



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 _____ Name of Business/Subdivision Securant Bank (Formerly Milw. Western Bank)
Property Tax ID Number MNFV00139 Address of Property W178 N9358 Water Tower Place
Date 5/2/14

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

Location of Pond Northern Corner of Site at intersection of Water Tower Place and Appleton Avenue

Pond ID: SWP 04 N004

Year Pond Constructed 2005 Year of Last Certification 2010

| Compliance Verification | Design | Actual | Compliant Yes No | Comments (Condition of Structure) |
|--------------------------------|-----------------|--------|---------------------|---|
| Primary Outlet Pipe | | | | Outlet Pipe Material |
| Opening Diameter (inches) | 18 | 18 | X | Outlet pipe in good shape; note actual inverts based on survey conducted in June 2010 |
| Upstream Invert | 900.0 | 900.11 | X | |
| Downstream Invert | 900.0 | 900.1 | X | |
| Length (feet) | 20 | 21.6 | X | |
| Slope (%) | 0 | 0 | X | |
| Secondary Outlet Pipe | (If Applicable) | | | Outlet Pipe Material |
| Opening Diameter (inches) | NA | NA | | |
| Upstream Invert | NA | NA | | |
| Downstream Invert | NA | NA | | |
| Length (feet) | NA | NA | | |
| Slope (%) | NA | NA | | |
| Riser | (If Applicable) | | | Riser Material |
| Opening Diameter (inches) | NA | NA | | |
| Elevation | NA | NA | | |
| Upper Discharge Control | (If Applicable) | | | |
| Opening Diameter (inches) | NA | NA | X | Overflow weir and outlet controls not installed per design |
| Elevation | 903.2 | NA | X | |

| Compliance Verification | Design | Actual | Compliant Yes No | Comments | |
|--|-------------------|--------|--|----------------|---|
| Lower Discharge Control | (If Applicable) | | | | |
| Opening Diameter (inches) | 4 | NA | | X | Outlet controls not installed per design |
| Elevation | 900 | NA | | X | |
| Other (Description) | | | | | |
| Opening Type and Size (inches) | | | | | |
| Elevation | | | | | |
| Emergency Spillway | | | | | |
| Elevation | 903.2 | NA | | X | Overflow spillway not constructed at time of inspection; overflow spillway installed after inspection – see attached photos |
| Length of spillway (feet) | 5' | NA | | X | |
| Embankment | Present Yes no | | Comments/Maintenance Requirements | | |
| Unauthorized Plantings, trees, or woody vegetation | x | | Small tree growing from east berm sideslope; tree should be cut down; erosion and bare soil present along east berm sideslope especially by southeast corner of basin; slope should be stabilized w/ topsoil, matting and seed | | |
| Animal burrows or slope erosion | x | | | | |
| Storm Sewer Outfalls | Type & Size | | Location | | Comments |
| Outfall 1 | 10" PVC | | SW corner of basin | | Good condition |
| Outfall 2 | 18" HDPE | | South corner of basin | | Good condition |
| Outfall 3 | | | | | |
| Storage Properties | Design | Actual | Compliant Yes No | Not Applicable | Equipment Used |
| Normal Water Elevation (Wet Ponds) | | | | | |
| Design High Water Elevation | | | | | |
| Area at Normal Water Elevation (Ac) (Wet Ponds) | | | | | |
| Area at Design High Water Elevation (Ac) | | | | | |
| Active Storage Available (Ac-Ft)* | | | | | |
| Lowest Elevation at Top of Embankment (If Applicable) | | | | | |
| Average Elevation at Top of Embankment (If Applicable) | | | | | |
| Maximum Bottom Elevation | | | | | |
| Average Pond Bottom Elevation | | | | | |
| Pond Bottom Area (Ac) | | | | | |
| Maximum Pond Depth | | | | | |
| Average Pond Depth | | | | | |
| Average Permanent Pool Depth (Wet Ponds) | | | | | |

*To Determine Active Storage $V = H/3(A_1 + A_2 + (A_1 \times A_2)^{1/2})$

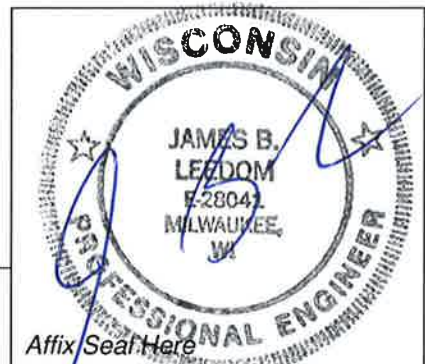
Wet Ponds Use H = Height of Section , A_1 = area at normal water elevation, A_2 =area at top section
Dry Ponds Use H = Height of Section, A_1 = pond bottom area, A_2 =area at top section

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

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

| | | | |
|------------------|------------------------------|------------------|------------------------------|
| Inspection Firm: | <u>The Sigma Group, Inc.</u> | Inspector Name : | <u>James B. Leedom, P.E.</u> |
| Phone Number: | <u>414-643-4200</u> | Inspection Date: | <u>5/2/14</u> |
| Address: | <u>1300 W. Canal Street</u> | | |
| | <u>Milwaukee, WI</u> | | |

Certifying Professional James B. Leedom, P.E.
Name:
Phone Number: 414-643-4200



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|-------------------------|----------------------------------|
| Date: <u>7/25/14</u> | Signature: <u>[Signature]</u> |
|-------------------------|----------------------------------|



Looking north across pond

05/02/2014 11:19

Erosion by SE corner of pond

05/02/2014 11:19





Erosion along east bank of pond

05/02/2014 11:23



Erosion along east bank of pond

05/02/2014 11:21



Looking south across pond

05/02/2014 11:22



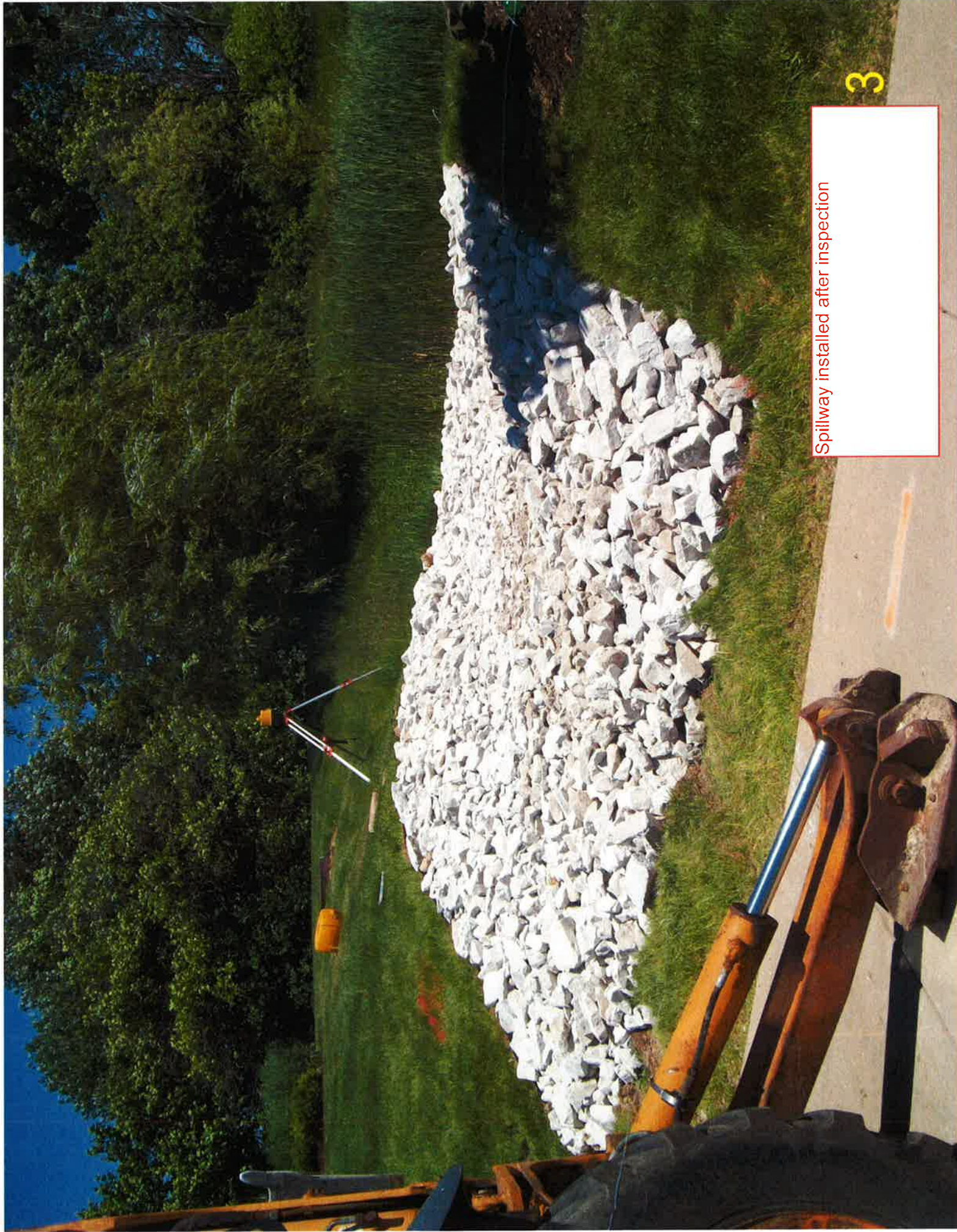
Outlet manhole - note no outlet control weir and orifices are installed.

05/02/2014 11:25



Emergency spillway being installed after inspection

2014/05/13



Spillway installed after inspection