



10-9-2012
 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 _____ Name of Business/Subdivision Harley Davidson Pilgrim Road LLC
 Property Tax ID Number MNFV00079 Address of Property W156 N9000 Pilgrim Road
99002
 Date 10/9/12 Menomonee Falls, WI 53051

Dry Pond	X
Wet Pond	
Other	

Location of Pond Located by NE corner of facility

Pond ID: SWP02s001

Year Pond Constructed 2007? Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	??	10"			PVC; good condition
Upstream Invert	??	772.7			
Downstream Invert	??	773.8			
Length (feet)	25'	25'			
Slope (%)	??	1.2%			
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)	12"	12"	X		Concrete; good condition
Upstream Invert	773.6	773.8	X		
Downstream Invert	772.75	772.8	X		
Length (feet)	89'	89'	X		
Slope (%)	1.02%	1.12%	X		
Riser (If Applicable)					
Opening Diameter (inches)	??	28"			Primary overflow riser - Concrete manhole section with 28" inlet grate; good condition
Elevation	??	776.4			
Upper Discharge Control (If Applicable)					No upper discharge observed
Opening Diameter (inches)	??	N/A			
Elevation	??	N/A			

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	??	3"				
Elevation	??	775				
Other (Description)						
Opening Type and Size (inches)	??	23"			Secondary overflow riser; concrete manhole section with 23" diameter inlet grate; good condition	
Elevation	777.83	777.8	X			
Emergency Spillway						
Elevation		N/A			No apparent spillway provided; secondary overflow riser provided	
Length of spillway (feet)		N/A				
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Embankments in good condition			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	8" pvc		SW Corner of Basin		Good condition	
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)					X	GPS survey unit
Design High Water Elevation	773.66	773.8	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)					X	
Area at Design High Water Elevation (Ac)	0.25	0.28	X			
Active Storage Available (Ac-Ft)*	0.46	0.61	X			
Lowest Elevation at Top of Embankment (If Applicable)					X	
Average Elevation at Top of Embankment (If Applicable)					X	
Maximum Bottom Elevation	776	776.1	X			
Average Pond Bottom Elevation	775.5	775.68	X			
Pond Bottom Area (Ac)	0.15	0.16	X			
Maximum Pond Depth	2.83	2.8	X			
Average Pond Depth	2.33	2.12	X			
Average Permanent Pool Depth (Wet Ponds)					X	

*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>Place Photograph of Pond or Attach to Document</i></p>
	<p><i>See attached</i></p> <p><i>Place Photograph of Pond or Attach to Document</i></p>

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

Inspection Firm: The Sigma Group Inspector Name : Kevin Slottke, RLS; James Leedom, P.E.
 Phone Number: 414-643-4200 Inspection Date: 10/5/12; 10/9/12
 Address: 1300 W. Canal Street
 Milwaukee, WI 53233

Certifying Professional E-24081
 Name: James B. Leedom, P.E.
 Phone Number: 414-643-4200



<p>Date:</p> <p><i>10/10/12</i></p>	<p>Signature:</p> <p><i>[Handwritten Signature]</i></p>
-------------------------------------	---



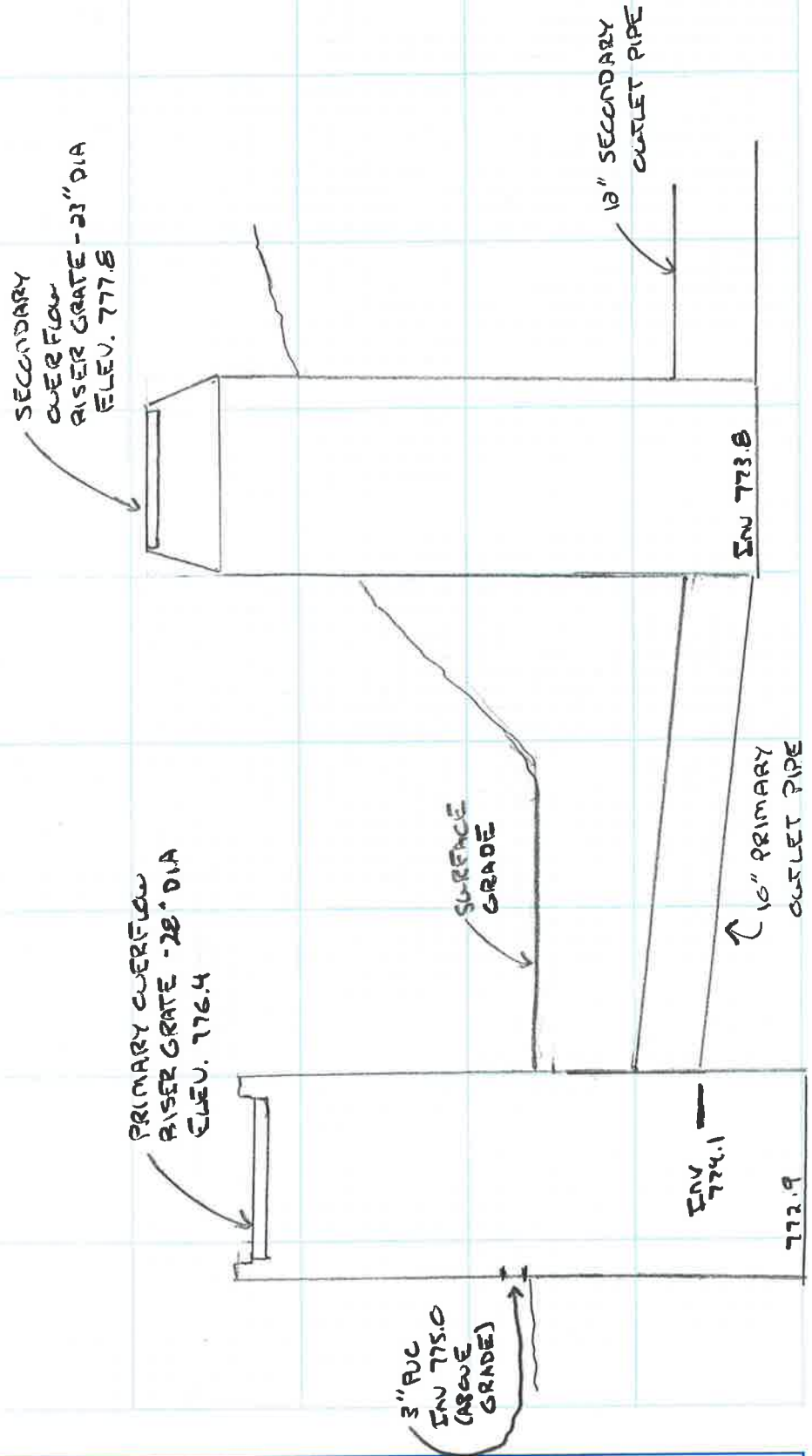
Pond I.D. #SWPO2S001
Looking west across dry basin



Pond I.D. #SWPO2S001
Looking east across dry basin

Harley Davidson Pitkin Road
 Pond I.D. SUPPRESSOR - Dry Detention Pond
 Outlet Structure Sketch

NTS



 THE SIGMA GROUP Single Source, Sound Solutions.	
Made by	Checked by
Date	Date
Project No.	Sheet No.

For

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A	N/A				
Elevation	N/A	N/A				
Other (Description)						
Opening Type and Size (inches)	N/A	N/A				
Elevation						
Emergency Spillway						
Elevation	775	773.8				
Length of spillway (feet)	12'	12' approx	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		Isolated areas with woody vegetation on north and south embankments and by 72" outfall into pond; small approximate 3'x3' area of erosion on north embankment possibly caused by animal burrows – see photos			
Animal burrows or slope erosion	X					
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	72" concrete		West end of pond		Outfall section disconnected – see photos	
Outfall 2	12" concrete		North side of pond		Outfall section disconnected – see photos	
Outfall 3	12" concrete		North side of basin		Good condition	
Outfall 4	12" concrete		North side of basin		Submerged	
Outfall 5	19"x30" concrete		North side of basin		Outfall section disconnected	
Outfall 6	18" PVC		NE side of basin		Good condition	
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
	Yes	No				GPS survey unit for ground shots; depth finder and survey rod for pond bottom
Normal Water Elevation (Wet Ponds)	770	773.7				
Design High Water Elevation	777.63	777.63				
Area at Normal Water Elevation (Ac) (Wet Ponds)	3.71	4.21				
Area at Design High Water Elevation (Ac)	5.12	4.99				
Active Storage Available (Ac-Ft)*	33.68	18.07				
Lowest Elevation at Top of Embankment (If Applicable)	777.5	776.9				
Average Elevation at Top of Embankment (If Applicable)	??	777.1				
Maximum Bottom Elevation	765	765				
Average Pond Bottom Elevation	764	764.26				
Pond Bottom Area (Ac)	2.79	2.61				
Maximum Pond Depth	12.63	12.63				
Average Pond Depth	13.63	13.37				
Average Permanent Pool Depth (Wet Ponds)	6.00	9.44			X	



Pond I.D. #SWPO2S002
Looking east across pond



Pond I.D. #SWPO2S002
Looking west across pond



Pond I.D. #SWPO2S002
Disconnected 12-inch outfall to pond



Pond I.D. #SWPO2S002
Disconnected 72-inch outfall to pond



Pond I.D. #SWPO2S002
Disconnected 19-inch x 30-inch outfall to pond



Pond I.D. #SWPO2S002
Localized erosion north side of pond



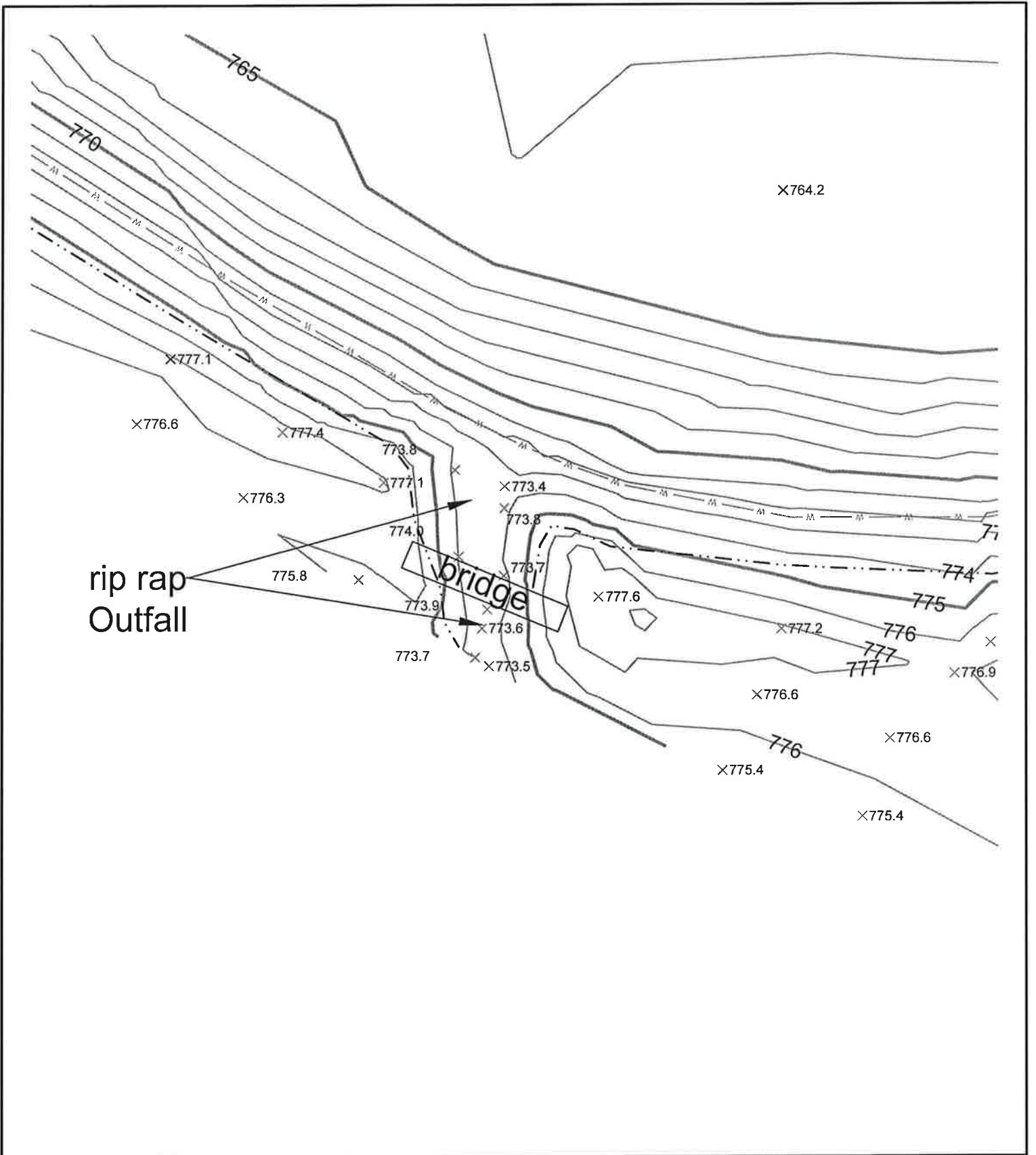
Pond I.D. #SWPO2S002
Woody vegetation along north embankment of pond




Pond I.D. #SWPO2S002
Woody vegetation along south embankment of pond



Pond I.D. #SWPO2S002
Woody vegetation by 72-inch outfall into pond



Harley Davidson Motor Company Pilgrim Road Facility			 www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210	
DATE: 10/9/12	DRW: KAS	13483-V030-B.dwg	SCALE: 1" = 20'	
Outfall Detail			FIGURE 1	