



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 NE1/4 24-8-20 Name of Business/Subdivision Northfield Manor
Property Tax ID Number MNFV00939 Address of Property --- Northfield Dr.
47004
Date 08/06/19 Menomonee Falls, WI

Dry Pond	
Wet Pond	X
Other	

Location of Pond Southeast portion of site
Lot 2 of CSM No. 9878
Pond ID: SWP24N002

Year Pond Constructed 2004 Year of Last Certification 2014

Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X	Concrete
Upstream Invert	784.00	784.06	X	
Downstream Invert	783.00	782.87	X	
Length (feet)	90.0'	78.0'	X	
Slope (%)	1.11%	1.53%	X	
Secondary Outlet Pipe	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
Riser	(If Applicable)			Riser Material
Opening Diameter (inches)				
Elevation				
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)				
Elevation				

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)						
Elevation						
Other (Description)						
Opening Type and Size (inches)	4.5"	6"	X		Vertical orifice HEAVY DEBRIS	
Elevation	784.00	784.06	X			
Emergency Spillway						
Elevation	789.50	787.75	X			
Length of spillway (feet)	20.0'	40'	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		Maintenance Required: removal of woody vegetation			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	15" RCP		SW COR. OF POND		HEAVY VEGETATION	
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	784.00	784.30	X			TRIMBLE R6 GPS TRIMBLE S6 TS
Design High Water Elevation	788.31	788.10	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.353	0.29	X			
Area at Design High Water Elevation (Ac)	0.580	0.501	X			
Active Storage Available (Ac-Ft)*	2.33	1.496	X			
Lowest Elevation at Top of Embankment (If Applicable)	789.50	788.3	X			
Average Elevation at Top of Embankment (If Applicable)	790.50	789.8	X			
Maximum Bottom Elevation	779.00	776.79	X			
Average Pond Bottom Elevation	779.00	778.0	X			
Pond Bottom Area (Ac)	0.125	0.073	X			
Maximum Pond Depth	5.0'	7.51'	X			
Average Pond Depth	5.0'	6.3	X			
Average Permanent Pool Depth (Wet Ponds)	5.0'	6.3'	X			

*To Determine Active Storage $V = H/3(A1 + A2 + (A1 \times A2)^{1/2})$

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

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

<p><i>Sketch Outlet or Attach to Document</i></p> <p>See Attached</p>	<p style="text-align: center;"><i>Place Photograph of Pond or Attach to Document</i></p> <p style="text-align: center;">See Attached</p>
	<p style="text-align: center;"><i>Place Photograph of Pond or Attach to Document</i></p> <p style="text-align: center;">See Attached</p>

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

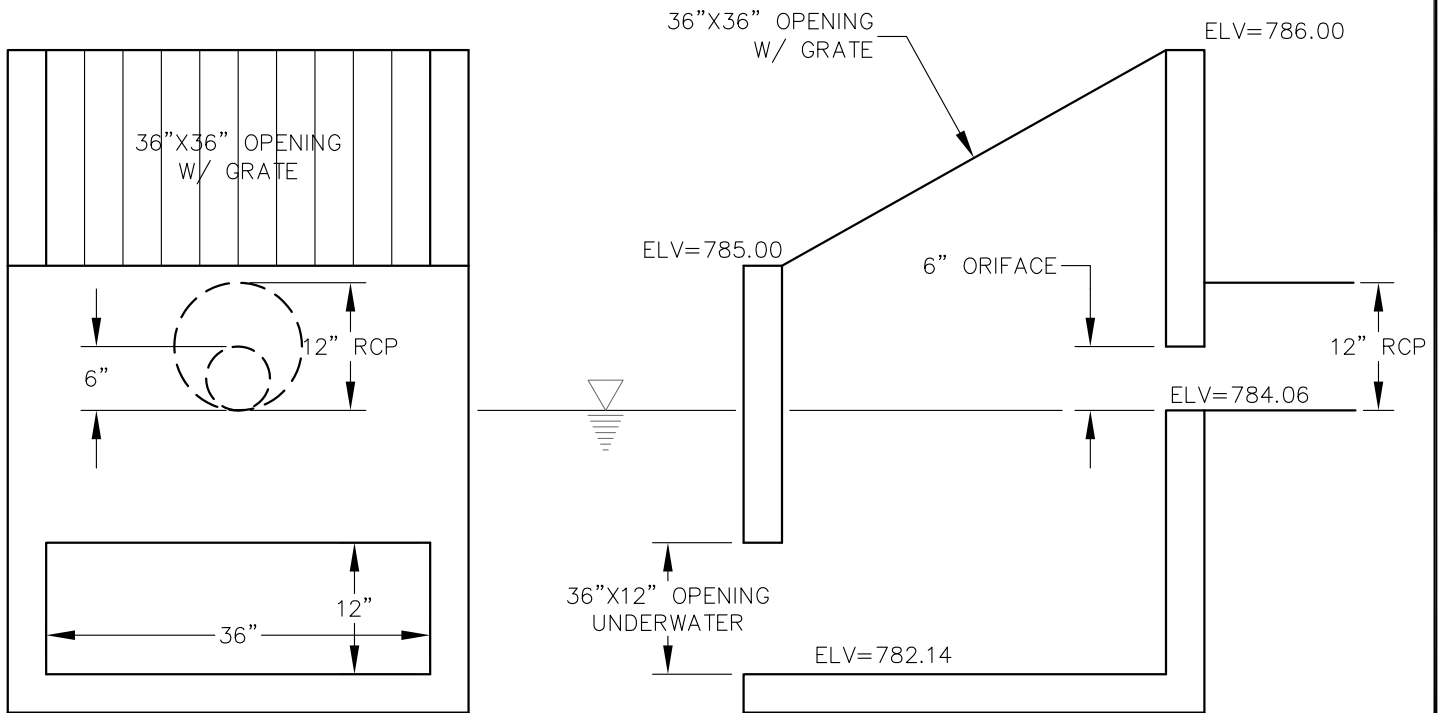
Inspection Firm:	JSD Professional Services	Inspector Name :	David Nash
Phone Number:	262.513.0666	Inspection Date:	August 3, 2019
Address:	W238 N1610 Busse Rd		
	Suite 100		
	Waukesha, WI 53186		

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



<p>Date:</p> <p style="text-align: center;">August 6, 2019</p>	<p>Signature:</p> <p style="text-align: center;"><i>Rizal Iskandarsjach</i></p>
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Affix Seal Here



EXIST OUTLET DETAIL

N.T.S.

File: R:\2014\14C6233 NorthHillsPonds\dwg\14C6233 Pond Detail.dwg Layout: D-2

JSD Professional Services, Inc.
 o Engineers o Surveyors o Planners

MILWAUKEE REGIONAL OFFICE
 N22 W22931 NANCY'S COURT SUITE 3
 WAUKESHA, WISCONSIN 53186
 262.513.0666 PHONE | 262.513.1232 FAX

www.jsdinc.com

PROJECT:

**NORTHFIELD MANOR
 POND CERTIFICATION
 VILLAGE OF MENOMONEE FALLS, WI**

SHEET TITLE:

**SWP24N002
 POND OUTLET
 DETAIL**

JSD PROJECT NUMBER:

14-6180

DRAWN BY: CHECKED BY:

IRN RWI

DATE:

8-7-19

SHEET NUMBER:

D-2



Figure 1: At north portion of pond; looking southerly (storm outfall and pond outlet)



Figure 2: At north portion of pond; looking northerly (rip rap)



Figure 3: At south portion of pond; looking westerly (storm outfall)



Figure 4: At south portion of pond; looking northerly (pond outlet structure)



Figure 5: At south portion of pond; looking northerly, pond in background (emergency spillway)



Figure 6: Approximately 80 feet south of pond; looking northerly (pond overflow outlet)



Figure 7: At south portion of pond; looking northerly (rip rap)

