



Village of Menomonee Falls  
W156 N8480 Pilgrim Road  
Menomonee Falls, WI 53051-3140  
Telephone: (262) 532-4200

## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

|                        |            |                              |                           |
|------------------------|------------|------------------------------|---------------------------|
| Quarter Section        | 11 NW      | Name of Business/Subdivision | VMF COMMUNITY CENTER      |
| Property Tax ID Number | 0042973005 | Address of Property          | W153 N8681 MARGARET RD    |
|                        |            |                              | MENOMONEE FALLS, WI 53051 |

|          |   |
|----------|---|
| Dry Pond | X |
| Wet Pond |   |
| Other    |   |

Description: SWP11N003

Location Of Pond EAST OF ENTRANCE TO  
COMMUNITY CENTER OFF OF  
MENO RVR PKWY

Year Pond Constructed 1995 Year of Last Certification 2013

| Compliance Verification                  | Design (Non-AsBuilt) | Actual (GPS) | Compliant Yes No |   | Comments (Condition of Structure)                                   |
|------------------------------------------|----------------------|--------------|------------------|---|---------------------------------------------------------------------|
| <b>Primary Outlet Pipe</b><br>(ST011224) |                      |              |                  |   | Outlet Pipe Material                                                |
| Opening Diameter (inches)                | 24"                  | 24"          | -                | - | 24" RCP IN GOOD CONDITION, RIP RAP IN END SECTION                   |
| Upstream Invert                          | 759.40               | 759.27       | -                | - | 24" RCP IN GOOD CONDITION, RIP RAP IN END SECTION                   |
| Downstream Invert                        | 758.60               | 758.78       | -                | - | 24" RCP IN GOOD CONDITION, RIP RAP IN END SECTION                   |
| Length (feet)                            | 75.0 FT              | 70.4 FT      | -                | - | FROM: COMPLETELY ENCLOSED RCP TO: COMPLETELY ENCLOSED RCP           |
| Slope (%)                                | 0.0080'%,            | 0.0070'%,    | -                | - | ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY |
| <b>Secondary Outlet Pipe</b>             | N/A                  |              |                  |   | Outlet Pipe Material                                                |
| Opening Diameter (inches)                |                      |              | -                | - |                                                                     |
| Upstream Invert                          |                      |              | -                | - |                                                                     |
| Downstream Invert                        |                      |              | -                | - |                                                                     |
| Length (feet)                            |                      |              | -                | - |                                                                     |
| Slope (%)                                |                      |              | -                | - |                                                                     |
| <b>Riser</b>                             | N/A                  |              |                  |   | Riser Material                                                      |
| Opening Diameter (inches)                |                      |              | -                | - |                                                                     |
| Elevation                                |                      |              | -                | - |                                                                     |
| <b>Upper Discharge Control</b>           | N/A                  |              |                  |   |                                                                     |
| Opening Diameter (inches)                |                      |              | -                | - |                                                                     |
| Elevation                                |                      |              | -                | - |                                                                     |

| Compliance Verification                                | Design               | Actual     | Compliant<br>Yes    No            |   | Comments                                     |                                                                                                                                                            |
|--------------------------------------------------------|----------------------|------------|-----------------------------------|---|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lower Discharge Control                                | N/A                  |            |                                   |   |                                              |                                                                                                                                                            |
| Opening Diameter (inches)                              |                      |            | -                                 | - |                                              |                                                                                                                                                            |
| Elevation                                              |                      |            | -                                 | - |                                              |                                                                                                                                                            |
| Other (Description)                                    | N/A                  |            |                                   |   |                                              |                                                                                                                                                            |
| Opening Type and Size (inches)                         |                      |            | -                                 | - |                                              |                                                                                                                                                            |
| Elevation                                              |                      |            | -                                 | - |                                              |                                                                                                                                                            |
| Emergency Spillway                                     |                      |            |                                   |   |                                              |                                                                                                                                                            |
| Elevation                                              | -                    | -          | -                                 | - | NO SPILLWAY DETAILED IN ORIGINAL PLANS       |                                                                                                                                                            |
| Length of spillway (feet)                              | -                    | -          | -                                 | - |                                              |                                                                                                                                                            |
| Embankment                                             | Present<br>Yes    No |            | Comments/Maintenance Requirements |   |                                              |                                                                                                                                                            |
| Unauthorized Plantings, trees, or woody vegetation     | -                    | N          |                                   |   |                                              |                                                                                                                                                            |
| Animal burrows or slope erosion or hole                | -                    | N          |                                   |   |                                              |                                                                                                                                                            |
| Storm Sewer Outfalls                                   | Type & Size          |            | Location                          |   | Comments                                     |                                                                                                                                                            |
| Outfall 1 (ST011223)                                   | RCP - 24"            |            | NORTH EMBANKMENT                  |   | RCP IN GOOD CONDITION, RIPRAP IN END SECTION |                                                                                                                                                            |
| Outfall 2                                              |                      |            |                                   |   |                                              |                                                                                                                                                            |
| Outfall 3                                              |                      |            |                                   |   |                                              |                                                                                                                                                            |
| Storage Properties                                     | Design               | Actual     | Compliant<br>Yes    No            |   | Not Applicable                               | Equipment Used                                                                                                                                             |
| Normal Water Elevation (Wet Ponds)                     | -                    | -          | -                                 | - | N/A                                          | GPS EQUIPMENT:<br>GEOMAX ZENITH 35 &<br>CARLSON SURVEYOR2<br>WITH SURV CE v5.04<br><br>ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY |
| Design High Water Elevation                            | 763.00               | 763.00     | -                                 | - |                                              |                                                                                                                                                            |
| Area at Normal Water Elevation (Ac) (Wet Ponds)        | -                    | -          | -                                 | - | N/A                                          |                                                                                                                                                            |
| Area at Design High Water Elevation (Ac)               | -                    | 0.164 AC   | -                                 | - |                                              |                                                                                                                                                            |
| Active Storage Available (Ac-Ft)*                      | -                    | 0.639 ACFT | -                                 | - |                                              |                                                                                                                                                            |
| Lowest Elevation at Top of Embankment (If Applicable)  | 763.00               | 763.00     | -                                 | - |                                              |                                                                                                                                                            |
| Average Elevation at Top of Embankment (If Applicable) | -                    | 763.30     | -                                 | - |                                              |                                                                                                                                                            |
| Maximum Bottom Elevation                               | 760.00               | 760.60     | -                                 | - |                                              |                                                                                                                                                            |
| Average Pond Bottom Elevation                          | 760.00               | 760.30     | -                                 | - |                                              |                                                                                                                                                            |
| Pond Bottom Area (Ac)                                  | -                    | 0.066 AC   | -                                 | - |                                              |                                                                                                                                                            |
| Maximum Pond Depth                                     | 3.0 FT               | 3.73 FT    | -                                 | - |                                              |                                                                                                                                                            |
| Average Pond Depth                                     | 3.0 FT               | 2.70 FT    | -                                 | - |                                              |                                                                                                                                                            |
| Average Permanent Pool Depth (Wet Ponds)               | -                    | -          | -                                 | - | N/A                                          |                                                                                                                                                            |

\*To Determine Active Storage  $V = \left( \left( \frac{H}{3} \right) \left( A_1 + A_2 + \left( \left( A_1 + A_2 \right)^{\left( \frac{1}{2} \right)} \right) \right) \right)$

Wet Ponds Use  $H$  = Height of Section ,  $A_1$ = area at normal water elevation,  $A_2$ =area at top section

Dry Ponds Use  $H$ = Height of Section,  $A_1$ = pond bottom area,  $A_2$ =area at top section

# Margaret Rd Retention Pond (East) – SWP11N003

## Overview



## Outlet ST011223



## Margaret Rd Retention Pond (East) – SWP11N003

Inlet ST011224



Repairs Needed (8/2018)

None

*Sketch Outlet*

*Place Photograph of Pond*

*Place Photograph of Pond*

Inspection Firm: VILLAGE OF  
MENOMONEE FALLS  
Phone Number: 262-532-4411  
Address: W156N8480 PILGRIM RD  
MENOMONEE FALLS, WI  
53051

Inspector Name : CHRISTOPHER M GARIEPY

Inspection Date: 08/08/2018

Certifying Professional Name: THOMAS M. HOFFMAN, P.E.  
Phone Number: (262) 532-4415



Date: 4/3/2019

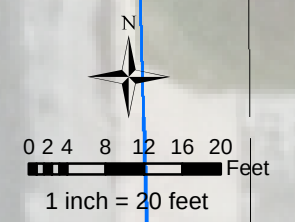
Signature: 

*Affix Seal Here*



MN  
N85W15382 M  
VILLAGE O

SWP11N002-SWP11N003  
Margaret Ave - MF School Dist  
MNFV0042973005  
Pond Inspection 080818 CMG BEC

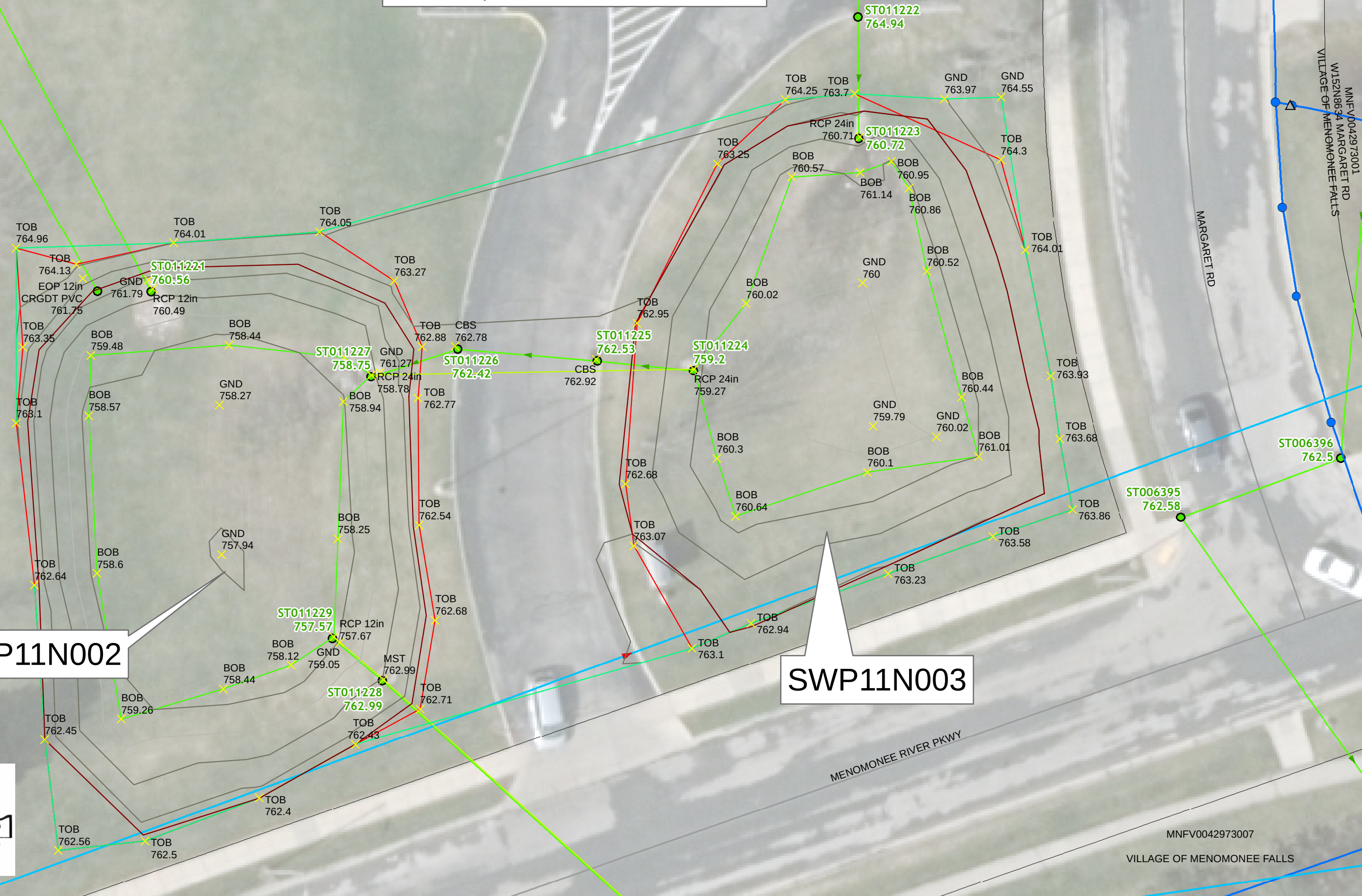


SWP11N002

SWP11N003



MNFV0042973007  
VILLAGE OF MENOMONEE FALLS



$$H = 763.00 - 760.30 = 2.7'$$

2018

$$A_1 = 0.066 \text{ AC}$$

11N003

$$A_2 = 0.164 \text{ AC}$$

Marginal Pool East

$$V = \left( \frac{H}{3} \right) (A_1 + A_2 + \sqrt{A_1 A_2})$$

$$V = \left( \frac{2.7 \text{ FT}}{3} \right) (0.066 \text{ AC} + 0.164 \text{ AC} + \sqrt{0.066 \text{ AC} \times 0.164 \text{ AC}})$$

$$V = (0.9 \text{ FT}) (0.23 \text{ AC} + \sqrt{0.23 \text{ AC}})$$

$$V = (0.9 \text{ FT}) (0.23 \text{ AC} + 0.480 \text{ AC})$$

$$V = (0.9 \text{ FT}) (0.71 \text{ AC})$$

$$V = 0.639 \text{ ACFT} \checkmark \text{ cng } 8/5/18$$

$$\text{SWP11N002} = 1.084 \text{ ACFT}$$

$$+ \text{SWP11N003} = 0.639 \text{ ACFT}$$

$$\boxed{1.723 \text{ ACFT}}$$