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 1/4 Sec. 36-8-20
Name of Business/Subdivision: Capital Heating and Cooling
Property Tax ID Number: 0142999010
Address of Property: W134 N5368 Campbell Dr.

Dry Pond	X
Wet Pond	
Other	

Description: SWP36N003

Location Of Pond: Basin is located east of building

Year Pond Constructed: 2006
Year of Last Certification: 2015

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	1.6"	1.6"	X		Outlet pipe is 8" in diameter, capped, with a 1.6" orifice hole drilled into cap
Upstream Invert	741.00	741.19	X		See Photo #1
Downstream Invert	740.00	740.10	X		
Length (feet)	69'	69'	X		
Slope (%)	1.45%	1.58%	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					Not Applicable - no secondary outlet
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	24"	24"	X		24" Concrete Structure w/beehive gate
Elevation	744.50	744.55	X		See Photo #2
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)					
Elevation					

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)					
Elevation					
Other (Description)					
Opening Type and Size (inches)					
Elevation					
Emergency Spillway					
Elevation	746.30	746.10	X		See Photo #3, weedy vegetation should be removed
Length of spillway (feet)	25'	24.5'	X		

Embankment	Present Yes	Present no	Comments/Maintenance Requirements
Unauthorized Plantings, trees, or woody vegetation	X		See Photo #4 and #5, the bottom and side slopes of the basin is recommended to be mowed twice per year to a 6"-8" height, all woody vegetation and trees shall be removed
Animal burrows or slope erosion		X	

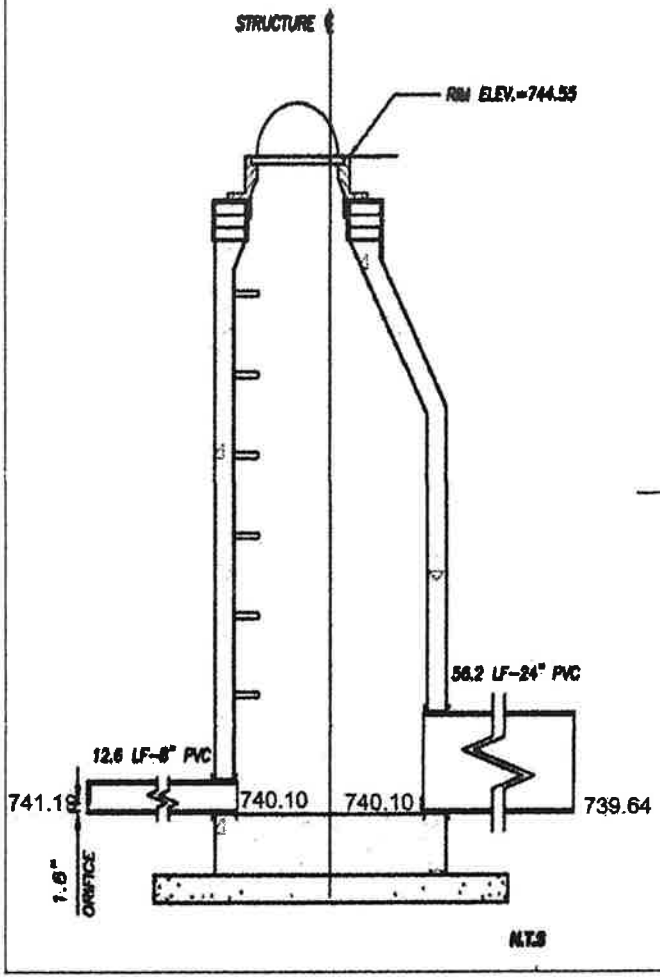
Storm Sewer Outfalls	Type & Size	Location	Comments
Outfall 1	6" PVC	West slope of basin	Significant erosion, recommend restoring riprap outfall, see Photo #6
Outfall 2			
Outfall 3			

Storage Properties	Design	Actual	Compliant Yes	Compliant No	Not Applicable	Equipment Used
Normal Water Elevation *(Wet Ponds)*					X	Laser Level, utilizing outlet structure grate as benchmark elevation Water levels and areas calculated utilizing AutoCAD and HydroCAD
Design High Water Elevation	744.32	744.59	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)					X	
Area at Design High Water Elevation (Ac)	0.096	0.092	X			
Active Storage Available (Ac-Ft)*	0.501	0.463	X			
Lowest Elevation at Top of Embankment (If Applicable)	746.30	746.73	X			
Average Elevation at Top of Embankment (If Applicable)	747.00	747.08	X			
Maximum Bottom Elevation	741.00	741.19	X			
Average Pond Bottom Elevation	741.00	741.32	X			
Pond Bottom Area (Ac)	0.014	0.011	X			
Maximum Pond Depth	5.3'	5.54'	X			
Average Pond Depth					X	
Average Permanent Pool Depth *(Wet Ponds)*					X	

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

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*



Place Photograph of Pond

See attached photos
See Photo #7 for final outfall pipe

Place Photograph of Pond

Inspection Firm:	Drainage Doctor, LLC	Inspector Name :	Tyler Smith, PE
Phone Number:	608.535.9380	Inspection Date:	October 14, 2020
Address:	418 W Red Pine Circle		
	Dousman, WI 53811		

Certifying Professional Name:	Tyler Smith, PE
Phone Number:	608.535.9380

WISCONSIN
TYLER A. SMITH
41151-006
MADISON, WI
PROFESSIONAL ENGINEER

Affix Seal Here

Date:	*Signature:*
10/28/2020	Tyler Smith

DRAINAGE DOCTOR

PHOTOS

October 14, 2020

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Photo #1: Outlet pipe with 1.6" orifice

Photo #2: Outlet structure/stand pipe

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Photo #3: Emergency Spillway

Photo #4: Overall basin looking south

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Photo #5: Overall basin, looking north

Photo #6: Erosion at 6" outall pipe

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Photo #7: Basin outfall pipe