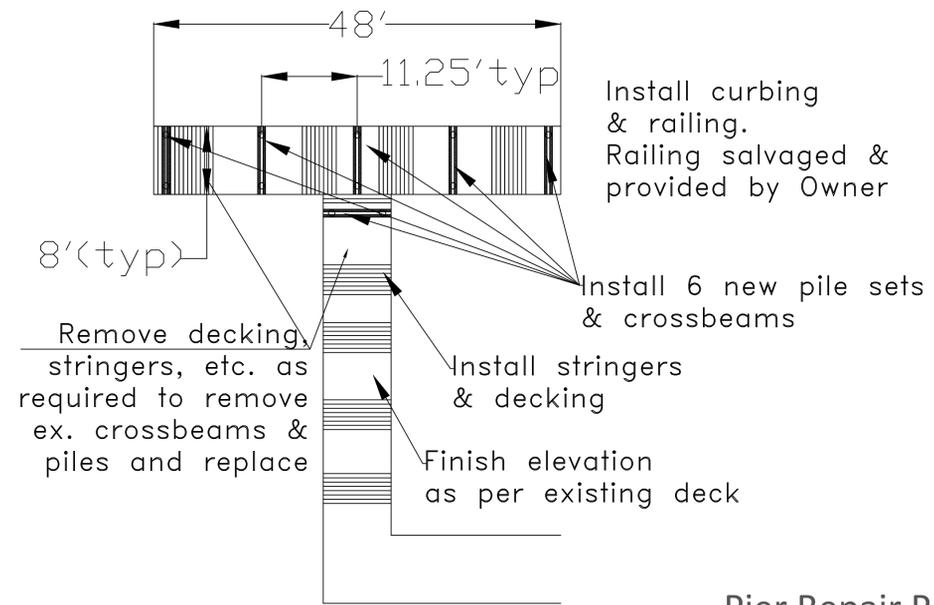
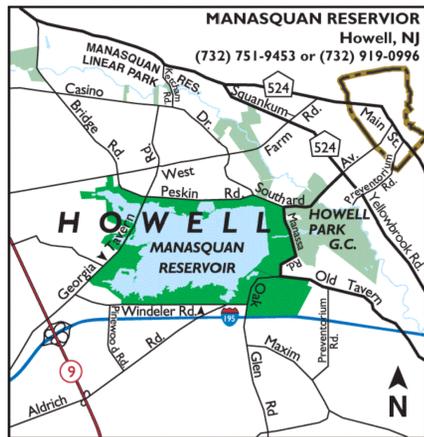




SITE LAYOUT



Pier Repair Plan  
scale 1 inch = 10 feet



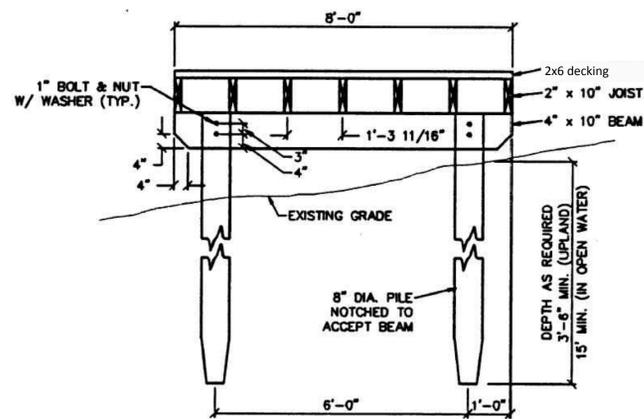
Location Plan

**General Construction Notes:**

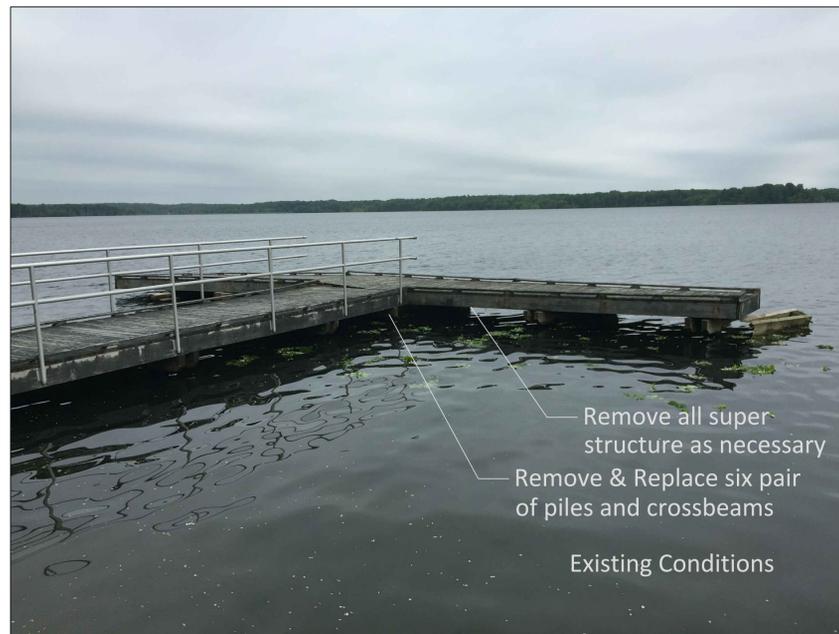
1. These drawings do not include the necessary components for construction safety. The Contractor shall be responsible to ensure "on the job" safety for his employees, the Owner's employees and the General Public having authorized or unauthorized access. The Contractor shall perform his work in a safe manner following all applicable regulations.
2. The Contractor shall be responsible for all lines, elevations and measurements, exercising precaution to verify all dimensions shown on plans.
3. The Contractor shall immediately notify the Designer should departures from the approved design become necessary due to circumstances which arise during construction.
4. The Contractor shall obtain all necessary permits and shall pay all fees including inspection fees and in general shall procure all required permits, licenses and inspections. Pay all charges and fees and give notices for and incidental to the work.
5. Items not specified but necessary for proper construction shall be furnished and installed by the Contractor the same as if specified.
6. There are no known utilities within the work areas. The Contractor is responsible for verifying in the field. For utility markout call 1-800-272-1000.

**Construction Notes:**

1. All screws shall be driven so heads are set flush with the surface of the lumber. All fasteners (screws, nails) to be type with Copper Azole shall be 316 Stainless Steel.
2. 2"x6" decking shall be fastened to the stringers using No.10dx3" Torx drive Stainless Steel deck screws using 3 screws at ends and butt joints and 2 screws at intermediate locations. All joints to be staggered. Provide 1/2" space between decking.
3. 2"x10" joists to be set at 15 11/16" O.C. and lap 12" min. at piles. Outside joists to connect flush utilizing splice plate. Attached overlapped stringers w/ 3/16" nails, nailed straight. Toe nail with 2-12d nails.
4. Approximate depth of water at end of pier is 10'. Piles shall be driven to minimum depth of 15'. Minimum length of pile shall be 30'.
5. Piles and cross beams shall be pressure treated, category type UC-5B, Chromated Copper Arsenate, CCA. Having a retention rate of 0.80 pcf.
6. All framing lumber not exposed to human contact including piles headers and stringers shall be pressure treated, category type UC-4B, Chromated Copper Arsenate, CCA. Having a retention rate of 0.60 pcf.
7. All framing lumber having potential human exposure including decking and all railing members shall be pressure treated, category UC-4B, type CA-B Copper Azole. Having a retention rate of 0.31 pcf.
8. All metal fasteners and hardware having contact with lumber pressure treated w/Copper Azole shall be type 316 Stainless Steel. Hardware having contact with lumber pressure treated w/Chromated Copper Arsenate may be Hot Dipped Galvanized.



Pier Section



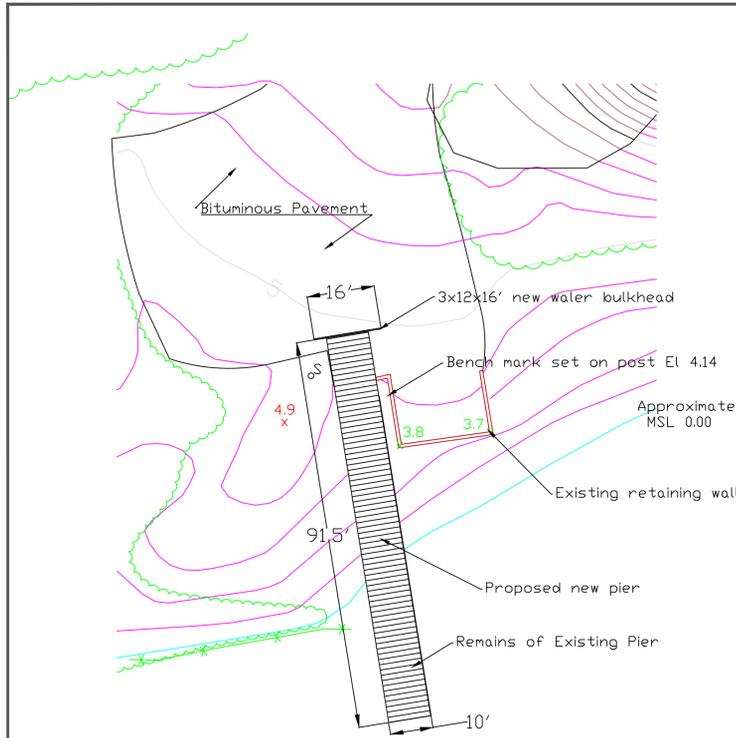
REVISION	DATE	CHECKED BY
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MONMOUTH COUNTY PARK SYSTEM  
BOARD OF PARK AND RECREATION COMMISSIONERS  
805 NEWMAN SPRINGS ROAD  
LINDROFT, NEW JERSEY 07738-1965  
PHONE (732) 842-4000 FAX (732) 842-3640

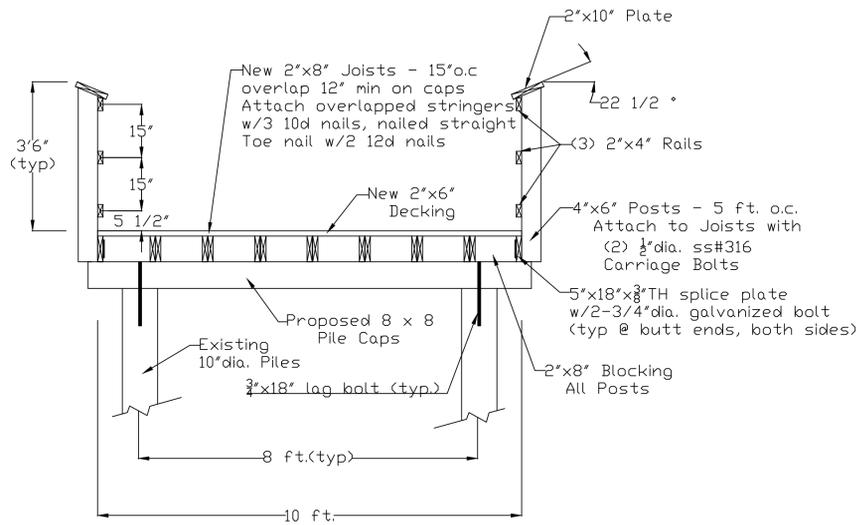


Fishing Pier Repair  
Manasquan Reservoir  
Winderler Road, Howell, NJ

DATE	SCALE	PROJECT #	DRAWN	CHECKED
6/12/2015	AS SHOWN		JVS	



**Pier Layout**  
1 inch = 20 feet



**Pier Section**  
1/2 inch = 1 foot



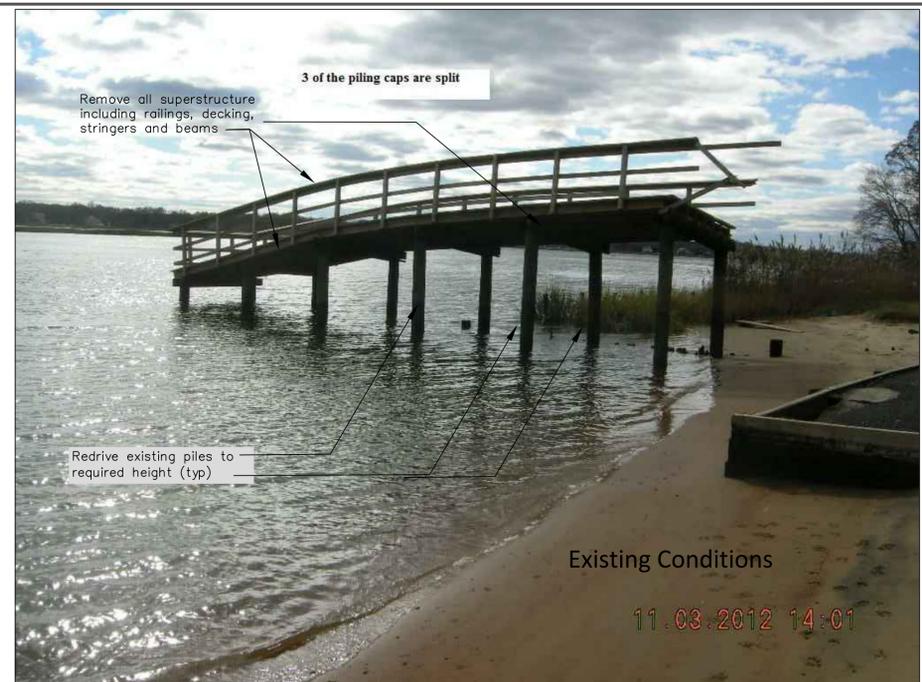
Location Plan

**General Construction Notes:**

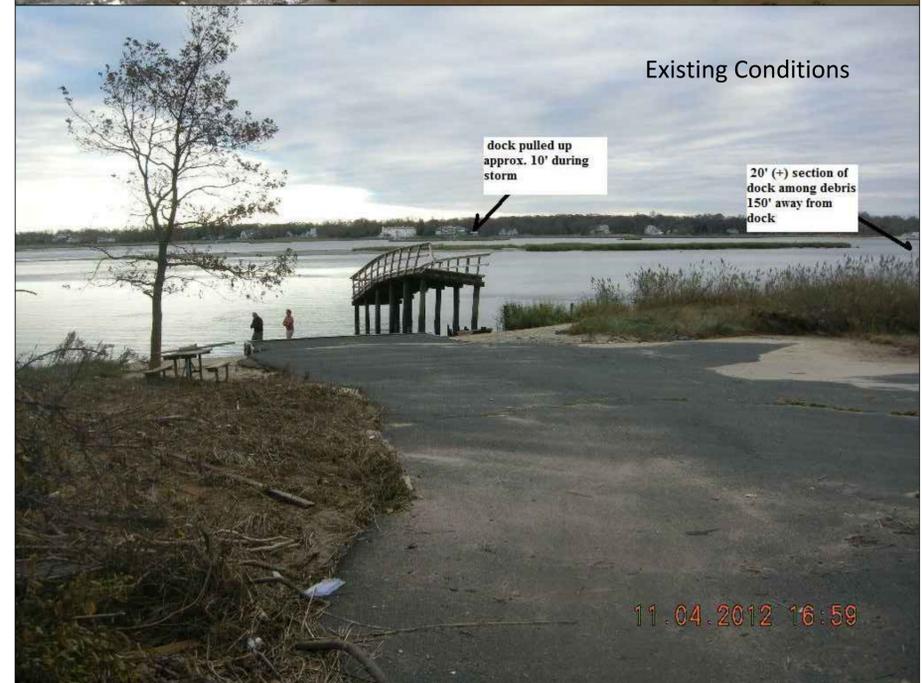
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**Construction Notes:**

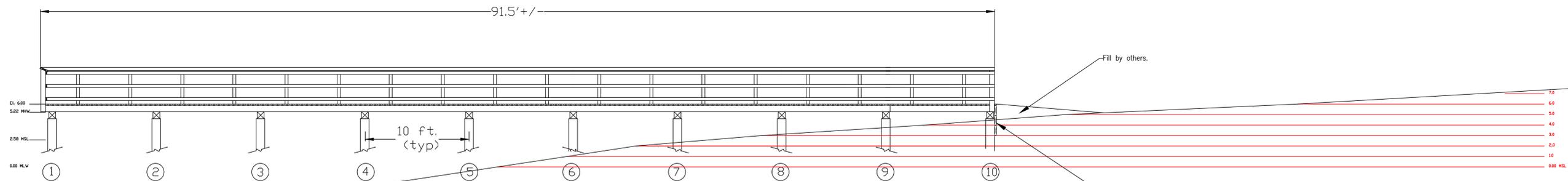
1. All screws shall be driven so heads are set flush with the surface of the lumber. All fasteners (screws, nails) to be type with Copper Azole shall be 316 Stainless Steel.
2. 2"x6" decking shall be fastened to the stringers using No.10dx3" Torx drive Stainless Steel deck screws using 3 screws at ends and butt joints and 2 screws at intermediate locations. All joints to be staggered. Provide 1/2" space between decking.
3. Railings and caps to be fastened to posts using No.10dx3" Torx drive Stainless Steel deck screws.
4. 2"x8" joists to be set at 15" O.C. and lap 12" min. at piles. Outside joists to connect flush utilizing splice plate.
5. All framing lumber exposed to potential salt water immersion including piles and cross beams shall be pressure treated, category type UC-5B, Chromated Copper Arsenate, CCA. Having a retention rate of 2.50 pcf.
6. All framing lumber not exposed to human contact including headers and stringers shall be pressure treated, category type UC-4B, Chromated Copper Arsenate, CCA. Having a retention rate of 0.60 pcf.
7. All framing lumber having potential human exposure including decking and all railing members shall be pressure treated, category UC-4B, type CA-B Copper Azole. Having a retention rate of 0.31 pcf.
8. All metal fasteners and hardware having contact with lumber pressure treated w/Copper Azole shall be type 316 Stainless Steel. Hardware having contact with lumber pressure treated w/Chromated Copper Arsenate may be Hot Dipped Galvanized.



Existing Conditions



Existing Conditions



Pile sets 1 thru 6 existing need to be reset. Remove all remaining railing, decking, stringers and pile bents. reset piles and rebuild as per plans and specifications

Pile sets 7 thru 10 are new. Piles shall be a minimum of 10' long.

**Pier Elevation**  
1 inch = 5 feet

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Reconstruction of Rocky Point Pier  
Hartshorne Wood Park  
Middletown

REVISION DATE CHECKED BY

Joseph V. Sordania LLA AS 0561

CHECKED

JVS

DRAWN

PROJECT #

SCALE As Noted

DATE 6/12/2015