



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.
 Date 05/29/14 47004
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 2010

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter (inches)	12"	12"			Outlet Pipe Material Concrete
Upstream Invert	784.00	784.06			
Downstream Invert	783.00	782.87			
Length (feet)	90.0'	78.0'			
Slope (%)	1.11%	1.53%			
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)					Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					
Opening Diameter (inches)					Riser Material
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"			Vertical orifice HEAVEY DEBRIS	
Elevation	784.00	784.06				
Emergency Spillway						
Elevation	789.50	788.1				
Length of spillway (feet)	20.0'	24'				
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation						
Animal burrows or slope erosion						
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	784.06				TRIMBLE R6 GPS
Design High Water Elevation	788.31	788.31				
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.353	0.286				
Area at Design High Water Elevation (Ac)	0.580	0.521				
Active Storage Available (Ac-Ft)*	2.33	2.195				
Lowest Elevation at Top of Embankment (If Applicable)	789.50	787.4				
Average Elevation at Top of Embankment (If Applicable)	790.50	789.1				
Maximum Bottom Elevation	779.00	776.72				
Average Pond Bottom Elevation	779.00	776.8				
Pond Bottom Area (Ac)	0.125	0.040				
Maximum Pond Depth	5.0'	7.3'				
Average Pond Depth	5.0'	7.3'				
Average Permanent Pool Depth (Wet Ponds)	5.0'	7.3'				

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

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

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

<p>Sketch Outlet or Attach to Document</p> <p>See Attached</p>	<p>Place Photograph of Pond or Attach to Document See Attached</p>
	<p>Place Photograph of Pond or Attach to Document See Attached</p>

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

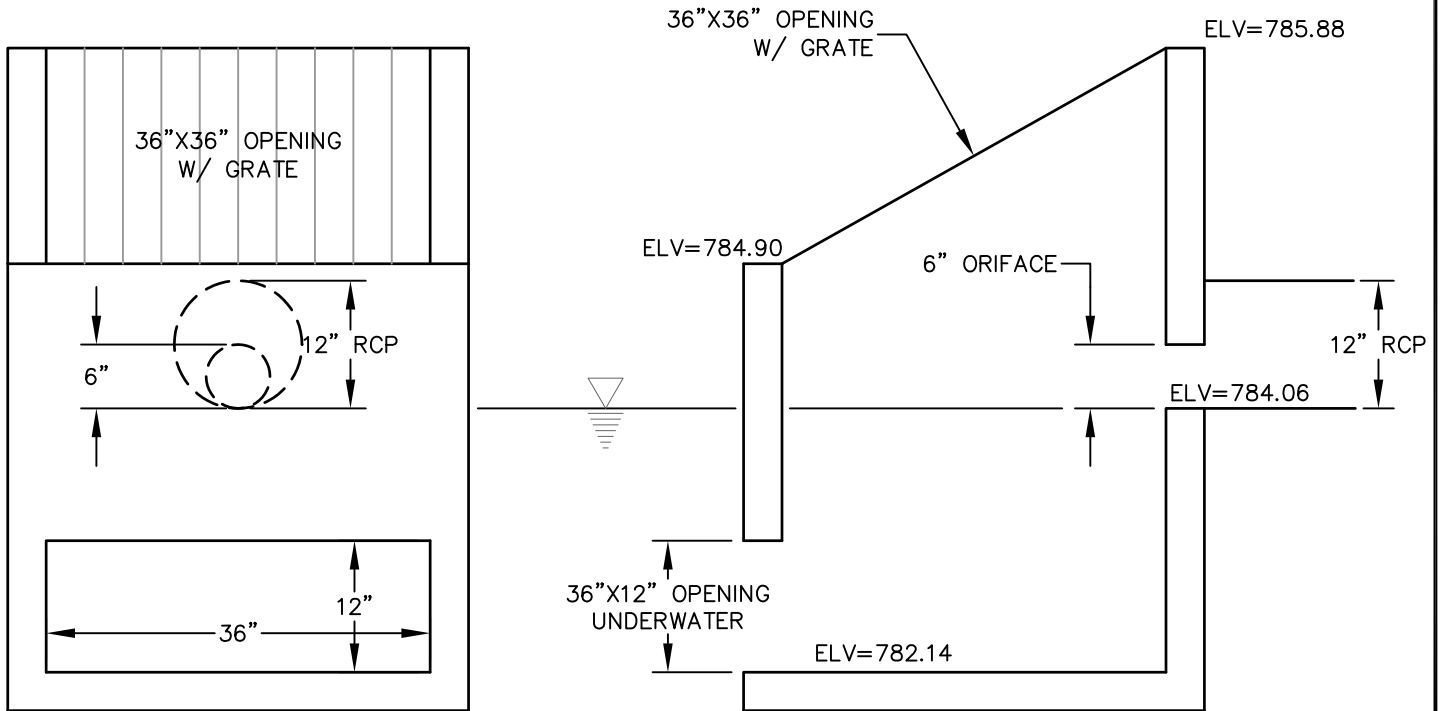
Inspection Firm: JSD Professional Services Inspector Name : Ryder Fischer
 Phone Number: 262.513.0666 Inspection Date: May 22, 2014
 Address: N22 W22931 Nancys Ct
 Suite 3
 Waukesha, WI 53186

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



<p>Date:</p> <p>May 29, 2014</p>	<p>Signature:</p>
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Affix Seal Here



EXIST OUTLET DETAIL

N.T.S.

File: R:\2014\1406233 NorthHillsPonds\dwg\1406233 Pond Detail.dwg Layout: D-2

JSD Professional Services, Inc.
 Engineers • Surveyors • 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: APM CHECKED BY: RWI
 DATE:
 05-29-14

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)