



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
Property Tax ID Number

MNFV
0053027002

Name of Business/Subdivision
Address of Property

Spec-Shep
N79W14749 Appleton Ave.

Date: September 25, 2020

Menomonee Falls, WI

| | | | | |
|----------|-------------------------------------|---------------------------|------------------|------------------------------------------|
| Dry Pond | <input checked="" type="checkbox"/> | Pond ID: <u>SWP14N001</u> | Location of Pond | Along southerly property line mid point. |
| Wet Pond | <input type="checkbox"/> | | | |
| Other | <input type="checkbox"/> | | | |

Year Pond
Constructed

2005

Year of Last
Certification

2015

| Compliance Verification | Design | Actual | Compliant Yes | No | Comments (Condition of Structure) |
|--------------------------------|-----------------|--------|------------------|----|----------------------------------------------|
| Primary Outlet Pipe | | | | | |
| Opening Diameter (inches) | 2" | 2" | X | | PVC. Good condition. No clogging or cracking |
| Upstream Invert | 805.0 | 805.03 | X | | |
| Downstream Invert | | | | | |
| Length (feet) | | | | | |
| Slope (%) | | | | | |
| Secondary Outlet Pipe | (If Applicable) | | | | |
| Opening Diameter (inches) | - | - | | | |
| Upstream Invert | - | - | | | |
| Downstream Invert | - | - | | | |
| Length (feet) | - | - | | | |
| Slope (%) | - | - | | | |
| Riser | (If Applicable) | | | | |
| Opening Diameter (inches) | 8" | 8" | X | | PVC. Good condition. No clogging or cracking |
| Elevation | 810.25 | 810.25 | X | | |
| Upper Discharge Control | (If Applicable) | | | | |
| Opening Diameter (inches) | - | - | | | |
| Elevation | - | - | | | |

| Compliance Verification | Design | Actual | Compliant Yes | No | Comments | |
|--------------------------------------------------------|------------------------|------------|----------------------------------------------------------------------|----|-------------------------------------------------------------|---------------------------------------------------------|
| Lower Discharge Control | (If Applicable) | | | | | |
| Opening Diameter (inches) | 2.75" | 2.75" | X | | | |
| Elevation | 807.89 | 807.9 | X | | | |
| Other (Description) | | | | | | |
| Opening Type and Size (inches) | - | - | | | | |
| Elevation | - | - | | | | |
| Emergency Spillway | | | | | | |
| Elevation | 810 | 810.2 | X | | | |
| Length of spillway (feet) | | | X | | The overflow from the pond will head towards the Northeast. | |
| Embankment | Present Yes No | | Comments/Maintenance Requirements | | | |
| Unauthorized Plantings, trees, or woody vegetation | | X | Cat tails throughout pond bottom and banks. Remove excess vegetation | | | |
| Animal burrows or slope erosion | | X | | | | |
| Storm Sewer Outfalls | Type & Size | | Location | | Comments | |
| Outfall 1 | 6" PVC | | NE Side of pond | | Good condition | |
| Outfall 2 | 12" HDPE | | North side of pond - middle | | Excess vegetation. Could not locate | |
| Outfall 3 | | | | | | |
| Storage Properties | Design | Actual | Compliant Yes | No | Not Applicable | Equipment Used |
| Normal Water Elevation (Wet Ponds) | | | | | X | Estimate. Original intent Unknown. Gps/Total Station |
| Design High Water Elevation | | | | | | |
| Area at Normal Water Elevation (Ac) (Wet Ponds) | | | | | X | |
| Area at Design High Water Elevation (Ac) | 1,850 s.f. | 1,900 s.f. | X | | | |
| Active Storage Available (Ac-Ft)* | | .05 | | | | |
| Lowest Elevation at Top of Embankment (If Applicable) | 810 | 810.2 | X | | | |
| Average Elevation at Top of Embankment (If Applicable) | 810 | 810.5 | X | | | Gps/Total Station |
| Maximum Bottom Elevation | | | | | | Gps/Total Station |
| Average Pond Bottom Elevation | 805 | 805.14 | X | | | |
| Pond Bottom Area (Ac) | 50 s.f. | 55 s.f. | X | | | |
| Maximum Pond Depth | 5.0 | 5.0 | X | | | |
| Average Pond Depth | 2.5 | 2.5 | X | | | |
| Average Permanent Pool Depth (Wet Ponds) | | | | | | |

*To Determine Active Storage $V=H/3(A1+A2+(A1 \times A2)/2)$

Wet Ponds Use $H = \text{Height of Section}$, $A1 = \text{area at normal water elevation}$, $A2 = \text{area at top section}$

Dry Ponds Use $H = \text{Height of Section}$, $A1 = \text{pond bottom area}$, $A2 = \text{area at top section}$



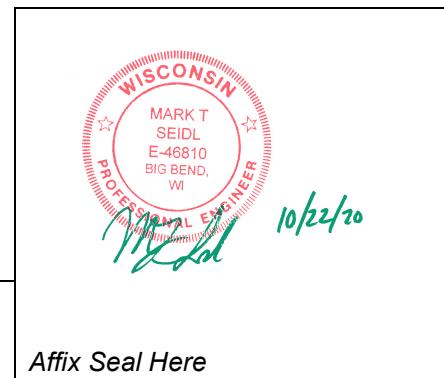
Attach As-built Survey to the Document for the first report submission

Inspection Firm: Pinncale Engineering Group
 Phone Number: 262-754-8888
 Address: 20725 Watertown Road
Suite 100
Brookfield, WI 53186

Inspector Name : Adam Thurow
 Inspection Date: September 25, 2020

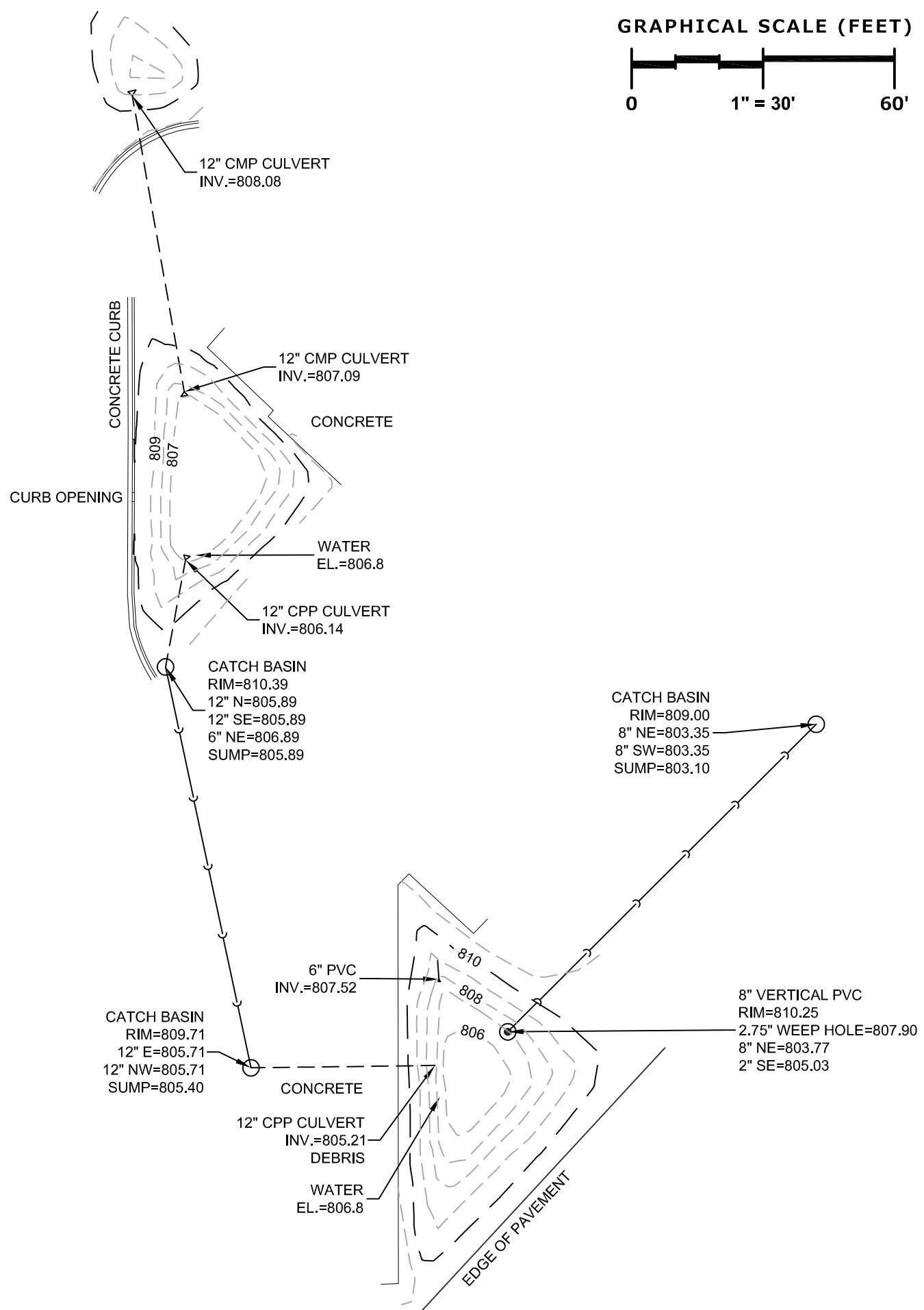
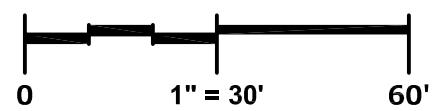
Certifying Professional Mark Seidl
 Name: _____
 Phone Number: 262-754-8792

| | |
|-----------------------|----------------------------|
| Date: <u>10/22/20</u> | Signature: <u>M. Seidl</u> |
|-----------------------|----------------------------|





GRAPHICAL SCALE (FEET)



GENERAL NOTES

1. Address: N79W14749 Appleton Avenue, Menomonee Falls WI
2. Field work completed on SEPTEMBER 29, 2020.
3. Existing improvements graphically shown on this survey are limited to a predefined "Project Area" specified by the Owner/Client. Pinnacle Engineering Group, LLC takes no responsibility for improvements outside of this "Project Area".
4. Vertical Datum: National Geodetic Vertical Datum of 1929 (NGVD29). Contours are shown at a 1' interval based on actual ground survey of the current ground terrain. Reference Benchmark: Concrete monument with brass cap at the northwest corner of the Northeast 1/4 Section 14, Town 8 North, Range 20 East, Elevation = 805.73.

EXISTING CONDITIONS

10/01/2020

PINNACLE ENGINEERING GROUP

20725 WATERTOWN ROAD | SUITE 100 | BROOKFIELD, WI 53186

WWW.PINNACLE-ENGR.COM

PLAN | DESIGN | DELIVER

PEG JOB #2148.00