



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	NW ¼ of SEC 12	Name of Business/Subdivision	ER Wagner
Property Tax ID Number	MNFV00459	Address of Property	W130N8691 Old Orchard Rd
	96005		
Date 7/13/2021	8/9/2021		Menomonee Falls, WI 53051

Dry Pond	
Wet Pond	X
Other	

Location of Pond Southeast corner of property

Pond ID: SWP 12N014

Year Pond Constructed	2016	Year of Last Certification	2016
-----------------------	------	----------------------------	------

Compliance Verification	Design	Actual	Compliant Yes    No		Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	24"	24"	X		Concrete  Remove vegetation within riprap limits at downstream end of pipe.
Upstream Invert	766.6	766.60	X		
Downstream Invert	766.4	766.37	X		
Length (feet)	53.5	53.5'	X		
Slope (%)	0.37%	0.43%	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)				Concrete structure. Remove nest and vegetation in front of and on the outlet structure grate. Remove sediment from bottom of the structure.
Opening Diameter (inches)	24"x36" Grate	24"X36" Grate	X		
Elevation	768.75-769.50	768.68-769.59	X		

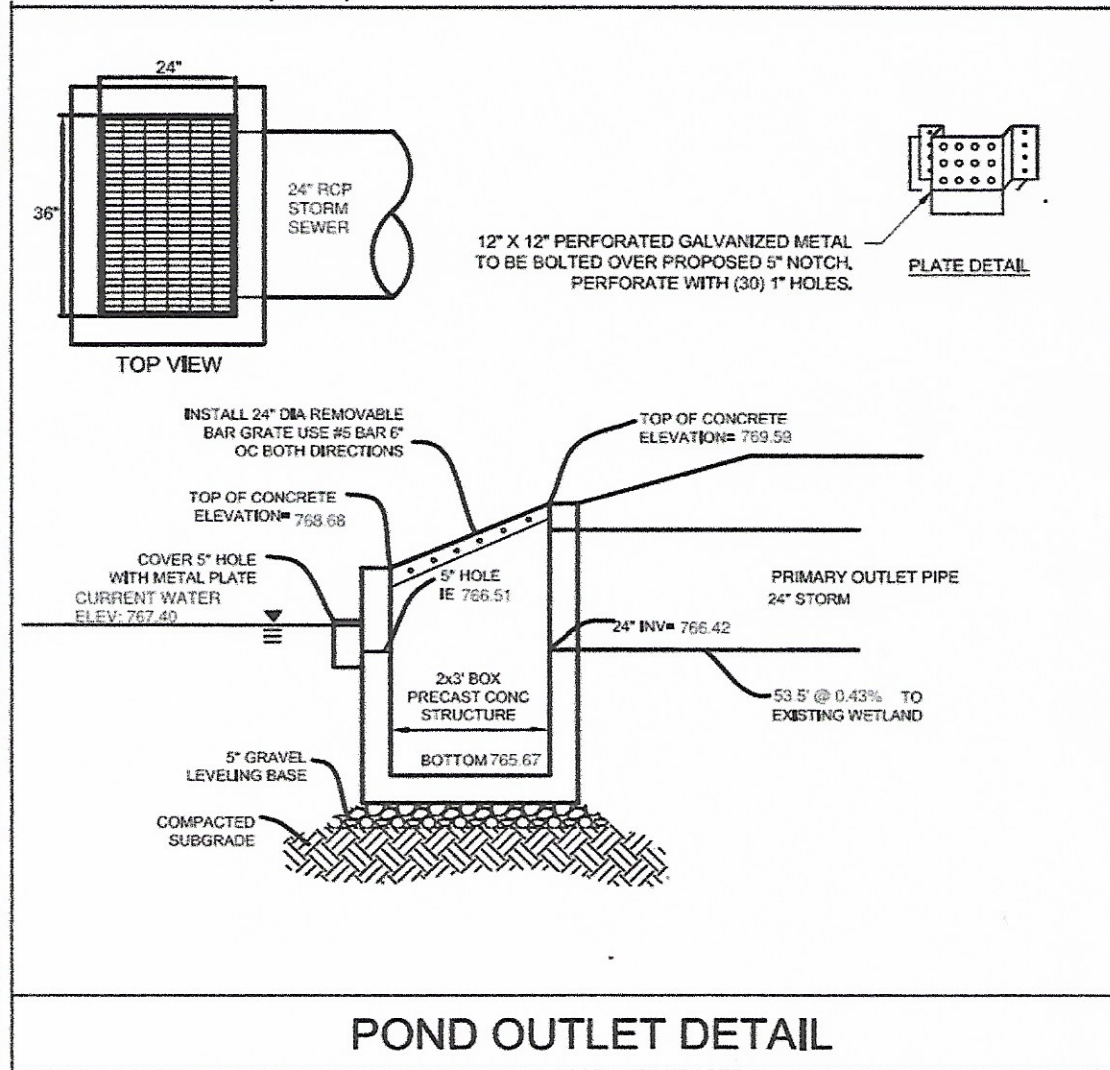
Compliance Verification	Design	Actual	Compliant Yes No		Comments	
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter (inches)	5"	5"	X		Remove cattails and other vegetation within 10' in front of pond outlet structure. Remove debris on outlet structure grate.	
Elevation	766.6	766.51	X		5" lower discharge opening. Remove vegetation from front plate.	
<b>Other (Description)</b>						
Opening Type and Size (inches)						
Elevation						
<b>Emergency Spillway</b>						
Elevation	771.9	771.44	X		Lowest elevation	
Length of spillway (feet)	20'	19'	X			
<b>Embankment</b>	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Fill animal burrow along the SE corner of the pond berm.			
Animal burrows or slope erosion	X					
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments	
Outfall 1	36" Plastic		West side of pond			
Outfall 2						
Outfall 3						
<b>Storage Properties</b>	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used Total station, GPS, and Civil 3d
Normal Water Elevation (Wet Ponds)	766.6	766.51	X			<div>Top of berm elevation</div> <div>Top of berm area</div> <div>Pond volume from average top of berm to normal water elevation</div> <div>Emergency spillway elevation</div>
Design High Water Elevation	773.0	772.80	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.61	0.61	X			
Area at Design High Water Elevation (Ac)	0.94	0.97	X			
Active Storage Available (Ac-Ft)*	4.96	4.97	X			
Lowest Elevation at Top of Embankment (If Applicable)	771.9	771.44	X			
Average Elevation at Top of Embankment (If Applicable)	773.0	772.80	X			
Maximum Bottom Elevation	761.0	760.37	X			
Average Pond Bottom Elevation	761.0	760.60	X			
Pond Bottom Area (Ac)	0.352	0.307	X			
Maximum Pond Depth	12	12.43'	X			
Average Pond Depth	12	12.20'	X			
Average Permanent Pool Depth (Wet Ponds)	5.6'	5.91'		X	Depth from normal water to bottom	

\*To Determine Active Storage  $V = (H/3)(A1 + A2 + (\sqrt{A1 \cdot A2}))$

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

**Outlet structure detail (actual)**



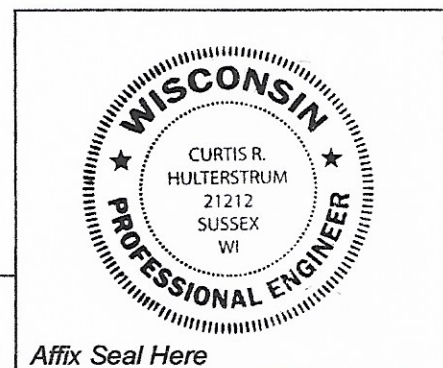
See attached sheets for site photos

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

Inspection Firm: Ayres Associates  
 Phone Number: (262)-523-4488  
 Address: 20975 Swenson Drive  
Suite 200  
Waukesha WI, 53186

Inspector Name: Austin Johrendt  
 Inspection Date: 7/13/2021

Certifying Professional Name: Curtis Hulterstrum  
 Phone Number: (262)-523-4488



Date: 8/9/21

Signature: Curtis R Hulterstrum



24" x 36" pond outlet structure. Maintenance required to remove vegetation in front of structure and remove nest on top of grate.



Site stormwater wet detention pond.





Outlet structure downstream endwall. 24" rcp pipe. Vegetation in front of structure needs to be removed.



Wet detention storm water pond.



Wet detention pond inflow pipe endwall. 36" plastic pipe.



24" rcp pipe out of the pond outlet structure. Some sediment build up in the structures sump that needs to be removed.