



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 NW 1/4 Sec  
Property Tax ID Number 23-8-20 Name of Business/Subdivision Pilgrim Glen Condominium Plat  
0090-996-168 Addendum No. 2  
thru  
0090-996-197 Address of Property Tartan Circle  
Date 8/31/20

|          |   |
|----------|---|
| Dry Pond |   |
| Wet Pond | X |
| Other    |   |

Location of Pond SE Quadrant of Property  
Pond ID: SWP23N004

Year Pond Constructed 2008 Year of Last Certification 2015

| Compliance Verification        | Design          | Actual   | Compliant<br>Yes No | Comments<br>( Condition of Structure)                          |
|--------------------------------|-----------------|----------|---------------------|----------------------------------------------------------------|
| <b>Primary Outlet Pipe</b>     |                 |          |                     | <b>Outlet Pipe Material</b>                                    |
| Opening Diameter (inches)      | 12"             | 12"      |                     | Reinforced Concrete Pipe                                       |
| Upstream Invert                | 823.00          | 823.29   | ✓                   | Accumulative silt at opening and bottom of outlet structure    |
| Downstream Invert              | 822.55          | 822.33   | ✓                   | Recommend removal of silt.                                     |
| Length (feet)                  | 45.0'           | 50.4'    | ✓                   | 12" pipe still has plate 4" const. orifice. Should be removed. |
| Slope (%)                      | 0.010 'f        | 0.019 'f | ✓                   |                                                                |
| <b>Secondary Outlet Pipe</b>   | (If Applicable) |          |                     | <b>Outlet Pipe Material</b>                                    |
| Opening Diameter (inches)      |                 |          |                     |                                                                |
| Upstream Invert                |                 |          |                     |                                                                |
| Downstream Invert              |                 |          |                     |                                                                |
| Length (feet)                  |                 |          |                     |                                                                |
| Slope (%)                      |                 |          |                     |                                                                |
| <b>Riser</b>                   | (If Applicable) |          |                     | <b>Riser Material</b>                                          |
| Opening Diameter (inches)      |                 |          |                     |                                                                |
| Elevation                      |                 |          |                     |                                                                |
| <b>Upper Discharge Control</b> | (If Applicable) |          |                     |                                                                |
| Opening Diameter (inches)      |                 |          |                     |                                                                |
| Elevation                      |                 |          |                     |                                                                |

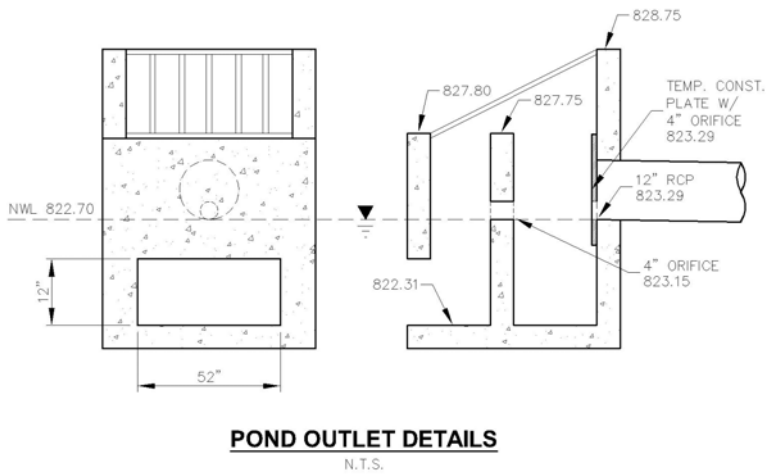
| Compliance Verification                                | Design            | Actual  | Compliant<br>Yes No                                                                              |  | Comments         |                                                  |
|--------------------------------------------------------|-------------------|---------|--------------------------------------------------------------------------------------------------|--|------------------|--------------------------------------------------|
| <b>Lower Discharge Control</b>                         | (If Applicable)   |         |                                                                                                  |  |                  |                                                  |
| Opening Diameter (inches)                              | _____             | _____   |                                                                                                  |  |                  |                                                  |
| Elevation                                              | _____             | _____   |                                                                                                  |  |                  |                                                  |
| <b>Other (Description)</b>                             |                   |         |                                                                                                  |  |                  |                                                  |
| Opening Type and Size (inches)                         | 4" DIA.           | 4" DIA. |                                                                                                  |  | Vertical Orifice |                                                  |
| Elevation                                              | 823.00            | 823.15  | ✓                                                                                                |  |                  |                                                  |
| <b>Emergency Spillway</b>                              |                   |         |                                                                                                  |  |                  |                                                  |
| Elevation                                              | 827.50            | 827.40  | ✓                                                                                                |  |                  |                                                  |
| Length of spillway (feet)                              | 20.0'             | 20.8'   | ✓                                                                                                |  |                  |                                                  |
| <b>Embankment</b>                                      | Present<br>Yes no |         | Comments/Maintenance Requirements                                                                |  |                  |                                                  |
| Unauthorized Plantings, trees, or woody vegetation     | ✓                 |         | Some vegetative growth around and inside outlet structure. Recommend clearing for full function. |  |                  |                                                  |
| Animal burrows or slope erosion                        |                   | ✓       |                                                                                                  |  |                  |                                                  |
| <b>Storm Sewer Outfalls</b>                            | Type & Size       |         | Location                                                                                         |  | Comments         |                                                  |
| Outfall 1 (ES-13)                                      | RCP 15"           |         | North Portion of Pond                                                                            |  |                  |                                                  |
| Outfall 2                                              |                   |         |                                                                                                  |  |                  |                                                  |
| Outfall 3                                              |                   |         |                                                                                                  |  |                  |                                                  |
| <b>Storage Properties</b>                              | Design            | Actual  | Compliant<br>Yes No                                                                              |  | Not Applicable   | Equipment Used                                   |
| Normal Water Elevation (Wet Ponds)                     | 823.00            | 822.70  | ✓                                                                                                |  |                  | Trimble R6 GPS<br><br>HWL Calculated by HydroCAD |
| Design High Water Elevation                            | 827.58            | 827.87  | ✓                                                                                                |  |                  |                                                  |
| Area at Normal Water Elevation (Ac) (Wet Ponds)        | 0.330             | 0.288   | ✓                                                                                                |  |                  | Lowest Bottom Elevation                          |
| Area at Design High Water Elevation (Ac)               | 0.628             | 0.600   | ✓                                                                                                |  |                  |                                                  |
| Active Storage Available (Ac-Ft)*                      | 2.150             | 2.029   | ✓                                                                                                |  |                  |                                                  |
| Lowest Elevation at Top of Embankment (If Applicable)  | 828.50            | 827.80  | ✓                                                                                                |  |                  |                                                  |
| Average Elevation at Top of Embankment (If Applicable) | 828.50            | 828.52  | ✓                                                                                                |  |                  |                                                  |
| Maximum Bottom Elevation                               | 818.00            | 817.13  | ✓                                                                                                |  |                  |                                                  |
| Average Pond Bottom Elevation                          | 818.00            | 817.64  | ✓                                                                                                |  |                  |                                                  |
| Pond Bottom Area (Ac)                                  | 0.112             | 0.079   | ✓                                                                                                |  |                  |                                                  |
| Maximum Pond Depth                                     | 5.0'              | 5.6'    | ✓                                                                                                |  |                  |                                                  |
| Average Pond Depth                                     | 5.0'              | 5.1'    | ✓                                                                                                |  |                  |                                                  |
| Average Permanent Pool Depth (Wet Ponds)               | 5.0'              | 5.1'    | ✓                                                                                                |  |                  |                                                  |

\*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

**Outlet Sketch**



*Place Photograph of Pond or Attach to Document*

*Place Photograph of Pond or Attach to Document*

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

|                  |                                       |                  |                    |
|------------------|---------------------------------------|------------------|--------------------|
| Inspection Firm: | <u>JSD Professional Services, Inc</u> | Inspector Name : | <u>Jay Averill</u> |
| Phone Number:    | <u>(262) 513-0666</u>                 | Inspection Date: | <u>8/20/2020</u>   |
| Address:         | <u>W238 N1610 Busse Road.</u>         |                  |                    |
|                  | <u>Suite 100</u>                      |                  |                    |
|                  | <u>Waukesha, WI 53188</u>             |                  |                    |

|                    |                                         |
|--------------------|-----------------------------------------|
| Certifying         |                                         |
| Professional Name: | <u>Rizal Iskandarsjach P.L.S., P.E.</u> |
| Phone Number:      | <u>(262) 513-0666</u>                   |



|                |                            |
|----------------|----------------------------|
| Date:          | Signature:                 |
| <u>8/31/20</u> | <u>Rizal Iskandarsjach</u> |



Photo 1: West side of pond, looking northeasterly.

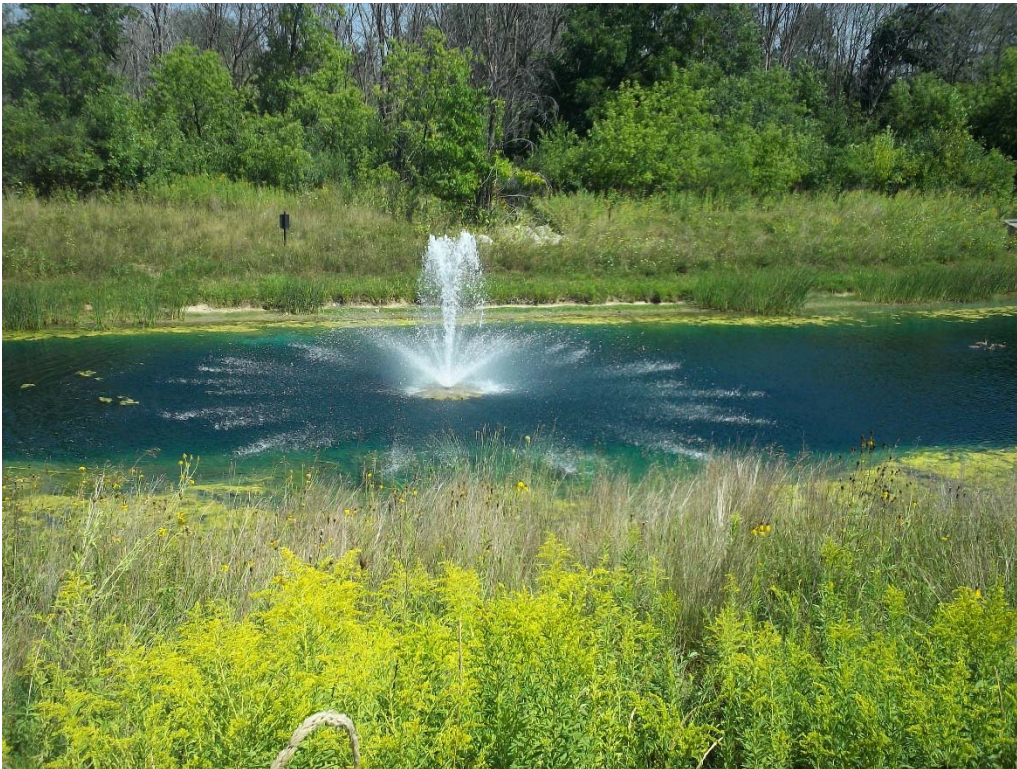


Photo 2: West side of pond, looking easterly.



Photo 3: West side of pond, looking southeasterly.



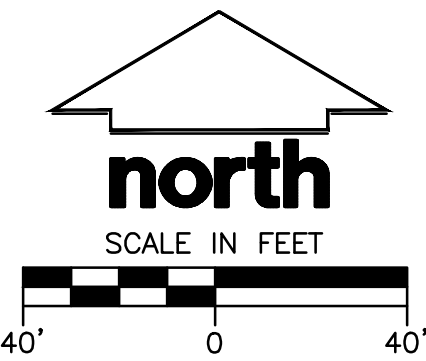
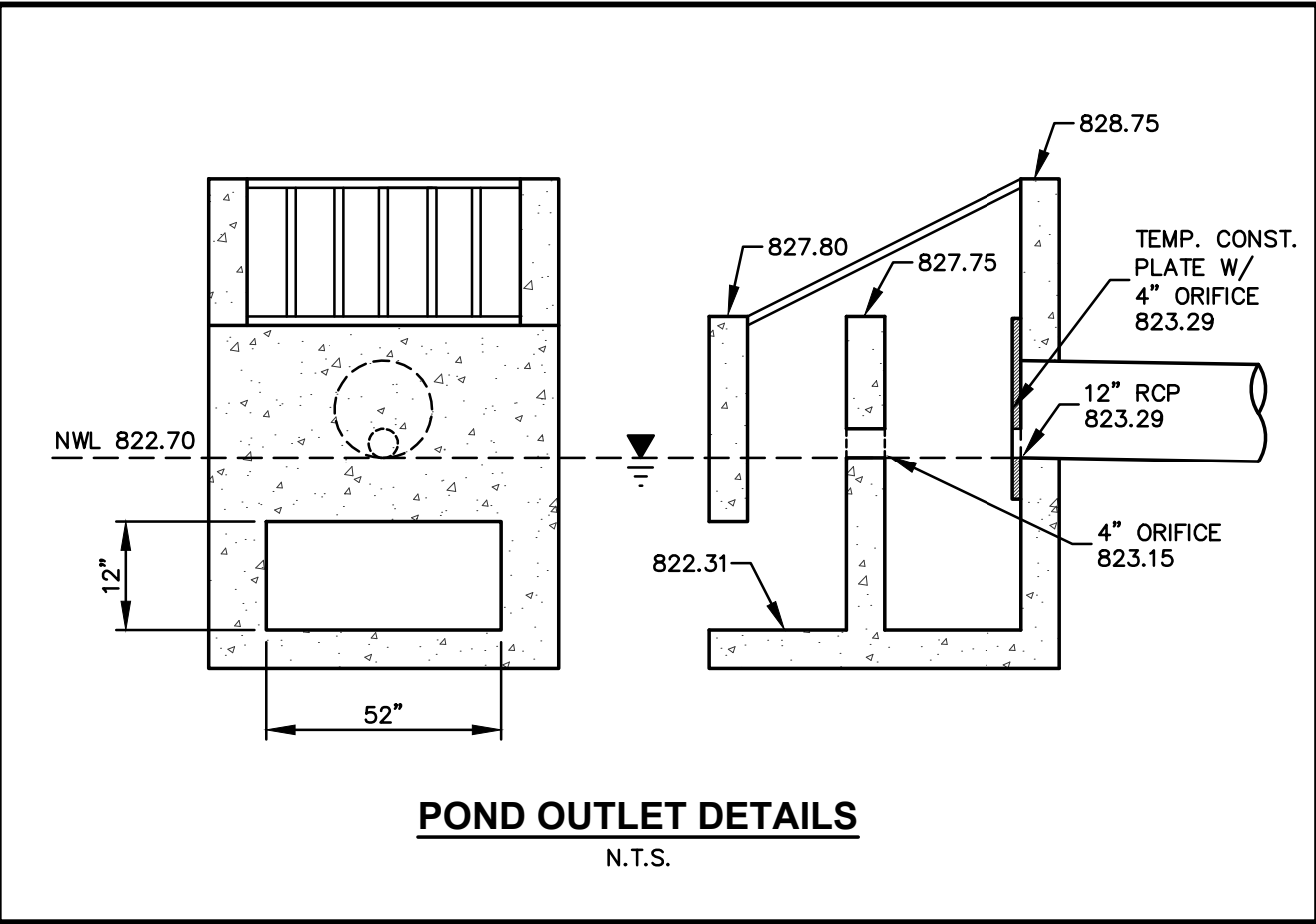
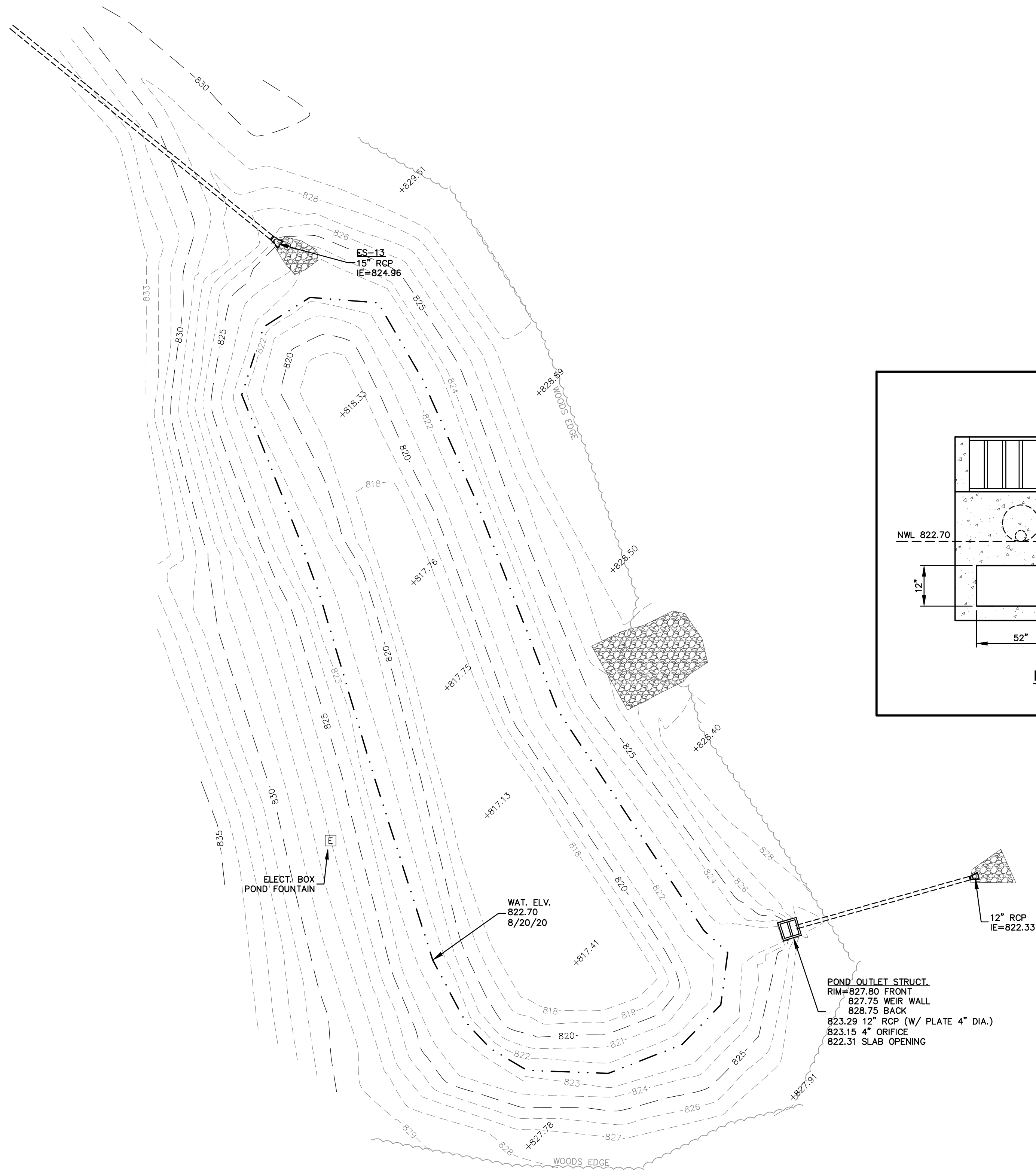
Photo 4: Outlet structure intake silted.



Photo 5: Outlet structure bottom silted and contains vegetations.



Photo 6: Outlet structure 12" outlet still has the temporary construction plate w/ 4" orifice.



- CIVIL ENGINEERING
- SURVEYING & MAPPING
- CONSTRUCTION SERVICES
- WATER RESOURCES
- PLANNING & DEVELOPMENT
- TRANSPORTATION ENGINEERING
- LANDSCAPE ARCHITECTURE

MILWAUKEE REGIONAL OFFICE  
W238N1610 BUSSE ROAD SUITE 100  
WAUKESHA, WISCONSIN 53188  
262.513.0666 PHONE | 262.513.1232 FAX  
MADISON | MILWAUKEE | CHICAGO  
KENDOSH | APPLETON | WAUSAU

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SERVICES PROVIDED TO:  
**PILGRIM GLEN  
HOMEOWNER'S  
ASSOCIATION  
ATTN: PROFESSIONAL  
PROPERTIES  
CONSULTANTS**

PROJECT:  
**PILGRIM GLEN CONDO  
POND INSPECTION**

PROJECT LOCATION:  
VILLAGE OF MENOMONEE FALLS  
WAUKESHA COUNTY, WI

JSD PROJECT NO.: 20-9885

SEAL/SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE  
IN PREPARING THESE PLANS AND CHECKING  
THEM FOR ACCURACY, THE CONTRACTOR  
AND SUBCONTRACTORS MUST CHECK ALL  
DETAIL AND DIMENSIONS OF THEIR TRADE  
AND BE RESPONSIBLE FOR THE SAME.

SURVEYED BY: JFA 08-20-20  
DRAWN BY: RWI 08-31-20  
CHECKED BY: RKW 08-31-20

| PLAN MODIFICATIONS: | DATE: |
|---------------------|-------|
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**DIGGERS HOTLINE**  
Call 811 or (800) 242-8511  
Milwaukee Area (262) 432-7910  
Hearing Impaired TDD (800) 542-2289  
www.DiggersHotline.com

SHEET TITLE:  
**POND SWP23N004**

SHEET NUMBER:  
**P-4.0**