



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 III
Property Tax ID Number 0057288 Address of Property _____

Dry Pond	X
Wet Pond	
Other	

Description: SWP15N006
P-0066B, U-0272

Location Of Pond NORTHWEST CORNER OF
PILGRIM RD & CROSSWAY DR

Year Pond Constructed 1988 Year of Last Certification 2018

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe (ST012723)					Outlet Pipe Material
Opening Diameter (inches)	10" RCP	12" RCP	Y	-	12" RCP IN GOOD CONDITION, REPAIR GAP/SINK HOLE IN JOINT
Upstream Invert	833.50	833.35	Y	-	
Downstream Invert	833.25	831.68	Y	-	
Length (feet)	104.0 FT	105.6 FT	Y	-	
Slope (%)	0.0105%,	0.0158%,	Y	-	
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	N/A				Riser Material
Opening Diameter (inches) (ST012722)	30" X 30"	30" X 30"	Y		REINFORCED CONCRETE/CAST IRON GRATE
Elevation	842.00	841.17	Y		
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	842.59	Y			
Length of spillway (feet)	10.0 FT	21.0 FT	Y			
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N	1) REMOVE SEDIMENT FROM 12" RCP OUTLET PIPE 2) TRIP HAZARD/TRENCH. REPAIR TRIP HAZARD.			
Animal burrows or slope erosion or hole	Y	-				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST12724)	RCP - 42"		SOUTH 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	842.59	Y	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	0.410 AC	Y	-		
Active Storage Available (Ac-Ft)*	-	3.178 ACFT	Y	-		
Lowest Elevation at Top of Embankment (If Applicable)	840.00	842.59	Y	-		
Average Elevation at Top of Embankment (If Applicable)	842.00	843.20	Y	-		
Maximum Bottom Elevation	834.00	834.09	Y	-		
Average Pond Bottom Elevation	834.00	834.20	Y	-		
Pond Bottom Area (Ac)	-	0.045 AC	Y	-		
Maximum Pond Depth	8.5 FT	8.50 FT	Y	-		
Average Pond Depth	6.5 FT	8.39 FT	Y	-		
Average Permanent Pool Depth (Wet Ponds)	-	-	-	-	N/A	

*To Determine Active Storage $V = \left(\left(\frac{H}{3} \right) \left(A1 + A2 + \left(\left(A1 + A2 \right)^{\left(\frac{1}{2} \right)} \right) \right) \right)$
 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

Hunter's Ridge Estates (Pilgrim & Crossway) Retention Pond - SWP15N006

Overview



Outlet ST012724



Hunter's Ridge Estates (Pilgrim & Crossway)
Retention Pond - SWP15N006

Overflow ST012722



Inlet ST012723



Hunter's Ridge Estates (Pilgrim & Crossway)
Retention Pond - SWP15N006

Repairs Needed (11/2023)

- 1) Repair trip hazard.
- 2) Remove sediment from outlet pipe ST012723.



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: 11/15/2023

Certifying THOMAS M. HOFFMAN, P.E.

Professional Name:

Phone Number: (262) 532-4415

Date:

2/26/2024

Signature:



Affix Seal Here

Acre Feet pond storage volume calculations for:

Hunter's Ridge Estates on Crossway Dr
SWP15N006

= Entered Value
= Calculated Value
= Description of Elevations Calculated

Year of Inspection: 2023

Example: $H = H2 - H1$, where $H2 > H1$

H1 =	<u>834.20</u>	Lower Height Elevation in Feet (Pond Bottom for Dry Pond OR Top of Observed Water Level)
H2 =	<u>842.59</u>	Height at Bottom of Spillway (Wet or Dry)
H3 =	<u>843.50</u>	Higher Height Elevation in Feet (Top of Bank Around Pond - Wet or Dry)
H4 =	<u>0.00</u>	Bottom of Wet Pond Elevation in Feet (Wet Ponds Only)
	Sq.Ft.	Acres
Area 1 =	<u>1,943.40</u>	<u>0.0446</u> Area of H1
Area 2 =	<u>17,865.30</u>	<u>0.4101</u> Area of H2
Area 3 =	<u>19,625.70</u>	<u>0.4505</u> Area of H2
Area 4 =	-	<u>0.0000</u> Area of H3
		Area 1 = Area at Pond Bottom for Dry Pond OR Top of Observed Water Level
		Area 2 = Area at Bottom of Spillway
		Area 3 = Area at Top of Bank
		Area 4 = Area at Bottom of Pond (Wet Ponds Only)

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Dry Pond to Bottom of Spillway:

$$V = (((H2-H1)/3)(A1+A2 + (v(A1+A2))))$$

	Feet		Acres		Acres
V=	$((H2-H1)/3)$	x	$(A1+A2)$	+	$v(A1+A2)$
V=	2.7967	x	0.4547	+	0.6743
V=	2.7967	x	1.1291		
V=	3.1577	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Dry Pond to Top of Bank at Spillway:

$$V = (((H3-H1)/3)(A1+A3 + (v(A1+A3))))$$

	Feet		Acres		Acres
V=	$((H3-H1)/3)$	x	$(A1+A3)$	+	$v(A1+A3)$
V=	3.1000	x	0.4952	+	0.7037
V=	3.1000	x	1.1988		
V=	3.7164	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Pond to Top of Water:

$$V = (((H1-H4)/3)(A1+A4 + (v(A1+A4))))$$

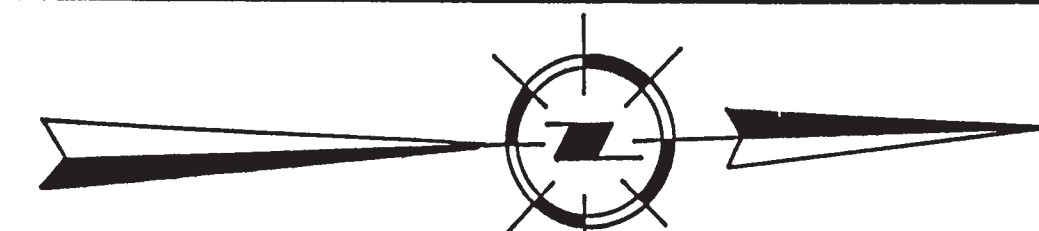
	Feet		Acres		Acres
V=	$((H1-H4)/3)$	x	$(A1+A4)$	+	$v(A1+A4)$
V=	278.0667	x	0.0446	+	0.2112
V=	278.0667	x	0.2558		
V=	71.1393	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Pond to Top of Bank at Spillway:

$$V = (((H3-H4)/3)(A3+A4 + (v(A3+A4))))$$

	Feet		Acres		Acres
V=	$((H3-H4)/3)$	x	$(A3+A4)$	+	$v(A3+A4)$
V=	281.1667	x	0.4505	+	0.6712
V=	281.1667	x	1.1218		
V=	315.4043	AcFt			

0 7.5 15 22.5 30
 Feet
 1 inch = 30 feet



SCALE:
1" = 40'

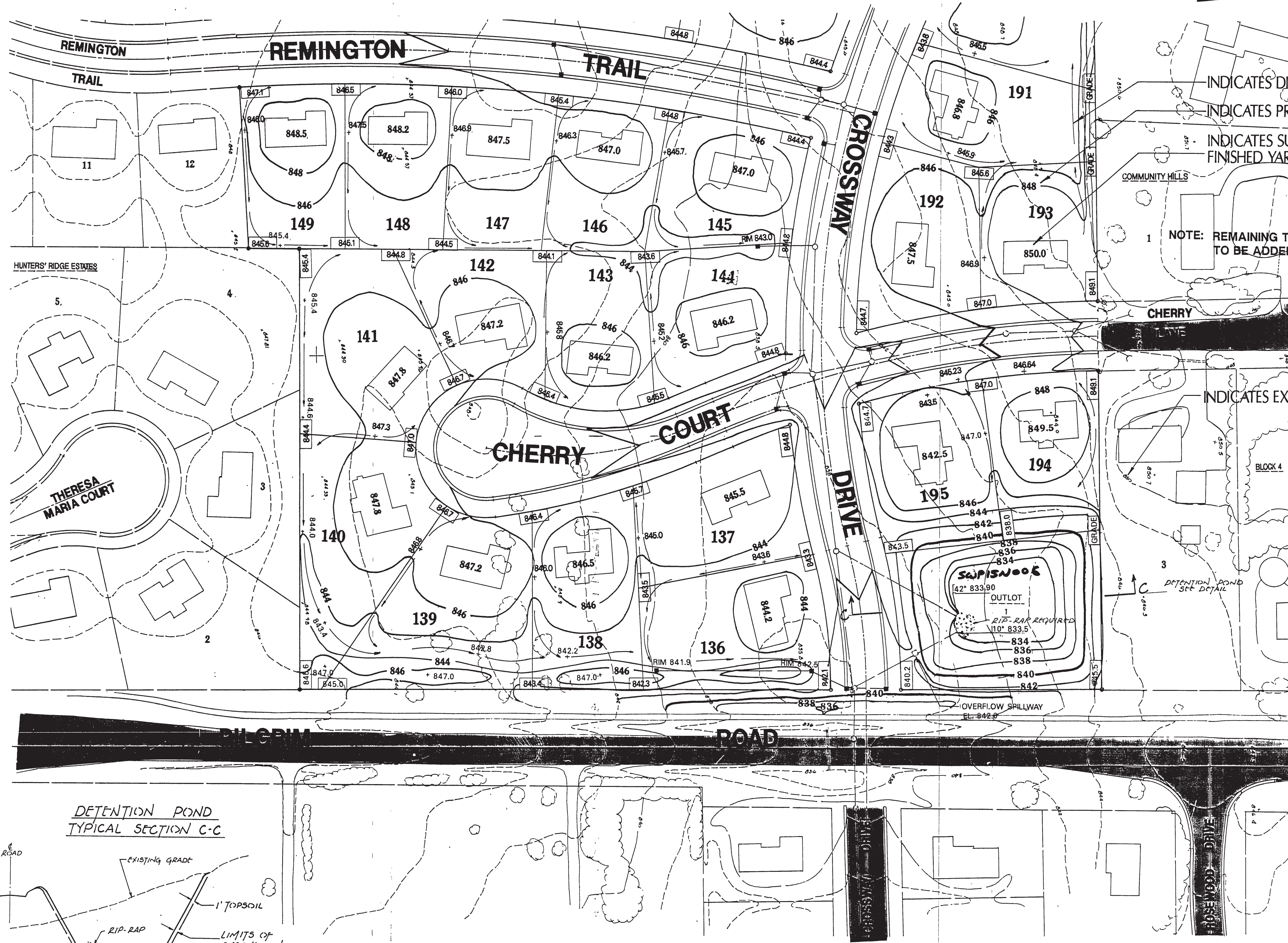
INDICATES DIRECTION OF FLOW

INDICATES PROPOSED GRADE

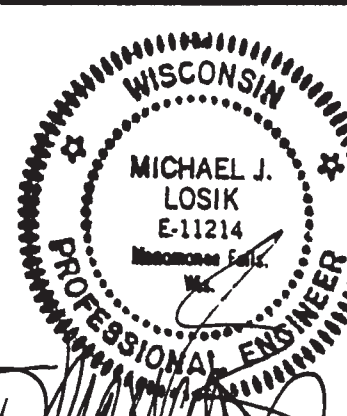
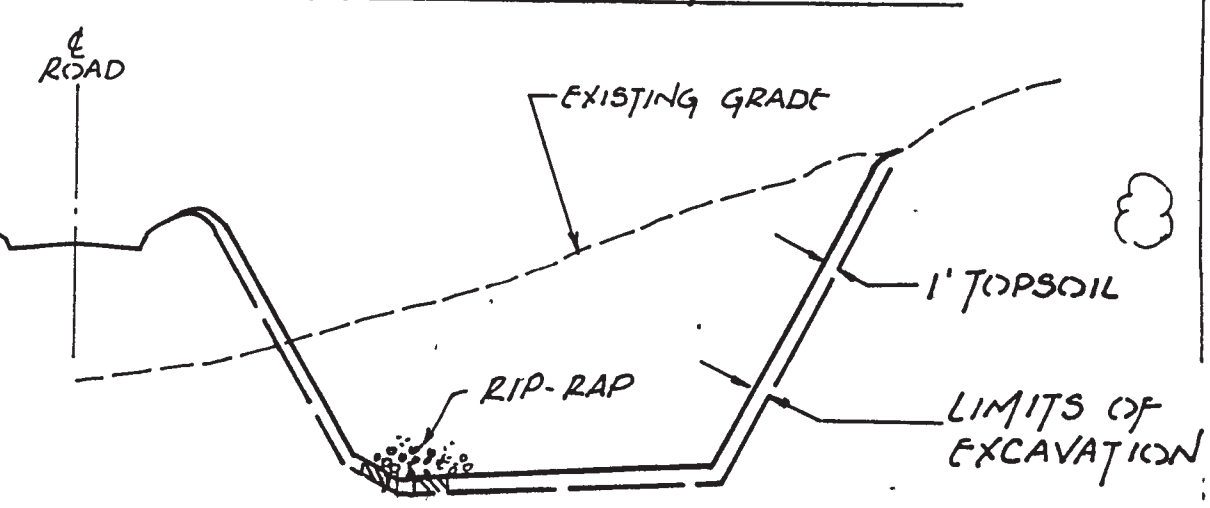
INDICATES SUGGESTED
FINISHED YARD GRADE

NOTE: REMAINING TRENCH SPOIL
TO BE ADDED TO LOTS 185-192

INDICATES EXISTING GRADE



DETENTION POND
TYPICAL SECTION C-C



job number: 86-14
drawn by: BA
checked by: M.J.L.

LOSIK
MICHAEL
J.
LOSIK
&
ASSOC.,
INC.

MICHAEL J. LOSIK & ASSOC., INC.
240 REGENCY COURT, SUITE 301
WILKESHA, WI 53186
(414) 784-7909

revisions	
date	description
4-20-89	

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A Residential Community
HUNTERS' RIDGE ESTATES III
by
J.B.J. CONSTRUCTION, INC.
Village of Menomonee Falls

Master Grading
&
Drainage Plan

SHEET 18 OF 21

JANUARY 13, 1989

SWPISN006 P-0066B Q-127 (C)

