



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 | NE1/4 24-8-20 | Name of Business/Subdivision | Alta Mira Apartments |
| Property Tax ID Number | MNFV0093947 006 | Address of Property | W129N6889 Northfield Dr. |
| Date | 05/29/14 | | Menomonee Falls, WI 53015 |

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

Location of Pond: Southwest portion of site
 Lot 1 of CSM No. 9880

Pond ID: SWP24N006

| | | | |
|-----------------------|------|----------------------------|------|
| Year Pond Constructed | 2004 | Year of Last Certification | 2010 |
|-----------------------|------|----------------------------|------|

| Compliance Verification | Design | Actual | Compliant | | Comments (Condition of Structure) |
|--------------------------------|-----------------|---------|-----------|----|---|
| | | | Yes | No | |
| Primary Outlet Pipe | | | | | Outlet Pipe Material |
| Opening Diameter (inches) | 12" | 12" | | | Concrete HEAVY VEGETATION AND DEBRIS SURROUNDING |
| Upstream Invert | 790.00 | 789.91 | | | |
| Downstream Invert | 789.00 | 788.69 | | | |
| Length (feet) | 150.0' | 148.35' | | | |
| Slope (%) | 0.67% | 0.82% | | | |
| Secondary Outlet Pipe | | | | | Outlet Pipe Material |
| Opening Diameter (inches) | (If Applicable) | | | | |
| Upstream Invert | | | | | |
| Downstream Invert | | | | | |
| Length (feet) | | | | | |
| Slope (%) | | | | | |
| Riser | | | | | Riser Material |
| Opening Diameter (inches) | (If Applicable) | | | | |
| Elevation | | | | | |
| 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) | | | | | | |
| Elevation | | | | | | |
| Other (Description) | | | | | | |
| Opening Type and Size (inches) | 6" | 6" | | | Vertical orifice | |
| Elevation | 790.00 | 789.91 | | | | |
| Emergency Spillway | | | | | | |
| Elevation | 793.50 | 793.07 | | | | |
| Length of spillway (feet) | 20.0' | 19.5' | | | | |
| Embankment | Present Yes no | | Comments/Maintenance Requirements | | | |
| Unauthorized Plantings, trees, or woody vegetation | X | | TWO SMALL TREES GROWING IN POND SLOPE | | | |
| Animal burrows or slope erosion | | | | | | |
| Storm Sewer Outfalls | Type & Size | | Location | | Comments | |
| Outfall 1 | 12" RCP | | NW. COR. POND | | | |
| Outfall 2 | 6" PVC | | NE COR. POND | | | |
| Outfall 3 | | | | | | |
| Storage Properties | Design | Actual | Compliant Yes No | | Not Applicable | Equipment Used |
| Normal Water Elevation (Wet Ponds) | 790.00 | 789.91 | | | | TRIMBLE R6 GPS |
| Design High Water Elevation | 792.88 | 792.88 | | | | |
| Area at Normal Water Elevation (Ac) (Wet Ponds) | 0.163 | 0.115 | | | | |
| Area at Design High Water Elevation (Ac) | 0.353 | 0.293 | | | | |
| Active Storage Available (Ac-Ft)* | 1.44 | 1.657 | | | | |
| Lowest Elevation at Top of Embankment (If Applicable) | 793.50 | 793.17 | | | | |
| Average Elevation at Top of Embankment (If Applicable) | 794.50 | 795.5 | | | | |
| Maximum Bottom Elevation | 785.00 | 784.98 | | | | |
| Average Pond Bottom Elevation | 785.00 | 786.0 | | | | |
| Pond Bottom Area (Ac) | 0.0035 | 0.003 | | | | |
| Maximum Pond Depth | 5.0' | 4.9' | | | | |
| Average Pond Depth | 5.0' | 3.9' | | | | |
| Average Permanent Pool Depth (Wet Ponds) | 5.0' | 3.9' | | | | |

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

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

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

| | |
|---|---|
| <p>Sketch Outlet or Attach to Document</p> <p>See Attached</p> | <p>Place Photograph of Pond or Attach to Document See Attached</p> |
| | <p>Place Photograph of Pond or Attach to Document See Attached</p> |

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

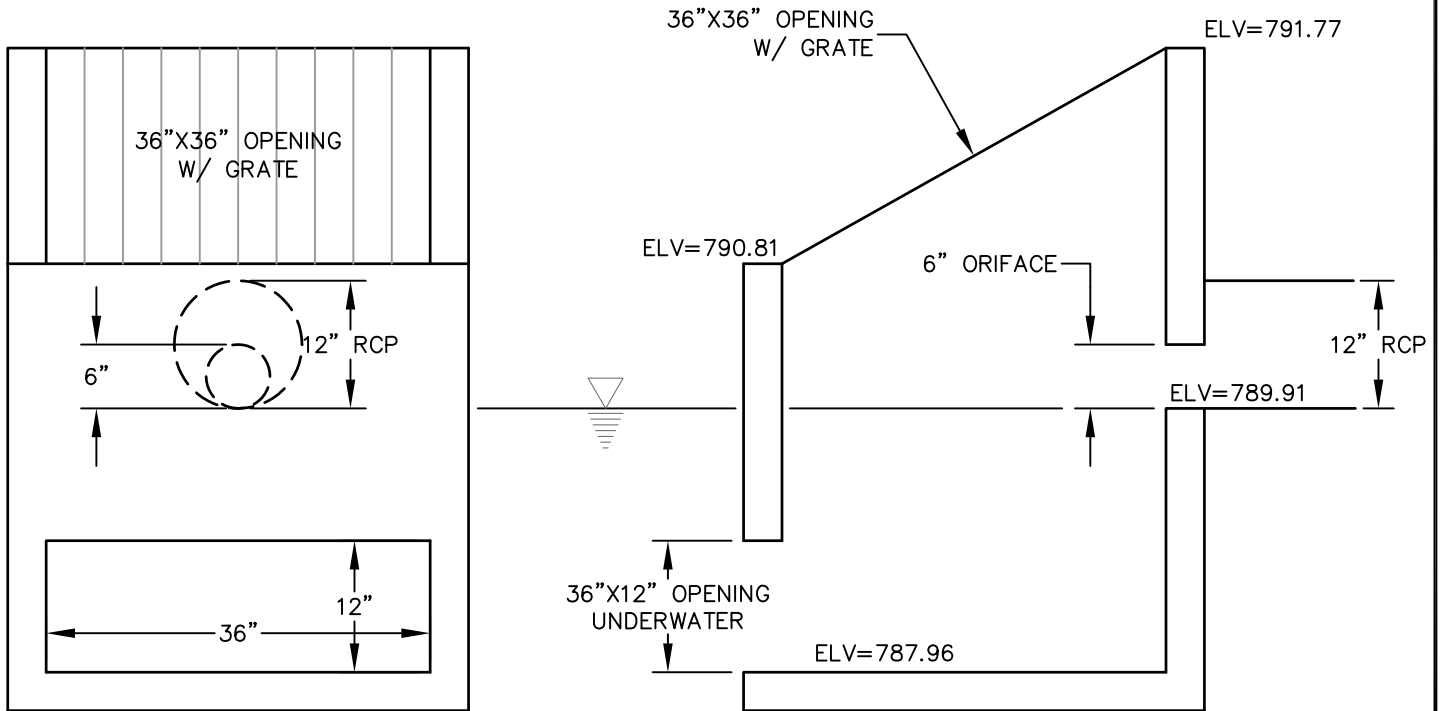
Inspection Firm: JSD Professional Services Inspector Name : Ryder Fischer
 Phone Number: 262.513.0666 Inspection Date: May 22, 2014
 Address: N22 W22931 Nancys Ct
 Suite 3
 Waukesha, WI 53186

Certifying Professional
 Name: Rizal W. Iskandarsjach R.L.S., P.E.
 Phone Number: 262.513.0666



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|-------------------------------|--|
| <p>Date: May 29, 2014</p> | <p>Signature: <i>Rizal Iskandarsjach</i></p> |
|-------------------------------|--|

Affix Seal Here



EXIST OUTLET DETAIL

N.T.S.

File: R:\2014\1406233 NorthHillsPonds\dwg\1406233 Pond Detail.dwg Layout: D-6

JSD Professional Services, Inc.
 Engineers • Surveyors • Planners
 MILWAUKEE REGIONAL OFFICE
 N22 W22931 NANCY'S COURT SUITE 3
 WAUKESHA, WISCONSIN 53186
 262.513.0666 PHONE | 262.513.1232 FAX
www.jsdinc.com

PROJECT:
**NORTHFIELD MANOR
 POND CERTIFICATION**
 VILLAGE OF MENOMONEE FALLS, WI

SHEET TITLE:
**SWP24N006
 POND OUTLET
 DETAIL**

JSD PROJECT NUMBER:
 14-6180
 DRAWN BY: APM CHECKED BY: RWI
 DATE:
 05-29-14

SHEET NUMBER:
D-6



Figure 1: At north portion of pond; looking southwesterly



Figure 2: At south portion of pond; looking northerly (two storm outfalls)



Figure 3: At southeast portion of pond; looking northerly (pond outlet structure)



Figure 4: At southeast portion of pond; looking southeasterly (emergency spillway)



Figure 5: At north portion of pond; looking northwesterly (storm outfall)