

THIS IS NOT A PAID ADVERTISEMENT



**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. Date

CENAP-OPR-2020-00820

Application No. File No.

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: Borough of Ocean Gate

AGENT: Remington and Vernick Engineers

WATERWAYS Tom's River

LOCATION: Various waterfront locations along E. Riviera Ave. from a point just west of Ocean Gate Avenue to a point just west of Narragansette Avenue, Borough of Ocean Gate, Ocean County, New Jersey

ACTIVITY: To perform beach and dune restoration and to construct wave attenuation and dissipation structures along approximately 1 mile of waterfront. The project would include the discharge of approximately 10,000 cubic yards of fill materials into approximately 3 acres of waters below the high tide line. The fill will be placed at 6 locations along the 1-mile stretch of beach for dune construction. These locations are, going west to east, as described below.

1. This site starts at a point just west of the intersection of West Riviera and Ocean Gate Ave. The proposed work at this location entails the removal of 33 linear feet of existing concrete breakwater and the discharge of 1,178 cubic yards of fill into 0.278 acre of waters below the high tide line for placement of concrete mats and sand cover,
2. This site starts at location just east of the intersection of East Riviera between Ocean Gate Ave. and Asbury Ave. The proposed work at this location entails the removal of 50 linear feet of existing concrete breakwater, extension of an existing pile-supported stormwater outfall pipe by 30 linear feet (extending 56 feet waterward of the mean high water line), and the discharge of 761 cubic yards of sand into 0.238 acre of waterway below the high tide line along 290 linear feet of waterway,

3. This site starts at a location along East Riviera between Asbury and Wildwood Avenues. The proposed work at this location entails the discharge of 1,040 cubic yards of sand cover into 0.347 acre of waterway below the high tide line along 400 linear feet of waterway,
4. This site starts at a location along East Riviera Ave. between a point east of Wildwood Ave. and just west of Stone Harbor Ave. The proposed work at this location entails the discharge of 79 cubic yards of sand cover into 0.065 acre of waterway below the high tide line along 230 linear feet of waterway along,
5. This site starts at a location along East Riviera Ave. between points just east of Monmouth Ave. and a point just east of Anglesea Ave. The proposed work at this location entails the removal of an existing 95 foot long wooden breakwater, relocation of an existing 373 linear foot shore-parallel concrete breakwater partially landward, at, and partially just waterward of the high tide line, removal of an existing 57 foot long breakwater, and the discharge 3,403 cubic yards of sand cover into 0.927 square feet below the high tide line, and
6. This site starts at a location along East Riviera between points just east and west of Newport Ave. to a point just west of Narragansett Ave. The proposed work in this location entails the removal of an existing 97 foot long wooden breakwater, extend an existing pile-supported stormwater outfall by 30 linear feet (extending 77 feet waterward of the mean high water line), and discharge 2,198 cubic yards of sand cover for beach and dune construction into 0.676 acre below the high tide line.

Additionally, dunes would be constructed along the entire length of waterway above the high tide line. A floating turbidity curtain would be deployed along each stretch of project as it occurs to minimize turbidity. The project would also involve the removal or re-location of existing Jersey barrier “beach prisms” that were approved for placement by this office in 2012 under CENAP-OP-R-20212-00309.

The applicant has also noted the following items.

1. The outfall extension between Ocean Gate Avenue and Asbury Avenue would involve the placement of ten (10) composite fiberglass/lumber piles. The installation of these piles will utilize a “soft start” and warning shot for hammer/vibratory driving methods,
2. The outfall extension at Newport Avenue would involve the placement of ten (10) composite fiberglass/lumber piles. The installation of these piles will utilize a “soft start” and warning shot for hammer/vibratory driving methods.
3. Each breakwater removal would be completed by pulling the breakwater with a loader at low tide.

PURPOSE: The applicant’s stated project purpose is to protect the Borough's structures, essential services, infrastructure and utilities from damage due to minor and major flooding events, including wave action which results in damage to structures as well as erosion to the shore.

A preliminary review of this application indicates that species listed under the Endangered Species Act (ESA) or their critical habitat pursuant to Section 7 of the ESA as amended, may be present in the action area. The ACOE will forward this PN to the US Fish and Wildlife Service and/or National Marine Fisheries Service 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 Philadelphia District will evaluate the potential effects of the proposed actions on ESA listed species or their critical habitat and will consult with NOAA Fisheries as

appropriate. Endangered Species Act 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 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 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.

Due to COVID-19, comments on the proposed work should be submitted via email, within thirty (30) days, to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District at PhiladelphiaDistrictRegulatory@usace.army.mil. If it is necessary to provide a paper copy, comments should be submitted, within thirty (30) days, via traditional hard copy mail to the U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390, Attn: CENAP-OPR.

The USACE Cultural Resource Specialist has reviewed the proposed permit action for potential impacts to Historic Properties eligible for or listed on the National Register of Historic Places. A historic properties investigation has been conducted within the permit area. Historic properties eligible for or listed on the NRHP are within the permit area, but will not be affected by the proposed action. A determination of “**No Effect**” will be coordinated with the SHPO and Tribes.

The Magnuson-Stevens Fishery Conservation and Management Act requires all federal agencies to consult with the NOAA Fisheries on all actions or proposed actions, that are 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 Philadelphia District will evaluate the potential effects of the proposed actions on EFH and will consult with NOAA Fisheries as appropriate. Consultation concerning EFH with NOAA Fisheries will be concluded prior to the final decision on this permit application.

Compensatory Mitigation: Compensatory mitigation is not required because any losses of aquatic resources from discharges of dredged or fill materials would be naturally re-established at the new re-graded areas below the high tide line, therefore, such losses will be temporary and minimal.

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 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 Coastal Zone Management (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.

It should be noted that the project is located within the Ocean Gate Shoreline Protection Federal Project which is a Federal beach nourishment project. The project was advertised in a public notice dated September 3, 2021 under Title 33 of the United States Code, Chapter 9, Section 408 (33 USC §408). For any questions pertaining to the Federal project, please contact Dr. Juan Corona of the Philadelphia District, U.S. Army Corps of Engineers at JuanCarlos.Corona@usace.army.mil.

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, in writing, to the District Engineer, 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 in writing, with particularity, the reasons for holding a public hearing. Such requests must be sent electronically to David.J.Caplan@usace.army.mil.

Additional information concerning this permit application may be obtained by calling Mr. David J. Caplan at 215-656-6731 or 215-605-7029, or by via email at David.J.Caplan@usace.army.mil, or writing this office at the above address.

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 REPORTED 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 NJDOT 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. IF 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 NJDOT. THE NJDOT WILL COVER THE COST OF THE PERMANENT 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 "SITE 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 OCCURRENCE AND LOCATION 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 WORK. PRIOR TO ANY ROADWAY REPAIRS, THE CONTRACTOR SHALL REQUEST AN 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 EXISTING 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 ONLY IF 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 MOISTURE CONTENT OF THE FILL SHOULD BE CONTINuously CONVEYED 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 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 DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D 1557). 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 ITEM.
14. ALL FILL MATERIAL TO BE SUITABLE TO NJDEP 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 TOWNSHIP PRIOR TO ANY CONSTRUCTION OR MATERIALS BROUGHT TO THE SITE.

Item No.	Description	Contract Quantity	Unit
1	Mobilization/Demobilization	1	LS
2	Beach Replenishment/Dune Creation	15,623	CY
3	Vegetation Restoration	6,400	SY
4	Concrete Articulated Matting	12,330	SF
5	Soil Erosion Controls	7	AC
6	Extend 18" R.C.P. Outfall Pipe	30	LF
7	Dune Fencing	4,770	LF
8	Groin Demolition	1	LS
9	Beach Access Mats	396	LF

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
TIN VOLUMES (Overall)	full	1.000	1.000	326285.69	303.86	15623.44	15319.59<Fill>
Totals							
				2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total				326285.69	303.86	15623.44	15319.59<Fill>

NOTES:

- | Volume Summary | | | | | | | |
|----------------|---------|------------|-------------|-------------------|---------------|----------------|---------------|
| Name | Type | Cut Factor | Fill Factor | 2d Area (Sq. Ft.) | Cut (Cu. Yd.) | Fill (Cu. Yd.) | Net (Cu. Yd.) |
| Area-1 | bounded | 1.000 | 1.000 | 12035.46 | 0.08 | 1177.53 | 1177.46<Fill> |
| Area-2 | bounded | 1.000 | 1.000 | 10378.91 | 0.30 | 761.19 | 760.89<Fill> |
| Area-3 | bounded | 1.000 | 1.000 | 15091.99 | 1.47 | 1041.13 | 1039.65<Fill> |
| Area-4 | bounded | 1.000 | 1.000 | 20944.99 | 0.01 | 1335.88 | 1335.87<Fill> |
| Area-5 | bounded | 1.000 | 1.000 | 2652.86 | 0.00 | 78.95 | 78.95<Fill> |
| Area-6 | bounded | 1.000 | 1.000 | 39976.82 | 0.34 | 3403.19 | 3402.85<Fill> |
| Area-7 | bounded | 1.000 | 1.000 | 28696.55 | 0.03 | 2197.77 | 2197.74<Fill> |

NOTES:

- Alan B. Dittenhofer*
ALAN B. DITTENHOFER
NJ PROFESSIONAL ENGINEER LIC. No. 37672

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No	REVISION	DATE	BY	CHKD
5	REV. PER ARMY CORP. REVIEW LETTER 9/16/21	9-20-21	PS	1
4	REV. PER NABED DCE REVIEW DUAL 5/24/21	6-28-21	PS	1
3	REV. PER ARMY CORP. REVIEW LETTER 3/26/21	6-16-21	PS	1
2	REV. PER ARMY CORP. REVIEW LETTER 1/16/20	2-23-21	PS	MS

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

<u>DRAWN BY :</u> JK / PS	<u>DESIGN BY :</u> PH	<u>CHECKED BY :</u> PH	<u>SCALE :</u> AS SHOWN
<u>DATE :</u> 8 - 21 - 20		<u>SHEET No. :</u> 2 of 18	
<u>JOB No. :</u> 1522 - U - 029			

N:\DRAW\Ocean Gate\1522U029\U029-MISC

STANDARD LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED

ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED
UTILITIES	OVERHEAD WIRE			SURVEY	CROWS FOOT			SITE & ROADWORK	EDGE OF PAVEMENT		
	SANITARY FORCE MAIN PIPE				AERIAL TARGET				CURB		
	STORM SEWER PIPE				CONCRETE MONUMENT				PAVEMENT / CONC. / SIDEWALK		
	GAS SERVICE				PK / MAG NAIL						
	SANITARY SEWER PIPE				DRILL HOLE SPIKE						
	ELECTRIC SERVICE				DRILL HOLE W/ WINGS						
	FIBER OPTIC SERVICE				STAKE						
	TELEPHONE SERVICE				HUB						
	COMMUNICATIONS SERVICE				PIN W/ CAP						
	IRRIGATION PIPE				IRON PIPE						
	WATER SERVICE				IRON PIN						
	WATER SHUT-OFF				CROSS CUT						
	WATER METER				DISK						
	WATER VALVE				STONE						
	WATER HYDRANT				REBAR						
	WELL				BASELINE						
	YARD HYDRANT				CENTERLINE						
	METER PIT				EASEMENT						
	GAS SHUT-OFF				RIGHT-OF-WAY						
	GAS METER				PROPERTY BOUNDARY						
	GAS VALVE				ADJACENT PROPERTY BOUNDARY						
	GAS LINE MARKER				RAILROAD TRACKS						
	CLEANOUT				STATE BOUNDARY						
	SEWER VENT				MUNICIPAL / COUNTY BOUNDARY						
	INLET TYPE A			ENVIRONMENTAL	BORING LOCATION			MISC.	BBQ GRILL		
	INLET TYPE B				MONITORING WELL LOCATION				WATER FOUNTAIN		
	INLET TYPE E				TEST PIT LOCATION				KIOSK		
	INLET TYPE E				FRESHWATER WETLAND FLAG				AIR CONDITIONER		
	INLET GRATE CUSTOM				FRESHWATER WETLAND LINE				PARKING METER		
	AREA DRAIN				FRESHWATER WETLAND BUFFER				FIRE CONTROL VALVE		
	MANHOLES				EDGE OF WATER				BARRICADE		
					STREAM CENTERLINE						

RVE

1901

**REMINGTON
& VERNICK
ENGINEERS**

9 ALLEN STREET
TOMS RIVER, NJ 08753
(732) 286-9220, FAX (732) 505-8416
WEB SITE ADDRESS : WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

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

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

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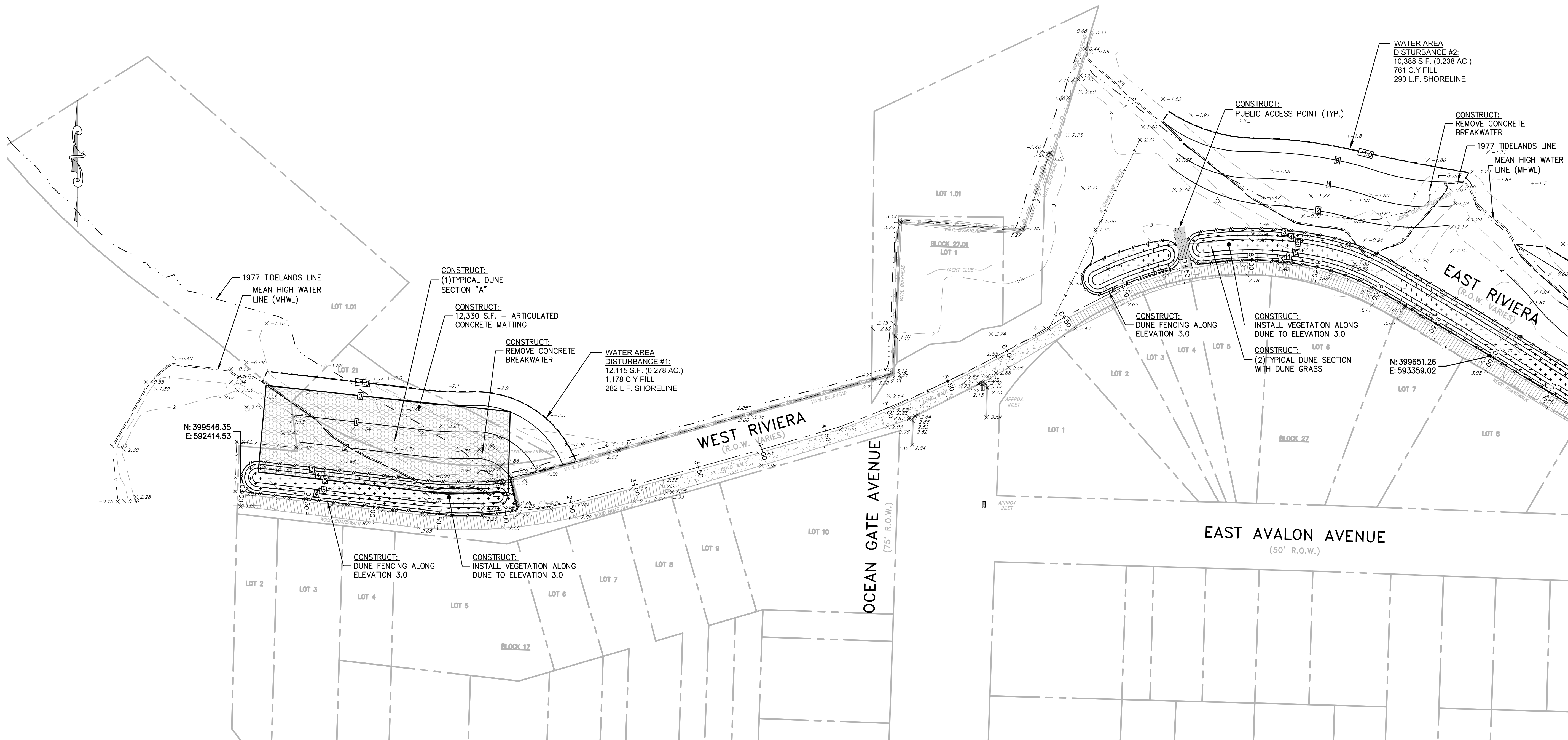
NO.	REVISION	DATE	BY	CHK
5	REV. PER ARMY CORP. REVIEW LETTER 10/14/21	11-11-21	PS	JL
4	REV. PER ARMY CORP. REVIEW LETTER 9/16/21	9-20-21	PS	JL
3	REV. PER ARMY CORP. REVIEW LETTER 3/26/21	6-16-21	PS	JL
2	REV. PER ARMY CORP. REVIEW LETTER 11/6/20	2-23-21	PS	JL
1				

PLAN SHEET (1)

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY

<u>DRAWN BY :</u>	<u>DESIGN BY :</u>	<u>CHECKED BY :</u>	<u>SCALE :</u>
JK / PS	PH	PH	AS SHOWN
<u>DATE :</u>		<u>SHEET No. :</u>	
8 - 21 - 20		4 of 18	
<u>JOB No. :</u>			
1522 - U - 029			
N:\DRAW\Ocean Gate\1522\U029\U029-PLANS			



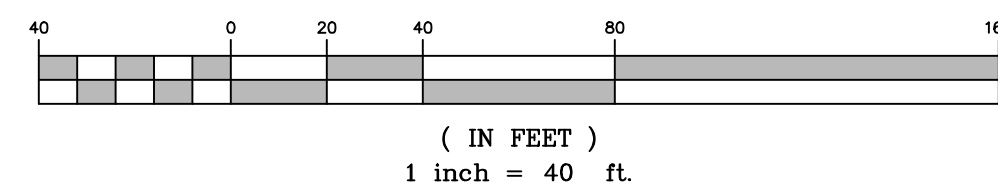
CROSS SECTION NOTE:
1. STATION 0+00 TO 2+00 IS TYPICAL SECTION "A".
2. STATION 6+75 TO 16+75 IS TYPICAL SECTION WITH DUNE GRASS.
3. STATION 16+75 TO 34+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
4. STATION 34+00 TO 36+25 IS TYPICAL SECTION WITH DUNE GRASS.
5. STATION 36+25 TO 40+00 IS TYPICAL SECTION "B".
6. STATION 40+00 TO 41+25 IS TYPICAL SECTION WITH DUNE GRASS.
7. STATION 41+25 TO 45+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
8. STATION 45+00 TO 49+00 IS TYPICAL SECTION WITH DUNE GRASS.
9. STATION 49+00 TO 53+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.

LEGEND

- WETLANDS LINE
- MEAN HIGH WATER LINE (MHWL)
- 1977 TIDELANDS CLAIM LINE
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR

HIGH TIDE LINE (HTL)	ELEV. +0.21
MEAN HIGH WATER LINE (MHWL)	ELEV. +0.10
MEAN TIDE LEVEL	ELEV. -0.08
MEAN LOW WATER LINE (MLWL)	ELEV. -0.25
MEAN LOWER LOW WATER (MLLW)	ELEV. -0.30

GRAPHIC SCALE



SURVEY NOTES:

- THE HORIZONTAL DATUM IS BASED ON NAD-1983 (GRID COORDINATES) AND THE VERTICAL DATUM IS BASED ON NAVD-1988 (ADD 1.17 FEET TO THESE ELEVATIONS TO CONVERT TO NGVD-1929 DATUM).
- PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE BOROUGH OF OCEAN GATE, OCEAN COUNTY, NEW JERSEY. PROPERTY AND RIGHT-OF-WAY LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.
- 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 DECEMBER 6, 2016.



REMINGTON
& VERNICK
ENGINEERS

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DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR
RESULTING THEREFROM.

NO.	REVISION	DATE	BY	CHK
6	REV. PER. ARMY CORP. REVIEW LETTER 12/8/21	12-21-21	PS	AL
5	REV. PER. ARMY CORP. REVIEW LETTER 10/14/21	11-11-21	PS	AL
4	REV. PER. ARMY CORP. REVIEW LETTER 9/16/21	9-20-21	PS	AL
3	REV. PER. ARMY CORP. REVIEW LETTER 3/28/21	6-16-21	PS	AL
2	REV. PER. ARMY CORP. REVIEW LETTER 11/6/20	2-23-21	PS	AL
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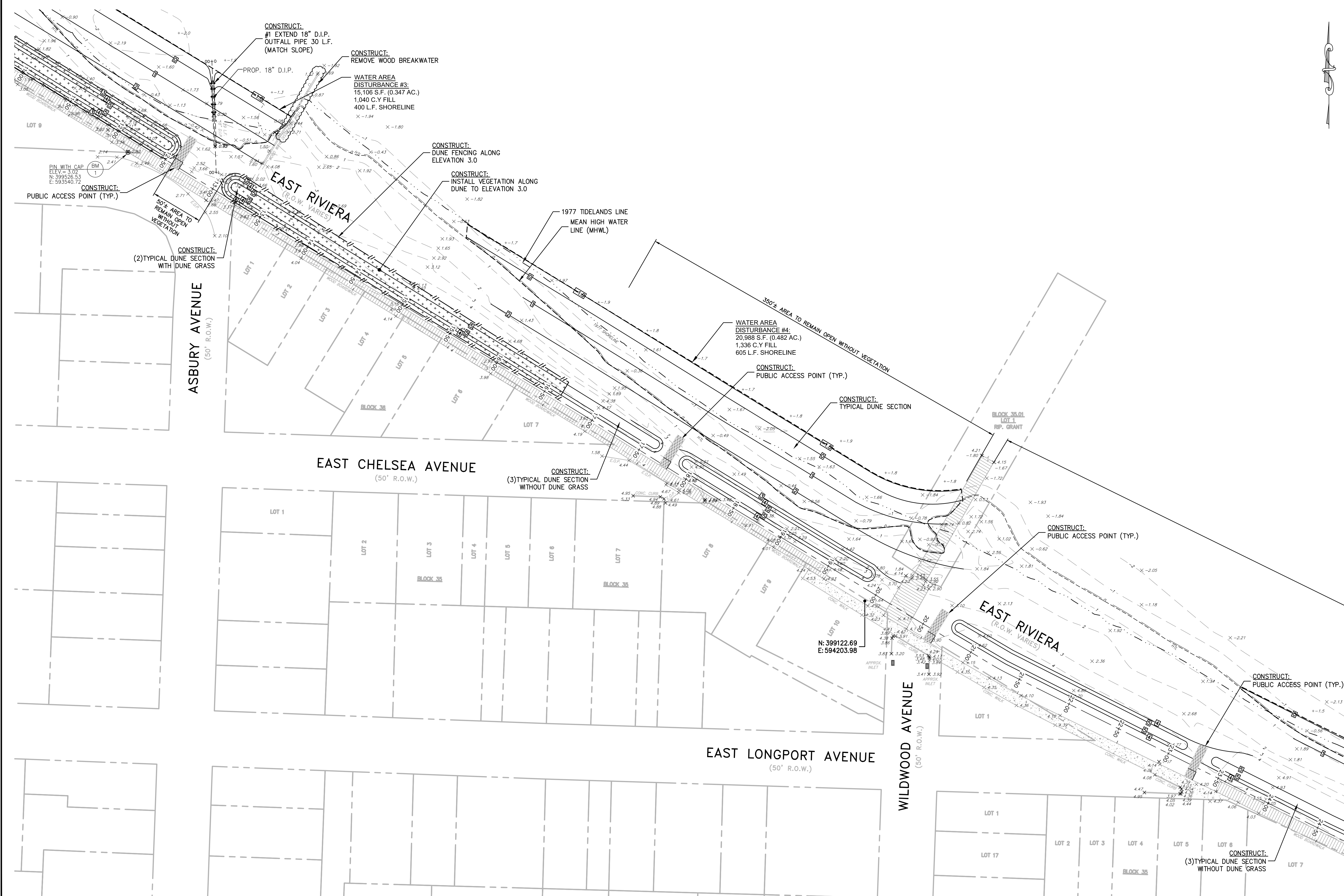
PLAN SHEET (2)

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY

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DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
JK / PS	PH	PH	AS SHOWN
DATE:	8-21-20	SHEET NO.:	5 of 18
JOB NO.:	1522-U-029		
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LEGEND

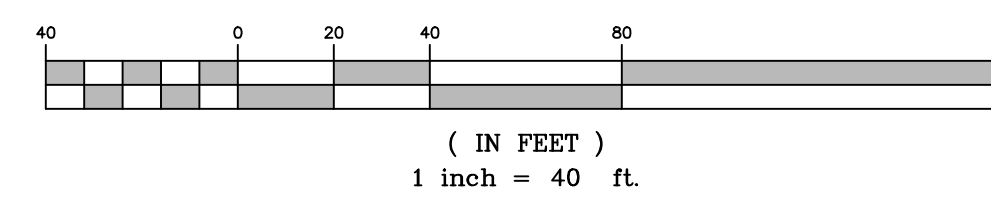
- WETLANDS LINE
- MEAN HIGH WATER LINE (MHWL)
- 1977 TIDELANDS CLAIM LINE
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR

HIGH TIDE LINE (HTL)	ELEV. +0.21
MEAN HIGH WATER LINE (MHWL)	ELEV. +0.10
MEAN TIDE LEVEL	ELEV. -0.08
MEAN LOW WATER LINE (MLWL)	ELEV. -0.25
MEAN LOWER LOW WATER (MLLW)	ELEV. -0.30

CROSS SECTION NOTE:

- STATION 0+00 TO 2+00 IS TYPICAL SECTION "A".
- STATION 6+75 TO 16+75 IS TYPICAL SECTION WITH DUNE GRASS.
- STATION 16+75 TO 34+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
- STATION 34+00 TO 36+25 IS TYPICAL SECTION WITH DUNE GRASS.
- STATION 36+25 TO 40+00 IS TYPICAL SECTION "B".
- STATION 40+00 TO 41+25 IS TYPICAL SECTION WITH DUNE GRASS.
- STATION 41+25 TO 45+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
- STATION 45+00 TO 49+00 IS TYPICAL SECTION WITH DUNE GRASS.
- STATION 49+00 TO 53+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.

GRAPHIC SCALE



SURVEY NOTES:

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9 ALLEN STREET
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Certification of Authorization: 24 GA 28003300

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NJ PROFESSIONAL ENGINEER LIC. No. 37672

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4	REV. PER ARMY CORP. REVIEW LETTER 9/16/21	9-20-21	PS	d.
3	REV. PER ARMY CORP. REVIEW LETTER 3/28/21	6-16-21	PS	d.
2	REV. PER ARMY CORP. REVIEW LETTER 11/6/20	2-23-21	PS	MC
1				

PLAN SHEET (3)

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY

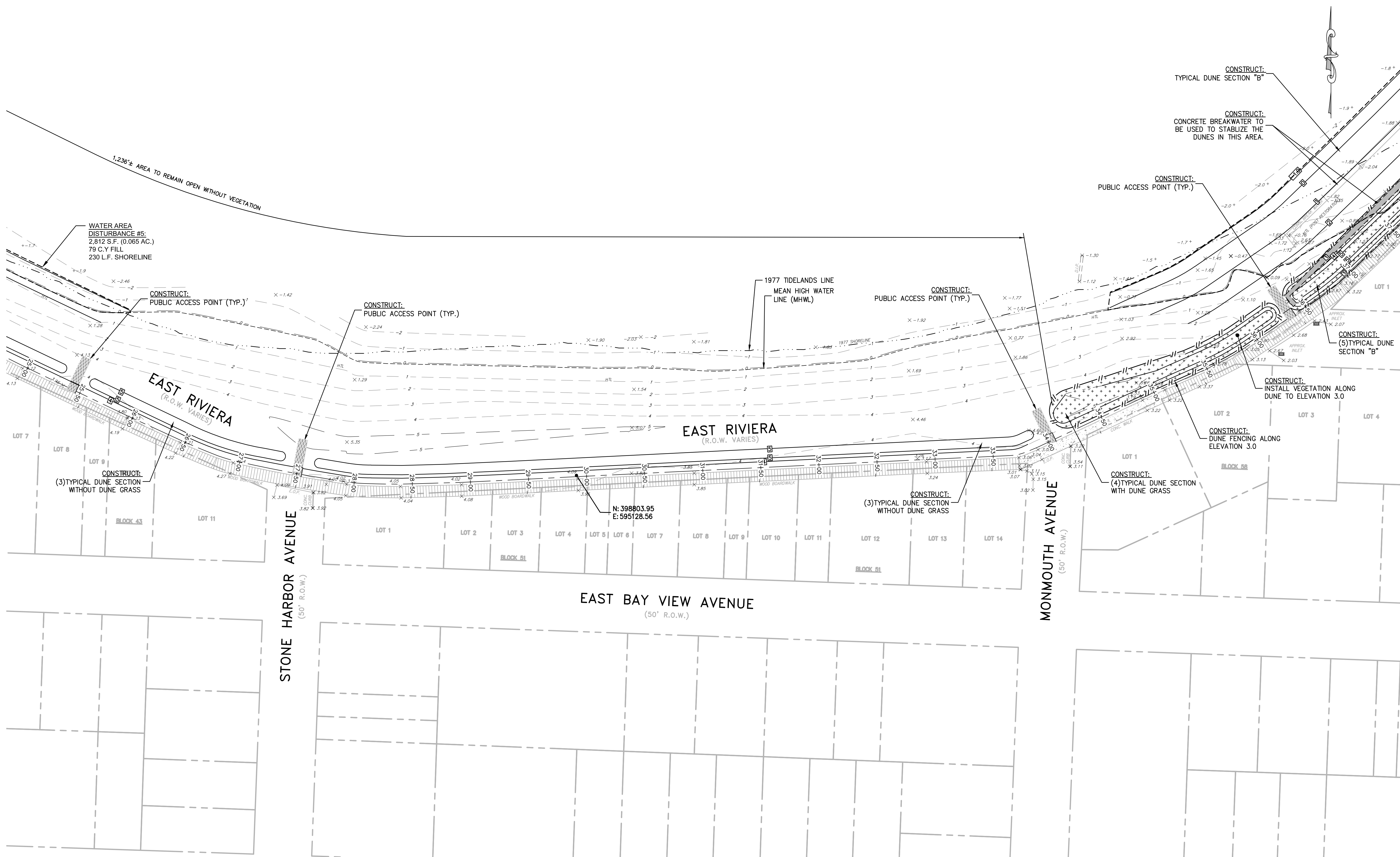
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DATE: 8-21-20 SHEET NO.: 6 of 18

JOB NO.: 1522-U-029

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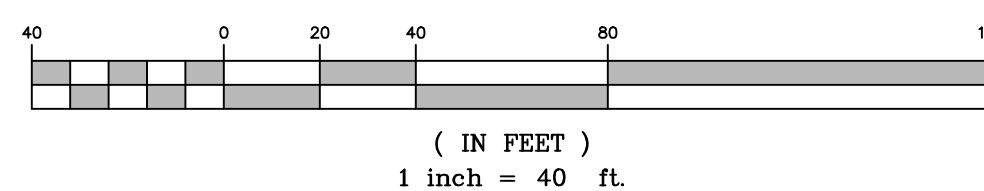
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- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR

HIGH TIDE LINE (HTL)	ELEV. +0.21
MEAN HIGH WATER LINE (MHWL)	ELEV. +0.10
MEAN TIDE LEVEL	ELEV. -0.08
MEAN LOW WATER LINE (MLWL)	ELEV. -0.25
MEAN LOWER LOW WATER (MLLW)	ELEV. -0.30

CROSS SECTION NOTE:

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- STATION 45+00 TO 49+00 IS TYPICAL SECTION WITH DUNE GRASS.
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GRAPHIC SCALE



SURVEY NOTES:

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

NJ PROFESSIONAL ENGINEER LIC. No. 3767

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DATE	REVISION	DATE	REVISION
1	REV PER ARMY CORP. RENEW LETTER 11/21-21	PS	Δ
2	REV PER ARMY CORP. RENEW LETTER 12/9/21	PS	Δ
3	REV PER ARMY CORP. RENEW LETTER 10/14/21	PS	Δ
4	REV PER ARMY CORP. RENEW LETTER 9/20-21	PS	Δ
5	REV PER ARMY CORP. RENEW LETTER 3/26/21	PS	Δ
6	REV PER ARMY CORP. RENEW LETTER 11/6/20	PS	M6

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

Borough of Ocean Gate
Ocean County
New Jersey

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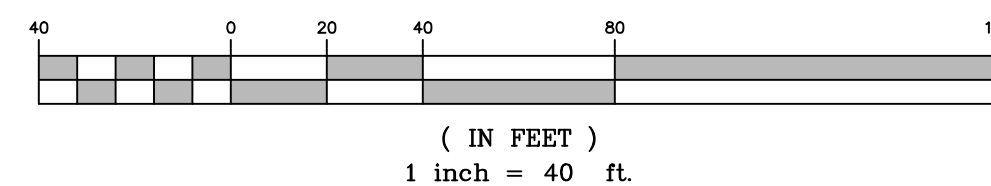
- 
- · — · — · — WETLANDS LINE
 - - - - - MEAN HIGH WATER LINE (MHWL)
 - · - · - · - 1977 TIDELANDS CLAIM LINE
 -  PROPOSED MINOR CONTOUR
 -  PROPOSED MAJOR CONTOUR

- | | |
|-----------------------------|-------------|
| HIGH TIDE LINE (HTL) | ELEV. +0.21 |
| MEAN HIGH WATER LINE (MHWL) | ELEV. +0.10 |
| MEAN TIDE LEVEL | ELEV. -0.08 |
| MEAN LOW WATER LINE (MLWL) | ELEV. -0.25 |
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CROSS SECTION NOTE:

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GRAPHIC SCALE



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<u>DRAWN BY</u> JK / PS	<u>DESIGN BY</u> PH	<u>CHECKED BY</u> PH	<u>SCALE</u> AS SHOWN
<u>DATE</u> 8 - 21 - 20		<u>SHEET No.</u> 7 of 18	
<u>JOB No.</u> 1522 - U - 029			

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ALAN B. DITTENHOFER

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3	REV. PER ARMY CORP. REVIEW LETTER 3/26/21	6-6-21	PS	JL
2	REV. PER ARMY CORP. REVIEW LETTER 11/6/20	2-23-21	PS	MC
1	UPDATE FLAGED/SURVEYED WETLANDS LOCATION	2-10/20/20	PS	PH

PLAN SHEET (5)

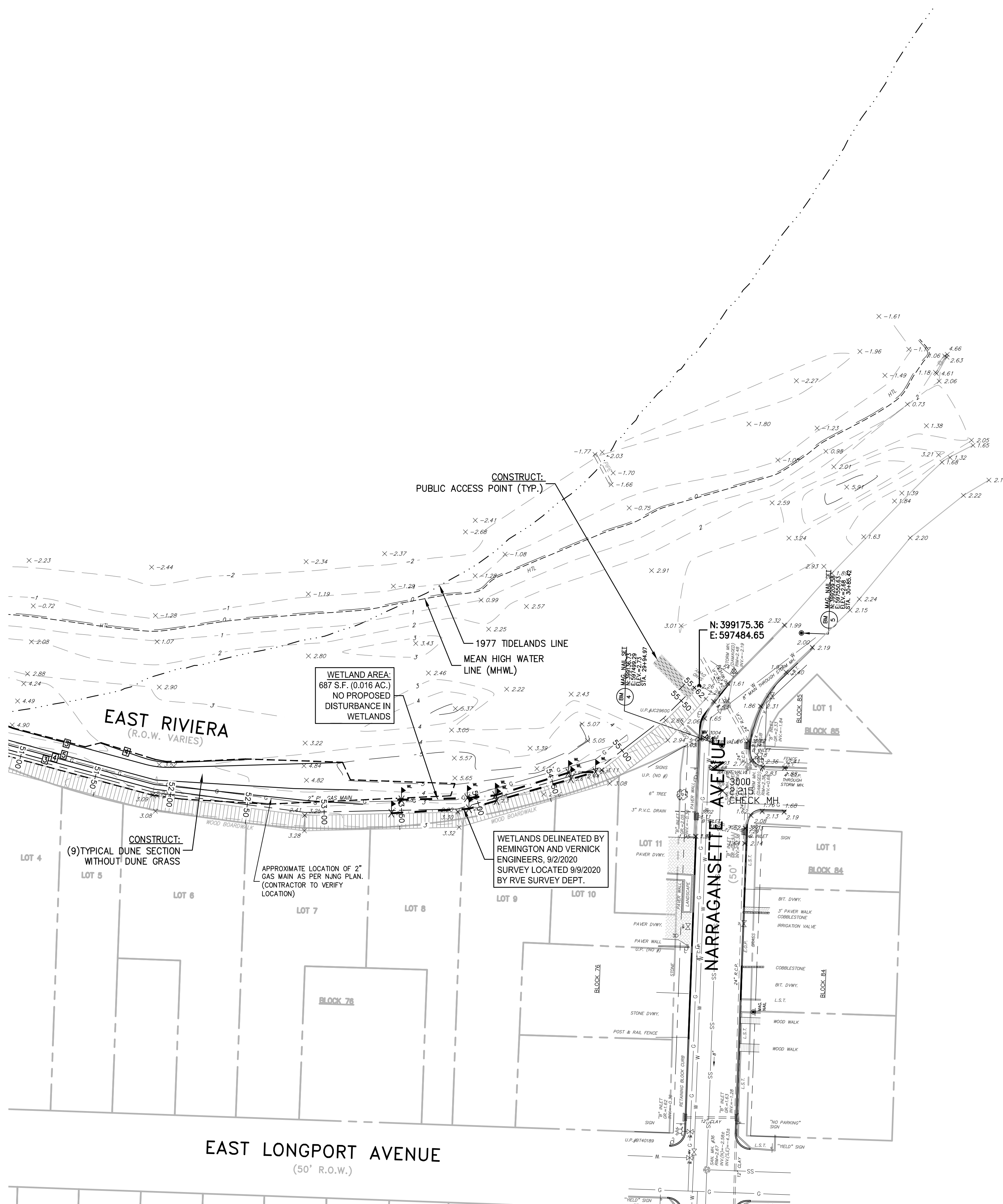
BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY

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DATE:	SHEET No.:
8 - 21 - 20	8 of 18
JOB No.:	
1522 - U - 029	
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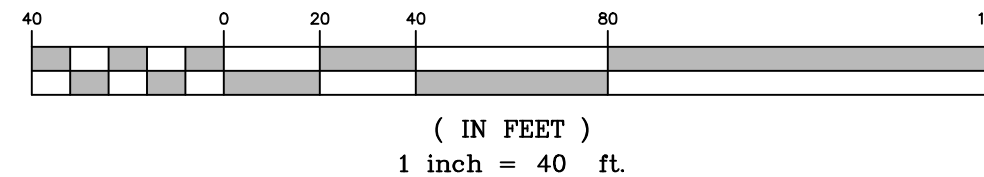
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GRAPHIC SCALE





REMINGTON
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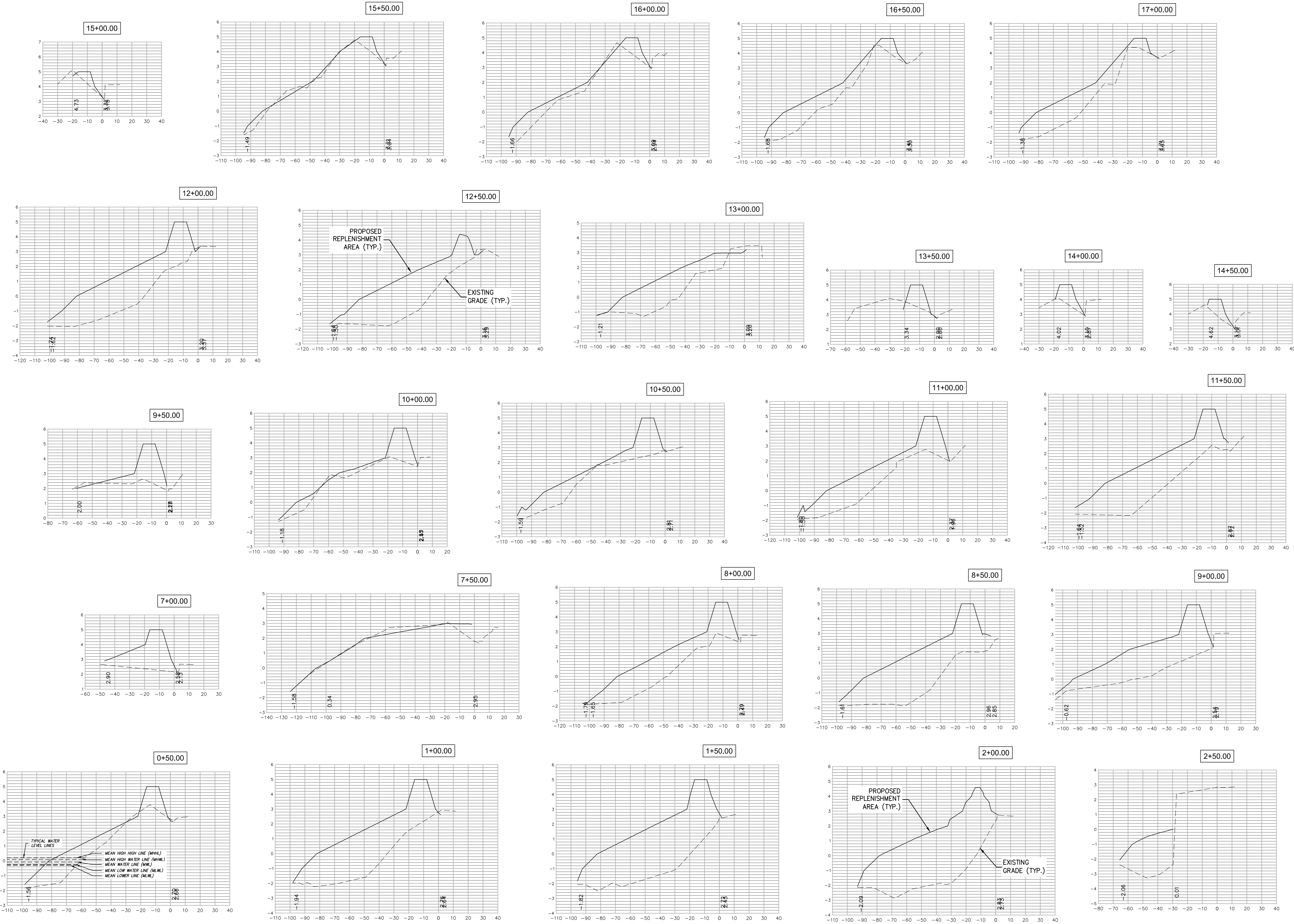
CROSS SECTIONS (1)

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY

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DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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DATE:	8 - 21 - 20	SHEET No.:	9 of 18
JOB No.:	1522 - U - 029		
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CROSS SECTIONS NOTE:
1. PLEASE SEE TYPICAL CROSS SECTIONS ON PAGE 13 FOR
WATER LINE LEVELS.
2. ELEVATION ARE ON DATUM NAVD-1988.

CROSS SECTIONS

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'



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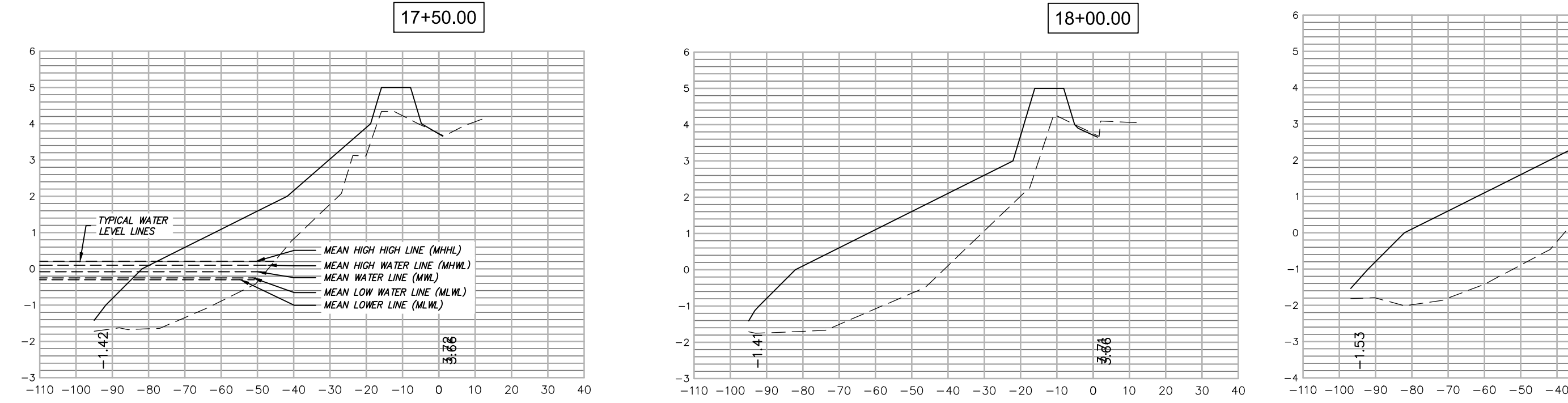
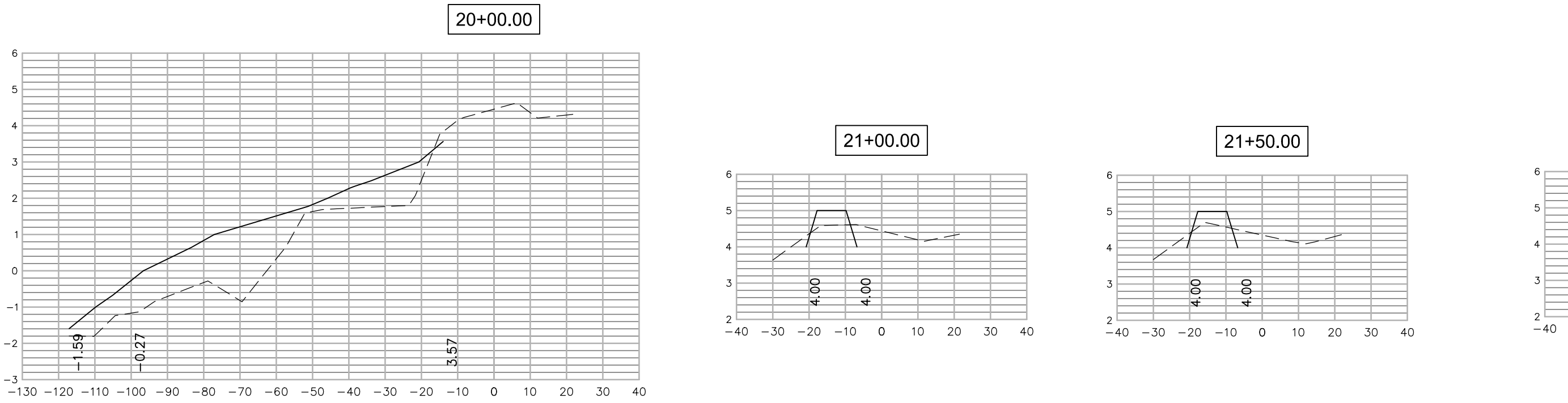
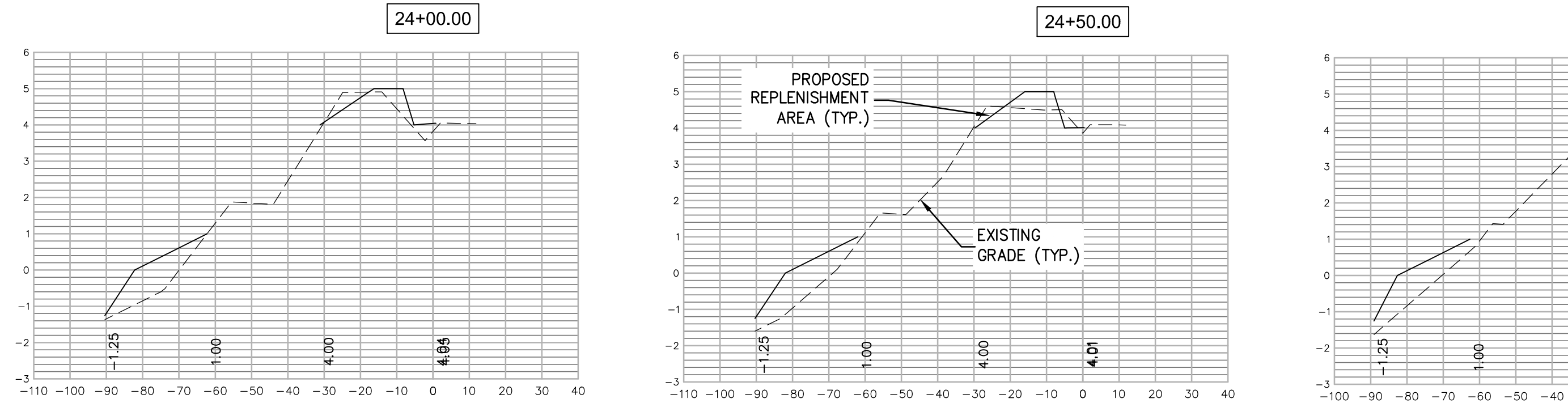
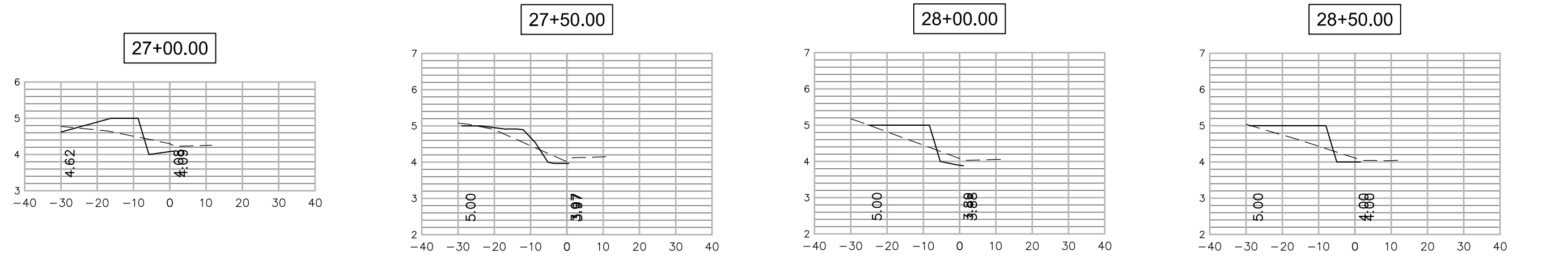
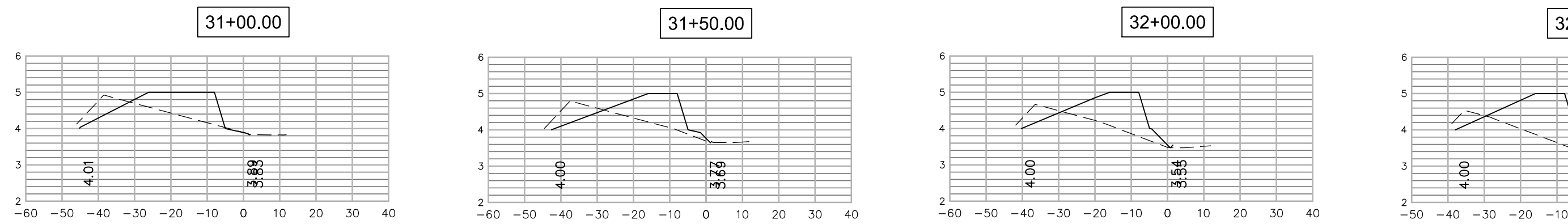
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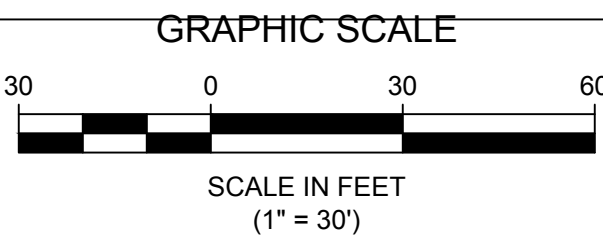
CROSS SECTIONS (2)	BOROUGH OF OCEAN GATE H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY
1522-U-029	1/4/2022 11:49:54 AM

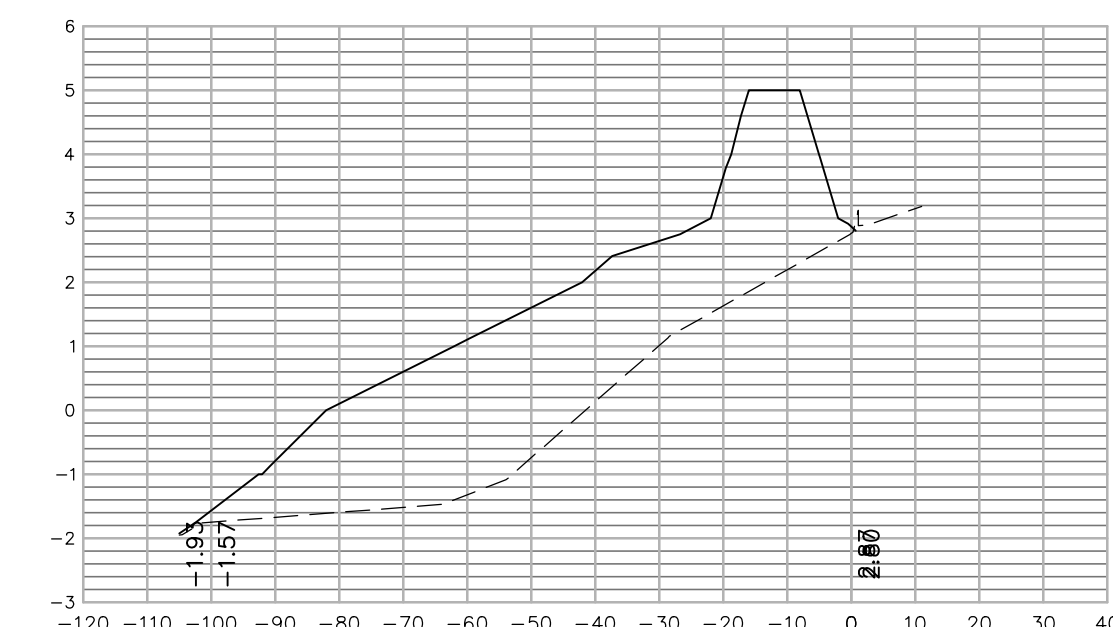
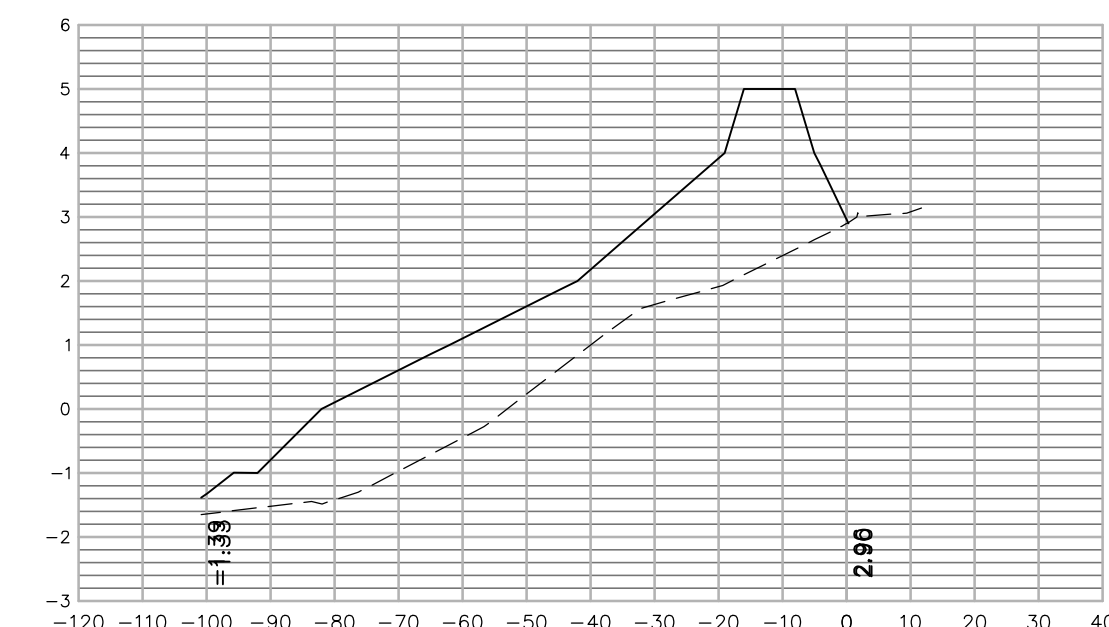
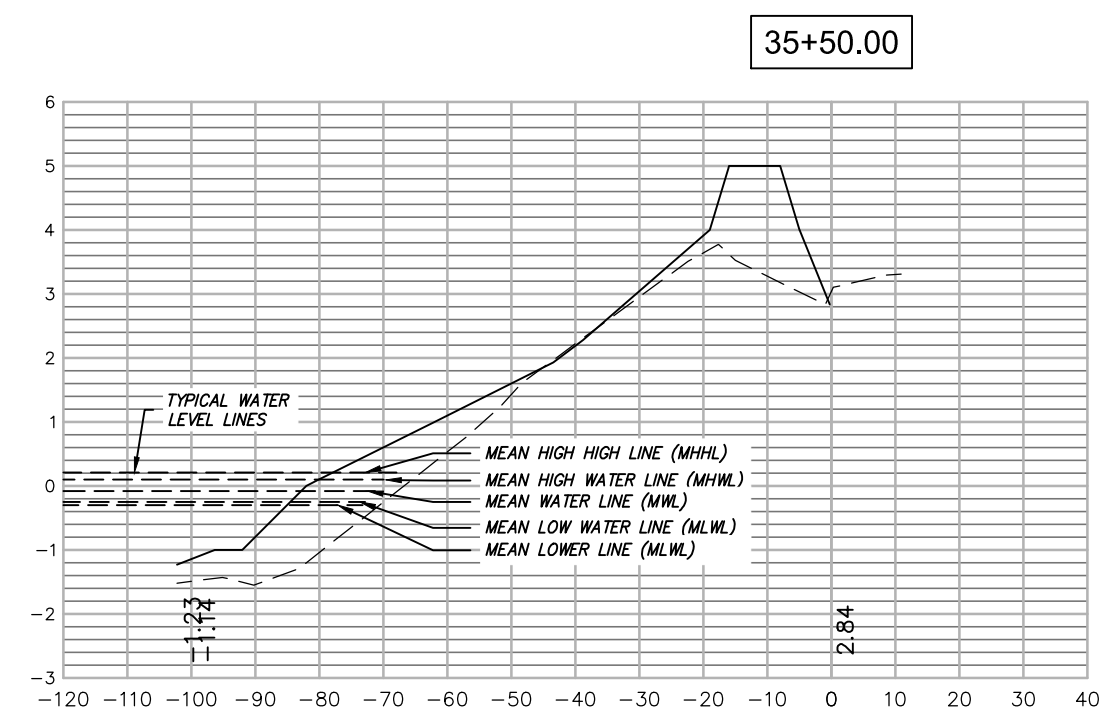
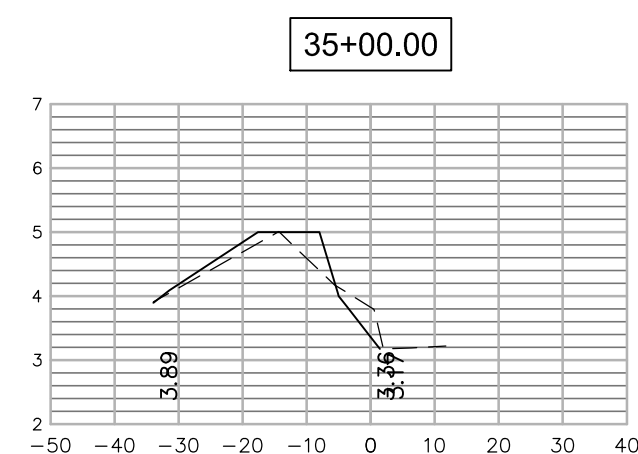
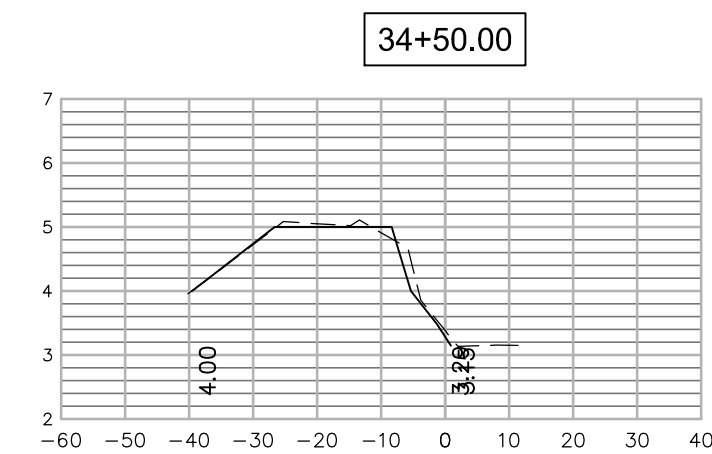
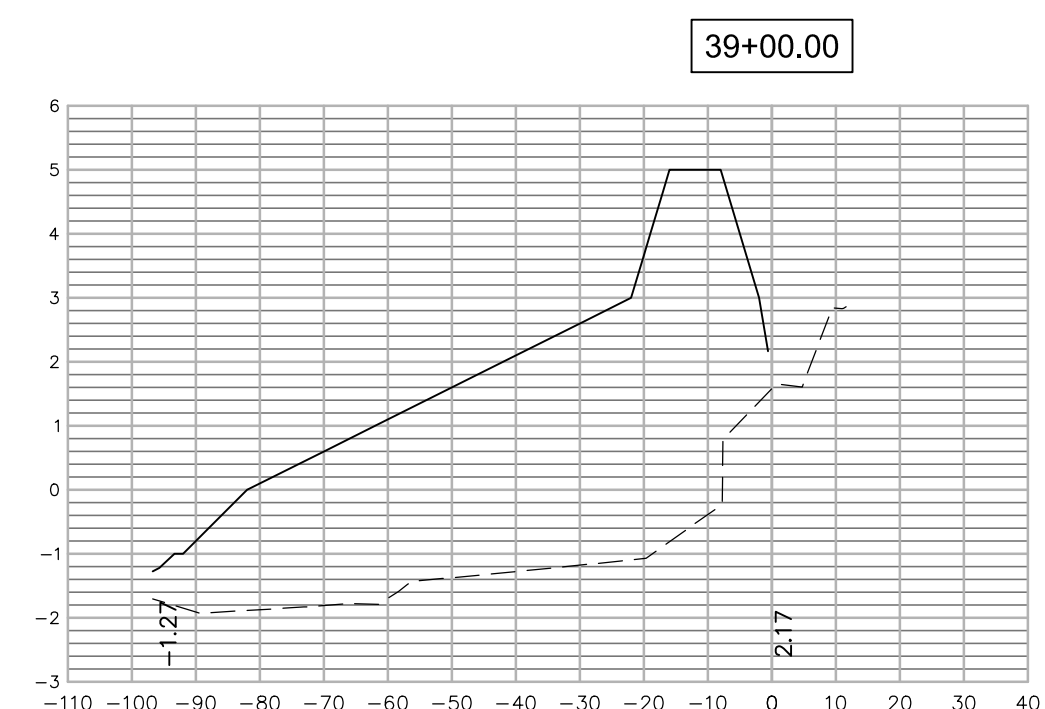
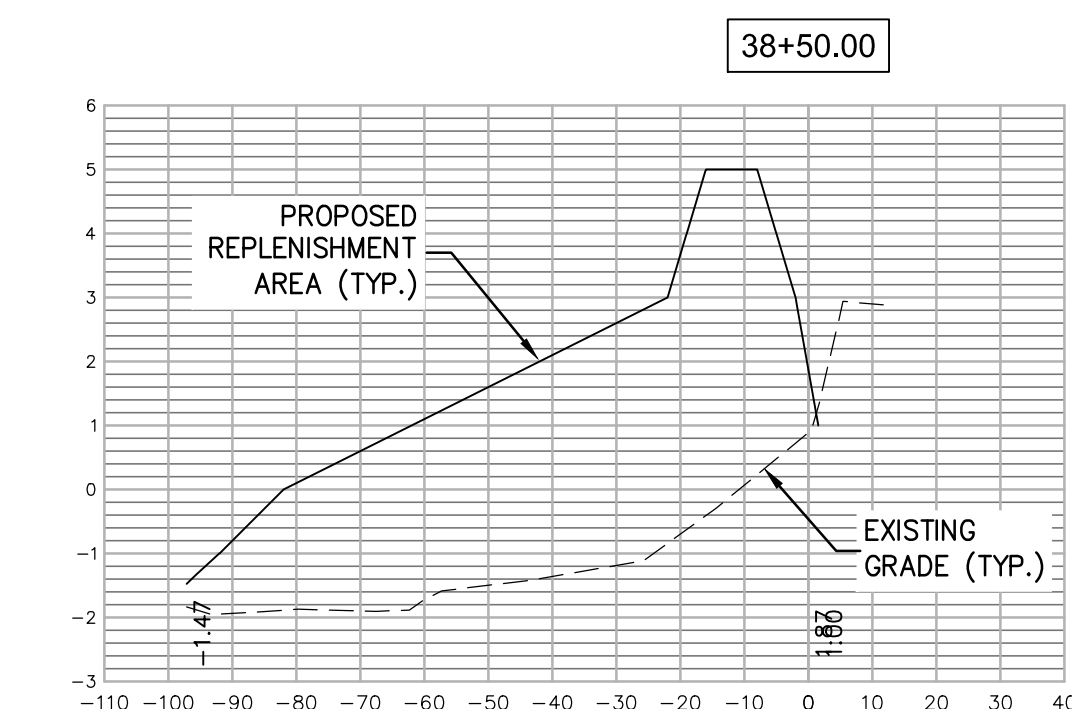
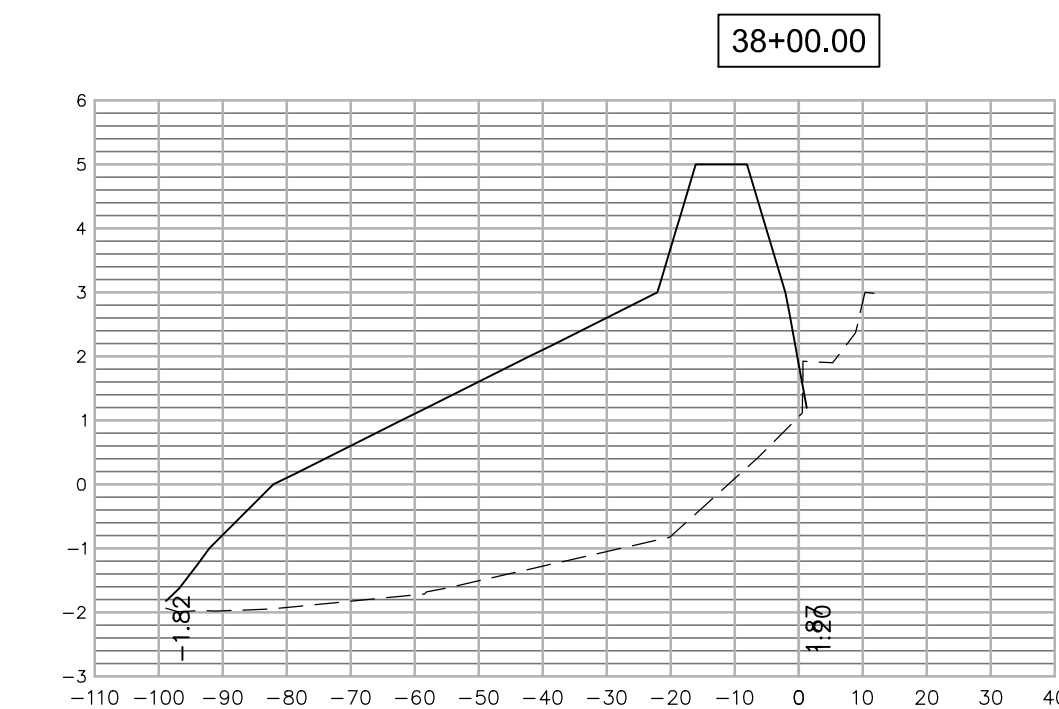
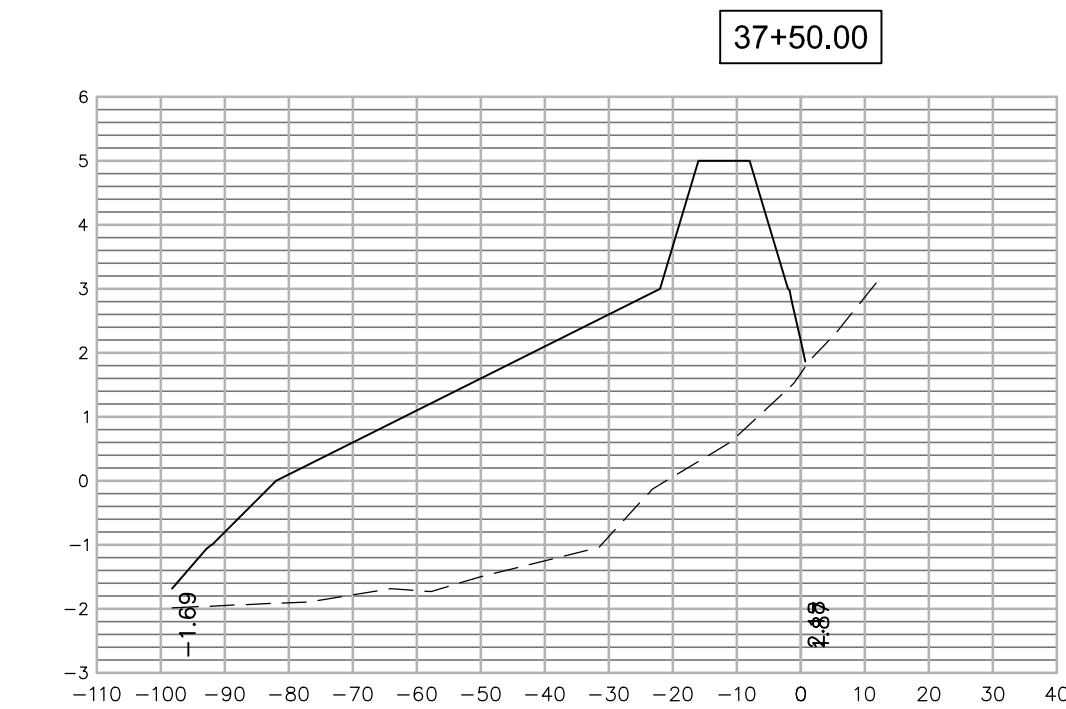
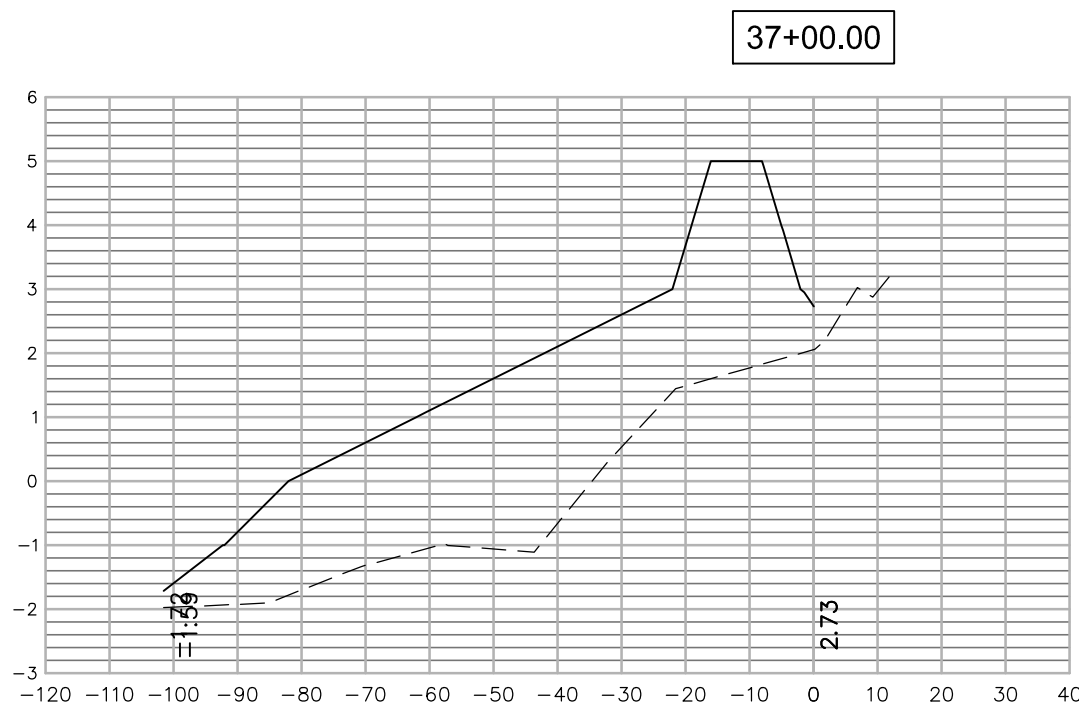
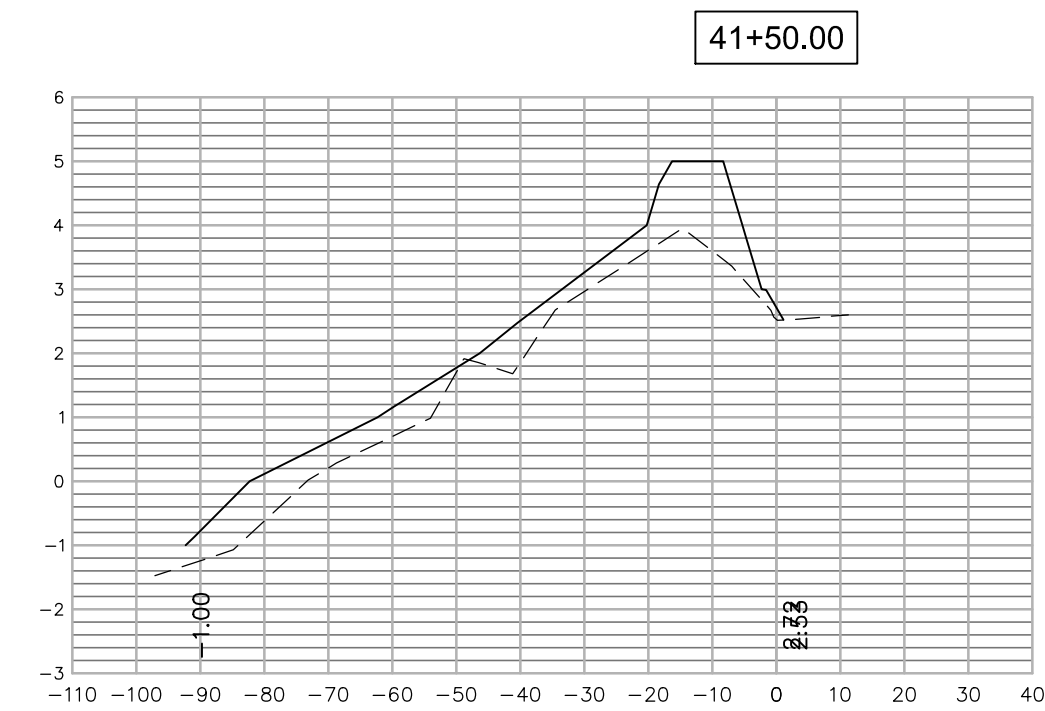
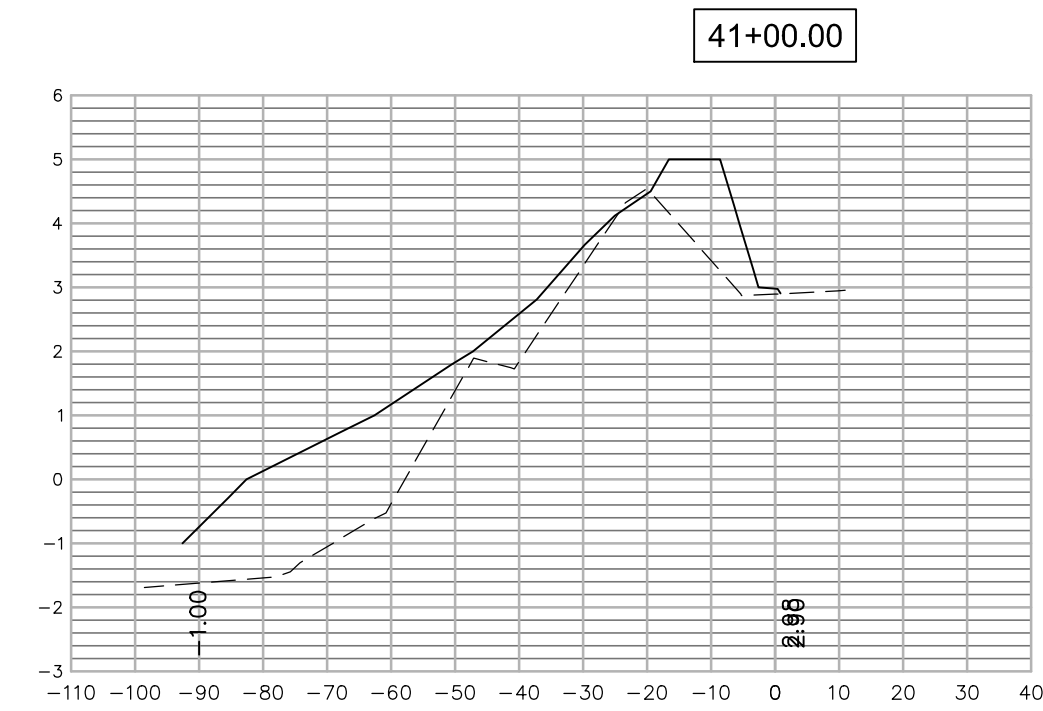
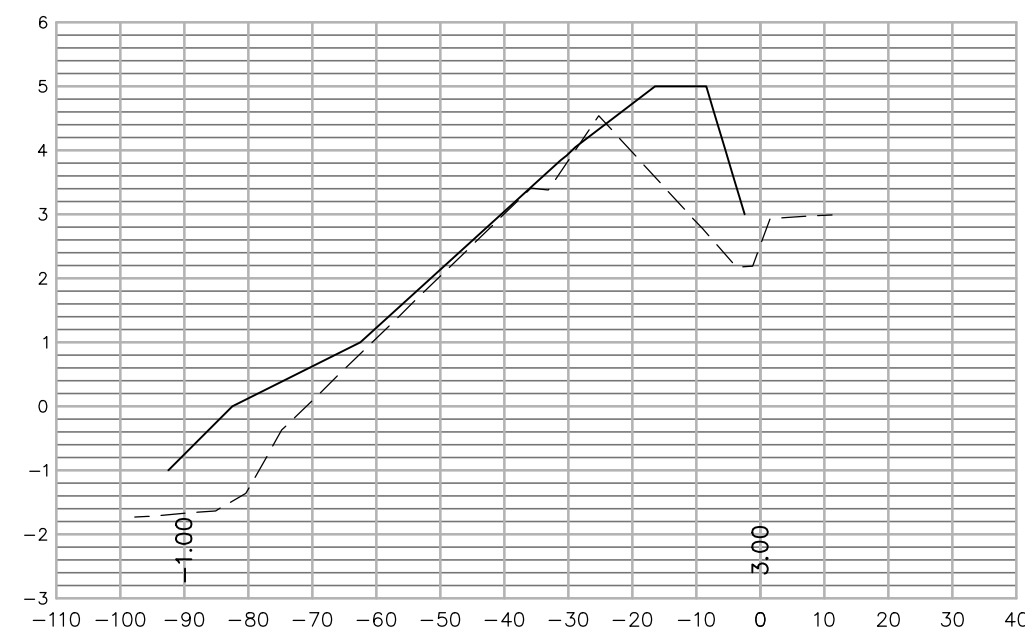
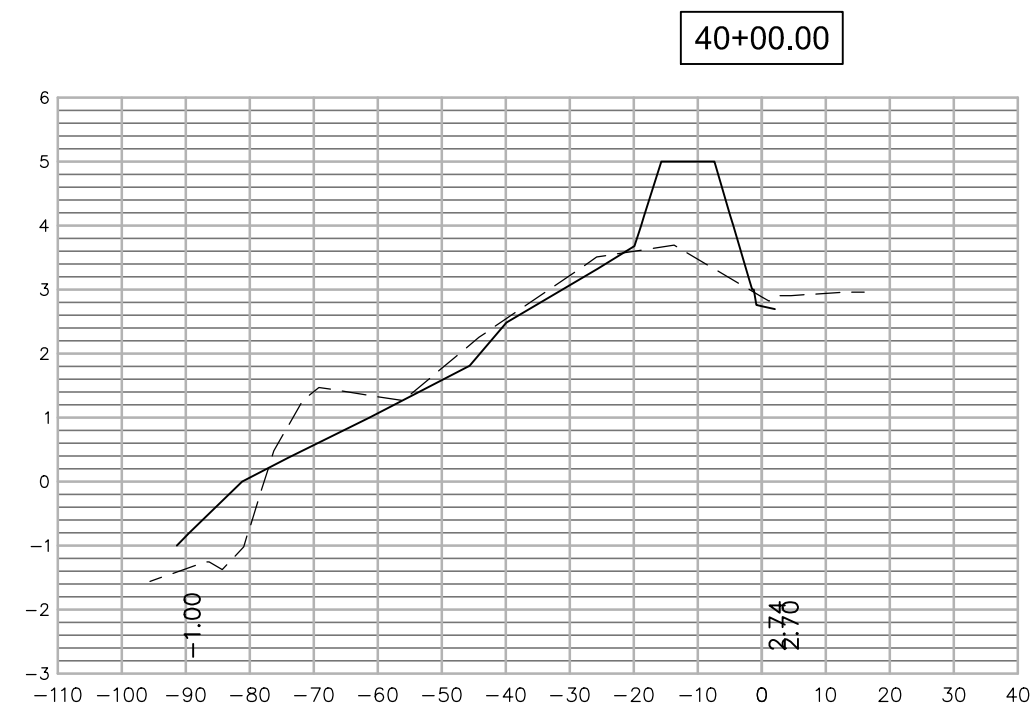
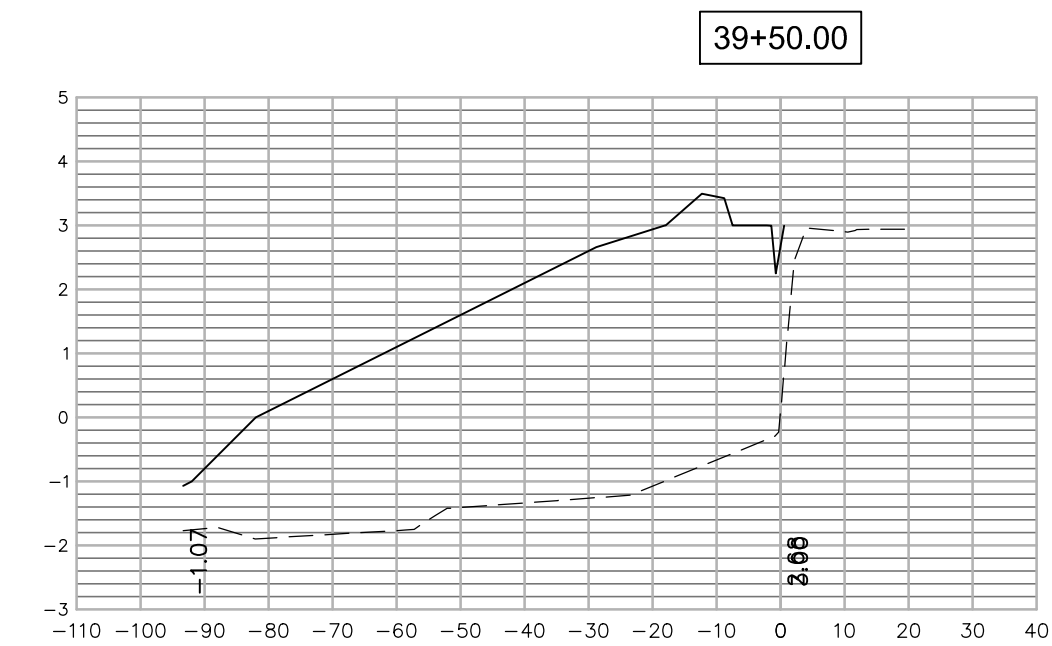
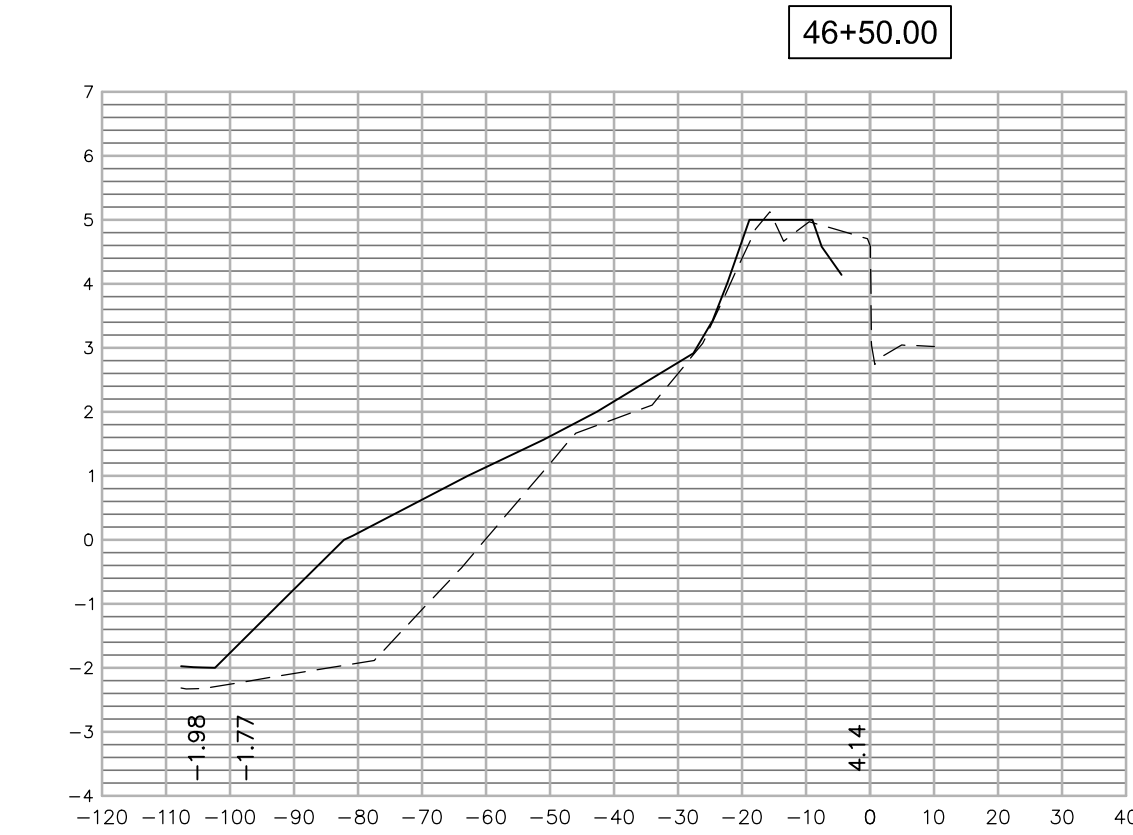
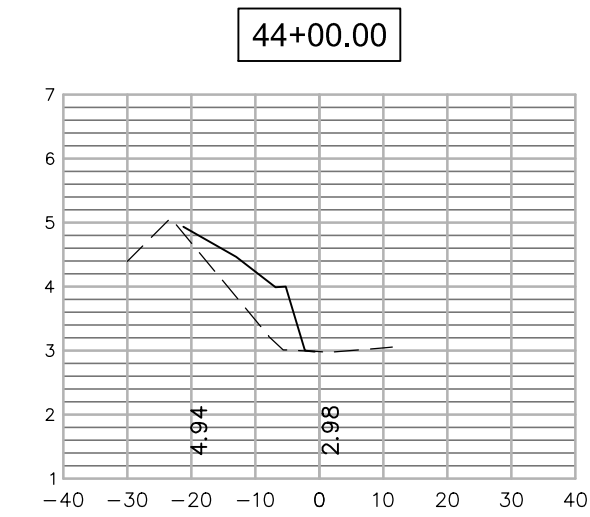
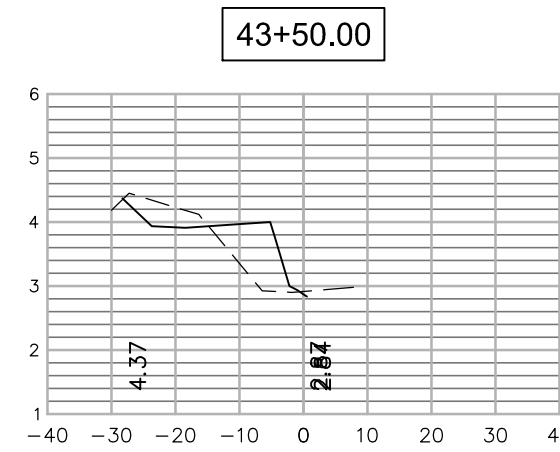
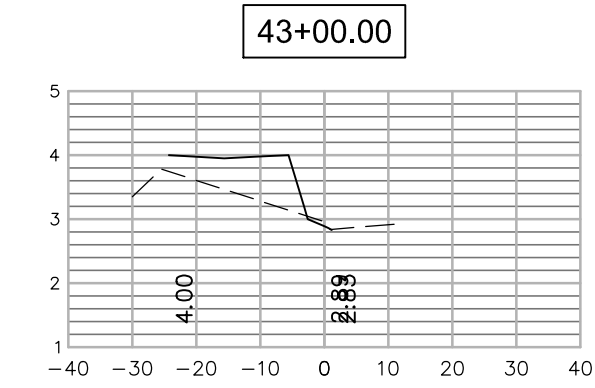
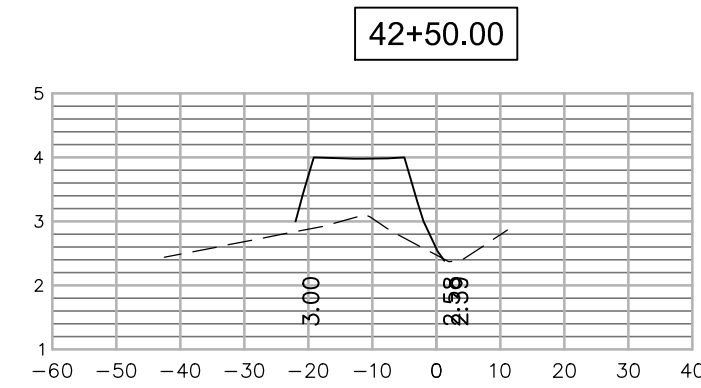
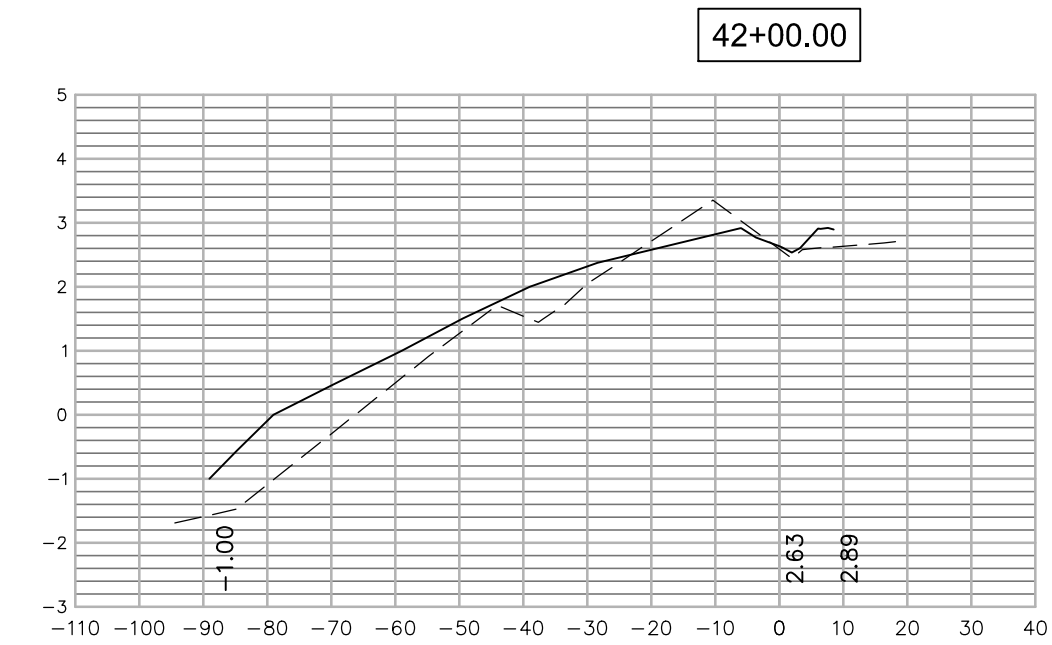
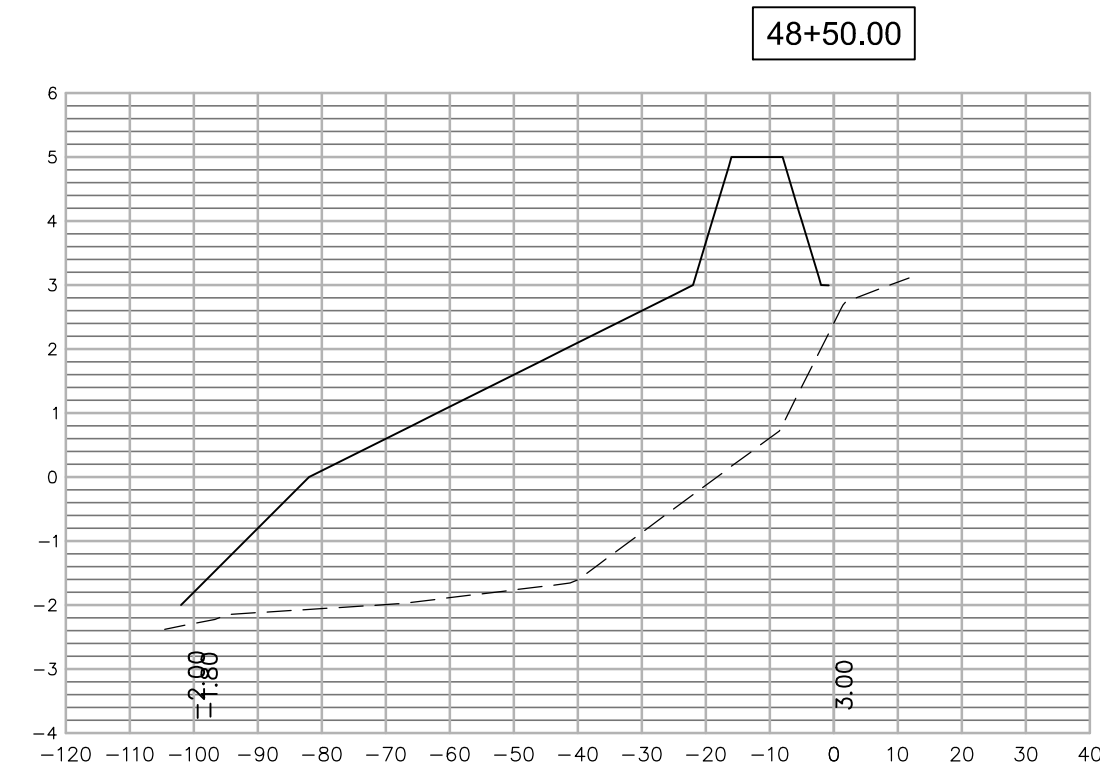
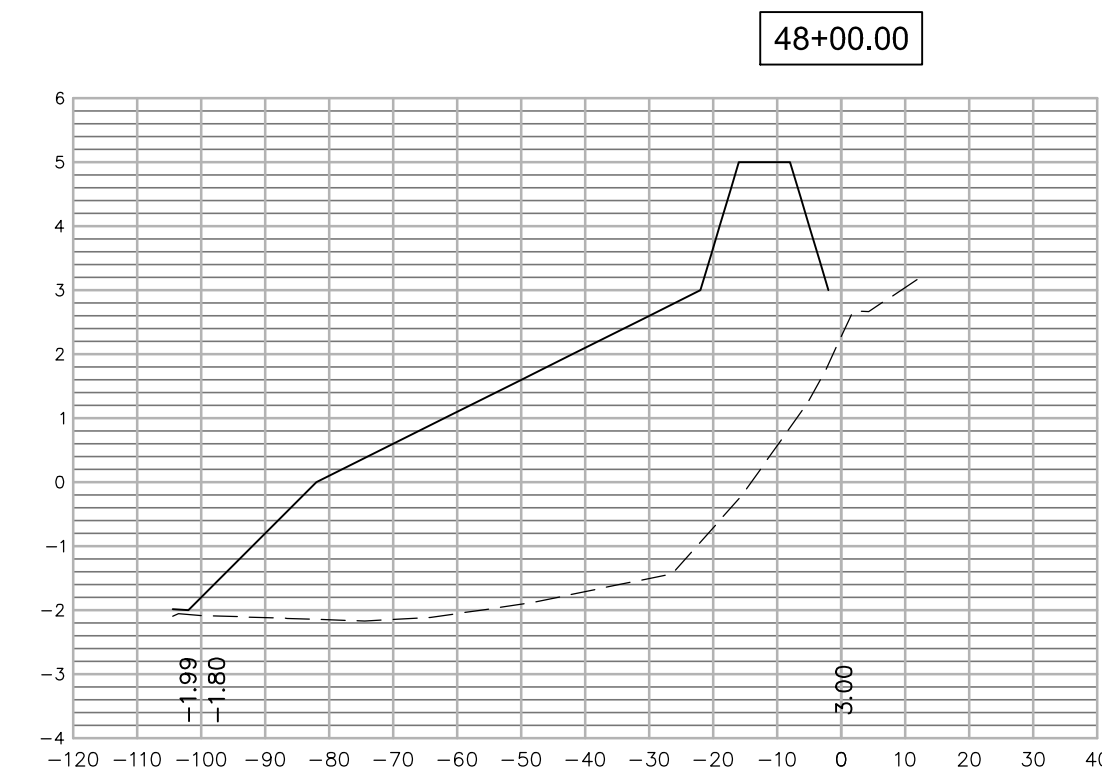
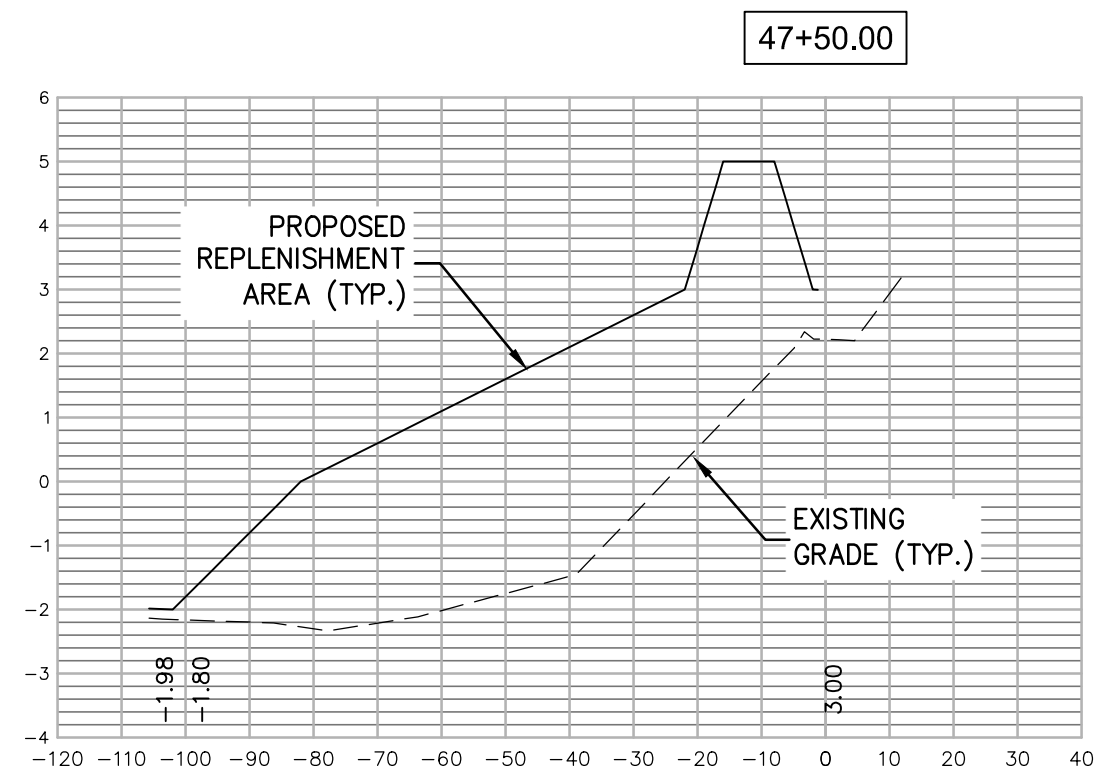
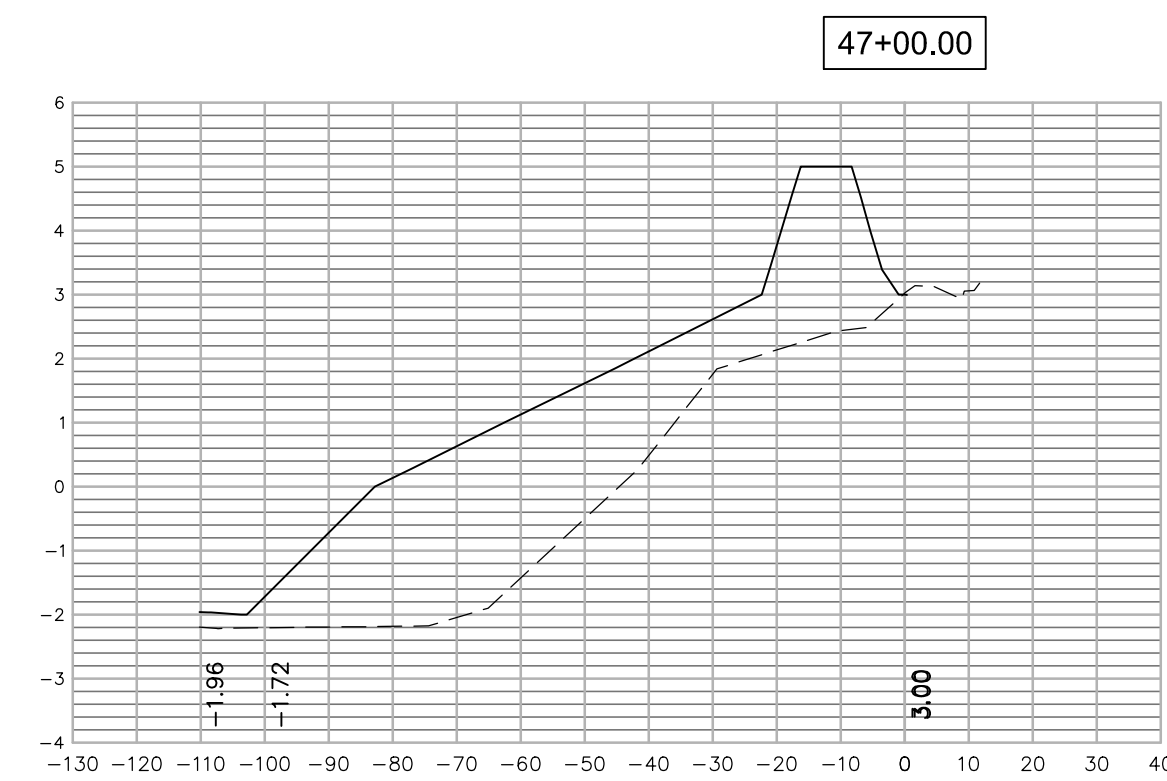
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DATE: 8 - 21 - 20		SHEET No.: 10 of 18	
JOB No.: 1522 - U - 029		N:\DRAW\Ocean Gate\1522U029\U029-PLANS	



CROSS SECTIONS NOTE:
1. PLEASE SEE TYPICAL CROSS SECTIONS ON PAGE 13 FOR
WATER LINE LEVELS.
2. ELEVATION ARE ON DATUM NAVD-1988.

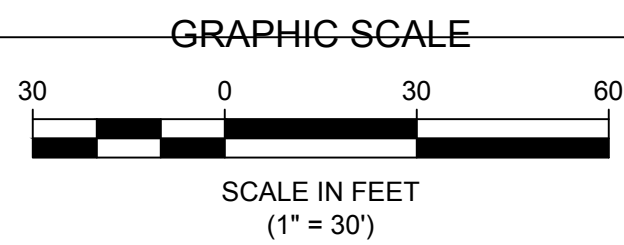
CROSS SECTIONS
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'





CROSS SECTIONS NOTE:
1. PLEASE SEE TYPICAL CROSS SECTIONS ON PAGE 13 FOR WATER LINE LEVELS.
2. ELEVATION ARE ON DATUM NAVD-1988.

CROSS SECTIONS
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'



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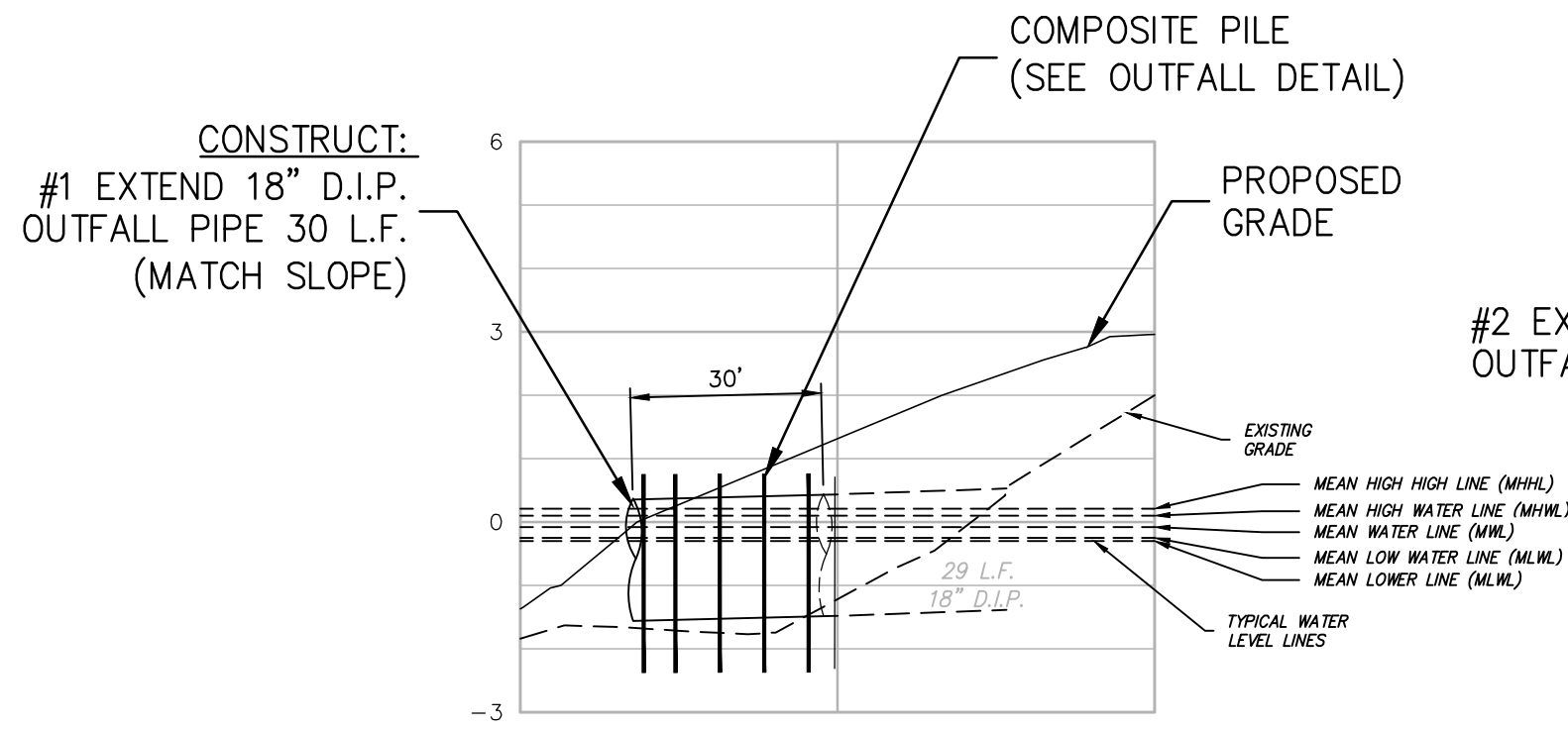
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REV.	DATE	BY	CHK
4	REV. PER ARMY CORP. REVIEW LETTER 9/16/21	PS	AL
3	REV. PER ARMY CORP. REVIEW LETTER 3/26/21	PS	AL

CROSS SECTIONS (3)	BOROUGH OF OCEAN GATE H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION	NEW JERSEY
BOROUGH OF OCEAN GATE	OCEAN COUNTY	
DATE: 8-21-20	SHEET No.: 11 of 18	
JOB No.: 1522-U-029		
N:\DRAW\Ocean Gate\1522U029\U029-PLANS		

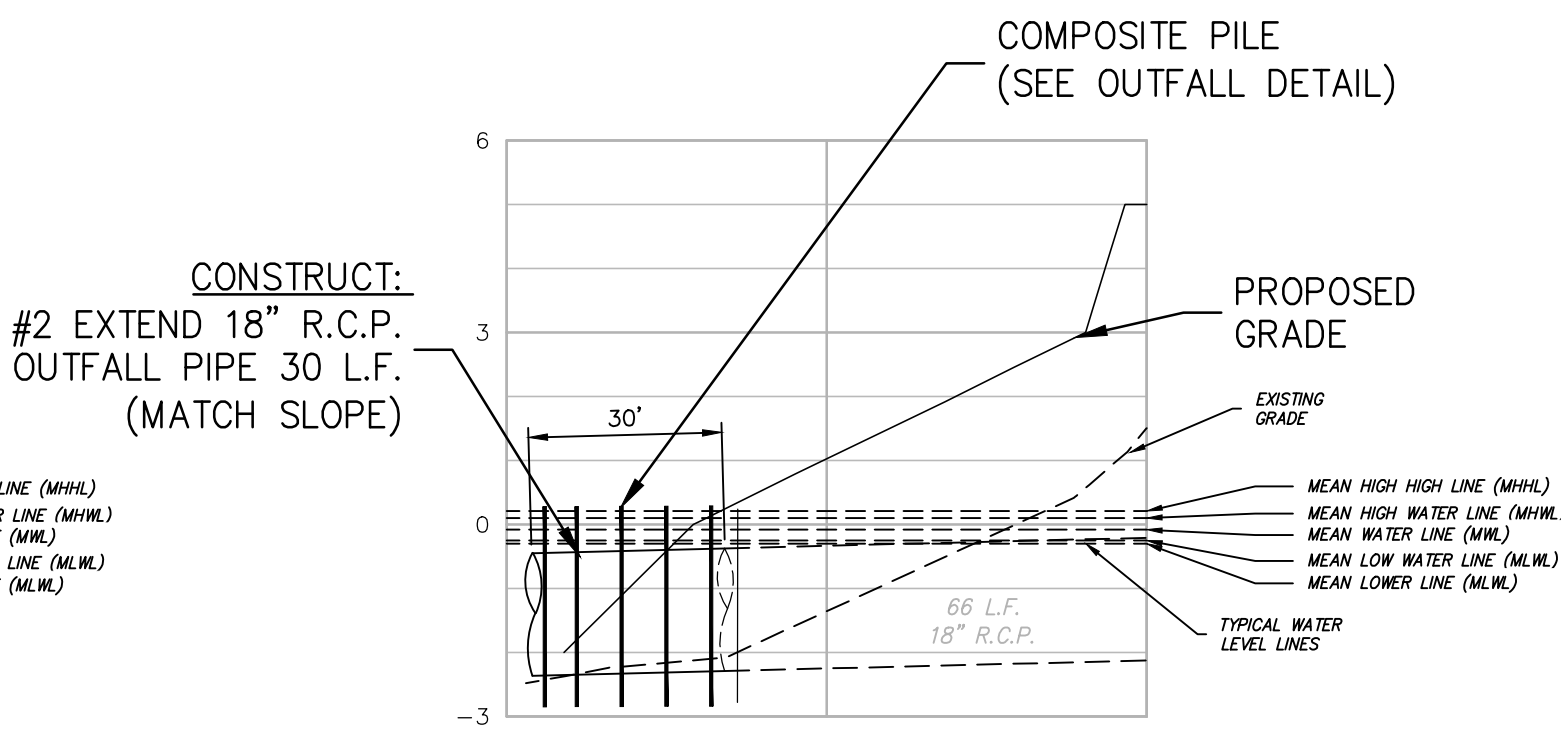


PROFILE NOTE:
1. OUTFALL SECTION SHOWN ON SHEET 5 OF 18 AT APPROXIMATE STATION 12+75.
2. ELEVATION ARE ON DATUM NAVD-1988.
3. SEE SHEET 14 OF 18 FOR PILE SPACING.
4. SEE DETAIL "OUTFALL PIPE EXTENSION".

OUTFALL EXTENTION #1
PROFILE: 0+00 - 1+00

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

HIGH TIDE LINE (HTL)	ELEV. +0.21
MEAN HIGH WATER LINE (MHWL)	ELEV. +0.10
MEAN TIDE LEVEL	ELEV. -0.08
MEAN LOW WATER LINE (MLWL)	ELEV. -0.25
MEAN LOWER LOW WATER (MLLW)	ELEV. -0.30

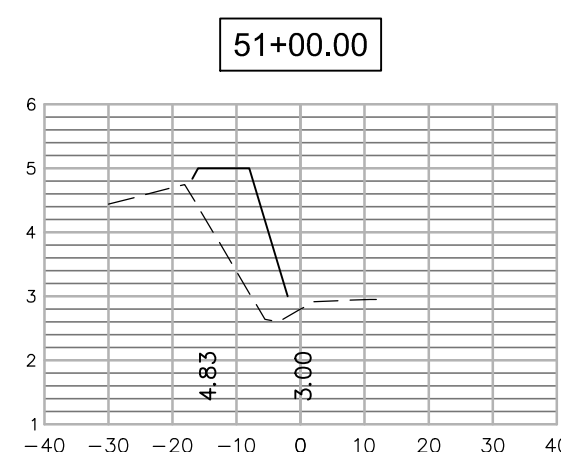
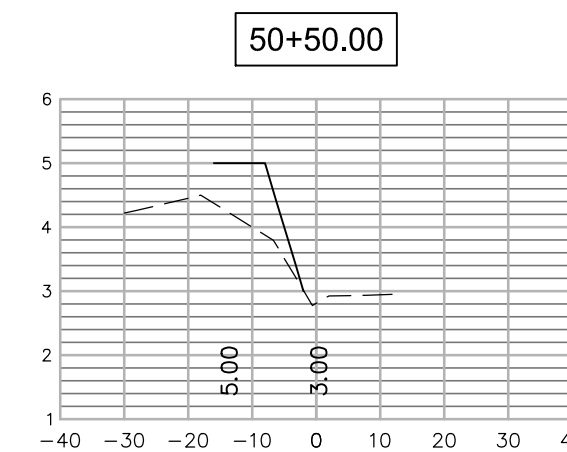
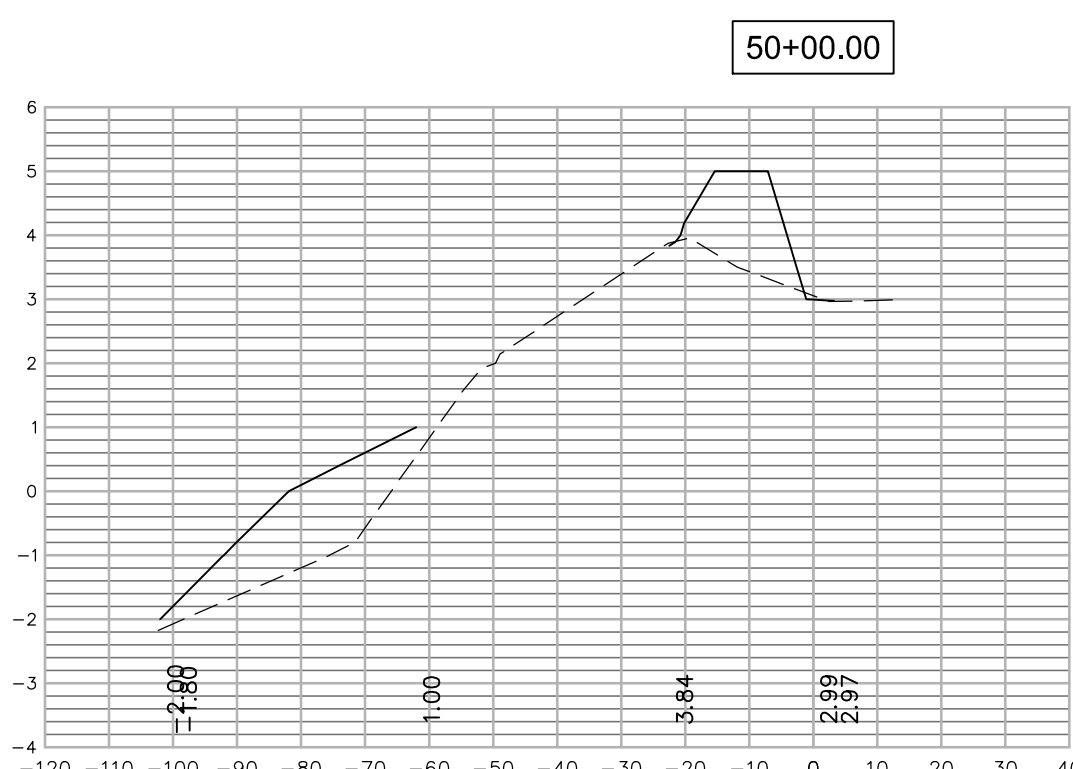
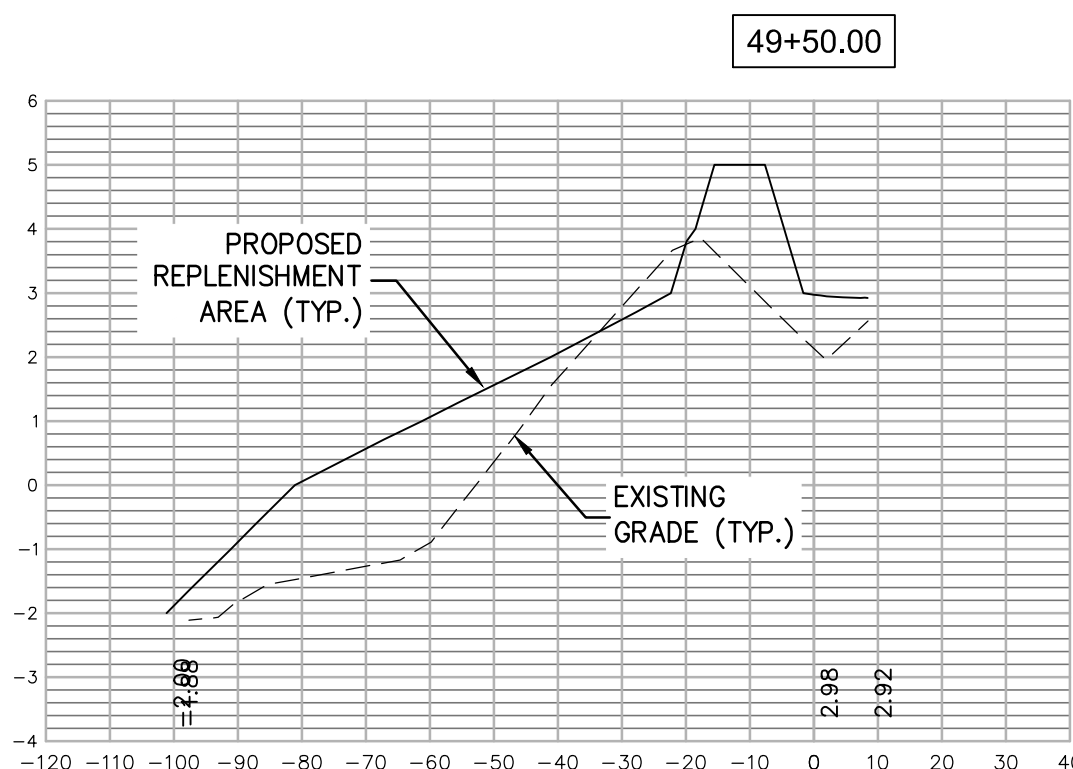
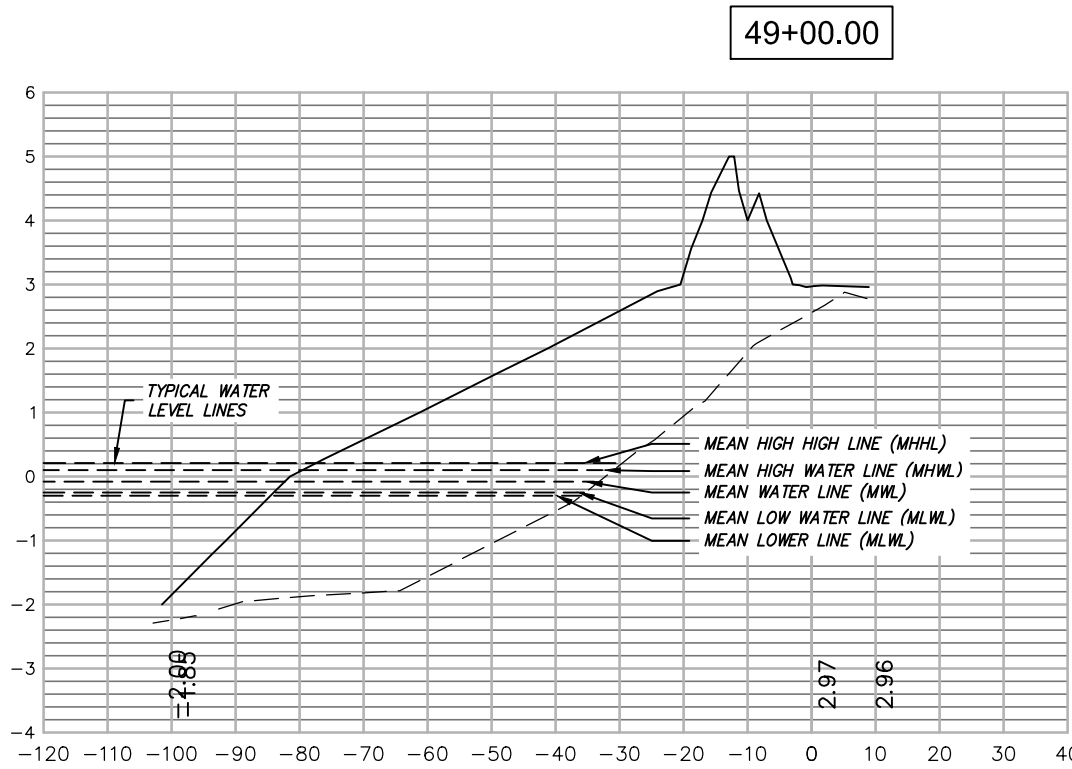
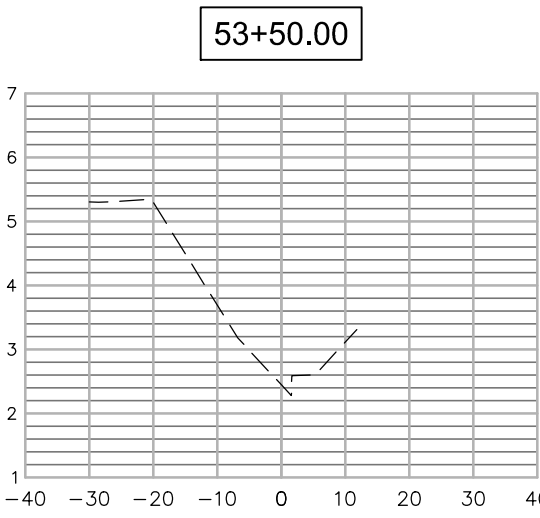
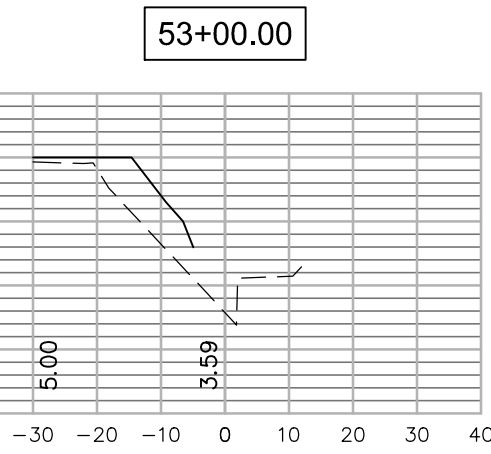
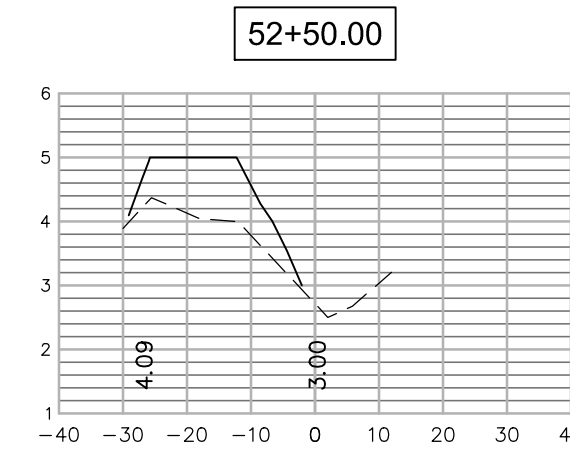
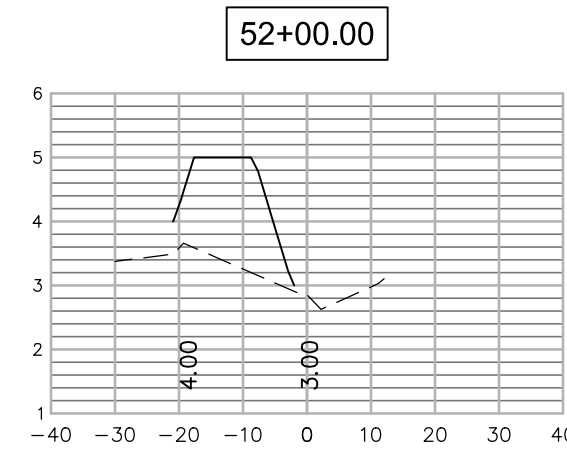
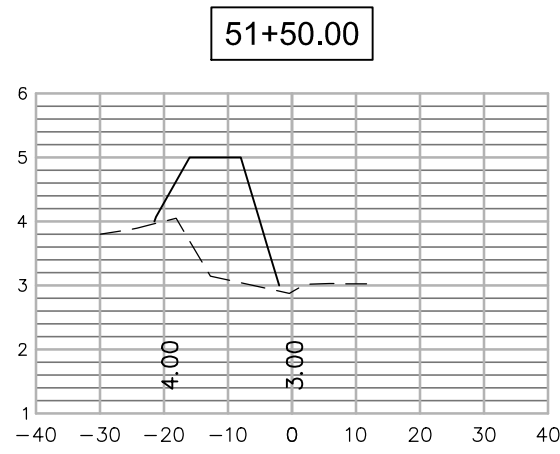


PROFILE NOTE:
1. OUTFALL SECTION SHOWN ON SHEET 7 OF 18 AT APPROXIMATE STATION 49+00.
2. ELEVATION ARE ON DATUM NAVD-1988.
3. SEE SHEET 14 OF 18 FOR PILE SPACING.
4. SEE DETAIL "OUTFALL PIPE EXTENSION".

OUTFALL EXTENTION #2
PROFILE: 0+00 - 1+00

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

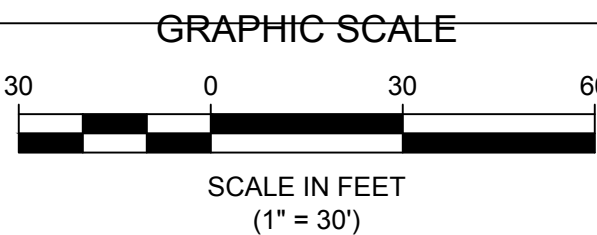
HIGH TIDE LINE (HTL)	ELEV. +0.21
MEAN HIGH WATER LINE (MHWL)	ELEV. +0.10
MEAN TIDE LEVEL	ELEV. -0.08
MEAN LOW WATER LINE (MLWL)	ELEV. -0.25
MEAN LOWER LOW WATER (MLLW)	ELEV. -0.30



CROSS SECTIONS NOTE:
1. PLEASE SEE TYPICAL CROSS SECTIONS ON PAGE 13 FOR WATER LINE LEVELS.
2. ELEVATION ARE ON DATUM NAVD-1988.

CROSS SECTIONS

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'



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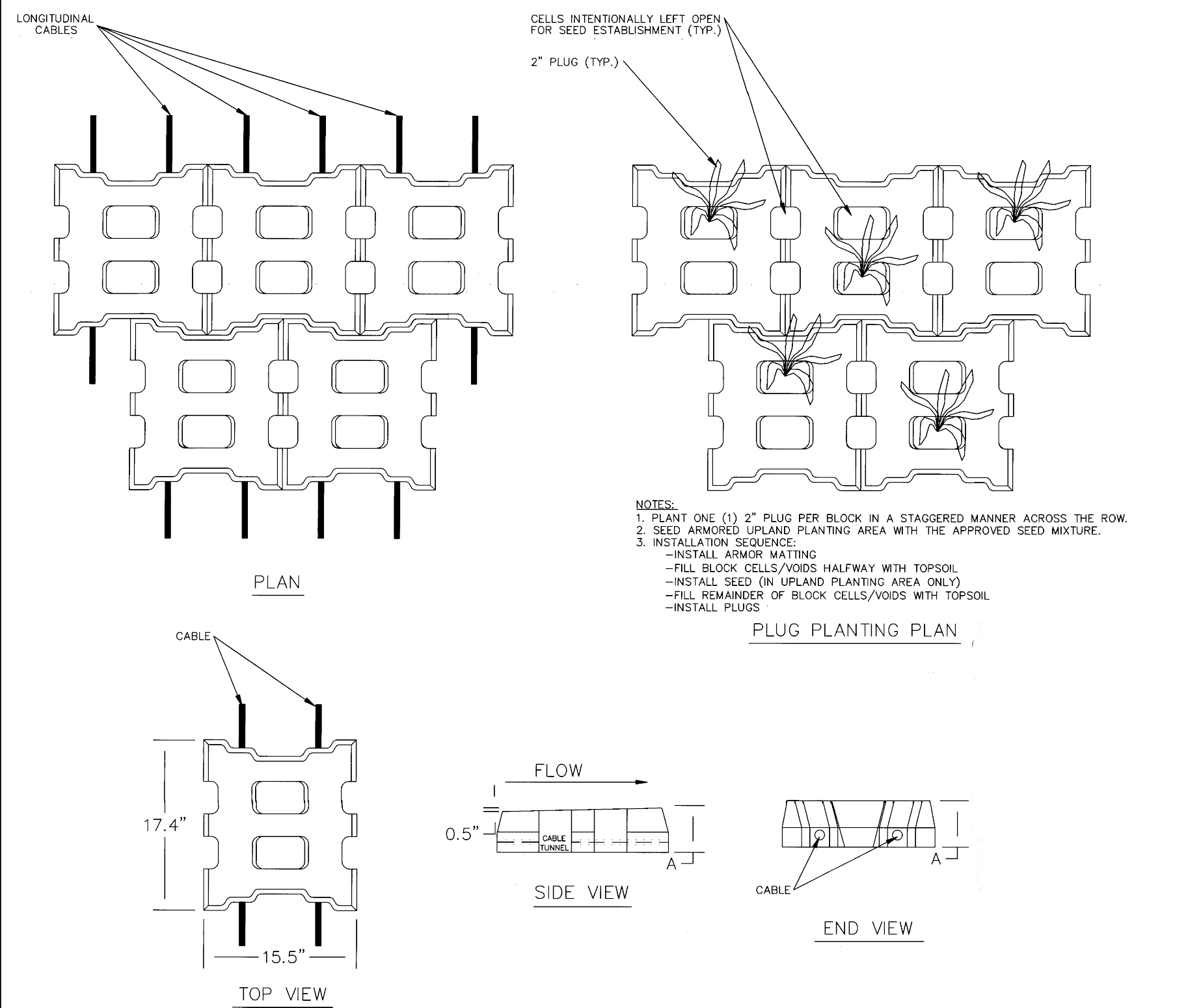
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6	REV. PER. ARMY CORP. REVIEW LETTER 11/19/21	PS	AL
5	REV. PER. ARMY CORP. REVIEW LETTER 10/14/21	PS	AL
4	REV. PER. ARMY CORP. REVIEW LETTER 9/16/21	PS	AL
3	REV. PER. ARMY CORP. REVIEW LETTER 3/28/21	PS	AL

CROSS SECTIONS (4)

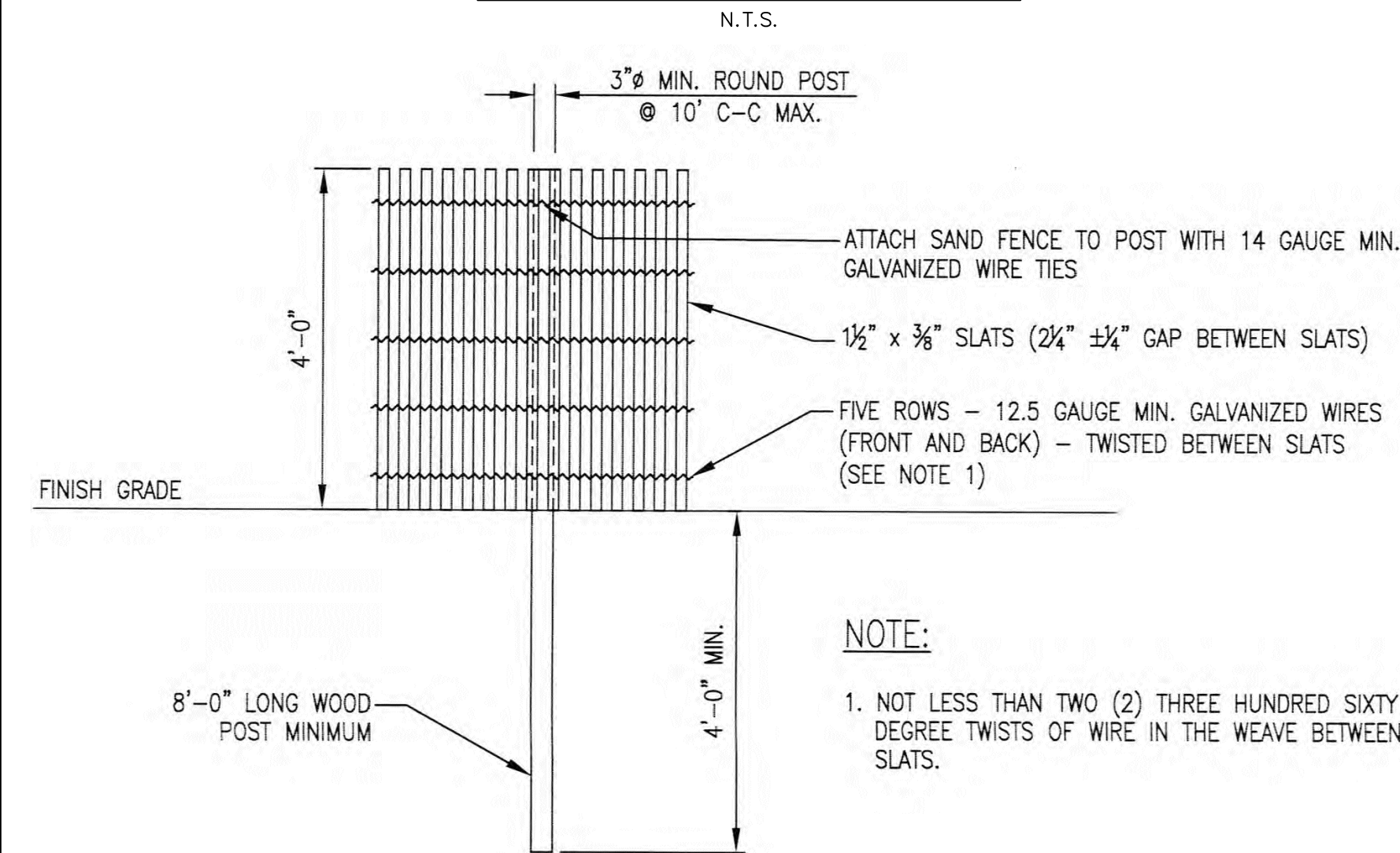
BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE OCEAN COUNTY NEW JERSEY

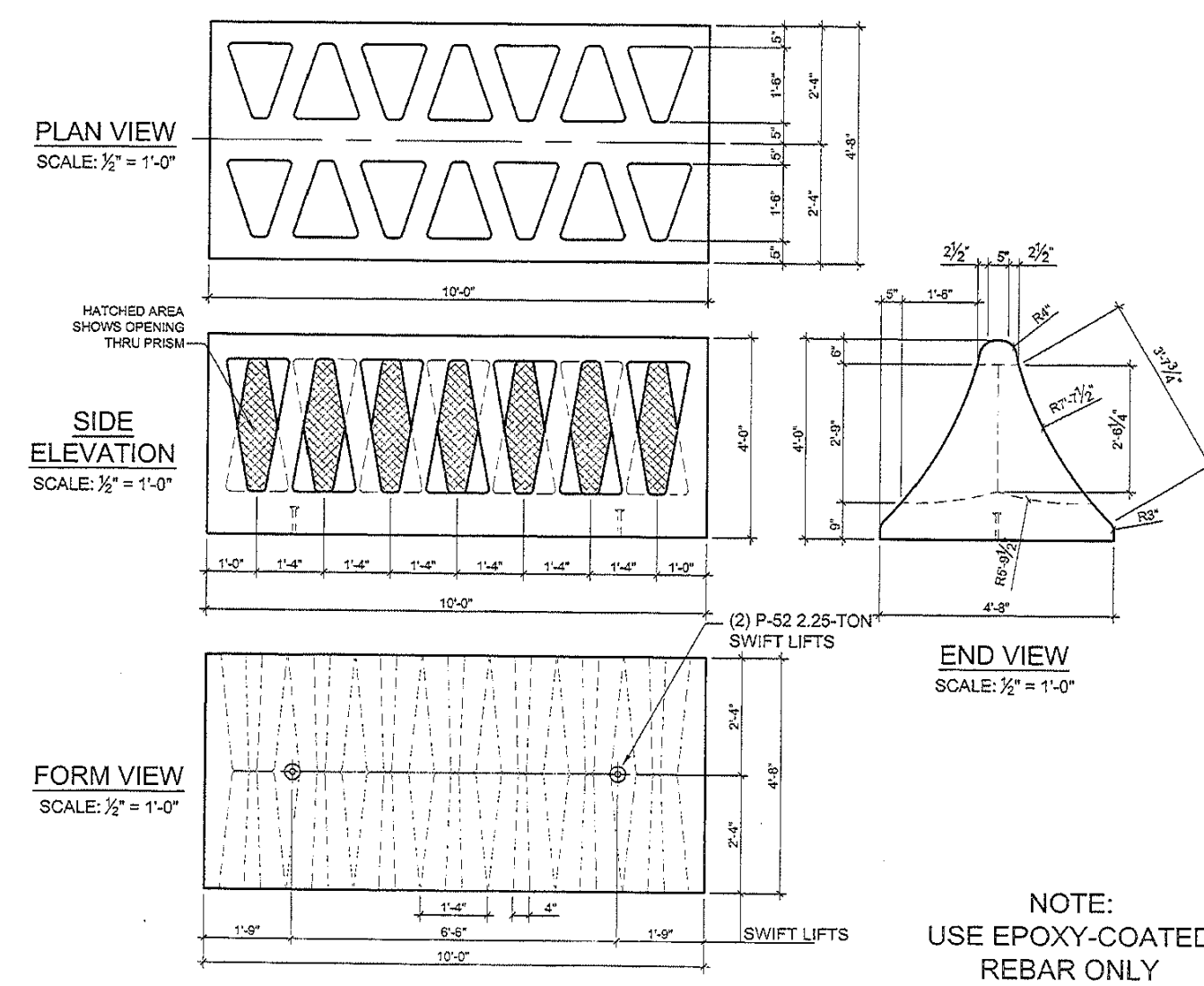
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DATE: 8 - 21 - 20		SHEET No.: 12 of 18	
JOB No.: 1522 - U - 029		N:\DRAW\Ocean Gate\1522U029\U029-PLANS	



ARTICULATED MATTING DETAIL



DUNE FENCE DETAIL



CONCRETE BEACH PRISM DETAIL

HIGH TIDE LINE (HTL) ELEV. +0.21
MEAN HIGH WATER LINE (MHWL) ELEV. +0.10
MEAN TIDE LEVEL ELEV. -0.08
MEAN LOW WATER LINE (MLWL) ELEV. -0.25
MEAN LOWER LOW WATER (MLLW) ELEV. -0.30

HIGH TIDE LINE (HTL) ELEV. +0.21
MEAN HIGH WATER LINE (MHWL) ELEV. +0.10
MEAN TIDE LEVEL ELEV. -0.08
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MEAN LOWER LOW WATER (MLLW) ELEV. -0.30

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MEAN TIDE LEVEL ELEV. -0.08
MEAN LOW WATER LINE (MLWL) ELEV. -0.25
MEAN LOWER LOW WATER (MLLW) ELEV. -0.30

HIGH TIDE LINE (HTL) ELEV. +0.21
MEAN HIGH WATER LINE (MHWL) ELEV. +0.10
MEAN TIDE LEVEL ELEV. -0.08
MEAN LOW WATER LINE (MLWL) ELEV. -0.25
MEAN LOWER LOW WATER (MLLW) ELEV. -0.30

CROSS SECTION NOTE:

1. STATION 0+00 TO 2+00 IS TYPICAL SECTION "A".
2. STATION 6+75 TO 16+75 IS TYPICAL SECTION WITH DUNE GRASS.
3. STATION 16+75 TO 34+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
4. STATION 34+00 TO 36+25 IS TYPICAL SECTION WITH DUNE GRASS.
5. STATION 36+25 TO 40+00 IS TYPICAL SECTION "B".
6. STATION 40+00 TO 41+25 IS TYPICAL SECTION WITH DUNE GRASS.
7. STATION 41+25 TO 45+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
8. STATION 45+00 TO 49+00 IS TYPICAL SECTION WITH DUNE GRASS.
9. STATION 49+00 TO 53+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.

DUNE SECTION WITHOUT VEGETATION

DUNE SECTION WITH VEGETATION TYPICAL DUNE SECTION

TYPICAL DUNE SECTION "A"

TYPICAL DUNE SECTION "B"



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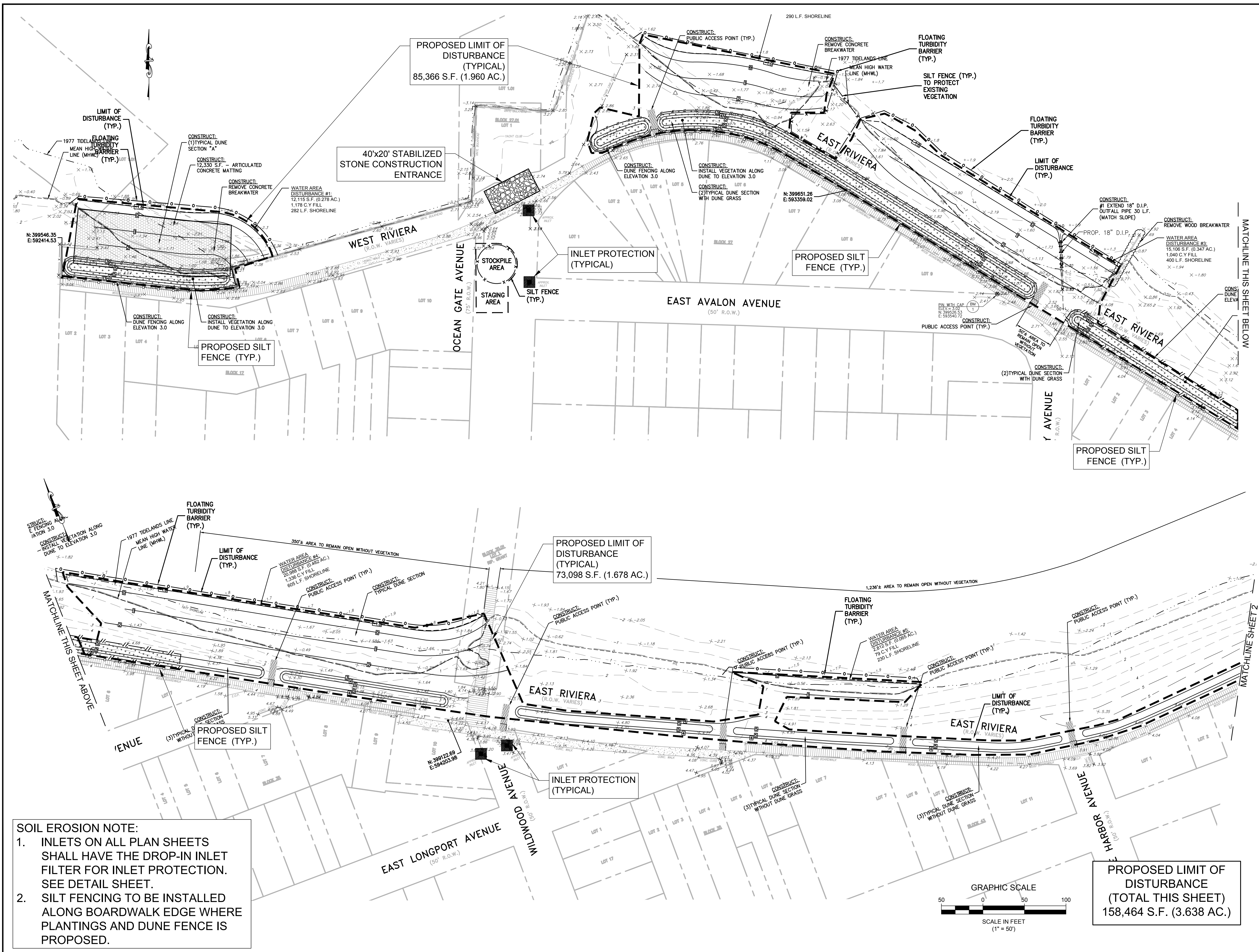
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3	6-16-21	PS	AL	REV. PER ARMY CORP. REVIEW LETTER 3/26/21
2	2-23-21	PS	MC	REV. PER ARMY CORP. REVIEW LETTER 11/6/20
1				

CONSTRUCTION DETAILS (1)

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE
OCEAN COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
JK / PS	PH	PH	AS SHOWN
DATE:	8-21-20	SHEET No.:	13 of 18
JOB No.:	1522-UJ-029		
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REV.	PER	DATE	REVISION	DATE	BY	CHK
1	REV.	11-2-20	1	11-2-20	PH	PS

SOIL EROSION PLAN (1)

BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
BOROUGH OF OCEAN GATE
OCEAN COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
JK / PS	PH	PH	AS SHOWN

DATE:
8-21-20

JOB NO.:
1522-U-029

SHEET NO.:
15 of 18

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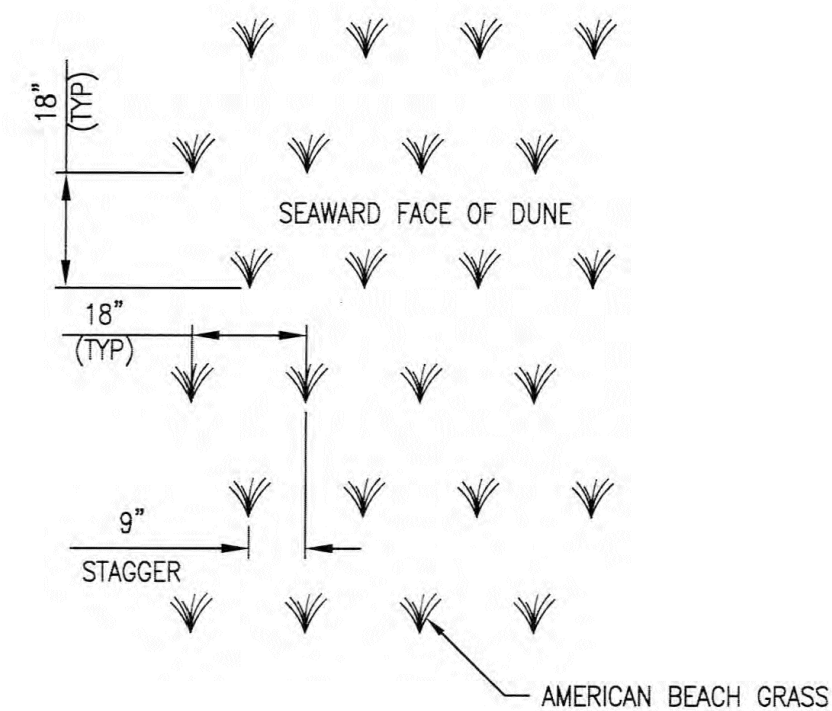
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NJ PROFESSIONAL ENGINEER Lic. No. 37672



Stockpile Notes:

1. Stockpile to be placed as determined in the field.
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 is 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 boses shall be protected by a hay bale barrier or sediment fence.
6. All topsoil stockpiles to be stockpiled for use in final grading shall receive temporary seeding.
7. Weeds should not be allowed to grow on stockpiles.

Topsoil Stockpile Protection:

1. Construct temporary diversion berm and/or sediment filter fence and/or hay bale barrier around stockpiled area as required.
2. Apply limestone at a rate of 137 lbs/1,000 sf. (limestone rate shall be determined based on soil testing and soil type).
3. Apply fertilizer (10–20–10) at a rate of 11 lbs/1,000 sf.
4. Apply perennial ryegrass at a rate of 1 lb/1,000 sf.
5. Mucn with unratted soil hay or small grain straw immediately after seeding. Apply at a rate of 90 lbs/1,000 sf.

STOCKPILE CONSTRUCTION DETAIL

N.T.S.

