



# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District  
Jacob K. Javits Federal Building  
New York, N.Y. 10278-0090  
ATTN: Regulatory Branch

**In reply refer to:**  
Public Notice Number: NAN-2015-00962-EHA  
Issue Date: August 3, 2017  
Expiration Date: September 5, 2017

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

**APPLICANT:** RXR Glen Isle Partners LLC  
c/o Frank Haftel  
625 RXR Plaza  
Uniondale, New York 11556

**ACTIVITY:** Dredging with ten-years maintenance, bulkhead construction, open cell steel bulkhead wall construction, marina construction, placement of fill material, and wetland plantings

**WATERWAY:** Glen Cove Creek, tributary of Hempstead Harbor

**LOCATION:** City of Glen Cove, Nassau County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE,** otherwise, it will be presumed that there are no objections to the activity. Comments provided will

become a part of the public record for this action.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program

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concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8523 and ask for Naomi Handell.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

*R. A. Ryba*  
**For and In behalf of**

Stephan A. Ryba  
Chief, Regulatory Branch

Enclosures

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**WORK DESCRIPTION**

The applicant, RXR Glen Isle Partners LLC, has requested Department of the Army authorization for dredging with ten-years maintenance, bulkhead construction, open cell steel bulkhead wall construction, marina construction, placement of fill material, and wetland plantings in Glen Cove Creek and Hempstead Bay, City of Glen Cove, Nassau County, New York.

The work would involve:

**Garvies Point Beach**

Construct 896 linear feet of composite bulkhead within 18-inches of existing steel bulkhead, with a 35-foot northern bulkhead return and an approximately 24-foot southern bulkhead return, resulting in the placement of approximately 1,045 cubic yards of clean, upland fill waterward of the Spring High Water Line (SHWL). Install one (1) 36-inch diameter storm water outfall with a 20-foot long by 23-foot wide rip-rap apron with placement of approximately 16 cubic yards of stone waterward of the SHWL. See Sheets A-100 through A-101 and G-006.

**Captains Cove**

Slope Restoration-In a 4,500 square foot area between the top of the slope and the landward tidal wetland boundary, remove 1,410 cubic yards of material to plant vegetation. See Sheets A-102 through A-103 and A-201.

Construct a pier for ecological use (See Sheet A-104 and A-111) in an irregular shape measuring approximately 100-foot by 7-foot wide along the existing Regina Maris, with four sides measuring approximately 75-foot long by 6-foot wide, 40-foot long by 15-foot wide, 44-foot long by 6-foot wide and 44-foot long by 6-foot wide. East of ecological pier and perpendicular to the shoreline, install a 109-foot long by 2-foot wide low sill wall with a navigation beacon at the seaward terminus.

**Small Vessel Marina**

Construct approximately 458 linear feet of steel bulkhead within 18-inches of existing steel bulkhead resulting in the placement of approximately 554 cubic yards of clean, upland fill waterward of the SHWL (See Sheet A-110). Install one (1) 30-inch diameter storm water outfall with a 15-foot long by 17.5-foot wide rip-rap apron with placement of approximately 8 cubic yards of stone waterward of the SHWL (See Sheet G-006).

Dredge approximately 8,300 cubic yards of sediment comprised of 85% sand and 15% silt-clay to a depth of 7 feet below Mean Low Water (MLW) from an approximately 36,000 square foot area with no barge overflow and no return flow to the waterway. Place the dredged material at a state-approved upland location. Cap the dredged area with 4-inches of gravel and 8-inches of clean, upland sand resulting in the placement of 442 cubic yards of gravel fill and 884 cubic yards of sand fill. Total fill volume would be 1,326 cubic yards. The proposed dredging area includes approximately 8,000 square feet of vegetated wetlands to be converted to open water (See Sheet A-204).

Install 321-foot long by 8-foot wide main float accessed by a 56-foot long by 3-foot wide ramp on the western end and by a 56-foot long by 3-foot wide ramp on the eastern end of the proposed marina. At the western end of the marina, perpendicular to the main float, install a 109-foot long by 5-foot wide timber floating dock structure with five (5) 27-foot long by 4-foot wide finger floats, at the terminus of this float, install a 77-foot long by 5-foot wide floating dock structure with an irregular shape at the eastern end. Continuing east, install two (2) 68-foot long by 5-foot wide timber floating

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dock structures, each terminating with two (2) 31-foot long by 5-foot wide timber floating dock structures in a "T" formation, each with six (6) 31-foot long by 4-foot wide finger floats, then one 50-foot long by 5-foot wide timber floating dock structure with three (3) 31-foot long by 4-foot wide finger floats. Total number of proposed slips-25. See Sheet A-104, A-203 and A-204.

**Angler's Club**

Install one (1) 18-inch diameter storm water outfall with a 10-foot long by 11.5-foot wide rip-rap apron, with placement of approximately 3.0 cubic yards of fill waterward of the spring high water line (See Sheet G-006).

Remove existing structures.

Dredge approximately 2,368 cubic yards of sediment comprised of 66% sand and 34% silt-clay to a depth of 7 feet below MLW from a 16,000 square foot area, with no barge overflow and no return flow to the waterway. Place the dredged material at a state-approved upland location. Cap the dredged area with 4-inches of gravel and 8-inches of clean, upland sand with the placement of 197 cubic yards of gravel fill and 394 cubic yards of sand fill. Total fill volume would be 591 cubic yards.

Install a 444-foot long by 8-foot wide main float accessed by a 56-foot long by 3-foot wide ramp located at the eastern end of the marina. Perpendicular to the main float, install twenty (20) 20-foot long by 3-foot wide finger piers. Total number of proposed slips-38. See Sheet A-106.

**Low Sill Bulkhead**

Install one (1) 36-inch diameter storm water outfall with a 18-foot long by 21-foot wide rip-rap apron resulting in the placement of 15 cubic yards of fill waterward of the spring high water line (See Sheet G-006).

Install a 470 linear foot low-sill bulkhead within 18-inches of existing bulkhead, resulting in the placement of 315 cubic yards of clean upland fill, cut existing bulkhead 1-foot below top elevation of low-sill bulkhead (See Sheet A-206). Low-sill bulkhead to be constructed at elevation 0.0-feet NAVD (mid-tide level).

At eastern end of low sill bulkhead, install a 75-foot long bulkhead return.

To create wetlands, excavate approximately 7,000 cubic yards of upland material over an approximately 21,000 square foot area. Place excavated material at a state approved upland location. Cap the excavated area with 4-inches of gravel and 8-inches of clean, upland sand resulting in the placement of 265 cubic yards of gravel fill and 529 cubic yards of sand fill. Plant the excavated area with wetland vegetation. See Sheet A-107 and A-206.

**Transient Marina**

Install one (1) 30-inch diameter storm water outfall.

Maintenance dredge approximately 1,067 cubic yards of sediment comprised of 77% sand and 23% silt-clay to a depth of 7 feet below MLW from a 7,200 square foot area with no barge overflow and no return flow to the waterway. Place the dredged material at a state-approved upland location. Cap the dredged area with 4-inches of gravel and with 8-inches of clean, upland sand resulting in the placement of 89 cubic yards of gravel fill and 178 cubic yards of sand fill. Total fill volume would be 267 cubic yards.

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Install a 460-foot long by 8-foot wide main float accessed by four (4) 56-foot long by 3-foot wide ramps at the western and eastern marina boundaries. Perpendicular to the main float, install six (6) 77-foot long by 6-foot wide floating dock structures. The western and easternmost floats would terminate in an "L" formation, the three middle floats would terminate in a "T" formation. Attached to the floats, install twenty (20) 20-foot long by 2.5-foot wide finger floats, twenty-four (24) 18-foot long by 2.5-foot wide finger floats, and twelve (12) 15-foot long by 2.5-foot wide finger floats. Total number of proposed slips-56. See Sheet A-108.

**Open Cell Steel Bulkhead Wall**

From just west of the Angler's Club Marina to just east of the Transient Marina, construct an approximately 2,109 linear foot open cell steel bulkhead wall. The majority of the wall would be constructed landward of the spring high water line except for approximately 70 linear feet (180 square feet), which would be constructed waterward of the spring high water line (See Sheets A-105 and A-106). After construction, the area waterward of the new open cell steel bulkhead wall would be excavated to create jurisdictional areas of open water and/or vegetated wetlands. See Sheets A-105 through A-108.

**Ten-Year Maintenance Dredging**

Up to two (2) additional dredging events throughout the entire site may occur over ten years. Up to 3,000 cubic yards of material would be removed during each dredging event with no return flow to the waterway. The dredged material would be placed at a state approved upland site. Any dredging events would be required to maintain the proposed clean sand/gravel cap.

Total existing over water coverage: 2,100 square feet

Total proposed over water coverage: 18,800 square feet

Total existing marina slips in Glen Cove Creek: 735

Total proposed marina slips in Glen Cove Creek: 815

Mitigation statement: To avoid adverse impacts to the aquatic environment, no dredging would occur from February 1 to October 30 of any calendar year. As compensatory mitigation for the loss of approximately 8,000 square feet of wetlands in the proposed Small Vessel Marina, approximately 21,000 square feet of wetlands is proposed in the Low-Sill Bulkhead area.

The stated purpose of the project is to stabilize the shoreline and construct marinas as part of a proposed waterfront redevelopment.

PHASE I (current application) – GARMIES POINT BEACH THROUGH TRANSIENT MARINA  
 PHASE II (future application) – UPPER REACH OF GLEN COVE CREEK

Landward limit of tidal wetland jurisdiction under Article 25 of the ECL was confirmed by NYSDEC in their 6/11/2010 letter. A map of NYSDEC Art. 25 (Tidal Wetlands) Jurisdictional Limits can be found in Appendix N of the FEIS.

- Total Length of Bulkhead Reconstruction =  
 i. Seaward of Existing (Within 18") - 1,845 ft  
 ii. In Place of Existing - 125 ft  
 iii. Landward of Existing - 1,665 ft

(3) 100'x100' DRY STAGING AREAS WITH 2 FT BERM AND SILT FENCE. FINAL LOCATION AND SIZE TO BE DETERMINED BY EWP.

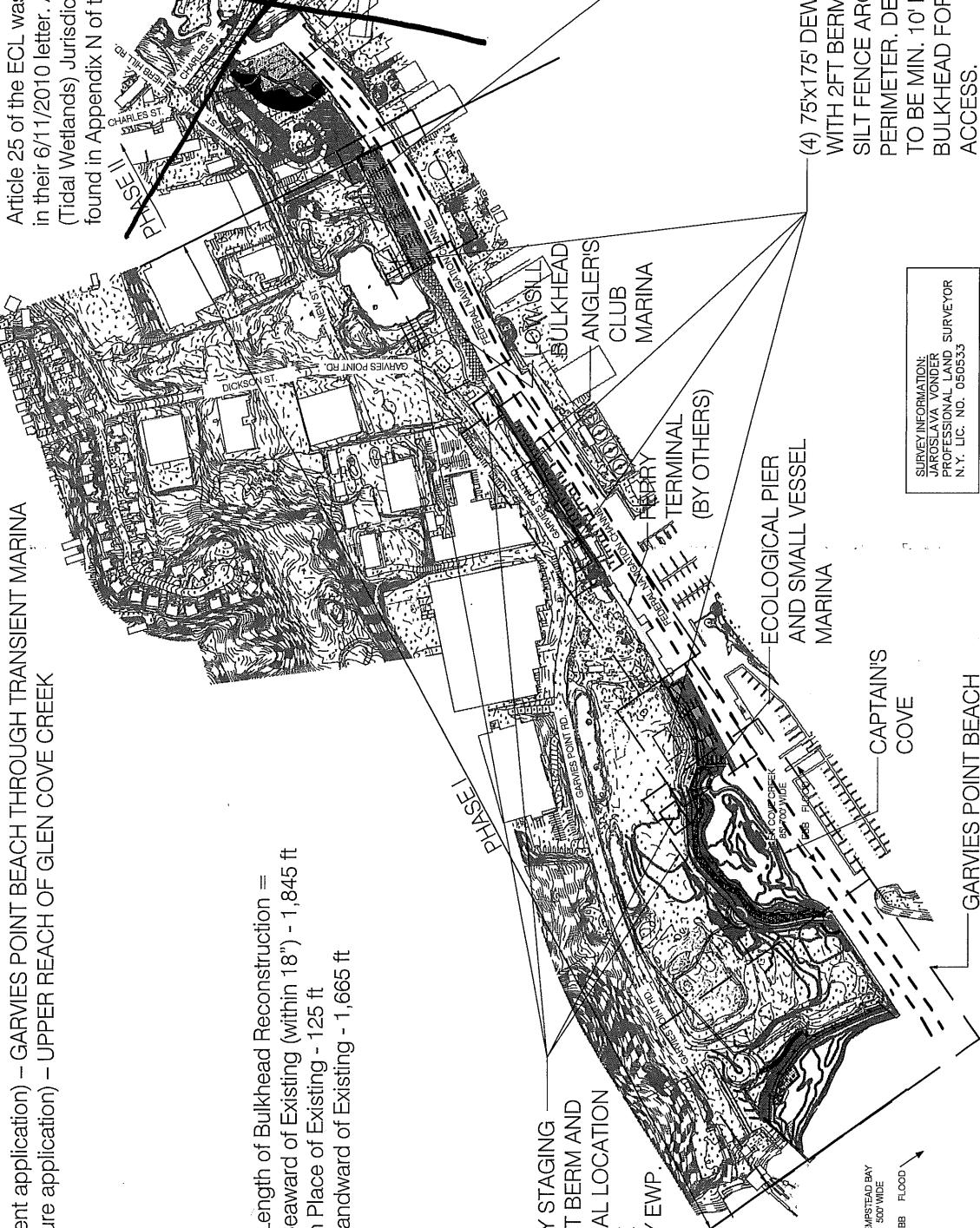
*Not Indicated*

UPPER REACH OF GLEN COVE CREEK

TRANSIENT MARINA

(4) 75'x175' DEWATERING AREA'S WITH 2FT BERM, HAYBALES AND SILT FENCE AROUND PERIMETER. DEWATERING AREA TO BE MIN. 10' LANDWARD OF BULKHEAD FOR EXCAVATOR ACCESS.

SURVEY INFORMATION:  
 JAROSLAVA VONDER  
 PROFESSIONAL LAND SURVEYOR  
 N.Y. LIC. NO. 050533



1 SITE PLAN - PROPOSED REDEVELOPMENT

1" = 600'

**AAC**  
 ADVANCED AMERICAN ENGINEERING  
 445 BROOKHOLLOW ROAD, SUITE 25  
 MELVILLE, NEW YORK 11747  
 PHONE - 631-730-5537

GLEN ISLE CREEK WATERFRONT REDEVELOPMENT PROJECT  
 RXR GLEN ISLE PARTNERS LLC  
 WATER FRONT PERMITTING PLANS  
 CITY OF GLEN COVE  
 NASSAU COUNTY, NEW YORK

**G-000**

SHEET NUMBER  
**G-000**

SUBMITTALS		
REV	DATE	DESCRIPTION
C	01/17/17	PERMIT PLANS
D	02/05/17	PERMIT PLANS
E	02/13/17	PERMIT PLANS
F	03/01/17	PERMIT PLANS
G	03/02/17	PERMIT PLANS
H	05/22/17	PERMIT PLANS
I	07/18/17	USAGE COMMENTS

SHEET 1 OF 50

Glen Cove Creek Waterfront Redevelopment Project  
In-Water Structures Table

Location	Structure Type	Quantity	Dimensions (to nearest foot)	Method of Installation	Duration of Installation
Ecological Pier	Concrete Column	8	18" Diameter	Pured in place with form.	3 days
	Helical Pipe Pile	8	6" pipe x 40'- 40 T	Long reach crane and small work float.	1 day
	Timber Pile	50	12" D x 40' L	Long reach crane or barge crane jetted in.	2 weeks
	Main Floating Dock	1	321' L x 8' W	Prefabricated / assemble at site and install using land-based equipment (crane).	2 weeks
	Ramp	2	56' L x 3' W		
	Float Dock 1	1	96' L x 5' W		
	South Float Dock	1	77' L x 5' W (irreg.)	Placed using land-based equipment (crane).	
	Float Dock 2	2	68' L x 5' W		
	Float Dock 3	1	50' L x 5' W		
	South Float Dock 2	4	31' L x 5' W		
Small Vessel Marina	Finger Pier 1	15	31' L x 4' W		
	Finger Pier 2	5	27' L x 4' W		
	Timber Pile	72	12" D x 40' L	Long reach crane / small work float / jetted in.	2 weeks
	Main Floating Dock	1	444' L x 8' W	Prefabricated / assemble at site and install using land-based equipment (crane).	2 weeks
	Ramp	1	56' L x 3' W	Placed using land-based equipment (crane).	
	Finger Pier	20	25' L x 4' W	Barge crane / jetted	2 weeks
	Timber Pile	81	12" D x 40' L	Prefabricated / assemble at site and install using land-based equipment (crane).	2 weeks
	Main Floating Dock	1	460' L x 8' W		
	Ramp	4	56' L x 3' W		
	Float Dock	6	77' L x 6' W	Placed using land-based equipment (crane).	2 weeks
Transient Marina	Finger Pier 1	20	20' L x 2.5' W		
	Finger Pier 2	24	18' L x 2.5' W		
	Finger Pier 3	12	15' L x 2.5' W		

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**NOTES:**

1. EXCEPT IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MHW) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC. MEAN HIGH TIDE LEVEL IS EQUIVALENT TO MEAN HIGH WATER. IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
2. EXISTING OVER WATER COVERAGE BY STRUCTURES IS 2,400 SQ. FT. (ANGLER'S CLUB), PROPOSED OVER WATER COVERAGE BY STRUCTURES IS 18,800 SF. (ECOLOGY PIER, SMALL VESSEL MARINA, ANGLER'S CLUB, TRANSIENT MARINA), PROPOSED OVER WATER ENCROACHMENT OF BULKHEAD TO BE CONSTRUCTED WITHIN 18' IS 2,768 SF.
3. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.
4. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
5. LANDWARD LIMIT OF TIDAL WETLAND JURISDICTION UNDER ARTICLE 25 OF THE ECL WAS CONFIRMED BY NYSDC IN THEIR 6/11/2010 LETTER. A MAP OF NYSDC ART. 25 (TIDAL WETLANDS) JURISDICTIONAL LIMITS CAN BE FOUND IN APPENDIX N OF THE FEIS
6. SPRING HIGH WATER LINE (SHW) AT ELEVATION 4.9' NAVD
7. MEAN HIGH WATER LINE (MHW) AT ELEVATION 3.3' NAVD
8. MEAN LOW WATER LINE (MLW) AT ELEVATION -3.9' NAVD
9. ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9.9' NAVD, AND OVERRIDGE DEPTH OF 1' RESULTS IN A TOTAL DREDGE DEPTH OF -10.9' NAVD.
10. PLEASE REFER TO THE DREDGING AND EXCAVATION WORK PLAN PREPARED FOR THE GLEN COVE CREEK MIXED-USE WATERFRONT REDEVELOPMENT PROJECT FOR INFORMATION ON CONSTRUCTION METHODOLOGY, SEQUENCING, MATERIAL HANDLING AND DISPOSAL, AND CONSTRUCTION MONITORING.
11. MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.
12. TOTAL LENGTH OF BULKHEAD RECONSTRUCTION
  - 12.1. SEAWARD OF EXISTING (WITHIN 18') - 1,845 FT
  - 12.2. IN PLACE OF EXISTING - 125 FT
  - 12.3. LANDWARD OF EXISTING - 1,665 FT
13. ALL EXCAVATION AND DREDGE SOILS SHALL BE DISPOSED OF AT AN APPROVED FACILITY LANDWARD OF ARTICLE 25 (JURISDICTION, DISPOSAL LOCATION(S) TO BE SPECIFIED IN THE DREDGING & EXCAVATION WORK PLAN AND APPROPRIATE SITE MANAGEMENT AND EXCAVATION WORK PLANS).
14. AS DEFINED BY THE CAPTAIN'S COVE, GLADSKY, DOXEY AND LI TUNGSTEN SITE MANAGEMENT PLANS AND EASEMENTS, THE LANDS BELOW WATER ARE DEFINED AS BELOW THE MEAN HIGH TIDE LEVEL. ALL UPLAND AREAS ARE SUBJECT TO THE REQUIREMENTS OF THEIR RESPECTIVE SITE MANAGEMENT PLAN. MEAN HIGH TIDE LEVEL IS EQUIVALENT TO MEAN HIGH WATER USED IN NATURAL RESOURCES APPLICATION DOCUMENTS.
15. EXCAVATION OF UPLAND SOILS TO FOLLOW THE DREDGING STOCKPILES WILL FOLLOW THE DEWATERING PROCEDURES APPROVED BY DEC UNDER THE FLUIDS MANAGEMENT SECTION OF THE EWP.
16. ANY WATER ACCUMULATED ON PARCELS AS A RESULT OF THE DREDGING STOCKPILES WILL FOLLOW THE DEWATERING PROCEDURES APPROVED BY DEC UNDER THE FLUIDS MANAGEMENT SECTION OF THE EWP.

**REFERENCES:**

1. BOUNDARY INFORMATION AS PER PLAN ENTITLED "ALTA/ACSM LAND TITLE SURVEY" FOR GLEN ISLE - GLEN COVE WATERFRONT REDEVELOPMENT, CITY OF GLEN COVE, NASSAU COUNTY, NEW YORK PREPARED BY PAULUS SOKOLOWSKI & SARTOR, PC, DATED 9/27/2012. HORIZONTAL DATUM IS NORTH N.Y.S.P.C.S.
2. TOPOGRAPHIC AND EXISTING CONDITION INFORMATION AS PER AERIAL PHOTOGRAPHY PREPARED BY ALTA'S AERIAL SURVEY CO., INC., DATED 3/23/2012. HORIZONTAL DATUM IS NAD 83/07. VERTICAL DATUM IS NAVD 88.
3. PARTIAL SURVEY OF EXISTING FERRY PARCEL PREPARED BY PAULUS SOKOLOWSKI & SARTOR, PC, PER FIELD SURVEY OF SEPTEMBER 2012. STORMWATER MANAGEMENT TO BE PERFORMED IN ACCORDANCE WITH THE SWPPP PREPARED BY PS&S AND APPROVED BY THE CITY OF GLEN COVE FOR THIS PROJECT; AND IN ACCORDANCE WITH THE SWPPP APPROVED BY THE CITY OF GLEN COVE FOR THE GARNIES POINT ROAD PROJECT. SWPPP'S PROVIDE FOR TREATMENT OF RUNOFF PRIOR TO DISCHARGE INTO GLEN COVE CREEK. NO STORMWATER SHALL INFILTRATE OR MIX WITH GROUNDWATER AT ANY TIME.

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12.2.	IN PLACE OF EXISTING - 125 FT	G-002	NOTES
12.3.	LANDWARD OF EXISTING - 1,665 FT	G-003	NOTES
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25.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-108	GARVIES POINT BEACH SECTION
26.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-109	GARVIES POINT BEACH SECTION
27.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-110	INSET PLANS
28.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-111	TRANSIENT MARINA SECTION
29.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-112	TRANSIENT MARINA SECTION
30.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-200	GARVIES POINT BEACH AND CAPTAIN'S COVE SECTIONS
31.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-201	GARVIES POINT BEACH AND CAPTAIN'S COVE SECTIONS
32.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-202	GARVIES POINT BEACH AND CAPTAIN'S COVE SECTIONS
33.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-203	ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTIONS
34.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-204	ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTIONS
35.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-205	ANGLER'S CLUB MARINA SECTION
36.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-206	LOW SILL BULKHEAD
37.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-207	TRANSIENT MARINA SECTIONS
38.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-208	LOW SILL CONNECTION TO OPEN CELL WALL DETAIL
39.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-209	STEEL BULKHEAD WEST OF FERRY RECONSTRUCTION DETAILS
40.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-300	STEEL BULKHEAD WEST OF FERRY RECONSTRUCTION DETAILS
41.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-301	OUTFALL DETAIL - STEEL BULKHEAD
42.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-302	OUTFALL DETAIL - STEEL BULKHEAD
43.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-303	TYPICAL PROPOSED FLOATING DOCK PERPENDICULAR CONNECTION JOINT
44.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-304	FLOATING DOCK PERPENDICULAR CONNECTION JOINT
45.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-305	OPEN CELL STEEL BULKHEAD DATA
46.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-306	OPEN CELL STEEL BULKHEAD ELEVATION & CROSS SECTION (ANGLER'S CLUB, LOW-SILL WETLANDS, TRANSIENT MARINA)
47.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-307	OUTFALL ELEVATION - OPEN CELL STEEL BULKHEAD
48.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-308	OUTFALL ELEVATION - OPEN CELL STEEL BULKHEAD
49.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-309	OUTFALL DETAIL - OPEN CELL STEEL BULKHEAD SECTION CONCRETE CAP DETAILS
50.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	A-310	THREE-PIPE CHECK VALVE OPTIONS
51.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	E-101	JEFFERSON WEIR HOLES
52.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	E-102	UTILITY DESIGN
53.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	R-100-104	NOT USED
54.	MAINTENANCE DREDGING TO BE PERFORMED PERIODICALLY AS NEEDED IN ALL MARINA AREAS, AND MUST FOLLOW THE DREDGING & EXCAVATION WORK PLAN.	R-105-109	REMOVAL PLANS

SUBMITTALS		REV	DATE	DESCRIPTION	BY	SHEET NUMBER
		C	01/17/17	PERMIT PLANS	JAN	G-001
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		I	07/18/17	USAGE COMMENTS	JUN	

**GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK NAN-2015-00962-EHA**

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**G-001**  
**243**

## PLANTING SPECIFICATIONS - WETLAND & SHORELINE RESTORATION AREAS

Planting Specifications for the wetland and shoreline restoration areas at Captain's Cove, Renaissance Park, Garvies Point Beach and the Upper Reach of Glen Cove Creek are provided below.

### Plant Species and Size

*Upland Shrubs* (3'-4' in height, 2 gallon containers on 12' radial centers): 241 plants

Northern Bayberry    *Morella pensylvanica*  
Groundsel Bush    *Baccharis halimifolia*  
Beach Plum        *Prunus maritima*

*Upland Herbaceous Plants* (2" plugs on 18" radial centers): 14,303 plants

Switch Grass      *Panicum virgatum*  
Seaside Goldenrod    *Solidago sempervirens*  
Butterfly Milkweed    *Asclepias tuberosa*  
Smooth Aster        *Aster laevis*

*High Marsh Plants* (2" plugs on 18" radial centers): 2,767 plants

Salt Hay            *Spartina patens*  
Spike Grass        *Distichlis spicata*

*Low Marsh Plants* (2" plugs on 18" radial centers): 19,092 plants

Smooth Cordgrass    *Spartina alterniflora*

### Planting Windows

Low Marsh Sod Transplanting: March 1 to June 30

Low Marsh, High Marsh, and Upland Slope Plugs: Spring Season April 15 to June 15

Upland Slope Shrubs: April 1 to May 15

### Elevation Requirements

Upland Slope Plants: > 5.0'  
High Marsh Plants:    3.3 - 5.0'  
Low Marsh Plants:    0.0 - 3.3'

### Planting Methods and Specifications

#### Site Preparation

Planting substrates shall be free from debris, noxious weeds, toxic substances or other materials harmful to plant growth. Prior to commencement of planting operations, the Contractor shall complete a Soils Test in accordance with ASTM D 5268 and ASTM D 4972 to determine the pH, organic matter, soluble salt, and nutrient contents, as well as soil texture, of the planting substrates. Separate sample collections shall occur for each planting area, and be random over the separate areas.

Prior to the commencement of the planting operations, the Contractor shall verify that finished grades are as indicated on the plans, and the finishing and compaction requirements have been completed in accordance with design specifications. After grading is complete, heavy equipment is prohibited from entering planting areas.



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NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

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C	01/17/17			PERMIT PLANS	JAY	G-002
D	02/08/17			PERMIT PLANS	JAY	
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F	03/01/17			PERMIT PLANS	NIT	
G	03/02/17			PERMIT PLANS	NIT	
H	05/22/17			PERMIT PLANS	NIT	
I	07/18/17			USAGE COMMENTS	NIT	

#### *Herbivory Fence*

Herbivory Fence shall be installed after final grades in the marsh areas and upland slope planting areas are completed. Herbivory Fence shall be installed prior to or concurrently with installation of the low and high marsh and upland slope plants. Under no circumstances are these plants to be planted outside the containment of a satisfactorily installed Herbivory Fence.

Fence Materials shall be as follows:

Herbivory Fence shall be made of the following materials:

Wood Stakes on 10' centers: Untreated hardwood lumber, pointed-tip stakes. Stakes must be free from large knots that weaken the strength of the stake.

Fence Fabric: 6-ft high panel deer exclusion fence, UV-stabilized, minimum 600 lbs/ sf breaking strength, or equivalent item

Fabric may be attached to wood stakes using heavy-duty zip-ties or 1.5 inch hot dipped galvanized u-nails.

Nylon twine: Braided nylon mason's line #18 gauge cord with tensile strength of 150 pounds.

Plastic flagging tape or Mylar tape

Herbivory Fence shall be installed after final grades in the marsh and upland slope planting areas are completed and approved by. Herbivory Fence shall be installed prior to or concurrently with installation of the marsh and upland plants. Under no circumstances are these plants to be planted outside the containment of a satisfactorily installed Herbivory Fence.

Stakes shall be pounded vertically into the substrate. Herbivory Fence shall be installed a minimum of 18 inches away from the first row of wetland planting. At least one stake shall be also be installed in the interior of each cell to provide support for nylon twine and flagging tape. Planting cells should be approximately 50' x 50' in size. The fence fabric shall be secured at the top, middle, and bottom to the wood stakes with plastic ties. All fence shall be placed so that the bottom of the fence lies entirely on the substrate. Upon completion of the outer perimeter of each cell and the installation of interior stakes, nylon twine shall be strung across the tops of the planting areas from the perimeter stakes to the interior stakes. The nylon twine shall be wrapped around the top of the stake several times. The twine shall be strung to the next stake and wrapped again before continuing on to the next stake. Mylar or plastic flagging, trailing at least 12 inches of tape from the tie, shall be tied to the top of each hardwood stake (both perimeter and interior). The flagging shall also be tied along the interior nylon twine. Stringing of the interior twine and tying of flagging may be done after planting in a cell is completed; however, no planted area is to be left exposed without interior lines and flagging at the end of any workday. No unused strands of nylon twine, fence fabric, packaging materials, wood stakes or any other construction debris shall be left on the Project Site after fence installation and guarantee maintenance has been completed. Herbivory fencing may be removed after two growing seasons if 85% coverage/survivorship is attained.

#### *Plant Material*

Plants shall be well-shaped, well-grown, vigorous plants having healthy and well branched root systems. Plants shall be free from disease, harmful insects and insect eggs, sun-scald injury, disfigurement, and abrasion. Plants shall be free of shock or damage to branches, trunks or root systems that may occur during digging and preparation for shipment, method of shipment or actual shipment. Marsh plants shall be acclimated to saline conditions (20 ppt) when delivered and this needs to be maintain until they are planted. Plants should be from a suitable geographic location to ensure proper adaptation to Long Island climate and edaphic conditions. Plants shall not be injured in handling. Plants shall not be handled by the trunk or stems. Materials shall not be dropped from vehicles.

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WATER FRONT PERMITTING PLANS  
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NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

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H	05/22/17	PERMIT PLANS
I	07/19/17	USACE COMMENTS

**G-003**

SHEET NUMBER  
SHEET 4 OF 50

*Plant Installation*

Plugs:

Plugs shall be planted at a depth of no more than 1 inch deeper than grown in the nursery. The top of the rootstock mass shall be a minimum of 1 inch below the soil surface. Plants shall be set plumb, with the root system oriented downward, and held in position until sufficient soil has been firmly placed by hand around the root mass. The plant shall be set even with or slightly higher than the surrounding grade. It shall be unacceptable to step on or around planting holes for the purposes of placing backfill. All planting shall be done "in the dry", i.e. while the tide is below the elevations of the area being planted.

Shrubs:

Plant pits shall be dug approximately 4 inches wider than the stock size. To encourage well-aerated soil to be available to the root system for favorable root growth, plant pits shall be constructed with sides sloping towards the base. Prior to placing a shrub, fertilizer shall be placed in the bottom of each plant pit. At no time shall fertilizer be placed in the water column or on top of the soil surface.

Fertilizers shall only be applied to upland shrubs. Shrub shall be a slow release tablet with a 20-10-5 nitrogen-phosphorus-potassium ratio. Fertilization rate shall not exceed manufacturer's specifications for appropriate-sized shrub.

*Maintenance*

Upland plants shall be irrigated to ensure 1 inch of water per week through natural precipitation or supplemented by irrigation.

Any plants not installed on the day of delivery at the project site shall be stored and protected in designated areas from direct exposure to wind and sun. Any areas used for temporary storage of low and high marsh plants must be enclosed with perimeter Herbivore Fence to prevent grazing by waterfowl. Plants must not be stored on-site for more than 7 days before planting. If planting is delayed for more than 6 hours after delivery, the plants shall be watered.

Installed plants shall be maintained in a healthy growing condition. Maintenance of planting areas during construction shall include preventing the intrusion of weeds, grass, and other undesired vegetation, watering, and adjusting grades for settling. Grass, weeds, and other undesired vegetation shall be removed before reaching a maximum height of 12 inches.



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NAN-2015-00962-EHA

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C	01/17/17	PERMIT PLANS	JAI	
D	02/09/17	PERMIT PLANS	JAI	
E	02/13/17	PERMIT PLANS	JAI	
F	03/01/17	PERMIT PLANS	NUT	
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G-004

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Any planted areas disturbed prior to completion of the guarantee/maintenance period of five growing seasons shall be repaired or reinstalled in accordance with the above specifications.

During the guarantee/maintenance period and until final acceptance, mechanical weed removal, hand pulling and herbicide application may be utilized to keep materials free from invasive vegetation.

During the guarantee/maintenance period, twice-yearly inspections (between May and August) to identify and remove any invasive vegetation [i.e. *Phragmites australis* (Common reed grass), *Ailanthus altissima* (Tree-of-Heaven), *Eleagnus angustifolia* (Russian olive), *Artemesia vulgaris* (mugwort) or other invasive species]. All plant vegetation and naturally recruiting native vegetation shall remain undisturbed. Mechanical weed removal shall consist of the removal of stems and rhizomes. Should invasives cover 5% or more of the site herbicide may be applied.

Necessary environmental permits must be obtained for any herbicide treatments. Herbicides shall be used with extreme caution in regard to safety and health. All manufacturer's safety instructions to avoid adverse impacts to human health must be followed. Any spray materials shall be applied with great care to avoid collateral damage to surrounding, native or planted vegetation. Applications to herbaceous invasives shall consist of a glyphosate based herbicide with a non-ionic surfactant. Applications to woody invasives shall consist of spraying the cut stump. All herbicides shall be applied by hand painting, back-pack sprayer or other controlled means to prevent damage to desirable planted vegetation. All spraying shall be done at times when wind does not exceed a velocity of five (5) miles per hour.

#### *Survivorship Guarantee/Maintenance Period*

As required by NYSDEC in their Salt Marsh Restoration and Monitoring Guidelines (Niedowski, 2000), applicant shall be responsible for ensuring 85 percent survival of the planted vegetation over five (5) growing seasons. Eighty-five percent (85%) survival shall not be required over five growing seasons if greater than 85% coverage of native vegetation is observed. The plant guarantee period shall commence on the date of the completion of construction, and shall end on October 15 on the fifth growing season. Plant losses due to herbivores, disease, drought, wind, or storm events shall not lower the minimum survival or coverage requirements. If replacement plants are installed at the end of the five year period to attain 85% survival or coverage, replacement plants shall be guaranteed for an additional growing season from the date of replanting. For low marsh sods, replacement will consist of a 3 ft by 3 ft plot with *Spartina alterniflora* plugs placed 6 inches on center, or a total of 36 plugs.

Note:

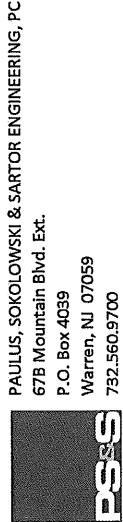
Intertidal and low marsh plantings refer to the Low Sill Planting Area at Renaissance Park (current application) and the Upper Reach of Glen Cove Creek (future application). Please refer to the Dredge & Excavation Work Plan (DEWP) for the sequence of construction for these areas.



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C	01/17/17	PERMIT PLANS	JAN	G-005
D	02/09/17	PERMIT PLANS	JAN	
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F	03/01/17	PERMIT PLANS	JAN	
G	03/02/17	PERMIT PLANS	JAN	
H	05/22/17	PERMIT PLANS	JUN	
I	07/19/17	USACE COMMENTS	JUL	

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### OUTLET PROTECTION CALCULATIONS

Project Name: Garvies Point Redevelopment

Designed by : Gary Ym / Brian Liebeskind

Date: 6/3/2016

Revised: 1/26/17

1. Outfall OF519

$D_o = 18 \text{ inches}$ ,  $Q=5.8 \text{ cfs}$ . Invert = 3.5 ft. MLW = -3.90 ft.

Use minimum tailwater condition.

Finding from Figure 3.16

$D_{so} = 0.4 \text{ ft. - use 5 inches}$

Riprap apron length  $L_a = 10 \text{ ft.}$

Width  $W = D_o + L_a = 1.5 + 10.0 = 11.5 \text{ ft.}$

Width @ outlet =  $3 * D_o = 3 * 1.5 = 4.5 \text{ ft.}$

$D_{max} = 1.5 * D_{so} = 1.5 * 5 = 7.5 \text{ inches}$

Min. Blanket Thickness  $H = 1.5 * D_{max} = 11.25 \text{ inches} \rightarrow \text{use 12 inches}$

Approximate volume of riprap = 3.0 c.y.

2. Outfall OF395

$D_o = 36 \text{ inches}$ ,  $Q=41.6 \text{ cfs}$ . Invert = 3.5 ft. MLW = -3.90 ft.

Use minimum tailwater condition.

Finding from Figure 3.16

$D_{so} = 0.6 \text{ ft. - use 8 inches}$

Riprap apron length  $L_a = 18 \text{ ft.}$

Width  $W = D_o + L_a = 3.0 + 18.0 = 21.0 \text{ ft.}$

Width @ outlet =  $3 * D_o = 3 * 3.0 = 9.0 \text{ ft.}$

$D_{max} = 1.5 * D_{so} = 1.5 * 8 = 12 \text{ inches.}$

Min. Blanket Thickness  $H = 1.5 * D_{max} = 18.0 \text{ inches.}$

Approximate volume of riprap 15.0 c.y.

3. Outfall OF484

Since the bottom of the stream is approximate 5 feet below the MLW (i.e. more than 5 feet of water at MLW), no riprap is proposed based upon the engineering considerations.

Reference: "New York Standards and Specifications for Erosion and Sediment Control", November 2016.

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### OUTLET PROTECTION CALCULATIONS

Project Name: Garvies Point Redevelopment - Phase II

Designed by : Gary Ym / Brian Liebeskind

Date: 1/26/2017

Revised:

1. Outfall OF146

$D_o = 36 \text{ inches}$ ,  $Q=35.3 \text{ cfs}$ . Invert = 3.5 ft. MLW = -3.90 ft.

Use minimum tailwater condition.

Finding from Figure 3.16

$D_{so} = 0.25 \text{ ft. - use 7 inches}$

Riprap apron length  $L_a = 20 \text{ ft.}$

Width  $W = D_o + L_a = 3.0 + 20.0 = 23.0 \text{ ft.}$

Width @ outlet =  $3 * D_o = 3 * 3.0 = 9.0 \text{ ft.}$

$D_{max} = 1.5 * D_{so} = 1.5 * 7 = 10.5 \text{ inches.}$

Min. Blanket Thickness  $H = 1.5 * D_{max} = 15.75 \text{ inches} \rightarrow \text{use 16 inches}$

Approximate volume of riprap = 15.8 c.y.

2. Outfall OF238

$D_o = 30 \text{ inches}$ ,  $Q=23.2 \text{ cfs}$ . Invert = 3.5 ft. MLW = -3.90 ft.

Use minimum tailwater condition.

Finding from Figure 3.16

$D_{so} = 0.45 \text{ ft. - use 6 inches}$

Riprap apron length  $L_a = 15 \text{ ft.}$

Width  $W = D_o + L_a = 3.0 + 15.0 = 17.5 \text{ ft.}$

Width @ outlet =  $3 * D_o = 3 * 3.0 = 9.0 \text{ ft.}$

$D_{max} = 1.5 * D_{so} = 1.5 * 6 = 9 \text{ inches.}$

Min. Blanket Thickness  $H = 1.5 * D_{max} = 13.5 \text{ inches} \rightarrow \text{use 14 inches}$

Approximate volume of riprap = 8.1 c.y.

Reference: "New York Standards and Specifications for Erosion and Sediment Control", November 2016.

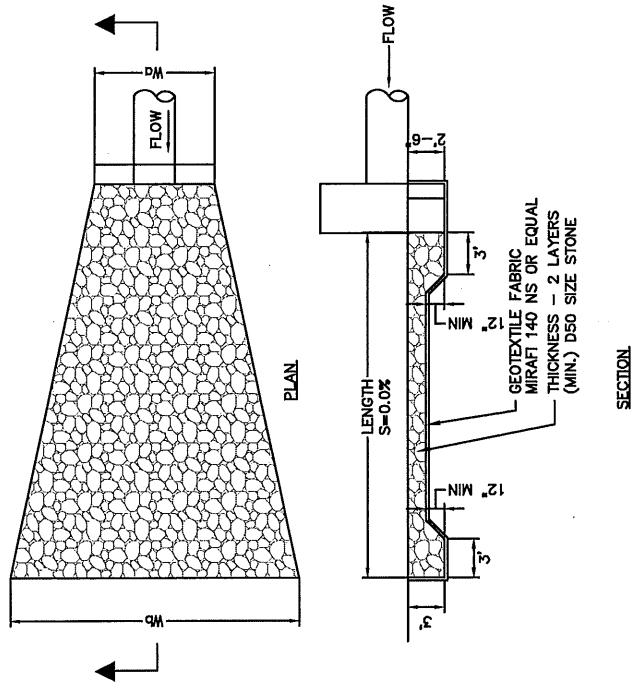
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		E	02/15/17	PERMIT PLANS	JAN
		F	03/01/17	PERMIT PLANS	MAR
		G	03/02/17	PERMIT PLANS	MAR
		H	03/22/17	PERMIT PLANS	MAR
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**G-006**

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RIPRAP APRON DETAIL

NOT TO SCALE

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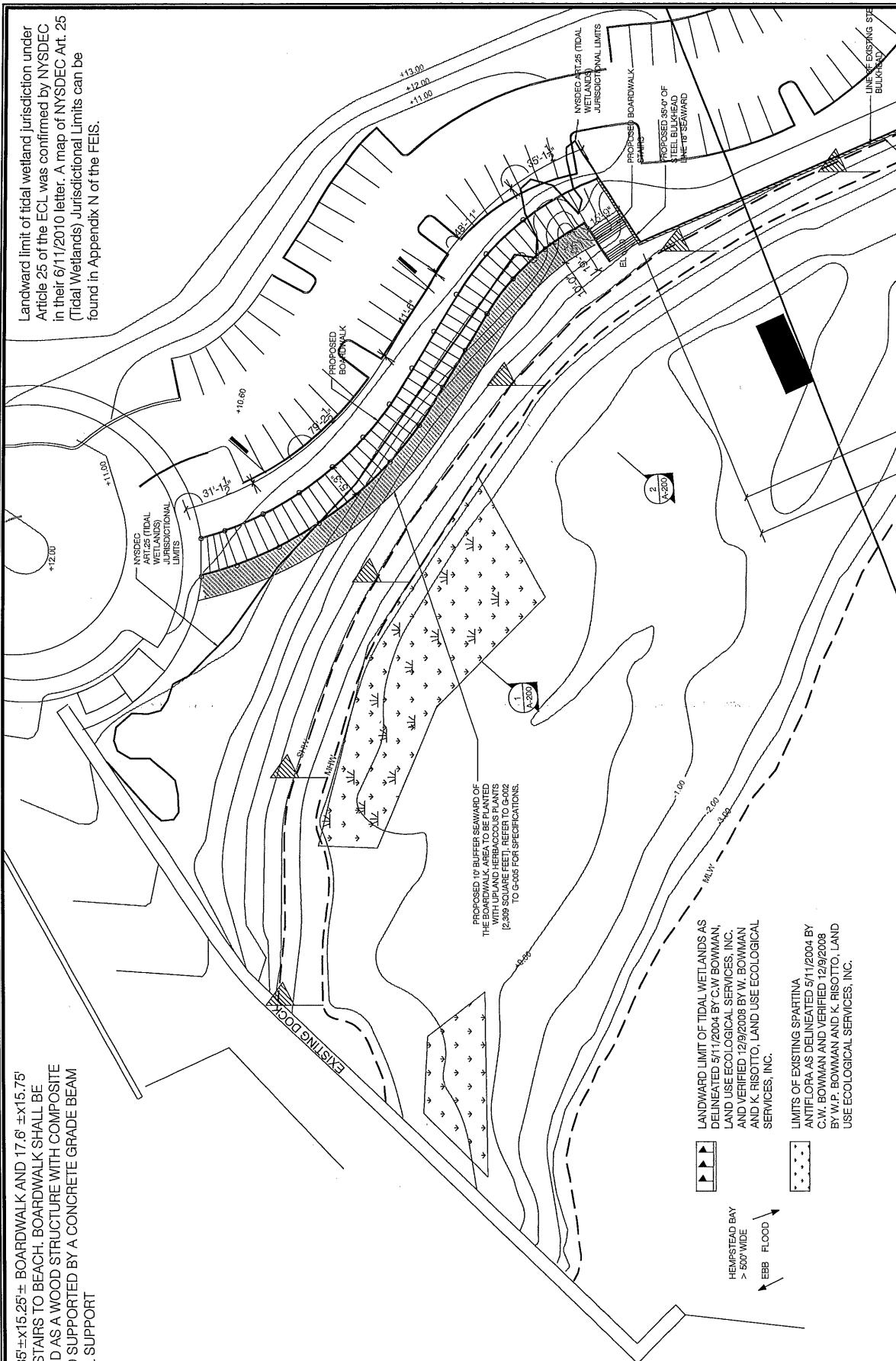
**G-007**

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		REV.	DATE	DESCRIPTION	EX
	C	01/17/17		PERMIT PLANS	JAN
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	E	02/13/17		PERMIT PLANS	JAN
	F	03/01/17		PERMIT PLANS	JAN
	G	03/02/17		PERMIT PLANS	JAN
	H	05/22/17		PERMIT PLANS	JAN
	I	07/19/17		USAGE COMMENTS	JULY

PROPOSED  $235 \pm X 15.25 \pm$  BOARDWALK AND  $17.8 \pm X 15.75$  BOARDWALK STAIRS TO BEACH. BOARDWALK SHALL BE CONSTRUCTED AS A WOOD STRUCTURE WITH COMPOSITE DECKING AND SUPPORTED BY A CONCRETE GRADE BEAM WITH HELICAL SUPPORT.

Landward limit of tidal wetland jurisdiction under Article 25 of the ECL was confirmed by NYSDEC in their 6/11/2010 letter. A map of NYSDEC Art. 25 (Tidal Wetlands) Jurisdictional Limits can be found in Appendix N of the FEIS.



1 GARIES POINT BEACH PLAN

1° = 60'

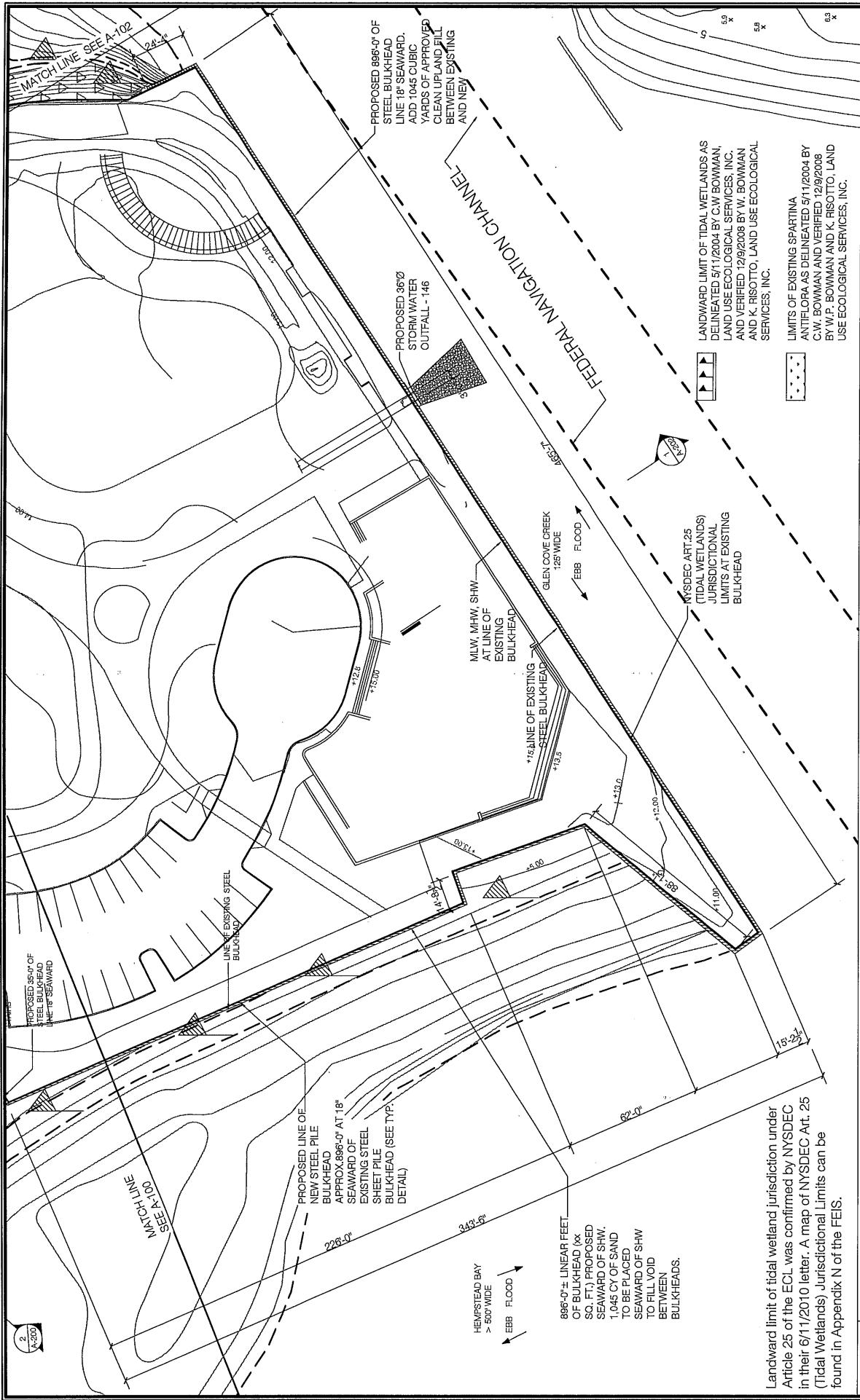


GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-000962-EHA

SUBMITTALS		SHEET NUMBER	
REV	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAH
D	02/09/17	PERMIT PLANS	JAH
E	02/13/17	PERMIT PLANS	JAH
F	03/02/17	PERMIT PLANS	NFT
G	03/07/17	PERMIT PLANS	NFT
H	05/22/17	PERMIT PLANS	NFT
I	07/19/17	USAGE COMMENTS	NFT

SHEET 9 OF 50

9143



1 GARNIES POINT BEACH PLAN

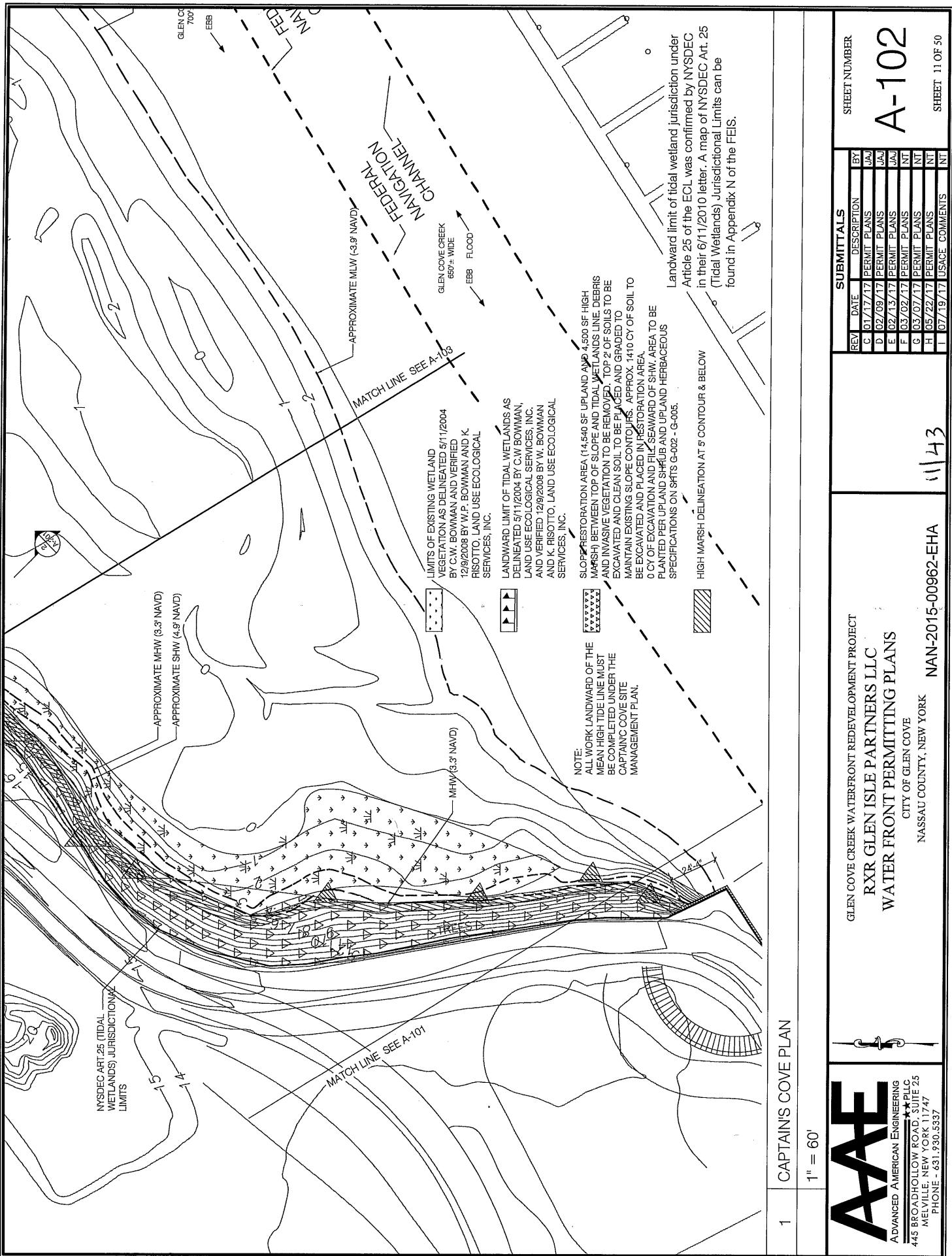
AAE

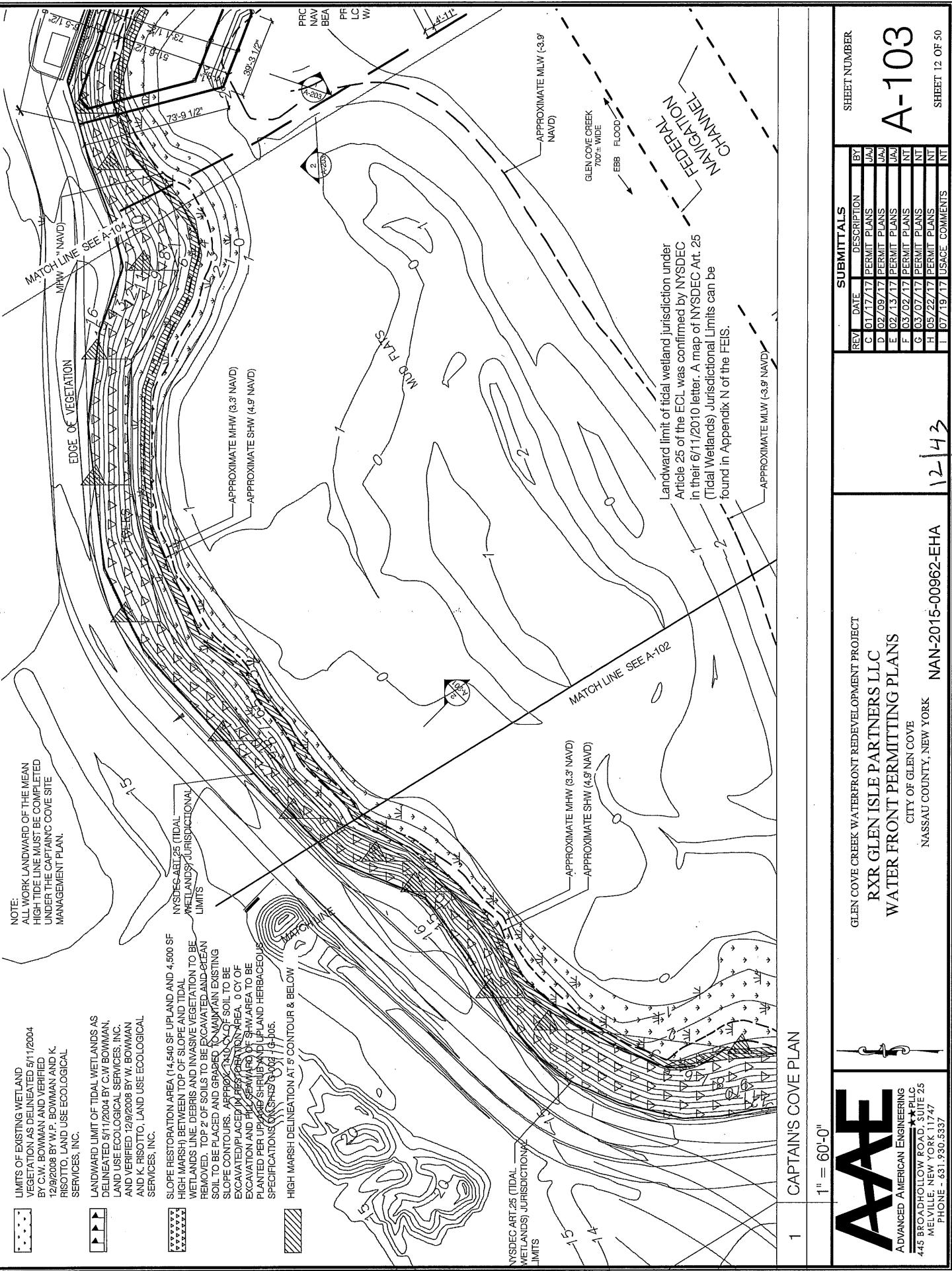
GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK

ADVANCED AMERICAN ENGINEERING  
445 BROADHOLLOW ROAD ★ PILC  
MELVILLE, NEW YORK 11747  
PHONE: 631.930.5537

SUBMITTALS				SHEET NUMBER
REV	DATE	DESCRIPTION	BY	
C	01/17/17	PERMIT PLANS	JAY	A-101
D	02/09/17	PERMIT PLANS	JAY	
E	02/13/17	PERMIT PLANS	JAY	
F	03/07/17	PERMIT PLANS	JAY	
G	03/07/17	PERMIT PLANS	JAY	
H	05/22/17	PERMIT PLANS	JAY	
I	07/19/17	USAGE COMMENTS	JAY	

SHEET 10 OF 50





- NOTES:
- ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO A TOTAL DREDGE DEPTH OF -10' NAVD.
  - ANY WATER ACCUMULATED ON PARCELS AS A RESULT OF THE DREDGING STOCKPILES WILL FOLLOW THE DЕWATERING PROCEDURES APPROVED BY DEC UNDER THE FLUIDS MANAGEMENT SECTION OF THE EWP.

SEE A-111 & A-112 FOR ECO PIER & LOW SILL BULKHEAD

ECOLOGICAL PIER: PROPOSED ALUMINUM TRUSS LONG SPAN BOARDWALK OPEN GATE DECKING WITH MINIMAL PILE

EXISTING REGINA MARIS

PROPOSED 56'-0" OF ALUMINUM RAMP (TYP)

WETLANDS JURISDICTIONAL LIMITS AT EXISTING BULKHEAD LINE

SEE A-110 DWG #1

NYSDEC ART 25 (TIDAL

SHORELINES)

APPROXIMATE MLW (-3' NAVD)

8' NAVD

8'-11"

8'

30'-3"

30'-0"

30'-3"

30'-0"

30'-3"

30'-0"

30'-3"

30'-0"

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30'-0"

PROPOSED 30'-0" STORM  
WATER OUTFALL - 238

PROPOSED MAIN TIMBER

FLOATING DOCK (TYP.)

MATCH LINE  
SEE A-105

EXISTING  
TERM

ECOLOGICAL PIER: PROPOSED ALUMINUM TRUSS LONG SPAN BOARDWALK OPEN GATE DECKING WITH MINIMAL PILE

SEE A-111 & A-112 FOR ECO PIER & LOW SILL BULKHEAD

EXISTING STEEL SHEET PILE BULKHEAD AT 45'-7 1/2" AT 18' SEWARD OF EXISTING STEEL (SEE TYP. SECTION), PROPOSED 564 CUBIC YARDS OF CLEAN SAND/LOAM TO BE PLACED IN GAP BETWEEN EXISTING AND PROPOSED BULKHEAD

APPROXIMATE MHW (3' NAVD)

PROPOSED 56'-0" OF ALUMINUM RAMP (TYP.)

WETLANDS JURISDICTIONAL LIMITS AT EXISTING BULKHEAD LINE

SEE A-110 DWG #1

NYSDEC ART 25 (TIDAL

SHORELINES)

APPROXIMATE MLW (-3' NAVD)

8' NAVD

8'-11"

8'

30'-3"

30'-0"

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30'-0"

30'-3"

30'-0"

PROPOSED LINE OF NEW STEEL SHEET PILE BULKHEAD AT 45'-7 1/2" AT 18' SEWARD OF EXISTING STEEL (SEE TYP. SECTION), PROPOSED 564 CUBIC YARDS OF CLEAN SAND/LOAM TO BE PLACED IN GAP BETWEEN EXISTING AND PROPOSED BULKHEAD

APPROXIMATE MHW (3' NAVD)

PROPOSED MAIN TIMBER

FLOATING DOCK (TYP.)

MATCH LINE SEE A-105

EXISTING TERM

PROPOSED 56'-0" OF ALUMINUM RAMP (TYP.)

WETLANDS JURISDICTIONAL LIMITS AT EXISTING BULKHEAD LINE

SEE A-110 DWG #1

NYSDEC ART 25 (TIDAL

SHORELINES)

APPROXIMATE MLW (-3' NAVD)

8' NAVD

8'-11"

8'

30'-3"

30'-0"

30'-3"

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30'-0"

PROPOSED LINE OF NEW STEEL SHEET PILE BULKHEAD AT 45'-7 1/2" AT 18' SEWARD OF EXISTING STEEL (SEE TYP. SECTION), PROPOSED 564 CUBIC YARDS OF CLEAN SAND/LOAM TO BE PLACED IN GAP BETWEEN EXISTING AND PROPOSED BULKHEAD

APPROXIMATE MHW (3' NAVD)

PROPOSED MAIN TIMBER

FLOATING DOCK (TYP.)

MATCH LINE SEE A-105

EXISTING TERM

PROPOSED 56'-0" OF ALUMINUM RAMP (TYP.)

WETLANDS JURISDICTIONAL LIMITS AT EXISTING BULKHEAD LINE

SEE A-110 DWG #1

NYSDEC ART 25 (TIDAL

SHORELINES)

APPROXIMATE MLW (-3' NAVD)

8' NAVD

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30'-0"

BULDED AREA TO APPROXIMATE 45'-0" HIGH (450 SF UPLAND AND 450 SF HIGH TIDE WETLANDS LINE).

DEBRIS AND INVADERS TO BE REMOVED: TOP 2' OF SOIL TO BE DREDGED TO A DEPTH OF -6' MLW + 1.327 CY TO BE OVERDREDGED AND CAPPED WITH 4" OF GRAVEL (442 CY) AND 8" OF CLEAN APPROVED UPLAND SAND (884 CY).

LINE OF EXISTING WETLAND VEGETATION AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.

AND VERIFIED 12/19/2008 BY W. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.

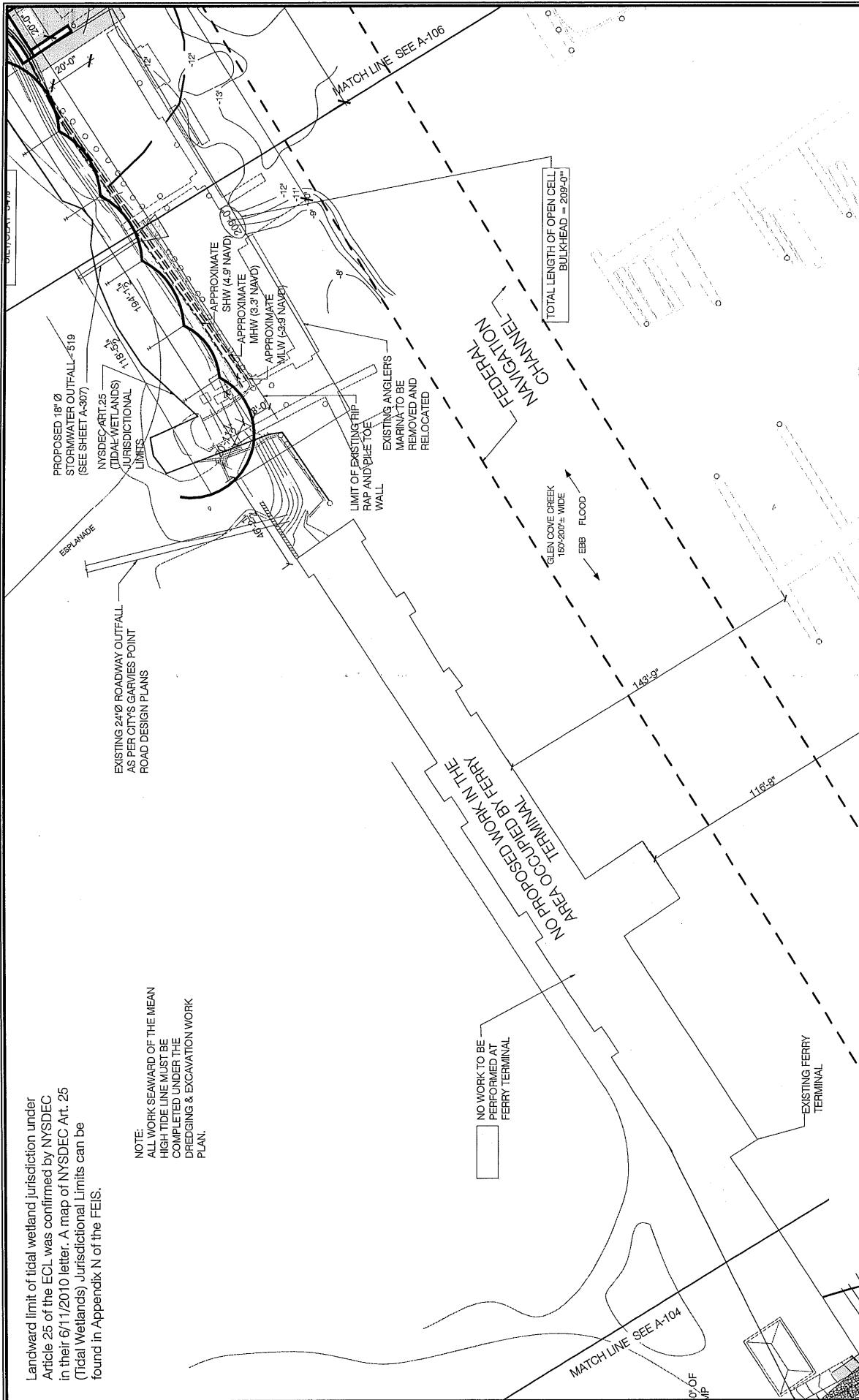
SLOPE RESTORATION AREA (14'540 SF UPLAND AND 4'500 SF HIGH TIDE WETLANDS LINE).

DEBRIS AND INVADERS TO BE REMOVED: TOP 2' OF SOIL TO BE DREDGED TO A DEPTH OF -6' MLW + 1.327 CY TO BE OVERDREDGED AND CAPPED WITH 4" OF GRAVEL (442 CY) AND 8" OF CLEAN APPROVED UPLAND SAND (884 CY).

SO

Landward limit of tidal wetland jurisdiction under Article 25 of the ECL was confirmed by NYSDEC in their 6/1/2010 letter. A map of NYSDEC Art. 25 (Tidal Wetlands) Jurisdictional Limits can be found in Appendix N of the FEIS.

NOTE:  
ALL WORK SEAWARD OF THE MEAN  
HIGH TIDE LINE MUST BE  
COMPLETED UNDER THE  
DREDGING & EXCAVATION WORK  
PLAN.



1 FERRY TERMINAL

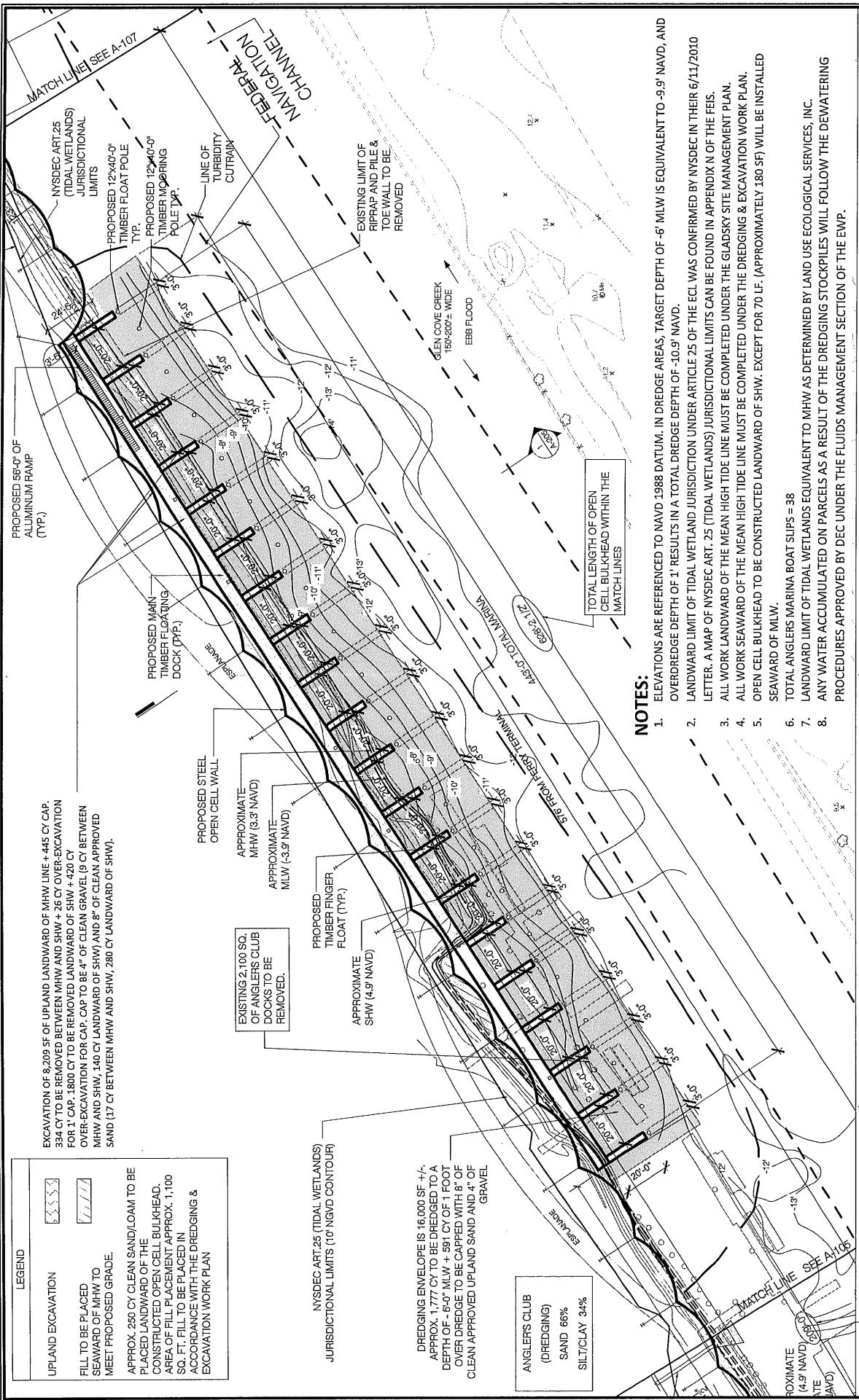
1' = 60'-0"



GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAD
D	02/09/17	PERMIT PLANS	JAD
E	02/13/17	PERMIT PLANS	JAD
F	03/02/17	PERMIT PLANS	NT
G	03/07/17	PERMIT PLANS	NT
H	05/22/17	PERMIT PLANS	NT
I	07/19/17	USACE COMMENTS	NT

A-105  
SHEET 14 OF 50



1 ANGLER'S CLUB MARINA PLAN

1" = 60'

**AAE**  
ADVANCED AMERICAN ENGINEERING  
445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE: 631.930.5337

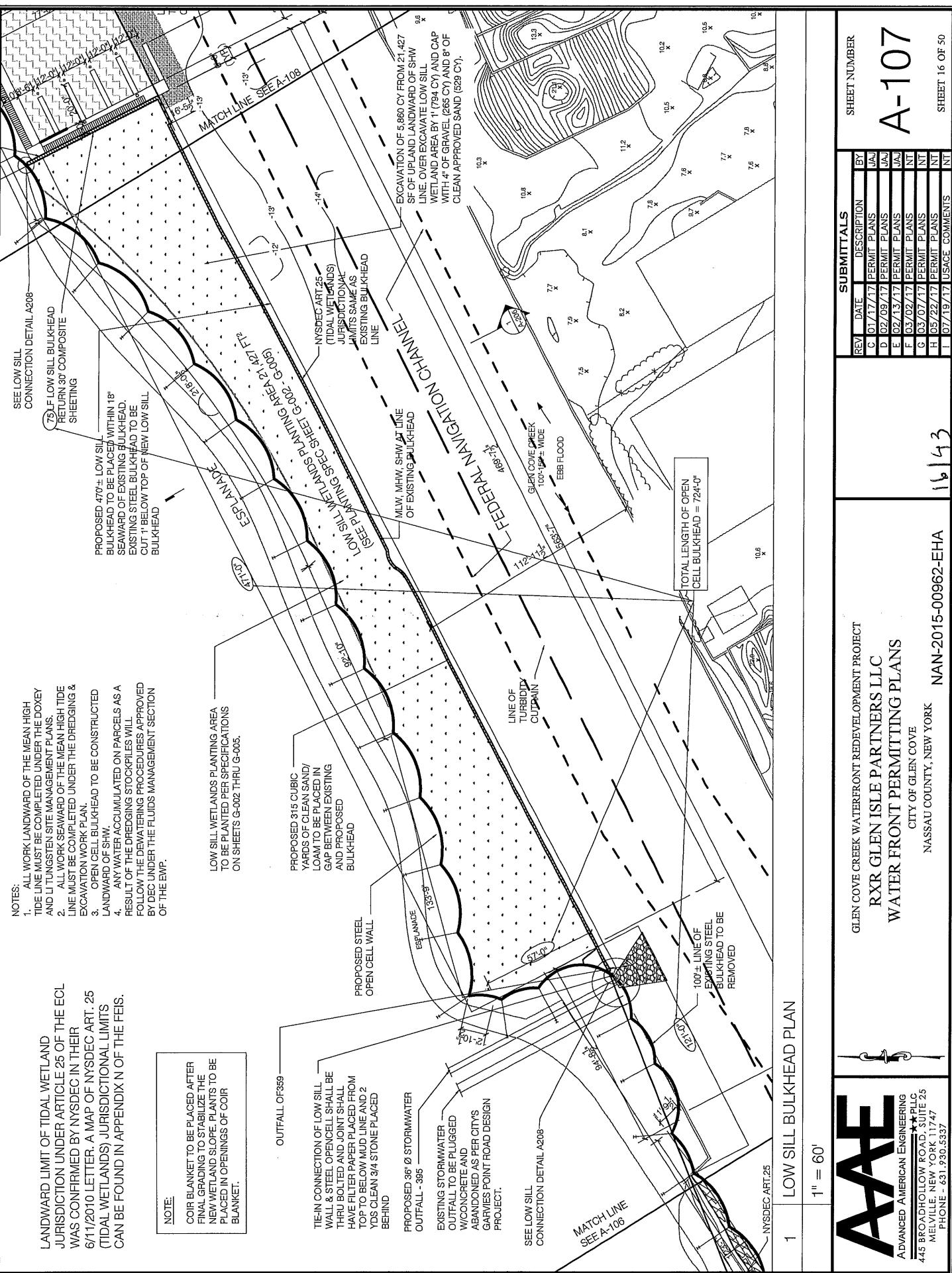
GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK

NAN-2015-00962-EHA

15 | 43

**A-106**  
SHEET NUMBER  
SHEET 15 OF 50

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAD
D	02/09/17	PERMIT PLANS	JAD
E	02/13/17	PERMIT PLANS	JAD
F	03/02/17	PERMIT PLANS	NT
G	03/07/17	PERMIT PLANS	NT
H	05/22/17	PERMIT PLANS	NT
I	07/19/17	USACE COMMENTS	NT



- NOTES:**
- ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9.9' NAVD, AND OVERDREDGE DEPTH OF 1' RESULTS IN A TOTAL DREDGE DEPTH OF -10.9' NAVD.
  - LANDWARD LIMIT OF TIDAL WETLAND JURISDICTION UNDER ARTICLE 25 OF THE ECL WAS CONFIRMED BY NYSDDEC IN THEIR 6/11/2010 LETTER. A MAP OF NYSDDEC ART. 25 (TIDAL WETLANDS) JURISDICTIONAL LIMITS CAN BE FOUND IN APPENDIX K OF THE FEIS.
  - ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DOXEY AND LITTINGSTEN SITE MANAGEMENT PLANS.
  - ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.
  - OPEN CELL BULKHEAD TO BE CONSTRUCTED LANDWARD OF SHW.
  - TOTAL TRANSIENT MARINA BOAT SLIPS = 56
  - Maintenance dredge area covered under the 10-year permit.
  - Current dredge area for 2017 proposed dredging project.
  - Any water accumulated on parcels as a result of the dredging stockpiles will follow the dewatering procedures approved by DEC under the fluids management section of the EWP

LEGEND
UPLAND EXCAVATION
Maintenance dredge area
Current dredge area
<-10 NAVD contour +/-

PROPOSED 56'-0" OF ALUMINUM RAMP (TYP)

PROPOSED MAIN TIMBER  
FLOATING DOCK (TYP.)

FLOATING DOCK (TYP.)

PROPOSED STEEL  
OPEN CELL WALL

TOTAL LENGTH OF OPEN  
CELL BULKHEAD = 547'-1 1/2"

PROPOSED STEEL

PROPOSED 56'-0" OF  
ALUMINUM RAMP (TYP.)

75 LF OF LOW SILL  
BULKHEAD 30  
COMPOSITE  
SHEETING

LINE OF EXISTING

STEEL BULKHEAD  
AND NYSDDEC ART.  
25 (TIDAL  
WETLANDS)

JURISDICTIONAL  
LIMITS

LINE OF  
TURBIDITY  
CUTOFF

FEDERAL NAVIGATION CHANNEL

203'

203'

203'

203'

203'

203'

203'

1 TRANSIENT MARINA PLAN

1" = 60'

**AAC**  
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MELVILLE, NEW YORK 11747  
PHONE + 631.930.5637

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK

NAN-2015-00962-EHA

REV DATE DESCRIPTION BY  
C 01/17/17 PERMIT PLANS JAJ  
D 02/09/17 PERMIT PLANS JAJ  
E 02/13/17 PERMIT PLANS JAJ  
F 03/02/17 PERMIT PLANS NFT  
G 03/02/17 PERMIT PLANS NFT  
H 05/22/17 PERMIT PLANS NFT  
I 07/19/17 USACE COMMENTS NFT

**A-108**

SHEET NUMBER

SHEET 17 OF 50

PROPOSED LOW SILL BULKHEAD  
WETLANDS PLANTING AREA 21,427 FT<sup>2</sup>  
(SEE PLANTING SPEC SHEET G-003)

EXISTING STEEL BULKHEAD TO BE  
CUT 1' BELOW PROPOSED  
GRADE. VOID BETWEEN NEW AND  
OLD SHALL BE FILLED WITH 315  
CY OF CLEAN APPROVED UPLAND  
SANDY LOAM

NYSDEC ART.25  
(TIDAL WETLANDS)  
JURISDICTIONAL  
LIMITS AT EXISTING  
BULKHEAD

PROPOSED 554 CUBIC  
YARDS OF CLEAN SAND/  
LOAM TO BE PLACED IN  
GAP BETWEEN EXISTING  
AND PROPOSED BULKHEAD

LINE OF EXISTING  
STEEL BULKHEAD

PROPOSED 457'-11"  
OF STEEL  
BULKHEAD 18"  
SEAWARD

NYSDEC ART.25  
(TIDAL WETLANDS)  
JURISDICTIONAL  
LIMITS

TIE-IN CONNECTION OF LOW SILL  
WALL & STEEL OPENCCELL SHALL  
BE THRU BOLTED AND JOINT  
SHALL HAVE FILTER PAPER PLACED  
FROM TOP OF WALL TO BELOW  
MUD LINE AND 2 YDS CLEAN 3/4  
STONE PLACED BEHIND

LINE OF  
EXISTING STEEL  
BULKHEAD

Landward limit of tidal wetland jurisdiction under  
Article 25 of the ECL was confirmed by NYSDEC  
in their 6/11/2010 letter. A map of NYSDEC Art. 25  
(Tidal Wetlands) Jurisdictional Limits can be  
found in Appendix N of the FEIS.

PROPOSED LOW SILL  
BULKHEAD  
CONSTRUCTION  
WITHIN 18" OF EXIST. \_\_\_\_

STEEL BULKHEAD  
NEW STEEL OPEN CELL BULKHEAD  
AT LINE OF EXIST. STEEL BULKHEAD

2 BULKHEAD PLACEMENT AT LOW SILL BULKHEAD

N.T.S.

1 SMALL VESSEL MARINA BULKHEAD PLACEMENT

N.T.S.

**AAE**

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★ PLLC  
445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE - (631) 930-5537

SUBMITTALS		SHEET NUMBER	
REV.	DATE	DESCRIPTION	EX
C	01/17/17	PERMIT PLANS	JAN
D	02/08/17	PERMIT PLANS	JAN
E	02/13/17	PERMIT PLANS	JAN
F	03/02/17	PERMIT PLANS	JAN
G	03/07/17	PERMIT PLANS	JAN
H	05/22/17	PERMIT PLANS	JUN
I	07/19/17	USAGE COMMENTS	JUL

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS

CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK

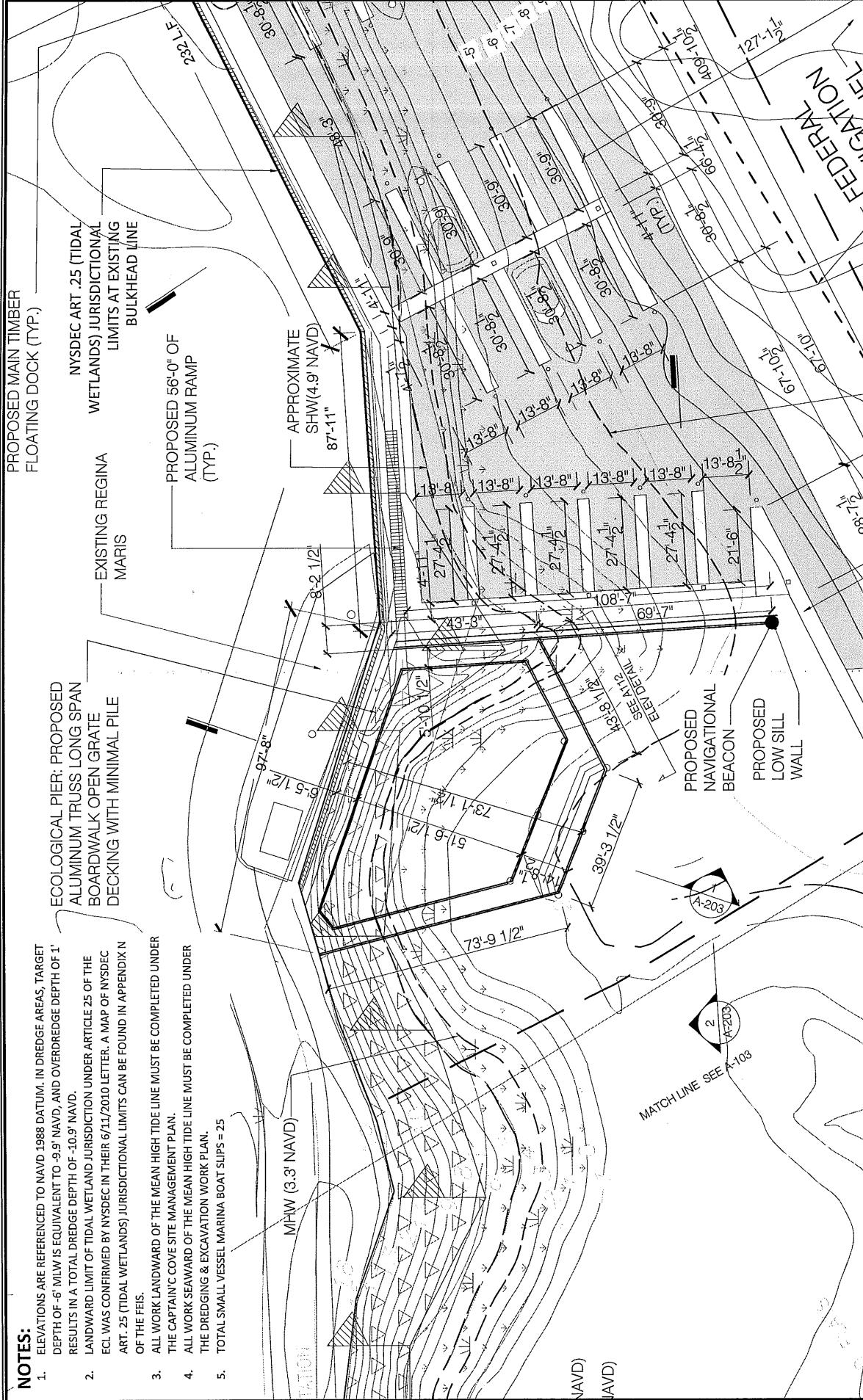
NAN-2015-00962-EHA  
1843

SHEET 19 OF 50

**A-110**

**NOTES:**

- ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9.9' NAVD, AND OVERDREDGE DEPTH OF 1' RESULTS IN A TOTAL DREDGE DEPTH OF -10.9' NAVD.
- LANDWARD LIMIT OF TIDAL WETLAND JURISDICTION UNDER ARTICLE 25 OF THE ECL WAS CONFIRMED BY NYSDC IN THEIR 6/11/2010 LETTER. A MAP OF NYSDC ART. 25 (TIDAL WETLANDS) JURISDICTIONAL LIMITS CAN BE FOUND IN APPENDIX N OF THE FEIS.
- ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE CAPTAINIC COVE SITE MANAGEMENT PLAN.
- ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.
- TOTAL SMALL VESSEL MARINA BOAT SLIPS = 25

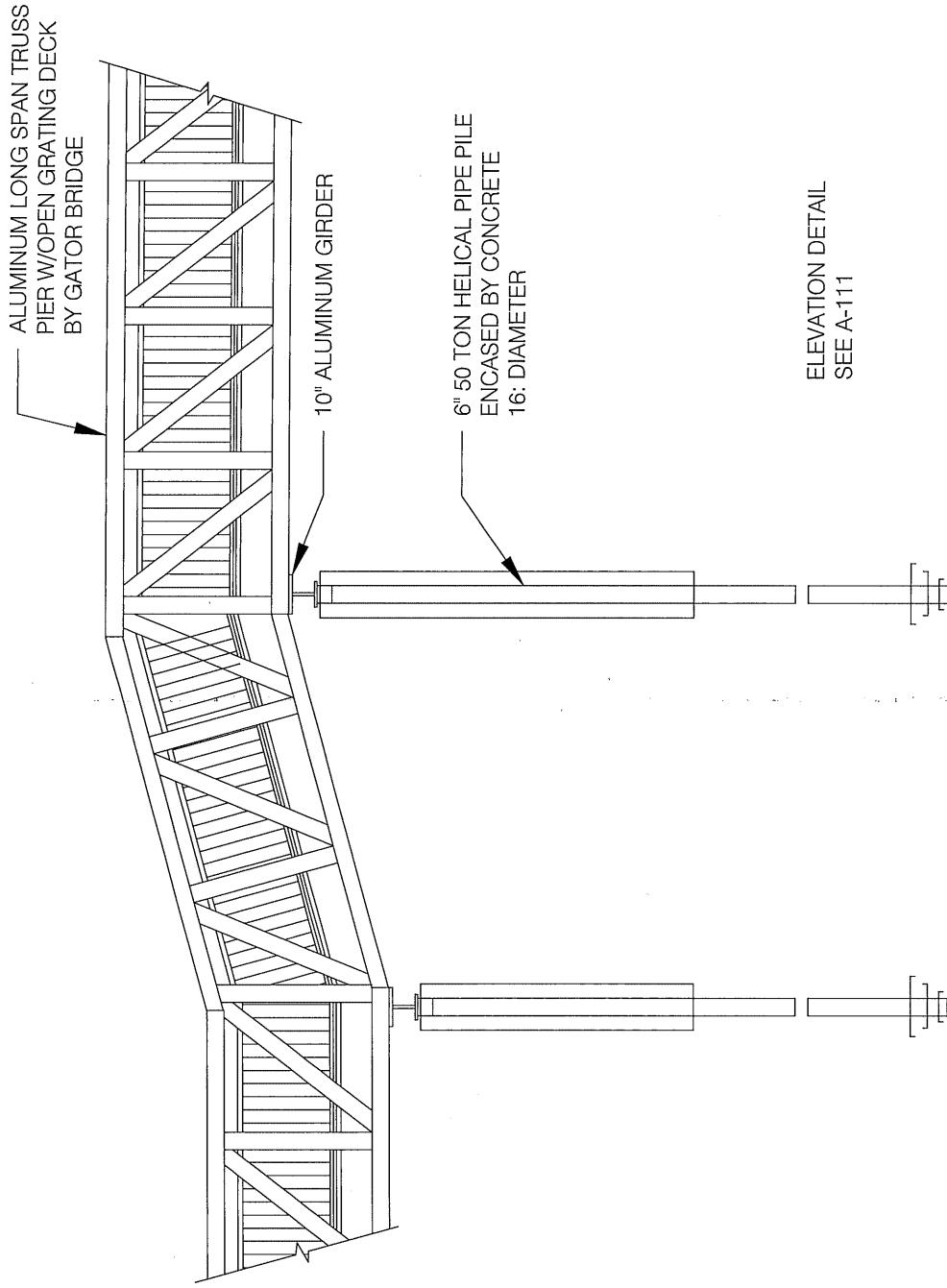


SUBMITTALS		SHEET NUMBER	
REV	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAD
D	02/09/17	PERMIT PLANS	JAD
E	02/13/17	PERMIT PLANS	JAD
F	03/02/17	PERMIT PLANS	JAD
G	03/02/17	PERMIT PLANS	NFT
H	05/22/17	PERMIT PLANS	NFT
I	07/19/17	USACE COMMENTS	NFT

**A-111**

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

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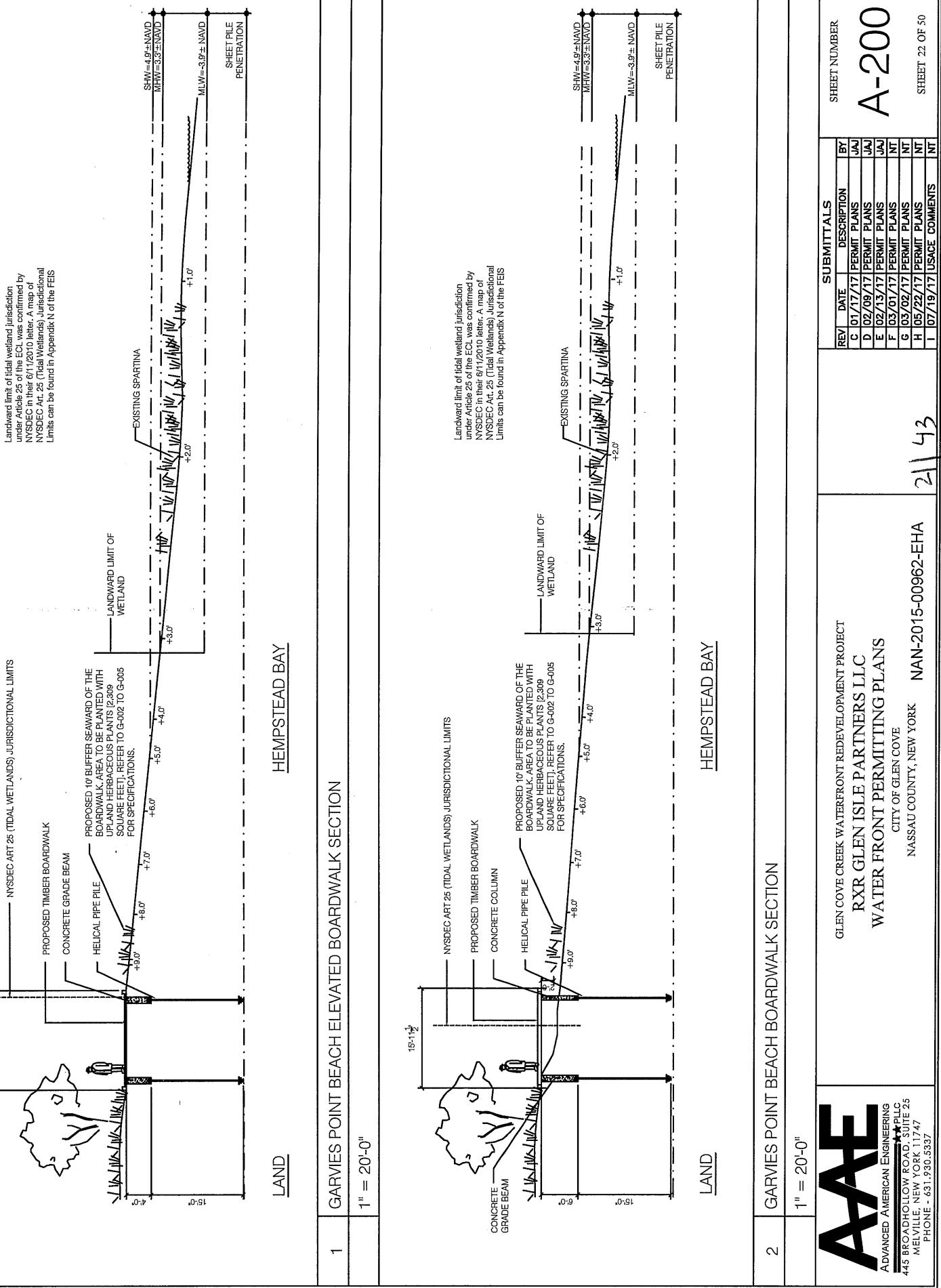
1 ECOLOGICAL PIER DETAIL		SUBMITTALS		SHEET NUMBER
N.T.S.		REV	DATE	DESCRIPTION BY
		C	01/17/17	PERMIT PLANS
		D	02/08/17	PERMIT PLANS
		E	02/13/17	PERMIT PLANS
		F	03/02/17	PERMIT PLANS
		G	03/07/17	PERMIT PLANS
		H	05/22/17	PERMIT PLANS
		I	07/19/17	USAGE COMMENTS

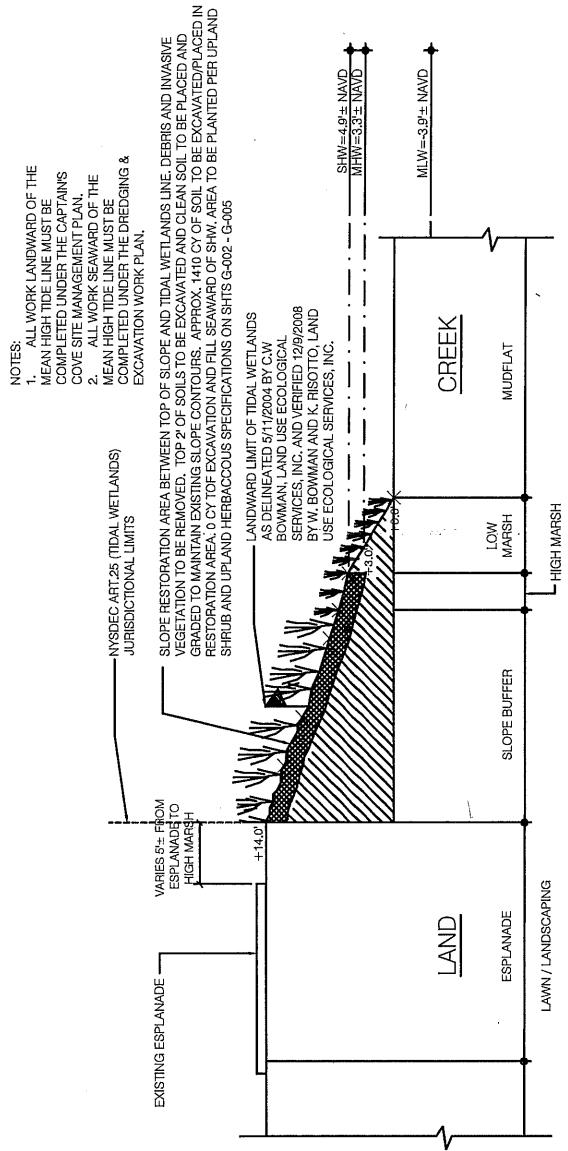
**A-112**

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

20143

SHEET 21 OF 50





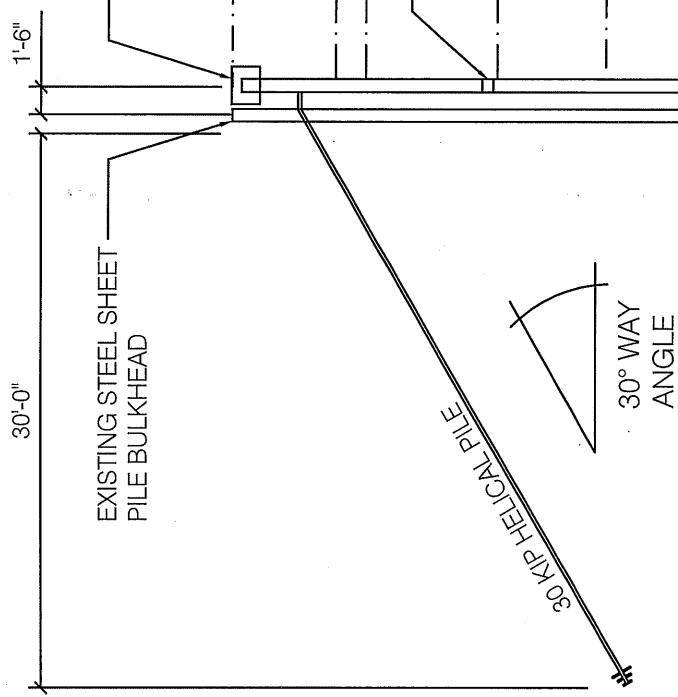
2	CAPTAIN'S COVE SECTION
	1" = 20'-0"

**AAE**  
ADVANCED AMERICAN ENGINEERING  
445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE - 631.930.5337

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

REV	DATE	DESCRIPTION	BY	SHEET NUMBER
C	01/17/17	PERMIT PLANS	JAJ	A-201
D	02/09/17	PERMIT PLANS	JAJ	
E	02/13/17	PERMIT PLANS	JAJ	
F	03/01/17	PERMIT PLANS	JAJ	
G	03/02/17	PERMIT PLANS	NT	
H	05/22/17	PERMIT PLANS	NT	
I	07/19/17	USACE COMMENTS	NT	

- NOTES:**
- ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE CAPTAIN'S COVE SITE MANAGEMENT PLAN (SMALL VESSEL MARINA), OR DOXEY OR LIT TUNGSTEN SMP (LOW SILL BULKHEAD).
  - ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.



PLACE 1914 CY OF CLEAN UPLAND FILL BETWEEN EXISTING AND PROPOSED BULKHEADS. SEE A-101, A-104 AND A-107 FOR QUANTITIES BY AREA.

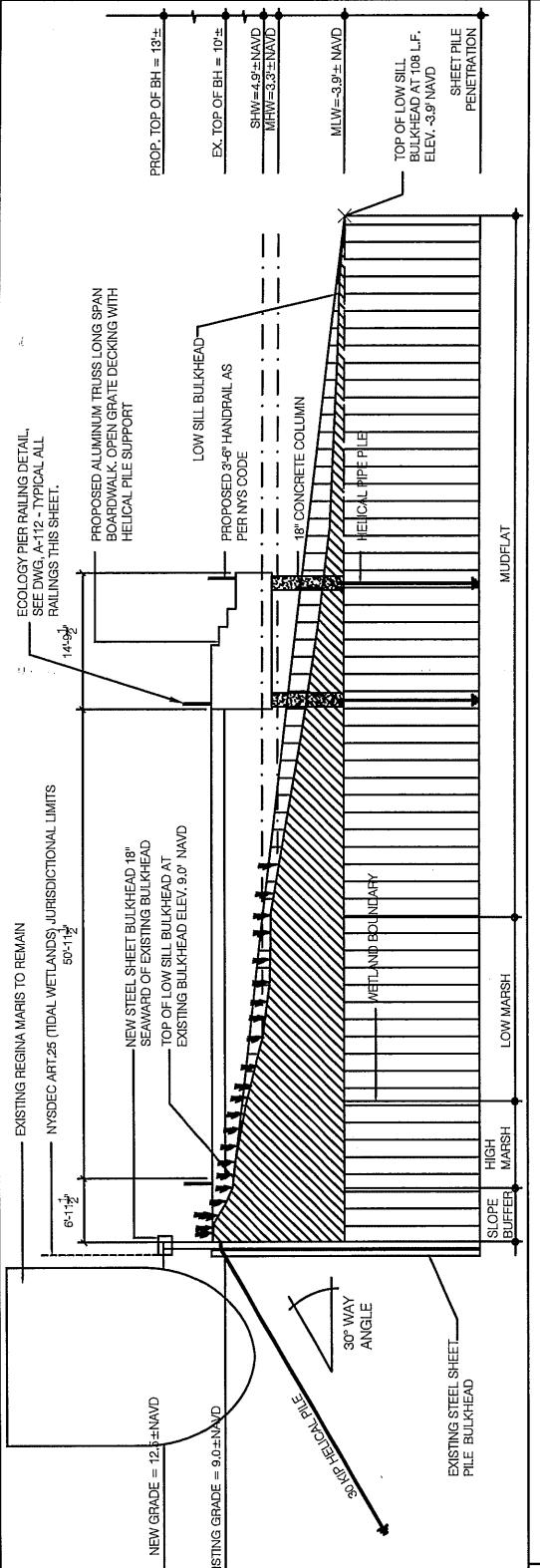
## LAND

REFER TO SHEETS A-101, A-104 AND A-107 FOR PLAN VIEW OF PROPOSED STEEL BULKHEAD TO BE INSTALLED 18" SEAWARD OF EXISTING BULKHEAD

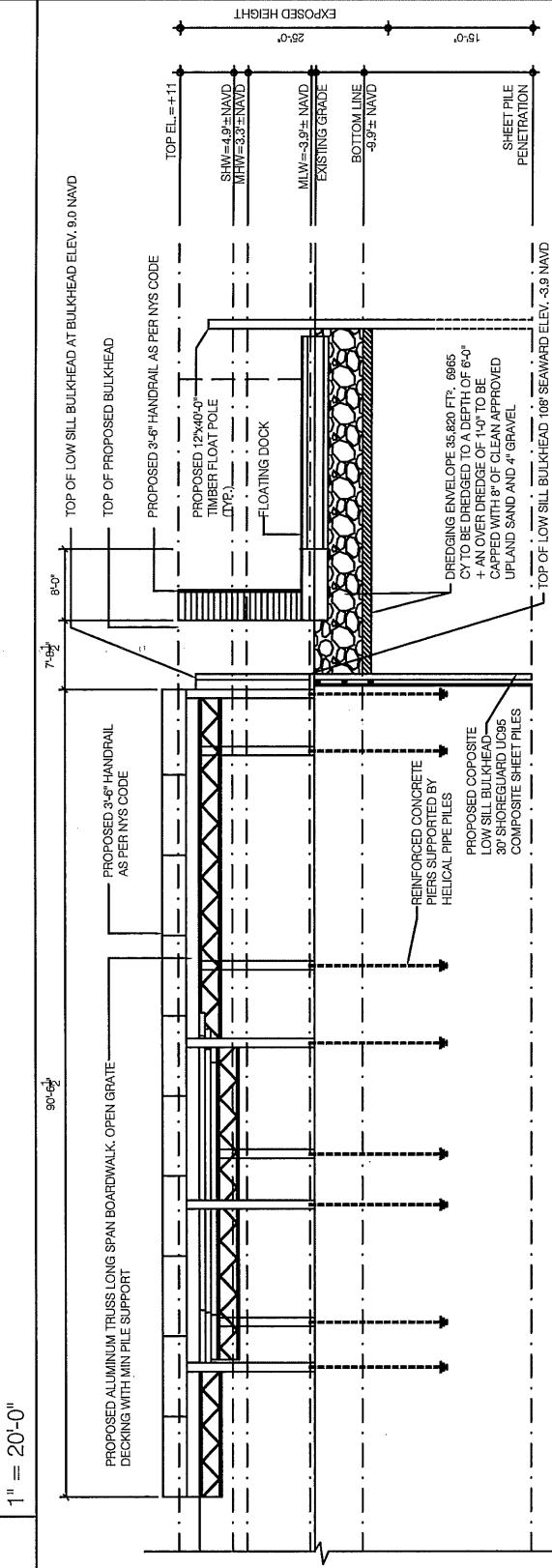
1	BULKHEAD WITHIN 18" SECTION
	1" = 10'-0"

**NOTES:**

1. ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9.9' NAVD, AND OVERDREDGE DEPTH OF 1' RESULTS IN A TOTAL DREDGE DEPTH OF -10.9' NAVD.
2. ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE CAPTAIN'S COVE SITE MANAGEMENT PLAN.
3. ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK



ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTION



ECOLOGICA PIER AND SMALL VESSEL MARINA SECTION

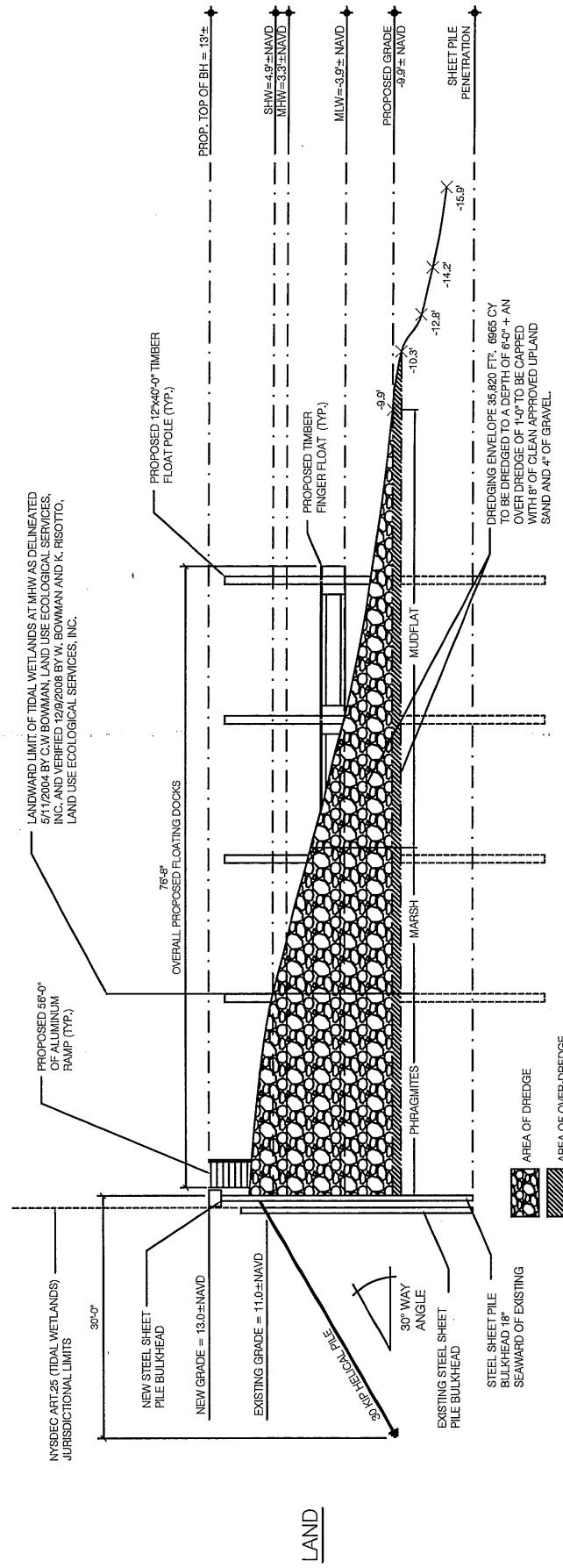
- 1 -

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAI
D	02/09/17	PERMIT PLANS	JAI
E	02/13/17	PERMIT PLANS	JAI
F	03/01/17	PERMIT PLANS	NT
G	03/02/17	PERMIT PLANS	NT
H	05/22/17	PERMIT PLANS	NT
I	07/19/17	USACE COMMENTS	NT

24|43

**NOTES:**

1. ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9.9' NAVD, AND OVERDREDGE DEPTH OF 1' RESULTS IN A TOTAL DREDGE DEPTH OF -10.9' NAVD. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
2. EXCEPT IN CAPTAINS COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MHW) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO. LAND USE ECOLOGICAL SERVICES, INC. IN CAPTAINS COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
3. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.
4. SEE G-00 FOR DREDGING SPOILS, STAGING AND DEWATERING AREAS.
5. ALL CAPPING AND FILL SHALL BE CLEAN UPLAND SAND APPROVED MATERIALS.
6. TURBIDITY CURTAIN TYPE II 45 MILES THICK 18 OZ WEIGHT SHALL COMPLETELY ENCAPSULATED EACH AREA OF WORK PHASE ALLOWING FOR VESSEL TRAFFIC. EACH END WILL BE SECURED TO A POINT LANDWARD AND WILL ALLOW FOR A 20% GREATER LENGTH AND HEIGHT FOR CURRENT TIDE RISE. FLOTATION BOOM SHALL BE COLORED IN INTERNATIONAL ORANGE OR BRIGHT YELLOW. LEAD WEIGHT SHALL ANCHOR CURTAIN TO BOTTOM.
7. ALL DREDGING TO BE PERFORMED USING AN ENVIRONMENTAL DREDGE BUCKET.
8. AAE SHALL BE RESPONSIBLE FOR ALL ECR INSPECTIONS TO MANAGE PROPER PERFORMANCE.
9. ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE CAPTAINS COVE SITE MANAGEMENT PLAN.
10. ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.



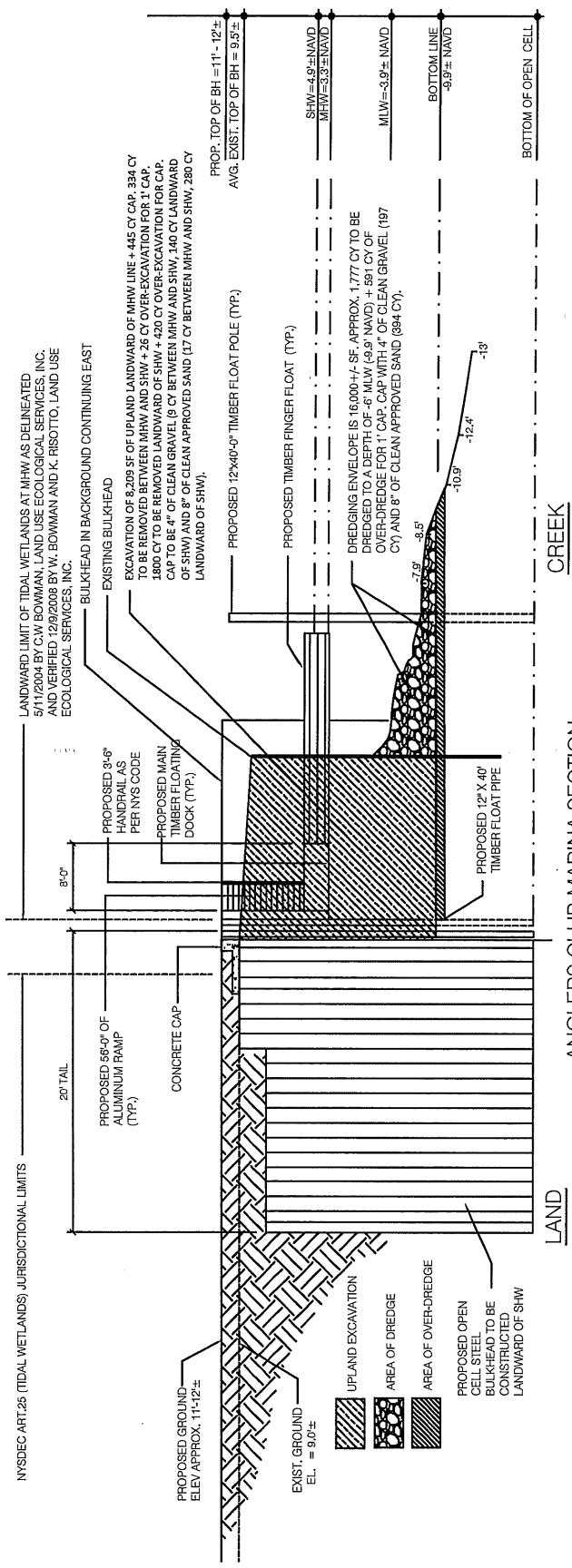
1 ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTION  
1" = 20'-0"

ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTION

SUBMITTALS	REV DATE			DESCRIPTION	BY	SHEET NUMBER
	C 01/17/17	P	E			
A-204	C 01/17/17	P	E	PERMIT PLANS	JAJ	
	D 02/09/17	P	E	PERMIT PLANS	JAJ	
	E 02/13/17	P	E	PERMIT PLANS	JAJ	
	F 03/01/17	P	E	PERMIT PLANS	NT	
	G 03/02/17	P	E	PERMIT PLANS	NT	
	H 05/22/17	P	E	PERMIT PLANS	NT	
	I 07/19/17	P	E	USACE COMMENTS	NT	

**NOTES:**

1. ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9' NAVD, AND OVERDREDGE DEPTH OF 1' RESULTS IN A TOTAL DREDGE DEPTH OF -10'-0" NAVD.
2. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
3. EXCEPT IN CAPTAINS COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MHW) AS DELINEATED 5/1/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC. IN CAPTAINS COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
4. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.
5. SEE G-000 FOR DREDGING SPOILS, STAGING AND Dewatering AREAS.
6. ALL CAPPING AND FILL SHALL BE CLEAN UPLAND SAND APPROVED MATERIALS.
7. TURBIDITY CURTAIN TYPE II 45 MILES THICK 18 OZ WEIGHT SHALL COMPLETELY ENCAPSULATED EACH AREA OF WORK PHASE ALLOWING FOR VESSEL TRAFFIC. EACH END WILL BE SECURED TO A POINT LANDWARD AND WILL ALLOW FOR A 20% GREATER LENGTH AND HEIGHT FOR CURRENT TIDE RISE. FLOTATION BOOM SHALL BE COLORED IN INTERNATIONAL ORANGE OR BRIGHT YELLOW. LEAD WEIGHT SHALL ANCHOR CURTAIN TO BOTTOM.
8. ALL DREDGING TO BE PERFORMED USING AN ENVIRONMENTAL DREDGE BUCKET.
9. AAE SHALL BE RESPONSIBLE FOR ALL ECR INSPECTIONS TO MANAGE PROPER PERFORMANCE.
10. ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE GLADSKY SITE MANAGEMENT PLAN.
11. ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.



REV.	DATE	DESCRIPTION	SUBMITTALS	BY	SHEET NUMBER
C	01/17/17	PERMIT PLANS		JAW	A-205
D	02/09/17	PERMIT PLANS		JAW	
E	02/13/17	PERMIT PLANS		JAW	
F	03/01/17	PERMIT PLANS		NT	
G	03/02/17	PERMIT PLANS		NT	
H	05/22/17	PERMIT PLANS		NT	
I	07/19/17	USACE COMMENTS		NT	

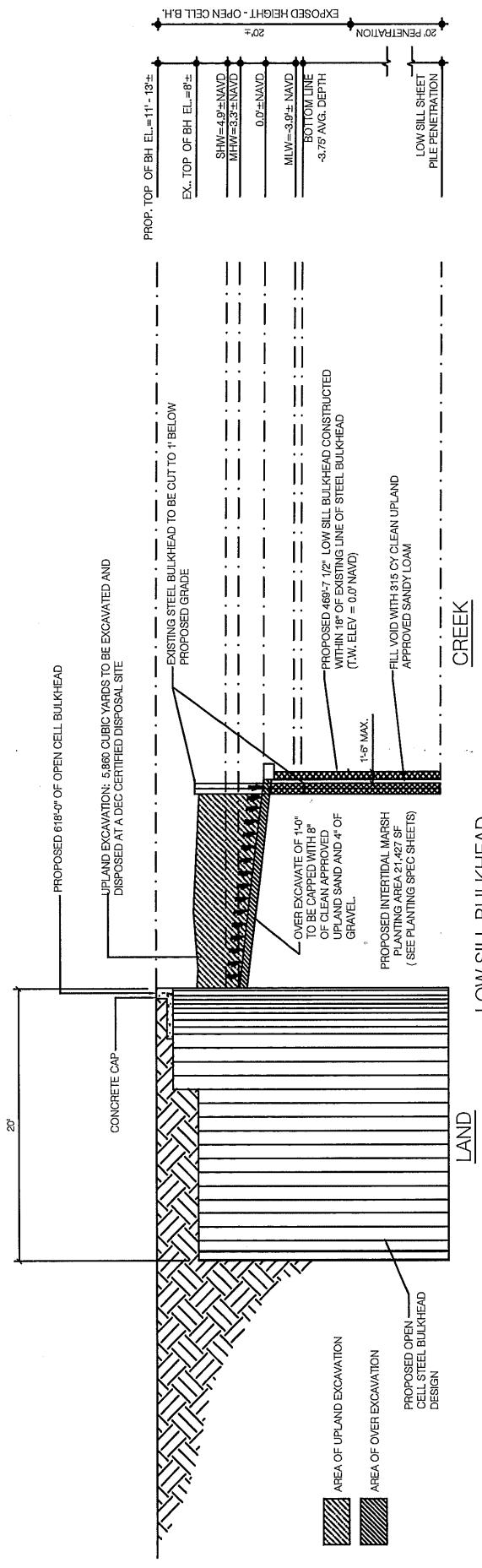
**AAE**  
ADVANCED AMERICAN ENGINEERING  
445 BROADFOOT ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE - 631.930.5337

NAN-2015-00962-EHA | 26 | 43 | 07/19/17 USACE COMMENTS | NT | SHEET 27 OF 50

## NOTES:

1. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
2. EXCEPT IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MHW) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC. IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
3. SEE G-000 FOR DREDGING SPOILS, STAGING AND DEMATERIALIZATION AREAS.
4. ALL CAPPING AND FILL SHALL BE CLEAN UPLAND SAND APPROVED MATERIALS.
5. TURBIDITY CURTAIN TYPE II-5 MILES THICK 18 OZ WEIGHT SHALL COMPLETELY ENCAPSULATE EACH AREA OF WORK PHASE ALLOWING FOR VESSEL TRAFFIC. EACH END WILL BE SECURED TO A POINT LANDWARD AND WILL ALLOW FOR A 20% GREATER LENGTH AND HEIGHT FOR CURRENT TIDE RISE. FLOTATION BOOM SHALL BE COLORED IN INTERNATIONAL ORANGE OR BRIGHT YELLOW. LEAD WEIGHT SHALL ANCHOR CURTAIN TO BOTTOM.
6. ALL DREDGING TO BE PERFORMED USING AN ENVIRONMENTAL DREDGE BUCKET.
7. AAE SHALL BE RESPONSIBLE FOR ALL ECR INSPECTIONS TO MANAGE PROPER PERFORMANCE.

- NOTES:
1. ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DOXEY AND LI TUNGSTEN SITE MANAGEMENT PLANS.
  2. ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.



1	LOW SILL BULKHEAD	SUBMITTALS		SHEET NUMBER
		REV	DATE	
1	1" = 20'-0"	C	01/17/17	PERMIT PLANS
		D	02/09/17	PERMIT PLANS
		E	02/13/17	PERMIT PLANS
		F	03/01/17	PERMIT PLANS
		G	03/02/17	PERMIT PLANS
		H	05/22/17	PERMIT PLANS
		I	07/19/17	USACE COMMENTS

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445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE - 631.930.5337

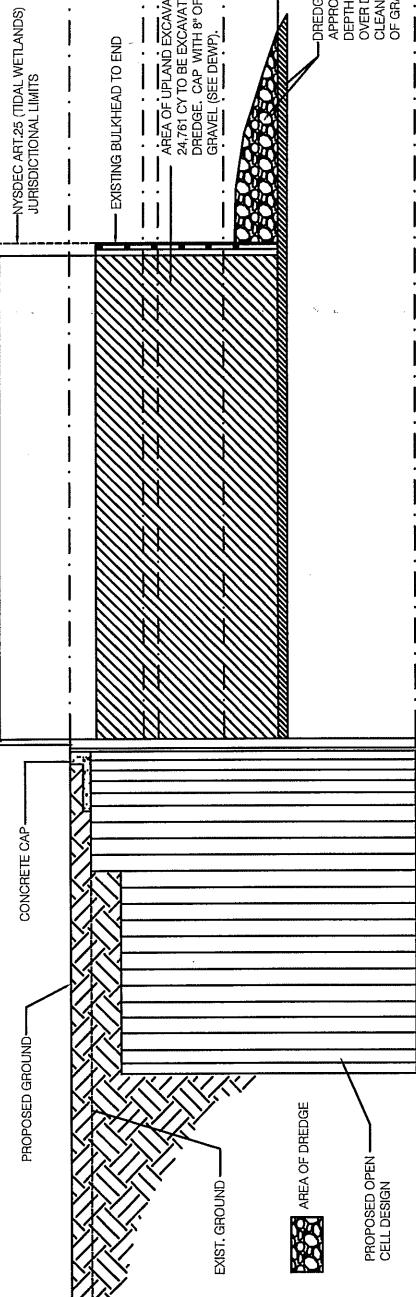
**GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT**  
**RXR GLEN ISLE PARTNERS LLC**  
**WATER FRONT PERMITTING PLANS**  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

**A-206**  
SHEET 28 OF 50

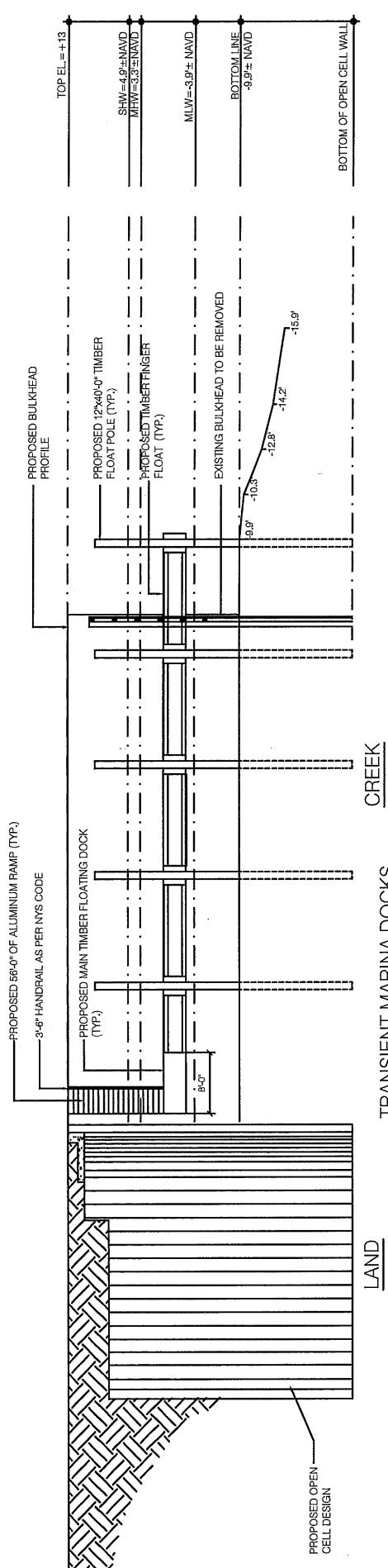
**NOTES:**

**NOTES:**

1. ELEVATIONS ARE REFERENCED TO NAVD 1988 DATUM. IN DREDGE AREAS, TARGET DEPTH OF -6' MLW IS EQUIVALENT TO -9.9' NAVD, AND OVERDREDGE DEPTH OF 11' RESULTS IN A TOTAL DREDGE DEPTH OF -10.9' NAVD.
2. ALL WORK LANDWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE LT WSTNGN SITE MANAGEMENT PLAN.
3. ALL WORK SEAWARD OF THE MEAN HIGH TIDE LINE MUST BE COMPLETED UNDER THE DREDGING & EXCAVATION WORK PLAN.



<u>LAND</u>		TRANSIENT MARINA DREDGING
1	TRANSIENT MARINA DREDGING	1" = 20"-0"



2	TRANSIENT MARINA DOCKS
	1" = 20'-0"

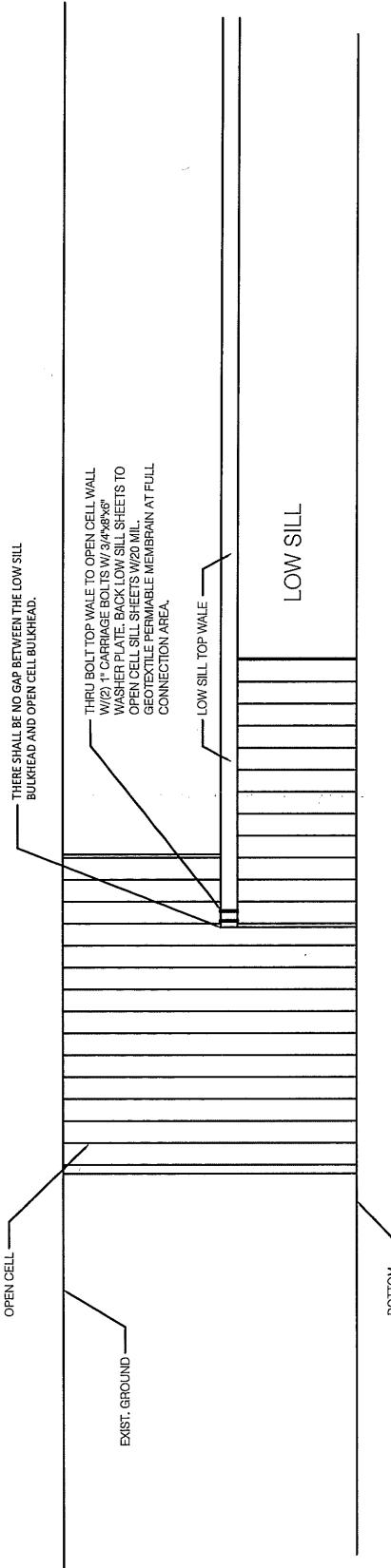


GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
**RXR GLEN ISLE PARTNERS LLC**  
WATER FRONT PERMITTING PLANS

CITY OF GLENDALE

A-207  
SHEET NUMBER

SHEET 29 OF 50



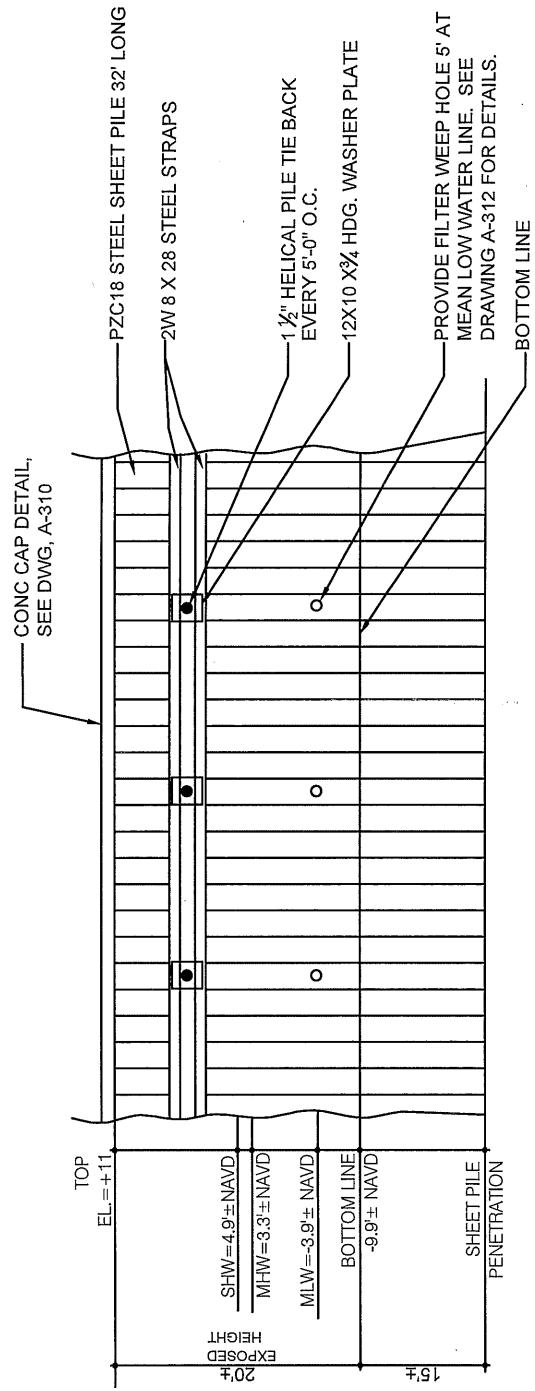
LOW SILL CONNECTION  
TO OPEN CELL WALL  
DETAIL  
SEE LOCATION ON A-107

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAJ
D	02/08/17	PERMIT PLANS	JAJ
E	02/13/17	PERMIT PLANS	JAJ
F	03/01/17	PERMIT PLANS	NT
G	03/02/17	PERMIT PLANS	NT
H	05/22/17	PERMIT PLANS	NT
I	07/19/17	USAGE COMMENTS	NT

SHEET NUMBER  
**A-208**  
SHEET 30 OF 50



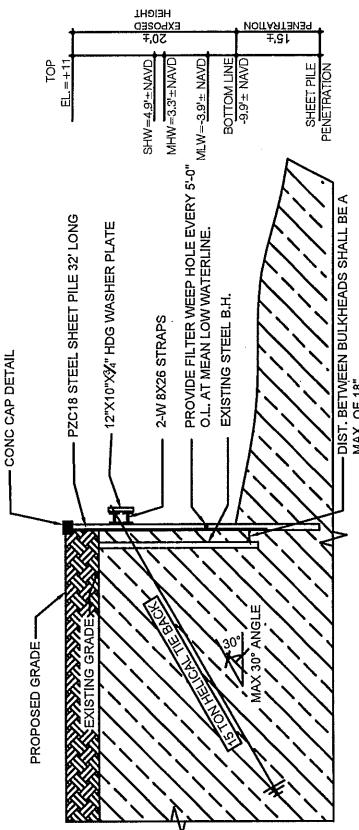
## TYP. ELEVATION FOR STEEL BULKHEAD RECONSTRUCTION WITHIN 18" OF EXISTING

1	TYP. ELEVATION FOR STEEL BULKHEAD RECONSTRUCTION WITHIN 18" OF EXISTING		SUBMITTALS				SHEET NUMBER
			REV	DATE	DESCRIPTION	BY	
	1" = 20'		C	01/17/17	PERMIT PLANS	J.A.	A-300
			D	02/09/17	PERMIT PLANS	J.A.	
			E	02/13/17	PERMIT PLANS	J.A.	
			F	03/01/17	PERMIT PLANS	J.A.	
			G	03/02/17	PERMIT PLANS	J.A.	
			H	05/22/17	PERMIT PLANS	J.A.	
			I	07/19/17	USAGE COMMENTS	NT	

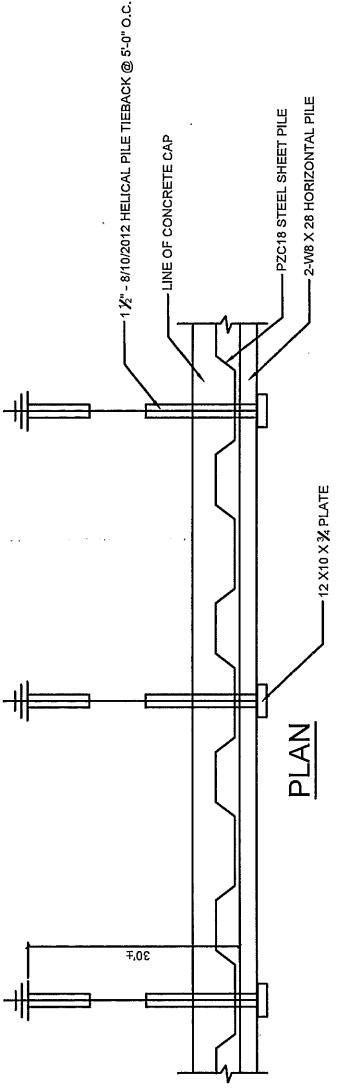
**AAE**  
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445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE: 631.930.5337

SHEET 31 OF 50

NOTE: ALL VOIDS BETWEEN EXISTING  
STEEL BULKHEAD AND NEW STEEL  
BULKHEAD SHALL BE FILLED W/NYS DEC  
APPROVED CLEAN GRANULAR FILL.

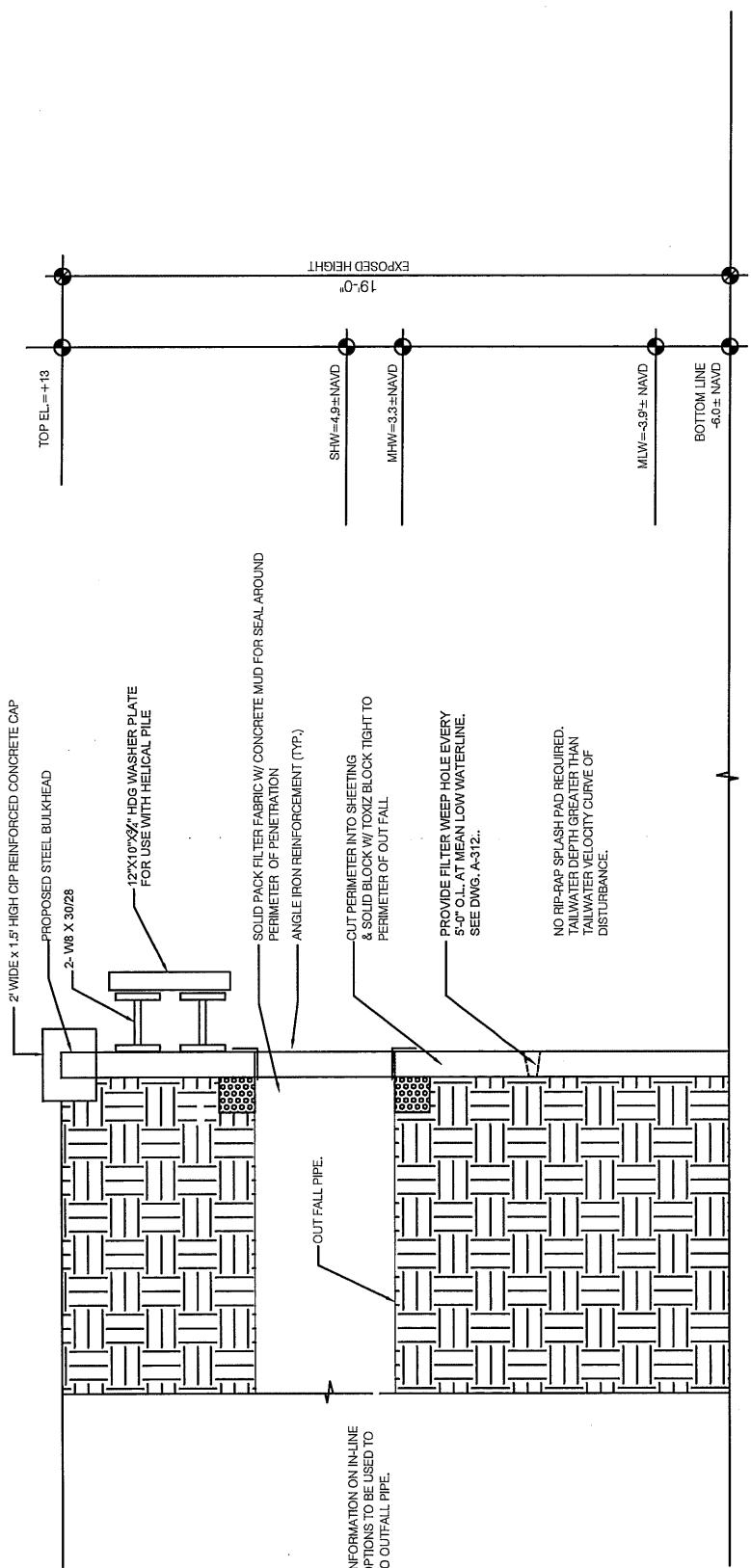


### TYP. DETAIL



1	TYP. ELEVATION FOR STEEL BULKHEAD RECONSTRUCTION WITHIN 18" OF EXISTING
	1"=30'

REV.	DATE	DESCRIPTION	BY	SHEET NUMBER
C	01/17/17	PERMIT PLANS	JAV	A-301
D	02/09/17	PERMIT PLANS	JAV	
E	02/13/17	PERMIT PLANS	JAV	
F	03/01/17	PERMIT PLANS	NT	
G	03/02/17	PERMIT PLANS	NT	
H	05/22/17	PERMIT PLANS	NT	
I	07/19/17	USAGE COMMENTS	NT	SHEET 32 OF 50



1 OUTFALL DETAIL - STEEL BULKHEAD

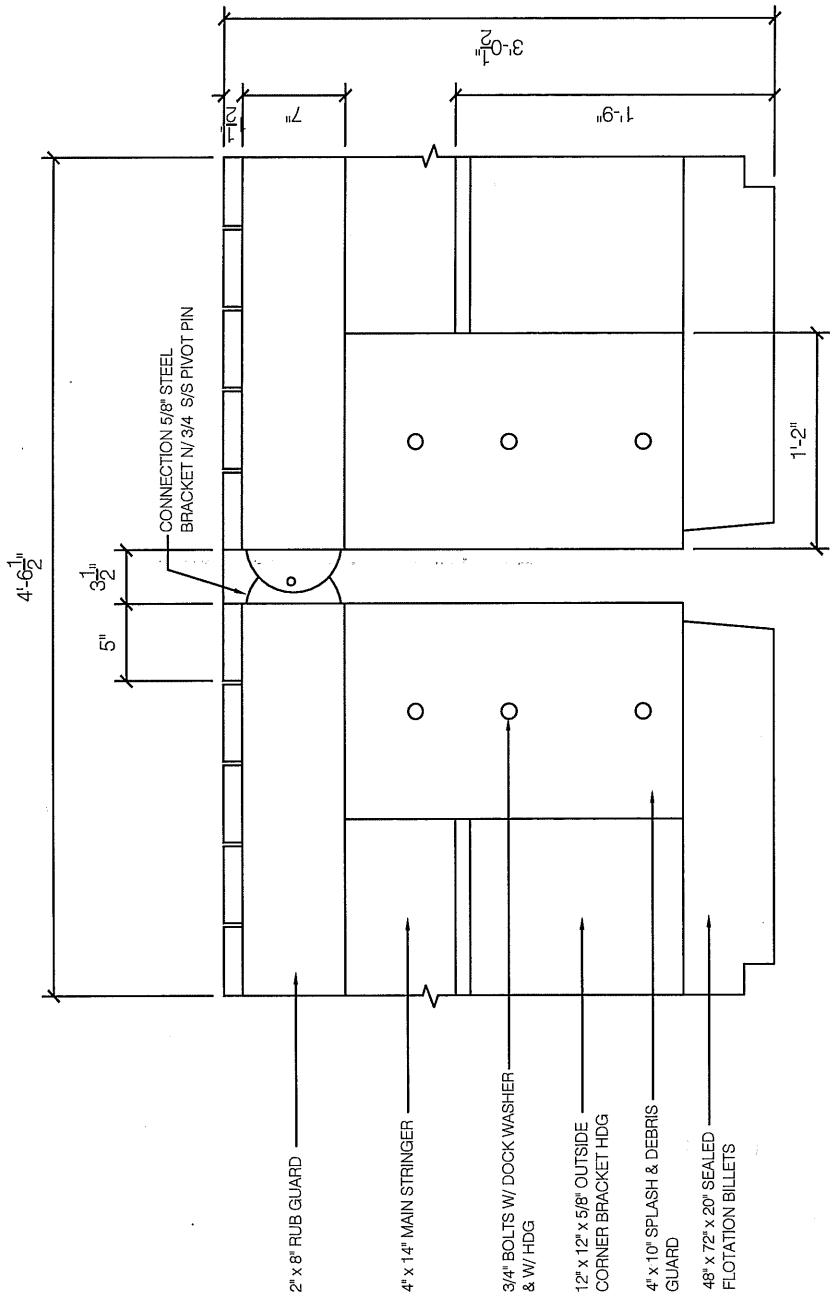
1" = 5'

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
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NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

A-302  
SHEET 33 OF 50

		SUBMITTALS	REV.	DATE	DESCRIPTION	BY	SHEET NUMBER
C	01/17/17	PERMIT PLANS				JAH	
D	02/09/17	PERMIT PLANS				JAH	
E	02/13/17	PERMIT PLANS				JAH	
F	03/01/17	PERMIT PLANS				NT	
G	03/02/17	PERMIT PLANS				NT	
H	05/22/17	PERMIT PLANS				NT	
I	07/19/17	USAGE COMMENTS				NT	



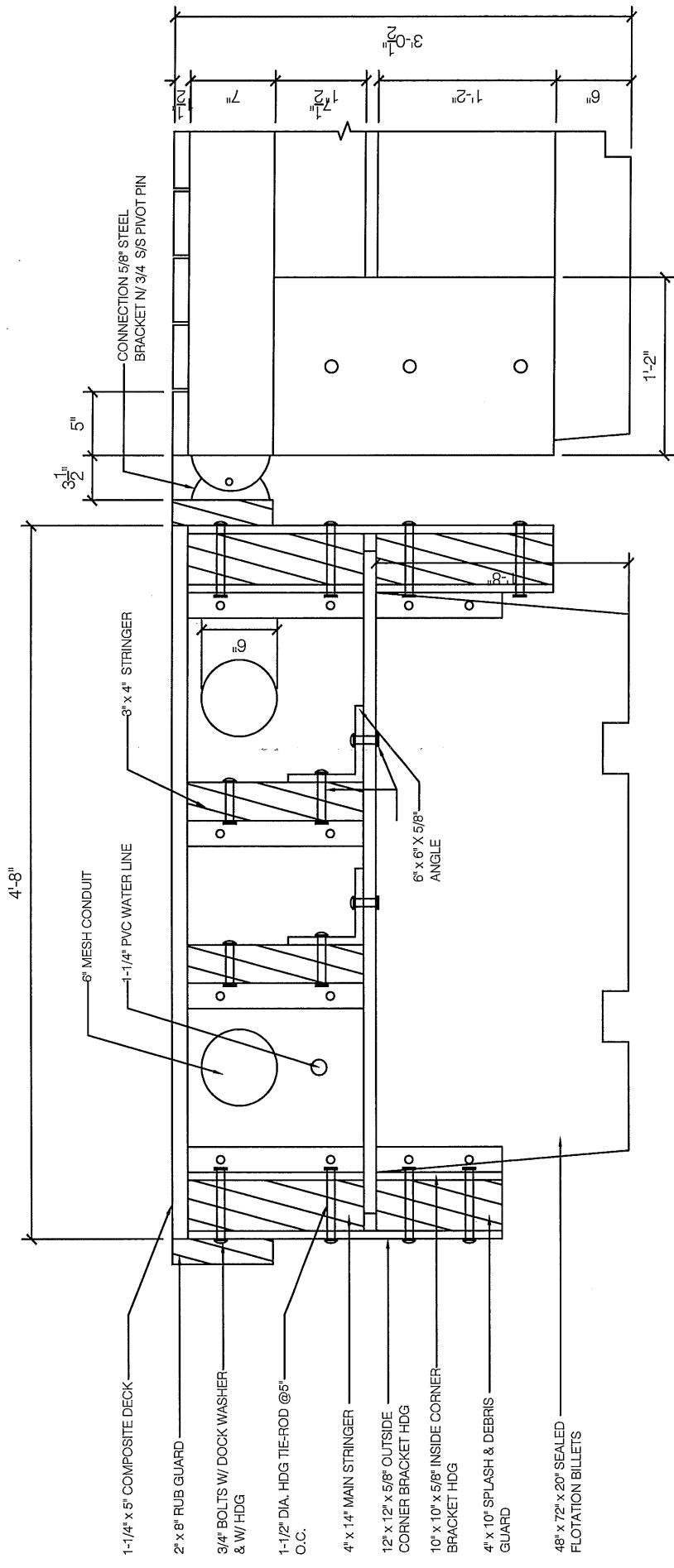
1 TYPICAL PROPOSED TIMBER FLOAT CONNECTION DETAIL

1" = 1'-0"

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SUBMITTALS		REV.	DATE	DESCRIPTION	BY	SHEET NUMBER
C 01/17/17	PERMIT PLANS	JAJ				A-303
D 02/09/17	PERMIT PLANS	JAJ				
E 02/13/17	PERMIT PLANS	JAJ				
F 03/01/17	PERMIT PLANS	JAJ				
G 03/02/17	PERMIT PLANS	JAJ				
H 05/22/17	PERMIT PLANS	NT				
I 07/19/17	USAGE COMMENTS	NT				

SHEET 34 OF 50



1 TYPICAL PROPOSED FLOATING DOCK PERPENDICULAR CONNECTION JOINT

REV	DATE	SUBMITTALS		SHEET NUMBER
		DESCRIPTION	BY	
C	01/17/17	PERMIT PLANS	JAI	A-304
D	02/09/17	PERMIT PLANS	JAI	
E	02/13/17	PERMIT PLANS	JAI	
F	03/01/17	PERMIT PLANS	NT	
G	03/02/17	PERMIT PLANS	NT	
H	05/22/17	PERMIT PLANS	NT	
I	07/19/17	USACE COMMENTS	NT	

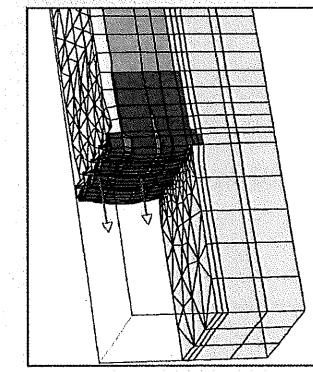
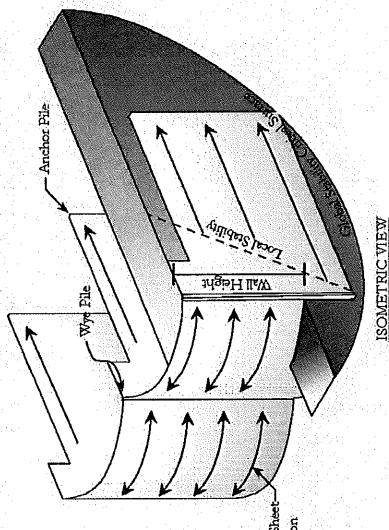
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MELVILLE, NEW YORK 11747  
PHONE - 631.936.5337

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

SHEET 35 OF 50

## OPEN CELL SHEET PILE™ TECHNOLOGY

The OPEN CELL™ sheet piles are vertically arranged driven flat sheet pile-composed structures that act as a horizontally-sed membrane to retain soil. The OPEN CELL bulkhead features a vertical flat sheet pile anchor wall (ail wall) to restrain a curved flat sheet pile anch face.



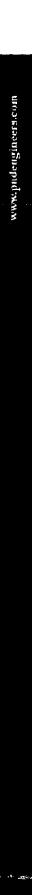
### STRUCTURAL STABILITY & MODELING

At left and above are models representing analysis of an OPEN CELL structure. Rigorous geotechnical analysis – performed on every structure we design – can include multiple methods involving both classic analysis and numerical methods that have provided consensus of results.

### PATENTS:

PND has spent years testing, observing, and refining the OPEN CELL system and holds all related information to be proprietary. The OPEN CELL system is patented holding U.S. Patent No. 6,715,964 B2, U.S. Patent No. 7,016,441 B2, U.S. Patent No. 7,486,40 B2, and U.S. Patent Application No. 12/879,957.

### OPEN CELL STEEL BULKHEAD DATA



N.T.S.  
1

OPEN CELL STEEL BULKHEAD DATA

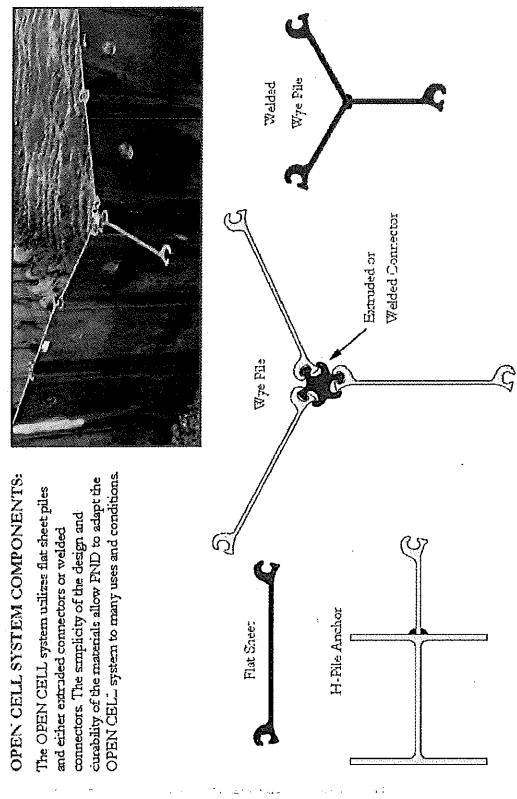
**AAE**  
ADVANCED AMERICAN ENGINEERING  
445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE - 631.930.5537

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATER FRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

**A-305**

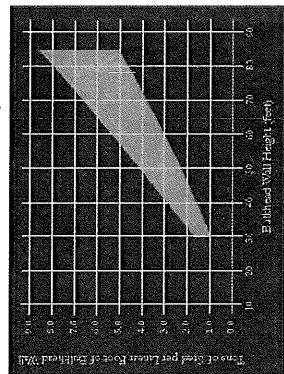
SHEET NUMBER  
SHEET 36 OF 50

**OPEN CELL SYSTEM COMPONENTS:**  
The OPEN CELL system utilizes flat sheet piles and either extruded connectors or welded connections. The simplicity of the design and availability of the materials allow PND to adapt the OPEN CELL system to many uses and conditions.

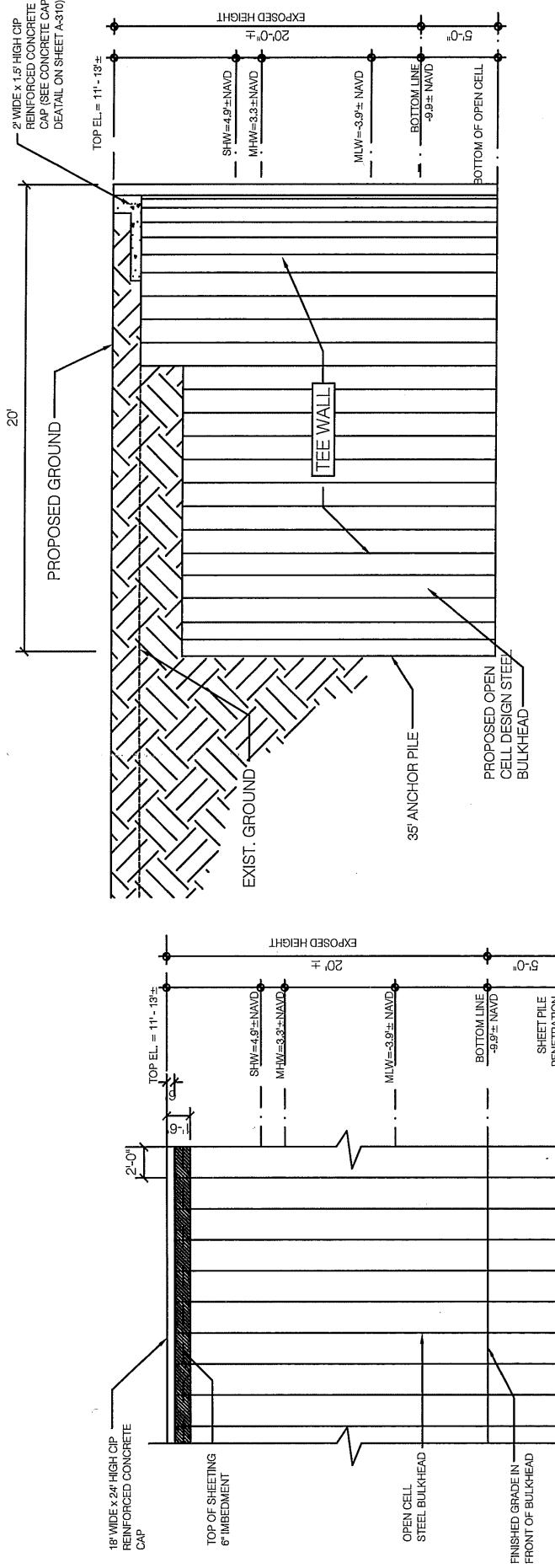


### STEEL QUANTITY ESTIMATES:

The graph below represents estimated steel quantity per foot of bulkhead per linear foot. Wall height is measured from ground- or mud-line to top of a driven sheet pile. (See isometric view on opposite page.)



www.pndengineering.com



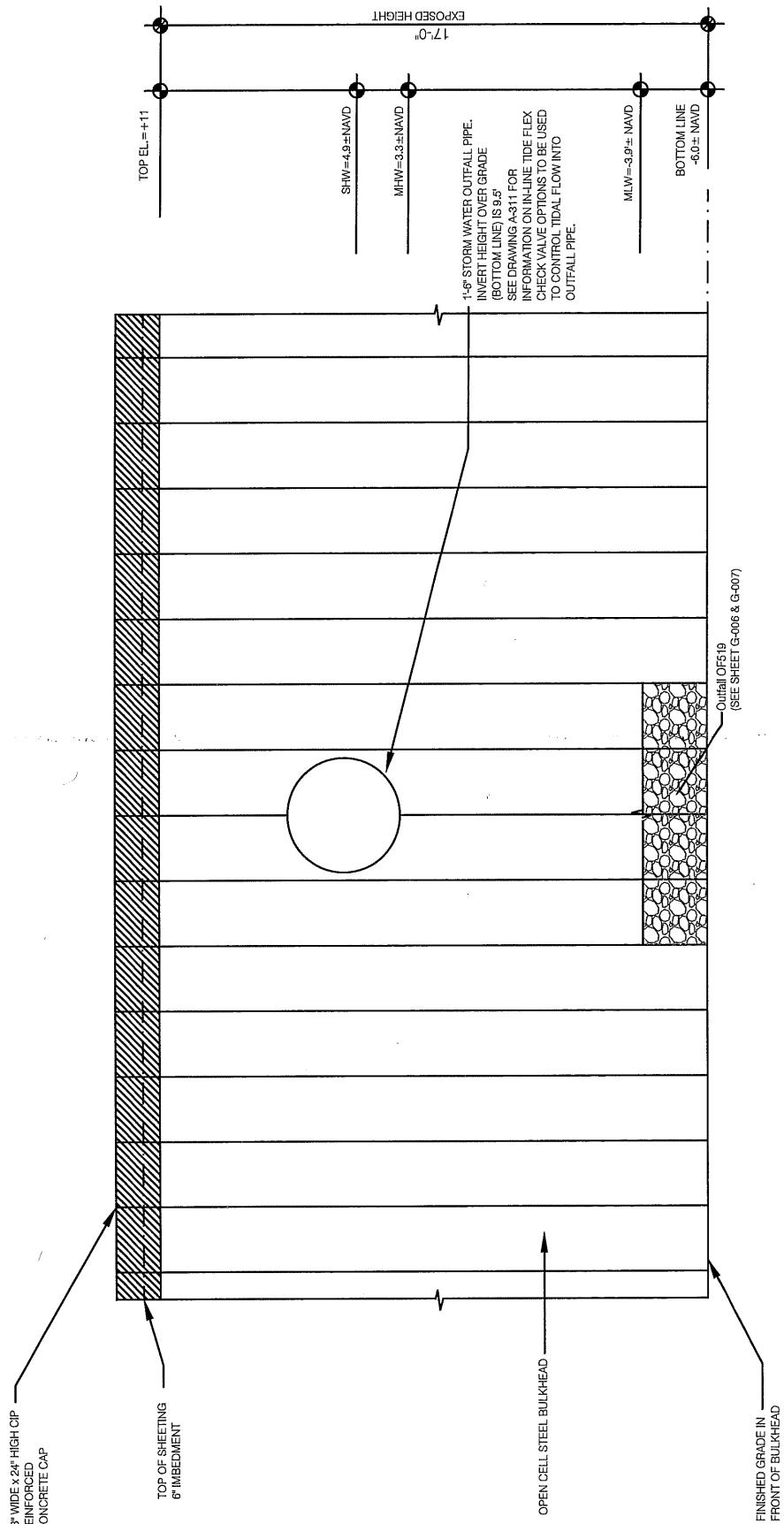
1 OPEN CELL STEEL BULKHEAD ELEVATION & CROSS SECTION (ANGLERS CLUB, LOW-SILL WETLANDS, TRANSIENT MARINA)

			SUBMITTALS	SHEET NUMBER
REV.	DATE	DESCRIPTION	BY	
C	01/17/17	PERMIT PLANS	JAJ	A-306
D	02/09/17	PERMIT PLANS	JAJ	
E	02/13/17	PERMIT PLANS	JAJ	
F	03/01/17	PERMIT PLANS	NT	
G	03/02/17	PERMIT PLANS	NT	
H	05/22/17	PERMIT PLANS	NT	
I	07/19/17	USAGE COMMENTS	NT	

**AAT**  
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445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE: 631.230.5537

NAN-2015-00962-EHA 36/43

SHEET 37 OF 50



1 OUTFALL ELEVATION - OPEN CELL STEEL BULKHEAD

1" = 5'



GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATERFRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK  
NAN-2015-00962-EHA

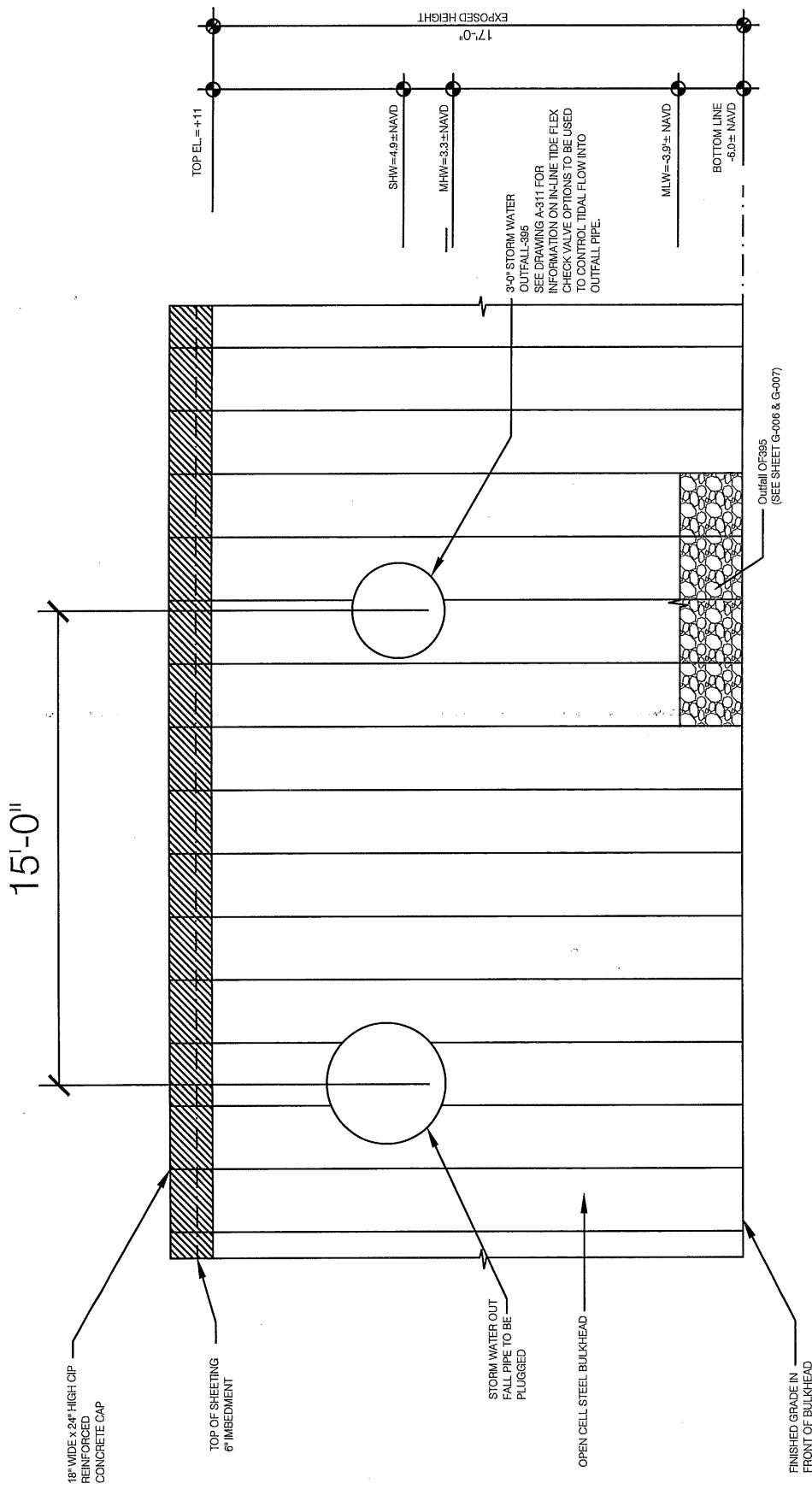
A-307

SHEET NUMBER

SHEET 38 OF 50

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAJ
D	02/09/17	PERMIT PLANS	JAJ
E	02/13/17	PERMIT PLANS	JAJ
F	03/01/17	PERMIT PLANS	NT
G	03/02/17	PERMIT PLANS	NT
H	05/22/17	PERMIT PLANS	NT
I	07/19/17	USACE COMMENTS	NT

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
C	01/17/17	PERMIT PLANS	JAJ
D	02/09/17	PERMIT PLANS	JAJ
E	02/13/17	PERMIT PLANS	JAJ
F	03/01/17	PERMIT PLANS	NT
G	03/02/17	PERMIT PLANS	NT
H	05/22/17	PERMIT PLANS	NT
I	07/19/17	USACE COMMENTS	NT



1 OUTFALL ELEVATION - OPEN CELL STEEL BULKHEAD

1" = 5'

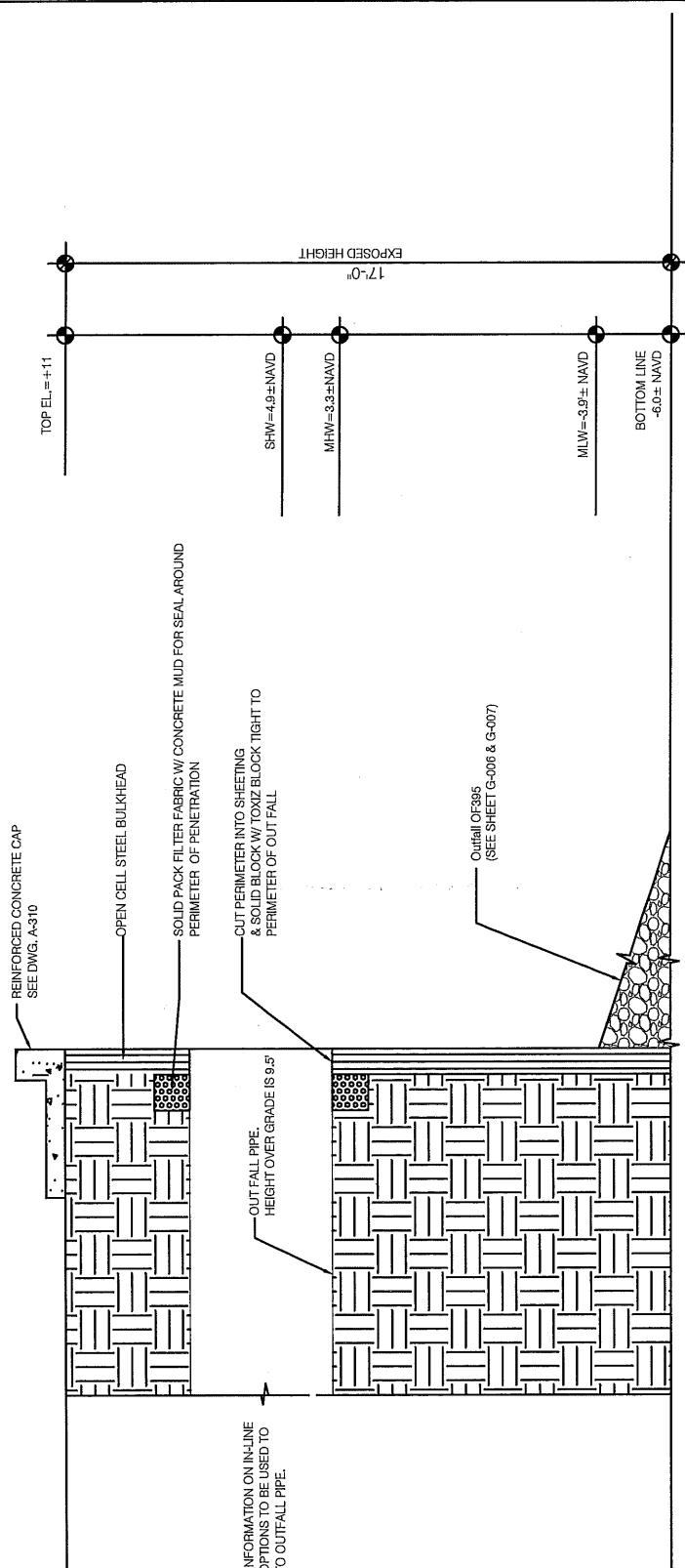
**AAC**  
ADVANCED AMERICAN ENGINEERING  
445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE - 631.930.5537

SUBMITTALS		SUBMITTALS		SHEET NUMBER
REV.	DATE	DESCRIPTION	BY	
C	01/17/17	PERMIT PLANS	JAA	A-308
D	02/09/17	PERMIT PLANS	JAA	
E	02/13/17	PERMIT PLANS	JAA	
F	03/01/17	PERMIT PLANS	NT	
G	03/02/17	PERMIT PLANS	NT	
H	05/22/17	PERMIT PLANS	NT	
I	07/19/17	USAGE COMMENTS	NT	

GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
RXR GLEN ISLE PARTNERS LLC  
WATERFRONT PERMITTING PLANS  
CITY OF GLEN COVE  
NASSAU COUNTY, NEW YORK NAN-2015-00962-EHA

38 | 43

SHEET 39 OF 50



1 OUTFALL DETAIL - OPEN CELL STEEL BULKHEAD SECTION

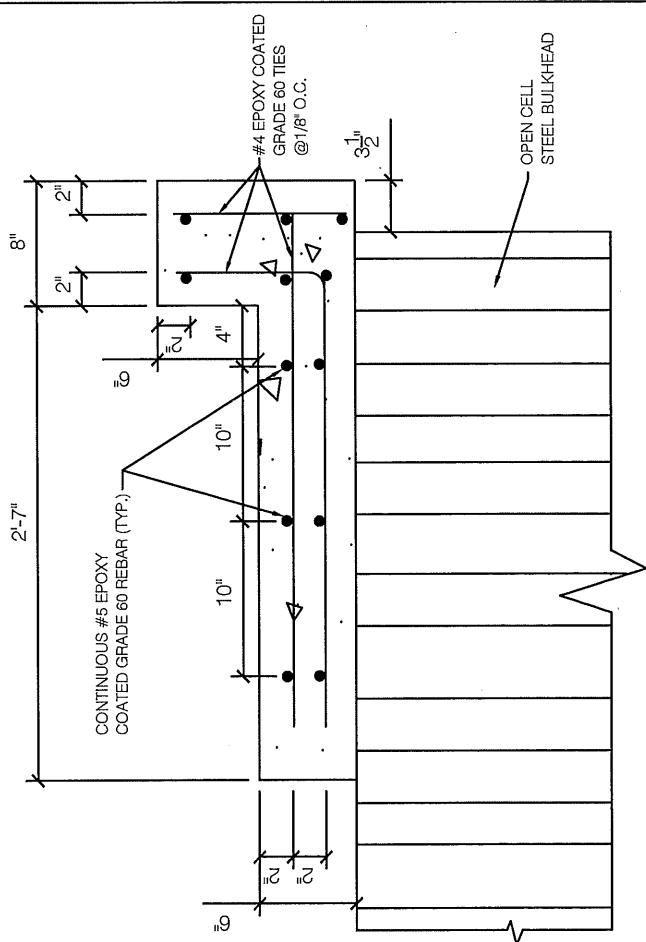
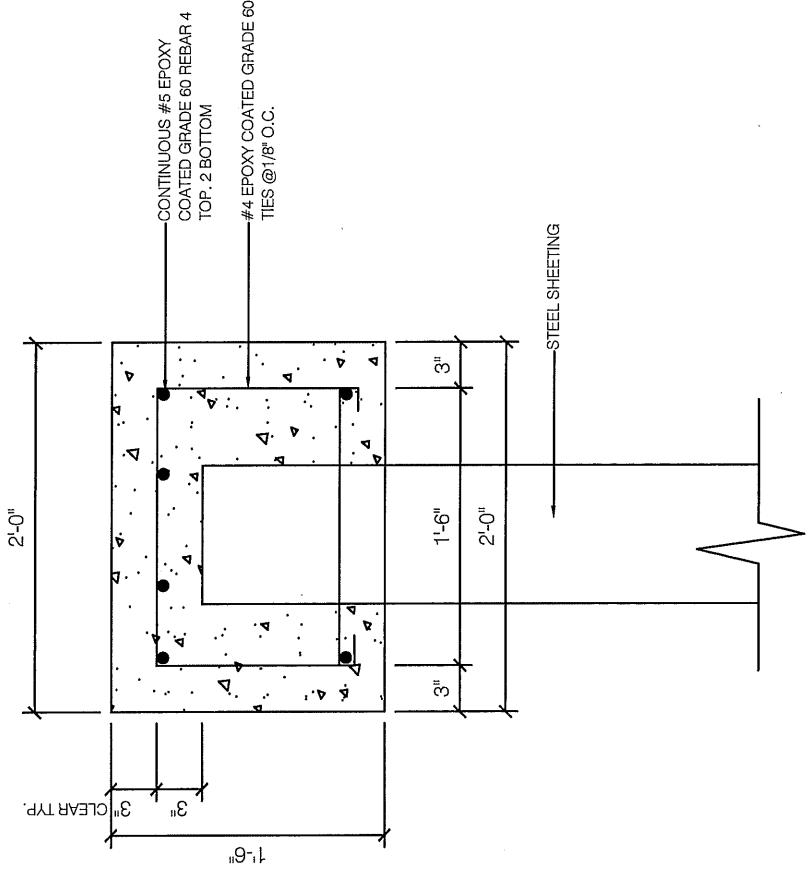
1" = 5'

**AAC**  
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445 BROADHOLLOW ROAD, SUITE 25  
MELVILLE, NEW YORK 11747  
PHONE: 631.930.5537

SUBMITTALS				SHEET NUMBER
REV.	DATE	DESCRIPTION	BY	
C	01/17/17	PERMIT PLANS	JAJ	
D	02/08/17	PERMIT PLANS	JAJ	
E	02/13/17	PERMIT PLANS	JAJ	
F	03/01/17	PERMIT PLANS	NT	
G	05/02/17	PERMIT PLANS	NT	
H	05/22/17	PERMIT PLANS	NT	
I	07/19/17	USACE COMMENTS	NT	

**A-309**

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GENERAL NOTES:  
 1. ALL STEEL TO BE HOT-DIP-GALVANIZED.  
 2. CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AND MAXIMUM  
 WATER/CEMENT RATION OF 0.4.  
 3. CONCRETE TO BE VIBRATED DURING PLACEMENT TO PREVENT HONEYCOMBS.  
 3. STEEL REBAR TO BE GRADE 60 AND TO HAVE A COVER OF 3 INCHES.

1	OPEN CELL CONCRETE CAP	2	CONCRETE CAP DETAIL
	1" = 1'-0"		1" = 1'-0"

**AAE**  
 ADVANCED AMERICAN ENGINEERING PLLC  
 445 BROADHOLLOW ROAD, SUITE 25  
 MELVILLE, NEW YORK 11747  
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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT  
 RXR GLEN ISLE PARTNERS LLC  
 WATER FRONT PERMITTING PLANS  
 CITY OF GLEN COVE  
 NASSAU COUNTY, NEW YORK NAN-2015-00962-EHA 40/43

SHEET NUMBER	REV.	DATE	DESCRIPTION	BY
A-310	C	01/17/17	PERMIT PLANS	JAJ
	D	02/08/17	PERMIT PLANS	JAJ
	E	02/13/17	PERMIT PLANS	JAJ
	F	03/01/17	PERMIT PLANS	JAJ
	G	03/02/17	PERMIT PLANS	JAJ
	H	05/22/17	PERMIT PLANS	NT
	I	07/19/17	USAGE COMMENTS	NT

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