



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	SE ¼ & SW ¼ Sec. 13-8-20	Name of Business/Subdivision	Heritage Brothers
Property Tax ID Number	MNFV005299 0006	Address of Property	N72W13272 Appleton Avenue Menomonee Falls, WI 53051
Date	9/12/19		

Dry Pond		Location of Pond	South of Heritage Brothers Building, north of Heritage Reserve Road
Wet Pond			
Other	X		

Pond ID: SWP13S027

Biofiltration
Basin

Year Pond Constructed	2014	Year of Last Certification	1/19/15
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Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X	Corrugated Metal Pipe (CMP) Design information based on original stormwater report
Upstream Invert	784.25	784.44	X	
Downstream Invert	784.00	783.97		
Length (feet)	50.0'	145.1		
Slope (%)	0.50%	0.32%		
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)	12"	12"	X	Horizontal Frame & Grate
Elevation	787.00	787.34	X	
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	787.50	786.96	X			
Length of spillway (feet)	10.0'	6.0'	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X				
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	12" Flared End Section		West portion of the pond			
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	-	-				Hydro CAD was used to estimate HWL
Design High Water Elevation	787.54	787.19	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-				
Area at Design High Water Elevation (Ac)	0.030	0.028	X			
Active Storage Available (Ac-Ft)*	0.015	0.016	X			
Lowest Elevation at Top of Embankment (If Applicable)	787.50	787.37	X			
Average Elevation at Top of Embankment (If Applicable)	788.00	787.53	X			
Maximum Bottom Elevation	786.50	785.88	X			
Average Pond Bottom Elevation	786.50	785.92	X			
Pond Bottom Area (Ac)	0.013	0.009	X			
Maximum Pond Depth	1.0'	1.49'	X			Low Elev. at Top of Embankment- Max. Bottom Low Elev. at Top of Embankment- Ave. Bottom
Average Pond Depth	1.0'	1.45'	X			
Average Permanent Pool Depth (Wet Ponds)						

*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

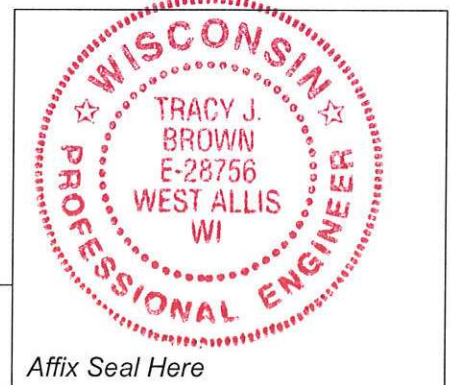
Dry Ponds Use H = Height of Section, $A1$ = pond bottom area, $A2$ = area at top section

<p><i>Sketch Outlet or Attach to Document</i></p> <p><i>See Attached</i></p>	<p><i>See Attached</i></p>
	<p><i>See Attached</i></p>

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

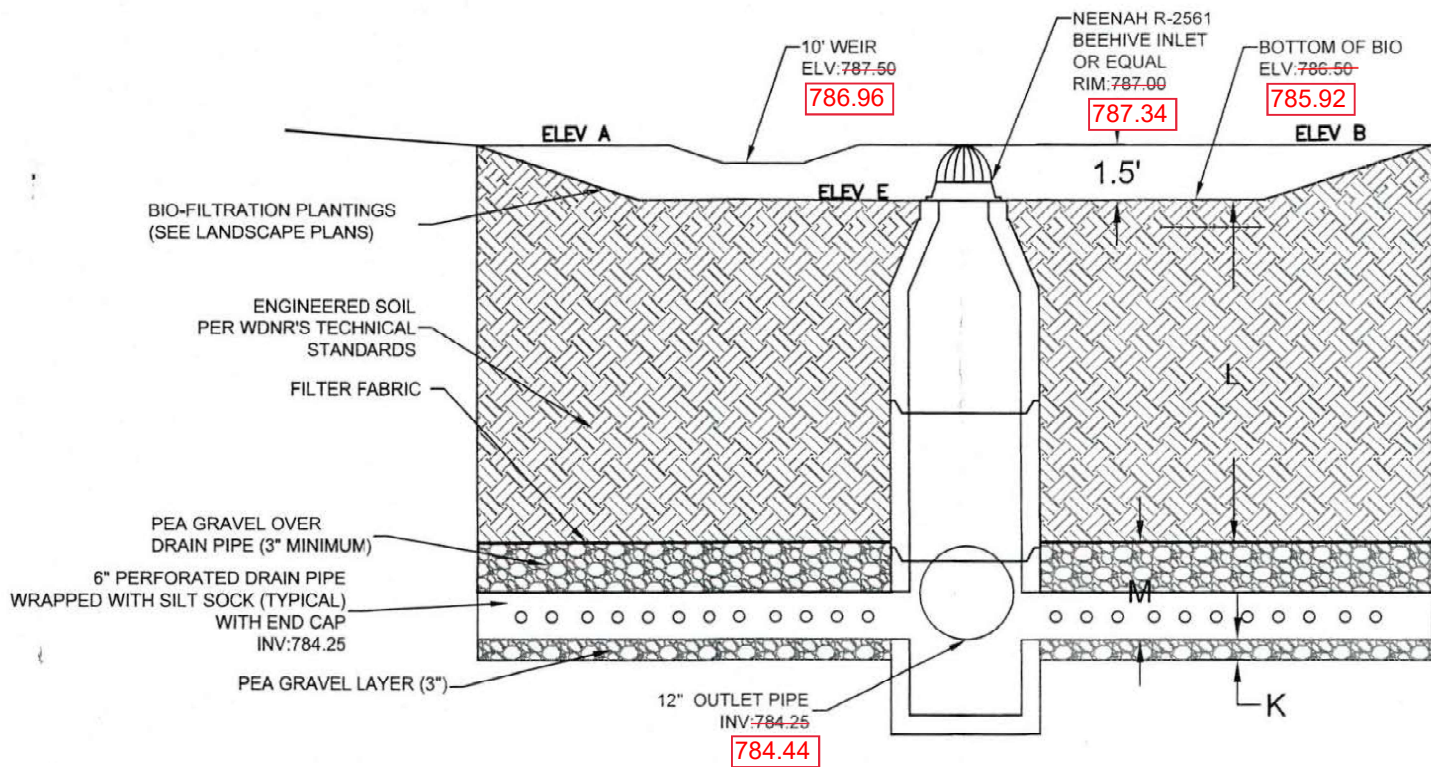
Inspection Firm:	<u>JSD Professional Services</u>	Inspector Name :	<u>Jay Averill</u>
Phone Number:	<u>(262) 513-0666</u>	Inspection Date:	<u>9/20/19</u>
Address:	<u>W238N1610 Busse Road</u> <u>Suite 100</u> <u>Waukesha, WI 53188</u>		

Certifying	<u>Tracy Brown, P.E.</u>
Professional Name:	
Phone Number:	<u>(262) 513-0666</u>



<p>Date:</p> <p><u>10/11/19</u></p>	<p>Signature:</p> <p><u>Tracy Brown</u></p>
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10-3-2012



SECTION 1-1

BIOFILTRATION BASIN
OUTLET AS-BUILT

Storm Pond Recertification
WEAS Development – Menomonee Falls
SWP13S027



Biofiltration pond rip rap spillway

Storm Pond Recertification
WEAS Development – Menomonee Falls
SWP13S027



Biofiltration pond looking east

Storm Pond Recertification
WEAS Development – Menomonee Falls
SWP13S027



Biofiltration pond looking west

Storm Pond Recertification
WEAS Development – Menomonee Falls
SWP13S027



Beehive grate – outlet structure