

Upper Rum River

Natural Resource Improvement Grant Agreement for Project Installation, Operation and Maintenance

Project Owner and Location:

City outlot immediately east of 3840 225th Lane NW

Name City of St. Francis Attn: Paul Carpenter, Public Works Director	Address 23340 Cree St NW St. Francis, MN 55070	Phone 763-235-2304	Email pcarpenter@stfrancismn.org	
Project Location:	1			
Address		Watershed		

THIS AGREEMENT is made and entered into by and between the City of St. Francis ("OWNER") and the Anoka Conservation District, a Minnesota Special Purpose Unit of Government with powers set forth in Minnesota Statutes 103C ("ACD").

WITNESSETH:

WHEREAS, Owners own property located <u>east of 3840 225th Lane and adjacent to that address</u> (Project Location); and

WHEREAS, Owner and ACD have a mutual interest in natural resources improvement or protection, specifically including improving the quality and reducing the volume of stormwater runoff to the Rum River; and

WHEREAS, the Owner has applied to the ACD for at Natural Resource Improvement Grant, and the ACD Board has approved to install a <u>curb cut rain garden</u> (Project);

WHEREAS, the Owner wishes to accept the Natural Resources Improvement Grant, comply with ACD grant policies, install the project, and provide ongoing maintenance for the project life;

NOW, THEREFORE, in consideration of mutual covenants herein, Owner and ACD agree as follows:

1. Responsibilities

1.1. Responsibilities of the parties are summarized in Exhibit A (Statement of Work), Exhibit B (Operations and Maintenance Guidelines), and Exhibit C (Project Design).

2. Project Effective Life

2.1. The Project Effective Life is the period during which the Project is expected to function and achieve natural resource goals and during which the owner is expected to perform Project operations and maintenance. The Effective Life for this Project is <u>10 years</u> after the Project Completion Date.

3. Project Completion Date

- 3.1. Project will be installed by the date specified in the Scope of Work. Expenses after that date are not eligible for grant payment or as grant match unless approved by ACD.
- 3.2. Project Completion Date, for the purpose of determining the start date of the Project Effective Life, will be evidenced by a Project Close Out form signed by ACD.

4. Term

- 4.1. This Agreement shall commence when executed by both parties.
- 4.2. This Agreement shall remain in effect during the Effective Life of the Project.



- 4.3. ACD may terminate this Agreement with seven days notice in the event of insufficient funds, factors that ACD deems compromise the Project's cost effectiveness toward public benefits, or for other reasons at the ACD's sole discretion.
- 4.4. The Owner may terminate this Agreement with seven days notice. The Owner is responsible for their portion of costs, as described in Exhibit A (Statement of Work), incurred through the date of cancellation and additional costs to complete work started but not completed prior to cancellation.

5. Grant Payments

- 5.1. ACD will issue grant payments for eligible Project expenses as described in Exhibit A (Statement of Work). The manner in which payments will be made is:
 - Direct payment: ACD will directly pay invoices for eligible Project expenses to contractors or vendors.

6. Owner Payments

- 6.1. Owner will issue payments to ACD as follows:
 - 6.1.1. None. The Owner is not responsible for payments to cover project costs.

7. Project Financial Management

- 7.1. ACD and the construction contractor may execute change orders as necessary.
- 7.2. Expenses for ACD staff time to perform grant administration, project development, design/engineering, and construction management in excess of those anticipated (Exhibit A) shall be the sole responsibility of ACD.

8 Project Performance

- 8.1. If the Project is installed per the Statement of Work and Project Design and fails to perform as intended under normal operational and environmental conditions, ACD will provide Design modification guidance and seek funding to assist with the installation of a Project repair. Owner(s) agrees to cooperate with ACD throughout this process.
- 8.2. In no case shall the ACD provide financial assistance for the reapplication of a practice that was removed by the Owner during its effective life without consent of the ACD, for a practice that was not installed per the Design, or that failed due to improper operations and maintenance.

9. Ownership and Maintenance

- 9.1. Owner, and their respective successors and assigns, shall have the full and sole responsibility for the operation, maintenance, and repair of the Project. Should the Project fail to function over its Effective Life due to Owner's failure to comply with this agreement, the Owner shall pay to ACD the lesser of 100% of the cost to rehabilitate or refurbish the Project to its Design performance, install a project of equivalent water quality benefit elsewhere as determined by the ACD, or up to 150% of the total amount of financial assistance provided.
- 9.2. If Owner fails to maintain the Project according to Exhibit B Operation and Maintenance Plan after 30 days' written notice to Owner from ACD, ACD or its contractor may complete the maintenance and the Owner shall reimburse ACD for full cost of the work. ACD will notify the Owner by certified mail of the intent to complete maintenance.
- 9.3. In the event that the Project integrity is compromised due to reasons beyond Owner's control, Owner will immediately notify ACD. Owner(s) is not liable for financial assistance received if the failure was caused by reasons beyond the Owner's control, or if alternative conservation practices are applied at Owner's expense that provide equivalent protection of soil and water resources as determined by ACD.

10.	Prevailing Wages
	10.1. Prevailing wages DO NOT need to be paid for construction of this project because
	10.1.1. The Project does not use state funds.



- 10.1.2. ☐ The total estimated cost of completing the project is less than \$2,500 and only one trade or occupation is required to complete it.
 10.1.3. ☐ The total estimated cost of completing the project is less than \$25,000 and more than one trade or occupation is required to complete it.
 10.2. ☐ Prevailing wages DO need to be paid for construction of this project. Contracts for state projects or using state funds, including cost share projects, are subject to the prevailing wages as established by the Minnesota Department of Labor and Industry (Minnesota Statutes 177.41 to 177.44 and corresponding Rules 5200.1000 to 5200.1120). Specifically, all contractors and subcontractors must pay all laborers and mechanics the established prevailing wages for work performed under the contract. Failure to comply with the aforementioned may result in civil or criminal penalty.
 10.3. The party that hires the installation contractor (Contracting Authority) for the Project is: ☐ ACD ☐ Owner
 10.4. The Contracting Authority is responsible for ensuring the provisions of the provailing wage law.
- 10.4. The Contracting Authority is responsible for ensuring the provisions of the prevailing wage law are met, if applicable. These duties include:
 - 10.4.1. Ensure the contract between the Contracting Authority and contractor(s) performing construction work specifically states prevailing wage rates, prevailing hours of labor, and hourly basic rates of pay. The Contracting Authority shall incorporate into its proposals and all contracts the applicable wage determinations for the contract along with the contract language provided by the commissioner of labor and industry to notify the contractor and all subcontractors of the applicability of MN Statute sections 177.41 to 177.44. The contract must also provide that the Contracting Authority shall demand, and the contractor or subcontractor shall furnish, copies of any or all payrolls not more than 14 days after the end of each pay period. The payrolls must contain all the data required by MN Statute section 177.30. For complete rules and requirements see MN Statutes 177.41 to 177.44 and corresponding MN Rules 5200.1000 to 5200.1120.
 - 10.4.2. Ensure the ACD receives copies of the assurances, such as payroll records, received from the contractor to prove that the prevailing wage law is met. ACD will not issue future grant payments, and may require return of grant funds already paid, if these documents are not provided or if there is a violation of the prevailing wage law by the contractor.

11. Assurances and Liability

- 11.1. Owner attests that they are the owner of record for the Property and that Owner has the authority to enter into this agreement and that all other entities with real interest in the Property have provided a written project concurrence to move forward with the Project.
- 11.2. Ensure the construction contractor is licensed in the state of MN and holds general liability insurance of no less than one million dollars per occurrence. At the option of the ACD, the contractor may be required to provide a performance pond in an amount equal to anticipated construction costs.
- 11.3. Owner(s) agrees to indemnify, defend, and hold harmless the ACD from all present and future claims that may arise from the installation, operations and maintenance of the Project located on the Property.

12. Site Access and Signage

12.1. ACD or its partners or contractors are granted access to the Property and may bring others to the Property, at reasonable times and with prior notice to Owner, for construction,



- maintenance, or to view the Project. This paragraph does not create any right of public entry onto Owner's property except as allowed by the Owner.
- 12.2. ACD may enter onto the Property to complete routine inspections of the Project at reasonable times without prior notice to or approval from Owner. ACD representatives will attempt to inform Owner (if present) of the inspection upon arrival.
- 12.3. Owner agrees to allow ACD to place and maintain interpretive or accreditation signage at the Project site.

13. Publicity and Education

13.1. Owner(s) acknowledges and agrees that ACD may distribute project information such as, but not limited to, project cost, location, design specifications, benefits, photos, and landowner name for promotional and educational purposes.

14. Property

Project ID:

14.1. If title to this land is transferred to another party before expiration of the Project Effective Life, it shall be the responsibility of the Owner(s) to inform ACD of the transfer and facilitate communication between ACD and the new owner with the goal of perpetuating Project operations and maintenance.

15. Audit Disclosure and Retention of Record

15.1. Owner agrees to make available to representatives of ACD and of the State of Minnesota, for the purpose of audit examination pursuant to Minn. Stat. § 16C.05, any books, documents, papers, and records of the Owner that are pertinent to the provision of services hereunder. The Owner further agrees to maintain all such required records for the greater of six (6) years after Project Installation date, or the life of the project.

16. Dispute Resolution

- 16.1. Any and all disputes arising under, pertaining to or touching upon this Agreement, or the statutory rights or obligations of either party hereto, shall, if not settled by negotiation, be subject to non-binding mediation before an independent mediator. Notwithstanding the foregoing, any party may seek preliminary injunctive or other judicial relief if such action is necessary to avoid irreparable damage during the pendency of the proceedings described in this Section.
- 16.2. Any demand for mediation shall be made in writing and served upon the other party to the dispute, by certified mail, return receipt requested, or by personal service. The demand shall set forth with reasonable specificity the basis of the dispute and the relief sought.
- 16.3. The mediation hearing will occur at a time and place convenient to the parties in Anoka County, Minnesota, within thirty (30) days of the date of selection or appointment of the mediator. Mediation or the waiver of mediation by both parties shall be a condition precedent to arbitration, the filing/serving of any lawsuit, or any other legal action. Mediation shall be conducted by a qualified neutral mediator selected by mutual agreement of the parties. If the parties cannot mutually agree upon a mediator within 14 days of notice under this section, the parties will promptly select a mutually acceptable mediation provider entity, which entity shall designate a mediator who is a licensed attorney with general knowledge of contract law and who has no ongoing relationship with either party.
- 16.4. Each party shall bear its own costs in the mediation. The parties shall share equally the fees and expenses of the mediator.
- 16.5. The law of the State of Minnesota shall govern all questions as to the validity, performance and enforcement of this Agreement. This Agreement shall be interpreted according to the laws of the State of Minnesota. All proceedings regarding this Agreement and project will be venued in the State of Minnesota's 10th Judicial District, Anoka County District Court.

17. Counterparts

Project ID:	City of St.	Francis outlot Rain	Garden at 22	25th Lane NW, 2024



17.1. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all such counterparts together shall constitute one and the same instrument.

18.	Entire	Agreement
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- 18.1. This agreement includes the following, which are incorporated by reference.
 - 18.1.1. Exhibit A (Statement of Work),
 - 18.1.2. Exhibit B (Operations and Maintenance Plan), and
 - 18.1.3. Exhibit C (Project Design).
- 18.2. Any modification or cancellation of this agreement shall be in writing and signed by both parties.
- 18.3. Any written notice provided under this Agreement will be sent to the following recipients:

OWNER:	ACD:
Name: City of St. Francis, Public Works Director	Anoka Conservation District
Address1: 4058 St. Francis Blvd NW	1318 McKay Drive NE, Suite 300
Address2: St. Francis, MN 55070	Ham Lake, MN 55304

CITY OF ST FRANCIS		ANOKA CONSERVATION DISTRICT	/
	Signature	Jem Jud N	Signature
,	Title	VICE CHAIR	_Title
	Date	06/17/2024	_Date



EXHIBIT A

STATEMENT OF WORK

PROJECT: City of St. Francis outlot Rain Garden at 225th Lane NW, 2024

TO THE AGREEMENT BETWEEN The City of St. Francis and the Anoka Conservation District

This Statement of Work describes work that the Owner will perform pursuant to the Agreement. All activities specified and detailed herein shall be performed in accordance with the Agreement, ACD Policy, and applicable federal and state laws and regulations and local ordinances.

SCOPE OF ACTIVITY

A. Summary of Work: This project is a curb cut rain garden on the city outlot adjacent (to the east) to 3840 225th Lane. Work must be completed in a manner consistent with the Project Agreement.

B. Project Location:



C. Location photo (looking south):





- D. Activity Timeline: The Project must be installed between Agreement execution and June 30, 2025.
- E. Eligible Expenses: Materials and labor consistent with the Design.
- F. Ineligible Expenses: Expenses incurred prior to grant approval are ineligible. Expenses not consistent with the Design. Aesthetic components without natural resources benefits. Others per ACD or grant policy.

G. Responsibilities

		Responsibility	
Task	Stipulation	City	ACD
Project design/plan	Design/plan must be developed by a qualified professional in accordance with funding source design specifications.		X
Approve project design		X	X
Secure all permits	Anticipated permits needed: City right of way permit		X
Utilities coordination	ACD shall lead, and the city shall assist with, utility moves necessary to complete the Project.	X	Х
Secure and pay installation contractor(s) and materials	ACD will select contractor and execute construction contract.		X
Oversee and approve installation	ACD will provide day-to-day construction oversight. City to approve construction before final contractor payment.		Х
Pay for labor, materials, & other construction expenses			Х
Project closeout	Signed record plan, prevailing wage documentation, IC134, project close out form		Х
Comply with operations & maintenance requirements for the life of the project.		х	
Complete routine project inspections and provide maintenance guidance.			X
Comply with ACD Cost Share Policy		Х	Х

ESTIMATED PROJECT COST RESPONSIBILITIES

	RESPONSIBILITY (%)		
ELEMENT	CITY	ACD*	
Administration/ Project Development	0%	100%	
Design/Engineering/Construction Management	0%	100%	
Construction	0%	100%	

^{*}Funds through ACD include State grant funds and matching funds from the Upper Rum River Watershed Management Organization, of which the City is a paying member.

APPLICABLE SPECIFICATIONS

H. The project must be installed in accordance with the Project Design. Deviations or substitutions require the approval of the ACD



Exhibit B - Operation & Maintenance Plan

Operations and Maintenance Guidelines for Rain Gardens

Curb cut rain gardens are a cost effective stormwater practice capable of providing infiltration and capturing pollutants. This document describes important tasks that should occur on a regular basis to ensure the success of the rain garden. Neglected maintenance leads to more severe problems that are more difficult to correct.

	Frequency			Equipment Needed	
Task	Year 1 Year 2 Year 3+				
Watering Turf Grass Seed	Keep continuously moist during germination & establishment.			Water supply; hose and sprinkler, or soaker hose	
Watering Plugs and Shrubs Ensure 1" of water per week, either through rainfall or irrigation.	Weekly	During drought stress		Water supply; hose sprinkler or soaker hose	
Watering Turf Grass Seed					
Weeding All vegetation that was not planted as part of the project should be removed.	Every 2-3 weeks	Monthly	2-4 times per year as needed.		
Empty Rain Guardian Pre- treatment Chamber Remove all litter, debris, and accumulated sediment from the curb cut inlet and Rain Guardian pretreatment chamber. Detailed instruction sheet attached.	Every 1-4 rainfalls, depending upon site conditions.		Flat shovel, trash receptacle		
Replace Vegetation Replant similar species in the event original vegetation expires.	If needed.		Trowel, plants		
Refresh Mulch Maintain 2, and not more than 3", of mulch covering over planted areas, with priority on areas without dense plant cover.	Approximately every 3 rd year.		Rake, mulch, wheel barrow		
Autumn Leaf Removal At the end of autumn, remove leaves that accumulated in the rain garden.	Each autumn.			Leaf blower (preferred) or rake	

If you have any other questions or concerns, contact the Anoka Conservation District at 763-434-2030



Exhibit C - Project Design

CITY OF ST. FRANCIS RAIN GARDEN PROJECT CITY OUTLOT EAST OF 3840 225TH LANE NW



ST. FRANCIS, ANOKA COUNTY

PROJECT LOCATION



1318 MCKAY DR. NE, SUITE 300 HAM LAKE, MN 55304 763-434-2030 www.AnokaSWCD.org

PROJECT: 225TH LANE CITY OUTLOT RAIN GARDEN

LOCATION:

EAST OF 3840 225TH LANE NW ST. FRANCIS, MN 55070

CLIENT: CITY OF ST. FRANCIS

DESIGNER: MITCH HAUSTEIN DATE: 12 JUNE 2024

REVISION: REVISION:

NRCS PRACTICE #: 570

JAA SIGNATURE/DATE: 06/12/2024

NRCS PRACTICE #:

JAA SIGNATURE/DATE:

NOTES:

- 1. Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked.
- 2. Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) piror to making any changes.

SCALE: VARIABLE

LOCATION

PROJECT

SHEET 1/9

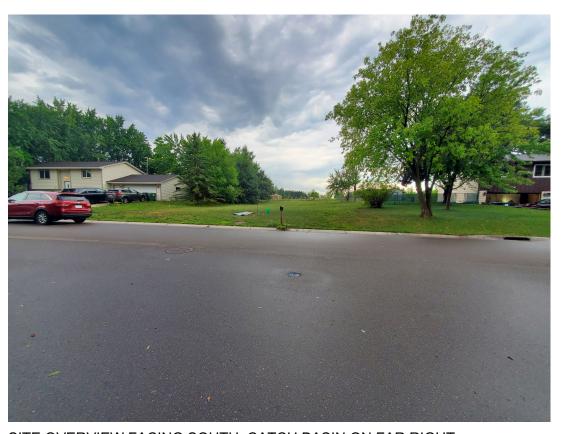
SITE PICTURES



SITE OVERVIEW FACING SOUTH



SITE OVERVIEW FACING SOUTHWEST, CATCH BASIN IN BACKGROUND



SITE OVERVIEW FACING SOUTH, CATCH BASIN ON FAR RIGHT



SITE OVERVIEW FACING SOUTHEAST, CATCH BASIN IN FOREGROUND



1318 MCKAY DR. NE, SUITE 300 HAM LAKE, MN 55304 763-434-2030 www.AnokaSWCD.org

PROJECT: 225TH LANE CITY OUTLOT RAIN GARDEN

LOCATION:

EAST OF 3840 225TH LANE NW ST. FRANCIS, MN 55070

CLIENT: CITY OF ST. FRANCIS

DESIGNER: MITCH HAUSTEIN DATE: 12 JUNE 2024

REVISION: REVISION:

NRCS PRACTICE #: 570

CLARO

JAA SIGNATURE/DATE: 06/12/2024

NRCS PRACTICE #:

JAA SIGNATURE/DATE:

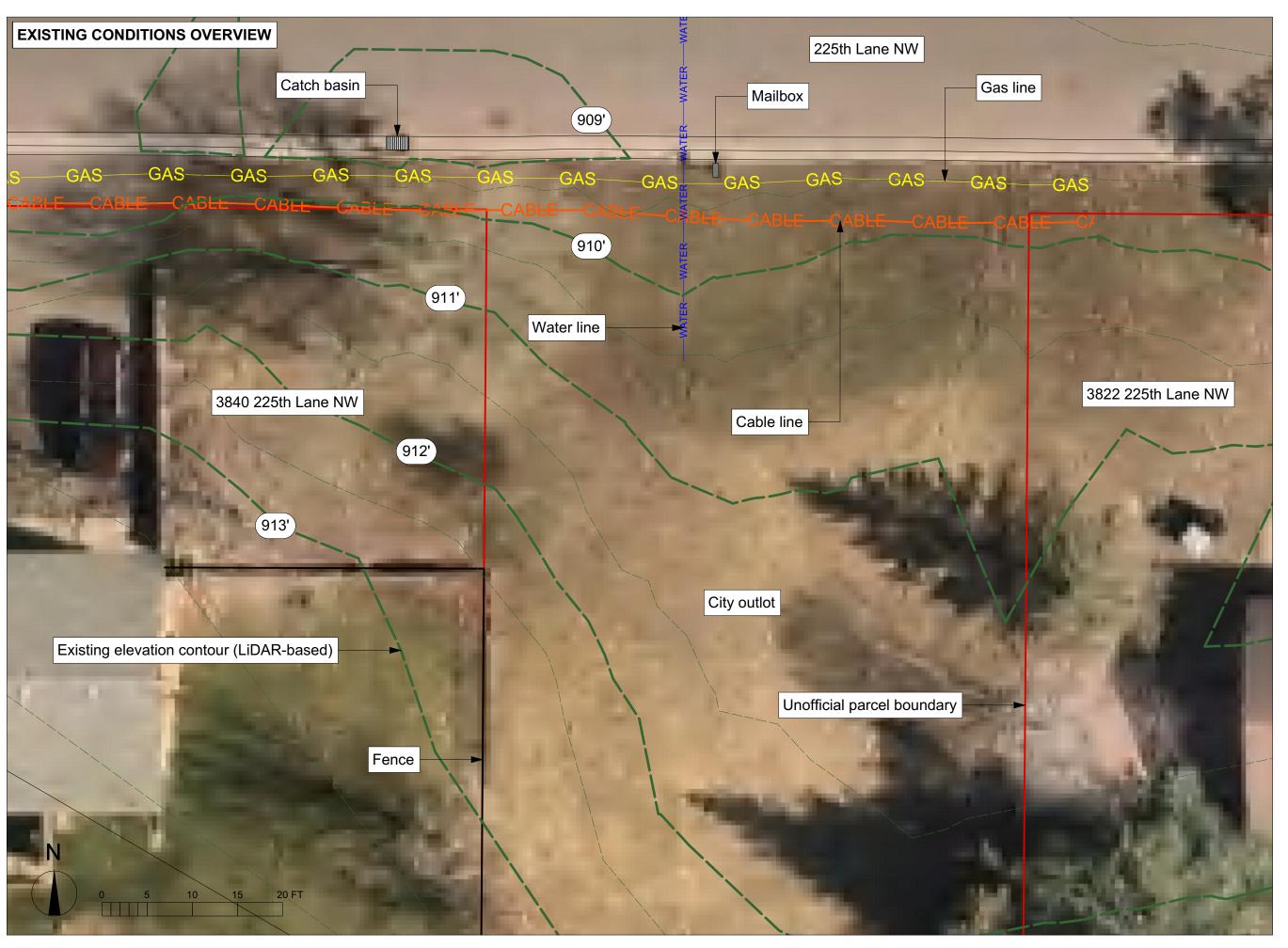
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SCALE: VARIABLE

SITE PICTURES

SHEET 2/9





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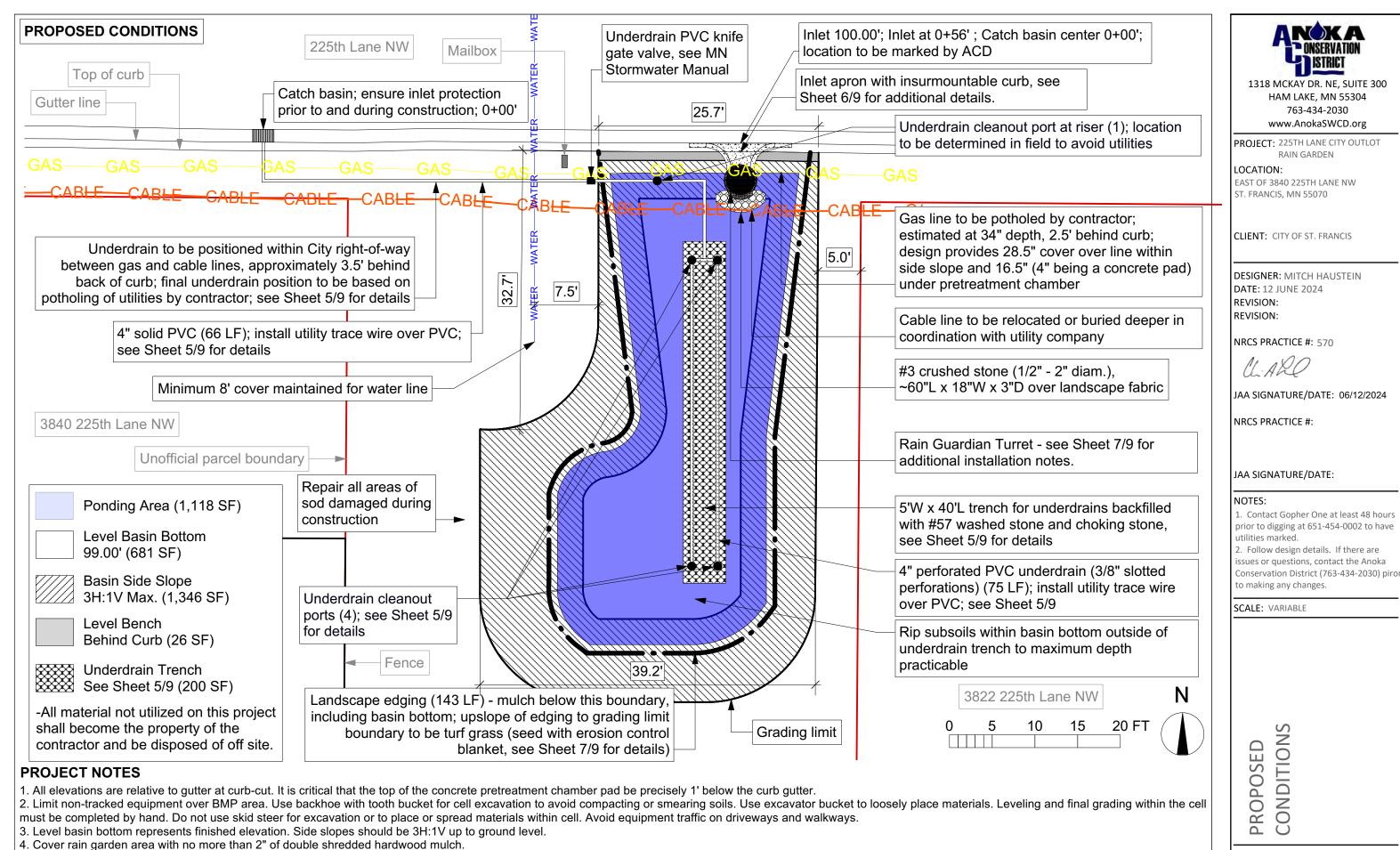
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SCALE: VARIABLE

EXISTING CONDITIONS

SHEET 3/9

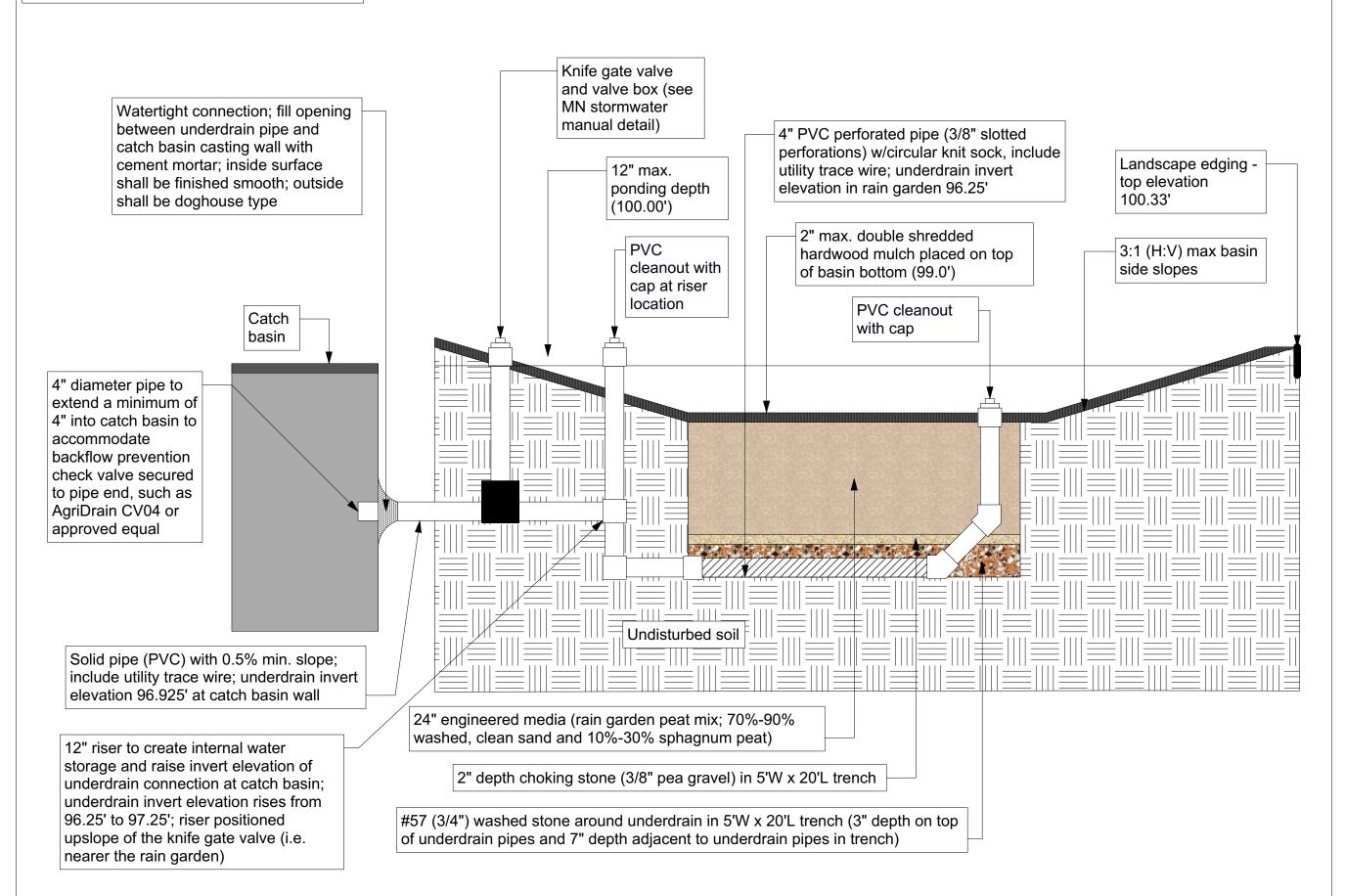


5. Contractor shall repair any damage to the curb that occurs during construction. Plywood or other protection must be used under ramps, tracks, and outriggers. Contractor is not to damage existing roadway section for

necessary curb work.

SHEET 4/9

BASIN AND UNDERDRAIN CROSS-SECTION





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PROJECT: 225TH LANE CITY OUTLOT RAIN GARDEN

LOCATION:

EAST OF 3840 225TH LANE NW ST. FRANCIS, MN 55070

CLIENT: CITY OF ST. FRANCIS

DESIGNER: MITCH HAUSTEIN

DATE: 12 JUNE 2024 REVISION:

REVISION:

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ChiARC

JAA SIGNATURE/DATE: 06/12/2024

NRCS PRACTICE #:

JAA SIGNATURE/DATE:

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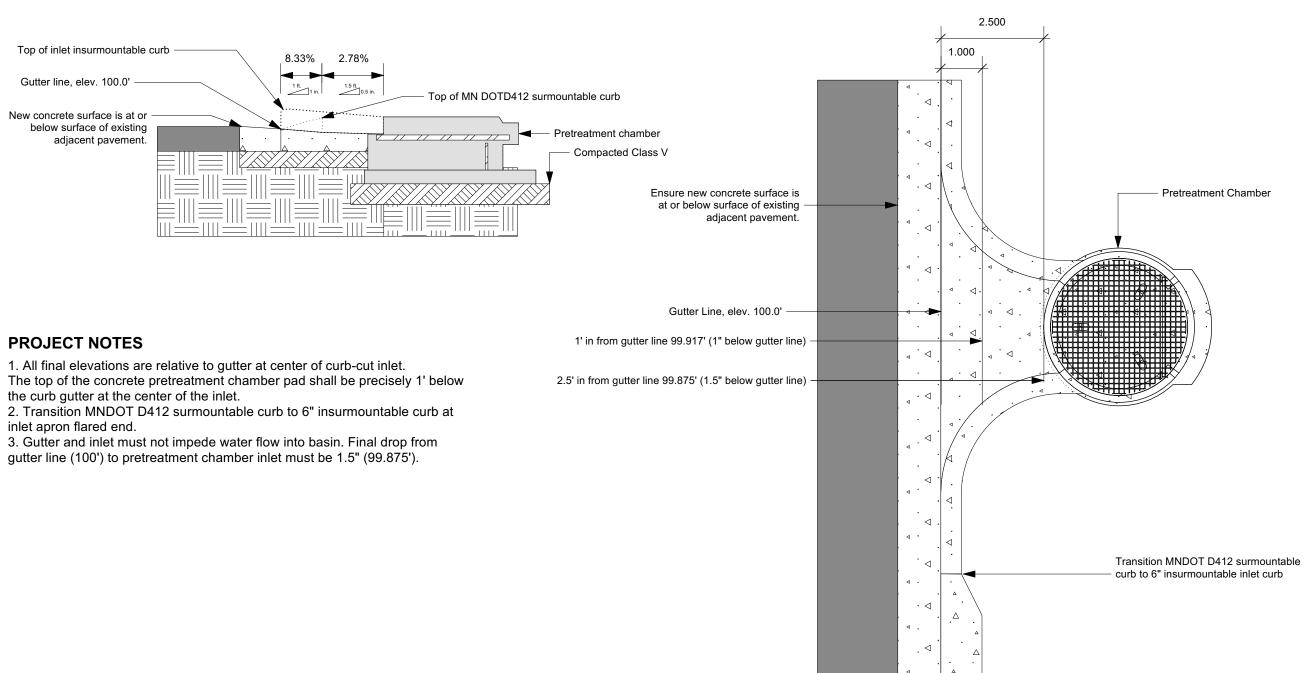
SCALE: VARIABLE

BASIN AND
UNDERDRAIN
CROSS-SECTION

SHEET 5/9

CURB-CUT INLET AND PRETREATMENT CHAMBER DETAIL

SIDE VIEW PLAN VIEW





PROJECT: 225TH LANE CITY OUTLOT RAIN GARDEN

LOCATION:

EAST OF 3840 225TH LANE NW ST. FRANCIS, MN 55070

CLIENT: CITY OF ST. FRANCIS

DESIGNER: MITCH HAUSTEIN

DATE: 12 JUNE 2024 REVISION:

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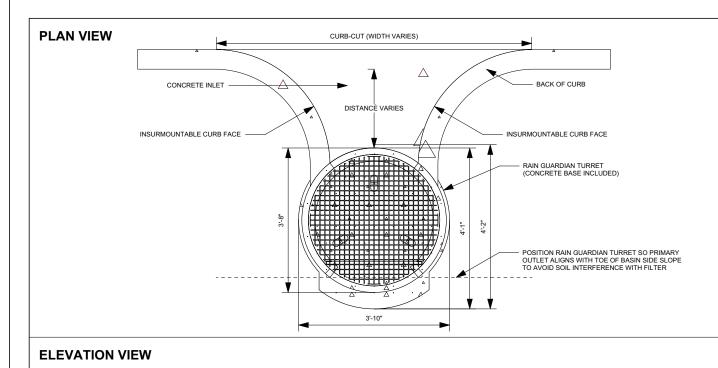
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SCALE: VARIABLE

CURB-CUT INLET
AND
PRETREATMENT
CHAMBER DETAIL

SHEET 6/9



RAIN GUARDIAN TURRET INLET

PLAN VIEW NOTES

- 1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS
- 2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR

SPECIFICATIONS

- 1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (5% TO 8.5% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C858.
- 2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
- 3. FIBERGLASS TOP GRATE (32 LBS, 1-1/2" THICK) 1,760 LB CONCENTRATED LOAD OR 409 LB/SQ-FT UNIFORM LOAD.

INSTALLATION NOTES

1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET. POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN TURRET.

- 2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE.
- 3. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN TURRET AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN TURRET ON THE BIORETENTION SIDE.
- **4.** INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET AND CONCRETE INLET BEFORE POURING INLET.
- 5. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.
- 6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC ON THE INTERIOR SIDE OF THE RAIN GUARDIAN TURRET.

3D VIEWS





ELEVATION VIEW NOTES

1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION.



INLET INSURMOUNTABLE CURB

GUTTERLINE

SITE SPECIFIC

SITE SPECIFIC

CLASS 5 AGGREGATE

RAIN GUARDIAN TURRET
PRETREATMENT CHAMBER
BIORETENTION PONDING DEPTH: 1'
TYPICAL DETAIL

RAIN GUARDIAN TURRET (CONCRETE BASE INCLUDED)

Δ

TOP FIBERGLASS GRATE

REV	BY	DATE	DESCRIPTION		
Α	MDH	11/16/2022	TURRET - 1'		
SCALE		VARIABLE			
U.S. PATENT NOS.		8,501,016 AND 8,858,804			



MANUFACTURED BY:

Stoneworks

ARCHITECTURAL PRECAST /CAST STONE

NATIONAL PRECAST CONCRETE ASSOCIATION

CERTIFIED PLANT

utilities marked.

2. Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) piror to making any changes.

SCALE: VARIABLE

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1318 MCKAY DR. NE, SUITE 300 HAM LAKE, MN 55304

763-434-2030

www.AnokaSWCD.org

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RAIN GARDEN

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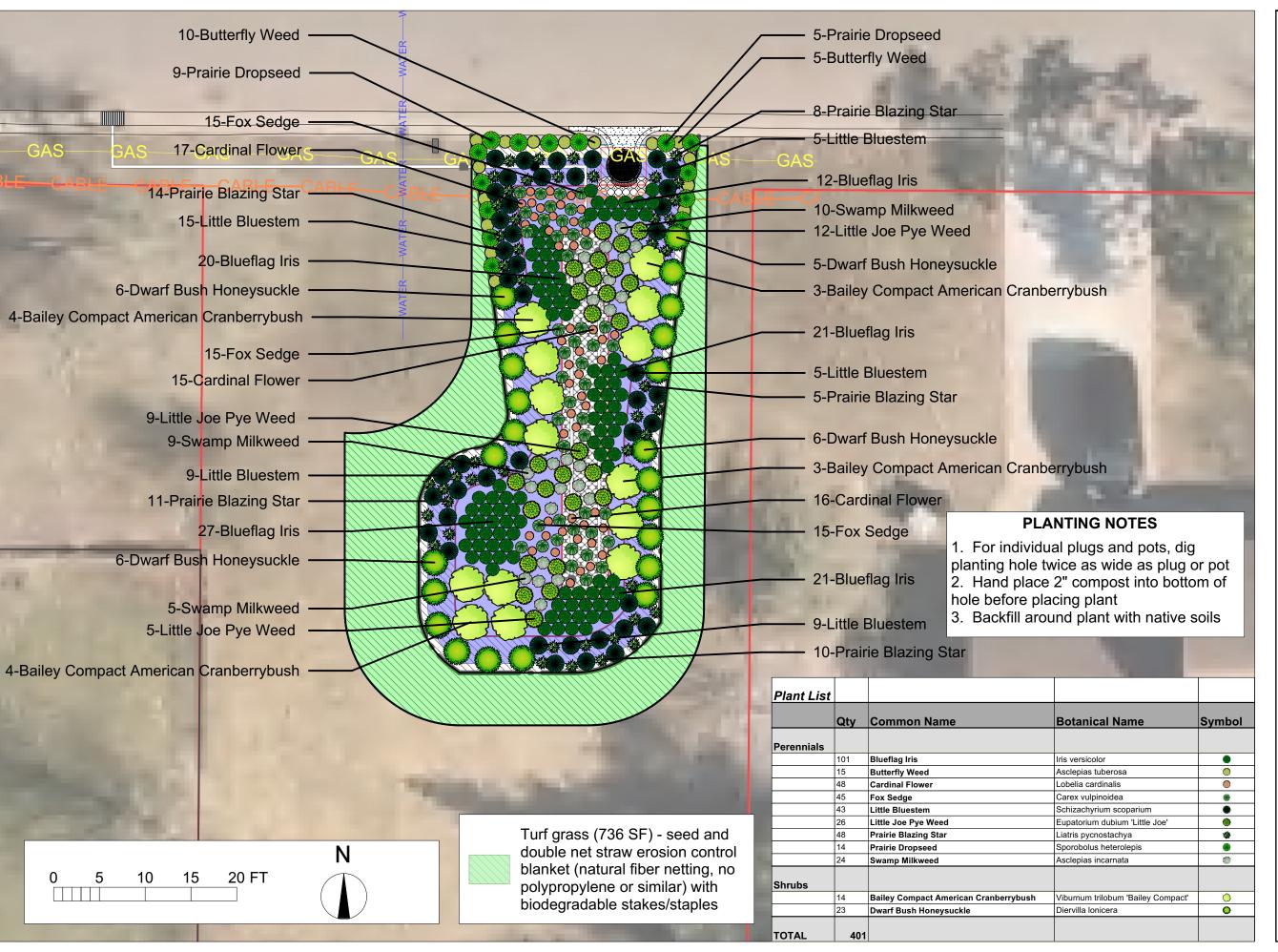
REVISION:

REVISION:

RAIN GUARDIAN PRETREATMENT CHAMBER DETAI

SHEET 7/9

REVISION HISTORY





1318 MCKAY DR. NE, SUITE 300 HAM LAKE, MN 55304 763-434-2030 www.AnokaSWCD.org

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SCALE: VARIABLE

PLANTING PLAN

SHEET 8/9

BASE BID TOTAL SPECIFIC **ESTIMATED** ITEM NO. NOTE **DESCRIPTION UNITS QUANTITY** MOBILIZATION/DEMOBILIZATION **EACH** 2 S1 EXCAVATION, DISPOSAL, AND GRADING - BASIN CY 134.2 3 CLASS 5 AGGREGATE BASE (UNDER RAIN GUARDIAN TURRET) CY 0.23 LANDSCAPE FABRIC (UNDER STONE AT RAIN GUARDIAN TURRET OUTLET) SY 0.83 4 5 #3 WASHED CRUSHED STONE (0.5" - 2" DIAMETER) (AT RAIN GUARDIAN TURRET OUTLET) CY 0.07 RAIN GUARDIAN TURRET PRETREATMENT CHAMBER (1' PONDING DEPTH) - ORDER THROUGH ACD (763-434-2030 X100) **EACH** STANDARD CONCRETE WORK (CURB-CUT, CURB, AND INLET) EACH 6 1 DOUBLE SHREDDED HARDWOOD MULCH (2" MAX) CY 8.9 8 9 COMPOST (2" DEPTH ONLY IN PLANTING HOLES) CY 0.28 1" PLANT PLUG EACH 263 10 4" PLANT POTS **EACH** 11 124 12 1-GALLON PLANT POT **EACH** 14 143 13 VINYL LANDSCAPE EDGING LF SY 14 TURF RESTORATION (SEED) 81.8 DOUBLE NET STRAW EROSION CONTROL BLANKET (NATURAL FIBER NETTING ONLY, NO POLYPROPYLENE OR SIMILAR) SY 15 81.8 WITH BIODEGRADABLE STAKES/STAPLES

ALTERNATE 1 - UNDERDRAIN

	SPECIFIC			TOTAL ESTIMATED
ITEM NO.		DESCRIPTION	UNITS	QUANTITY
1	S1	EXCAVATION, DISPOSAL, AND GRADING - UNDERDRAIN	CY	20.4
2		UNDERDRAIN INCLUDING ALL CONNECTIONS AND FITTINGS - 75 LF PERFORATED (3/8" SLOTTED PERFORATIONS) IN BASIN BOTTOM, 20 LF SOLID FOR CLEAN-OUT RISERS AND 66 LF FOR CONNECTION TO CATCH BASIN	LF	161
3		#57 WASHED CRUSHED STONE (3/4")	CY	4.32
4		2" CHOKING COURSE (3/8" PEA GRAVEL)	CY	1.23
5		UNDERDRAIN KNIFE GATE VALVE	EACH	1
6		UNDERDRAIN CONNECTION TO CATCH BASIN	EACH	1
7		UNDERDRAIN BACKFLOW PREVENTION CHECK VALVE (SUPPLIED BY ACD, INSTALLED BY CONTRACTOR)	EACH	1
8		ENGINEERED MEDIA (RAIN GARDEN PEAT MIX, 70%-90% WASHED, CLEAN SAND AND 10%-30% SPHAGNUM PEAT)	CY	14.8

S1. ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE

PLANT SPECIES, SIZES, AND QUANTITIES

SPECIES			T SIZE AN		
COMMON NAME	SCIENTIFIC NAME	1" PLUG	4" POT	1-GALLON POT	GRAND TOTAL
Bailey Compact American Cranberrybush	Viburnum trilobum 'Bailey Compact'			14	14
Blueflag Iris	Iris versicolor		101		101
Butterfly Weed	Asclepias tuberosa	15			15
Cardinal Flower	Lobelia cardinalis	48			48
Dwarf Bush Honeysuckle	Diervilla lonicera		23		23
Fox Sedge	Carex vulpinoidea	45			45
Little Bluestem	Schizachyrium scoparium	43			43
Little Joe Pye Weed	Eupatorium dubium 'Little Joe'	26			26
Prairie Blazing Star	Liatris pycnostachya	48			48
Prairie Dropseed	Sporobolus heterolepis	14			14
Swamp Milkweed	Asclepias incarnata	24			24
	GRAND TOTAL	263	124	14	401



1318 MCKAY DR. NE, SUITE 300 HAM LAKE, MN 55304 763-434-2030 www.AnokaSWCD.org

PROJECT: 225TH LANE CITY OUTLOT RAIN GARDEN

LOCATION:

EAST OF 3840 225TH LANE NW ST. FRANCIS, MN 55070

CLIENT: CITY OF ST. FRANCIS

DESIGNER: MITCH HAUSTEIN

DATE: 12 JUNE 2024 REVISION:

REVISION:

NRCS PRACTICE #: 570

Chi ARO

JAA SIGNATURE/DATE: 06/12/2024

NRCS PRACTICE #:

JAA SIGNATURE/DATE:

NOTES:

- 1. Contact Gopher One at least 48 hours prior to digging at 651-454-0002 to have utilities marked.
- 2. Follow design details. If there are issues or questions, contact the Anoka Conservation District (763-434-2030) piror to making any changes.

SCALE: VARIABLE

SCHEDULES AND QUANTITIES

SHEET 9/9