



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	Name of Business/Subdivision	Heritage Brothers
Property Tax ID Number	Sec. 13-8-20 MNFV005299 0006	Address of Property	N72 W13272 Appleton Ave
Date	9/12/19		Menomonee Falls, WI 53051

Dry Pond	
Wet Pond	X
Other	

Location of Pond

North of Heritage Brothers Building and Parking lot

Pond ID: SWP13S026

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)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X		Corrugated Metal Pipe (CMP) PVC (Actual in field)  Design information based on original stormwater report
Upstream Invert	781.00	780.79	X		
Downstream Invert	780.50	780.62	X		
Length (feet)	50.0'	24.0'	X		
Slope (%)	1.0%	0.69%	X		
<b>Secondary Outlet Pipe</b>	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)				Riser Material
Opening Diameter (inches)					
Elevation					
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	4.5"	4.5"	X		
Elevation	782.50	782.40	X		

Compliance Verification	Design	Actual	Compliant Yes    No		Comments	
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter (inches)	1.5"	1.5"	X			
Elevation	781.00	780.95	X			
<b>Other (Description)</b>						
Opening Type and Size (inches)						
Elevation						
<b>Emergency Spillway</b>						
Elevation	783.75	783.45	X			
Length of spillway (feet)	10.0'	12.0'	X			
<b>Embankment</b>	Present Yes    no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X				
Animal burrows or slope erosion		X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments	
Outfall 1	12" Flared End Section		NE quadrant of wet pond			
Outfall 2						
Outfall 3						
<b>Storage Properties</b>	Design	Actual	Compliant Yes    No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	781.00	780.29	X			Hydro CAD was used to estimate NWL and HWL
Design High Water Elevation	783.75	783.27	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.137	0.105	X			
Area at Design High Water Elevation (Ac)	0.239	0.223	X			
Active Storage Available (Ac-Ft)*	0.360	0.337	X			
Lowest Elevation at Top of Embankment (If Applicable)	783.75	784.54	X			
Average Elevation at Top of Embankment (If Applicable)	785.00	785.02	X			
Maximum Bottom Elevation	775.90	775.53	X			
Average Pond Bottom Elevation	775.90	775.80	X			
Pond Bottom Area (Ac)	0.03	0.0202	X			
Maximum Pond Depth	7.85	9.01	X			Low Elev. at Top of Embankment- Max. Bottom
Average Pond Depth	7.85	8.74	X			Low Elev. at Top of Embankment- Ave. Bottom
Average Permanent Pool Depth (Wet Ponds)	5.1	4.49	X			NWL-Ave. Bottom

\*To Determine Active Storage  $V=H/3(A_1+A_2+(A_1 \times A_2)^{1/2})$

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>See Attached</p>	<p>See Attached</p>
	<p>See Attached</p>

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

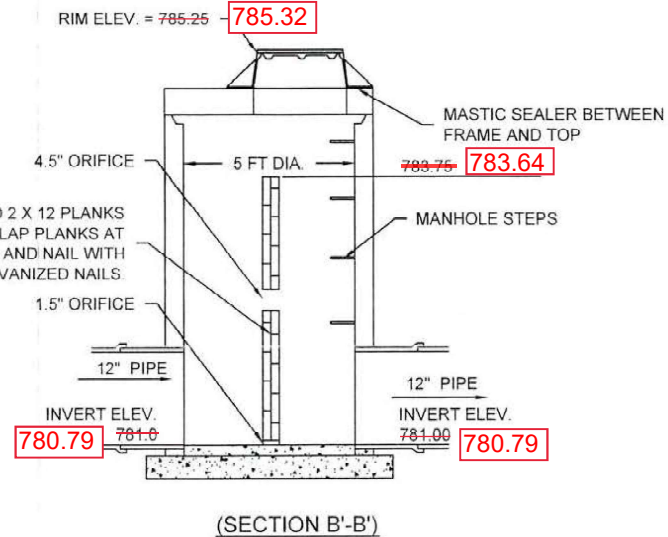
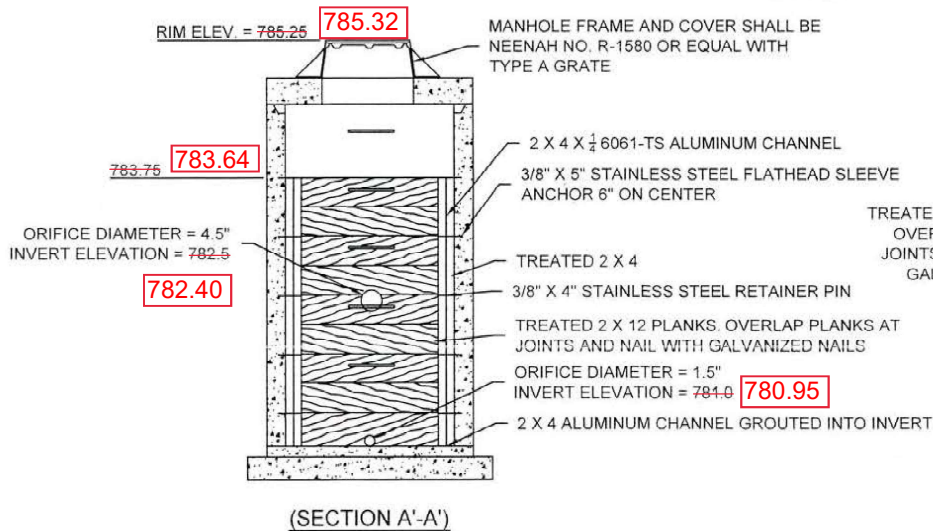
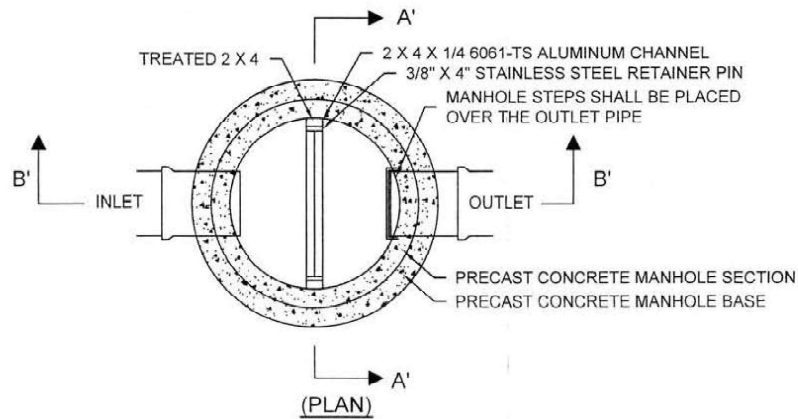
Inspection Firm: JSD Professional Services      Inspector Name : Jay Averill  
 Phone Number: (262) 513-0666      Inspection Date: 9/20/19  
 Address: W238N1610 Busse Road  
           Suite 100  
           Waukesha, WI 53188

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



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



## OUTLET CONTROL MANHOLE CONSTRUCTION CONDITIONS



NOT TO SCALE

OUTLET STRUCTURE AS-BUILT

Storm Pond Recertification  
WEAS Development – Menomonee Falls  
SWP13S026



Outlet structure with baffle wall – SWP13S026

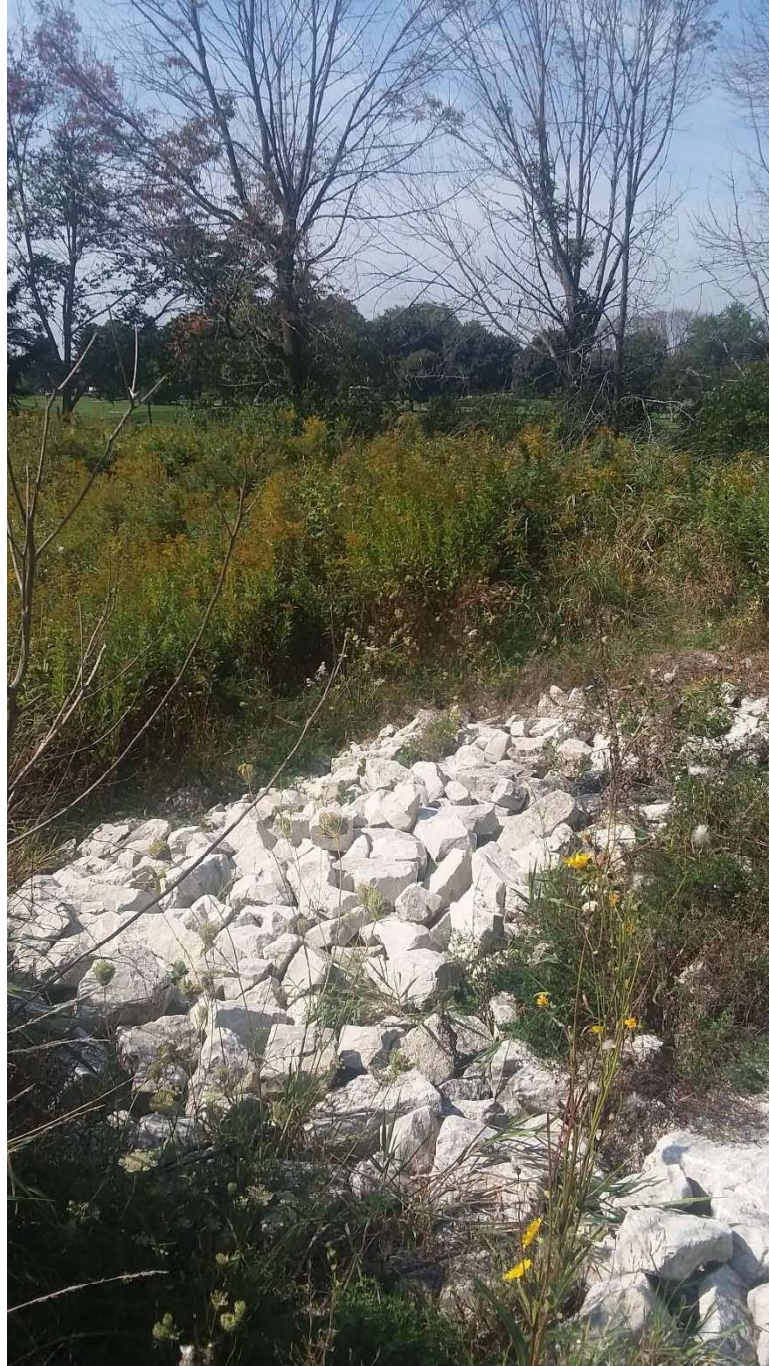


Storm Pond Recertification  
WEAS Development – Menomonee Falls  
SWP13S026



North Pond rip rap outfall

Storm Pond Recertification  
WEAS Development – Menomonee Falls  
SWP13S026



North pond rip rap spillway



Storm Pond Recertification  
WEAS Development – Menomonee Falls  
SWP13S026



North pond plant overgrowth – looking south