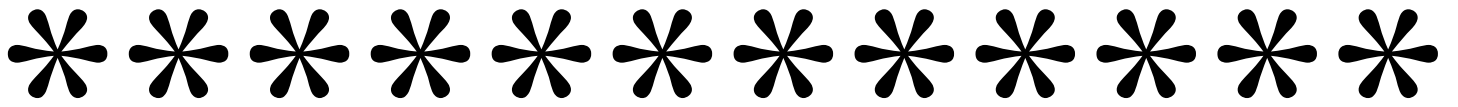




RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

February 2021 Board Packet



Agenda





Regular Board Meeting Agenda

Wednesday, January 6, 2021

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 January 6, 2021 (pg. 7)
 - B. Treasurer's Report and Bill List (pg. 15)
 - C. Permit Program
 - i. 21-02 Mead Metals Addition, Shoreview (pg. 29)
 - D. Keller Channel Weir & Phalen Outlet Modifications – Change Order No. 1 (pg. 33)
 - E. Joint Powers Agreement for the Establishment of Metro-INET (pg. 37)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
 - A. Applications – see consent agenda
 - B. Enforcement Action Report (pg. 62)
6. Stewardship Grant Program
 - A. Applications
 - i. **20-01 CS Lower Phalen Creek Study (pg. 65)**
 - B. Budget Status Update (pg. 67)
7. Presentations and/or Action Items
 - A. **North St. Paul Target Store BMP Retrofit Accept Plans and Solicit Bids (pg. 69)**
 - B. **Board of Managers Annual Meeting (pg. 101)**
8. Administrator's Report (pg. 104)
 - A. Meetings Attended

- B. Upcoming Meetings and Dates
 - C. MAWA and MAWD Activity
9. Project and Program Status Reports (*pg. 107*)
- A. Ongoing Project and Program Updates
 - i. Owasso Basin Flood Risk Reduction Feasibility Study
 - ii. Willow/Kohlman Creek Flood Risk Reduction Feasibility Study
 - iii. Ames Lake Area Flood Risk Reduction Feasibility Study
 - iv. FEMA Flood Mapping Updates
 - v. Targeted Retrofit Projects
 - vi. Keller Channel Weir and Phalen Outlet Resiliency Modifications
 - vii. Twin Lake Outlet Construction
 - viii. CIP Maintenance and Repair 2021 Project
 - ix. Beltline/Battle Creek Tunnel Inspection
 - x. Ryan Drive and Keller Parkway Conveyance
 - xi. Automated Lake Monitoring Systems
 - xii. Special Project BMP Monitoring
 - xiii. Natural Resources Program Update
 - xiv. Education Program Update
 - xv. 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, February 3, 2021

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, February 3, 2021, 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/85608742713?pwd=d0k4c1NoZS9yV1B0Ty9hU1pQcjhSQT09>

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 **856 0874 2713**. The meeting password is **701426**. 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 January 6, 2021

The Regular Meeting of January 6, 2021, 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
Laurann Kirschner, Attorney for District
Nicole Soderholm, Permit Inspector
Kyle Kubitzka, Water Quality Technician
Dave Vlasin, Project Coordinator
Burt Johnson, Twin Lake Association

Paige Ahlborg, Project Manager
Brad Lindaman, Barr Engineering
Erin Anderson Wenz, Barr Engineering
Bill Bartodziej, Natural Resource Specialist
Lauren Hazenson, Communications Coordinator

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA

A Manager requested to remove Item F from the Consent Agenda. It was noted that item would then be considered under the Permit Program.

Motion: Manager Aichinger moved, Manager Ward, seconded, to approve the agenda as amended.

A roll call vote was performed:

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

Motion carried unanimously.

3. CONSENT AGENDA

- A. Approval of Minutes from December 2, 2020
- B. Treasurer's Report and Bill List
- C. District Liability Insurance Coverage Waiver

- D. 2021 BMP Service Agreement – Washington Conservation District
- E. 2021 BMP Service Agreement – Ramsey County
- F. Permit Program
 - i. #21-01 RWMWD 2021 CIP Maintenance/Repairs

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

A roll call vote was performed:

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

Motion carried unanimously.

4. VISITOR PRESENTATIONS

Burt Johnson, Twin Lake Association, stated that the lake association was formed with the purpose to prevent flooding and inflow from West Vadnais, to have an outlet at the historically supported level, and to restore water quality. He stated that they would like to thank the Board and staff for the work that has been done on the outlet. He also thanked Paige Ahlborg for her work in coordinating the meetings related to shoreline restoration. He stated that the residents are excited for the shoreline restoration work to begin and anxious to see what the water level will be in the spring. He stated that he looks forward to hearing about what the watershed is doing district wide to prevent flooding and preserve the lakes and parks.

5. PERMIT PROGRAM

- A. Applications – See Consent Agenda
- A. #21-01 RWMWD 2021 CIP Maintenance/Repairs

Nicole Soderholm stated that this is annual CIP maintenance and repairs project.

A Manager stated that the Board approved the projects for bidding in November there were 12 programs and there are now 14 programs. Nicole Soderholm stated that the two additional projects arose from discussion regarding the wetland mitigation area near the Grass Lake berm.

Brad Lindaman noted that the Grass Lake project will address the portion of the trail that washed out when Grass Lake was very high and the overflow occurred. He noted that temporary measures were taken to prevent the entire trail from washing out but now that the water levels have decreased, it is a good time to repair that area. He provided details on the McKnight Basin sinkhole, noting that the issue was observed under inspection and it was determined that the issue should be addressed at this time rather than let it continue to get worse.

Motion: Manager Swope moved, Manager Aichinger seconded, to approve Permit #21-01.

A roll call vote was performed:

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

Motion carried unanimously.

B. Monthly Enforcement Report

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

C. Permit Summary 2018-2020

Nicole Soderholm provided an update on the permit summary from 2018 through 2020 and identified some of the trends within the report. She stated that only six percent of projects inspected were found to be noncompliant. She stated that about half of the 64 active sites were responsible for the violations reported. She stated that the most common violations are things that require frequent maintenance. She reviewed some of the safety procedures that were added this year because of COVID. She stated that during the last four months of 2020, the pilot program for single lot residential permits went into place. She requested that the pilot program be continued into 2021, as only three permit requests were received during the four-month period.

Motion: Manager Swope moved, Manager Aichinger seconded, to approve the continuation of the single lot residential permitting evaluation through July 2021, at which time the Board will evaluate the program.

A roll call vote was performed:

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

Motion carried unanimously.

A Manager commented that half of the site accounted for all of the violations and asked if there is a theme to that. Nicole Soderholm replied that there were two sites where a stop work order was almost issued. She stated a site could receive a violation and still be found compliant overall, depending upon the severity or number of violations. She stated that notices would still be sent to address the issues of noncompliance. She stated that a more serious violation could result in noncompliance, even if there is only one violation.

6. STEWARDSHIP GRANT PROGRAM

A. Applications - None

B. Budget Status Update

Paige Ahlborg commented that there are some maintenance grants that carry over in the amount of \$31,500 that were not included in the update.

7. PRESENTATIONS AND/OR ACTION ITEMS

A. 2021 CIP Maintenance and Repair Project Bid Review and Award

Brad Lindaman stated that seven bids were received with a wide spread. He stated that Fitzgerald Excavating was the lowest bidder with a bid of \$518,053.50 while the highest bidder was over \$1,700,000. He stated that is the highest spread that he has ever seen, noting that there were four items that resulted in a wide variety of costs and provided additional details. He stated that the engineer's estimate was \$538,000, which fell between the two lowest bidders. He commented that the District has experience with Fitzgerald over the past few years. He noted that Fitzgerald was the only contractor to visit each of the site and advised that the contractor does have familiarity with many of the sites.

A Manager commented that although the speed was slow on a previous project with Fitzgerald in the beginning, they believe that there have only been good experiences since then. Brad Lindaman confirmed that there were some issues with the schedule in the beginning but following a meeting with staff there have not been any problems with the contractor. Dave Vlasin agreed that the contractor has stepped up since that time and has completed good work for the District. Brad Lindaman noted that staff followed up with Fitzgerald and the contractor is comfortable with the bid they submitted and commented that he needs the work, he likes the work, and he enjoys working with the District. He confirmed that the lowest bidder has met all of the bidding requirements, has proven that he can do quality work, and the bid is consistent with the estimate prepared.

Motion: Manager Aichinger moved, Manager Swope seconded, to accept the bids and award the 2021 CIP Maintenance and Repair Project to Fitzgerald Excavating in the amount \$518,053.50 and direct staff to prepare and mail the notice of award, prepare the draft agreements, and review the required submittals.

A roll call vote was performed:

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

Motion carried unanimously.

B. Internal Load Analysis of Shallow and Deep Lakes Report and Discussion

Erin Anderson Wenz acknowledged that this report is very scientific and technical and looked at eight different lakes within the District. She stated that the selected lakes are either considered impaired or at risk of being impaired. She provided details on the phosphorus budget and water quality and the TMDL plans that have been developed for the selected impaired lakes. She also highlighted any work that has been done towards the TMDL plans for those lakes.

A Manager commented that if there is a TMDL plan and a lake is still impaired, would that then mean that the implementation plan did not work. Erin Anderson Wenz replied that the implementation plans involved both watershed reductions and internal load reductions, noting that internal load reductions are not one and done and are long-term strategy. She used the example of an alum treatment, noting that at some point the alum will not have the binding capacity that it once had, and the remaining phosphorus will need attention.

A Manager asked if all the internal loading were taken care of, would the lake become compliant or would the external factors still need to be addressed. Erin Anderson Wenz explained that it is a combination of the two factors. Brad Lindaman stated that the previous direction from the Board was to focus on reducing the external load, so that remains a focus. Erin Anderson Wenz agreed, explaining that if you only focus on the internal load, the external loading will still continue to be a factor and outweigh the work you have done on internal loading.

A Manager referenced Bennett Lake and asked if the spent lime filter has been helping. Erin Anderson Wenz replied that is not online yet because but will come online in 2021. A Manager asked if the impaired lakes impact the water bodies that they flow into. Erin Anderson Wenz agreed, noting that it is a chain of water and to a small degree the impaired water will impact the body of water it flows into.

Erin Anderson Wenz explained how sediment release occurs and how that relates to phosphorus. She also provided examples of different projects that have been done in the District and how they work to reduce the phosphorus levels. She stated that both mobile and organic phosphorus can be released from sediment and provided details on the differences between the two. She provided details on the model that was created to

develop an estimate of the rate of phosphorus release from the lake bottom and sediment during the summer months in the selected study lakes. She reviewed the three different categories that were developed for the studies lakes as shown in the summary table of conclusions within the report.

A Manager commented that they like the work that was done but questioned why alternatives such as plant harvesting in shallow lakes was not investigated. Bill Bartodziej stated that they looked at harvesting in Kohlman, noting that while a substantial amount of phosphorus was removed through harvesting, it should be viewed as a complementary action. He did not believe that harvesting alone would produce the desired result. The Manager commented that they would like to see how much harvesting would work and cost, compared to the other actions. Bill Bartodziej stated that they have a solid idea of that information based on the data they collected through Kohlman and can include that in the analysis. The Manager commented that they are opposed to using a massive amount of chemicals to solve these problems, especially when there are alternatives available. The Manager stated that they are uncomfortable with alum flock and the impact that could have on the organisms within the lake and therefore will never be comfortable with the use of alum.

A Manager asked what the additional investigation would involve that was mentioned in the report. Erin Anderson Wenz replied that leads into one of the questions included in the memorandum. She explained that aeration is used for internal load management in deep lakes but that can be difficult to prove beneficial in shallow lakes. She stated that the suggestion for more investigation would involve finding a situation in which aeration has been successful in a shallow lake. She stated that there are examples of aeration being successful for fishery management or duck weed management, but she is not aware of success for phosphorus management. She noted that large scale aeration would also be significantly more expensive than alum with less proven results. The Manager asked what the high cost would be attributed to. Brad Lindaman replied that the cost would be due to the equipment that would be needed as well as the constant power supply. Bill Bartodziej replied that aeration is successful in ponds and very small lakes and provided additional details on what would be necessary in order for the equipment to be successful in providing the necessary oxygen.

A Manager referenced the Beaver Lake Management Plan, specifically the idea to spread lime across the entire lake and asked for additional details on that as it was not reflected in this report. Erin Anderson Wenz stated that they will be doing a small-scale lime slurry on Wakefield Pond, which is south of Wakefield Lake, and will provide data. She stated that the lime slurry for lakes was talked about a lot more in the past and was unsure why that is not talked about much anymore. She noted that she could check into that. Brad Lindaman commented that there was an issue with PH, using large scale amounts of lime.

A Manager asked the experience that has been had in East Vadnais Lake. Erin Anderson Wenz stated that they inject a substance that binds with phosphorus, but do that in locations where water is coming in and has oxygen and explained how that works. Brad Lindaman noted that in that lake they have a continuous cycle of treatment because the water is used for water supply.

Erin Anderson Wenz reviewed the biggest takeaways from the study. A Manager commented that the District needs to allow itself to benefit from some of the research that is being done, as more information will be known in one or two years. The Manager commented that they are not very interested in rushing to complete things in some of the at-risk lakes, noting that some of the projects that have been implemented in the watershed are helping to a small degree and demonstrating that those efforts are an overall benefit. The Manager commented that they are concerned with the reduced effectiveness in Kohlman Lake, as it shows that the life of that alum treatment is reaching its end and perhaps an additional treatment will be needed noting that this year will really show whether that is true. Another Manager agreed with those comments.

Tina Carstens agreed that with the research that is going on, it would make sense to wait and see. She asked if there is appetite for experimenting with aeration on a smaller water body. A Manager commented that they would not be opposed to exploring aeration but would like to see an example where it has provided the desired

outcome. A Manager commented that they would perhaps be interested but would want to first see information on cost and possible partners. The Manager commented that West Vadnais continues to impact the downstream water bodies. It was asked if there are any plans for that water body. Tina Carstens stated that she believed the study was scheduled to be completed this year and an implementation plan would then be developed as a result.

A Manager asked if the lakes have been run through the prioritization tool. Erin Anderson Wenz explained that tool looks at specific projects in terms of water quality, flooding, and habitat. She stated that one thing that provides extra credit within the tool is whether the project provides benefit to an impaired water body. Tina Carstens stated that tool is for BMPs, which could provide benefit to those lakes, but the TMDLs are completed as required by the MPCA. She stated that the at-risk lakes have a designation provided by the District and is not a required designation by the MPCA. She noted that there is a cost-share program that provides priority for projects within the priority areas.

A Manager asked if there are any other effects from the impaired lakes that should raise priority, such as fishery damage. Tina Carstens stated that there is water quality monitoring, and a lot of work was done to identify the reasons why, or why not, a water would be considered impaired or at risk. She stated that those factors of swimming and fisheries are factored into that process. A Manager commented that they do not believe that any of the lakes are impaired to the point where they would impact the activities that would typically occur on that body of water. Erin Anderson Wenz stated that the data from 2020 and 2021 will provide additional information for the impaired lakes. She confirmed that the District will continue its efforts and watch the impaired lakes, track the research that is going on, and look to possibly add effort to additional research. It was agreed upon that this could be reviewed again in one year.

C. RWMWD Communications Program Presentation

Tina Carstens stated that Lauren Hazenson has been on staff for eight months and has been doing a great job. She stated that she has been looking at the communications needs and determining the needs and priorities for 2021.

Lauren Hazenson reviewed the traditional method of communication which is typically not used anymore because of the opportunity for miscommunication. She provided information on strategic communications which recognizes that not all audiences are the same. She stated that the benefits of providing communication through the strategic method ensure communications reflect the mission and goals; provide the right messaging using the right tools for the audience; acknowledge context to ensure that communications are clear, consistent, and proactive; and provides the ability to adapt quickly to arising communications needs without losing focus. She reviewed the efforts that she began in 2020.

A Manager asked the channels with the most engagement. Lauren Hazenson replied that Facebook is by far the channel with the most engagement and provided additional details on how those audiences can be targeted. She provided examples of efforts she continues to work on in order to tell a consistent story about the organization. She then reviewed the goals for communications that she plans to work on throughout 2021.

A Manager asked if there would be improved communications on the website and whether Lauren Hazenson would be involved in that process. Lauren Hazenson confirmed that the website is at the top of her list. She noted that the website is about three years old, which is the typical time at which the resources are reviewed and updated in order to make information more visible and accessible.

A Manager commented that they like the idea of taking the information generated and work that is being done and making it more accessible to people. The Manager asked for clarity on the email information reviewed, noting that it appears about one third of the people actually opened the email which seems low. Lauren Hazenson replied that the typical rate is about 20 percent, so that rate is actually higher than the typical rate for email interaction.

A Manager expressed appreciation for the presentation and the organized approach to communications.

8. ADMINISTRATOR'S REPORT

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

No comments.

C. Annual Meeting Reminder

Tina Carstens stated that the annual meeting is next month and confirmed that everyone would be available to attend virtually.

D. Welcome Kyle Kubitza

Tina Carstens introduced Kyle Kubitza, who has now joined the full-time District staff.

Kyle Kubitza introduced himself noting that he has been an intern with the District for about one year and nine months before being hired as a Water Monitoring Technician. He provided background information on his education and stated that he is excited to continue to be part of the team.

Tina Carstens commented that Kyle Kubitza is a great member of the team and always jumps in to provide assistance whenever it is needed.

E. LMCIT Insurance Dividend

No comments.

9. PROJECT AND PROGRAM STATUS REPORTS

A. Ongoing Project and Program Updates

- i. Owasso Basin Flood Risk Reduction Feasibility Study
- ii. Willow/Kohlman Creek Flood Risk Reduction Feasibility Study
- iii. Ames Lake Area Flood Risk Reduction Feasibility Study
- iv. FEMA Flood Mapping Updates
- v. Targeted Retrofit Projects
- vi. Target Store Retrofit Projects
- vii. Kohlman Permeable Weir Test System
- viii. Keller Channel Weir and Phalen Outlet Resiliency Modifications

A Manager asked if Ramey County has approved the permit to complete the work for the Phalen weir. Brad Lindaman replied that approval has not yet been gained but noted that the project is following the review timeline for the County. He anticipated gaining approval in mid-January. Tina Carstens stated that the item is on the agenda for the January County Board meeting but noted that it is for the Keller Weir, not Phalen. Dave Vlasin provided an update on the construction process. The Manager asked if photographs are being taken of the progress that could be used for education. Dave Vlasin confirmed that he continues to take photos along the way of all projects. He confirmed that a sign could be placed on the construction site that states water improvement project.

- ix. Twin Lake Outlet Construction
- x. CIP Maintenance and Repair 2021 Project
- xi. Beltline/Battle Creek Tunnel Inspection
- xii. Ryan Drive and Keller Parkway Conveyance
- xiii. Tanners Lake Alum Facility Monitoring
- xiv. Automated Lake Monitoring Systems

- xv. Internal Load Management Discussions
- xvi. Wakefield Lake Internal Loading Study
- xvii. Natural Resources Program Update
- xviii. Education Program Update
- xix. Communications Program Update
- xx. Citizen Advisory Committee Update

A Manager referenced the report on impaired lakes and asked if there could be a future discussion related to the accuracy of the modeling and lidar. Erin Anderson Wenz confirmed that they can bring additional information back to the Board.

A Manager asked when the project prioritization tool would be up. Tina Carstens commented that the tool will not be posted on the website, but the report will be shared on the website.

10. REPORTS OF MANAGERS

A. MAWD Annual Meeting Discussion

Tina Carstens confirmed that all of the presentations should be available for viewing on the MAWD website.

A Manager commented that there were technology problems but recognized that this was the first attempt at a virtual meeting. The Manager commented that they enjoyed the groundwater management presentation. Tina Carstens noted that was the presentation that she took the most notes on as well because of the increased interest in groundwater in recent years within the District and overall.

A Manager asked if the awards will still be presented for the year, even though the banquet is not able to be held. Tina Carstens commented that they did not solicit and make choices for the Watershed Excellence Awards this year and instead mailed photo calendars and will keep those suggestions for next year.

11. ADJOURN

Motion: Manager Skinner moved, Manager Swope seconded, to adjourn the meeting at 8:49 p.m. Motion carried unanimously.

RWMWD BUDGET STATUS REPORT

Administrative & Program Budget

Fiscal Year 2021

1/31/2021

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$8,500.00	-	-	-	\$8,500.00	0.00%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	259.00	259.00	3,241.00	7.40%
	Sub-Total: Managers/Committees:		\$15,500.00	\$0.00	\$259.00	\$259.00	\$15,241.00	1.67%
Employees	Staff salary/taxes/benefits	4010	1,520,000.00	-	125,891.05	125,891.05	1,394,108.95	8.28%
	Employee expenses	4020	15,000.00	-	95.52	95.52	14,904.48	0.64%
	District training & education	4350	75,000.00	-	378.00	378.00	74,622.00	0.50%
	Sub-Total: Employees:		\$1,610,000.00	\$0.00	\$126,364.57	\$126,364.57	\$1,483,635.43	7.85%
Administration/Office	GIS system maint. & equip.	4170	10,000.00	-	987.02	987.02	9,012.98	9.87%
	Data Base/GIS Maintenance	4171	40,000.00	-	-	-	40,000.00	0.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	57.48	57.48	7,942.52	0.72%
	Office supplies	4320	7,000.00	-	51.20	51.20	6,948.80	0.73%
	IT/Internet/Web Site/Software Lic.	4325	70,000.00	-	5,709.28	5,709.28	64,290.72	8.16%
	Postage	4330	3,000.00	-	294.00	294.00	2,706.00	9.80%
	Printing/copying	4335	8,000.00	-	-	-	8,000.00	0.00%
	Dues & publications	4338	11,000.00	-	7,500.00	7,500.00	3,500.00	68.18%
	Janitorial/Trash Service	4341	15,000.00	-	550.00	550.00	14,450.00	3.67%
	Utilities/Bldg.Contracts	4342	30,000.00	-	2,197.53	2,197.53	27,802.47	7.33%
	Bldg/Site Maintenance	4343	150,000.00	-	1,152.23	1,152.23	148,847.77	0.77%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	50,000.00	-	-	-	50,000.00	0.00%
	Office equipment	4703	150,000.00	-	6,663.00	6,663.00	143,337.00	4.44%
	Vehicle lease, maintenance	4810-40	43,000.00	-	-	-	43,000.00	0.00%
	Sub-Total: Administration/Office:		\$603,000.00	\$0.00	\$25,161.74	\$25,161.74	\$577,838.26	4.17%
Consultants/Outside Services	Auditor/Accounting	4110	65,000.00	-	-	-	65,000.00	0.00%
	Engineering-administration	4121	93,000.00	-	4,800.00	4,800.00	88,200.00	5.16%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	55,000.00	-	3,497.00	3,497.00	51,503.00	6.36%
	Engineering-permit review	4124	55,000.00	-	786.00	786.00	54,214.00	1.43%
	Project Feasibility Studies	4129	440,000.00	-	3,926.50	3,926.50	436,073.50	0.89%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	2,913.00	2,913.00	37,087.00	7.28%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		\$788,000.00	\$0.00	\$15,922.50	\$15,922.50	\$772,077.50	2.02%
Programs	Educational programming	4370	60,000.00	-	-	-	60,000.00	0.00%
	Communications & Marketing	4371	25,000.00	-	-	-	25,000.00	0.00%
	Events	4372	50,000.00	-	57.32	57.32	49,942.68	0.11%
	Water QM-Engineering	4520-30	180,000.00	-	876.97	876.97	179,123.03	0.49%
	Project operations	4650	200,000.00	-	734.22	734.22	199,265.78	0.37%
	SLMP/TMDL Studies	4661	103,000.00	-	-	-	103,000.00	0.00%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	-	-	140,000.00	0.00%
	Outside Prog.Support/Weed Mgmt.	4683-84	127,000.00	-	-	-	127,000.00	0.00%
	Research Projects	4695	95,000.00	-	-	-	95,000.00	0.00%
	Health and Safety Program	4697	3,000.00	-	-	-	3,000.00	0.00%
	Sub-Total: Programs:		\$983,000.00	\$0.00	\$1,668.51	\$1,668.51	\$981,331.49	0.17%
GENERAL FUND TOTAL			\$3,999,500.00	\$0.00	\$169,376.32	\$169,376.32	\$3,830,123.68	4.23%
CIP's	CIP Project Repair & Maintenance	516	1,325,000.00	-	187,365.08	187,365.08	1,137,634.92	14.14%
	Targeted Retrofit Projects	518	2,810,000.00	-	15,561.00	15,561.00	2,794,439.00	0.55%
	Flood Risk Reduction Fund	520	4,200,000.00	-	26,826.76	26,826.76	4,173,173.24	0.64%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	394,901.00	-	282,532.15	282,532.15	112,368.85	71.55%
	Stewardship Grant Program Fund	529	1,000,000.00	-	3,145.50	3,145.50	996,854.50	0.31%
	Wakefield Park Project	553	0.00	-	155.00	155.00	(155.00)	---
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
	District Office Bond Payment	585	194,885.00	-	-	-	194,885.00	0.00%
CIP BUDGET TOTAL			\$10,424,786.00	\$0.00	\$515,585.49	\$515,585.49	\$9,909,200.51	4.95%
TOTAL BUDGET			\$14,424,286.00	\$0.00	\$684,961.81	\$684,961.81	\$13,739,324.19	4.75%

Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/20	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 01/31/21
101 - General Fund	\$4,275,237.71	-	-	169,376.32	169,376.32	4,105,861.39
516 - CIP Project Repair & Maintenance	445,072.86	-	-	187,365.08	187,365.08	257,707.78
518 - Targeted Retrofit Projects	1,037,852.35	-	-	15,561.00	15,561.00	1,022,291.35
520 - Flood Damage Reduction Fund	3,537,301.65	-	-	26,826.76	26,826.76	3,510,474.89
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	946,126.60	-	-	282,532.15	282,532.15	663,594.45
529 - Stewardship Grant Program Fund	623,393.57	-	-	3,145.50	3,145.50	620,248.07
540 - Wetland Restoration Projects	-	-	-	-	-	0.00
553 - Wakefield Park Project	4,172.20	-	-	155.00	155.00	4,017.20
580 - Contingency Fund	891,682.00	-	-	-	-	891,682.00
585 - Certificates of Participation	204,313.98	-	-	-	-	204,313.98
Total District Fund Balance	\$11,965,152.92	\$0.00	\$	\$ 684,961.81	\$684,961.81	\$11,280,191.11

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Jan 1, 2021 to Jan 31, 2021

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	01/14/21	hea002	Feb 2021	HealthPartners	Employee Benefits	\$12,894.36
EFT	01/14/21	met008	Jan 2021	MetLife-Group Benefits	Employee Benefits	1,437.66
71992V	12/31/20	nor019	19-01 CS	North Park Condominium Assoc., Inc.	VOID	(6,632.00)
72025	01/11/21	aws001	S1335957-010121	AWS Service Center	Utilites/Bldg. Contracts	233.79
72026	01/11/21	del001	10454432625	Dell Marketing, L.P.	Office Equipment	5,144.00
72027	01/11/21	han008	1336	Hanna Enterprises	Janitorial/Trash Service	975.00
72028	01/11/21	inn002	IN3215120	Innovative Office Solutions LLC	Events/Bldg./Site Maintenance	147.68
72029	01/11/21	nor019	19-01 CS	North Park Condominium Assoc., Inc.	Stewardship Grant Fund	6,362.00
72030	01/11/21	pre003	317924148	Premium Waters, Inc.	Utilites/Bldg. Contracts	26.00
72031	01/11/21	shi001	S53049093	SHI International Corp.	Office Equipment	1,519.00
72032	01/11/21	spr002	Dec 2020	SPRWS	Project Operations	68.78
72033	01/11/21	ups001	0000F4471X021	United Parcel Service	Water QM Staff	202.34
72034	01/11/21	usb005	432573632	US Bank Equipment Finance	Printing Expense	294.00
72035	01/11/21	van001	76491	Vanguard Cleaning Systems of Minnesota	Utilites/Bldg. Contracts	550.00
72036	01/11/21	win002	6315	Windmill Strategy	Communications & Markeeting	240.00
72037	01/26/21	ada002	3219774	Adam's Pest Control, Inc.	Bldg./Site Maintenance	79.00
72038	01/26/21	att002	:87256653401X0125202	AT & T Mobility - ROC	IT/Website/Software/Water QM	135.62
72039	01/26/21	bar001	Dec-Jan 2021	Barr Engineering	December/January Engineering	103,307.20
72040	01/26/21	bar004	Jan 2021	Deborah Barnes	Employee Benefits	15.50
72041	01/26/21	ben002	99331	Benefit Extras, Inc.	Employee Benefits	675.00
72042	01/26/21	cad001	17292064	Allstream	Project Operations	69.90
72043	01/26/21	cit010	12555	City of White Bear Lake	GIS System Maintenance	987.02
72044	01/26/21	cit011	22971/229835	City of Roseville	IT/Website/Software	5,523.78
72045	01/26/21	com004	Jan 2021	Comcast	Utilites/Bldg. Contracts	144.44
72046	01/26/21	gal001	Jan 2021	Galowitz Olson, PLLC	January Legal Expense	2,913.00
72047	01/26/21	gil001	200494	Gilbert Mechanical Contractors, Inc.	Bldg./Site Maintenance	969.92
72048	01/26/21	ham007	20-45 CS	David Hammond	Stewardship Grant Fund	4,016.63
72049	01/26/21	int001	W20120515	Office of MN, IT Services	Telephone Expense	57.48
72050	01/26/21	kub001	Jan 2021	Kyle W. Kubitza	Employee Reimbursement	140.08
72051	01/26/21	mag004	Dec 2020	Carrie Magnuson	Employee Reimbursement	55.00
72052	01/26/21	maw002	MAWD 2021	MAWD	2021 Membership Dues	7,500.00
72053	01/26/21	mel001	Dec-Jan 2021	Michelle L. Melser	Employee Reimbursement	124.76
72054	01/26/21	min008	27110/27167	Minnesota Native Landscapes, Inc.	ConstructMaint.& Repair/School	4,436.00
72055	01/26/21	nep001	Jan 2021	NCPERS Group Life Ins.	Employee Benefits	16.00
72056	01/26/21	nor011	6503	Northland Securities, Inc.	Debt Services-Beltline	435.00
72057	01/26/21	nsp002	75229820	Xcel Energy	Project Operations/Utilities/Bldg.	1,766.67
72058	01/26/21	pac001	2012024799	Pace Analytical Services, Inc.	Water QM Staff	756.00
72059	01/26/21	pem002	Progress Pay #1	Pember Companies	Construction-Maint. & Repair	353,104.08
72060	01/26/21	pra001	210420200	Prairie Moon Nursery, Inc.	Construction-Maint. & Repair	366.34
72061	01/26/21	qwe001	Jan 2021	CenturyLink	Project Operations	244.57
72062	01/26/21	rac001	Progress Pay #1	Rachel Contracting	Project Operations-Maint. & Repair	31,133.11
72063	01/26/21	ram002	PRK-001871/001875	Ramsey County	BMP Cost Share/Stewardship Fund	380,251.00
72064	01/26/21	red002	150457963	Redpath & Company, Ltd	December Accounting Services	2,706.50
72065	01/26/21	red003	1405422	Red Wing Business Advantage Account	Employee Benefits	161.49
72066	01/26/21	reg002	0340029442	Regents of the University of Minnesota	Research Projects	2,723.00
72067	01/26/21	sim001	Dec-Jan 2021	Emily Simmons	Employee Reimbursement	67.98
72068	01/26/21	sod001	Jan 2021	Nicole Soderholm	Employee Reimbursement	41.20
72069	01/26/21	tim002	26162	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Exp.	259.00
72070	01/26/21	twi001	48730	Twin City Seed Co.	Construction-Maint. & Repair	79.20
72071	01/26/21	usb002	Dec-Jan 2021	U.S. Bank	December/January Credit Card	4,220.19
72072	01/26/21	van001	Jan 2021	Vanguard Cleaning Systems of Minnesota	Janitorial/Trash Service	550.00
72073	01/26/21	van003	Jan 2021	Erika Van Krevelen	Employee Reimbursement	64.59
72074	01/26/21	was002	5092	Washington Conservation District	Stewardship Grant Fund	4,130.00
Total						\$937,688.86

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Jan 1, 2021 to Jan 31, 2021

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	12/11/20	myp001	12/11/20	December 11th Payroll Fees	4110-101-000	77.45
EFT	12/24/20	myp001	12/24/20	December 24th Payroll Fees	4110-101-000	75.50
Dir.Dep.	01/08/21	---	Payroll Expense-Net	January 8th Payroll	4010-101-000	28,997.93
EFT	01/08/21	int002	Internal Rev.Serv.	January 8th Federal Withholding	2001-101-000	9,841.07
EFT	01/08/21	mnd001	MN Revenue	January 8th State Withholding	2003-101-000	1,808.46
EFT	01/08/21	per001	PERA	January 8th PERA	2011-101-000	6,262.84
EFT	01/08/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,570.00
EFT	01/08/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	450.00
Dir.Dep.	01/22/21	---	Payroll Expense-Net	January 22nd Payroll	4010-101-000	29,488.44
EFT	01/22/21	int002	Internal Rev.Serv.	January 22nd Federal Withholding	2001-101-000	9,993.71
EFT	01/22/21	mnd001	MN Revenue	January 22nd State Withholding	2003-101-000	1,833.76
EFT	01/22/21	per001	PERA	January 22nd PERA	2011-101-000	6,355.37
EFT	01/22/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,570.00
EFT	01/22/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	450.00
Payroll/Benefits						<u>100,774.53</u>
Total						Accounts Payable/Payroll/Benefits: <u>1,038,463.39</u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From January 1, 2021 - January 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
01/14/21	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	\$12,894.36	
01/14/21	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits-General	1,437.66	
12/31/20	71992V	nor019	North Park Condominium Assoc., Inc.	4682-529-000	VOID	(6,632.00)	2020
01/11/21	72025	aws001	AWS Service Center	4342-101-000	Utilities/Bldg. Contracts	233.79	
01/11/21	72026	del001	Dell Marketing, L.P.	4703-101-000	Office Equipment-General	5,144.00	
01/11/21	72027	han008	Hanna Enterprises	4341-101-000	Janitorial/Trash Service	975.00	2020
01/11/21	72028	inn002	Innovative Office Solutions, LLC			147.68	
				4372-101-000	Events		57.32
				4343-101-000	Bldg./Site Maintenance		90.36
01/11/21	72029	nor019	North Park Condominium Assoc., Inc.	4682-529-000	Stewardship Grant Fund	6,362.00	2020
01/11/21	72030	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	26.00	
01/11/21	72031	shi001	SHI International Corp.	4703-101-000	Office Equipment-General	1,519.00	
01/11/21	72032	spr002	SPRWS	4650-101-000	Project Operations-General	68.78	2020
01/11/21	72033	ups001	United Parcel Service	4530-101-000	Water QM Staff-General	202.34	2020
01/11/21	72034	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
01/11/21	72035	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	550.00	
01/11/21	72036	win002	Windmill Strategy	4371-101-000	Communications & Marketing	240.00	2020
01/26/21	72037	ada002	Adam's Pest Control	4343-101-000	Bldg./Site Maintenance	79.00	
01/26/21	72038	att002	AT & T Mobility - ROC			135.62	
				4530-101-000	Water QM Staff-General		43.22
				4325-101-000	IT/Website/Software		92.40
01/26/21	72039	bar001	Barr Engineering			103,307.20	
				4121-101-000	Engineering Admin-General Fund		2,756.00
				4123-101-000	Engineering-Review		2,050.50
				4129-101-000	Project Feasibility-General		62.50
				4129-101-000	Project Feasibility-General		44.00
				4129-101-000	Project Feasibility-General		910.38
				4520-101-000	Water QM-Engineering		396.00
				4520-101-000	Water QM-Engineering		175.07
				4520-101-000	Water QM-Engineering		484.10
				4520-101-000	Water QM-Engineering		400.00
				4520-101-000	Water QM-Engineering		655.00
				4124-101-000	Engineering-Permit Review		225.00
				4661-101-000	SLMP/TMDL Studies		1,850.00
				4695-101-000	Research Projects-General		255.00
				4650-101-000	Engineering-Project Operations		56.00
				4128-518-000	Engineering-School/Commer Retrofit		4,276.00
				4128-518-000	Engineering-School/Commer Retrofit		522.50

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From January 1, 2021 - January 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail	
				4128-518-000	Engineering-School/Commer Retrofit	82.50		2020
				4128-553-000	Engineering-Wakefiled Park Project	77.50		2020
				4128-518-000	Engineering-School/Commer Retrofit	154.00		2020
				4128-520-000	Engineering-Flood Damage	5,914.81		2020
				4128-520-000	Engineering-Flood Damage	5,051.67		2020
				4128-516-000	Engineering-Maint. & Repair	1,777.01		2020
				4128-516-000	Engineering-Maint. & Repair	91.25		2020
				4128-516-000	Engineering-Maint. & Repair	6,759.27		2020
				4121-101-000	Engineering Admin-General Fund	4,800.00		
				4123-101-000	Engineering-Review	3,497.00		
				4129-101-000	Project Feasability-General	3,532.50		
				4129-101-000	Project Feasability-General	394.00		
				4520-101-000	Water QM-Engineering	73.50		
				4124-101-000	Engineering-Permit Review	786.00		
				4128-518-000	Engineering-School/Commer Retrofit	10,479.50		
				4128-518-000	Engineering-School/Commer Retrofit	2,499.00		
				4682-529-000	Engineering-Stewardship Grant Fund	3,145.50		
				4128-518-000	Engineering-School/Commer Retrofit	82.50		
				4128-553-000	Engineering-Wakefiled Park Project	155.00		
				4128-520-000	Engineering-Flood Damage	5,424.64		
				4128-520-000	Engineering-Flood Damage	21,094.50		
				4128-520-000	Engineering-Flood Damage	204.00		
				4128-516-000	Engineering-Maint. & Repair	3,682.00		
				4128-516-000	Engineering-Maint. & Repair	187.50		
				4128-516-000	Engineering-Maint. & Repair	8,244.00		
01/26/21	72040	bar004	Deborah Barnes	4040-101-000	Employee Expenses-General	15.50		
01/26/21	72041	ben002	Benefit Extras, Inc.	4040-101-000	Employee Benefits-General	675.00		
01/26/21	72042	cad001	Allstream	4650-101-000	Project Operations-General	69.90		
01/26/21	72043	cit010	City of White Bear Lake	4170-101-000	GIS System Maint. & Equipment	987.02		
01/26/21	72044	cit011	City of Roseville	4325-101-000	IT/Website/Software	5,523.78		
01/26/21	72045	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	144.44		
01/26/21	72044	gal001	Galawitz Olson, PLLC	4131-101-000	Attorney General-General	2,913.00		
01/26/21	72045	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Bldg./Site Maintenance	969.92		
01/26/21	72048	ham007	David Hammond	4680-529-000	Stewardship Grant Fund	4,016.63		2020
01/26/21	72049	int001	Office of MN, IT Services	4320-101-000	Telephone-General	57.48		
01/26/21	72050	kub001	Kyle W. Kubitza			140.08		
				4530-101-000	Water QM Staff-General		110.75	
				4020-101-000	Employee Expenses-General		29.33	
01/26/21	72051	mag004	Carrie Magnuson	4040-101-000	Employee Benefits-General	55.00		2020
01/26/21	72052	maw002	MAWD	4338-101-000	Dues & Publications-General	7,500.00		
01/26/21	72053	mel001	Michelle L. Melser			124.76		
				4040-101-000	Employee Benefits-General		64.96	
				4040-101-000	Employee Benefits-General		59.80	2020
01/26/21	72054	min008	Minnesota Native Landscapes, Inc.			4,436.00		
				4630-516-000	Construction Imp.-Maint. & Repair		1,936.00	
				4630-518-000	Construction-Targeted Retrofit		2,500.00	
01/26/21	72055	nep001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits-General	16.00		
01/26/21	72056	nor011	Northland Securities, Inc.	4708-526-000	Debt Services-Beltline Tunnel	435.00		2020
01/26/21	72057	nsp001	Xcel Energy			1,766.67		
				4342-101-000	Utilities/Bldg. Contracts		1,243.30	
				4650-101-000	Project Operations-General		419.75	
				4650-520-000	Project Operations-Flood		103.62	

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From January 1, 2021 - January 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail	
01/26/21	72058	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	756.00		2020
01/26/21	72059	pem002	Pember Companies			353,104.08		
				4630-516-000	Construction Imp.-Maint. & Repair		176,552.04	2020
				4630-516-000	Construction Imp.-Maint. & Repair		176,552.04	
01/26/21	72060	pra001	Prairie Moon Nursery, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	366.34		
01/26/21	72061	qwe001	CenturyLink	4650-101-000	Project Operations-General	244.57		
01/26/21	72062	rac001	Rachel Contracting	4650-516-000	Project Operations-Maint. & Repair	31,133.11		2020
01/26/21	72063	ram002	Ramsey County			380,251.00		
				4682-529-000	Stewardship Grant Fund		13,032.00	2020
				4682-518-000	BMP Cost Share Program		367,219.00	2020
01/26/21	72064	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	2,706.50		2020
01/26/21	72065	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits-General	161.49		
01/26/21	72066	reg002	Regents of the University of Minnesota	4695-101-000	Research Projects-General	2,723.00		2020
01/26/21	72067	sim001	Emily Simmons			67.98		
				4020-101-000	Employee Expenses-General		14.03	2020
				4670-101-000	Natural Resources Project-General		23.60	2020
				4020-101-000	Employee Expenses-General		30.35	
01/26/21	72068	sod001	Nicole Soderholm			41.20		
				4040-101-000	Employee Benefits-General		40.00	
				4320-101-000	Office Supplies		1.20	
01/26/21	72069	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	259.00		
01/26/21	72070	twi001	Twin City Seed Co.	4630-516-000	Construction Imp.-Maint. & Repair	79.20		
01/26/21	72071	usb002	U.S. Bank			4,220.19		
				4343-101-000	Bldg./Site Maintenance		37.11	2020
				4343-101-000	Bldg./Site Maintenance		230.03	2020
				4325-101-000	IT/Website/Software		93.10	
				4670-101-000	Natural Resources Project-General		30.67	2020
				4372-101-000	Events		919.89	2020
				4320-101-000	Office Supplies		2.20	2020
				4343-101-000	Bldg./Site Maintenance		12.95	
				4350-101-000	Training & Education-General		250.00	2020
				4697-101-000	Health & Safety		1,330.75	2020
				4697-101-000	Health & Safety		131.09	2020
				4350-101-000	Training & Education-General		129.00	
				4350-101-000	Training & Education-General		129.00	
				4320-101-000	Office Supplies		50.00	
				4040-101-000	Employee Benefits-General		104.90	
				4350-101-000	Training & Education-General		120.00	
				4530-101-000	Water QM Staff-General		649.50	
01/26/21	72072	van001	Vanguard Cleaning Systems of Minnesota	4341-101-000	Janitorial/Trash Service	550.00		
01/26/21	72073	van003	Erika Van Krevelen			64.59		
				4020-101-000	Employee Expenses-General		28.75	2020
				4020-101-000	Employee Expenses-General		35.84	
01/26/21	72074	was002	Washington Conservation District	4682-529-000	Stewardship Grant Fund	4,130.00		2020
		win002	Windmill Strategy	4371-101-000	Communications & Marketing			
		woo001	Woodland Hills Church	4682-529-000	Stewardship Grant Fund			
Accounts Payable Total:						\$937,688.86		

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From January 1, 2021 - January 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
EFT	12/11/20	myp001	Payroll Fees	4110-101-000	November 13th Payroll Fees	77.45	
EFT	12/24/20	myp001	Payroll Fees	4110-101-000	November 27th Payroll Fees	75.50	
Dir.Dep.							
EFT	01/08/21	---	Payroll Expense-Net	4010-101-000	January 8th Payroll	28,997.93	
EFT	01/08/21	int002	Internal Revenue Service	2001-101-000	January 8th Federal Withholding	9,841.07	
EFT	01/08/21	mnd001	MN Revenue	2003-101-000	January 8th State Withholding	1,808.46	
EFT	01/08/21	per001	PERA	2011-101-000	January 8th PERA	6,262.84	
EFT	01/08/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,570.00	
EFT	01/08/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	450.00	
Dir.Dep.							
EFT	01/22/21	---	Payroll Expense-Net	4010-101-000	January 22nd Payroll	29,488.44	
EFT	01/22/21	int002	Internal Revenue Service	2001-101-000	January 22nd Federal Withholding	9,993.71	
EFT	01/22/21	mnd001	MN Revenue	2003-101-000	January 22nd State Withholding	1,833.76	
EFT	01/22/21	per001	PERA	2011-101-000	January 22nd PERA	6,355.37	
EFT	01/22/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,570.00	
EFT	01/22/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	450.00	
						<u>\$100,774.53</u>	
Payroll/Benefits							
TOTAL:						<u>\$1,038,463.39</u>	



**Summary of Professional Engineering Services During the Period
December 19, 2020 through December 31, 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	\$66,786.40	\$9,213.60	\$2,756.00	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	\$1,722.00	\$18,278.00		4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$47,265.00	\$7,735.00	\$2,050.50	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	\$173,492.50	\$43,507.50		4129-101	BELT-3
FEMA Flood Mapping Update	\$109,720.00	\$71,359.50	\$38,360.50		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	\$17,104.00	\$7,896.00		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	\$164,425.54	-\$39,425.54	\$62.50	4129-101	GC-3, BELT-3
Willow Creek flood damage reduction feasibility study (Atlas 14 - #2 priority flooding area)	\$50,000.00	\$27,130.96	\$22,869.04	\$44.00	4129-101	DW-9, BELT-3
Ames Lake area flood damage reduction feasibility study (Atlas 14 #3 priority area)	\$50,000.00	\$19,894.40	\$30,105.60	\$910.38	4129-101	DW-9, BELT-3
West Vadnais Lake to South of I-694 Conveyance Feasibility Study	\$35,000.00	\$56,403.73	-\$21,403.73		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		4129-101	BCL-3
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$40,000.00	\$19,462.95	\$20,537.05		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	\$735.00	\$4,265.00		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	\$42,130.15	-\$17,130.15	\$396.00	4520-101	DW-12
Auto lake monitoring system for Grass Lake	\$20,000.00	\$20,796.11	-\$796.11		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	\$29,828.49	-\$9,828.49		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	\$17,250.76	\$2,749.24	\$175.07	4520-101	DW-18
Auto lake monitoring system for Tanners Lake	\$20,000.00	\$25,735.77	-\$5,735.77		4520-101	DW-18
Auto lake monitoring system for Battle Creek Lake	\$20,000.00	\$15,727.31	\$4,272.69	\$484.10	4520-101	DW-18
Auto lake monitoring system for Twin Lake	\$20,000.00	\$15,936.58	\$4,063.42	\$400.00	4520-101	DW-18
Auto lake monitoring system Data Webpage	\$20,000.00	\$9,553.50	\$10,446.50	\$655.00	4520-101	DW-18
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$2,715.75	\$7,284.25		4122-101	DW-7
Permit Application Review	\$55,000.00	\$43,466.50	\$11,533.50	\$225.00	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	\$49,567.74	\$432.26	\$1,850.00	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	\$13,684.50	\$16,315.50		4661-101	WL-3, WL-4
WMP Updates - Including Implementation Plan Updates	\$10,000.00	\$1,440.00	\$8,560.00		4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$11,167.85	\$3,832.15		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	\$437.00	\$11,563.00		4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$6,693.77	\$8,306.23		4695-101	DW-12
Phalen Chain of Lakes Changes in Water Quality	\$5,000.00	\$4,335.00	\$665.00	\$255.00	4695-101	DW-12
Project Operations						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$15,575.64	-\$575.64	\$56.00	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	\$327,803.51	-\$38,403.51	\$4,276.00	4128-518	DW-6
East St. Paul Target (Construction Phase)	\$124,000.00	\$38,436.27	\$85,563.73	\$522.50	4128-518	DW-6
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$20,000.00	\$5,423.00	\$14,577.00		4128-518	DW-6
Aldrich Arena (soils and plantings)	\$25,000.00	\$20,665.89	\$4,334.11	\$82.50	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$18,731.27	-\$1,231.27	\$77.50	4128-553	DW-6, WL-1
Commercial Sites Retrofit Projects 2020 (Targeted Retrofits) - Target/Motel 6/Boys club	\$45,000.00	\$9,400.00	\$35,600.00		4128-518	DW-6
School Sites Retrofit Projects 2020 (Targeted Retrofits)	\$45,000.00	\$11,308.36	\$33,691.64		4128-518	DW-6
Church Sites Retrofit Projects 2020 (Targeted Retrofit)	\$45,000.00	\$11,374.96	\$33,625.04	\$154.00	4128-518	DW-6
BMP Incentive Fund: Gen'I BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$75,000.00	\$59,042.40	\$15,957.60		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	\$168,010.93	\$81,989.07	\$5,914.81	4128-520	DW-9, BELT-3
Ryan Drive - Keller Parkway Conveyance	\$168,850.00	\$12,753.67	\$156,096.33	\$5,051.67	4128-520	DW-9, BELT-3
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans	\$90,000.00	\$70,805.87	\$19,194.13		4128-520	DW-9
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$59,754.67	\$15,245.33	\$1,777.01	4128-516	DW-5
Beltline 5-year Inspection	\$100,000.00	\$53,570.20	\$46,429.80	\$91.25	4128-516	BELT-2
2020 CIP Maintenance and Repairs	\$150,000.00	\$80,510.38	\$69,489.62		4128-516	DW-5
2021 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$130,000.00	\$62,772.27	\$67,227.73	\$6,759.27	4128-516	DW-5

TOTAL PAYABLE FOR PERIOD 12/19/20 - 12/31/20

\$35,026.06

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



Bradley J. Lindaman, Vice President



**Summary of Professional Engineering Services During the Period
January 1, 2021 through January 15, 2021**

	Total Engineering Budget (2021)	Total Fees to Date (2021)	Budget Balance (2021)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$4,800.00	\$71,200.00	\$4,800.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$0.00	\$2,000.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$3,497.00	\$51,503.00	\$3,497.00	4123-101	DW-13
Project Feasibility Studies						
Interim emergency response plan funds for top priority District flooding areas	\$60,000.00	\$0.00	\$60,000.00		4129-101	DW-19
Groundwater/Surface Water Next Steps	\$50,000.00	\$0.00	\$50,000.00		4129-101	DW-16
FEMA Flood Mapping Update (2020)	\$109,720.00	\$74,892.00	\$34,828.00	\$3,532.50	4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Kohlman Creek flood damage reduction feasibility study	\$75,000.00	\$0.00	\$75,000.00		4129-101	DW-9, BELT-3
Ames Lake Technical Assistance and Project Planning with St. Paul	\$25,000.00	\$394.00	\$24,606.00	\$394.00	4129-101	DW-9, BELT-3
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-10
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00		4129-101	BCL-3
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$35,000.00	\$0.00	\$35,000.00		4129-101	DW-1, DW-2, DW-6
Wetland Restoration Workshop, Education, and Planning	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-8
Contingency*	\$50,000.00	\$0.00	\$50,000.00		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	\$0.00	\$10,000.00		4520-101	DW-2
Annual WQ Report Assistance	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$73.50	\$24,926.50	\$73.50	4520-101	DW-12
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00		4122-101	DW-7
Permit Application Review	\$55,000.00	\$786.00	\$54,214.00	\$786.00	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2020 Grant Applications	\$40,000.00	\$0.00	\$40,000.00		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$0.00	\$3,000.00		4661-101	TaL-1
WMP Updates - Including Implementation Plan Updates	\$20,000.00	\$0.00	\$20,000.00		4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$0.00	\$15,000.00		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	\$0.00	\$12,000.00		4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$0.00	\$15,000.00		4695-101	DW-12
Phalen Chain of Lakes Changes in Water Quality	\$10,000.00	\$0.00	\$10,000.00		4695-101	DW-2, DW-12
Project Operations						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$0.00	\$15,000.00		4650-101	TaL-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$0.00	\$30,000.00		4650-101	DW-9, BELT-3
Capital Improvements						
Target	\$150,000.00	\$10,479.50	\$139,520.50	\$10,479.50	4128-518	DW-6
Motel 6	\$60,000.00	\$0.00	\$60,000.00		4128-518	DW-6
Cemstone	\$60,000.00	\$0.00	\$60,000.00		4128-518	DW-6
Commercial Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$0.00	\$45,000.00		4128-518	DW-6
School Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$0.00	\$45,000.00		4128-518	DW-6
Church Sites Retrofit Projects 2021 (Targeted Retrofit)	\$45,000.00	\$2,499.00	\$42,501.00	\$2,499.00	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	\$3,145.50	\$71,854.50	\$3,145.50	4682-529	DW-6
Willow Lake Area Detention (from feas. Study)	\$150,000.00	\$0.00	\$150,000.00		4128-520	DW-9, BELT-3
Kohlman Creek Storage and Detention (from feas. Study)	\$200,000.00	\$0.00	\$200,000.00		4128-520	KC-2
Aldrich Arena (soils and plantings)	\$25,000.00	\$20,748.39	\$4,251.61	\$82.50	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$18,886.27	-\$1,386.27	\$155.00	4128-553	DW-6, WL-1
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	\$173,435.57	\$76,564.43	\$5,424.64	4128-520	DW-9, BELT-3
Address Internal Load in TMDL lakes	\$60,000.00	\$0.00	\$60,000.00		4661-101	KL-2, GC-2, WL-3, BL-3
Ryan Drive-Keller Parkway Conveyance	\$168,850.00	\$21,094.50	\$147,755.50	\$21,094.50	4128-520	DW-9, BELT-3, GC-3
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans (2020)	\$90,000.00	\$71,009.87	\$18,990.13	\$204.00	4128-520	DW-9
Place holder for feas. study (other) recommendations	\$25,000.00	\$0.00	\$25,000.00		4128-520	
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$3,682.00	\$71,318.00	\$3,682.00	4128-516	DW-5
Beltline 5-year Inspection	\$25,000.00	\$187.50	\$24,812.50	\$187.50	4128-516	BELT-2
2021 CIP Maintenance and Repairs	\$150,000.00	\$8,244.00	\$141,756.00	\$8,244.00	4128-516	DW-5
2022 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$0.00	\$30,000.00		4128-516	DW-5

TOTAL PAYABLE FOR PERIOD 1/1/21 - 1/15/21

\$68,281.14

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

**Keller Channel Weir and Phalen Outlet Resiliency
Progress Payment Number 1**

1.0	Total Completed Through This Period:	<u>\$371,688.50</u>		
2.0	Total Completed Previously Completed:		<u>\$0.00</u>	
3.0	Total Completed This Period:			<u>\$371,688.50</u>
4.0	Amount Previously Retained:		<u>\$0.00</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$18,584.43</u>
6.0	Total Amount Retained (See Note 2):		<u>\$18,584.43</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$18,584.43</u>	
9.0	Amounts Previously Paid:	<u>\$0.00</u>		
10.0	Amount Due This Estimate:			<u><u>\$353,104.08</u></u>

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


SUBMITTED BY:

Name: Joe Pember Date: 1/27/21
 Title: Project Manager
 Contractor: Pember Companies, Inc.

Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: January 27, 2021
 Title: District Engineer
 Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

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

Signature: _____

**Keller Channel Weir and Phalen Outlet Resiliency
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through January 19, 2021 for Progress Payment Number 1**

Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
1.04.A	Mobilization/Demobilization	L.S.	1	58,900.00	58,900.00	0.60	\$35,340.00	0.0	\$0.00	0.6	\$35,340.00
1.04.B	Clearing and Grubbing	L.S.	1	6,500.00	6,500.00	0.00	\$0.00	0.0	\$0.00	0.0	\$0.00
1.04.C	Control of Water	L.S.	1	225,000.00	225,000.00	0.45	\$101,250.00	0.0	\$0.00	0.5	\$101,250.00
1.04.D	Construction Entrance	Each	3	1,000.00	3,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.E	Silt Fence	L.F.	450	2.70	1,215.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.F	Siltation Log	L.F.	250	4.20	1,050.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.G	Floatation Silt Curtain	L.F.	400	24.00	9,600.00	400	\$9,600.00	0	\$0.00	400	\$9,600.00
1.04.H	Erosion Control Blanket	S.Y.	347	3.70	1,283.90	0	\$0.00	0	\$0.00	0	\$0.00
1.04.I	Hydro-Mulch	S.Y.	780	3.00	2,340.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Inlet Protection	Each	14	130.00	1,820.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.K	Traffic and Pedestrian Control	L.S.	1	10,000.00	10,000.00	0.75	\$7,500.00	0	\$0.00	0.75	\$7,500.00
Phalen Lake East and West Outlet Structures											
1.04.L	Remove, Salvage and Replace Split Rail Fence	L.F.	135	30.00	4,050.00	60	\$1,800.00	0	\$0.00	60	\$1,800.00
1.04.M	Remove and Salvage Existing Overflow Structure Grate Trash Rack	Each	2	3,000.00	6,000.00	1	\$3,000.00	0	\$0.00	1	\$3,000.00
1.04.N	Remove and Disposal of Existing 24" RCP Flared End Section and Trash Rack Inlet	Each	2	2,000.00	4,000.00	1	\$2,000.00	0	\$0.00	1	\$2,000.00
1.04.O	Excavate and Removal of Riprap from Infront of Structures and Regrade Area	L.S.	1	50,000.00	50,000.00	0.50	\$25,000.00		\$0.00	0.5	\$25,000.00
1.04.P	Construction Provisions/Methods to Protect Existing Concrete Structures D	L.S.	1	15,000.00	15,000.00	0.50	\$7,500.00	0	\$0.00	0.5	\$7,500.00
1.04.Q	Remove Partial Section of Existing Concrete Weir Wall	Each	2	7,500.00	15,000.00	1	\$7,500.00	0	\$0.00	1	\$7,500.00
1.04.R	36" RCP Class II	L.F.	140	300.00	42,000.00	94	\$28,200.00	0	\$0.00	94	\$28,200.00
1.04.S	36" RC Flared End Section w/Bull Nose Trash Rack	Each	4	5,000.00	20,000.00	2	\$10,000.00	0	\$0.00	2	\$10,000.00
1.04.T	Connect 36" RCP to Existing Outlet Control Structure	Each	4	10,000.00	40,000.00	2	\$20,000.00	0	\$0.00	2	\$20,000.00
1.04.U	Random Granite Riprap Mn/DOT Class IV	Ton	556	83.00	46,148.00	96	\$7,968.00	0	\$0.00	96	\$7,968.00
1.04.V	Granular Filter Material	Ton	277	32.50	9,022.50	31	\$1,007.50	0	\$0.00	31	\$1,007.50
1.04.W	72" Dia. RC Control Structure Manhole with Integral Base, Weir Wall and Door Hatch Cast in Top Slab	Each	4	15,000.00	60,000.00	1	\$15,000.00	0	\$0.00	1	\$15,000.00
1.04.X	Construct 8" Reinforced Concrete Weir Wall in Existing Outlet Structure	Each	4	5,500.00	22,000.00	1	\$5,500.00	0	\$0.00	1	\$5,500.00
1.04.Y	Aluminum Angle Frame Floor Door Hatch – Single Leaf	Each	4	2,500.00	10,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.Z	Furnish and Install 48" Wide x 48" High Drop Weir Gate (Whipps, Inc.™) with Electric Actuator	Each	4	20,500.00	82,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AA	Furnish and Install Custom Fabricated Special Overflow Structure Galvanized Trash Rack (Haala Ind.™)	Each	2	6,400.00	12,800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AB	Aggregate Fill	C.Y.	578	32.50	18,785.00	213	\$6,922.50	0	\$0.00	213	\$6,922.50
1.04.AC	Import Topsoil	C.Y.	58	70.00	4,060.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AD	Protect Trails/Paths and Repair/Restoration of any Damaged Bituminous	L.S.	1	40,000.00	40,000.00	0.35	\$14,000.00	0	\$0.00	0.35	\$14,000.00

**Keller Channel Weir and Phalen Outlet Resiliency
 Ramsey-Washington Metro Watershed District
 Summary of Work Completed Through January 19, 2021 for Progress Payment Number 1**

Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
1.04.AE	Seeding	S.Y.	347	5.00	1,735.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AF	Site Restoration	L.S.	1	5,000.00	5,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Keller Channel Weir											
1.04.AG	Remove Top 3 Feet of Existing Weir Wall	L.S.	1	18,000.00	18,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AH	Construction Provisions/Methods to Protect Existing Concrete Structure During Selective Demolition/Removals	L.S.	1	8,500.00	8,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AI	Concrete Modifications to Weir, (Add 1 foot to top of weir and 6 inches to side walls as shown on Drawings)	L.S.	1	8,000.00	8,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AJ	Repair/Regrade Existing Channel Side Slopes, Construct Level Access Pad Area for Control Panel, Remove and Replace Riprap Upstream and Downstream of Structure, Add Topsoil, Seed, and Erosion Control Blanket	L.S.	1	28,000.00	28,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AK	Furnish and Install 132" Wide x 30" High Drop Weir Gate (Whipps, Inc.™) with Interconnected Gearbox and Electric Actuator	Each	3	23,000.00	69,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AL	Valve Stem Cover Box/Lid Installed	Each	3	4,100.00	12,300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AM	Protect Trails/Paths and Repair/Restoration of any Damaged Bituminous	L.S.	1	20,000.00	20,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.AN	Site Restoration	L.S.	1	14,000.00	14,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Electrical											
1.04.AO	Electrical - Phalen Lake East and West Outlet Structures	L.S.	1	130,000.00	130,000.00	0.35	\$45,500.00	0	\$0.00	0.35	\$45,500.00
1.04.AP	Electrical - Keller Channel Weir	L.S.	1	40,000.00	40,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Electrical Allowance											
1.05B	Schedule of Allowances	Each	1	21,000.00	21,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Contract Base Extensions =						\$1,197,089.40	\$354,588.00	\$0.00	\$354,588.00		
Change Order 1											
C.O.1.A	Crushed Granite Stone (Barton CA1)	Ton	400	83.00	33,200.00	201	\$16,683.00	0	\$0.00	201	\$16,683.00
C.O.1.B	Type 5 Stabilization Geotextile	SY	350	2.50	875.00	167	\$417.50	0	\$0.00	167	\$417.50
Change Order 1 Extensions =						\$34,075.00	\$17,100.50	\$0.00	\$17,100.50		
Contract Grand Total =						\$1,231,164.40	\$371,688.50	\$0.00	\$371,688.50		

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

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

Page: 1
January 26, 2021
File No: 9M

	Balance
General Account	<u>\$2,913.00</u>

Permit Application Coversheet

Date February 03, 2021

Project Name Mead Metals Addition

Project Number 21-02

Applicant Name Sandy Crawford, Mead Metals

Type of Development Commercial/Retail

Property Description

This project is located at the existing Mead Metals location south of County Road E in the City of Shoreview. The applicant is proposing to construct a building addition with associated parking. Stormwater treatment requirements will be met through construction of a permeable pavement section and an underground filtration system. Pretreatment for the underground chamber system will include a sump and isolator row. Filtration is proposed due to poor soils.

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.

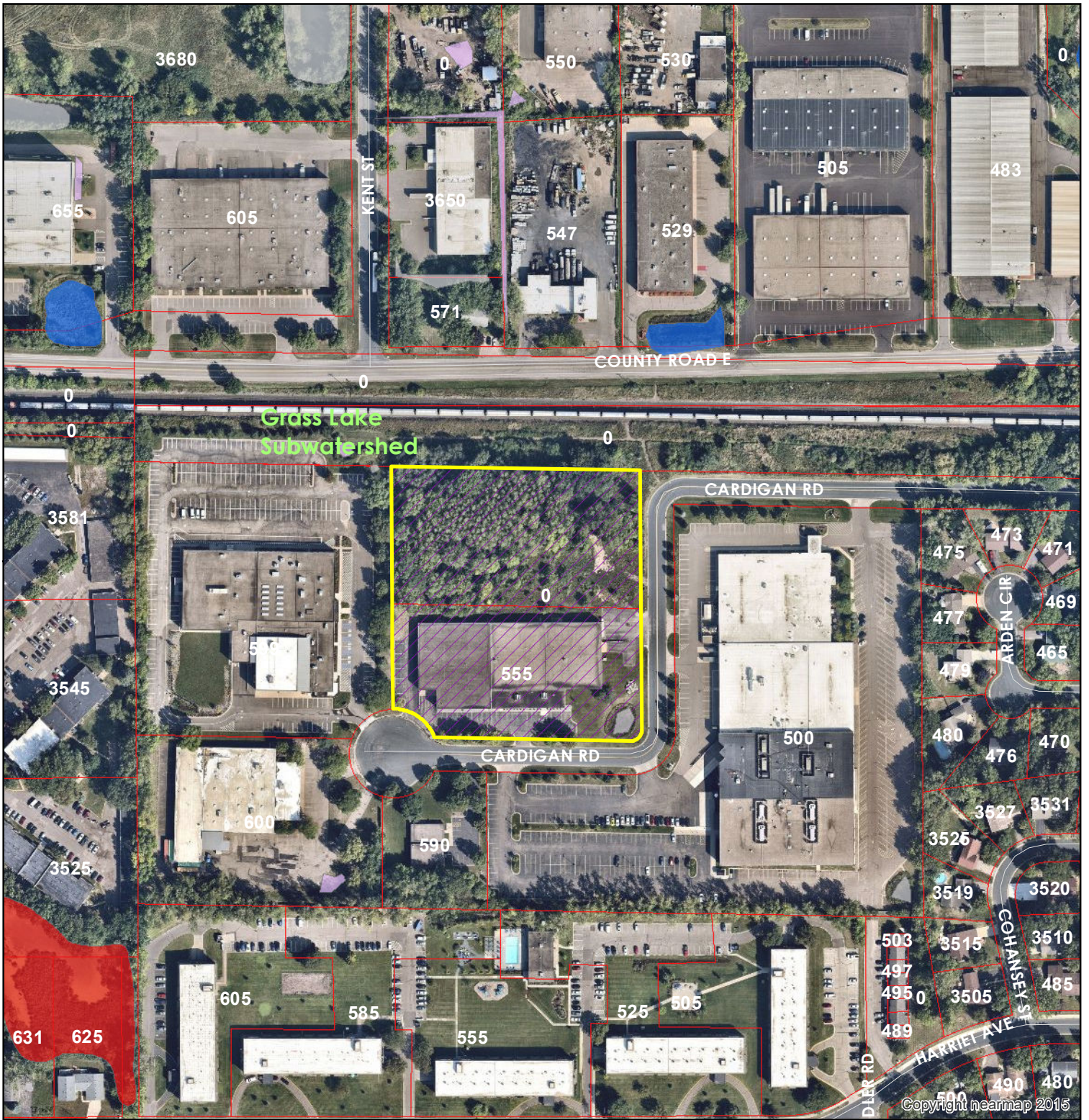
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map
- Project Grading Plan

#21-02 Mead Metals Addition



Wetlands

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

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

Highlighted Areas
Represent Active Permit

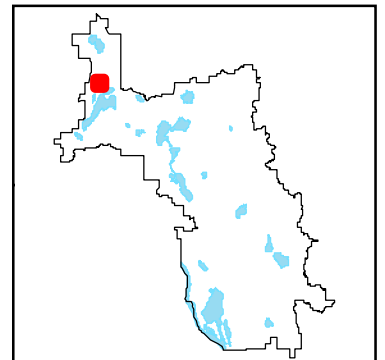
0 200 400

Feet

0 0.03 0.06

Miles

N

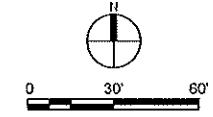


Copyright nearmap 2015

21-02

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 the draft Best Management Practice (BMP) Operations & Maintenance Plan.
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 the approved Minnesota Pollution Control Agency's NPDES permit coverage for the project.



www.htg-architects.com
 Minneapolis Tampa Bismarck

9300 Hennepin Town Road
 Minneapolis, MN 55347
 Tel: 952.278.8880
 Fax: 952.278.8822

PROJECT

**MEAD METALS
 BUILDING ADDITION**

555 CARDIGAN ROAD
 SHOREVIEW, MINNESOTA

ISSUED SET	CITY SUBMITTAL
REVISIONS	
DATE	NO.
1/22/21	1
	RHW/MD REVIEW

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

Brian J. Field
 BRIAN J. FIELD, P.E.

REG. NO. 01222021
 DATE



UTILITY & PAVING PLAN

DRAWN BY: JD CHECKED BY: BF

C4

LEGEND

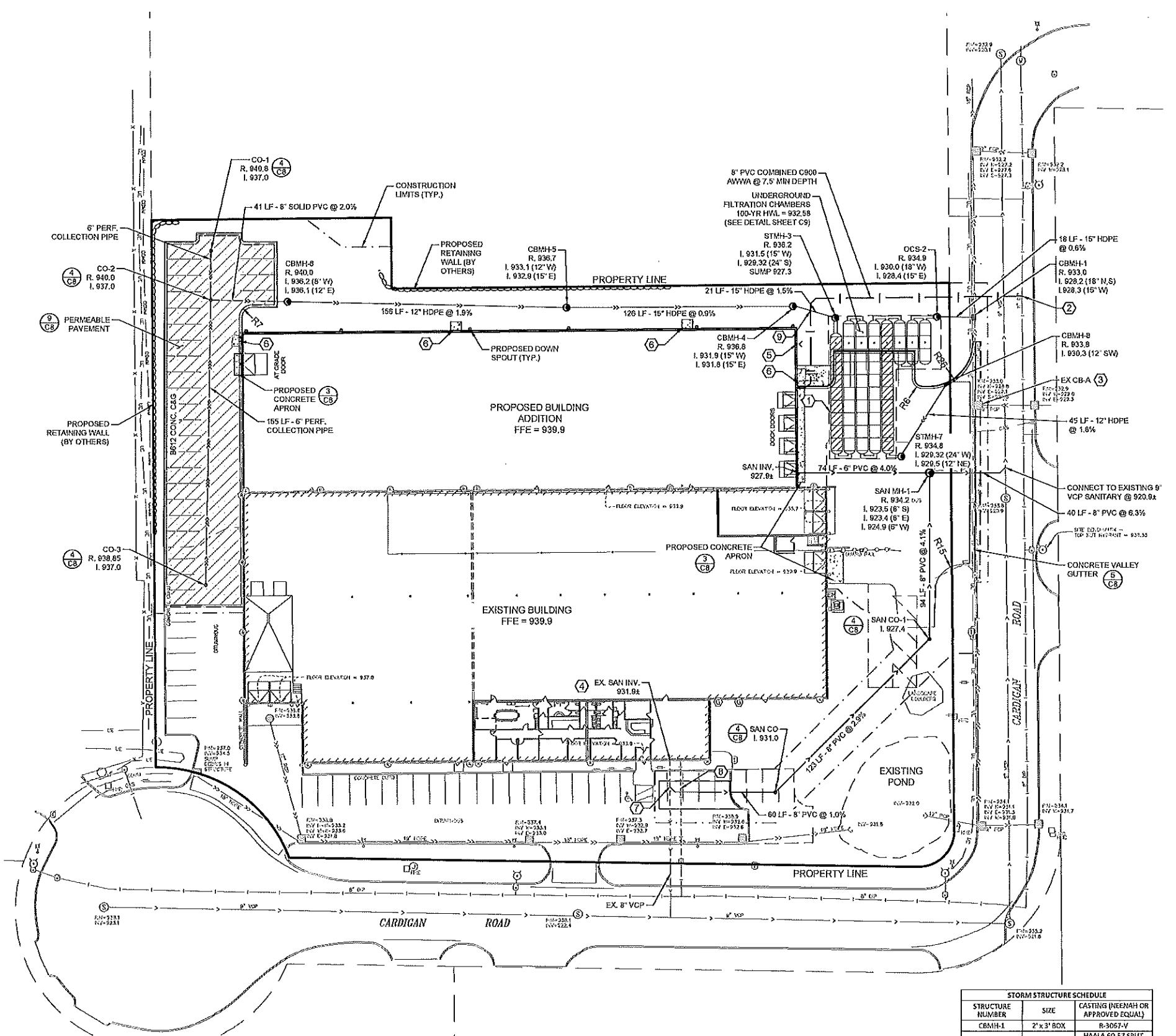
- — — — — PROPERTY LIMITS
- - - - - CONSTRUCTION LIMITS
- — — — — EXISTING WATERMAIN
- — — — — EXISTING SANITARY SEWER
- — — — — EXISTING STORM SEWER
- — — — — PROPOSED WATERMAIN
- — — — — PROPOSED SANITARY SEWER
- — — — — PROPOSED STORM SEWER
- — — — — PROPOSED DRAIN TILE
- ○ ○ ○ ○ PROPOSED SANITARY MANHOLE AND CLEANOUT
- ○ ○ ○ ○ PROPOSED STORM INLETS
- ▨ ▨ ▨ ▨ ▨ PROPOSED PERMEABLE PAVEMENT (SEE 9/C8)
- ▭ ▭ ▭ ▭ ▭ PROPOSED BITUMINOUS PAVEMENT (SEE 2/C8)
- ▭ ▭ ▭ ▭ ▭ PROPOSED CONCRETE PAVEMENT

KEY NOTES

- 1 STORMWATER FILTRATION CHAMBERS - SEE DETAILS ON SHEET C9
- 2 CONNECT TO EXISTING WATERMAIN PER CITY STANDARDS. CUT & INSTALL 8" X 8" TEE. PROVIDE 48 HR NOTIFICATION TO CITY. PRIOR TO INSTALLATION & WATER SHUTOFF, COORDINATE WITH THE CITY OF SHOREVIEW TO PROVIDE TRAFFIC CONTROL AND RIGHT OF WAY REQUIREMENTS AS NEEDED.
- 3 REMOVE & REPLACE CASTING PER STRUCTURE SCHEDULE OR APPROVED EQUAL. ADJUST RIM ELEVATION AS NEEDED.
- 4 VERIFY EXISTING SANITARY INVERT WITHIN EXISTING BUILDING
- 5 FDC LOCATION. SEE ARCH. PLAN FOR LOCATION
- 6 PROPOSED CONCRETE WALK. (SEE 1/C8)
- 7 CONNECT TO EXISTING 8" SANITARY SERVICE @ AN ELEVATION OF 931.61 PER CITY STANDARDS.
- 8 CUT AND CAP EXISTING 6" WATER SERVICE
- 9 MAINTAIN 18" MIN VERTICAL SEPARATION AT WATERMAIN CROSSING

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND PER THE GEOTECHNICAL REPORT BY AET ISSUED ON JULY 17, 2019 UNLESS DIRECTED OTHERWISE.
2. ALL CONSTRUCTION SHALL COMPLY WITH CITY OF SHOREVIEW ENGINEERING STANDARDS AND THE 2018 EDITION OF MNDOT SPECIFICATIONS, UNLESS DIRECTED OTHERWISE.
3. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE MUNICIPAL, WATERSHED DISTRICT, COUNTY, MPCA, DEPT. OF HEALTH, AND MNDOT PERMITS. VERIFY RECEIPT OF ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
4. EXISTING TOPOGRAPHIC AND UTILITY INFORMATION PROVIDED BY THE OWNER ON A SURVEY PREPARED BY ANDERSON ENGINEERING. BE ADVISED THAT THE LOCATION AND TYPE OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE INFORMATION IS NOT WARRANTED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR, IN COOPERATION WITH THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY, IS RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND DEPTH OF ALL UNDERGROUND UTILITIES. WATER LINES ARE REQUIRED TO BE INSTALLED AT 7.5 FEET MINIMUM DEPTH AND PROVIDE MINIMUM 10" HORIZONTAL AND 18" VERTICAL SEPARATION OF ALL WATERMAIN CROSSINGS FROM STORM OR SANITARY SEWER. WATERMAIN TO BE INSULATED PER C.E.A.M. SPECIFICATIONS, WHERE COVER DEPTHS CANNOT BE ACHIEVED. CONTRACTOR SHALL CONTACT THE ENGINEER IF THERE ARE AREAS WHERE MINIMUM COVER DEPTH CANNOT BE MET.
5. WATER SERVICE MATERIALS SHALL BE PVC C900. CONTRACTOR SHALL VERIFY EXISTING SERVICE SIZE AND MATERIALS PRIOR TO CONSTRUCTION. ALL INSTALLED PIPE WILL REQUIRE TESTING PER CITY AND STATE REQUIREMENTS. THIS WILL INCLUDE, AT A MINIMUM, CONDUCTIVITY AND PRESSURE TESTING, AS WELL AS TESTING FOR BACTERIA AND PROPER DISINFECTION. FOLLOW C.E.A.M. STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE. INSTALL TRACER WIRE, JOINT RESTRAINTS AND THRUST BLOCKING ON ALL WATERMAIN PIPE AND FITTING, PER CITY OF NORTHFIELD STANDARDS.
6. SANITARY SEWER PIPE MATERIALS SHALL BE PVC SDR 35. PIPE SHALL BE INSULATED PER CITY AND C.E.A.M. STANDARDS WHERE 7.5 FOOT COVER DEPTHS ARE NOT ACHIEVED. THIS APPLIES TO ALL PROPOSED NEW PIPE FOR THIS PROJECT. ALL SANITARY SEWER PIPE WILL REQUIRE TESTING PER CITY AND C.E.A.M. STANDARDS. THIS WILL INCLUDE, AT A MINIMUM, LEAKAGE AND ALIGNMENT TESTING.
7. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE WATER TIGHT. APPROVED RESILIENT RUBBER JOINTS MUST BE USED MEETING ASTM F2510 TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES AND CATCH BASINS. DO NOT GROUT OVER FLEXIBLE CONNECTIONS TO MANHOLES.
8. HDPE STORM SEWERS MUST MEET ASTM F714 (SEE MINNESOTA RULES, CHAPTER 4714 SECTION 1102.4 AND INSTALLATION STANDARD 1). WATER TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS, INCLUDING STRUCTURES. THE INSTALLATION MUST COMPLY WITH ASTM D2321.



STORM STRUCTURE SCHEDULE		
STRUCTURE NUMBER	SIZE	CASTING (NEENAH OR APPROVED EQUAL)
CBMH-1	2' x 3' BOX	R-3067-V
OCS-2	60" ROUND	HAALA 60-57 SPLIT TYPE
STMH-3	48" ROUND	R-1642, SOLID
CBMH-4	48" ROUND	R-4342, DITCH GRATE
CBMH-5	48" ROUND	R-4342, DITCH GRATE
CBMH-6	48" ROUND	R-1642-D, SOLID, "STORM"
STMH-7	48" ROUND	R-1642-D, SOLID, "STORM"
CBMH-8	2' x 3' BOX	R-3067-V
EX CB-A	48" ROUND	R-3360-A

SANITARY STRUCTURE SCHEDULE		
STRUCTURE NUMBER	SIZE	CASTING (NEENAH OR APPROVED EQUAL)
SAN MH-1	48" ROUND	R-1642

CALL 48 HOURS BEFORE DIGGING
 Utilities Underground Location Center
 DIAL 811

 Know what's below,
 Call before you dig.

Consent Agenda Action Item

Board Meeting Date: February 3, 2021

Agenda Item No: 3D

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 1 for the 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.

Attached is change order number 1 for this project. During construction of the east Lake Phalen structure, it was determined that the existing lake bottom was not sufficient to support the installation of the new pipe and structures. Crushed stone with geotextile fabric was needed to correct the situation.

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:

Approve Change Order No. 1.

Financial Implications:

This change order increases the contract price by \$34,075.00. The project budget includes contingency that will cover this change order amount.

Board Action Requested:

Approve Change Order No. 1.

Change Order No. 1
Ramsey-Washington Metro Watershed District
Keller Channel Weir and Phalen Outlet Resiliency

DATE OF ISSUANCE: January 27, 2021

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

Contractor: Pember Companies, Inc.
N4449 469th St.
Menomonie, WI 54751
Attn: Joe Pember

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

Description of Change:

During construction at the east Lake Phalen outlet structure, the engineer determined that the existing lake bottom soil would not be sufficient to support the installation of the storm sewer pipe(s) and structure(s). To improve this condition, a portion of the poor soils was removed and in its place a 12" layer of crushed granite stone encased in geotextile fabric was placed below the pipe(s) and structure(s) to provide a stable foundation. This subsoil correction/improvement was not anticipated in the current contract work scope and results in this change order.

The contractor completed the work at the East Phalen Outlet site, in good faith, under the direction of the engineer and owner's representative. It is anticipated that the West Phalen Outlet site will require similar soil correction.

C.O.1.A Crushed Granite Stone (Barton CA1)

Measurement and Payment:

Measurements will be made in tons, to the nearest tenth of a ton, based on load tickets from a certified scale of crushed granite stone furnished and actually installed.

The contractor will be paid a unit price per ton for furnishing and installing crushed granite stone as directed, all complete as specified. The unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead and profit and performing all operations as are necessary to furnish and install Crushed Granite Stone including loading, hauling, excavation and placement in conjunction with the Type 5 stabilization geotextile (below).

C.O.1.B Type 5 Stabilization Geotextile

Measurement and Payment:

Measurements will be made to the nearest square yard (SY) of type 5 geotextile material actually installed. All measurements will be completed by the onsite engineer or owner's representative. Overlapping will not be considered in the measurements.

The contractor will be paid a unit price per square yard (SY) for furnishing and installing type 5 stabilization geotextile as directed, all complete as specified. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead and profit and performing all operations as are necessary to furnish and install type 5 Stabilization Geotextile in conjunction with the crushed granite stone.

Change in Contract Time:

None

Total Impact on Contract Price:


An estimated quantity of crushed granite stone and type 5 Stabilization Geotextile has been determined for both the east and west Lake Phalen outlet structures. The dollar amount anticipated to complete the work on a unit price basis described above is \$34,075.00.00

(Attachment: CO1 Price Email provided by contractor)

This Change Order No. 1 is:

Submitted By:  Date: January 27, 2021
(ENGINEER) Bradley J. Lindaman, Project Engineer
Barr Engineering Company

Authorized By: _____ Date: _____
(OWNER) Marj Ebensteiner, President
Ramsey-Washington Metro Watershed District

Approved By:  Date: 1/27/21
(CONTRACTOR) Joe Pember, Project Manager
Pember Companies, Inc.

From: [Joe Pember](#)
To: [Greg Nelson](#)
Cc: [Terry Ludtke](#)
Subject: Phalen pay request #1
Date: Wednesday, January 20, 2021 1:36:27 PM

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Greg,

The material price for CA-1 is the exact same cost as the Riprap from Barton. The bid price for the Riprap is \$83/ton. The material, hauling and placing is the same for The CA-1. So the bid price for the CA-1 would be \$83/ton.

If you want to feel better, the bid item for granular filter material is \$32.50/ton. My brother bid that item with sand because the bid item said granular. My Cost from Barton with trucking, placing, tax etc is \$30.75/ton. So I am not coming out too good on the Granular Filter.

On Geotextile fabric with such a small quantity, I would like to get \$2.50/sy.

Thanks,

Joe Pember
Senior Project Manager
Pember Companies, Inc.
N4449 469th Street
Menomonie, WI 54751
jpember@pembercompanies.com
Office 715.235.0316
Mobile 715.556-0602
Fax 715.235.9006

Consent Agenda Action Item

Board Meeting Date: February 3, 2021

Agenda Item No: 3E

Preparer: Tina Carstens, Administrator

Item Description: Joint Powers Agreement (JPA) for the Establishment of Metro-INET

Background:

Our IT support service, Metro-INET, originally started as a collaboration between the City of Roseville and Mounds View to share resources. Since then, it has grown to have 35 member organizations, including watershed districts. We joined into the collaboration shortly after moving to our new office building in 2005. Over the past year, after the retirement of the original leader of the Metro-INET collaboration, the City of Roseville has asked the members to consider forming an official Joint Powers Agreement to move away from the city's administrative control. The attached memo does a nice job of walking through why this decision is being made and the advantages of this arrangement. About a year ago now, you gave the go-ahead for the District to participate in this change and signaled approval of this concept.

The final JPA is attached to this action item. This was put together by a committee of Metro-INET members and reviewed by all. It was also sent to Galowitz Olson to review for any issues they would see for the District. They did not see any issues with the agreement.

The members will be approving this JPA over the first couple of months of 2021, and then we will start our official meetings and take most of the year to get everything established and moved from the City of Roseville. I don't anticipate there being any disruption in our services during this time. I will serve as the Board member for RWMWD.

Applicable District Goal and Action Item:

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

Action Item: Coordinate management efforts and collaborate with local and state agencies and governments to promote the efficient use of resources.

Staff Recommendation:

Approve the Metro-INET Joint Powers Agreement.

Financial Implications:

The cost for the yearly Metro-INET expenses have been factored into the 2021 budget.

Board Action Requested:

Motion to approve the Metro-INET Joint Powers Agreement as shown in attachment.

Memo

To: Metro-INET Members
cc: Pete Bauer & Jason Swalley, Metro-INET
From: Patrick Trudgeon, Roseville City Manager
Date: December 1, 2020
Re: Metro-INET Joint Powers Agreement

Metro-INET originally started as a collaboration between Roseville and Mounds View to share IT resources in 1999. Since that time, Metro-INET has grown to 35 member organizations receiving full IT services and 9 associate members receiving limited IT services.

Not only has the number of Metro-INET members grown, each member agency's needs have grown exponentially. Some examples in recent years include the deployment of laser fiche, remote computer access, electronic door access, wireless access points, as well as body cam support for law enforcement.

Currently, Metro-INET is under organizational control of the Roseville City Manager and Roseville City Council. All Metro-INET employees are actually Roseville employees and fall under Roseville personnel policy, its liability coverage, and compensation structure. The Roseville City Manager makes employment decisions for Metro-INET including the hiring and termination of employees. The City of Roseville includes the \$3.5 million Metro-INET budget as part of its city budget.

While this arrangement has worked for many years, the following issues is making it harder to keep Metro-INET sustainable into the future:

- Roseville City Council concern about the amount of Metro-INET staff and the added liability and carrying costs for that amount of employees
- Roseville City Council concern the use of space within City given other city department space needs
- The Roseville employee compensation plan lags behind the market for other local governments and especially with LOGIS, a joint powers entity that provides IT services to many local governments in the Twin Cities. LOGIS has recruited several Metro-INET staff members over the past couple of years
- As a result of the Roseville compensation plan and organizational structure, it is not possible to create the necessary executive leadership to guide the large \$3.5 million Metro-INET enterprise

- Finally, it should be noted that the Roseville City Council could at any time decide to no longer be the lead agency for Metro-INET and as a result, breakup Metro-INET and let members figure out how to best provide IT services for their organization. It should be pointed out that Roseville City Council **has not** discussed doing this, but it is always a potential concern in the future.

Having Metro-INET as a joint powers entity does provide members more direct control over governance of Metro-INET, including costs, personnel, and policies and takes away uncertainty of the future of Metro-INET.

In 2020, a sub-committee of Metro-INET members met to work on a draft of the joint powers agreement. Working with Attorney Jim Strommen of Kennedy and Graven, the sub-committee finalized the JPA document. The sub-committee shared the draft JPA agreement with the League of Minnesota Cities General Counsel and the League of Minnesota Insurance Trust staff for their review. They suggested several changes to the document that have been incorporated into the final versions. Finally, the sub-committee distributed the draft document to all members so that their specific city/board attorney could review the document. To-date, we have not received any significant comments that change the document.

The highlights of the joint powers agreement are as follows:

- The initial members of the JPA will be the current members of Metro-INET
- JPA is planned to become effective on 1/1/2021
- Metro-INET will be governed by a Board of Directors with each member having a Director and Alternate designated
- Metro-INET board meetings subject to open meeting law
- Each member will have the number of votes equivalent to its share of the budget
- Members will not be allowed to vote if they are in default of their financial obligation or violation of IT security policies
- Metro-INET board will meet at least four times (Jan., April, July, Oct.) annually
- Metro-INET board will have officers elected to 3-year terms
- Metro-INET board will have power take all action in establishing and managing the operations of Metro-INET
- Metro-INET board will enter into a contract with a member to serve as the fiscal and operations agent for the organization
- Metro-INET board will hire an executive director who will be responsible for day-to-day operations
- The executive director will have broad authority to run the operations of Metro-INET
- The executive director can be terminated by a 2/3 vote of the Metro-INET board
- The Metro-INET board will establish an executive committee consisting of the 5 board officers. The fiscal agent and Executive Director will serve as ex officio members of the executive committee in an advisory and non-voting capacity
- The executive committee would meet on a more frequent basis and work on duties as assigned by the board such as the budget and administrative issues
- The JPA outlines the schedule for the creation and consideration of the annual budget.
- The JPA creates 3 different classes of charges

- Class 1 – Core Services
- Class 2 – Supplemental
- Class 3 – Necessary additional charges
- The class charges are described in more detail as Attachment A of the JPA
- The JPA outlines procedures for members to withdraw from Metro-INET
- JPA creates a Metro-INET “Associate” which is an entity that is receiving a contractual service from Metro-INET
- The JPA has no termination date but does outline procedures to dissolve the organization

For 2021, there are no additional costs that will be borne by members by entering into the JPA. Costs for the transition have been incorporated into the budget numbers given to each member earlier in 2020. It is expected that starting in 2022, there will be additional administrative costs for the JPA. The final financial impact, however, will be decided by the newly constituted Metro-INET board.

JOINT POWERS AGREEMENT

FOR THE ESTABLISHMENT OF

THE NORTH EAST METROPOLITAN AREA MUNICIPAL

INTERNETWORKING COLLABORATIVE, TO BE KNOWN AS

“METRO-INET”

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**JOINT POWERS AGREEMENT FOR THE ESTABLISHMENT OF
THE NORTH EAST METROPOLITAN AREA MUNICIPAL
INTERNETWORKING COLLABORATIVE**

The parties to this joint powers agreement (“JPA”) are local governmental units (“LGUs”) of the State of Minnesota authorized to enter into this JPA. This JPA is made and entered into pursuant to Minnesota Statutes, Section 471.59.

**ARTICLE I
GENERAL PURPOSE**

Section 1.1. Purpose. The general purpose of this JPA is to provide for an organization that the participating Members may jointly and cooperatively provide for the development and operation of IT Services for the use and benefit of the Members, and others. To the extent permitted by law, the Members will support the establishment of the IT Services and seek to expand the number of participating agencies either as Members or as non-Member LGUs receiving services from Metro-INET.

**ARTICLE II
DEFINITION OF TERMS**

Section 2.1. Definitions. The terms defined in this Article shall have the meanings given them for the purposes of this JPA.

Section 2.1.1. Metro-INET. “Metro-INET” means the “North East Metropolitan Area Municipal Internetworking Collaborative,” the organization created by this JPA.

Section 2.1.2. IT Services. “IT Services” means the development, operation and maintenance of advanced internet networking and data services through ownership or lease of any and all systems, equipment, technology or means and methods necessary to provide competitive, up-to-date IT services to Members and non-Member LGUs.

Section 2.1.3. Board. “Board” means the Board of Directors of Metro-INET, consisting of one Director from each LGU participating as a Member of Metro-INET pursuant to this JPA.

Section 2.1.4. LGU. “LGU” means any city, township, independent public safety organization, watershed management organization, watershed district, cable commission or other political subdivision of the State of Minnesota that is qualified to enter into joint powers agreements as defined in Minnesota Statutes, Section 471.59, and as it may be amended from time to time.

Section 2.1.5. Member. “Member” means an LGU that enters into this JPA and is at the time involved, a Member in good standing.

Section 2.1.6. Associate. “Associate” means an LGU that is not a Member but has agreed to affiliate with Metro-INET in accordance with Article XI and other applicable JPA provisions.

Section 2.1.7. Data. “Data” means all information in digital form that can be transmitted or processed.

ARTICLE III MEMBERSHIP

Section 3.1. Eligibility. Any Minnesota LGU is eligible to be a Member of Metro-INET.

Section 3.2. Execution of JPA and Payment of Member Charges. An LGU desiring to be a Member shall execute a copy of this JPA and shall pay all Member charges, prorated if appropriate, under Article IX.

Section 3.3. Initial Members. The initial Members of Metro-INET shall be the City of Roseville (“Roseville”) and those LGUs that are parties to a joint powers agreement or an otherwise existing contractual arrangement for IT Services from Roseville, on or prior to December 31, 2020. Upon the execution of this JPA by an initial Member, the clerk or other corresponding officer shall file with the Roseville City Manager a copy of the executed JPA, together with a certified copy of the authorizing resolution or other action. The resolution authorizing the execution of this JPA shall also designate the Member’s Director and Alternate Director (“Alternate”).

Section 3.4 Transition of Initial Member IT Services Agreements. Any joint powers agreement or contract for IT Services between two or more Metro-INET Members that has not been terminated prior to the Effective Date of this JPA shall be terminated by the affected parties at the earliest possible date, without disrupting the delivery of IT Services to the affected parties. After the Effective Date, any term of an earlier agreement for IT Services still in force shall be interpreted not to conflict with this JPA, which shall supersede the earlier agreement if the earlier agreement and this JPA cannot be reconciled. The Board shall have authority to take any action it deems reasonable and prudent to facilitate the transition to Metro-INET by any initial Member, including the creation of a committee authorized to assist affected parties in the termination of earlier agreements and to seek Board approval of action necessary to facilitate the transition.

Section 3.5. Effective Date. This JPA shall become effective on January 1, 2021 [[or other date agreed upon by the initial Members]] (“Effective Date”). Within thirty (30) days after the Effective Date, the Roseville City Manager shall call the first meeting of the Board, which shall be held not later than fifteen (15) days after the notice has been delivered to each Director and Alternate.

Section 3.6. New Members. LGUs that do not qualify for initial membership under Section 3.3 and seek to join Metro-INET shall be admitted by a vote of the Board as it determines at its organizational meeting, or as soon thereafter as the Board may decide and adopt in the bylaws.

Section 3.7. Conditions of Membership. The Board may impose additional conditions upon the admission of new Members.

Section 3.8. Appointment of Directors. Directors and Alternates shall be appointed by the Member governing body to serve until their successors are appointed and qualified. Directors shall be the chief administrative officer of the Member.

ARTICLE IV BOARD OF DIRECTORS

Section 4.1. Governing Body. Metro-INET shall be governed by a Board of Directors consisting of a Director and Alternate from each Member. At the organizational meeting and annually thereafter, the Board shall elect an executive committee that may advise or act for the Board as the Board may delegate to the executive committee as necessary, upon meetings duly called, as provided in Article VIII.

Section 4.2. Appointment of Alternate Directors. Each Member shall appoint one Alternate to the Director. The Alternate shall be entitled to attend all meetings of the Board and may vote in the absence of the Director.

Section 4.3. No Proxy Voting. There shall be no voting by proxy. All votes must be cast in person at Board meetings by the Director or Alternate, unless the meeting is duly conducted in accordance with Minnesota Statutes, Sections 13D.02 (interactive TV) or 13D.021 (telephone or other electronic means allowed if health pandemic or emergency).

Section 4.4. Notice of Change of Director or Alternate Director. When the Member changes its designated Director or Alternate the Member shall provide written notice to Metro-INET with the name, email address and mailing address of the person so appointed.

Section 4.5. Compensation of Directors and Alternate Directors. Directors and Alternates shall serve without compensation from Metro-INET, but it shall not prevent a Member from providing compensation for its Director or Alternate if such compensation is lawfully authorized by such Member.

Section 4.6. Number of Votes Held by Directors. Unless otherwise expressly provided herein, each Director shall have the number of votes equivalent to the Member's share of Metro-INET's annual budget, as established by the Board and calculated as follows: Each Member's percentage share of Metro-INET's annual budget shall be determined by Member use of Metro-INET IT Services. Said Member share shall be rounded up to the nearest whole number, and that number shall be the Member's total number of votes in any vote of the Board. Members shall have at least one vote. The number of votes for initial Members, and the total votes of the Directors for the initial Board, shall be as set forth in the attached Exhibit A, and is subject to change annually with the addition or subtraction of Members. The number of votes for each Director shall be recalculated annually upon the adoption by the Board of the next fiscal year budget. Upon the addition of a new Member, the Board shall estimate the new Member's share of Metro-INET's annual budget for the period prior to adoption of the succeeding year's budget and assign the proportionate number of votes to the new Member for the remainder of that fiscal year. The number of votes of existing Members shall not change during the year that new Member or Members join Metro-INET.

Section 4.7. Quorum. The presence of at least ten (10) Directors of Members in good standing at a regular or special meeting shall constitute a quorum of the Board allowing it to transact business, provided that the ten Directors hold at least a majority of the total Member votes.

Section 4.8. Motions. A majority of the Member vote totals represented by those Directors present at a meeting is required to pass all motions, unless a greater majority is provided in this JPA.

Section 4.9. Suspension of Vote. A Director, or Alternate shall not be eligible to vote during the time the Member they represent has been notified by Metro-INET that it is in default on any required assessment, contract or other contribution to Metro-INET or regarding security breaches or other acts deemed by the Board to materially impair the quality of IT Services provided by Metro-INET. During the existence of such default, the vote(s) of such Member shall not be counted for the purposes of a meeting quorum or majority on a Board meeting vote. If a Member remains in default for a period of more than forty-five (45) days after written notice on failure to pay any billing from Metro-INET or notice of other default referenced above, the Board may act to terminate the Member from Metro-INET by a majority vote of the Board at a regular meeting or special meeting called for that purpose.

Section 4.10. Bylaws. At the Metro-INET organizational meeting the Board shall adopt bylaws governing its procedures, including but not limited to, the time, place and frequency of its regular meetings or procedures and voting majorities required for certain votes. Such bylaws may be amended from time to time pursuant to Section 4.8 of this JPA.

Section 4.11. Remuneration of Director or Alternate Expenses. The Board shall have no obligation to pay remuneration of Director or Alternate expenses, which shall be subject to the policies of Member appointing them. The Board may, however, in its sole discretion, pay the reasonable and necessary expenses of officers, Directors and Alternates incurred in connection with special duties they undertake on behalf of Metro-INET, but such reimbursement shall not include the expenses incurred solely for attending meetings of Metro-INET within the seven-county Twin Cities metropolitan area.

Section 4.12. Removal of Directors. Any Director or Alternate shall be subject to removal by the governing body of the Member.

Section 4.13. Director Vacancies. A vacancy on the Board shall be promptly filled by the governing body of the Member whose position on the Board is vacant.

ARTICLE V MEETINGS AND OFFICERS

Section 5.1. Special Meetings. Special meetings of the Board may be called: (a) by the chair; (b) by the executive committee; or (c) upon the written request of a majority of the Directors. Subject to an emergency exception, as defined by statute, at least three (3) days' written notice of

special meetings shall be published and given to all Directors and Alternates. Such notice shall include the agenda for the special meeting and the time, date and location of the meeting.

Section 5.2. Regular Meetings. The specific date, time and location of regular meetings of the Board shall be determined by the Board as provided in the Bylaws. The Board shall be required to meet at least four (4) times a year. Its regular meetings shall be held on the dates and at times of each January, April, July and October as determined by the Board at the October meeting and duly published to establish the four regular meetings.

Section 5.3. Notice of Regular Meetings. Notice of regular meetings of the Board shall be given to the Directors and Alternates by the secretary at least fifteen (15) days in advance of the meeting and the agenda for such meetings shall accompany the notice. However, business at regular meetings of the Board need not be limited to matters set forth in the agenda.

Section 5.4. Public Meetings. Meetings of the Board and of the executive committee shall be considered “public” meetings. Notices, agendas, and schedules of such meetings shall be given, maintained and distributed pursuant to the Open Meeting Law, Minnesota Statutes, Section 13D.01, et seq.

Section 5.5. Officers. The officers of the Board shall consist of the chair, vice-chair, secretary and two (2) officers-at-large, who shall be elected by the Directors at the organizational meeting of the Board. The chair and vice-chair shall be elected to three-year (3) terms, commencing at the organizational meeting of the Board and every three (3) years thereafter. The secretary shall be elected to a two-year (2) term, commencing at the organizational meeting of the Board, and shall be elected to three-year (3) terms following the completion of the initial term every three (3) years thereafter. The officers-at-large shall be elected to a one-year (1) term, commencing at the organizational meeting of the Board, and shall be elected to three-year (3) terms following the completion of the initial term every three (3) years thereafter. The intent of the election of officers is to ultimately establish three-year (3), staggered terms of officers with the chair and vice-chair being elected in the same year. Other than the organizational meeting of the Board, new officers shall take office at the adjournment of the meeting of the Board at which they are elected.

Section 5.6. Chair and Vice Chair. The chair shall preside at all meetings of the Board and the executive committee. The vice-chair shall act as chair in the absence of the chair.

Section 5.7. Secretary. The secretary shall be responsible for keeping a record of all of the proceedings of the Board and the executive committee.

Section 5.8. Officer Vacancies. A vacancy shall immediately occur in the office of any officer upon his or her resignation, death or upon ceasing to be an employee of the Member. Upon a vacancy occurring in any office, the Alternate shall serve until the Member appoints a new Director.

ARTICLE VI POWERS AND DUTIES OF THE BOARD

Section 6.1. Powers and Duties. The powers and duties of the Board shall include the powers set forth in this Article.

Section 6.2. General Purpose. The Board shall take such action as it deems necessary and appropriate to accomplish the general purposes of the organization including, but not limited to, the establishment of data processing and information systems, engaging in the development and implementation of the necessary programs therefor, acquiring any necessary site, purchasing any necessary supplies, equipment and machinery, employing any necessary personnel and operating and maintaining any systems for the handling of data processing and management information for the Members and for others. Any of the foregoing activities, or any other activities authorized by the JPA, may be accomplished by entering into contracts, leases or other agreements with others, whenever the Board shall deem this to be advisable.

Section 6.3. Governance. The Board shall have full supervisory control and management of the affairs of Metro-INET including the power to make contracts as it deems necessary to make effective any power to be exercised by Metro-INET pursuant to this JPA; to provide for the prosecution and defense or other participation in actions or proceedings at law in which it may have an interest; to employ such persons as it deems necessary to accomplish its duties and powers on a full-time, part-time or consulting basis; to conduct such research and investigation as it deems necessary on any matter related to or affecting the general purposes of the organization; to acquire, hold and dispose of property both real and personal as the Board deems necessary; and to contract for space, materials, supplies and personnel with a Member or Members or with others.

Section 6.4. Membership Dues. The Board may establish and collect membership dues.

Section 6.5. Service Charges. The Board may establish and collect charges for its services to Members and to others.

Section 6.6. Gifts, Loans and Grants. The Board may accept gifts, apply for and use grants or loans of money or other property from the state, or any other governmental units or organizations and may enter into agreements required in connection therewith and may hold, use and dispose of such moneys or property in accordance with the terms of the gift, grant, loan or agreement relating thereto.

Section 6.7. Annual Audit. The Board shall cause an annual independent audit of the books to be made and shall make an annual financial accounting and report in writing to the Members. Its books and records shall be available for and open to examination by its Members at all reasonable times.

Section 6.8. Annual Budget. The Board shall establish the annual budget for the organization as provided in this JPA.

Section 6.9. Delegation to Executive Committee. The Board may delegate authority to the executive committee of the Board, between Board meetings. Such delegation of authority shall be by resolution of the Board and may be conditioned in such manner as the Board may determine.

Section 6.10. Accumulation and Maintenance of Capital. The Board may accumulate and maintain reasonable working capital reserves and may invest and reinvest funds not currently needed for the purposes of the organization. Such investment and reinvestment shall be in accordance with and subject to the laws applicable to the investment of city funds.

Section 6.11. Data, Data Processing and Management Information Systems. The Board shall make Metro-INET data processing and management information systems available to its Members, subject to reasonable charges for the development and processing thereof. Metro-INET shall not own Member Data, which shall be returned to the Member upon its withdrawal made pursuant to this JPA or upon dissolution.

Section 6.12. PERA. The Board may provide for any of its employees to be members of the Public Employees Retirement Association and may make any required employer contributions to that organization and any other employer contributions which municipalities are authorized or required by law to make.

Section 6.13. Necessary and Incidental Powers. The Board may exercise any other power necessary and incidental to the implementation of its aforementioned powers and duties.

ARTICLE VII FISCAL AND OPERATIONAL SERVICES; EXECUTIVE DIRECTOR

Section 7.1. Fiscal and Operations Agent. The Board shall designate a Member to serve as the fiscal and operations agent of Metro-INET (“Fiscal Agent”). The Fiscal Agent shall provide services as set forth in the JPA and on additional matters as may be determined by the Board through authorization for services by contract with Metro-INET. The Fiscal Agent shall be responsible for management of all of Metro-INET’s funds, for the keeping and storing of Metro-INET’s financial records, recommending to the Board and maintaining adequate insurance coverage of Metro-INET consistent with municipal liability limitations under Minnesota law, and to provide for the annual financial audit and accounting of all Metro-INET related activities. The Fiscal Agent shall be responsible for collecting and preserving all Metro-INET records and data pursuant to the requirements of the Minnesota Government Data Practices Act, Minnesota Statutes, Chapter 13. The Fiscal Agent shall post a fidelity bond or other insurance against loss of organization funds in an amount approved by the Board, at the expense of Metro-INET.

Section 7.2. Executive Director. The Board shall hire an executive director to be responsible for the management of the day-to-day operations of Metro-INET, executing the policy directives of the Board, including, the power to implement contracts authorized by the Board, the prosecution and defense or other participation in actions or proceedings in law; to employ personnel or retain as consultants such persons as he or she may deem necessary to carry out Metro-INET functions; to conduct such research and investigation as necessary on any matter related to or affecting the general purposes of Metro-INET; to manage real and personal property

acquired by Metro-INET; and to investigate, advise the Board regarding contracts for space, materials, supplies and personnel either with a Member or Members or with third parties and coordinating with Members for the implementation of internet connection, system maintenance and data processing. The executive director shall prepare a report to the Board regarding the operations of Metro-INET for each quarterly and annual meeting of the Board.

Section 7.3. Term of Executive Director. The executive director shall serve for an indefinite period as defined by the contract, which may be terminated and the director removed by a vote of a two-thirds majority of the total votes of the Board.

ARTICLE VIII EXECUTIVE COMMITTEE

Section 8.1. Membership of Executive Committee. The Board shall establish an executive committee consisting of five (5) voting members. Its members shall consist of the five (5) officers of the Board as defined in Article V, Section 5.5. The Fiscal Agent and Executive Director shall serve as *ex officio* members of the executive committee in an advisory and non-voting capacity.

Section 8.2. Bylaws of Executive Committee. The executive committee may adopt bylaws governing its own procedures, which shall be subject to this JPA, the bylaws of the Board, and any resolutions or other directives of the Board.

Section 8.3. Quorum. Three (3) members of the executive committee shall constitute a quorum and a majority of the executive committee members present at a meeting where a quorum exists may act, notwithstanding the number of votes held by each member in accordance with Article IV, Section 4.6.

Section 8.4. Regular Meetings. The specific date, time and location of regular meetings of the executive committee shall be determined by the executive committee. The executive committee shall meet at least four (4) times a year. Notice of regular meetings of the executive committee shall be given to the members of the executive committee and the executive director at least seven (7) days in advance and the agenda for such meetings shall accompany the notice.

Section 8.5. Special Meetings. Special meetings of the executive committee may be called by the chair or upon the call of any two other members of the executive committee. The date, time and location of the special meeting shall be fixed by the person or persons calling it. At least three (3) days advance written notice of such special meeting shall be given to all members of the executive committee by the person or persons calling the meeting.

Section 8.6. Notice of Meetings. Pursuant to the Open Meeting Law, all meetings of the executive committee shall be noticed and published at least three (3) days prior to the meeting.

Section 8.7. Duties and Responsibilities. The executive committee shall have the following duties and responsibilities: (a) to exercise the powers and perform the duties delegated to it by the Board and subject to such conditions and limitations as may be imposed by the Board; (b) to cause to be prepared a proposed annual budget each year which shall be submitted to the

Board at least thirty (30) days before the annual meeting for the Board's review and ratification; and (c) to present a full report of its activities at each regular meeting of the Board.

Section 8.8. Preparation and Modification of Charges. The executive committee shall have the responsibility to prepare and modify charges for the use of the programs and facilities of Metro-INET, both as to Members and non-members, subject to Board approval.

ARTICLE IX FINANCIAL MATTERS

Section 9.1. Fiscal Year. The fiscal year of Metro-INET shall be the calendar year.

Section 9.2. Adoption of Annual Budget. The annual budget of Metro-INET must be adopted in the following manner:

- (a) prior to May 1 the Board will supply each member with a proposed preliminary budget for the coming fiscal year;
- (b) prior to the meeting of the Board in July the Board will supply each Member with a proposed budget adjusted for withdrawal notifications received pursuant to Article XI;
- (c) the annual budget for the coming fiscal year shall be adopted at the July Board meeting.

Promptly after adoption of the budget, the Board must mail copies of the budget to the chief administrative officer of each Member. Upon adoption of the budget each Member is obligated to Metro-INET for the budgeted revenues and cost sharing charges fixed by the Board for the ensuing fiscal year in accordance with this Article.

Section 9.3. Cost Sharing Charges. The Board shall have authority to fix cost sharing charges for all Members in an amount sufficient to provide the funds required by the budgets of the organization. The Board shall notify the chief administrative officer of each Member of the amounts of such charges, on or before May 1 of each year. The Board shall prepare, and may amend, a document setting forth the cost sharing charges and policies for Members and rates for services provided to non-members. Such document(s) and policies shall be made available to Members for review and comment upon request.

Section 9.4. Invoices to Members. Invoices for all charges shall be sent to the Members by the Fiscal Agent and shall be due when rendered. Any Member whose charges have not been paid within forty-five (45) days after the date of the invoice may be declared in default by the Board or executive committee and shall not be entitled to further voting privileges nor to have its Director hold any office nor to use any Metro-INET facilities or programs until such time as the default is cured and Metro-INET has been paid in full. Additionally, in the event that such charges have not been paid within forty-five (45) days of the date of the invoice, and such default remains uncured after a reasonable time following notice to cure, the membership of such Member may be

terminated by a majority vote of the Board. In the event of a dispute between the Member and the Board as to the amount which is due and payable, the Member shall nevertheless make such payment in order to preserve its status as a Member, but such payment may be made under protest and without prejudice with respect to the Member's right to dispute the amount of the charge and to pursue any legal remedies available to it.

Section 9.5. Classification of Cost Sharing Charges. The charges to the Members of Metro-INET shall be divided, for cost sharing purposes, into three different classes, as further described in Exhibit A to this JPA and incorporated herein:

- (a) Core Services (“*Class 1 Charges*”). Class 1 Charges shall cover all of Metro-INET’s general administrative and operational expenses for core services in having a member participate as a domain member of Metro-INET. Core services are generally defined as services provided by Metro-INET that provides IT support to the Member and its employees to conduct the Member’s business. These core services may change over time upon Board approval based on different needs of Members. Changes in the delivery of Class 1 Charges shall be paid by each Member as fixed monthly, quarterly or annual membership dues, as determined by the Board. The amount of Class 1 Charges required to be paid by each Member shall be determined annually by the executive committee, upon approval by the Board. Class 1 Charges shall be prorated to new Members and not retroactively applied to them.
- (b) Supplemental Services (“*Class 2 Charges*”). Class 2 Charges shall cover the costs of design and development of computer programs and systems and other capital costs for services requested by the Member. Supplemental services are generally defined as services provided by Metro-INET at the request of the Member to meet its specific needs. These supplemental services may change over time upon Board approval based on different needs of Members and changes in the delivery of such services. Class 2 Charges shall be paid by each Member as fixed monthly, quarterly or annual membership dues, as determined by the Board. The amount of Class 2 Charges required to be paid by each Member shall be determined annually by the executive committee, upon approval by the Board. Class 2 Charges shall not be retroactively applied to new Members.
- (c) Necessary Additional Charges (“*Class 3 Charges*”). Class 3 Charges shall cover the costs of system operation and maintenance in serving non-members, on an “as requested” basis as determined by the Board when it deems such charges necessary. The amount of such charges that are applicable to each non-member shall be determined by the Board. The amount of the charges shall cover all costs incurred by Metro-INET in providing these services to the non-member. The Board shall have authority to negotiate and enter into contracts with non-members receiving Class 3 Charges.

Section 9.6. Special Financial Assistance from Members. It is anticipated that certain Members may be in a position to extend special financial assistance to Metro-INET in the form of grants, or other in-kind payments including use of facilities or other infrastructure deemed beneficial to Metro-INET. The Board shall credit any such in-kind payment against any charges

which the granting Member would otherwise have to pay. The Board may also enter into an agreement, as a condition to any such grant, that it will credit all or a portion of such grant towards charges which have been made or in the future may be made against one or more specified Members.

Section 9.7. Expenditures. Board funds may be expended by the Board in accordance with procedures established by law for the expenditure of funds by cities. Orders, checks, drafts and other legal instruments shall be signed by the chair or vice-chair and countersigned by the secretary or such other person as shall be designated by the Board.

Section 9.8. Contracts. Contracts shall be let and purchases shall be made in accordance with the legal requirements applicable to contracts and purchases by Minnesota cities.

ARTICLE X WITHDRAWAL

Section 10.1. Notice of Withdrawal. Any Member may at any time prior to June 1 of a given year, give written notice of withdrawal from Metro-INET. Written notice of withdrawal submitted prior to June 1 shall be a timely withdrawal and the Member shall not be responsible for its share of the next year's budget not already made the obligation of the Member by a prior, multi-year budget commitment approved by the Board. The withdrawing Member's financial obligation prior to withdrawal upon timely notice will be based on the Class 1, 2 and 3 Charges outstanding for the remainder of the calendar year and additional years for which the Board committed Metro-INET to such financial obligation while the Member was with Metro-INET as a Member. In such case the Member shall be responsible for the net present value of its a pro rata share of such commitment. Written notice of withdrawal after June 1, shall be untimely for purposes of withdrawal prior to the next calendar year but shall serve as notice for withdrawal effective the year following. A Member's nonpayment of charges as set forth herein or its failure to comply with Metro-INET operational security requirements or other policy prescribed by the Board, without cure after written notice and a reasonable time to cure, shall constitute the Member's notice of withdrawal from Metro-INET as determined by the Board pursuant to Section 4.8 at a regular or special meeting. All Member withdrawals shall take effect at the end of the applicable fiscal year, unless otherwise provided by the Board.

Section 10.2. Claim to Assets upon Withdrawal. A Member's withdrawal from Metro-INET at a time when such withdrawal does not result in dissolution of the organization shall forfeit the Member's claim to any assets of the organization except that it shall have access to any software developed for its use while it was a Member in accordance with and subject to the provisions of Article XIII, Section 13.5(b).

Section 10.3. Financial Obligations upon Withdrawal. Upon withdrawal the Member shall continue to be responsible (1) for all of its prorated share of any unpaid Class 2 Charges; (2) for its share of Class 1 Charges to the effective date of withdrawal; (3) for its share of any Class 3 Charges to the effective date of withdrawal; and (4) for any contractual obligations it has separately incurred with Metro-INET.

Section 10.4. Financial Obligations prior to Withdrawal. A Member who has not given notice of withdrawal on or before June 1 of a given year is obligated for the budgeted revenues and the cost sharing charges fixed by the Board for the ensuing fiscal year in accordance with Article IX.

ARTICLE XI ASSOCIATES

Section 11.1. Associates. It is understood that certain LGUs may desire to enter into a contractual arrangement with Metro-INET for limited IT Services. Such LGUs may affiliate with Metro-INET as “Associates.”

Section 11.2. Admission of Associates. An LGU desiring to become an Associate may do so in the same manner as is applicable to becoming a Member, except as otherwise provided in this Article.

Section 11.3. Confirmation of Associate Status. At the time of joining Metro-INET as an Associate, the LGU shall indicate in writing that it is not joining as a Member but as an Associate.

Section 11.4. Appointment of Director and Alternate Director. An Associate may appoint a Director and an Alternate Director to the Board but such Director (or Alternate) shall be without voting power, shall not be eligible to serve as an officer and shall not be counted for quorum purposes.

Section 11.5. Charges. The Board shall establish the charges to be paid by Associates and for that purpose it may classify Associates in accordance with their varying circumstances.

Section 11.6. Application to Become a Member. An Associate may apply for membership status and become a Member upon the requisite vote as required in Article III, Section 3.5.

Section 11.7. Notice of Withdrawal as Associate. An Associate may discontinue its association with Metro-INET at any time by giving written notice of withdrawal to the secretary. Withdrawal shall not relieve such withdrawing Associate from its obligation to pay any charges which the Associate has incurred up to the time of withdrawal.

ARTICLE XII DISSOLUTION

Section 12.1. Dissolution. Metro-INET shall be dissolved whenever: (1) the total number of remaining Members is less than five; or (2) by two-thirds of the votes represented by all Members of the Board.

Section 12.2. Effectuation of Dissolution. In the event of dissolution, the Board shall determine the measures necessary to effectuate the dissolution and shall provide for the taking of such measures as promptly as circumstances permit and subject to the provisions of this JPA.

Section 12.3. Distribution of Assets and Payment of Outstanding Obligations. Upon dissolution, the remaining assets of Metro-INET and payment of all of its outstanding obligations, the remaining assets of Metro-INET shall be distributed among the then existing Members in proportion to their contributions, as determined by the Board.

Section 12.4. Allocation of Deficit. If, upon dissolution, there is an organizational deficit, such deficit shall be charged to and paid by the Members on a pro rata basis, based upon the Class 1 and 2 Charges incurred by such Members during the two years preceding the event which gave rise to the dissolution.

Section 12.5. Distribution of Computer Software. In the event of dissolution the following provisions shall govern the distribution of computer software owned by or licensed to Metro-INET:

- (a) All such software shall be an asset of Metro-INET.
- (b) A Member or former Member may use (but may not authorize reuse by others) any software developed during its membership upon (1) paying any unpaid sums due Metro-INET; (2) paying the costs of taking such software; and (3) complying with reasonable rules and regulations of the Board relating to the taking and use of such software. Such rules and regulations may include a reasonable time within which such software must be taken by any Member or former Member desiring to do so.

ARTICLE XIII INDEMNIFICATION

Section 13.1. Cooperative Activity of Single Governmental Unit. Metro-INET shall be considered a separate and distinct public entity to which the Members have transferred all responsibility and control for actions taken pursuant to this JPA. To the fullest extent permitted by law, actions by the Members pursuant to this JPA are intended to be and shall be construed as a “cooperative activity” and it is the intent of the Members that they shall be deemed a “single governmental unit” for the purposes of liability, as set forth in Minnesota Statutes, Section 471.59, subdivision 1a (a); provided further that for purposes of that statute, each Member expressly declines responsibility for the acts or omissions of the other party. The Members are not liable for the acts or omissions of the other Members except to the extent to which they have agreed in writing to be responsible.

Section 13.2. Indemnification. Metro-INET shall defend, indemnify and hold harmless the Members against all claims, losses, liabilities, suits, judgments, costs and expenses arising out of action or inaction of the Board, its Directors or Alternates, the Fiscal Agent, the executive director and other employees or agents of Metro-INET pursuant to this JPA. Metro-INET shall defend and indemnify the employees of any Member acting pursuant to the JPA except for any act or omission for which the Member’s employee is guilty of malfeasance, willful neglect of duty or

bad faith. A Member shall defend, indemnify and hold harmless Metro-INET against all claims, losses, liabilities, suits, judgments, costs, and expenses arising out of action or inaction of the Member regarding the Member's Data. This JPA to defend and indemnify does not constitute a waiver by Metro-INET or any Member of the limitations on liability provided by Minnesota Statutes, Chapter 466.

ARTICLE XIV AMENDMENT

Section 14.1. Amendment of JPA. This JPA sets forth all understandings of the Members. All prior agreements, understandings, representations whether consistent or inconsistent, verbal or written, concerning this JPA, are merged into and superseded by this written JPA. No modification or amendment to the JPA shall be binding unless all Members agree in writing to the proposed change or amendment.

ARTICLE XV MISCELLANEOUS

Section 15.1. Data Practices. The Members agree to comply with the Minnesota Government Data Practices Act, Minnesota Statutes, Chapter 13, as it applies to all data created, collected, received, stored, used, maintained or disseminated by Metro-INET. If a Member receives a request to release the data referred to in this section, it must immediately notify the executive director. The executive director will give the Member who has received the data request instructions concerning the release of the data to the requester before the data is released.

Section 15.2. Audit. The books, records and documents relevant to this JPA are subject to audit by the Members and the State of Minnesota at reasonable times upon written notice.

Section 15.3. Counterparts. This JPA may be executed simultaneously in two or more counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument.

Section 15.4. Headings. The subject headings of the sections and subsections of the JPA are included for purposes of convenience only, and shall not affect the construction of interpretation of any of its provisions.

Section 15.5. Severability. In case any one or more of the provisions of this JPA shall be invalid, illegal, or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained in this JPA will not in any way be affected or impaired thereby.

Section 15.6. Applicable Law. This JPA shall be governed by and construed in accordance with the laws of the State of Minnesota. Any disputes, controversies, or claims arising out of this JPA shall be heard in Minnesota state district or courts with the venue being in Ramsey County, and the Members waive any objection to the jurisdiction of these courts, whether based on convenience or otherwise.

ARTICLE XVI
DURATION

Section 16.1. Term. This JPA shall continue in effect indefinitely until terminated in accordance with its terms.

IN WITNESS WHEREOF, the undersigned local governmental unit has caused this JPA to be signed and delivered on its behalf.

(Name of LGU)

By: _____

Its: _____

By: _____

Its: _____

Dated: _____, 20____.

* * * * *

Permit Program

* * * * *



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: February 3, 2021

To: Board of Managers and Staff

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

Subject: January Enforcement Action Report

During January 2021:

Number of Violations: 0

Activities:

Permitting assistance to private developers and public entities, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration and procedures, new permit review with Barr Engineering, permit pre-submittal meetings, permit team check-in with communications coordinator, MS4 collaboration meeting with VLAWMO, U of M sponsored conversation with Resmaa Menakem: *Racial Healing, Equity, and Justice*, Contech presentation on biofiltration products

Project Updates:

19-41 Margaret Street Apartments -Uptown Commons (North St. Paul)

Staff conducted a routine inspection on January 12th and found the site to be compliant, but items will need to be installed or repaired closer to spring melt to ensure the site has no offsite impacts. These repairs include: 1) perimeter control install where the adjacent project (#19-51) has now paved the road surfaces 2) reinstalling rock at all construction entrances prior to thawing conditions to prevent sediment trackout and 3) temporarily stabilizing exposed soils when site conditions allow.

19-43 CDI Medical Office (Maplewood)

Staff completed an inspection on January 6th and found the site to be in good condition, but found two items that needed attention, the first being snow storage near the filtration basin that was installed in the fall of 2020. Staff communicated to contractors that snow should be

stored away from the basin to avoid an excess of sediment and salt from entering the basin during snowmelt conditions. Staff also found inlet protection to be damaged and blocking runoff from leaving the site. Staff encouraged contractors to monitor these conditions to ensure there are no ponding/safety issues onsite.

19-42 American Indian Magnet School Addition (St. Paul)

An inspection was conducted on January 5th, and staff found the site to be well maintained, with no immediate action items needed. The site seems well prepared for snowmelt and spring runoff, but staff will continue to closely inspect the site to ensure there are no issues when this time comes. Vertical construction and interior work continue through the winter months.

20-16 Mondello Shores (Little Canada, Vadnais Heights)

Staff completed a routine inspection on January 5th and found the site to be mostly snow-covered with minimal work occurring. Staff spoke with contactors onsite and verified that winter work will mostly consist of prepping each house lot for spring. Contractors were spreading straw mulch on areas that were newly exposed from active work. Staff will continue to inspect the site through the winter.

20-24 Maple Ridge Gas Station Hy-Vee (Maplewood)

Staff conducted a routine inspection on January 5th. Due to frozen conditions and snow cover, most perimeter control and inlet protection was not visible. The site is paved, and indoor work continues through the winter months. Staff mentioned on their report to ensure inlet protection is regularly cleaned out and left unobstructed to ensure snow melt and spring runoff does not cause any ponding or safety issues, as the site is in a strip mall that is frequented by a lot of community members.

Permits Closed:

19-25 Indian Mounds Regional Park Trail (St. Paul)

Permits Approved by Staff:

None

* * * * *

Stewardship Grant Program

* * * * *

Stewardship Grant Application Summary

Project Name: Lower Phalen Creek Study

Application Number: 21-01 CS

Board Meeting Date: 2/3/2021

Applicant Name: Sam Wegner

Residential

Commercial/Government

Project Overview:

In recent years, Lower Phalen Creek Project (LPCP) has worked to increase awareness and support for daylighting Phalen Creek. Daylighting this resource would restore a lost connection for Dakota people, create an urban water resource, and increase green space. LPCP completed a feasibility study for this process and is now planning to develop further plans. Funds from this grant will allow the project to develop a comprehensive design and plans for portions of the creek within RWMWD. Upon completion of these designs, this project hopes to continue to progress toward construction. LPCP would seek additional grant funding at that time.

BMP type(s):

Stormwater Research Project(1)

Grant Request:

\$10,000.00

Recommendation:

Staff recommends approval of this application for \$10,000 to apply towards the comprehensive study.

Subwatershed:

Lake Phalen

Location Maps:



MEMORANDUM

DATE: February 3, 2021
TO: Board of Managers and Staff
FROM: Paige Ahlborg, Watershed Project Manager
SUBJECT: Additional Information on the Lower Phalen Creek Study

At this meeting, staff will review a request for stewardship grant funding (#21-01 CS Lower Phalen Creek Study) to apply grant dollars to a study for the daylighting of Phalen Creek.

Lower Phalen Creek Project (LPCP) has spent considerable time in recent years engaging East Side residents and community members living along the Phalen Creek corridor. The corridor stretches from Lake Phalen south to the Mississippi River, tracing through the Payne-Phalen and Dayton's Bluff neighborhoods, and LPCP has worked to increase awareness and gauge support for the process of daylighting Phalen Creek. The historic path of Phalen Creek is, at present, woven through a corridor comprised of residential neighborhoods, multi-modal transitways, light-industrial and commercial lots, and once-geologically rich landscapes. Lake Phalen and Phalen Creek, including Swede Hollow, are areas of cultural and geological significance, particularly to the Dakota communities of Saint Paul. Daylighting this resource would not only restore a lost connection for Dakota people, it would create an urban water resource, and increase green space in the area.

LPCP has worked with Inter-Fluve and Capitol Region Watershed District (CRWD) on a [feasibility study for this daylighting process](#). In 2021, this project will capitalize on overwhelming community support to daylight Phalen Creek. Funds from this RWMWD grant along with potential grant funds from the National Fish and Wildlife Foundation's 5-Star Urban Waters & Restoration Grant Program, will allow the project to develop comprehensive design and implementation plans for Reach 7 which is within RWMWD stretching from Magnolia Avenue East to Wheelock Parkway. This land area is an unprogrammed area owned by the City of Saint Paul. This plan would include soil borings and geotechnical analysis, a detailed design rendering, and at least 10% construction plans. Additional funding and support is expected to come from many other partners including CRWD, City of St. Paul, Urban Roots, and Great River Greening. Upon completion of these designs in the winter of 2022, LPCP hopes to continue to progress toward construction and installation and will likely seek additional grant funding from RWMWD at that time.

Action Items

Staff is requesting action from the Board to approve stewardship grant application #21-01 CS for the Lower Phalen Creek Study.

You can view the Phalen Creek Daylighting Feasibility Study at:

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:45f7ba26-bf08-4b44-89f7-ea4a3d3051cc>

Stewardship Grant Program Budget Status Update

February 3, 2021

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

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 1	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	0	\$0
Priority Area Projects	100% Cost Share \$100,000 Max	0	\$0
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art/Project Research	50% Cost Share	1	\$10,000
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	\$0

Maintenance	50% Cost Share \$5,000 Max for 5 Years	41	\$31,500
Consultant Fees			\$0
Total Allocated			\$41,500

2021 Stewardship Grant Program Budget	
Budget	\$1,000,000
Total Funds Allocated	\$41,500
Total Available Funds	\$958,500

These numbers include \$10,000 in project funds pending approval at the February 3, 2021 board meeting.

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: February 3, 2021

Agenda Item No: 7A

Preparer: Tina Carstens, Administrator

Item Description: North St. Paul Target Store BMP Retrofit Accept Plans & Solicit Bids

Background:

See attached memo for more information.

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:

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

Financial Implications:

This project will be funded through the Targeted Retrofit Fund where there are sufficient funds available.

Board Action Requested:

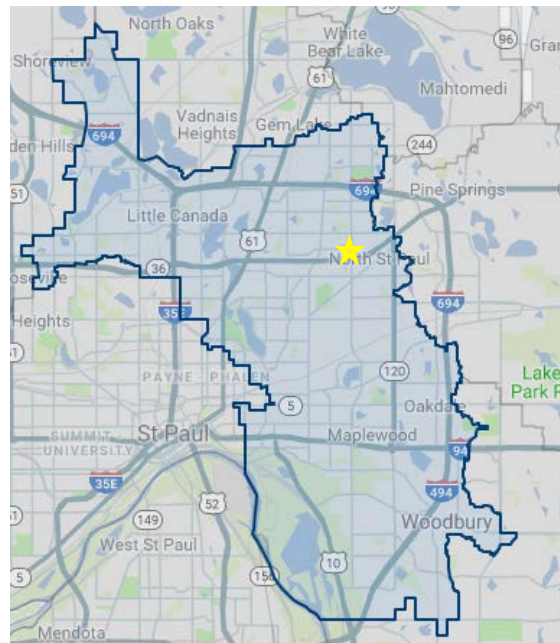
Approve the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.

Memorandum

To: Ramsey-Washington Metro Watershed District Board of Managers
From: Barr Engineering Co.
Subject: Target- North St. Paul Stormwater Retrofits – Request Board Authorization to Solicit Bids for Construction
Date: February 3, 2021
Project: 23/62-1328.00
c: Tina Carstens – RWMWD Administrator

Construction documents including bidding documents, technical specifications, and construction drawings have been prepared for the Target- North St. Paul Stormwater Retrofits project. The design consists of four surface rain gardens and two tree trench features. The stormwater features have been designed so that 45 percent of the parking lot will be tributary to a stormwater feature (rain garden or tree trench) and that 1.0 inch and 0.5 inches of stormwater runoff will be captured on average by the rain gardens and tree trenches, respectively.

The engineer's opinion of cost is shown in the Table 1. The opinion of probable cost provided is made on the basis of Barr Engineering's experience and qualifications and represents our best judgment as experienced and qualified professionals familiar with the project. Because we have no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor's methods of determining prices, or over competitive bidding or market conditions, Barr Engineering cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinion of probable cost presented.



North St. Paul Target Project Location

Table 1. Engineer’s Opinion of Probable Cost

Item	100% Submittal	Notes
CONSTRUCTION SUBTOTAL	\$1,082,000	1,2,3,4,5,6,7,8
CONSTRUCTION CONTINGENCY (10%)	\$108,000	1,4,8
ENGINEER’S OPINION OF PROBABLE CONSTRUCTION COST	\$1,190,000	1,2,3,4,5,6,7,8
ENGINEERING SUBTOTAL	\$200,000	9
ENGINEER’S OPINION OF TOTAL PROBABLE PROJECT COST + ENGINEERING	\$1,390,000	9

Notes:

- 1 Quantities based on Design Work Completed (100%).
- 2 Unit Prices Based on Information Available at This Time.
- 3 Limited Soil Boring and Field Investigation Information Available.
- 4 This design level (Class 1, 70-100% design completion per ASTM E 2516-11) cost estimate is based on 100% designs, alignments, quantities and unit prices. Costs will change with further design. Time value-of-money escalation costs are not included. A construction schedule is not available at this time. Contingency is an allowance for the net sum of costs that will be in the Final Total Project Cost at the time of the completion of design, but are not included at this level of project definition. The estimated accuracy range for the Total Project Cost as the project is defined is -5% to +10%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. The contingency and the accuracy range are not intended to include costs for future scope changes that are not part of the project as currently scoped or costs for risk contingency. Operation and Maintenance costs are not included.
- 5 Estimate assumes that projects will not be located on contaminated soil.
- 6 Estimate costs are to design, construct, and permit each alternative. The estimated costs do not include maintenance, monitoring or additional tasks following construction.
- 7 Furnish and Install pipe cost per linear foot includes all trenching, bedding, backfilling, compaction, and disposal of excess materials.
- 8 Estimate costs are reported to nearest thousand dollars.
- 9 Engineering includes estimated fees associated with final design, preparation of plans, specifications, contract documents, project bidding and construction administration and observation.

This opinion of cost results in an annual cost per pound of phosphorus removed of approximately \$13,400 - \$16,600 per lb total phosphorus (TP) removed per year. (range based on a 20- to 30-year project lifespan).

Request for Board of Managers

It is requested that the RWMWD Board of Managers authorize Barr Engineering Co. to solicit bids from contractors to construct the Target- North St. Paul Stormwater Retrofits project as designed and shown on the construction documents. If the Board of Managers authorizes solicitation of bids to construct the Target- North St. Paul Stormwater Retrofits Project, the following tasks would be completed:

- February 3, 2021 – Board of Managers authorizes Barr Engineering Co. to solicit bids
- February 8, 2021 (estimated) – Advertise in construction bulletin and local papers
- February 26, 2021 (estimated)– Open bids

To: Ramsey-Washington Metro Watershed District Board of Managers
From: Barr Engineering Co.
Subject: Target- North St. Paul Stormwater Retrofits – Request Board Authorization to Solicit Bids for Construction
Date: February 3, 2021February 3, 2021
Page: 3

- March 3, 2021 – Present bid results to the Board

Attachments

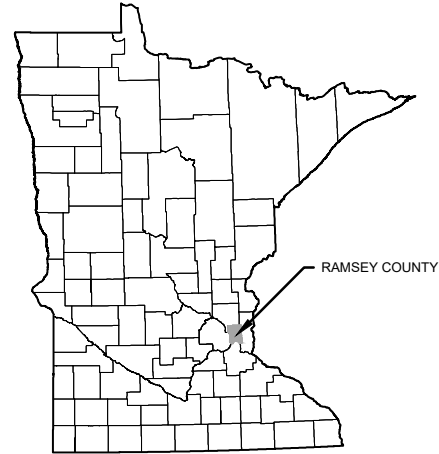
- Drawings for the Target- North St. Paul Stormwater Retrofits project
- Table of Contents for the Project Specifications

TARGET - NORTH ST. PAUL

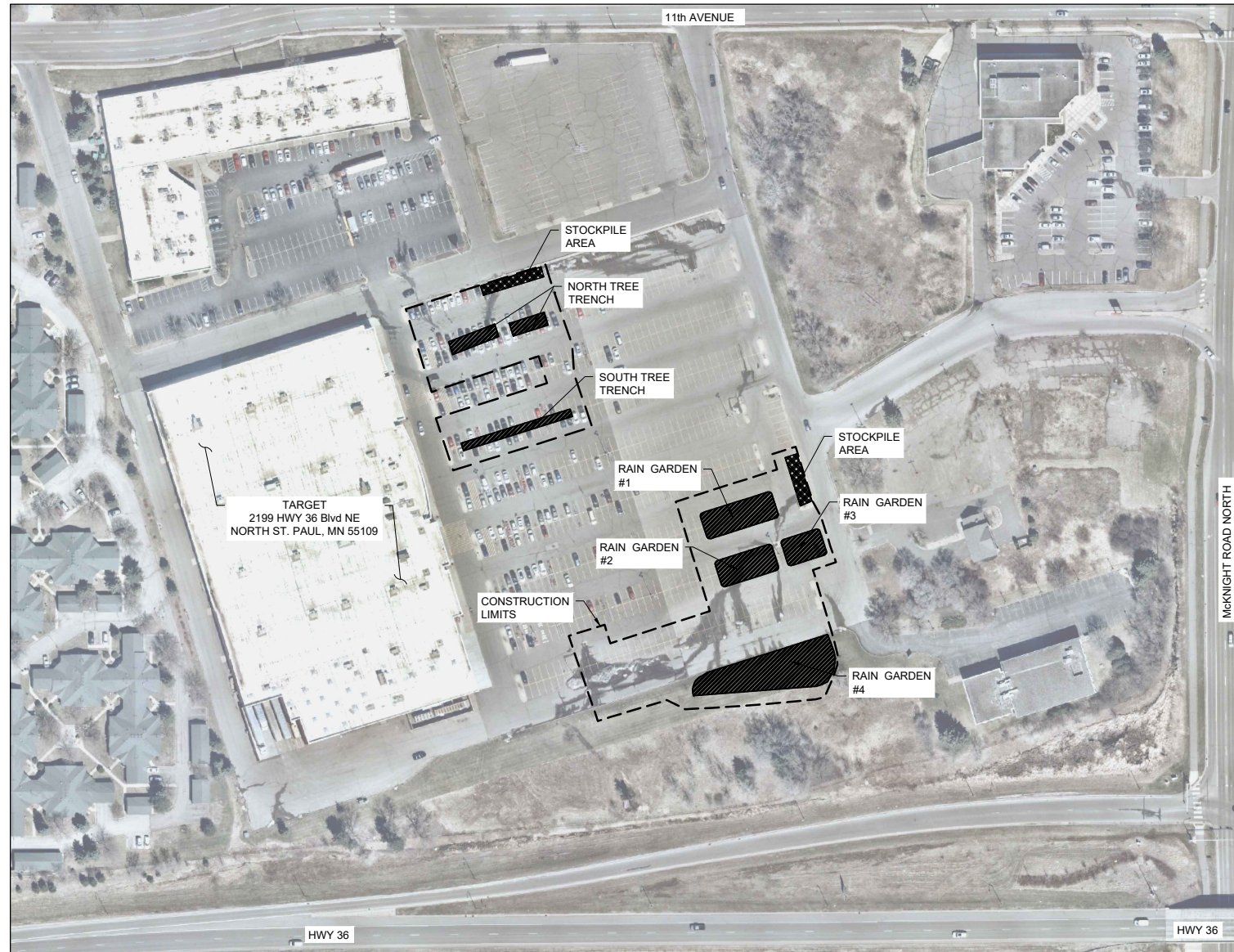
STORMWATER IMPROVEMENTS

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

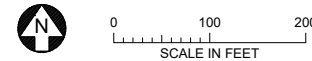
NORTH ST. PAUL, MN



MINNESOTA COUNTY MAP



PROJECT LOCATION MAP



INDEX OF SHEETS

- C0.0 ... PROJECT LOCATION AND SHEET INDEX
- C1.0 ... EXISTING CONDITIONS
- C1.1 ... REMOVALS
- C1.2 ... PAVING AND STRIPING PLAN
- C2.0 ... SITE BMP GENERAL LAYOUT
- C3.0 ... GRADING PLAN AND SECTIONS - RAIN GARDEN #1 - #3
- C3.1 ... GRADING PROFILES - RAIN GARDEN #1 - #3
- C3.2 ... GRADING PLAN, SECTIONS, AND PROFILE - RAIN GARDEN #4
- C4.0 ... UTILITY PLAN AND PROFILE - NORTH TREE TRENCH
- C4.1 ... UTILITY PLAN AND PROFILE - SOUTH TREE TRENCH
- C5.0 ... DETAILS - RAIN GARDENS
- C5.1 ... DETAILS - RAIN GARDENS
- C5.2 ... DETAILS - RAIN GARDENS
- C5.3 ... DETAILS - TREE TRENCH
- C5.4 ... DETAILS - TREE TRENCH
- C5.5 ... DETAILS - TREE TRENCH
- C6.0 ... STANDARD DETAILS
- C6.1 ... STANDARD DETAILS

- SW1.0 ... EROSION AND SEDIMENT CONTROL PLAN
- SW2.0 ... EROSION AND SEDIMENT CONTROL DETAILS

- L1.0 ... LANDSCAPE & RESTORATION PLAN - RAIN GARDENS
- L1.1 ... LANDSCAPE & RESTORATION PLAN - TREE TRENCHES
- L2.0 ... RESTORATION AND PLANTING DETAILS

- S1.0 ... RETAINING WALL PROFILE AND DETAILS - RAIN GARDEN #4
- S1.1 ... RETAINING WALL DETAILS

- B1.0 ... SOIL BORING LOGS

DRAWING NO. PREFIX KEY:

- C - CIVIL
- SW - STORMWATER EROSION/SEDIMENT CONTROL
- L - LANDSCAPE
- S - STRUCTURAL
- B - GEOTECHNICAL (BORING LOGS)

PROJECT COORDINATE SYSTEM:

HORIZONTAL: RAMSEY COUNTY COORDINATES, NAD83, 2011 ADJUSTMENT
 VERTICAL: NAVD88

CONTACTS:

LESLIE DELLANGELO, WATER RESOURCES ENGINEER
 BARR ENGINEERING CO.
 PHONE: 952-832-2720
 EMAIL: LDELLANGELO@BARR.COM

MATT KUMKA, LANDSCAPE ARCHITECT
 BARR ENGINEERING CO.
 PHONE: 952-831-2649
 EMAIL: MKUMKA@BARR.COM

PAIGE AHLBORG, WATERSHED PROJECT MANAGER
 RAMSEY-WASHINGTON METRO WATERSHED DISTRICT
 PHONE: 651-792-7964
 EMAIL: PAIGE.AHLBORG@RWMWD.ORG



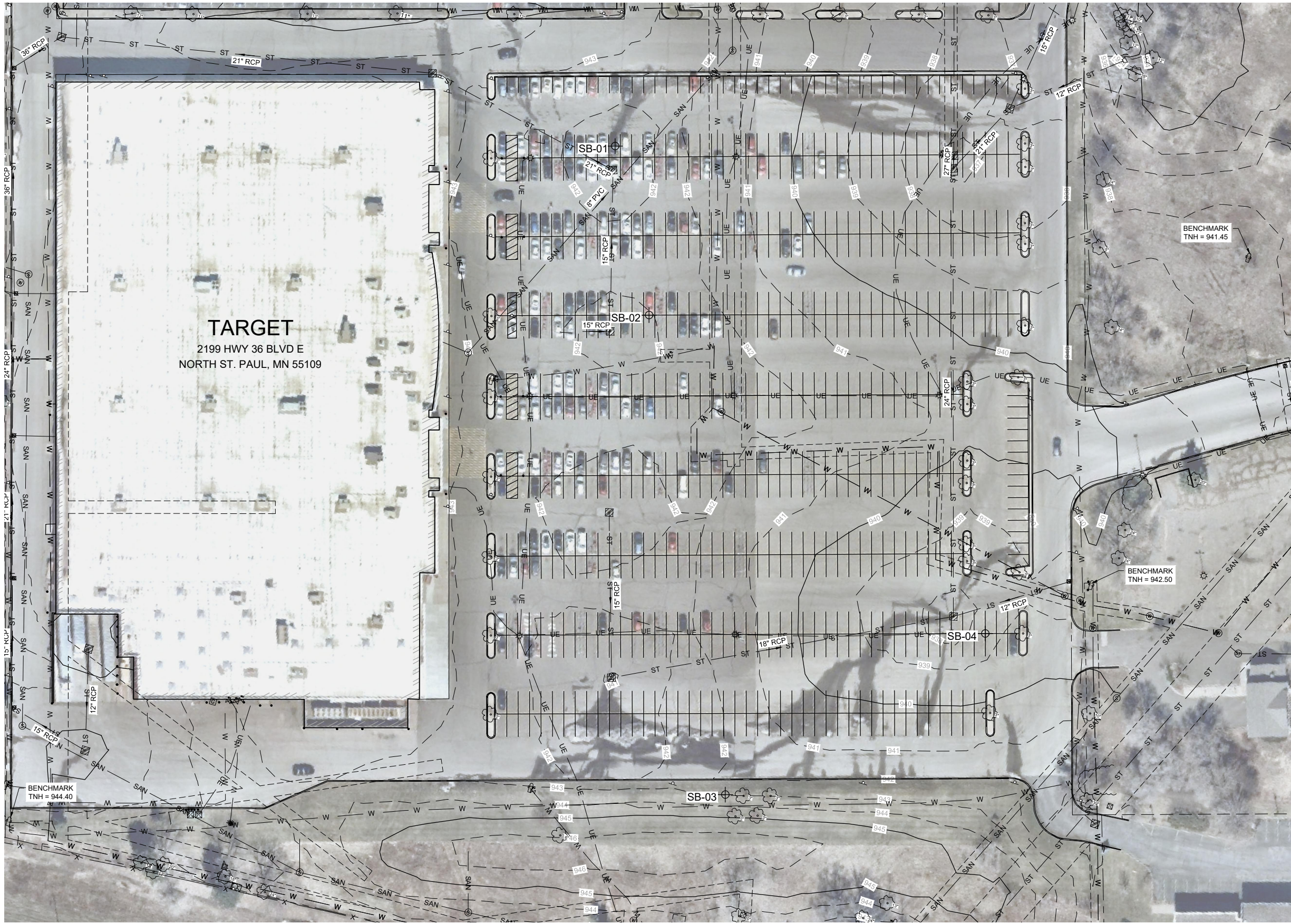
GOPHER STATE ONE CALL:
 CALL BEFORE YOU DIG.
 1-800-252-1166

ISSUED FOR
 BID

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION	11/25/20	01/26/21			Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435	Scale AS SHOWN		STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL PROJECT LOCATION AND SHEET INDEX	BARR PROJECT No. 23/62-1328.00		
PRINTED NAME Leslie A. DellAngelo	SIGNATURE 	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	CLIENT PROJECT No.
DATE 01/28/2021	LICENSE # 49094	DATE RELEASED									Drawn KJN2	DWG. No. C0.0	REV. No. 0
											Checked LAD		
											Designed BARR		
									Approved LAD				

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 User: M:\Design\238213280_002382132800_NSPT_C10_EXISTING CONDITIONS.dwg PLOT at: 20 08/01/2020 10:51:48



EXISTING CONDITIONS LEGEND	
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	1 FT CONTOUR
	PROPERTY LINE
	EASEMENT LINE
	STORM SEWER
	SANITARY SEWER
	GAS LINE
	OVERHEAD UTILITY
	UNDERGROUND ELECTRIC
	WATER MAIN
	FENCELINE
	CURB
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN
	SANITARY SEWER MANHOLE
	FIRE HYDRANT
	POTABLE WATER VALVE
	IRRIGATION SPRINKLER
	SIGN
	LIGHT POLE
	BOLLARDS
	DECIDUOUS TREE - DIAMETER
	CONIFEROUS TREE - DIAMETER
	SOIL BORING

- NOTES:**
- 1) CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
 - 2) UTILITY LOCATIONS ARE APPROXIMATE. ALL UTILITIES IN THE PROJECT AREA SHOULD BE MARKED AND POTHOLED PRIOR TO EXCAVATION.
 - 3) UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION
 - 4) PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
 - 5) FOR SOIL BORING LOGS, SEE B1.0.

PROJECT COORDINATE SYSTEM:
 HORIZONTAL: RAMSEY COUNTY COORDINATES, NAD83, 2011 ADJUSTMENT
 VERTICAL: NAVD88



ISSUED FOR
 BID

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: LESLIE A. DELLANGELO SIGNATURE: DATE: 01/28/2021 LICENSE #: 49994		CLIENT: 1/25/20 BID: 01/26/21 CONSTRUCTION:	BARR Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	Scale: AS SHOWN Date: 11/25/2020 Drawn: KJN2 Checked: LAD Designed: BARR Approved: LAD	RAMSEY-WASHINGTON METRO WATERSHED DISTRICT	STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL EXISTING CONDITIONS	BARR PROJECT No. 23/62-1328.00 CLIENT PROJECT No.	DWG. No. C1.0	REV. No. 0																
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	<table border="1"> <tr> <td>RELEASED TO/FOR</td> <td>A</td> <td>B</td> <td>C</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>DATE RELEASED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		RELEASED TO/FOR	A	B	C	0	1	2	3	DATE RELEASED									
RELEASED TO/FOR	A	B	C	0	1	2	3																		
DATE RELEASED																									

TARGET
2199 HWY 36 BLVD E
NORTH ST. PAUL, MN 55109

EXISTING CONDITIONS LEGEND

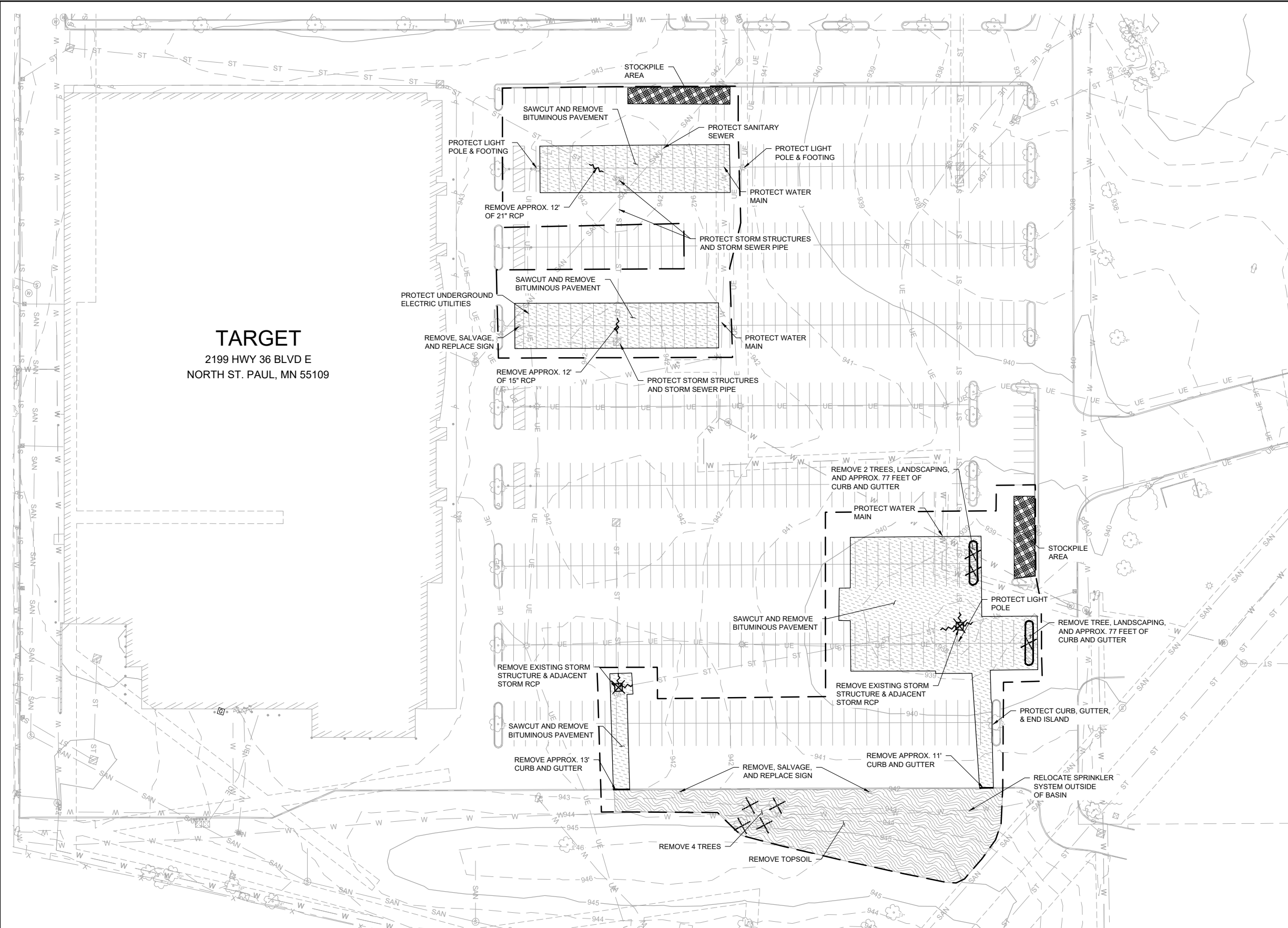
- 5 FT CONTOUR
- 1 FT CONTOUR
- - - - - PROPERTY LINE
- - - - - EASEMENT LINE
- ST STORM SEWER
- SAN SANITARY SEWER
- G GAS LINE
- OE OVERHEAD UTILITY
- UE UNDERGROUND ELECTRIC
- W WATER MAIN
- X FENCELINE
- CURB
- ⊙ STORM SEWER MANHOLE
- ⊠ STORM SEWER CATCH BASIN
- ⊙ SANITARY SEWER MANHOLE
- ⊕ FIRE HYDRANT
- ⊗ POTABLE WATER VALVE
- ⊙ IRRIGATION SPRINKLER
- ⊙ SIGN
- ⊙ LIGHT POLE
- BOLLARDS
- ⊙ DECIDUOUS TREE - DIAMETER
- ⊙ CONIFEROUS TREE - DIAMETER
- ⊙ SOIL BORING

REMOVALS LEGEND

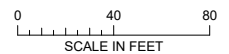
- - - - - CONSTRUCTION LIMITS
- ⊗ DECIDUOUS TREE REMOVAL
- ▨ BITUMINOUS REMOVAL
- ▨ TOPSOIL REMOVAL
- CURB AND GUTTER REMOVAL
- STORM SEWER REMOVAL
- ⊗ STORM SEWER CATCH BASIN REMOVAL
- ▨ STOCKPILE AREA

NOTES:

- 1) CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
- 2) UTILITY LOCATIONS ARE APPROXIMATE. ALL UTILITIES IN THE PROJECT AREA SHOULD BE MARKED AND POTHOLED PRIOR TO EXCAVATION.
- 3) UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- 4) PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
- 5) DO NOT REMOVE BITUMINOUS PAVEMENT UNTIL IMMEDIATELY PRIOR TO EXCAVATION.
- 6) ALL CONSTRUCTION ACCESS, PHASING, AND STAGING TO BE COORDINATED WITH OWNER AND TARGET. NORTHWEST CONSTRUCTION AREA (TREE TRENCHES) MUST BE STARTED AND COMPLETED WITHIN A TIME PERIOD NOTED IN THE SPECIFICATIONS.
- 7) A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS. ALL TRAFFIC CONTROL SIGNS AND BARRICADES SHALL BE PLACED BY CONTRACTOR AND APPROVED BY THE OWNER AND TARGET.



1 PLAN: REMOVALS



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

PRINTED NAME: **LESLIE A. DELLANGELO**

SIGNATURE: *[Signature]*

DATE: 01/28/2021 LICENSE # 49594

CLIENT	11/25/20					
BID				01/26/21		
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	0	1	2
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	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD



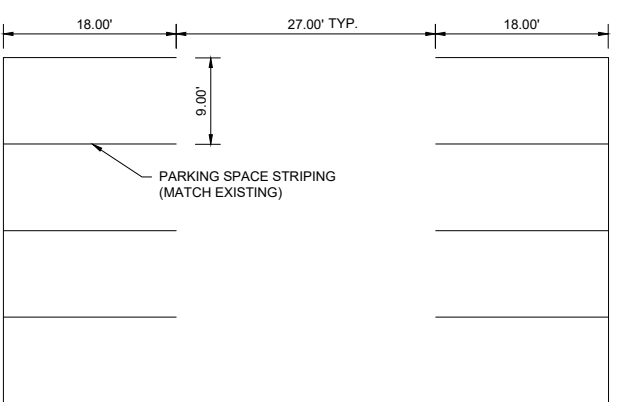
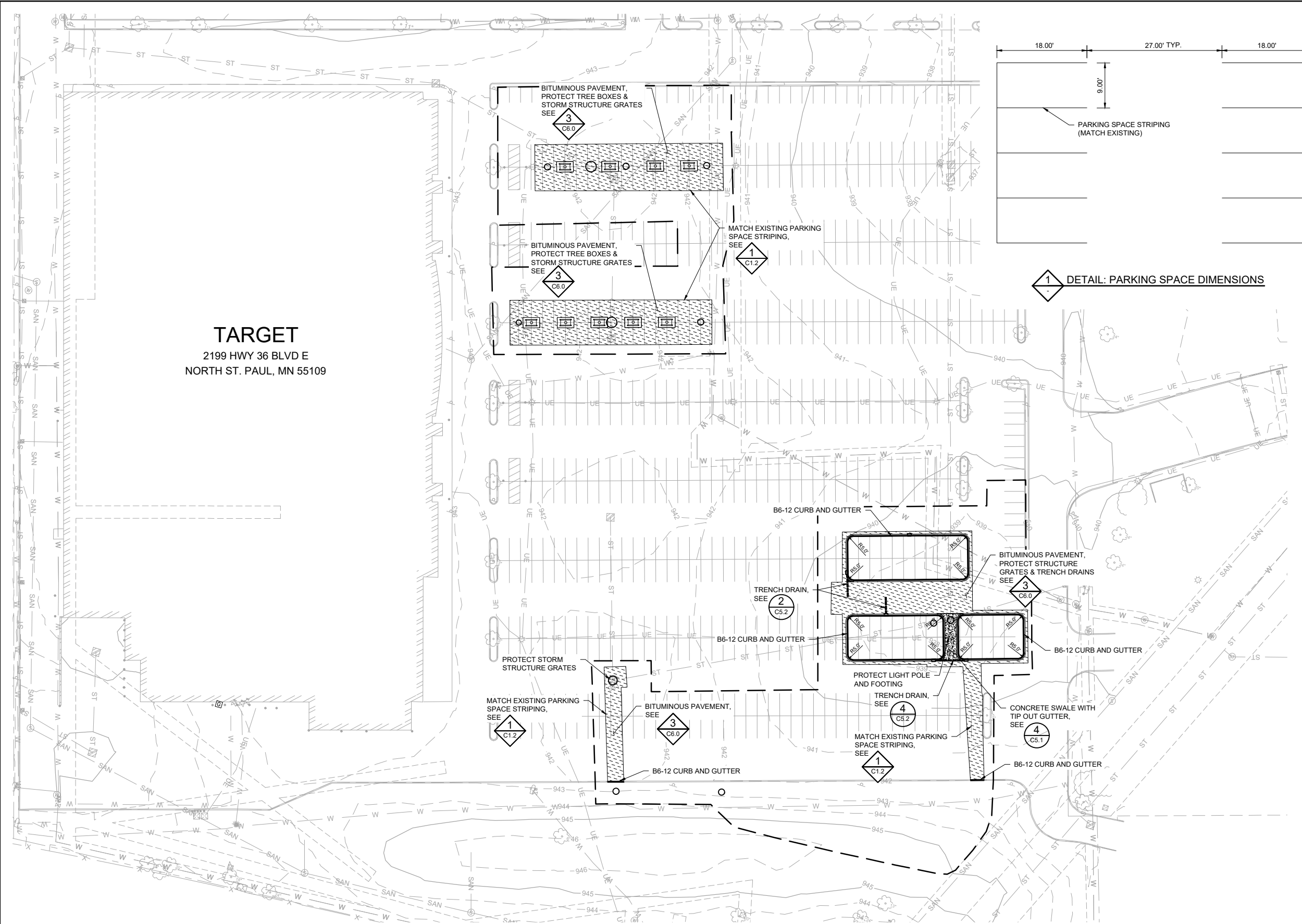
STORMWATER IMPROVEMENTS
TARGET - NORTH ST. PAUL

REMOVALS

BARR PROJECT No.	23/62-1328.00
CLIENT PROJECT No.	
DWG. No.	C1.1
REV. No.	0

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TARGET
 2199 HWY 36 BLVD E
 NORTH ST. PAUL, MN 55109



1 DETAIL: PARKING SPACE DIMENSIONS

- EXISTING CONDITIONS LEGEND**
- 890 5 FT CONTOUR
 - 889 1 FT CONTOUR
 - PROPERTY LINE
 - - - EASEMENT LINE
 - ST STORM SEWER
 - SAN SANITARY SEWER
 - G GAS LINE
 - OE OVERHEAD UTILITY
 - UE UNDERGROUND ELECTRIC
 - W WATER MAIN
 - X FENCELINE
 - CURB
 - ⊗ STORM SEWER MANHOLE
 - ⊠ STORM SEWER CATCH BASIN
 - ⊙ SANITARY SEWER MANHOLE
 - † FIRE HYDRANT
 - ⊕ POTABLE WATER VALVE
 - ⊙ IRRIGATION SPRINKLER
 - ⊙ SIGN
 - ⊙ LIGHT POLE
 - BOLLARDS
 - ⊙ DECIDUOUS TREE - DIAMETER
 - ⊙ CONIFEROUS TREE - DIAMETER
 - ⊙ SOIL BORING

- PAVING LEGEND**
- ▨ BITUMINOUS PAVEMENT **3** C6.0
 - ▨ CONCRETE SWALE **4** C5.1
 - - - 6" TRENCH DRAIN **4** C5.2
 - CURB AND GUTTER **1** C6.1
 - CATCH BASIN
 - STORM SEWER MANHOLE
 - ⊠ TREE BOX

- NOTES:**
- 1) ALL CONSTRUCTION ACCESS, PHASING, AND STAGING TO BE COORDINATED WITH OWNER AND TARGET.
 - 2) A TRAFFIC CONTROL PLAN SHOULD BE SUBMITTED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS. ALL TRAFFIC CONTROL SIGNS AND BARRICADES SHALL BE PLACED BY CONTRACTOR AND APPROVED BY THE OWNER AND TARGET.
 - 3) PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
 - 4) PROTECT ALL EXISTING CURB AND GUTTER THAT IS NOT SHOWN FOR REMOVAL.
 - 5) RE-STRIP ALL DISTURBED PARKING SPACES TO MATCH EXISTING.
 - 6) STRIPE ALL PARKING STALLS UNIFORMLY.
 - 7) ALL CONCRETE CURB AND GUTTER IS TIP-IN UNLESS NOTED OTHERWISE, SEE DETAIL 1, SHEET C6.1.

1 PLAN: PAVING AND STRIPING

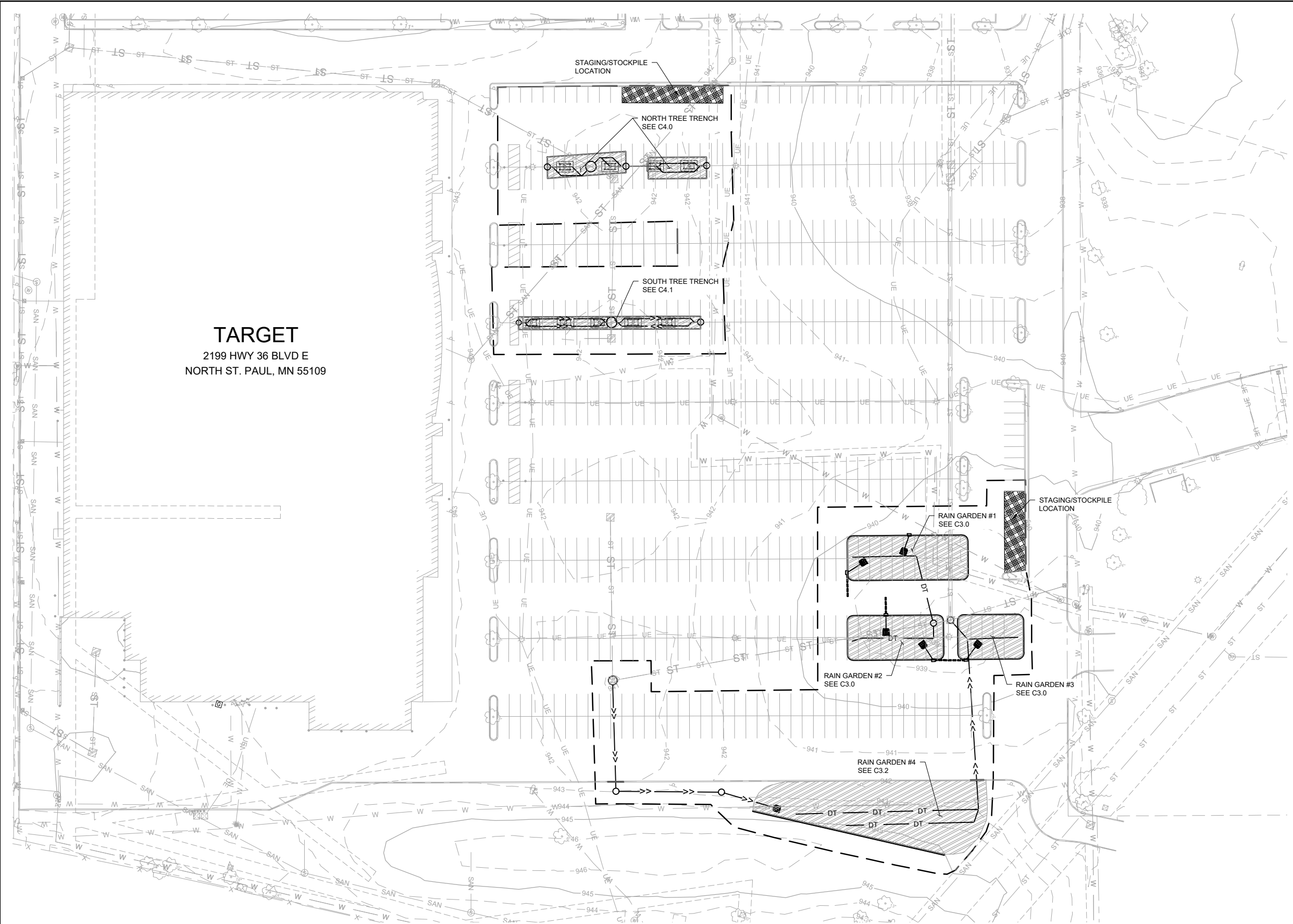


ISSUED FOR
 BID

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: LESLIE A. DELLANGELO SIGNATURE: <i>[Signature]</i> DATE: 01/26/21 LICENSE # 49994		CLIENT: BARR ENGINEERING CO. BID: 4300 MARKETPOINTE DRIVE CONSTRUCTION: Suite 200 MINNEAPOLIS, MN 55435 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 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	Scale: AS SHOWN Date: 11/25/2020 Drawn: KJN2 Checked: LAD Designed: BARR Approved: LAD	STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL PAVING AND STRIPING	BARR PROJECT No. 23/62-1328.00 CLIENT PROJECT No. DWG. No. C1.2 REV. No. 0
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TARGET
 2199 HWY 36 BLVD E
 NORTH ST. PAUL, MN 55109



- EXISTING CONDITIONS LEGEND**
- 5 FT CONTOUR
 - 1 FT CONTOUR
 - - - - - PROPERTY LINE
 - - - - - EASEMENT LINE
 - ST STORM SEWER
 - SAN SANITARY SEWER
 - G GAS LINE
 - OE OVERHEAD UTILITY
 - UE UNDERGROUND ELECTRIC
 - W WATER MAIN
 - X FENCELINE
 - CURB
 - ⊙ STORM SEWER MANHOLE
 - ⊞ STORM SEWER CATCH BASIN
 - ⊙ SANITARY SEWER MANHOLE
 - ⊕ FIRE HYDRANT
 - ⊗ POTABLE WATER VALVE
 - ⊙ IRRIGATION SPRINKLER
 - ⊙ SIGN
 - ⊙ LIGHT POLE
 - ⊙ BOLLARDS
 - ⊙ DECIDUOUS TREE - DIAMETER
 - ⊙ CONIFEROUS TREE - DIAMETER
 - ⊙ SOIL BORING

- BMPS LEGEND**
- CONSTRUCTION LIMITS
 - ⊞ SPLASH BLOCK ASSEMBLY
 - ⊞ TREE BOX
 - ⊙ STORM SEWER MANHOLE INSTALLATION
 - ⊞ STORM SEWER CATCH BASIN INSTALLATION
 - STORM SEWER INSTALLATION
 - DT DRAINTILE INSTALLATION
 - - - - - 6" TRENCH DRAIN
 - CURB AND GUTTER
 - STORMWATER RETROFIT LOCATION
 - ⊞ STOCKPILE AREA

NOTE:
 1) CONTRACTOR TO OBTAIN APPROPRIATE BUILDING AND GRADING PERMITS FROM THE CITY OF NORTH ST. PAUL.

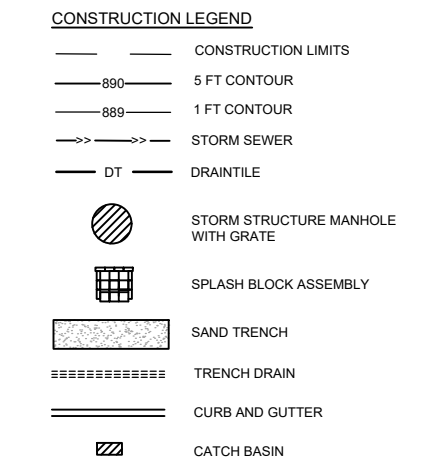
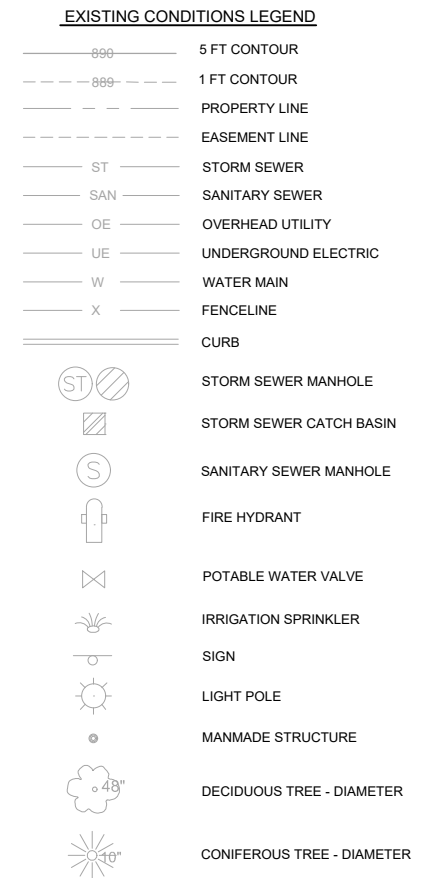
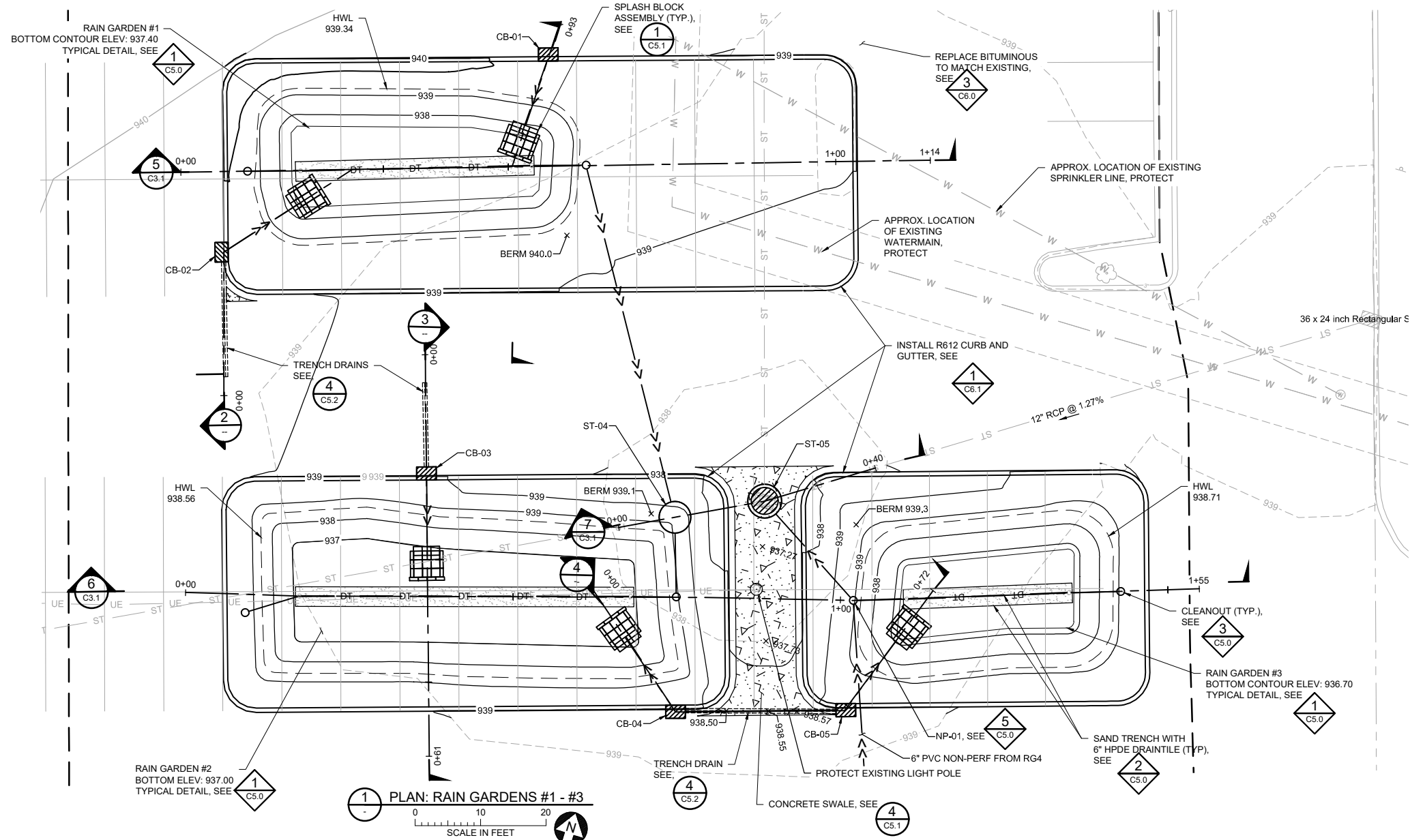
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ISSUED FOR
 BID

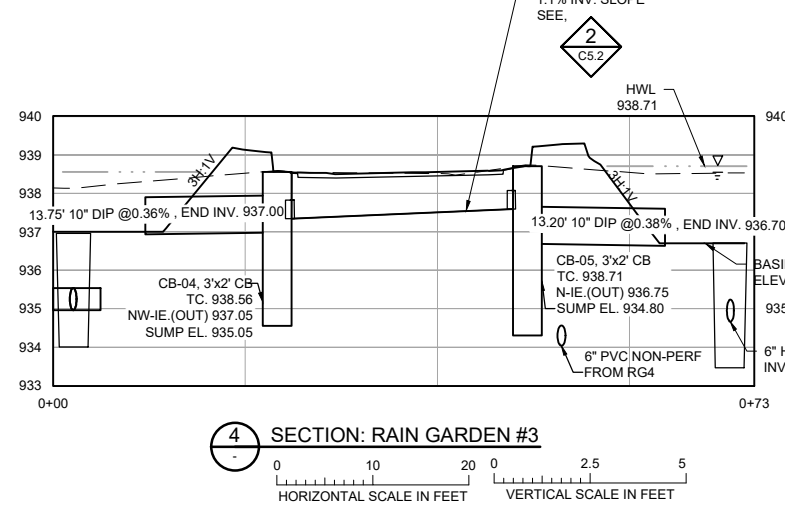
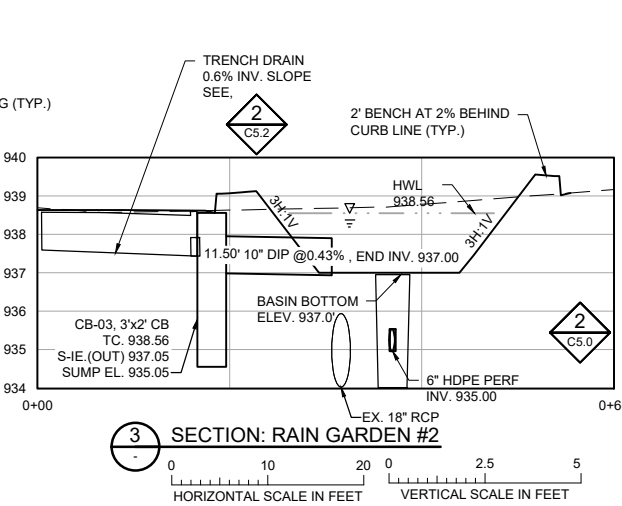
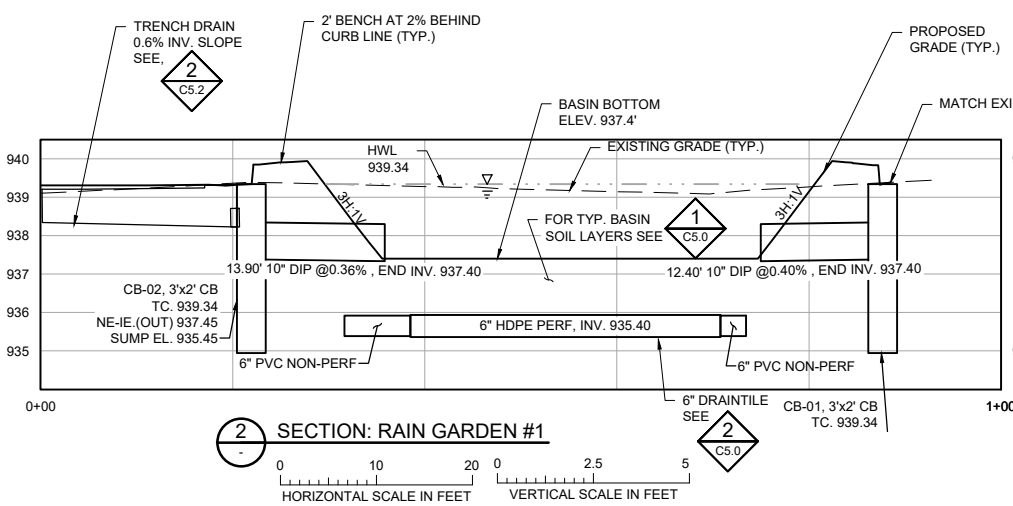
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: LESLIE A. DELLANGELO SIGNATURE: DATE: 01/28/2021 LICENSE #: 49394		CLIENT: BARR ENGINEERING CO. BID: 4300 MARKETPOINTE DRIVE CONSTRUCTION: Suite 200 MINNEAPOLIS, MN 55435		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: 11/25/2020 Drawn: KJN2 Checked: LAD Designed: BARR Approved: LAD		STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL SITE BMP GENERAL LAYOUT		BARR PROJECT No. 23/62-1328.00 CLIENT PROJECT No.	
		RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:		DWG. No. C2.0 REV. No. 0							



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- NOTES:**
- CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
 - UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
 - FOR EROSION CONTROL NOTES AND DETAILS, SEE SHEET SW1.0 AND SW2.0.
 - FOR PAVING PLAN, SEE SHEET C1.2.
 - FOR PLANTING PLAN, SEE SHEET L1.0.
 - FOR SOIL BORING LOGS, SEE SHEET B1.0.



ISSUED FOR
 BID

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: LESLIE A. DELLANGELO
 SIGNATURE: [Signature]
 DATE: 01/26/21 LICENSE # 49094

CLIENT	1/25/20	01/26/21				
BID						
CONSTRUCTION						

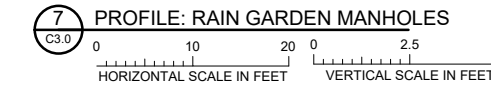
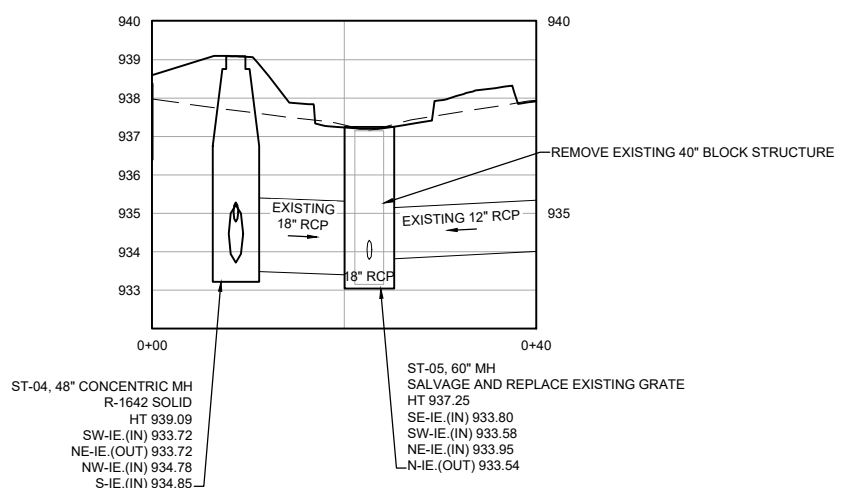
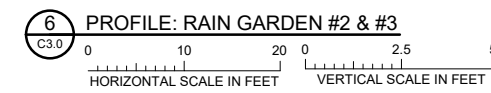
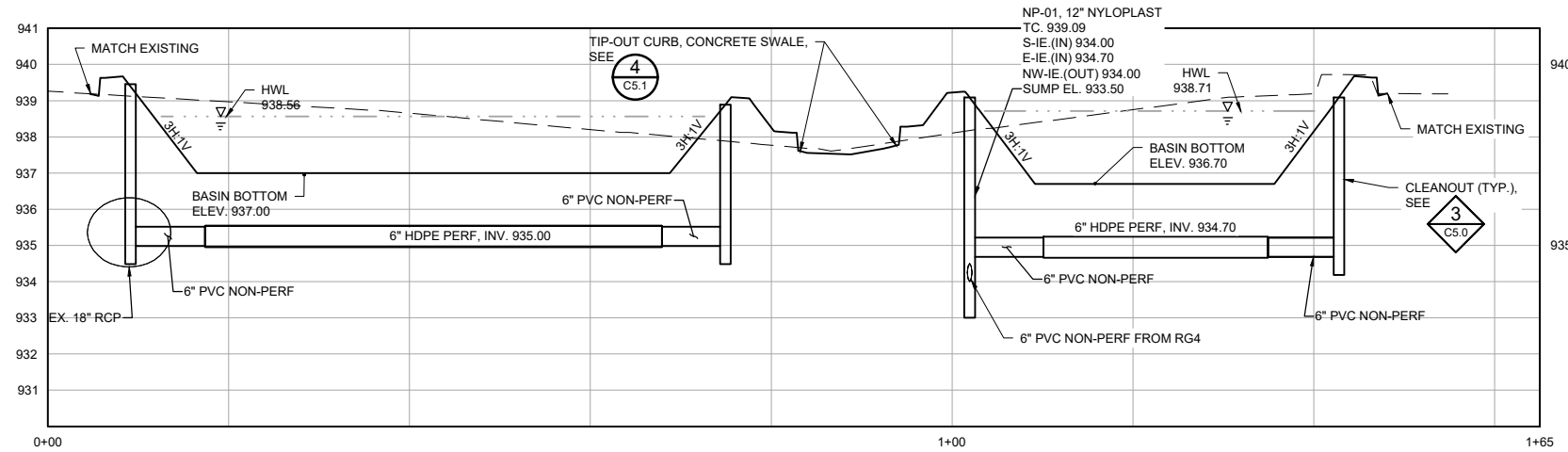
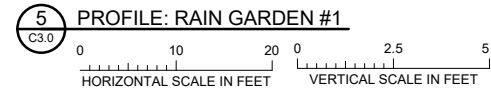
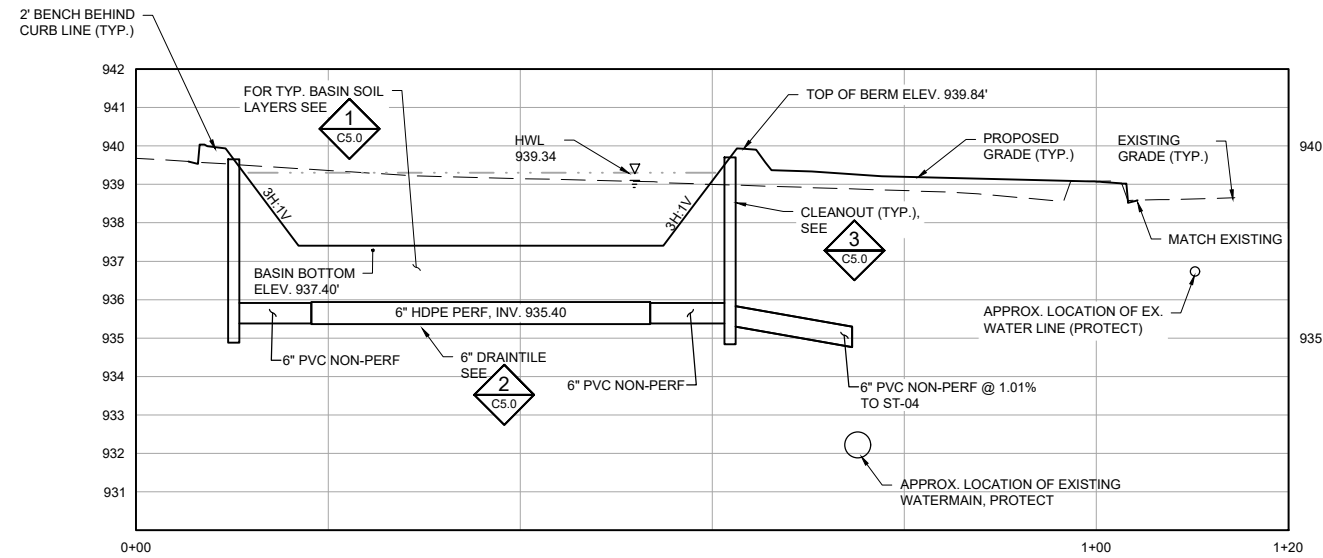
BARR Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Scale	AS SHOWN
Date	11/25/2020
Drawn	GWB
Checked	KJN2
Designed	BARR
Approved	LAD

RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL
GRADING PLAN AND SECTIONS
 RAIN GARDENS #1 - #3

BARR PROJECT No.	23/62-1328.00
CLIENT PROJECT No.	
DWG. No.	C3.0
REV. No.	0



ISSUED FOR
BID

CAD USER: Gareth W. Becker FILE: M:\DESIGN\2021\2021\1328\00\NSPT_C3.1\RG1-3_PROFILES DWG PLOT SCALE: 1:2 PLOT DATE: 1/26/2021 1:32 PM
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NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: **LESLIE A. DELLANGELO**
 SIGNATURE: *[Signature]*
 DATE: 01/28/2021 LICENSE # 29094

CLIENT	1/25/20
BID	01/26/21
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
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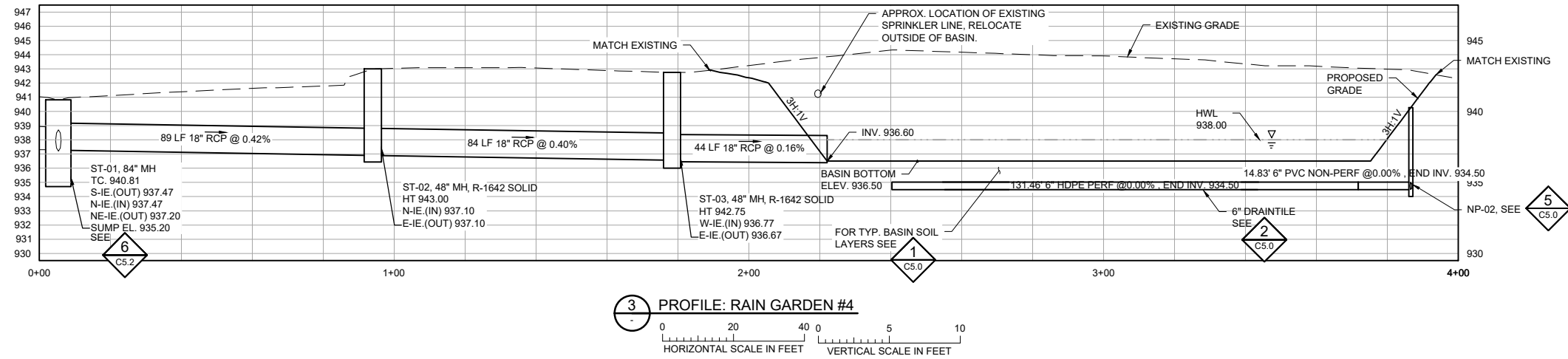
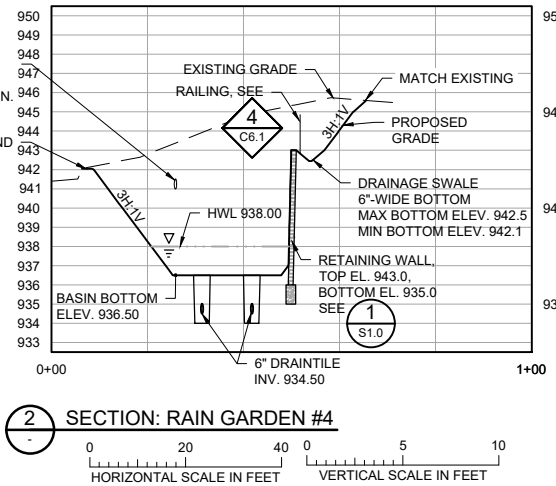
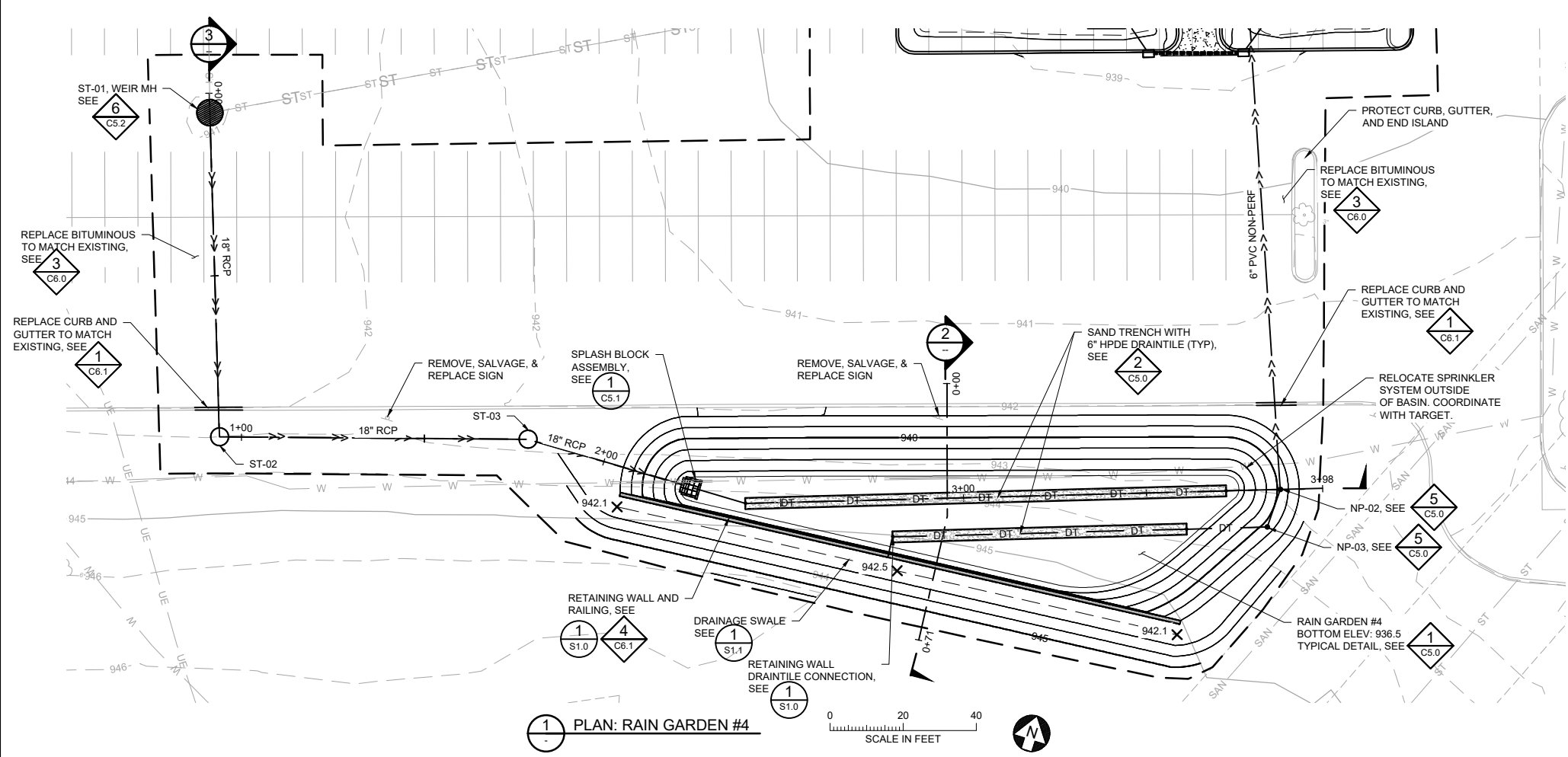
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Date	11/25/2020
Drawn	GWB
Checked	KJN2
Designed	BARR
Approved	LAD



STORMWATER IMPROVEMENTS
TARGET - NORTH ST. PAUL
GRADING PROFILES
RAIN GARDENS #1 - #3

BARR PROJECT No.		23/62-1328.00
CLIENT PROJECT No.		
DWG. No.	C3.1	REV. No.
		0

- EXISTING CONDITIONS LEGEND**
- 890 5 FT CONTOUR
 - 889 1 FT CONTOUR
 - ST PROPERTY LINE
 - SAN STORM SEWER
 - OE SANITARY SEWER
 - UE OVERHEAD UTILITY
 - W UNDERGROUND ELECTRIC
 - X WATER MAIN
 - FENCELINE
 - ST STORM SEWER MANHOLE
 - S SANITARY SEWER MANHOLE
 - FH FIRE HYDRANT
 - PV POTABLE WATER VALVE
 - IS IRRIGATION SPRINKLER
 - SG SIGN
 - LP LIGHT POLE
 - MS MANMADE STRUCTURE
 - DT 48" DECIDUOUS TREE - DIAMETER
 - CT 10" CONIFEROUS TREE - DIAMETER
- CONSTRUCTION LEGEND**
- CONSTRUCTION LIMITS
 - 890 5 FT CONTOUR
 - 889 1 FT CONTOUR
 - ST STORM SEWER
 - DT DRAINTILE
 - SSM STORM STRUCTURE MANHOLE WITH GRATE
 - SSM STORM STRUCTURE MANHOLE
 - SBA SPLASH BLOCK ASSEMBLY
 - ST SAND TRENCH
 - CG CURB AND GUTTER
 - RW RETAINING WALL
- NOTES:**
- CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
 - UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
 - FOR EROSION CONTROL NOTES AND DETAILS, SEE SHEET SW1.0 AND SW2.0.
 - FOR PAVING PLAN, SEE SHEET C1.2.
 - FOR PLANTING PLAN, SEE SHEET L1.0.
 - FOR SOIL BORING LOGS, SEE SHEET B1.0.



CADD USER: Katie J. Turpin-Nigel FILE: M:\DESIGN\236213280\002362132800_NSPT_C3.2_RG4_PLAN_SEC_PROF.DWG PLOT SCALE: 1:2 PLOT DATE: 1/25/2021 1:10 PM
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ISSUED FOR
BID

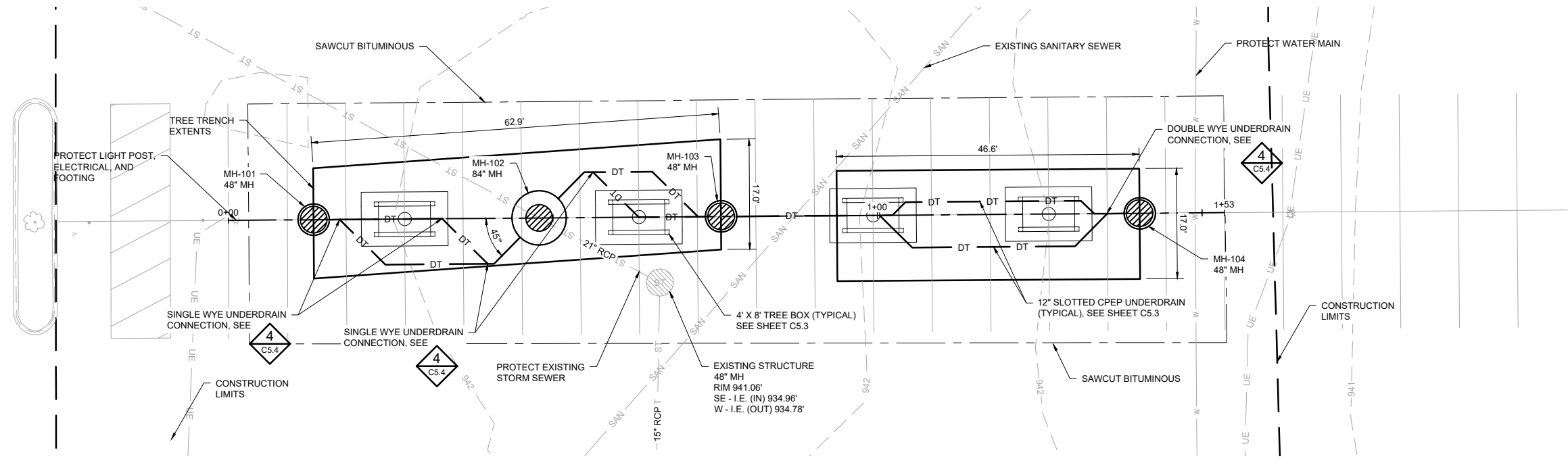
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: LESLIE A. DELLANGELO SIGNATURE: <i>[Signature]</i> DATE: 01/28/2021 LICENSE #: 49094		CLIENT: 1/25/20 BID: 01/26/21 CONSTRUCTION:		BARR Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		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: 11/25/2020 Drawn: KJN2 Checked: LAD Designed: BARR Approved: LAD		STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL GRADING PLAN, SECTION, & PROFILE RAIN GARDEN #4		BARR PROJECT No. 23/62-1328.00 CLIENT PROJECT No.		DWG. No. C3.2 REV. No. 0	
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EXISTING CONDITIONS LEGEND

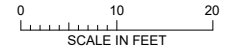
- 5 FT CONTOUR
- 1 FT CONTOUR
- PROPERTY LINE
- ST - STORM SEWER
- SAN - SANITARY SEWER
- OE - OVERHEAD UTILITY
- UE - UNDERGROUND ELECTRIC
- W - WATER MAIN
- X - FENCELINE
- CURB
- ST 48" - STORM SEWER MANHOLE
- ST 24" - STORM SEWER CATCH BASIN
- S 48" - SANITARY SEWER MANHOLE
- FH - FIRE HYDRANT
- PWV - POTABLE WATER VALVE
- IS - IRRIGATION SPRINKLER
- SIGN
- LP - LIGHT POLE
- MS - MANMADE STRUCTURE
- DT 48" - DECIDUOUS TREE - DIAMETER
- DT 10" - CONIFEROUS TREE - DIAMETER

CONSTRUCTION LEGEND

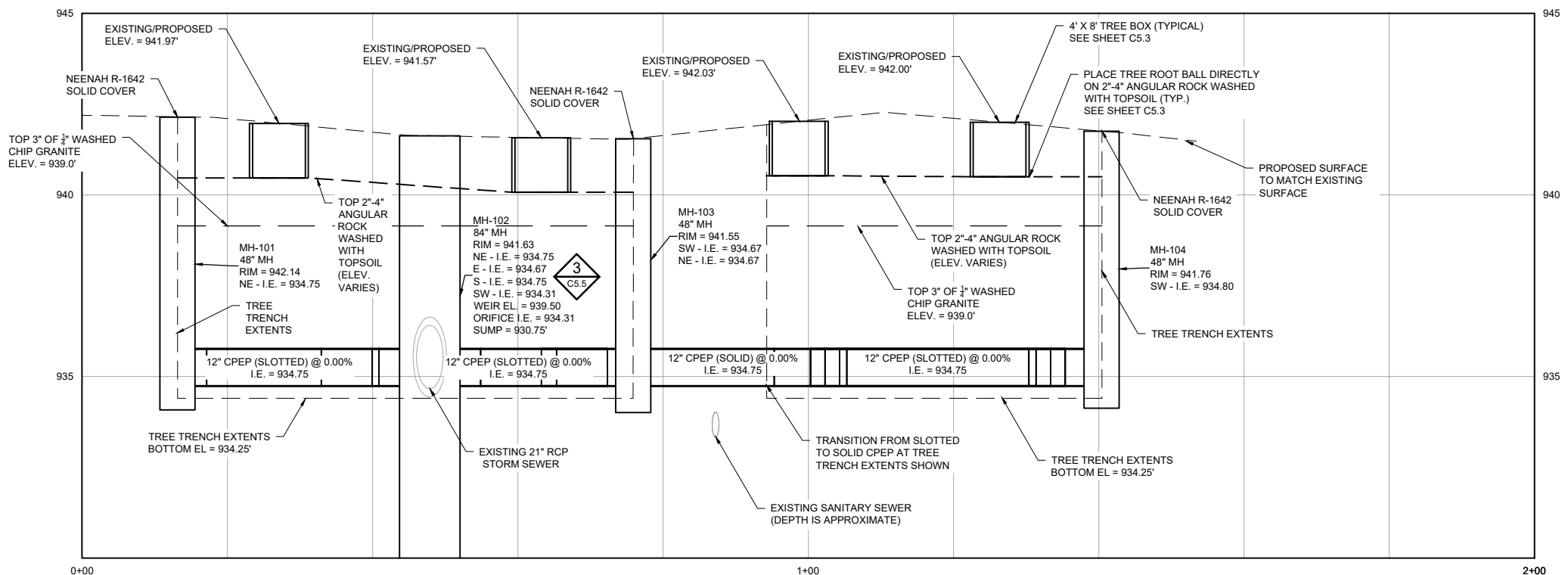
- CONSTRUCTION LIMITS
- DT - DRAINTILE
- SAWCUT BITUMINOUS
- STORM STRUCTURE MANHOLE WITH GRATE



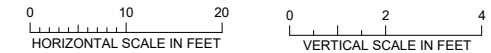
1 PLAN: NORTH TREE TRENCH



- TREE TRENCH NOTES:**
- SEE SHEETS C5.3, C5.4 AND C5.5 FOR TREE TRENCH DETAILS AND TYPICAL SECTIONS.
 - SEE TECHNICAL SPECIFICATIONS FOR TREE TRENCH SEQUENCING AND INSTALLATION NOTES.
 - 12-INCH CPEP DRAINTILE DENOTES DUAL WALL CORRUGATED POLYETHYLENE DRAINTILE WITH SLITS AND NO FABRIC SOCK.
 - CPEP FITTINGS ARE NOT PERFORMATED.
 - PIPE CONNECTIONS SHALL BE WATER TIGHT.



1 PROFILE: NORTH TREE TRENCH



- GENERAL NOTES:**
- CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
 - UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
 - FOR EROSION CONTROL NOTES AND DETAILS, SEE SHEET SW1.0 AND SW2.0.
 - FOR PAVING PLAN, SEE SHEET C1.2.
 - FOR PLANTING PLAN, SEE SHEET L1.0.
 - FOR SOIL BORING LOGS, SEE SHEET B1.0.
 - PROPOSED GRADES ARE SHOWN BASED ON EXISTING SURVEY INFORMATION. ACTUAL ELEVATIONS MAY VARY IN THE FIELD. DO WORK, TO THE EXTENT POSSIBLE, TO MATCH GRADES AND TOLERANCES SHOWN ON THE TYPICAL SECTIONS AND LISTED IN THE TECHNICAL SPECIFICATIONS.

ISSUED FOR BID

CADD USER: Dallen.J.Weber FILE: M:\DESIGN\2328\1328\0023282132800_NSPT_C4.0 UTILITY PLAN AND PROFILE-NORTH TREE TRENCH.DWG PLOT SCALE: 1/2"=1'-0" PLOT DATE: 1/25/2021 8:44 AM
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 Plots: M:\Design\2328\1328\0023282132800_NSPT_C4.1 UTILITY PLAN AND PROFILE-NORTH TREE TRENCH.dwg Plot at: 10/09/01/2020 15:12:34

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: LESLIE A. DELLANGELO
 SIGNATURE:
 DATE: 01/26/2021 LICENSE # 49094

CLIENT	1/25/2020					
BID						
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	0	1	2
DATE RELEASED						

BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 932-2601
 www.barr.com

Scale	AS SHOWN
Date	11/25/2020
Drawn	JPP/DJW3
Checked	KJN2
Designed	BARR
Approved	LAD

RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

**STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL**

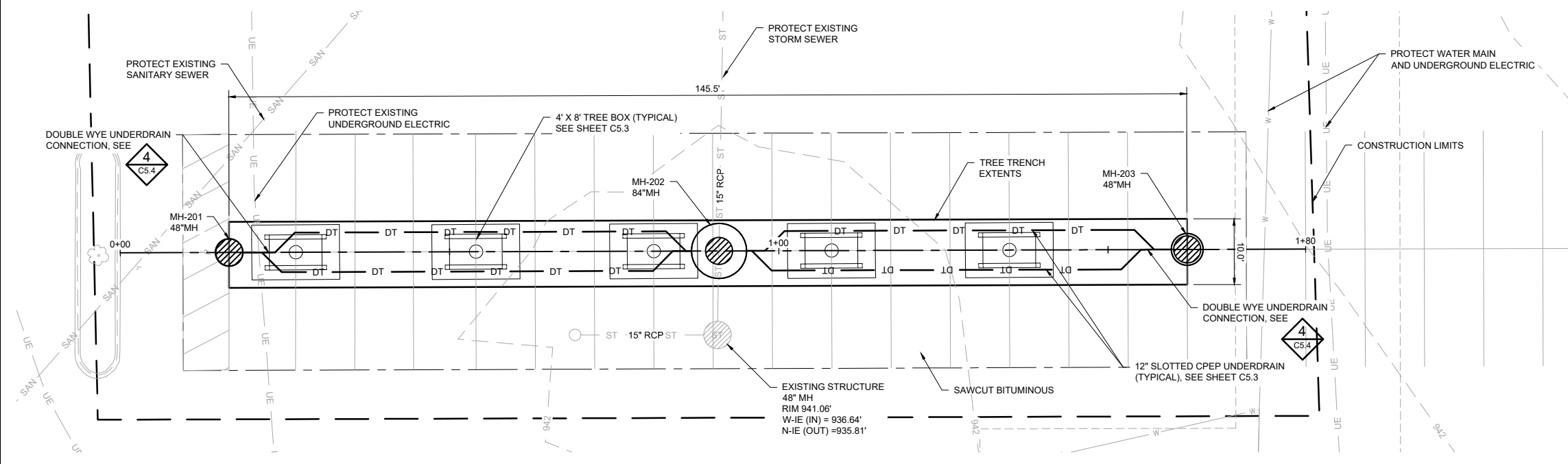
UTILITY PLAN AND PROFILE
 NORTH TREE TRENCH

BARR PROJECT No.	23/62-1328.00
CLIENT PROJECT No.	
DWG. No.	C4.0
REV. No.	0

EXISTING CONDITIONS LEGEND	
	5 FT CONTOUR
	1 FT CONTOUR
	PROPERTY LINE
	STORM SEWER
	SANITARY SEWER
	OVERHEAD UTILITY
	UNDERGROUND ELECTRIC
	WATER MAIN
	FENCELINE
	CURB
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN
	SANITARY SEWER MANHOLE
	FIRE HYDRANT
	POTABLE WATER VALVE
	IRRIGATION SPRINKLER
	SIGN
	LIGHT POLE
	MANMADE STRUCTURE
	DECIDUOUS TREE - DIAMETER
	CONIFEROUS TREE - DIAMETER

CONSTRUCTION LEGEND	
	CONSTRUCTION LIMITS
	DRAINTILE
	SAWCUT BITUMINOUS
	STORM STRUCTURE MANHOLE WITH GRATE

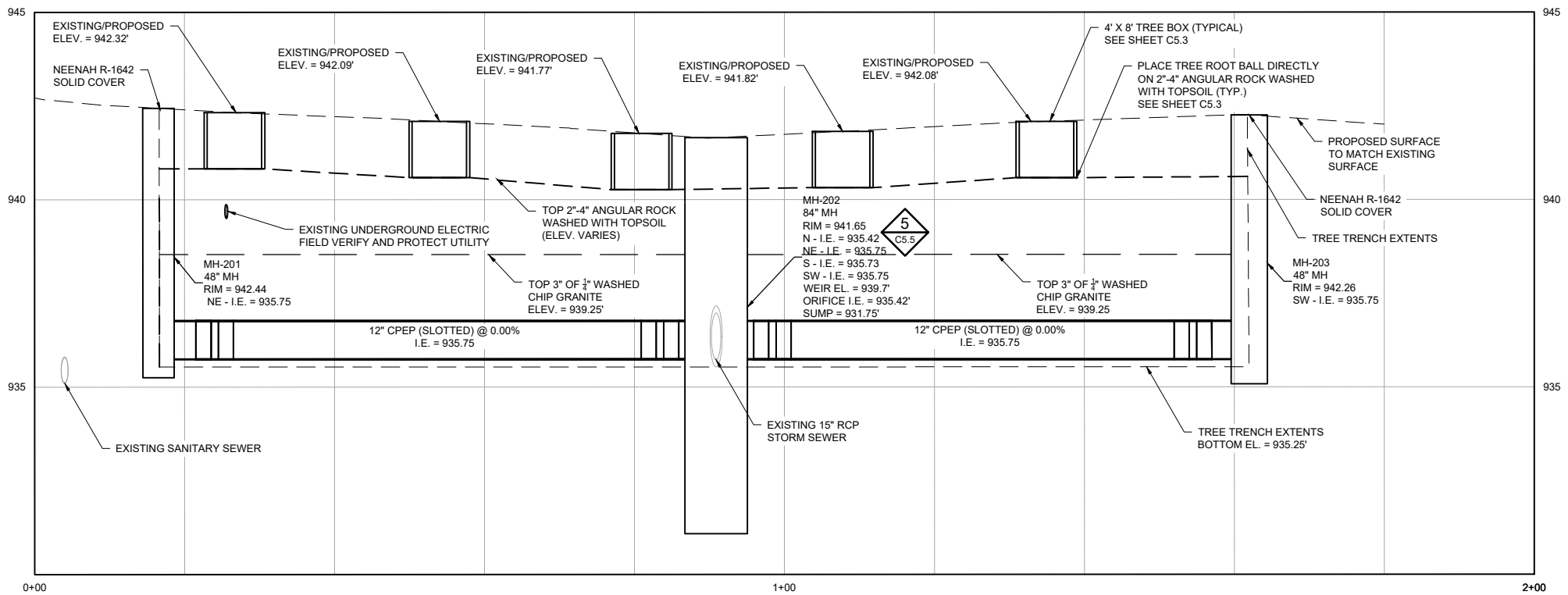
- GENERAL NOTES:**
- CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
 - UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
 - FOR EROSION CONTROL NOTES AND DETAILS, SEE SHEET SW1.0 AND SW2.0.
 - FOR PAVING PLAN, SEE SHEET C1.2.
 - FOR PLANTING PLAN, SEE SHEET L1.0.
 - FOR SOIL BORING LOGS, SEE SHEET B1.0.
 - PROPOSED GRADES ARE SHOWN BASED ON EXISTING SURVEY INFORMATION. ACTUAL ELEVATIONS MAY VARY IN THE FIELD. DO WORK, TO THE EXTENT POSSIBLE, TO MATCH GRADES AND TOLERANCES SHOWN ON THE TYPICAL SECTIONS AND LISTED IN THE TECHNICAL SPECIFICATIONS.



1 PLAN: SOUTH TREE TRENCH

0 10 20 SCALE IN FEET

- TREE TRENCH NOTES:**
- SEE SHEETS C5.3, C5.4 AND C5.5 FOR TREE TRENCH DETAILS AND TYPICAL SECTIONS.
 - SEE TECHNICAL SPECIFICATIONS FOR TREE TRENCH SEQUENCING AND INSTALLATION NOTES.
 - 12-INCH CPEP DRAINTILE DENOTES DUAL WALL CORRUGATED POLYETHYLENE DRAINTILE WITH SLITS AND NO FABRIC SOCK.
 - CPEP FITTINGS ARE NOT PERFORMED.
 - PIPE CONNECTIONS SHALL BE WATER TIGHT.



1 PROFILE: SOUTH TREE TRENCH

0 10 20 SCALE IN FEET

0 2 4 VERTICAL SCALE IN FEET

CAD USER: Dallen J. Webster FILE: M:\DESIGN\23621328\02\23621328\00\NSPT_C4_1\UTILITY PLAN AND PROFILE-SOUTH TREE TRENCH.DWG PLOT SCALE: 1:2 PLOT DATE: 1/25/2021 8:55 AM
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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

PRINTED NAME: LESLIE A. DELLANGELO

SIGNATURE:

DATE: 01/26/21 LICENSE # 39094

CLIENT	1/25/2021
BID	01/26/21
CONSTRUCTION	
RELEASED TO/FOR	A B C 0 1 2 3
DATE RELEASED	

BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435

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

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

Scale	AS SHOWN
Date	11/25/2020
Drawn	DJW3
Checked	KJN2
Designed	BARR
Approved	LAD

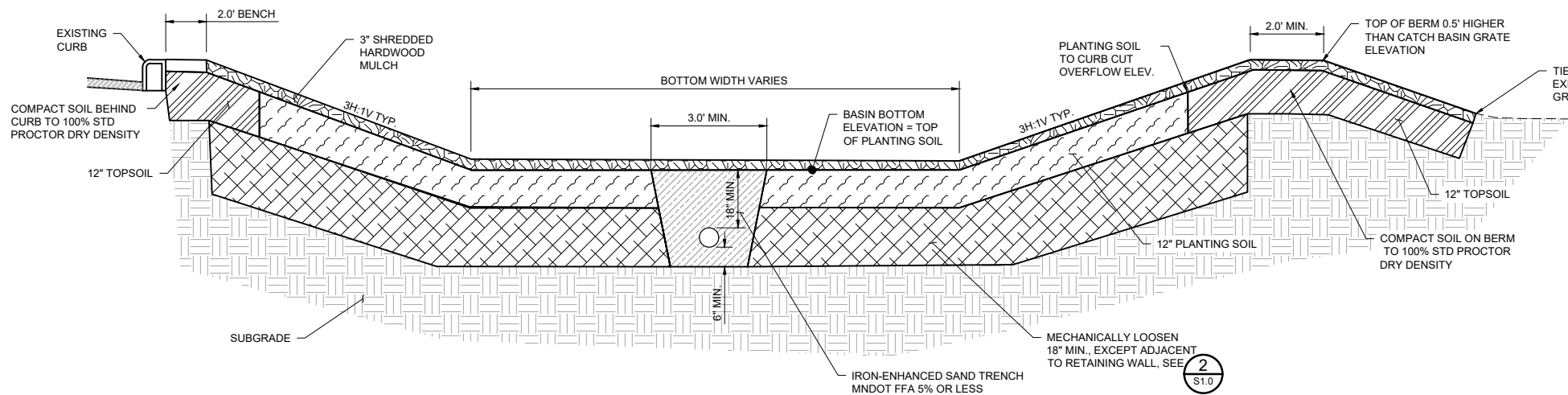


STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL

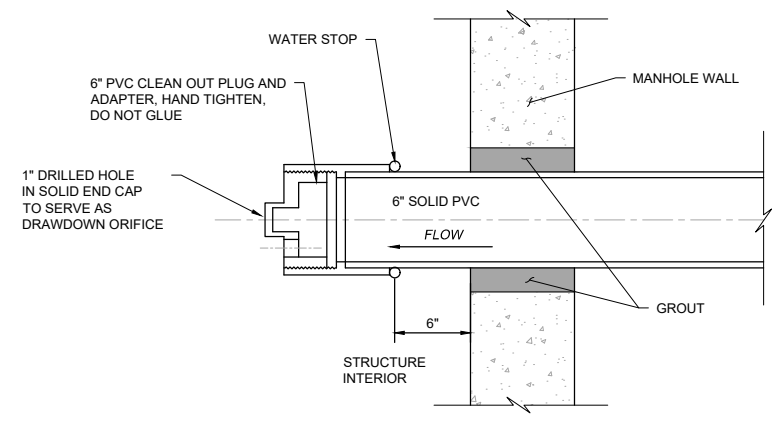
UTILITY PLAN AND PROFILE
 SOUTH TREE TRENCH

BARR PROJECT No.	23/62-1328.00
CLIENT PROJECT No.	
DWG. No.	C4.1
REV. No.	0

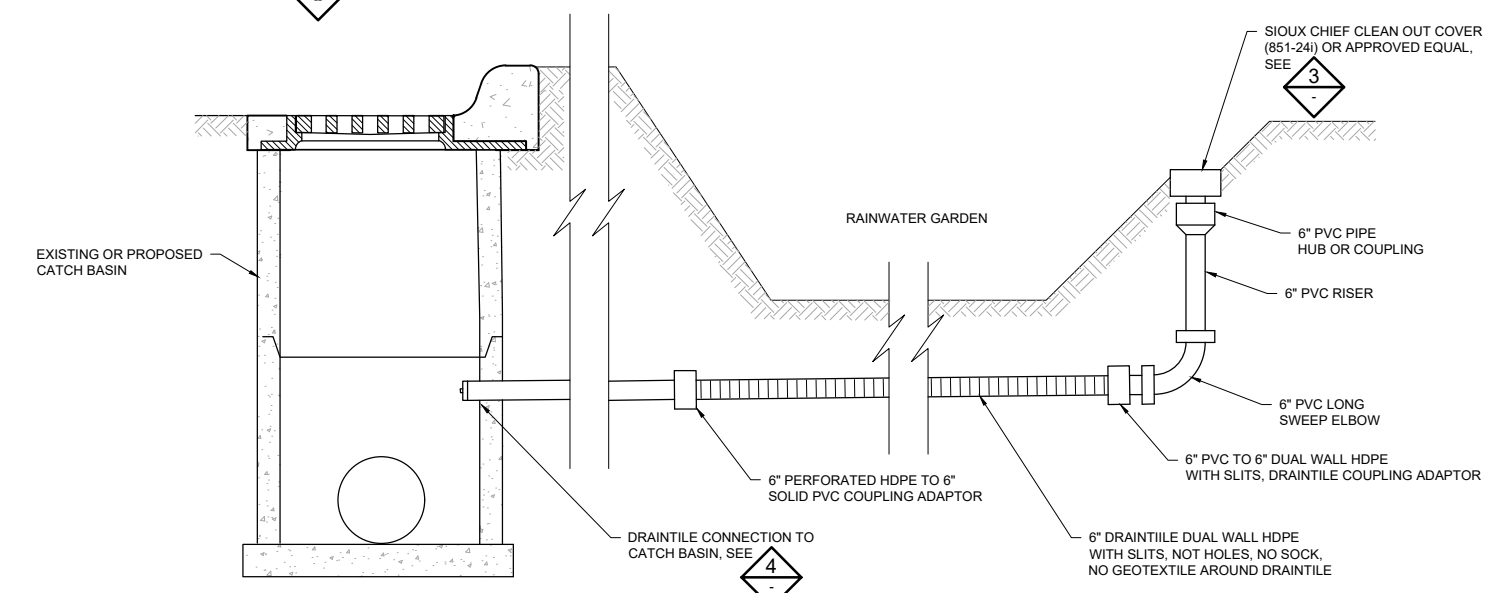
ISSUED FOR BID



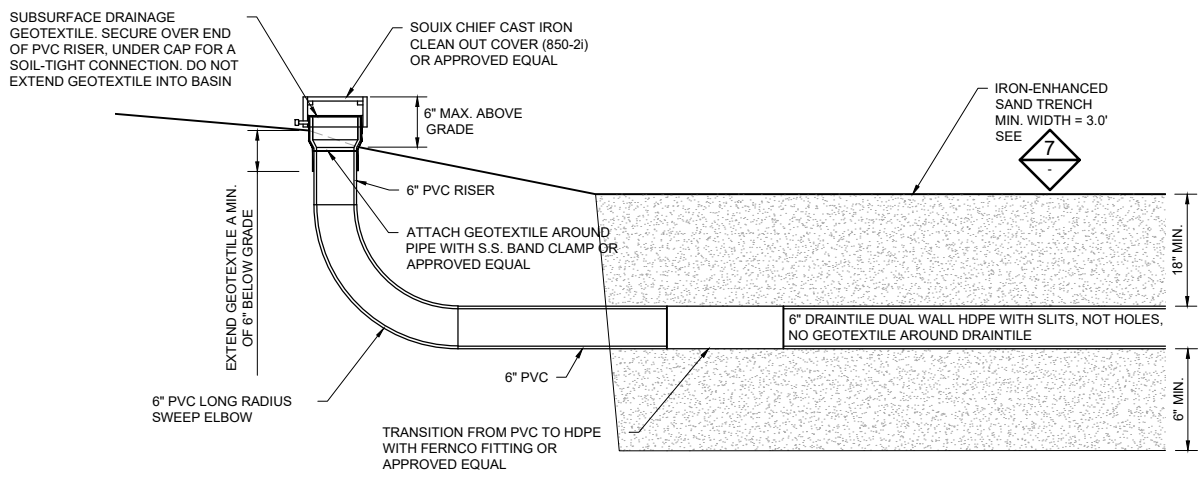
1 **DETAIL: TYPICAL RAIN GARDEN**



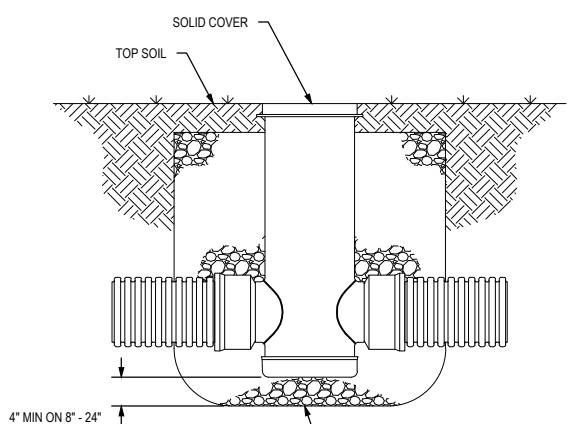
4 **DETAIL: DRAIN TILE CONNECTION**
NOT TO SCALE



2 **DETAIL: RAIN GARDEN DRAINTILE**



3 **DETAIL: DRAINTILE CLENOUT**



5 **DETAIL: 12\"/>**

NP-01				
T.O.C.	SIZE	ANGLE DEG (FROM OUTLET PIPE)	TYPE	INV. ELEV.
939.10				
STUB 1	6 INCH	0	PVC SCH. 40	934.00
STUB 2	6 INCH	130	PVC SCH. 40	934.70
STUB 3	6 INCH	218	PVC SCH. 40	934.00

NP-02				
T.O.C.	SIZE	ANGLE DEG (FROM OUTLET PIPE)	TYPE	INV. ELEV.
940.30				
STUB 1	6 INCH	0	PVC SCH. 40	934.50
STUB 2	6 INCH	202	PVC SCH. 40	934.50
STUB 3	6 INCH	272	PVC SCH. 40	934.50

NP-03				
T.O.C.	SIZE	ANGLE DEG (FROM OUTLET PIPE)	TYPE	INV. ELEV.
940.45				
STUB 1	6 INCH	0	PVC SCH. 40	934.50
STUB 2	6 INCH	272	PVC SCH. 40	934.50

- NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF 12"-DIA. NYLOPLAST STRUCTURES.

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

CADD USER: Katie J. Turpin-Nigel FILE: M:\DESIGN\2362132800_002362132800_NBPT_C5.0_DETAILS_RWG.DWG PLOT SCALE: 1:2 PLOT DATE: 11/22/2021 2:34 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: Leslie A. Dell'Angelo
 SIGNATURE: [Signature]
 DATE: 01/28/2021 LICENSE # 49094

CLIENT	1/25/20
BID	
CONSTRUCTION	01/26/21

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

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

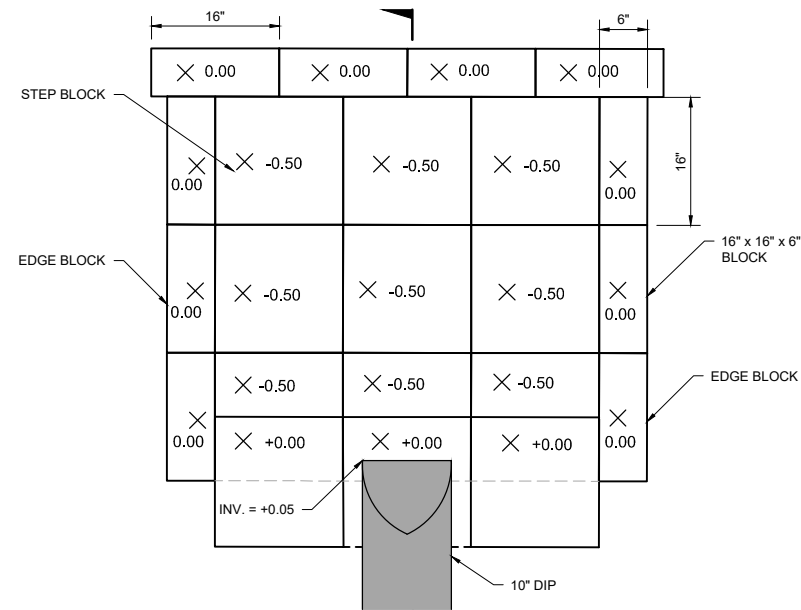
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Date	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD

STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL

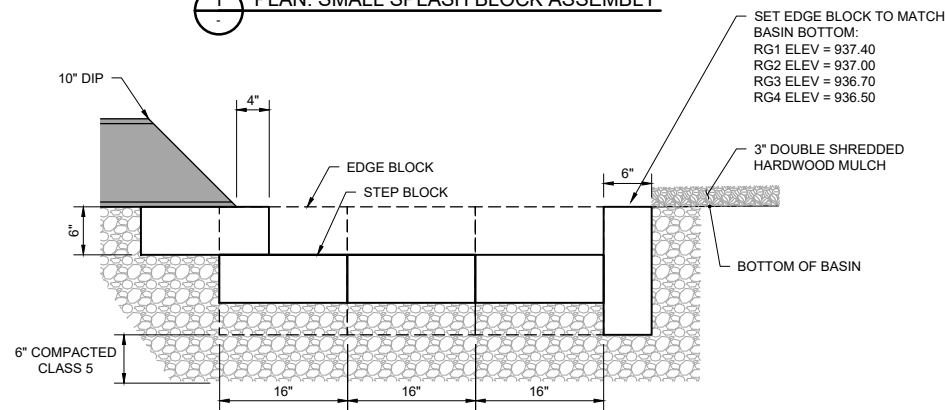
DETAILS - RAIN GARDEN
 TYP. RAIN GARDEN, DRAINTILE, & RETAINING WALL

BARR PROJECT No.	23621328.00
CLIENT PROJECT No.	
DWG. No.	C5.0
REV. No.	0

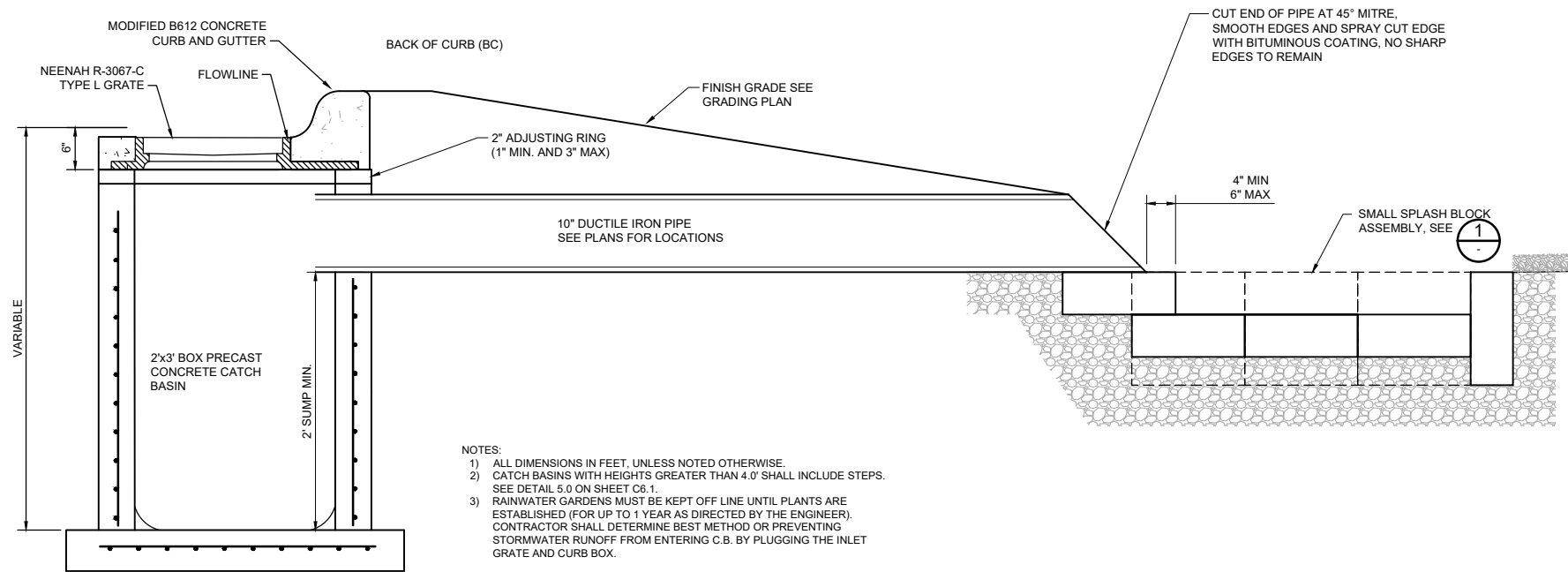
ISSUED FOR
 BID



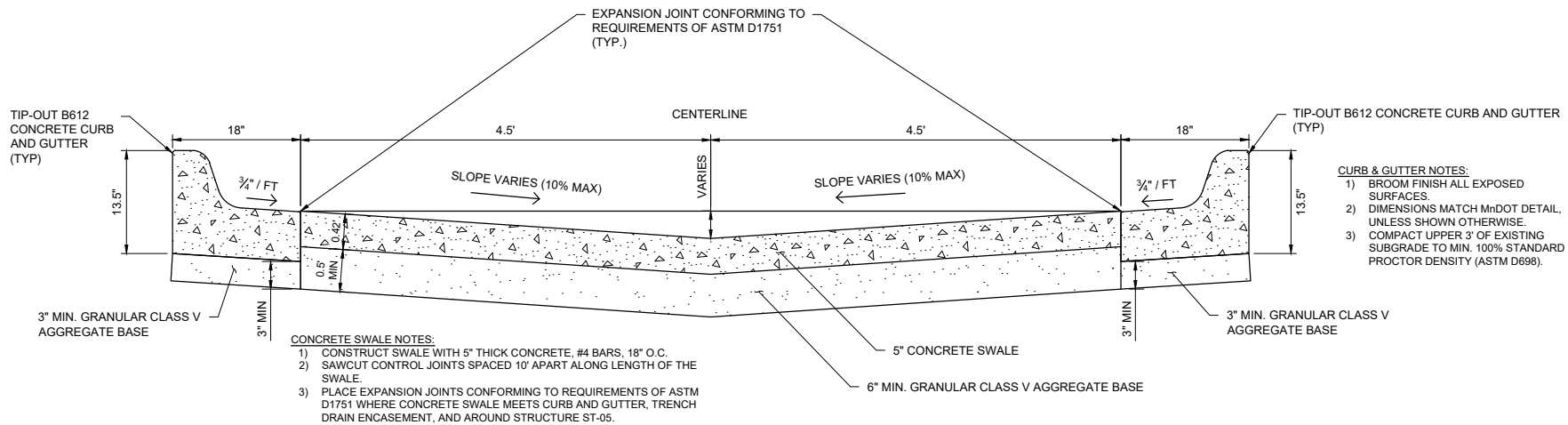
1 PLAN: SMALL SPLASH BLOCK ASSEMBLY



2 SECTION: SMALL SPLASH BLOCK ASSEMBLY



3 SECTION: RAINWATER GARDEN CATCH BASIN INLET



4 SECTION: CONCRETE SWALE W/ TIP-OUT B612 CURB AND GUTTER
NOT TO SCALE

CADD USER: Gareth W. Becker FILE: M:\DESIGN\2021\2021-002362132800_NSPT_C5_1_DETAILS_RWG.DWG PLOT SCALE: 1:2 PLOT DATE: 1/26/2021 12:08 PM
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: Leslie A. Dell'Angelo
 SIGNATURE: *[Signature]*
 DATE: 01/28/2021 LICENSE #: 49094

CLIENT	11/25/20					
BID				01/26/21		
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	0	1	2
DATE RELEASED						

BARR
 Project Office:
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 Ph: 1-800-632-2277
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 www.barr.com

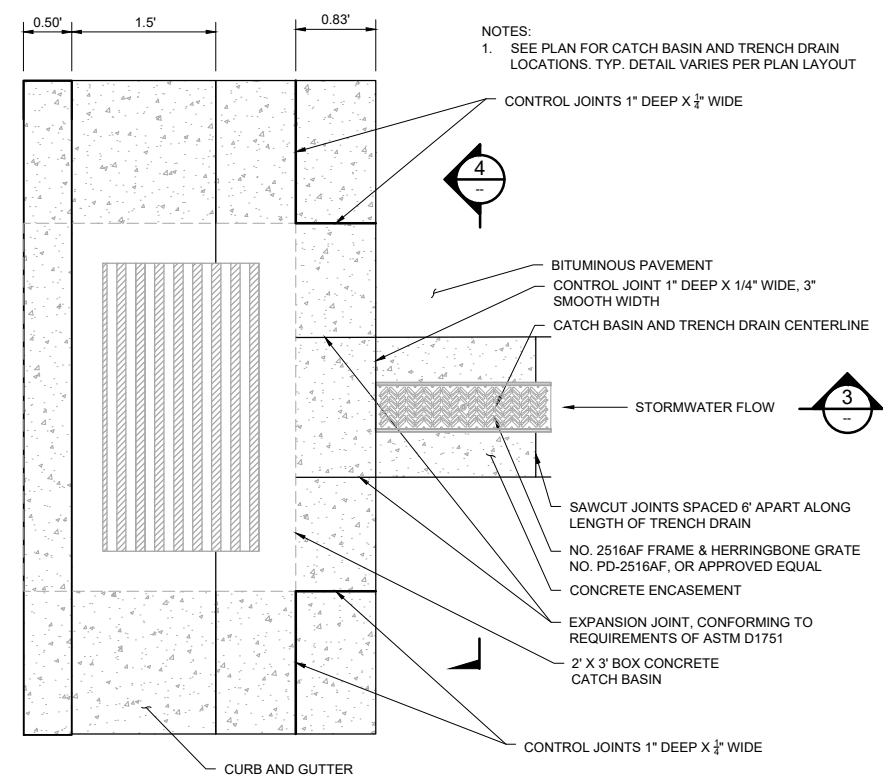
Scale	AS SHOWN
Date	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD



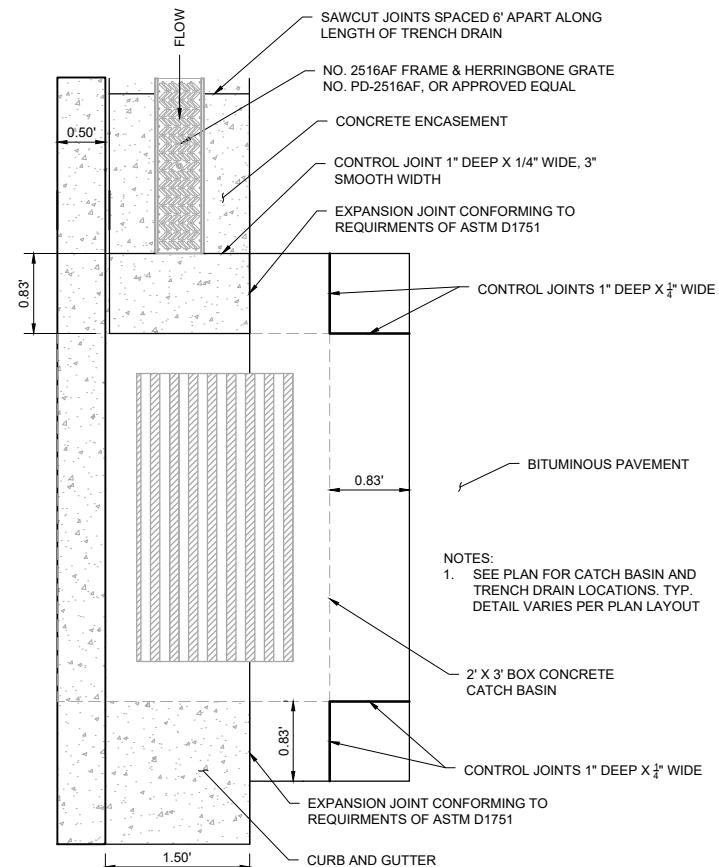
STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL
 RAINWATER GARDEN DETAILS
 SM. SPLASH BLOCK & CONC. SWALES

BARR PROJECT No.	23621328.00
CLIENT PROJECT No.	
DWG. No.	C5.1
REV. No.	0

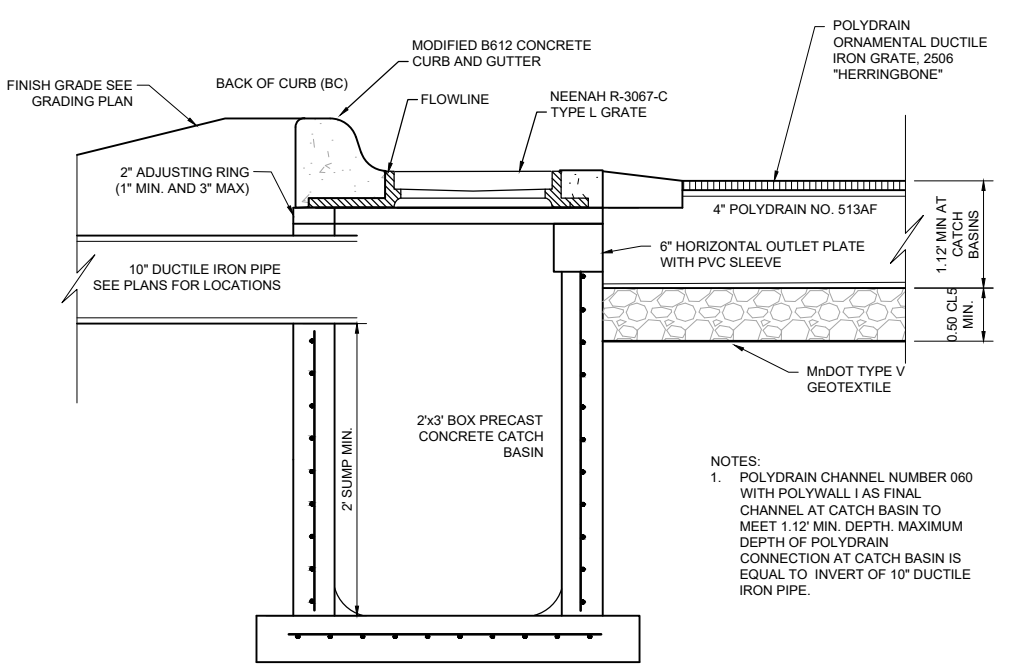
ISSUED FOR
BID



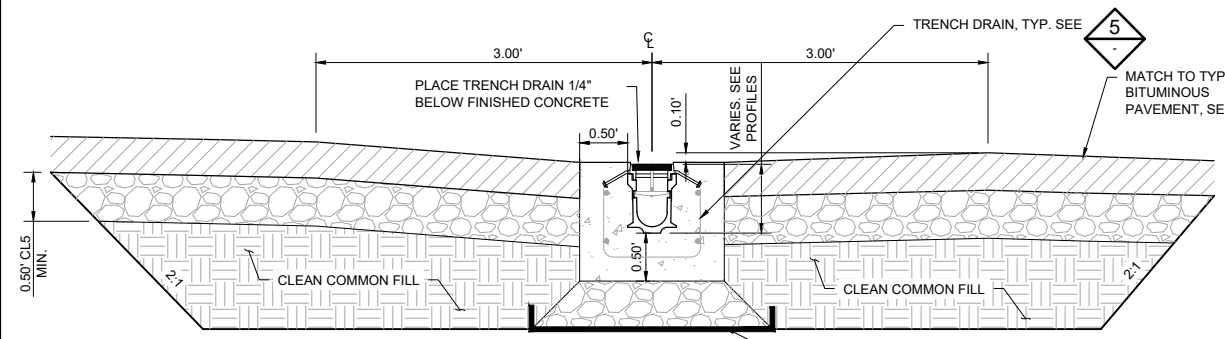
1 PLAN: TRENCH DRAIN CB CONNECTION PERPENDICULAR, TYP.
NOT TO SCALE



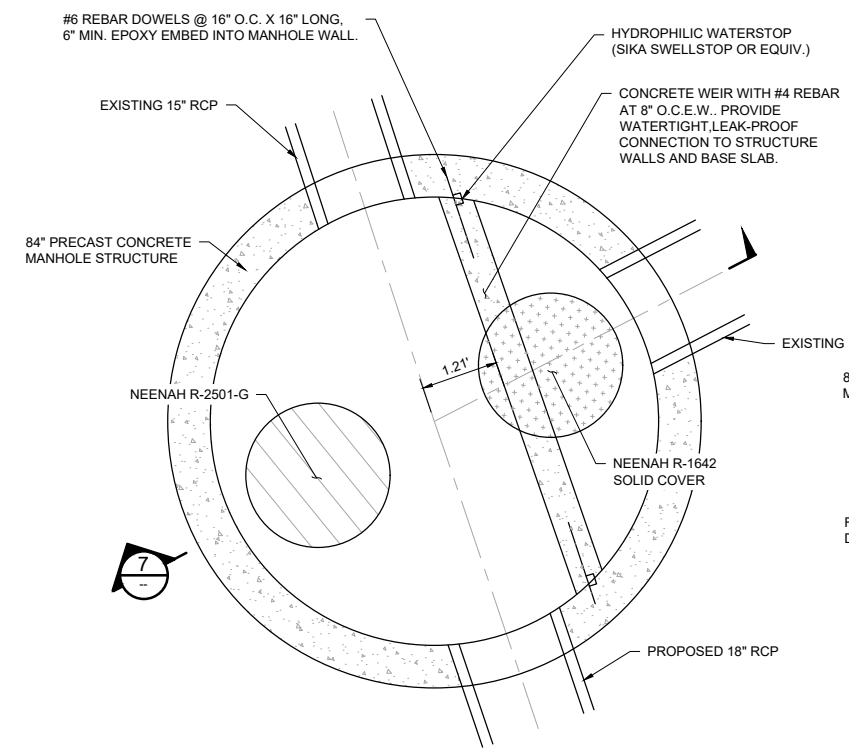
2 PLAN: TRENCH DRAIN CB CONNECTION PARALLEL, TYP.
NOT TO SCALE



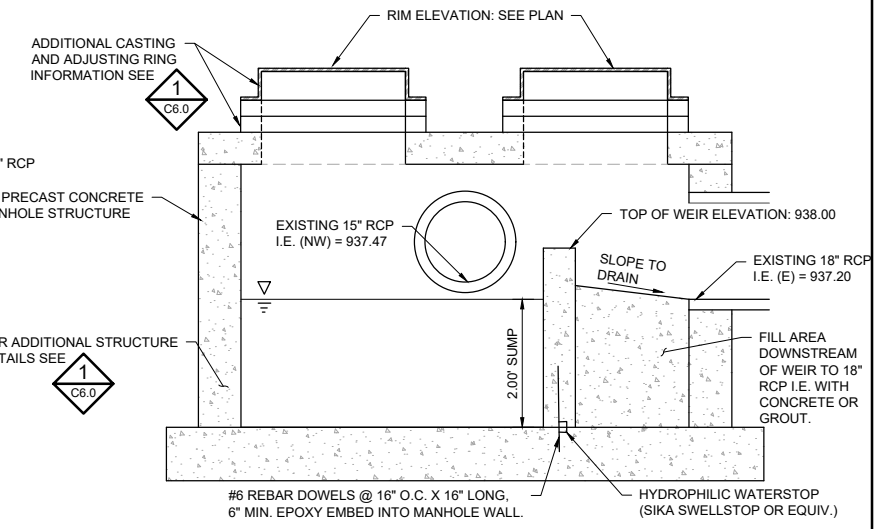
3 SECTION: TRENCH DRAIN AND RAIN GARDEN OUTLET PIPE
NOT TO SCALE



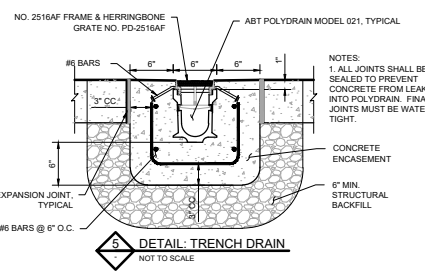
4 SECTION: TRENCH DRAIN AND BITUMINOUS
NOT TO SCALE



6 DETAIL: ST-01: 84\"/>



7 SECTION: ST-01: 84\"/>



5 DETAIL: TRENCH DRAIN
NOT TO SCALE

CADD USER: Katie J. Turpin-Nigel FILE: M:\DESIGN\23621328\002362132800_NBPT_C5.2_DETAILS_RWG.DWG PLOT SCALE: 1:2 PLOT DATE: 1/22/2021 1:28 PM
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: **Leslie A. Dell'Angelo**
 SIGNATURE: *Leslie A. Dell'Angelo*
 DATE: 01/28/2021 LICENSE # 49094

CLIENT	1/25/20	01/26/21				
BID						
CONSTRUCTION						

BARR Project Office:
 BARR ENGINEERING CO.
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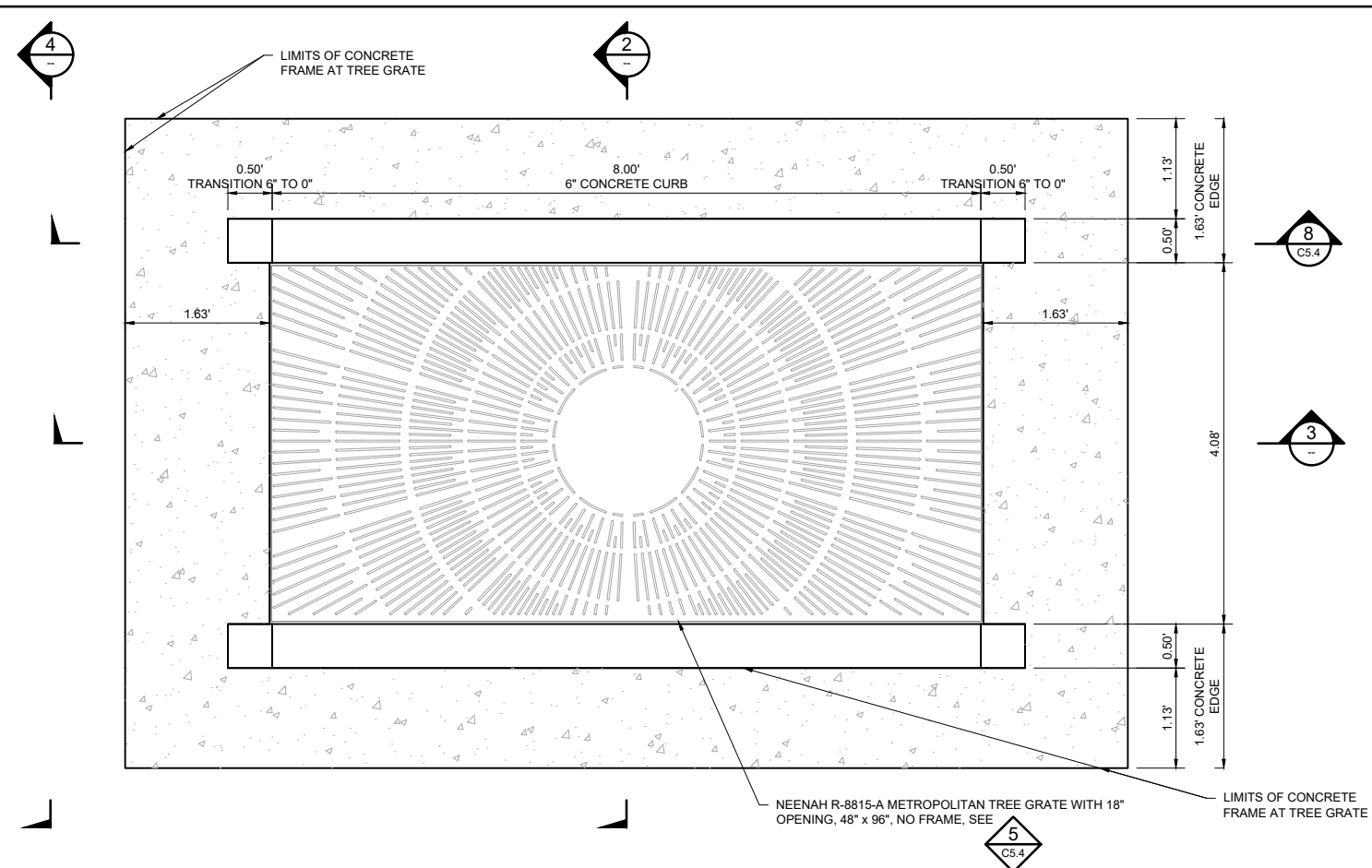
Scale	AS SHOWN
Date	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD


RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

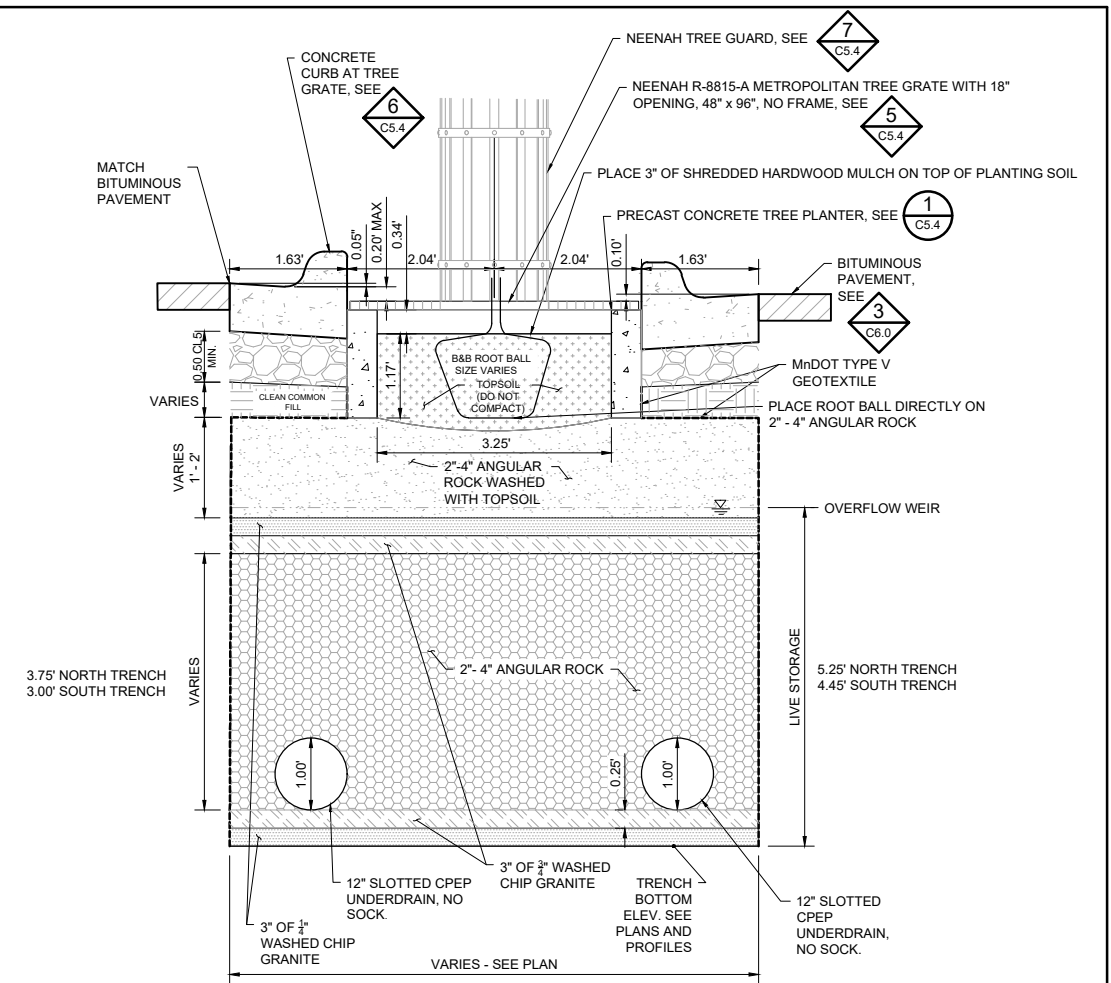
STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL
 DETAILS - RAIN GARDEN
 STORM STRUCTURES, TRENCH DRAIN

BARR PROJECT No.	23621328.00
CLIENT PROJECT No.	
DWG. No.	C5.2
REV. No.	0

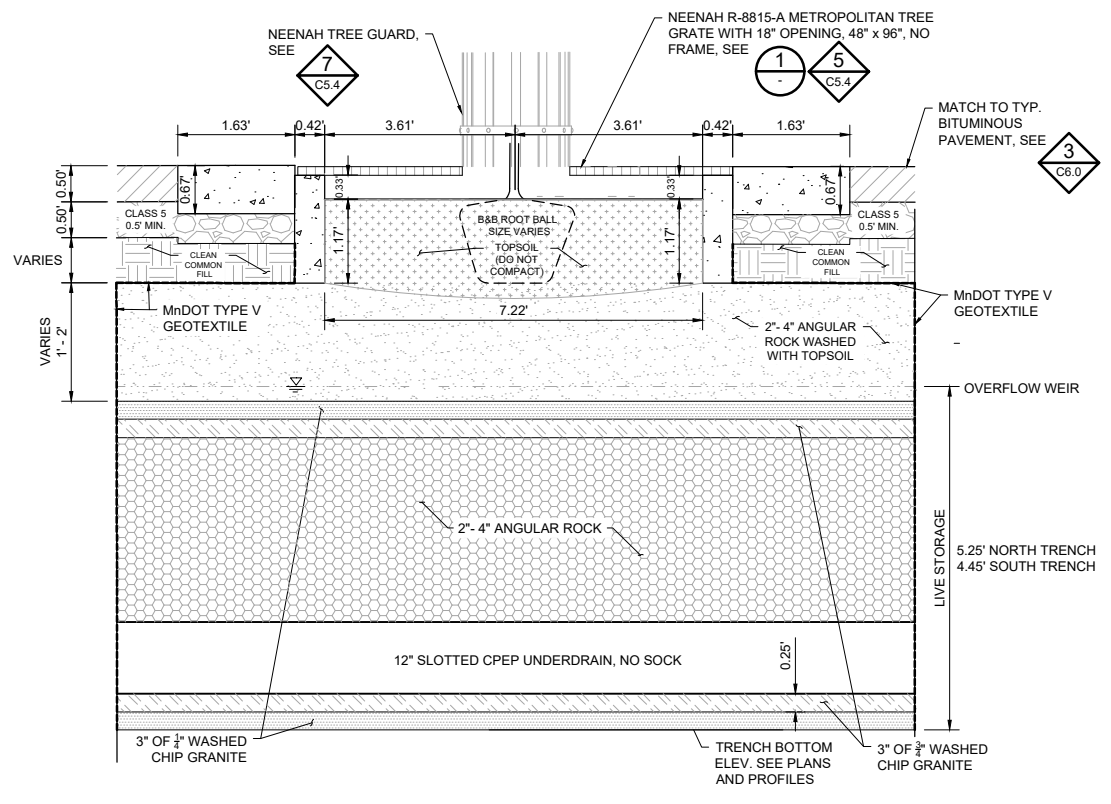
ISSUED FOR BID



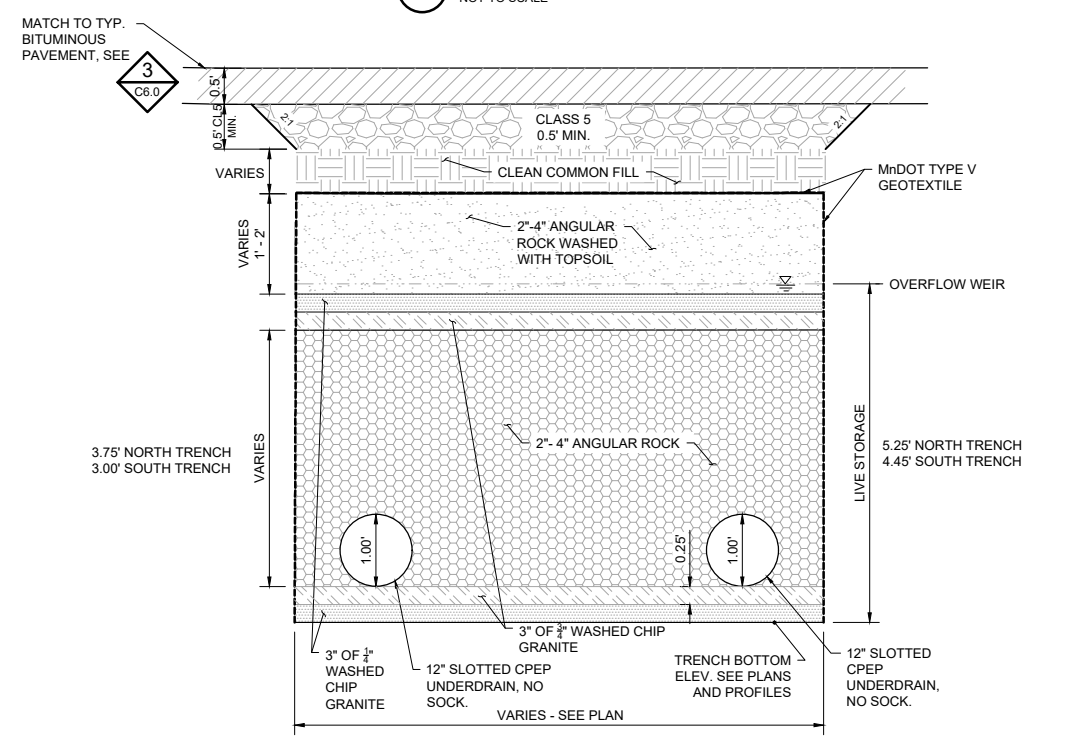
1 PLAN: CONCRETE FRAME AT TREE GRATE, TYP.
 NOT TO SCALE



2 SECTION: TREE TRENCH
 NOT TO SCALE



3 SECTION: TREE TRENCH AT CATCH BASIN AND TRENCH DRAIN
 NOT TO SCALE



4 SECTION: TRENCH DRAIN AND TREE TRENCH
 NOT TO SCALE

ISSUED FOR BID

CADD USER: Dallen, J. Webber FILE: M:\DESIGN\23621328\002362132800_NSPT_C5.3_DETAILS_TREE TRENCH.DWG PLOT SCALE: 1:2 PLOT DATE: 1/25/2021 9:15 AM
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 Plot: M:\Design\23621328\002362132800_NSPT_C5.2_Details_Tree Trench.dwg Plot at: 08/01/2020 15:29:01

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: Leslie A. DellAngelo
 SIGNATURE: [Signature]
 DATE: 01/29/21 LICENSE #: 49094

CLIENT	11/25/2020					
BID		01/29/21				
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	0	1	2
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) 932-2601 www.barr.com

Scale	AS SHOWN
Date	11/25/2020
Drawn	JPP/DJW3
Checked	LAD
Designed	BARR
Approved	LAD

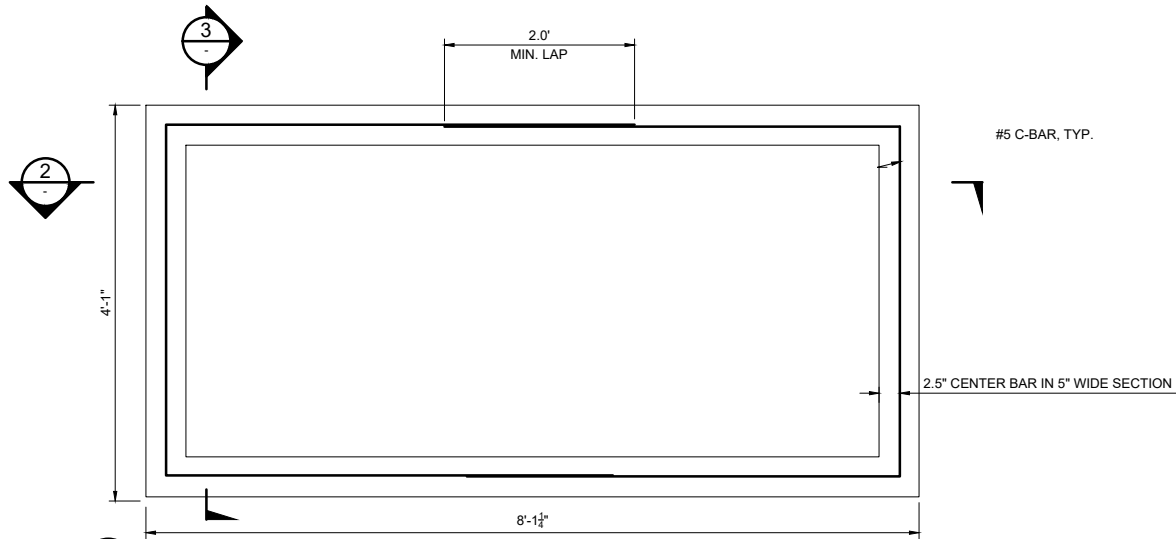
RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL
 DETAILS - TREE TRENCH
 TREE BOX, TREE TRENCH, & TREE DRAIN

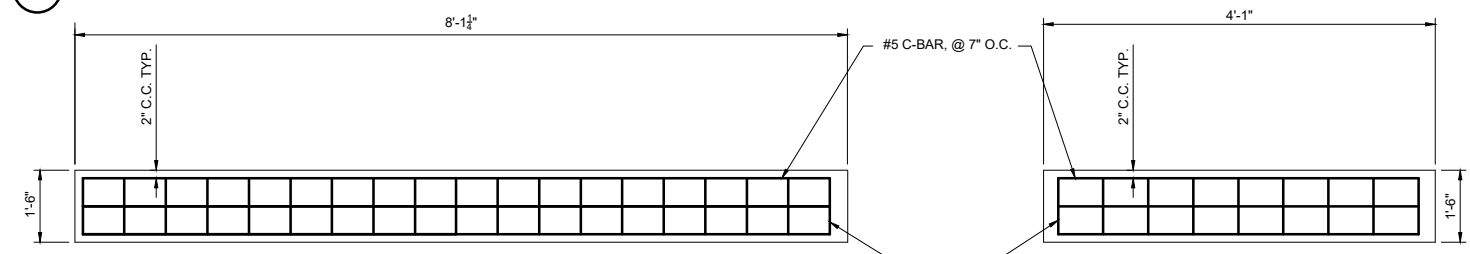
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CLIENT PROJECT No.	
DWG. No.	C5.3
REV. No.	0

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

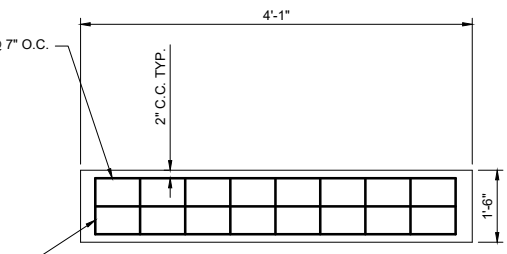
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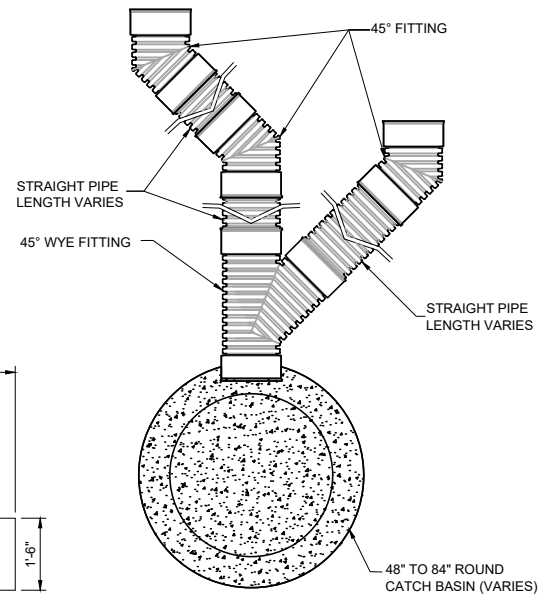
1 PLAN: PRECAST CONCRETE TREE PLANTER BOX



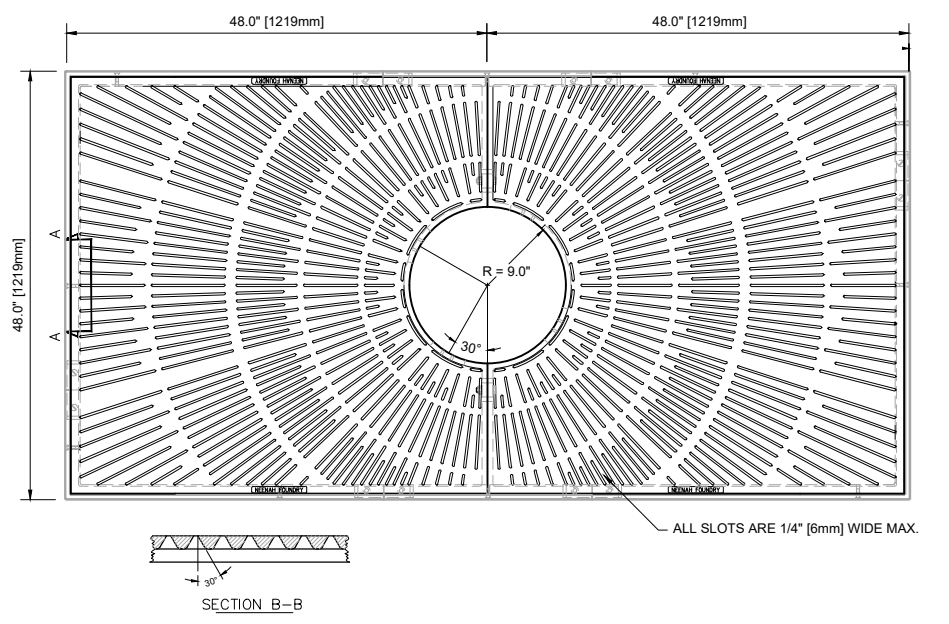
2 SECTION: BOX REBAR



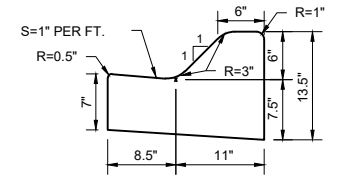
3 SECTION: BOX REBAR



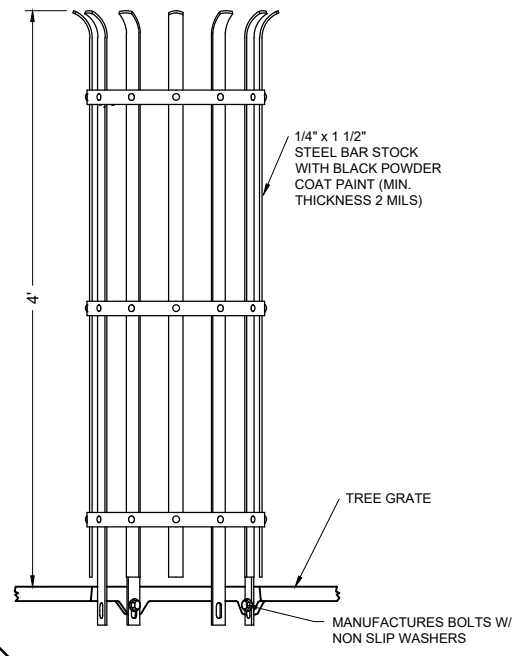
4 DETAIL: 12" FITTINGS FOR ROCK TRENCH
NOT TO SCALE



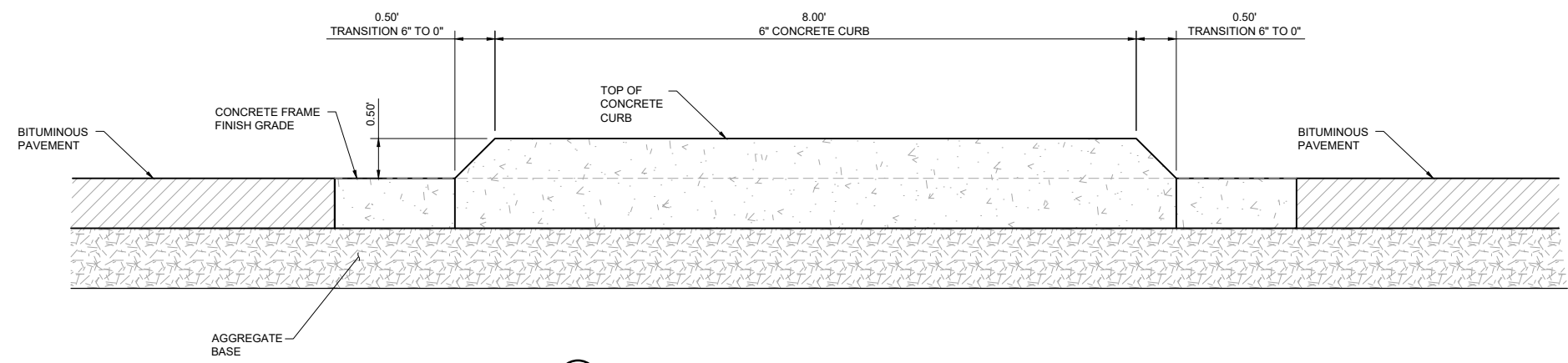
5 DETAIL: NEENAH TREE GRATE R-8815-A
NOT TO SCALE



6 DETAIL: CONCRETE CURB AT TREE GRATE
NOT TO SCALE



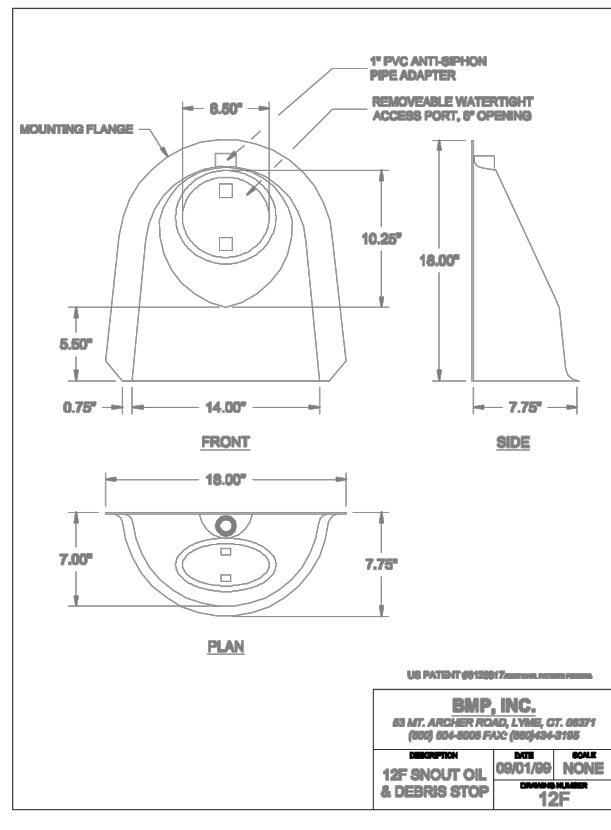
7 DETAIL: NEENAH TREE GUARD NF42648, TYPE C
NOT TO SCALE



8 SECTION: CONCRETE CURB WITH TRANSITION
NOT TO SCALE

ISSUED FOR
BID

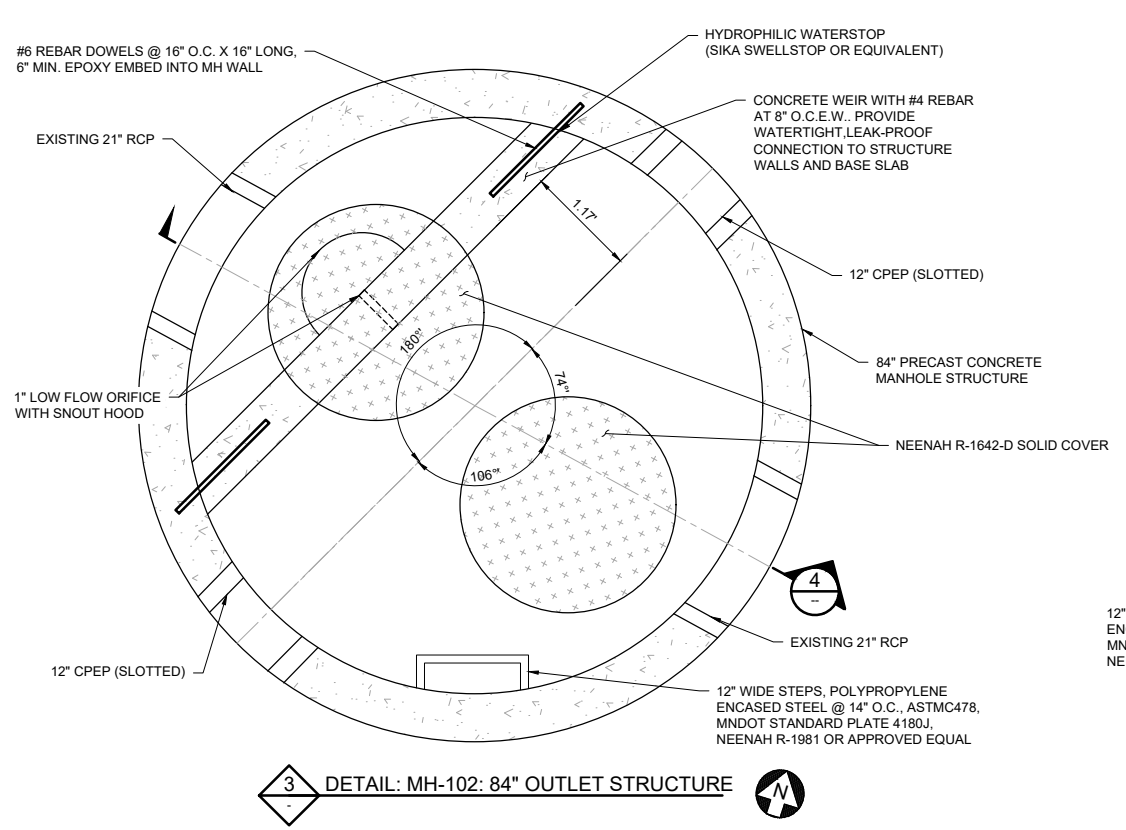
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: Leslie A. Dell'Angelo SIGNATURE: <i>[Signature]</i> DATE: 01/26/21 LICENSE #: 49094		CLIENT: 1/25/2021 BID: 01/26/21 CONSTRUCTION:		BARR Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: AS SHOWN Date: 11/25/2020 Drawn: JPP/DJW3 Checked: LAD Designed: BARR Approved: LAD		RAMSEY-WASHINGTON METRO WATERSHED DISTRICT		STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL DETAILS - TREE TRENCH TREE GUARD, TRENCH DRAIN		BARR PROJECT No. 23621328.00 CLIENT PROJECT No.		DWG. No. C5.4 REV. No. 0	
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	A	B	C	0	1	2	3			



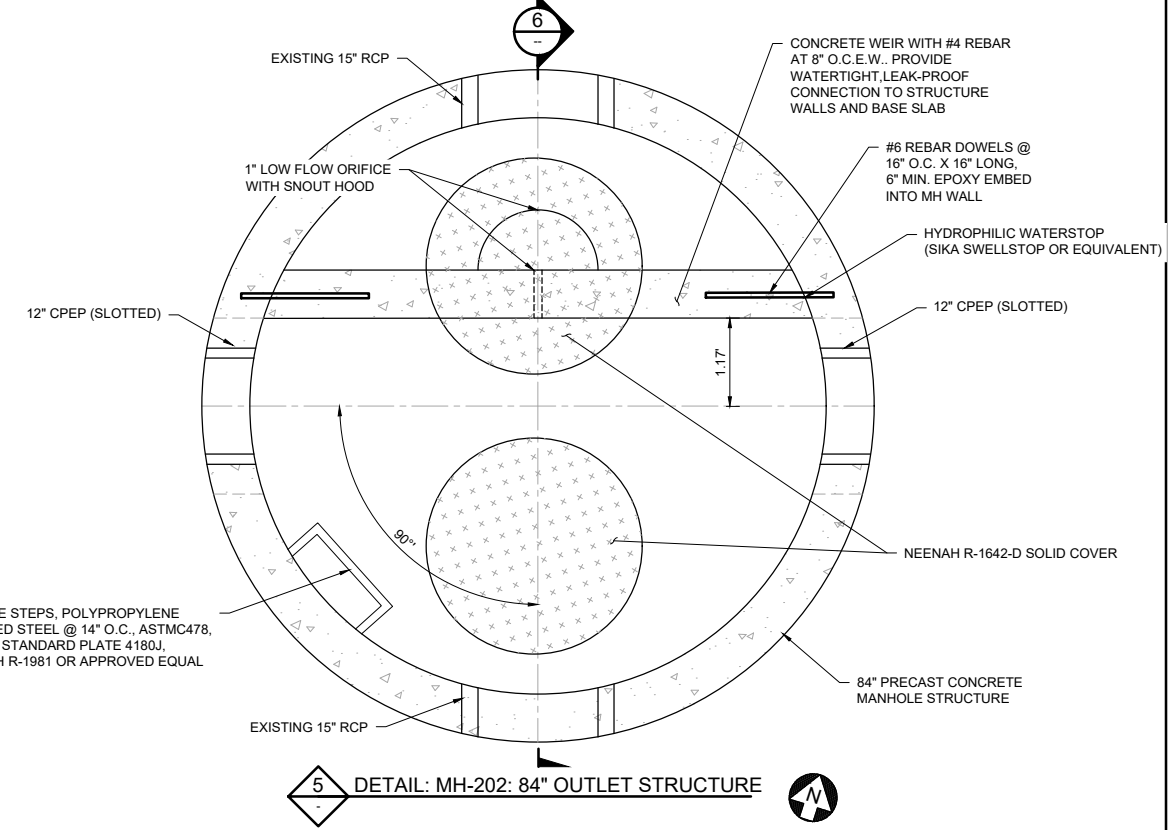
BMP, INC.
 88 MT. ARCHER ROAD, LYRIS, CT. 06371
 (860) 864-8008 FAX: (860) 864-8788
 WWW.BMPINC.COM

DESCRIPTION: 12F SNOOT OIL & DEBRIS STOP
 DATE: 09/01/18
 SCALE: NONE
 DRAWING NUMBER: 12F

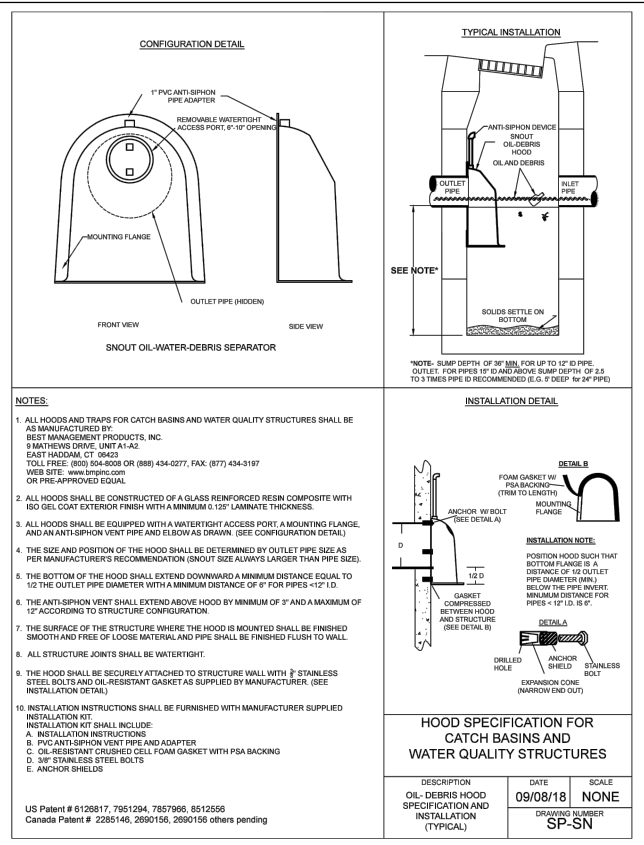
1 DETAIL: 12F SNOOT OIL & DEBRIS STOP
 NOT TO SCALE



3 DETAIL: MH-102: 84" OUTLET STRUCTURE



5 DETAIL: MH-202: 84" OUTLET STRUCTURE

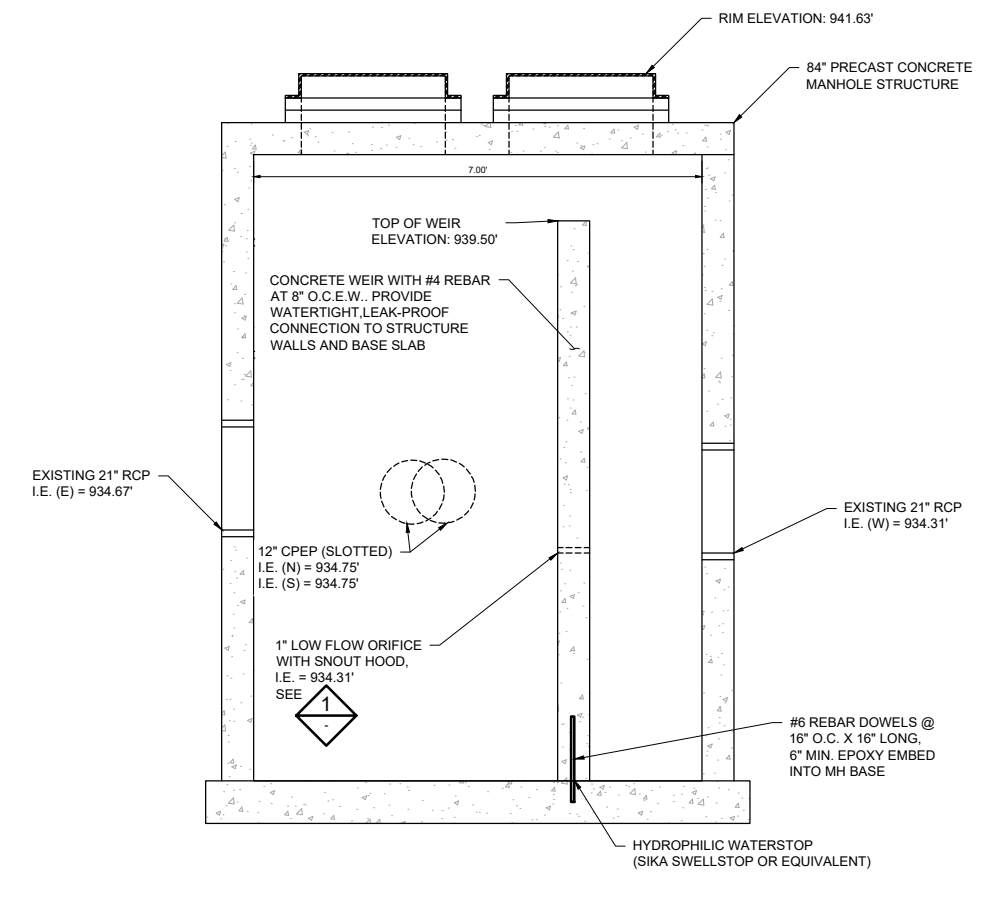


NOTES:

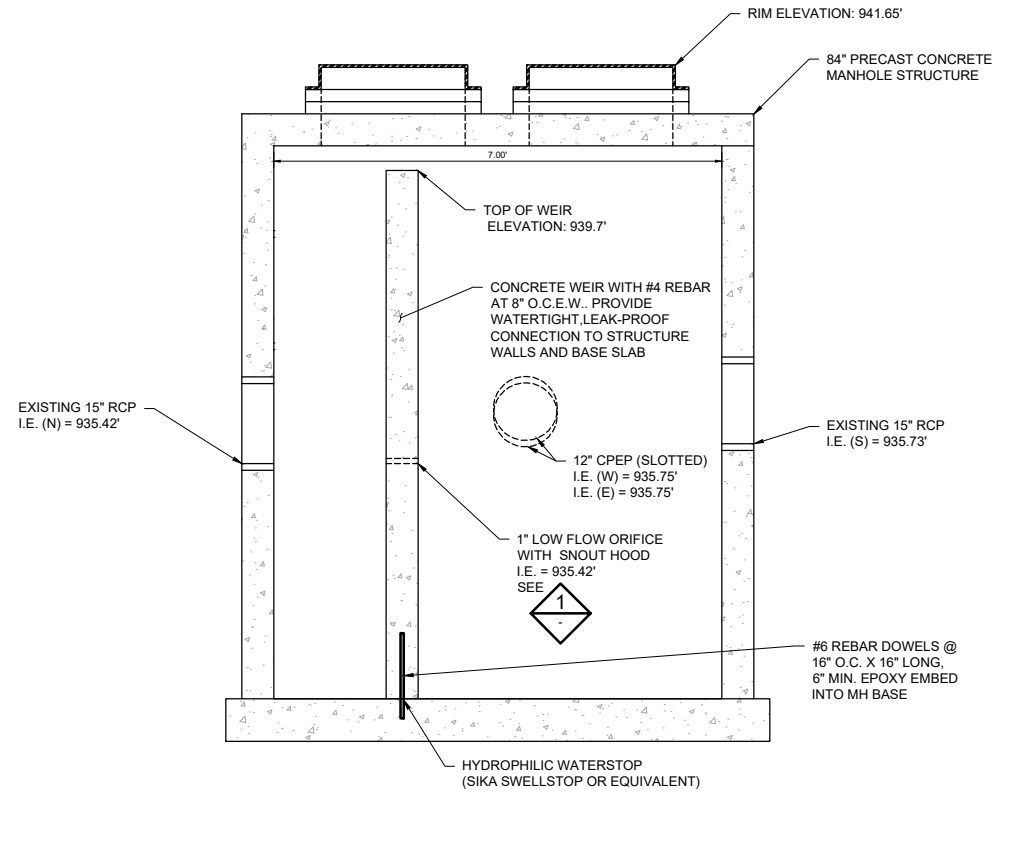
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC. 8 MATTHEW DRIVE, UNIT A1-A2, EAST HADAM, CT 06422. TOLL FREE: (800) 864-8008 OR (860) 434-2277, FAX: (877) 434-3197. WEB SITE: WWW.BMPINC.COM OR PRE-APPROVED EQUAL.
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 1/16" LAMINATE THICKNESS.
- ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL.)
- THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOOT SIZE ALWAYS LARGER THAN PIPE SIZE).
- THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
- THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
- THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
- ALL STRUCTURE JOINTS SHALL BE WATERTIGHT.
- THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 2" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL.)
- INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
 A. INSTALLATION INSTRUCTIONS
 B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
 C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
 D. 3/16" STAINLESS STEEL BOLTS
 E. ANCHOR SHIELDS

US Patent # 9,128,817, 7,951,294, 7,857,966, 8,512,556
 Canada Patent # 2,285,148, 2,690,158, 2,690,159 others pending

2 DETAIL: OIL-DEBRIS HOOD SPEC AND INSTALLATION
 NOT TO SCALE



4 SECTION: MH-102: 84" OUTLET STRUCTURE
 SCALE IN INCHES: 0, 18, 36
 NOTE: FOR ADDITIONAL STRUCTURE INFORMATION SEE C6.0

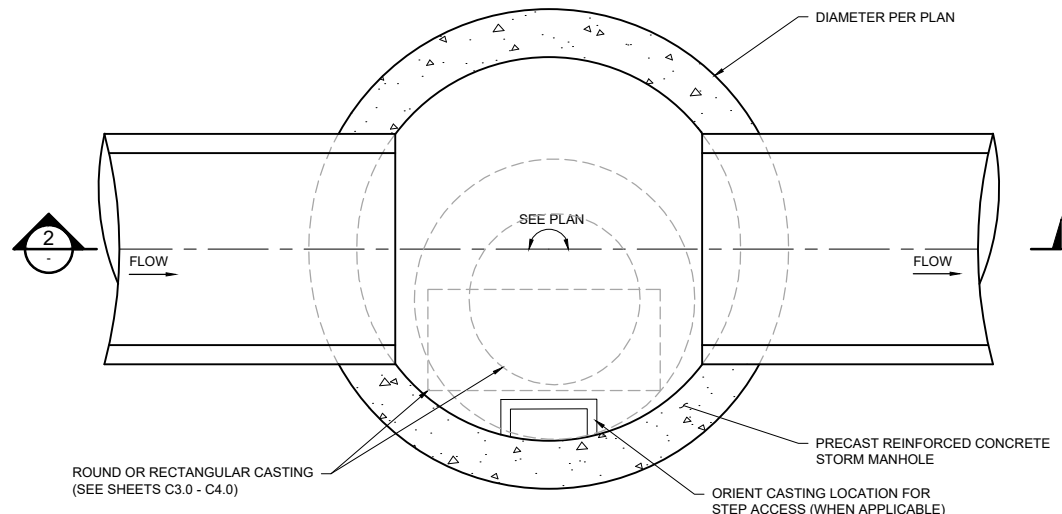


6 SECTION: MH-202: 84" OUTLET STRUCTURE
 SCALE IN INCHES: 0, 18, 36
 NOTE: FOR ADDITIONAL STRUCTURE INFORMATION SEE C6.0

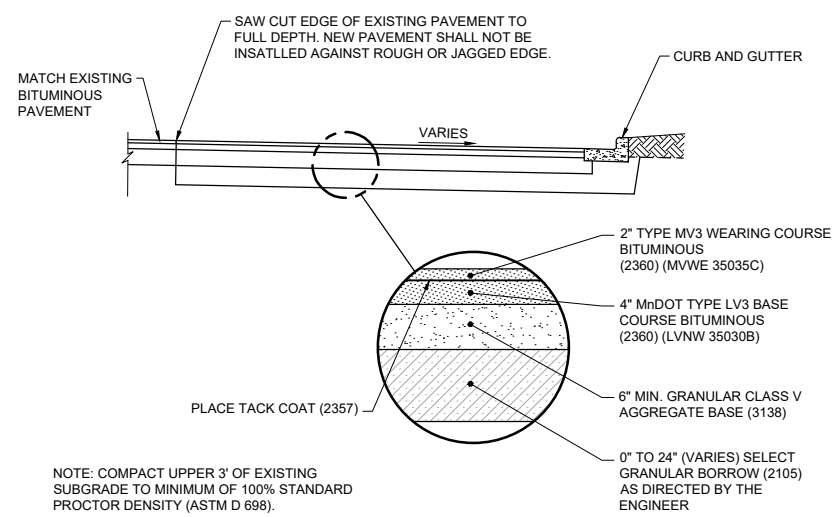
ISSUED FOR BID

CADD USER: Gireth W. Becker FILE: M:\DESIGN\2020\2020\2020\2020_NSP_T_C5.5_DETAILS_TREE TRENCH DWG PLOT SCALE: 1:2 PLOT DATE: 1/26/2021 1:46 PM
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 USER: M:\Users\Gireth W. Becker\Documents\2020\2020_NSP_T_C5.5_Details_Tree Trench.dwg Plot: 1 09/01/2020 15:38:23

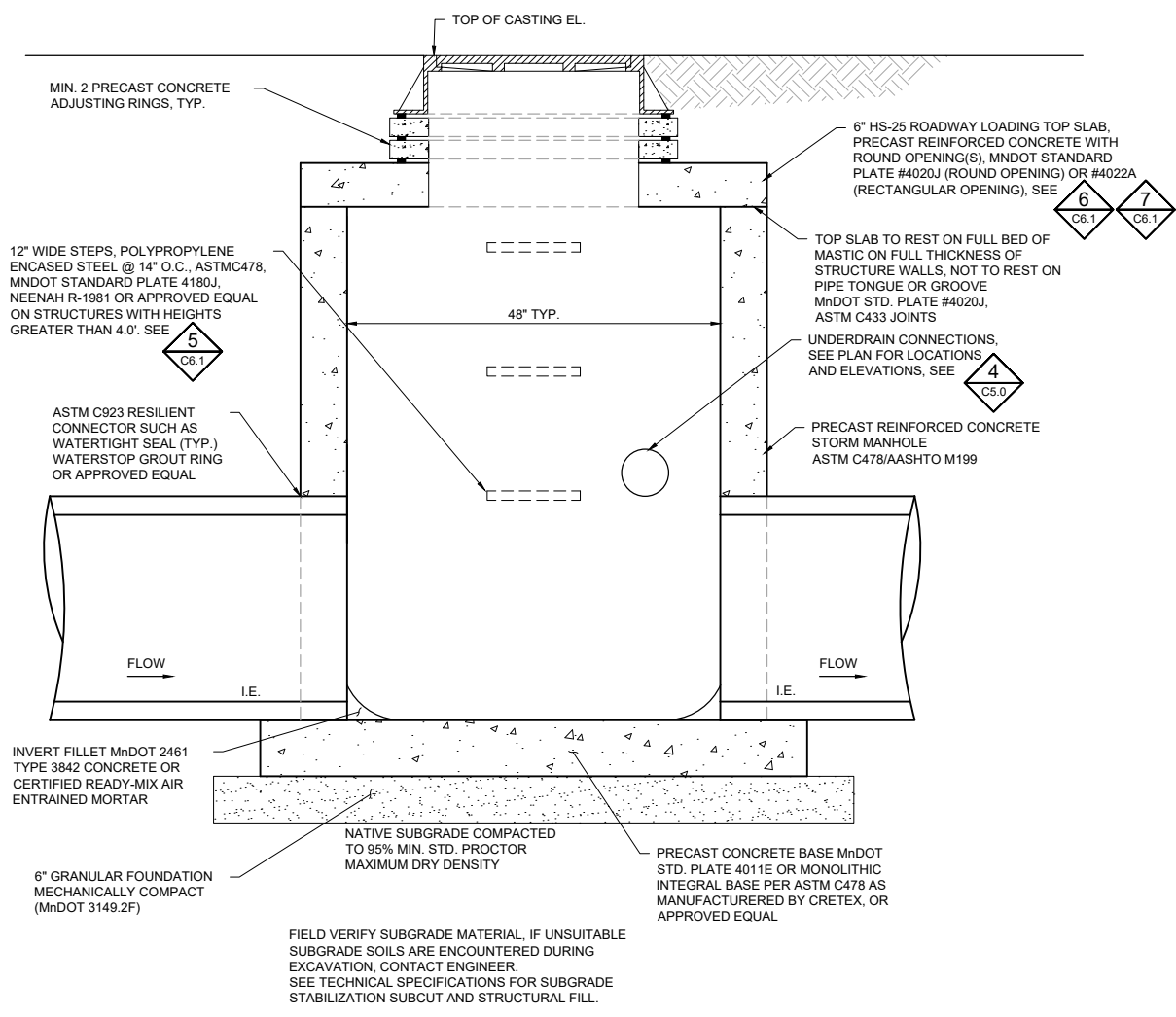
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: Leslie A. Dell'Angelo SIGNATURE: [Signature] DATE: 01/26/21 LICENSE # 49094				CLIENT: 1/25/20 BID: 01/26/21 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: 11/25/2020 Drawn: JPP/DJW3 Checked: LAD Designed: BARR Approved: LAD				STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL DETAILS - TREE TRENCH SNOOT HOOD & DIVERSION STRUCTURES				BARR PROJECT No. 23621328.00 CLIENT PROJECT No. DWG. No. C5.5 REV. No. 0			
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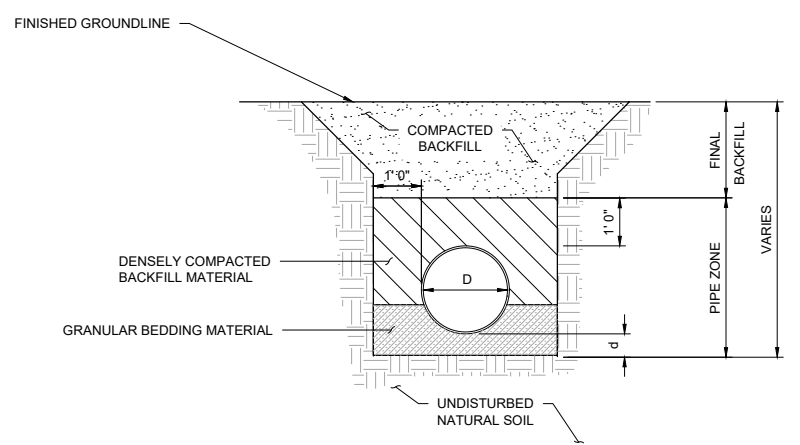
1 DETAIL: STORM MANHOLE TOP VIEW (TYP.)
NOT TO SCALE



3 DETAIL: TYPICAL BITUMINOUS PAVEMENT
NOT TO SCALE



2 SECTION: STORM MANHOLE SIDE VIEW (TYP.)
NOT TO SCALE



4 DETAIL: RCP AND PVC STORM SEWER TRENCH
NOT TO SCALE

DEPTH OF BEDDING BELOW PIPE	
D	d (MIN.)
27" & LESS	3"
30" to 60"	4"
66" & LARGER	6"

CADD USER: Kellie J. Turpin-Nagel FILE: M:\DESIGN\2021\1328\00\STANDARD\DETAILS.DWG PLOT SCALE: 1:2 PLOT DATE: 11/22/2021 1:29 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: Leslie A. Dell'Angelo

SIGNATURE: *Leslie A. Dell'Angelo*

DATE: 01/26/2021 LICENSE #: 49094

CLIENT	11/25/20	01/26/21						
BID								
CONSTRUCTION								
RELEASED TO/FOR	A	B	C	0	1	2	3	
DATE RELEASED								

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

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

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	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD

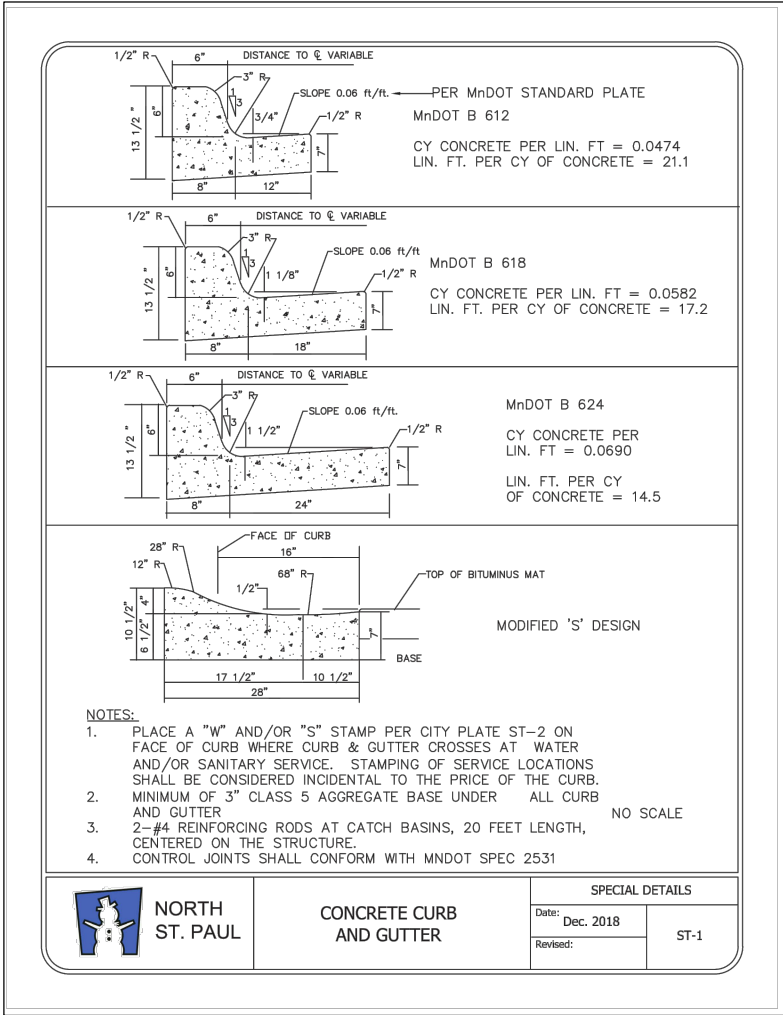


STORMWATER IMPROVEMENTS
TARGET - NORTH ST. PAUL

DETAILS
STANDARD DETAILS

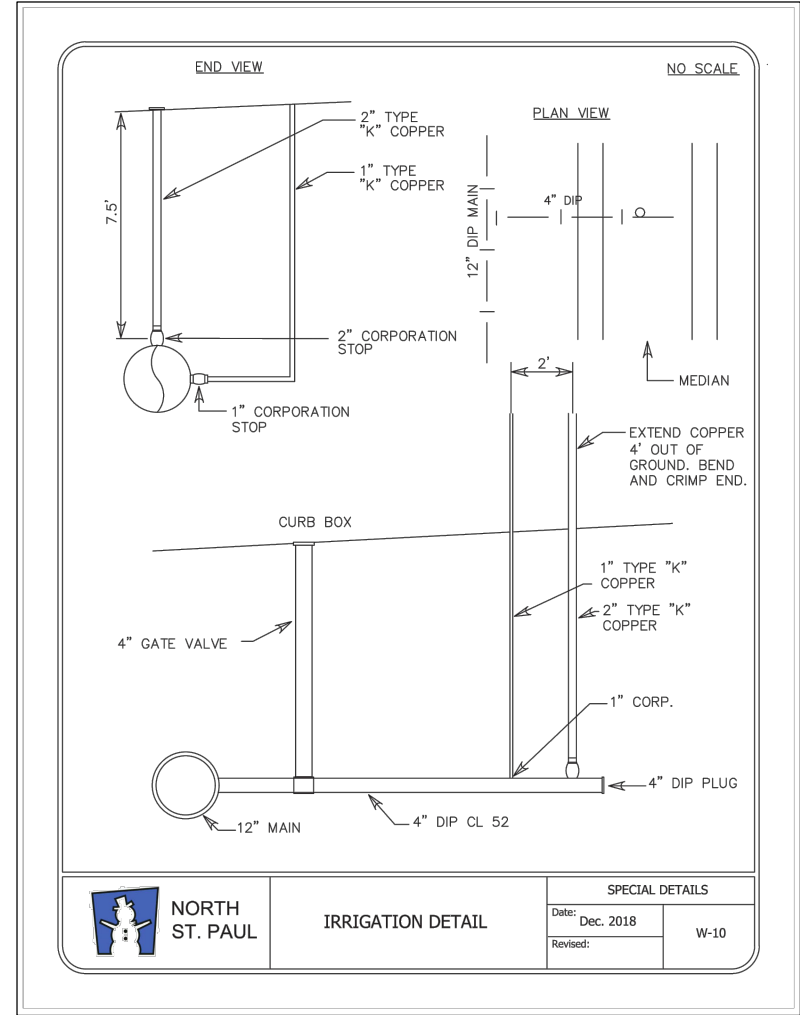
BARR PROJECT No. 23/62-1328.00	
CLIENT PROJECT No.	
DWG. No. C6.0	REV. No. 0

ISSUED FOR
BID

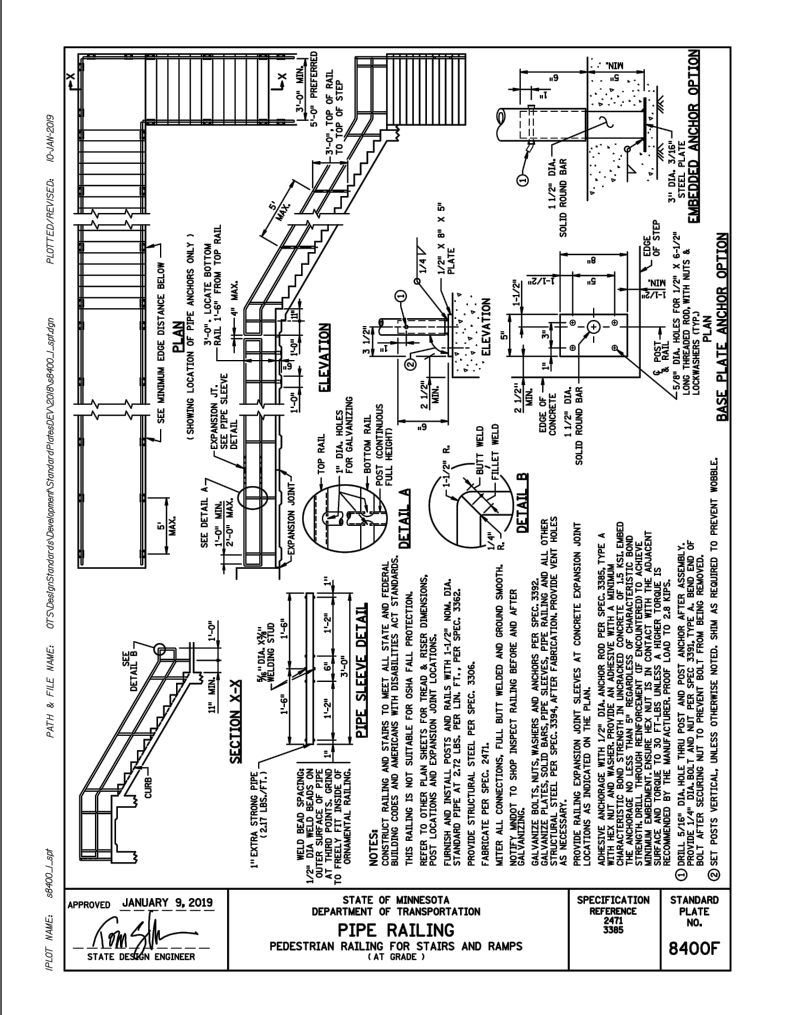


- NOTES:**
- PLACE A "W" AND/OR "S" STAMP PER CITY PLATE ST-2 ON FACE OF CURB WHERE CURB & GUTTER CROSSES AT WATER AND/OR SANITARY SERVICE. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO THE PRICE OF THE CURB AND GUTTER.
 - MINIMUM OF 3" CLASS 5 AGGREGATE BASE UNDER ALL CURB AND GUTTER.
 - 2-#4 REINFORCING RODS AT CATCH BASINS, 20 FEET LENGTH, CENTERED ON THE STRUCTURE.
 - CONTROL JOINTS SHALL CONFORM WITH MNDOT SPEC 2531.

NORTH ST. PAUL CONCRETE CURB AND GUTTER	SPECIAL DETAILS	
	Date: Dec. 2018	ST-1



NORTH ST. PAUL IRRIGATION DETAIL	SPECIAL DETAILS	
	Date: Dec. 2018	W-10

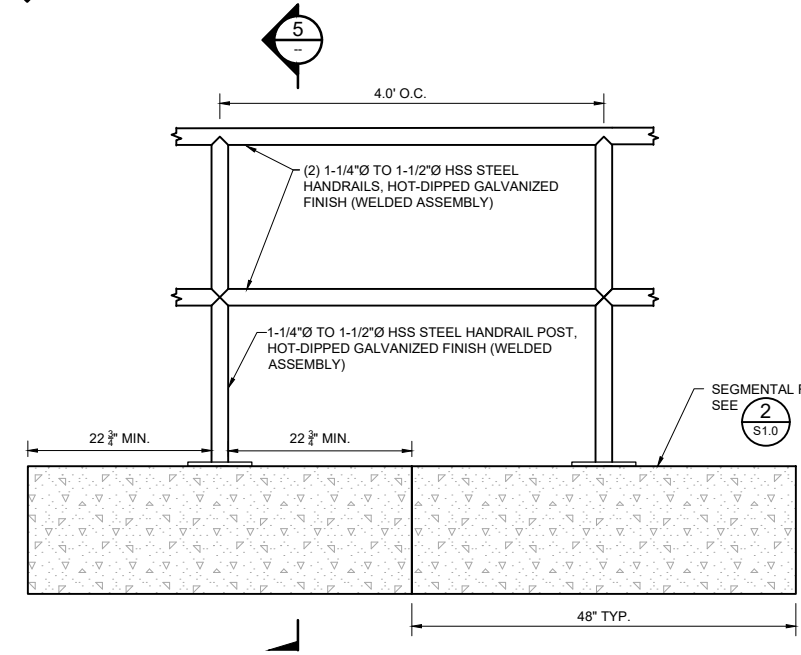


NORTH ST. PAUL PIPE RAILING PEDESTRIAN RAILING FOR STAIRS AND RAMPS (AT GRADE)	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE 2471 388	STANDARD PLATE NO. 8400F
	APPROVED JANUARY 9, 2019 <i>[Signature]</i> STATE DESIGN ENGINEER		

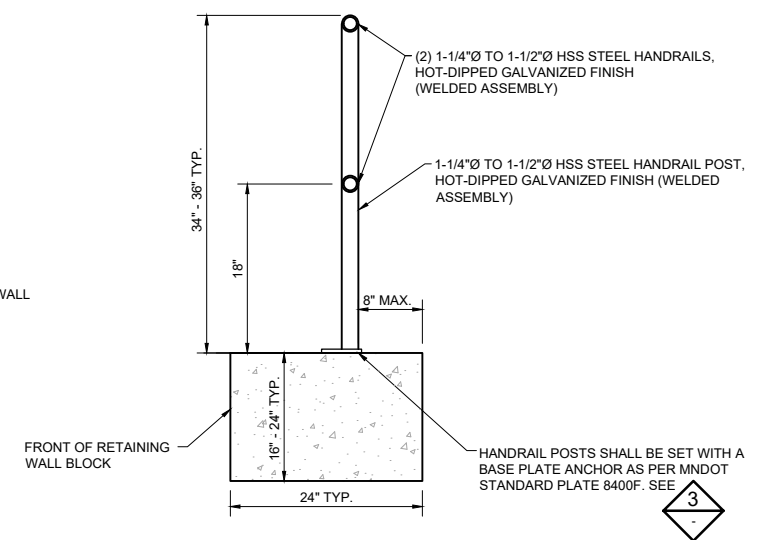
1 NORTH ST. PAUL STANDARD PLATE: ST-1

2 NORTH ST. PAUL STANDARD PLATE: W-10

3 MNDOT STANDARD PLATE 8400F



4 DETAIL: METAL HANDRAIL, SUPPORT POSTS
NOT TO SCALE



5 CROSS SECTION: METAL HANDRAIL
NOT TO SCALE

- NOTES:**
- HANDRAIL AND POST ASSEMBLY SHALL BE WELDED AND IN ACCORDANCE WITH THE LOADING AND MATERIAL REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) 1607.7.
 - POST SPACING SHALL BE 4 FEET O.C. OR AS RECOMMENDED BY MANUFACTURER.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF HANDRAIL AND POST ASSEMBLY DESIGN FOR APPROVAL BY ENGINEER.

ISSUED FOR BID

CADD USER: Kelle J. Turpin-Negel FILE: M:\DESIGN\23621328.00\2362132800_NSPT_C01_STANDARD PLATES.DWG PLOT SCALE: 1:2 PLOT DATE: 1/22/2021 1:30 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: Leslie A. Dell'Angelo SIGNATURE: <i>[Signature]</i> DATE: 01/28/2021 LICENSE # 49094		CLIENT: 1/25/20 BID: 01/26/21 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: 11/25/2020 Drawn: KJN2 Checked: LAD Designed: BARR Approved: LAD	RAMSEY-WASHINGTON METRO WATERSHED DISTRICT	STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL STANDARD DETAILS - CITY OF NORTH SAINT PAUL STANDARD PLATES & METAL HANDRAIL	BARR PROJECT No. 23/62-1328.00 CLIENT PROJECT No. DWG. No. C6.1 REV. No. 0
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION		

CADD USER: Katie J. Turpin-Nigel FILE: M:\DESIGN\236213280_002362132800_NSPT_SW1_0_EROSION_SEDCONTROL_PLAN.DWG PLOT SCALE: 1:2 PLOT DATE: 1/22/2021 2:25 PM
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TARGET
 2199 HWY 36 BLVD E
 NORTH ST. PAUL, MN 55109

EXISTING CONDITIONS LEGEND

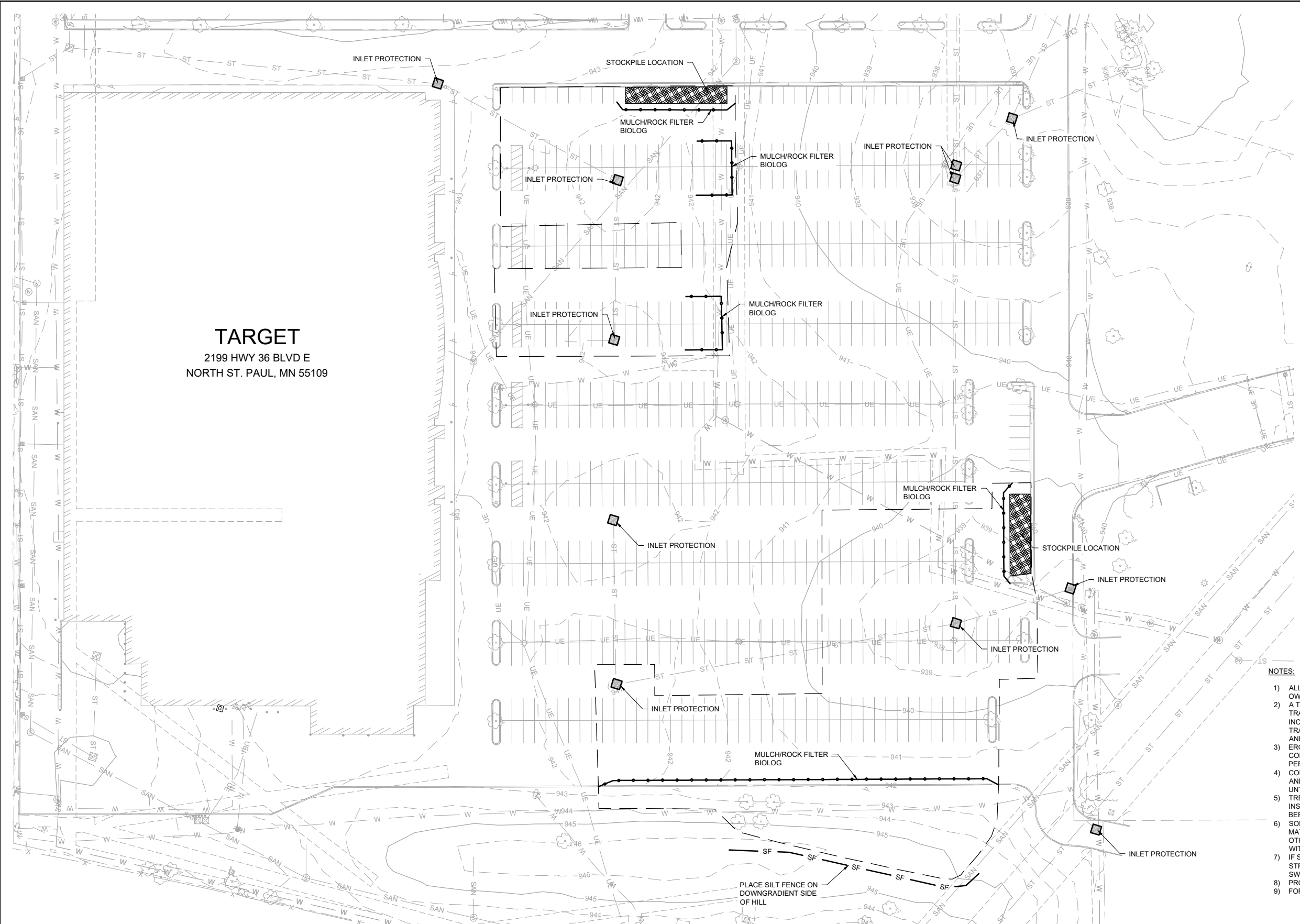
- 890 — 5 FT CONTOUR
- 889 — 1 FT CONTOUR
- - - - - PROPERTY LINE
- - - - - EASEMENT LINE
- ST — STORM SEWER
- SAN — SANITARY SEWER
- G — GAS LINE
- OE — OVERHEAD UTILITY
- UE — UNDERGROUND ELECTRIC
- W — WATER MAIN
- X — FENCELINE
- — CURB
- ⊗ STORM SEWER MANHOLE
- ⊗ STORM SEWER CATCH BASIN
- ⊗ SANITARY SEWER MANHOLE
- ⊕ FIRE HYDRANT
- ⊗ POTABLE WATER VALVE
- ⊗ IRRIGATION SPRINKLER
- ⊗ SIGN
- ⊗ LIGHT POLE
- ⊗ BOLLARDS
- ⊗ DECIDUOUS TREE - DIAMETER
- ⊗ CONIFEROUS TREE - DIAMETER
- ⊗ SOIL BORING

EROSION CONTROL LEGEND

- — — — — CONSTRUCTION LIMITS
- SF — SILT FENCE, SEE 1 SW2.0
- — — — — MULCH/ROCK FILTER BIOLOG, SEE 4 SW2.0
- INLET PROTECTION, SEE 5 SW2.0 6 SW2.0
- ▨ STOCKPILE AREA

NOTES:

- 1) ALL CONSTRUCTION ACCESS, PHASING, AND STAGING TO BE COORDINATED WITH OWNER AND TARGET.
- 2) A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS. ALL TRAFFIC CONTROL SIGNS AND BARRICADES SHALL BE PLACED BY CONTRACTOR AND APPROVED BY THE OWNER AND TARGET.
- 3) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE COMMENCING LAND DISTURBING ACTIVITIES AND SHALL NOT BE REMOVED UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.
- 4) CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION, MAINTENANCE, AND REGULAR INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL THE SITE IS FULLY RESTORED.
- 5) TREE TRENCH AND RAIN GARDENS' MULCH/ROCK FILTER BIOLOGS SHALL BE INSTALLED IMMEDIATELY PRIOR TO DISTURBANCE. DO NOT BLOCK DRIVE LANES BEFORE IT IS NECESSARY.
- 6) SOIL STOCKPILES SHALL BE STABILIZED WITH ONE OF THE FOLLOWING MATERIALS: MULCH (SUCH AS STRAW MULCH, SLASH MULCH, WOOD CHIP, OR OTHER APPROPRIATE MULCH), IF SLOPES GREATER THAN 3H:1V, COVER MATERIAL WITH TARPS, PLASTIC SHEETING, ETC...
- 7) IF SEDIMENT IS TRACKED ONTO THE PAVED PARKING LOT OR ONTO CITY STREETS, STREET SWEEPING SHALL BE EMPLOYED. SEDIMENT SHALL BE REMOVED BY SWEEPING WITHIN 24 HOURS.
- 8) PROVIDE INLET PROTECTION FOR NEW CATCH BASINS AFTER INSTALL.
- 9) FOR EROSION CONTROL NOTES AND DETAILS, SEE SW2.0



1 PLAN: EROSION & SEDIMENT CONTROL

0 40 80
 SCALE IN FEET

ISSUED FOR
 BID

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: **LESLIE A. DELLANGELO**
 SIGNATURE: *[Signature]*
 DATE: 01/28/2021 LICENSE #: 49094

CLIENT	1/25/20				
BID				01/26/21	
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:
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 Ph: 1-800-632-2277
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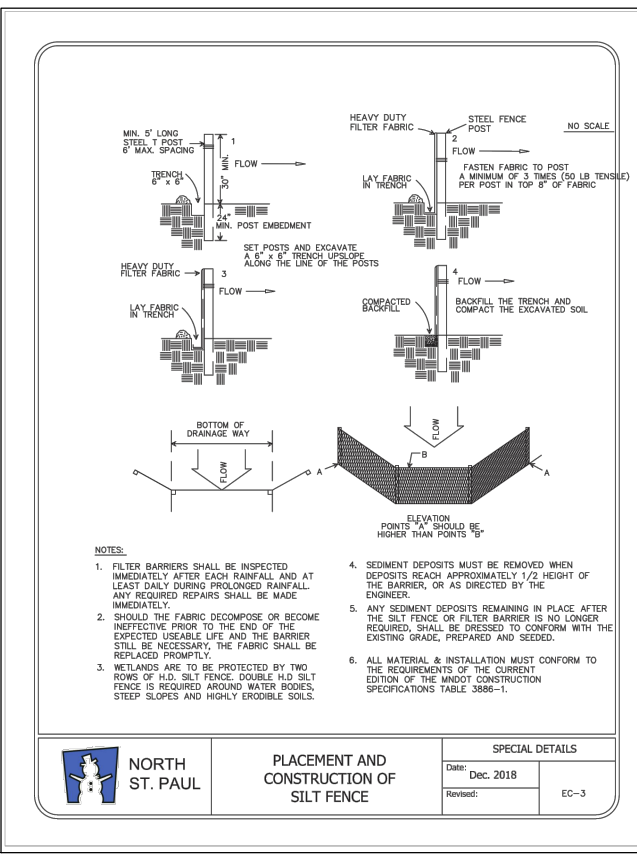
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Date	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD



STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL

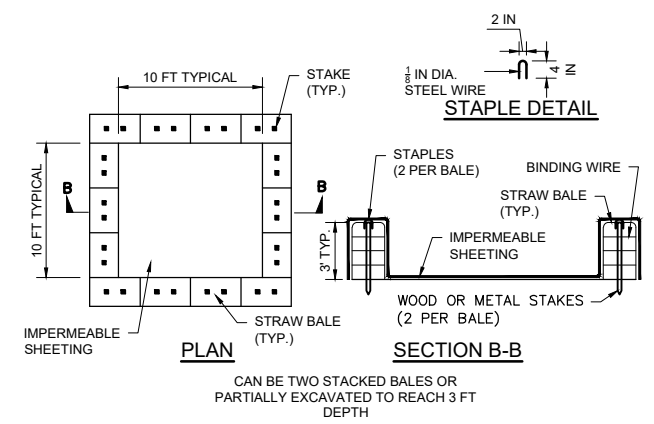
EROSION & SEDIMENT CONTROL
 PLAN

BARR PROJECT No.	23/62-1328.00
CLIENT PROJECT No.	
DWG. No.	SW1.0
REV. No.	0



NORTH ST. PAUL
PLACEMENT AND CONSTRUCTION OF SILT FENCE
 SPECIAL DETAILS
 Date: Dec. 2018
 Revised: EC-3

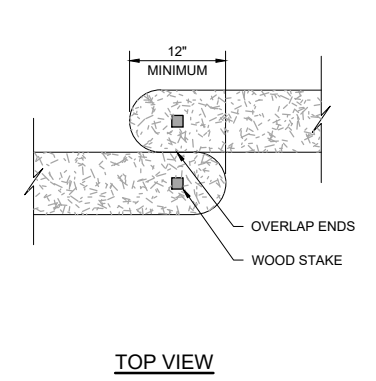
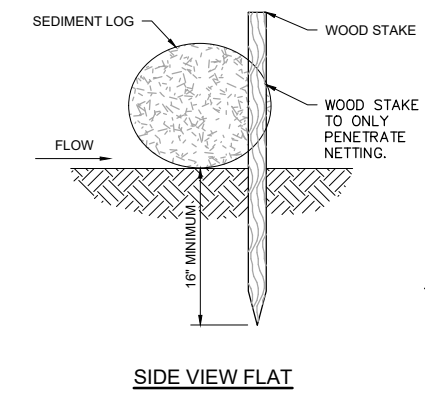
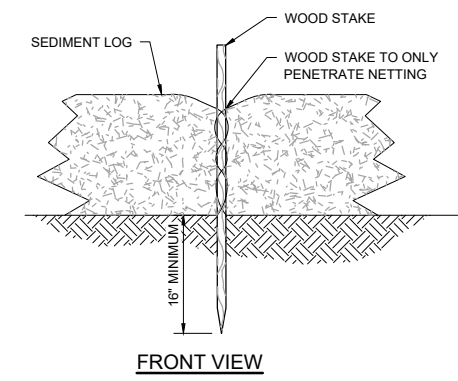
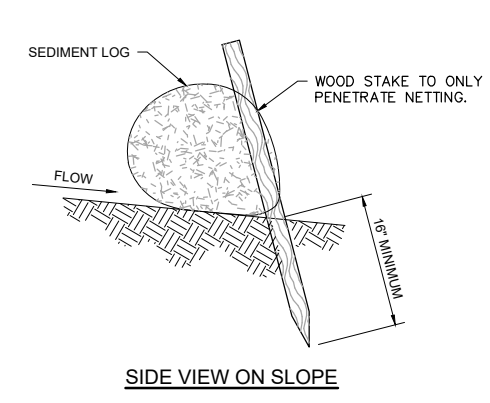
1 NORTH ST. PAUL STANDARD PLATE: EC-3



NOTES:

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

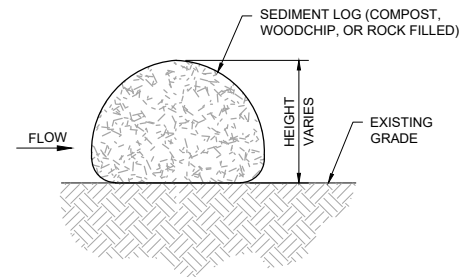
2 DETAIL: CONCRETE WASHOUT - STRUCTURE WITH STRAW BALES
 NOT TO SCALE



NOTES:

1. INSTALL SEDIMENT LOG ALONG CONTOURS (CONSTANT ELEVATION).
2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
3. REMOVE ACCUMULATED SEDIMENT WHEN REACHING 1/3 OF LOG HEIGHT.
4. MAINTAIN SEDIMENT LOG THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACED AS REQUIRED.

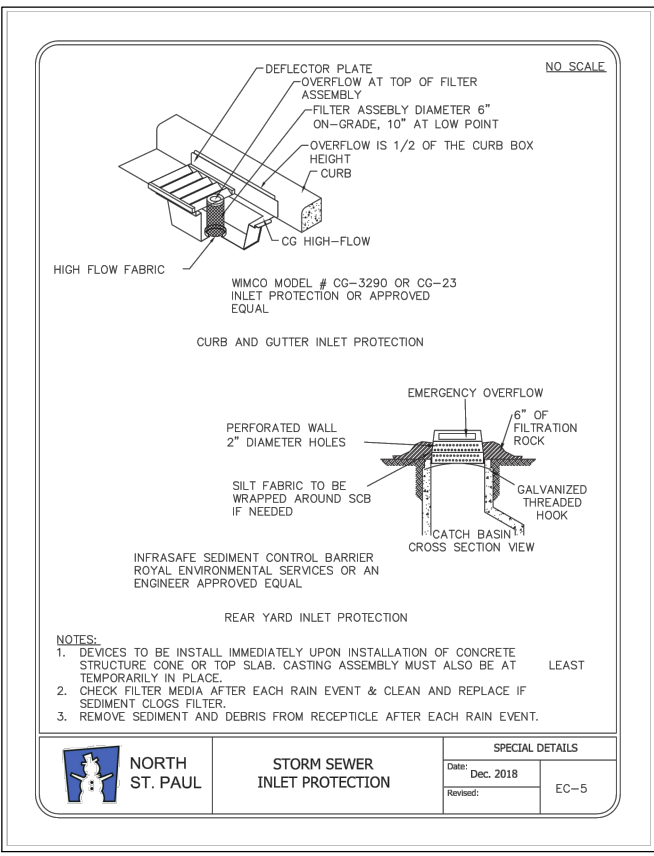
3 DETAIL: SEDIMENT LOG - STAKING
 NOT TO SCALE



NOTES:

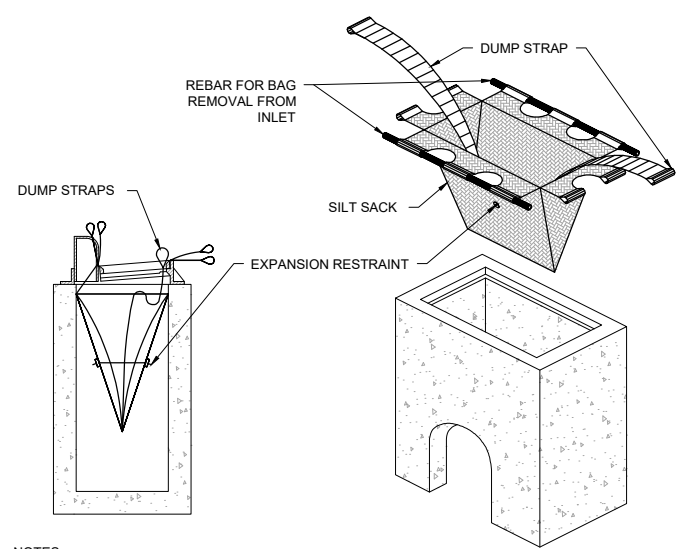
1. STAKE FREE SEDIMENT LOG TO BE USED IN AREAS THAT ARE RELATIVELY FLAT AND SHOULD BE INSTALLED ALONG CONTOURS (CONSTANT ELEVATION).
2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING 1/3 OF LOG HEIGHT.
4. SEDIMENT LOG SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED.

4 DETAIL: SEDIMENT LOG - STAKE FREE
 NOT TO SCALE



NORTH ST. PAUL
STORM SEWER INLET PROTECTION
 SPECIAL DETAILS
 Date: Dec. 2018
 Revised: EC-5

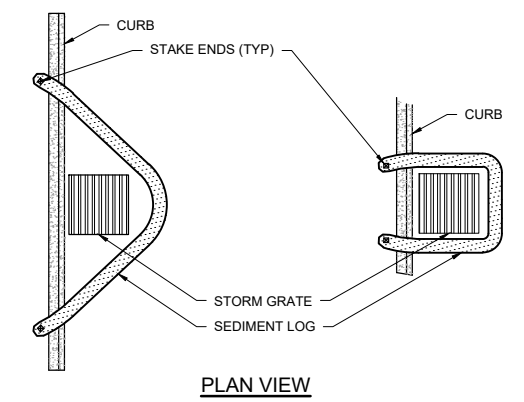
5 NORTH ST. PAUL STANDARD PLATE: EC-5



NOTES:

1. INSTALL INLET PROTECTION PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR IMMEDIATELY FOLLOWING ANY CATCHBASIN INSTALLATION AND MAINTAIN 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. CLEAN FILTER SACK AND REMOVE ACCUMULATED SEDIMENT AS REQUIRED TO ALLOW FLOW INTO THE CATCHBASIN AND PREVENT SEDIMENT FROM LEAVING THE DEVICE.
4. REMOVE DEVICE AND ANY ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

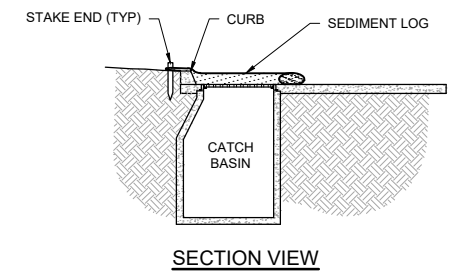
6 DETAIL: INLET PROTECTION, FILTER SACK TYPE
 NOT TO SCALE



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/UNDER SEDIMENT LOG.
3. INLET PROTECTION SHALL BE CLEANED AS REQUIRED.
4. MATERIALS AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

7 DETAIL: INLET PROTECTION - SEDIMENT LOG
 NOT TO SCALE



ISSUED FOR
 BID

CADD USER: Katie J. Turpin-Nigel FILE: M:\DESIGN\23621328\002362132800_NPST_SW2_0_DETAILS-EROSIONCONTROL.DWG PLOT SCALE: 1:2 PLOT DATE: 1/22/2021 2:28 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.		CLIENT	1/25/20						
PRINTED NAME	Leslie A. Dell'Angelo	BID							
SIGNATURE	<i>Leslie A. Dell'Angelo</i>	CONSTRUCTION							
DATE	01/28/2021								
LICENSE #	49094								

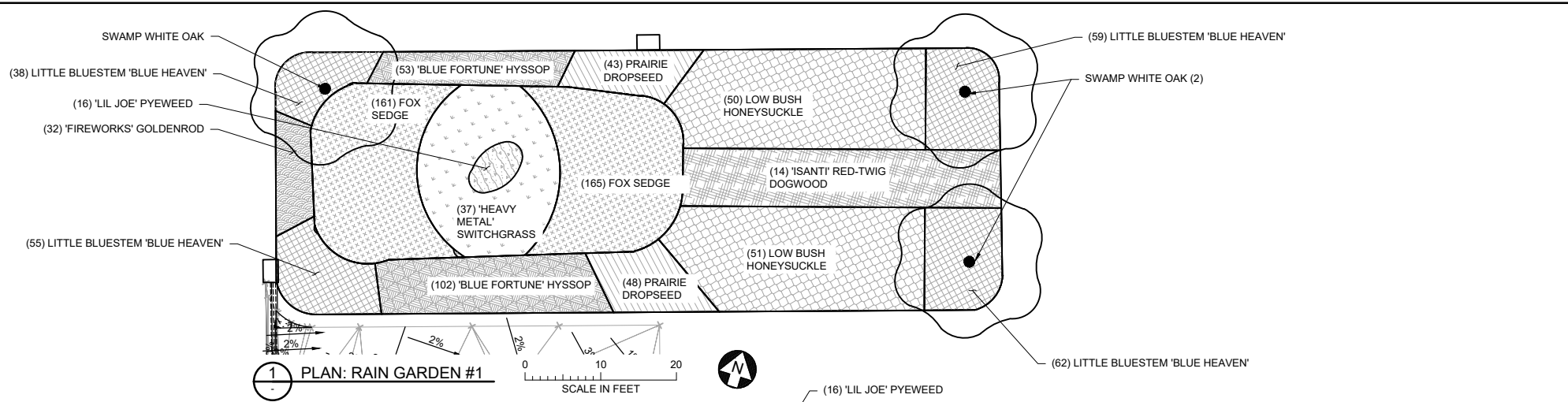
BARR
 Corporate Headquarters
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Scale	AS SHOWN
Date	11/25/2020
Drawn	KJN2
Checked	LAD
Designed	BARR
Approved	LAD

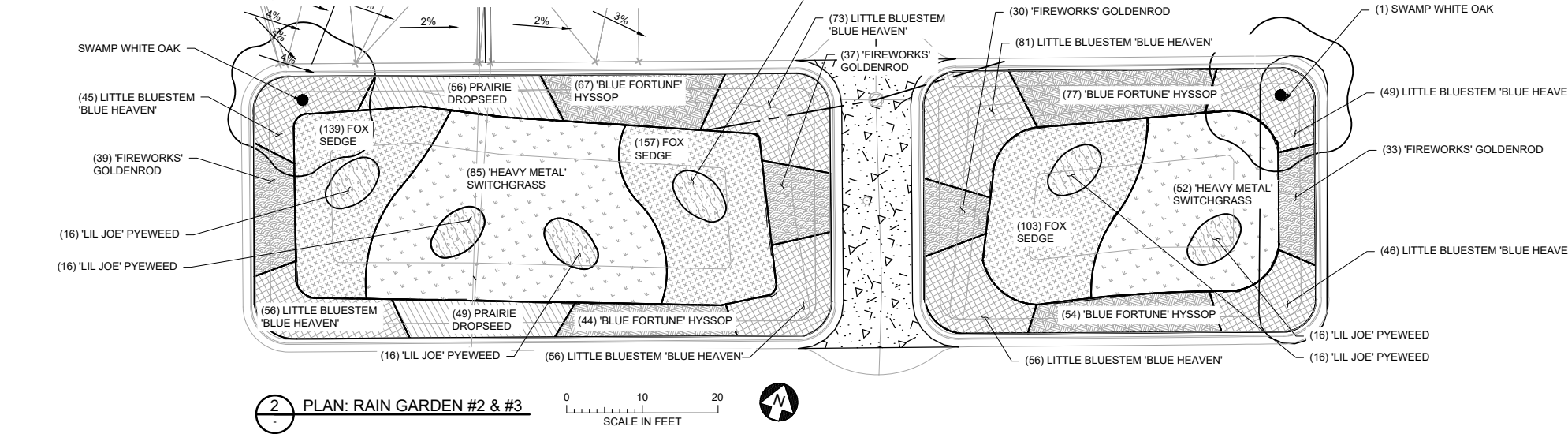
RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL
EROSION AND SEDIMENT CONTROL DETAILS

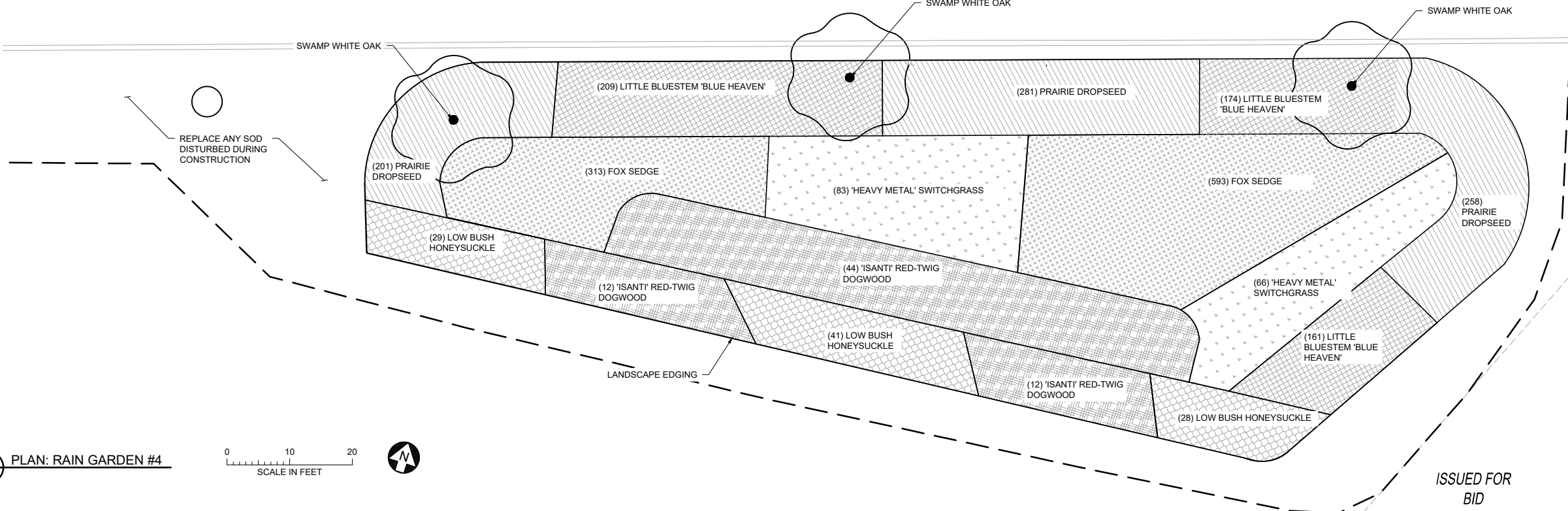
BARR PROJECT No.	23621328.00
CLIENT PROJECT No.	
DWG. No.	SW2.0
REV. No.	0



1 PLAN: RAIN GARDEN #1
SCALE IN FEET



2 PLAN: RAIN GARDEN #2 & #3
SCALE IN FEET



3 PLAN: RAIN GARDEN #4
SCALE IN FEET

RAIN GARDEN PLANTING SCHEDULE

Trees				
COMMON NAME	BOTANICAL NAME	Size	Container	Quantity
Swamp White Oak	<i>Quercus bicolor</i>	1.5" CAL.	B&B	8
Shrubs				
COMMON NAME	BOTANICAL NAME	Size	Container	Quantity
Dwarf Bush Honeysuckle	<i>Diervilla lonicera</i>	2 GAL.	36" o.c.	199
Isanti Redosier Dogwood	<i>Cornus sericea 'Isanti'</i>	2 GAL.	60" o.c.	82
281				
Grasses and Perennials				
COMMON NAME	BOTANICAL NAME	Size	Container	Quantity
Blue Fortune Anise Hyssop	<i>Agastache x 'Blue Fortune'</i>	1 GAL.	18" o.c.	397
Blue Heaven Little Bluestem	<i>Schizachyrium scoparium 'Blue Heaven'</i>	1 GAL.	18" o.c.	1301
Fireworks Winkleleaf Goldenrod	<i>Solidago rugosa 'Fireworks'</i>	1 GAL.	18" o.c.	171
Fox Sedge	<i>Carex vulpinoidea</i>	1 GAL.	18" o.c.	1691
Heavy Metal Switch Grass	<i>Panicum virgatum 'Heavy Metal'</i>	1 GAL.	36" o.c.	323
Little Joe Joe-Pye Weed	<i>Eupatorium dubium 'Little Joe'</i>	1 GAL.	18" o.c.	112
Prairie Dropseed	<i>Sporobolus heterolepis</i>	1 GAL.	18" o.c.	936

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID	1/25/20	01/28/21
PRINTED NAME MATTHEW E. KUMKA	SIGNATURE <i>Matthew E. Kumka</i>	RELEASED TO/FOR	A	B
DATE 01/28/2021	LICENSE # 53974	DATE RELEASED	C	0
			1	2
			3	

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	1/19/2021
Drawn	KJN2
Checked	MEK2
Designed	BARR
Approved	MEK2

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

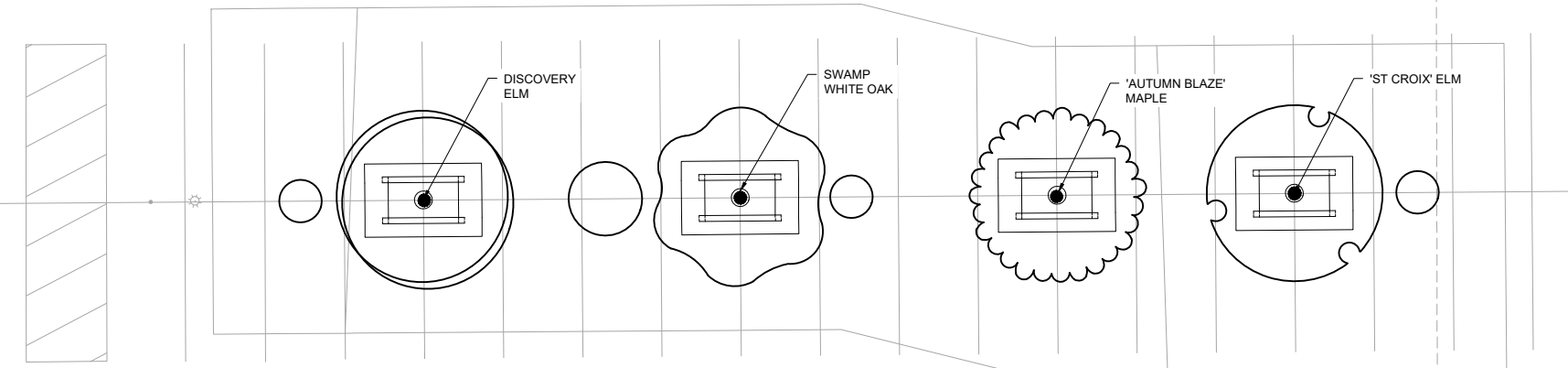
STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL
 LANDSCAPING & RESTORATION PLAN
 RAIN GARDENS

BARR PROJECT No. 23/62-1328.00	CLIENT PROJECT No.
DWG. No. L1.0	REV. No. 0

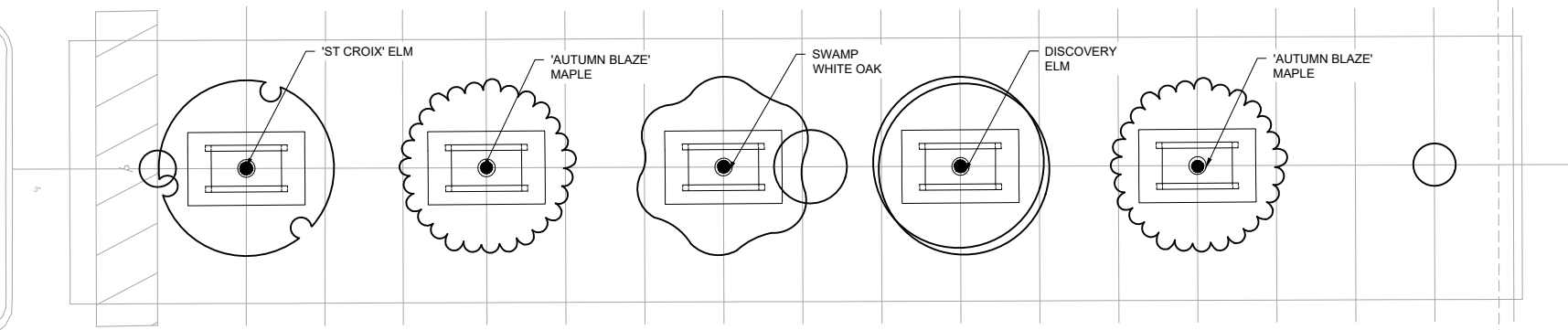
ISSUED FOR BID

TREE TRENCH PLANTING SCHEDULE

TREES	COMMON NAME	BOTANICAL NAME
	AUTUMN BLAZE FREEMAN MAPLE	ACER X FREEMANII 'JEFFSRED' TM
	DISCOVERY ELM	ULMUS DAVIDIANA JAPONICA 'DISCOVERY'
	ST. CROIX AMERICAN ELM	ULMUS AMERICANA 'ST. CROIX'
	SWAMP WHITE OAK	QUERCUS BICOLOR



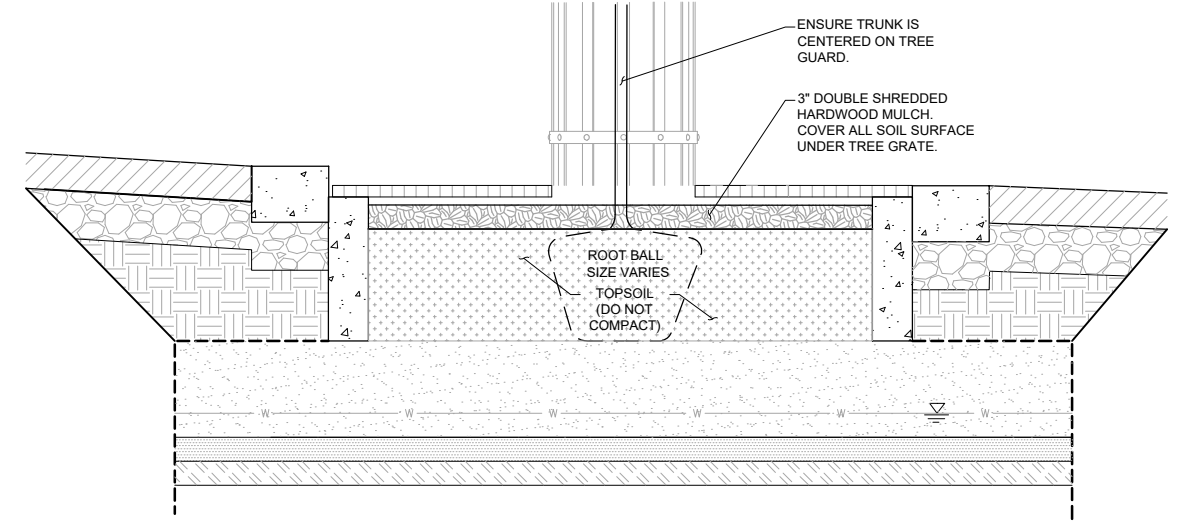
1 PLAN: NORTH TREE TRENCH
SCALE IN FEET
0 10 20



1 PLAN: SOUTH TREE TRENCH
SCALE IN FEET
0 10 20

PLANT SCHEDULE

Trees	COMMON NAME	BOTANICAL NAME	Size	Container	Quantity
	Autumn Blaze Freeman Maple	<i>Acer x freemanii 'Jeffsred' tm</i>	1.5" CAL.	B&B	3
	Discovery Elm	<i>Ulmus davidiana japonica 'Discovery'</i>	1.5" CAL.	B&B	2
	St. Croix American Elm	<i>Ulmus americana 'St. Croix'</i>	1.5" CAL.	B&B	2
	Swamp White Oak	<i>Quercus bicolor</i>	1.5" CAL.	B&B	2



3 DETAIL: TREE TRENCH PLANTING, WITH TREE GRATE
NOT TO SCALE

NOTES:

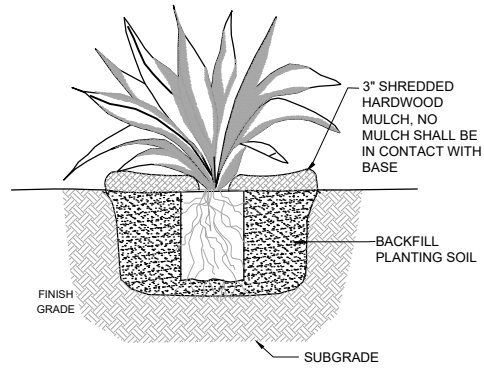
1. PROVIDE AND INSTALL TREE PER SCHEDULE.
2. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL FORM OF THE TREE. DO NOT CUT THE LEADER.
3. DIG PLANT HOLES 18" MIN. LARGER THAN BALL, ALL SIDES.
4. SET TREE ON LIGHTLY FIRMED BACKFILL SOIL AT THE SAME DEPTH GROWN IN THE NURSERY (AT THE CROWN).
5. BACK FILL WITH SPECIFIED PLANTING SOIL AROUND ROOTBALL TO MAINTAIN PLUMB AND ENSURE NO AIR GAPS AROUND ROOTBALL.
6. CONSTRUCT 3" WATERING BASIN. THOROUGHLY WATER WITHIN 3 HOURS OF INSTALLATION.
7. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TREES IN A PLUMB POSITION THROUGHOUT THE 1-YEAR GUARANTEE PERIOD.
8. APPLY 3" DEPTH OF DOUBLE SHREDDDED HARDWOOD WITHIN THE TREE BOX.

ISSUED FOR BID

CADD USER: Elm E. Feenhy FILE: M:\DESIGN\23621328\0002362132800_NSP1_11_TREE TRENCH_PLANTING PLAN.DWG PLOT SCALE: 1:2 PLOT DATE: 1/22/2021 4:20 PM
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 M:\Design\23621328\0002362132800_NSP1_11_TREE TRENCH_PLANTING PLAN.DWG PLOT SCALE: 1:2 PLOT DATE: 1/22/2021 4:20 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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: MATTHEW E. KUMKA SIGNATURE: DATE: 01/28/2021 LICENSE #: 53974	CLIENT: BARR ENGINEERING CO. BID: 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED: 01/28/21	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: 1/19/2021 Drawn: KJN2 Checked: MEK2 Designed: BARR Approved: MEK2		STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL LANDSCAPING & RESTORATION PLAN TREE TRENCHES	BARR PROJECT No. 23/62-1328.00 CLIENT PROJECT No. DWG. No. L1.1 REV. No. 0
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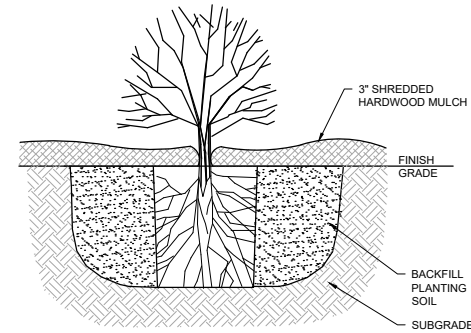
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1 DETAIL: PERENNIAL PLANTING
NOT TO SCALE

HERBACEOUS PLANT PLANTING NOTES:

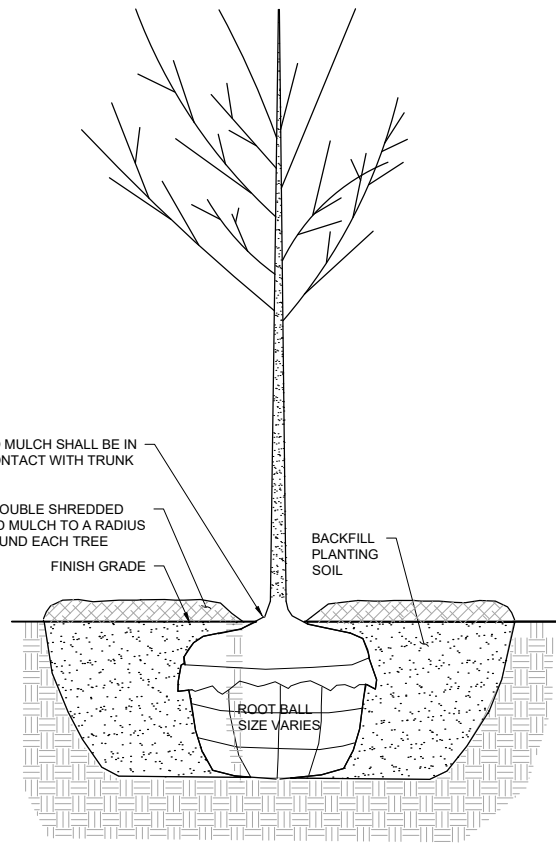
1. PROVIDE AND INSTALL PLANTS PER SCHEDULE.
2. EXCAVATE HOLE 3 TIMES WIDTH OF ROOTBALL.
3. BREAK BOTTOM OF ROOTBALL TO LOOSEN ROOTS.
4. PLANT THROUGH MULCH ALIGNING ROOTBALL TOP EVEN WITH SOIL - DO NOT PLANT TOO DEEP OR TOO SHALLOW. FIRM SOIL TO ENSURE GOOD CONTACT WITH ROOTS.
5. BACK FILL WITH PLANTING SOIL FIRM SOIL AROUND ROOT MASS TO MAINTAIN PLUMB AND ENSURE NO AIR GAPS AROUND ROOT MASS.
6. APPLY 3" DEPTH SHREDDED HARDWOOD MULCH TO ENTIRE PLANTING AREA (SOIL PREPARED AS PER SPECIFICATIONS).
7. NO MULCH TO BE IN CONTACT WITH PLANT.
8. CONSTRUCT 3" WATERING BASIN. THOROUGHLY WATER WITHIN 3 HOURS OF INSTALLATION.
9. WATER THOROUGHLY AFTER PLANTING.
10. ALL PERENNIAL PLANTS PROVIDED BY THE CONTRACTOR SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF PRELIMINARY ACCEPTANCE. AT THE END OF THE ONE-YEAR GUARANTEE PERIOD ALL PERENNIALS SHALL BE IN SATISFACTORY CONDITION, EXCLUDING INSTANCES OF VANDALISM, AS DETERMINED BY OWNER.
- 10.1. REPLACEMENTS: AT THE END OF THE ONE YEAR WARRANTY PERIOD ALL PLANTS SHALL FULFILL ALL THE REQUIREMENTS OF THESE SPECIFICATIONS AND REFERENCES WITH REGARD TO QUALITY AND CONDITION; FURTHER, THEY SHALL BE FREE OF DEAD BRANCHES AND TWIGS AND SHALL BEAR A MINIMUM OF 50% OF THE FOLIAGE PRESENT WHEN PLANTED HAVING NORMAL DENSITY, SIZE, SHAPE AND COLOR AS DETERMINED BY THE ENGINEER. ANY PLANTS FAILING TO SATISFY ALL THESE CONDITIONS SHALL BE REPLACED AS PER THE PRELIMINARY AND FINAL ACCEPTANCE PROCESS. PLANTS MAY BE REPLACED PRIOR TO THE END OF THEIR WARRANTY PERIOD IF SUCH AN AGREEMENT EXISTS BETWEEN THE CONTRACTOR AND THE OWNER. REPLACEMENT STOCK SHALL BE SUBJECT TO ALL REQUIREMENTS AS TO SELECTION, INSPECTIONS, PREPARATION, PLANTING AND MAINTENANCE OPERATIONS. REPLACEMENTS SHALL MATCH CALIBER AND/OR HEIGHT ATTAINED BY OTHER STOCK OF THE ORIGINAL PLANTING.
11. CONTRACTOR SHALL NOTIFY OWNER FOR A FINAL INSPECTION AFTER THE END OF THE GUARANTEE PERIOD, AND AGAIN AFTER ANY AND ALL REPLACEMENTS ARE PLANTED.



2 DETAIL: SHRUB PLANTING
NOT TO SCALE

SHRUB PLANTING NOTES:

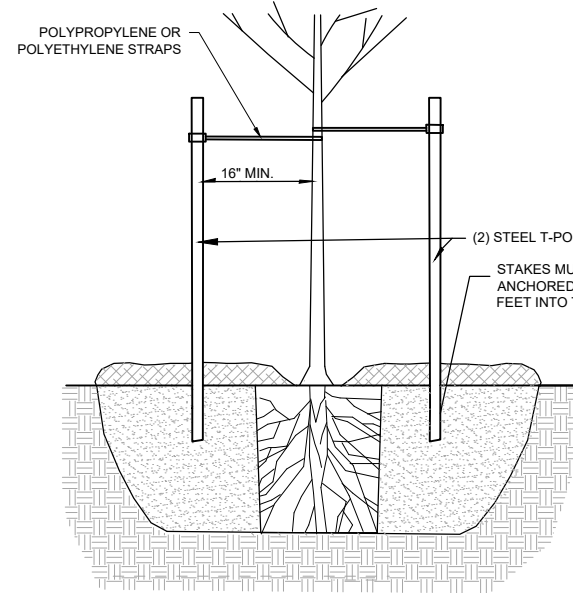
1. PREPARE SOIL WITH COMPOST AMENDMENT PER PLAN.
2. PROVIDE AND INSTALL PLANTS PER SCHEDULE. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL FORM OF PLANT.
3. EXCAVATE HOLE 3 TIMES WIDTH OF ROOTBALL.
4. BREAK BOTTOM OF ROOTBALL TO LOOSEN ROOTS..
5. PLANT THROUGH MULCH ALIGNING ROOTBALL TOP EVEN WITH SOIL - DO NOT PLANT TOO DEEP OR TOO SHALLOW.
6. BACK FILL WITH PLANTING SOIL FIRM SOIL AROUND ROOT MASS TO MAINTAIN PLUMB AND ENSURE NO AIR GAPS AROUND ROOT MASS.
7. APPLY 3" DEPTH SHREDDED HARDWOOD MULCH TO ENTIRE PLANTING AREA (SOIL PREPARED AS PER PLAN).
8. NO MULCH TO BE IN CONTACT WITH PLANT.
9. WATER THOROUGHLY AFTER PLANTING.
11. SHRUBS SHALL BE GUARANTEED FOR 1-YEAR FROM TIME OF PRELIMINARY ACCEPTANCE. CONTRACTOR TO WATER AS NECESSARY TO MAINTAIN IN A HEALTHY CONDITION. AT THE END OF THIS PERIOD ANY DEAD PLANTS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL NOTIFY OWNER FOR A FINAL INSPECTION AFTER THE END OF THE SHRUB GUARANTEE PERIOD, AND AGAIN AFTER ANY AND ALL REPLACEMENTS ARE PLANTED.



3 DETAIL: TREE PLANTING
NOT TO SCALE

TREE PLANTING NOTES:

1. PROVIDE AND INSTALL TREE PER SCHEDULE.
2. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL FORM OF THE TREE. DO NOT CUT THE LEADER.
3. DIG PLANT HOLES 18" MIN. LARGER THAN BALL, ALL SIDES.
4. SET TREE ON LIGHTLY FIRMED BACKFILL SOIL AT THE SAME DEPTH GROWN IN THE NURSERY (AT THE CROWN).
5. CUT ROPES AT BASE OF TRUNK, PULL BURLAP DOWN EXPOSING 1/3 OF ROOTBALL AND THOROUGHLY BURY ROPES AND BURLAP BELOW GRADE.
6. BACK FILL WITH NATIVE SOIL FIRM SOIL AROUND ROOTBALL TO MAINTAIN PLUMB AND ENSURE NO AIR GAPS AROUND ROOTBALL.
7. CONSTRUCT 3" WATERING BASIN. THOROUGHLY WATER WITHIN 3 HOURS OF INSTALLATION.
8. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TREES IN A PLUMB POSITION THROUGHOUT THE 1-YEAR GUARANTEE PERIOD.
9. APPLY 3" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH TO A RADIUS OF 24" AROUND EACH TREE. NO MULCH IS TO BE IN CONTACT WITH TREE TRUNK



4 DETAIL: TREE STAKING
NOT TO SCALE

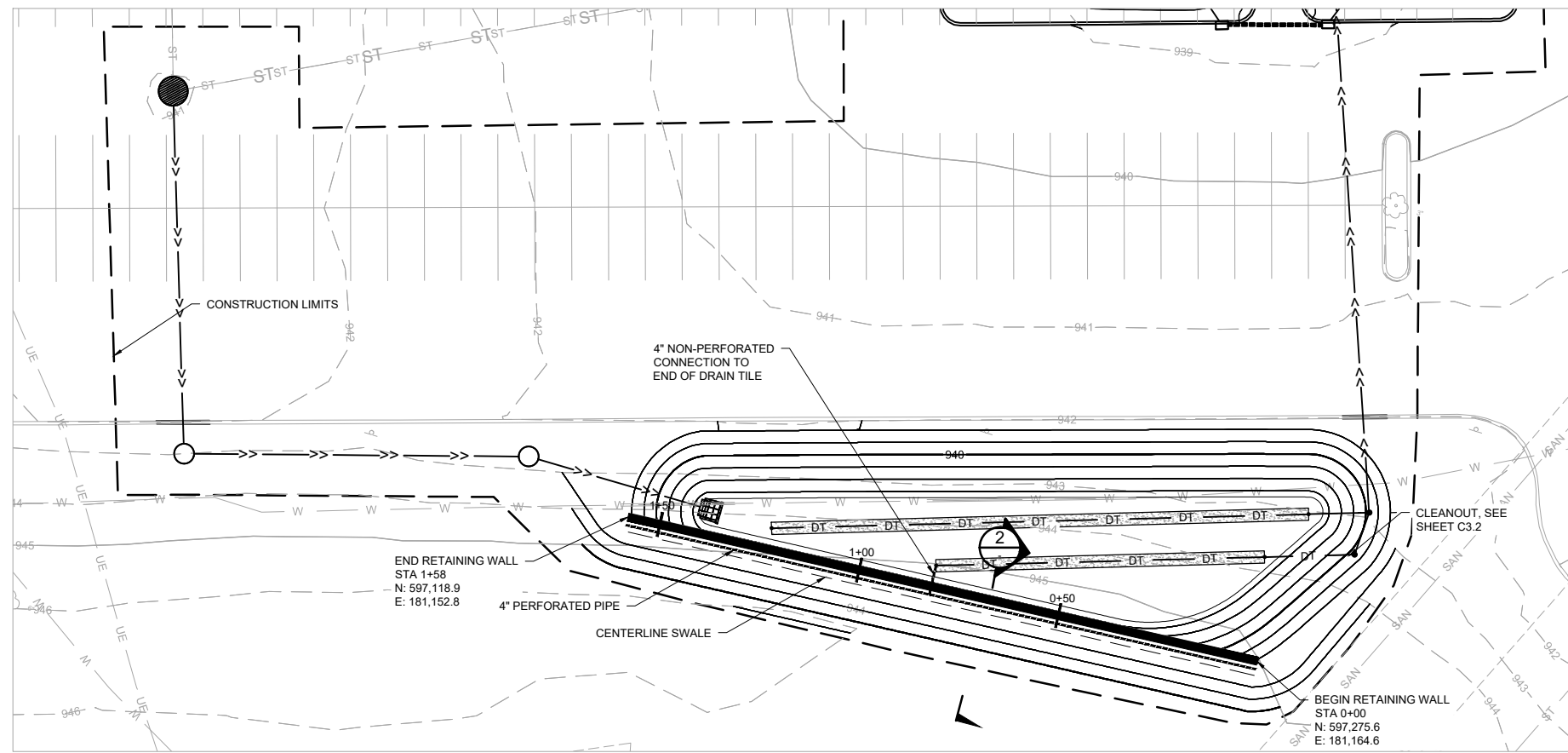
NOTES:

1. ALL TREES SHALL BE STAKED AND TIED TO MAINTAIN VERTICALITY FOLLOWING PLANTING. TREE STAKING SHALL BE CONSIDERED INCIDENTAL TO TREE PLANTING.
2. INSTALL TWO (2) 8" STEEL T-POSTS, ANCHORED 2' INTO THE GROUND ON EITHER SIDE OF THE TRUNK.
3. INSTALL 16" LONG 40 MIL POLYPROPYLENE OR POLYETHYLENE STRAPS AROUND TRUNK AND AFFIX TO HOLES IN T-POSTS WITH 10 GAUGE WIRE.
4. REMOVE THE TREE STAKING AFTER 1-YEAR.

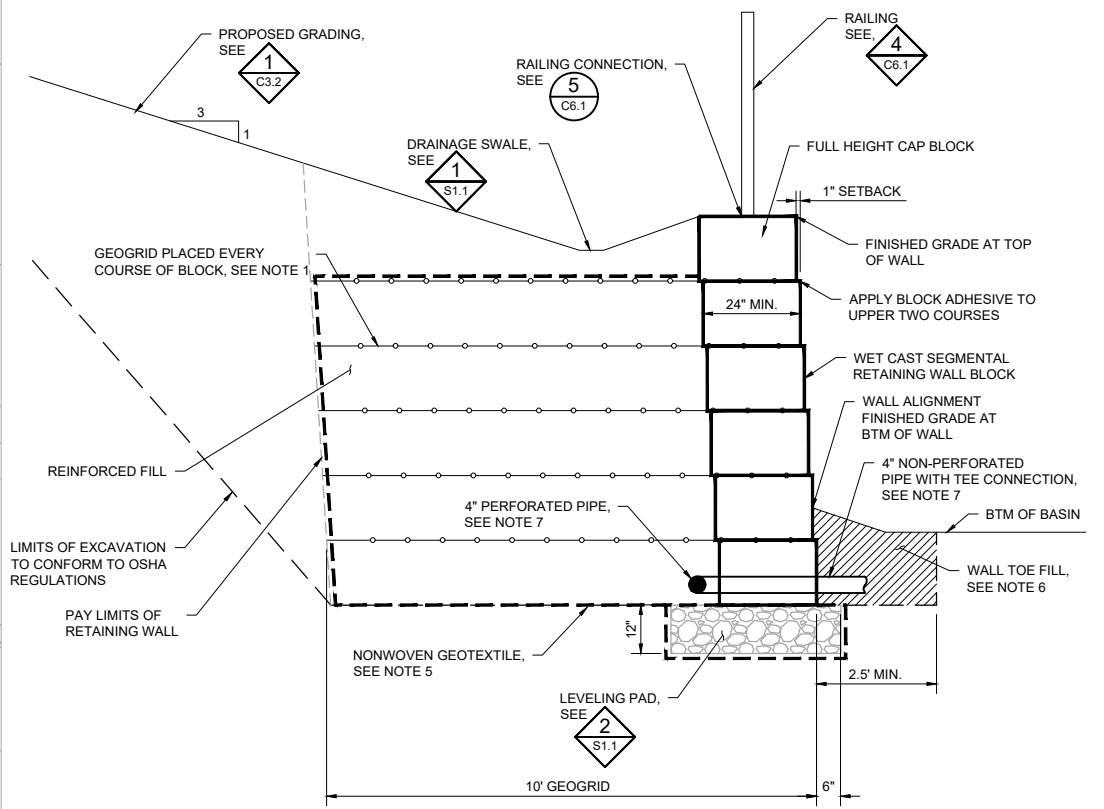
ISSUED FOR
BID

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.										CLIENT BID		1/25/20		01/28/21		Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435		Scale AS SHOWN			STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL		BARR PROJECT No. 23/62-1328.00	
PRINTED NAME MATTHEW E. KUMKA										CONSTRUCTION						CLIENT PROJECT No.								
SIGNATURE										RELEASED TO/FOR		A B C 0 1 2 3		Checked MEK2		DWG. No. L2.0								
DATE 1/28/2021										DATE RELEASED				Designed BARR		REV. No. 0								
LICENCE # 53974														Approved MEK2										

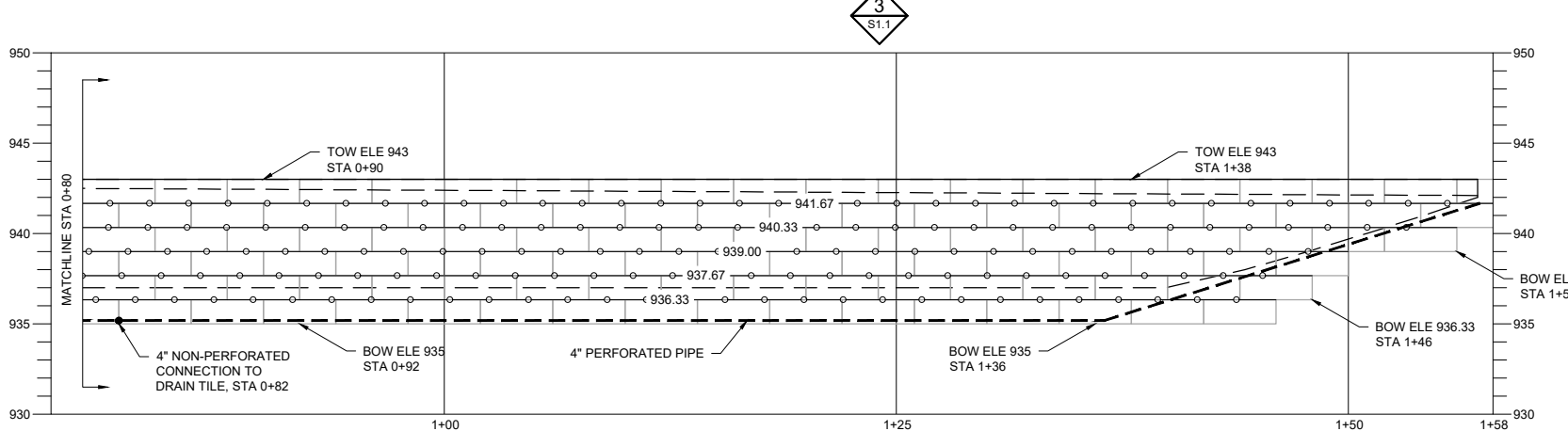
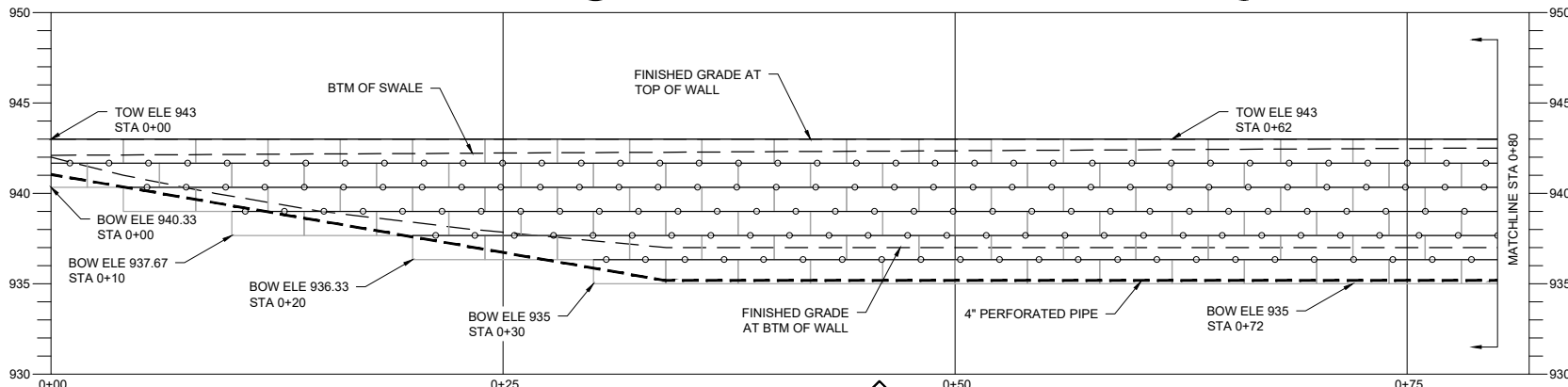
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1 PLAN: SEGMENTAL RETAINING WALL



2 SECTION: SEGMENTAL RETAINING WALL



3 PROFILE: SEGMENTAL RETAINING WALL

- NOTES:
- 1. GEOGRID LENGTH MEASURED FROM FRONT FACE OF BLOCK.
 - 2. WALL ALIGNMENT IS AT FINISHED GRADE AT BOTTOM OF WALL.
 - 3. BLOCKS SHALL BE PREFABRICATED WET CAST SEGMENTAL BLOCKS. SEE SPECIFICATIONS FOR LIST OF PRE-QUALIFIED BLOCK MANUFACTURERS.
 - 4. WALL ELEVATIONS ARE BASED ON A BLOCK HEIGHT OF 16 INCHES. IF BLOCKS OF DIFFERENT HEIGHT ARE PROPOSED, TOP OF WALL ELEVATIONS MUST BE MATCHED AND EMBEDMENT DEPTH MUST MEET OR EXCEED 16 INCHES ALONG ENTIRE WALL ALIGNMENT. SEE SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS.
 - 5. PLACE NONWOVEN GEOTEXTILE AROUND LEVELING PAD AND AROUND REINFORCED FILL AS SHOWN.
 - 6. PLACE WALL TOE FILL IN FRONT OF WALL TO THE MINIMUM LIMITS SHOWN.
 - 7. PLACE 4" PERFORATED PIPE BEHIND BLOCKS AND 4" NON-PERFORATED CONNECTION AT STATION INDICATED. PLACE TEE TO CONNECT PERFORATED AND NON-PERFORATED SEGMENTS.
 - 8. SCARIFY SOILS AT BOTTOM OF LEVELING PAD TO A MINIMUM DEPTH OF 12". COMPACT TO MINIMUM 95% OF THE STANDARD PROCTOR DRY DENSITY.
 - 9. ACTUAL EXCAVATION BACKSLOPE SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS. ADDITIONAL EXCAVATION BEYOND PAY LIMITS IS CONTRACTOR'S RESPONSIBILITY AND INCIDENTAL TO WALL CONSTRUCTION.

- LEGEND:
- TOW = TOP OF WALL
 - BOW = BOTTOM OF WALL
 - = 4" DIAM. DRAIN OUTLET
 - = GEOGRID REINFORCEMENT

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PRINTED NAME: BRENT A. THEROUX
SIGNATURE: *Brent A. Theroux*
DATE: 01/28/2021 LICENSE #: 44276

CLIENT	11/23/20							
BID								
CONSTRUCTION								

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

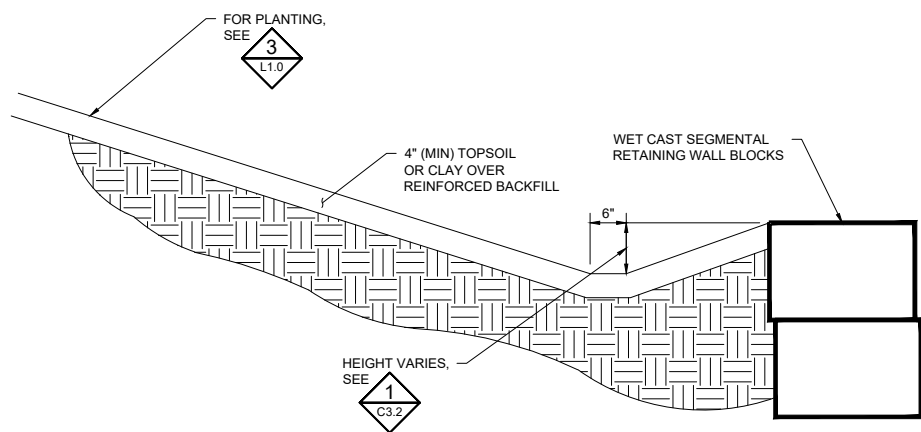
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

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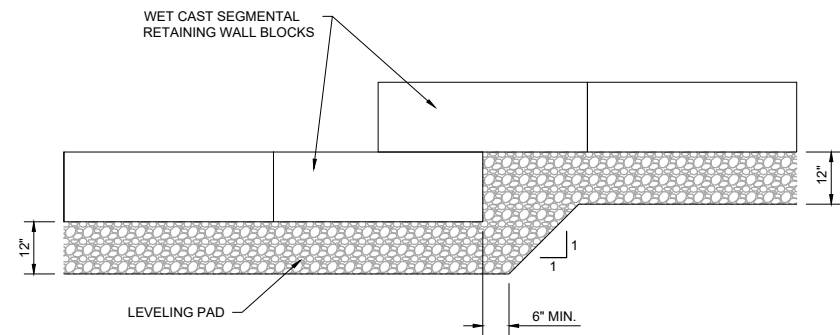
RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

STORMWATER IMPROVEMENTS TARGET - NORTH ST. PAUL		BARR PROJECT No. 23/62-1328.00	
RETAINING WALL PROFILE AND DETAILS RAIN GARDEN #4		CLIENT PROJECT No.	
DWG. No. S1.0	REV. No. 0		

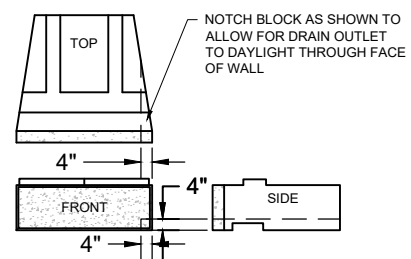
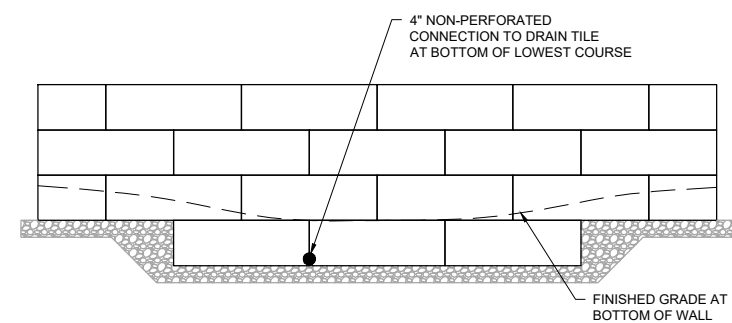
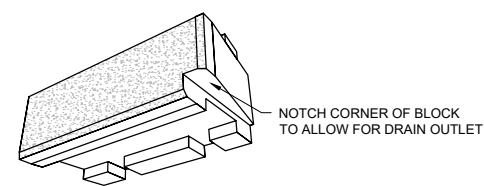
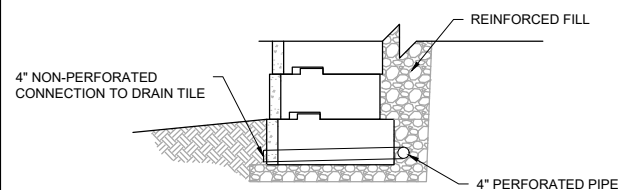
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1 DRAINAGE SWALE DETAIL
NOT TO SCALE



2 LEVELING PAD DETAIL
NOT TO SCALE



3 DRAIN OUTLET DETAIL
NOT TO SCALE

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 PRINTED NAME: BRENT A. THEROUX
 SIGNATURE: *Brent A. Theroux*
 DATE: 01/28/2021 LICENSE #: 44276

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

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

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Date	11/25/2020
Drawn	JEE
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Designed	BARR
Approved	BAT

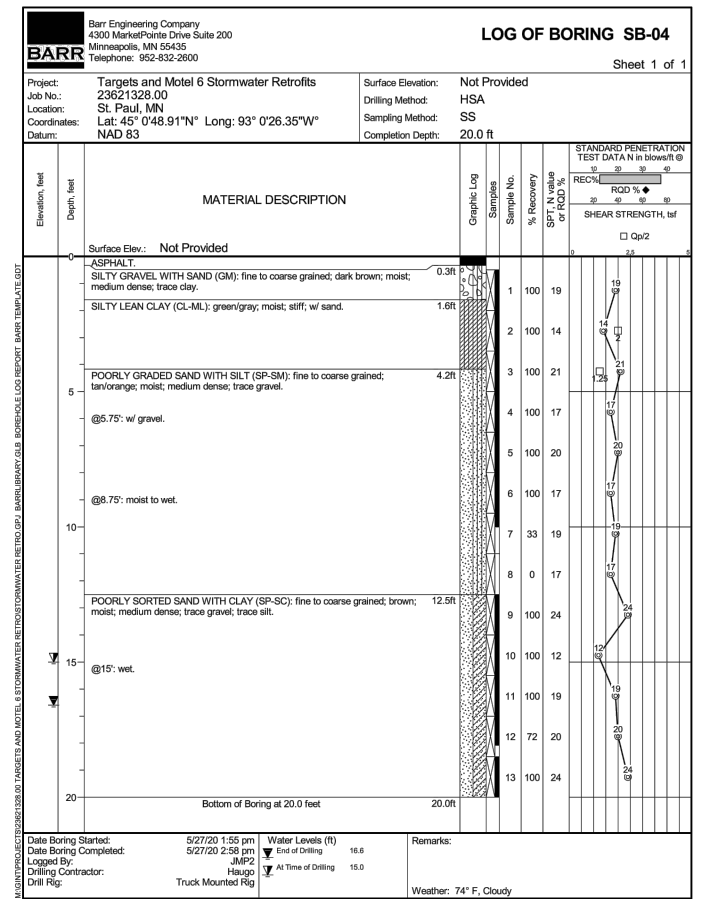
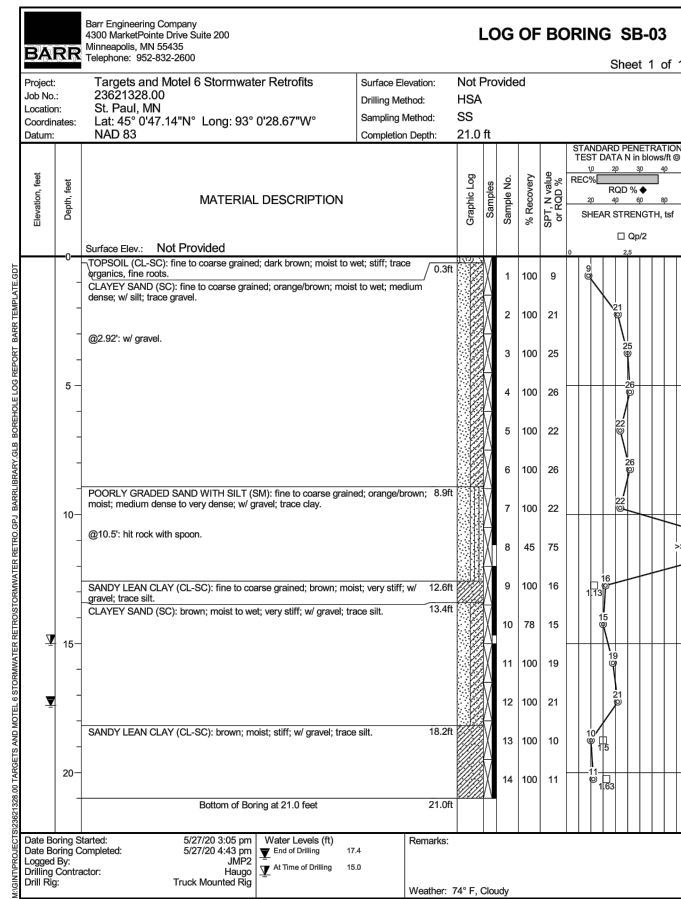
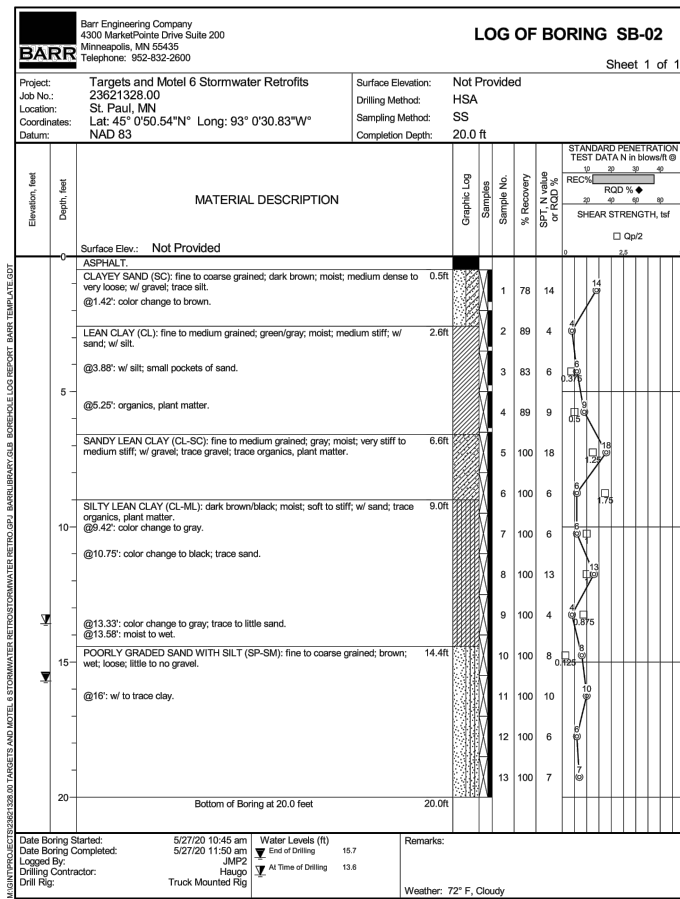
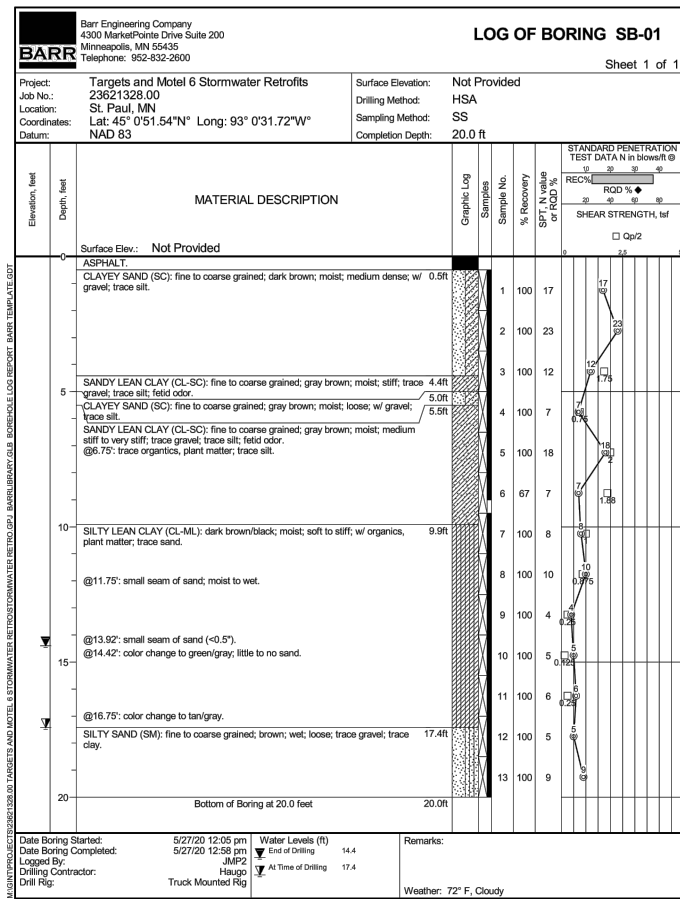
RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

STORMWATER IMPROVEMENTS
TARGET - NORTH ST. PAUL
RETAINING WALL DETAILS
RAIN GARDEN #4

BARR PROJECT No.	
23/62-1328.00	
CLIENT PROJECT No.	
DWG. No.	REV. No.
S1.1	0

NOTE:

- 1) SEE SHEET C1.0 FOR SOIL BORING LOCATIONS



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PRINTED NAME: Leslie A. Dell'Angelo
 SIGNATURE: [Signature]
 DATE: 01/28/2021 LICENSE # 49094

CLIENT	1/25/20					
BID						
CONSTRUCTION						

RELEASED TO FOR: A B C 0 1 2 3
 DATE RELEASED: 01/26/21

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

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Approved	LAD



STORMWATER IMPROVEMENTS
 TARGET - NORTH ST. PAUL

SOIL BORING LOGS

BARR PROJECT No.	23/62-1328.00
CLIENT PROJECT No.	
DWG. No.	B1.0
REV. No.	0

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 BID

CONTRACT DOCUMENTS
TARGET NORTH ST. PAUL RETAIL STORE STORMWATER RETROFITS
ST. PAUL, MINNESOTA
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

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Appendix A Soil Boring Logs

Appendix B Site Contingency Plan



Request for Board Action

Board Meeting Date: February 3, 2021

Agenda Item No: 7B

Preparer: Tina Carstens, Administrator

Item Description: Board of Managers 2021 Annual Meeting

Background:

The following is official business for the Board to take action on at this annual meeting:

1. Elections of Officers

The Board must select a president, vice president, treasurer, and secretary. The current officers are as follows:

President	Marj Ebensteiner
Vice President	Cliff Aichinger
Treasurer	Larry Swope
Secretary	Dianne Ward

The President will serve as the chairperson for all meetings, be a signatory to the District's account and sign any contracts or correspondence.

The Vice President will perform the President duties in the event of an absence. The Vice President is also responsible for being the personnel representative from the Board. This means that the Vice President would coordinate the Administrator's review as well as consult with the Administrator on personnel issues that may arise.

The Treasurer will be a signatory on District accounts and sign the monthly checks.

The Secretary will oversee the minutes of the meetings and sign documents that require multiple signatures.

Staff recommendation is for the Board to elect its president, vice president, treasurer and secretary for 2021.

2. Consulting Staff Selection

This is the in-between year where the District is not required to public notice a proposal solicitation for our consultant staff. Staff does not recommend making any changes at this time. The following are the current appointments:

Engineer: Barr Engineering
Attorney: Galowitz Olson
Accountant: Redpath and Company

Staff recommendation is to appoint Barr Engineering, Galowitz Olson, and Redpath and Company to continue as the consultants for 2021.

3. Official Designations

A final item of business is to designate the District's official newspapers and banking institution. Current appointments for each of these items are as follows:

Official Bank of Deposit

4M Fund through the League of Minnesota Cities: US Bank

Official Newspapers

White Bear Press
Shoreview Press
Stillwater Gazette

As a reminder, we have also attempted to publish in the St. Paul Pioneer Press in the past and have run into difficulties getting our notices to run in that paper. Our staff will submit the required information and not hear back from the Pioneer Press staff in a timely manner and then miss the deadlines required by law for our notices. Tracey Galowitz will be putting together some guidance for you to discuss at the meeting regarding newspaper designations.

Staff recommendation is to approve the Official Bank of Deposit and also review and discuss the attorney recommendations and designate the official newspapers.

Applicable District Goal and Action Item:

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

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

Staff Recommendation:

Staff recommends appointing the consulting staff, official bank of deposit and official newspapers as shown above.

Financial Implications:

None

Board Action Requested:

Appoint Board officers and designate the desired consulting staff, official bank of deposit, and official newspapers.

* * * * *

Administrator's Report

* * * * *

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: February Administrator's Report
DATE: January 28, 2021

A. Meetings Attended

Tuesday, January 5	2:00 PM	Meet with Board Member Ward
Wednesday, January 6	6:30 PM	Board Meeting
Thursday, January 7	11:30 AM	Metro-INET Tech Forum
Friday, January 8	8:30 AM	MAWA Executive Meeting
Thursday, January 14	2:30 PM	MS4 Collaboration Meeting
Friday, January 15	9:00 AM	WaterFest 2021 Meeting
Wednesday, January 20	1:00 PM	MPCA Stormwater Manual Meeting
Friday, January 22	11:00 AM	BWSR Watershed Implementation Funding
	1:00 PM	Met Council Grass Lake Interceptor Project
Thursday, January 28	8:30 AM	MAWA Committee Meeting – MAWD Handbook
	1:00 PM	Metro Watershed Administrator Meeting
Friday, January 29	8:30 AM	MAWA Executive Meeting

B. Upcoming Meetings and Dates

CAC Meeting	February 9, 2021
March Board Meeting	March 3, 2021
April Board Meeting	April 7, 2021
Metro MAWD	April 21, 2021
CAC Meeting	April 27, 2021
CAC Meeting	June 8, 2021
Metro MAWD	July 21, 2021
CAC Meeting	September 28, 2021
Metro MAWD	October 20, 2021
CAC Meeting	October 26, 2021
CAC Meeting	December 7, 2021

C. MAWA and MAWD Activity

I thought it might be helpful to talk with you about the Minnesota Association of Watershed Administrators (MAWA) and its connection to the Minnesota Association of Watershed Districts (MAWD). You have seen many activities and meetings regarding MAWA and may have wondered what this is all about.

For many years, watershed administrators across the state have met together under the name Association of District Administrators or ADA. This was formed as a way for administrators to get together and share information. Their meetings would often be paired with MAWD events. It was a loose group led by whoever felt the most interested in keeping that group together.

A handful of years ago, the administrators made an effort to form a more formal structure and invite in other watershed administrators from WMOs. To be more inclusive, we changed our name to MAWA and developed by-laws for the group. Part of the by-laws formed an executive committee that includes a President, Vice President, Past President, Secretary, and three at large members, one from each region. I have served as an at-large member for Region 3 for the past couple of years.

The following mission statement was developed.

The mission of the Minnesota Association of Watershed Administrators (MAWA) is to provide a united message for watershed management through continuing education and training, communication, networking, advising the Minnesota Association of Watershed Districts, and collaborating with state and local government entities.

Over the last year, MAWA has made a strong effort to be more integrated with MAWD and the MAWD board, and many state agencies and their committees. MAWA President, Margaret Johnson from Middle Fork Crow River WD, will have time allotted to her at MAWD board meetings for MAWA updates and will seek opportunities to advise and assist. MAWA members now sit on each of the MAWD committees. For instance, I sit on the Events Planning committee as a MAWA representative. For 2021, MAWA has also established its committees to work on state policy issues and lead an update of the MAWD handbook. I have volunteered to help with the MAWD handbook update.

This is for your information and to update you on my involvement in MAWA. Happy to answer any questions you have about MAWA.

* * * * *

Project and Program Status Reports

* * * * *

Memorandum

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – February 2021
Date: January 28, 2021

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.

Previously, Barr compiled the project findings and proposed improvements into a near-final comprehensive technical memorandum. The most recent version has been provided to RWMWD staff for review. Once staff comments are received, Barr will integrate the relevant updates into the final report.

The information in this study is being used to guide the phased approach for the area. Examples of current implementation items occurring in 2021 include the Ryan Drive conveyance improvement, the Owasso Basin berm raising, the cleaning of Gervais Creek, and the Keller Parkway conveyance improvements.

Implementation of various other study-related projects will be ongoing in future years.

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.

Completion of the Willow Creek area surveying work is being coordinated with the survey work in the Ames Lake area, described below. Survey elevations being collected include the low opening and low adjacent grade near each structure considered to be at risk of flooding. This information is needed to provide more accurate elevations than those estimated from LiDAR (Light Detection and Ranging—a

remote sensing method that uses light in the form of a pulsed laser to measure ranges to the Earth) to determine structures actually within the flood zone.

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.

To avoid further unexpected confrontations, Barr and district communications staff met this month to discuss how to improve outreach to neighborhoods before sending surveyors to collect information.

Survey elevations being collected include the low opening and low adjacent grade near each structure considered to be at risk of flooding, similar to, and in conjunction with, the elevation survey being conducted in the Willow Creek area.

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 use the RWMWD's updated stormwater model to develop information required to update the FEMA floodplain maps. Minnesota Department of Natural Resources (DNR) grant funding is being used.

Barr staff met with the DNR on November 20 to discuss DNR comments and receive direction regarding modifications to identification of inundation areas. This month, staff continued the process of updating inundation areas, following direction provided by the DNR. Final GIS file and supporting documentation will be delivered to the DNR in February 2021.

The DNR has tentatively scheduled a meeting to review the revised inundation areas on March 4, 2021. DNR staff will coordinate and facilitate the meeting. Barr and RWMWD staff will also attend and be available to address questions as needed.

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 the spring of 2021.

Capital improvements

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

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

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report February 2021
Date: January 28, 2021

Page 3

Barr has completed design and construction documents for the North Saint Paul Target store and has prepared a separate memorandum (attached) requesting authorization to solicit bids. The memo summarizes the project and includes the draft plans, specification outline, expected schedule, and estimate of probable construction costs. If appropriate, the board should consider a motion that “approves the preliminary design, specification outline, estimate of probable construction costs, and schedule and direct staff to finalize design, prepare bidding documents, and advertise the project for bid.” If passed, bids will be received in February and offered to the managers at the March board meeting for consideration of an award.

This schedule will allow construction to start this spring in time for fall completion.

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.

The DNR permit was received on December 23, and now the only remaining permission is from Ramsey County Parks and Recreation (RCPR). The project is underway; however, with the contractor currently working at Lake Phalen and not on RCPR property in the Keller channel.

During this period, the contractor continued to make good progress on the work to the east Phalen outlet structure. The additional outlet pipes have been installed and the manholes to house the gates are in place. The structure modifications in the front to enlarge the opening are also done. We expect the work on the east structure, with the exception of the gate, controls, and power, to be substantially complete by February 1. The crews are expected to mobilize to the west Phalen outlet and begin the work on that structure on or shortly after January 27.

Progress Payment No. 1 and Change Order No. 1 is included for board consideration at the February 3 meeting. The work is expected to continue through March 2021.

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.

This period, the contractor completed the remaining punch list items. Construction of the outlet is complete, and the contractor has submitted the application for final payment. The gate is currently in the open position. As previously mentioned, following construction, the City of Little Canada will handle outlet operation as well as manhole and culvert maintenance. The RWMWD is responsible for maintenance of the conveyance ditch from the railroad to the outlet.

CIP project repair and maintenance

CIP maintenance/repairs 2021 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 was awarded the contract at the January 6 board meeting. Since the award, Barr staff requested and received all the contract submittal information from the contractor and provided the information to the district attorney for review. All submittals appear to be in order and the agreement has been signed by both parties. A formal “notice to proceed” letter was issued on January 25, and the contractor began work near Owasso Basin on January 26.

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, and remaining pipe inspections, will be completed and a comprehensive inspection report provided this winter, when flows subside and the tunnel can be accessed safely.

Barr and district staff recently met with a construction contractor (PCiRoads LLC) to discuss the localized repairs and provide the contractor with an overview of the repair scope (location, access, repair extents, etc.). During this next period, Barr staff will develop repair details and work with the contractor on pricing. These repairs are anticipated to be completed mid-to-late February in conjunction with the repairs to the McKnight Basin outlet pipeline repairs.

Ryan Drive and Keller Parkway conveyance (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)

The purpose of this project is to implement improved conveyance through Gervais Creek, as recommended by the Owasso Basin Bypass Feasibility Study.

The two soil borings on Keller Parkway, adjacent to the Gervais Creek crossing, were completed on December 29 and 30, 2020. This drilling work was performed by Haugo Geotechnical Services. Soil samples were provided to Soil Engineering Testing for analyses, and the findings from this geotechnical investigation are being used in the detailed design of a new conveyance structure for Gervais Creek through Keller Parkway.

Barr and district staff met with Ramsey County on Friday, January 15, to discuss the scope of the Keller Parkway crossing and county road/geometric requirements. The county provided its typical roadway cross-section detail for use in the district’s project. Similarly, Barr staff are expected to meet with the

City of Little Canada to discuss the scope of the work on Ryan Drive. Concurrently, we are seeking funding contributions from both Ramsey County and the City of Little Canada, which are responsible for maintenance on these two roadways.

Barr is continuing to develop the construction documents and the detailed design associated with the work. Barr has continued performing detailed H&H analyses on both crossing locations (Ryan Drive and Keller Parkway) to maximize the flood-risk reduction benefit given the constraints. During this next period, Barr will advance the detailed design of both crossings to a point where an estimate of probable construction costs can be prepared, and draft contract construction documents developed. These will be offered at the March 3rd board meeting for consideration of bidding.

Project operations

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

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

RWMWD staff are worked with our website designer, Windmill Designs, who is progressing smoothly with creating the iFrames on the district's website that will provide the connection with the report graphs. The water level information is now available on the website for Owasso, Wabasso, Snail, and Phalen Lakes. Here is a link to the Snail Lake page for you to see.

<https://www.rwmwd.org/projects/snail-lake/> Note that water level information in the winter is skewed because of snow and ice buildup on the lake. A statement is posted on the site to describe this as well.

The four newest stations (Spoon, Battle Creek, Twin, and Tanners lakes) are nearing completion of the physical installation. And, Xcel Energy and Kilmer Electric are working on the power connection at the Tanners Lake station. Barr and district staff will install the monitoring equipment as soon as all stations have power. These lakes will also have the water level information on the website when that is complete.

Monitoring water quality/project monitoring

Special project BMP monitoring (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)

The primary objective of this project is to monitor specific water quality BMPs that have been implemented by RWMWD, particularly those that include filtration media such as iron-enhanced sand, spent lime, or CC17 crushed limestone aggregate, and/or which leverage continuous monitoring and adaptive control (CMAC) technology.

This period, Barr began coordination with district staff to plan for monitoring and maintenance efforts for the Willow Pond CMAC spent-lime filter in Roseville's Willow Pond Park. The filter, though constructed in 2019, has not, yet, been placed online and monitored due to coronavirus delays in 2020. The current plan is to place the filter online and start monitoring the site in the spring of 2021.

Natural Resources Update – Bill Bartodziej and Simba Blood

Online Plant Guide and Educational Signage – Update – Wetland A

As we mentioned a few times last year, whenever we are working around Wetland A, we usually hear a host of positive comments about the restoration activities taking place. The interest level and the public interaction are extremely high, similar to what we experience along the restoration areas at say Lake Phalen, Keller Creek, or Keller Golf Course. This is certainly a very popular local destination for area residents. The high quality natural buffer that is being established will add to the wetland being one of the major attractions in the regional park.

The NR team is working with Lauren, Sage and Ramsey County staff on communications and education initiatives. A priority this winter is to produce educational signage that will be installed in spring/early summer. Our main goals are to highlight the restoration work being done, the unique ecological qualities of the wetland, and the identification and importance of the plant species present on site. We are in the process of putting together materials and will soon meet with a design artist to discuss messaging, layout, and production.

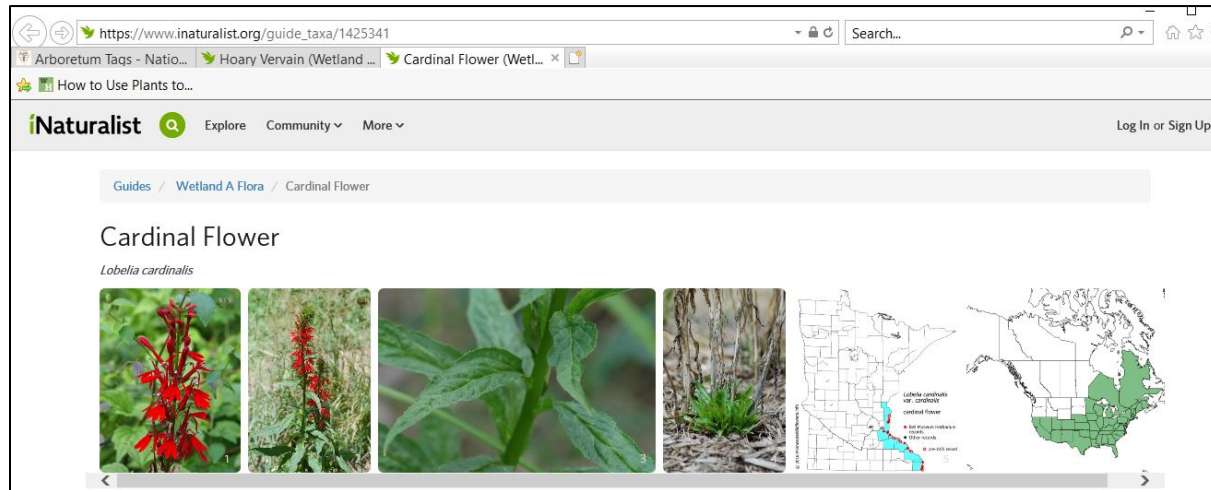
For the identification component, we will be using UV stable aluminum plant signs in the field that will display the common and scientific names, origin, our watershed logo, and a QR code (example below):



The QR codes will be linked to our custom online plant guide that will be hosted on the i-Naturalist app. Users can then easily access plant information on their phones or at home on their computers. A total of 225 plant species will be summarized in the guide. We will mainly highlight Minnesota native species, but more common invasive weed species will also be summarized. Identification signs will be used for the more common plant species found around Wetland A.

Although developed for Wetland A, this resource can be thought of as an online plant guide for the entire watershed. If the plant signs are a big hit, we can use the same signs on other sites around the

watershed, directing people to our custom watershed plant guide. This can be thought of as an updated, more generic “Phalen Plant Guide” that is now available online. We are proud to say that over 90% of the photos used in this guide were taken by watershed staff. This will be a major contribution to others that will use these photos for their identification and plant guide projects (with watershed permission and photo credits). An example of a plant page in the guide is provided below. The interactive website link (in preparation) is: https://www.inaturalist.org/guide_taxa/1425341



Summary ⁷

Lobelia cardinalis (syn. *L. fulgens*, cardinal flower) is a species of flowering plant in the bellflower family Campanulaceae native to the Americas, from southeastern Canada south through the eastern and southwestern United States, Mexico and Central America to northern Colombia.

Description ⁸

Family: Campanulaceae (Bellflower Family)

Height: 2-4 feet

Leaves: Alternate, dark green, with irregular teeth, up to 6" long

Flower: Bright red, alternate on stem forming a spike, irregular shape (3 lower and 2 upper petals) forming a tube

Bloom time: July - September

Nicknames: Lobelia, Asthma Weed, Gagroot, Bladderpod

Habitat: Tolerates part shade to sun. A common plant of wet meadows, woodlands, and open woods.

Wildlife Benefits: Nectar source for hummingbirds and some swallowtail butterflies

Can I plant this in my garden? Cardinal flower does well in moist to wet soils high in organic matter. Keep soil damp if planted in full sun. It is a short-lived perennial so it must re-seed to persist.

References: <https://www.minnesotawildflowers.info/flower/cardinal-flower>

Additional Range Maps ⁸

USDA NRCS Plants Database

Sources and Credits

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iNat Map

Habit	Forb
Flower	red
Origin	native
Life cycle	perennial
Family	Campanulaceae

Public Involvement and Education Program – Sage Passi

Smart Salting Outreach For Churches in RWMWD



RWMWD's church database was updated and letters were sent to churches in our watershed to help them identify the nearest water bodies where their stormwater flows to and the chloride impairment status of those lakes, wetlands or creeks. The mailing includes a letter and a tip sheet encouraging faith communities to adopt smart salting practices on their church grounds. The letter also cites a recent study by the University of Minnesota that found that about 78% of salt applied in the Twin Cities for winter maintenance remains in the local lakes, wetlands or ends up in groundwater.

This outreach campaign focuses on 54 churches in 18 subwatersheds. These are the number of churches in each subwatershed that will receive this mailing: Beaver Lake (2), Beltline (9), Battle Creek (3), Battle Creek Lake (3), Bennett Lake (3), Carver Lake (1), Fish Creek (1), Gervais Creek (1), Grass Lake (2), Keller Lake (1), Kohlman Creek (8), Kohlman Lake (1), Lake Emily (1), Lake Owasso (1), Lake Phalen (8), Twin Lake (1), Tanners Lake (4) and Willow Creek (4). A similar smart salting outreach mailing is planned for schools in our watershed district in February.

New Water Stewards Join Our Team and Begin Training



Two new Water Stewards came on board this winter for RWMWD and began the online training course in January. A virtual orientation session led by Freshwater was held on January 12 for Water Stewards across the metro area. The training program is being adapted this year with online check-ins scheduled in February, March and April that will be run collectively by partner organization staff. RWMWD, Rice Creek Watershed District, the city of Rochester, Vadnais Lake Area Management Organization and EMWREP on behalf of South Washington County Watershed District are collaborating to coordinate these monthly check-in training sessions for the East

sessions for the Metro area. Each partner will also be scheduling their own virtual watershed tour for their Water Stewards to be set up sometime in February. In May, Freshwater staff will lead the final Next Steps and Capstone workshop in the Minnesota Water Stewards course for all the metro Water Stewards. Then over the late spring and summer, Water Stewards will develop and work on their capstone and outreach projects.

RWMWD welcomes two new Water Stewards into the training program for 2021.

Whitley Mike, who lives on the east side of St. Paul, is a recent graduate in a Masters of Sustainable Design program at the Minneapolis College of Art and Design. She is a graphic designer for Michael Lynch in Minneapolis with skills in design, photography and art direction. As a part of the Green Team, a sustainable organization at her workplace, she leads and hosts talks for various personal and professional organizations on how to be more sustainable humans for our planet. She is also a part of the Sedna Epic Expedition, a group of woman collaborating on an expedition in 2021 to the arctic to study oceanic ecosystems.

Through the Minnesota Water Stewards program Whitley says, “I want to learn more about how daily human habits affect our vulnerable aquatic species.”

Jennifer Olson is the Initial Development Coordinator for the Minnesota DNR in the Fish and Wildlife Division and assists with strategic land acquisitions for the state. She is giving a presentation in early February 2021 at the Midwest Fish and Wildlife Conference on Local Government Engagement around Public Land Ownership. She lives in Shoreview, sits on the City of Shoreview Environmental Quality Committee (EQC) and is involved in the Rice Creek Watershed District Stream Health Evaluation Project (SHEP). Jennifer is also a City of Shoreview Community Center part-time staff person for their service desk, guest services and manager on duty. She heard about the Water Stewards training and opportunity in RWMWD’s Ripple Effect e-newsletter. Jennifer is especially interested in water conservation and groundwater issues.



Engagement in Watershed Partners’ DCROM Team

Back in the early spring of 2020, Sage Passi joined the Developing Culturally Relevant Outreach Materials team (DCROM). This collaborative team arose within Watershed Partners as an initiative to develop a shared vocabulary of plain language stormwater/water quality terms and a set of materials translated

into various languages. As a group of watershed educators from multiple organizations and cities, we began meeting periodically as a team to develop a shared set of resources, including strategies for relationship building, co-creation and best practices for working with diverse communities in the Twin Cities Metro. Initially we wanted to develop a toolkit for engaging with different cultural/racial groups on water and environmental topics. This toolkit could include translated materials, talking points, engagement strategies, relationship building ideas, etc. Through discussions and experience, we realized that connecting with non-English speaking communities, immigrant communities, and other under-resourced communities and translations of existing resources weren't enough. We were hoping to build a Community of Practice.

In July, the DCROM team convened again after participating in an informal discussion with Watershed Partners that focused on Diversity, Equity, Inclusion and anti-racism (DEI) work and how our different organizations can play a part in these efforts. Some of the big themes that emerged from the discussion included 1) how to get organizational leadership and boards to support/direct DEI work, 2) how to demonstrate relevance and walk-the-talk across organizations and 3) Ideas for types of trainings, behaviors, practices and policies that have been effective in different organizations.

We began planning for a Watershed Partners Forum in October 2020. This event incorporated State Demographer, Megan Dayton who presented about current and future statewide demographics, Mark Doneux, Capitol Region Watershed District who discussed the development of their Diversity Strategic Plan and Tammy Schmitz, former MWMO staff person who described one of their successful outreach programs. In December, the DCROM team refocused and set some goals for the upcoming year regarding diversity, equity and inclusion.

These Goals Include:

- 1) Encourage organizations and leadership to recognize that this is a whole-organization issue, not just exclusively for education/outreach/communications.
- 2) Engage consultants who can be helpful for working with whole organizations and providing "outside" perspective.
- 3) Create big-picture strategies for outreach communications focused on DEI.
- 4) More inclusive outreach materials, programming and attendees.
- 5) Increase interest in changing hiring practices to be more equitable.
- 6) Recruit new Board members and CAC members that are representative of the communities they serve.
- 7) Continue to share what our organizations are doing and what's working and what isn't.
- 8) Write and/or amend comprehensive plans to reflect DEI goals.
- 9) Provide and encourage training for staff, boards, and committees.

The DCROM team includes staff from MWMO, Freshwater, Capitol Region WD, EMWREP, the city of Blaine, Riley Purgatory Bluff Creek WD, Coon Creek WD, Anoka SWCD, Nine Mile Creek WD, and RWMWD.

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report February 2021
Date: January 28, 2021

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Communications Program Update – Lauren Hazenson

Communications Strategy

This month we launched the CAC member recruitment campaign and the Stewardship Grant recruitment campaign. Both included coordinated messaging to partners, emailed articles, social media posts and ads. The Stewardship Grant also included an interview video with a past recipient, which has 1,300 views as of January 16th.

We also moved forward on the Wetland A signage project and the Flood Risk Mitigation project. Lastly, a brown bag series for watershed communications staff is set to be launched on Thursday, February 18th.

Publications/ Original Content

The January e-news was published last week and has a 36.8% open rate and a 3.5% click through rate, consistent with previous email publications.

The lake level iframe for program pages was completed this month and was added to the lake pages for Snail Lake, Phalen Lake, Owasso Lake, and Wabasso Lake. West Vadnais Lake information will be included on the Grass Lake page by March 9th.

Social Media (Facebook, Twitter, Instagram)

Numbers as of 1/26 for January:

Audience: 1,573

Impressions/Post Views: 5,793

Engagement (likes, comments, shares): 177