

QUOTATION FORM

Grand Rapids, MN Rain Garden Inlet Improvements - 2024

Submit quotation form to Matt Wegwerth PE, City of Grand Rapids, 420 North Pokegama Avenue, Grand Rapids, MN by 3:00 pm on Wednesday, May 1st, 2024. Quotes can be mailed, hand delivered or emailed. If mailed or hand delivered, quote should be submitted in a sealed envelope to the City Engineers office:

Quote package shall include the following:

- 1. Quotation Form
- 2. Special Provisions
- 3. Location Map
- 4. Rain Guardian Bunker Details

All spaces of the quotation form shall be filled in. The quote must be in a sealed envelope labeled "2024 Rain Garden Inlet Improvements".

Project Description: The project includes installation of Rain Guardian Bunkers at nine (9) locations around the Crystal Lake roundabout.

Project will be completed on a lump sum basis, based on the location map, details and the estimated following quantities:

	STATEMENT OF ESTIMATED QUANTITIES		
ПЕМОО.	DESCRIPTION	UNIT	QUANTITY
1	REMOVE CONCRETE APRONS	LS	1
2	INSTALL RAIN GUARDIAN BUNKER	EACH	9
3	INSTALL CONCRETE APRON	EACH	9
4	TRAFFIC CONTRL	LS	1
5	EROSION CONTROL	LS	1

Total Lump Sum Bid: \$ 64,400.00

We, the undersigned, doing business as Casper Construction, Inc. have carefully examined the Quotation Documents and the site of the proposed work, and are familiar with all of the conditions, laws and regulations surrounding the construction of the proposed project including the availability of materials and labor. We hereby propose to the City of Grand Rapids, MN to furnish all labor, materials, equipment, skills and facilities for the complete construction of the 2024 – Rain Garden Inlet Improvements as described herein. The lump sum price shown includes sales tax and all other applicable taxes, permits and fees.

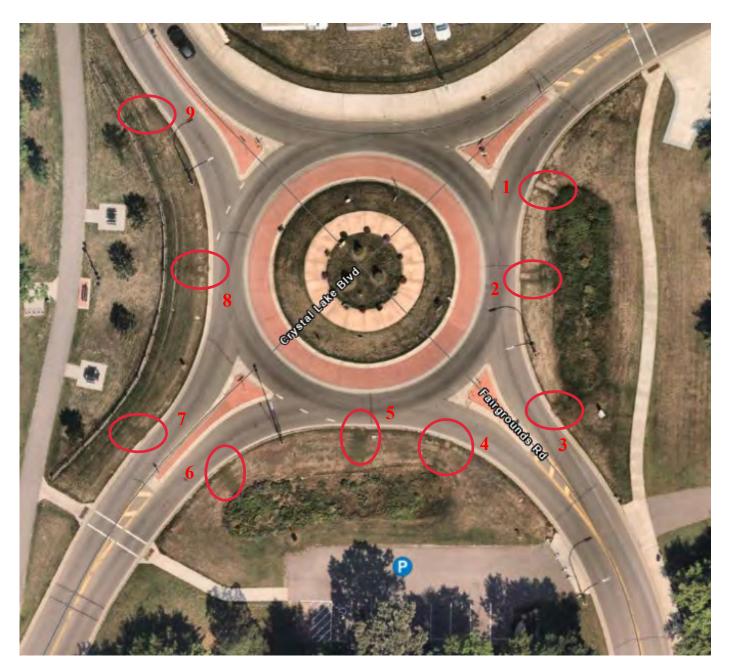
Dated this <u>1st</u> day of <u>May</u> , 2024
Name of Company <u>Casper Construction, Inc.</u>
Signature of Authorized Representative
Printed Name of Authorized Representative
Title of Authorized Representative <u>Senior Estimator/Project Manager</u>
Legal Address 212 SE 10th St, Grand Rapids, MN 55744
Business Phone <u>218-326-9637</u>

SPECIAL PROVISIONS

General:

- 1. EJCDC Standard General Conditions of the Construction Contract shall apply to the project.
- 2. All materials shall be in accordance with applicable building codes and local specifications.
- 3. Rain Guardian bunkers shall be provided by the contractor and installed per manufacturer's details and include all associated appurtenances.
- 4. Existing curb and gutter shall not be disturbed. Concrete apron shall be installed per Concrete Apron Detail
- 5. The Work may not begin until June 1, 2024 and will be substantially completed on or before August 30, 2024
- 6. The Work shall be coordinated with local community events. Traffic closures shall not impact Tall Timber Days, Classic Car show and/or the Itasca County Fair. Other events may be impacted and shall be coordinated around.
- 7. Contractor shall complete rough grading around each site. City will place topsoil, seed and erosion control
- 8. Contractor shall be responsible for site cleanup
- 9. Traffic control plan must be submitted to the City and approved prior to starting the work. Closures may be allowed assuming proper signage.
- 10. Contractor shall provide erosion control as necessary
- 11. Liquidated damages shall be set at \$300 per day for every day after the completion dates that the project is not complete.
- 12. Contractor will be required to submit a City Stormwater permit. Fee will be waived.

Rain Garden Inlet Project - 2024 Location Map

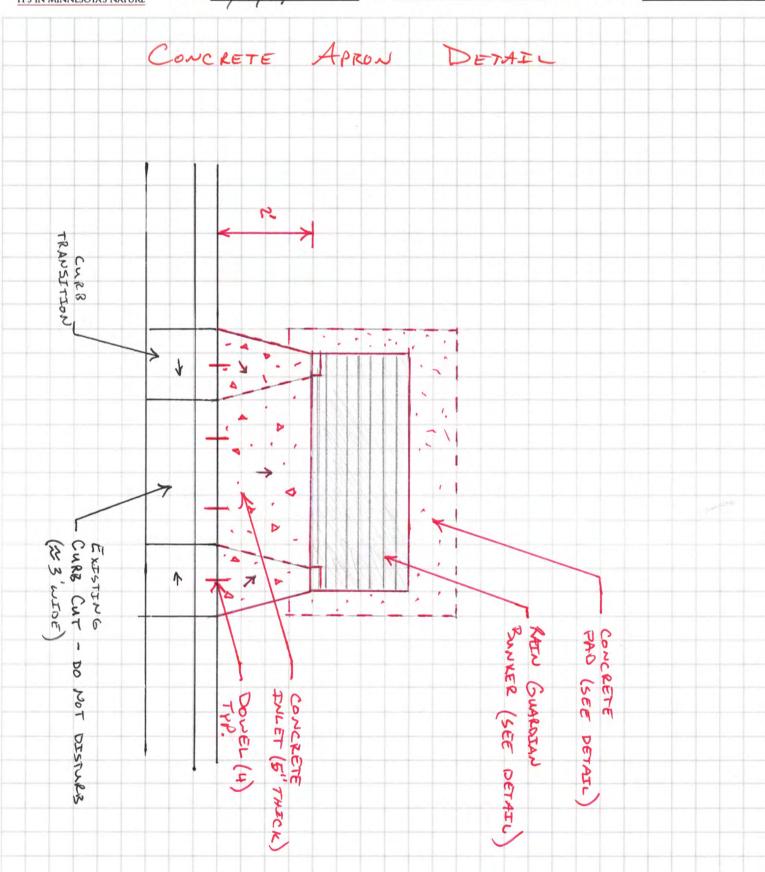




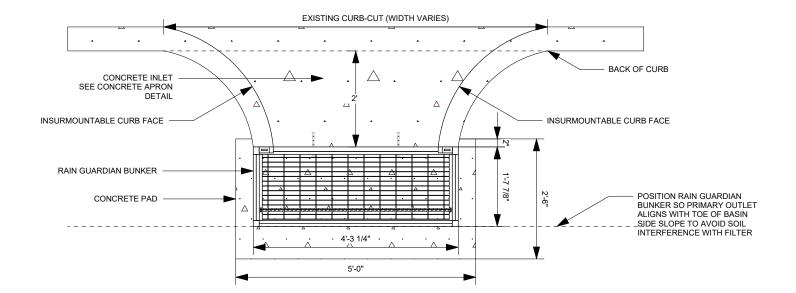
Project: RAIN	GARDEN	Page#	
			_

Subject: FUET RETROFIT PROTECT

Date: 4/q/zzy By: _____ City Project#____



PLAN VIEW



ELEVATION VIEW CARRIAGE BOLT (PROVIDED RAIN GUARDIAN BUNKER INLET INLET INSURMOUNTABLE CURB RAIN GUARDIAN BUNKER HIGH VOLUME OVERFLOW GUTTERLINE GUTTERLINE SITE SPECIFIC 1'-3 7/8" **BASIN BOTTOM** =REMOVABLE SITE SPECIFIC -FILTER WALL PRIMARY OUTLET SUBSOILS CONCRETE PAD CLASS 5 AGGREGATE MASONRY SCREWS (PROVIDED)

PLAN VIEW NOTES

- 1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN BUNKER MAY VARY WITH SITE CONDITIONS. INSTALLATION FLUSH WITH THE BACK OF THE CURB CAN ALSO BE COMPLETED WITH THE RAIN GUARDIAN BUNKER.
- 2. CONCRETE PAD EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN BUNKER TO SERVE AS A SPLASH DISSIPATOR.

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.
- 2. THE TOP OF THE CONCRETE PAD IS PRECISELY 1' BELOW THE GUTTERLINE.

SPECIFICATIONS

- 1. CHAMBER CONSTRUCTED OF RECYCLED PLASTIC LUMBER (95%+) MANUFACTURED AND DESIGNED TO ASTM C1028, D6108, D6109, D6111, D6117, AND D6341 (54 LBS).
- 2. TOP GALVANIZED METAL GRATE (35 LBS, 1" THICK) 316 LB CONCENTRATED LOAD OR 158 LB/SQ-FT UNIFORM LOAD.

INSTALLATION NOTES

- 1. INSTALL THE CONCRETE PAD WITH A 1' 10" OFFSET FROM THE BACK OF THE CURB TO ACCOMMODATE THE CONCRETE INLET. THIS DISTANCE MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN BUNKER. POSITION RAIN GUARDIAN BUNKER SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. THE CONCRETE PAD SHOULD BE REINFORCED WITH REBAR.
- 2. 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" CONCRETE PAD TO WHICH THE RAIN GUARDIAN BUNKER WILL BE SECURED. THEREFORE, THE TOP OF THE FINISHED CONCRETE PAD IS PRECISELY 1' BELOW THE GUTTERLINE ELEVATION. THE TOP OF THE RAIN GUARDIAN BUNKER METAL GRATE WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE PAD AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN BUNKER.

 3. THE RAIN GUARDIAN BUNKER SHOULD BE POSITIONED 2" FROM THE EDGE OF THE CONCRETE PAD CLOSEST TO THE BACK OF THE CURB. THEREFORE, THE RAIN GUARDIAN BUNKER WILL BE 2' FROM THE BACK OF THE CURB.
- **4.** USING THE PILOT HOLE IN EACH OF THE FOUR CORNER POSTS, PREDRILL 5/32" HOLES INTO THE CONCRETE PAD WITH A 4-1/2" MASONRY BIT AND HAMMER DRILL.
- **5.** SECURE RAIN GUARDIAN BUNKER TO CONCRETE PAD WITH FOUR 3/16" X 2-3/4" MASONRY SCREWS (PROVIDED).
- **6.** INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN BUNKER 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 BUNKER ON THE BIORETENTION SIDE.
- 7. WHEN POURING THE CONCRETE INLET, ENSURE THE CARRIAGE BOLTS ON THE RAIN GUARDIAN BUNKER ARE SURROUNDED BY AT LEAST 2" OF CONCRETE ON ALL SIDES.
- 8. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.
- 9. WRAP CABLE THROUGH TOP METAL GRATE AND SECURE WITH PROVIDED CLAMP. ENSURE SUFFICIENT SLACK EXISTS IN CABLE TO ALLOW FOR GRATE REMOVAL AND PLACEMENT IN CONCRETE INLET DURING CLEANING. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC FACING THE RAIN GUARDIAN BUNKER INLET.



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

REVISION HISTORY

REV	BY	DATE	DESCRIPTION
Α	MDH	02/22/2022	BUNKER - 1'
SCALE		VARIABLE	
U.S. PATENT		8,501,016 AND 8,858,804	

DEVELOPED/MANUFACTURED BY:



www.RainGuardian.biz