



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 SE1/4 & NE1/4 Sec 1 Name of Business/Subdivision Orchard Ridge RDF/Waste MNGMT
Property Tax ID Number MNFV00049 Address of Property W124 N8925 Boundary Road
MNFV0004998003 and > 98004 Menomonee Falls, WI 53051
Date _____

Dry Pond	NO
Wet Pond	YES
Other	

Location of Pond South of existing asphalt lot

Pond ID: SWP01S010

Year Pond Constructed 2017

Year of Last Certification

Compliance Verification	Design	Actual	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	18	18	Yes		Smooth Walled (interior) / Corrugated (exterior) HDPE N-12 Pipe From Oil Water Separator to 18" Pipe Outlet
Upstream Invert	752.60	752.61	Yes		
Downstream Invert	752.40	752.44	Yes		
Length (feet)	5	7	Yes		
Slope (%)	4%	2.43%			
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)	6 / 8	6 / 8			Pan Area Discharge (South of Wet Bottom Basin) / Both pipes are SCH 80 PVC
Upstream Invert	749.5 / 752.0	749.4 / 752.2			
Downstream Invert	749.5 / Match Existing	749.4 / 751.93			
Length (feet)	165 / 40	85.5 / 30			
Slope (%)	0% / N.A.	0.0% / 0.90%			
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	18	18			Pan Area Outlet (South of Wet Basin) / Corrugated Metal Pipe w/ trash rack Top of Pipe
Elevation	754.3	754.3			
Upper Discharge Control	(If Applicable)				Weir
Weir Length (feet)	3.67	3.67			Vortechs Aluminum Weir Plate
Elevation	754.30	754.31			Measured up from Outside Bottom Elevation 747.06

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)		Orifice			
Orifice Opening (sf)	3.03	3.03	Yes		Vortechs Aluminum Orifice Plate	
Elevation	752.80	752.81	Yes		Measured up from Outside Bottom Elevation 747.06	
Other (Pan Area Spillway)						
Elevation	754.00	753.00			Pan Area Emergency Spillway	
Length of Spillway (feet)	16.00	16.30			Pan Area Emergency Spillway	
Emergency Spillway						
Elevation	754.50	754.53	Yes		Wet Bottom Basin Emergency Spillway	
Length of spillway (feet)	43	44.93	Yes		Rip rap across entire spillway and down entire downstream side slope	
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		No				
Animal burrows or slope erosion		No				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	N.A.		N.A.			
Outfall 2	N.A.		N.A.			
Outfall 3	N.A.		N.A.			
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	753.00	753.02	Yes			Trimble GPS
Design High Water Elevation	754.79	754.78	Yes			Trimble GPS
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.1864	0.1987	Yes			Trimble GPS
Area at Design High Water Elevation (Ac)	0.2826	0.3011	Yes			
Active Storage Available (Ac-Ft)*	0.4197	0.4348	Yes			
Lowest Elevation at Top of Embankment (If Applicable)	755.00	755.00	Yes			
Average Elevation at Top of Embankment (If Applicable)	755.00	755.01	Yes			
Maximum Bottom Elevation	751.00	751.02	Yes			Trimble GPS
Average Pond Bottom Elevation	751.00	751.07	Yes			
Pond Bottom Area (Ac)	0.0656	0.1014	Yes			
Maximum Pond Depth	3.79	3.76	Yes			
Average Pond Depth						
Average Permanent Pool Depth (Wet Ponds)	2'	2'				

*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

Refer to attached Contech Fabrication Drawing for Oil Water Separator Flow Control Information.



Wet Bottom Detention Basin – Orientation Southwest



Wet Bottom Detention Basin – Orientation Northeast

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

Inspection Firm: Cornerstone Environmental
Group, LLC, a Tetra Tech
Company

Inspector Name: Ben Hintz

Phone Number: 630-633-5508

Inspection Date: 11/30/2017

Address: 4200 Cantera Drive
Suite 102
Warrenville, IL 60555

Certifying Professional

Name: David Sonne

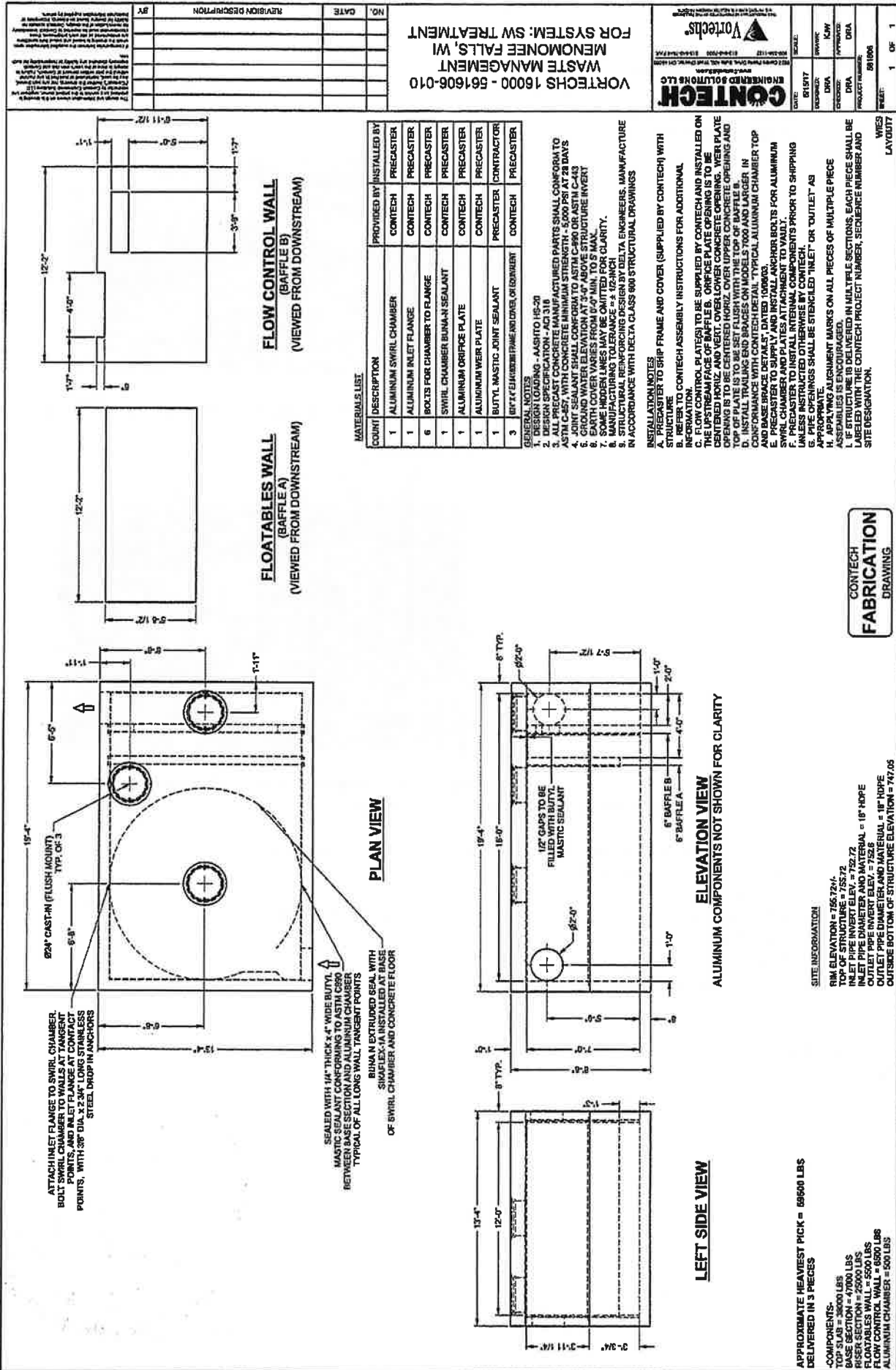
Phone Number: 630-633-5508



Date:

11/10/18

Signature:





MATERIAL NOTE
SWIRL CHAMBERS TO BE FABRICATED OF ALUMINUM ALLOY 6052-H32. CHAMBERS LESS THAN OR EQUAL TO 8 FOOT DIAMETER SHALL BE 1/8-INCH THICK. SWIRL CHAMBERS GREATER THAN OR EQUAL TO 7 FOOT DIAMETER SHALL BE 3/16-INCH THICK.

