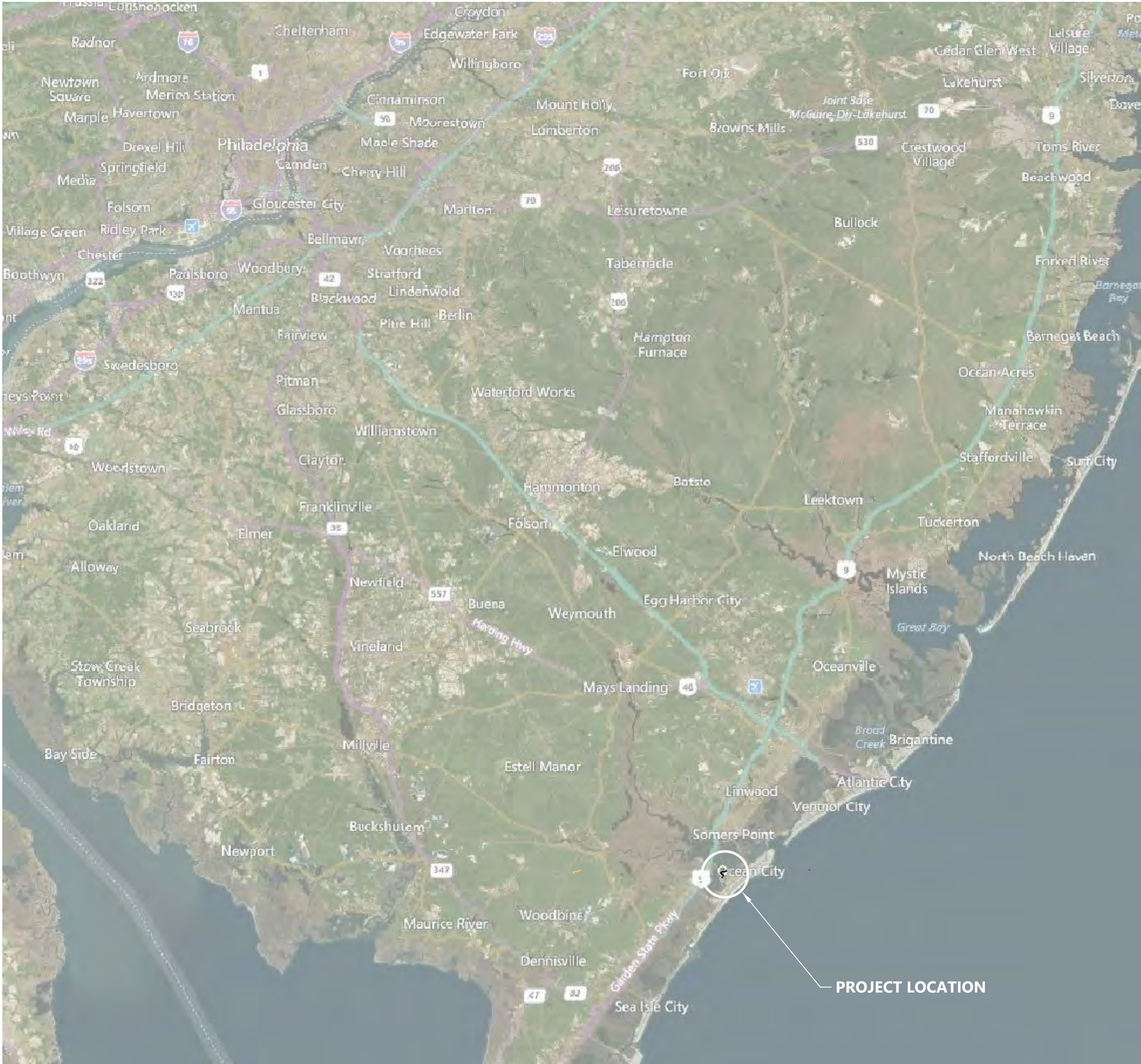
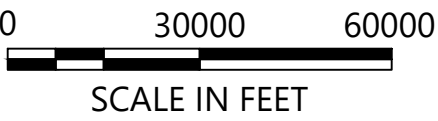


# SHOOTING ISLAND RESTORATION: LIVING SHORELINE AND HABITAT CONSTRUCTION

CITY OF OCEAN CITY, NEW JERSEY CONTRACT NO. 18-32  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT ID 44068





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ONE INCH  
= 1000 FEET  
AT FULL SIZE. IF NOT ONE  
INCH SCALE ACCORDINGLY

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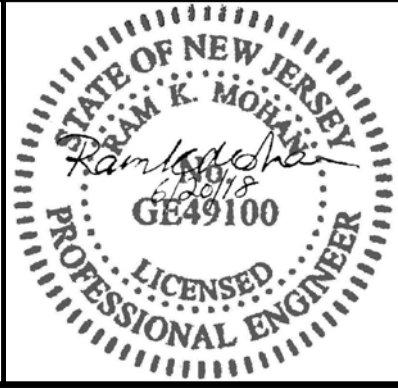
DESIGNED BY: A. CANNON  
DRAWN BY: B. HURRY  
CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

TITLE SHEET

T-01  
SHEET NO. 1 OF 16





REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

DESIGNED BY: A. CANNON  
DRAWN BY: B. HURRY  
CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

SITE OVERVIEW



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GENERAL NOTES

1. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY MATERIALLY FROM THOSE SHOWN IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE DRAWINGS WITHOUT THE WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
3. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND OTHER APPLICABLE REGULATORY REQUIREMENTS.
5. THE CONTRACTOR SHALL ABIDE BY THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS AND THE CONTRACTOR'S HEALTH AND SAFETY PLAN (HASP), AS APPROPRIATE, AS WELL AS APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF SITE PERSONNEL.
7. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING STRUCTURES OR UTILITIES. ANY DAMAGE TO EXISTING STRUCTURES, SHORELINES, OR UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY MARKOUTS AND FORWARDING CONFIRMATION OF NOTIFICATION TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL NECESSARY PERMITS FROM THE AFFECTED UTILITY COMPANIES AND FOR SCHEDULING OF INSPECTIONS BY UTILITY COMPANY PERSONNEL, IF REQUIRED, DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEDIMENT CONTROL MEASURES DURING THE CONSTRUCTION PERIOD, AS REQUIRED BY THE PERMITS, LOCAL ORDINANCES, PLANS, AND SPECIFICATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES. PROMPTLY NOTIFY APPROPRIATE AUTHORITIES AND OWNER'S REPRESENTATIVE, AND REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
11. THE CONTRACTOR SHALL FIELD VERIFY SEDIMENT PHYSICAL PROPERTIES AND OTHER SITE FEATURES. CONTRACTOR ACKNOWLEDGES THAT THEY HAVE UNDERTAKEN ANY PRE-BID INVESTIGATION THEY DEEM NECESSARY TO DETERMINE TO COMPOSITION, SIZE, SHAPE, LOCATION AND DEPTH OF MATERIALS THAT WILL BE ENCOUNTERED.
12. NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL BY THE OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR IS ADVISED THAT ALL LOCAL PUBLIC NUISANCE LAWS AND NOISE ORDINANCES SHALL BE OBSERVED DURING THE COURSE OF CONSTRUCTION.
14. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY AFFECTED BY CONSTRUCTION ACTIVITIES TO AT LEAST AS GOOD OF CONDITION AS BEFORE CONSTRUCTION ACTIVITIES, AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
15. IN THE EVENT OF CONFLICT BETWEEN THESE DRAWINGS AND THE TECHNICAL SPECIFICATIONS THE TECHNICAL SPECIFICATIONS SHALL GOVERN.
16. THE CONTRACTOR SHALL NOT STORE OR STAGE EQUIPMENT OR MATERIALS ON SHOOTING ISLAND

DATUM NOTES

1. HORIZONTAL DATUM: NEW JERSEY STATE PLANE, NAD 83, U.S. FEET.
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

DATA SOURCES

1. BATHYMETRIC SURVEY DATA WAS COLLECTED BY ACT ENGINEERS IN FEBRUARY 2017.
2. BASEMAPS PROVIDED BY THE CITY OF OCEAN CITY, JULY 2015

ONE INCH  
↑  
↓  
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY



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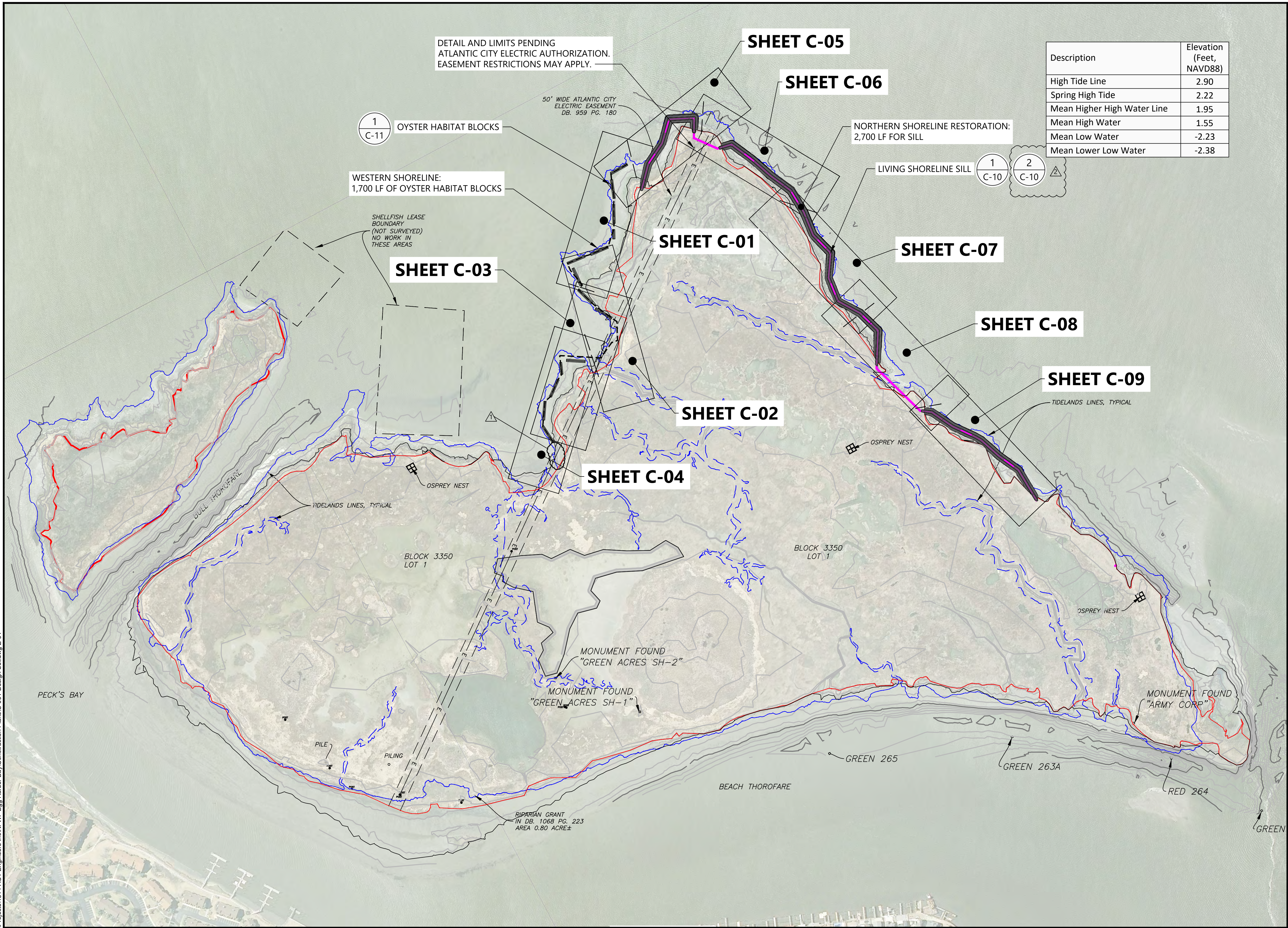
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DRAWN BY: B. HURRY  
CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

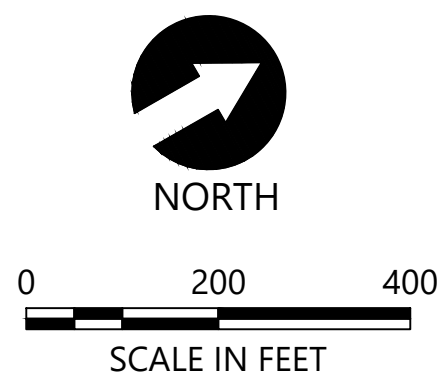
GENERAL NOTES AND ABBREVIATIONS



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- LEGEND:**
- PROPOSED LIVING SHORELINE SILL
  - PROPOSED OYSTER HABITAT BLOCKS
  - 1978 SHORELINE
  - 1978 TIDAL CREEK
  - 2017 SURVEY ELEVATION CONTOURS, 1 AND 5 FOOT, NAVD88
  - 2017 SURVEY SHORELINE (ELEVATION 0, NAVD88)
  - 2017 SURVEY OPEN WATER BOUNDARY
  - 2017 SURVEY OSPREY NEST
  - GREEN 265 CHANNEL MARKER



- NOTES:**
- HORIZONTAL DATUM: NEW JERSEY STATE PLANE, NAD83, U.S. FEET.
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  - AERIAL IMAGERY WAS OBTAINED FROM THE NJGIN INFORMATION WAREHOUSE, DATED 2007.

ONE INCH  
AT FULL SIZE, IF NOT ONE  
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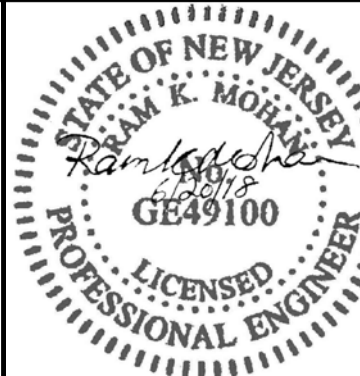
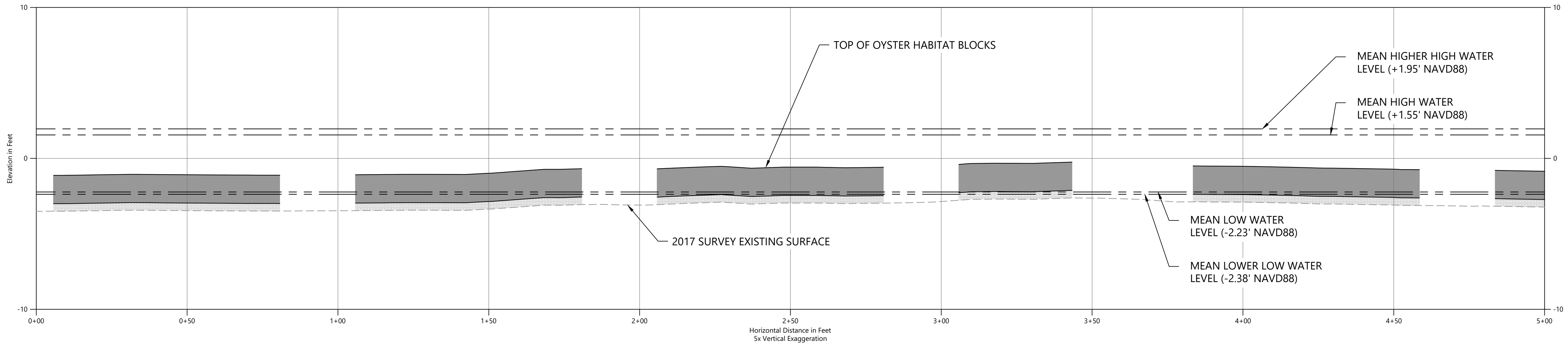
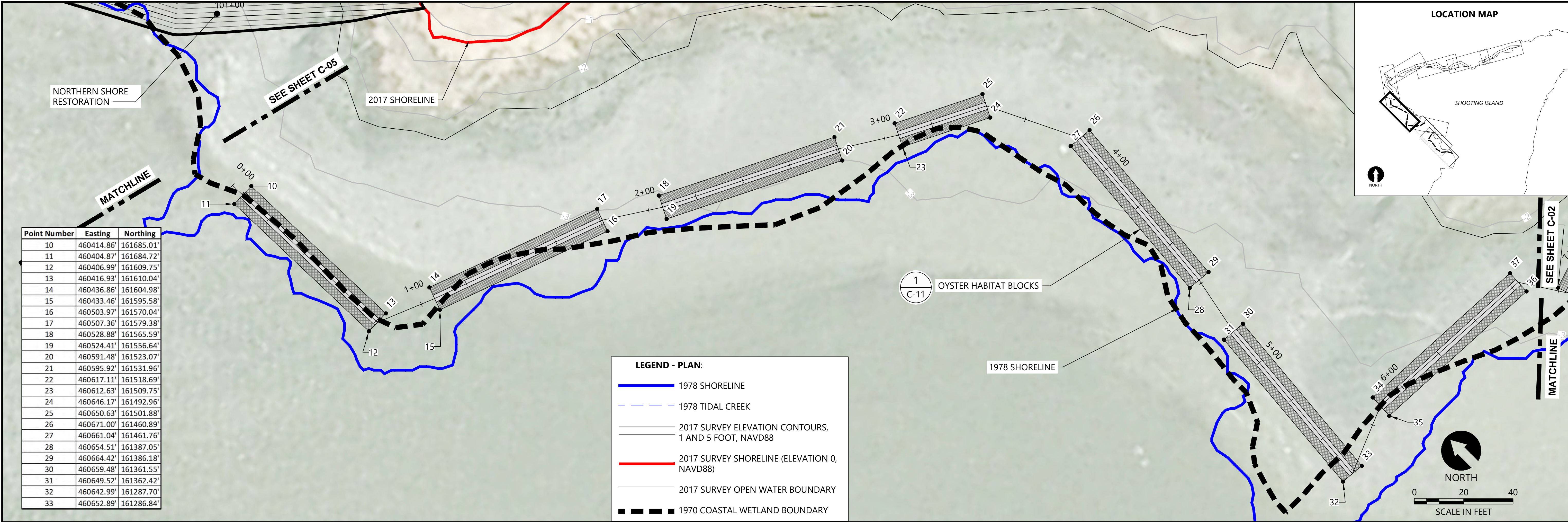
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2	7/26/2018	BDH	RKM	ADDITION OF SILL VENTS	

DESIGNED BY: A. CANNON  
DRAWN BY: B. HURRY  
CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

EXISTING CONDITIONS AND PROPOSED  
LIVING SHORELINE ALIGNMENT





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CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
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DATE: JUNE 20, 2018

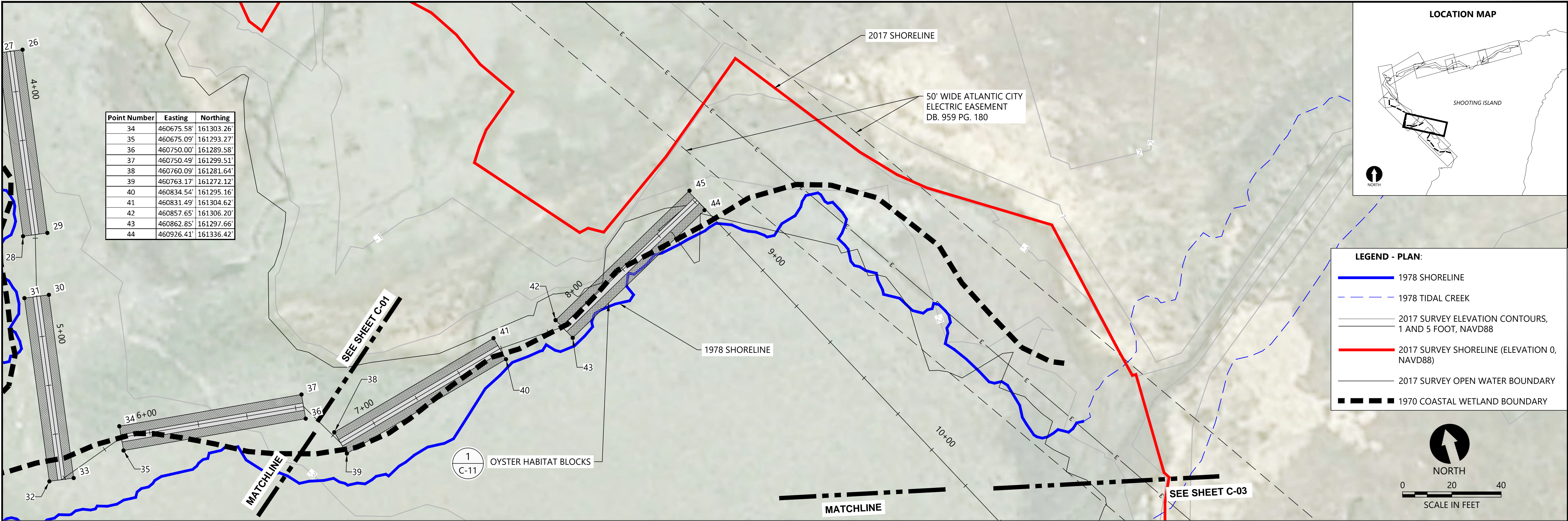
SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

WESTERN LIVING SHORELINE  
ALIGNMENT LAYOUT STA. 0+00 TO 5+00

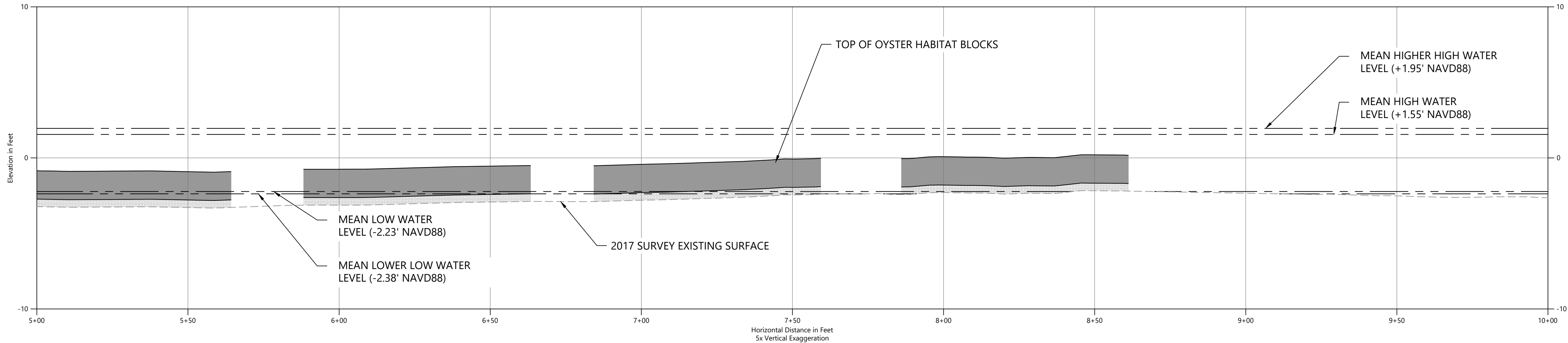
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SHEET NO. 5 OF 16





PLAN



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CHECKED BY: M. HENDERSON  
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SCALE: AS NOTED  
DATE: JUNE 20, 2018

SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

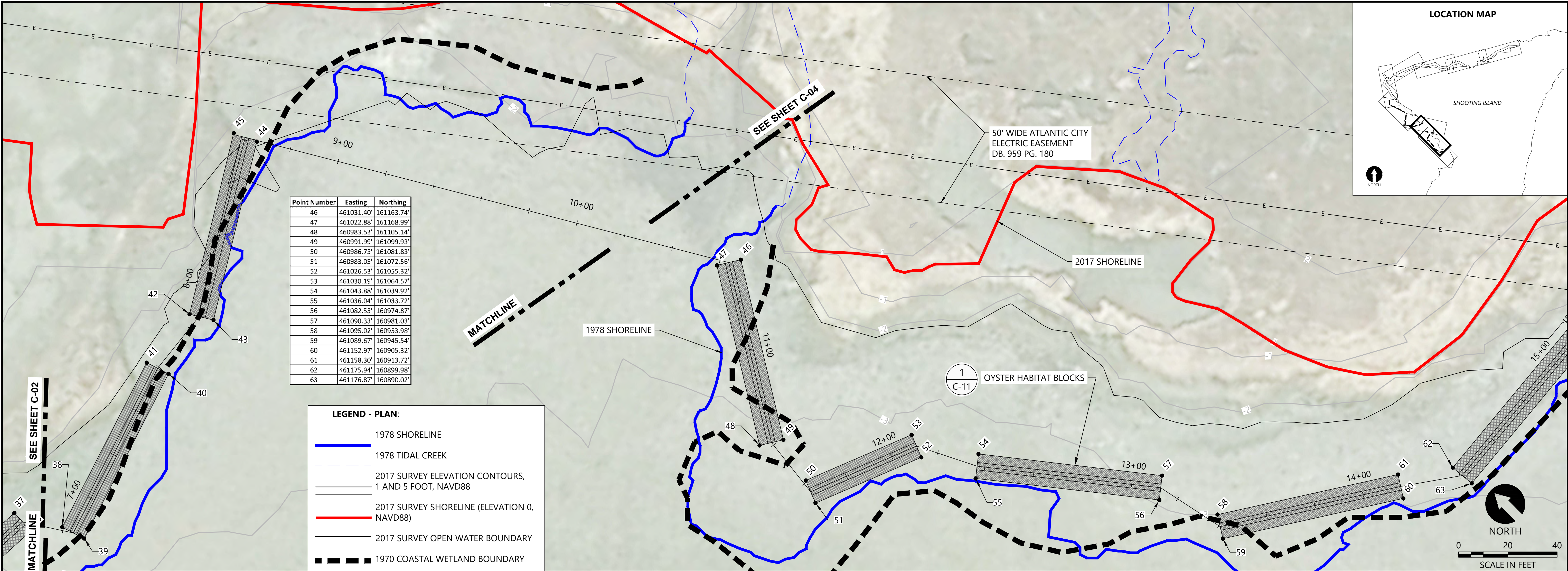
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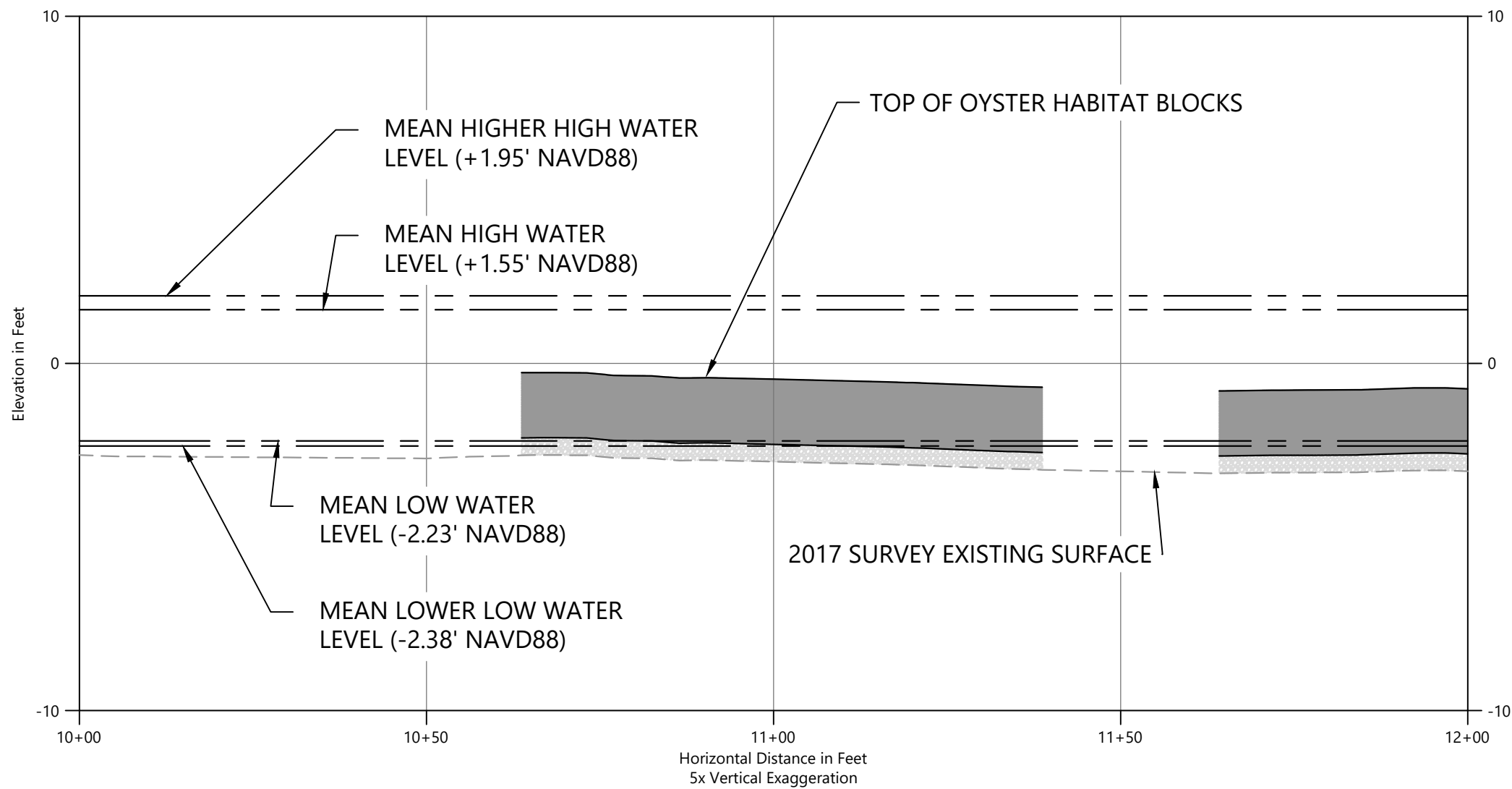
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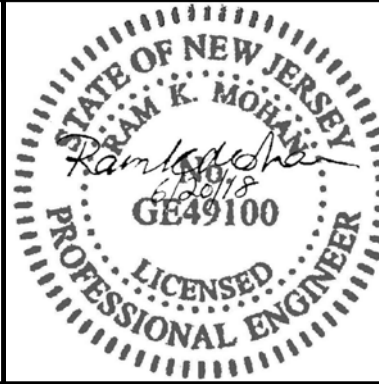
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PROFILE

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CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

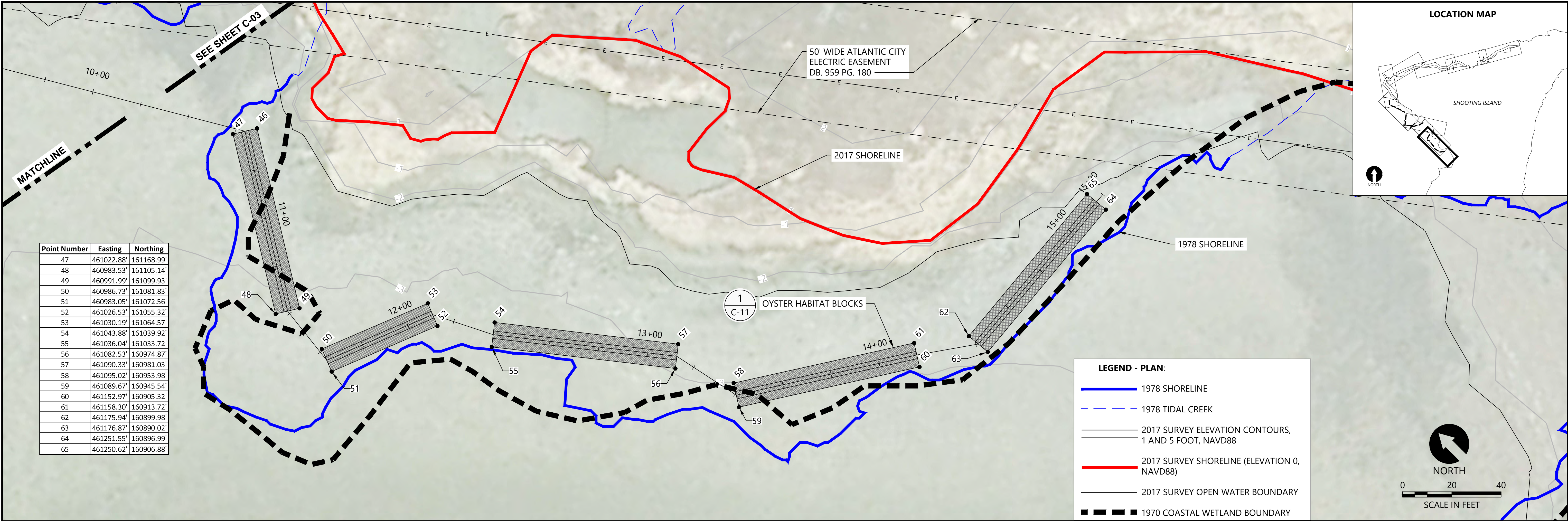
SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

WESTERN LIVING SHORELINE  
ALIGNMENT LAYOUT STA. 10+00 TO 12+00

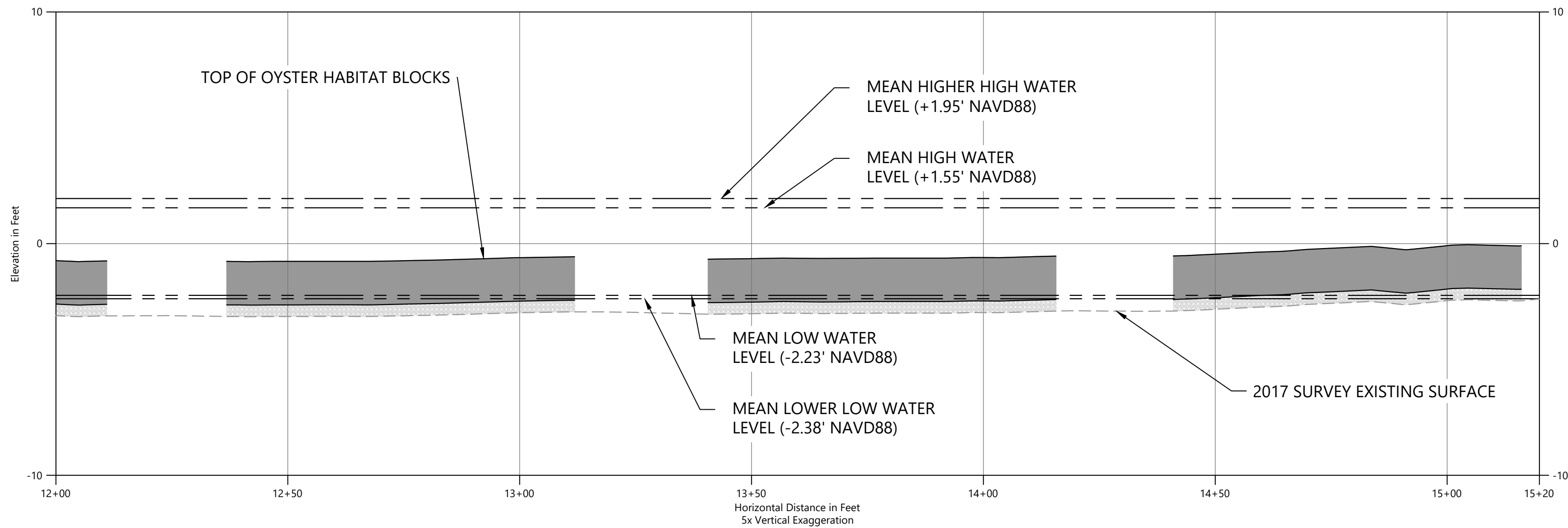
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SHEET NO. 7 OF 16





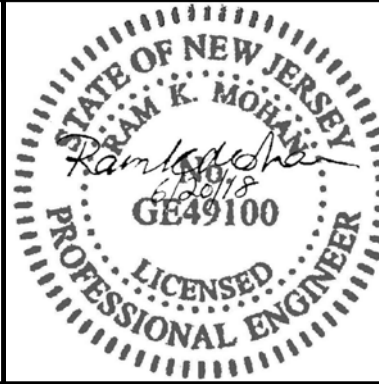
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PROFILE

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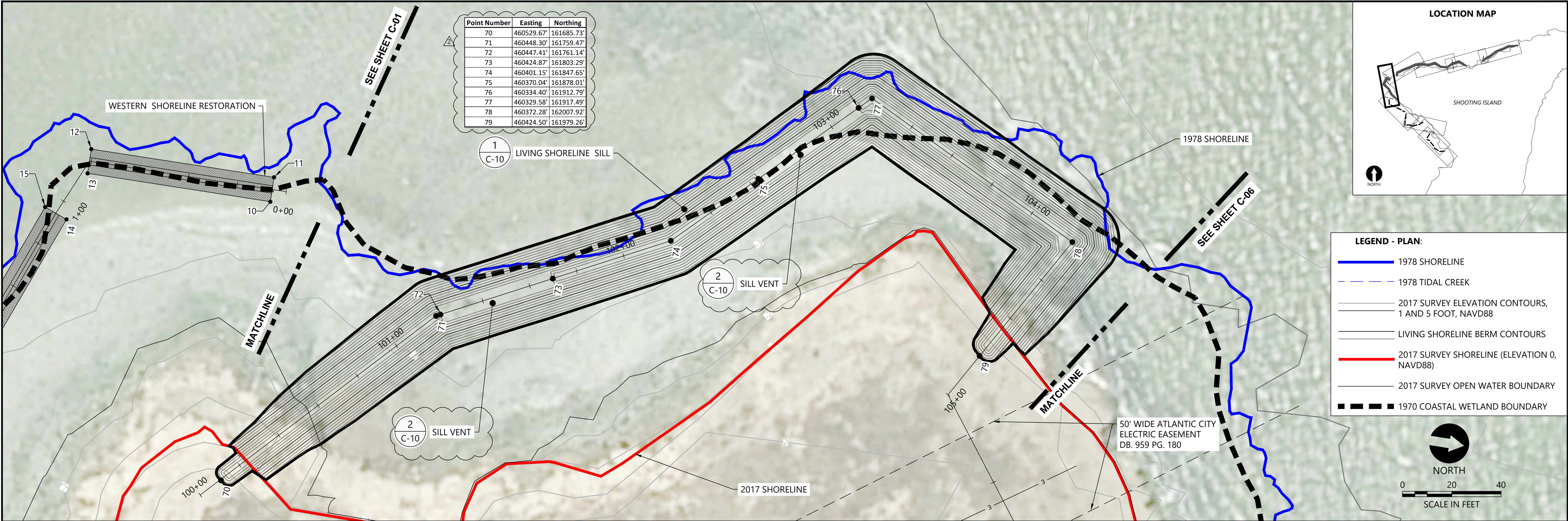
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DRAWN BY: B. HURRY  
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APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

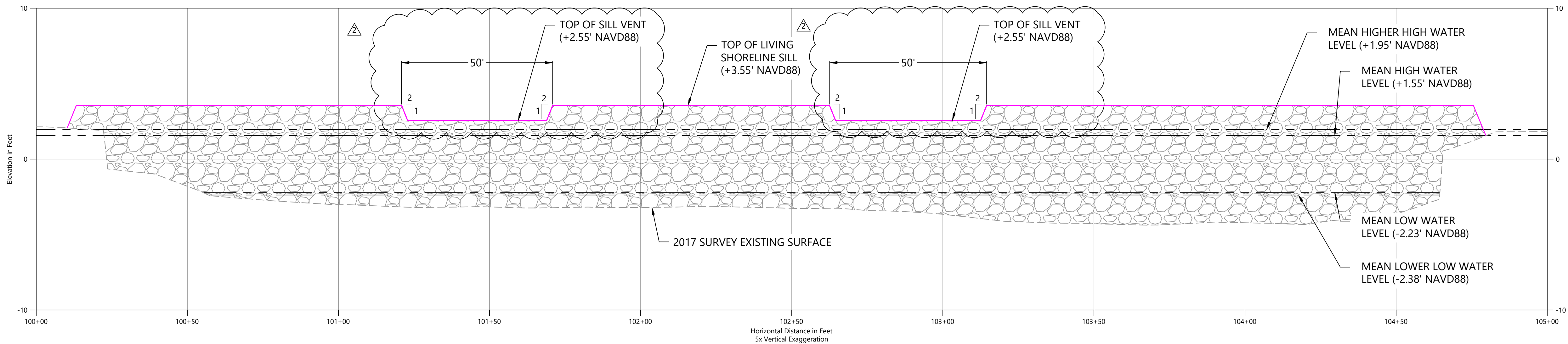
SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

WESTERN LIVING SHORELINE  
ALIGNMENT LAYOUT STA. 12+00 TO END





PLAN



PROFILE

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Jul 26, 2018 12:53pm bhurry



REVISIONS				
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DESIGNED BY: A. CANNON  
DRAWN BY: B. HURRY  
CHECKED BY: M. HENDERSON  
APPROVED BY: R. MOHAN  
SCALE: AS NOTED  
DATE: JUNE 20, 2018

SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

NORTHERN LIVING SHORELINE  
ALIGNMENT LAYOUT STA. 100+00 TO  
105+00

ONE INCH  
= 40 FEET  
AT FULL SIZE, IF NOT ONE  
INCH SCALE ACCORDINGLY

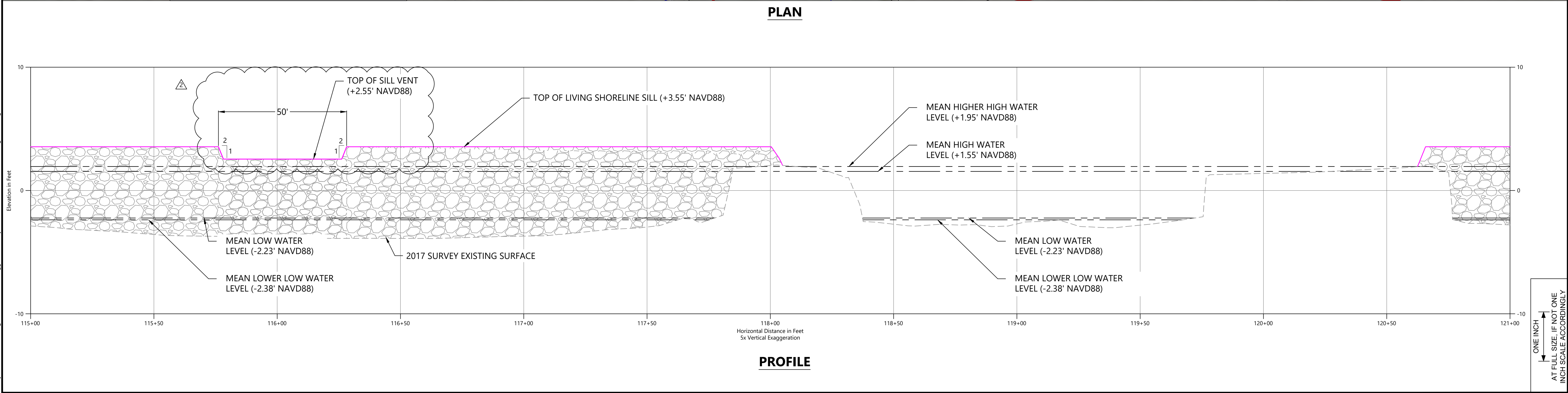
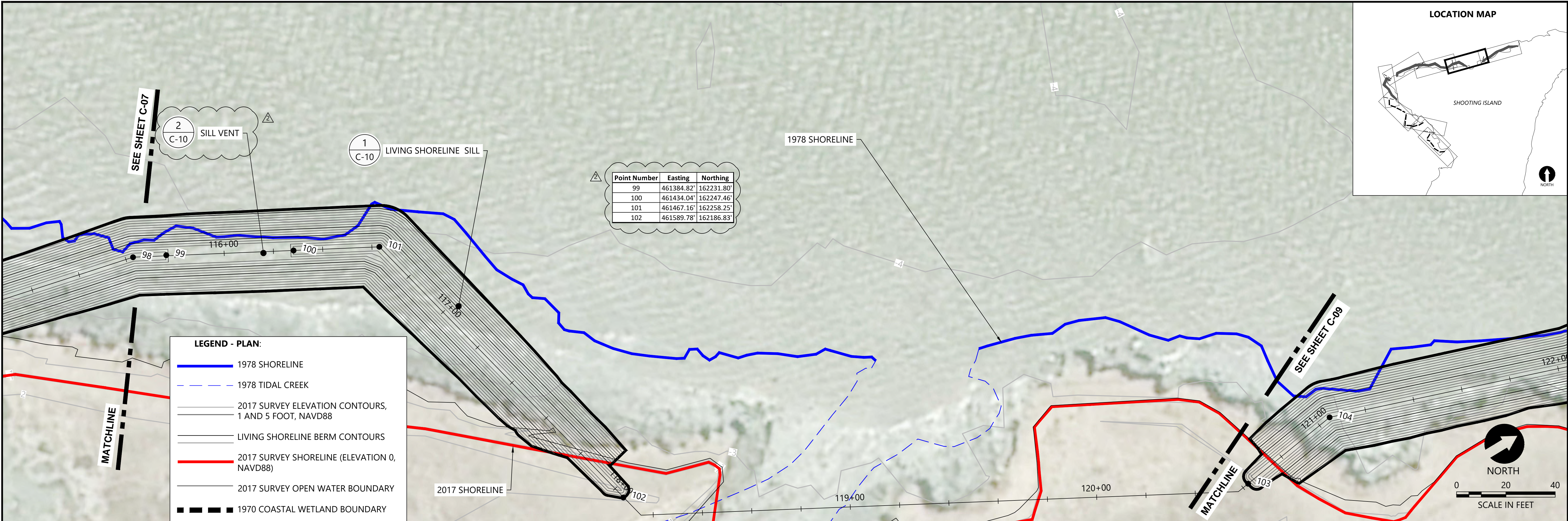





















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1	7/26/2018	BDH	RKM	ADDITION OF SILL VENTS

DESIGNED BY: A. CANNON

DRAWN BY: B. HURRY

CHECKED BY: M. HENDERSON

APPROVED BY: R. MOHAN

SCALE: AS NOTED

DATE: JUNE 20, 2018

**SHOOTING ISLAND RESTORATION**  
**CITY OF OCEAN CITY, NJ**  
**NATIONAL FISH AND WILDLIFE FOUNDATION GRANT**

**NORTHERN LIVING SHORELINE**  
**ALIGNMENT LAYOUT STA. 115+00 TO 121+00**

**C-08**

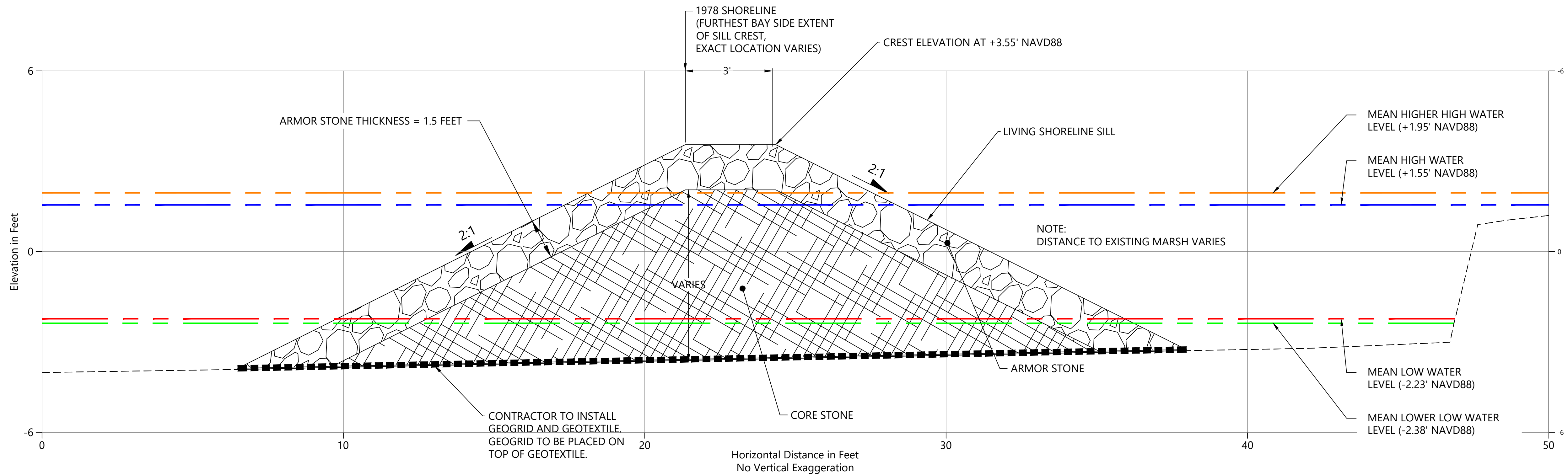
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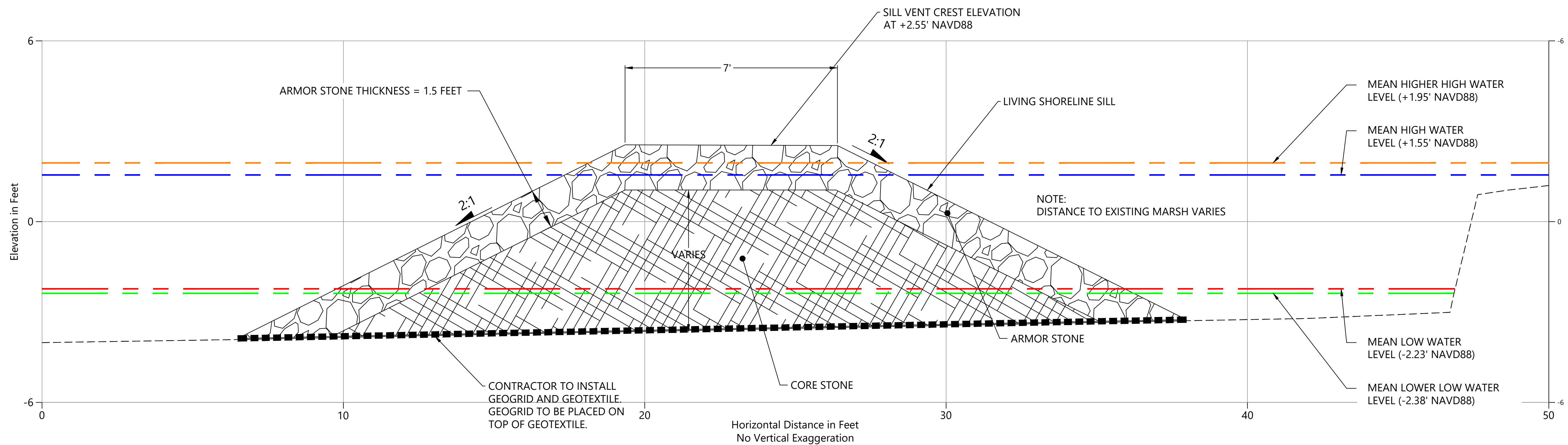


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Jul 26, 2018 8:04am bhurry



1 TYPICAL LIVING SHORELINE CROSS SECTION  
C-10 SCALE: 1" = 2'

- LEGEND - PROFILE:
- Existing Surface Elevation
  - Mean Higher High Water Level (+1.95' NAVD88)
  - Mean High Water Level (+1.55' NAVD88)
  - Mean Low Water Level (-2.23' NAVD88)
  - Mean Lower Low Water Level (-2.38' NAVD88)



2 TYPICAL SILT VENT CROSS SECTION  
C-10 SCALE: 1" = 2'

0 2 4  
SCALE IN FEET

ONE INCH  
AT FULL SIZE, IF NOT ONE  
INCH SCALE ACCORDINGLY



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1	7/26/2018	BDH	RKM	ADDITION OF SILL VENTS	

DESIGNED BY: A. CANNON  
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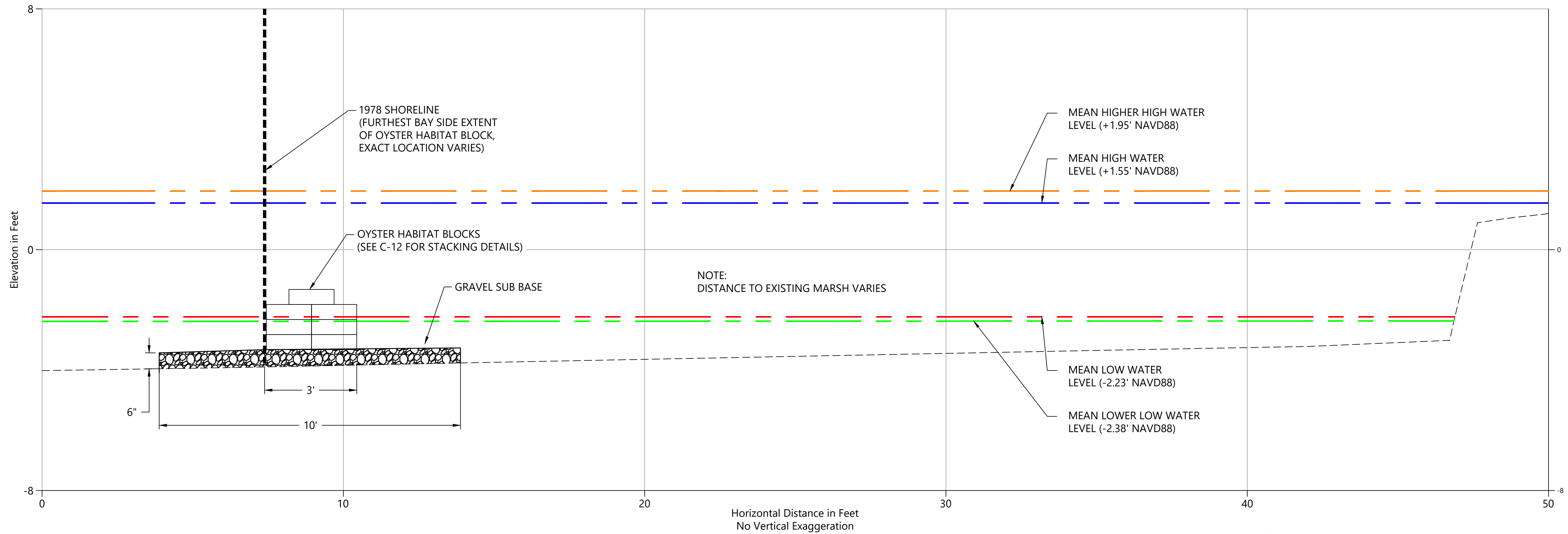
SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT  
NORTHERN SHORELINE - DETAILS AND  
CROSS SECTIONS

C-10

SHEET NO. 14 OF 16

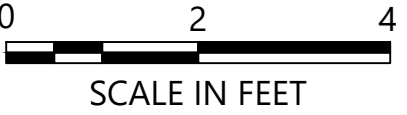


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1  
C-11 TYPICAL LIVING SHORELINE CROSS SECTION  
SCALE: 1" = 2'

LEGEND - PROFILE:	
-----	Existing Surface Elevation
-----	Mean Higher High Water Level (+1.95' NAVD88)
-----	Mean High Water Level (+1.55' NAVD88)
-----	Mean Low Water Level (-2.23' NAVD88)
-----	Mean Lower Low Water Level (-2.38' NAVD88)



ONE INCH  
AT FULL SIZE. IF NOT ONE  
INCH SCALE ACCORDINGLY



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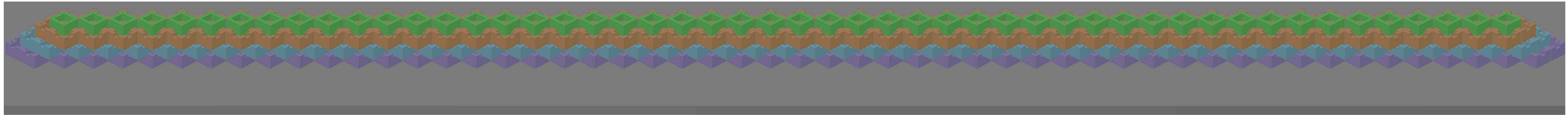
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SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

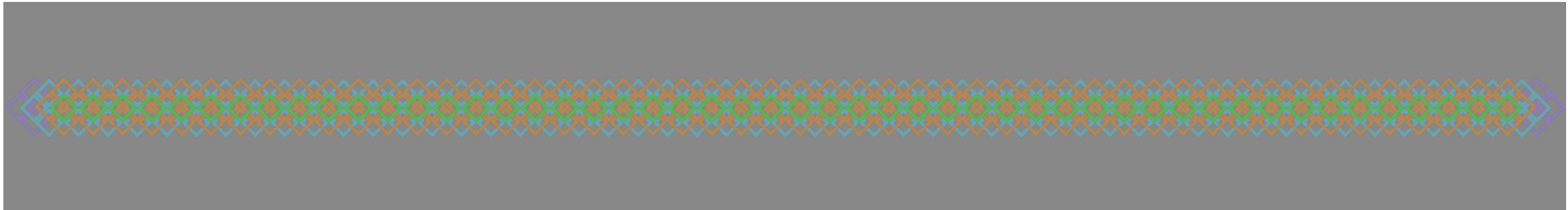
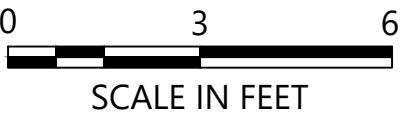
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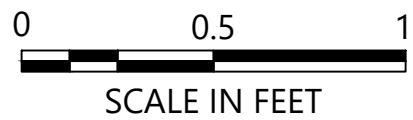
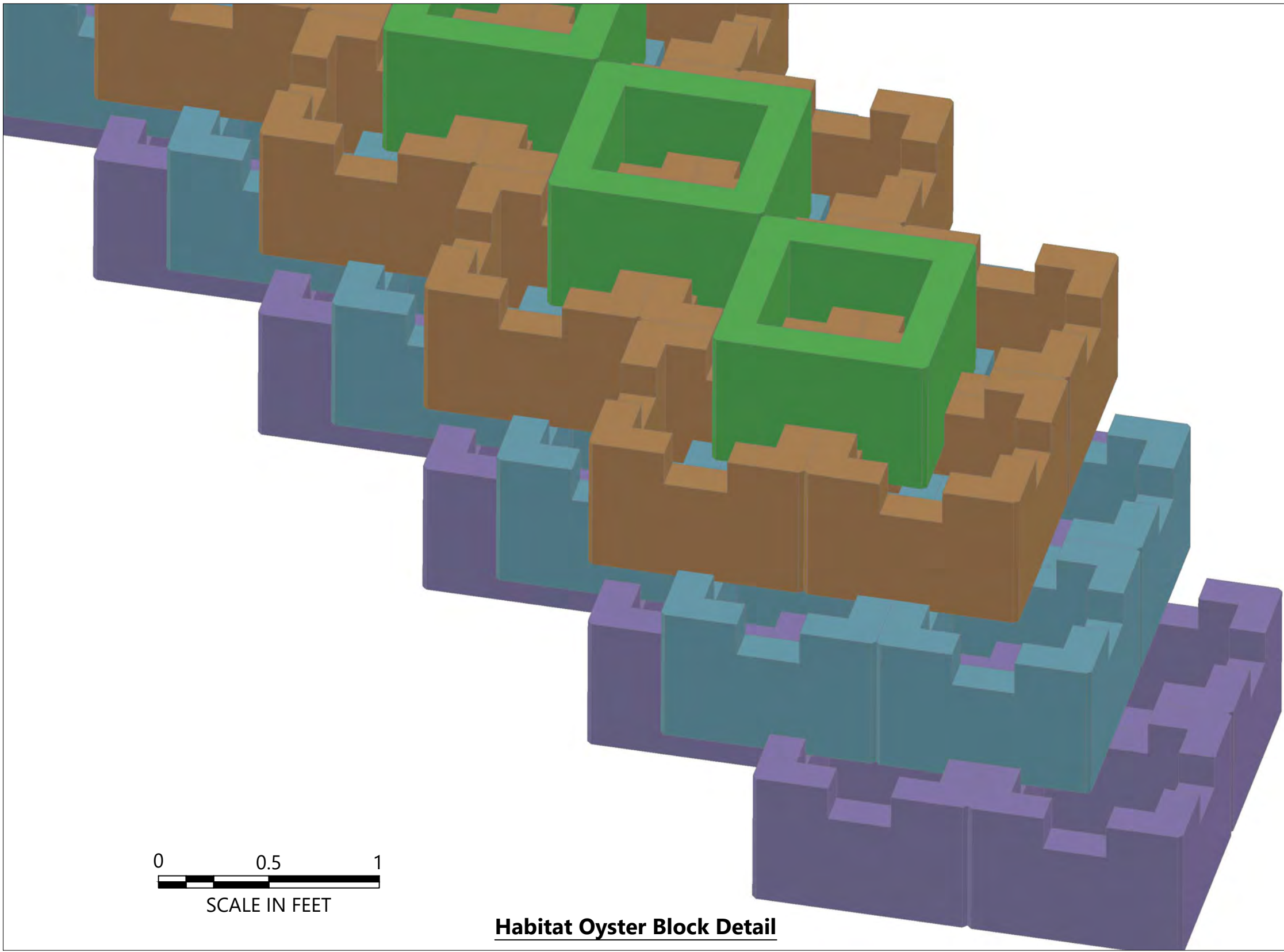
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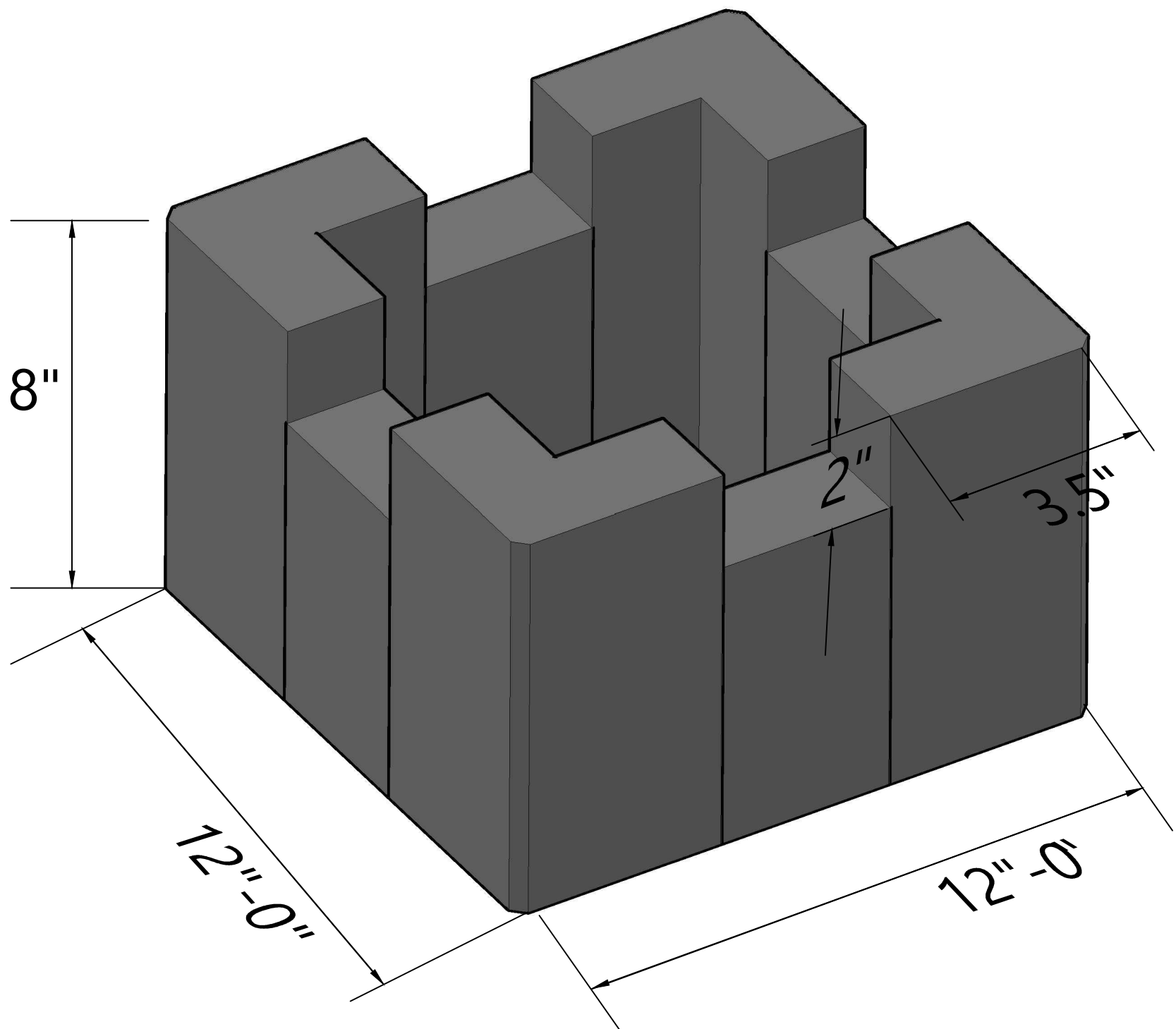
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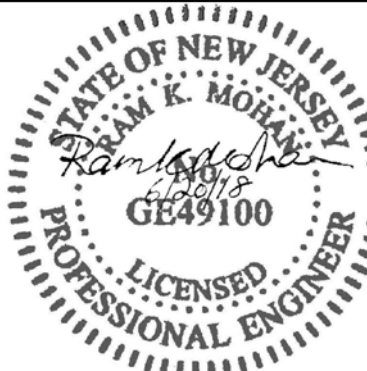


Habitat Oyster Block Detail



Oyster Habitat Block Dimensions

ONE INCH  
↑  
↓  
AT FULL SIZE, IF NOT ONE  
INCH SCALE ACCORDINGLY



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REV	DATE	BY	APP'D	DESCRIPTION

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SHOOTING ISLAND RESTORATION  
CITY OF OCEAN CITY, NJ  
NATIONAL FISH AND WILDLIFE FOUNDATION GRANT

OYSTER HABITAT BLOCK DETAILS

C-12

SHEET NO. 16 OF 16