



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	15 NE	Name of Business/Subdivision	HUNTER'S RIDGE ESTATES
Property Tax ID Number	0057158	Address of Property	

Dry Pond	X
Wet Pond	
Other	

Description: SWP15N005 P-0065B, U-0261	Location Of Pond SOUTHWEST OF PILGRIM RD & COUNTRYSIDE DR
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Year Pond Constructed	1987	Year of Last Certification	2013
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Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe (ST001974)				Outlet Pipe Material
Opening Diameter (inches)	18" RCP	18" RCP	- -	18" RCP IN GOOD CONDITION, REPAIR GAP/SMALL SINK HOLE @ JOINT
Upstream Invert	837.50	837.78	- -	
Downstream Invert	837.50	837.00	- -	
Length (feet)	54.0 FT	55.5 FT	- -	
Slope (%)	0.0024',	0.0141',	- -	
Secondary Outlet Pipe	N/A			Outlet Pipe Material
Opening Diameter (inches) (ST001976)	15" RCP	15" RCP	- -	15" RCP IN GOOD CONDITION
Upstream Invert	837.50	837.67	- -	
Downstream Invert	837.50	837.20	- -	
Length (feet)	6.0 FT	5.0 FT	- -	
Slope (%)	0.0000',	0.0940',	- -	
Riser	N/A			Riser Material
Opening Diameter (inches)				
Elevation				
Upper Discharge Control	N/A			
Opening Diameter (inches)				
Elevation				

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	N/A					
Opening Diameter (inches)						
Elevation						
Other (Description)	N/A					
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	842.00	841.68				
Length of spillway (feet)	10.0 FT	3.0 FT				
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N	1) REPAIR JOINT GAP/SINK HOLE @ OUTLET PIPE 2) REMOVE DEBRIS FROM CONCRETE CHANNEL			
Animal burrows or slope erosion or hole	Y	-				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST006016)	RCP - 36"		NORTHWESTERLY EMBANKMENT		RCP IN GOOD CONDITION	
Outfall 2						
Outfall 3						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	-	-	-	-	N/A	GPS EQUIPMENT: GEOMAX ZENITH35 & CARLSON SURVEYOR2 WITH SURV CE v5.04
Design High Water Elevation	842.00	841.68				
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	0.667 AC				
Active Storage Available (Ac-Ft)*	-	1.616 ACFT				
Lowest Elevation at Top of Embankment (If Applicable)	842.00	841.68				
Average Elevation at Top of Embankment (If Applicable)	844.00	844.70				
Maximum Bottom Elevation	842.00	840.33				
Average Pond Bottom Elevation	838.50	839.00				
Pond Bottom Area (Ac)	-	0.208 AC				
Maximum Pond Depth	4.5 FT	3.9 FT				
Average Pond Depth	4.0 FT	2.68 FT				
Average Permanent Pool Depth (Wet Ponds)	-	-	-	-	N/A	

*To Determine Active Storage $V = \left(\left(\frac{H}{3} \right) \left(A_1 + A_2 + \left(\left(A_1 + A_2 \right)^{\wedge} \left(\frac{1}{2} \right) \right) \right) \right)$
 Wet Ponds Use *H* = Height of Section , *A*1= area at normal water elevation, *A*2=area at top section
 Dry Ponds Use *H*= Height of Section, *A*1= pond bottom area, *A*2=area at top section

Hunter's Ridge Estates (Pilgrim Rd & Countryside)
Retention Pond - SWP15N005

Overview



ST006016



Hunter's Ridge Estates (Pilgrim Rd & Countryside)
Retention Pond - SWP15N005

ST001973, ST001974, & Emergency Spillway



Emergency Spillway Inlet ST001976 & Manhole ST001975



Hunter's Ridge Estates (Pilgrim Rd & Countryside) Retention Pond - SWP15N005

Repairs Needed (8/2018)

- 1) Fix top of RCP
- 2) Fill Sink Hole



- 3) Remove Gravel, Grass, Leaves, Sediment form Concrete Channel



Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

Inspection Firm: VILLAGE OF
MENOMONEE FALLS
Phone Number: 262-532-4411
Address: W156N8480 PILGRIM RD
MENOMONEE FALLS, WI
53051

Inspector Name : CHRISTOPHER M GARIEPY

Inspection Date: 08/09/2018

Certifying Professional Name: THOMAS M. HOFFMAN
Phone Number: (262) 532-4415



Date:

4/3/2019

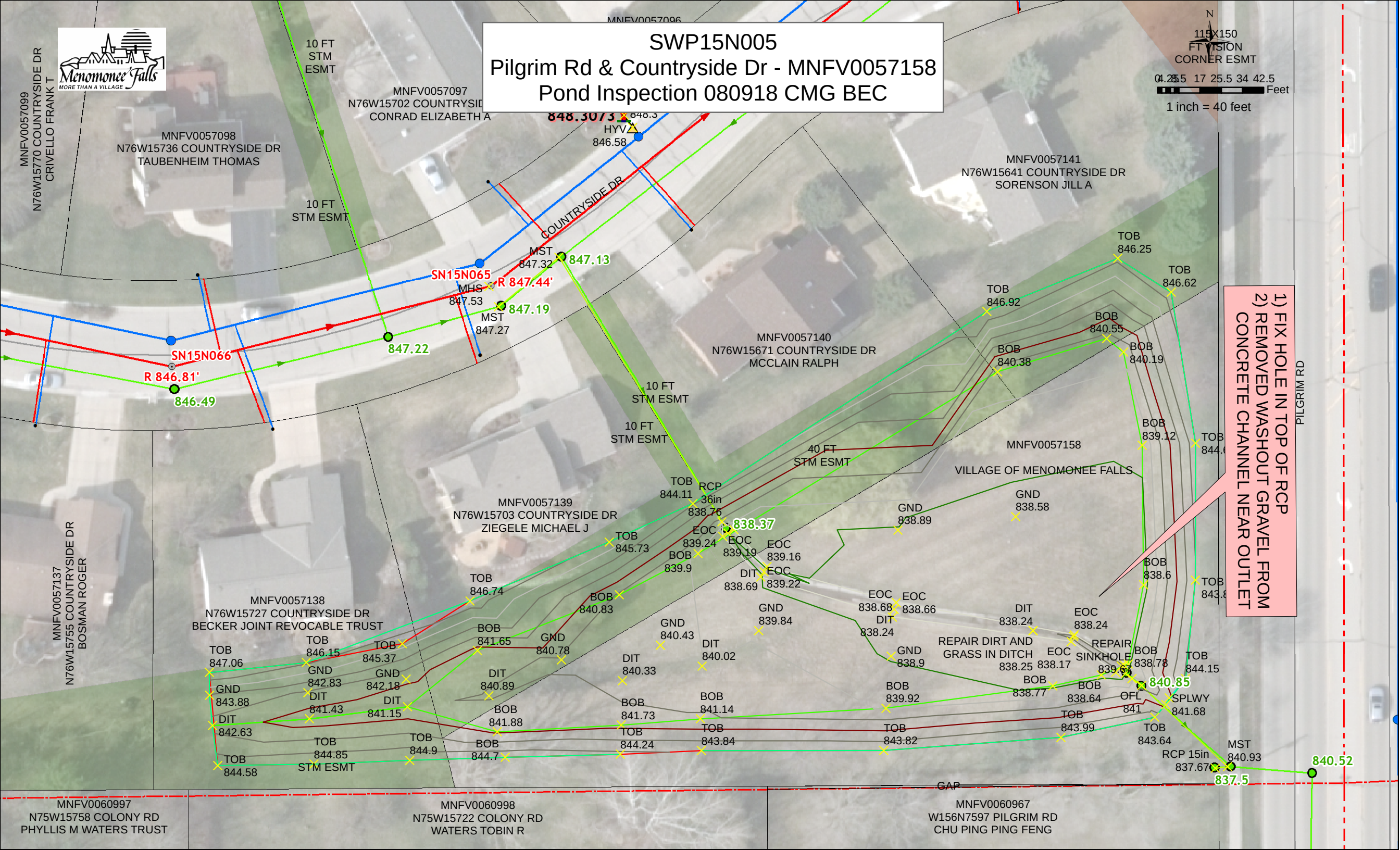
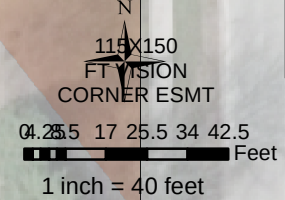
Signature:

[Handwritten Signature]

Affix Seal Here



SWP15N005
Pilgrim Rd & Countryside Dr - MNFV0057158
Pond Inspection 080918 CMG BEC



- 1) FIX HOLE IN TOP OF RCP
- 2) REMOVED WASHOUT GRAVEL FROM CONCRETE CHANNEL NEAR OUTLET

$$H = \cancel{841.63 - 370} \quad 841.63 - 839.00 = 2.63 \text{ FT}$$

2018

$$A_1 = 0.208 \text{ AC}$$

15 NOV 05

$$A_2 = 0.667 \text{ AC} \quad \text{Pelgrim + Countywide Basin}$$

$$V = \left(\frac{H}{3} \right) (A_1 + A_2 + \sqrt{A_1 + A_2})$$

$$V = \left(\frac{2.63}{3} \right) (0.208 \text{ AC} + 0.667 \text{ AC} + \sqrt{0.208 \text{ AC} + 0.667 \text{ AC}})$$

$$V = (0.877 \text{ FT}) (0.875 \text{ AC} + \sqrt{0.875 \text{ AC}})$$

$$V = (0.877 \text{ FT}) (0.875 \text{ AC} + 0.935 \text{ AC})$$

$$V = (0.877 \text{ FT}) (1.810 \text{ AC})$$

$$V = 1.616 \text{ AC FT} \quad \text{CNG} \quad 8/16/18$$