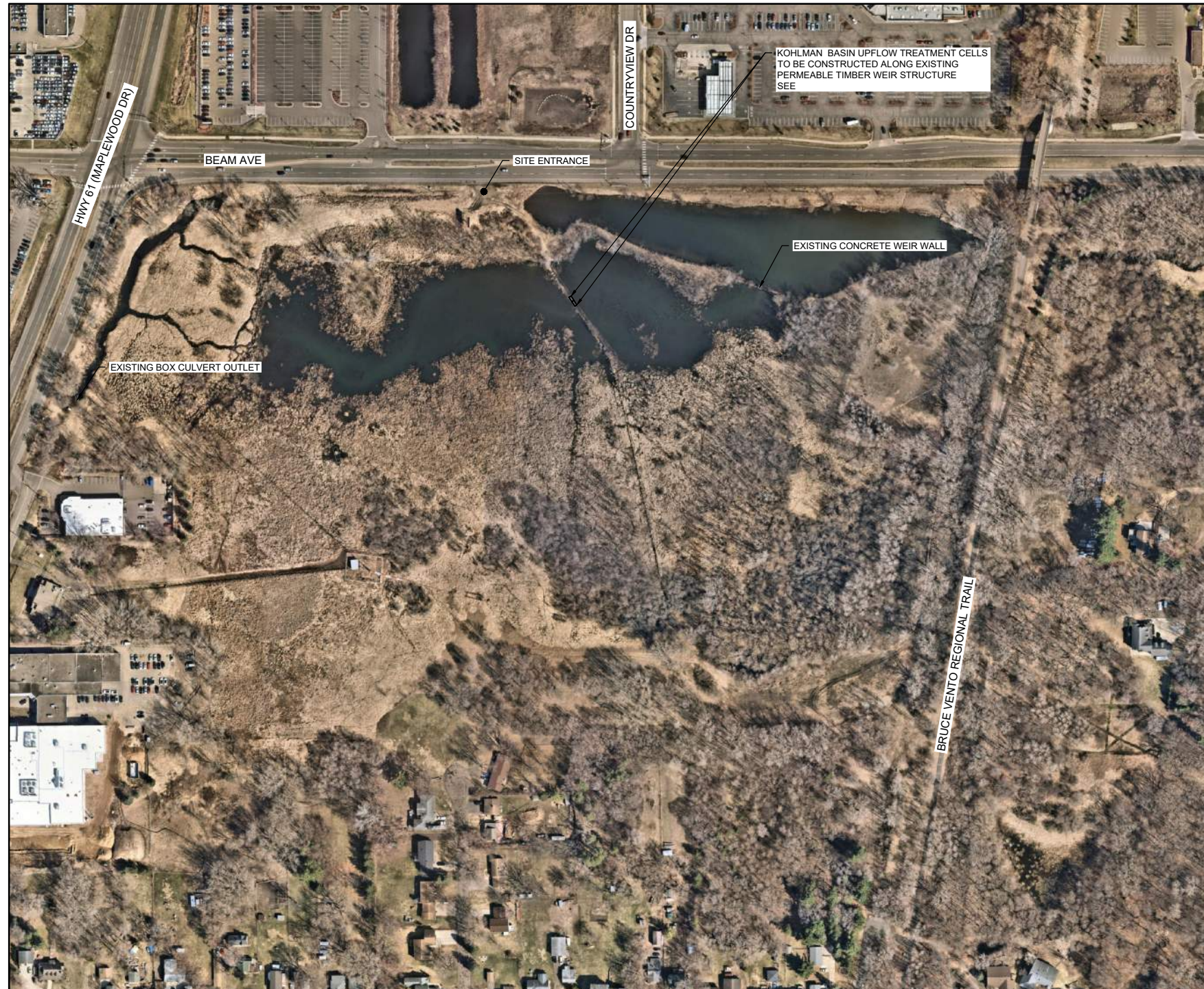
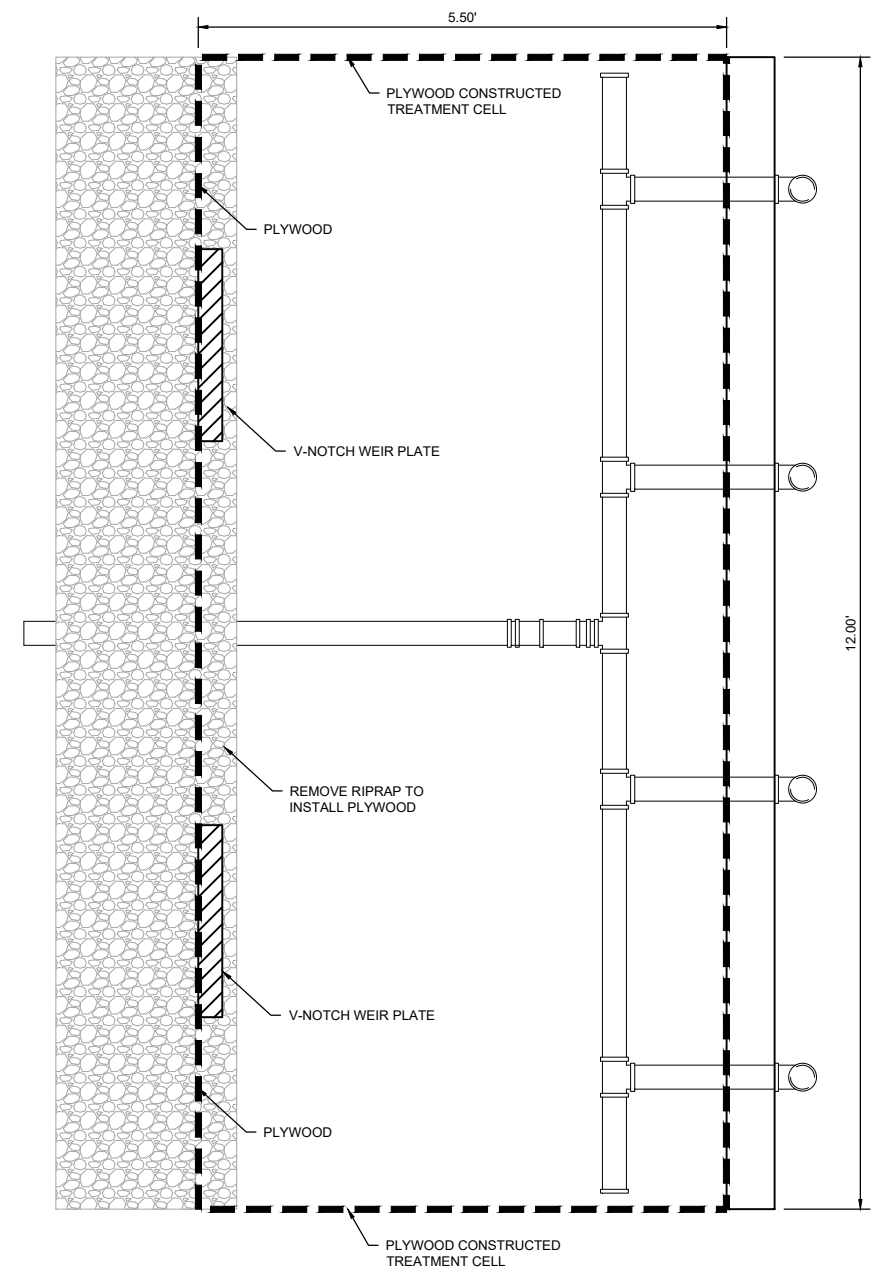
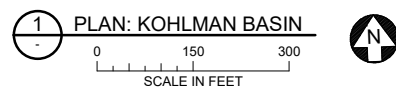
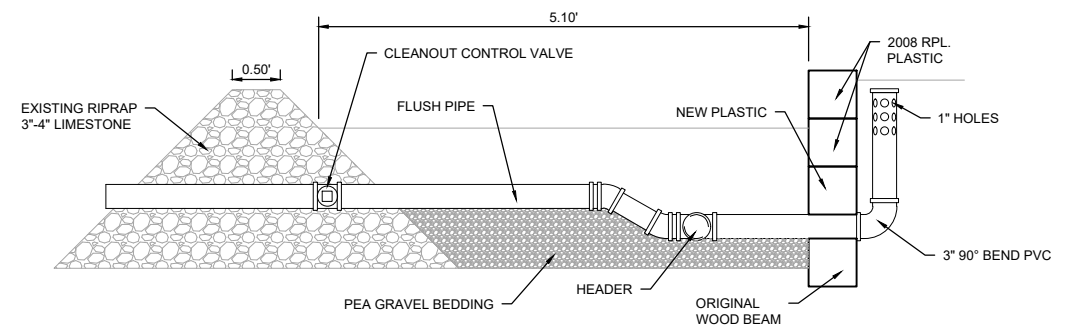


IMAGE DATE: APRIL 2020
 HORZ. PROJ.: RAMSEY CO. FEET



2 DETAIL: TOP VIEW



3 DETAIL: SIDE VIEW

ISSUED FOR
 PROJECT APPROVAL

CADD USER: Greg Nelson FILE: \\A\DESIGN\23620282_00\23620282_00_KB_TREATMENT CELLS.DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 4:35 PM

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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

PRINTED NAME: BRADLEY J. LINDAMAN
 SIGNATURE: _____
 DATE: _____ LICENSE # 22178

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
BARR ENGINEERING CO.	10/28/20		A B C 0 1 2 3	

BARR Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435

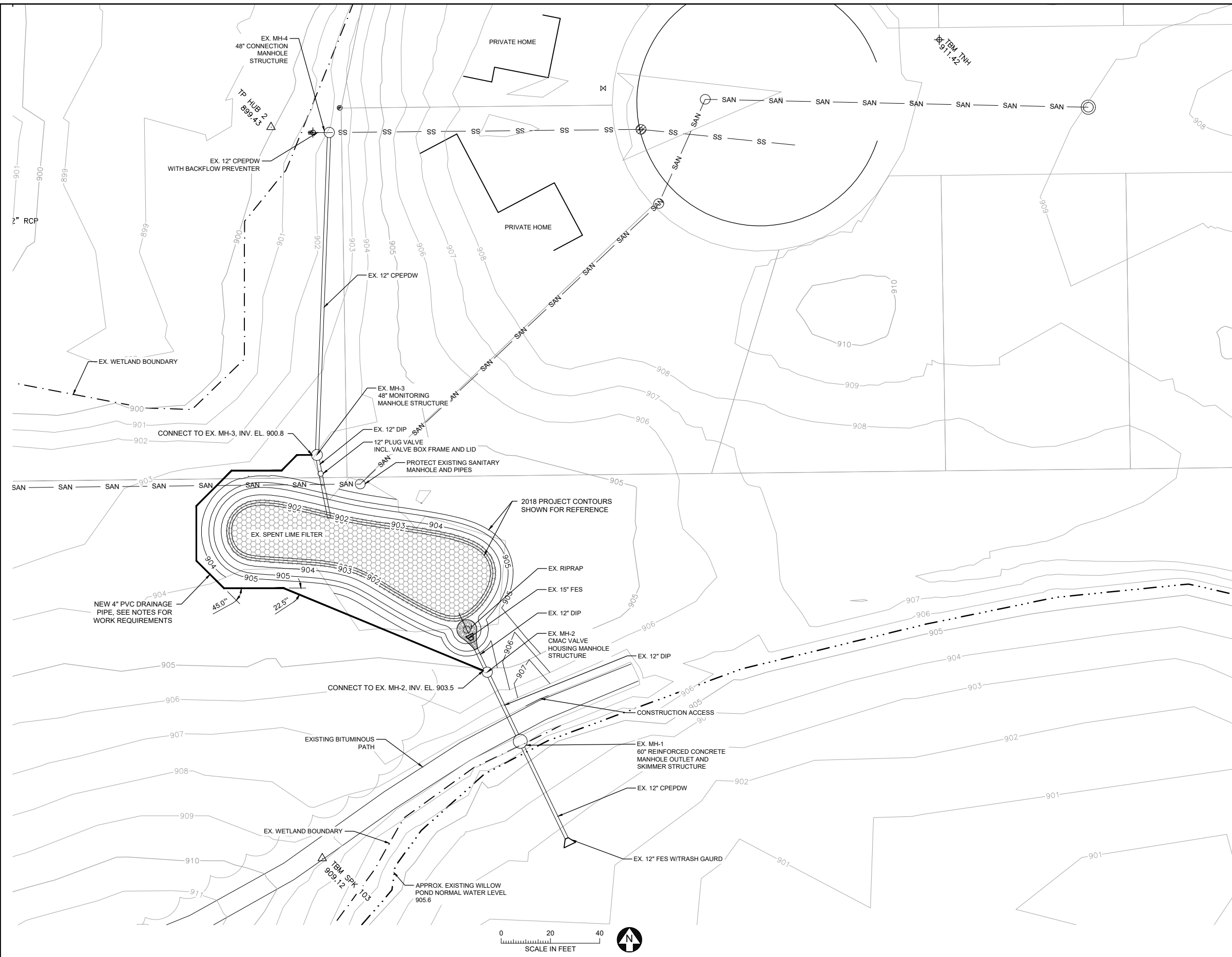
Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Ph: 1-800-632-2277

Scale	AS SHOWN
Date	10/27/2020
Drawn	GGN
Checked	
Designed	
Approved	



CAPITAL IMPROVEMENT PROJECT (CIP)
 MAINTENANCE/REPAIRS 2021
 KOHLMAN BASIN PERMEABLE WEIRS
 UPFLOW TREATMENT CELLS

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	C-08
REV. No.	A



LEGEND

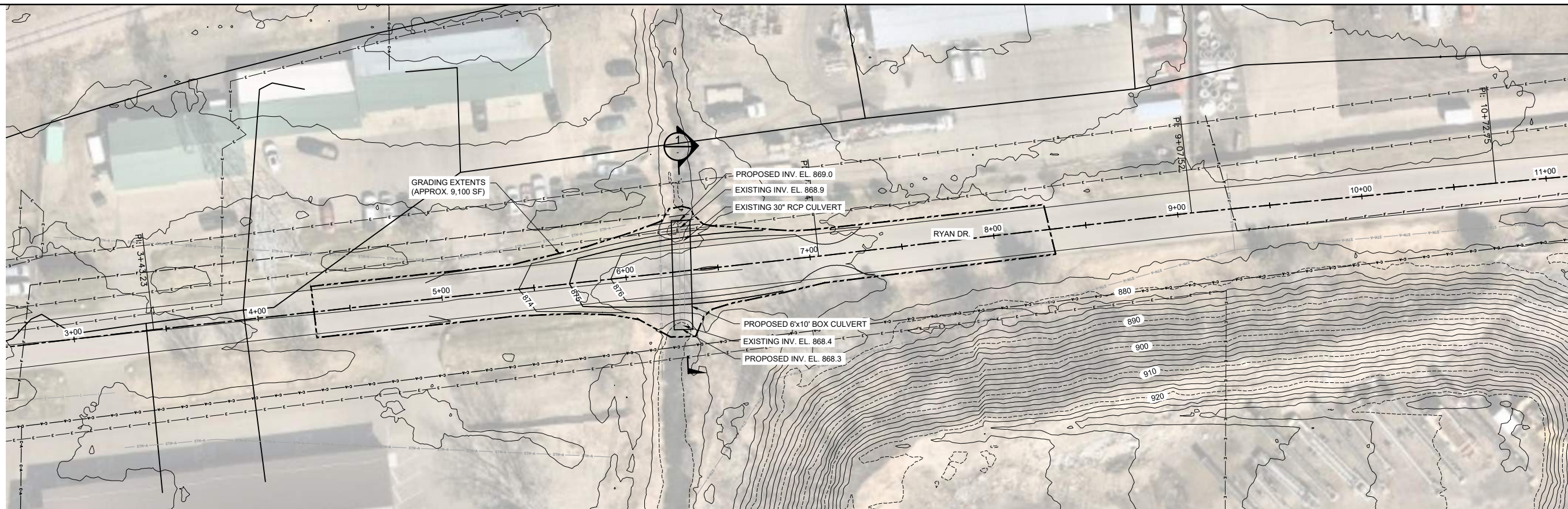
	EXISTING MINOR CONTOUR (1')
	EXISTING MAJOR CONTOUR (5')
	2018 PROJECT MINOR CONTOUR (1')
	2018 PROJECT MAJOR CONTOUR (5')
	2018 PROJECT STORM SEWER
	CONSTRUCTION LIMITS
	EXISTING PARCEL LINE
	EXISTING WETLAND DELINEATION
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING DECIDUOUS TREE

- NOTES:**
- ALL EXISTING WETLANDS SHOWN SHOULD NOT BE IMPACTED DURING THE INSTALLATION OF DRAINAGE PIPE.
 - PRIVATE PROPERTY SHOULD NOT BE ENCLOSED UPON DURING THE INSTALLATION OF DRAINAGE PIPE WITHOUT A TEMPORARY CONSTRUCTION EASEMENT HAS BEEN AGREED UPON BETWEEN THE CITY OF ROSEVILLE, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AND THE PRIVATE OWNER.
 - 4" PVC DRAIN PIPE SHALL BE SCH.-35, TO ASTM D3034 STANDARDS.
 - 4" PVC FITTINGS SHALL BE MAX. 45-DEGREES, JOINTS CONFORMING TO ASTM D2855 OR ASTM D3212 STANDARDS.
 - CONNECTION TO EX. STRUCTURES SHALL BE WATERTIGHT REQUIRING WATER STOP GASKETS AND FILL WITH NON-SHRINKING GROUT.
 - PROVIDE TRACER WIRE TO ENTIRE LENGTH OF 4" PVC DRAINAGE PIPE INSTALLED.
 - RESTORE ALL DISTURBED GROUND WITH WOODLAND SEE MIX AND EROSION CONTROL BLANKET AS DIRECTED BY OWNER'S REPRESENTATIVE.

ISSUED FOR
PROJECT APPROVAL

CADD USER: Greg Nelson FILE: \\A:\DESIGN\23620282_00\2362028238_C09_WILLOW CMAC DRAIN PIPEDWG PLOT SCALE: 1:2 PLOT DATE: 10/26/2020 4:23 PM

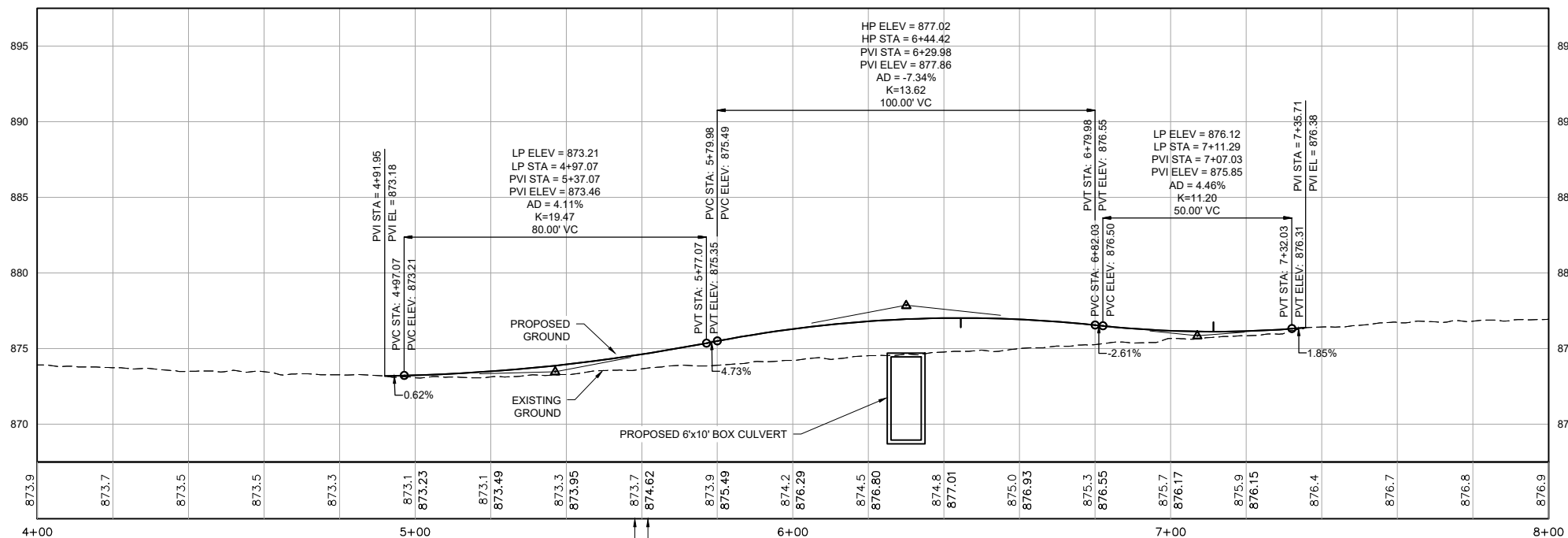
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: BRADLEY J. LINDAMAN SIGNATURE: _____ DATE: _____ LICENSE # 22178				CLIENT: 10/28/20 CONSTRUCTION: _____ RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED: _____				 Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: AS SHOWN Date: 10/27/2020 Drawn: GGN Checked: _____ Designed: _____ Approved: _____		CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021 WILLOW POND CMAC FILTRATION BMP DRAIN PIPE INSTALLATION		BARR PROJECT No. 23/62-0282.38 CLIENT PROJECT No. _____	
				NO. BY CHK. APP. DATE REVISION DESCRIPTION		DWG. No. C-09				REV. No. A					



1 PLAN: STATION 4+00 TO 8+00

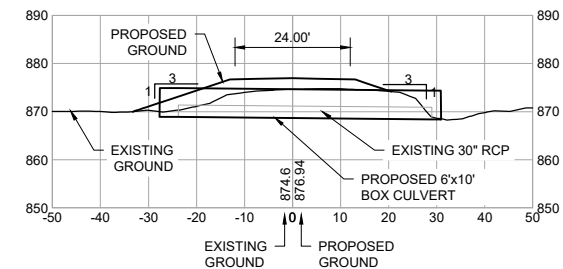
0 30 60
SCALE IN FEET

RYAN DR.



2 PROFILE: STATION 4+00 TO 8+00

0 20 40 0 5 10
HORIZ. SCALE IN FEET VERT. SCALE IN FEET



1 SECTION: STATION 6+30

0 20 40
SCALE IN FEET

NOTES:

1. DESIGN PARAMETERS INCLUDE:
 - 1.1. RAISE GRADE TO 877
 - 1.2. VERTICAL CURVES AND GRADES PER MNDOT ROAD DESIGN MANUAL
2. APPROXIMATE QUANTITIES:

2.1. ROAD REMOVAL & REPLACEMENT	344 LF (8,020 SF)
2.2. CURB AND GUTTER	445 LF
2.3. IN PLACE FILL (OVERALL)	340 CY

ISSUED FOR
PROJECT APPROVAL

CADD USER: Greg Nelson FILE: P:\MPL\23\MM623823\WORKFILES\CIP PROJECTS\CIP 2021\OWASSO BASIN\238238_C10_RYAN DRIVE.DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 4:30 PM

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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

PRINTED NAME: **BRADLEY J. LINDAMAN**

SIGNATURE: _____

DATE: _____ LICENSE # 22178

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
10/28/20			A B C 0 1 2 3	

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	10/27/2020
Drawn	GGN
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Designed	
Approved	

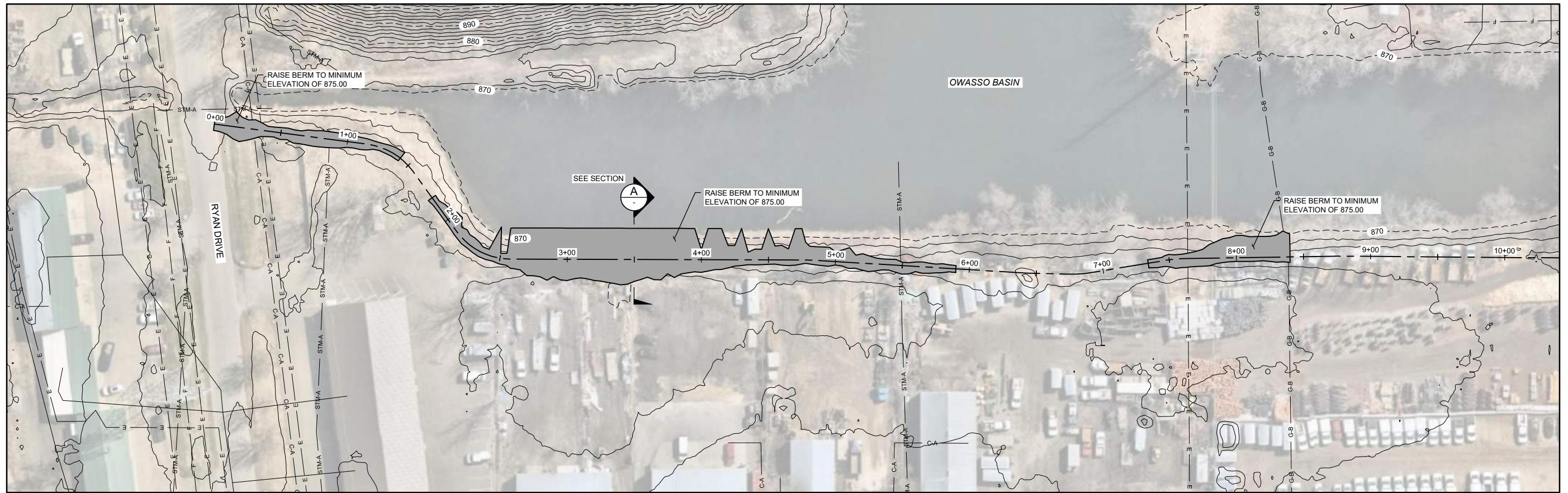


CAPITAL IMPROVEMENT PROJECT (CIP)
MAINTENANCE/REPAIRS 2021

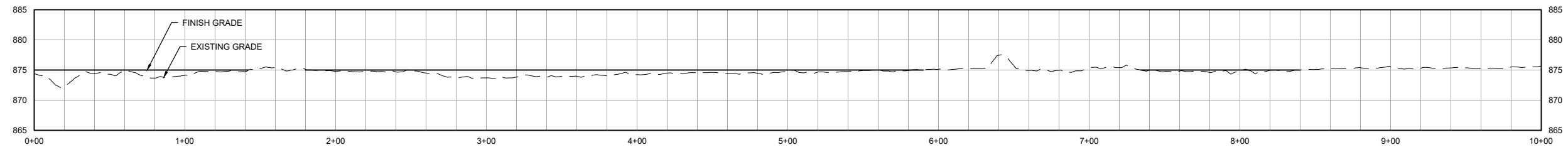
OWASSO BASIN IMPROVEMENTS
RYAN DR ROAD AND CULVERT REPLACEMENT

BARR PROJECT No. 23/62-0282.38	REV. No. A
CLIENT PROJECT No.	DWG. No. C-10

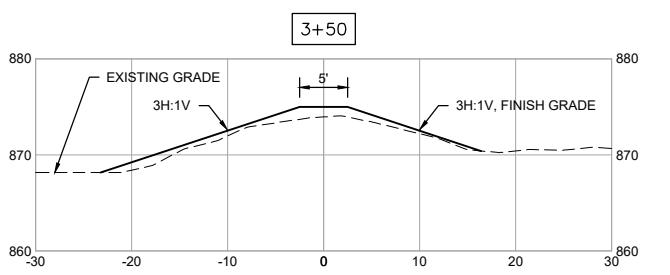
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1 PLAN: STATION 0+00 TO 10+00
 0 40 80
 SCALE IN FEET



2 PROFILE: STATION 0+00 TO 10+00
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 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET



A SECTION

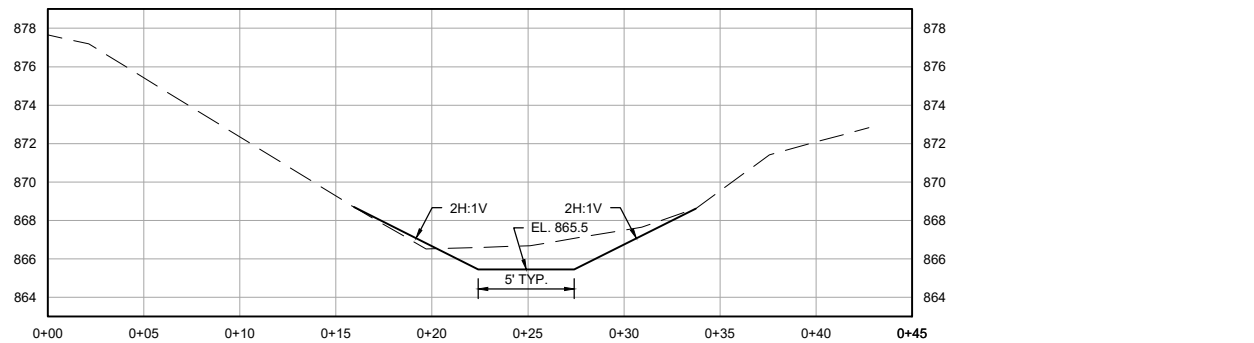
ISSUED FOR PROJECT APPROVAL

				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.				CLIENT BID CONSTRUCTION				10/28/20				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435				Scale: AS SHOWN Date: 10/27/2020 Drawn: GGN Checked: Designed: Approved:				CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2021				BARR PROJECT No. 23/62-0282.38			
				PRINTED NAME: BRADLEY J. LINDAMAN												Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				RAMSEY-WASHINGTON METRO WATERSHED DISTRICT				OWASSO BASIN IMPROVEMENTS PERIMETER BERM GRADING				CLIENT PROJECT No.			
NO.				BY				CHK.				APP.				DATE				REVISION DESCRIPTION				DWG. No. C-11				REV. No. A			
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				DATE: _____																											
				LICENSE # 22178																											

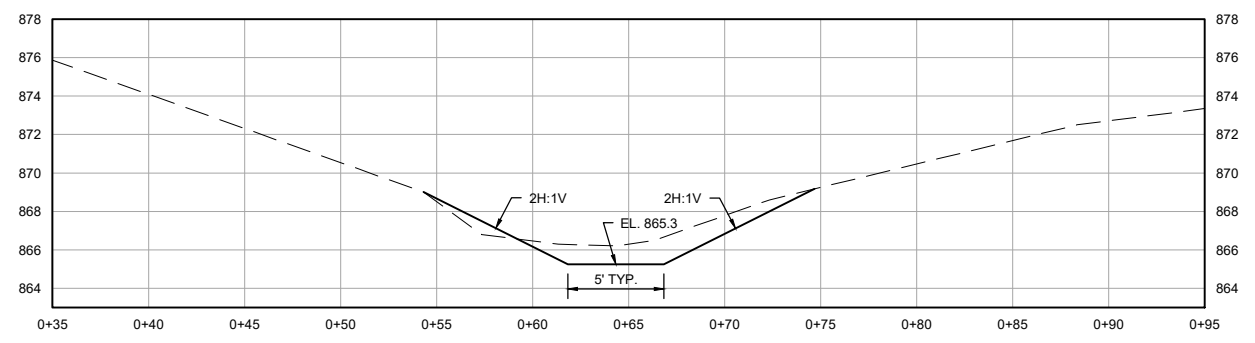
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1 PLAN: OWASSO BASIN CHANNEL
 0 100 200
 SCALE IN FEET



A SECTION: OWASSO BASIN CHANNEL
 0 5 10
 SCALE IN FEET



B SECTION: OWASSO BASIN CHANNEL
 0 5 10
 SCALE IN FEET

ISSUED FOR
PROJECT APPROVAL

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: **BRADLEY J. LINDAMAN**
 SIGNATURE: _____
 DATE: _____ LICENSE # 22178

CLIENT	10/28/20						
BID							
CONSTRUCTION							
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DATE RELEASED							

BARR Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
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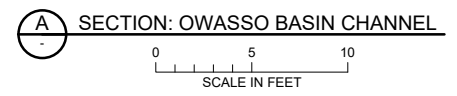
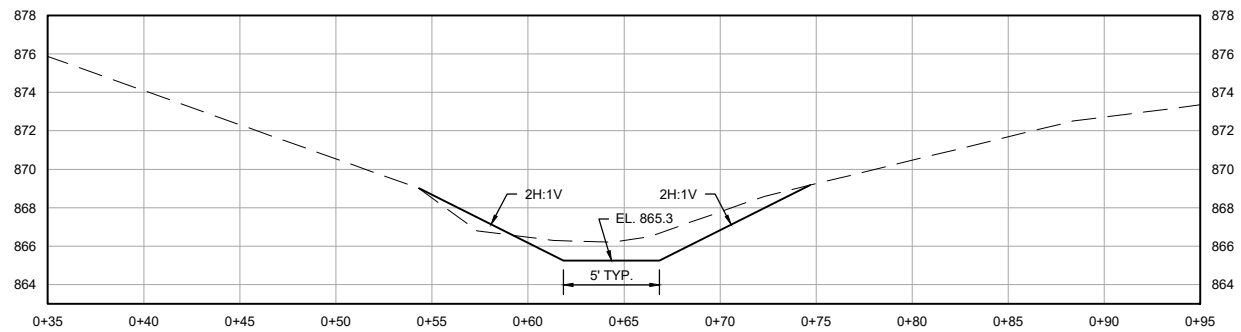
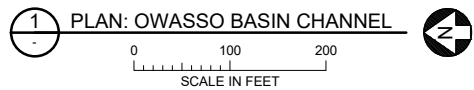
Scale	AS SHOWN
Date	10/27/2020
Drawn	GGN
Checked	
Designed	
Approved	

RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

CAPITAL IMPROVEMENT PROJECT (CIP)
 MAINTENANCE/REPAIRS 2021
OWASSO BASIN IMPROVEMENTS
 CHANNEL CLEANING AND GRADING

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	C-12
REV. No.	A

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ISSUED FOR
PROJECT APPROVAL

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

CLIENT	10/28/20								
BID									
CONSTRUCTION									
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DATE RELEASED									

BARR Engineering Co.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

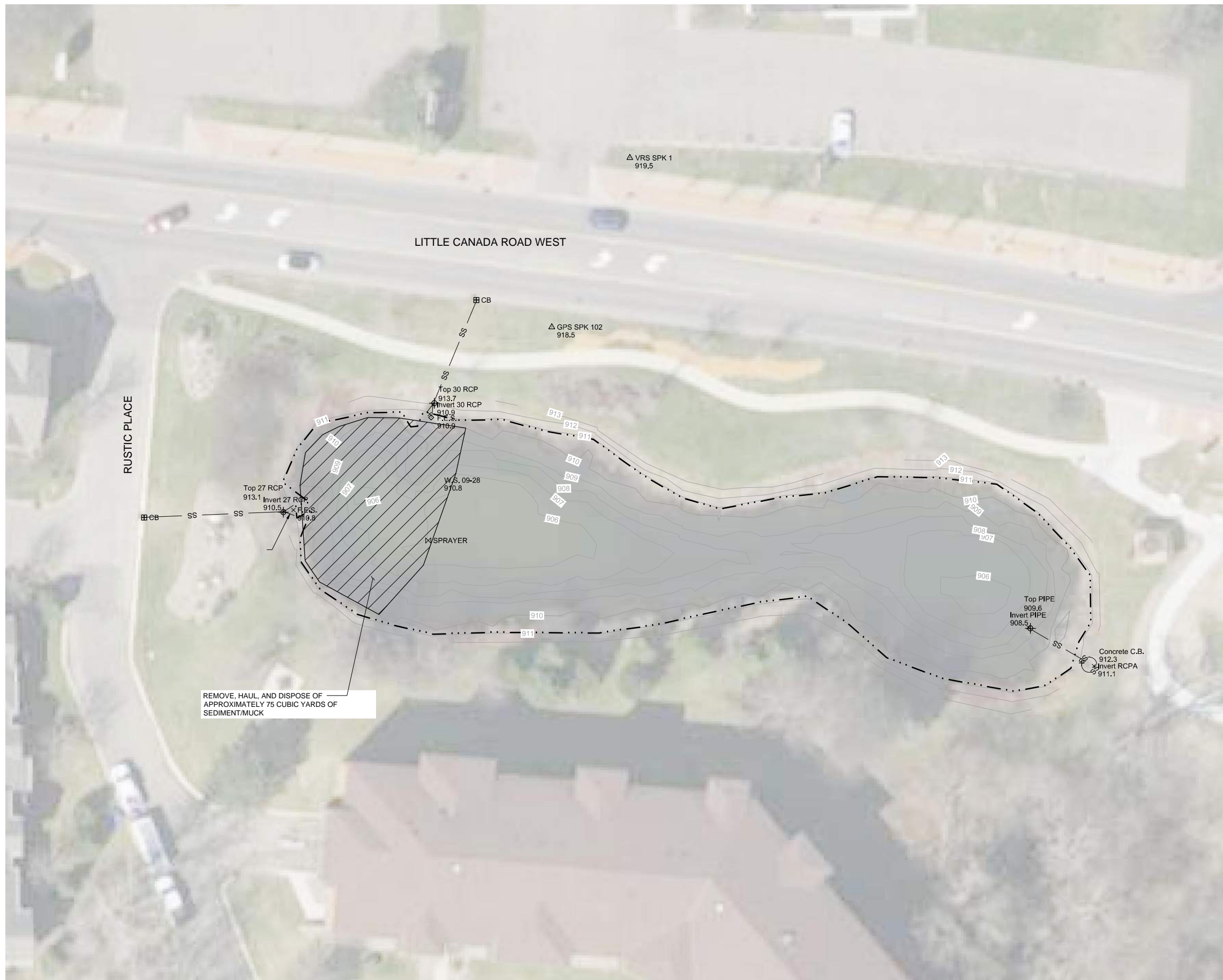
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Date	10/27/2020
Drawn	GGN
Checked	
Designed	
Approved	



**CAPITAL IMPROVEMENT PROJECT (CIP)
MAINTENANCE/REPAIRS 2021**

**OWASSO BASIN IMPROVEMENTS
CHANNEL CLEANING AND GRADING**

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	C-13
REV. No.	A



REMOVE, HAUL, AND DISPOSE OF APPROXIMATELY 75 CUBIC YARDS OF SEDIMENT/MUCK

ISSUED FOR PROJECT APPROVAL

CADD USER: Greg Nelson FILE: M:\DESIGN\23620282\0123620282\C14_LITTLECANADA_ROUNDLAKEPOND.DWG PLOT SCALE: 1/2 PLOT DATE: 10/28/2020 4:38 PM

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: **BRADLEY J. LINDAMAN**

SIGNATURE: _____

DATE: _____ LICENSE # 2217B

CLIENT	10/29								
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

BARR Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435

Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (612) 832-2801
 www.barr.com

Scale	AS SHOWN
Date	10/01/2020
Drawn	GGN/GWB
Checked	GGN
Designed	GGN
Approved	BJL

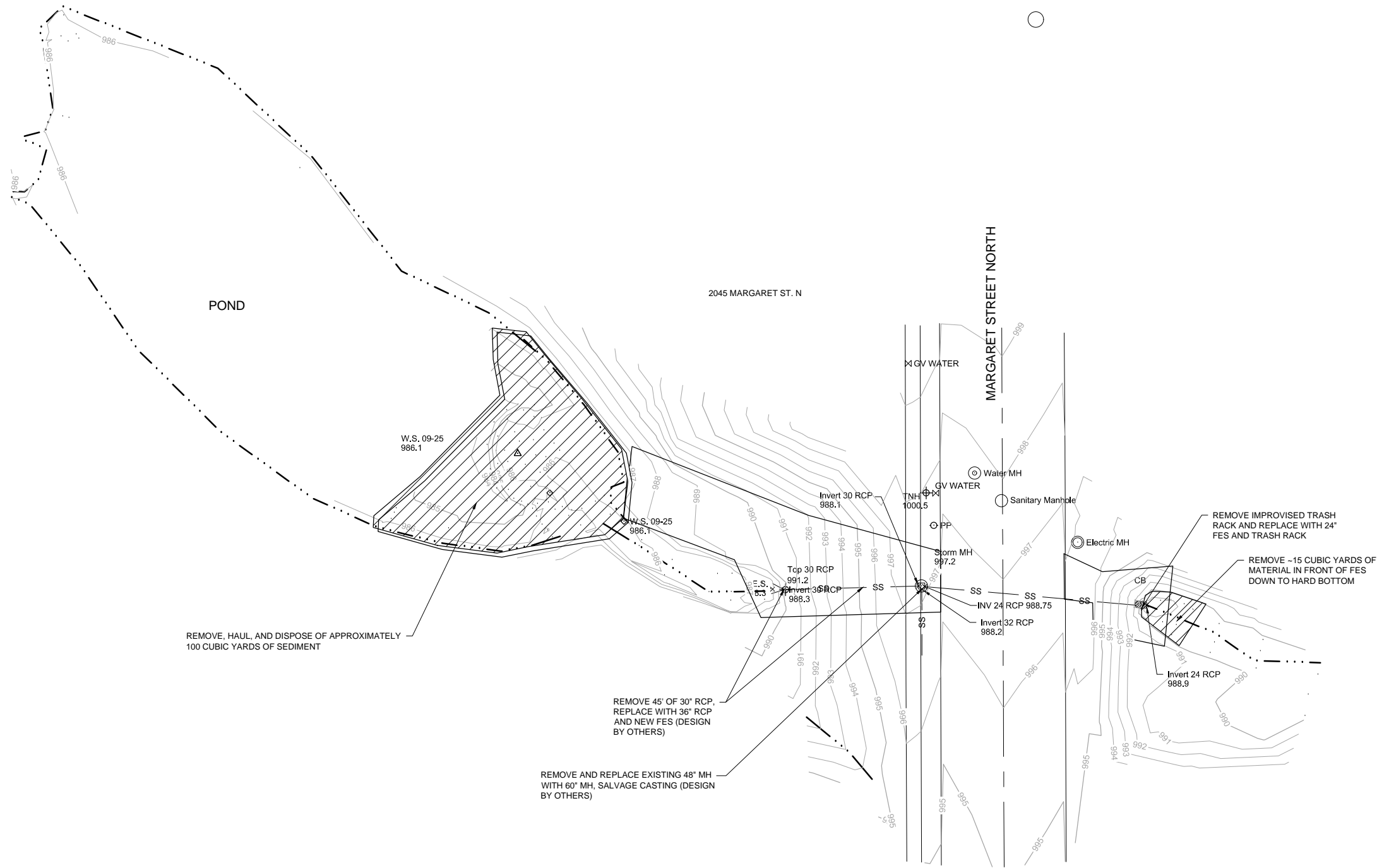
RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

CAPITAL IMPROVEMENT PROJECT (CIP)

SITE 11 - LITTLE CANADA
 POND CLEANOUT

BARR PROJECT No.	23/62-0282.38
CLIENT PROJECT No.	
DWG. No.	C-14
REV. No.	A

CADD USER: Greg Nelson FILE: \\LDESIGN\23620282\012362028238_C15_NSP_MARGARET_POND.DWG PLOT SCALE: 1:2 PLOT DATE: 10/28/2020 4:38PM



1 PLAN: MARGARET POND CLEANOUT AND STORM SEWER UPGRADES



ISSUED FOR PROJECT APPROVAL

					I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: BRADLEY J. LINDAMAN SIGNATURE: _____ DATE: _____ LICENSE # 2217B					CLIENT: 10/29 BID: _____ CONSTRUCTION: _____ RELEASED TO/FOR: _____ DATE RELEASED: _____					BARR Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (652) 832-2801 www.barr.com					Scale: AS SHOWN Date: 10/01/2020 Drawn: GGN/GWB Checked: GGN Designed: GGN Approved: BJL					CAPITAL IMPROVEMENT PROJECT (CIP) BARR PROJECT No. 23/62-0282.38 CLIENT PROJECT No. _____ SITE 12 - NORTH ST. PAUL POND CLEANOUT AND STORM SEWER UPGRADES DWG. No. C-15 REV. No. A				
NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION																								

Request for Board Action

Board Meeting Date: November 4, 2020

Agenda Item No: 7B

Preparer: Tina Carstens, Administrator

Item Description: Keller Channel Weir and Phalen Outlet Resiliency Modification Bid Award

Background:

The purpose of this project is to implement a design that will allow the district to remotely adjust the weir heights on the Keller channel structure and the Phalen outlet structure in accordance with an approved operating plan. Operation of the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain.

At the August board meeting, the board authorized staff to solicit bids for this project. Staff has prepared the bid package and the project is now out for bid. In addition, staff are currently collecting information on system requirements for and configuration for gate operation. The necessary permitting applications have also been submitted. The bid opening will be held on November 2nd. We will review the bids shortly thereafter and present them to the board for consideration at the November 4th meeting. Once a contractor is selected and permits are received, the work will begin. We anticipate a four month construction period.

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 well-being.

Action Item: Cooperate with appropriate stakeholders to identify, assess, and address potential flooding problems in the District.

Staff Recommendation:

Staff recommends that the Board award the project to the responsive bidder whose bid was the lowest and whose involvement would be in the best interest of the District. Staff also recommends the Board direct staff to prepare and mail the Notice of Award, prepare the draft agreement and request and review the required submittals.

Financial Implications:

This construction project will be funded through the Flood Risk Reduction Fund.

Board Action Requested:

Accept the bids and award the Keller Channel Weir and Phalen Outlet Resiliency Modification Project to _____. Direct staff to prepare and mail the notice of award, prepare the draft agreements and review the required submittals.

* * * * *

Administrator's Report

* * * * *

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: November Administrator's Report
DATE: October 29, 2020

A. Meetings Attended

Monday, October 5	1:30 PM	HealthPartners Webinar
Tuesday, October 6	9:00 AM	Water Resources Conference Planning
Wednesday, October 7	8:00 AM	MAWD Annual Meeting Planning
	10:00 AM	Keller/Phalen Outlets Project Meeting
	6:30 PM	Board Meeting
Tuesday, October 13	1:00 PM	Ames Lake Feasibility Study Meeting
Wednesday, October 14	12:00 PM	Gold Line Project Meeting
	1:30 PM	Stewardship Grant Program Discussion
Monday, October 19	1:00 PM	Phalen Creek Daylighting Discussion
Tuesday, October 20	ALL DAY	Water Resources Conference
Wednesday, October 21	ALL DAY	Water Resources Conference
Thursday, October 22	10:00 AM	MAWA Executive Committee Meeting
	2:30 PM	Hillcrest Wetlands Meeting

B. Upcoming Meetings and Dates

MAWD Virtual Annual Meeting	December 1-4, 2020
December Board Meeting	December 2, 2020
January Board Meeting	January 6, 2020

C. CAC By-Laws Update

This is a follow-up from last month's discussion on the CAC by-laws and membership. After the meeting, our attorney suggested a few other minor changes that make the by-laws more consistent with state statute. Attached is a final copy of the by-laws for your information. I have also attached the current CAC membership table that indicates the active membership and their designated representations. To acknowledge that many of our members wear various hats, we have also noted a secondary representation. Staff will be focusing on filling the open seats on the CAC in the coming months.

BY-LAWS
CITIZENS ADVISORY COMMITTEE
OF THE
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

ARTICLE I
NAME AND PURPOSE

The Citizens Advisory (CAC) of the Ramsey-Washington Metro Watershed District is established to advise and assist the Board of Managers and to make recommendations on proposed projects and works of improvement within the District as ~~directed by Section 112 MSA.~~ **outlined in Minnesota Statute Section 103D.331**

ARTICLE II
SCOPE OF AUTHORITY

Section 1. Responsibilities & Activities. The CAC shall develop an annual work program to further District goals and objectives. This work program shall include community projects, assigned tasks, and requests for recommendations from the Board of Managers. The CAC shall be responsible to:

1. Become informed of the programs of the District and provide input on program revisions and evaluation.
2. Complete tasks assigned by the Board of Managers.
3. Make recommendations on District **minutes, reports**, plans, projects, and capital improvements.
4. Engage in fact finding activity and solicit outside advice in making recommendations to Board of Managers.
5. Assist in planning District tours.
6. Assist the District in public education and information activities.
7. Assist the District in public participation and community involvement activities.
8. Be aware of community attitudes on water management issues.
9. Participate in development and review of the District's annual work program and budget.
10. Assist the District with planning and implementation of events including WaterFest and the annual awards dinner.

ARTICLE III COMPOSITION

Section 1. Appointment. The CAC shall be composed of a minimum of twelve (12) members appointed by the Board of Managers. New members may be appointed mid-year as needed. The RWMWD Administrator may approve mid-year additions to the CAC between the board annual appointments. Members can serve until the Board or CAC wish to remove a member, or a member wishes to resign. The CAC recognizes that a diversity of backgrounds, experiences, and perspectives in membership is key to a strong committee that reflects the community. Appointments will consider geographic, and racial, cultural, and socioeconomic diversity, interest group representation and the interest and background qualifications of candidates. Proactive efforts should be made to appoint members from each of the categories. Openings on the CAC shall be advertised, and candidates shall be required to complete an application form. All members have equal standing and voting rights. The CAC membership shall be **considered as more particularly outlined in the statute** as well as considering representatives selected from among the following representative groups:

- Representative from member Cities
- Board of Managers representative
- Business community representative
- Faith based organization representative
- School representative
- Master Gardener, Master Naturalist, and/or Minnesota Water Steward
- Environmental agencies or organizations
- At Large
- ~~Soil and Water Districts~~
- ~~Sporting organizations~~
- ~~Farming organizations~~

Members may represent more than one category **and live in or outside the district, with a preference for members who reside in the district.**

Section 2. Resignation. Resignations from the CAC shall be in writing with the position to be filled for the unexpired term if needed. An email or mailed letter to the CAC Chair or RWMWD staff liaison is acceptable. If a member is absent from four (4) consecutive meetings without excuse, the CAC Chair will discuss with the member their interest in continuing on the committee.

ARTICLE IV OFFICERS

Section 1. Number. The officers of the committee shall consist of a Chairperson, and Vice Chairperson. District staff shall serve as secretary and recorder.

Section 2. Election. The officers of the committee shall be elected at the organizational meeting and each shall hold office until the next organizational meeting. The organizational meeting shall be the first meeting following the District Board of Managers annual meeting (January or February). Officers may be elected to successive terms.

Section 3. Vacancies. A vacancy in the office of Chairperson shall be filled by the Vice Chairperson for the balance of the year. A special election shall fill a vacancy in the office of Vice Chairperson for the balance of the year.

Section 4. Duties. The duties of the officers shall be as follows:

1. Chairperson. The Chairperson shall preside over all meetings of the committee and shall coordinate with the District assigned staff to develop meeting agendas.
2. Vice Chairperson. The Vice Chairperson shall have full authority to act for the Chairperson in their absence and shall become Chairperson if the position is vacated for the balance of the year.

ARTICLE V MEETINGS

Section 1. Regular Meetings. There shall be no fewer than six (6) regular meetings each year, the dates and times to be determined by the membership. The regular meeting place shall be the office of the Watershed District. However, meetings may be conducted at another location if it is deemed advantageous to the business of the committee.

The organizational meeting shall be the first meeting following the Annual Meeting of the Board of Managers and the annual appointment of new CAC members.

Section 2. Special Meetings. Special meetings may be called by the Chairperson. Notice of the time, place, and subject matter of each special meeting shall be given to each member at least seven (7) days before the meeting date.

Section 3. Quorum. A majority of current appointed committee members shall constitute a quorum for the transaction of business at any meeting; and, except as may otherwise be required by these bylaws, the act of a majority of the members present at a meeting at which a quorum is present shall be the act of the committee.

ARTICLE VI REIMBURSEMENTS

Committee members shall serve without pay. However, members shall be reimbursed for expenses incurred for projects undertaken at the direction of the Board of Managers or staff,

for authorized seminar registration fees, and for other expenses as authorized by **statute** and the Board of Managers or staff.

**ARTICLE VII
AMENDMENT PROCEDURE**

These bylaws may be amended, following readings at two (2) meetings, by a two-thirds (2/3) vote of current membership.

**ARTICLE VIII
EFFECTIVE DATE**

These bylaws will become effective upon adoption by a majority of CAC members and ratification by the Board of Managers.

Adopted by the Board of Managers

President

Date

RWMWD CAC MEMBERSHIP - NOVEMBER 2020

Member Cities		Secondary Representation
Maplewood	Mark Gernes	Environmental Agency/Organization
Roseville	Hallie Finucane	Water Steward
Shoreview	Scott Ramsay	
St. Paul	Jill Danner	Master Naturalist
Gem Lake	<i>Open</i>	
Landfall	<i>Open</i>	
Little Canada	<i>Open</i>	
North St. Paul	<i>Open</i>	
Oakdale	<i>Open</i>	
Vadnais Heights	<i>Open</i>	
White Bear Lake	<i>Open</i>	
Woodbury	<i>Open</i>	

Other Representations		Secondary Representation
At Large	Katheryn Keefer	Shoreview
Board Liaison	Cliff Aichinger	North St. Paul
Business Community	Dana Larsen-Ramsay	Shoreview
Environmental Agency/Organization	Jennifer Gruetzman	
Master Gardener	Linda Neilson	Water Steward
Master Naturalist	Karen Wold	Maplewood
School Community	Randee Edmundson	Maplewood
Faith Based Organization Community	<i>Open</i>	
Water Steward	<i>Open</i>	

D. Equity and Inclusion Consultant for RWMWD

This item is a follow up to the discussion at last month's meeting regarding the solicitation of proposals from consultants who help with DEI (Diversity, Equity, Inclusion) work. Staff has met with another consultant; their proposal is attached. This proposal looks at a 12-month time frame of work. This submittal confirms that the budget needed to do this work is similar in the two proposals. This proposal includes similar work but isn't as in-depth as the previous proposal. We will continue to seek out proposals to compare. I will also evaluate the budget need and show that in the revised budget for approval at the December meeting.

**Proposal for Ramsey Washington Metro Watershed District
Strategic Diversity Initiatives
October 26, 2020**

INTRODUCTION

Strategic Diversity Initiatives (SDI) is a certified LGBTQ-owned, women-owned, and minority-owned (certification process in progress) consulting firm with 25 years' experience helping large and small organizations with their Diversity, Equity, and Inclusion (DEI) initiatives, including strategic planning, assessments, coaching, consulting, and training. A list of services, as well as past clients, can be found on our website, *strategicdi.com*.

Drs. Anne Phibbs (Founder, Co-Owner, and Partner) and SooJin Pate (Co-Owner and Partner) of Strategic Diversity Initiatives are excited about the opportunity to partner with Ramsey Washington Metro Watershed District (RWMWD). Together, Anne and SooJin offer **45 years of combined experience** working with a variety of cities, organizations, and companies on a) assessing organizational climate, systems, and procedures, b) guiding organizational changes so that outcomes match intent, c) offering recommendations to increase diversity, equity, and inclusion in the workplace, and d) helping people create authentic connection and meaningful relationships across difference. Please see "Our Core Values & Approach" (attached) for more information on the values that drive and inform our work.

CONSULTANT QUALIFICATIONS

Dr. Anne Phibbs is Founder, Co-owner, and Partner of Strategic Diversity Initiatives and brings over 25 years' experience helping organizations advance their equity, diversity, and inclusion goals. Anne has extensive experience in training, teaching, curriculum development, and training of trainers, and has delivered workshops and classes to participants in corporate, government, higher education, nonprofit, healthcare, and faith community settings. Anne served as GLBT Student Services Director at Metropolitan State University, and at the University of Minnesota she served as Director of the GLBTA Programs Office and Director of Education in the Office for Equity and Diversity. Anne built a successful diversity and inclusion leadership program at the University of Minnesota, with a focus on emotional intelligence (EI), and she is an EI Practitioner certified in the EQ-i2.0 and EQ360 method. Anne earned her PhD in Philosophy and Feminist Studies from the University of Minnesota.

Dr. SooJin Pate is Co-owner and Partner of Strategic Diversity Initiatives and brings 20 years' experience helping organizations advance their equity, diversity, and inclusion goals. She is passionate about increasing diversity, fostering inclusion, and creating access and opportunity for those who have been historically left out in order to level the playing field. Having worked in various industries, SooJin is a subject matter expert in all things DEI, as she has taught courses on race, gender, class, and sexuality within the context of U.S. history and culture at various colleges and universities. An alumna of Howard University, SooJin received her MA in English. She earned her PhD in American Studies at the University of Minnesota, specializing in women of color feminism, critical race theory, and comparative race and ethnic studies (African American, Asian American, Latinx, and American Indian studies). She is the author of *From Orphan to Adoptee: U.S. Empire and Genealogies of Korean Adoption*.

SCOPE OF WORK

I. Comprehensive DEI Climate Assessment

Conducting a DEI Climate Assessment is typically the first step in identifying the strengths and areas for growth regarding diversity, equity, and inclusion at an organization. The DEI Climate Assessment also aids in identifying any barriers that might inhibit a company from functioning as an equitable and inclusive organization. SDI uses the following methods and approaches to provide a baseline understanding of the current organizational climate, relative to DEI:

- **Survey(s):** Employees, board members, and other key stakeholders will be asked to complete an online survey that SDI creates in consultation with the client.
- **Focus Groups:** SDI will conduct one-hour long focus group sessions with different cohorts or affinity groups based on their roles and/or social identities. For each cohort, a general session will be offered, as well as separate sessions for people who identify as BIPOC (Black, indigenous, or people of color), LGBTQ, or disabled.
- **Interviews:** SDI will give employees the opportunity to meet with us individually to provide more in-depth feedback. Past assessments reveal that one-on-one interviews elicit candid feedback, helping to provide SDI with a richer, more nuanced assessment of an organization's culture and climate.
- **Policy/Procedure Review:** SDI will review policies, practices, and procedures through a DEI lens to ensure that none of them are leading to disparities and inequitable practices.
- **Data Collection and Reporting:** SDI will deliver a report, analyzing the data collected from the survey, focus groups, interviews, and/or policy/procedure review. This report will not only provide a "temperature" of the current climate but also include a list of recommendations on how to advance diversity, equity, and inclusion.

Based on the information provided by Lauren Hazenson of RWMWD, SDI recommends the following (all hours are estimates only):

- A. **Survey (5 hours):** In consultation with key staff from RWMWD, SDI will develop and deliver a customized online DEI climate survey for all RWMWD staff. Includes initial data review.
- B. **Focus Groups (7 hours):** SDI will conduct one-hour long virtual focus group listening sessions with a set of identified cohorts. Exact cohorts, as well as focus group questions, will be identified in consultation with key RWMWD staff. Focus group cohorts may include, but are not limited to, the following:
 - Staff who identify as LGBTQ and/or allies
 - Female-identified staff
 - Staff who identify as living with a disability
 - Members from the Citizen Advisory Committee
 - Community Partners
 - Board of Managers
 - General sessions open to all

- C. **Interviews (6 hours):** In order to provide employees with multiple opportunities for engagement, SDI recommends providing this option for those who may be less comfortable speaking in a group setting. Furthermore, in consultation with key RWMWD staff, SDI will set up interviews with key stakeholders (e.g., leaders, board members, community members, etc.) to provide more in-depth feedback.
- D. **Policy/Procedure Review (20):** SDI will review RWMWD’s policies, practices, and procedures regarding hiring, performance reviews, promotions, community outreach, etc., through a DEI lens to identify potential barriers to diversity, equity, and inclusion in order to eliminate disparities and inequitable practices.
- E. **Data Collection and Reporting (30 hours):** SDI will deliver a report, analyzing the data collected from the survey, focus groups, and interviews. This report will not only provide a “temperature” of the current climate but also include a list of recommendations on how to advance DEI work at RWMWD. These recommendations can serve to inform RWMWD’s DEI road mapping/strategic planning efforts.

Fee: \$23,800 (68 hours x \$350/hour); half of fee to be paid up front, with remainder due at completion of work. SDI will track hours and, if fewer than 68 hours are required, the reduced fee will be reflected in the second and final invoice. If additional hours are required, SDI will secure approval from RWMWD to invoice for that work.

Based on the findings from the Comprehensive DEI Climate Assessment, SDI will work with RWMWD to implement the key recommendations into their strategic plan. SDI will collaborate with RWMWD to come up with the best approach. Here’s one approach based on the model below:

II. DEI Strategic Planning Package

Step 1

- Identify DEI Strategic Planning Committee to develop the DEI strategic planning process
- Create timeline and communications plan that is open and transparent to nurture honesty and trust for strategic planning process
- Consider how to ensure buy-in from stakeholders and constituents

Estimated hours: 15 x \$350 = \$5,250

Step 2

DEI Strategic Planning Retreat (virtual or in-person) (1.5 days) that includes the following:

- Morning training to level-set all who engage in DEI strategic planning work
- Afternoon strategic planning with all stakeholders (may need to meet again to complete planning), to include insights/feedback from DEI Climate Assessment

Fee: \$15,000 for 1.5 day-long retreat with 2 consultants, includes all planning, training, and materials.

Step 3

- SDI develops and delivers a draft of a 2-3 year DEI Strategic Plan, gaining feedback from Planning Committee and key stakeholders
- SDI revises draft to reflect feedback received from key stakeholders
- SDI develops and delivers written final of a 2-3 year DEI Strategic Plan

Estimated hours: 30 x \$350 = \$10,500

PRICING FOR DEI STRATEGIC PLANNING

- Steps 1-3: \$30,750 (includes all planning, training, materials, and delivery of final DEI Strategic Plan)

TOTAL PROPOSED FEE: \$54,550

- I. Comprehensive DEI Climate Assessment: \$23,800
- II. DEI Strategic Planning: \$30,750



OUR CORE VALUES & APPROACH

Collaboration:

Our approach is to work closely with our clients to ensure they feel satisfied with the outcome. We view this work as a true partnership, and plan to engage all parts of the organization with respect and transparency.

Intersectionality

Our approach to DEI work is intersectional. We recognize that all our social identities, including race & ethnicity, gender, disability, sexual orientation, age, religion, class, nationality, etc. impact how we move in the world, how we are treated, and what resources we are able to access. But this impact may look different depending on the particular social identity. Our approach recognizes the complexity and nuance of social identities in our lives, and how bias and exclusion around all identities must be addressed.

Antiracism

Our approach to DEI work is antiracist. The presence of racial disparities in our country, society, and workplaces proves that racism is alive and well. The remedy to racism is antiracism, which Ibram Kendi defines as “a powerful collection of antiracist policies that lead to racial equity and are substantiated by antiracist ideas” (*How to be an Antiracist*). That said, antiracists work to eliminate racist ideas, policies, and conditions through an intersectional approach, since race and racism intersect with other social identities (e.g., gender, class, sexuality, religion, disability, etc.). Strategic Diversity Initiatives is committed to helping organizations be antiracist in their policies, ideas, and ways of thinking in order to eliminate racial disparities and achieve equity.

Accessibility, Transparency & Humility

We will create an accessible and transparent process for this work. This requires a strong partnership between Strategic Diversity Initiatives and our clients, and we will welcome open and honest communication in all parts of this work and from everyone involved. Our approach prioritizes accountability and humility. We know we are all in this together.

Emotional Intelligence

We recognize that this is lifelong work. We also acknowledge that advocating for DEI can cause interpersonal conflict and strain, as we know that those speaking up for diversity, equity, and inclusion can face both direct and subtle pushback from those who do not want change. For these reasons, it is especially important that we recognize and manage our own emotions and are able to recognize and work with the emotions of others. This “emotional intelligence” allows champions and allies to stay in the work longer by setting boundaries, taking care of themselves, and avoiding burnout. Emotional intelligence also helps us prioritize the relational nature of diversity, equity, and inclusion work.

Thinking and Acting Strategically

Success around diversity, inclusion, and social justice is achieved only when every part of an organization or community views its work and goals through a DEI lens. This organizational transformation will take time, commitment, and effort. And it is critical that this work is approached strategically, keeping in mind what resources are available, what barriers exist, and how best an organization can build capacity. Strategic Diversity Initiatives will help its clients think – and act – strategically, ensuring resources and people power are used to build capacity to continue their critical DEI efforts.

Leadership Development

DEI efforts require not just allies – but leaders. Yet many who care deeply about DEI efforts are reticent to label themselves a leader in this area. Strategic Diversity Initiatives is committed to building capacity for DEI work with a customized leadership development model that identifies leaders in all areas of an organization and develops their capacity as DEI leaders and champions.

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Project and Program Status Reports

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Memorandum

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – November 2020
Date: October 29, 2020

Project feasibility studies

Owasso basin flood risk reduction feasibility study (Barr project manager: Sam Redinger; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of redirecting runoff from the Owasso basin upstream drainage area by reviewing potential pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the floodplain in this area.

This period, Barr finished compiling project elements into a comprehensive technical memorandum. The information in this study will be used to guide the phased approach for the area, which was discussed with the managers at the September board meeting. Implementation of various portions of the study will be ongoing in future years. However, project summaries, refined cost estimates, and the proposed schedule will be presented to the board prior to completion of significant work.

West Vadnais to South I-694 conveyance feasibility study (Barr project manager: Sam Redinger; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the feasibility of constructing a larger discharge pipeline that could be used to draw down West Vadnais Lake when conditions allow and/or when downstream improvements are implemented. The goal is to establish the normal water level of the system at elevation 881.0 and the 100-year flood level at elevation 884.0 without increasing flood levels downstream.

This period, Barr continued incorporating changes into the final technical memorandum as described in the responses to board comments that were shared with the managers at the August board meeting. The final version of the memorandum will be posted to the RWMWD website soon.

Willow Creek flood risk reduction feasibility study (Barr project managers: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes in the Willow Lake area by reviewing potential pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the floodplain in this area.

This period, Barr continued to evaluate the effectiveness of increasing storage in the golf course areas upstream of the low-lying homes to lower the flood level of the wetland complex east of Highway 61. We will also evaluate the effectiveness of increasing storage near Willow Lake itself to increase flood capacity downstream during large storm events passing through the Phalen Chain of Lakes. The draft technical memorandum will be posted to the RWMWD website soon. Implementation of various portions of the study will be ongoing in future years. However, project summaries, refined cost estimates, and the proposed schedule will be presented to the board prior to completion of significant work.

Ames Lake flood risk reduction feasibility study (Barr project managers: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes that would remove habitable structures from the floodplain in this area. This study will be phased. The first phase will involve communications with the City of Saint Paul about how to approach flood management in this area, which involves both regional and localized flooding issues. The second phase (if pursued) will encompass reviewing potential pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective, as defined in partnership with the city.

On October 6, Barr and District staff met with the City of Saint Paul Water Resources Working Group, which is comprised of staff from Public Works, Parks, Zoning, and Planning. We provided an overview of the flood-prone areas around Ames Lake and discussed the upcoming feasibility study to further evaluate the area's drainage system. Staff then met with additional Saint Paul staff on October 13 to review the feasibility study scope. We discussed study tasks, including initial data collection. One of the initial tasks is to confirm the elevation of low structures in the area. City staff requested to review the property owner notification letters prior to contacting residents. Following the meeting, Barr provided a sample letter to the city for review. We anticipate that data collection will begin later this fall, following receipt of comments from city staff. During the coordination meetings, Barr also discussed that the city may need to evaluate and implement many of the conceptual improvement options (mentioned in the resiliency study) for this area, with guidance and technical assistance from the RWMWD. Collaboration with City of Saint Paul representatives is expected to continue in 2021.

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.

Barr addressed DNR comments on the preliminary hydraulic models, and we have provided updated models, supporting documentation, and comment responses. This month, the DNR notified Barr that model review was underway, but that no significant changes were anticipated. We are waiting for final acceptance from the DNR before submitting draft floodplain inundation files.

Barr began developing floodplain inundation files according to DNR methodology. We expect that draft geographic information system (GIS) files will be submitted for DNR review in November. Due to the DNR's extended review of the first draft of the stormwater model, the project schedule was also extended and will now continue into 2021.

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

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

On September 30, the RWMWD and Barr hosted a virtual workshop for the City of Saint Paul and Saint Paul Port Authority to discuss various project options that involve coordinating stormwater management both on and off the former golf course site. We presented green infrastructure and other options that would help preserve wetlands and other natural features across the site and facilitated discussion about various stormwater management options.

Subwatershed feasibility studies (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to evaluate best management practice (BMP) opportunities throughout the Gervais Creek and Fish Creek subwatersheds. These lakes are all considered to be "at risk" for nutrient impairment.

Barr presented the highlights of these studies at the October board meeting. Since then, we finalized the subwatershed reports, which are now posted to the RWMWD website. The report recommendations will be considered in the prioritization effort and planned/budgeted as appropriate in the future.

Capital improvements

Targeted retrofit projects (Barr project manager: Matt Kumka and 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 on previously identified commercial, school, and faith-based properties throughout the RWMWD.

Construction of permeable pavements is now complete at the East Side Boys and Girls Club, and a final walk-through has been performed. Construction warranty, including the beginning of the one-year planting establishment period, has begun. Despite construction delays, the project appears to be a full success and has allowed the RWMWD to assist an important community resource while improving water quality.

The first phase of construction of the retrofit project at the East Saint Paul site (Suburban Avenue Target) was completed in mid-October. Completion of the second phase is expected in mid-November; the contractor has requested an extension of the substantial completion date to November 15, 2020

Included in the consent agenda is signed change order #2 for the project. The changes include:

The trees and plantings are scheduled to be installed in spring 2021. We have resumed design development for the North Saint Paul site and will complete draft construction plans for the RWMWD and Target to review this fall.

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

The objective of this current investigation is to develop one or more conceptual designs that will fit within the footprint of the existing Kohlman basin permeable weir. The revised design should provide filtration capacity and remove solids and phosphorus.

The current design uses an upstream flow treatment cell approach. This design will first be tested as two 12-foot cells. A conceptual design drawing has been submitted for inclusion in the 2021 CIP. Project activities during this period included design review and implementation options for 2021.

Keller channel weir and Phalen outlet resiliency modifications (Barr project manager: Greg Nelson; RWMWD project manager: Tina Carstens)

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

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report November 2020
Date: October 29, 2020

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This period, Barr prepared the bid package, and the project is now out for bid. In addition, we are currently collecting information on system requirements for and configuration of gate operation. The necessary permitting applications have also been submitted. Bids will be opened on November 2 and will be offered to the managers for consideration at the November board meeting. If appropriate, the board should consider a motion that accepts the bids and awards the work to the lowest responsive and responsible bidder, and should direct staff to prepare contract documents and request relevant submittals. Once a contractor is selected and permits are received, the work will begin. We anticipate a four-month construction period.

Twin Lake outlet construction (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this project is to design and construct an outlet system and develop an outlet operating plan in accordance with feasibility study recommendations. The outlet and associated operating plan help reduce flood risk to habitable structures in the Twin Lake watershed in Little Canada and Vadnais Heights.

There has been no activity since August 24. The one remaining item is installation of the drop-down weir. Production of the weir was delayed due to the COVID-19 pandemic; the contractor anticipates that it will be available and installed in November. Following installation, Barr will complete a site walk-through with the City of Little Canada to review operation of the weir, and to confirm that city staff are able to open and close the outlet prior to final project completion.

As previously mentioned, following construction, the City of Little Canada will handle outlet operation as well as manhole and culvert maintenance, in accordance with the operating plan. The RWMWD is responsible for maintenance of the conveyance ditch from the railroad to the outlet. Details regarding operation and maintenance responsibilities will continue to be developed over the next few months.

CIP project repair and maintenance

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

The purpose of this project is to maintain 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.

Fitzgerald Excavating & Trucking, Inc. has now completed the project, and final payment has been provided to the contractor. Barr will finalize all remaining documentation to close out the contract.

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

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

As previously mentioned, based on our preliminary findings, a few specific defects warrant consideration for near-term rehabilitation. The repairs are localized and specific and outside of the previous project repair extents. These repairs will be completed and a comprehensive inspection report provided this winter, when flows subside and the tunnel can be accessed safely.

Lake studies

Internal load management discussions (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The primary objective of this study is to develop an overall assessment of a number of at-risk or total maximum daily load (TMDL) lakes with respect to the magnitude of internal phosphorus loads, benefits of controlling internal loads, and potential internal-load mitigation approaches.

Sediment coring of several lakes (Emily, Owasso, Battle Creek Lake, Beaver, Round, Kohlman, Bennet, and Wakefield) was completed in late May, and core testing produced data to help advance the study. Barr and the RWMWD are organizing and analyzing the data to develop an approach for improving the water quality of shallow and deep lakes by better controlling their internal nutrient loads. Efforts during this period included preliminary development of a simplified approach to model internal phosphorus load contribution to surface waters of deep and shallow lakes. Progress was made on Lake Owasso in determining if internal loads reach the lake surface during a typical year. Sediment data was evaluated, and internal loading during 2019 was estimated for each lake using a new model, sediment chemistry data, and in-lake dissolved oxygen and temperature monitoring data.

Project prioritization study (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)

The objective of this effort is to develop a prioritization method that can be used to compare and prioritize projects across three main RWMWD projects types: water quality, flood risk reduction, and natural resource restoration.

This period, Barr and the RWMWD updated the draft prioritization framework tool that the RWMWD can use to assess potential watershed projects according to quantitative and qualitative metrics and other project features based on managers' feedback at the October board meeting. Ultimately, the tool ranks projects from highest priority to lowest priority across the categories of water quality, and flood risk reduction so that RWMWD staff and managers can plan for future work using an objective methodology that aligns with their priorities. The updated technical memorandum describing the proposed framework will be posted to the RWMWD website soon. The Board is encouraged to provide any remaining comments on the proposed prioritization framework to District staff prior to the December Board meeting.

New technology review

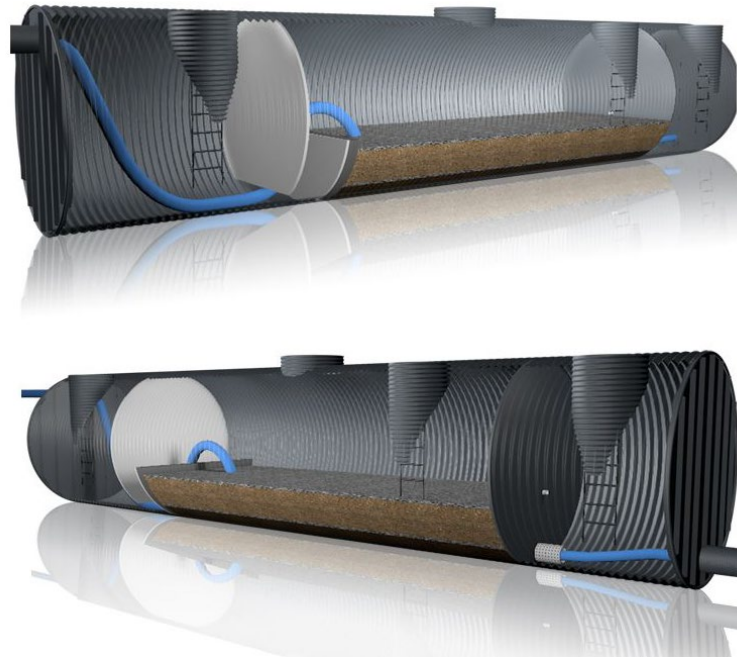
Corrugated metal pipe sand filter by Lane Enterprises, Inc.

Innovative technology	<ul style="list-style-type: none"> ▪ Updated corrugated metal pipe for underground stormwater storage and filtration ▪ Prefabricated structure could be used in place of reinforced concrete with reduced expense due to easy delivery and installation
Use	<ul style="list-style-type: none"> ▪ Reduces sediment and pollution loading from non-point source stormwater runoff ▪ More effective at floatable and heavy sediment removal rather than dissolved pollutants
Benefits of technology	<ul style="list-style-type: none"> ▪ Total suspended solids removal ▪ Total petroleum hydrocarbon removal ▪ Provides some peak flow reduction through total storage volume ▪ Low resuspension of fine sediments ▪ Phosphorus removal as a product of total suspended solids removal ▪ Multi-purpose land use when installed with traffic loading specifications ▪ Modular for a variety of site-specific applications, including linear road rebuild projects
Drawbacks:	<ul style="list-style-type: none"> ▪ Limited dissolved phosphorus and nitrogen removal with sand installation ▪ Underground BMP complicates maintenance
Suppliers/contacts	<p>Lane Enterprises, Inc. 3905 Hartzdale Drive, Suite 514 Camp Hill, PA www.lane-enterprises.com</p>
Conclusion	<ul style="list-style-type: none"> ▪ Provides moderate pollutant removal from stormwater runoff but with limited dissolved phosphorus removal rates ▪ Provides volume reduction with stormwater quality improvement where filtration in existing soils is not possible ▪ Best used in areas where space is limited and restrictive of other BMP options ▪ Strict maintenance regimen is required to maintain effectiveness (approximately yearly) ▪ Potential for modification and use with enhanced filtration media such as iron-enhanced sand

Technology description:

Throughout the RWMWD, municipalities and other organizations are moving their stormwater treatment storage and filtration systems below ground to save usable space above. Corrugated pipe systems have become a mainstay of the design solution toolbox. Typically, these corrugated systems rely on volume reduction, pretreatment, and settling to provide stormwater quality improvement.

Where possible, these systems are situated in permeable soils to allow for infiltration. Lane's corrugated metal pipe sand filter provides a mechanism to intercept stormwater flow, remove pollutants, and discharge treated flow in a way that simpler corrugated pipe systems do not.



*Figure 1: Prefabricated corrugated metal pipe offers storage plus additional **total suspended solids** removal via a sand filtration layer. Baffles and access structures are added to the readily available pipe.*

The structure itself is made from treated steel to slow corrosion over time. This system is a three-chamber system consisting of a sediment chamber, a sand bed filter, and a clear well. Although multiple configurations are possible, figure 1 above shows a typical 6- or 8-foot-diameter model with an internal bypass.

TSS	70-85%
TP	50-60%
TN	30-40%
HYDROCARBONS	70-85%
FECAL COLIFORM	75-85%
HEAVY METALS	50-65%
PATHOGENS	40-50%
BOD	70-80%

Figure 2: Manufacturer-provided removal rates; enhanced media installation would provide improved benefit, including higher total phosphorus removal rates.

Design criteria

Similar in design to the DC sand filter, a long-standing design concept that used a concrete box as its structural component, this design is intended to treat stormwater that is conveyed through a storm drainage system. Configurations in an inline configuration may contain an internal bypass, but more likely may require an external bypass to prevent comingling the higher flows with the water quality volume. This system may be used in an offline configuration with an upstream diversion chamber. The storm drain serves as an external bypass for when flows exceed the filter's hydraulic capacity for drawdown.

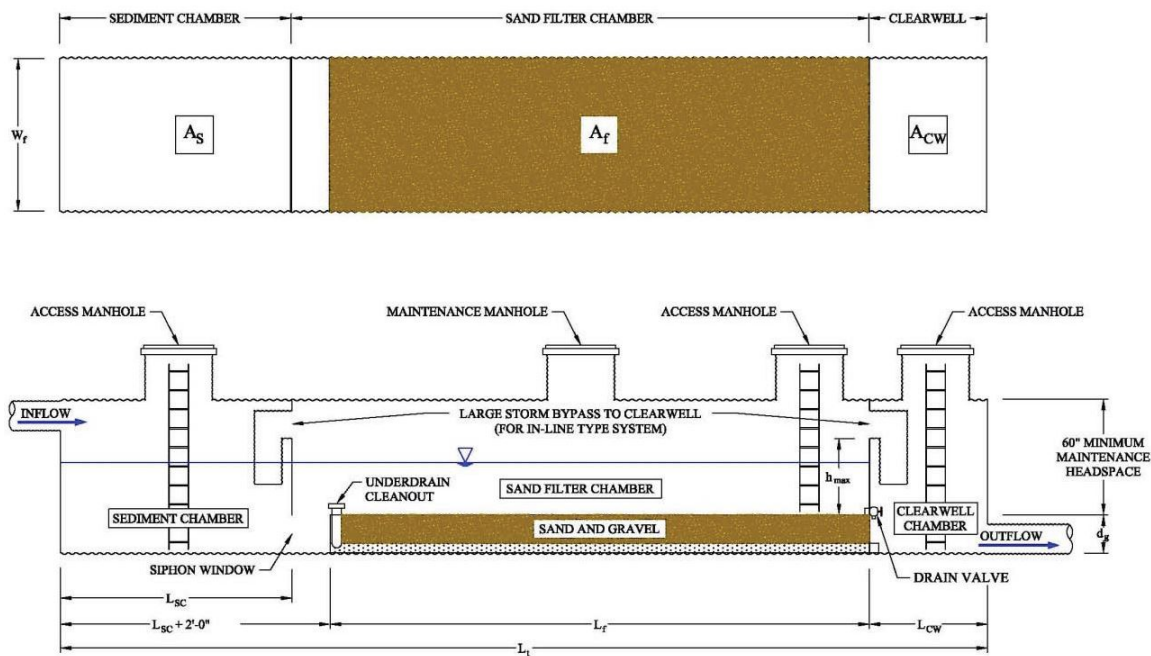


Figure 3: inline configuration schematic

The complete system requires proper excavation and bedding, which is comprised of compacted crushed aggregate and sand. Manufacturer-approved pipe connection devices include adapters to tie into existing storm sewer networks and between units. For implementation underneath parking lots or other trafficked areas, H-20 traffic loading compliance is required, including appropriate load distribution design.

Although referenced briefly in the provided design materials from the manufacturer, little research has been done into the use of enhanced filtration media in this particular system. Further consultation with the manufacturer would be recommended, but theoretically, the installation of this product using iron-enhanced sand for dissolved phosphorus capture would be feasible. Nothing about the material's physical property would complicate installation. Design considerations regarding contact times would be needed to ensure appropriate inundation duration and protect efficacy of enhanced media.

Maintenance

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report November 2020
Date: October 29, 2020

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This corrugated metal pipe sand filter includes prefabricated manhole access to each compartment for inspection and maintenance. The system also includes an underdrain cleanout and a filter chamber drain valve to help facilitate maintenance should the filter bed become clogged or otherwise slow to drain over years of use. Typically, sand filters begin to experience maintenance demands within three to five years, although local ordinances may require more frequent maintenance. A filter bed should drain completely in about 40 hours after the end of a rain event. Periodically monitoring dewatering times will help determine when maintenance measures are needed. Standard maintenance operations include removing accumulated sediment and raking the first inch of sand. Usually, cultivating the top layer of sand will restore the drainage and filter characteristics of the filter bed, but at times, the top few inches of media may require removal and replacement.

Conclusion

Throughout the RWMWD, similar structures are being installed for cost-share grants and to meet permit requirements for volume and water quality improvements. This prefabricated corrugated metal pipe sand filter system could potentially improve water quality where infiltration is not possible in existing soils. The expected cost of the system would be increased to those that do not employ the media, but relatively simple construction methods make for a somewhat foolproof and seemingly effective technology for both volume reduction and water quality benefit. If one was to be installed with enhanced filtration media, further improvements (including total phosphorus reduction) would be realized.

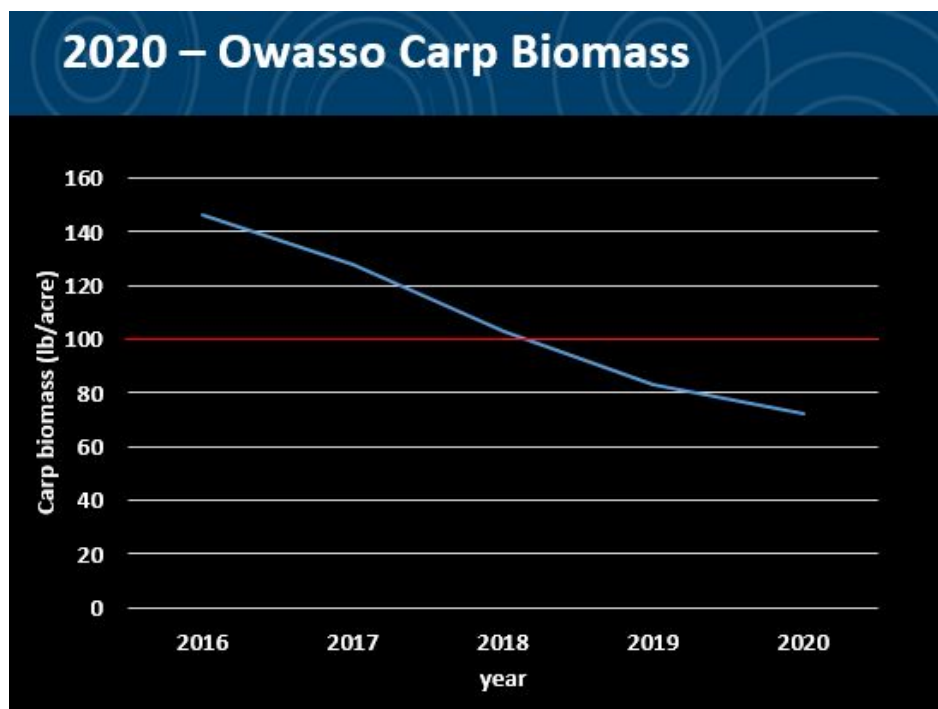
Natural Resources Update – Bill Bartodziej, Matt Doneux, and Simba Blood

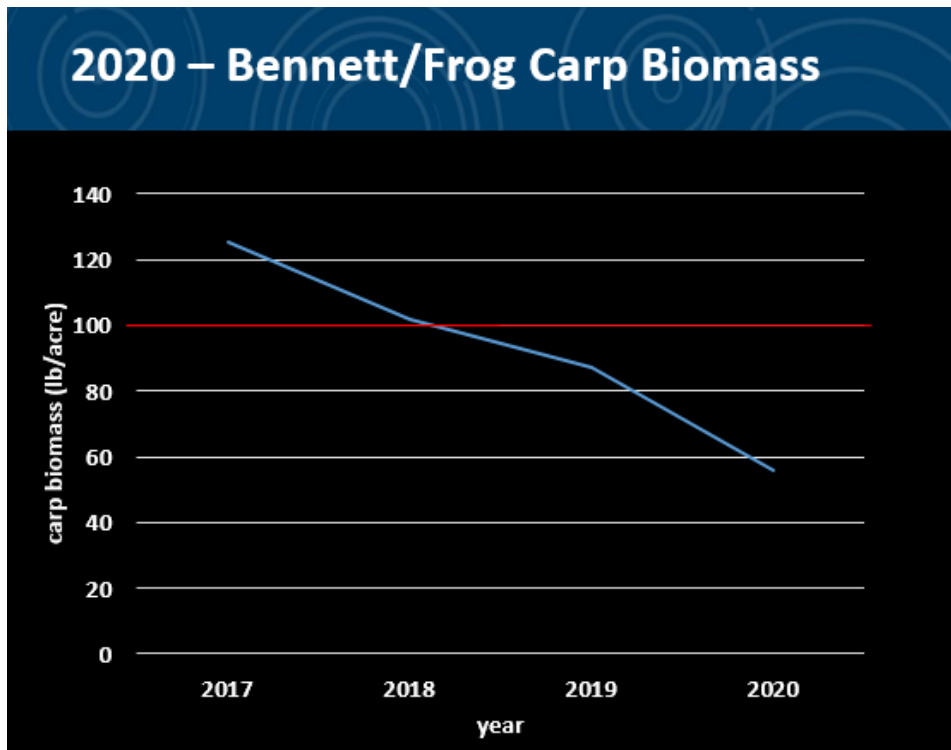
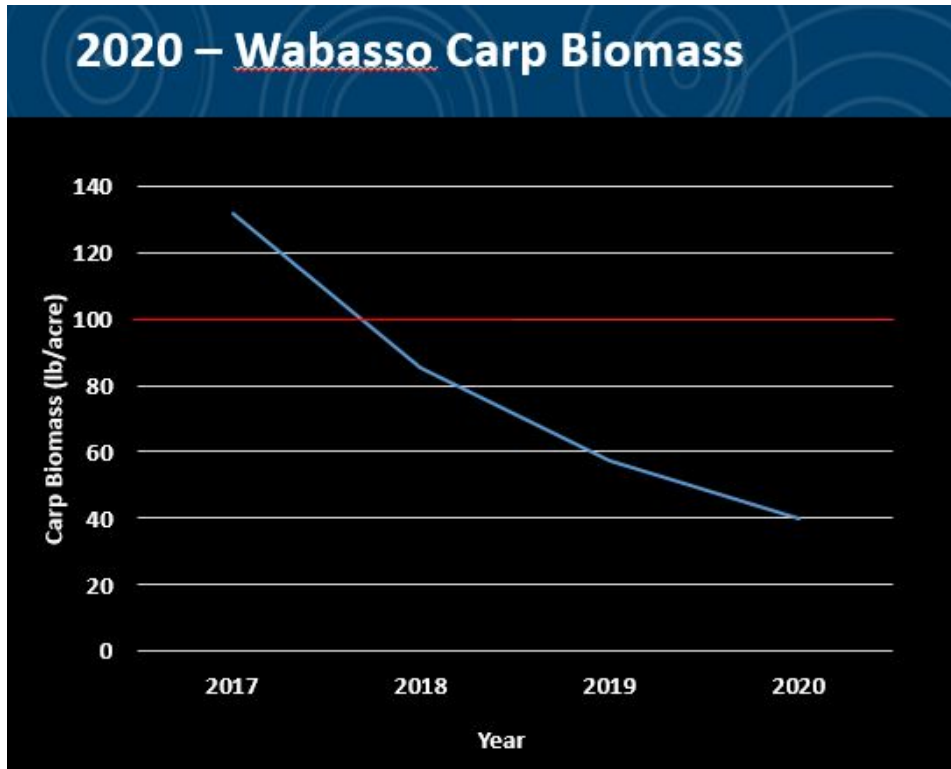
Carp Management in the Owasso Chain – Recap

Gladly, the carp management program on the Owasso Chain was not hindered by the pandemic work protocols. NR and Carp Solutions staff were able to complete the major tasks slated for the year. Electro-fishing surveys took place, barriers were installed and maintained, and box netting was implemented. Below are highlights for the year and a few graphs with supporting data:

Lake System	Barrier	Box Net
Owasso	505	247
Wabasso	263	0 (no net set)
Bennett/Frog Pond	54	190
Totals =	822 (65%)	437 (35%)

- This year, we removed a total of 1,259 adult carp (averaging 5 lbs) out of the Owasso Chain.
- 65% of the total carp captured were netted at the PVC barriers.
- The harvesting of carp during the spring migration at the installed barriers is becoming an economical and efficient way to reduce the population.
- In all of the lake systems managed, carp biomass is now below the 100 lb/acre threshold where substantial water quality and ecological impacts take place (see preliminary charts below).





This winter, we will continue to assess data and plan for the 2021 management activities. We might be at the point where we have enough data to publish in a lake or fisheries management journal. This will be discussed with Carp Solutions staff. Some of the 2021 activities that we will be discussing and detailing are listed below:

- Continue electro-fishing assessments for population estimates
- Fine tune harvesting at the barriers.
- Develop a harvesting plan for Grass Lake. This will be a challenge with access, the soft substrate, and the large, mobile cattail mats.
- Install our first electric barrier at the West Vadnais outlet. This will be a low-voltage setup that is safe, but still effective at keeping carp from migrating out of West Vadnais and into the Phalen Chain.



Wabasso inlet – we captured 505 carp at this barrier in the spring.

Public Involvement and Education Program – Sage Passi

“Junior” Water Stewards Explore our Office BMP’s and Visit Gervais Creek



Left: A “junior” Water Steward team tests the water at Gervais Creek. Right: At RWMWD’s office the team explored our BMP’s including the pervious pavers, green roof, rain gardens.

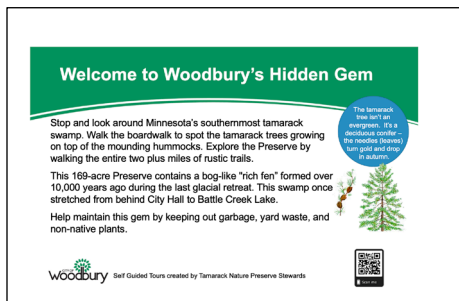
With Covid, interacting and providing education for school age youth has dramatically changed since March. It was very satisfying to host a pod of five middle school aged youth from a NE Minneapolis charter school who came to our office site this fall to learn about water quality along with Mississippi Water Management Organization (MWMO) Water Steward, Ron Hiner. He takes turns with other parents in the group in a weekly effort to enhance their children’s virtual learning experience by taking this “pod” of friends outdoors every Friday outdoors to engage in service learning projects around the community.

Ron helped us plant seedlings at Snail Lake Regional Park several weeks ago and approached us about hosting a day-long outdoor learning experience for his team of youth to learn more about water and habitats in our watershed. The group toured our office site BMPs, did a native plant bingo in our gardens, tried out several water monitoring tools, and then trekked down Gervais Creek to collect water samples. In the afternoon, their service learning experience culminated in assisting us with tending Farnsworth Aerospace’s native garden in St. Paul. A win-win for all! We love working with youth outdoors! This teamwork with Water Stewards is a big plus!

Self-Guided Tour at the New Boardwalk at Tamarack Nature Preserve

A big shout out goes to Stephanie Wang, Angie Hong and Dana Boyle who worked with the watershed to organize a self-guided tour experience at Tamarack Nature Preserve that was kicked off on October 15 to celebrate and culminate the completion of the new boardwalk. Stephanie worked with Carrie Magnuson, Woodbury city staff and Sage to develop temporary signage, wayfinding and interpretive trail signs that were installed around the site. Angie Hong develop an interactive Hidden Mystery Tour in

the Preserve. About an estimated thirty-five families or more participated in that adventure with hidden clues and prizes that were sent afterwards to participants. The City of Woodbury asked us to keep the signs up for several weeks to allow for more interaction and learning so they will be up until November 9. The themes for these educational signs include the following: Welcome to Woodbury's Hidden Gem; Help Protect the Wetland Plants of the Preserve; Inhabitants of the Preserve (with links to apps); Identify and Prevent the Spread of Invasive Plants; Wetlands including trail advisories, What is a Rich Fen, Plant Communities in Tamarack, Watershed Moments (with maps of how the water flows in the watershed, Facts about the Water Treatment Plant (located near the mail trailhead to the Preserve), TNP Flora and Fauna, and what was Woodbury's Original Landcover (with information about the PFS ponds).



Adopt-A-Drain Signs Delivered to Fifteen Subwatersheds in RWMWD



Rachel Hanks, St. Paul Water Steward delivered Adopt-A-Drains signs to 27 residents in the Lake Owasso subwatershed in Roseville and Shoreview. Thanks a lot, Rachel, Linda Neilson, Paul Gardner, Hallie Finucane, and Anna Barker for your assistance!

As of early October, RWMWD has 686 drains that are officially adopted in our watershed through the Adopt-A-Drain program run by the Center for Global Environmental Education. We officially joined the program three years ago. Up until now, with our contract with Hamline University, yard signs were only offered to participants in the subwatersheds in St. Paul. In an effort to acknowledge and connect with adopters in the other 15 subwatersheds in RWMWD and make this program visible, we ordered yard signs for these 168 adopters and sent out a Mail Chimp announcing our plans to deliver signs to them in late October. Thank you to the five Water Stewards who took these signs to homes where people have adopted drains in the following cities: White Bear Lake, Maplewood, Little Canada, Shoreview, Roseville, Woodbury and Oakdale. The signs were customized for these additional lakes and creeks: Gervais Lake and Gervais Creek, Willow Creek, Bennett Lake, Lake Owasso, Battle Creek Lake, Snail Lake, Grass Lake, Kohlman Creek, Sucker Lake, Carver Lake, Lake Emily and Twin Lake.

A Water Steward Capstone Project Emerges in Roseville by Willow Pond



Left: A large native planting near Willow Pond. Right: the shoreline project at the Bauer's in progress.

Lee and Paul Bauer have been stewards of Willow Pond in Roseville for a long time. Their home has been the vortex for bringing together 30 plus neighbors to talk about how to care for their pond, how they appreciate it and to discuss issues they were seeing about its water quality and habitats. When we first met Lee and Paul through Hallie Finucane and Linda Neilson's efforts at developing a capstone project during this first year of the Water Stewards program five years ago, we met with these homeowners to discuss the possibility of a rain garden in their front lot that would take street run-off with curb cuts. It was a highly visible site, adjacent to several stormdrains and they were leaders in their community so it seemed like a win-win. But a gas line thwarted the project and Linda and Hallie went on to work with some other activists in the Bennett subwatershed for their capstone rain garden installation. At that same time, when we sat down with Lee and Paul, they were interested in exploring the idea of restoring their shoreline along Willow Pond. Those hopes did not die on the vine despite the obstacles.

It took five years for the projects to gestate and finally get into the ground, but in the meantime Lee enrolled in the Water Steward Program this year and expanded her activism and educational collaboration with a team of three other Roseville Water Stewards in her neighborhood. As their engagement grew, so did the idea of doing the shoreline project and a native planting with hopefully a rain garden down the road at the Bauers' residence with a possible way around the gas line obstacle. Their dream came true late this fall just before the snow fell in mid-October. Lee worked with Ramsey County Parks and Recreation landscape designer, Michael Schumann and Sage Passi to come up with a planting plan that included over 600 native plants in their front yard and a robust planting plan for their shoreline restoration. They have long been engaged in planting native flowers in their yard, but this front native garden is going to be spectacular and more visible to the public. Now, since the middle of October they have a huge native garden in their front yard and a shoreline restoration to boot that will take off this coming year. We look forward to seeing these projects bloom next spring and summer. Thanks to Craig Stark and his staff at Ecoscapes for helping with the installation of this capstone project just before winter hit.

Safe Salting Outreach in the Community



RWMWD worked with Fortin Consulting and the MPCA to sponsor two smart salting workshops at the end of September and mid-October. The first one, held as a virtual workshop online engaged city and county staff from around the metro area and outstate communities in learning how to maintain roads to reduce water quality impacts to our water bodies and infrastructure while still adhering to safety needs and expectations. The second workshop, Safe Salting for Property Management, held on October 21 was a first for our

watershed district. The content was inspiring, with opportunities for discussion and future applications in various contexts. The MPCA has many resources online to help property managers problem-solve and reduce their dependency on salt. Cathy Troendle and Sage Passi will be taking the course again in early November to focus on developing some additional outreach tools and strategies to engage with property managers, the public and others responsible for parking lot and sidewalk snow removal in water protecting ways.

Communications and Outreach Program – Lauren Hazenson

Communications Strategy

This month was active with communications campaign planning and strategy. Plans were drafted for Flood Risk Mitigation content, which will inform and empower District communities to understand flood risk, our response as a District, and actions they can take based on their property. We also created a communications strategy for a CAC recruitment campaign and began drafting a plan for the Stewardship Grant application period campaign next Spring.

Publications

A recognition email, customized by watershed, was composed and sent to Adopt A Drain volunteers this month. The email included an infographic with data that demonstrates the volunteers' extensive impact. The October newsletter will also be published on the 29th.

Social Media (Facebook, Twitter, Instagram)

- Audience/Subscribers: 2,462
- Impressions/Post Views: 10,164
- Engagement (likes, comments, shares): 563

The social media audience continues to expand, with most growth occurring on Instagram (now 524 followers), resulting from increased posting frequency and a variety of visual content. We began drafting a strategy and content specific to Twitter, which will encourage audience growth and interaction on the platform. October posts have focused on NR fieldwork, Boys and Girls Club project completion, Tamarack Nature Center reopening, Owasso Boulevard construction, volunteer recognition, and Richardson Elementary stormwater reuse.

Website Updates

The design and delivery of the lake level data is nearing completion. Communications met with Barr and Windmill Strategy to finalize the report design and website integration. If everything proceeds as planned, we expect to go live with lake-level information on the project map and individual pages in November. We are also creating a training video that will enable users to easily and effectively access and understand the lake level report information.

Partnership and Professional Development

- Hillcrest Stormwater Workshop 9/30
- Watershed Partners Round Table 10/14
- Minnesota Water Resources Conference 10/20-21
- Minnesota Association of Government Communicators Conference 10/28