



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 02 SW Name of Business/Subdivision HARLEY DAVIDSON
Property Tax ID Number CTH YY ROW Address of Property W156N9000 PILGRIM RD
MENOMONEE FALLS, WI 53051

Dry Pond	
Wet Pond	X
Other	

Description: SWP02N016 Location Of SE CORNER OF PILGRIM RD &
P-0158 Pond MEGAL CT

Year Pond Constructed 2015 Year of Last Certification N/A

Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches) (ST015376)	12"	12"	Y		12" RCP INLET PIPE NOT FOUND IN CATTAILS AND MUDDY BOTTOM OF SAFETY SHELF. HOLE OBSERVED IN DRY GROUND NEAR WATER LEVEL, PRESUMED TO BE ABOVE RCP AT A JOINT.
Upstream Invert	797.00	NOT FOUND	-		
Downstream Invert	797.00	796.76	Y		
Length (feet)	46.0	-	-		
Slope (%)	1.00%	-	-		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)	24"	24"	Y		IN GOOD CONDITION.
Upstream Invert	804.00	803.76	Y		
Downstream Invert	803.82	803.58	Y		
Length (feet)	18.0	21.1	Y		
Slope (%)	1.00%	0.85%	Y		
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	30" X 60"	30"X60"			IN GOOD CONDITION.
Elevation	807.00	806.81			
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)						
Elevation						
Emergency Spillway						
Elevation	N/A	N/A	-		NOT DESIGNED WITH A SPILLWAY	
Length of spillway (feet)	N/A	N/A	-			
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		STURDY GRASSES GROWING 7 FT TALL AT OUTLET ST015213 SW CORNER OF POND			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST015319)	24" RCP		NE CORNER OF POND		RCP IN GOOD CONDITION, 796.80	
Outfall 2 (ST015290)	48" RCP		NW CORNER OF POND		RCP IN GOOD CONDITION, 799.06	
Outfall 3 (ST015213)	24" RCP		SW CORNER OF POND		RCP IN GOOD CONDITION, 805.41	
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	797.00	799.05		N		GPS EQUIPMENT: GEOMAX ZENITH35 & CARLSON SURVEYOR2 WITH SURV CE v5.04 ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
Design High Water Elevation	807.00	806.81	Y			
Area at Normal Water Elevation (Ac) (Wet Ponds)	- AC	0.755 AC	-			
Area at Design High Water Elevation (Ac)	- AC	1.360 AC	-			
Active Storage Available (Ac-Ft)*	- ACFT	9.234 ACFT	-			
Lowest Elevation at Top of Embankment (If Applicable)	808.00	807.00	?			
Average Elevation at Top of Embankment (If Applicable)	808.00	807.50	?			
Maximum Bottom Elevation	792.00	791.55	Y			
Average Pond Bottom Elevation	792.00	791.50	Y			
Pond Bottom Area (Ac)	- AC	0.212 AC	-			
Maximum Pond Depth	16.0 FT	15.4 FT	Y			
Average Pond Depth	5.0 FT	7.5 FT		N		
Average Permanent Pool Depth (Wet Ponds)	5.0 FT	6.80 FT		N		LOCATE AND CLEAR 12" RCP OUTLET PIPE ENTRANCE

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

Megal Court Pond – SWP02N016

Overview



Storm Water Outlet ST015319



Megal Court Pond – SWP02N016

Storm Water Outlet ST015290



Storm Water Outlet ST015213



Megal Court Pond – SWP02N016

Storm Water Outlet ST015376



Storm Water Overflow ST015378



Megal Court Pond – SWP02N016

Repairs Needed (11/08/21)

Clear debris from 12” RCP w/apron endwall - ST012391

Currently looks like hole.

Locate Outlet from Pond if not 12” RCP w/apron endwall.



Clear brush from ST015213



Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

Inspection Firm: VILLAGE OF
MENOMONEE FALLS
Phone Number: (262) 532-4411
Address: VILLAGE OF
MENOMONEE FALLS
W156N8480 PILGRIM RD
MENOMONEE FALLS, WI
53051

Inspector Name : CHRISTOPHER M. GARIEPY

Inspection Date: NOVEMBER 8, 2021

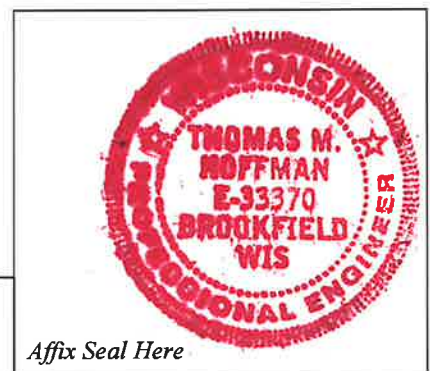
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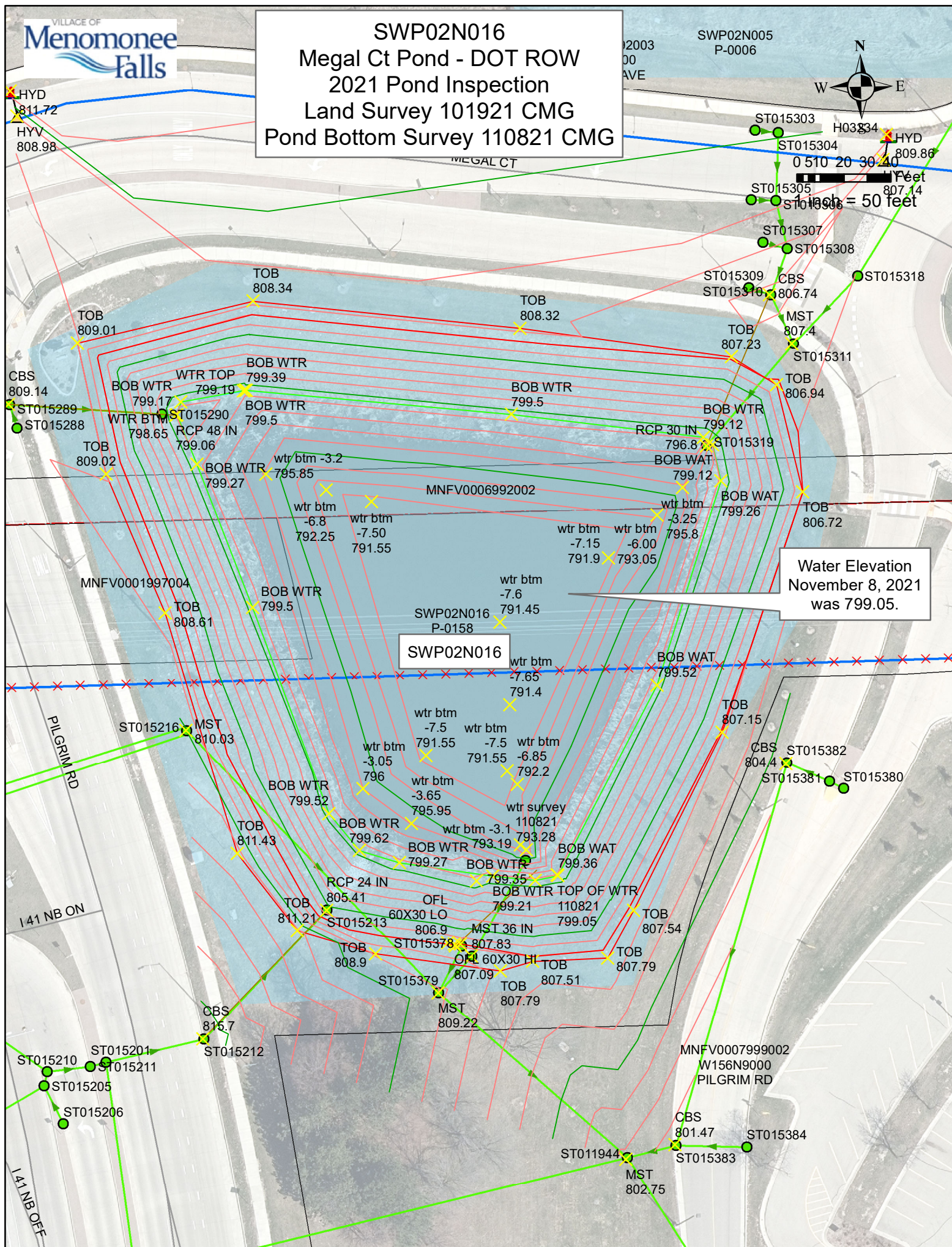
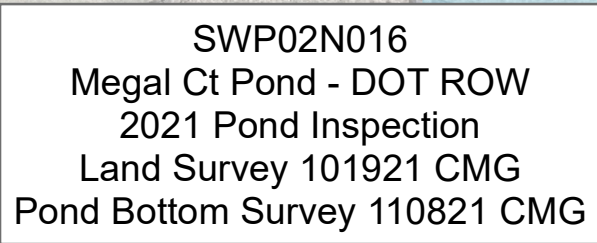
Professional Name: THOMAS M. HOFFMAN, P.E.

Phone Number: (262) 532-4415

Date: 4/14/2022

Signature: 





Acre Feet pond storage volume calculations for:

DOT/MEGAL CT POND
SWP02N016

= Entered Value
= Calculated Value
= Description of Elevations Calculated

Year of Inspection: **2021**

Example: $H = H2 - H1$, where $H2 > H1$

H1 =	799.05	Lower Height Elevation in Feet (Pond Bottom for Dry Pond OR Top of Observed Water Level)
H2 =	806.81	Height at Bottom of Spillway (Wet or Dry)
H3 =	807.00	Higher Height Elevation in Feet (Top of Bank Around Pond - Wet or Dry)
H4 =	791.50	Bottom of Wet Pond Elevation in Feet (Wet Ponds Only)
	Sq.Ft.	Acres
Area 1 =	32,905.90	0.7554 Area of H1
		Area 1 = Area at Top of Observed Water Level
Area 2 =	59,240.00	1.3600 Area of H2
		Area 2 = Area at Bottom of Spillway
Area 3 =	59,240.00	1.3600 Area of H2
		Area 3 = Area at Top of Bank
Area 4 =	9,234.60	0.2120 Area of H3
		Area 4 = Area at Bottom of Pond

Equation to determine Volume (AcFt) of pond storage capacity from

Top of Water to Bottom of Spillway:

$$V = (((H2-H1)/3)(A1+A2 + (\sqrt{A1+A2})))$$

	Feet		Acres		Acres
V=	$((H2-H1)/3)$	x	$(A1+A2)$	+	$\sqrt{A1+A2}$
V=	2.5867	x	2.1154	+	1.4544
V=	2.5867	x	3.5698		
V=	9.2339	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from

Top of Water to Top of Bank at Spillway:

$$V = (((H3-H1)/3)(A1+A3 + (\sqrt{A1+A3})))$$

	Feet		Acres		Acres
V=	$((H3-H1)/3)$	x	$(A1+A3)$	+	$\sqrt{A1+A3}$
V=	2.6500	x	2.1154	+	1.4544
V=	2.6500	x	3.5698		
V=	9.4600	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from

Bottom of Pond to Top of Water:

$$V = (((H1-H4)/3)(A1+A4 + (\sqrt{A1+A4})))$$

	Feet		Acres		Acres
V=	$((H1-H4)/3)$	x	$(A1+A4)$	+	$\sqrt{A1+A4}$
V=	2.5167	x	0.9674	+	0.9836
V=	2.5167	x	1.9510		
V=	4.9100	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from

Bottom of Pond to Top of Bank at Spillway:

$$V = (((H3-H4)/3)(A3+A4 + (\sqrt{A3+A4})))$$

	Feet		Acres		Acres
V=	$((H3-H4)/3)$	x	$(A3+A4)$	+	$\sqrt{A3+A4}$
V=	5.1667	x	1.5720	+	1.2538
V=	5.1667	x	2.8257		
V=	14.5997	AcFt			