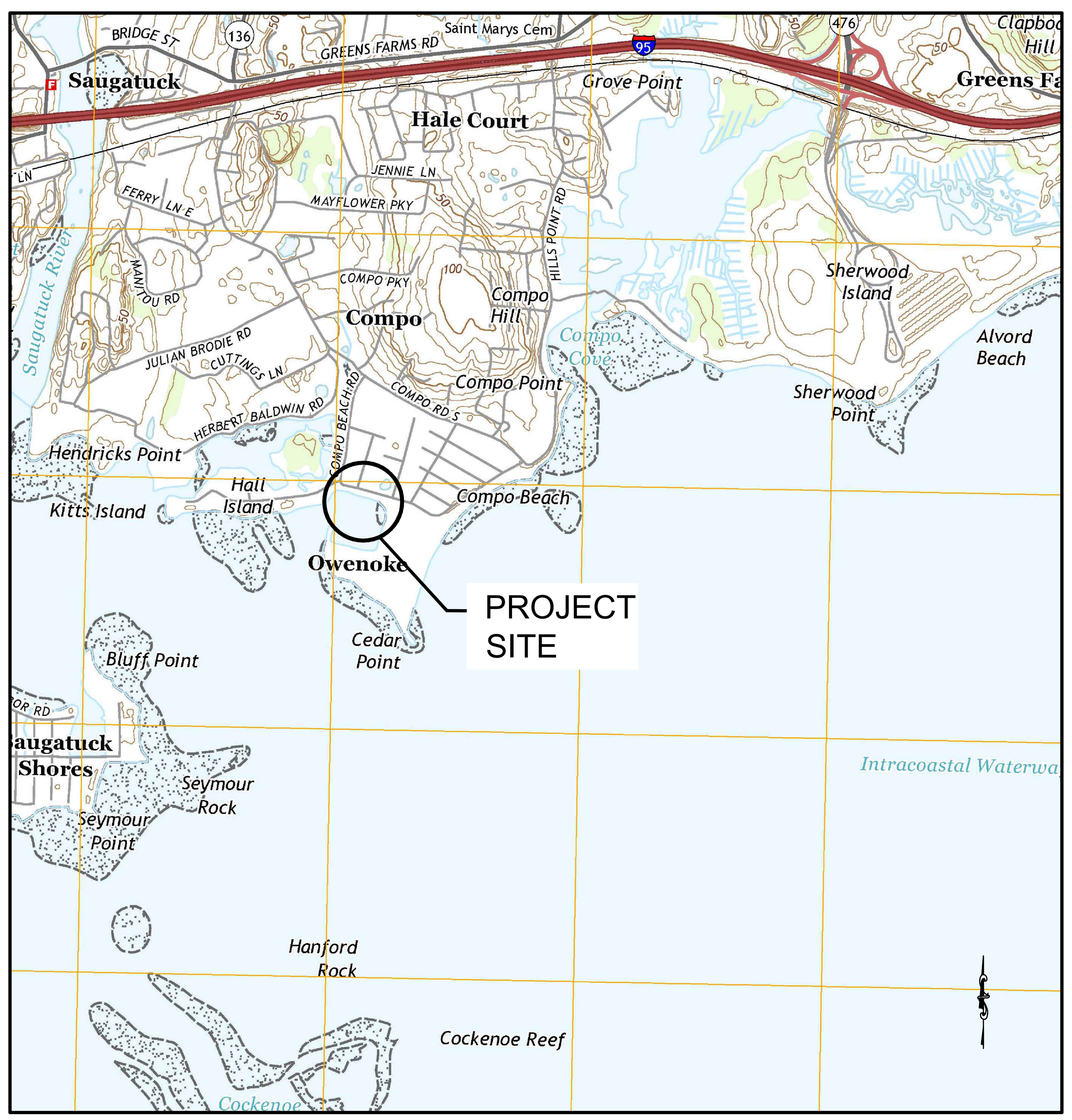
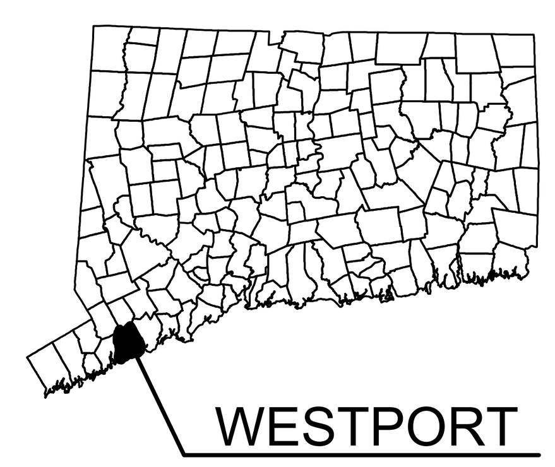
NED DIMES MARINA REVETMENT
TOWN OF WESTPORT
60 COMPO BEACH RD
WESTPORT, CT 06880

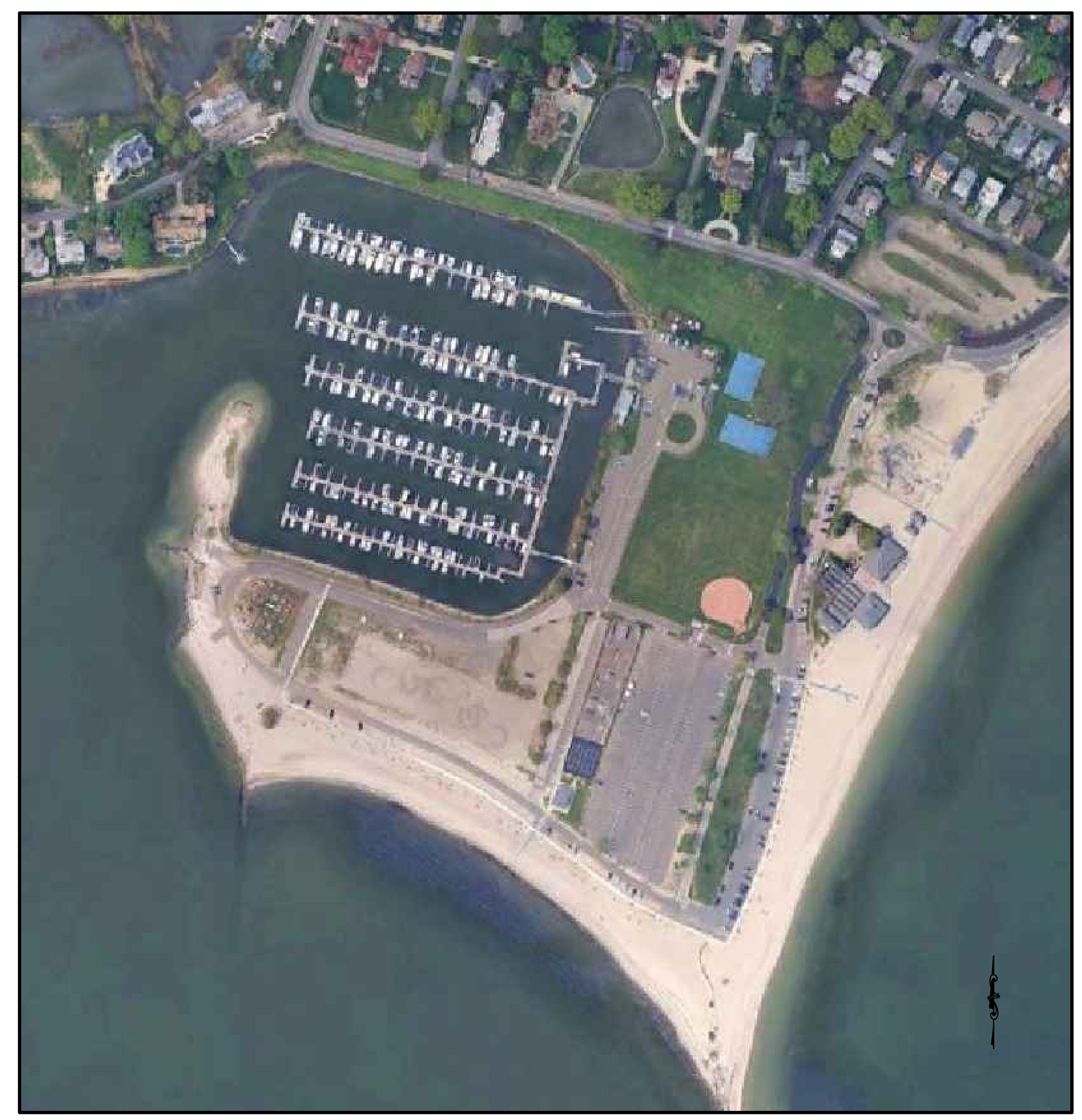
9/19/2025

LIST OF DRAWINGS



VICINITY MAP





AERIAL PHOTO

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

RACE COASTAL ENGINEERING
611 Access Road
Stratford, CT 06615
Tel.: 203-377-0663
racecoastal.com

Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

Drawing
TITLE SHEET,
DRAWING LIST &
VICINITY MAP

STATE OF CONNECTICUT
MATTHEW JH SHULTS
NO. PEN.0037369
LICENSED
PROFESSIONAL ENGINEER
[illegible]
NOT VALID WITHOUT ENGINEER'S SEAL

Designed	Drawn	Checked
MJHS	MJHS	MRR
Job No. 2025021	Date 9/19/2025	Drawing No. 1 of 7

PROJECT NOTES

DESCRIPTION OF WORK:

1. THE WORK COVERED UNDER THESE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS, PROJECT NOTES, AND ALL AMENDMENTS, CONSISTS OF PROVIDING ALL PLANT, LABOR, SUPERVISION, EQUIPMENT APPLIANCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH AT LEAST, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING ITEMS:
   - DEMOLITION OF EXISTING SEAWALL
   - FURNISH AND INSTALL NEW REVETMENT
   - MODIFY EXISTING STORMWATER OUTFALLS
   - COORDINATE WORK WITH OWNER AND PROTECT UTILITIES
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES REQUIRED TO COMPLETE ALL ASPECTS OF THE WORK NEEDED FOR A COMPLETE AND PROPER INSTALLATION, ALL IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DESIGN BASIS:

1. STRUCTURE DESIGNED IN ACCORDANCE WITH THE CT STATE BUILDING CODE.
2. FOUR (4) LAND BORINGS WERE PERFORMED. REFER TO BORING LOG FOR SOIL DATA ENCOUNTERED.
3. THE STRUCTURE WAS DESIGNED FOR THE FOLLOWING SERVICE LOADS:

   A. DEAD LOAD: SELF-WEIGHT OF ELEMENTS
   B. LIVE LOADS:
      B.1. COMMON AREAS: 100 PSF

   C. WIND/WAVE LOADS: 100-YR FREQUENCY TIDAL FLOOD ELEVATIONS AS DEFINED BY FEMA WITH 100-YR FREQUENCY WIND GENERATED WAVE LOADING ADJUSTED FOR LOCAL BATHYMETRY AS FOLLOWS:
      C.1. BASED ON:
      SIGNIFICANT WAVE HEIGHT: 4.10 FEET
      SIGNIFICANT WAVE PERIOD: 2.87 SECONDS

GENERAL REQUIREMENTS:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
2. PROPERTY LINES AND UPLAND STRUCTURES TAKEN FROM A DRAWING TITLED "PROPERTY & TOPOGRAPHIC SURVEY DEPICTING 60 COMPO BEACH ROAD." DRAWING PREPARED FOR TOWN OF WESTPORT, PREPARED BY DIMARZO & BERECZKY, DATED FEBRUARY 1, 2017.
3. ADDITIONAL SITE INFORMATION OBTAINED BY RACE COASTAL ENGINEERING ON APRIL 18, 2025 AND APRIL 21, 2025 AND CAN ONLY REPRESENT CONDITIONS AT THE TIME OF THE SURVEY.
4. WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK.
5. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT REGULATORY PERMITS. THE CONTRACTOR SHALL COMPLY TO ALL CONDITIONS OF THOSE PERMITS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY PERMITS FOR THIS PROJECT MAY CONTAIN ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDE THE DRAWING NOTES. THE CONTRACTOR IS FURTHER ADVISED THAT IN THE CASE OF ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS FOUND BEFORE CONSTRUCTION, THE FINAL DECISION AS TO WHAT INFORMATION TAKES PRECEDENCE WILL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.
6. THE CONTRACTOR SHALL USE THESE DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, M/E/P, POOL, AND OTHER DISCIPLINES AS REQUIRED TO COMPLETE THE WORK.
7. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND FABRICATION OR ORDERING OF ANY CONSTRUCTION MATERIALS.
8. SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
9. DAMAGE TO ANY PROPERTY, PRIVATE OR OF PUBLIC TRUST, OCCURRING DURING THE CONSTRUCTION BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER. COMPENSATION TO THE CONTRACTOR WILL NOT BE CONSIDERED.
10. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS.
11. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
12. THE CONTRACTOR SHALL USE EQUIPMENT ADEQUATE IN SIZE, CAPACITY, AND NUMBERS, AND MAINTAINED TO THE REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS TO ACCOMPLISH THE WORK.
13. THE CONTRACTOR SHALL PROTECT ALL WETLANDS AND COASTAL RESOURCES FROM INTRUSION BY TURBID WATERS, CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, OR PERSONNEL DURING ALL WORK ACTIVITIES.
14. THE CONTRACTOR SHALL OBTAIN AND INCLUDE IN ITS FEE, THE COST FOR NECESSARY PERMITS, LICENSES, CERTIFICATES OF INSPECTION, AND LEGAL EXPENSES IN CONNECTION WITH THE WORK OF THIS CONTRACT. FAILURE TO CONSIDER ANY CONDITION OF THE REGULATORY PERMITS AS A PART OF THE BID SHALL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO APPLY THOSE CONDITIONS TO THEIR WORK AND SHALL BE INCLUDED IN THE CONTRACT SUM.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT FROM DAMAGE ALL UTILITIES, UTILITY STRUCTURES, FUEL LINES & TANKS OR ANY UNKNOWN UTILITIES OR STRUCTURES PRIOR TO ANY WORK.
16. LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK THAT, UPON COMPLETION, ARE NOT A PART OF THE WORK, SHALL BE FURNISHED, INSTALLED, AND SUBSEQUENTLY REMOVED FROM THE SITE BY THE CONTRACTOR.
17. TEMPORARY WORK SHALL BE SUBJECT TO THE REQUIREMENTS OF THE STATE AND APPLICABLE LOCAL BUILDING CODES.
18. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE LANDSCAPING, INCLUDING BUT NOT LIMITED TO LAWN, TREES, PLANTINGS, TOPSOIL, GRASS, SIGNS, PILE CLUSTERS, ETC. DISTURBED BY THE CONTRACTOR DURING THE COURSE OF THE PROJECT.
19. THE CONTRACTOR SHALL KEEP A CLEAN AND TIDY SITE. AT THE COMPLETION OF EVERY WORK DAY ANY DEBRIS ON THE SITE SHALL BE PICKED UP AND DISPOSED OF IN A PROPER MANNER.

PROJECT LAYOUT & CONTROLS:

1. THE CONTRACTOR SHALL HAVE A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF CONNECTICUT, TO LAYOUT THE PROPOSED STRUCTURE. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN "AS-BUILT" DRAWING OF THE WORK CONFORMING TO A-2 AND T-2 STANDARDS FOLLOWING THE COMPLETION OF THE WORK AT THE SITE. THE COST FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACT SUM FOR THE WORK.
2. ANY STRUCTURES NOT CONSTRUCTED IN THE POSITIONS DEPICTED ON THE PROJECT PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION:

1. SELECTIVE DEMOLITION AND DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL PERMIT AND BUILDING CODE REQUIREMENTS.
2. THE CONTRACTOR SHALL TAKE REASONABLE CARE IN REMOVING ELEMENTS SELECTED TO BE DEMOLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAMAGE OR DESTRUCTION BY THE CONTRACTOR TO EXISTING ELEMENTS DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED IN-KIND AT THE DISCRETION OF THE OWNER AT NO ADDITIONAL COST.
3. PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION, THE CONTRACTOR SHALL SUBMIT A DISPOSAL PLAN FOR ITEMS TO BE DEMOLISHED. DEMOLITION MATERIAL DESIGNATED BY THE OWNER TO BE REMOVED FROM THE SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE DEBRIS DISPOSAL PLAN SHALL ACKNOWLEDGE THIS OWNERSHIP AND SHALL IDENTIFY THE MEANS AND METHODS AND FINAL DISPOSITION FOR DISPOSAL MATERIALS.
4. COMPLETELY REMOVE ITEMS DESIGNATED LEAVING SURFACES CLEAN, SOUND, AND READY TO RECEIVE NEW MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

CAST-IN-PLACE CONCRETE:

1. CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
2. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 - LATEST EDITION, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
3. DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM WITH ACI-318 AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING, REINFORCED CONCRETE STRUCTURES."
4. READY MIX PLANT EQUIPMENT AND FACILITIES SHALL CONFORM TO THE "CHECK LIST FOR CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES" OF THE NRMCA.
5. SUBMIT CONCRETE MIX DESIGN, WITH KNOWN TEST RESULTS, TO THE ENGINEER FOR REVIEW. THE CONCRETE MIX DESIGN SUBMITTAL SHALL CONSIST OF AT LEAST THE FOLLOWING:

   A. TYPE OF CEMENT.

   B. DRY WEIGHT OF CEMENT.

   C. SATURATED SURFACE-DRY WEIGHTS OF FINE AND COARSE AGGREGATES.

   D. SPECIFIC GRAVITY OF FINE AND COARSE AGGREGATES.

   E. QUANTITIES, TYPE, NAME AND PRODUCER OF ADMIXTURES, AS APPLICABLE.

   F. TOTAL WEIGHT OF WATER, INCLUDING THE WATER WHICH IS ABSORBED BY AND ON THE SURFACE OF THE AGGREGATES.

   G. WATER TO CEMENT RATIO.

   H. SLUMP: MAXIMUM SLUMP, TAKEN AT THE TRUCK, WILL BE DETERMINED BASED ON THE PUMP HOSE LENGTH. THE MIX DESIGNS SHALL INCLUDE THE ANTICIPATED LOSS OF SLUMP PER 100 FOOT LENGTH OF SPECIFIED HOSE SIZE.

   I. STRENGTH TEST DATA OF THE PROPOSED MIX DESIGN AS SPECIFIED HEREIN.

6. SUBMIT CONCRETE BATCH TICKETS FOR EACH TRUCK DELIVERED TO SITE. EACH TICKET SHALL NOTE AT LEAST THE FOLLOWING DATA: DESIGN MIX STRENGTH; BATCH PROPORTIONS INCLUDING ACTUAL WATER AND AGGREGATE MOISTURE CONTENTS; DATE AND BATCH TIME; ARRIVAL TIME AT SITE; DISCHARGE TIME; CONCRETE VOLUME; AND ANY CHANGE TO CONCRETE MADE AT THE SITE.
7. CONFORM TO THE RECOMMENDATIONS OF ACI 304 - LATEST EDITION, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE."
8. CONCRETE SHALL CONSIST OF THE FOLLOWING MATERIALS:

   A. BLENDED HYDRAULIC CEMENT: TYPE IL CONFORMING TO ASTM C 595, "STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS."

   B. COARSE AND FINE AGGREGATE SHALL BE NORMAL WEIGHT AND UNIFORMLY GRADED AND CLEAN CONFORMING TO ASTM C33, "STANDARD SPECIFICATION FOR CONCRETE AGGREGATES." DO NOT USE AGGREGATE KNOWN TO CAUSE EXCESSIVE SHRINKAGE.

   C. COARSE AGGREGATE SHALL BE CRUSHED ROCK OR WASHED GRAVEL WITH A MAXIMUM SIZE OF 3/4".

   D. FINE AGGREGATE SHALL BE NATURAL WASHED SAND OF HARD AND DURABLE PARTICLES VARYING FROM FINE TO PARTICLES PASSING A 3/8" SCREEN, OF WHICH AT LEAST 12% SHALL PASS A 50-MESH SCREEN.

   E. WATER SHALL BE CLEAN AND POTABLE.

   F. CONCRETE SHALL HAVE DCI-S CORROSION INHIBITOR ADMIXTURE, AS MANUFACTURED BY W.R. GRACE, AT A RATE OF 4 GALLONS PER CUBIC YARD OF CONCRETE.

   G. CRYSTALLINE WATERPROOFING ADMIXTURE SHALL CONFORM TO ASTM C494 "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE." CRYSTALLINE WATERPROOFING AGENT SHALL BE KRYSTOL INTERNAL MEMBRANE (KIM) AS MANUFACTURED BY KRYTON INTERNATIONAL INC. OR EQUIVALENT ACCEPTED BY THE ENGINEER. BATCHING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

   H. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260, "STANDARD SPECIFICATION FOR AIR ENTRAINING ADMIXTURE FOR CONCRETE." THE AIR ENTRAINING AGENT SHALL BE A NON-TOXIC CONCENTRATED SOLUTION OF NEUTRALIZED VINSOL RESIN, SUCH AS "DARAVAIR" AS MANUFACTURED BY W.R. GRACE COMPANY OR EQUIVALENT ACCEPTED BY THE ENGINEER.

   I. WATER REDUCING ADMIXTURE SHALL CONFORM TO ASTM C494 "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE." WATER REDUCING AGENT SHALL BE OF TYPE A, B, C, D, E, F, OR G (AS NOTED IN CONCRETE MIX DESIGN) SUCH AS DARACEM-100" OR WRDA-19" AS MANUFACTURED BY W.R. GRACE COMPANY OR EQUIVALENT ACCEPTED BY THE ENGINEER.

   J. CALCIUM CHLORIDE SHALL NOT BE USED.

9. CURING MATERIALS SHALL CONFORM TO ASTM C309, "STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE", WET BURLAP, OR PLASTIC MEMBRANE.
10. CONCRETE SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.40.
11. CONCRETE SHALL BE PROPORTIONED TO HAVE A SLUMP OF 4 INCHES, ± 1.5 INCHES, AT THE DISCHARGE END OF THE PUMP HOSE. USE WATER REDUCING AGENT AS REQUIRED TO ACHIEVE DESIRED SLUMP RANGE. ADDITION OF WATER AT SITE WILL NOT BE PERMITTED.
12. CONCRETE SHALL CONTAIN 6% ENTRAINED AIR +/- 1.5%.
13. DESIGN, ERECT, SUPPORT, BRACE, AND MAINTAIN FORMWORK SO IT WILL SAFELY SUPPORT VERTICAL AND LATERAL LOADS WHICH MIGHT BE APPLIED UNTIL SUCH LOADS CAN BE SUPPORTED SAFELY BY THE CONCRETE STRUCTURE IN ACCORDANCE WITH ACI 347 - LATEST EDITION.
14. FORM COATING OR WATER SHALL BE APPLIED TO ALL FORMS. IF COATING IS USED, IT SHALL BE APPLIED PRIOR TO PLACEMENT OF REINFORCING STEEL.
15. SLEEVES, INSERTS, ANCHORS, AND EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK OR FOR ITS SUPPORT SHALL BE PLACED PRIOR TO CASTING CONCRETE. ALL EMBEDDED ITEMS SHALL BE POSITIONED ACCURATELY AND SUPPORTED AGAINST DISPLACEMENT
16. TRANSIT MIX THE CONCRETE IN ACCORDANCE WITH PROVISIONS OF ASTM C94 - LATEST EDITION.
17. DO NOT USE CONCRETE AFTER 90 MINUTES FROM TIME OF INTRODUCTION OF WATER TO THE MIX.
18. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
19. REMOVE FOREIGN MATTER ACCUMULATED IN THE FORMS.
20. RIGIDLY CLOSE OPENINGS LEFT IN THE FORMWORK.
21. WET WOOD FORMS IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. WET WOOD FORMS SUFFICIENTLY TO TIGHTEN UP CRACKS. WET OTHER MATERIAL SUFFICIENTLY TO MAINTAIN WORKABILITY OF THE CONCRETE.
22. USE ONLY CLEAN TOOLS.
23. PERFORM CONCRETE PLACING AT SUCH A RATE THAT CONCRETE WHICH IS BEING INTEGRATED WITH FRESH CONCRETE IS STILL PLASTIC.
24. DEPOSIT CONCRETE AS NEARLY AS PRACTICABLE IN ITS FINAL LOCATION SO AS TO AVOID SEPARATION DUE TO REHANDLING AND FLOWING.
25. DO NOT USE CONCRETE WHICH BECOMES NON-PLASTIC AND UNWORKABLE, OR DOES NOT MEET REQUIRED QUALITY CONTROL LIMITS, OR HAS BEEN CONTAMINATED BY FOREIGN MATERIALS.
26. REMOVE REJECTED AND EXCESS CONCRETE FROM THE JOB SITE.
27. FREE-FALL OF CONCRETE DURING PLACEMENT GREATER THAN EIGHT FEET IS PROHIBITED. THE CONTRACTOR SHALL PLACE CONCRETE WITH A TREMIE TUBE FOR DROPS GREATER THAN EIGHT FEET.
28. DEPOSIT CONCRETE IN HORIZONTAL LAYERS NOT DEEPER THAN 24 INCHES, AND AVOID INCLINED CONSTRUCTION JOINTS.
29. REMOVE TEMPORARY SPREADERS IN FORMS WHEN CONCRETE HAS REACHED THE ELEVATION OF THE SPREADERS.
30. CONSOLIDATE EACH LAYER OF CONCRETE IMMEDIATELY AFTER PLACING, BY USE OF INTERNAL CONCRETE VIBRATORS SUPPLEMENTED BY HAND SPADING, RODDING, OR TAMPING.
31. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INSIDE THE FORMS.
32. DO NOT USE HORIZONTAL CONSTRUCTION JOINTS, UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
33. BEGINNING IMMEDIATELY AFTER PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL DAMAGE AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVE CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR HYDRATION OF THE CEMENT AND HARDENING OF THE CONCRETE.
34. IF COLD-WEATHER CONCRETING IS ANTICIPATED, A PRE-CONSTRUCTION MEETING SHOULD BE HELD TO DEFINE HOW COLD WEATHER CONCRETING METHODS WILL BE USED. WHEN THE MEAN DAILY AMBIENT TEMPERATURE IS AT OR BELOW 40 DEGREES F OR 45 DEGREES F AND FALLING, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF ACI 306.1 - LATEST EDITION, "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING":

   A. SET UP PROPER ENCLOSURE AND HEAT TO 50 DEGREES F FOR AT LEAST TWO (2) HOURS BEFORE STARTING ANY POUR. SET UP INDIVIDUAL THERMOMETERS WITHIN ENCLOSURE TO MONITOR AMBIENT TEMPERATURES NEAR THE FACE OF FRESH CONCRETE. THERMOMETERS SHALL BE PLACED AT A MAXIMUM OF 50-FOOT CENTERS, AT MAJOR CORNERS OR RETURNS, AND AT ENDS OF CONCRETE SECTIONS. MONITOR AND RECORD TEMPERATURES IN A LOG AT EARLY MORNING, NOON, AND EARLY EVENING.

   B. USE A WATER-REDUCING ADMIXTURE WITH AN ACCELERATED SET, BUT DO NOT USE OR RELY UPON ANY MATERIAL AS AN ANTI-FREEZE. USE OF CALCIUM CHLORIDE IS PROHIBITED.

   C. USE VENTED HEATERS WITH BLOWERS SO PLACED THAT THEY DO NOT PRODUCE LOCALIZED HOT SPOTS WHICH MAY DRY OUT THE CONCRETE. EXPOSURE TO EXHAUST GASES FROM COMBUSTION HEATERS IS PROHIBITED FOR THE FIRST 24 HOURS OF THE CURING PERIOD.

   D. MAINTAIN THE TEMPERATURE OF THE FORMWORK AT NOT LESS THAN 50 DEGREES F BUT NOT GREATER THAN 70 DEGREES F FOR 48 HOURS AFTER COMPLETION OF POUR; FORMWORK MAY BE STRIPPED AFTER 72 HOURS AFTER COMPLETION OF POUR. AFTER 48 HOURS OF MAINTAINING AT LEAST 50 DEGREES F, THE TEMPERATURE MAY BE ALLOWED TO DROP GRADUALLY AND SHALL BE KEPT ABOVE 32 DEGREES F FOR A PERIOD OF SEVEN (7) DAYS AFTER COMPLETION OF POUR. PROTECTION DURING THIS PERIOD MAY BE PROVIDED BY EXISTING ENCLOSURE OR BY MEANS INDICATED IN NOTE 5 BELOW.

   E. PROTECTION MAY BE PROVIDED BY USE OF INSULATION METHODS. ADEQUATE INSULATION SHALL CONSIST OF AT LEAST ONE OF THE FOLLOWING:

      - 12" OF DRY EARTH; PROVIDE MOISTURE COVER IF OVER SLAB CONCRETE.
      - 4" OF HAY UNDER ADEQUATE MOISTURE COVER.
      - 1" OF INSULATION BLANKETS WITH VAPOR BARRIER SEAL.
      - OTHER INSULATING MATERIAL ACCEPTABLE TO THE ENGINEER.

      NOTE: EXTREME CONDITIONS OF TEMPERATURE OR WIND MAY REQUIRE MORE PROTECTION.

   F. CONCRETE SHALL NOT BE PLACED ON FROZEN GROUND.

   G. FROZEN CONCRETE SHALL BE REMOVED FROM THE JOB AND REPLACED AT A NO ADDITIONAL COST TO THE OWNER.

35. WHEN THE MEAN DAILY AMBIENT AND SUBSTRATE TEMPERATURE IS ABOVE 80 DEGREES F. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF ACI 305.1 - LATEST EDITION, STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING. CONCRETE SHALL BE PROTECTED FROM THERMAL DAMAGE. PROVISIONS FOR WINDBREAKS, SHADING, FOG SPRAYING, SPRINKLING, PONDING, OR WET COVERING WITH A LIGHT COLORED MATERIAL SHALL BE MADE IN ADVANCE OF PLACEMENT AND SUCH PROTECTIVE MEASURES SHALL BE TAKEN AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.

   A. NO CONCRETE SHALL BE PLACED WHEN THE AIR TEMPERATURE IS ABOVE 90 DEGREES F UNLESS THE AIR IS STILL AND RELATIVE HUMIDITY IS ABOVE 80%.

   B. SET UP PROPER WINDBREAKERS FOR CONCRETE SURFACES WHENEVER THE RELATIVE HUMIDITY IS LESS THAN 70% FOR SLIGHT AIR MOTION OR 80% FOR LIGHT BREEZES.

   C. PROVIDE SHADE FOR POURS OTHERWISE EXPOSED TO THE SUN.

   D. CONCRETE IS TO BE AT A TEMPERATURE OF 80 DEGREES F OR LESS WHEN PLACED. IF NECESSARY, THE BATCHING PLANT SHALL COOL AGGREGATES BY SPRAYING OR BY USING CHILLED WATER OR ICE. ALL SUCH WATER SHALL BE ACCOUNTED FOR AS PART OF THE MIXING WATER.

   E. USE AN ADMIXTURE WITH A RETARDED SET.

   F. FORMS SHALL BE THOROUGHLY WETTED AT LEAST DAILY AND MORE OFTEN WHEN THE RELATIVE HUMIDITY IS LOW.

   G. FOR SLABS, MAINTAIN THE REQUIRED MATERIALS FOR CURING ON HAND, SO THEY MAY BE PLACED IMMEDIATELY UPON FINISHING. ALL CONCRETE PLACED IN AMBIENT TEMPERATURES OVER 80 DEGREES F SHALL BE KEPT WET FOR A MINIMUM OF 24 HOURS. INTERMITTENT SPRAYING WILL NOT BE PERMITTED. NO WATER SHALL BE APPLIED BEFORE CONCRETE HAS ACQUIRED ITS INITIAL SET. WHEN THE CONCRETE TEMPERATURE OF ANY SLAB GOES ABOVE 100 DEGREES F, PLACE A LAYER OF SAND ON IT AND KEEP IT CONTINUOUSLY WET UNTIL THE TEMPERATURE IS BELOW 80 DEGREES F.

36. REMOVE ALL FINS, BLEMISHES, AND DEFECTIVE CONCRETE AREAS AND PATCH WHERE REQUIRED WITH REWORKED CEMENT MORTAR OF THE SAME PROPORTIONS AS THAT USED IN THE CONCRETE.
37. FORM TIE HOLES SHALL BE PLUGGED SOLID WITH REWORKED CEMENT MORTAR OF THE SAME PROPORTIONS AS THAT USED IN THE CONCRETE.
38. TESTS OF CONCRETE SHALL BE MADE BY AN INDEPENDENT TESTING AGENCY AT THE EXPENSE OF THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNERS TESTING LAB. TEST SPECIMENS SHALL BE TAKEN FOR EACH 50 CUBIC YARDS, OR PORTION THEREOF, AND EACH DAY'S POUR. ALL SPECIMENS SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C 39, ASTM C 31, AND ASTM C 172. CONCRETE SLUMP, AIR CONTENT, AND TEMPERATURE SHALL BE MEASURED FOR EACH BATCH IN ACCORDANCE WITH ASTM C 143 AND ASTM C 231.
39. EXPOSED SURFACES OF CONCRETE SHALL HAVE A BROOM FINISH.
40. ALL EXPOSED CORNERS SHALL HAVE A ¾" CHAMFER, UNLESS OTHERWISE NOTED, OR BE RELIEVED AS APPROVED BY THE ENGINEER.

REINFORCING STEEL:

1. DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM WITH ACI-318 AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING, REINFORCED CONCRETE STRUCTURES."
2. FABRICATE REINFORCEMENT TO THE REQUIRED SHAPES AND DIMENSIONS, WITHIN FABRICATION TOLERANCES STATED IN THE CRSI "MANUAL OF STANDARD PRACTICES."
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. REINFORCING STEEL REQUIRED TO BE WELDED SHALL BE ASTM A706 GRADE 60.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A767, "STANDARD SPECIFICATION FOR ZINC-COATED STEEL BARS FOR CONCRETE REINFORCEMENT". REINFORCING STEEL SHALL BE CLASS 1 COATING WEIGHT AND SHALL BE FABRICATED PRIOR TO GALVANIZING.
5. WELDABLE REINFORCING SHALL BE UNCOATED, PLAIN BAR.
6. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMS, CONSTRUCTION, AND THE CONCRETE PLACEMENT OPERATIONS.
7. REINFORCING STEEL SHALL BE CONTINUOUS UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE CONTRACT DRAWINGS. PROVIDE DOWELS OR LAP SPLICES OF THE APPROPRIATE CLASS TO MAINTAIN CONTINUITY. UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS LAP BARS AS PER TABLE BELOW. DOWELS OR SPLICES SHALL BE SHOWN ON THE SHOP DRAWINGS AND SHALL BE SUBJECT TO THE FIELD REVIEW OF THE ENGINEER. NO MORE THAN 60% OF THE TOTAL NUMBER OF BARS SHALL BE SPLICED AT ONE LOCATION.

MINIMUM SPLICE LENGTH (f'c = 5,000PSI)	
SIZE	BLACK BAR/ GALVANIZED BAR
#5	1'-10"

8. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE 3".
9. FORM TIES AND SPREADERS SHALL BE OF SUCH TYPE AS TO LEAVE NO METAL CLOSER THAN SPECIFIED FROM ANY EXPOSED CONCRETE SURFACE.
10. DO NOT USE REINFORCING STEEL HAVING ANY OF THE FOLLOWING DEFECTS:

    A. BAR LENGTHS, DEPTHS, OR BENDS EXCEEDING THE SPECIFIED FABRICATION TOLERANCE.

    B. BENDS OR KINKS NOT INDICATED ON THE DRAWINGS OR REQUIRED FOR THIS WORK.

    C. BARS WITH CROSS-SECTION REDUCED DUE ANY CAUSE.

12. CLEAN REINFORCEMENT AND REMOVE LOOSE DUST, EARTH, AND OTHER MATERIALS WHICH REDUCE BOND OR DESTROY BOND WITH CONCRETE.
13. SPACERS, CHAIRS, BOLSTERS, AND OTHER DEVICES NECESSARY FOR THE PROPER REINFORCING STEEL PLACEMENT SHALL BE HOT DIPPED GALVANIZED.
14. NO CLAY OR CONCRETE OR ANY OTHER MATERIAL OTHER THAN APPROVED CHAIRS SHALL BE USED. ONE CHAIR SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
15. ALL REINFORCING STEEL SHALL BE ADEQUATELY TIED WITH TIE WIRE AND SUPPORTED AS REQUIRED TO THE SPECIFIED CLEARANCE.

GROUT:

1. BEARING GROUT SHALL BE NON-SHRINK, NON-METALLIC, HIGH PERFORMANCE CEMENT BASED GROUT WITH A MINIMUM FLOWABLE WITH A 28 DAY COMPRESSION STRENGTH OF 6500 PSI CONFORMING TO ASTM C827 SUCH AS FIVE STAR GROUT AS MANUFACTURED BY FIVE STAR PRODUCTS, INC OR EQUIVALENT ACCEPTED BY THE ENGINEER.

GEOTEXTILE:

1. THE GEOTEXTILE FABRIC SHALL BE MANUFACTURED WITH FIBERS CONSISTING OF LONG-CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 95 PERCENT BY WEIGHT OF POLYOLEFINS OR POLYESTERS. THEY SHALL FORM A STABLE NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING SELVAGES.
2. WOVEN SLIT FILM GEOTEXTILE (I.E., GEOTEXTILE MADE FROM YARNS OF A FLAT, TAPE-LIKE CHARACTER) SHALL NOT BE ALLOWED.
3. GEOTEXTILE SHALL MEET OR EXCEED THE FOLLOWING:

TENSILE STRENGTH	ASTM D-4632	375X375 LBS
ELONGATIO AT BREAK	ASTM D-4632	15X8%
CBR PUNCTURE	ASTM D-6241	1,200 LBS
TRAPEZOIDAL TEAR	ASTM D-4533	120X120 LBS
WATER FLOW RATE	ASTM D-4491	15 G/MIN/SF
APPARENT OPENING SIZE	ASTM D-4751	50 US SIEVE
UV RESISTANCE @ 500 HRS	ASTM D-4355	70%

4. FABRIC WITHIN REVETMENT SHALL BE BACK-WRAPPED INTO SLOPE MIN 3' AT TOP AND WRAPPED UNDER TOE STONE AT TOE.
5. FABRIC SHALL HAVE A MINIMUM OVERLAP FOR ENCLOSURES OF 3'.
6. CONTRACTOR SHALL HAVE THE PROPER EQUIPMENT TO DELIVER, UNLOAD, AND INSTALL THE FILTER FABRIC.
7. FABRIC SHALL BE DELIVERED IN ROLLS AS SUPPLIED BY THE MANUFACTURER, AND PROTECTED FROM DAMAGE DURING HANDLING.
8. FABRIC ROLLS SHALL BE STORED OFF THE GROUND IN WEATHER-TIGHT STORAGE, AND PROTECTED TO ASSURE NO DAMAGE TO THE MATERIALS.

CLEARING & GRUBBING:

1. UNLESS OTHERWISE INDICATED THE CONTRACTOR SHALL CUT OR REMOVE ALL BRUSH, SAPLINGS, VINES, LOGS, DEBRIS, ETC. AS REQUIRED TO COMPLETE THE WORK WITHIN THE PROJECT AREA AS SPECIFIED WITHIN THESE CONTRACT DOCUMENTS.
2. UNLESS OTHERWISE INDICATED WITHIN THESE CONTRACT DOCUMENTS THE CONTRACTOR SHALL COMPLETELY REMOVE ALL STUMPS AND ROOTS TO A DEPTH OF 18-INCHES.
3. ANY DEPRESSIONS REMAINING FROM THE REMOVAL OF STUMPS SHALL BE FILLED WITH GRAVEL BORROW.
4. ALL MATERIAL COLLECTED IN THE COURSE OF CLEARING AND GRUBBING, WHICH IS NOT TO REMAIN, SHALL BE DISPOSED IN A PROPER MANNER AWAY FROM THE SITE.

EXCAVATION:

1. CONTRACTOR SHALL EXCAVATE EVERY TYPE OF MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE WORK TO THE LINES, GRADES AND ELEVATIONS INDICATED HEREIN.
2. UNAUTHORIZED EXCAVATION CONSISTS OF REMOVAL OF MATERIALS BEYOND INDICATED SUBGRADE ELEVATIONS OR DIMENSION WITHOUT SPECIFIC INSTRUCTION FROM THE ENGINEER.
3. ALL EXCAVATIONS SHALL BE PROTECTED WITH SEDIMENTATION AND EROSION CONTROL STRUCTURES AS IDENTIFIED HEREIN.
4. UNSATISFACTORY MATERIAL INCLUDING HIGH AMOUNTS OF SILT, CLAY, AND OR ORGANICS SHALL BE REMOVE FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED FACILITY OR MODIFIED TO MEET THE BACKFILL SPECIFICATIONS.
5. SATISFACTORY MATERIAL EXCAVATED SHALL BE STOCKPILED AND REUSED AS BACKFILL MATERIAL.
6. CONTRACTOR SHALL HAVE TWO STOCK PILE AREAS AS APPROPRIATE TO ACCOMMODATE THE TWO TYPES OF MATERIAL IF PRESENT.
7. EXCAVATION AND BACKFILL ACTIVITIES SHALL BE COMPLETED IN A MANNER AND SEQUENCE THAT WILL PROVIDE PROPER DRAINAGE AT ALL TIMES.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXCAVATING, REMOVING, TRANSPORTING AND PLACING THE EXCAVATED MATERIAL.
9. THE CONTRACTOR WILL BE RESPONSIBLE FOR MANAGING THE REMOVED MATERIAL.
10. CONTRACTOR SHALL REMOVE MATERIAL AS REQUIRED TO MEET LINES AND GRADES AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AS WELL AS SPECIFIED WITHIN THE REGULATORY PERMITS.
11. SLOPE EXCAVATIONS AS NECESSARY TO MAKE SLOPES SAFE IN ACCORDANCE WITH THE APPROPRIATE REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH SAFETY LAWS AND REGULATIONS FOR EXCAVATION.
12. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.
13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING QUALIFIED PERSONAL TO MEET THE REQUIREMENTS OF OSHA DEFINED 'COMPETENT PERSON'.
14. CONTRACTOR SHALL PROVIDED SHORING AND BRACING WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF THE MATERIALS BEING EXCAVATED.
15. CONTRACTOR SHALL PROVIDE MATERIALS FOR SHORING AND BRACING AS MAY BE NECESSARY FOR SAFETY OF PERSONNEL, PROTECTION OF WORK, AND COMPLIANCE WITH REQUIREMENTS OF GOVERNMENT AGENCIES HAVING JURISDICTION.
16. CONTRACTOR SHALL MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF THE TIME PERIOD EXCAVATIONS WILL BE OPEN.
17. THE CONTRACTOR SHALL CONSTRUCT SHORING AND BRACING AS EXCAVATION PROGRESSES.
18. CONTRACTOR SHALL PROTECT EXCAVATION BOTTOMS AGAINST FREEZING WHEN AMBIENT ATMOSPHERIC TEMPERATURE REMAINS LOWER THAN 35 DEGREES F FOR MORE THAN FOUR CONSECUTIVE HOURS OR IS ANTICIPATED TO BE LOWER THAN 35 DEGREES F DURING NON-WORKING HOURS SUCH AS OVERNIGHT, WEEKENDS, OR HOLIDAYS.
19. DISTURBED OR DAMAGED AREAS CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION.
20. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT SUM THE COST FOR DESIGN, PERMITS, INSTALLATION, MAINTENANCE, AND REMOVAL OF DEWATERING SYSTEM NECESSARY TO KEEP EXCAVATION DE-WATERED.

BACKFILL:

1. AS IDENTIFIED WITHIN THE DRAWINGS, PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO THE REQUIRED ELEVATIONS.
2. CONTRACTOR SHALL COMPLETE ALL BACKFILLING AND COMPACTION OPERATIONS IN A CAREFUL AND CONTROLLED MANNER, AVOIDING DAMAGING STRUCTURES.
3. BACKFILLING ACTIVITIES SHALL BE COMPLETED AS PROMPTLY AS PROGRESS OF WORK PERMITS BUT NOT UNTIL COMPLETION OF THE FOLLOWING;
   - ACCEPTANCE OF CONSTRUCTION BELOW FINISH GRADE,
   - PROOF ROLLING OR COMPACTING NATIVE MATERIAL,
   - INSPECTING, TESTING, APPROVING, AND RECORDING LOCATIONS OF UNDERGROUND STRUCTURES
   - REMOVAL OF TEMPORARY SHORING AND BRACING WITH BACKFILLING OF VOIDS WITH SATISFACTORY MATERIAL, AND
   - REMOVAL OF TRASH AND DEBRIS
4. BACKFILL SHALL CONSIST OF GRADING, PLASTICITY, RESISTANCE TO ABRASION, AND SOUNDNESS REQUIREMENTS FOR GRANULAR BACKFILL - IN ACCORDANCE WITH SUB-ARTICLE M.02.06, GRADING A OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 819:

SQUARE MESH SIEVES	PERCENT PASSING BY WEIGHT
PASS 3½"	100
PAS 1½"	55-100
PASS ¼"	25-60
PASS #10	15-45
PASS #40	5-25
PASS #100	0-10
PASS #200	0-5

5. BEDDING MATERIAL SHALL BE USED FOR PIPE BEDDING. MATERIAL SHALL BE SAND OR SANDY SOIL, ALL OF WHICH PASSES A ⅜ INCH SIEVE, AND NOT MORE THAN 10% PASSING A NO. 200 SIEVE.
6. BACKFILL MATERIAL PLACED BELOW WATER SHALL CONSIST OF MATERIAL MEETING NO. 3 OR NO. 4 COARSE AGGREGATE IN ACCORDANCE WITH SUB-ARTICLE M.01.02-2 OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 819. A GEOTEXTIE FILTER FABRIC SHALL BE PLACED ALL AROUND THE CRUSHED STONE.
7. MIXING OF EXCAVATED MATERIAL WITH FREE-DRAINING MATERIAL TO MEET THE REQUIRED GRADATION REQUIREMENTS IS ACCEPTABLE.
8. CONTRACTOR SHALL PLACE BACKFILL AND FILL MATERIAL IN LAYERS NOT TO EXCEED 8" IN LOOSE DEPTH.
9. CONTRACTOR SHALL NOT PLACE BACKFILL OR FILL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
10. BACKFILL AND FILL SHALL BE PLACED EVENLY ALONG STRUCTURES, TO REQUIRED ELEVATIONS.
11. CONTRACTOR SHALL TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING THE MATERIAL UNIFORMLY AROUND THE STRUCTURE TO APPROXIMATELY THE SAME ELEVATION IN EACH LIFT.
12. BEFORE COMPACTING, THE CONTRACTOR SHALL MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT.
13. CONTROL SOIL AND EARTHEN BACKFILL COMPACTION DURING CONSTRUCTION TO PROVIDE THE MINIMUM PERCENTAGE OF DENSITY SPECIFIED FOR EACH AREA AS DETERMINED ACCORDING TO ASTM D-1557.
14. BACKFILL MATERIAL'S DENSITY SHALL NOT BE BELOW 95% OF ITS DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ABOVE TEST IN ALL LAYERS.
15. OWNER WILL HIRE AN INDEPENDENT LABORATORY FOR IN PLACE SOIL DENSITY TESTING.
16. BACKFILL SHALL BE PLACED WITHIN 2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
17. THE DRY DENSITY OF EACH LAYER OF BACKFILL AFTER COMPACTION SHALL NOT BE LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T 180, METHOD D.
18. WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE-CONDITIONED BEFORE COMPACTING, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL TO PREVENT FREE WATER APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTING OPERATIONS.
19. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTING TO THE SPECIFIED DENSITY.
20. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTING MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DICING, HARROWING, OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE AS DETERMINED BY MOISTURE DENSITY RELATION TESTS REVIEWED BY THE ENGINEER.
21. EACH LIFT SHALL BE COMPACTED BY A MECHANICAL RAMMER OR VIBRATORY PLATE. CONTRACTOR SHALL SUBMIT COMPACTION EQUIPMENT TO ENGINEER AND OWNER FOR APPROVAL. ENGINEER MAY REDUCE LIFT THICKNESS BASED ON PROPOSED COMPACTION EQUIPMENT. CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF PASSES TO DEMONSTRATE THAT THE CRUSHED STONE IS NOT SETTLING UNDER CONTINUED COMPACTION EFFORT, AND IN NO CASE LESS THAN 4 PASSES.
22. CONTRACTOR SHALL PROTECT FROM DISTURBING OR DAMAGING WETLAND AREAS ADJACENT TO THE WORK SITE.
23. DISTURBED OR DAMAGED AREAS CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION.

EROSION & SEDIMENTATION CONTROLS:

1. CONTRACTOR SHALL PROTECT FROM DISTURBING OR DAMAGE WETLAND AREAS ADJACENT TO WORK AREA.
2. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM.
3. WHENEVER POSSIBLE, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", MAY 2002, ERRATA SEPTEMBER 2007.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
6. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS NECESSARY AND REQUIRED.
7. THE GENERAL CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
8. THE GENERAL CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE (100' MIN.) ON SITE FOR EMERGENCY PURPOSES.
9. ALL DISTURBED LAWN AREAS OUT OF THE MAJOR CONSTRUCTION AREA THAT ARE TO BE LEFT EXPOSED FOR MORE THAN 30 DAYS SHALL BE PROTECTED WITH A TEMPORARY VEGETATIVE COVER, SEED THESE AREAS WITH PERENNIAL RYE GRASS AT THE RATE OF 40 LBS, PER ACRE (1 LB PER 1,OOO SQ. FT.).
10. THE GENERAL CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THE RESPONSIBILITY INCLUDES SUPERVISING THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE CONSERVATION STAFF PERSON OF ANY TRANSFER OF THIS RESPONSIBILITY AND CONVEYING A COPY OF THE CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

REVETMENT:

1. STONE SHALL BE A DENSE, SOUND GNEISS, DIORITE, OR BASALT, CONFORMING TO THE GRADATION TABLES PROVIDED HEREIN. STONE SHALL BE FREE FROM LAMINATIONS, WEAK CLEAVAGES, UNDESIRABLE WEATHERING, OR BLASTING OR HANDLING FRACTURES. ADDITIONALLY, STONES SHALL BE FREE FROM FRACTURE ZONES WHICH SUBTEND MORE THAN ⅓ OF THE TOTAL CIRCUMFERENCE OF THE STONES ALONG THE PLACE OF FRACTURING. STONES SHALL BE CLEAN, FREE FROM EARTH, CLAY, REFUSE, AND COATINGS. BROKEN CONCRETE OR ROUNDED STONES ARE NOT ACCEPTABLE. ARMOR STONE SHALL BE OF SUCH SHAPE TO ASSURE INTERLOCKING WITH ADJACENT ARMOR STONES WITH A GREATEST DIMENSION OF EACH PIECE NOT LESS THAN 3 TIMES THE LAST DIMENSION.

FILTER LAYER GRADATION		
% LESS BY WEIGHT	WEIGHT (LB)	DIMENSION (IN)
0 (MIN.)	0.4	2
15	0.7	3
50	2.1	3½
85	7.1	5
100	11.9	6

ARMOR LAYER GRADATION		
% LESS BY WEIGHT	WEIGHT (LB)	DIMENSION (FT)
0 (MIN.)	150	1.0
15	450	1.5
50	1130	2.0
85	2210	2.4
100	4500	3.0

2. TOE STONES SHALL NOT BE SMALLER THAN 3' IN DIAMETER OR WEIGH LESS THAN 4,500 POUNDS.
3. THE TOE OF THE REVETMENT SHALL BE BURIED A MINIMUM OF 3' BELOW GRADE.
4. FILTER STONE SHALL CONSIST OF CRUSHED DURABLE STONE, SCREENED TO THE GRADATION TABLE PROVIDED HEREIN.
5. THE EXCAVATION DEPTH FOR THE REVETMENT SHALL BE SUCH THAT LINES AND GRADE AS DEPICTED IN THE CONTRACT DOCUMENTS ARE MET. CONTRACTOR SHALL ESTABLISH CONTROL POINTS PRIOR TO START OF WORK.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SHORELINE DURING CONSTRUCTION IN ORDER TO MINIMIZE THE CHANCE OF SHORELINE RECESSION SHOULD A STORM EVENT OCCUR DURING CONSTRUCTION. IN SUCH A CASE, THE CONTRACTOR SHALL TEMPORARILY PLACE STONE MATERIAL ALONG THE EXPOSED SHORELINE.
7. STONES SHOULD BE KEYED AND FITTED, MAXIMIZING CONTACT ON ALL SIDES. THREE POINTS OF CONTACT (MINIMUM) ARE REQUIRED BETWEEN A STONE AND OTHER STONES IN THE SAME LAYER, OR WITH OTHER STONES IN THE LAYER.
8. CONTRACTOR SHALL IDENTIFY QUARRY SOURCE FOR STONE MATERIALS AND PROVIDE INFORMATION FOR ENGINEER TO INSPECT STONE PRIOR TO SHIPMENT TO PROJECT SITE.
9. STONE SHALL BE PLACED IN A MANNER SUCH THAT THE LONGITUDINAL AXIS OF EACH STONE BE NORMAL TO THE AXES OF THE STRUCTURE, AND SLOPE DOWNWARD TOWARD THE CENTER OF THE STRUCTURE.
10. REVETMENT STONES SHALL BE PLACED IN LAYERS, INCLUDING THE FILTER STONE LAYER AND ARMOR STONE LAYER, TO THE FULL COURSE THICKNESS IN ONE OPERATION, IN SUCH A MANNER AS TO PRODUCE A REASONABLY WELL-GRADED MASS OF ROCK WITHOUT CAUSING DISPLACEMENT OF ANY UNDERLYING MATERIAL. THE FINISHED SURFACE OF THE ARMOR LAYER SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGER STONES. PLACING OF THE STONES BY METHODS LIKELY TO CAUSE SEGREGATION OF VARIOUS SIZES OF STONES WILL NOT BE PERMITTED.
11. STONE MATERIALS SHALL BE DELIVERED PER THE TERMS AND CONDITIONS OF THE APPLICABLE REGULATORY PERMITS, RULES AND REGULATIONS AND OF SUFFICIENT AND LEGAL SIZE TO TRAVEL ON LOCAL AND STATE ROADWAYS OR WITHIN LOCAL WATERWAYS.
12. CONTRACTOR SHALL PROVIDE HANDLING EQUIPMENT OF SUFFICIENT SIZE AND CAPACITY TO SAFELY AND EFFICIENTLY PLACE STONE AT THE REQUIRED LOCATIONS.
13. CONTRACTOR SHALL PLACE FILTER FABRIC AND STONE MATERIALS TO THE LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. EXISTING STONE MATERIALS, CURRENTLY POSITIONED ON THE EXISTING SLOPE MAY BE RE-USED IF DEEMED ACCEPTABLE BY THE ENGINEER. ANY MATERIAL NOT FIT FOR RE-USE MUST BE REMOVED AND LEGALLY DISPOSED OF OFF SITE AT THE EXPENSE OF THE CONTRACTOR PRIOR TO PLACEMENT OF ANY NEW MATERIALS ON THE SLOPE.
14. ARMOR STONE & FILTER STONE SHALL BE PLACED BY HAND OR MACHINE TO THE DESIGN LINES AND GRADES SPECIFIED IN THESE DRAWINGS. STONE SHALL BE PLACED IN A MANNER WHICH WILL PRODUCE A WELL-GRADED MASS OF ROCK WITH THE MINIMUM PRACTICAL PERCENTAGE OF VOIDS. THE TOP FINISH LAYER SHALL BE UNIFORMLY PLANAR. A TOLERANCE OF PLUS 6 INCHES AND MINUS 3 INCHES FROM THE SLOPE LINES AND GRADES SHOWN ON THE DRAWINGS WILL BE ALLOWED IN THE FINISHED SURFACE, EXCEPT THAT THE EXTREME OF THIS TOLERANCE SHALL NOT BE CONTINUOUS OVER AN AREA GREATER THAN 100 SQUARE FEET.
15. CONTRACTOR SHALL CONSTRUCTION A 30 FOOT MOCK-UP SECTION OF REVETMENT FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE FULL INSTALLATION.
16. STONES SHALL BE KEYED AND FITTED, MAXIMIZING CONTACT ON ALL SIDES. THREE POINTS OF CONTACT (MINIMUM) ARE REQUIRED BETWEEN A STONE AND OTHER STONES IN THE SAME ARMOR LAYER, OR WITH STONES IN THE UNDERLYING LAYER. LARGE ARMOUR STONES SHALL BE WELL DISTRIBUTED AND THE ENTIRE MASS OF ARMOUR STONES IN THEIR FINAL POSITION SHALL BE GRADED TO CONFORM TO THE ARMOUR STONE GRADATION SHOWN ON THE ATTACHED TABLE.

STATE OF CONNECTICUT
MATTHEW JH SHULTZ
No. PEN.0037369
LICENSED PROFESSIONAL ENGINEER
NOT VALID WITHOUT ENGINEER'S SEAL

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

RACE COASTAL ENGINEERING
611 Access Road
Stratford, CT 06615
Tel.: 203-377-0663
racecoastal.com

Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

Drawing
PROJECT NOTES

Designed	Drawn	Checked
MJHS	MJHS	MRR
Job No. 2025021	Date 9/19/2025	Drawing No. 2 of 7

RACE COASTAL ENGINEERING

SOIL TEST BORING LOG

Drilling Contractor: Hardiman	Project: TOW Compo Seawall	Client: Town of Westport	Boring #: LB-1 / Page No. 1 of 1
Drilling Foreman: Tony Scaife	RACE Project No.:	Observed by: M. Shuler	
Weather: 40's °F, Clear			
Date Start: 3/28/2025	Date End: 3/28/2025	Location: Compo Marina North Seawall	
Ground Elevation (ft): 6.6	Datum: NAVD 88	Northing: 600431.9	Easting: 832877.0

	Casing	Sampler
Type:	A	SS
Size (ID):	2.25"	2"
Hammer Wt.:	140 #	
Hammer Fall:	30"	
Rig Type:	Diedrich D-25	
Hammer Type:	Safety	

Water Depth & Ground Readings

Date	Time	Flood/Ebb	Water Depth
			Tidal

Date	Time	Casing Depth	Depth to Groundwater

Strata El.	Strata	Depth
6.5	TOPSOIL	1
3.0	COBBLES	4.5
1.0	ORGANIC SILT	6.5
-6.0	GRAVEL & SAND	12.5
-29.5	SAND	37
	E.O.B.	

Sample No.	Type	Pen.	Rec.	Start Depth	End Depth	0-6	6-12	12-18	18-24	Field Identification of Soil
1	SS	24"	11"	5'	7'	1	1	2	7	0"-10" Black SILT OLO 10"-11" Brown C-F GRAVEL AND C-F SAND, trace Silt
2	SS	24"	12"	10'	12'	10	16	19	15	Brown C-F GRAVEL AND SAND, trace Silt
3	SS	24"	12"	15'	17'	5	7	6	5	Brown F-C SAND, little f-c Gravel, trace Silt
4	SS	24"	10"	20'	22'	2	4	4	4	Brown F-C SAND, little f-c Gravel, trace Silt
5	SS	24"	9"	25'	27'	3	4	7	8	Brown F-C SAND, little f Gravel, trace Silt
6	SS	24"	12"	30'	32'	9	8	7	8	Brown F-C SAND, little f Gravel, trace Silt
7	SS	24"	18"	35'	37'	8	8	8	7	Brown F-C SAND, trace f Gravel, trace Silt.

Notes:
Boring taken east of navigation light power due to low-clearance overhead power line.

Description represents approximate boundary between material types, transitions will vary
Water levels will fluctuate based on time and conditions from those at the time of boring
Portions Used - Trace: 1-10%, Little: 10-20%, Some: 20-35%, And: 35-50%
A=Auger, C=Core, PS= Piston Sample, SS = Split Spoon, T = Thin Wall Tube, WOR / H = Weight of Rod / Hammer, Wt = Weight

RACE COASTAL ENGINEERING

SOIL TEST BORING LOG

Drilling Contractor: Hardiman	Project: TOW Compo Seawall	Client: Town of Westport	Boring #: LB-2 / Page No. 1 of 1
Drilling Foreman: Tony Scaife	RACE Project No.:	Observed by: M. Shuler	
Weather: 40's °F, Clear			
Date Start: 3/28/2025	Date End: 3/28/2025	Location: Compo Marina North Seawall	
Ground Elevation (ft): 7.3	Datum: NAVD 88	Northing: 600393.3	Easting: 833061.1

	Casing	Sampler
Type:	A	SS
Size (ID):	2.25"	2"
Hammer Wt.:	140 #	
Hammer Fall:	30"	
Rig Type:	Diedrich D-25	
Hammer Type:	Safety	

Water Depth & Ground Readings

Date	Time	Flood/Ebb	Water Depth
			Tidal

Date	Time	Casing Depth	Depth to Groundwater

Strata El.	Strata	Depth
6.5	TOPSOIL	1
3.0	COBBLES	4.5
2.0	ORGANIC SILT	5.5
-1.5	GRAVEL & SAND	8.0
-24.5	SAND	32
	E.O.B.	

Sample No.	Type	Pen.	Rec.	Start Depth	End Depth	0-6	6-12	12-18	18-24	Field Identification of Soil
1	SS	24"	8"	5'	7'	1	12	20	22	0"-4" Black SILT OLO 4"-8" Light Brown C-F GRAVEL AND C-F SAND, trace Silt
2	SS	24"	9"	10'	12'	12	9	8	9	Brown F-C SAND, little f Gravel, trace silt
3	SS	24"	12"	15'	17'	5	6	4	5	Brown F-C SAND, some f-c Gravel, trace Silt
4	SS	24"	14"	20'	22'	9	10	9	10	Brown F-C SAND, little Silt
5	SS	24"	22"	25'	27'	11	12	9	9	Brown F-C SAND, little f Gravel, trace Silt, very clean
6	SS	24"	18"	30'	32'	5	9	8	9	Brown F-C SAND

Notes:
At 13' depth, driller noted smoother drilling conditions indicating less gravel past 13'.

Description represents approximate boundary between material types, transitions will vary
Water levels will fluctuate based on time and conditions from those at the time of boring
Portions Used - Trace: 1-10%, Little: 10-20%, Some: 20-35%, And: 35-50%
A=Auger, C=Core, PS= Piston Sample, SS = Split Spoon, T = Thin Wall Tube, WOR / H = Weight of Rod / Hammer, Wt = Weight

RACE COASTAL ENGINEERING

SOIL TEST BORING LOG

Drilling Contractor: Hardiman	Project: TOW Compo Seawall	Client: Town of Westport	Boring #: LB-3 / Page No. 1 of 1
Drilling Foreman: Tony Scaife	RACE Project No.:	Observed by: M. Shuler	
Weather: 40's °F, Clear			
Date Start: 3/28/2025	Date End: 3/28/2025	Location: Compo Marina North Seawall	
Ground Elevation (ft): 7.6	Datum: NAVD 88	Northing: 600335.3	Easting: 833263.7

	Casing	Sampler
Type:	A	SS
Size (ID):	2.25"	2"
Hammer Wt.:	140 #	
Hammer Fall:	30"	
Rig Type:	Diedrich D-25	
Hammer Type:	Safety	

Water Depth & Ground Readings

Date	Time	Flood/Ebb	Water Depth
			Tidal

Date	Time	Casing Depth	Depth to Groundwater

Strata El.	Strata	Depth
6.5	TOPSOIL	1
3.0	COBBLES	4.5
-6.0	SAND & GRAVEL	13.5
-24.5	SAND	32
	E.O.B.	

Sample No.	Type	Pen.	Rec.	Start Depth	End Depth	0-6	6-12	12-18	18-24	Field Identification of Soil
1	SS	24"	12"	5'	7'	8	10	10	17	Brown F-C SAND AND GRAVEL, trace Silt
2	SS	24"	6"	10'	12'	10	10	7	8	Brown F-C SAND AND GRAVEL, trace Silt
3	SS	24"	14"	15'	17'	7	6	4	5	Brown F-C SAND, trace Silt
4	SS	24"	14"	20'	22'	8	11	11	10	Brown F SAND, trace Silt
5	SS	24"	18"	25'	27'	10	7	7	8	Brown F SAND, trace Silt
6	SS	24"	10"	30'	32'	13	8	9	9	Brown F SAND, little Silt

Notes:
Split spoon stuck in casing when extracting S-6.

Description represents approximate boundary between material types, transitions will vary
Water levels will fluctuate based on time and conditions from those at the time of boring
Portions Used - Trace: 1-10%, Little: 10-20%, Some: 20-35%, And: 35-50%
A=Auger, C=Core, PS= Piston Sample, SS = Split Spoon, T = Thin Wall Tube, WOR / H = Weight of Rod / Hammer, Wt = Weight

RACE COASTAL ENGINEERING

SOIL TEST BORING LOG

Drilling Contractor: Hardiman	Project: TOW Compo Seawall	Client: Town of Westport	Boring #: LB-4 / Page No. 1 of 1
Drilling Foreman: Tony Scaife	RACE Project No.:	Observed by: M. Shuler	
Weather: 40's °F, Overcast			
Date Start: 3/31/2025	Date End: 3/31/2025	Location: Compo Marina North Seawall	
Ground Elevation (ft): 5.8	Datum: NAVD 88	Northing: 600188.9	Easting: 833514.5

	Casing	Sampler
Type:	A	SS
Size (ID):	2.25"	2"
Hammer Wt.:	140 #	
Hammer Fall:	30"	
Rig Type:	Diedrich D-25	
Hammer Type:	Safety	

Water Depth & Ground Readings

Date	Time	Flood/Ebb	Water Depth
			Tidal

Date	Time	Casing Depth	Depth to Groundwater

Strata El.	Strata	Depth
6.5	TOPSOIL	1.0
5.5	COBBLES	2.0
4.0	SAND	3.5
-10.0	ORGANIC SILT	17.5
-16	SAND & GRAVEL	23.5
-24.5	SAND	32
	E.O.B.	

Sample No.	Type	Pen.	Rec.	Start Depth	End Depth	0-6	6-12	12-18	18-24	Field Identification of Soil
1	SS	24"	2"	5'	7'	2	1	1	2	Brown F-C SAND AND GRAVEL, trace Silt
2	SS	24"	12"	10'	12'	1	1	1	1	Brown F-C SAND AND GRAVEL, trace Silt
3	SS	24"	24"	15'	17'	1	1	2	2	Brown F-C SAND, trace Silt
4	SS	24"	12"	20'	22'	15	22	20	12	Brown F-C SAND & GRAVEL, trace Silt
5	SS	24"	14"	25'	27'	4	5	7	7	Light Brown F SAND, trace Silt
6	SS	24"	12"	30'	32'	7	10	12	11	Brown F SAND, little Silt

Notes:

Description represents approximate boundary between material types, transitions will vary
Water levels will fluctuate based on time and conditions from those at the time of boring
Portions Used - Trace: 1-10%, Little: 10-20%, Some: 20-35%, And: 35-50%
A=Auger, C=Core, PS= Piston Sample, SS = Split Spoon, T = Thin Wall Tube, WOR / H = Weight of Rod / Hammer, Wt = Weight

STATE OF CONNECTICUT
MATTHEW JH SHULER
No. PEN.0037369
LICENSED
PROFESSIONAL ENGINEER
[illegible]
NOT VALID WITHOUT ENGINEER'S SEAL

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

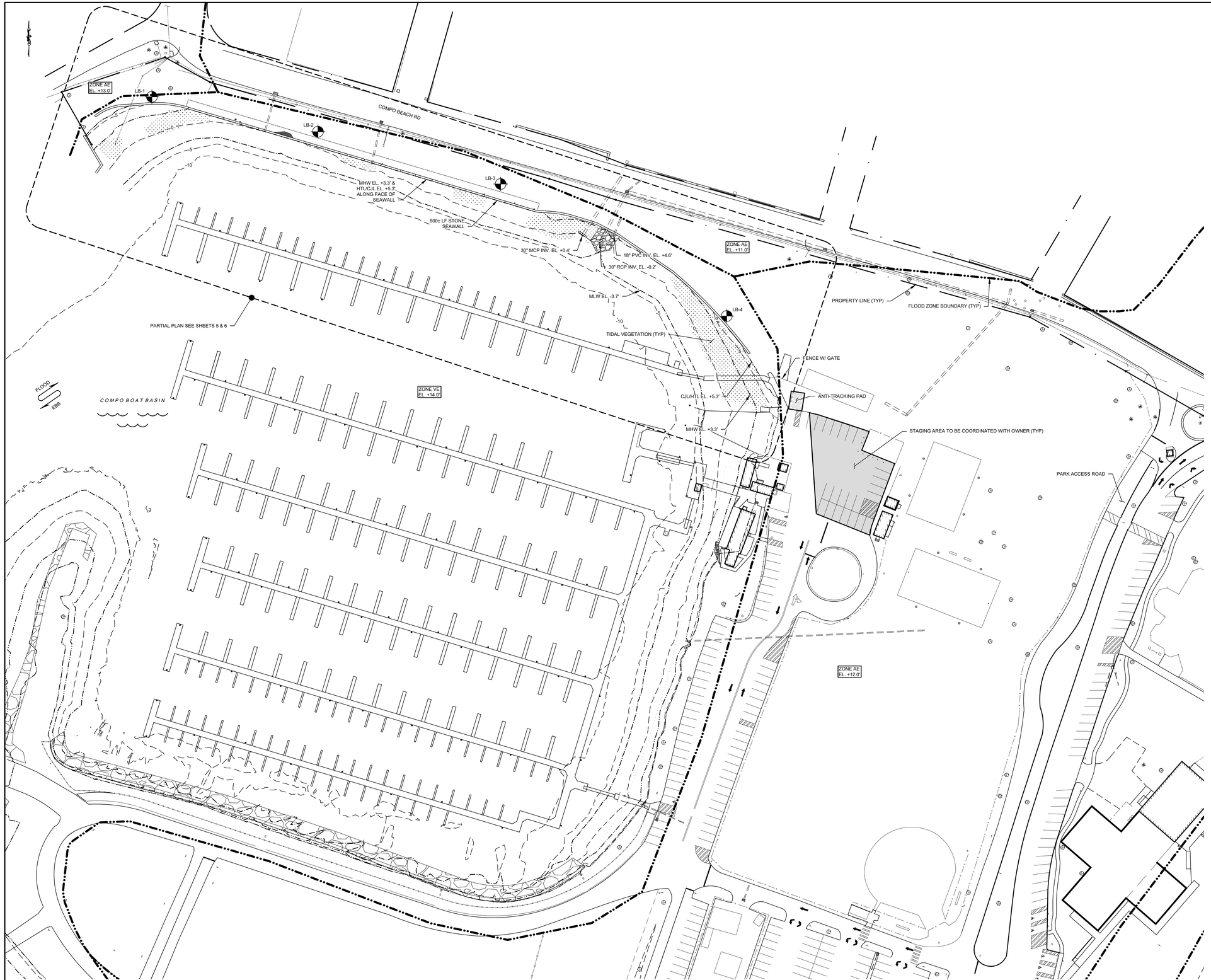
RACE COASTAL ENGINEERING
611 Access Road
Stratford, CT 06615
Tel.: 203-377-0663
racecoastal.com

Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

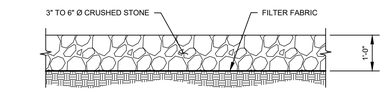
Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

Drawing
BORING LOGS

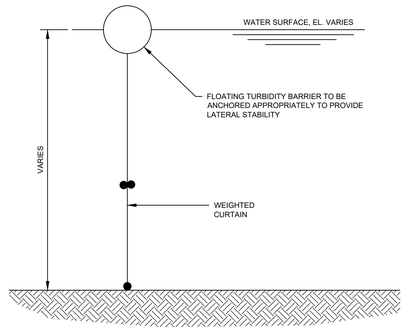
Designed	Drawn	Checked
MJHS	MJHS	MRR
Job No. 2025021	Date 9/19/2025	Drawing No. 3 of 7



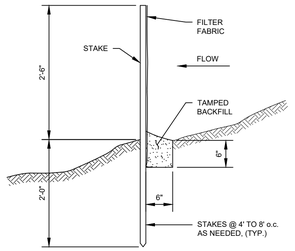
EXISTING SITE PLAN
SCALE: 1" = 50'-0"



ANTI-TRACKING SECTION
N.T.S.



TURBIDITY CURTAIN
N.T.S.



NOTE(S):

1. DO NOT INSTALL SILT FENCE BELOW MEAN HIGH WATER (M.H.W.).

SILT FENCE
N.T.S.

1"=50'-0" 0 50 100 FT.

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

RACE COASTAL ENGINEERING
611 Access Road
Stratford, CT 06615
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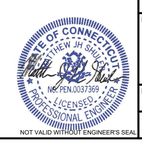
racecoastal.com

Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

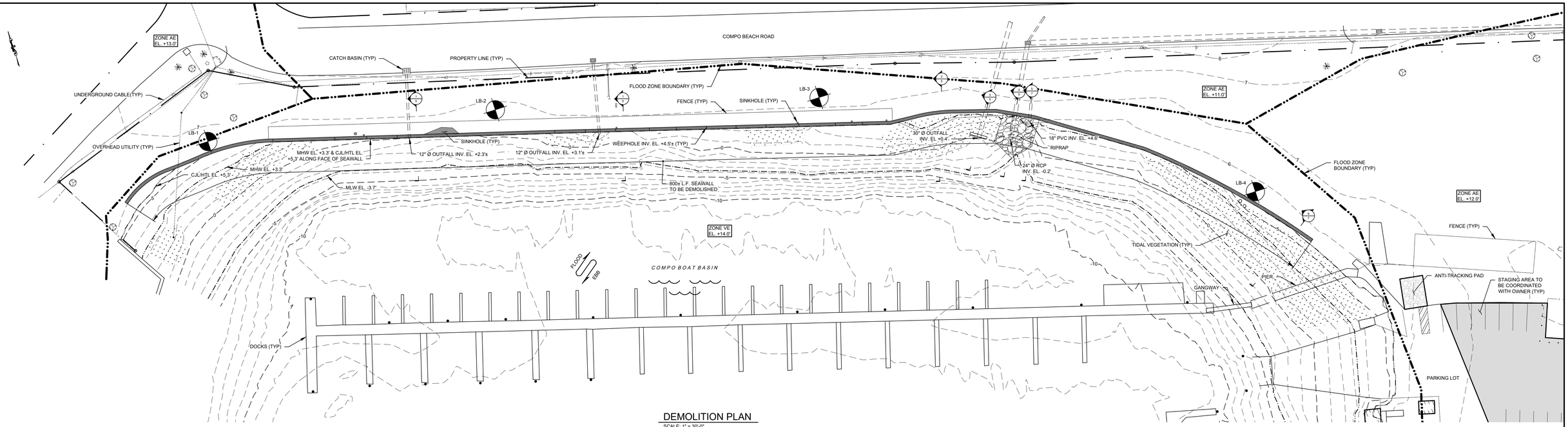
Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

Drawing
EXISTING SITE PLAN

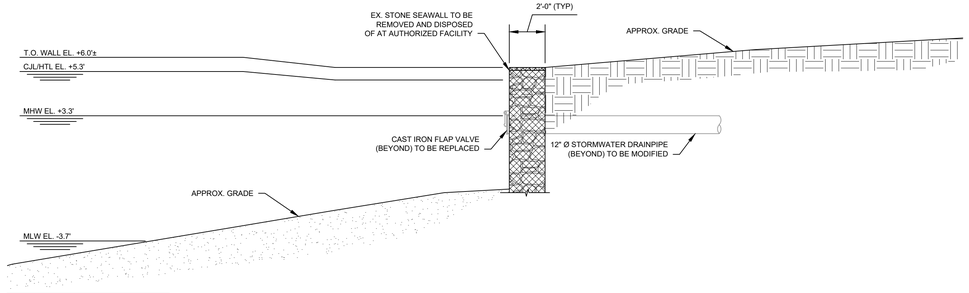
Designed	Drawn	Checked
MJHS	MJHS	MRR
Job No.	Date	Drawing No.
2025021	9/19/2025	4 of 7



NOT VALID WITHOUT ENGINEER'S SEAL



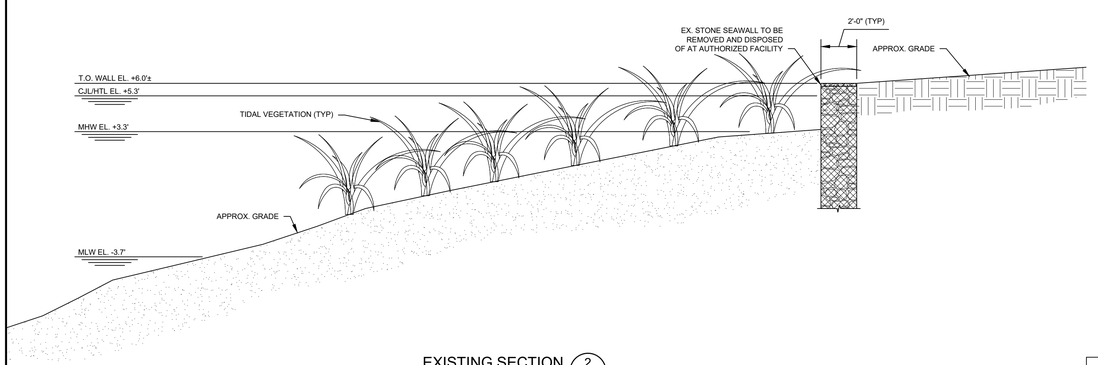
DEMOLITION PLAN
SCALE: 1" = 30'-0"



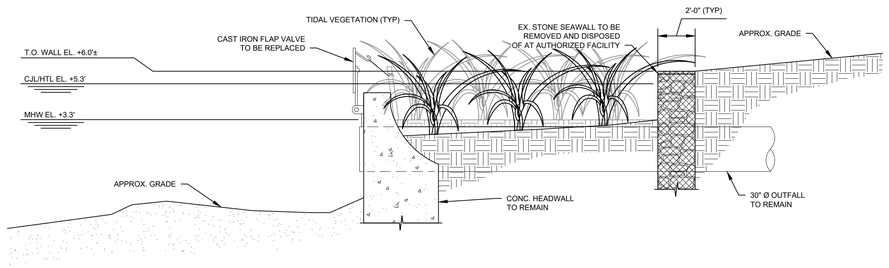
NOTE(S):

1. CONTRACTOR SHALL PROTECT STORMWATER OUTFALL PIPES DURING DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF OUTFALLS DAMAGED DURING CONSTRUCTION.

EXISTING SECTION 1/5
SCALE: 1/4" = 1'-0"



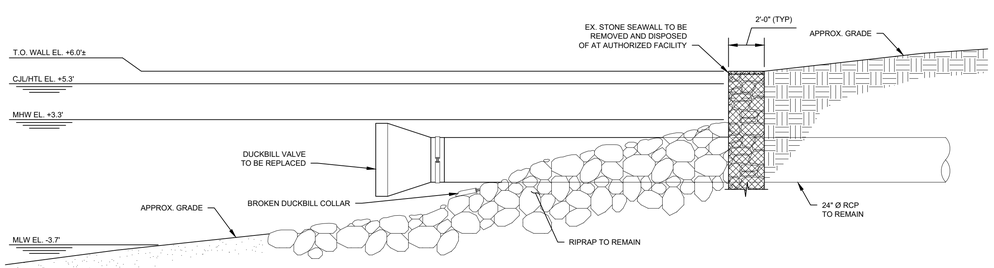
EXISTING SECTION 2/5
SCALE: 1/4" = 1'-0"



NOTE(S):

1. MEAN LOW WATER EL. -3.7' WATERWARD OF SECTION SHOWN.
2. CONTRACTOR SHALL PROTECT STORMWATER OUTFALL PIPES DURING DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF OUTFALLS DAMAGED DURING CONSTRUCTION.

EXISTING SECTION 3/5
SCALE: 1/4" = 1'-0"



NOTE(S):

1. CONTRACTOR SHALL PROTECT STORMWATER OUTFALL PIPES DURING DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF OUTFALLS DAMAGED DURING CONSTRUCTION.

EXISTING SECTION 4/5
SCALE: 1/4" = 1'-0"

1"=30'-0" 0 30 60 FT.

1/4"=1'-0" 0 4 8 FT.

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

RACE COASTAL ENGINEERING
611 Access Road
Stratford, CT 06615
Tel.: 203-377-0663
racecoastal.com

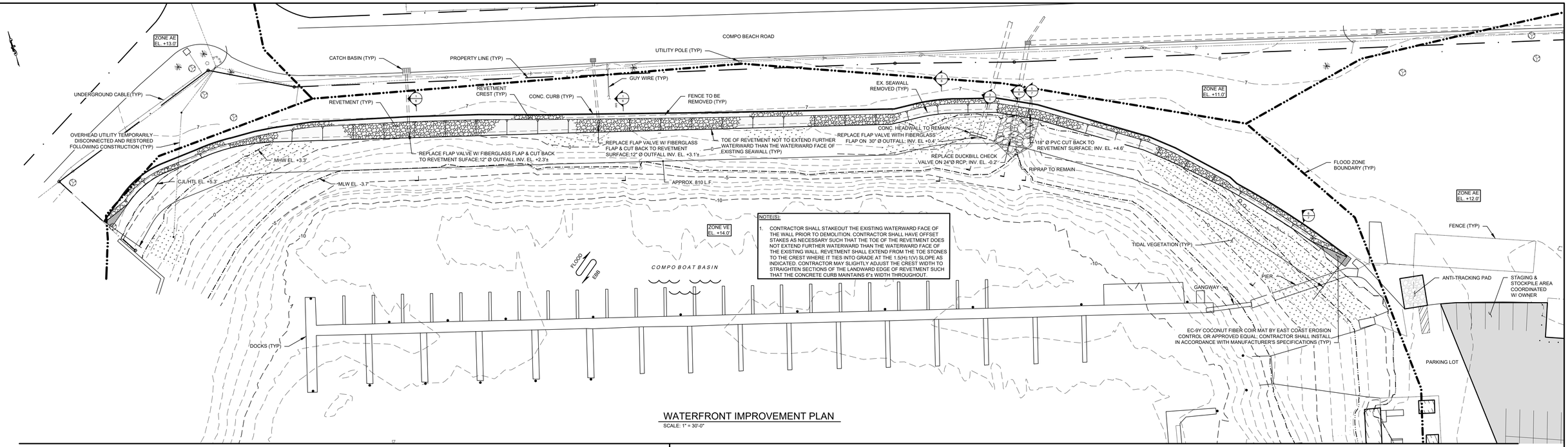
Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

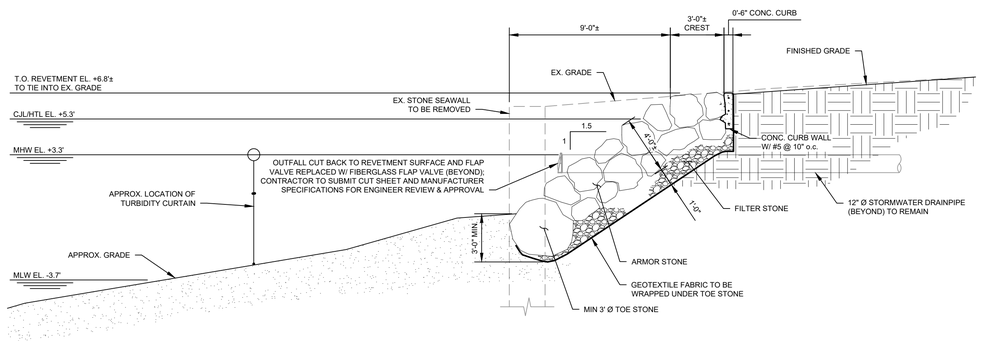
Drawing
DEMOLITION PLAN
& SECTIONS

STATE OF CONNECTICUT
MATTHEW JH SHULL
No. PEN.0037369
LICENSED PROFESSIONAL ENGINEER
NOT VALID WITHOUT ENGINEER'S SEAL

Designed	Drawn	Checked
MJHS	MJHS	MRR
Job No.	Date	Drawing No.
2025021	9/19/2025	5 of 7

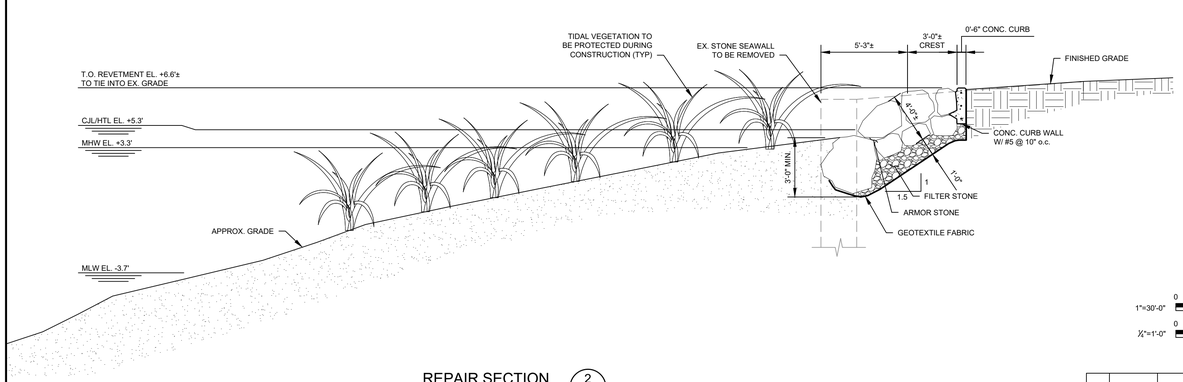


WATERFRONT IMPROVEMENT PLAN
SCALE: 1" = 30'-0"

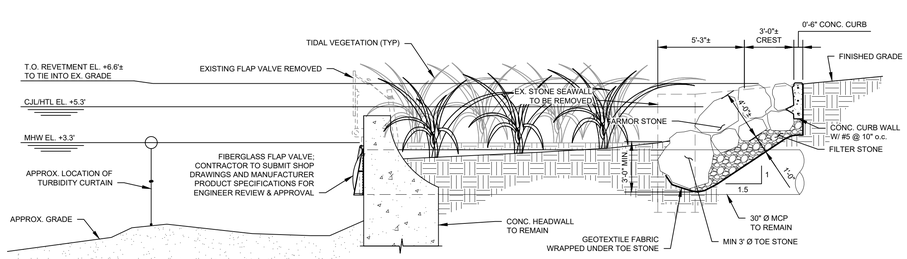


NOTE(S):
1. ARMOR STONE SHALL BE PLACED / STACKED AROUND OUTFALL PIPE.

REPAIR SECTION 1/6
SCALE: 1/4" = 1'-0"

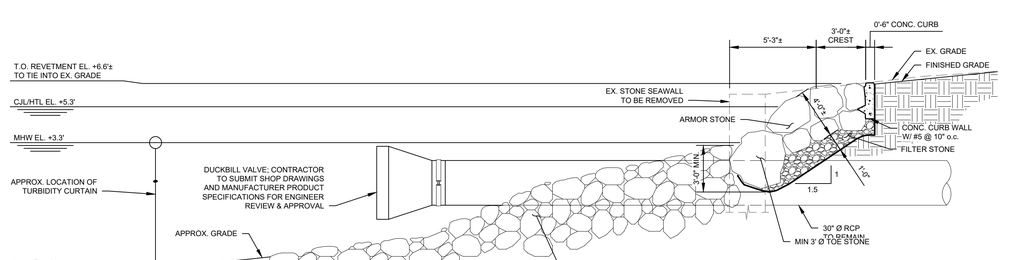


REPAIR SECTION 2/6
SCALE: 1/4" = 1'-0"



NOTE(S):
1. MEAN LOW WATER EL. -3.7' WATERWARD OF SECTION SHOWN.
2. ARMOR STONE SHALL BE PLACED / STACKED AROUND OUTFALL PIPE.

REPAIR SECTION 3/6
SCALE: 1/4" = 1'-0"



NOTE(S):
1. ARMOR STONE SHALL BE PLACED / STACKED AROUND OUTFALL PIPE.

REPAIR SECTION 4/6
SCALE: 1/4" = 1'-0"

1"=30'-0" 0 30 60 FT.
1/4"=1'-0" 0 4 8 FT.

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

RACE COASTAL ENGINEERING
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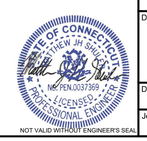
racecoastal.com

Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

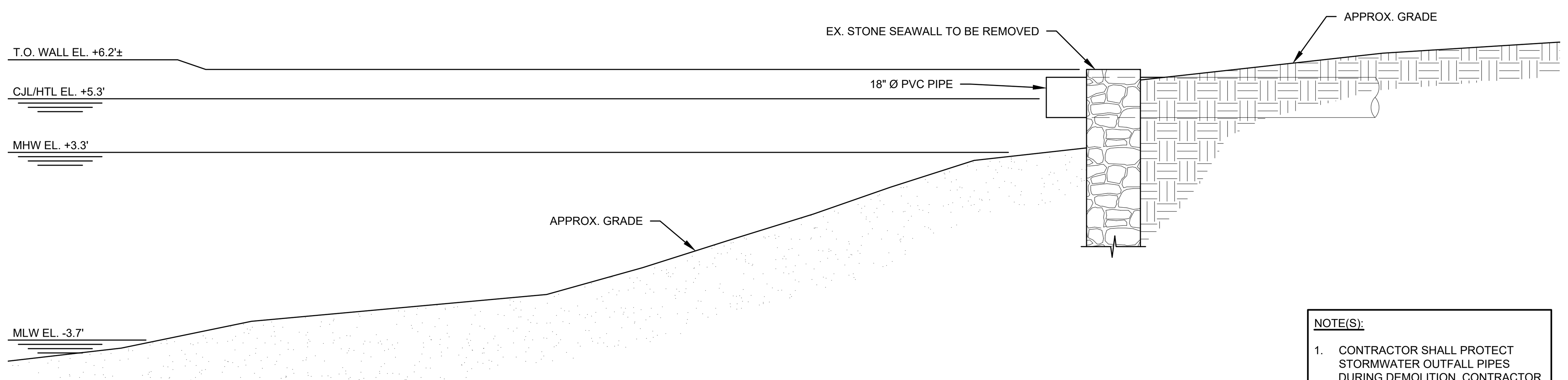
Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

Drawing
WATERFRONT IMPROVEMENT
PLAN & REPAIR SECTIONS



NOT VALID WITHOUT ENGINEER'S SEAL

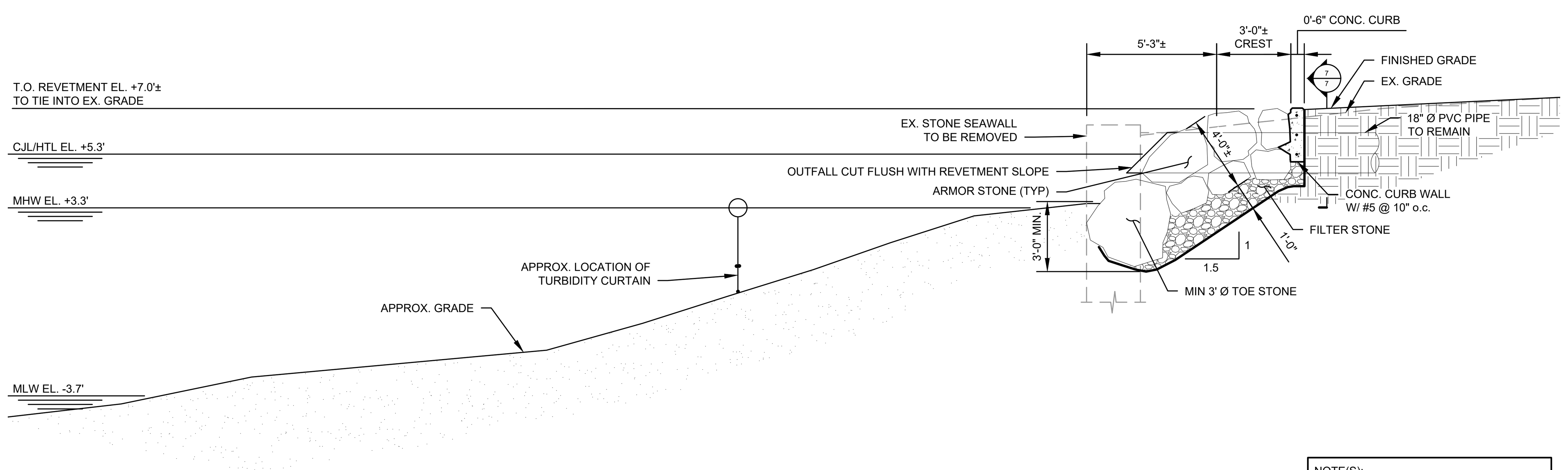
Designed	Drawn	Checked
MJHS	MJHS	MRR
Job No. 2025021	Date 9/19/2025	Drawing No. 6 of 7



NOTE(S):

1. CONTRACTOR SHALL PROTECT STORMWATER OUTFALL PIPES DURING DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF OUTFALLS DAMAGED DURING CONSTRUCTION.

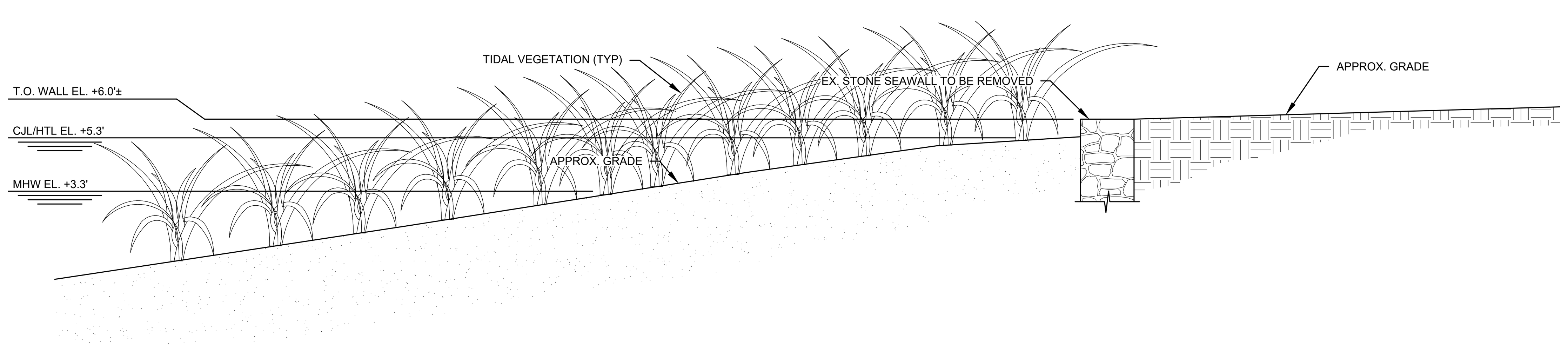
EXISTING SECTION 5/5
SCALE: 1/4" = 1'-0"


0'-6" CONC. CURB
3'-0"±
CREST
5'-3"±
FINISHED GRADE
EX. GRADE
T.O. REVETMENT EL. +7.0'±
TO TIE INTO EX. GRADE
EX. STONE SEAWALL
TO BE REMOVED
18" Ø PVC PIPE
TO REMAIN
CJL/HTL EL. +5.3'
4'-0"±
OUTFALL CUT FLUSH WITH REVETMENT SLOPE
ARMOR STONE (TYP)
CONC. CURB WALL
W/ #5 @ 10" o.c.
MHW EL. +3.3'
3'-0" MIN.
FILTER STONE
1
1'-0"
1.5
APPROX. LOCATION OF
TURBIDITY CURTAIN
MIN 3' Ø TOE STONE
APPROX. GRADE
MLW EL. -3.7'

NOTE(S):

1. ARMOR STONE SHALL BE PLACED / STACKED AROUND OUTFALL PIPE.

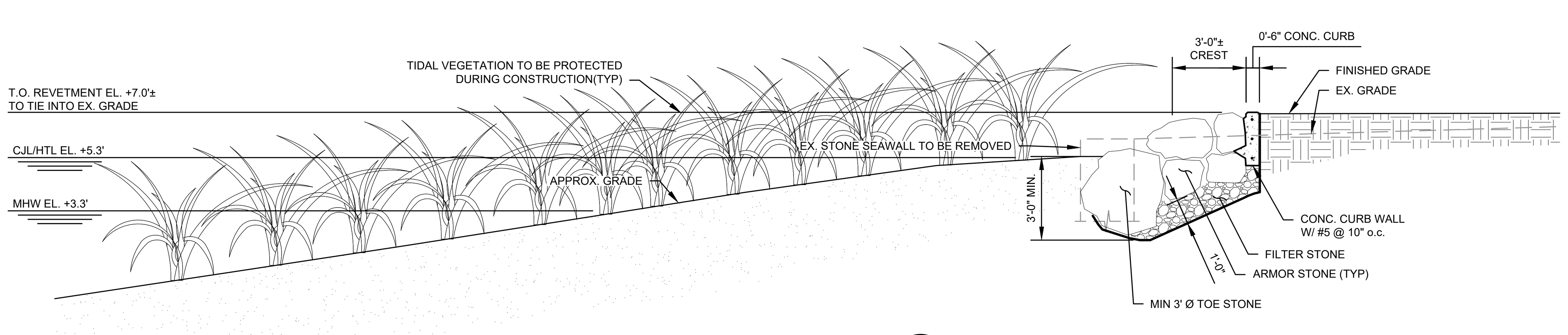
REPAIR SECTION 5/6
SCALE: 1/4" = 1'-0"



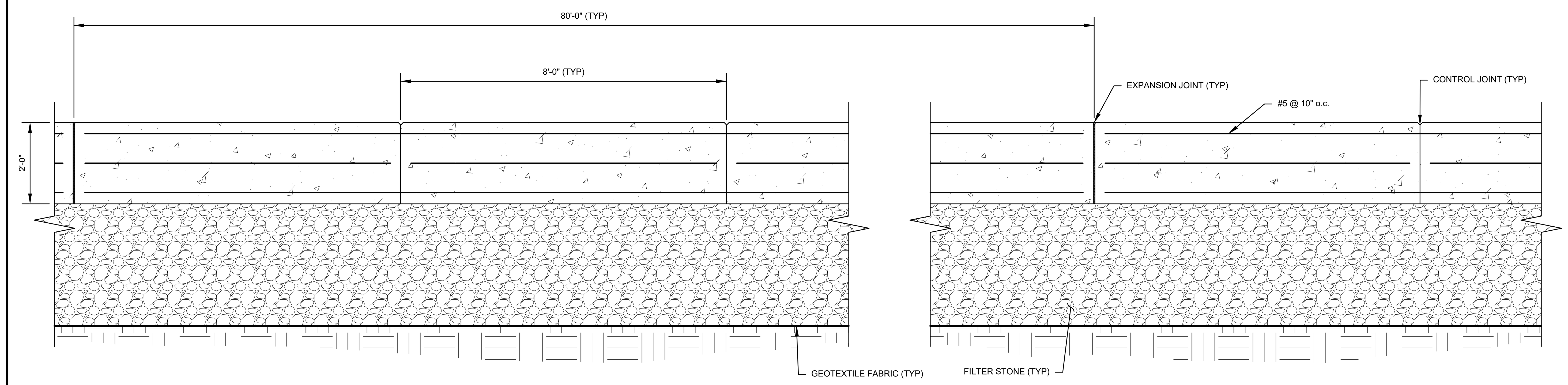
NOTE(S):

1. MEAN LOW WATER EL. -3.7' WATERWARD OF SECTION SHOWN.

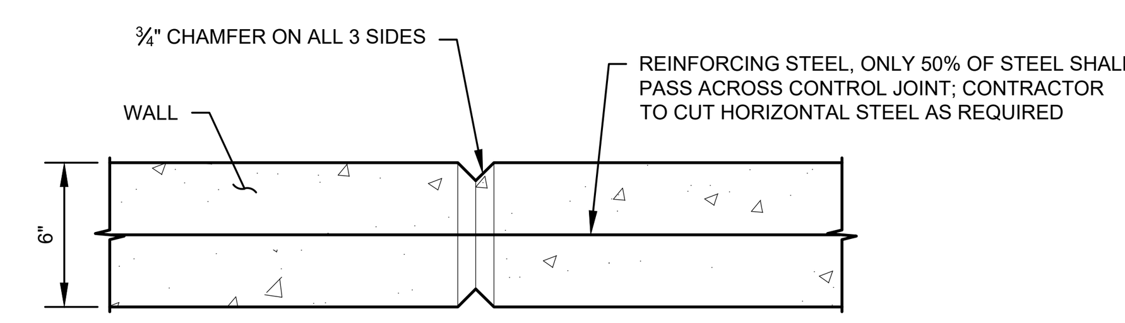
EXISTING SECTION 6/5
SCALE: 1/4" = 1'-0"


3'-0"±
CREST
0'-6" CONC. CURB
TIDAL VEGETATION TO BE PROTECTED
DURING CONSTRUCTION(TYP)
FINISHED GRADE
EX. GRADE
T.O. REVETMENT EL. +7.0'±
TO TIE INTO EX. GRADE
CJL/HTL EL. +5.3'
EX. STONE SEAWALL TO BE REMOVED
APPROX. GRADE
MHW EL. +3.3'
3'-0" MIN.
CONC. CURB WALL
W/ #5 @ 10" o.c.
FILTER STONE
1'-0"
ARMOR STONE (TYP)
MIN 3' Ø TOE STONE

REPAIR SECTION 6/6
SCALE: 1/4" = 1'-0"



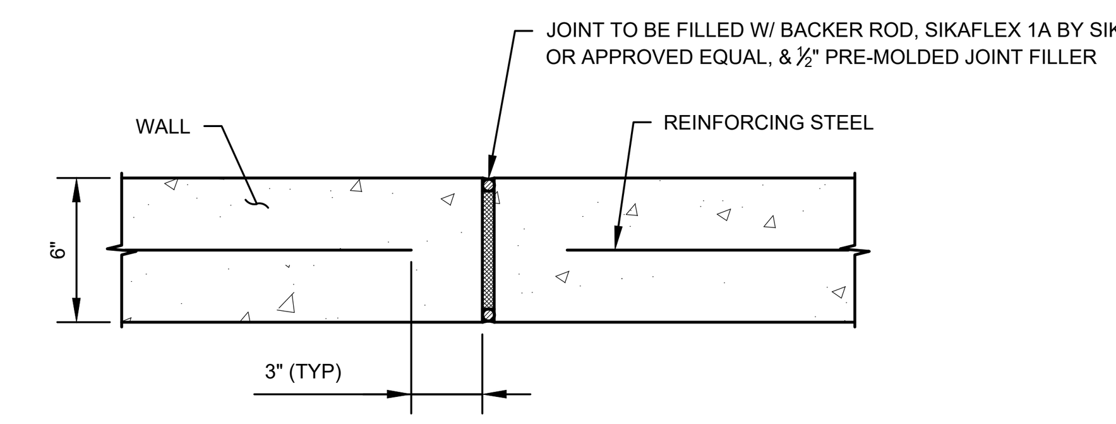
CURB ELEVATION 7/7
SCALE: 1/2" = 1'-0"



NOTE(S):

1. JOINTS TO BE LOCATED @ 8'-0" o.c. FOR CONCRETE CURB WALL.

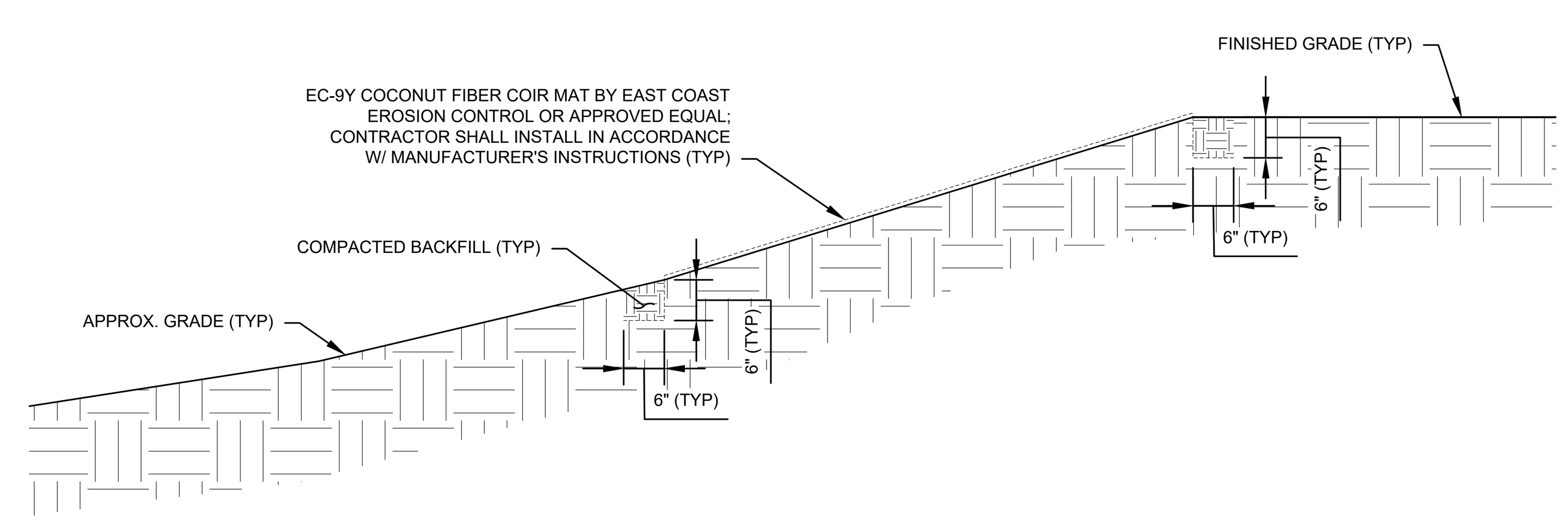
TYPICAL CONTROL JOINT
SCALE: 3" = 1'-0"



NOTE(S):

1. JOINTS TO BE LOCATED @ 80'-0" o.c. FOR CONCRETE CURB WALL.

TYPICAL EXPANSION JOINT
SCALE: 3" = 1'-0"



TYPICAL EROSION CONTROL BLANKET SECTION
SCALE: 1/2" = 1'-0"

STATE OF CONNECTICUT
MATTHEW JH SHULTS
NO. PEN.0037369
LICENSED
PROFESSIONAL ENGINEER
NOT VALID WITHOUT ENGINEER'S SEAL

REV	DATE	DESCRIPTION

PROGRESS
NOT FOR CONSTRUCTION

RACE COASTAL ENGINEERING
611 Access Road
Stratford, CT 06615
Tel.: 203-377-0663
racecoastal.com

Prepared for
TOWN OF WESTPORT
110 MYRTLE AVE
WESTPORT, CT 06880

Project
NED DIMES MARINA REVETMENT
60 COMPO BEACH RD
WESTPORT, CT 06880

Drawing
REPAIR SECTIONS & DETAILS

Designed MJHS	Drawn MJHS	Checked MRR
Job No. 2025021	Date 9/19/2025	Drawing No. 7 of 7