STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF COASTAL ENGINEERING HOLGATE TERMINAL GROIN TOWNSHIP OF LONG BEACH, OCEAN COUNTY, NEW JERSEY N.J.D.E.P. PROJECT NUMBER 4295-18

INDEX OF DRAWINGS

SHEET NO. **DESCRIPTION** TITLE SHEET AND LOCATION PLAN GENERAL NOTES AND SITE ACCESS AND STAGING AREA LAYOUT **EXISTING CONDITIONS AND DEMOLITION PLAN CONSTRUCTION PLAN AND PROFILE GROIN CROSS SECTION PLAN** TYPICAL SECTIONS AND MISC. DETAILS

CONTACT INFROMATION

UNITED STATES ARMY CORPS OF ENGINEERS 100 E. PENN SQUARE

LONG BEACH TOWNSHIP PUBLIC WORKS DEPT 7910 LONG BEACH BOULEVARD

BEACH HAVEN CREST

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PHILADELPHIA. PA 19197

TOMS RIVER, N.J. 08753

& ASSOCIATES, INC.

"APPROVED FOR CONSTRUCTION."

1510 HOOPER AVENUE

LONG BEACH TOWNSHIP WATER DEPARTMENT 805 LONG BEACH BOULEVARD

OCEAN COUNTY ENGINEER'S OFFICE

101 HOOPER AVENUE TOMS RIVER, NJ 08753 **BRANT BEACH N.J. 08008**

8805 LONG BEACH BOULEVARD **BRANT BEACH N.J. 08008**

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LOCATION PLAN SCALE: 1"=200'

N (Y): 254106 E (X): 559066 LAT: N 39.5308044 DEPARTMENT OF ENVIRONMENTAL PROTECTION CATHERINE R. McCABE, COMMISSIONER

ENGINEERING AND CONSTRUCTION DAVE ROSENBLATT, ASSISTANT COMMISSIONER



STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION **ENGINEERING & CONSTRUCTION DIVISION OF COASTAL ENGINEERING HOLGATE TERMINAL GROIN** TOWNSHIP OF LONG BEACH, OCEAN COUNTY, NEW JERSEY N.J.D.E.P. PROJECT NUMBER 4295-18

TITLE SHEET AND LOCATION PLAN

DRAWN BY: JSM CHECKED BY: GK SCALE: AS SHOWN DWG. NO. **E-36-28** DATE: 5/30/18

LON: W -074.2626568

GENERAL NOTES:

- 1. ALL GENERAL NOTES AND CONSTRUCTION NOTES APPLY TO ALL SHEETS OF THE CONTRACT DRAWINGS.
- 2. THE CONTRACT DRAWINGS ARE INTENDED TO EXPLAIN THE VARIOUS TYPES OF WORK AND AS SUCH ARE INTERRELATED. WHILE IT IS INTENDED THAT DISCREPANCIES BETWEEN THE VARIOUS DISCIPLINE'S DRAWINGS WILL BE NON-EXISTENT, THERE IS A LIKELIHOOD THAT FIELD ADJUSTMENTS AND CORRECTIONS WILL OCCASIONALLY BE REQUIRED IN THE INTERPRETATION OF THE DOCUMENTS.
- 3. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND DETAILS ON THE DRAWINGS TO DETERMINE THE EXTENT OF WORK UNDER THE CONTRACT, ANY AND ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- 4. LIGHT LINE WEIGHT TYPICALLY INDICATES EXISTING CONDITIONS WHERE WORK IS NOT REQUIRED. BOLD LINE WEIGHT TYPICALLY INDICATES EXISTING AND/OR NEW CONDITIONS WHERE MODIFICATION WORK IS REQUIRED.
- 5. IT IS THE INTENT OF THE CONTRACT DRAWINGS TO PROVIDE DETAILED GUIDANCE AS TO WHAT MUST BE CONSTRUCTED, HOWEVER THE METHOD OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS ADVISED TO REVIEW THE CONTRACT DRAWINGS OF ALL DISCIPLINES PRIOR TO UNDERTAKING CONSTRUCTION IN ANY AREA SO AS TO ASSURE HIMSELF OF THE COMPLETENESS AND CORRELATION OF THE WORK TO
- 6. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE OF THE WORK PRIOR TO PREPARING HIS BID IN ORDER TO COMPLETELY FAMILIARIZE HIMSELF WITH THE DIFFICULTIES ATTENDANT TO THIS PROJECT FROM THE STANDPOINT OF MAINTAINING PUBLIC SAFETY RELATED TO ON AND OFF-SITE TRAFFIC; EXISTING STRUCTURES; AND UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR MUST READ THE PERTINENT SECTIONS OF THE SPECIFICATIONS REGARDING REMOVAL OF EXISTING CONSTRUCTION, SITE UTILIZATION, SOIL EROSION AND SEDIMENT CONTROL, SAFETY, FLOW MAINTENANCE AND SECTIONS OF SIMILAR IMPORTANCE. HE SHALL ALSO READ NOTES ON DRAWINGS RELATING TO DEMOLITION OF EXISTING CONSTRUCTION. WHENEVER A CONFLICT OCCURS BETWEEN THE REQUIREMENTS SHOWN ON THE CONTRACT DRAWINGS, THOSE SPECIFIED OR THOSE INDICATED BY ACTUAL FIELD CONDITIONS; THE CONTRACTOR SHALL ASSUME THAT THE MOST SEVERE REQUIREMENT WILL BE IMPOSED AND PREPARE HIS BID ACCORDINGLY. CERTAIN UNFORESEEN CONDITIONS SHOULD BE EXPECTED TO OCCUR AND SUCH CONDITIONS WILL REQUIRE CLOSE INTERACTION BETWEEN THE OWNER, THE ENGINEER, THE CONTRACTOR AND THE VARIOUS REGULATORY AGENCIES IN ORDER TO RESOLVE PROBLEMS. EVERY EFFORT IS TO BE MADE TO RESOLVE SUCH PROBLEMS IN A TIMELY MANNER CONSISTENT WITH GOOD ENGINEERING PRACTICE AND ECONOMIES OF BOTH TIME AND MONEY TO THE SATISFACTION
- 7. THE CONTRACTOR SHALL ESTABLISH BASE LINES IN THE FIELD AND PLACE MONUMENTS PRIOR TO START OF CONSTRUCTION FOR LAYOUT PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A LICENSED SURVEYOR TO ACCURATELY LOCATE ALL PROPOSED WORK.

OF ALL PARTIES CONCERNED.

- 8. ACCESS TO THE SITE IS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL MAINTAIN THIS ACCESS IN A NEAT MANNER AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT A PLAN OF THE STORAGE AREA LAYOUT TO LONG BEACH TOWNSHIP AND NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR APPROVAL.
- 9. ALL EARTHWORK ACTIVITIES SHALL COMPLY WITH THE COUNTY SOIL CONSERVATION DISTRICT'S RULES AND REGULATIONS GOVERNING EROSION CONTROL.
- 10. THE CONTRACTOR SHALL RESTORE ALL AREAS WHICH ARE DISTURBED AS A RESULT OF HIS CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION ACTIVITIES. EXISTING DUNE AREAS SHALL BE UNDISTURBED. ADDITIONAL SPACE REQUIRED FOR TEMPORARY CONSTRUCTION ACTIVITIES SHALL BE PROCURED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND SUCH AREAS SHALL BE RESTORED AND CLEANED UP TO THE SATISFACTION OF THE OWNER.
- 11. ALL LOCATIONS, DIMENSIONS AND ANGLES OF NEW STRUCTURE TO BE VERIFIED
- 12. THE CONTRACTOR SHALL USE STABILIZED FILL MATERIALS AS NEEDED IN ALL AREAS DESIGNATED AS ACCESS ROUTES TO NEW INSTALLATION.
- 13. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND NJ ONE CALL 800-272-1000 PRIOR TO CONSTRUCTION AND ALL PIPELINES AND/OR CONDUITS SHALL BE MARKED OUT. TEST HOLES SHALL BE DUG PRIOR TO CONSTRUCTION IN ORDER TO LOCATE UTILITY CROSSINGS.
- 14. ANY EXISTING IUTILITY THAT IS IN CONFLICT WITH THE NEW CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND SHALL BE RELOCATED AS REQUIRED TO AVOID CONFLICT.
- 15. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ALL OTHER LOCAL AGENCIES, UTILITY COMPANIES, AND ADJACENT HOMEOWNERS AS NECESSARY, A MINIMUM OF 72 HOURS PRIOR TO ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ESTABLISH HIS WORK HOURS BASED UPON THE LOCAL MUNICIPAL ORDINANCE. CONTRACTOR SHALL OBTAIN ALL NECESSARY ROAD OPENING PERMITS FROM THE APPROPRIATE AGENCIES AND SHALL INCLUDE ALL ASSOCIATED COSTS IN VARIOUS BID ITEMS.
- 16. ALL CONSTRUCTION SHALL BE WITHIN PROJECT LIMITS, CONSTRUCTION ACTIVITY, STORAGE, STOCKPILING AND ACCESS SHALL NOT TAKE PLACE ON PRIVATE PROPERTY UNLESS SUCH ARRANGEMENTS HAVE BEEN MADE BY CONTRACTOR AND WRITTEN PROOF OF AGREEMENTS ARE PROVIDED TO THE
- 17. EXCAVATIONS SHALL BE SHEETED AND BRACED AS NECESSARY TO COMPLY WITH ALL APPLICABLE LABOR REGULATIONS AND TO PROTECT EXISTING UTILITIES, (REFER TO SPECIFICATIONS FOR FURTHER DETAILS) SHEETING MUST BE DESIGNED AND USED IN ACCORDANCE WITH APPLICABLE STANDARDS AND AS NOTED IN THE SPECIFICATIONS.
- 18. SURFACE FEATURES, INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB CUTS, DRIVEWAYS, UTILITY POLES, AND SIGNS, ARE GENERALLY NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SURFACE FEATURES AS NECESSARY PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- 19. ANY DISTURBED ASPHALT ROADWAY, CONCRETE CURBING, CONCRETE SIDEWALK, ASPHALT DRIVEWAYS, CONCRETE DRIVEWAY APRON AND IMPROVED LAWN AREAS SHALL BE RESTORED BY THE CONTRACTOR AT THE END OF CONSTRUCTION. TEMPORARY RESTORATION SHALL BE PROVIDED (WHERE REQUIRED) SO AS NOT TO PROHIBIT ACCESS TO ROADWAYS, PRIVATE DRIVES, ETC. DURING CONSTRUCTION, ALL COSTS FOR RESTORATION SHALL BE INCLUDED UNDER THE VARIOUS CORRESPONDING ITEMS IN THE BID.
- 20. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING PIPELINES, POLES AND STRUCTURES DURING THE INSTALLATION OF NEW WORK. THE COST TO PROVIDE THIS PROTECTION SHALL BE BORNE BY THE CONTRACTOR. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND ALL COSTS FOR REPAIR SHALL BE BORNE BY THE CONTRACTOR.
- 21. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN LOCAL AND EMERGENCY ACCESS AT ALL TIMES DURING CONSTRUCTION.
- 22. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS AND SPECIFICATIONS IN GOOD LEGIBLE CONDITION ON THE IMMEDIATE JOB SITE AT ALL TIMES.
- 23. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH CUT SHEETS WHICH DETAIL THE APPROPRIATE STATIONING, OFFSETS AND ELEVATIONS FOR ALL LINEAR TYPE CONSTRUCTION. ALL CUT SHEETS SHALL BE PROVIDED A MINIMUM OF 7-DAYS IN ADVANCE OF CONSTRUCTION AND SHALL INCLUDE ALL INFORMATION GATHERED DURING TEST PITS.
- CONSTRUCTION AND POST-CONSTRUCTION RECORD PHOTOGRAPHS FOR ALL PHASES OF WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.

24. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH PRE-CONSTRUCTION,

25. CONSTRUCTION ACCESS POINT AND LOCATION HAS BEEN COORDINATED WITH LONG BEACH TOWNSHIP. CONTRACTOR SHALL NOTIFIY THE TOWNSHIP PRIOR TO PREPARING SITE ACCESS, USE OF OR MODIFICATIONS OF SAME.

26. ALL ELEVATIONS ARE REFERENCED TO HORIZONTAL DATUM NAD 1983 AND

- VERTICAL DATUM NAVD 1988.
- 27. CONTRACTOR SHALL DETOUR PEDESTRIAN TRAFFIC FOR SAFETY AS NECESSARY DURING OPERATIONS.
- 28. CONTRACTOR SHALL KEEP SITE SECURE AT ALL TIMES. COPYRIGHT 2018 OWEN, LITTLE & ASSOCIATES, INC.

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UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED

AND THE DRAWINGS HAVE BEEN INITIALED TO INDICATE

"APPROVED FOR CONSTRUCTION."

- 29. THE CONTRACTOR SHALL CONDUCT WORK OPERATIONS AS TO MINIMIZE DISTURBANCE OF AREAS OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS. DAMAGE TO PROPERTY BEYOND THE CONSTRUCTION LIMITS, WHICH OCCURS AS A RESULT OF THE CONTRACTOR'S OPERATIONS, WILL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO ORIGINAL CONDITIONS.
- 30. BIDDERS ARE EXPECTED TO READ AND BECOME FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING ALL ADDENDA; TO VISIT THE SITE OF THE WORK; TO MAKE THEIR OWN ESTIMATES OF THE PLANT, LABOR, MATERIAL, EQUIPMENT, FACILITIES AND SERVICES NEEDED TO PERFORM THE WORK; TO MAKE ANY REQUIRED TESTS AND INSPECTIONS AND TO EVALUATE THE DIFFICULTIES ATTENDING THE EXECUTION OF THE PROPOSED CONTRACT, INCLUDING LOCAL CONDITIONS, SITE CONDITIONS, LOCATION AND AVAILABILITY OF UTILITIES, LABOR, TRANSPORTATION FACILITIES, UNCERTAINTIES OF WEATHER, TIDES, SUBSURFACE CONDITIONS AND OTHER CONTINGENCIES.
- 31. THE CONTRACTOR SHALL VERIFY CURRENT LOCATION AND PROTECT ALL OBSTRUCTIONS LOCATED WITHIN THE WORKING AREA WHICH MAY BE AFFECTED BY HIS OPERATIONS.
- 32. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGE TO EXISTING STRUCTURES OR UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COSTS FOR REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
- 33. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULTS OF SUCH INVESTIGATIONS A MY BE SHOWN ON THE CONTRACT DRAWINGS, ARE NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. ALL EXISTING UTILITIES ARE SHOWN FOR GENERAL INFORMATION ONLY.
- 34. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL LAWS, ORDINANCES, ETC. IN THE EXECUTION OF THIS WORK.
- 35. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE "HIGH VOLTAGE PROXIMITY ACT".
- 36. PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE, AND CERTIFICATES OF INSURANCE (FOR GENERAL AND SUBCONTRACTORS) TO THE OWNER AND ENGINEER FOR APPROVAL.
- 37. THE CONTRACTOR IS ADVISED THAT ALL CITY PUBLIC NUISANCE LAWS AND NOISE ORDINANCES SHALL BE OBSERVED DURING THE COURSE OF CONSTRUCTION.
- 38. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN APPROPRIATE SIGNAGE FOR TRAFFIC CONTROL AND PEDESTRIAN SAFETY DURING CONSTRUCTION. ALL SIGNAGE FOR TRAFFIC CONTROL AND PEDESTRIAN SAFETY AND ANY PROPOSED DETOUR ROUTES ARE TO BE COORDINATED WITH AND APPROVED BY LONG BEACH TOWNSHIP AND NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 39. CONTRACTOR ACKNOWLEDGES THAT HE HAS UNDERTAKEN WHATEVER PRE-BID INVESTIGATIONS HE DEEMS NECESSARY TO ASCERTAIN THE COMPOSITION, SIZE, SHAPE, LOCATION, AND DEPTH OF MATERIALS THAT WILL BE UTILIZED IN THE PROJECT THAT PRESENTLY EXISTS ABOVE OR BELOW THE WATER LINE, WITHIN THE LIMIT OF CONSTRUCTION.
- 40. CONTRATOR IS ADVISED THAT VARIOUS FEATURES AND COMPONENTS OF THE EXISTING STRUCTURES AND WORK TO BE COMPLETED ARE INFLUENCED BY TIDAL CONDITIONS AND HE MUST COORDINATE HIS ACTIVITIES IN A COORDINATED MANNER TO PROPERLY EFFECT HIS WORK AND REQUIRED OWNERS INSPECTIONS.
- 41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL MUNICIPAL CONSTRUCTION AND DEMOLITION PERMITS REQUIRED AND FOR SCHEDULING OF INSPECTIONS WITH THE MUNICIPAL CONSTRUCTION OFFICE, IF REQUIRED, DURING CONSTRUCTION.
- 42. THE CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS, LICENSES AND INSPECTIONS AND SHALL BE RESPONSIBLE FOR ALL CHARGES AND FEES OTHER THAN NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND USAGE PERMITS AS WELL AS GIVE NOTICES NECESSARY FOR ALL INCIDENTALS FOR THE PROJECT UNLESS OTHERWISE EXCLUDED IN THE CONTRACT
- 43. ALL RECYCLABLE DEMOLITION MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED RECYCLING FACILITY AT NO ADDITIONAL COST TO THE
- 44. ALL EXCESS DEMOLITION OR CUT-OFF MATERIALS SHALL BE DELIVERED TO A LAWFUL SITE LOCATION, PROVIDED BY THE CONTRACTOR AT HIS EXPENSE. ALL CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PROJECT SITE PRIOR TO THE END OF EACH DAY OR AT AN ALTERNATE SCHEDULE APPROVED BY THE ENGINEER TO ELIMINATE ANY POTENTIAL HAZARDS. ALL AREAS DISTURBED OR DAMAGED BY THE CONTRACTOR, SHALL BE RETURNED TO ITS ORIGINAL CONDITION OR BETTER, BY THE CONTRACTOR, AT HIS EXPENSE.
- 45. AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL BROOM-SWEEP STREETS AND USE APPROVED METHODS TO CONTROL DUST.
- 46. ALL SHOP DRAWINGS, MATERIALS AND EQUIPMENT TO BE INSTALLED AND ALL OTHER REQUIRED SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 47. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES, NIGHT-LIGHTS (FLASHERS, ETC.) AND RAILS FOR PROTECTION OF THE PUBLIC. ALL OBSTRUCTIONS, WHICH MAY ENDANGER LIVES OR PROPERTY, SHALL BE PROPERLY LIGHTED AND MARKED WITH RAILINGS OR OTHER GUARDS.
- 48. DETOURING OF VEHICULAR OR PEDESTRIAN TRAFFIC SHALL BE KEPT TO A MINIMUM AND BE SUBJECT TO PRIOR APPROVAL AND NOTIFICATION OF LOCAL OFFICIALS.
- 49. ALL CONSTRUCTION AREAS ARE TO BE KEPT IN A CONDITION THAT ALLOWS FOR

SAFE MOVEMENT OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC.

- 50. INSPECTIONS OR FAILURES TO INSPECT ANY MATERIALS OR WORKMANSHIP BY LOCAL, STATE OR FEDERAL OFFICIALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
- 51. THE CONTRACTOR SHALL PROVIDE SUITABLE AND SAFE MEANS FOR VARIOUS AGENCIES TO INSPECT THE WORK COMPLETED BY THE CONTRACTOR..
- 52. THE CONTRACTOR SHOULD GENERALLY LIMIT CONSTRUCTIONOPERATIONS AND ACTIVITIES BETWEEN THE HOURS OF 7:00 A.M. TO 8:00 P.M. UNLESS STRICTER LIMITATIONS ARE ESTABLISHED BY LAW. MACHINERY OPERATIONS, OR OPERATIONS ENTAILING THE USE OF ENGINES OR MOTORS WILL NOT BE PERMITTED, OTHER THAN BETWEEN THE HOURS OF 7:00 A.M. TO 6:00 P.M. WITHOUT APPROVAL FROM LONG BEACH TOWNSHIP.
- 53. NO MATERIALS SHALL BE PLACED OR ANY DISTURBANCE PERMITTED BEYOND THE PROJECT LIMITS WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
- 54. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 55. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- 56. SEPARATE PAYMENT WILL NOT BE MADE FOR DUST CONTROL AND REMOVAL AND DISPOSAL OF EXCESS OR UNWANTED MATERIAL OR DEBRIS. THE COST OF THIS WORK SHALL BE INCLUDED UNDER THE VARIOUS PAY ITEMS IN THE PROPOSAL.
- 57. THE CONTRACTOR SHALL CONDUCT DEMOLITION AND CONSTRUCTION WORK IN A MANNER TO PRECLUDE THE RELEASE OF MATERIALS, FUELS AND DEBRIS INTO THE WATERS ADJACENT TO THE WORK.
- 58. EXISTING CONTOUR, PROFILES AND SECTIONS ARE BASED ON A SURVEY PERFORMED IN MAY 2018. CONTRACTOR SHALL BE ADVISED THAT THE GRADES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE DUE TO THE DYNAMIC NATURE OF THE COASTAL ZONE. CONTRACTOR SHALL INSPECT THE SITE PRIOR TO BID TO ASSESS EXACT CONDITIONS AT TIME OF BID. ALL ELEVATIONS ARE REFERENCED AT NAVD 1988.
- 59. THE PROJECT SITE AND STAGING AREA MUST BE RETURNED TO ITS PRE-EXISTING CONDITIONS AFTER COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED BY THE PROJECT OWNER. THE CONTRACTOR SHALL ANTICIPATE THE COSTS TO REMOVE ANY WASTE OR DEBRIS CREATED AS A RESULT OF CONSTRUCTION ACTIVITIES FROM THE SITE WITHIN HIS RESTORATION AND CLEANUP ESTIMATE. MATERIAL MUST BE PROPERLY DISPOSED OF AT AN APPROVED LOCATION OR LANDFILL. THE CONTRACTOR SHALL CONTACT THE PROJECT OWNER TO SCHEDULE FINAL INSPECTION BEFORE DEMOBILIZATION.
- 60. PARCEL MAP AND PROPERTY LINES ARE NOT EXACT. PROPERTY LINES WERE ACQUIRED FROM LONG BEACH TOWNSHIP TAX MAPS.
- 61. CONTRACTOR MAY CONSIDER CONSTRUCTION FROM EITHER LAND, SEA OR BOTH. ANTICIPATED. CONSTRUCTION MEANS AND METHODS SHOULD BE REFLECTED IN THIS UNIT AND LUMP SUM BID PRICES.



SITE ACCESS AND STAGING PLAN (TAX MAP / 2015 AERIAL MAP)

REVISION DESCRIPTION

<u>LEGEND</u> ---- CONSTRUCTION LIMIT LINE ---- HTL - HIGH TIDE LINE — · · — · · — · · — MLW – MEAN LOW WATER LINE ELEV. −2.44 ———— – – – MLLW – MEAN LOW LOW WATER LINE ELEV. –2.61 — · — · — · — · — HTL HIGH TIDE LINE ELEV.=3.09 — — — — — TOE OF DUNE — ELEV.=8.00 LAND STAGING AREA STAGING AREA S.D.R.E. (STORM DRAINAGE REDUCTION EASEMENT) PER TAX MAP — — — — — BULKHEAD LINE PER TAX MAP FORMER WATER LINE PER TAX MAP 3+00 4+00 CENTERLINE AND BASELINE OF GROIN

ROFESSIONAL ENGINEER Beachwood, NJ 08722 N.J. LIC. No. 27085

PROFESSIONAL PLANNER

& ASSOCIATES Ingineers, Planners, Surve 443 Atlantic City Blv

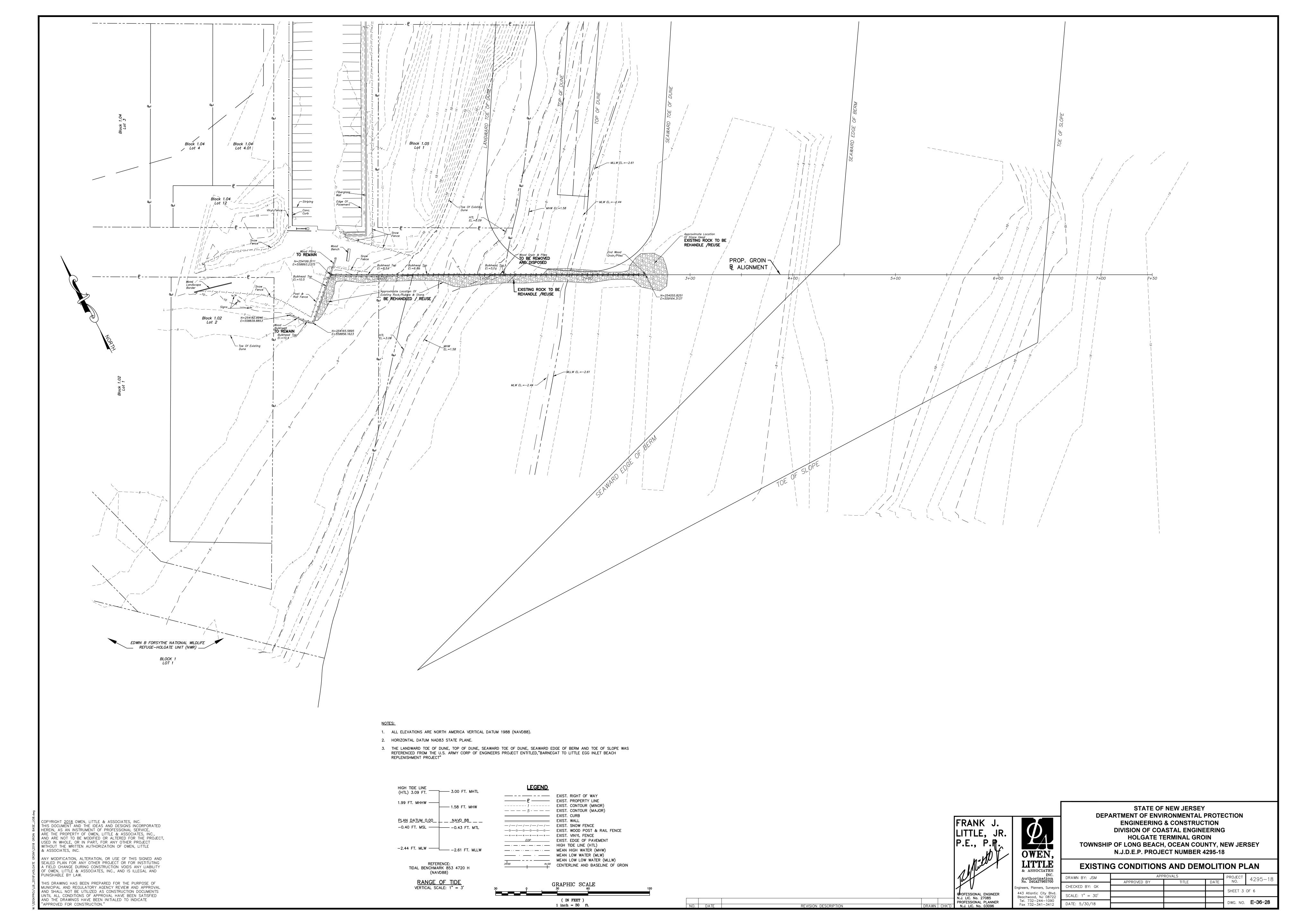
Fax 732-341-341

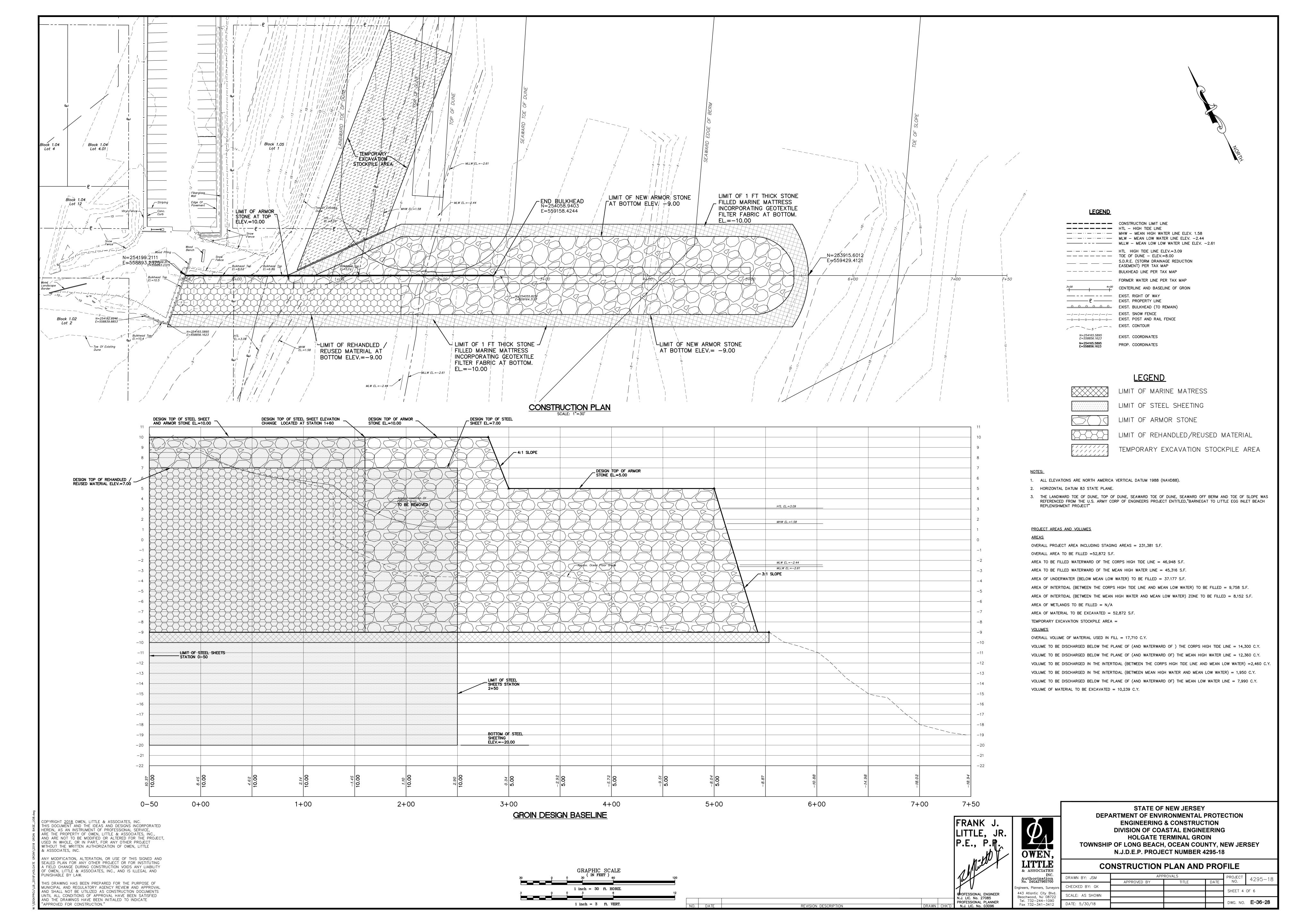
DEPARTMENT OF ENVIRONMENTAL PROTECTION **ENGINEERING & CONSTRUCTION DIVISION OF COASTAL ENGINEERING HOLGATE TERMINAL GROIN** TOWNSHIP OF LONG BEACH, OCEAN COUNTY, NEW JERSEY

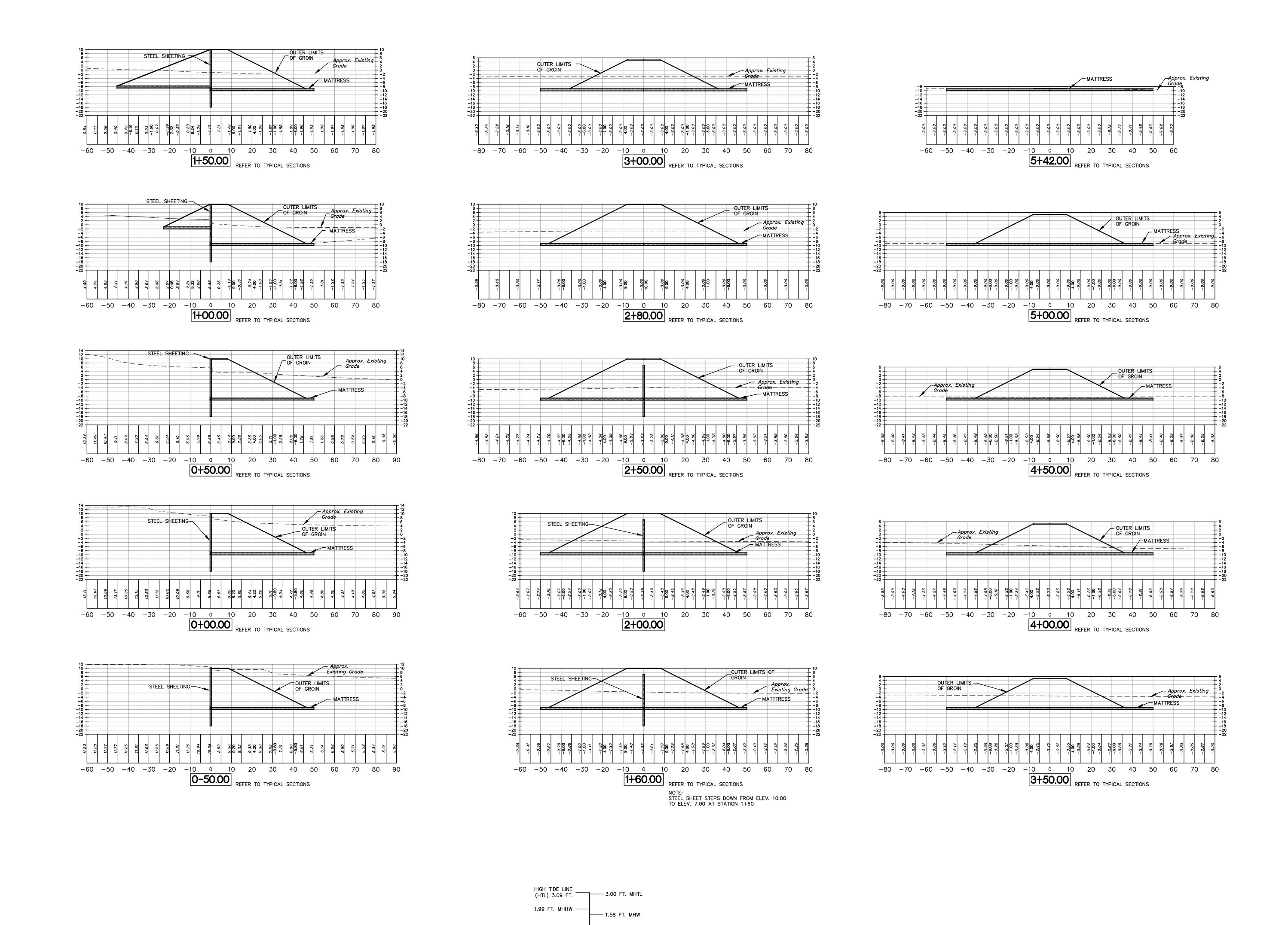
N.J.D.E.P. PROJECT NUMBER 4295-18 **GENERAL NOTES, SITE ACCESS AND STAGING AREA LAYOUT** DRAWN BY: JSM APPROVED BY TITLE

PROJECT CHECKED BY: GK SHEET 2 OF 6 SCALE: AS SHOWN WG. NO. **E-36-28** DATE: 5/30/18

STATE OF NEW JERSEY







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GRAPHIC SCALE

(IN FEET)

1 inch = 2 ft. HORIZ.

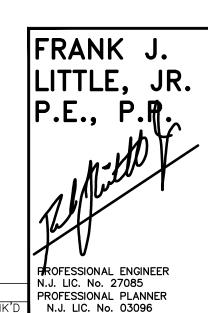
1 inch = 2 ft. VERT.

REFERENCE: TIDAL BENCHMARK 853 4720 H

(NAVD88)

RANGE OF TIDE

VERTICAL SCALE: 1" = 3'



REVISION DESCRIPTION

OWEN,
LITTLE
& ASSOCIATES
INC.
Authorization
No. 24GA27965700

engineers, Planners, Surveyors

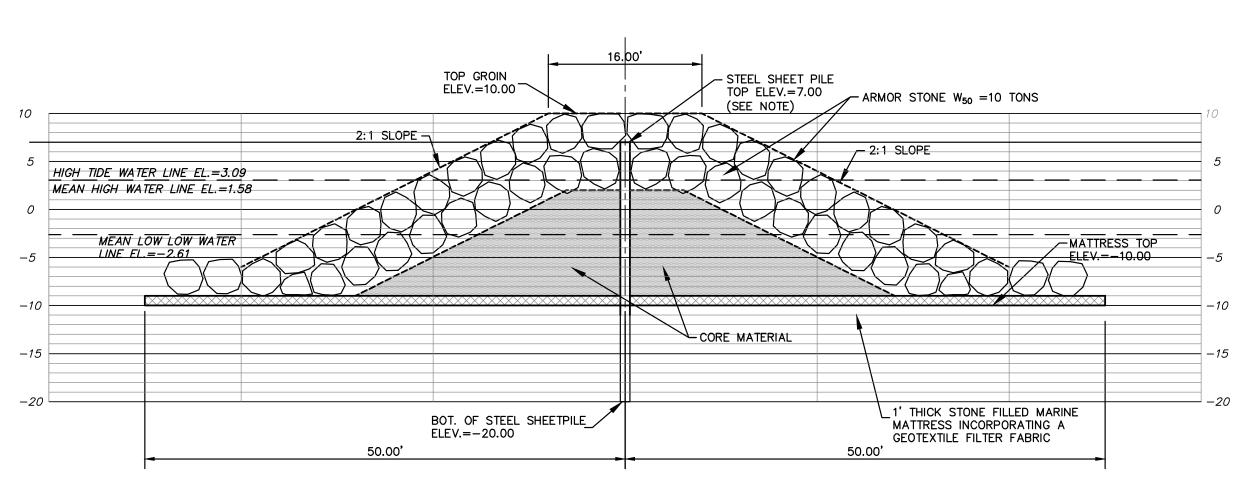
443 Atlantic City Blvd.

Beachwood, NJ 08722

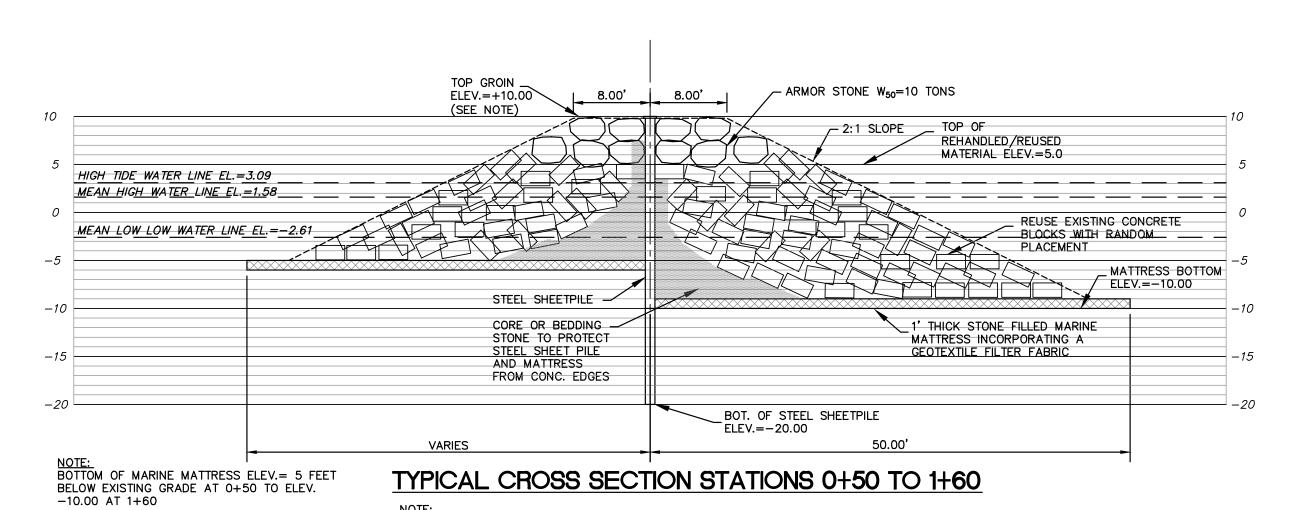
Tel. 732-244-1090 Fax 732-341-3412 STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENGINEERING & CONSTRUCTION
DIVISION OF COASTAL ENGINEERING
HOLGATE TERMINAL GROIN
TOWNSHIP OF LONG BEACH, OCEAN COUNTY, NEW JERSEY
N.J.D.E.P. PROJECT NUMBER 4295-18

GROIN CROSS SECTION PLAN

DRAWN BY: JSM	APPROVALS			PROJECT	4295-18
	APPROVED BY	TITLE	DATE	NO.	4293-10
CHECKED BY: GK				SHEET 5 OF 6	
SCALE AS NOTED DATE: 05/30/2018				SHEET 3 OF 6	
				51110	T 06 00
				DWG. NO.	E-36-28



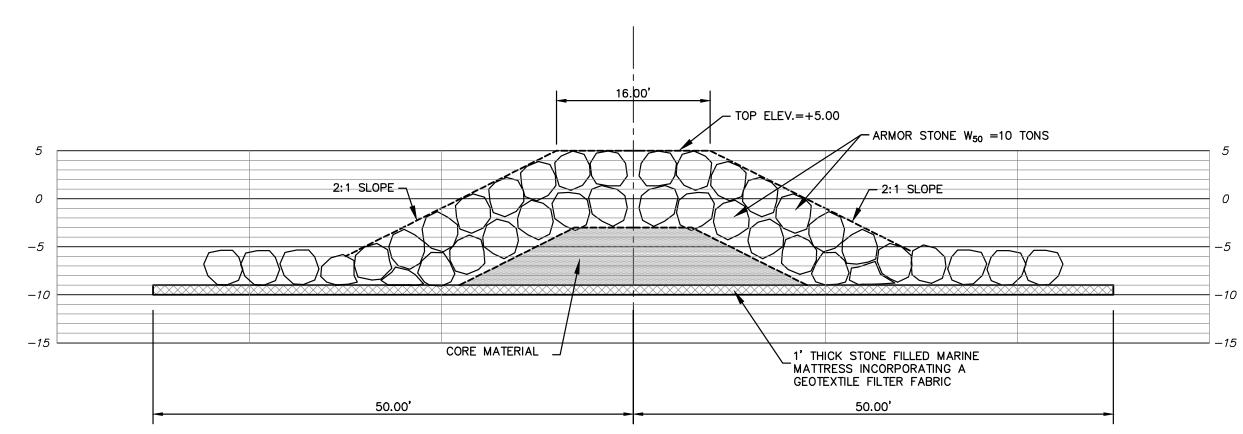
TYPICAL CROSS SECTION STATIONS 1+60 TO 2+50 NOTE: STEEL SHEET STEPS DOWN FROM ELEV. 10.00 TO ELEV. 7.00 AT STATION 1+60.



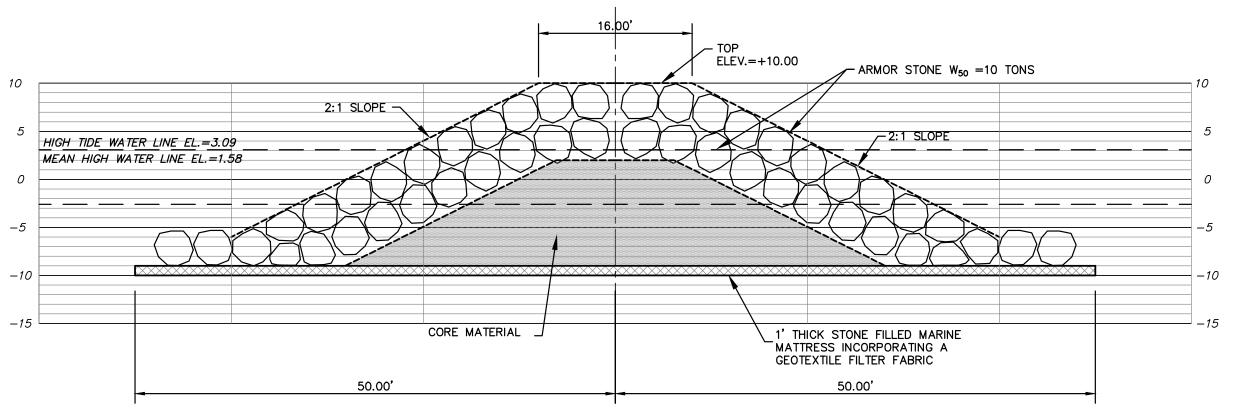
TOP GROIN ELEV.=+10.00 — ARMOR STONE W₅₀=10 TONS _ TOP OF REHANDLED/REUSED MATERIAL ELEV.=5.0 REUSE EXISTING CONCRETE
BLOCKS WITH RANDOM _______
PLACEMENT MEAN LOW LOW WATER LINE EL.=-2.61 STEEL SHEETPILE -✓ ELEV.=-10.00 CORE OR BEDDING — STONE TO PROTECT STEEL SHEET PILE AND MATTRESS FROM CONC. EDGES _ 1' THICK STONE FILLED MARINE MATTRESS INCORPORATING A GEOTEXTILE FILTER FABRIC _BOT. OF STEEL SHEETPILE ELEV.=-20.00

NOTE: STEEL SHEET STEPS DOWN FROM ELEV. 10.00 TO ELEV. 7.00 AT STATION 1+60.

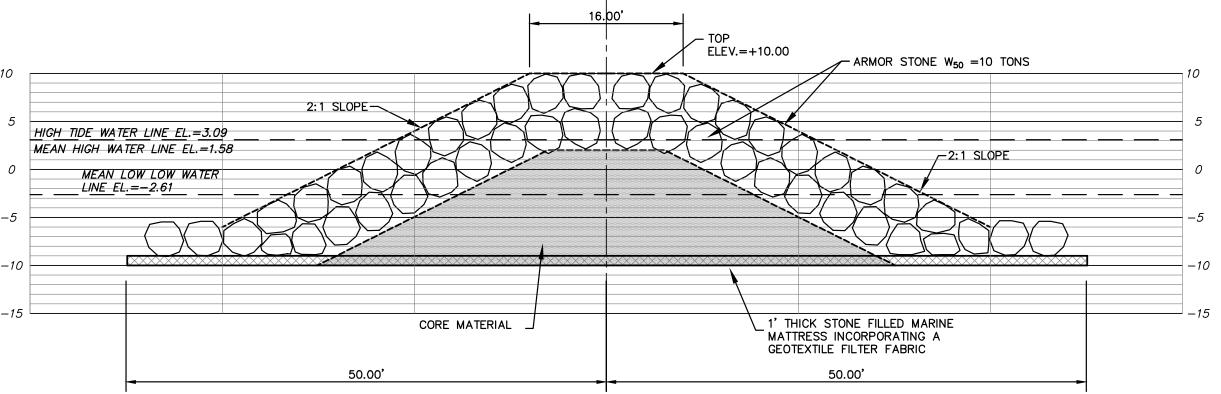
TYPICAL CROSS SECTION STATIONS 0-50 TO 0+50



TYPICAL CROSS SECTION STATIONS 3+00 TO 5+00



TYPICAL CROSS SECTION STATIONS 2+80 TO 3+00 (ELEVATION TRANSITION AREA)



TYPICAL CROSS SECTION STATIONS 2+50 TO 2+80



REVISION DESCRIPTION

& ASSOCIATES Authorization No. 24GA27965700 Engineers, Planners, Surveyors

443 Atlantic City Blvd.
Beachwood, NJ 08722
Tel. 732-244-1090
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CHE
SCA

PROFESSIONAL PLANNER

DRAWN CHK'D N.J. LIC. No. 03096

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION **ENGINEERING & CONSTRUCTION DIVISION OF COASTAL ENGINEERING HOLGATE TERMINAL GROIN** TOWNSHIP OF LONG BEACH, OCEAN COUNTY, NEW JERSEY N.J.D.E.P. PROJECT NUMBER 4295-18

TYPICAL CROSS SECTION AND MISCELLANEOUS DETAILS							
DRAWN BY: JSM	APPROVALS			PROJECT	4295-18		
	APPROVED BY	TITLE	DATE	NO.	4295-10		

JRAWN BY: JSM	ALL INO VALS			PROJECT	4295-18
	APPROVED BY	TITLE	DATE	NO.	4295-10
CHECKED BY: GK				SHEET 6 OF 6	
SCALE: 1" = 10'				SHEEL	01 0
DATE: 5/30/18				DWC NO	E-36-28
				DWG. NO.	L 00-20

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1 inch = 10 ft. VERT.