



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  
Property Tax ID Number  
Date 08/06/19

NE1/4 24-8-20  
MNFV00939  
47004

Name of Business/Subdivision  
Address of Property

Northfield Manor  
Northfield Dr.  
Menomonee Falls, WI

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

Pond ID: SWP24N001

Location of  
Pond

Northwest portion of site  
Lot 2 of CSM No. 9878

Year Pond  
Constructed

2004

Year of Last  
Certification

2014

| Compliance Verification        | Design          | Actual | Compliant<br>Yes      No | Comments<br>( Condition of Structure) |
|--------------------------------|-----------------|--------|--------------------------|---------------------------------------|
| <b>Primary Outlet Pipe</b>     |                 |        |                          | Outlet Pipe Material                  |
| Opening Diameter<br>(inches)   | 12"             | 12"    | X                        | Concrete                              |
| Upstream Invert                | 795.00          | 794.98 | X                        |                                       |
| Downstream Invert              | 794.00          | 793.72 | X                        |                                       |
| Length<br>(feet)               | 500.0'          | 499.7  | X                        |                                       |
| Slope<br>(%)                   | 0.20%           | 0.25%  | X                        |                                       |
| <b>Secondary Outlet Pipe</b>   | (If Applicable) |        |                          | Outlet Pipe Material                  |
| Opening Diameter (inches)      |                 |        |                          |                                       |
| Upstream Invert                |                 |        |                          |                                       |
| Downstream Invert              |                 |        |                          |                                       |
| Length (feet)                  |                 |        |                          |                                       |
| Slope (%)                      |                 |        |                          |                                       |
| <b>Riser</b>                   | (If Applicable) |        |                          | Riser Material                        |
| Opening Diameter (inches)      |                 |        |                          |                                       |
| Elevation                      |                 |        |                          |                                       |
| <b>Upper Discharge Control</b> | (If Applicable) |        |                          |                                       |
| Opening Diameter (inches)      |                 |        |                          |                                       |
| Elevation                      |                 |        |                          |                                       |

| Compliance Verification                                      | Design            | Actual | Compliant<br>Yes No  |                | Comments                        |
|--|-------------------|--------|--|----------------|---------------------------------|
| <b>Lower Discharge Control</b>                               | (If Applicable)   |        |  |                |                                 |
| Opening Diameter<br>(inches)                                 |                   |        |  |                |                                 |
| Elevation  |                   |        |  |                |                                 |
| <b>Other (Description)</b>                                   |                   |        |  |                |                                 |
| Opening Type and Size<br>(inches)                            | 5"                | 6"     | X  |                | Vertical orifice                |
| Elevation  | 795.00            | 794.98 | X  |                |                                 |
| <b>Emergency Spillway</b>                                    |                   |        |  |                |                                 |
| Elevation  | 799.50            | 801.08 | X  |                |                                 |
| Length of spillway<br>(feet)                                 | 20.0'             | 120'   | X  |                |                                 |
| <b>Embankment</b>  | Present<br>Yes no |        | Comments/Maintenance Requirements  |                |                                 |
| Unauthorized Plantings,<br>trees, or woody vegetation        | X                 |        | Some vegetation in permanent water area, requires<br>maintenance / removal |                |                                 |
| Animal burrows or slope<br>erosion                           |                   | X      |  |                |                                 |
| <b>Storm Sewer Outfalls</b>                                  | Type & Size       |        | Location   |                | Comments                        |
| Outfall 1  | 15" RCP           |        | SW. COR. OF POND   |                | HEAVEY VEGETATION               |
| Outfall 2  |                   |        |  |                |                                 |
| Outfall 3  |                   |        |  |                |                                 |
| <b>Storage Properties</b>                                    | Design            | Actual | Compliant<br>Yes No  | Not Applicable | Equipment Used                  |
| Normal Water Elevation<br>(Wet Ponds)                        | 795.00            | 795.25 | X  |                | TRIMBLE R6 GPS<br>TRIMBLE S6 TS |
| Design High Water<br>Elevation                               | 798.58            | 798.58 | X  |                |                                 |
| Area at Normal Water<br>Elevation (Ac) (Wet Ponds)           | 0.115             | 0.110  | X  |                |                                 |
| Area at Design High<br>Water Elevation (Ac)                  | 0.213             | 0.230  | X  |                |                                 |
| Active Storage Available<br>(Ac-Ft)*                         | 0.920             | 0.573  | X  |                |                                 |
| Lowest Elevation at Top<br>of Embankment<br>(If Applicable)  | 799.50            | 800.1  | X  |                |                                 |
| Average Elevation at Top<br>of Embankment<br>(If Applicable) | 800.50            | 801.0  | X  |                |                                 |
| Maximum Bottom<br>Elevation                                  | 790.00            | 788.1  | X  |                |                                 |
| Average Pond Bottom<br>Elevation                             | 790.00            | 788.50 | X  |                |                                 |
| Pond Bottom Area (Ac)  | 0.013             | 0.011  | X  |                |                                 |
| Maximum Pond Depth   | 5.0'              | 7.15'  | X  |                |                                 |
| Average Pond Depth   | 5.0'              | 6.75'  | X  |                |                                 |
| Average Permanent Pool<br>Depth (Wet Ponds)                  | 5.0'              | 6.75   | X  |                |                                 |

\*To Determine Active Storage  $V=H/3(A1+A2+(A1xA2)1/2)$

Wet Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{area at normal water elevation}$ ,  $A2 = \text{area at top section}$

Dry Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{pond bottom area}$ ,  $A2 = \text{area at top section}$

Sketch Outlet or Attach to Document

**See Attached**

Place Photograph of Pond or Attach to Document

**See Attached**

Place Photograph of Pond or Attach to Document

**See Attached**

Attach As-built Survey to the Document for the first report submission

Inspection Firm: JSD Professional Services  
Phone Number: 262.513.0666  
Address: W238 N1610 Busse Rd  
Suite 100  
Waukesha, WI 53188

Inspector Name : David Nash  
Inspection Date: August 3, 2019

Certifying Professional

Name: Rizal W. Iskandarsjach P.L.S., P.E.  
Phone Number: 262.513.0666

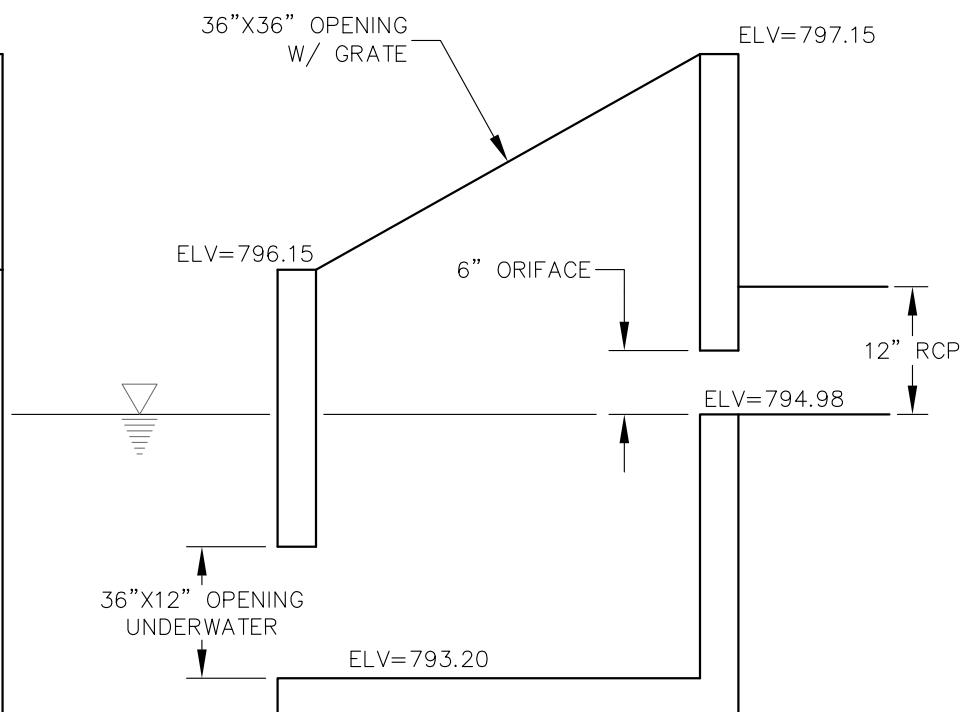
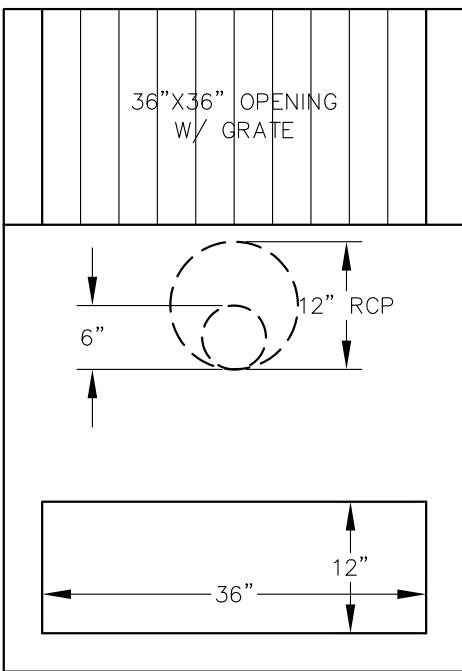
Date:  
August 6, 2019

Signature:

*Rizal Iskandarsjach*



Affix Seal Here



## EXIST OUTLET DETAIL

N.T.S.

SWMP Inspection Photos SWP24N001 (7/1/19) – Village of Menomonee Falls, WI



**Figure 1: At north portion of pond; looking southerly to storm outfall**



**Figure 2: At southwest portion of pond; looking southwesterly (storm outfall)**

SWMP Inspection Photos SWP24N001 (7/1/19) – Village of Menomonee Falls, WI



Figure 3: At southwest of pond; looking southeasterly to storm outfall into pond



Figure 4: At southwest portion of pond; looking northeasterly (pond outlet and emergency spillway)



**Figure 5: At northeast portion of pond; looking easterly (pond outlet structure)**



**Figure 6: At northeast portion of pond; looking easterly (emergency spillway)**

