



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 Henderson Reserve Office Bldg
 Property Tax ID Number _____ Address of Property 172 W13272 Appleton Ct.
 Date 1/18/15

Dry Pond			Location of Pond
Wet Pond			<u>South side of</u>
Other <input checked="" type="checkbox"/>	Pond ID: <u>SWP13S027</u>		<u>property</u>

↳ Biofiltration Basin

Year Pond Constructed 2014 Year of Last Certification NA

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	<u>12</u>	<u>12</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Upstream Invert	<u>784.25</u>	<u>784.25</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Downstream Invert	<u>783.75</u>	<u>783.88</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Length (feet)	<u>144.83</u>	<u>143.53</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Slope (%)	<u>0.35%</u>	<u>0.26%</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Upstream Invert	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Downstream Invert	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Length (feet)	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Slope (%)	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	<u>12.0</u>	<u>12"</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Elevation	<u>787.00</u>	<u>787.38</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Elevation	<u>N/A</u>	<u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter	N/A	N/A				
Elevation	N/A	N/A				
Other (Description)						
Opening Type	N/A	N/A				
Elevation	N/A	N/A				
Emergency Spillway						
Elevation	727.50	727.0		✓	Berm/embankment on south side of basin not constructed per plan	
Length of spillway	10'	12'±	✓			
Embankment			Present			
			Yes	No		
Unauthorized plantings, trees, or woody vegetation				✓		
Animal burrows or slope erosion				✓		
Storage Properties	Design	Actual	Compliant		Points Surveyed	Equipment Used
	Yes	No				
Normal Water Elevation (Wet Ponds)	N/A	N/A				
Design High Water Elevation	727.54	727±		✓		
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	N/A				
Area at Design High Water Elevation (Ac)	0.030	0.028		✓		
Active Storage Available (Ac-Ft)*	0.015	0.008		✓		
Lowest Elevation at Top of Embankment (If Applicable)	728	727.3		✓		
Average Elevation at Top of Embankment (If Applicable)	728	727.88		✓		
Maximum Bottom Elevation	726.50	726.7	✓			
Average Pond Bottom Elevation	726.50	726.40	✓			
Pond Bottom Area (Ac)	0.013	0.004		✓		
Maximum Pond Depth	1.04	0.705		✓		
Average Pond Depth	1.04	0.60±		✓		

*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>Sketch Outlet or Attach to Document</p> <p style="font-size: 2em; color: blue;">See attached</p>	<p>Place Photograph of Pond or Attach to Document</p> <p style="font-size: 2em; color: blue;">See attached</p>
	<p>Place Photograph of Pond or Attach to Document</p>

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

Inspection Firm: The Sigma Group, Inc. Inspector Name: Kevin Skutke, PLS
 Phone Number: 414-643-4169 Inspection Date: _____
 Address: 1300 W. Canal St.
Milwaukee, WI 53233

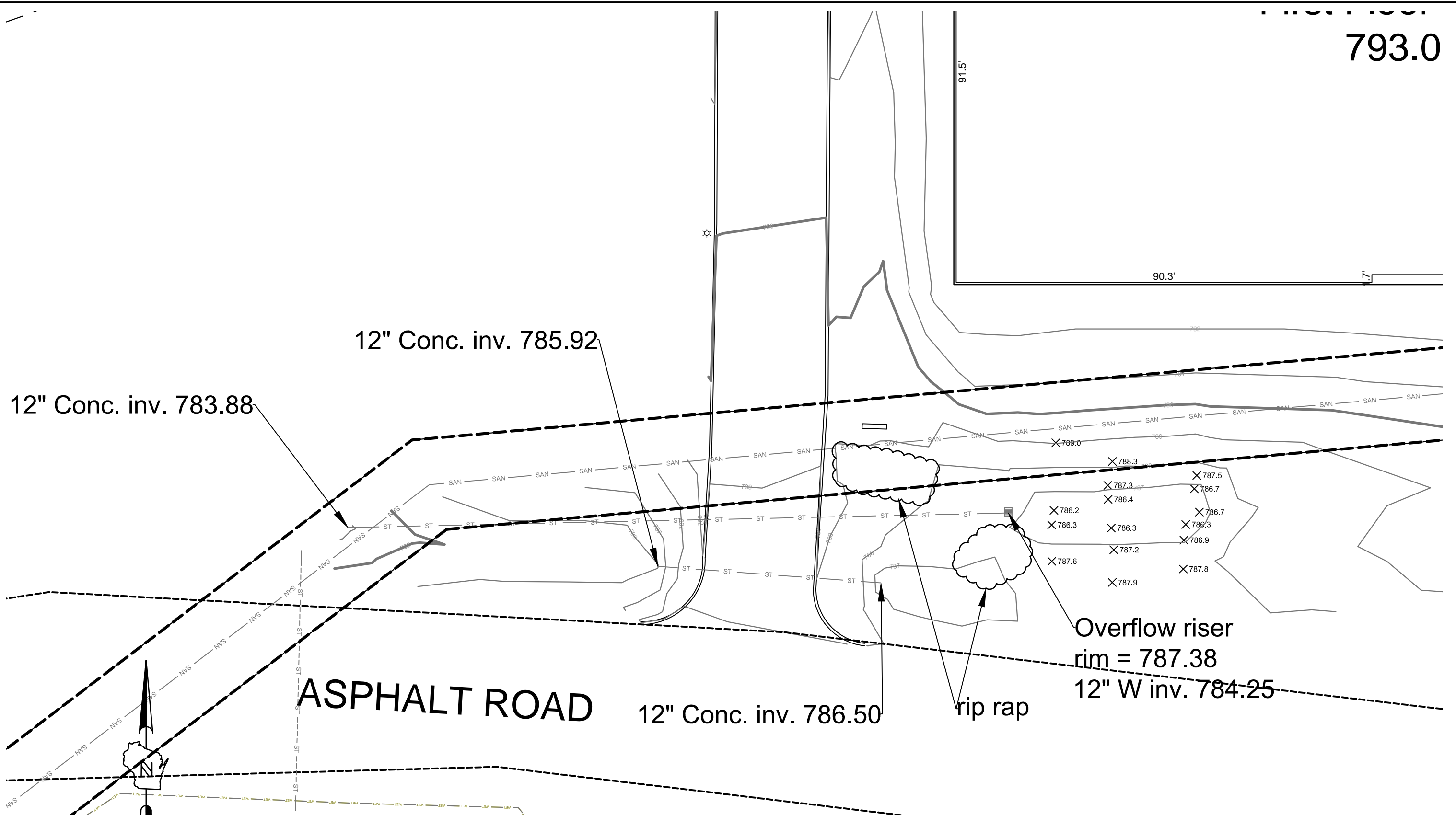
Certifying Professional Name: James Leedom, P.E.
 Phone Number: 414-643-4169



Date: <u>1/19/15</u>	Signature: <u>JBL</u>
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Affix Seal Here

793.0



12" Conc. inv. 785.92

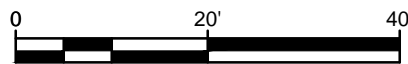
12" Conc. inv. 783.88


ASPHALT ROAD

12" Conc. inv. 786.50

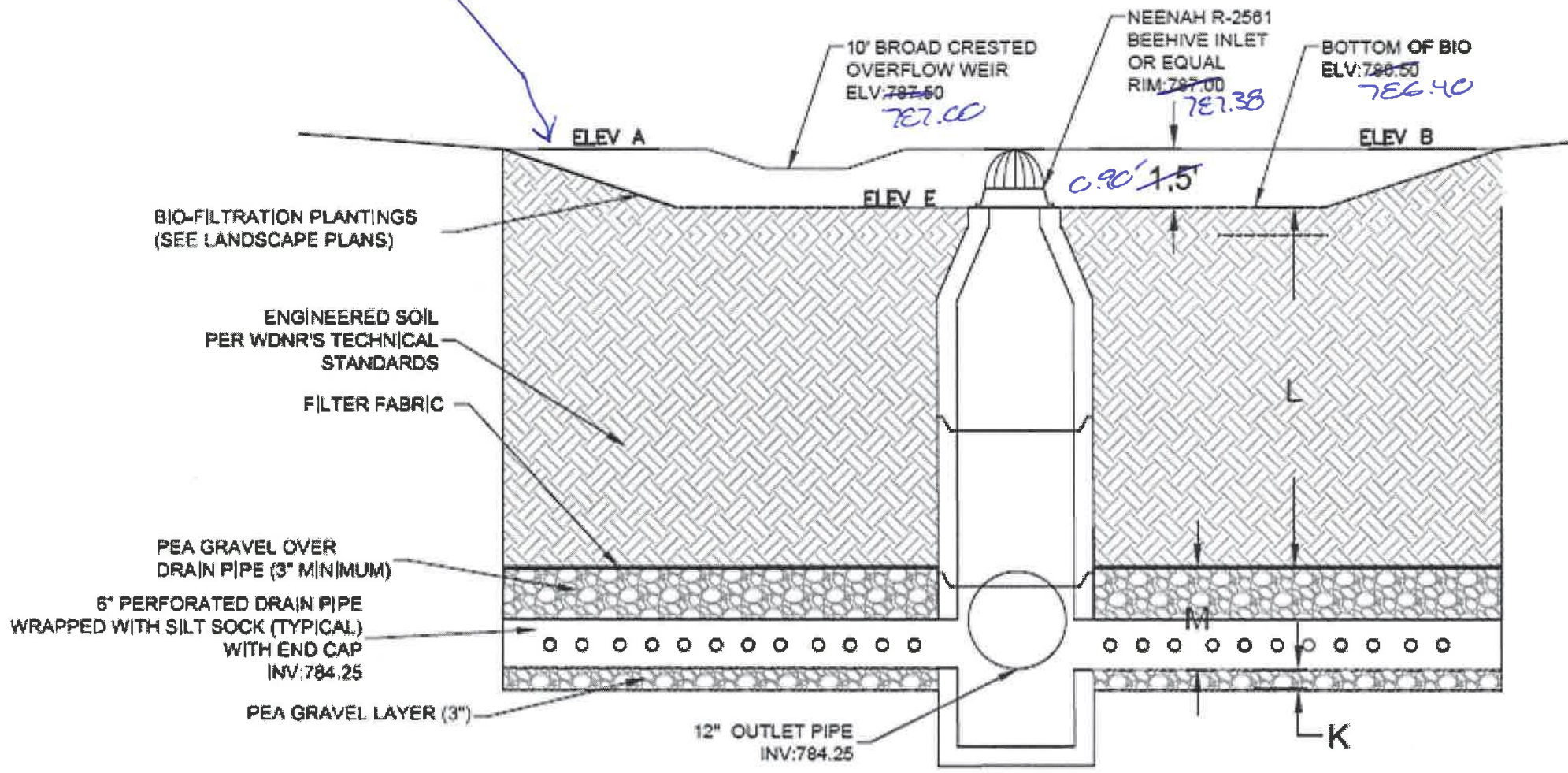
rip rap

Overflow riser
rim = 787.38
12" W inv. 784.25



Heritage Reserve Development N72 W13272 Appleton Avenue Menomonee Falls, WI			 <small>Single Source. Sound Solutions.</small>	www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210
January 20, 2015	KAS	SCALE: 1" = 20'		15132-ALTA.dwg
Bio Filtration Pond As Built			FIGURE 2	

788 Design
787.3 Cas-Built (see Elevation)



Biofiltration Basin Outlet
Cas-Built Markup



Looking West at Biofiltration Basin