



CITY OF MENDOTA HEIGHTS

NATURAL RESOURCES COMMISSION REGULAR MEETING AGENDA

December 11, 2024 at 6:00 PM
Mendota Heights City Hall
Council Chambers

- 1. Call to Order**
- 2. Roll Call**
- 3. Adopt Agenda**
- 4. Approval of Minutes**
 - a. Approve meeting minutes from the August 8, 2024 Natural Resources Commission Meeting and the October 16, 2024 Natural Resources Commission Work Session.
- 5. Citizen Comment Period (for items not on the agenda)**
- 6. New Business**
 - a. Municipal Separate Stormwater System (MS4) 2024 Annual Report
 - b. Interstate Valley Creek BMP and Stabilization Project Update
 - c. Approve 2025 Meeting Schedule
- 7. Old Business**
 - a. 2025 Natural Resources Commission Workplan
 - b. 2024 Tree Canopy Program Recap
- 8. Staff Announcements**
- 9. Commission Comments**
- 10. Adjourn**



**NATURAL RESOURCES COMMISSION
MENDOTA HEIGHTS CITY HALL
COUNCIL CHAMBERS**

4a.

Wednesday, August 8, 2024, 2024, 6:00 p.m.
Draft Meeting Minutes

The work session meeting of the Mendota Heights Natural Resources Commission was held on Wednesday, August 8, 2024, at Mendota Heights City Hall; 1101 Victoria Curve.

1. Call to Order

Chair Swank called the meeting to order at 6:00 p.m.

2. Roll Call

Natural Resources Coordinator Spreiter called the roll. Commissioners present: Commissioners Husbands, McCaslin, Sheets, Stein, and Swank

Commissioners Absent: Commissioners Fahnhorst, Knosalla and Student Commissioner Trudeau.

Staff present: Natural Resources Coordinator Krista Spreiter and Recycling Coordinator Courtney Selstad.

3. Adopt Agenda

Motion to approve the agenda by McCaslin, second by Stein.

Motion passed 5-0.

4. Approval of Minutes – July 10, 2024 Natural Resources Commission Work Session

Motion to approve the minutes by Sheets, second by McCaslin.

Motion passed 5-0.

5. Citizen Comment Period – No one appeared to address the Commission

6. New Business

a. 2025 Preliminary Budget Recommendation

Natural Resources Coordinator Krista Spreiter requested the Commission review the preliminary Natural Resources 2025 budget and recommend approval to the City Council if it so wishes. At the May 8 and July 10 Natural Resources Commission work sessions, the Commission discussed recommendations for the City's 2025 budget pertaining to Natural Resources. The Commission discussed priority projects as identified in the City's Natural Resources Management Plan (NRMP), identifying projects to be implemented and budgeted for in 2025, as well as projects that have completed the implementation phase, and have moved into the maintenance phase. NRMP priority projects to be included in the 2025 budget recommendations include the Valley Park Pollinator Corridor, the Valley Park Forest Enhancement, and the Rogers Lake Savanna/Forest and Shoreline

Enhancement. Of these, the Valley Park E Forest Enhancement and the Rogers Lake Savanna/Forest and Shoreline Enhancement would begin in 2025. The Valley Park Forest Enhancement – North and the Valley Park – S. Oak/Aspen Knoll projects have been completed, and therefore have been budgeted for under the Natural Resources Maintenance line item. A spreadsheet that itemizes as well as changes the titles of specific line items relating to forestry and tree care was provided for Commission review. The proposed 2025 Natural Resources budget totals \$335,223 not including human resources and commissioner per diem.

Coordinator Spreiter reviewed each item in detail:

	2024 Budget	2025 Budget
Valley Park Pollinator Corridor (Xcel)	\$14,430	\$15,000
Valley Park Forest Enhancement – North	\$34,070	Completed
Valley Park Forest Enhancement – South Central	\$18,437	\$11,183
Valley Park – NW Forest Enhancement	\$21,165	\$10,000
Valley Park – E Forest Enhancement	\$8,235	\$12,252
Valley Park – S Oak/Aspen Knoll Enhancement	\$3,663	Completed
Rogers Lake Savanna/Forest and Shoreline Enhancement		\$34,518
Natural Resource Maintenance	\$40,000	\$37,670
Oheyawahe/Pilot Knob Restoration	\$15,000	\$15,600
Tree Sale	\$10,000	\$10,000
Tree Canopy Program	\$25,000	\$27,000
Tree Removal	\$125,000	\$100,000
Tree Planting		\$10,000
Tree Care (Pruning, Watering, Disease Prevention, etc.)		\$52,000
Totals	\$315,000	\$335,223

Commissioner Stein asked about the Natural Resource Maintenance and whether this amount was sufficient. Coordinator Spreiter stated it is used every year.

Motion to recommend the City Council approve the preliminary budget by Stein, second by Husbands.

Motion passed 5-0.

b. Urban Forest Preservation Ordinance – Preliminary Draft

Coordinator Spreiter asked the Commission to review the revised draft of the Urban Forest Preservation ordinance for recommendation of approval to the City Council.

As part of Goal 1: Policy and Ordinance Review and Development, the Goal 1 Committee along with the Commission has developed a draft of the Urban Forest Preservation Ordinance. The draft was presented to both the City Council and the Planning Commission to receive feedback. These comments were discussed at the July 10, 2024, Natural Resources Commission Work Session. Comments were taken into consideration and some revisions to the draft ordinance have been made and incorporated. The revised draft was provided for Commission consideration. Some of the revisions include:

- For both Forest Alteration Permit and Forest Management Plan requirements, some of the applicability categories were removed, and replaced with the category of 'Projects that require a planning case', as the previous categories would automatically be included in those projects that result in a planning case.
- A minimum of seven (7) total trees per property was added to the threshold of 33% removal

when a Forest Alteration Permit or Forest Management Plan is required.

- The previous formula for calculating tree loss mitigation was replaced with a 75% DSH required replacement when seven (7) or more significant or heritage trees are removed.
- For applicants that propose the removal of less than seven (7) significant or heritage trees, the replacement requirement is one-to-one.
- For applicants that are removing less than ten (10) significant or heritage trees, the applicant is exempt from Forest Management Plan and Escrow requirements, however, the applicant is still subject to tree loss mitigation requirements.

Coordinator Spreiter reviewed potential scenarios for the Commission. Next steps include:

- The Commission can approve the draft as-is.
- The Commission can approve the draft with suggested revisions.
- The Commission can table the item for further discussion.
- The Commission can deny the current draft.
- If approved, the draft would go before the City Council at a regular meeting in September.

Commissioner Husbands asked about the slide showing exemptions. She asked if a permit was required or how would the City know about the request for exemption. Coordinator Spreiter stated since it is more than 7 trees they would need a permit and do the tree mitigation. It is on the honor of the resident to notify the City. Less than 7 trees would not require interaction with the City.

Chair Swank noted if a permit is not obtained prior and it is required the permit fee is doubled. Coordinator Spreiter will need to check if that applies to all permits within the City.

Commissioner Husbands stated she watched the Edina Forester speak and thought that any property without an address was handled in a good manner. Coordinator Spreiter stated if there was a previous building there is an address. It seemed the Edina Ordinance had very high standards and was expensive.

Coordinator Spreiter noted escrow is not returned until the tree mitigation is completed. Trees could be planted by the City on the boulevard or on public land.

Commissioner Stein stated the scenarios were very helpful. He asked if it would occur that a resident would not have enough space for mitigation. Chair Swank stated the trees could be planted on the boulevard or in a nearby park or public land.

Commissioner Sheets noted these are revisions to the Ordinance and included other areas are included as far as invasive species, diseased trees, etc. If residents have diseased, dead, invasive trees these are exempt from the replacement requirements.

Motion to recommend the City Council approve the Urban Forest Preservation Ordinance Preliminary Draft by Husbands, second by McCaslin.

Motion passed 5-0.

C. Marie Park Demonstration Planting

Coordinator Spreiter reviewed Goal 3: Urban Forestry and Restoration Committee of the Commission has been working to implement the Demonstration Hybrid Planting project at Marie Park. The area was

removed of invasive vegetation in the fall of 2023 and seeded with a native grass mix throughout. In 2024, the site was managed to establish the native ground cover that was planted using mowing at strategic growth heights to prevent and suppress invasive species. The next stage in establishment is the planning of 5-7 trees that were chosen for the project of the following species:

- Bur Oak
- White Oak
- Shagbark Hickory
- Chokecherry
- Serviceberry – tree form

The Committee has set a date of September 12, 2024, for a volunteer tree-planting event to accomplish this next step. Commissioners are invited to participate.

The estimated cost for the tree planting is \$1,300 which will be taken from the 2024 Natural Resources Budget – Tree Removal line item.

Commissioner Husbands asked about the word “hybrid” and suggested that could refer to cultivars. Coordinator Spreiter stated that verbiage came from the Natural Resources Management Plan. Commissioner Husbands suggested different language for the project.

7. Old Business – None.

8. Staff Announcements

Coordinator Spreiter announced the Park Celebration starts on August 9 and runs until Sunday, August 11. All events are on the City website. Saturday, August 24 is the Mattress and Box Spring Recycling Collection at Mendakota Park from 9:00 a.m. to 12:00 noon. Fresh Air Fridays is still going on. The Photo Contest and Pledge details are available on the City website.

9. Commission Comments.

Chair Swank thanked Former Commissioner Rachel Quick who welcomed a baby girl into her family.

10. Discussion – None.

11. Adjourn

*Motion to adjourn the meeting by Stein, second by Husbands.
Motion passed 5-0.*

Chair Swank adjourned the meeting at 6:45 p.m.



CITY OF MENDOTA HEIGHTS

NATURAL RESOURCES COMMISSION WORK SESSION MINUTES - DRAFT

6:00 PM

Wednesday, October 16, 2024

1101 Victoria Curve, Mendota Heights

1. Call to Order

Chair Swank called the meeting to order at 6:02 p.m.

2. Roll Call

In attendance: Chair Swank, Vice Chair Knosalla, Commissioners Husbands, McCaslin, Stein, and Student Commissioner Trudeau.

Absent: Commissioner Sheets.

Commissioner Fahnhorst joined at approximately 6:20p.

Staff in attendance: Natural Resources Coordinator Krista Spreiter.

3. Adopt Agenda

Commissioner Stein moved to adopt the agenda. Commissioner McCaslin seconded.

4. Discussion

- a. Goal 1: Ordinance and Policy Development Update and Next Steps

Staff gave a brief update on the proposed Urban Forest Preservation Ordinance and adoption progress.

Commission discussed options for review and development of a next ordinance for recommendation. Commissioner Husbands discussed the importance of development standards for landscaping as a need in the city. Currently the city does not have standards.

Commissioners Knosalla and Stein requested the Commission look at examples from other cities.

Commissioner Stein asked the Commission what they thought was the greatest need.

Chair Swank gave information regarding the Deconstruction Ordinance. Requested Commission begin discussion on such an ordinance as it is a significant way that demolition waste can be kept out of landfills.

Commissioner Knosalla asked if it would be beneficial to partner with other entities and communities in the area. Asked if other cities were working on something similar.

Chair Swank mentioned that her organization recently got a grant from the MPCA. Also spoke about Circularity Centers that offer recycled building material for reuse. Reuse MN is one such organization. Chair Swank suggested that the ordinance may not be appropriate at this time but wanted to start the conversation.

Commissioner Fahnhorst asked what water bodies are considered public waters that would be included in a Shoreland Ordinance. Supports this as a next ordinance, though smaller streams and wetlands would not be considered public waters. Suggested to propose resolution that would include protections for water bodies and then hire a consultant to draft a shoreland ordinance.

Chair Swank suggested working into future budgets an allowance for consultant to compose and walk through ordinance drafting and adoption process.

Staff to research estimate of cost for consultant fee.

Commission discussed definition of wetlands, vs. streams and other water bodies.

Commission agreed that exploring a Shoreland Ordinance for recommendation would be a feasible next step. The Commission would also like to explore a resolution in the interim until the shoreland ordinance is adopted.

b. Natural Resources Management Plan Priority Projects Update

Staff gave an update on the Natural Resources Management Plan priority projects, including current projects, and projects budgeted for 2025.

Commissioner Husbands asked if a plan for Valley Park had been discussed among the Strategic Planning Committee.

Chair Swank stated that the committee had been focused on potential funding sources and exploring interest in a 'friends of' group that would support natural resources in the city, including Valley Park.

c. 2025 Natural Resources Work Plan

Commission discussed Goals for the 2025 Natural Resources Commission Work Plan. Each Goal was discussed with corresponding initiatives.

Goal 2 was discussed. Commissioner Knosalla suggested adding collaboration with Sustainability on Partners in Energy. Chair Swank suggested removing 'develop engagement materials'.

The Commission discussed Goal 1: *Ordinance and Policy Development* Initiatives: Recommend Resolution for Shoreland Protection. Draft a Shoreland Ordinance for recommendation of approval by City Council.

The Commission discussed Goal 3: *Urban Forestry and Restoration*. Commissioner Husbands suggested moving forward with converting turf to native vegetation for identified areas. Commissioner McCaslin suggested using one of the projects as a demonstration plot. Commissioner Knosalla suggested hosting another buckthorn removal event. Commissioner Husbands commented that removal events have failed in the past because the buckthorn grows back so quickly without diligent follow-up treatments. Suggested creating a work plan to restore the public parcel at Dodd and Marie. Commissioner Knosalla suggested creating an engagement event every year. Also suggested combining turf to native conversion project with community involvement event. Commissioner Knosalla suggested keeping '*Host Tree Planting Event*'. Commissioner McCaslin asked if additional emerging pest preparation/education was needed.

The Commission discussed the initiative *Develop a buckthorn removal kit for residents* and what could be included in the buckthorn kit, including doobers, educational materials on strategies and methods for removal, weed wrench, gloves, loppers, snippers, etc. Staff relayed that this initiative could be completed by end of 2024.

Goal 4: *Strategic Planning* was discussed. Commission agreed the initiative *Identify opportunities for Green Steps* advancement is in process and can be removed for 2025. The Commissioner agreed to keep the initiatives *Identify* and *explore funding sources for Natural Resources* and *Explore development of a Natural Resources Management Plan for Valley Park*.

Goal 5: *Sustainability* was tabled.

5. Old Business

5a. Partners in Energy Update

Staff gave an update on the progress and process up until this point of the Partners in Energy Program.

Commissioner Stein announced that the MN Legislature established a Geothermal Planning Grant Program to provide financial assistance to eligible applicant to examine the feasibility of installing geothermal energy systems. Eligible applicants include counties, cities, townships, and the Met Council. Grants will be awarded up to \$150,000. Eligible systems include bored geothermal heat exchanger, groundwater thermal exchange device, and submerged closed loop heat exchanger.

5b. Preliminary Budget Update

Staff gave an update on the current recommended preliminary budget.

6. Staff Announcements

Staff relayed that the November Natural Resources Commission meeting date will have to be rescheduled. The Commission agreed that November 7th would be the best date. The Education and Outreach committee will meet the hour before the regular meeting on the 7th.

7. Commission Comments

Commissioner Husbands would like regular updates from other partner agencies and programs. Also reminded the Commission that the Virtual Environment Commissions Conference is October 22nd, from 6:30-8p. The conference gathers volunteer city commissioners from environment, sustainability, parks and recreation, and Natural Resources Commissions from around Minnesota. The event is hosted by Conservation MN, Green Steps Cities, and Tribal Nations to help bridge connections between communities that are doing conservation work.

8. Adjourn

8:12pm.

Motion made by Commissioner Knosalla, seconded by Commissioner McCaslin.



Natural Resources Commission

Meeting Date: December 11, 2024

Agenda Item: Municipal Separate Stormwater System (MS4) 2024 Annual Report

Item Type: Presentation

Department: Natural Resources

Contact: Krista Spreiter, Natural Resources Coordinator

Action Request:

The Commission is asked to hear the Annual Report given on the city's Municipal Separate Storm Sewer System (MS4) permit and Surface Water Pollution Prevention Program (SWPPP).

Background:

The National Pollution Discharge Elimination System (NPDES) program is a federally mandated program established by the Environmental Protection Agency (EPA) and regulated by the Minnesota Pollution Control Agency (MPCA) to implement and maintain pollution prevention practices for stormwater discharges by permittees. Stormwater discharges associated with MS4s are regulated by the NPDES permit. The MPCA issued a new General MS4 permit in 2020, and the City's application was accepted and coverage was issued under the new MS4 permit by the MPCA on October 8, 2021.

Mendota Heights, as an MS4 owner and permittee, was required to develop a Storm Water Pollution Prevention Program (SWPPP) that incorporates best management practices that reduce pollutant discharges. The SWPPP was developed in 2003, and updated in 2013, and again in 2023 with the new requirements set forth in the 2020 MS4 General Permit. In 2006, the City adopted the Local Surface Water Management Plan (LSWMP) that outlined how the requirements of our SWPPP are to be met and established requirements for land disturbing activities. The plan was then updated in 2018 and adopted by the City Council.

There are six required components in each SWPPP, termed "Minimum Control Measures" for each permit authorizing storm water discharges under the NPDES program:

1. Public Education and Outreach

2. Public Participation/Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff and Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping

The public is encouraged to comment on the City's Stormwater Pollution Prevention Program at any time. The full report can be found on the City's website or requested in-person at city hall.

Fiscal and Resource Impact:

Meeting the goals for the annual permit coverage from the Minnesota Pollution Control Agency are covered separately under the storm water utility fund. Stormwater improvement projects are presented to City Council individually as required.

Attachments:

None



Natural Resources Commission

Meeting Date: December 11, 2024

Agenda Item: Interstate Valley Creek BMP and Stabilization Project Update

Item Type: Presentation

Department: Natural Resources

Contact:

Krista Spreiter, Natural
Resources Coordinator

Action Request:

The Commission will hear a presentation on the status of the Interstate Valley Creek Stabilization and Best Management Practice (BMP) project.

Background:

The City of Mendota Heights has partnered with Dakota County and the Lower Mississippi River WMO to implement the Interstate Valley Creek Stabilization and Best Management Practices (BMP) project. The project was coordinated with the timing of the River to River Greenway trail project, which is planned to begin in May 2025. The purpose of the project is to replace degraded stormwater infrastructure, provide additional stormwater treatment, and restore a wetland to aid in vegetation management, reduce erosion, provide habitat, and restore wetland conditions that existed historically.

As part of the project, a sheet pile weir will be installed just downstream of the wetland north of Marie Avenue and west of Trail Road, allowing the water to be impounded, helping restore historic hydrology to the wetland. The goal of the project is to restore historical water elevations to the wetland, once provided by a historic weir that degraded and was undermined over time.

Stormwater treatment features such as infiltration/filtration basins will be installed as part of the project to help both reduce stormwater inflow to Interstate Valley Creek, and filter and treat stormwater before it enters the creek. Eroded bank repairs and stabilization is planned for two separate reaches along the creek from Marie Creek to the Mississippi River.

As part of the project, the use of heavy equipment and some excavation is necessary to install

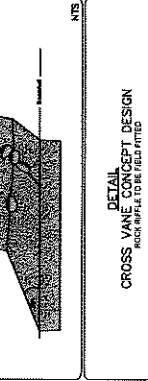
these features and make repairs within Valley Park. The contractor, Fitzgerald Excavating, will be accessing Valley Park from Trail Road, as well as using the city trail from Bluff Circle. Fitzgerald Excavating will be doing the work under the supervision of SEH, Inc., the city's consultant, as well as City and County staff. Construction may begin as early as the week of December 9th, with substantial project completion planned for July 31, 2025.

Fiscal and Resource Impact:

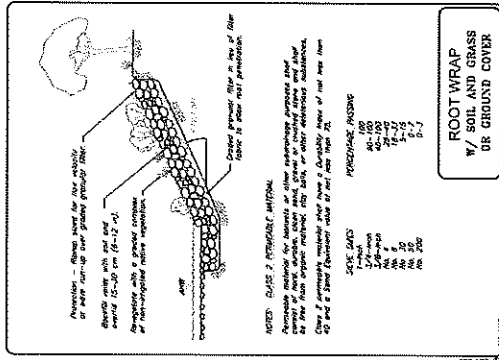
The project is funded by a Clean Water Funding Grant, with a \$100,000 local match provided by the City.

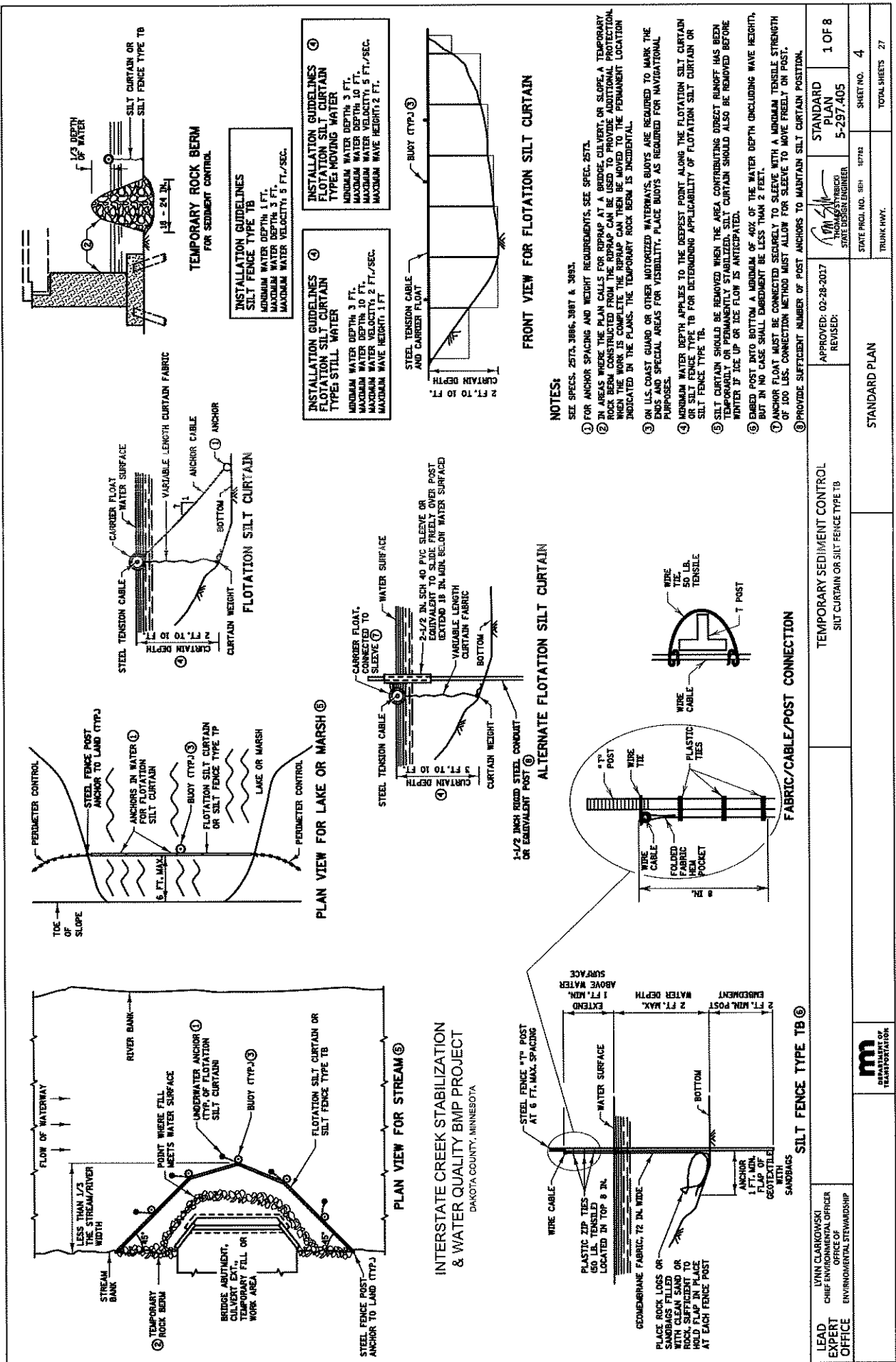
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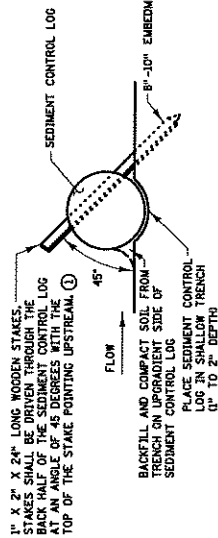
1. 2024_9_26 IV Creek Stabiliation and Water Quality BMP Project_Final Plans



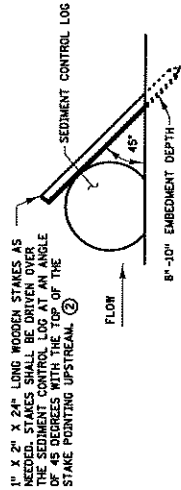
Country/Region	Year/Period	No. of Cases
Algeria	2019	2
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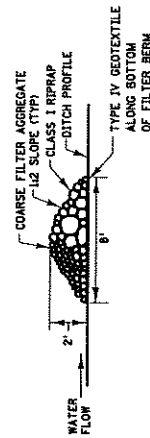


TYPES: STRAW, WOOD FIBER, OR COIR

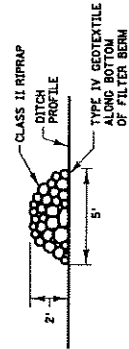


TYPES: WOOD CHIP, COMPOST, OR ROCK

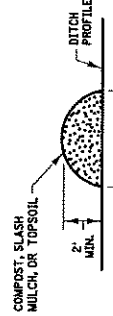
SEDIMENT CONTROL LOGS



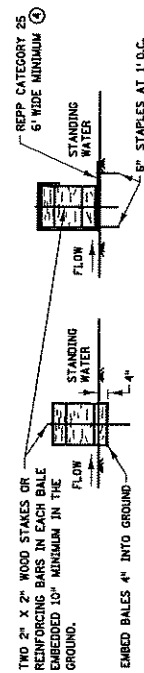
TYPE 3 (ROCK WEEPER)



TYPE 5 (ROCK)
FILTER BERMS



TYPE 1 (COMPOST), TYPE 2 (SLASH MULCH), OR TYPE 4 (TOPSOIL)





EMBEDMENT METHOD REPP (BLANKET) METHOD (ALTERNATE)
BALE BARRIERS ③

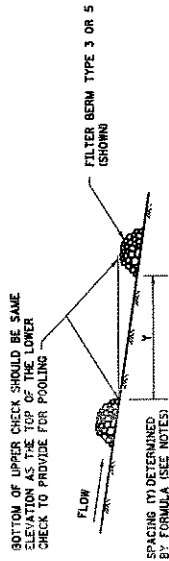
NOTES:

- REPP = ROLLED EROSION PREVENTION PRODUCT. SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3887.
- SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS OR 2' FOR OTHER APPLICATIONS.
- PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
- TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS 16" MAXIMUM. BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
- INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE. PLACE STAKE THROUGH BALE AND BLANKET.

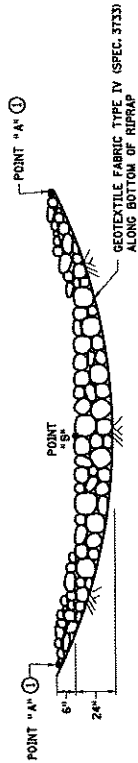
INTERSTATE CREEK STABILIZATION & WATER QUALITY BMP PROJECT

DAKOTA COUNTY, MINNESOTA

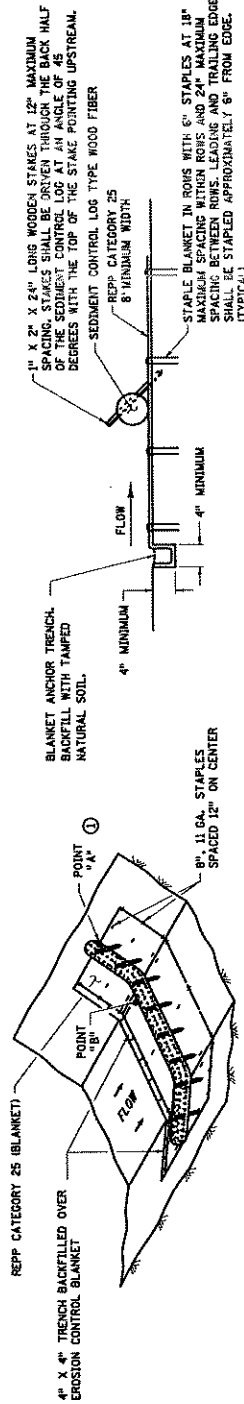
LEAD EXPERT OFFICE	MARNI KARNOWSKI CHIEF ENVIRONMENTAL OFFICER OFFICE OF ENVIRONMENTAL STEWARDSHIP	TEMPORARY SEDIMENT CONTROL FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS	APPROVED: 01-08-2020 REVISED:	 THOMAS J. STABICH STATE DESIGN ENGINEER	STANDARD PLAN 5-297.405	2 OF 8
			STANDARD PLAN			STATE PROJ. NO. BEH 157762
 DEPARTMENT OF TRANSPORTATION						TOTAL SHEETS 27
						TRUNK HWY.



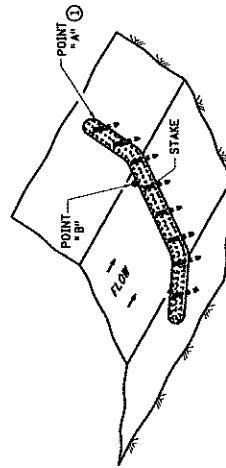
DITCH CHECK SPACING FOR ALL FILTER BERM TYPES



ROCK DITCH CHECKS FILTER BERMS TYPE 3 (ROCK WEEPER) OR FILTER TYPE 5 (ROCK) FOR USE ON ROUGH-GRADED AREAS ONLY FOR USE OUTSIDE CLEAR ZONE 2



SEDIMENT CONTROL LOG TYPE REPP (BLANKET) SYSTEM ③





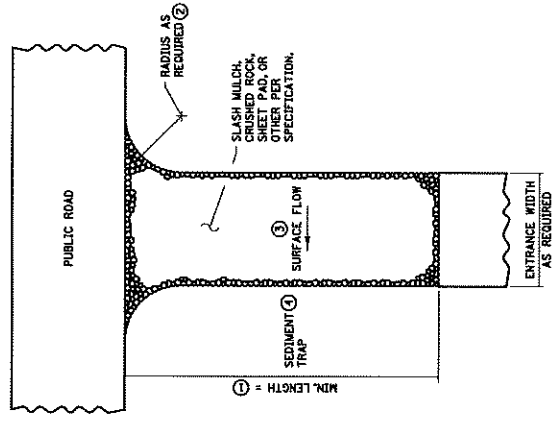
SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST ③ FOR USE ON ROUGH GRADED AREAS

- NOTES:**
- ① REPP = ROLLED EROSION PREVENTION PRODUCT. SEE SPECS. 2573, 3504, 3733, 3886, 3886 & 3889.
 - ② FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH THE ENDS FACING UPSTREAM.
 - ③ APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:

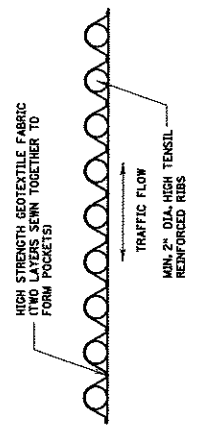
$$\text{APPROXIMATE SPACING OF DITCH CHECKS (FT)} = Y = \frac{\text{DITCH CHECK HEIGHT (FT)} \times 100}{\% \text{ CHANNEL SLOPE}}$$
 - ④ POINT "A" MUST BE A MINIMUM OF 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
 - ⑤ ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT. A 1:6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
 - ⑥ DITCH GRADE 3% - 5% MAX. FLOW VELOCITY 12 FT/SEC.
 - ⑦ DITCH GRADE 1.5% - 3% MAX. FLOW VELOCITY 4.5 FT/SEC.
 - ⑧ DITCH GRADE 1.5% - 3% MAX. FLOW VELOCITY 1.5 FT/SEC.

INTERSTATE CREEK STABILIZATION & WATER QUALITY BMP PROJECT DANFORTH COUNTY, MINNESOTA

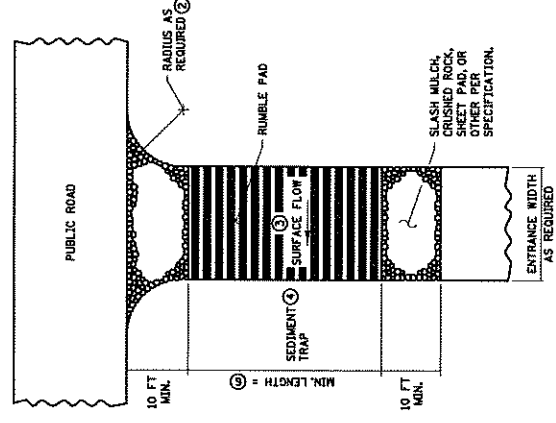
LEAD EXPERT OFFICE	MARNI KARNOWSKI CHIEF ENVIRONMENTAL OFFICER OFFICE OF ENVIRONMENTAL STEWARDSHIP	TEMPORARY SEDIMENT CONTROL DITCH CHECK	APPROVED: 01-08-2020 REVISED:	 MARNI KARNOWSKI STATE DESIGN ENGINEER	STANDARD PLAN 5-297.405	3 OF 8		
 MINNESOTA DEPARTMENT OF TRANSPORTATION		STANDARD PLAN				STATE PROJ. NO. 86H 167782	SHEET NO. 6	TOTAL SHEETS 27



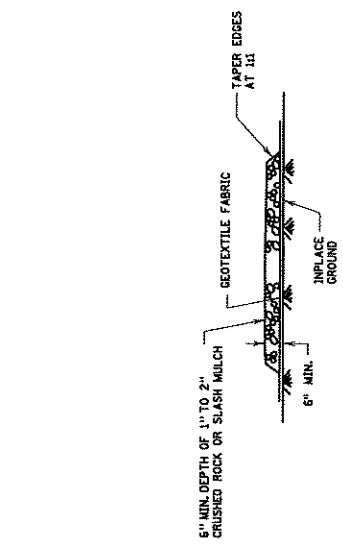
SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT (2)



SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT (2)



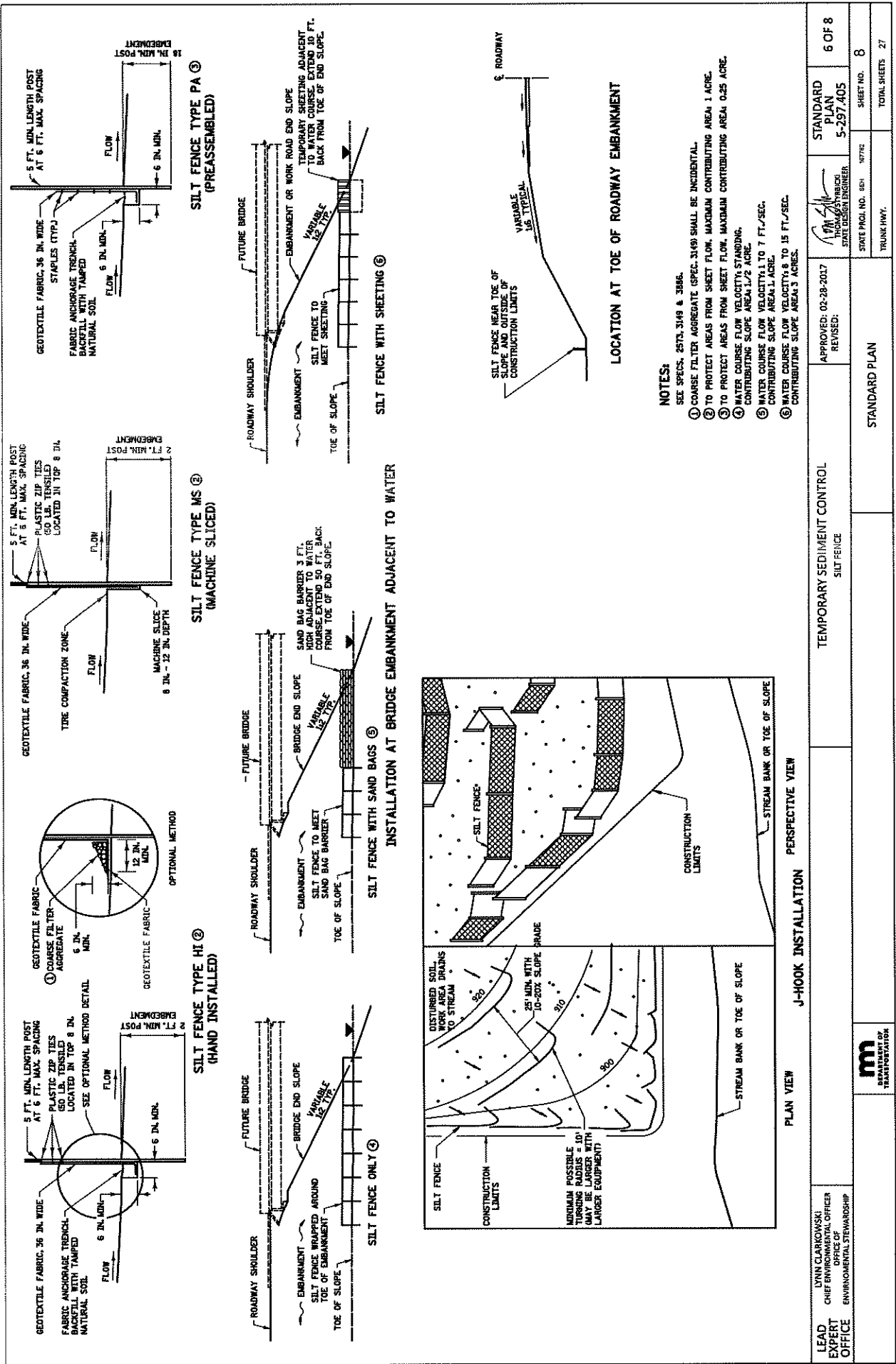
RUMBLE PAD CONSTRUCTION EXIT (2)

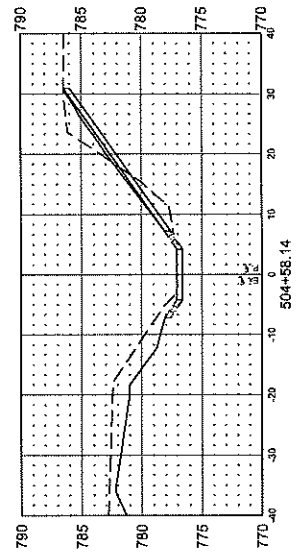


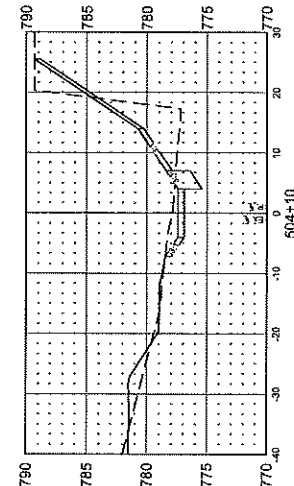
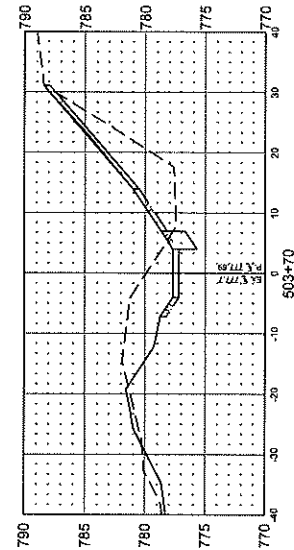
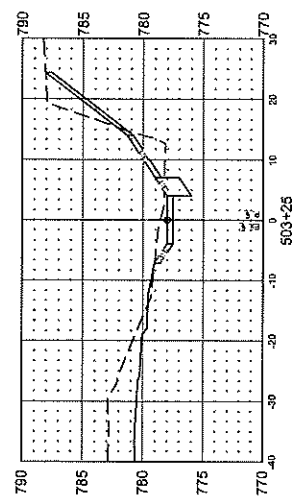
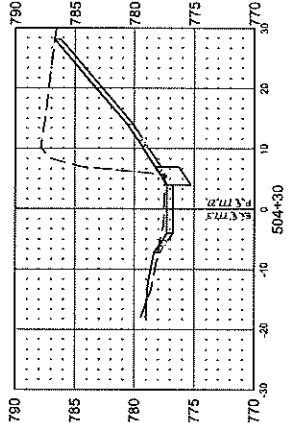
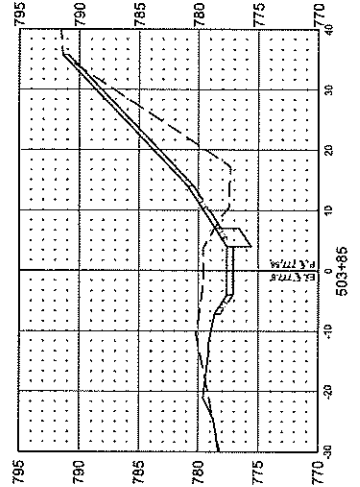
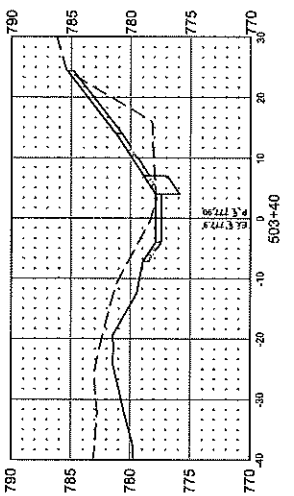
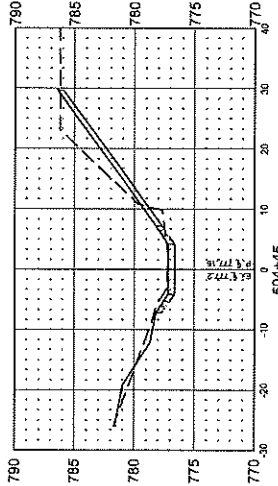
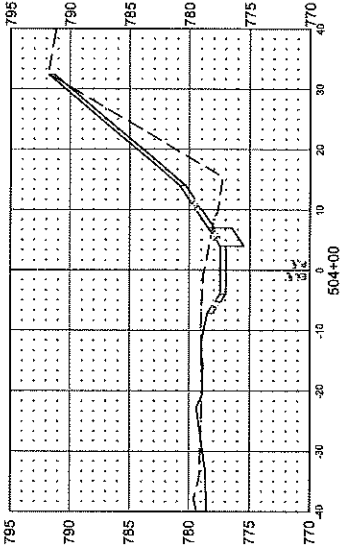
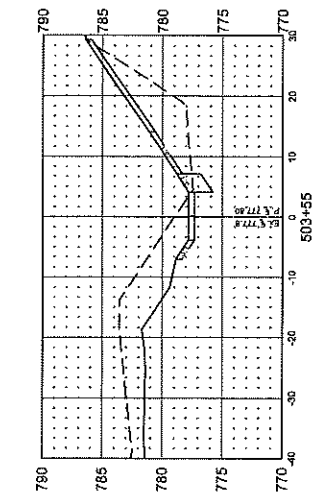
RUMBLE PAD CONSTRUCTION EXIT (2)

- NOTES:**
SEE SPECS. 2573 & 3882.
- MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONS.
 - PROVIDE RADIUS OR WEDGE PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.
 - IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY GRADING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.
 - IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.
 - IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.
 - MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL DRAINAGE. WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.
 - MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF THE EXITS IS QUESTIONED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL SLASH MULCH OR CRUSHED ROCK OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

LEAD EXPERT OFFICE LYNN CLARKOWSKI CHIEF ENVIRONMENTAL OFFICER OFFICE OF ENVIRONMENTAL STEWARDSHIP	TEMPORARY SEDIMENT CONTROL STABILIZED CONSTRUCTION EXIT	APPROVED: 02-28-2017 REVISED:	 THOMAS STYRUD STATE DESIGN ENGINEER STATE PROJ. NO. 56H 19782	STANDARD PLAN 5-297.405	5 OF 8
				SHEET NO. 7 TOTAL SHEETS 27	

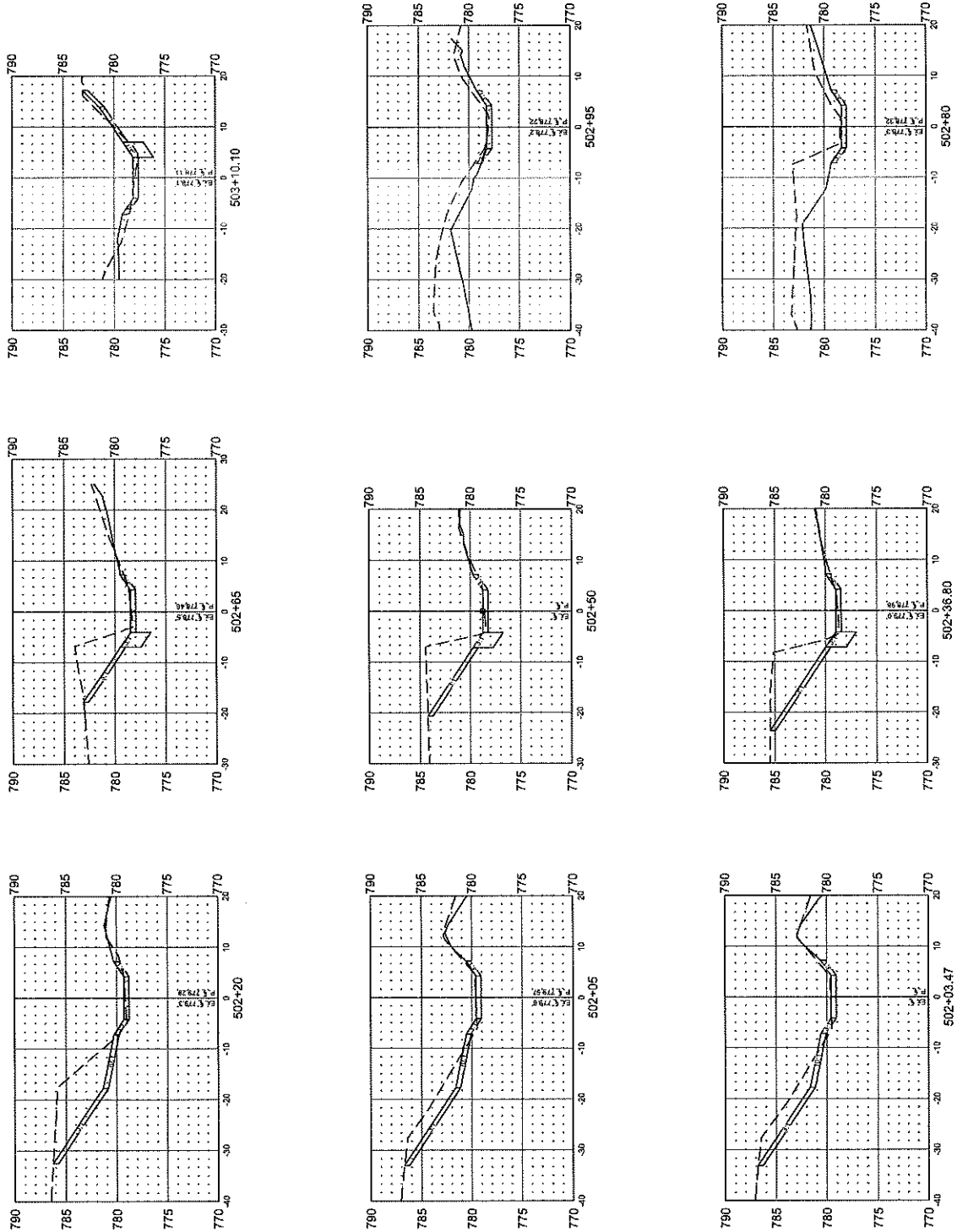






INTERSTATE VALLEY CREEK
503+25.00 - 504+45.00

Sheet No. 26 Of 27 Sheets



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SWPPP SUMMARY/COVER SHEET
THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE REQUIREMENTS OF NPDES PERMIT MN R100091. THIS SWPPP INCLUDES A SUMMARY OF THE PROJECT, A DESCRIPTION OF THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT PLAN FOR THE PROJECT.

LOCATION:	MENDOTA HEIGHTS, MN
LATITUDE/ONSET DATE:	44.09 N 93.13 W
PROJECT DESCRIPTION:	STREAM RESTORATION/STABILIZATION, STORMWATER BMPS CREATION, WETLAND REINSTITUTION
SOIL DISTURBING ACTIVITIES:	GRADING, TEMPORARY EXCAVATION

CONTACTS:
OWNER: Dakota County Forests Wild Parks www.dakotacounty.us
CONTACT: Mike Adams Greenway Senior Project Manager
ADDRESS: 14955 Galata Ave, Apple Valley MN 55124
PHONE: 651-554-5539
EMAIL: mike.adams@dc.gov.us

ENGINEER: SHORT ELLIOTT HENDRICKSON INC. (SEH)
CONTACT: MARK CHRISTENSEN, PE (INK) Project Manager
PHONE: Direct 651-765-2939 Mobile 715-223-3377
EMAIL: mchristensen@sehinc.com
PROJECT NO.: SEH 187782 (DAKOT)

KNOWLEDGEABLE PERSON CHAIN OF RESPONSIBILITY
THE CONTRACTOR SHALL IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL COORDINATE IMPLEMENTATION OF THE SWPPP.

CONTRACTOR	TBD
CONTACT	X
PHONE	X
EMAIL	X

THE CONTRACTOR SHALL ESTABLISH A CHAIN OF RESPONSIBILITY FOR ALL CONTRACTORS AND SUBCONTRACTORS WHO WILL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE SWPPP. THE CONTRACTOR SHALL PROVIDE THE CHAIN OF RESPONSIBILITY TO THE OWNER AND ATTACH TO THE SWPPP PRIOR TO ANY CONSTRUCTION ACTIVITY.

GENERAL SWPPP RESPONSIBILITIES:
THE CONTRACTOR SHALL KEEP THE SWPPP, INCLUDING ALL AMENDMENTS AND INSPECTION AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION.

THE SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY. CONSTRUCTION OPERATIONS, MAINTENANCE, AND/OR REMEDIATION SHALL BE CONDUCTED IN A MANNER THAT DOES NOT CAUSE EROSION, SEDIMENTATION, OR A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.

AMENDMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR AND WILL BE ATTACHED INITIATED, FACILITATED, AND PROCESSED BY THE CONTRACTOR.

ALL BUREAU CHANGES MUST BE DONE BY AN INDIVIDUAL TRAINED IN ACCORDANCE WITH SECTION 2.1.2. CHANGES AND/OR AMENDMENTS TO THE SWPPP SHALL BE IDENTIFIED BY A SPECIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.

BOTH THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR TRANSFER OF THE PERMIT.

LONG TERM OPERATION AND MAINTENANCE
THE OWNER SHALL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM(S).

THE OWNER WILL PREPARE AND IMPLEMENT A PERMANENT STORMWATER TREATMENT SYSTEM(S) MAINTENANCE PLAN.

TRAINING DOCUMENTATION:

PREPARED/DESIGNER OF SWPPP:	MARK CHRISTENSEN
EMPLOYER:	SEH
DATE OBTAINED / REFRESHED:	8/1/2024
INSTRUCTOR(S)/ENTITY PROVIDING TRAINING:	UNIVERSITY OF MINNESOTA

CONTENT OF TRAINING AVAILABLE UPON REQUEST.

THE CONTRACTOR (OPERATOR) SHALL ADD TO THE SWPPP TRAINING RECORDS FOR THE FOLLOWING PERSONNEL:

- INDIVIDUALS OVERSEEING THE IMPLEMENTATION OF, REVISING, AND AMENDING THE SWPPP
- INDIVIDUALS RESPONSIBLE FOR THE CONSTRUCTION OF THE SWPPP
- INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS

TRAINING MUST RELATE TO THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES AND SHALL INCLUDE:

- 1) DATES OF TRAINING
- 2) NAME OF INSTRUCTORS
- 3) CONTENT AND ENTITY PROVIDING TRAINING

THE CONTRACTOR SHALL ENSURE THAT THE INDIVIDUALS ARE TRAINED BY LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER MANAGEMENT AND THE MINNESOTA NPDES CONSTRUCTION STORMWATER PERMIT.

PROJECT SUMMARY:

TOTAL DISTURBED AREA:	9274 AC
PRE-CONSTRUCTION IMPERVIOUS AREA:	0.039 AC
POST-CONSTRUCTION IMPERVIOUS AREA:	0.008 AC
IMPERVIOUS AREA ADDED:	0.000 AC

ID	NAME	TYPE	SPECIAL WATER?	IMPAIRED WATER?	CONSTRUCTION RELATED IMPAIRMENT OR SPECIAL WATER CLASSIFICATION	TMDL
19070400	UNNAMED	WETLAND	NO	NO	N/A	N/A
19090599	U.S. LOCK & DAM 2 POOL	PUBLIC WATER	NO	NO	N/A	N/A
19007900	PICKEREL LAKE	PUBLIC WATER	NO	NO	N/A	N/A
104280	MINNESOTA RIVER	RIVER	NO	YES	YES	YES
103380	MISSISSIPPI RIVER	RIVER	YES	YES	YES	YES

ADDITIONAL BMPS AND/OR ACTIONS REQUIRED:

SEE SECTION 23 OF THE PERMIT AND APPLICABLE TMDL WLAS

WATERBODY	NO WORK DURING
LAKES	APRIL 1 - JUNE 30
NON-TRIBUT STREAMS	MARCH 15 - JUNE 15
TRIBUT STREAMS	SEPTEMBER 1 - APRIL 1

SITE SOIL INFORMATION: (DO NOT INCLUDE ANY INFORMATION FROM THE SWPPP OR ANY OTHER SOURCE)
(SOIL INFORMATION PROVIDED IS FOR NPDES PERMIT INFORMATION ONLY. SOIL INFORMATION WAS OBTAINED FROM THE USGS WEBSITE. THE CONTRACTOR SHALL NOT RELY ON THIS SOIL INFORMATION FOR CONSTRUCTION PURPOSES.)

PROJECT SPECIFIC NOTES:

XX

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE SWPPP:
EROSION AND SEDIMENT CONTROL PLAN SHEETS;
THE EROSION AND SEDIMENT CONTROL PLAN SHEETS;
STORMWATER POLLUTION PREVENTION PLAN SHEETS;
GRADING PLAN SHEETS;
DETAIL PLAN SHEETS;
HYDROLOGIC CLASSIFICATION SHEETS;
PROJECT SPECIFICATIONS;
PROJECT BID FORM.

SOIL NAME:	HYDROLOGIC CLASSIFICATION:
SPILLVILLE LOAM	9B
CHETEK SANDY LOAM	9
QUAM SILT LOAM	CO
UDORIENTS, WET	NA
HANRICH LOAMY SAND	A
COLD OIL LOAM	9B
ANTICIPATED RANGE OF PARTICLE SIZES	X

RELATED REVIEWS & PERMITS:
EPA REGIONAL NPDES PERMIT, ENDANGERED OR THREATENED SPECIES, ARCHAEOLOGICAL, LOCAL, STATE, AND FEDERAL REVISIT PERMITS.

AGENCY:	TYPE OF PERMIT:
MINNR	PUBLIC WATERS PERMIT
USACE	NATIONWIDE 27

IMPLEMENTATION SEQUENCE:
THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SEQUENCE. THE ENGINEER MAY APPROVE ADJUSTMENTS TO THE SEQUENCE AS NEEDED.

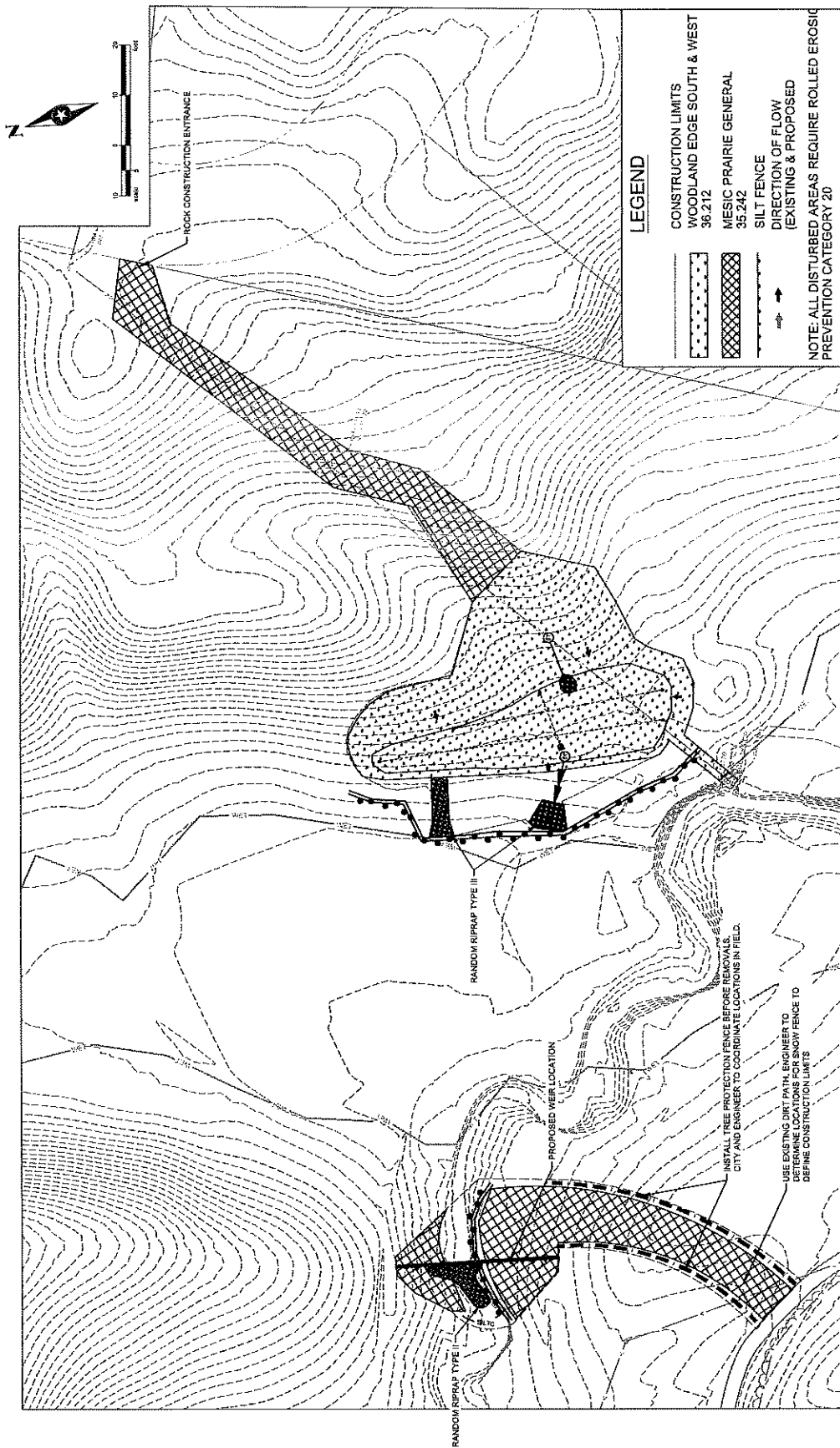
1. INSTALL ROCK CONSTRUCTION ENTRANCES(S)
2. INSTALL PERMETER CONTROL AND STABILIZE DOWN GRADIENT BOUNDARIES
3. INSTALL INLET PROTECTION ON EXISTING CATCH BASINS
4. COMPLETE SITE GRADING
5. INSTALL UTILITIES, STORM SEWER, INLET PROTECTION, CURB & GUTTER PAVING
6. COMPLETE FINAL GRADING AND STABILIZE DISTURBED AREAS
7. AFTER CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY EROSION CONTROL, REMOVE BMPS, AND RE-STABILIZE ANY AREAS DISTURBED BY THEIR REMOVAL
8. INSTALL FILTRATION MEDIA

INTERSTATE CREEK STABILIZATION & WATER QUALITY BMP PROJECT

DAKOTA COUNTY, MINNESOTA

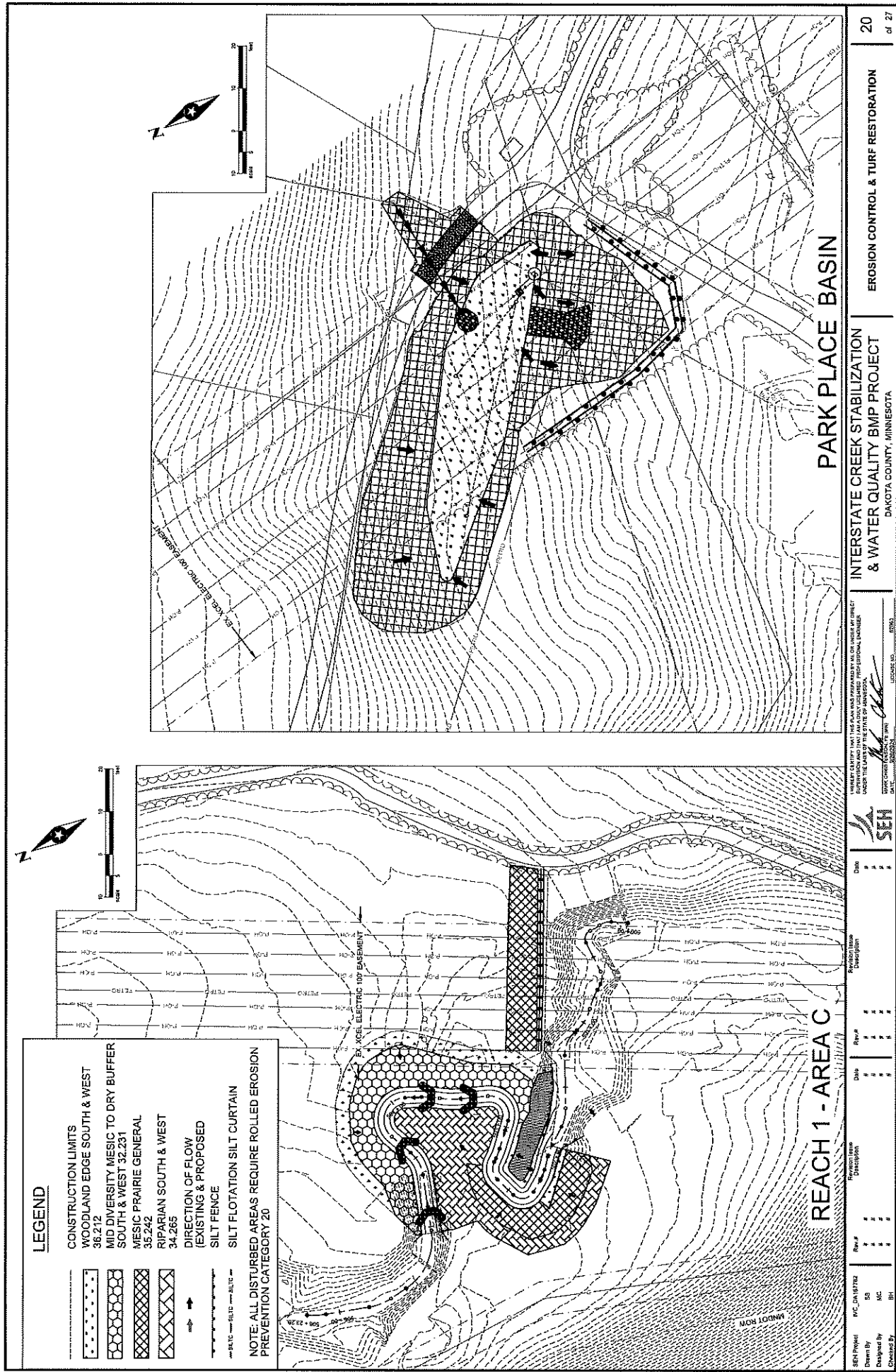
STORMWATER POLLUTION PREVENTION PLAN

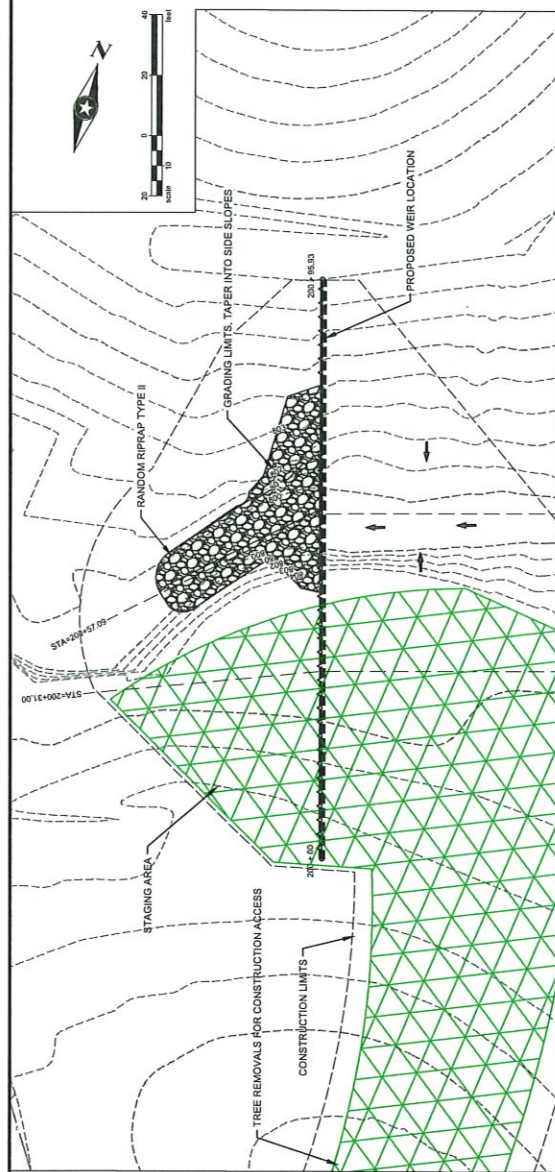
22 of 27



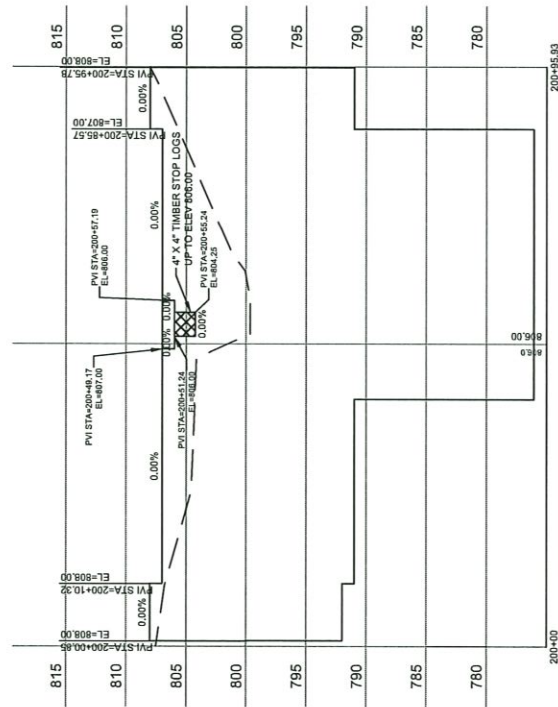
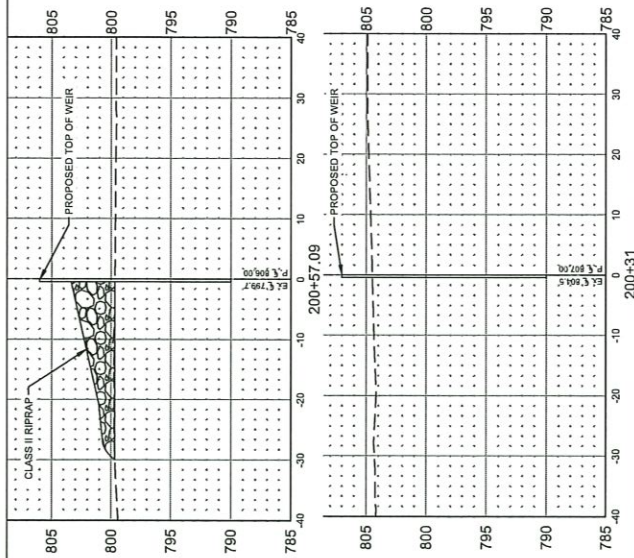
VALLEY PARK BASIN

SEH Project: NC-DA-187792 Drawn By: SS Designed By: MC Checked By: BH				Revision: 10/20/2024 2:22 PM Date: 10/20/2024 Rev: 1 Description:				SEH 10/20/2024 2:22 PM 10/20/2024 2:22 PM 10/20/2024 2:22 PM 10/20/2024 2:22 PM				INTERSTATE CREEK STABILIZATION & WATER QUALITY BMP PROJECT DAKOTA COUNTY, MINNESOTA				EROSION CONTROL & TURF RESTORATION 21 of 27			
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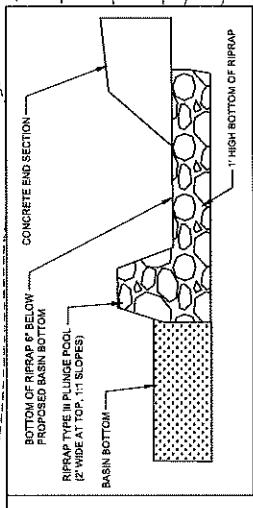
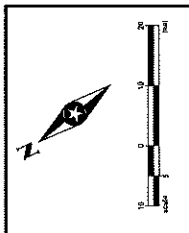
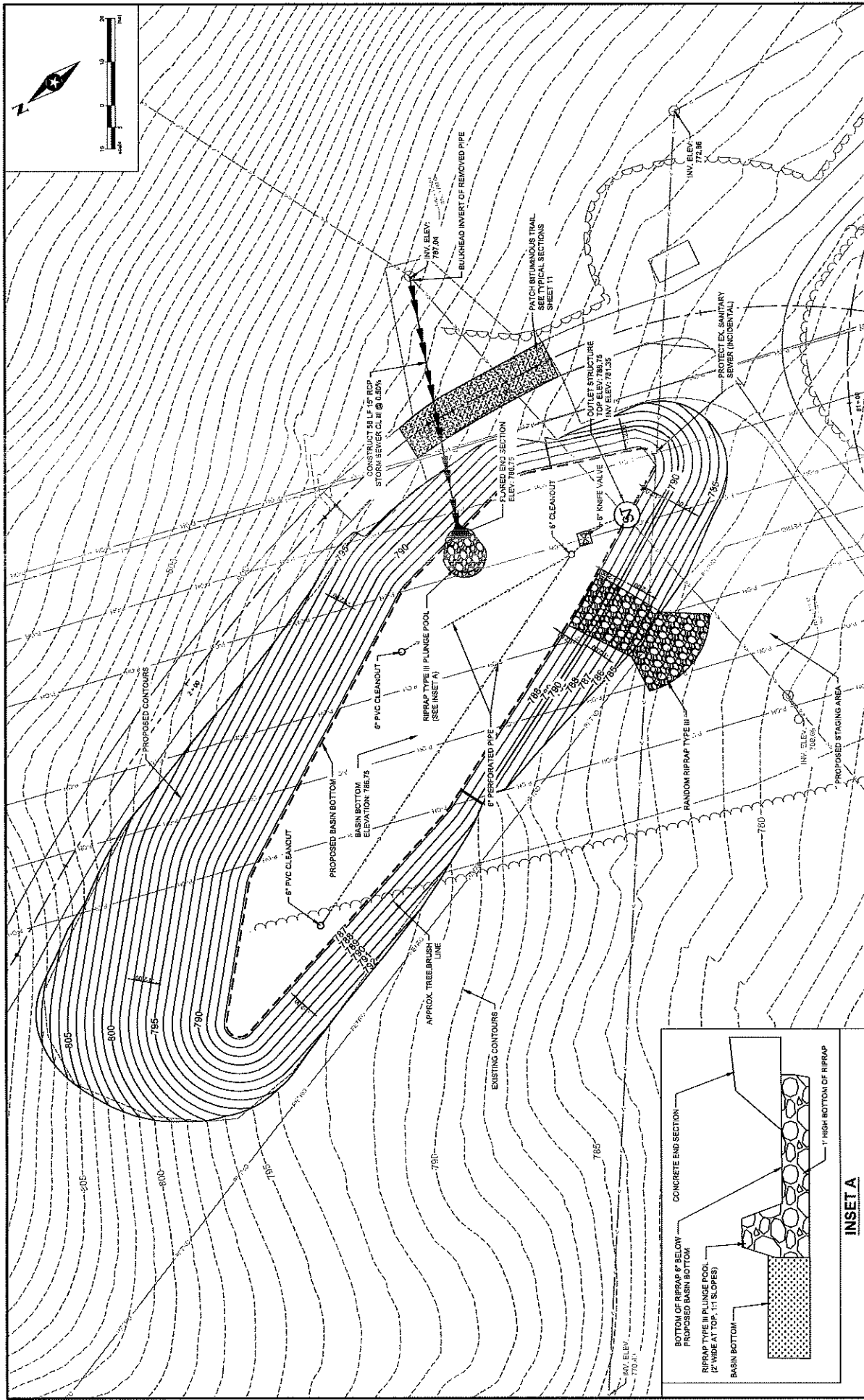




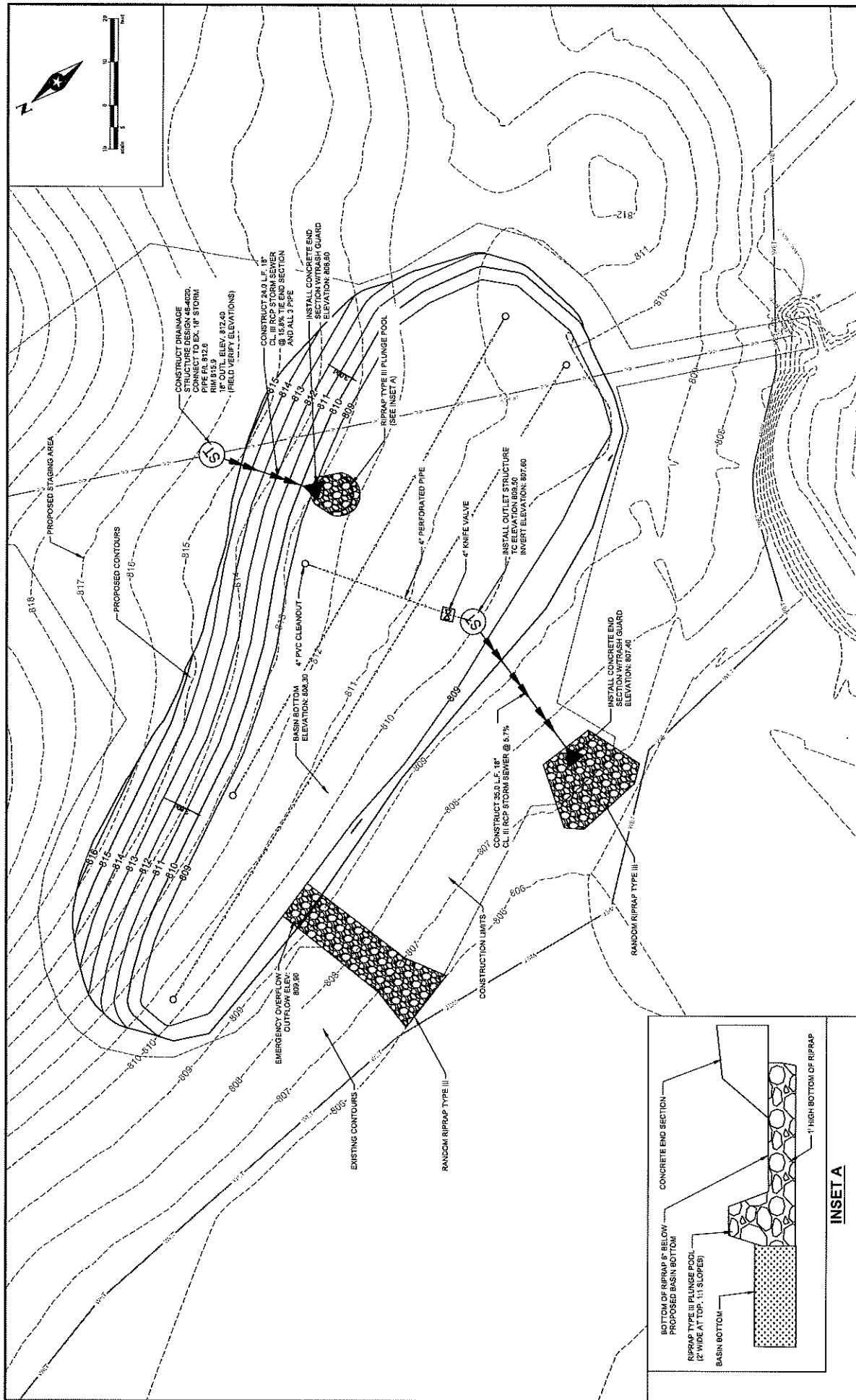
WEIR CONSTRUCTION PLAN

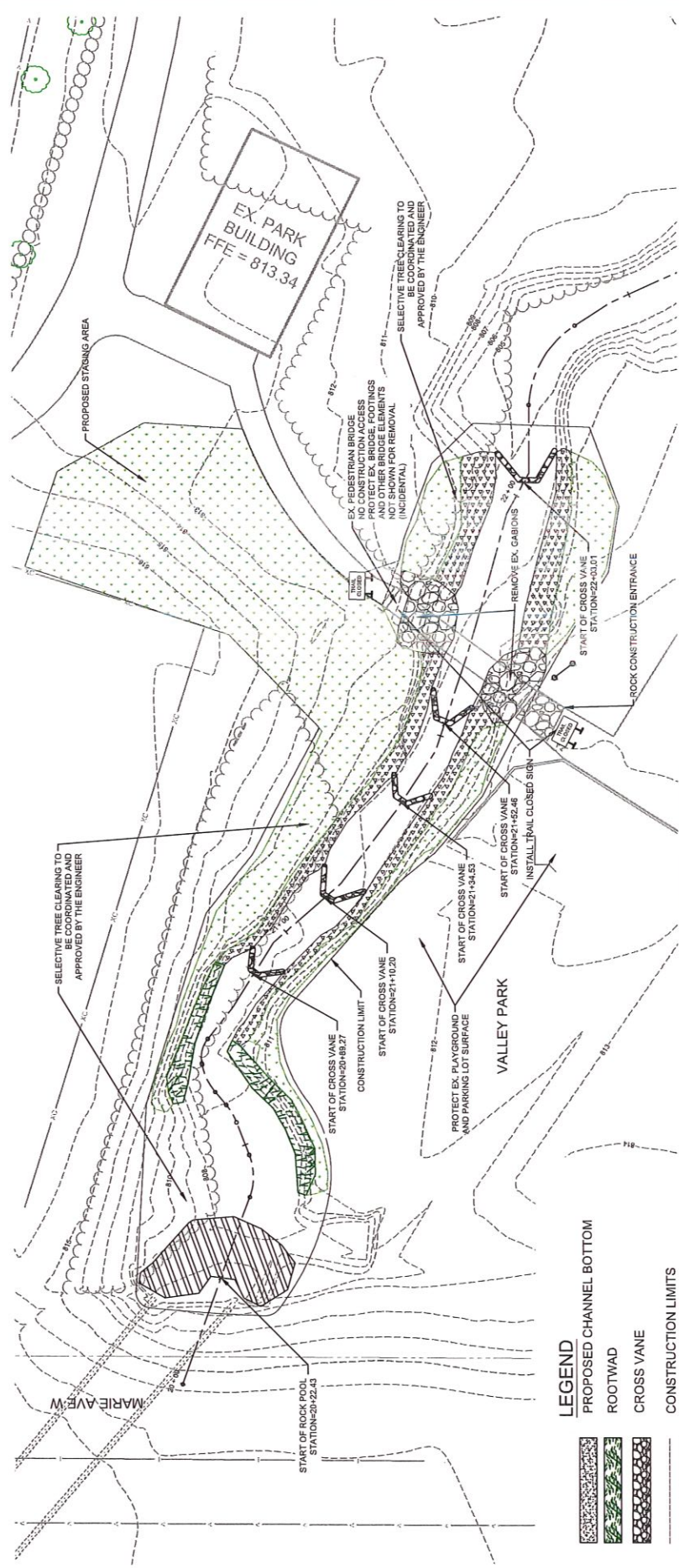


								I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.	
Plan Revision Issue Description			Sheet Revision Issue Description			Date			
	Rev #	Date		Rev #	Date				
INC_048782	#	#		#	#				
Drawn By SS	#	#		#	#				
Designed By MC	#	#		#	#				
Checked By BH	#	#		#	#				
						PROJECT CHIEF ENGINEER PER UMN NAME: [Signature] DATE: 05/02/2023 CONTACT NO: 62463			



INTERSTATE CREEK STABILIZATION & WATER QUALITY BMP PROJECT DAKOTA COUNTY, MINNESOTA		PARK PLACE BASIN GRADING PLAN 17 of 27	
SHEET NO. 18772 Drawn By: SS Checked By: MC	Revision Number: 1 Description:	Date:	Scale:
DESIGNER: SEH PROJECT NO.: 18772 DATE: 10/20/2014 PROJECT LOCATION: 104th St & Interstate 35, St. Louis, MO			



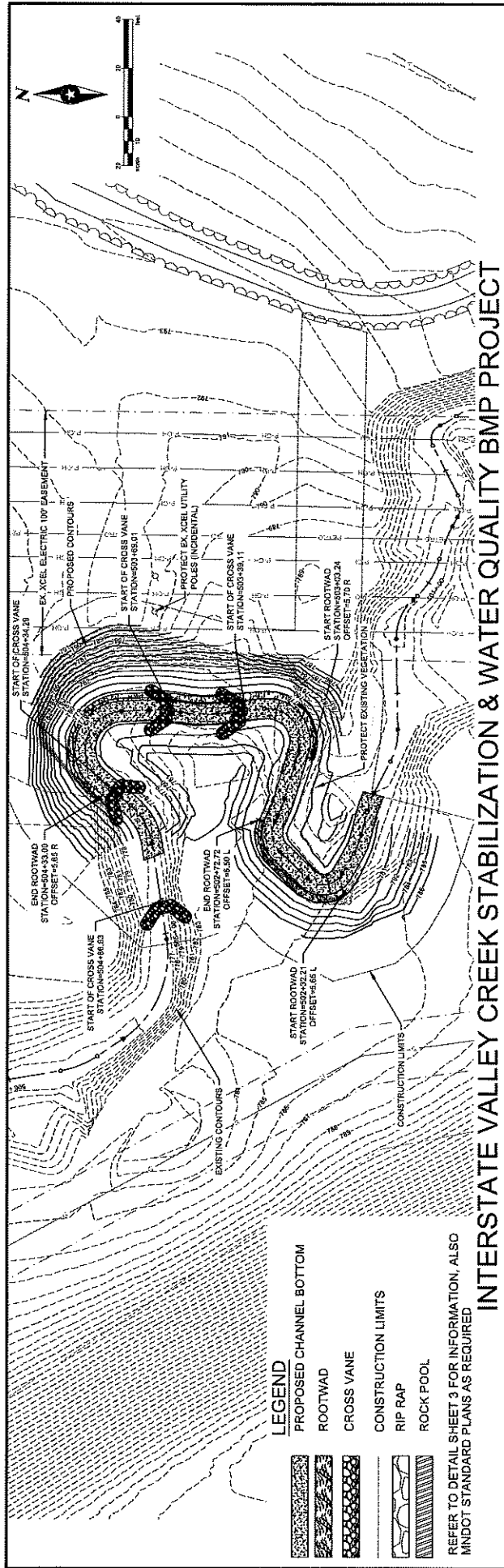


NOTE: SEEDING AREA SHOWN IS APPROXIMATE AND FOR DISTURBED AREAS BEYOND REACH 2 CONSTRUCTION IMPROVEMENTS. LIMIT AREA TO MINIMUM POSSIBLE

- LEGEND**
- PROPOSED CHANNEL BOTTOM
 - ROOTWAD
 - CROSS VANE
 - CONSTRUCTION LIMITS
 - RIP RAP
 - ROCK POOL
 - ROOT WRAP
- REFER TO DETAIL SHEET 3 FOR INFORMATION, ALSO MNDOT STANDARD PLANS AS REQUIRED

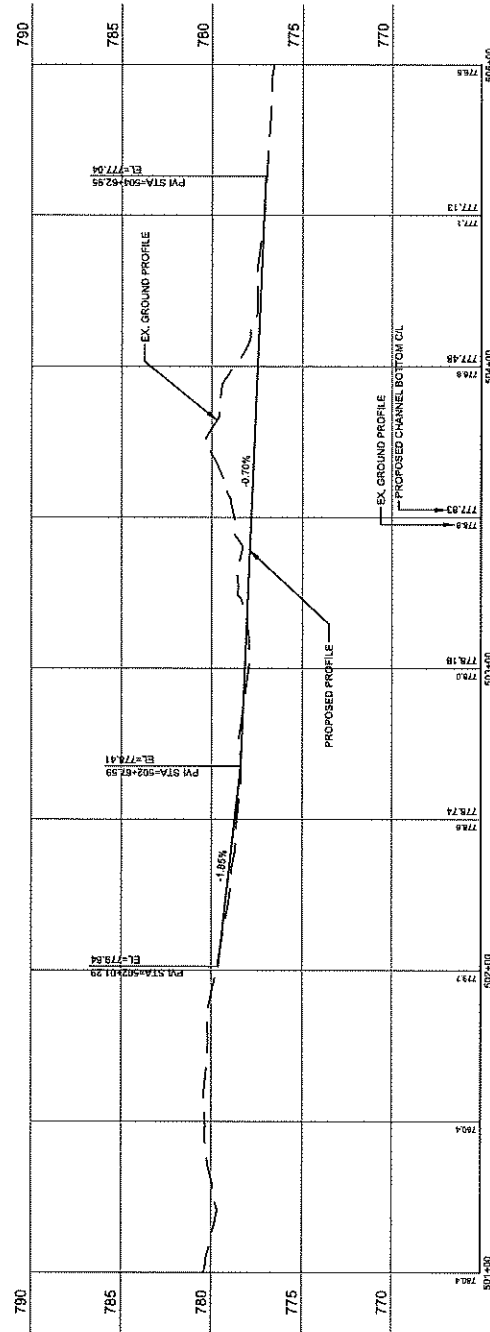
INTERSTATE VALLEY CREEK STABILIZATION & WATER QUALITY BMP PROJECT

SEH Project Drawn By Designed By Checked By	157782 SS MC BH	Revision Date	Rev. #	Revision Issue Description	Project Name Location	Date	SEH Sustainable Engineering & Habitat 10000 Highway 100 Minneapolis, MN 55426 Phone: 612.338.1000 Fax: 612.338.1001 www.sehinc.com	INTERSTATE CREEK STABILIZATION & WATER QUALITY BMP PROJECT DAKOTA COUNTY, MINNESOTA	REACH 2 CONSTRUCTION PLAN AND EROSION CONTROL	15 of 27



INTERSTATE VALLEY CREEK STABILIZATION & WATER QUALITY BMP PROJECT

REFER TO DETAIL SHEET 3 FOR INFORMATION, ALSO
MNDOT STANDARD PLANS AS REQUIRED



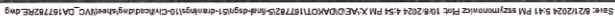
SEH Project		10/7/22	Rev. #		Date	Revision		Description	
Drawn By	SG								
Designed By	MC								
Checked By	SH								

INTERSTATE CREEK STABILIZATION
& WATER QUALITY BMP PROJECT

DAKOTA COUNTY, MINNESOTA

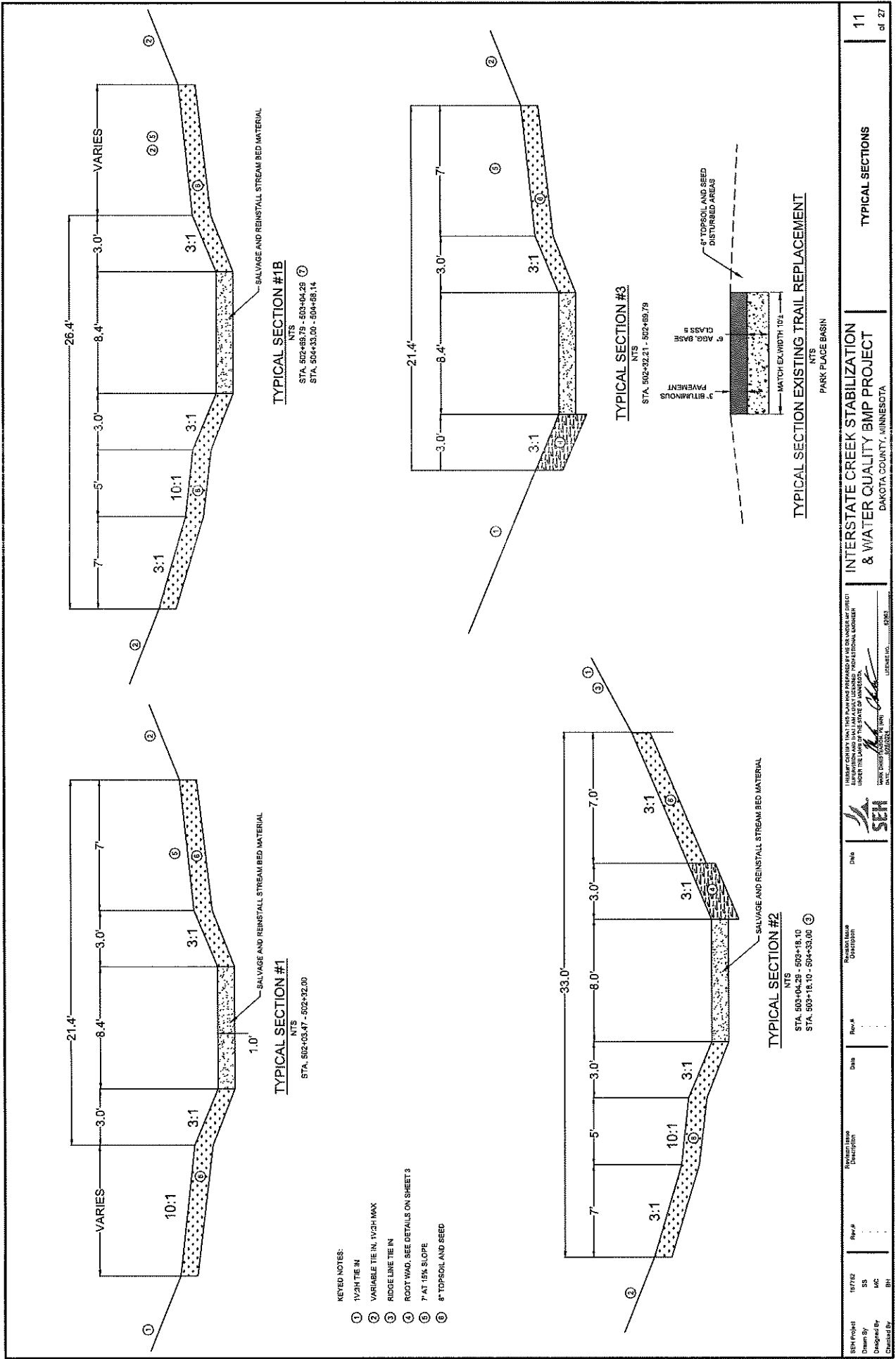
REACH 1 CONSTRUCTION PLAN AND PROFILE

14
of 27



**INTERSTATE CREEK STABILIZATION
& WATER QUALITY BMP PROJECT**
DAKOTA COUNTY, MINNESOTA

13 of 27



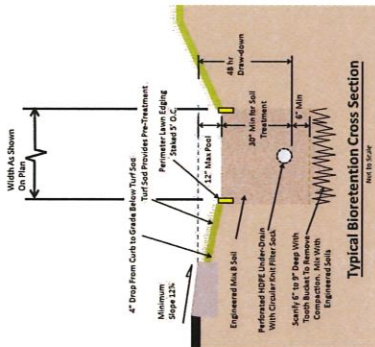
1) All work must comply with Dakota County Low Impact Development Standards. (See www.dakotaswcd.org)

2) The Dakota County Soil and Water Conservation District (SWCD) is providing quality control and field verifications of the bioretention installations. Call the SWCD at (651) 480-7777 to schedule field verifications prior to burying any work and/or installing any concrete, mulch and/or plant materials.

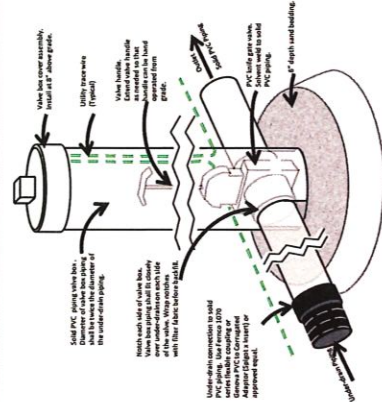
- 1) All work must comply with Dakota County Low Impact Development Standards. (See www.dakotacounty.org)
- 2) The Dakota County Soil and Water Conservation District (SWCD) is providing quality control and field verifications of the borestation installations. Call the SWCD at (651) 496-7777 to schedule field verification. The SWCD will be available to provide technical assistance and answer questions.
- 3) The project area must be staked out and marked to keep all construction materials, equipment and material stockpiles out of the proposed borestation areas.
- 4) Borestation practices shall not be excavated until the contributing drainage areas with exposed soils have been fully stabilized and bluminate base course installed on contributing pavement areas. Downspout drainage areas to prevent runoff from entering the excavated cell or into the work area. Do not use borestation cells as temporary sediment basins or allow construction runoff into the cell.
- 5) Deliver sample materials outside for SWCD prior approval. Prior to beginning the installation, sufficient material quantities shall be on-site to complete the installation and stabilize exposed soil areas without delay.
- 6) Cells must be taken to avoid contamination of engineered soils with sediment, in-fill or topsoil during and after installation. Materials must be segregated.
- 7) Installation with dry soil conditions is critical to prevent smearing and compaction. Schedule work for installation during periods of rain or snow. The SWCD will be available to provide technical assistance and answer questions.
- 8) Stabilization of perimeter slopes with turf sod must be completed before the next construction phase. Turf sod and roots in low paths shall be secured with at least 6 stakes per roll to prevent undermining or movement of the sod.
- 9) Do not leave infiltration areas and/or perimeter slopes exposed overnight. Secure the site from risk of precipitation damages at the end of every work day. In the event of rain, take the site from risk of stormwater away from the work area and temporarily cover of all exposed soils with filter fabric or impermeable sheeting.
- 10) SWCD field observation of excavation and soil placement is required. Notify SWCD prior to digging. SWCD backfills with both bucket for cell excavation to avoid compaction or smearing of soils. (Do not use silt sifter for excavation within the cell.) Use tooth bucket to scuff (rip) underlying soils to 6" deep to remove any smearing and promote permeability. Use excavator bucket to place materials. Construction equipment must not be allowed into the basin. Leveling and final grading within the cell must be completed by hand.
- 11) The side slopes of the borestation cell shall be 3H:1V or flatter. Lawn edging shall be installed along the perimeter of the cell. The perimeter of the cell shall be secured with filter fabric or impermeable sheeting and secured per the manufacturers' installation requirements or 6 ft. O.C. whichever is greater.
- 12) Replacement Engineered Soil shall be Minnesota Stormwater Manual 4.1, 2 Mix B: Enhanced Filtration Grade 2 Level Filter Composite. The material supplier shall provide documentation that the composite has been sampled and tested as required by the Soil of Testing Assurance (STA) Program of the United States Environmental Protection Agency (USEPA). The material supplier shall provide a copy of the STA report to the SWCD. SWCD shall NOT CONTACT ANY TOPSOIL OR FILTER AGGREGATE WITH FINES.
- 13) Performed under-drains shall be skidged single well HDPE with circular knit polymeric filament filter sock per ASTM D6707-01. MbiBot 3733 Type I learn seam non-woven fabric shall not be used.
- 14) Notify the SWCD prior to placing any mulch or installing any plantings. The SWCD shall field check elevations, soil compaction and permeability. Notify Depending on conditions observed, compaction removal by hand may be needed prior to placing mulch and/or final plantings.
- 15) Keep borestation operations off-site by practicing stormwater inflow until vegetation is well established in the cell and all up gradient areas have been stabilized and impermeous surface cleaned of construction sediment.
- 16) Installed sods and plantings require a total of 1" of water per week and active weed management until well established. Vegetation shall be maintained and watered during the summer months.

j) Perimeter turf mowing, trash removal, active weed management, occasionally replacing plants, adding shredded mulch and other ongoing maintenance that is normally provided to maintain typical planted landscapes should be provided for the rain gardens.

- Preinjure, cut, remove, active weed management, occasionally replacing plants, adding breeding, muck removal, active weed management that is normally provided to maintain planned landscapes should be ordered for the ralignants.
- The estimated average life of ralignants when properly conserved and maintained ranges from 10 to 30 years or more before major reconstruction may be needed. Plant health and the drain down time of the temporary surface pool are both key indicators of successful ralignant performance and the life span of the ralignant. The life span of the ralignant may be extended by the use of the following techniques. The use of the following techniques may be listed below calling for technical assistance. Contact the Dakota County Soil and Water Conservation District at (851) 480-7777.
- The underdrain valve is to remain in the full open position for the first growing season. After plant growth fully resumes in the 2nd season, close the valve and observe the drain down time of the temporary surface pool following a storm event. Adjust the valve opening as needed to achieve the desired drain down time. The drain down time of the temporary surface pool should not be necessary unless the plant health shows signs of stress (e.g., Yellow leaves are a common sign of excessively wet conditions).
- A total of 1" inch of water per week is required to establish the plantings for the first 2 growing seasons. (Water may be a combination of natural precipitation or provided). Further watering is not needed after the plants have established.
- Minimize the use of weeder used and soil applications in the areas adjoining to the ralignant because both are damaging to the plants, soil permeability as well as the biological processes within the soil that break down the pollutants as stormwater passes through the ralignant.
- Do not use sediment for soil from disturbed adjacent areas to enter into the ralignant. Early spring pavement sweeping to remove accumulated sediment before it is washed into the ralignants is highly recommended. If early sweeping is not feasible, consider temporarily blocking the curb opening to keep sediment on the pavement until sweeping can be completed. All excess sediment within the call must be removed each spring.
- Using the ralignants for winter snow storage is highly discouraged due to the potential for damage to the plant materials and compaction of the engineered soil matrix. Preliminary snow fences for the ralignants are highly recommended. Ralignant materials should be replaced each spring.



Typical Bioretention Cross Section



5710

- [illegible]

Under-drain Valve & Valve Box

1100 220th Street West, Suite 102
Farmington, MN 55024
Phone: 651.480.7777

Revision Date 4/26/17

Rev.#	Revision Issue Description	Date
10/7/82	SEH Project	
SS	Drawn By	
MC	Designed By	
BH	Checked By	

I HEREBY CERTIFY THAT THIS PLAN 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.

Mark Christenson

MARK CHRISTENSON, P.E. (MIN)
DATE: 8/26/2024 1:07 PM 673673

Revision Issue Description	Date	SEH
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Revision Issue Description		Rev.#	Date	Rev.#
SEH Project	157762			
Drawn By	SS			
Designed By	MC			
Checked By	BH			

P



Natural Resources Commission

Meeting Date: December 11, 2024

Agenda Item: Approve 2025 Meeting Schedule

Item Type: Action Item

Department: Natural Resources

Contact:

Krista Spreiter, Natural
Resources Coordinator

Action Request:

The Natural Resources Commission is asked to approve the proposed 2025 commission meeting dates.

Background:

The 2025 calendar for the Natural Resources Commission includes the following proposed meeting dates, at 6pm. Regular meetings will take place in the City Council Chambers. The Commission will meet in the Large Conference Room for Work Sessions. The public is welcome to attend all meetings.

- JANUARY 8 – REGULAR MEETING (NO MEDIA COVERAGE)
- FEBRUARY 12 – WORK SESSION
- MARCH 12 – REGULAR MEETING
- APRIL 9 – WORK SESSION
- MAY 14 – WORK SESSION
- JUNE 11 – REGULAR MEETING
- JULY 9 – WORK SESSION
- AUGUST 14 (THURSDAY) – WORK SESSION
- SEPTEMBER 10 – REGULAR MEETING
- OCTOBER 8 – WORK SESSION
- NOVEMBER 13 (THURSDAY) – WORK SESSION
- DECEMBER 10 – REGULAR MEETING

Fiscal and Resource Impact:

None.

Attachments:

None



Natural Resources Commission

Meeting Date: December 11, 2024

Agenda Item: 2025 Natural Resources Commission Workplan

Item Type: Action Item

Department: Natural Resources

Contact:

Krista Spreiter, Natural
Resources Coordinator

Action Request:

The Commission is asked to discuss the draft of its 2025 Work Plan, and accept the draft as is or with amendments.

Background:

The Commission uses an annual work plan to accomplish its goals, as well as aid in accountability, resource allocation and proceed through commission priorities. A work plan may consist of goals, priorities, tasks, programs, or projects that the Commission would like to implement in 2025. Resources, monetary cost, timeline, and benefits of each identified item should be considered.

The Commission is asked to use this time to discuss the existing items in the draft, make edits to the draft, or add additional items if it so wishes. The 2025 Work Plan should be completed and accepted by the Commission at this meeting or its regular meeting in January.

Fiscal and Resource Impact:

None.

Attachments:

1. 2025 Work Plan

Natural Resources Commission Work Plan 2025		Timeline			
Goal	Initiative	Q1	Q2	Q3	Q4
Goal 1: Ordinance and Policy Development	Draft a Shoreland Ordinance for recommendation of approval by City Council	X	X	X	X
Goal 1: Ordinance and Policy Development	Review Planning Review Checklists to offer natural resources considerations		X	X	
Goal 1: Ordinance and Policy Development	Explore deconstruction policy for city-owned buildings and facilities			X	X
Goal 2: Education and Outreach	Create and hold a community engagement event	X			
Goal 2: Education and Outreach	Collaborate with Sustainability Committee to implement Partners in Energy Action Plan	X	X	X	X
Goal 2: Education and Outreach	Develop educational topics and event schedule for Earth and Arbor Day Celebration	X	X		
Goal 2: Education and Outreach	Host site tour of natural resources site			X	X
Goal 3: Urban Forestry and Restoration	Complete a turf-to-native vegetation conversion project within a city park		X	X	
Goal 3: Urban Forestry and Restoration	Host tree planting event				X
Goal 3: Urban Forestry and Restoration	Support implementation of EAB Bonding Grant		X	X	
Goal 4: Strategic Planning	Identify and explore funding sources for Natural Resources	X	X	X	X
Goal 4: Strategic Planning	Explore development of a Natural Resources Management Plan for Valley Park	X	X		
Goal 5: Sustainability	Implement Partners in Energy Action Plan	X	X	X	X
Goal 5: Sustainability	Explore deconstruction policy for city-owned buildings and facilities			X	X
Goal 5: Sustainability	Host residential energy saving education event			X	X



Natural Resources Commission

Meeting Date: December 11, 2024

Agenda Item: 2024 Tree Canopy Program Recap

Item Type: Presentation

Department: Natural Resources

Contact: Krista Spreiter, Natural Resources Coordinator

Action Request:

The Commission is asked to hear a presentation and summary of the 2024 Tree Canopy Program.

Background:

The proposal of a residential and/or commercial shade tree program was brought to the commission for discussion in 2023, and approved by the Commission in January of 2024. The City entered into an agreement with Tree Trust Landscaping, LLC to provide residents and commercial property owners with a full-service tree purchasing and planting program in 2024. For the subsidized cost of \$185 for residents and non-profit property owners, and \$259 for commercial property owners, accepted applicants received a high-quality, 10-gallon tree or trees suited for local conditions and our changing climate to be planted within their private property. Applicants were accepted on a first-come-first serve basis with priority given to properties that lost a tree(s) due to Emerald Ash Borer, properties located within an Environmental Justice Area (MPCA's Environmental Justice Areas), or those located within a High Relative Heat Export area within Mendota Heights (Spring only). During the fall application process, no priority was given due to the number of trees left for purchase.

The program included:

- A site consultation with City Staff on the best location for the new tree
- Utility locate coordination prior to planting
- Transportation of the tree and all planting materials provided by Tree Trust Landscaping Services
- Proper planting, mulching, and watering at the time of planting, provided by Tree Trust Landscaping Services

- A high-quality, 10-gallon container tree, watering bag, tree protection, and mulch to be placed at the time of planting

Options included:

- Blue Beech
- Hackberry
- Kentucky Coffee Tree var. Espresso
- River Birch
- Redbud (Minnesota Strain)
- Bi-color Oak

Participants were required to enter into a maintenance agreement with the City upon acceptance, assuming responsibility for watering and all tree care after planting, including removal if needed, and all costs associated with tree maintenance of the tree in the foreseeable future. Trees provided are guaranteed for one year.

During the spring planting, 26 trees were ordered and planted through the program, with a one tree maximum allowed per property address, and priority was given to those that qualified for one of the three priority categories.

During the fall planting, 65 trees were ordered and planted. The priority categories were not implemented, and the maximum number of trees per address was increased to two. The remaining trees available (44) were planted in City parks as part of the City's Emerald Ash Borer Bonding Grant project.

Fiscal and Resource Impact:

The cost of the program, \$25,000, was paid through the City's Tree City fund.

Attachments:

None