



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 1/4 Sect. 13 Name of Business/Subdivision Heritage Reserve Office Building
Property Tax ID Number _____ Address of Property 772 W 13272 Appleton Ave.
Date 1/12/15

Dry Pond	
Wet Pond	<u>X</u>
Other	

Location of Pond North side of property
Pond ID: SWP13S026

Year Pond Constructed 2014 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)	<u>12.0</u>	<u>12.00</u>	<u>✓</u>	
Upstream Invert	<u>781.00</u>	<u>780.84</u>	<u>✓</u>	
Downstream Invert	<u>780.50</u>	<u>780.50</u>	<u>✓</u>	
Length (feet)	<u>27.58</u>	<u>24.58</u>	<u>✓</u>	
Slope (%)	<u>1.81</u>	<u>1.38</u>	<u>✓</u>	
Secondary Outlet Pipe	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)	<u>N/A</u>	<u>N/A</u>		
Upstream Invert	<u>N/A</u>	<u>N/A</u>		
Downstream Invert	<u>N/A</u>	<u>N/A</u>		
Length (feet)	<u>N/A</u>	<u>N/A</u>		
Slope (%)	<u>N/A</u>	<u>N/A</u>		
Riser	(If Applicable)			Riser Material
Opening Diameter (inches)	<u>N/A</u>	<u>N/A</u>		
Elevation	<u>N/A</u>	<u>N/A</u>		
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)	<u>4.5</u>	<u>4.5</u>	<u>✓</u>	
Elevation	<u>782.50</u>	<u>782.34</u>	<u>✓</u>	

Compliance Verification	Design	Actual	Compliant Yes No	Comments	
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	1.5	1.5	✓		
Elevation	781.00	780.84	✓		
Other (Description)	BROAD CRESTED REG. WEIR				
Opening Type and Size (inches)					
Elevation	783.75	783.74	✓		
Emergency Spillway					
Elevation	783.75	784.29	✓		
Length of spillway (feet)	10.0	17.5	✓		
Embankment	Present Yes no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation					
Animal burrows or slope erosion					
Storm Sewer Outfalls	Type & Size		Location	Comments	
Outfall 1	12" Flared End Section		NE quadrant of wet pond		
Outfall 2					
Outfall 3					
Storage Properties	Design	Actual	Compliant Yes No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	781.0	780.94	✓		
Design High Water Elevation	783.75	783.75	✓		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.137	0.125	✓		
Area at Design High Water Elevation (Ac)	0.239	0.238	✓		
Active Storage Available (Ac-Ft)*	0.360	0.354	✓		
Lowest Elevation at Top of Embankment (If Applicable)	783.75	784.29	✓		
Average Elevation at Top of Embankment (If Applicable)	785.00	785.28	✓		
Maximum Bottom Elevation	775.90	776.11	✓		
Average Pond Bottom Elevation	775.90	776.00	✓		
Pond Bottom Area (Ac)	0.025	0.016	✓		
Maximum Pond Depth	7.85	7.64	✓		
Average Pond Depth	7.85	7.75	✓		
Average Permanent Pool Depth (Wet Ponds)	5.1	4.94	✓		

*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

Sketch Outlet or Attach to Document

See
attached

Place Photograph of Pond or Attach to Document

See attached

Place Photograph of Pond or Attach to Document

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

Inspection Firm: The Sigma Group, Inc.
Phone Number: 414-643-4200
Address: 1300 W. Canal Street
Milwaukee, WI 53233

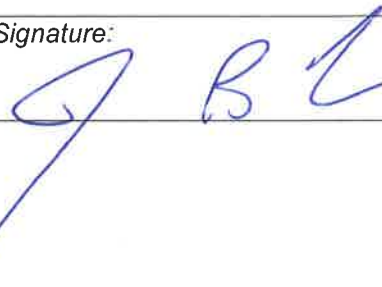
Inspector Name: Kevin Skutke; RLS
Inspection Date: _____

Certifying Professional
Name: James B. Leedom, P.E.
Phone Number: 414-643-4200

Date:

1/19/15

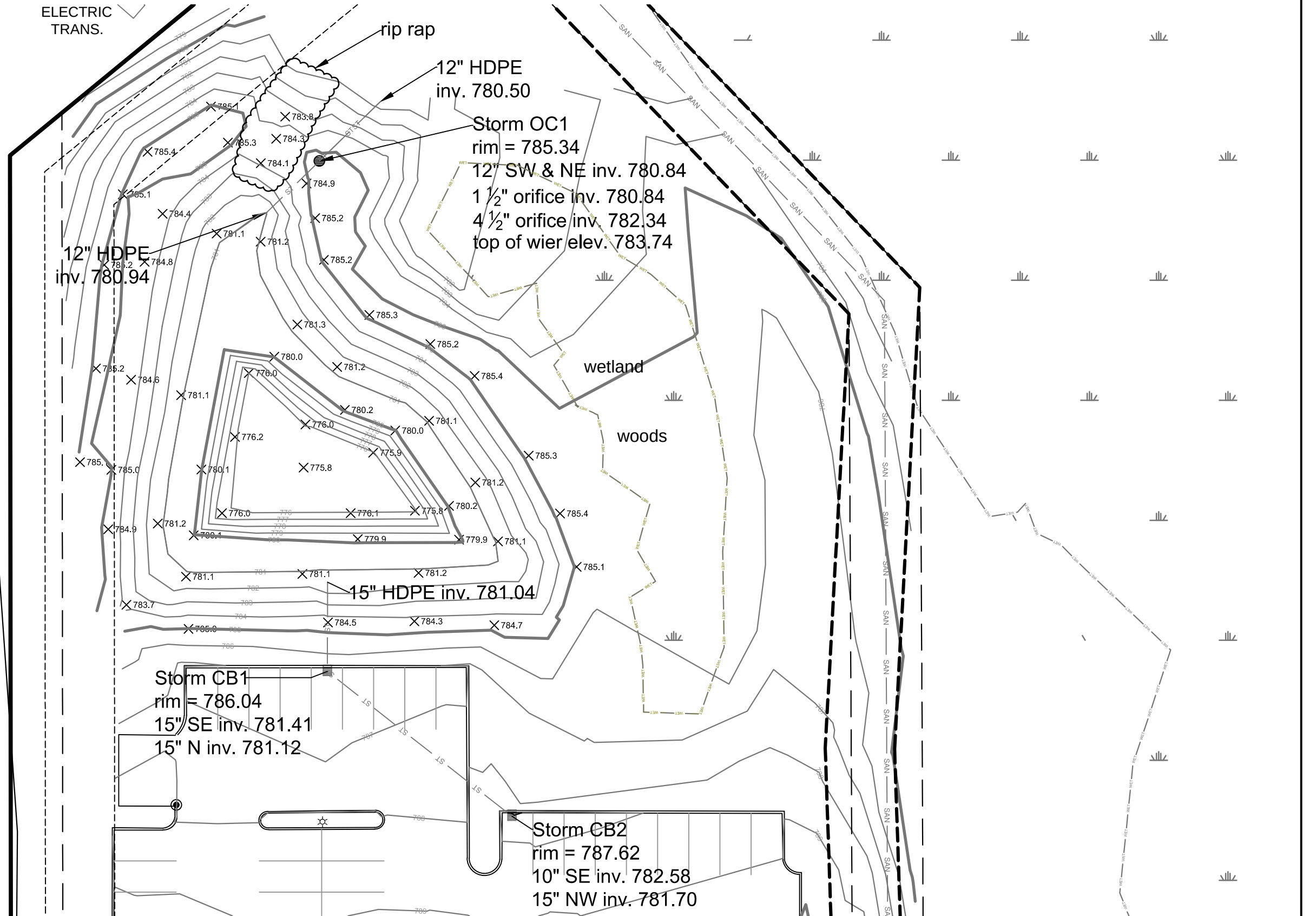
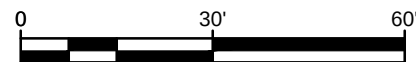
Signature:



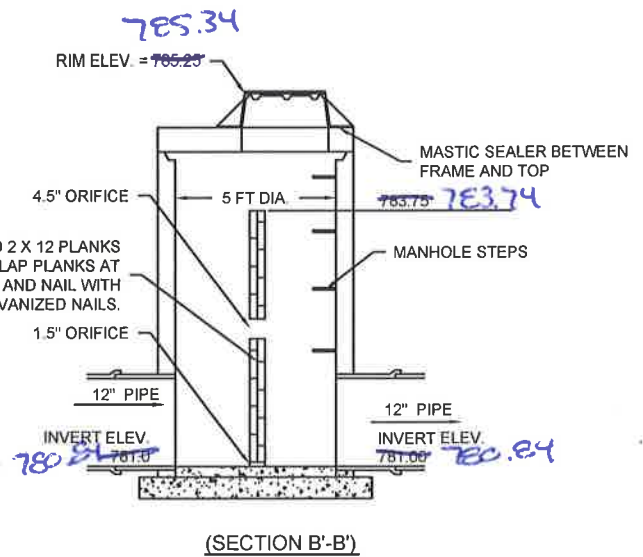
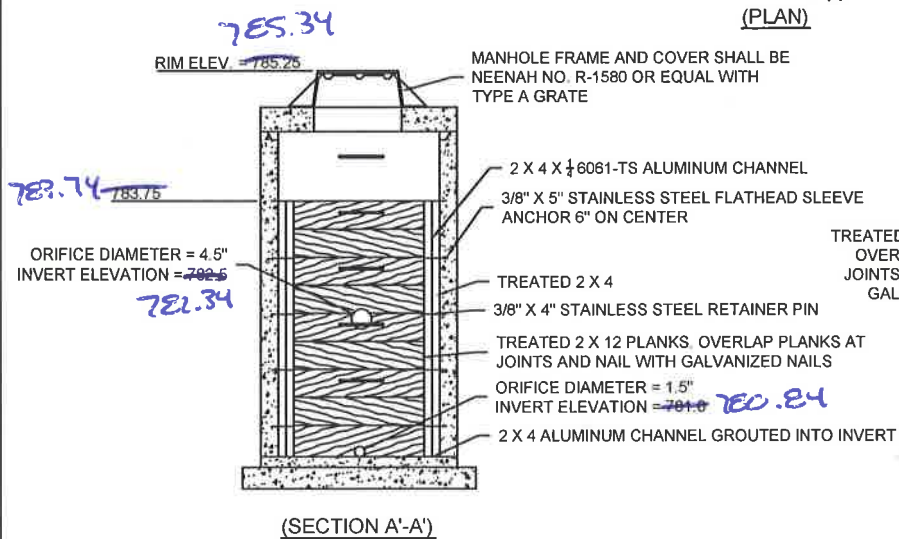
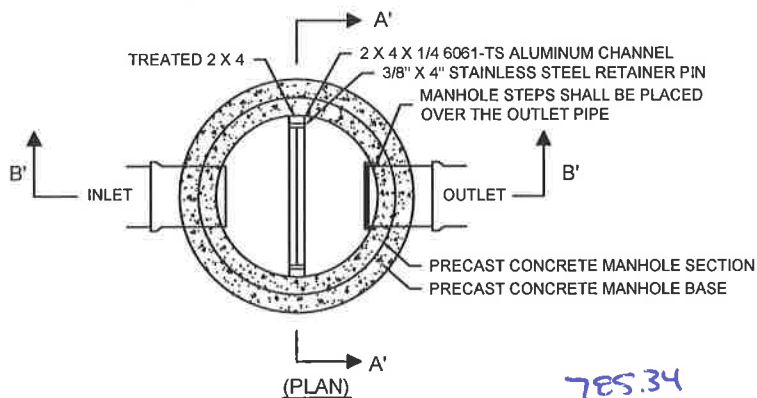


10-3-2012

Y CLUB
D



Heritage Reserve Development N72 W13272 Appleton Avenue Menomonee Falls, WI			 www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210
January 20, 2015	KAS	SCALE: 1" = 30'	
Storm Water Pond As Built			FIGURE 1



OUTLET CONTROL MANHOLE CONSTRUCTION CONDITIONS



NOT TO SCALE

Wetbasin Outlet Structure
C&S-Built Markup



Looking north across wet detention
basin

01/19/2015 17:31



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Wet Detention Basin - Outlet and
Spillway