

LGU Operations and Maintenance Agreement

Landowner: City of New Germany
(Name, address, telephone
and email) c/o Joan Guthmiller
300 Broadway Street East
New Germany, MN 55367
952-353-2488

Project Paul Moline
Cooperator: Planning and Water Management Manager
(Name, address, telephone
and email) 600 4th Street East
Chaska, MN 55318
952-361-1816
pmoline@co.carver.mn.us

Location (County): Carver

This agreement dated 7/31/12 between the City of New Germany, and Carver County Water Management Organization (CCWMO) is entered into in order to operate and maintain stormwater BMPs as outlined within this agreement.

This Agreement covers lands in T 116, R 026, S. 4 adjacent and within the following watercourse Crow River as specified in the project proposal. The term of this Agreement shall be ten (10) years, from 7/31/12 to 7/31/22.

Recitals

- A) Multiple Best Management Practices (BMPs) will be installed within the city boundaries of New Germany along city right of way. The total number of BMPs installed will be twelve separate practices, and include sump structures, SAFL Baffles, Custom Catch Basin Media Filters, grass swale, and Rain Guardian Boxes. This mix of BMPs will treat stormwater as it enters the storm sewer system for New Germany. Currently there is no treatment for stormwater.
- B) The City will agree to the following operating and maintenance schedule.
 - a. Inspect sump structures after spring melt and fall leaf down.
 - b. Vacuum out sump structures during inspection times.
 - c. Inspect and clean out Rain Guardian Boxes after spring melt and fall leaf down.
 - d. Inspect grass swale for erosion.
 - e. Log all inspections and actions taken during site visits.
 - f. Maintain the water quality purpose of installed BMPs.
- C) Attached to this agreement is an O&M document detailing all aspects of operation and maintenance for the BMPs installed during this project.
- D) The City will coordinate with Carver County Soil and Water District to help with the first inspection of the newly installed BMPs to ensure that all questions are answered.

I. CITY RESPONSIBILITIES

- A) The City is responsible for maintaining the project. The City will return to Carver County any cost share funds it already received under paragraph II. B, in the event that this condition is not satisfied. Minimum maintenance requirements are outlined in the Recitals, paragraph B.
- B) The City agrees to the terms of operation and maintenance and monitoring outlined in the attached operation and maintenance manual.

- C) The City agrees to allow the CCWMO access to the project area for maintenance, evaluation and monitoring of the project. The City agrees to make the site available as a demonstration site to the general public with prior notification from Carver County Staff.

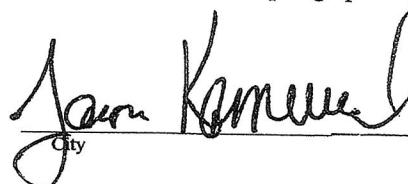
II. CCWMO RESPONSIBILITIES

- A) The CCWMO assumes no liability for injury or damage, other than that caused by it's own negligence, in the project area. The CCWMO assumes no jurisdiction over the project area for purposes of controlling trespass, noxious weeds, granting rights-of-way, or other incidents of ownership.
- B) As a condition subsequent to Carver County obligations herein, the City must maintain the Project for a period of ten (10) years after installation. Any damages to installed BMPs not caused by negligence of City staff will be repaired or replaced by Carver County Staff.
- C) Carver County Staff may monitor the Project periodically to evaluate short- and long-term performance. Data collected as a result of this monitoring effort will be made available to both the City and to the general public.

III. MISCELLANEOUS:

- A) Nothing contained in this agreement is intended or shall be construed in any manner as creating or establishing a partnership, joint venture, or agency relationship between parties.
- B) Except if arising from or out of Carver County Staff's fault or negligence, the City agrees to indemnify and defend Carver County Staff, its successors, and assigns against and will hold harmless Carver County Staff, its successors, and assigns from any claims, expenses, or damages, including attorney's fees, arising from the City performance of this agreement.
- C) This agreement shall be binding upon and inure to the benefit of the City and Carver County Staff, and their respective successors and assigns: provided, however, that neither party may assign this agreement without the prior written consent of the other. Any modification, alteration, amendments, deletions, or waivers of the provisions of this agreement will be valid only when mutually agreed upon in writing by both parties.
- D) This agreement will be effective as of the date of all signatures required below have been provided. The date of the last signature will be the date of this agreement and will be inserted in the first paragraph on page 1.

 7/11/12
CCWMO Date

 1-3-2012
City Date

Operations and Maintenance Plan

Sumps Structures with SAFL Baffles

Sumps structures are constructed to provide storm water with an area to slow and drop out sediment. SAFL baffles are a patent pending plate developed at the St. Anthony Fall Laboratory (SAFL) at the U of MN. The plate breaks up the flow of stormwater as it enters the sump and prevents heavy flows from resuspending the sediment previously collected by the sump. The following are some operation and maintenance guidelines to be followed to ensure that these practices are operating at peak efficiency.

General

Sumps should be inspected, at a minimum, after spring melt and after fall street sweeping. If possible, more frequent inspections should be done after major storms or if known erosion has entered the storm sewer system.

Recognizing this, the SWCD has prepared these guidelines for operating and maintaining your sump and SAFL baffle. The following lists the anticipated major, as well as uncommon, items of operation and maintenance for these structures. Contact the SWCD office (952) 466-5230 for assistance in the initial inspection to determine the annual or periodic operation and maintenance needs.

Operation, Maintenance, and Safety Guidelines

Sump Structures

- 1.) Clean out the structure after spring melt and fall street sweeping
 - a. Remove all debris and sediment out of the structure
- 2.) Inspect the structure every two months after spring melt until fall freeze.
 - a. Note the amount of debris and sediment currently in structure
 - b. If amount is less than 4" from the bottom of the SAFL baffle, remove sediment and debris and dispose of properly.

SAFL Baffle

- 1) Inspect condition of SAFL Baffle and note any excessive wear and tear.
 - a. Remove any debris that may be impeding the flow of water through the holes of the Baffle
 - b. Contact Carver County WMO Staff if major wear and tear is evident
 - c. Contact Carver County WMO Staff if SAFL Baffle has broken off from Sump walls

Sump Structures with Custom Catch Basin Media Filters

Sumps are constructed to provide storm water to slow and drop coarse sediment. The Custom Catch Basin Filter Boxes are boxes installed within the sump with a filter media to reduce the amount of fine particulates and nutrients discharging. The following are some operation and maintenance guidelines to be followed to ensure these practices are operating at peak efficiency.

General

Sumps should be inspected, at a minimum, after spring melt and after fall street sweeping. If possible, more frequent inspections should be done after major storms or if known erosion has contributed sediment to the storm sewer system.

Recognizing this, the SWCD has prepared these guidelines for operating and maintaining your sump and Custom Filter Box. The following lists the anticipated major, as well as uncommon, items of operation and maintenance for these structures. Contact the SWCD office (952) 466-5230 for assistance in the initial inspection to determine the annual or periodic operation and maintenance needs.

Operation, Maintenance, and Safety Guidelines

Sump

- 1.) Inspect the structure after spring melt and fall street sweeping.
 - a. Remove any debris and sediment out of the structure with vacuum truck.
- 2.) If possible check structure every two months after spring melt until fall street sweeping
 - a. Note amount of debris and sediment currently in structure
 - b. If amount is less than 42" from the water level (outlet elevation), remove sediment and debris

Custom Media Filter Box

- 1) Inspect condition of the Custom Filter Box and note any wear and tear
 - a. Contact Carver County WMO Staff if major wear and tear is evident
 - b. Contact Carver County WMO Staff if the filter has broken off from Sump walls
- 2) Upon recommendation from Carver County Staff, vacuum out filter media and replace (media replacement likely to be 1x/yr or 1x/2yr). Maintenance consists of the following:
 - a. Remove diversion plate by unhooking chains from the underside of the catch basin top slab. Temporarily loop the chain hooks over the vertical steel wall and let diversion plate hang (to ensure it is out of the way for maintenance of the filter basket).
 - b. Remove locking pins (6) from locking brackets.
 - c. Lift locking bars (3) from their positions. Remove from catch basin and set aside.
 - d. Reach down and grab the handle along the edge of the center mesh screen section; pull up and remove the center screen section from the catch basin through the casting. Set aside.
 - e. Position vacuum hose in catch basin basket, taking care not to damage rubber gaskets surrounding the screen frame.

- f. Inspect all 3 top sections (one removed, two in place) for damage, replace or repair as needed.
 - g. Place new media in basket (11 ft--3), wet to compact, and top off until basket is full.
 - h. Ensure no grit remains along rubber seal and inspect for seal damage; wipe with damp cloth if necessary. Place center screen back on basket ensuring basket is full of filter media, add media as needed.
 - i. Replace locking bars and pins. Return deflector plate to its original position, hanging from the hooks on the underside of the manhole top slab.
- 3) Once every 5 years: Inspect caulking along vertical steel plate for signs of wear and tear. Replace caulk as needed with appropriate RTV-silicone caulk suitable for submerged use (ASI-335, or equivalent).

Grass Swale with Rain Guardians

Grass swales are constructed to provide treatment to storm water by slowing the water, causing sediment to drop out of the water. Also, swales allow for water to interact with vegetation increasing the amount of nutrients removed. Rain Guardian Boxes are installed at the entrance to the swale to both reduce the velocity of the water entering and to remove large size debris. The following are some operation and maintenance guidelines to be followed to ensure these practices are operating at peak efficiency.

General

The swale should be inspected immediately after connection is made to the road; annually during the first three years; after major storms; and at least once every two years after the initial three year period.

Rain Guardians should be inspected, at a minimum, after spring melt and after fall street sweeping. If possible, more frequent inspections should be done after major storms or if known erosion has entered the swale.

Recognizing this, the SWCD has prepared these guidelines for operating and maintaining your swale and Rain Guardian boxes. The following lists the anticipated major, as well as uncommon, items of operation and maintenance for these structures. Contact the SWCD office (952) 466-5230 for assistance in the initial inspection to determine the annual or periodic operation and maintenance needs.

Operation, Maintenance, and Safety Guidelines

Swale

1. Inspect the structure periodically, especially after a large runoff event.
2. Check damage to embankment by rilling, waves, or rodents.
 - a) Replace eroded material, fertilize, seed or sod where needed promptly.
3. Check for sloughing or sliding fill.
 - a) Contact the SWCD office for remedial recommendations.
4. Check for cracking or settlement of fill.
 - a) Contact your local SWCD Technician for remedial recommendations.
5. Check for sparse vegetation, bare spots, trails.
 - a) Repair damage of vegetative cover promptly with soil, fertilizer, seed or sod.
 - b) Control weed growth by mowing or spraying.
 - c) Control foot travel, grazing and motor vehicle travel.
6. Prevent shrub, tree or woody vegetative growth.
 - a) Remove all trees and shrubs growing on the embankment.

Rain Guardian Box

- 1) Inspect condition of Rain Guardian Box and note any wear and tear
 - a. Contact Carver County WMO Staff if the device has become nonfunctional
- 2) If box is greater than $\frac{1}{2}$ full of sediment, remove all sediment.
- 3) Clean the filter screen in the box.

- a. Remove the screen and run water through the screen in the opposite direction of normal flow.

NEW GERMANY STORMWATER TREATMENT RETROFITS

CONSTRUCTION PLANS FOR THE
CARVER COUNTY WATERSHED MANAGEMENT ORGANIZATION

APRIL, 2012

COUNTY WMO
PROJECT NO. 11-2112-2012-01

SHEET 1 INDEX

- 1) TITLE SHEET**
- 2) TREATMENT RETROFIT OVERVIEW**
- 3) CATCH BASIN FILTER LOCATIONS**
- 4) SAFF Baffle Locations**
- 5) BIOFILTRATION IMPROVEMENTS**
- 6) TURBIDOMETER/TOE RETAINING**



PLAN REFERENCES:

1) MINNESOTA DEPT. OF TRANSPORTATION - STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2005 (DOCT) OR MINIDOT DOCT XXX

2) FEDERAL SPECIFICATIONS

3) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

4) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

5) BOLTON & MENK, INC. (B&M) CONSTRUCTION DOCUMENTS FOR THE NEW GERMANY 2011 INFRASTRUCTURE IMPROVEMENT PRODUCT.

6) SRF CONSULTING GROUP, INC. (SRF) CONSTRUCTION DOCUMENTS FOR THE DAKOTA RAIL REGIONAL TRAIL PHASE II: NEW GERMANY TO THE HEDY PROJECT.

THE EXISTING UTILITY INFORMATION SHOWN IN THIS PLAN HAS BEEN SURVEYED BY OTHERS; THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOSPER STATE ONE CALL (800) 252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THE UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CLAUSE 3B-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

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

DAVID M. POSSI 44573- 08/25/2012

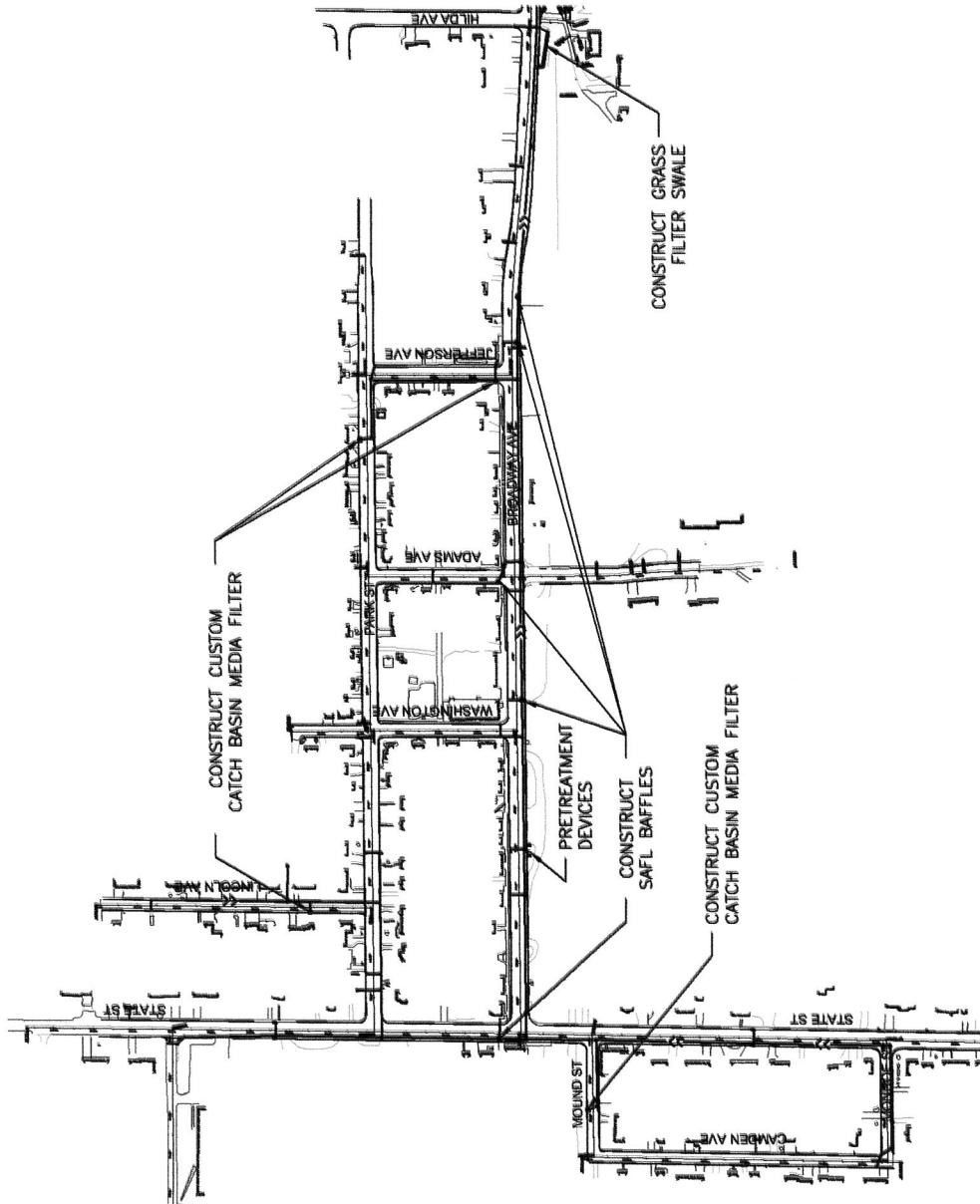
NEW GERMANY STORMWATER TREATMENT RETROFITS		CARRIER COUNTY WATER MANAGEMENT ORGANIZATION	
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HYDROMETHODS, LLC
11551 Livingston Avenue, Suite 104
West St. Paul, MN 55118

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SCHEDULE OF ESTIMATED QUANTITIES

Item	Description	Quantity	Unit	Approx.
1	Swale Excavation & Hauloff (EV) (P)	38	CY	
2	Aggregate, 0.5"-1.5" (Clear, Washed)	9	CY	
3	Filter Swale Media (See Sheet 5 Specifications) (CY)	18	CY	
4	6" TP Perforated Pipe with 3/8" Holes (3245)	80	LF	
5	6" PVC Riser Cleanout	1	EA	
6	Drainage Fabric, Type 1 (3735)	36	SY	
7	MH, Design H/w / Casting Neerah R-4242	1	EA	
8	12" RCP, Class V	30	LF	
9	Sand Bag Temporary Bypass	1	EA	
10	Seed, Mix 240 [38/6], Fertilizer (Type 2)	70	SY	
11	Erosion Control Blanket, Cat. 3 (3885)	70	SY	
12	Seed, Mix 250 [38/6], Fertilizer (Type 2) & Mulch (Type 1)	140	SY	
13	Silt Fence, Machine-Sliced (3886)	120	LF	
14	Custom Catch Basin Media Filter, 48"	4	EA	
15	Catch Basin Sand Filter Media (Clear, Washed)	44	CF	
16	SAFL Baffle, 48"	1	EA	
17	SAFL Baffle, 60"	2	EA	
18	SAFL Baffle, 72"	2	EA	
19	Rain Guardian	3	EA	
20	Class V Aggregate (3138)	60	CF	
21	Concrete (Rain Guardian Spillways & Pads) (P) (3301)	43	CF	

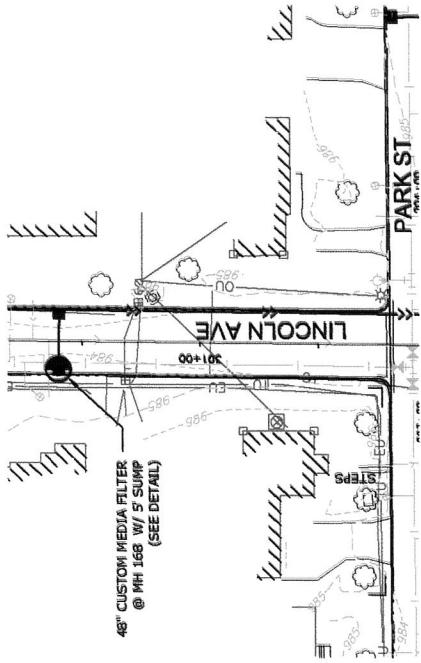


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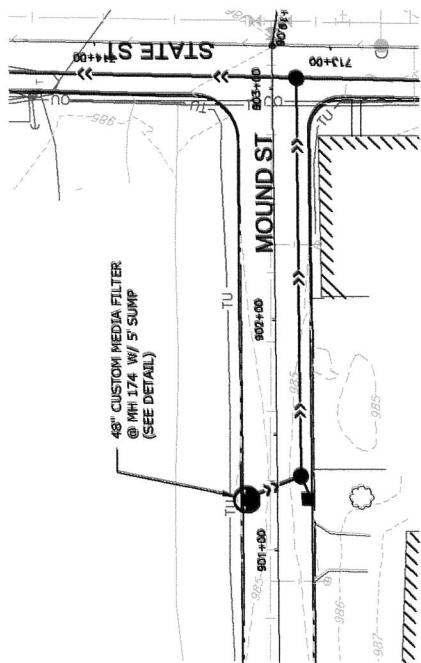
HYDROMETHODS, LLC
1551 Livingston Avenue, Suite 104
West St. Paul, MN 55118
o: 651.210.5713 | f: 651.219.1273

DESCRIPTION	REV. BY DATE	REV. BY DATE	REV. BY DATE
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Initial	Initial	Initial	Initial

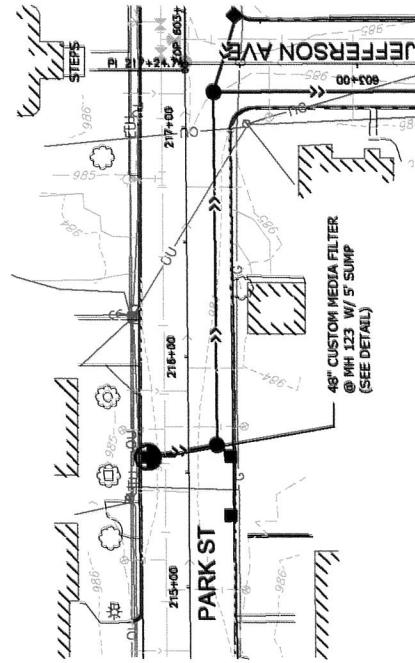
NEW GERMANY STORMWATER TREATMENT RETROFIT	Sheet 2 or 7
CARVER COUNTY WATER MANAGEMENT ORGANIZATION	
TREATMENT RETROFIT OVERVIEW	



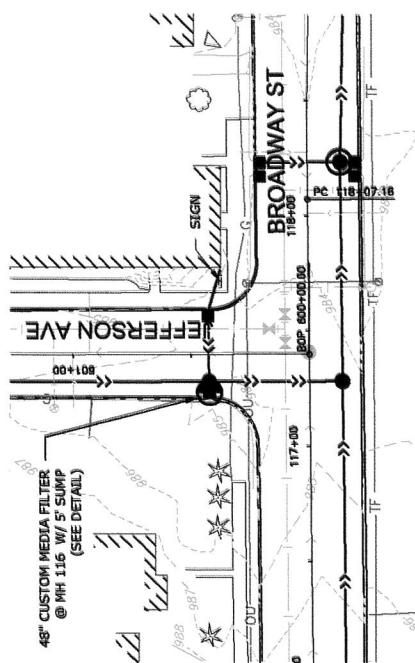
LINCOLN STREET @ MH 168



MOUND STREET @ MH 174



PARK STREET @ MH 123



JEFFERSON AVENUE @ MH 116

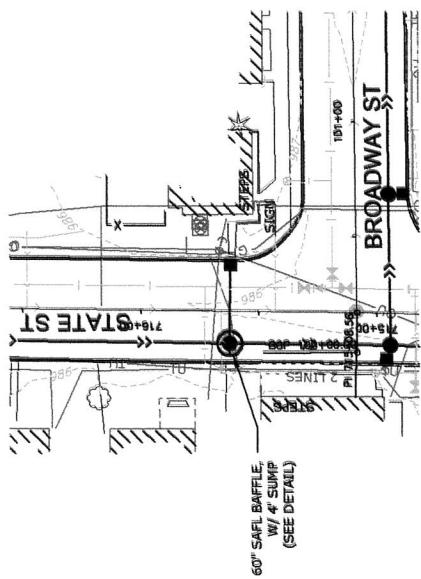
CONSTRUCTION NOTES:

1. ALL FILTERS TO BE 48" CUSTOM CATCH BASIN MEDIA FILTERS (SEE DETAIL).
2. PROPOSED UTILITIES ARE SHOWN PER NEW (CIR) PROJECT PLANS FOR THE 2012 NEW GERMANY RECONSTRUCTION PROJECT. EXISTING UTILITIES OWNED AND MAINTAINED BY THE CITY OF NEW GERMANY ARE NOT SHOWN.
3. ALL UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR RESPONSIBLE FOR FIELD REIDENTIFICATION AND AVOIDANCE.
4. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION. ANY UNPLANNED UTILITY DISRUPTION SHALL BE REPAID AS INDICATED OR APPROVED EQUIVALENT.
5. EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED TO ENGINEER FOR APPROVAL A MINIMUM OF 5 BUSINESS DAYS PRIOR TO ID CLOSING DATE.

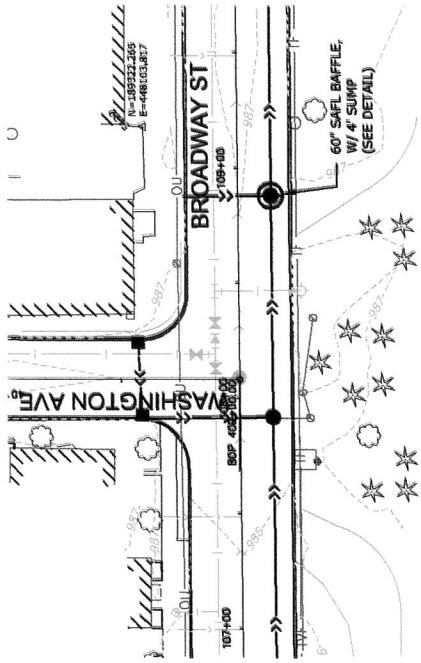
NEW GERMANY STORMWATER TREATMENT RETROFIT	CARRIER COUNTY WATER MANAGEMENT ORGANIZATION
CATCH BASIN FILTER LOCATIONS	SHEET 3 of 7

DATE: 05/25/2012	BY: DAVID W. PIERCE
PAGE: 5 of 23	

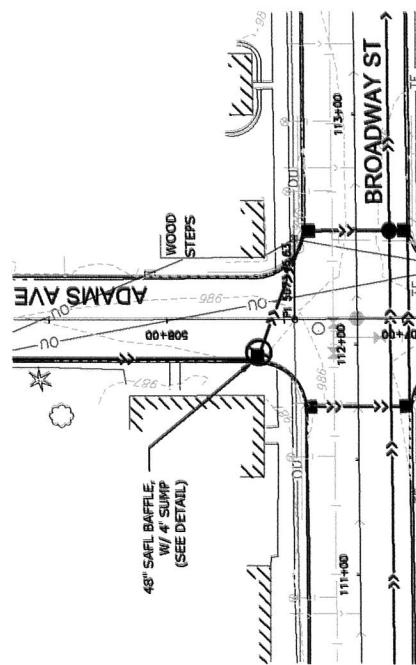
HYDROMETHODS, LLC
1551 Livingston Avenue, Suite 104
West St. Paul, MN 55118
c: 651.210.5713 | f: 651.219.1273



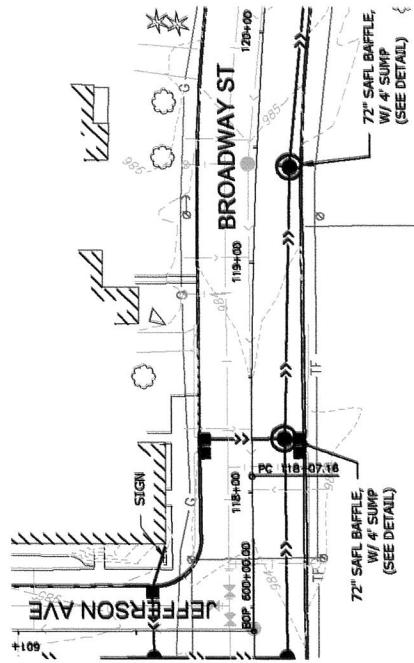
STATE STREET @ MH 147



BROADWAY STREET @ MH 133



ADAMS AVENUE @ MH 130



BROADWAY STREET @ MH 109 & 108

PC

118+00

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118+16

T.F.

118+32

T.F.

118+48

T.F.

118+64

T.F.

118+80

T.F.

118+96

T.F.

119+12

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120+1896

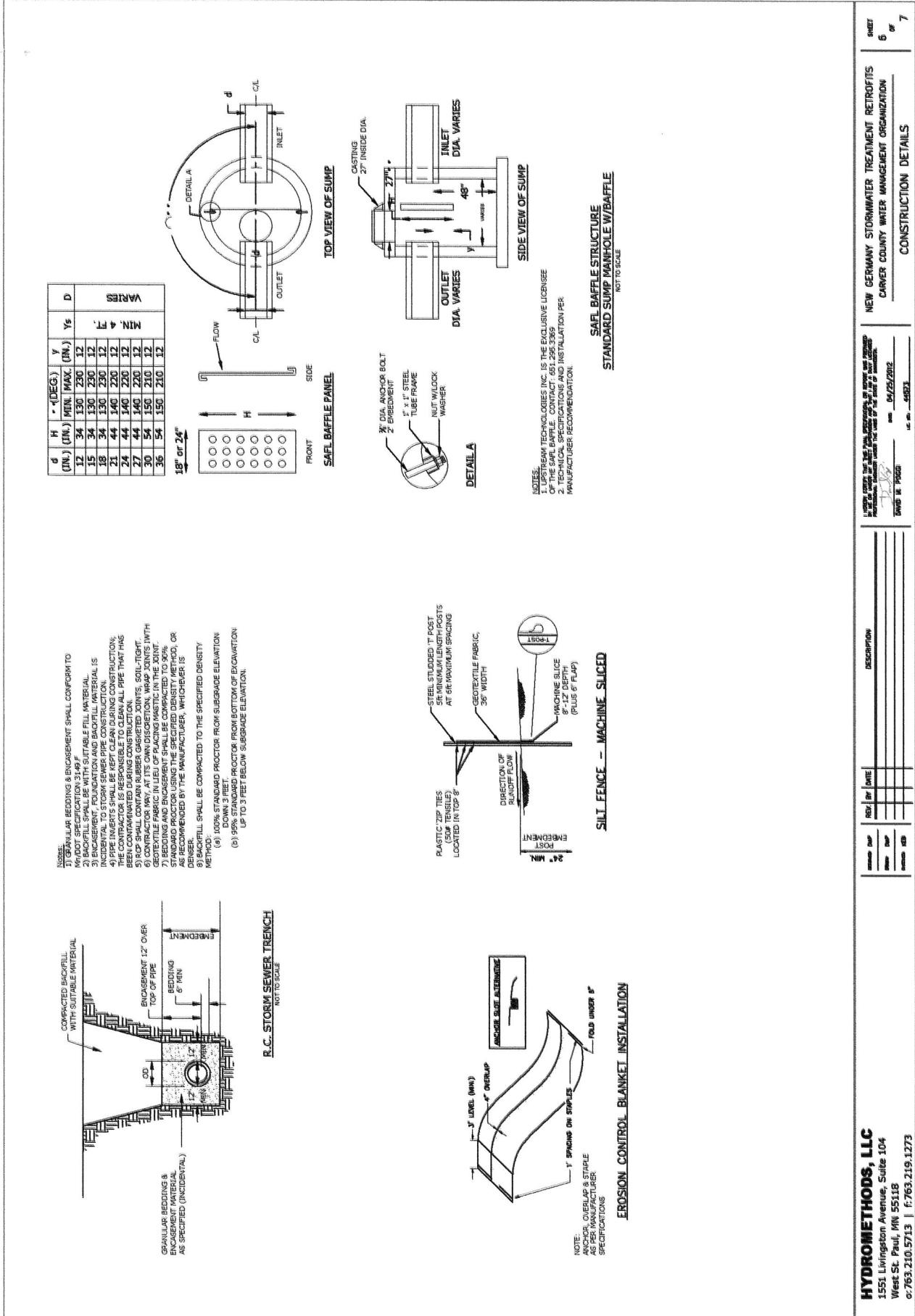
T.F.

120+1912

T.F.

120+1928

T.F.



NEW GERMANY STORMWATER TREATMENT RETROFIT
CARVER COUNTY WATER MANAGEMENT ORGANIZATION

Sheet 6 of 7

5/25/2012

DAVID R. PUGH

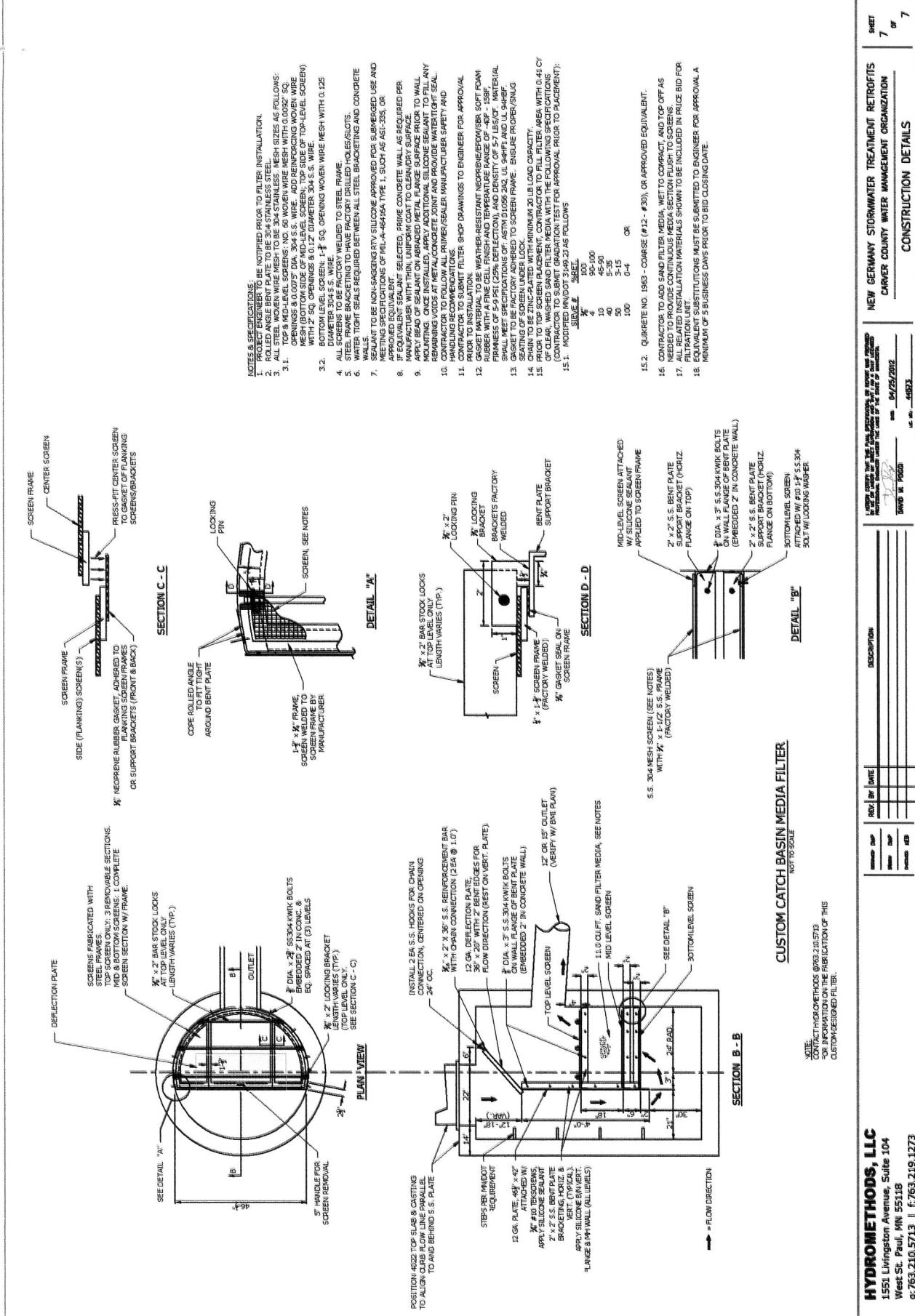
500-503

STANDARD SUMP MANHOLE W/BAFFLE

NOT TO SCALE

ITEM	REV.	DATE	DESCRIPTION
1	1	1	
2	1	1	
3	1	1	
4	1	1	
5	1	1	

C:\V\HydroMethods\Projects\007-COMWD New Germany Stormwater Retention\AutoCAD\Blocks.dwg 4/25/2012 4:12:11 PM



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