



**US Army Corps
of Engineers**
Philadelphia District

Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice

Public Notice No. NAP-2019-00174-86	Date June 17, 2022
Application No. NAP-2019-00174-86	File No. NAP-2019-00174-86
In Reply Refer to: REGULATORY BRANCH	

This District 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).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: Thomas Seaman
Borough of Seaside Park
1701 North Ocean Avenue
Seaside Park, NJ 08752

AGENT: Pamela Hilla
Remington & Vernick Engineers
9 Allen Street
Toms River, NJ 08753

WATERWAY: Barnegat Bay

LOCATION: The project is located within Barnegat Bay along North Bay Avenue, Seaside Park, Ocean County, New Jersey. The project extends from the intersection of H Street and North Bayview Avenue to the intersection of Island Avenue and North Bayview Avenue. (39.928800, -74.080034)

ACTIVITY: The project includes the proposed installation of a living shoreline, which will include a vegetated beach dune system along with an oyster reef breakwater extending from H Street to Island Avenue. Proposed walkovers are to be constructed to maintain public access to the Bayfront. The proposed living shoreline shall help to enhance vegetation/habitat, dissipate wave action and stabilize the shoreline along the Barnegat Bay in the Borough of Seaside Park. Additionally, six (6) existing stormwater outfalls will be replaced and extended, and inline tide valves are to be installed at each stormwater outfall.

Phase I of this project will consist of a 6.0-foot NAVD 1988 elevation dune crest that will be 4 feet above the Bayview Avenue Street elevation and 50 feet in toe-to-toe width starting at Bayview Avenue's western curb line. This dune will blend in with the remnant dunes at both ends of the segment. A sand beach above mean high water will extend into the bay for 30 additional

feet to a new mean high-water line followed by a 1:10 slope down to the existing bay floor. Public access at each perpendicular street end will be afforded by pedestrian walkways over the dunes onto the beach. This Bayshore segment is entirely municipally owned and will remain perpetually in public ownership with access always allowed. No fixed structural development will be anticipated on the 3 restored beach or dunes. Traditional dune vegetation will be planted and protected from trespass with appropriate fencing. Offshore in shallow water that dominates this part of Barnegat Bay, a staggered orientation series of eight (8) HESCO steel baskets filled with 4 to 6 inch stone and encapsulated with shell is proposed to be installed along the segment as two back to back rows of baskets 10 feet wide by 30 feet long oriented to generally face the northwest wave approach direction and a second single row of HESCO baskets in parallel formation to the front rows, but set back landward by 50 feet. There will be 100-foot gaps between the sets of baskets to allow some wave passage and fish passage and allow horseshoe crabs and diamondback terrapins, along with recreational small vessels and paddleboards used by local residents and visitors, access to the sand beach.

This hybrid living “breakwater” will be submerged at high tide and be exposed at low tide. Shells will be set on both faces, the ends and the top surfaces of the reef units and eventually weld the entire array into a potential habitat for organisms in each of the basket units. Installation would be from a barge using a small crane to fill and place each basket unit into the formation fronting the Bayshore.

PURPOSE: The applicant’s stated purpose of the project is to repair the damaged shoreline along N. Bayview Avenue. The dune system will help mitigate flooding in the area and the HESCO oyster baskets will create a living shoreline while dissipating wave energy that could potentially damage the shoreline. There is no barrier protection to flood occurrence with the roadway curb only 6 to 8 inches above normal high tide and seven blocks of this Phase 1 zone totally exposed to both wind-generated waves and tide levels a foot above the normal high tide.

A preliminary review of this application indicates that species listed under the Endangered Species Act or their critical habitat pursuant to Section 7 of the ESA as amended, maybe present in the action area. This District will forward this PN to the US Fish and Wildlife Service and National Marine Fisheries Service (NMFS) with a request for technical assistance on whether any ESA listed species or their critical habitat maybe present in the area which would be affected by the proposed activity. The District will evaluate the potential effects of the proposed actions on ESA listed species or their critical habitat and will consult with NMFS as appropriate. ESA Section 7 consultation will be concluded prior to the final decision on this permit application.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The District 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 District 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 the 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.

Comments on the proposed work should be submitted, in writing, within 30 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

The District's Cultural Resource Specialist is currently reviewing the proposed permit action for potential impacts to Historic Properties eligible for or listed on the National Register of Historic Places. A determination of effects will be coordinated with the State Historic Preservation Office, the Tribes and other consulting parties.

The Magnuson-Stevens Fishery Conservation and Management Act requires all federal agencies to consult with the NOAA Fisheries all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). A preliminary review of this application indicates that EFH is present within the project area. The District will evaluate the potential effects of the proposed actions on EFH and will consult with NOAA Fisheries as appropriate. Consultation will be concluded prior to the final decision on this permit application.

Compensatory mitigation is not required by this office because the proposed project does not change an aquatic area to dry land; does not cumulatively increase the bottom elevation of a waterbody; does not change the use of a waterbody; and does not result in the loss of water of the United States.

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a state's coastal zone must provide certification that the activity complies with the state's Coastal Zone Management (CZM) Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved state CZM Program. No permit will be issued until the state has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed and/or existing activity on the state's coastal zone should be sent to this office, with a copy to the state's Office of Coastal Zone Management.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to water quality considerations should be sent to this office with a copy to the state.

The evaluation of the impact of the work described above on the public interest 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.

Any person may request, by email, to the District Engineer at PhiladelphiaDistrictRegulatory@usace.army.mil, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing. If it is necessary to provide a written request by traditional mail, such request should be submitted within the comment period specified in this notice to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Additional information concerning this permit application, CENAP-OPR-2020-00454-86 may be obtained by emailing Genevieve Sarlo at Genevieve.T.Sarlo@usace.army.mil.

For: Todd A. Schaible
Chief, Regulatory Branch

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
3. ALL PAVED AND CONCRETE AREAS, STRUCTURES AND FEATURES (FENCING, LANDSCAPING, DRIVEWAYS, ETC.) DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
4. ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDED. SEEDING SHALL BE NUDOT TYPE A-3.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION LAYOUT OF THE PROJECT. PAYMENT SHALL BE INCLUDED UNDER THE VARIOUS ITEMS IN THE BID SCHEDULE.
7. RESTORATION OF DISTURBED AREAS, EXCEPT AS INDICATED ON THE BID FORM, SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. EMBANKMENT, TOPSOIL AND SEEDING CONSTRUCTION ADJACENT TO THE SIDEWALKS AND CURBS SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AND SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR "CLEANING AND RESTORATION".
8. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT THE APPROXIMATE LOCATIONS OF ROADWAY FACILITIES AND UTILITY STRUCTURES THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF THE WORK ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED BY THE ENGINEER AND THE CONTRACTOR IS ADVISED TO VERIFY IN THE FIELD ALL THE FACTS CONCERNING THE LOCATIONS OF THESE FACILITIES PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL MATERIALS AS INDICATED HEREIN IN ACCORDANCE WITH ALL FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS. NO ADDITIONAL PAYMENT SHALL BE MADE, BUT THE COST THEREOF SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE BID SCHEDULE.
10. DUE TO THE ONGOING NATURE OF UTILITY INSTALLATIONS AND REPAIRS, THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH ALL UTILITIES TO ACCOMMODATE THEIR WORK AND SCHEDULES. ANY ROADWAY BASE REPAIRS OR RESURFACING SHOWN THAT MAY BE IN CONFLICT WITH UTILITY WORK BY OTHERS SHALL BE POSTPONED UNTIL THE UTILITIES HAVE COMPLETED THEIR UNDERGROUND UTILITY WORK. THE CONTRACTOR SHALL REQUEST THE EXTENSION OF TIME TO COMPLETE THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS, HOWEVER ADDITIONAL PAYMENT FOR EXTENSION OF TIME SHALL NOT BE MADE.
11. UNDERCUT ANY ZONES OF INSTABILITY DISCLOSED BY THE PROOFROLLING, AS DETERMINED BY THE ON-SITE REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER, AND REPLACE THE UNDERCUT MATERIAL WITH CONTROLLED STRUCTURAL FILL AS DEFINED HEREIN. AS REQUIRED, RAISE THE GROUND SURFACE TO THE PROPOSED SUBGRADE ELEVATION WITH CONTROLLED STRUCTURAL FILL. THE GRANULAR PORTION OF THE ON-SITE SOILS PREVIOUSLY EXCAVATED CAN BE USED AS A COMPONENT OF THE STRUCTURAL FILL ON THE SOIL IS WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D 1557).
12. CONTROLLED STRUCTURAL FILL SHOULD CONSIST OF INORGANIC, READILY COMPACTABLE, PREDOMINANTLY WELL-GRADED GRANULAR SOILS WITH NO MORE THAN 12% FINES (MATERIAL PASSING THE NO. 200 SIEVE), AND A MAXIMUM PARTICLE SIZE OF 3 INCHES. THE FILL SHOULD BE PLACED IN LIFTES TO BE CONTROLLED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY ASTM D 1557, BY WETTING, AERATION OR BLENDING, AS NECESSARY. CONTROLLED FILL SHOULD BE PLACED IN LOOSE HORIZONTAL LIFTS WITH A MAXIMUM THICKNESS OF 9 INCHES. IT IS RECOMMENDED THAT CONTROLLED FILL WITHIN THE CONSTRUCTION AREA BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D 1557). IN ADDITION, IT IS RECOMMENDED THAT ALL FILLS BE STABLE WITHOUT SIGNIFICANT MOVEMENT UNDER CONSTRUCTION TRAFFIC, AS JUDGED BY THE GEOTECHNICAL ENGINEER'S REPRESENTATIVE ON-SITE. QUALITY CONTROL TESTING OF IN-PLACE FILL DENSITIES SHOULD BE CONDUCTED THROUGHOUT THE ENTIRE EARTHWORK OPERATION.
13. ALTHOUGH THERE ARE TWO ITEMS FOR "CLEARING SITE" AND "SOIL EROSION AND SEDIMENT CONTROL" ON THE PLANS, THERE IS ONE BID ITEM FOR ALL LOCATIONS. THE BID ITEM SHALL INCLUDE ALL LOCATIONS IN PREPARATION OF EACH BID LOCATION.
14. ALL FILL MATERIAL TO BE SUITABLE TO NUDPE AND OCEAN COUNTY SOIL EROSION AND SEDIMENT CONTROL STANDARDS FOR DUNE AND BEACH REPLENISHMENT. ANY SUBSTITUTION MUST BE APPROVED BY THE ENGINEER.
15. PRIOR TO THE BEGINNING OF CONSTRUCTION ALL SOIL EROSION AND SEDIMENT CONTROL MUST BE IN PLACE.
16. CONTRACTOR TO COORDINATE ALL STOCKPILE AREAS FOR FILL MATERIAL WITH THE BOROUGH PRIOR TO ANY CONSTRUCTION OR MATERIALS BROUGHT TO THE SITE.

Item No.	Description	Sheet 6	Sheet 7	Plan Quantity	If and Where Directed	Contract Amount	Unit
1	Mobilization / Demobilization					1	LS
2	Clearing Site					1	LS
3	Maintenance and Protection of Traffic					1	LS
4	Select Fill					25,800	CY
5	Dune Fencing	1,950	2,175	4,125		4,125	LF
6	12" Ductile Iron Pipe	393	485	878		878	LF
7	12" Inline Check Valve	4	5	9		9	UN
8	Type "E" Inlet	4	5	9		9	UN
9	Oyster Reef Baskets	86	106	192		192	UN
10	Untreated Wood Pilings, 8" Diameter, 10' Long	29	35	64		64	UN
11	Outfall Pipe Support Assembly	4	5	9		9	UN
12	Roll-Out Beach Access Walkover	246	246	492		492	LF
13	Dune Grass Planting	4,650	5,300	9,950		9,950	SY
14	Soil Erosion and Sediment Control					1	LS
15	Cleaning and Restoration					1	LS



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[illegible]

BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSEMINATION
AND LIVING SHORELINE PROJECT

<u>DRAWN BY:</u> BK	<u>DESIGN BY:</u> PH / TD	<u>CHECKED BY:</u> PH	<u>SCALE:</u> AS SHOWN
<u>DATE:</u> 8 - 12 - 21		<u>SHEET No.:</u> 2 of 14	
<u>JOB No.:</u> 1528 - U - 063			

N:\DRAW\Seaside Park\1528U063\U063-MISC (2021



9 ALLEN STREET
TOMS RIVER, NJ 08753

Certification of Authorization: 24 GA 28003

~ENGINEERING EXCELLENCE~

ALAN B. DITTENHOFE

NJ PROFESSIONAL ENGINEER LIC. No. 3767

PLANS WHICH DO NOT BEAR
AN EMBOSSED SEAL ARE NOT VALID

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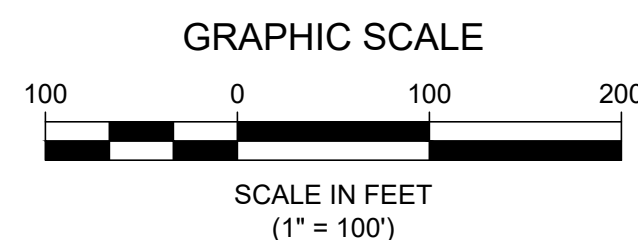
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BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND LIVING SHORELINE PROJECT

Borough of Seaside Park
Ocean County
New Jersey

4
 (2021)
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 BOROUGH OF SEASIDE PARK
 OCEAN COUNTY

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DATE: 8 - 12 - 21		SHEET No.: 3 of 14	
JOB No.: 1528 - U - 063			





9 ALLEN STREET
MS RIVER, NJ 08

WEB SITE ADDRESS : WWW.RVE.COM

Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

A. B. O'Connell

ALAN B. DITTENHOFER
NJ PROFESSIONAL ENGINEER LIC. No. 37672

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[illegible]

EXISTING CONDITIONS PLAN

BOROUGH OF SEASIDE PARK

BOROUGH OF SEASIDE PARK
OCEAN COUNTY
NEW JERSEY

<u>DRAWN BY:</u> BK	<u>DESIGN BY:</u> PH / TD	<u>CHECKED BY:</u> PH	<u>SCALE:</u> AS SHOWN
<u>DATE:</u> 8 - 12 - 21		<u>SHEET No.:</u> 4 of 14	
<u>JOB No.:</u> 1528 - U - 063			

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SCALE: 1" = 40'

GRAPHIC SCALE



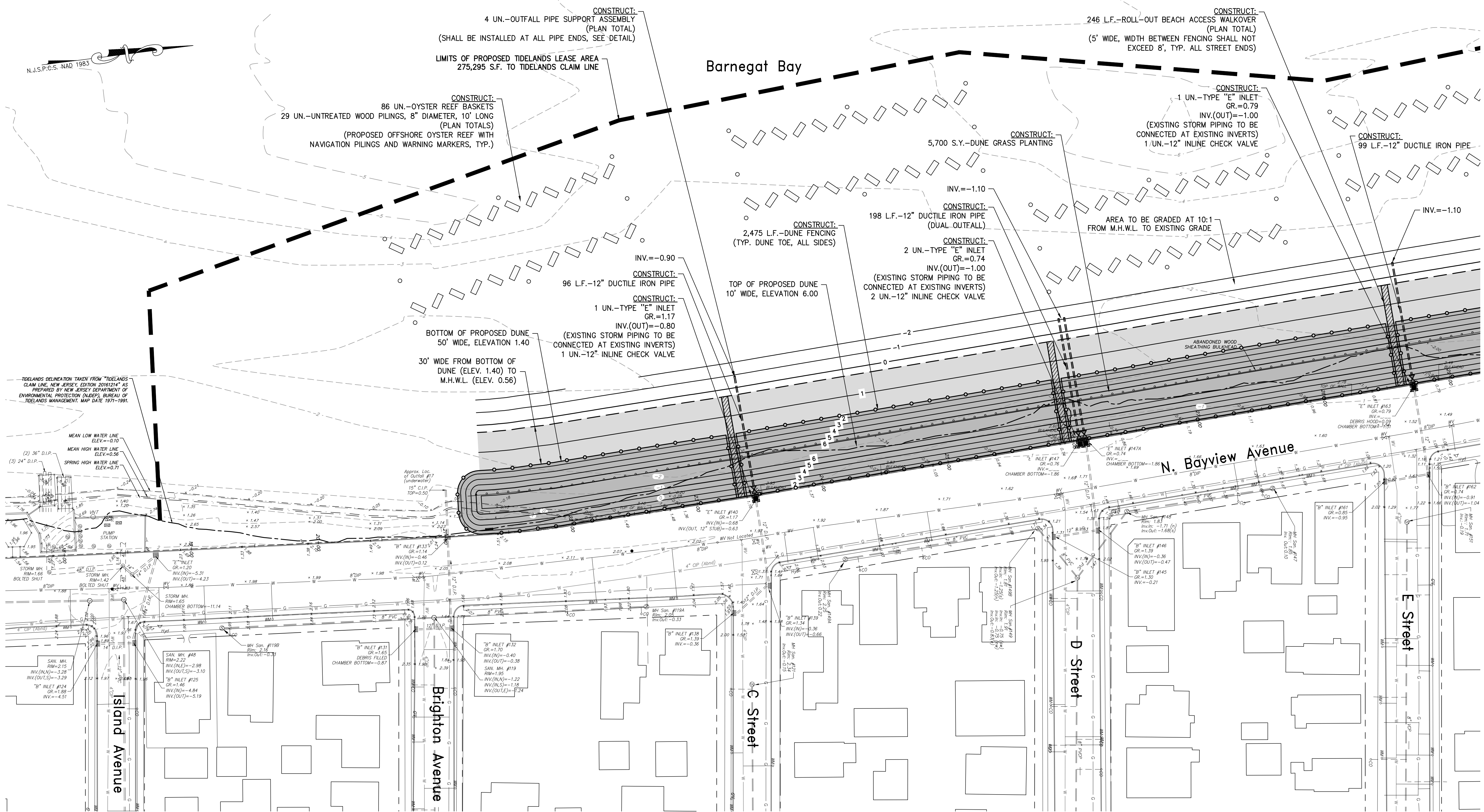
SCALE IN FEET
(1" = 40')

CONSTRUCTION NOTE:

1. REMOVAL OF EXISTING OUTFALL PIPING AND STORM INLET STRUCTURES TO BE INCLUDED UNDER "CLEARING SITE" ITEM.

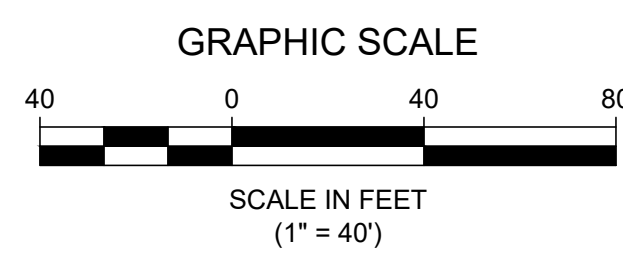
SURVEY NOTES & REFERENCES:

1. THE HORIZONTAL DATUM IS BASED ON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD-1983) AND THE VERTICAL DATUM IS BASED ON NAVD-1988 (ADD 1.18 FEET TO THESE ELEVATIONS TO CONVERT TO NGVD-1929 DATUM).
2. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE TOWNSHIP OF SEABOARD PARK, COCAN COUNTY, NEW JERSEY. PROPERTY AND RIGHT-OF-WAY LINES ARE SHOWN FOR GENERAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.
3. EXISTING TOPOGRAPHIC CONDITIONS WERE SURVEYED BY REMINGTON & VERNICK ENGINEERS UNDER THE SUPERVISION OF CHARLES E. ADAMSON, N.J.P.L.S. LICENSE NO. 42627. THE SURVEY WORK WAS COMPLETED ON NOVEMBER 21, 2016 AND APRIL 23, 2018.
4. THIS PLAN AND SURVEY DOES NOT CERTIFY TO THE LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ANY UNDERGROUND UTILITY OR STRUCTURE THAT WAS NOT EXPOSED FOR DIRECT MEASUREMENT.



PROPOSED IMPROVEMENTS PLAN

SCALE: 1" = 40'



SURVEY NOTES & REFERENCES:

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RVE
1901

REMINGTON
& VERNICK
ENGINEERS

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(732) 286-9220, FAX (732) 505-8416
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Certification of Authorization: 24 GA 28003300
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ALAN B. DITTENHOFER
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PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	REVISION	DATE	BY	CHK
1	REVISED PER N.J.D.E.P. REVIEW	10-19-21	BK	TD

PROPOSED IMPROVEMENTS PLAN

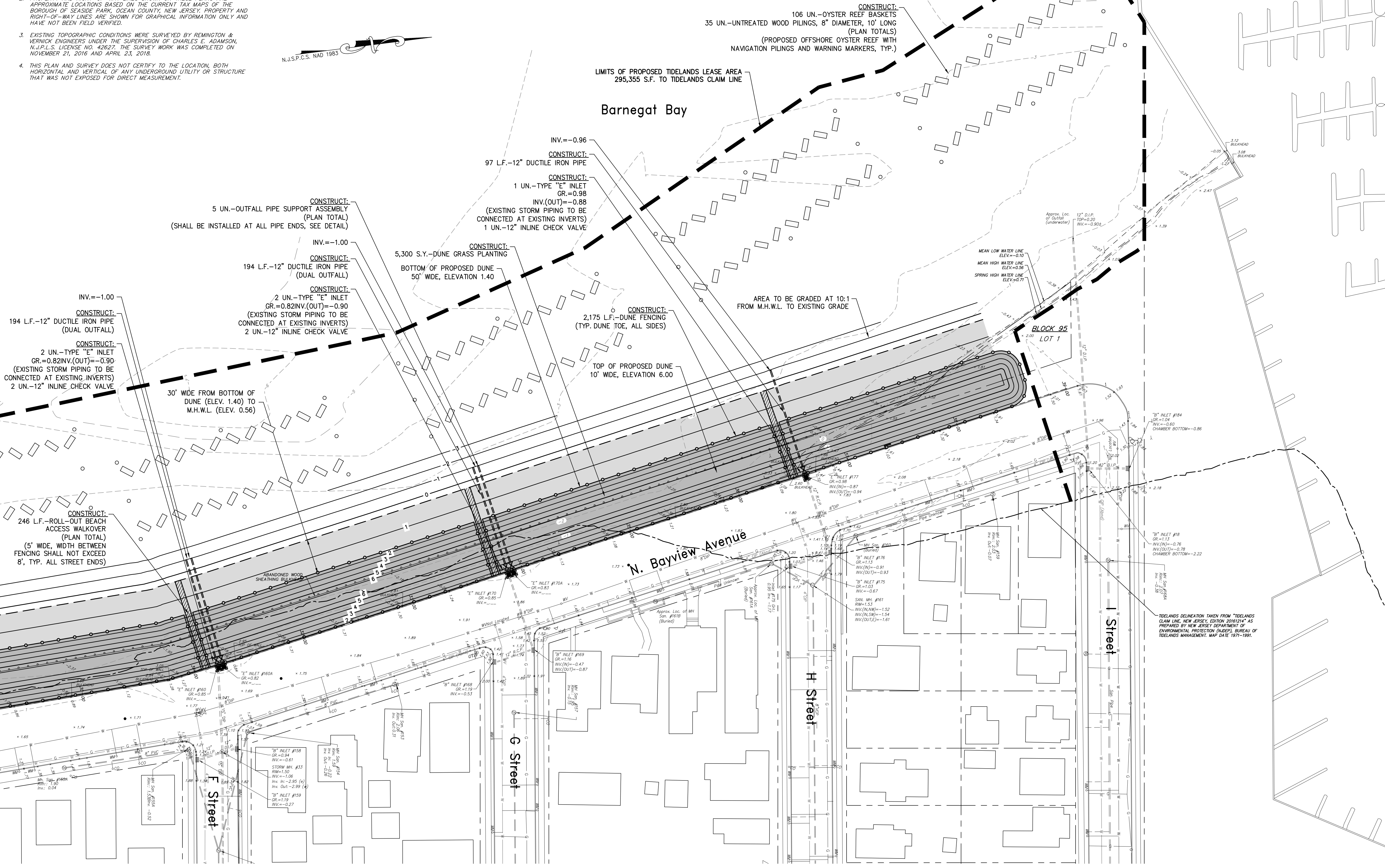
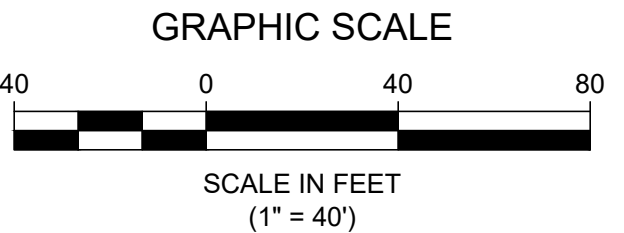
BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND LIVING SHORELINE PROJECT

BOROUGH OF SEASIDE PARK
OCEAN COUNTY
NEW JERSEY

DRAWN BY: BK	DESIGNED BY: PH / TD	CHECKED BY: PH	SCALE: AS SHOWN
DATE: 8 - 12 - 21		SHEET No.: 6 of 14	
JOB No.: 1520 - U - 063		N:\DRAW\Seaside Park\1520\063\U063-PLANS (2021).dwg	

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PROPOSED IMPROVEMENTS PLAN

SCALE: 1" = 40'



REMINGTON & VERNICK ENGINEERS

9 ALLEN STREET
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Certification of Authorization: 24 GA 28003300
-ENGINEERING EXCELLENCE-

Alan B. Dittenhofer
ALAN B. DITTENHOFER
NJ PROFESSIONAL ENGINEER LIC. NO. 37672

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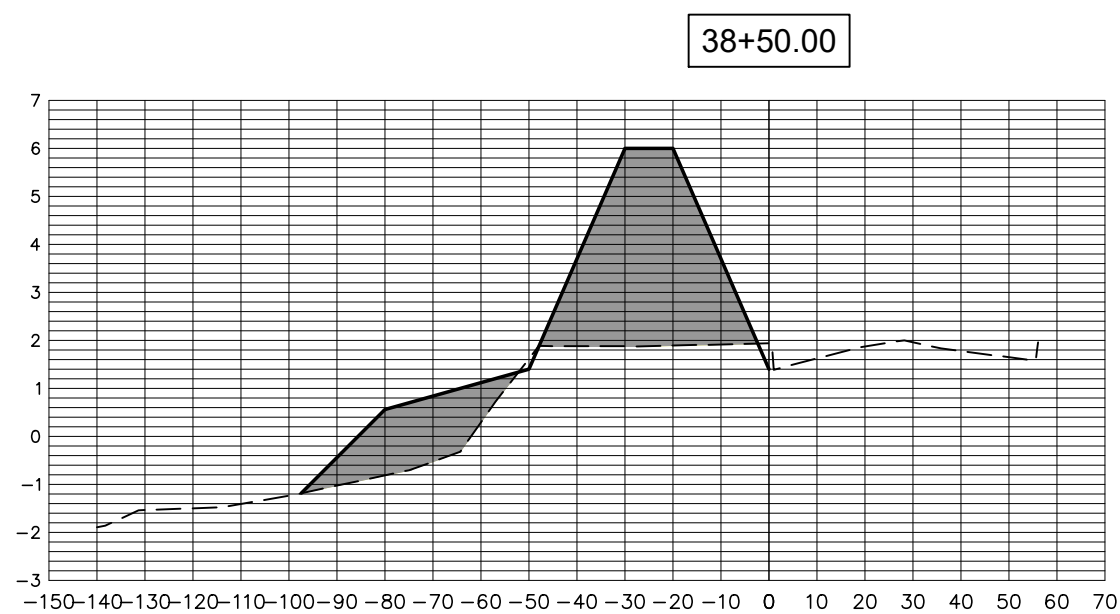
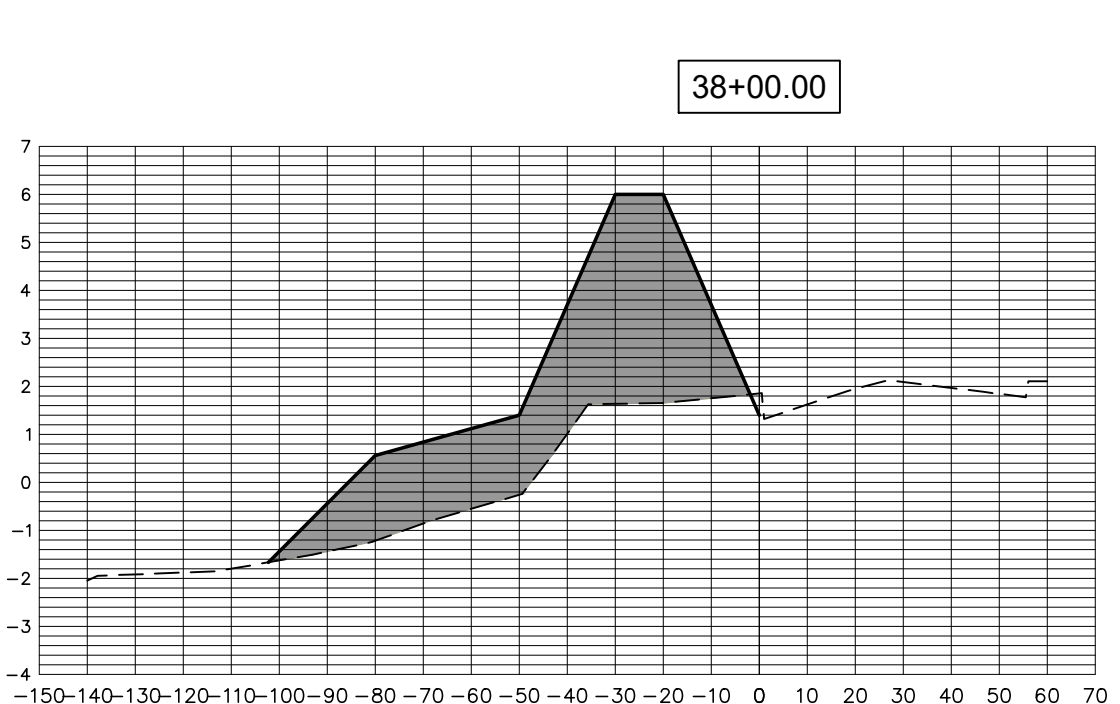
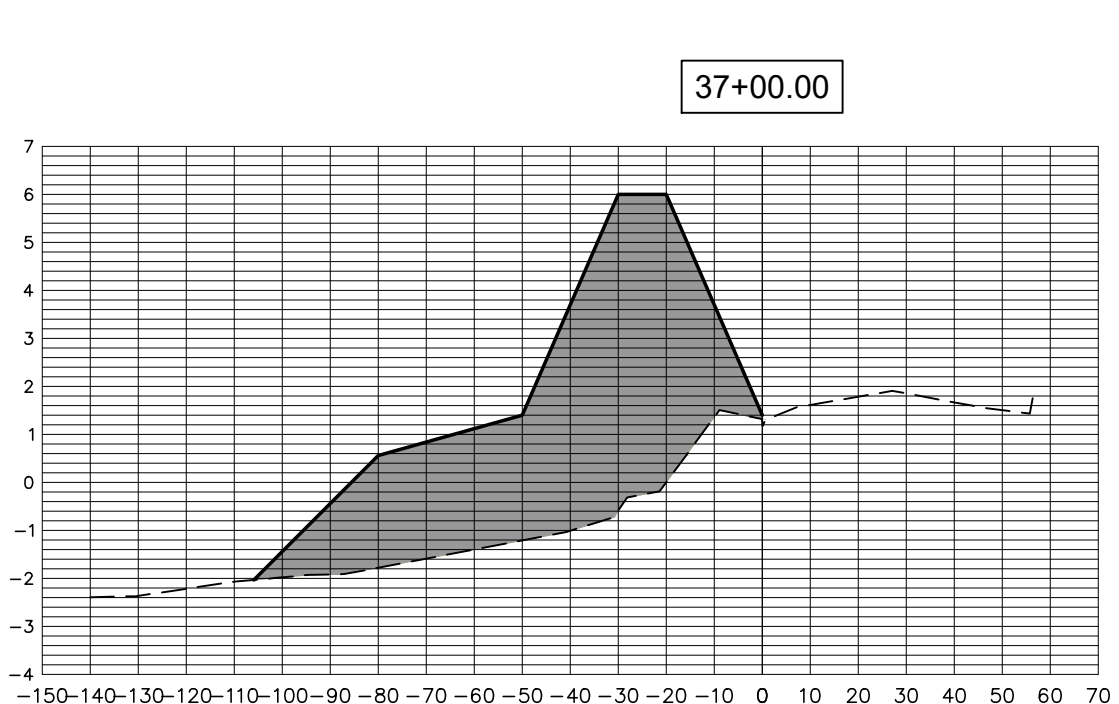
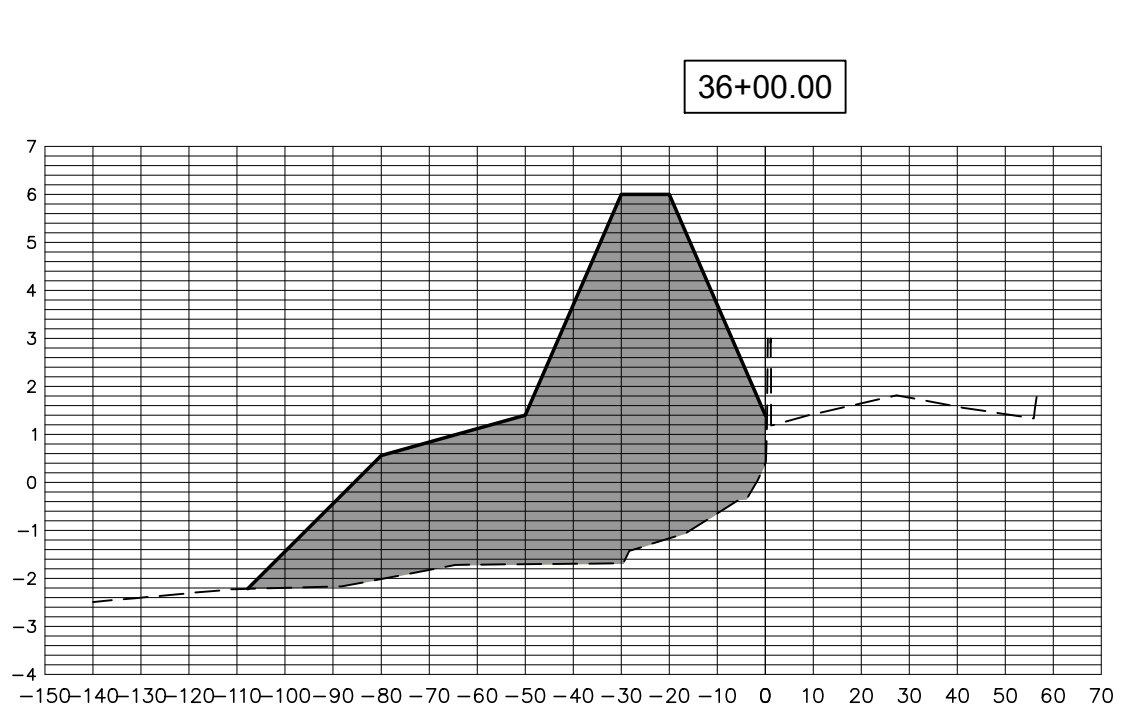
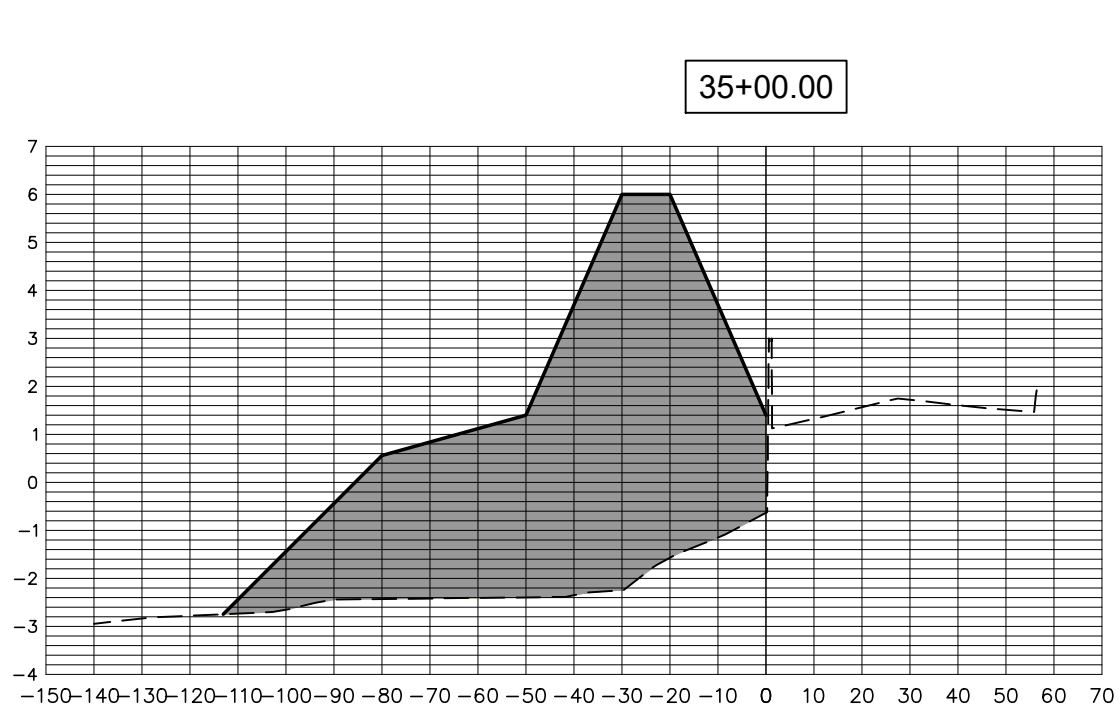
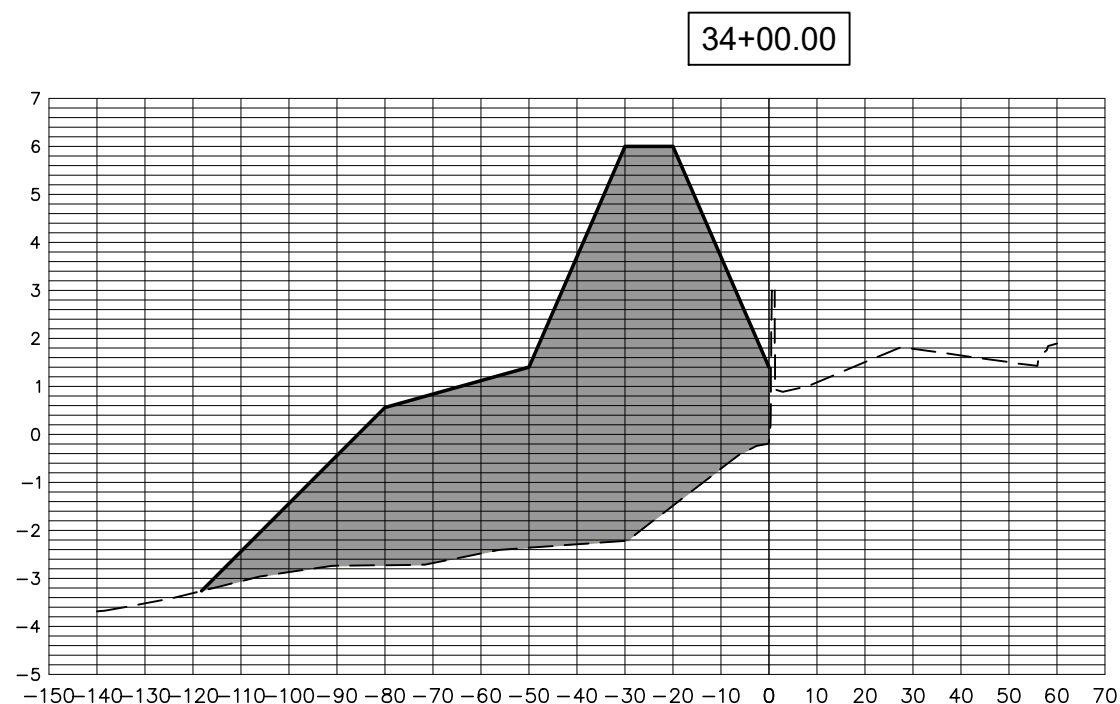
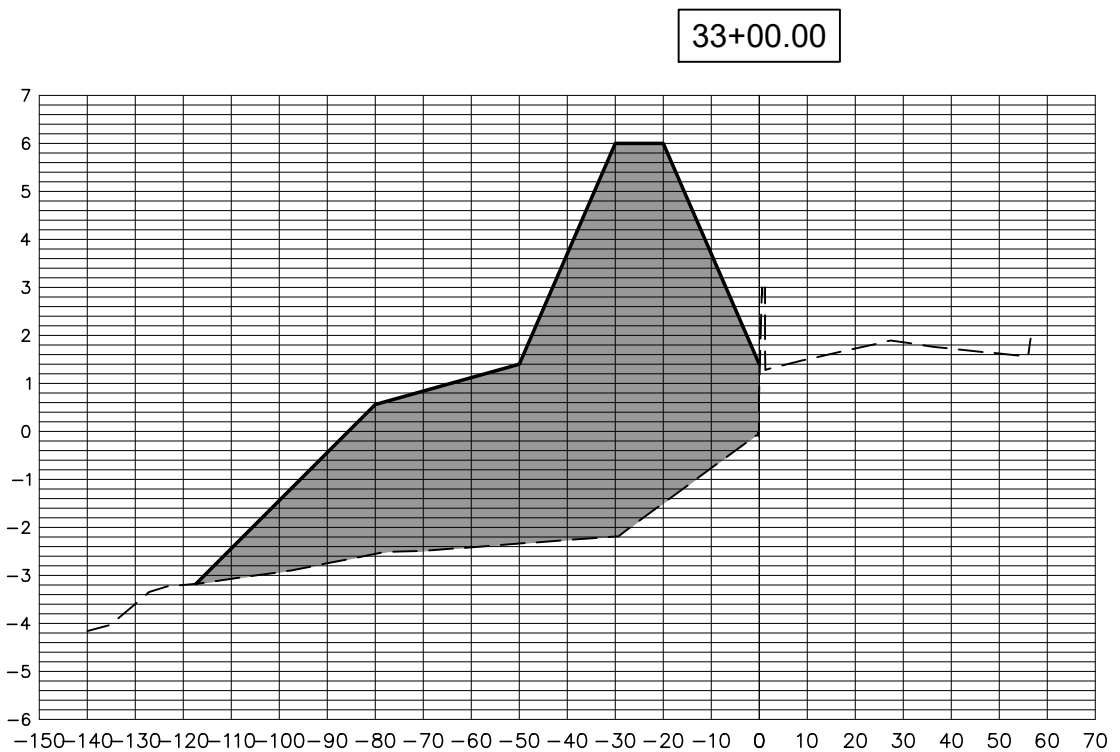
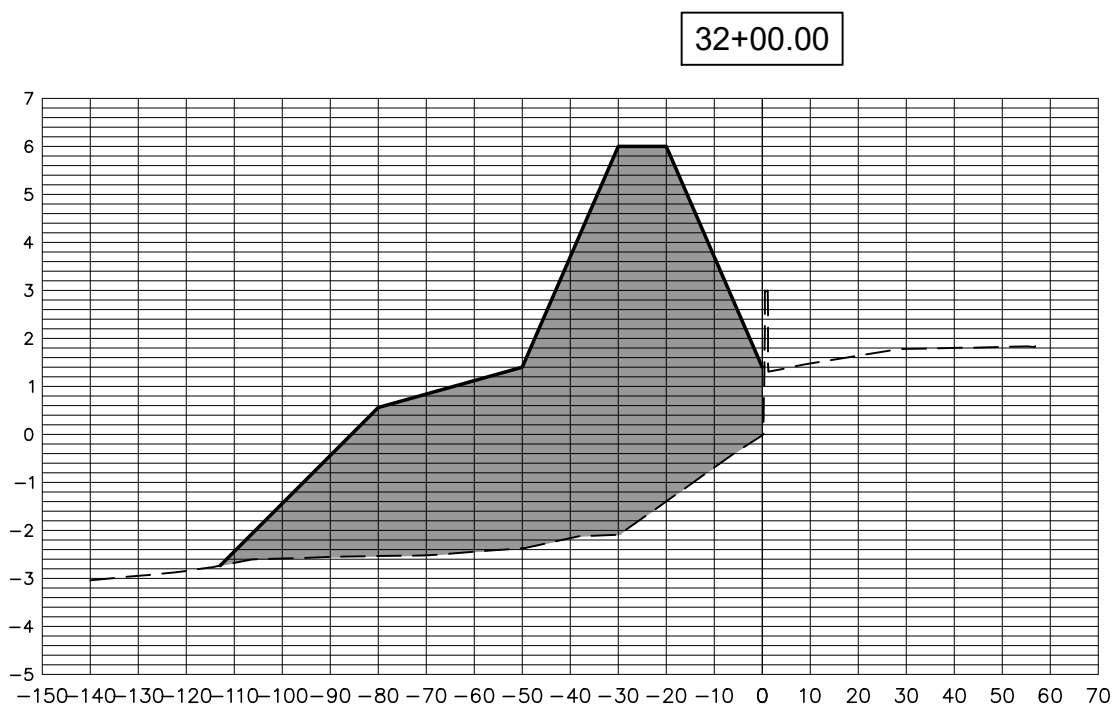
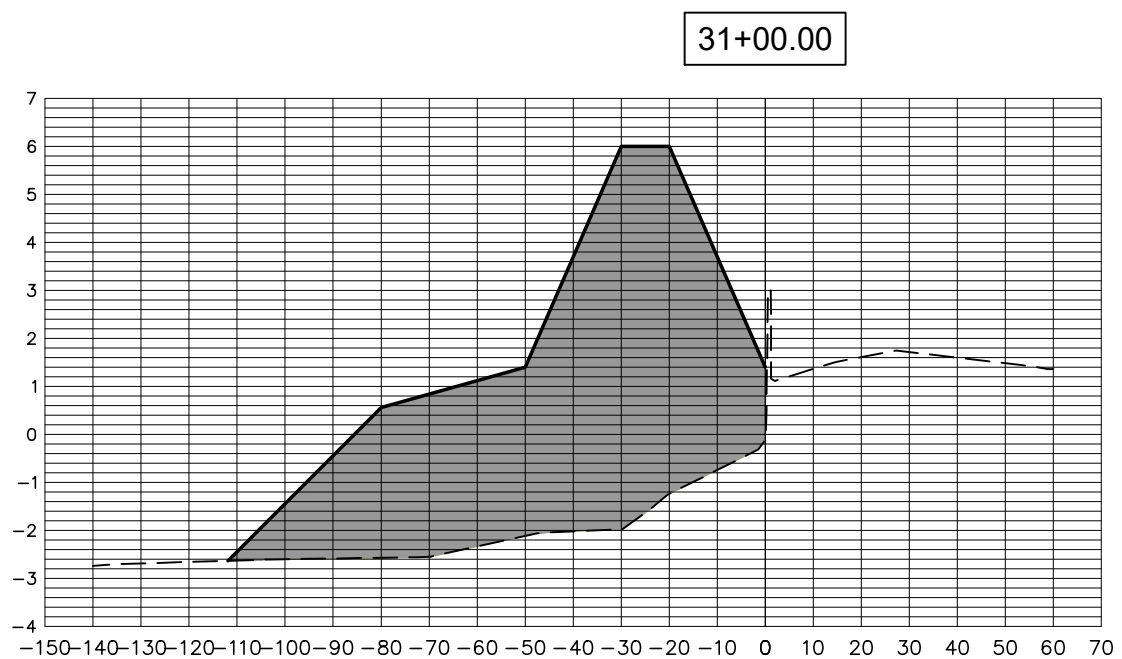
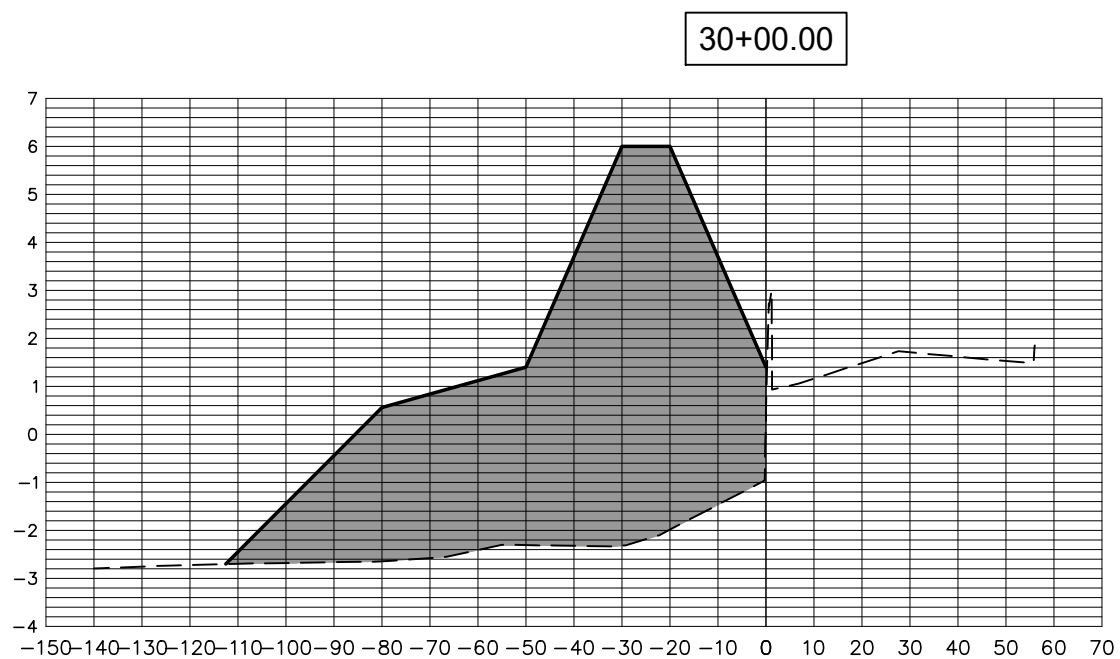
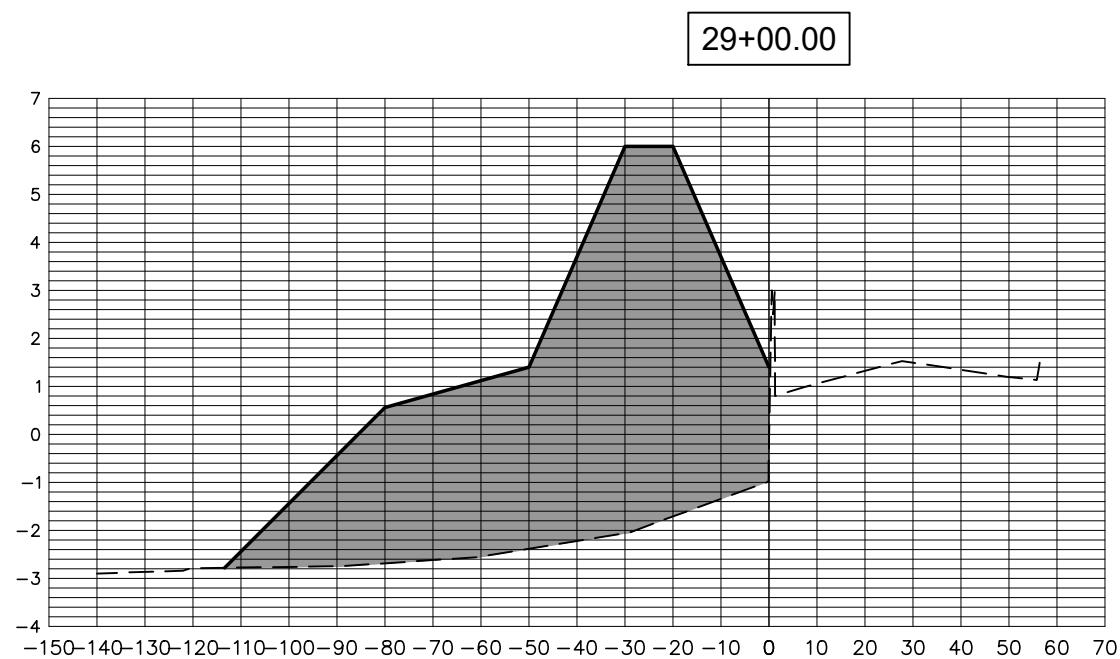
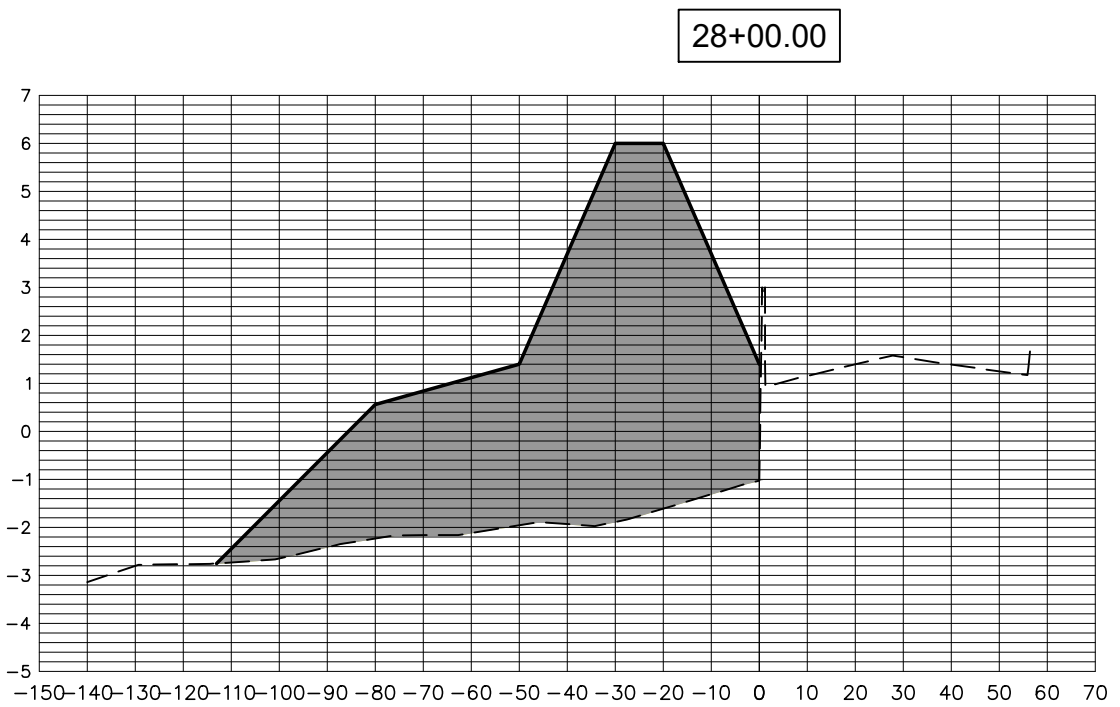
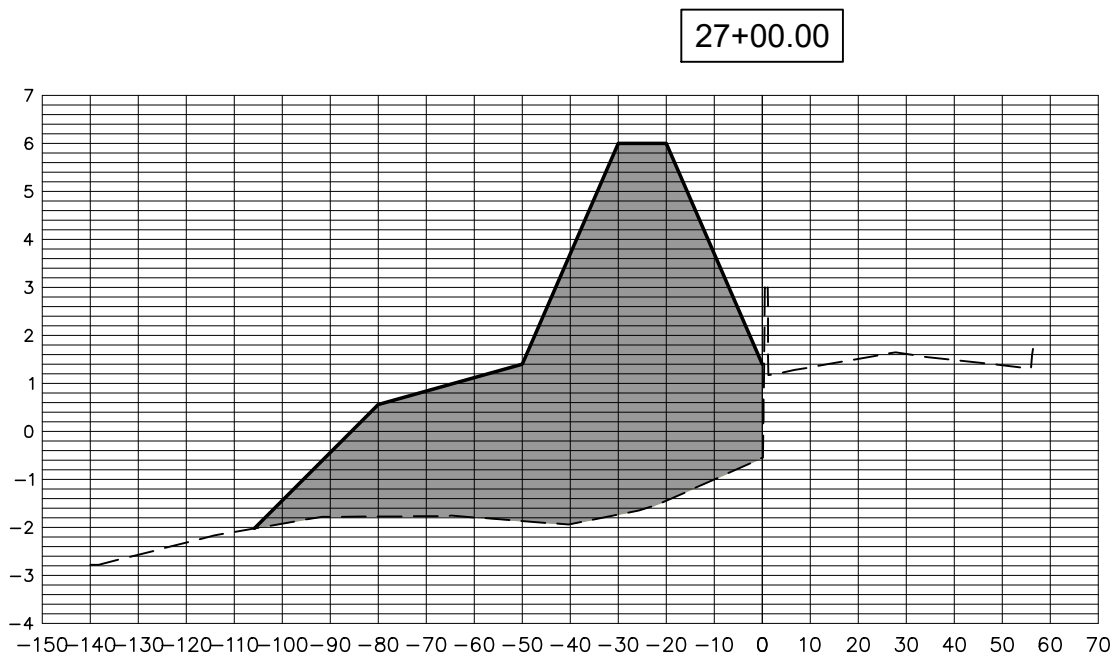
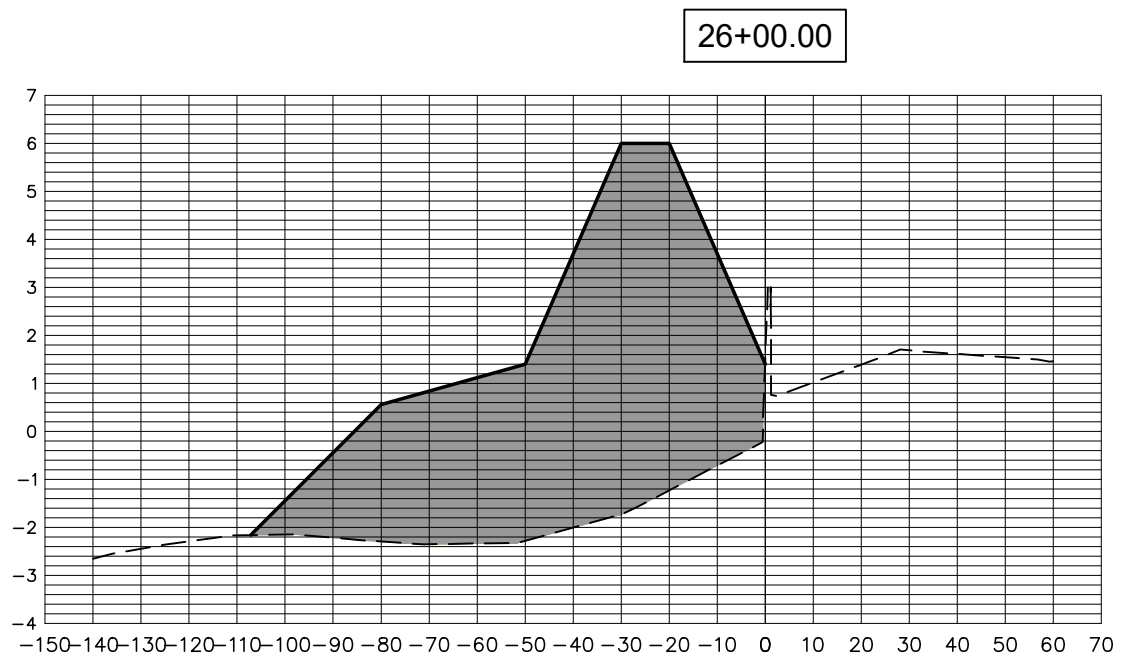
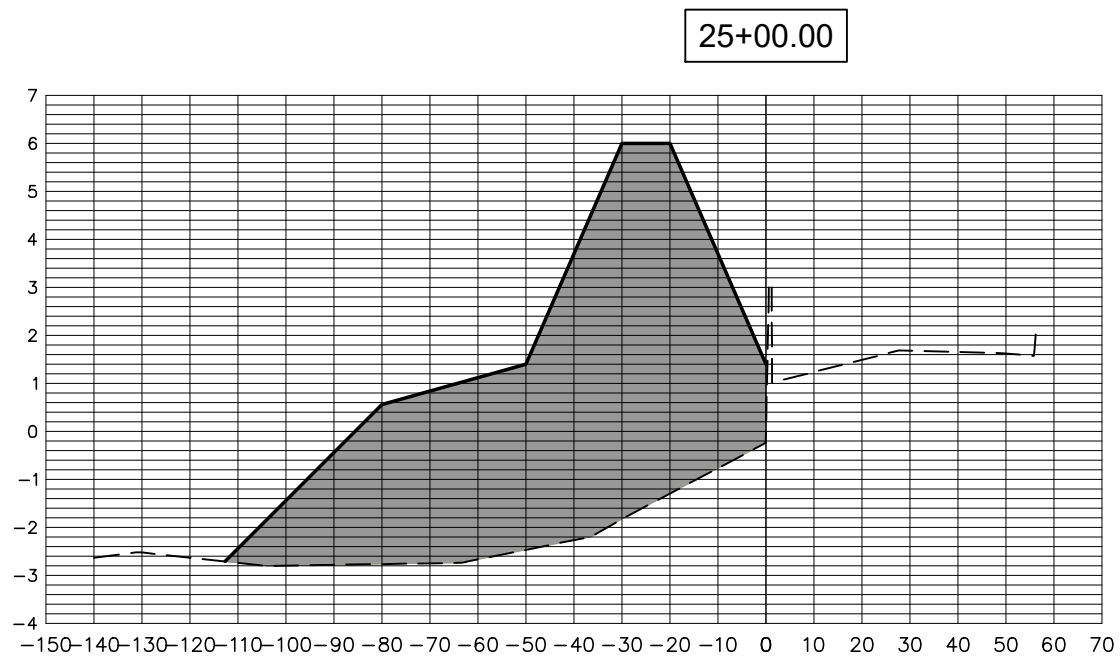
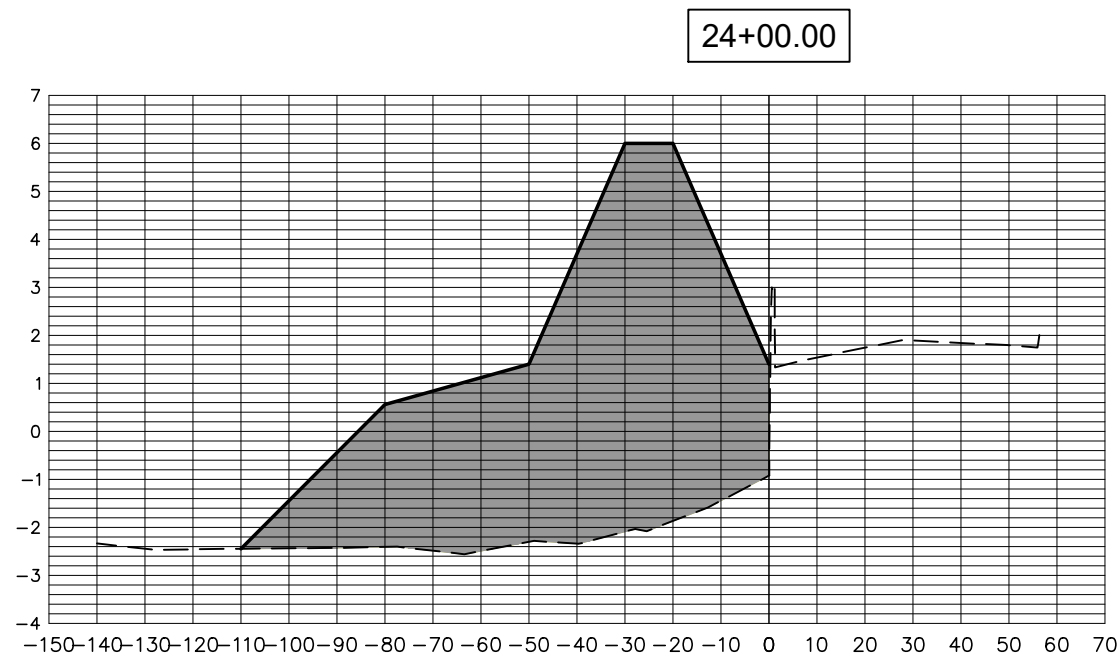
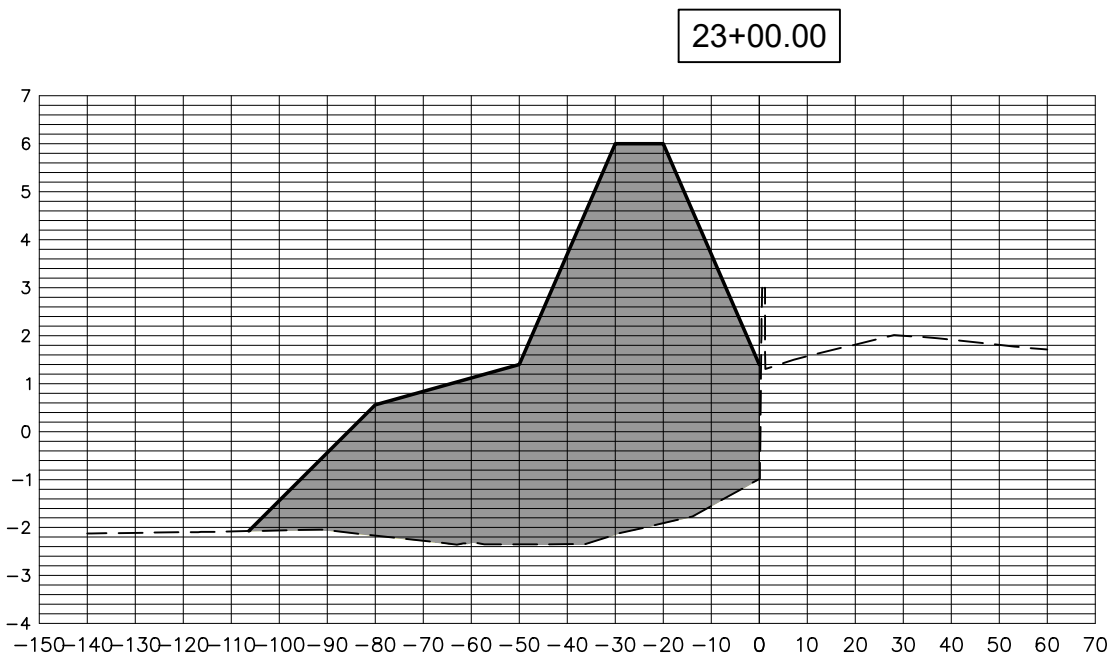
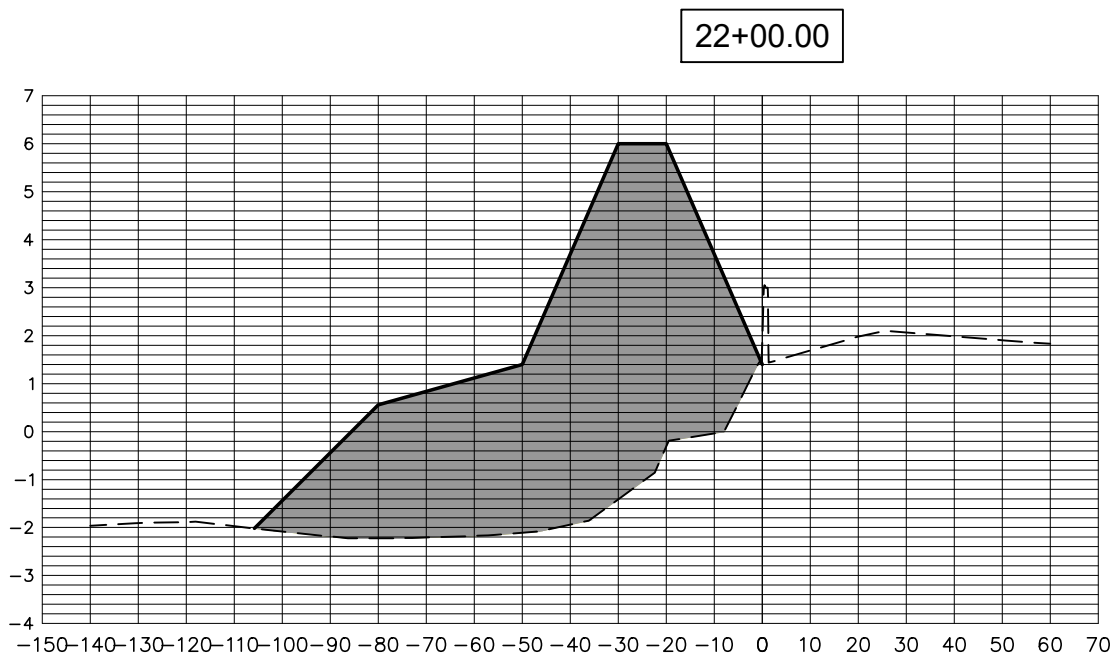
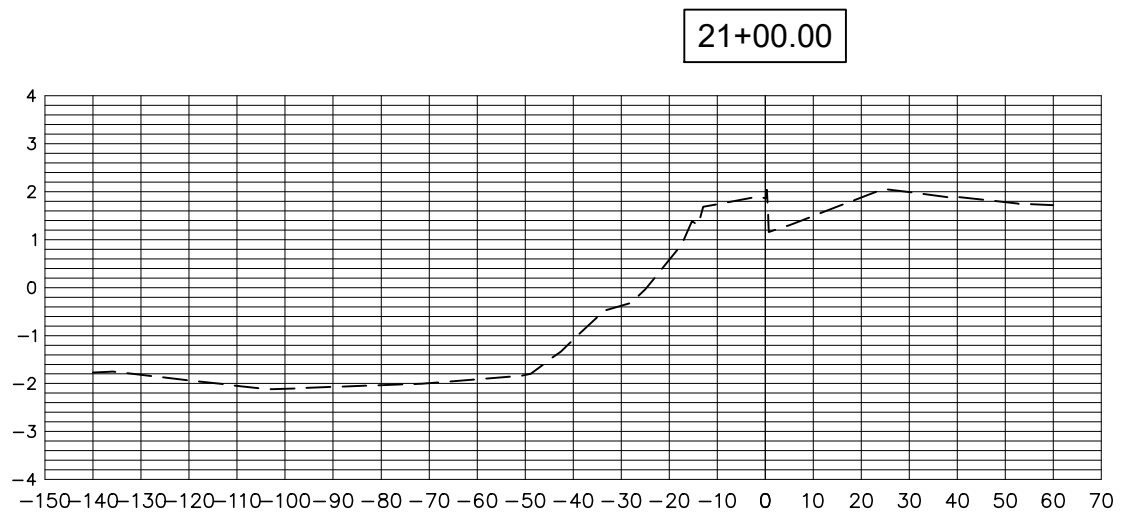
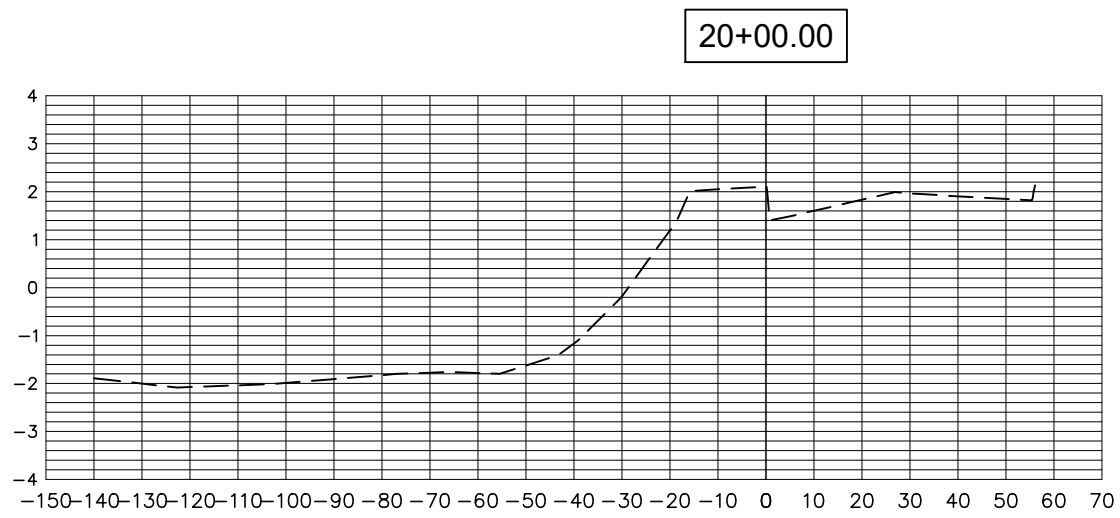
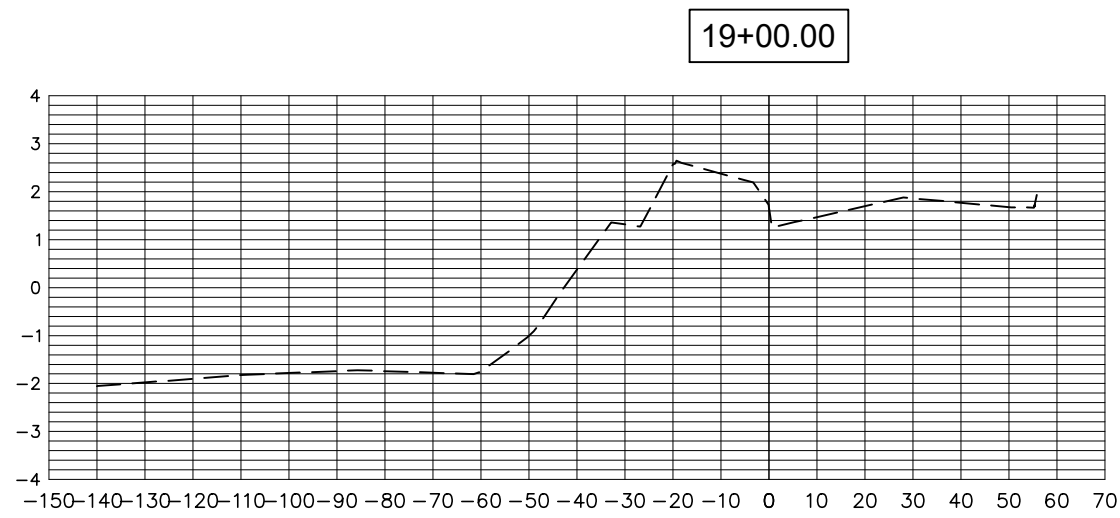
NO.	REVISION	DATE	BY	CHK
1	ADDED LOT 1, BLOCK 95 PER NJDEP REVIEW	10-12-21	BK	TD

PROPOSED IMPROVEMENTS PLAN

BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND LIVING SHORELINE PROJECT
BOROUGH OF SEASIDE PARK OCEAN COUNTY NEW JERSEY

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DATE:	SHEET No.:		
8 - 12 - 21	7 of 14		
JOB No.:			
1520 - U - 063			
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Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
19+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22+00.00	0.00	382.32	0.00	676.58	0.00	676.58	-676.58
23+00.00	0.00	437.98	0.00	1519.07	0.00	2195.65	-2195.65
24+00.00	0.00	449.19	0.00	1642.91	0.00	3838.56	-3838.56
25+00.00	0.00	448.59	0.00	1662.56	0.00	5501.11	-5501.11

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
26+00.00	0.00	413.85	0.00	1597.11	0.00	7098.22	-7098.22
27+00.00	0.00	393.06	0.00	1494.27	0.00	8592.49	-8592.49
28+00.00	0.00	430.86	0.00	1525.76	0.00	10118.25	-10118.25
29+00.00	0.00	459.21	0.00	1648.27	0.00	11766.52	-11766.52
30+00.00	0.00	461.15	0.00	1704.36	0.00	13470.88	-13470.88
31+00.00	0.00	430.80	0.00	1565.14	0.00	15036.03	-15036.03
32+00.00	0.00	435.97	0.00	1592.24	0.00	16628.27	-16628.27

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
33+00.00	0.00	448.77	0.00	1638.41	0.00	18266.67	-18266.67
34+00.00	0.00	452.72	0.00	1669.41	0.00	19936.09	-19936.09
35+00.00	0.00	446.77	0.00	1665.73	0.00	21601.82	-21601.82
36+00.00	0.00	387.65	0.00	1545.23	0.00	23147.04	-23147.04
37+00.00	0.00	314.10	0.00	1299.54	0.00	24446.59	-24446.59
38+00.00	0.00	209.34	0.00	969.35	0.00	25415.93	-25415.93
38+50.00	0.00	155.47	0.00	337.79	0.00	25753.73	-25753.73

CROSS SECTIONS

SCALE: HORIZONTAL = 1" = 40'
VERTICAL = 1" = 4'



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Alan B. Dittenhofer

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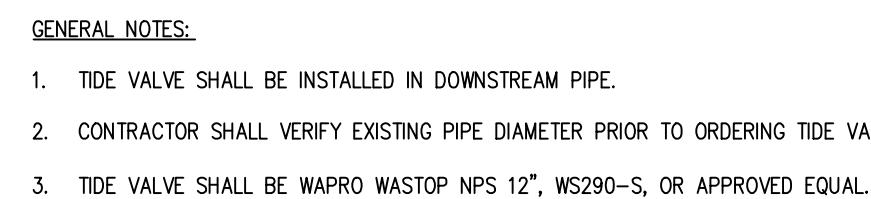
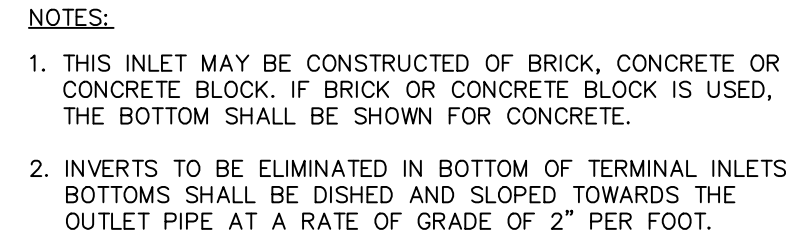
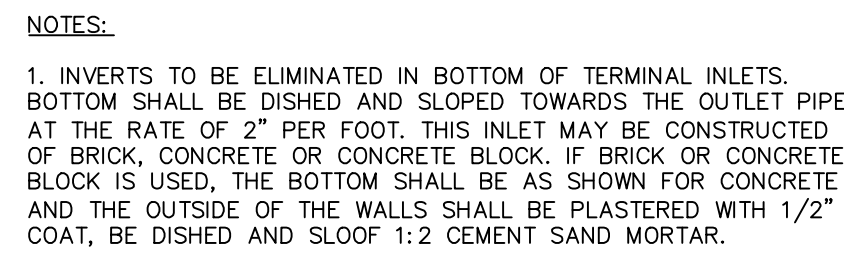
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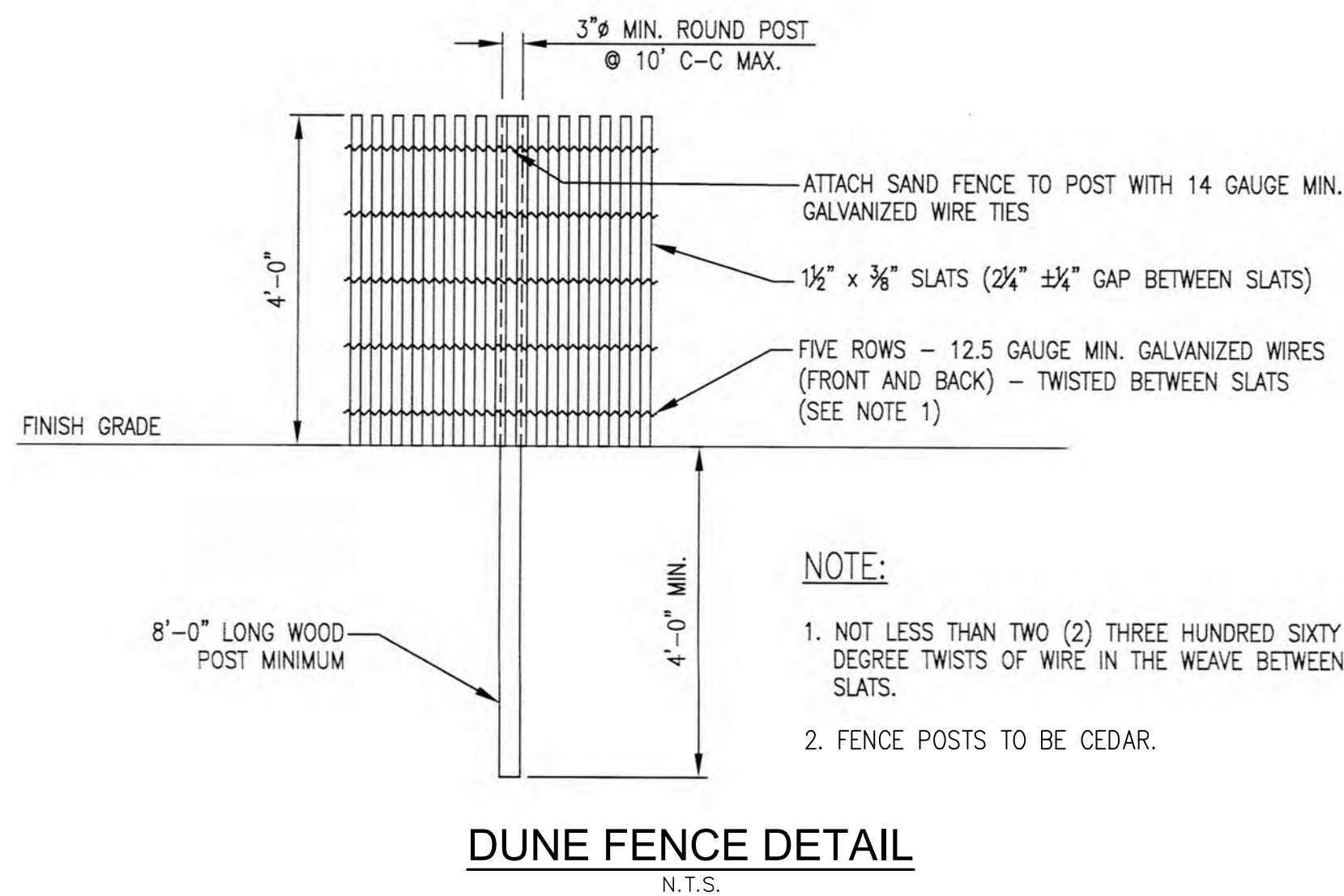
CROSS SECTIONS





BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND LIVING SHORELINE PROJECT
BOROUGH OF SEASIDE PARK OCEAN COUNTY NEW JERSEY

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8 - 12 - 21		8 of 14	
JOB No.:			
1528 - U - 063			

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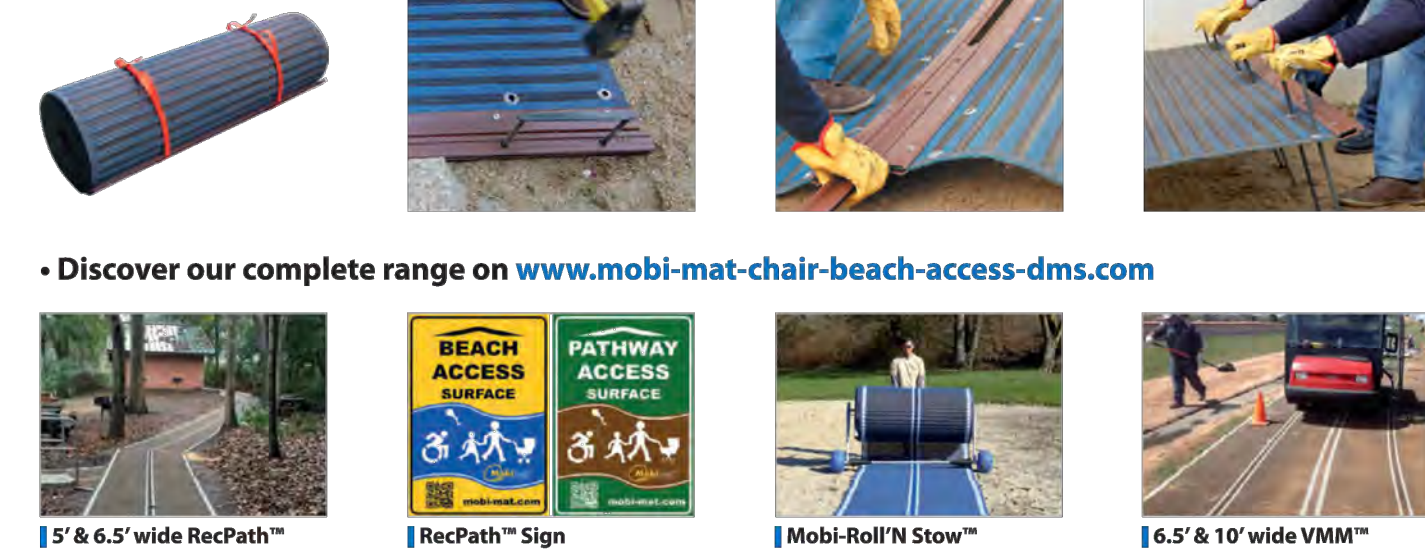
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Product Trade-mark	Material	Grade	Color	Part Number	Roll Dimensions*		Roll weight
					Width	Length	
 Mobi-Mat® Wings	 100% Recycled Polyester	 0.27	 Blue Jay	206 483	5' 1.53m	16.5' - 5m	22lbs - 10kg
				206 484		33' - 10m	45lbs - 20.5kg
				206 485		50' - 15.2m	68lbs - 31kg
				206 486		82' - 25m	111lbs - 50kg
				206 488		100' - 30.4m	135lbs - 61kg
				206 494	6.5' 1.98m	16.5' - 5m	29lbs - 13kg
				206 495		33' - 10m	58lbs - 26kg
				206 496		50' - 15.2m	88lbs - 40kg
				206 497		82' - 25m	144lbs - 65kg
				206 498		100' - 30.4m	176lbs - 80kg

* For any customized length, please contact us.
The installation sheet can be downloaded on www.mobi-mat-chair-beach-access-dms.com

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 **DESCHAMPS**
SINCE 1860

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Usine de Bourisson
16400 La Couronne - France
☎ : + 33 (0) 545 677 030
✉ : info@mobi-mat.com

DISTRIBUTOR

GENERAL NOTES:

1. ROLL-OUT BEACH ACCESS WALKOVER TO BE MOBI-MAT MODEL #206486 OR APPROVED EQUAL.

ROLL-OUT BEACH ACCESS WALKOVER
N.T.S.

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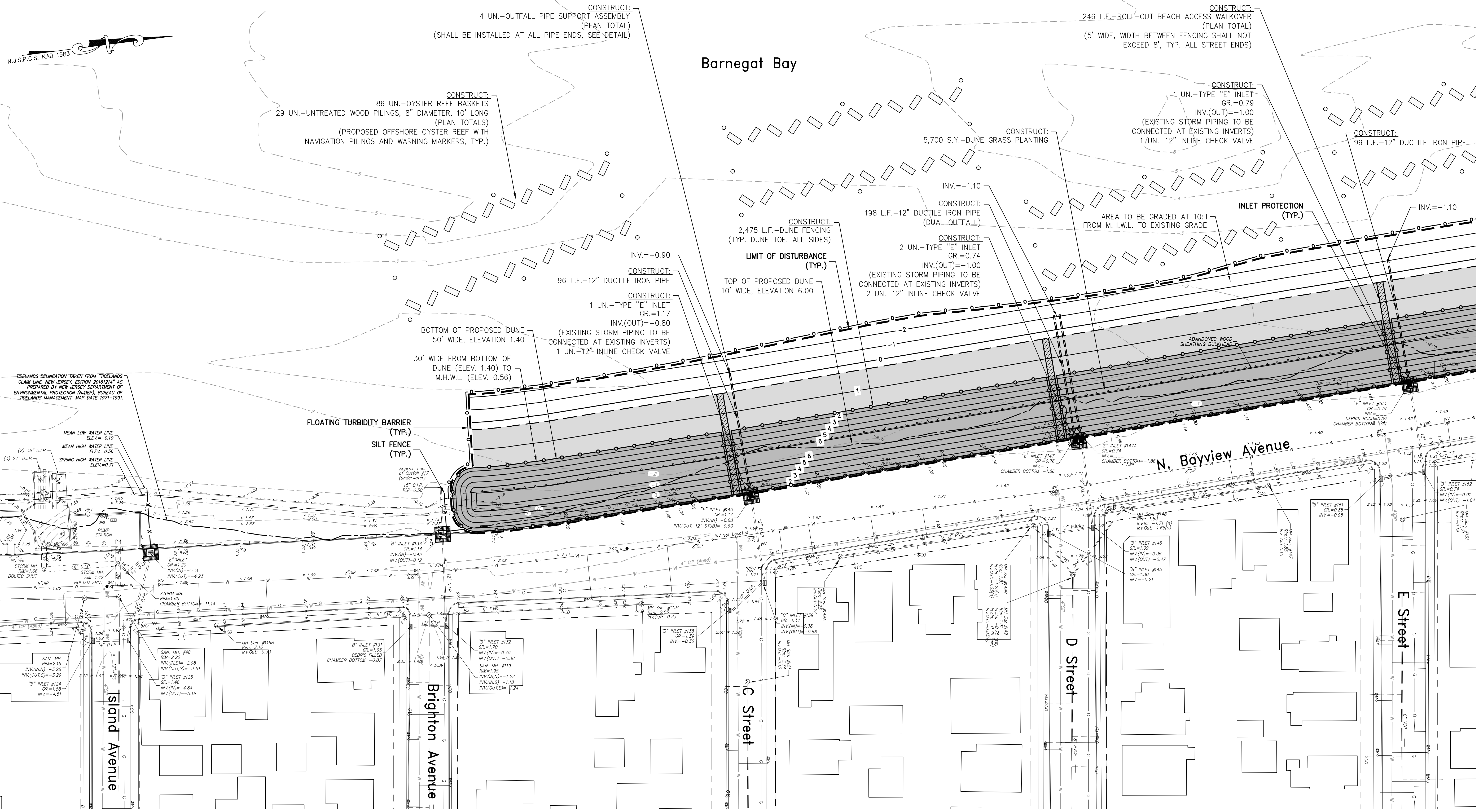
CONSTRUCTION DETAILS

BOROUGH OF SEASIDE PARK	H.M.G.P. WAVE ENERGY DISSIPATION AND LIVING SHORELINE PROJECT	OCEAN COUNTY	NEW JERSEY
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DATE: 8 - 12 - 21		SHEET No.: 10 of 14	
JOB No.: 1528 - U - 063			

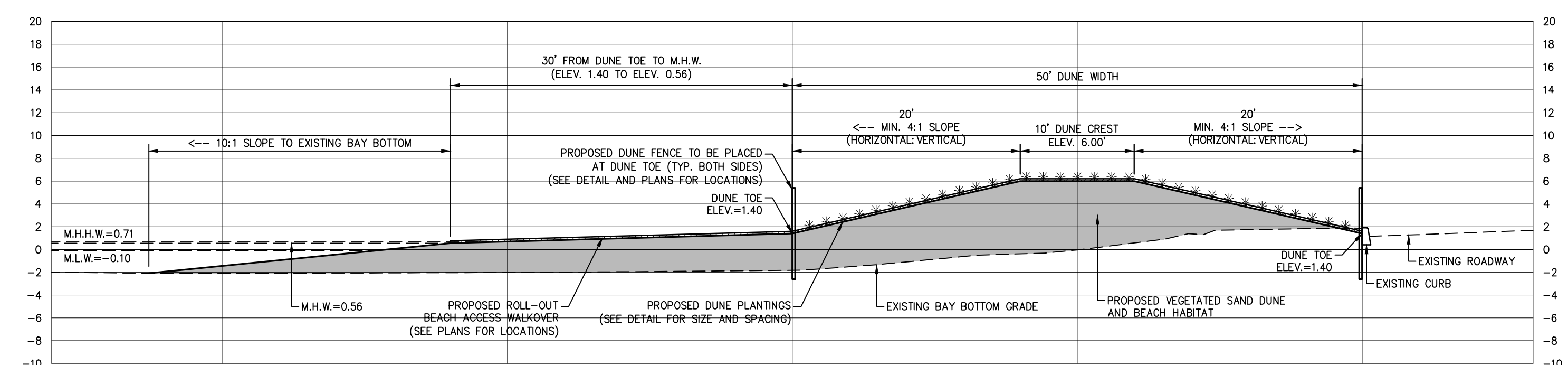
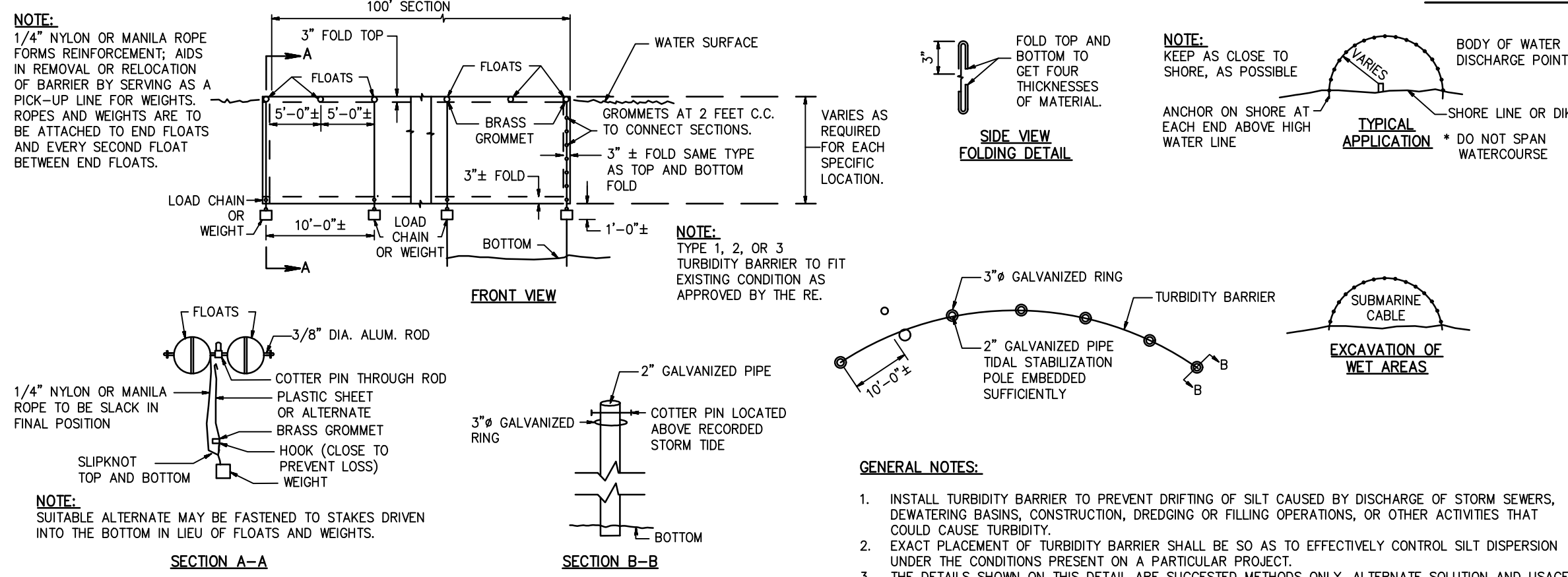
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SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 40'



TYPICAL DUNE SECTION

N.T.S.

S.E.S.C. NOTES:

1. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR, IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
2. PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE THE RESPONSIBILITY OF THE BOROUGH OF SEASIDE PARK.

SOIL EROSION AND SEDIMENT CONTROL PLAN

BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND LIVING SHORELINE PROJECT
BOROUGH OF SEASIDE PARK
OCEAN COUNTY
NEW JERSEY

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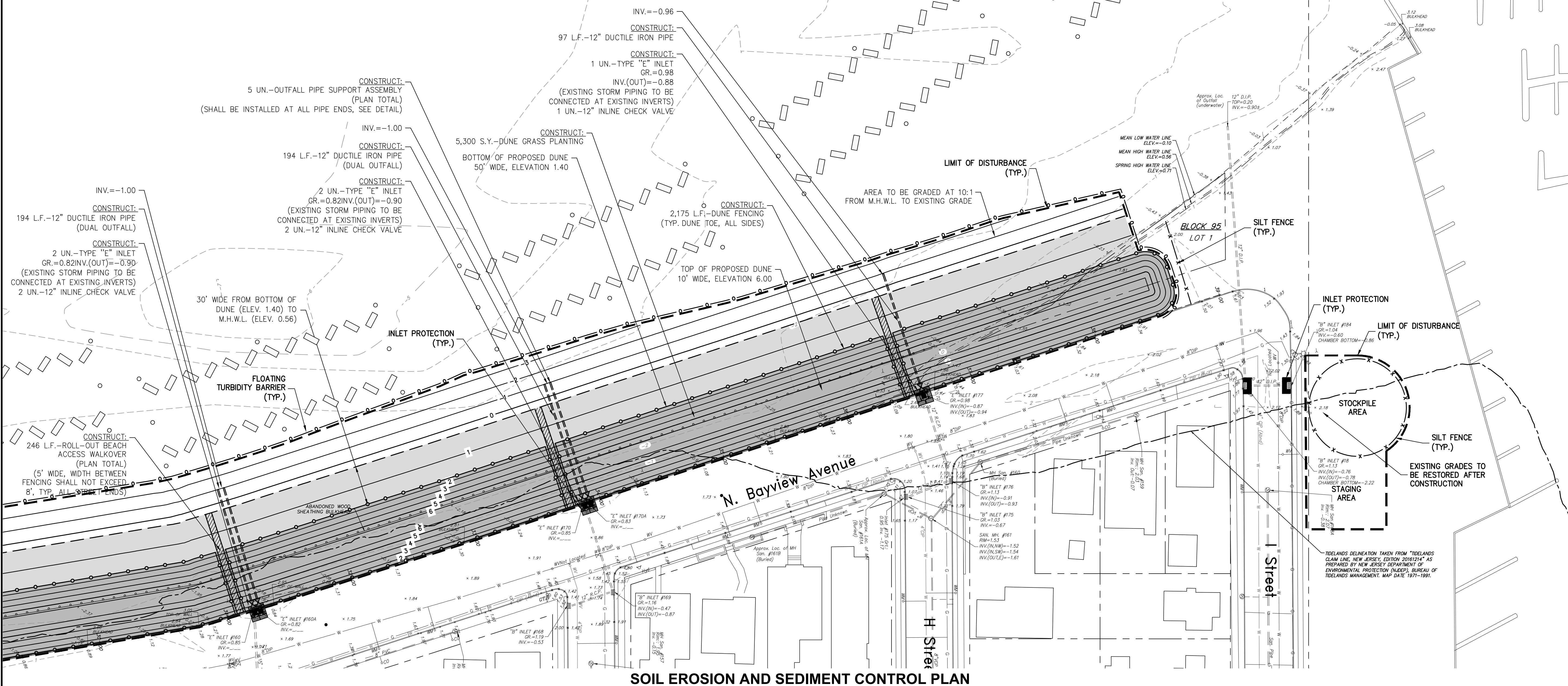
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NO.	REVISION	DATE	BY
2	REVISED PER OCSO LETTER, 8-14-21	12-2-21	BK
1	REVISED PER N.J.D.E.P. REVIEW	10-19-21	TD
1			NO

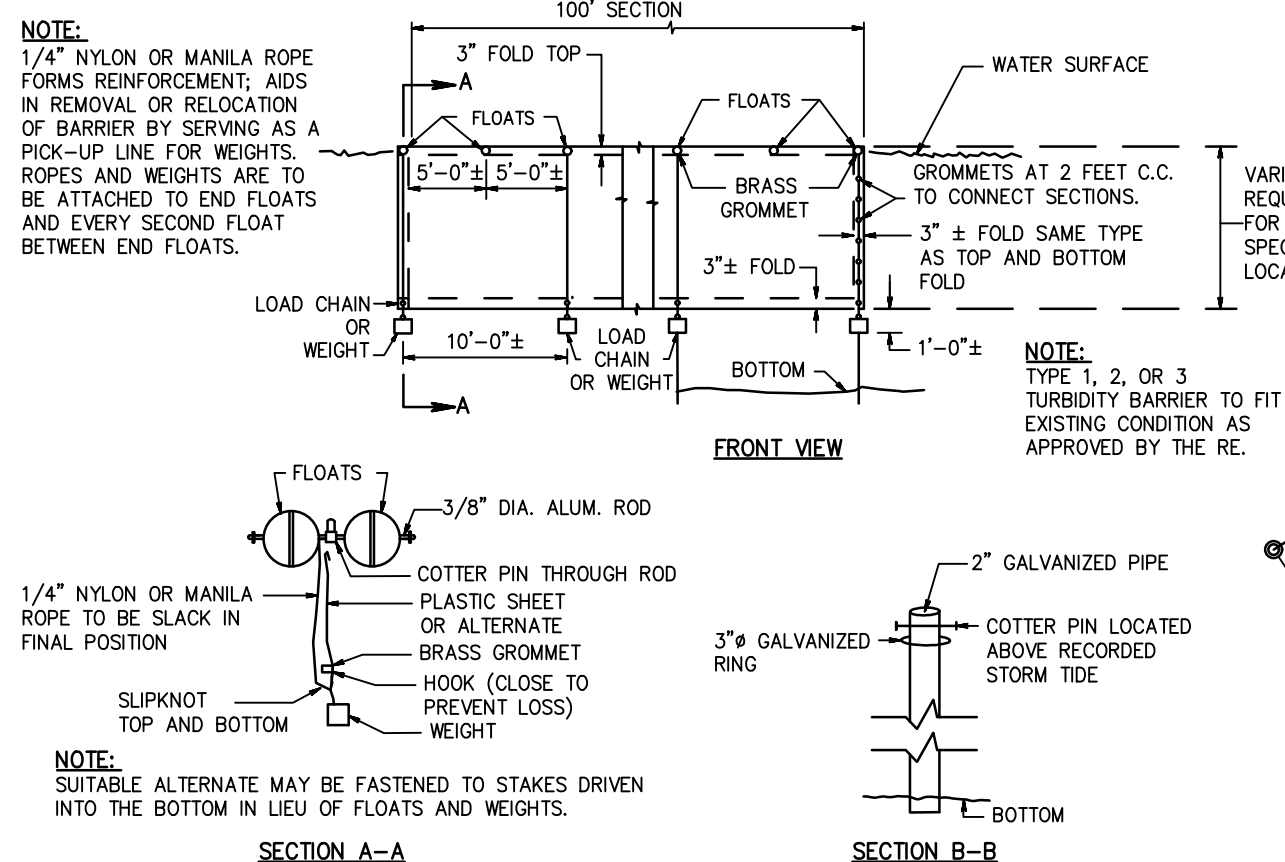
CONSTRUCT:
106 UN.-OYSTER REEF BASKETS
35 UN.-UNTREATED WOOD PILINGS, 8" DIAMETER, 10' LONG
(PLAN TOTALS)
(PROPOSED OFFSHORE OYSTER REEF WITH
NAVIGATION PILINGS AND WARNING MARKERS, TYP.)

Barnegat Bay



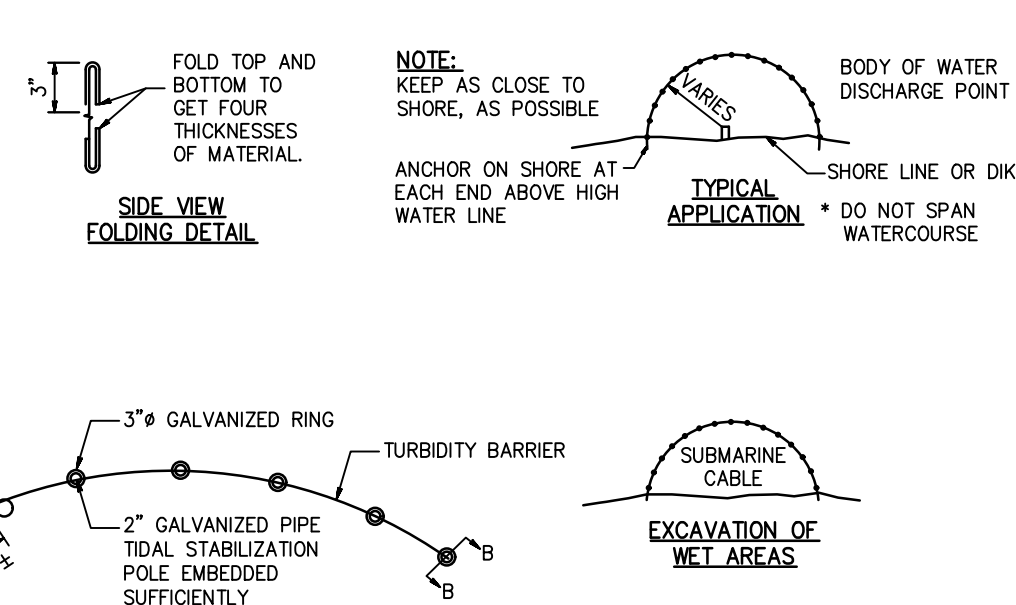
SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 40'

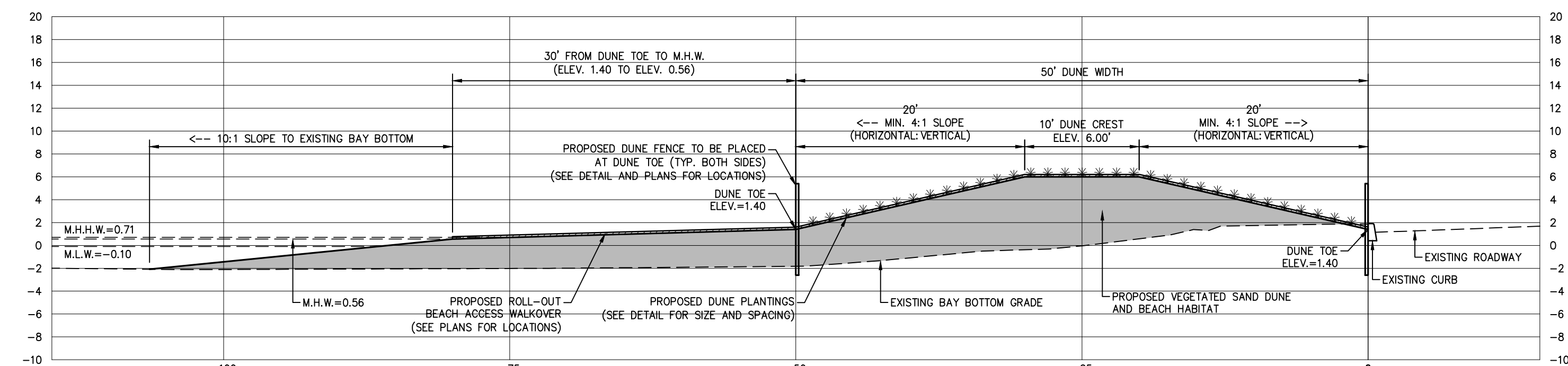


FLOATING TURBIDITY BARRIER DETAIL

N.T.S.



SCALE: 1" = 40'



TYPICAL DUNE SECTION

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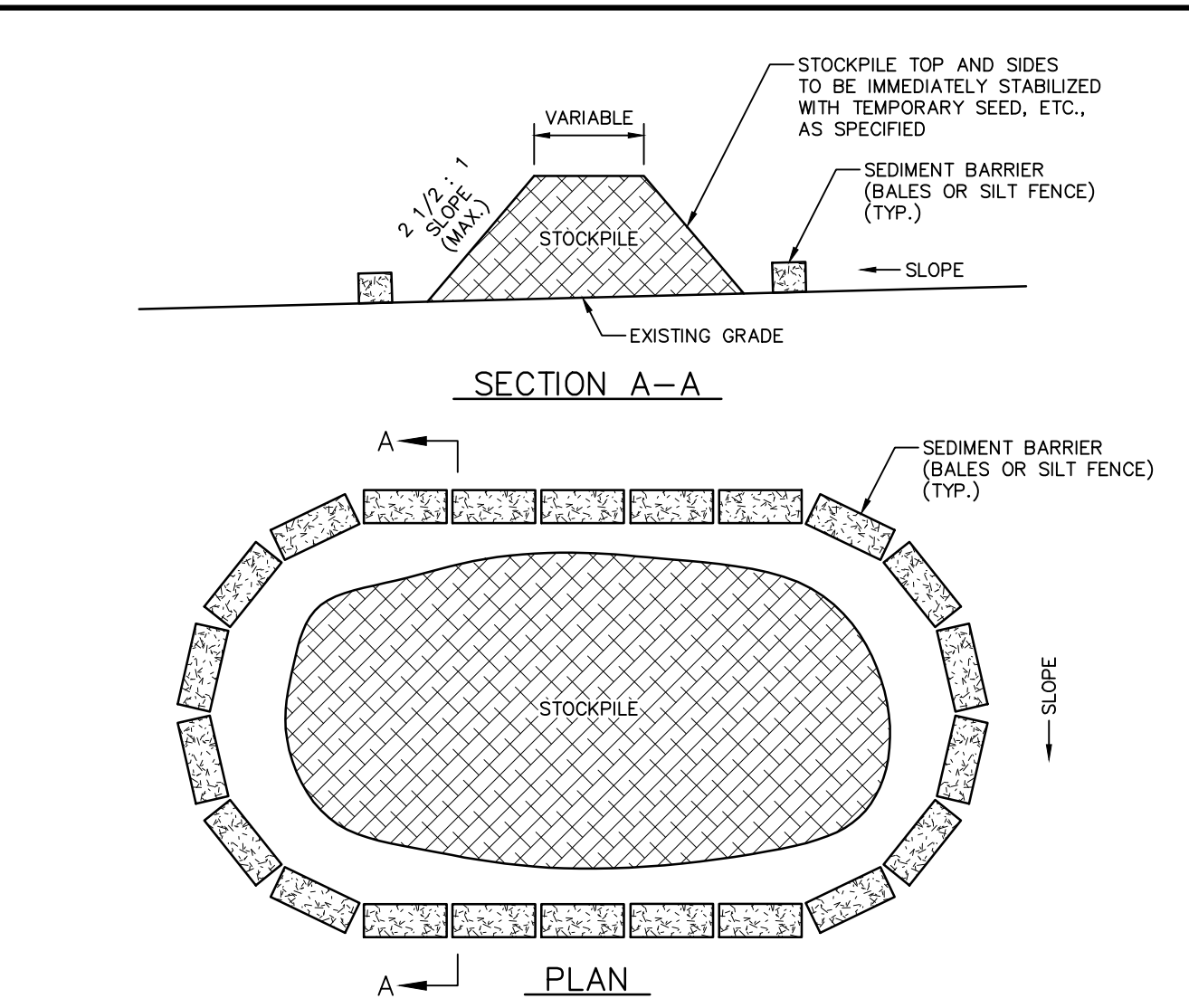
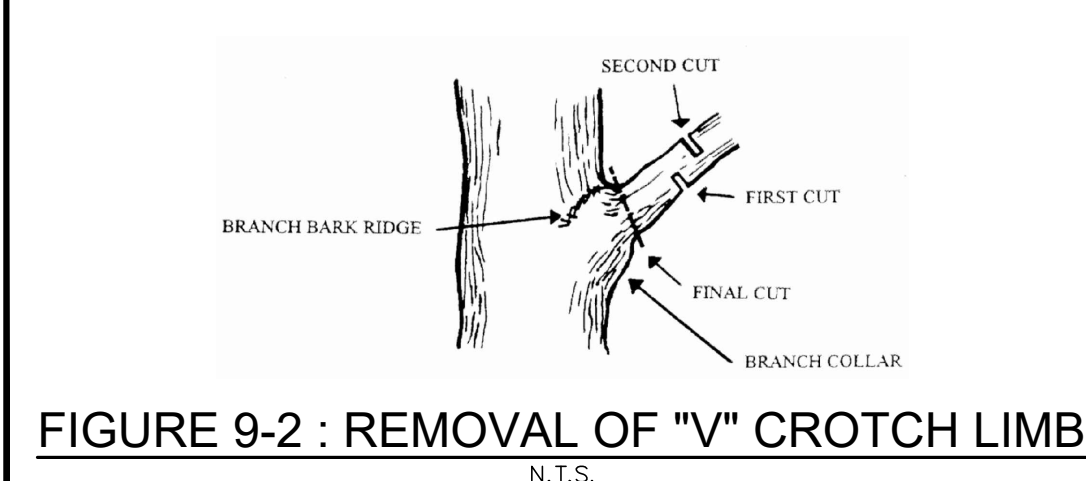
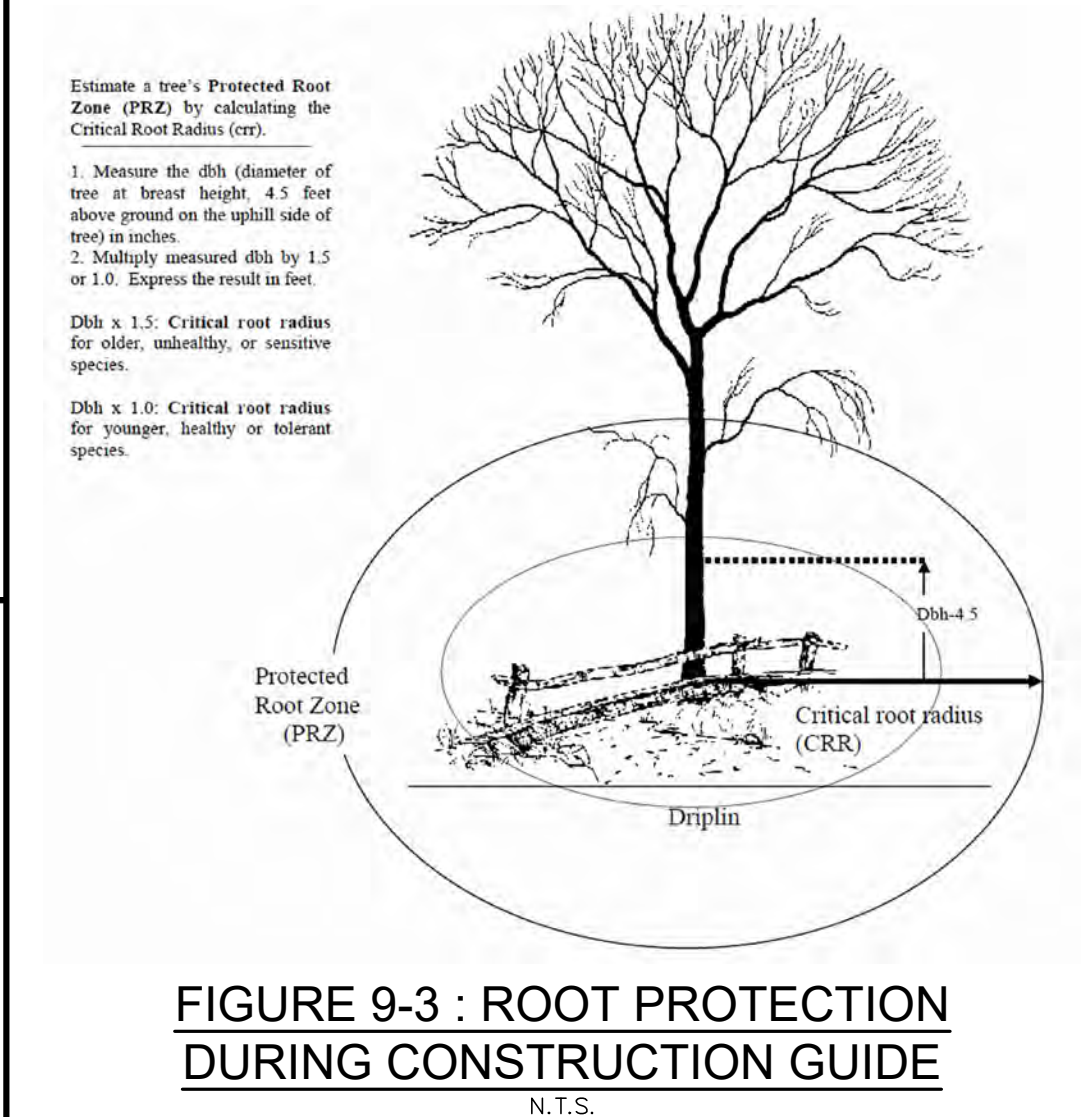
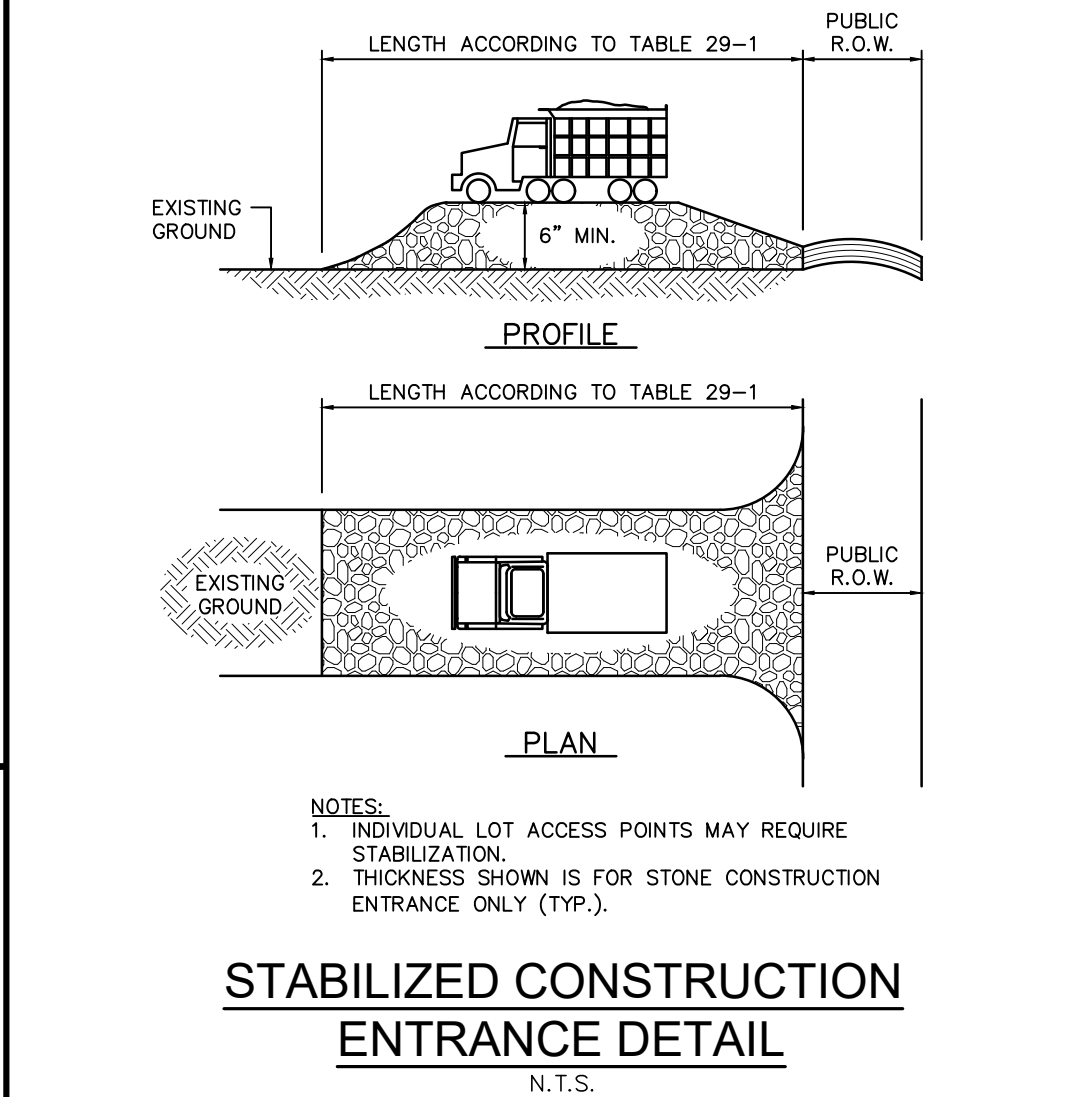
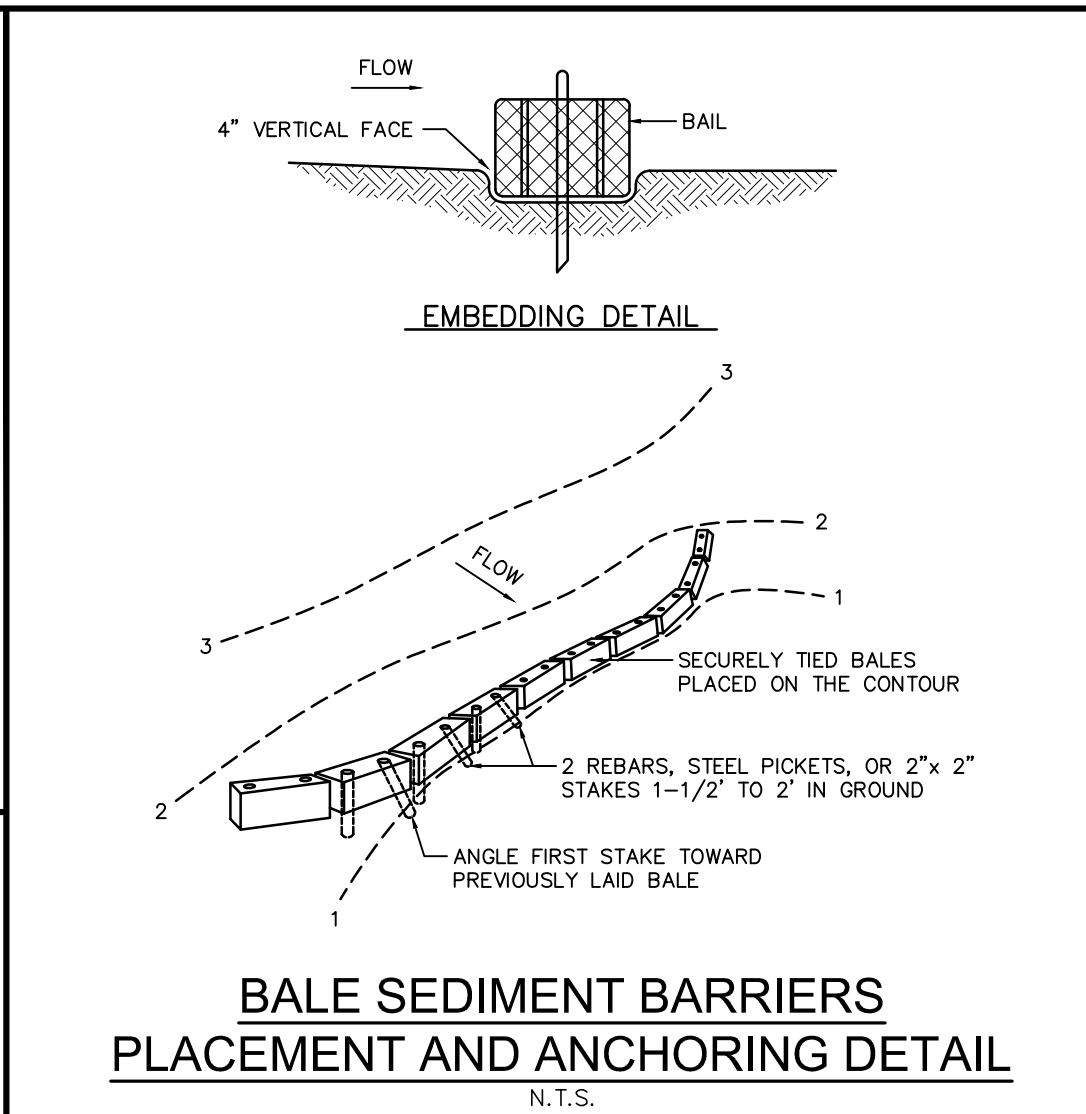
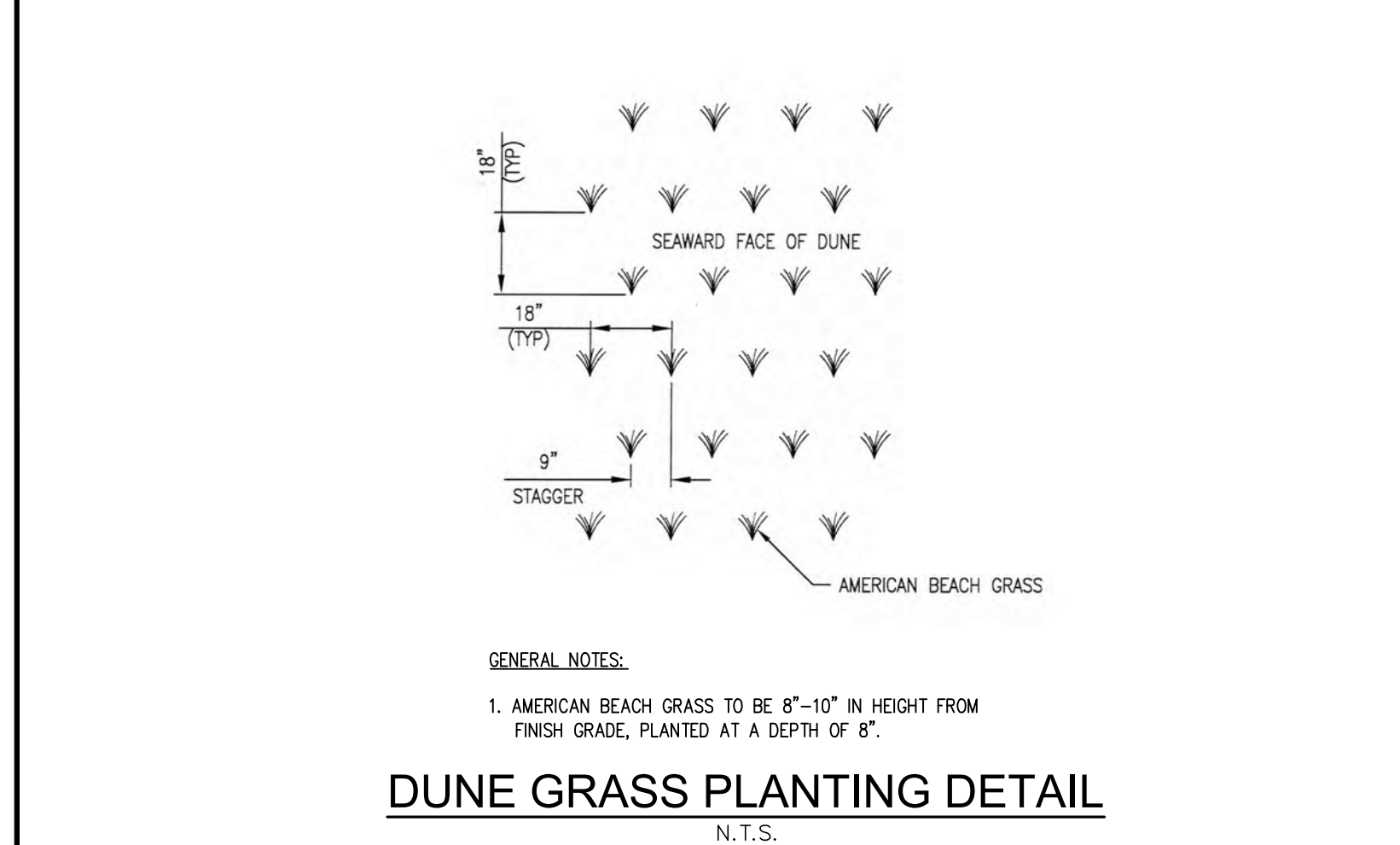
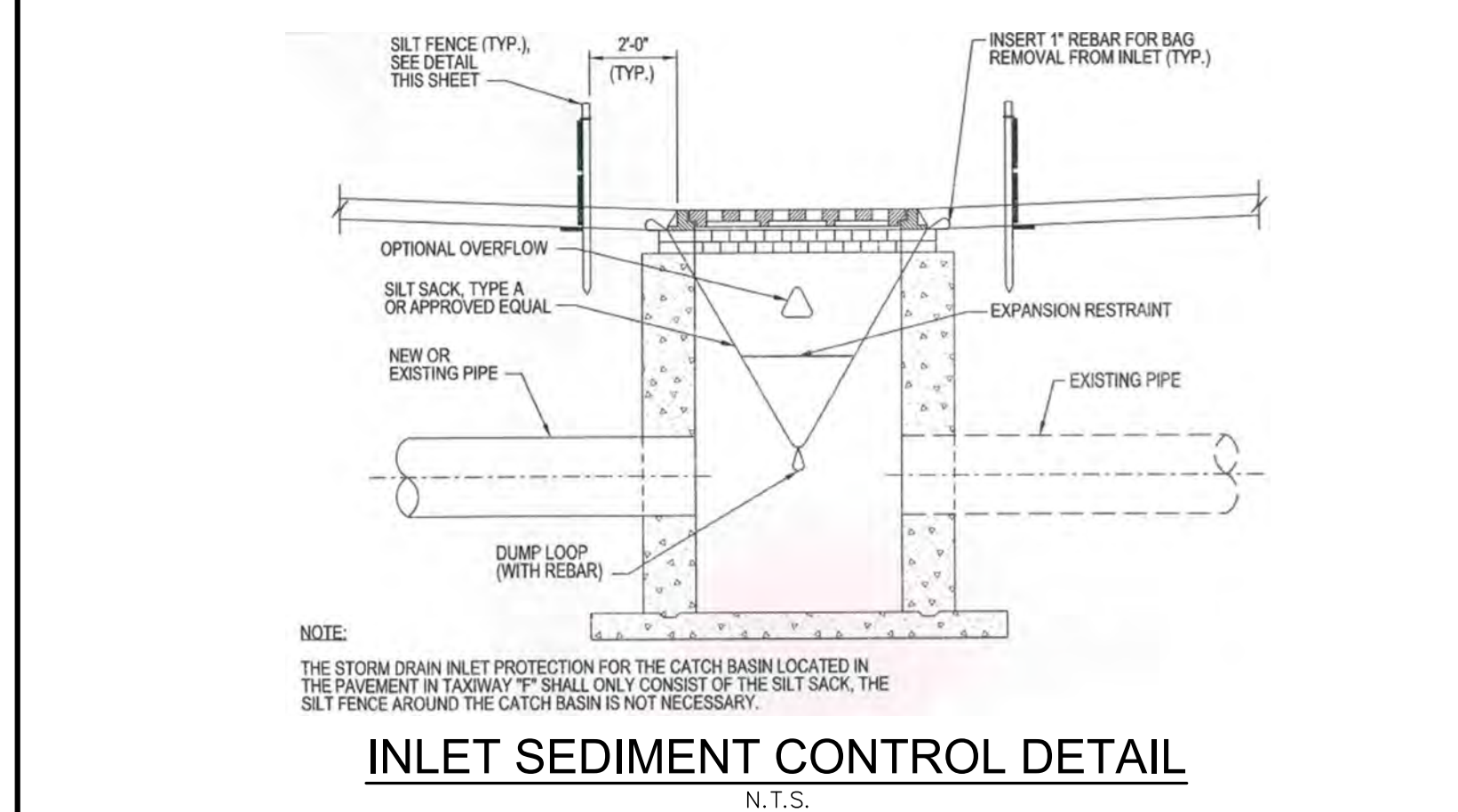
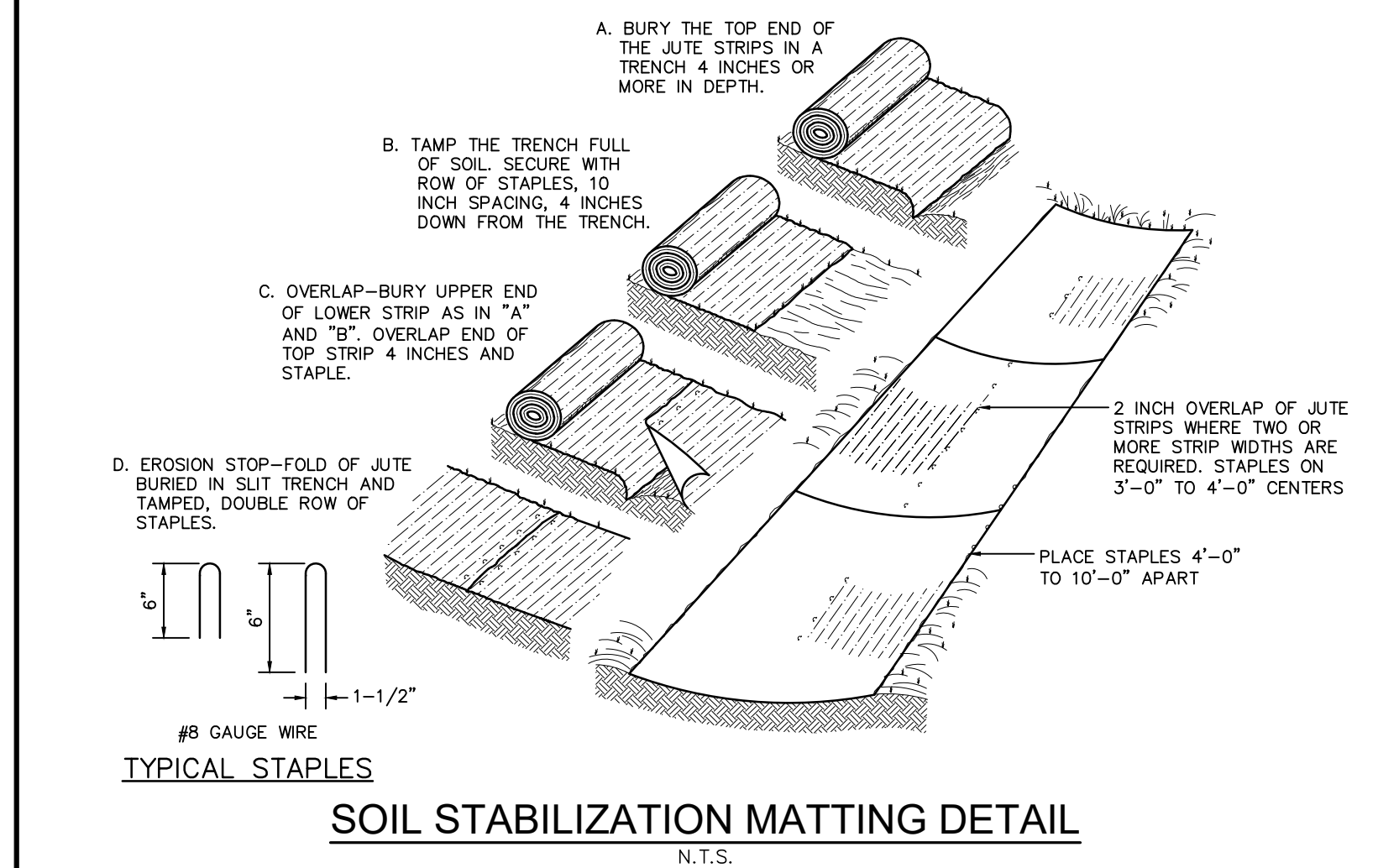
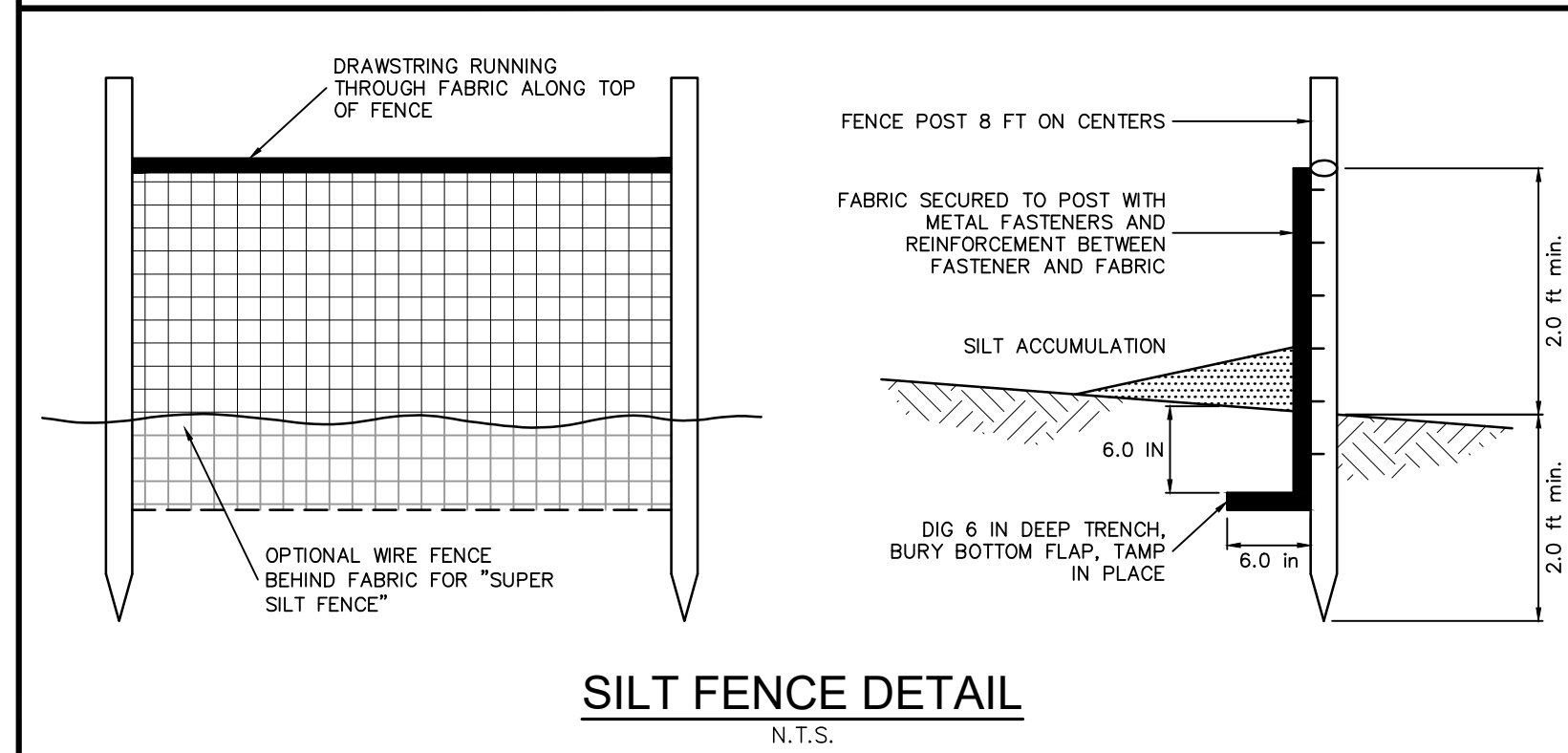
NO.	REVISION	DATE	BY	CHK
1	REVISED PER OSCD LETTER, 8-14-21	12-2-21	BK	TD

**SOIL EROSION AND SEDIMENT
CONTROL PLAN**

BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND LIVING SHORELINE PROJECT
OCEAN COUNTY
NEW JERSEY

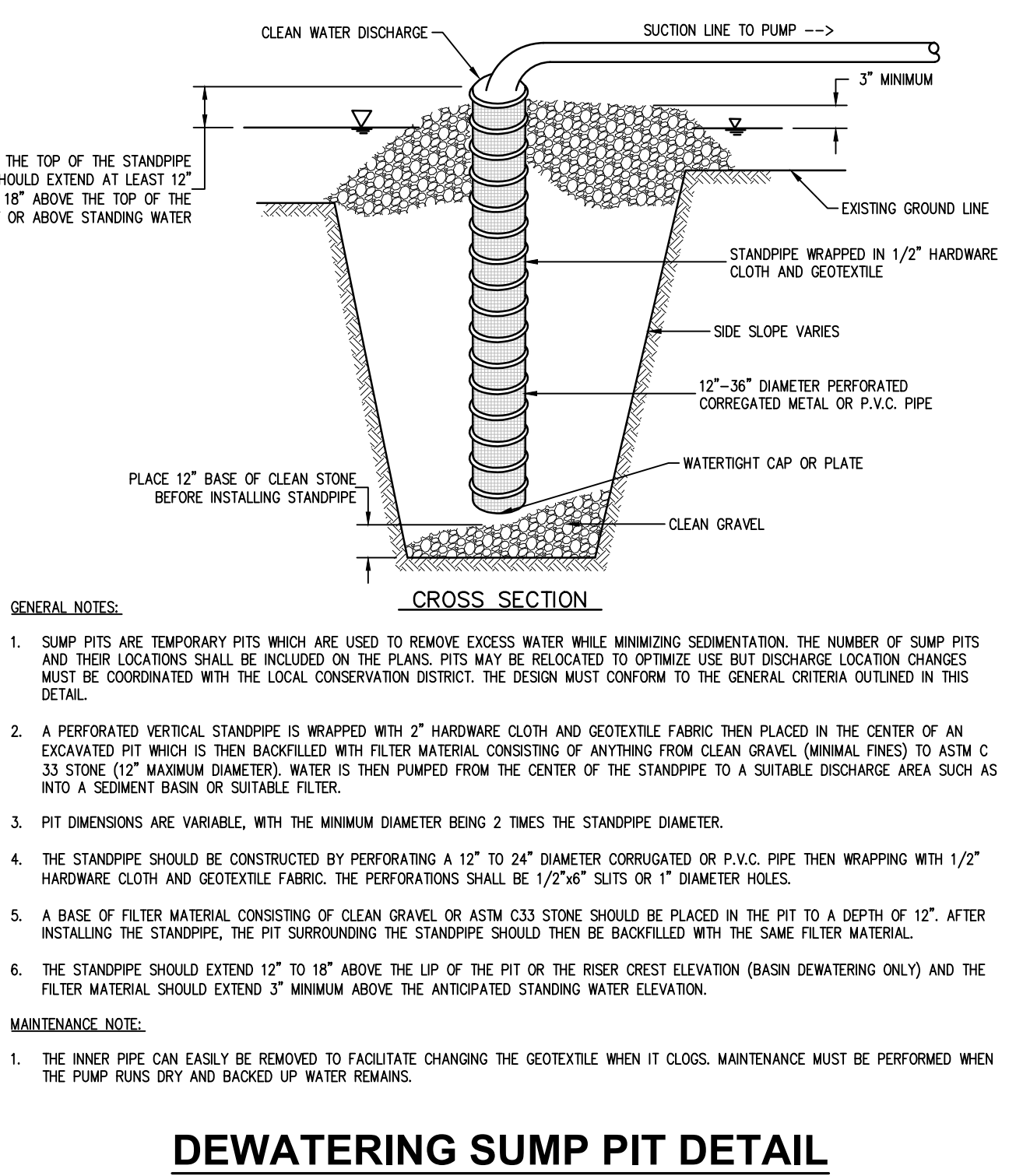
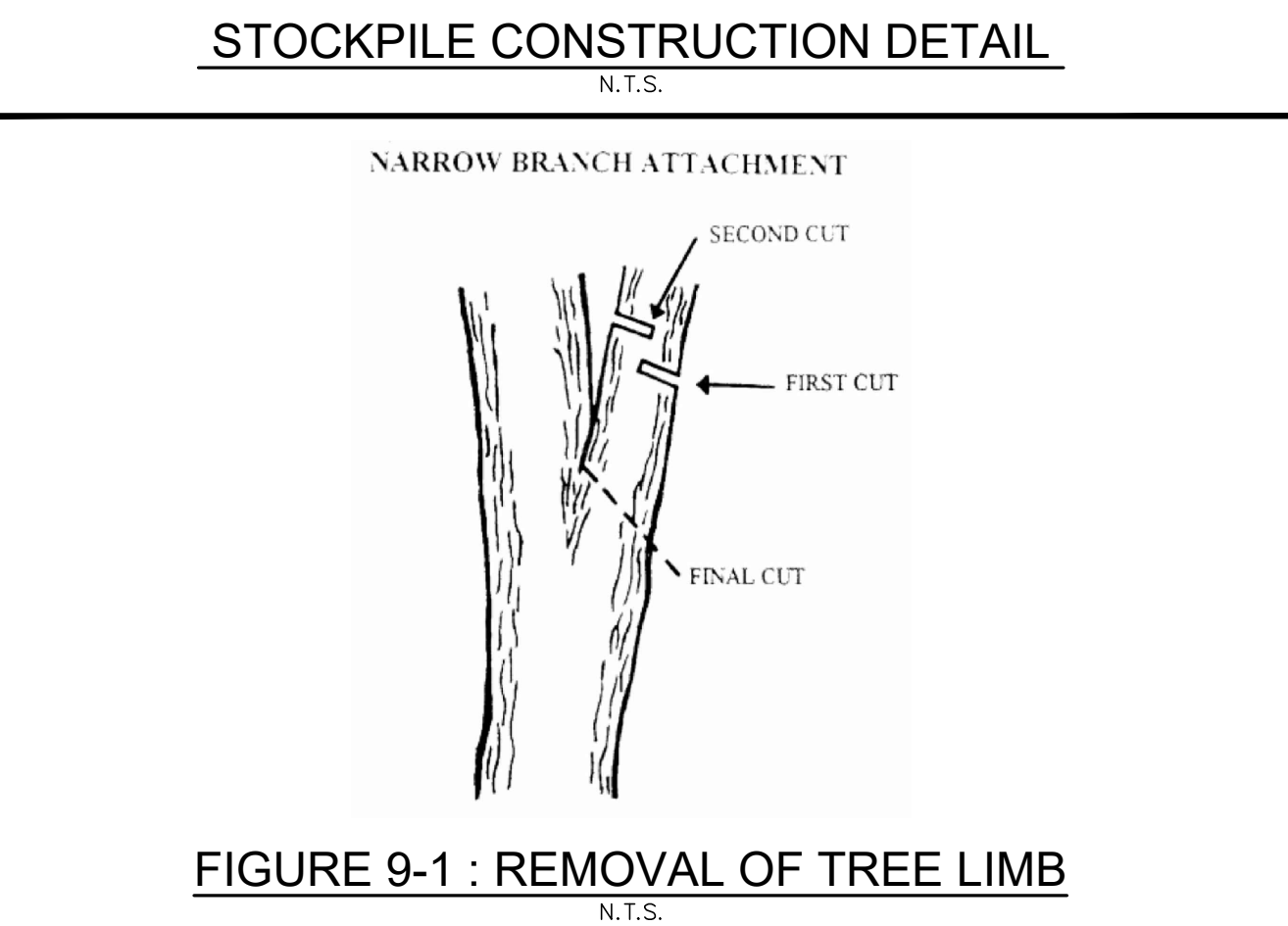
DESIGNED BY: PH / TD	CHECKED BY: PH	SCALE: AS SHOWN
DATE: 8-12-21	SHEET NO.: 12 of 14	
JOB NO.: 1520-U-063		
FILED NO.: N:\DRAW\Seaside Park\1520U063\U063-PLANS (2021)		

SOIL EROSION AND SEDIMENT CONTROL DETAILS



Stockpile Notes:
1. Stockpile to be placed as shown on the certified Soil Erosion and Sediment Control Plan.
2. Stockpile not to be placed in area with concentrated flow, wetlands, extreme slope, or within 100 feet of a natural stream.
3. Stockpile not to be placed within 20 feet of a property line.
4. Topsoil to be stockpiled separately from other excavated material.
5. Stockpiles shall not be located within fifty (50) feet of a flood plain, steep slope, drainage facility, or roadway. All stockpile bases shall be protected by a hay bale barrier or sediment fence.
6. All topsoil stripped and stockpiled for use in final grading shall receive temporary seeding.
7. Weeds should not be allowed to grow on stockpiles.

Topsoil Stockpile Protection:
1. Apply limestone based on soil testing results.
2. Apply fertilizer (10-20-10). (Rates to be established via soil testing.)
3. Apply perennial ryegrass at a rate of 1 lb./1,000 sq. ft.
4. Mulch with unruffed salt hay or small grain straw immediately after seeding. Apply at a rate of 90 lbs./1,000 sq. ft.
5. Liquid Mulch Binders may be used to anchor mulch.



Product Trade-mark	Material	Grade	Color	Part Number	Roll Dimensions*		Roll weight	Anchorage included in the kit:
					Width	Length		
Mobi-Mat® Wings	100% Recycled Polyester	0.27	Blue Jay	206 483	16.5' - 5m	16.5' - 5m	22lbs - 10kg	• X connection • Staples
				206 484	33' - 10m	45lbs - 20.5kg		
				206 485	50' - 15.2m	68lbs - 31kg		
				206 486	82' - 25m	111lbs - 50kg		
				206 488	100' - 30.4m	135lbs - 61kg		
				206 494	16.5' - 5m	29lbs - 13kg		
				206 495	33' - 10m	58lbs - 26kg		
				206 496	50' - 15.2m	88lbs - 40kg		
				206 497	82' - 25m	144lbs - 65kg		
				206 498	100' - 30.4m	176lbs - 80kg		

* For any customized length, please contact us.
The installation sheet can be downloaded on www.mobi-mat-chair-beach-access-dms.com

Each kit is equipped with end connectors and eyelets to insert the staples provided in the kit.

• The installation sheet can be downloaded on www.mobi-mat-chair-beach-access-dms.com

• Discover our complete range on www.mobi-mat-chair-beach-access-dms.com

5' & 6.5' wide RecPath™
RecPath™ Sign
Mobi-Roll™ Stow™
6.5' & 10' wide VMM™

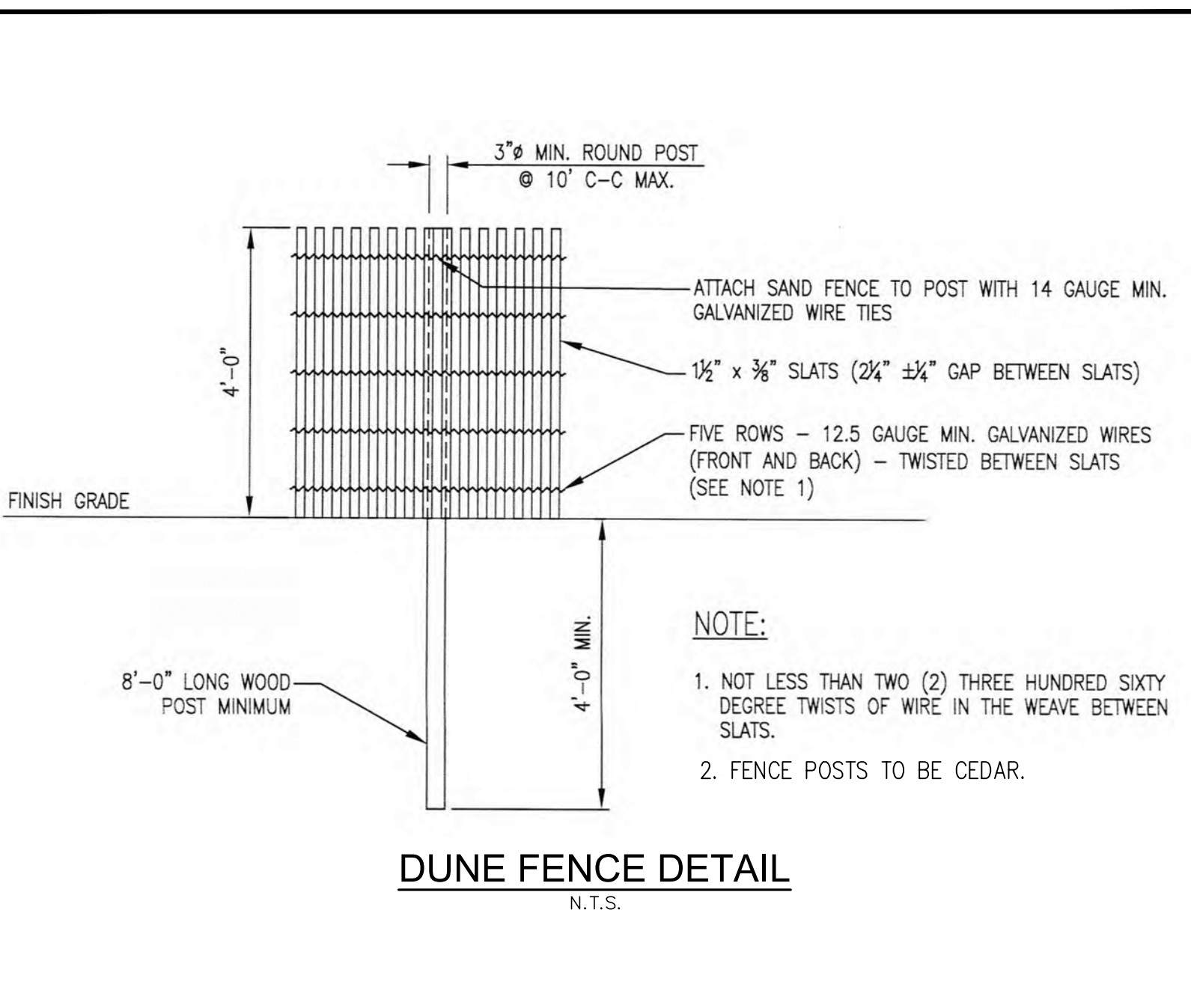
Mobi-mat®
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company/deschamps

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☎ : + 33 (0) 545 677 030
✉ : info@mobi-mat.com

DISTRIBUTOR

GENERAL NOTES:
1. ROLL-OUT BEACH ACCESS WALKOVER TO BE MOBI-MAT MODEL #206486 OR APPROVED EQUAL.

ROLL-OUT BEACH ACCESS WALKOVER
N.T.S.



RVE
1901
REMINGTON & VERNICK ENGINEERS
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WEB SITE ADDRESS : WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

ALAN B. DITTENHOFER
ALAN B. DITTENHOFER
NJ PROFESSIONAL ENGINEER LIC. NO. 37672

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	REVISION	DATE	BY	CHK
1	REVISION PER OCSO LETTER, 8-1-21	12-2-21	BK	TD

SOIL EROSION AND SEDIMENT CONTROL DETAILS

BOROUGH OF SEASIDE PARK
H.M.G.P. WAVE ENERGY DISSIPATION AND LIVING SHORELINE PROJECT
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