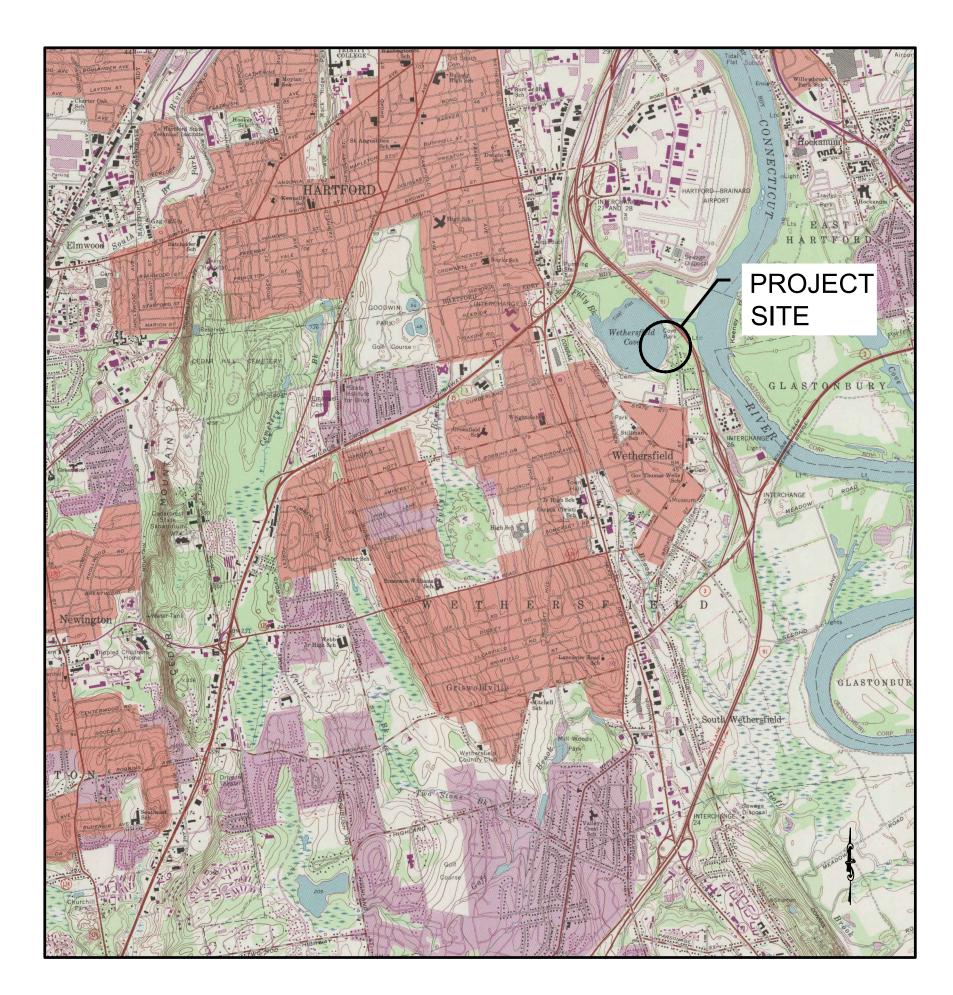
COVE PARK BOAT RAMP TOWN OF WETHERSFIELD 505 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

JANUARY 21, 2019



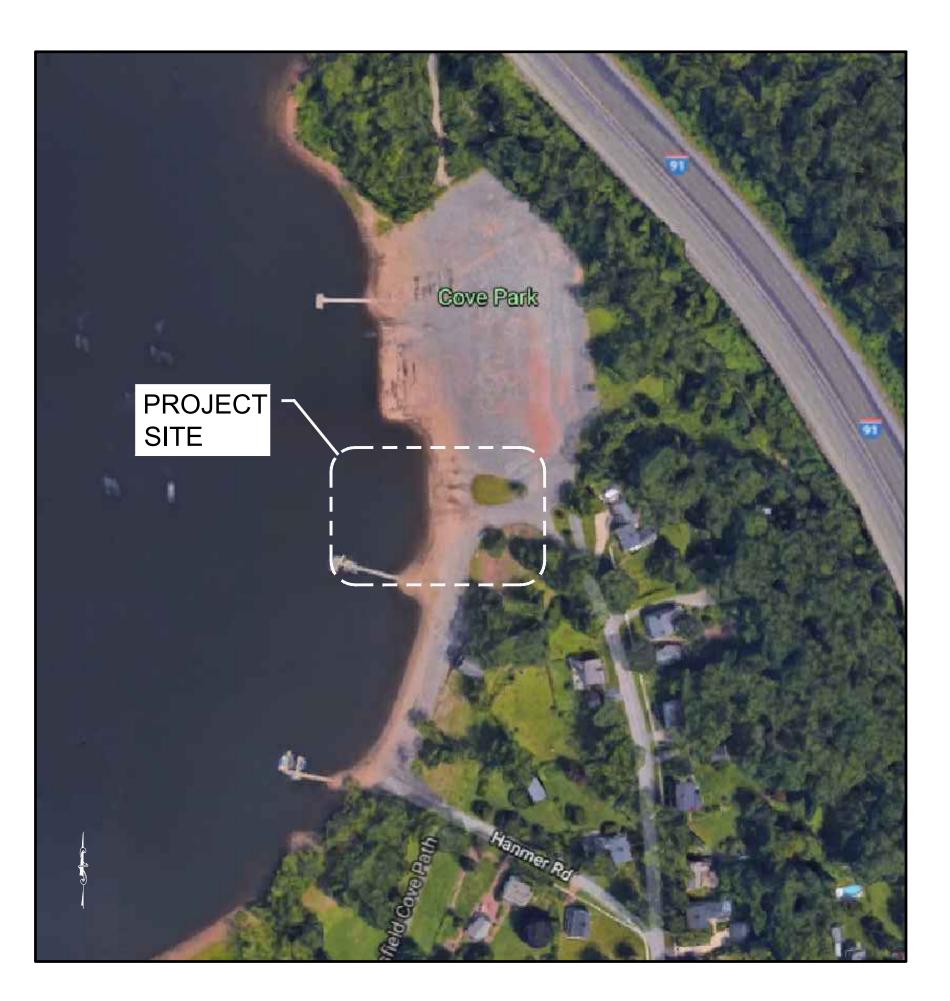
VICINITY MAP

LIST OF DRAWINGS

DRAWING NO. DRAWING NAME

1	TITLE SHEET, DRAWING LIST & VICINITY
2	PROJECT NOTES (1 of 2)
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4	EXISTING SITE PLAN
5	GENERAL SITE PLAN & S&E CONTROLS
6	GENERAL PARTIAL PLAN & SECTIONS
7	SECTIONS & DETAILS (1 of 2)
8	SECTIONS & DETAILS (2 of 2)
9	MISCELLANEOUS DETAILS

WETHERSFIELD



AERIAL PHOTO

IITY MAP

COASTAL ENGINEERING								
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REVISIONS:	<u> </u>							
NOT VALID WITHOUT ENGINEER'S SEAL:								
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505 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109 PROJECT: COVE PARK BOAT RAMP COVE PARK								
505 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109 PROJECT: COVE PARK BOAT RAMP COVE PARK WETHERSFIELD, CT 06109 DRAWING: DRAWING: DRAWING LIST & VICINITY MAP Designed By: Date: ARJ 1/21/201	9							
Designed By:	ne							

PROJECT NOTES

DESCRIPTION OF WORK:

THE WORK COVERED UNDER THESE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS AND ALL AMENDMENTS, CONSISTS OF PROVIDING ALL PLANT, LABOR, SUPERVISION, EQUIPMENT APPLIANCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN DEMOLITION & DISPOSAL: CONNECTION WITH AT LEAST, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING ITEMS:

* EXCAVATION AND SITE PREPARATION * LAYOUT AND INSTALLATION OF CONCRETE BOAT RAMP * RE-GRADE ADJACENT AREAS

THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES REQUIRED 2. ALL DEBRIS AND DEMOLITION MATERIALS REMOVED FROM TO COMPLETE ALL ASPECTS OF THE WORK NEEDED FOR A COMPLETE AND PROPER INSTALLATION. THE PROJECT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.

GENERAL:

- I. ALL ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL CAST-IN-PLACE CONCRETE: DATUM 1988 (NAVD 88). CONVERSION FROM ELEVATION ON DATUM NGVD 29 IS SUBTRACT 0.9' TO DETERMINE ELEVATION ON DATUM NAVD 88 (EL. 0' NAVD 88).
- 2. PROJECT DESIGNED TO SUPPORT LIVE LOAD OF AASHTO HS-20.
- 3. SITE INFORMATION HAD BEEN TAKEN FROM A DRAWING TITLED 2. CONFORM TO THE RECOMMENDATIONS OF ACI 304 LATES "WETHERSFIELD COVE, WETHERSFIELD - 10-29-18" PREPARED FOR RACE COASTAL ENGINEERING, LCC BY GESICK AND ASSOCIATES, PC DATED OCTOBER 29, 2018.
- 3.1. THE MAP WAS PREPARED FROM RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY/BOUNDARY OR LIMITED PROPERTY/ BOUNDARY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID 4. SURVEYS MAY DISCLOSE.
- 3.2. THE SURVEY CONFORMS TO THE STANDARDS AND THE ACCURACY OF CLASS: T-2 TOPOGRAPHIC ACCURACY.
- 3.3. BEARINGS AS DEPICTED ARE BASED UPON THE CONNECTICUT GRID SYSTEM NORTH AMERICAN DATUM OF 1983. 3.4. ELEVATIONS BASED UPON NORTH AMERICAN VERTICAL DATUM 1988.
- 4. SUPPLEMENTARY INFORMATION OBTAINED BY RACE COASTAL ENGINEERING, LLC ON NOVEMBER 1, 2018 AND CAN ONLY REPRESENT THE SITE CONDITIONS AT THE TIME OF THE SURVEY.
- 5. WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS, STATUTES AS WELL AS THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK.
- 6. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT REGULATORY PERMITS AND 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.
- 7. CONTRACTOR RESPONSIBLE FOR PREPARATION OF FLOOD CONTINGENCY PLAN FOR APPROVAL AND MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 8. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND FABRICATION OR ORDERING OF ANY CONSTRUCTION MATERIALS.
- 9. SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
- IO. 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 AT THE EXPENSE OF THE CONTRACTOR.
- II. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS.
- 12. 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.
- 13. 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.
- 14. THE CONTRACTOR SHALL PROTECT WETLANDS AND COASTAL RESOURCES FROM INTRUSION BY TURBID WATERS, CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, OR PERSONNEL DURING WORK ACTIVITIES.
- 15. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT SUM THE COST FOR ALL NECESSARY PERMITS, LICENSES, CERTIFICATES OF INSPECTION, AND ALL LEGAL FEES IN CONNECTION WITH THE WORK OF THIS CONTRACT. THE OWNER HAS OBTAINED NECESSARY REGULATORY PERMITS REQUIRED FOR THE WORK IN REGULATED AREAS.
- 16. THE CONTRACTOR SHALL REQUEST COPIES OF THOSE REGULATORY PERMITS AND MAKE PROVISION IN THIS WORK AND IN THE COST OF THE WORK FOR APPLICABLE CONDITIONS OF THOSE PERMITS. FAILURE TO CONSIDER ANY CONDITION OF THE REGULATORY PERMITS AS A PART OF THE BID SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO APPLY THOSE CONDITIONS TO HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- 17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT FROM DAMAGE ALL UTILITIES, UTILITY STRUCTURES OR STRUCTURES WITH IN THE WORK AREA PRIOR TO ANY WORK BEING PERFORMED.
- 18. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE LANDSCAPING, INCLUDING BUT NOT LIMITED TO LAWN, TREES, PLANTINGS, TOPSOIL, GRASS, SIGNS, 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 COLLECTED AND DISPOSED OF IN A PROPER MANNER.
- 20. EXISTING STRUCTURES WITHIN THE VICINITY OF THE WORK THAT ARE TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.

PROJECT LAYOUT:

- I. THE CONTRACTOR SHALL HAVE A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT LAYOUT THE CONTRACT WORK PRIOR TO THE START OF CONSTRUCTION AND PROVIDE THE OWNER WITH AN "AS-BUILT" DRAWING OF THE COMPLETED WORK CONFORMING TO A-2 AND T-2 STANDARDS. THE COSTS FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACT SUM FOR THE WORK.
- 2. ANY STRUCTURES CONSTRUCTED IN POSITIONS OTHER THAN THE LOCATIONS DEPICTED ON THE PROJECT PLANS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

PRIOR TO START OF WORK. AT NO TIME SHALL CONSTRUCTION OR DEMOLITION DEBRIS BE STORED BELOW CJL OR WITH WETLAND AREAS.

- I. CONTRACTOR SHALL DEMOLISH AND REMOVE FROM SITE LISTED ON DEMOLITION SCHEDULE AND/OR REQUIRED CONSTRUCTION OF THE PROJECT INCLUDING ASSOCIATED UTIL ANCILLARY ITEMS.
- SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CON SHALL LEGALLY DISPOSE OF SUCH MATERIAL AND RE MANIFESTS AND DOCUMENTATION FOR DISPOSAL OPERATION DOCUMENTATION SHALL BE MADE AVAILABLE TO THE OW REQUEST.

- CAST-IN-PLACE CONCRETE WORK SHALL CONFORM REQUIREMENTS OF ACI 301 - LATEST EDITION, "SPECIFICAT STRUCTURAL CONCRETE FOR BUILDINGS."
- "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPOR PLACING CONCRETE."
- 3. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS 318-LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR RE CONCRETE."
- CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COM STRENGTH OF 5,000 PSI AT 28 DAYS.
- CONCRETE SHALL CONTAIN 4% TO 6% ENTRAINED AIR.
- 6. CONCRETE SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO
- READY MIX PLANT EQUIPMENT AND FACILITIES SHALL CONFOR "CHECK LIST FOR CERTIFICATION OF READY MIXED PRODUCTION FACILITIES" OF THE NRMCA.
- 8. SUBMIT CONCRETE MIX DESIGN, WITH KNOWN TEST RESULTS ENGINEER FOR REVIEW. THE CONCRETE MIX DESIGN SUBMIT CONSIST OF AT LEAST THE FOLLOWING:
- TYPE OF CEMENT. Α.
- В. DRY WEIGHT OF CEMENT.
- SATURATED SURFACE-DRY WEIGHTS OF FINE AND С. AGGREGATES.
- SPECIFIC GRAVITY OF FINE AND COARSE AGGREGATE D. QUANTITIES, TYPE, NAME AND PRODUCER OF ADMIXT
- APPLICABLE.
- TOTAL WEIGHT OF WATER, INCLUDING THE WATER F. ABSORBED BY AND ON THE SURFACE OF THE AGGREG
- WATER TO CEMENT RATIO.
- SLUMP: MAXIMUM SLUMP, TAKEN AT THE TRUCK, DETERMINED BASED ON THE PUMP HOSE LENGTH. PESIGNS SHALL INCLUDE THE ANTICIPATED LOSS OF 100 FOOT LENGTH OF SPECIFIED HOSE SIZE.
- STRENGTH TEST DATA OF THE PROPOSED MIX D SPECIFIED HEREIN.
- SUBMIT CONCRETE BATCH TICKETS FOR EACH TRUCK DELIVERE EACH TICKET SHALL NOTE AT LEAST THE FOLLOWING DATA: D STRENGTH; BATCH PROPORTIONS INCLUDING ACTUAL WA AGGREGATE MOISTURE CONTENTS; DATE AND BATCH TIME; ARR AT SITE; DISCHARGE TIME; CONCRETE VOLUME; AND ANY C CONCRETE MADE AT THE SITE.

IO. CONCRETE SHALL CONSIST OF THE FOLLOWING MATERIALS:

- PORTLAND CEMENT: TYPE II LOW ALKALI CONFC ASTM C 150, "STANDARD SPECIFICATION FOR CEMENT."
- COARSE AND FINE AGGREGATE SHALL BE NORMAL WE UNIFORMLY GRADED AND CLEAN CONFORMING TO "STANDARD SPECIFICATION FOR CONCRETE AGGREGA NOT USE AGGREGATE KNOWN TO CAUSE EXCESSIVE SHR
- С. COARSE AGGREGATE SHALL BE CRUSHED ROCK OF GRAVEL WITH A MAXIMUM SIZE OF 3/4".
- D. FINE AGGREGATE SHALL BE NATURAL WASHED SAND AND DURABLE PARTICLES VARYING FROM FINE TO PASSING A 3/8" SCREEN, OF WHICH AT LEAST 12% SHAL 50-MESH SCREEN.
- CONCRETE SHALL HAVE DCI-S CORROSION ADMIXTURE, AS MANUFACTURED BY W.R. GRACE, AT A 4 GALLONS PER CUBIC YARD OF CONCRETE.
- WATER SHALL BE CLEAN AND POTABLE.

F.

- AIR ENTRAINING ADMIXTURE SHALL CONFORM TO AS "STANDARD SPECIFICATION FOR AIR ENTRAINING A FOR CONCRETE." THE AIR ENTRAINING AGENT SHA NON-TOXIC CONCENTRATED SOLUTION OF NEUTRALIZE RESIN, SUCH AS "DARAVAIR" AS MANUFACTURED BY W. COMPANY OR EQUIVALENT ACCEPTED BY THE ENGINEE
- WATER REDUCING ADMIXTURE SHALL CONFORM TO AS "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTI CONCRETE." WATER REDUCING AGENT SHALL BE OF C, D, E, F, OR G (AS NOTED IN CONCRETE MIX DESIGN) DARACEM-100" OR WRDA-19" AS MANUFACTURED GRACE COMPANY OR EQUIVALENT ACCEPTED BY THE
- II. CURING MATERIALS SHALL CONFORM TO ASTM C309, "S SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUN CURING CONCRETE", WET BURLAP, OR PLASTIC MEMBRANE.
- 12. CONCRETE SHALL BE PROPORTIONED TO HAVE A SLUMP OF 4 INCH, AT THE DISCHARGE END OF THE PUMP HOSE. USE WATER REDUCING AGENT AS REQUIRED TO ACHIEVE DESIRED SLUMP RANGE. ADDITION OF REINFORCING STEEL: WATER AT SITE WILL NOT BE PERMITTED.
- 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.

MATERIAL THIN TIDAL	COATING IS USED, IT SHALL BE APPLIED PRIOR TO PLACEMENT OF REINFORCING STEEL.	5.	0 51
	15. FORM TIES AND SPREADERS SHALL BE OF SUCH TYPE AS TO LEAVE NO METAL CLOSER THAN 3 INCHES FROM ANY EXPOSED CONCRETE SURFACE.	4.	R B
ALL ITEMS FOR THE _ITIES AND	16. 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.	5.	P D P
THE SITE NTRACTOR	17. TRANSIT MIX THE CONCRETE IN ACCORDANCE WITH PROVISIONS OF ASTM C94 - LATEST EDITION.	6.	D 0
ETAIN ALL ONS. SUCH INER UPON	18. DO NOT USE CONCRETE AFTER 90 MINUTES FROM TIME OF INTRODUCTION OF WATER TO THE MIX.	_	UN St
	19. REMOVE FOREIGN MATTER ACCUMULATED IN THE FORMS.	٦.	M No
TO ALL FIONS FOR	20.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.	8.	M Sl
T EDITION,	21. USE ONLY CLEAN TOOLS.	9.	D D
RTING, AND	22. PERFORM CONCRETE PLACING AT SUCH A RATE THAT CONCRETE WHICH IS BEING INTEGRATED WITH FRESH CONCRETE IS STILL PLASTIC.		A
S OF ACI EINFORCED	23. DEPOSIT CONCRETE AS NEARLY AS PRACTICABLE IN ITS FINAL LOCATION SO AS TO AVOID SEPARATION DUE TO REHANDLING AND FLOWING.		В
MPRESSIVE	24. 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.	10.	C M
0F 0.40.	25. REMOVE REJECTED AND EXCESS CONCRETE FROM THE JOB SITE. 26. FREE-FALL OF CONCRETE DURING PLACEMENT GREATER THAN EIGHT	١١.	SI Pi
RM TO THE CONCRETE	FEET IS PROHIBITED. THE CONTRACTOR SHALL PLACE CONCRETE WITH A TREMIE TUBE FOR DROPS GREATER THAN EIGHT FEET.	12.	G
6, T <i>O</i> THE	27. DEPOSIT CONCRETE IN HORIZONTAL LAYERS NOT DEEPER THAN 24 INCHES, AND AVOID INCLINED CONSTRUCTION JOINTS.		A Sl
TAL SHALL	28. REMOVE TEMPORARY SPREADERS IN FORMS WHEN CONCRETE HAS REACHED THE ELEVATION OF THE SPREADERS.	13.	A Sl
	29. CONSOLIDATE EACH LAYER OF CONCRETE IMMEDIATELY AFTER PLACING, BY USE OF INTERNAL CONCRETE VIBRATORS SUPPLEMENTED BY HAND SPADING, RODDING, OR TAMPING.	PF .	Tł
O COARSE	30. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INSIDE THE FORMS.		N/ PI PI
5.	31. DO NOT USE HORIZONTAL CONSTRUCTION JOINTS, UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.	2.	T I M
KTURES, AS WHICH IS WATES.	32. 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	З.	M PI TI
	HARDENING OF THE CONCRETE. 33. IF COLD-WEATHER CONCRETING IS ANTICIPATED, A PRECONSTRUCTION	4.	La Pi
WILL BE THE MIX SLUMP PER	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 CONCRETE.	5.	SI PI M TI
PESIGN AS	34. WHEN THE MEAN DAILY AMBIENT AND SUBSTRATE TEMPERATURE IS ABOVE 80 DEGREES F. THE CONTRACTOR SHALL FOLLOW THE		R IN A
ED TO SITE, DESIGN MIX ATER AND RIVAL TIME CHANGE TO	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.	6. 7.	SI El M
DRMING TO PORTLAND	35. 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.	8.	To El G
EIGHT AND ASTM C33,	36. FORM TIE HOLES SHALL BE PLUGGED SOLID WITH REWORKED CEMENT MORTAR OF THE SAME PROPORTIONS AS THAT USED IN THE CONCRETE.	٩.	_
ATES." DO RINKAGE.	37. TESTS OF CONCRETE SHALL BE MADE BY AN INDEPENDENT TESTING AGENCY AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL	10.	C
R WASHED	SCHEDULE TESTS AND NOTIFY THE OWNER AND ENGINEER OF TESTING SCHEDULE. 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,	II.	SI
OF HARD PARTICLES LL PASS A	ASTM C 3I, 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.	12.	R C
	NON-SHRINK, NON-STAINING GROUT:		S
A RATE OF	I. GROUT SHALL BE FIVE-STAR, NON-SHRINK, NON-STAINING AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 9,000 PSI CONFORMING TO ASTM C827.	13.	C C F T P
STM C260, ADMIXTURE	2. BAGGED, PRE-MIXED FORMULATIONS OF NON-SHRINK GROUT SHALL MEET THE REQUIREMENTS OF ASTM C 1107, GRADE B. THE GROUT MUST BE MIXED WITH POTABLE WATER FOR USE. THE GROUT SHALL BE MIXED TO A	14.	A M
ALL BE A ED VINSOL I.R. GRACE R.	FLOWABLE CONSISTENCY AS DETERMINED BY ASTM C 230. ALL BAGGED MATERIAL SHALL BE CLEARLY MARKED WITH THE MANUFACTURER'S NAME, DATE OF PRODUCTION, BATCH NUMBER, AND WRITTEN INSTRUCTIONS FOR PROPER MIXING, PLACEMENT AND CURING OF THE PRODUCT.	15.	C P
STM C494 URES FOR	3. THE CONTRACTOR MAY FORMULATE AND DESIGN A GROUT MIX FOR USE ON THE PROJECT IN LIEU OF USING A PREBAGGED PRODUCT. THE		D H/
TYPE A, B, 1) SUCH AS BY W.R.	CONTRACTOR MUST OBTAIN PRIOR WRITTEN APPROVAL OF THE ENGINEER FOR ANY SUCH PROPOSED MIX DESIGN. ANY SUCH MIX DESIGN SHALL INCLUDE THE PROPORTIONS OF HYDRAULIC CEMENT, POTABLE WATER,	16.	FI UN T I
ENGINEER. STANDARD	FINE AGGREGATES, EXPANSIVE AGENT, AND ANY OTHER NECESSARY ADDITIVE OR ADMIXTURE. THIS MATERIAL SHALL MEET ALL OF THE SAME CHEMICAL AND PHYSICAL REQUIREMENTS AS MUST THE PRE-BAGGED	<u>A</u> \$	۶P
INDS FOR	GROUT, IN ACCORDANCE WITH ASTM CIIOT, GRADE B.4. ANY EXCESS CONCRETE AND/OR GROUT SHALL BE CLEANED OFF THE	١.	В И
INCHES, <u>+</u> I	EXTERIOR SURFACE.		8

- 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. CONTRACTOR SHALL COORDINATE STAGING AREA WITH THE OWNER 14. FORM COATING OR WATER SHALL BE APPLIED TO ALL FORMS, IF 3. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNL THERWISE NOTED. REINFORCING STEEL REQUIRED TO BE WELI HALL BE ASTM A706 GRADE 60.
 - REINFORCING STEEL SHALL BE EPOXY COATED. EPOXY COATING SHA 3E FUSION BONDED AS PER ASTM A 775.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAI DISPLACEMENT BY FORMS, CONSTRUCTION, AND THE CONCRE LACEMENT OPERATIONS.
 - REINFORCING STEEL SHALL BE CONTINUOUS UNLESS SPECIFICAL PETAILED OTHERWISE ON THE CONTRACT DRAWINGS. PROVIDE DOWI OR LAP SPLICES OF THE APPROPRIATE CLASS TO MAINTAIN CONTINU NLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. MINIMUM PLICES, UNLESS OTHERWISE NOTED, SHALL BE 72 BAR DIAMETERS.
 - 1INIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNL IOTED OTHERWISE, SHALL BE 3".
 - ORM TIES AND SPREADERS SHALL BE OF SUCH TYPE AS TO LEAVE 1ETAL CLOSER THAN SPECIFIED FROM ANY EXPOSED CONCRE SURFACE.
 - 00 NOT USE REINFORCING STEEL HAVING ANY OF THE FOLLOW DEFECTS:
 - BAR LENGTHS, DEPTHS, OR BENDS EXCEEDING THE SPECIF FABRICATION TOLERANCE.
 - BENDS OR KINKS NOT INDICATED ON THE DRAWINGS REQUIRED FOR THIS WORK.
 - BARS WITH CROSS-SECTION REDUCED DUE TO ANY CAUSE.
 - LEAN REINFORCEMENT AND REMOVE LOOSE DUST, EARTH, AND OTH 1ATERIALS WHICH REDUCE BOND OR DESTROY BOND WITH CONCRETE
 - PACERS, CHAIRS, BOLSTERS, AND OTHER DEVICES NECESSARY FOR PROPER REINFORCING STEEL PLACEMENT SHALL BE HOT DIPI SALVANIZED.
 - IO CLAY OR CONCRETE OR ANY OTHER MATERIAL OTHER TH APPROVED CHAIRS SHALL BE USED. ONE CHAIR SAMPLE SHALL SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - ALL REINFORCING STEEL SHALL BE ADEQUATELY TIED WITH TIE WIRE SUPPORTED AS REQUIRED TO THE SPECIFIED CLEARANCE.

ECAST CONCRETE:

- HE MANUFACTURER OF THE PRECAST UNITS SHALL BE CERTIFIED BY IATIONAL PRECAST CONCRETE ASSOCIATION'S PLANT CERTIFICAT PROGRAM PRIOR TO AND DURING PRODUCTION OF THE UNITS FOR ROJECT.
- HE MANUFACTURER SHALL HAVE BEEN IN BUSINESS OF PRODUC 1ANUFACTURES PRECAST UNITS SIMILAR TO THOSE SPECIFIED FOR 1INIMUM OF 10 YEARS. THE MANUFACTURER SHALL MAINTAIN PERMANENT QUALITY CONTROL DEPARTMENT OR RETAIN AN INDEPEND ESTING AGENCY ON A CONTINUING BASIS.
- RECAST BOAT RAMP ELEMENTS SHALL BE DESIGNED TO RESIST H OADING AS WELL AS ASSOCIATED DEAD LOADS.
- RECAST BOAT RAMP UNITS SHALL BE DESIGNED WITH AN UNSUPPOR PAN OF 4' AT ANY LOCATION.
- RECAST CONCRETE UNIT SHOP DRAWINGS FURNISHED BY 1ANUFACTURER SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINE HESE DRAWINGS SHALL SHOW COMPLETE DESIGN, MEMBER DIMENSI REINFORCING DETAILS, INSTALLATION, AND CONSTRUCTION INFORMAT SUCH DETAIL AS TO ENABLE THE ENGINEER TO DETERMINE DEQUACY OF THE PROPOSED UNITS FOR THE INTENDED USE.
- EALED AND SIGNED DESIGN CALCULATIONS BY A PROFESSION ENGINEER LICENSED IN THE STATE OF CONNECTICUT SHALL BE INCLUE NITH THE SHOP DRAWING SUBMITTAL.
- PPENINGS WITHIN THE RAMP PLANKS SHALL BE FILLED WITH NON-SHR FROUT INCLUDING BUT NOT LIMITED TO THE LIFTING EYES. GROUT)PENINGS THAT ARE WITHIN THE GROOVE PATTERN SHALL BE FORM TO MATCH THE PLANK GROOVES.
- EMBEDDED ITEMS IN PRE-CAST ELEMENTS SHALL BE HOT DIPF BALVANIZED OR 316 STAINLESS STEEL UNLESS NOTED OTHERWISE.
- ONCRETE, AT A MINIMUM, SHALL MEET THE REQUIREMENTS OF CAST-IN-PLACE CONCRETE SPECIFICATION AS NOTED WITHIN THE ONSTRUCTION DRAWINGS
- CONCRETE MIX DESIGN AND BREAK TESTS FOR THE MIX SHALL SUBMITTED FOR APPROVAL.
- REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF REINFORCING STEEL SPECIFICATION AS NOTED WITHIN THE CONSTRUCTION DRAWINGS
- CONCRETE PLANKS SHALL INCLUDE TOP AND BOTTOM REINFORCEM
- CONCRETE PLANKS SHALL HAVE A GROOVE FINISH AS SPECIFIED HER CONTRACTOR SHALL PROVIDE A MOCK UP PANEL OF THE GROC INISH TO THE OWNER FOR APPROVAL PRIOR TO ORDERING PLAN HERE SHALL BE NO ADDITIONAL COST TO THE OWNER IF THE GROC PATTERN IS MODIFIED FOLLOWING REVIEW OF THE MOCK UP PANEL.
- ANY CONCRETE PLANK WHICH HAS BEEN DAMAGED DURING DELIVEI 10VING, OR INSTALLATION SHALL BE REMOVED AND REPLACED AT COST TO THE OWNER.
- RECAST UNITS SHALL NOT BE SHIPPED UNTIL THEY ARE AT LEAS DAYS OLD, UNLESS IT CAN BE SHOWN THAT THE CONCRETE STRENG IAS REACHED AT LEAST 75% OF THE SPECIFIED 28 DAY STRENGTH.
- INAL INSPECTION AND ACCEPTANCE OF THE MANUFACTURED PREC. INITS SHALL BE MADE BY THE ENGINEER OR OWNER UPON ARRIVAL HE JOBSITE.

PHALT/BITUMINOUS CONCRETE:

- 3ITUMINOUS CONCRETE PAVEMENT SHALL BE INSTALLED IN ACCORDAN NITH THE TECHNICAL PROVISIONS OF SECTION 4.06 OF CONNDOT FC 517
- 2. ALL MATERIALS SHALL MEET THE REQUIREMENTS OF SECTION M.04 CONNDOT FORM 817.

SIGNAGE:

I. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SIGNS.

55 ED	2.	SUBMITTAL SHALL INCLUDE, 2.1. SIGN MATERIAL AND COATING		
LL		2.2. DIMENSIONS AND LOCATIONS OF BRACKETS, HOLES, ETC.2.3. ATTACHMENT AND INSTALLATION MATERIALS AND METHOD.		
ST		SIGNS SHALL HAVE REFLECTIVE FACE.	COASTAL EN	NGINEERING
TE LY LS		MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE COMPLIANT WITH CONNDOT FORM 817 AND CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION CATALOG		Stratford, CT 06615 www.racecoastal.com
L5 IY, AP	FII	OF SIGNS. BERGLASS REINFORCED POLYMER (FRP) PILES/MARKER	OWNERSHIP AND CO	
55		OSTS:	Drawings and Specificati professional service, are an	
NO TE	Ι.	PILE SHALL BE FIBERGLASS REINFORCED POLYMER MATERIAL (FRP) UNLESS OTHERWISE APPROVED BY THE OWNER. PILE SHALL BE MANUFACTURED BY CMI INC., PEARSON PILINGS, OR ALTERNATE APPROVED BY OWNER.	of RACE Coastal Engineer not to be used, in whole or purposes or by any other pa by contract without the spec	ing, LLC. Documents are in part, for other projects or arties than those authorized
NG ED	2.	SUBMIT DESCRIPTIONS OF PILE DRIVING (DRIVING IS OF TEMPORARY WORK AND CASING AND NOT APPLICABLE TO FRP PILE INSTALLATION BASED ON ANTICIPATED LEDGE) AND DRILLING EQUIPMENT TO BE EMPLOYED IN THE WORK. SUBMITTAL SHALL BE APPROVED BY OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF THE WORK. DESCRIPTIVE INFORMATION INCLUDES MANUFACTURER'S NAME, MODEL NUMBERS,	RACE Coastal Engineering document is contingent upor Engineering, LLC for service shall give RACE Coastal En to bar document use by any	n payment to RACE Coastal es rendered. Non-payment gineering, LLC the authority
R		CAPACITY, RATED ENERGY, HAMMER DETAILS, CUSHION MATERIAL, HELMET, TEMPLATES, AND DRIVING SEQUENCING. FOR DRILLED SOCKET PILES SUBMIT DRILL MANUFACTURER, DRILL DIAMETER, DRILLING FLUIDS, AND METHODS TO HANDLE DRILL CUTTINGS AND ASSOCIATED DRILLING FLUIDS. SUBMIT PROPOSED METHOD FOR HANDLING PILING TO PREVENT PERMANENT DEFLECTION, DISTORTION OR DAMAGE, AND TYPE OF TRANSPORTATION VEHICLE FOR BRINGING PILES TO POINT OF INSTALLATION.	THIS DRAWING IS COREVISIONS:	
ŧ	З.	SUBMIT MANUFACTURER'S INFORMATION AND TECHNICAL DATA FOR THE FRP PILE TO BE INSTALLED.		
ED AN BE	4.	FOR EACH SHIPMENT, SUBMIT CERTIFICATES PROVIDED BY THE PILE MANUFACTURER PRIOR TO INSTALLING PILING. INCLUDE IN THE IDENTIFICATION DATA PILING TYPE, SECTION DEPTH, SECTION WIDTH, SHEET THICKNESS, AND SECTION MODULUS. THE FRP SHEET PILING CERTIFICATIONS SHALL CONSIST OF THE FOLLOWING:		
Ð		A. CHARACTERISTIC VALUE REPORT IN ACCORDANCE WITH D7290, CONTAINING NO LESS THAN 20 SAMPLES, PULLED FROM NO LESS THAN 5 INDEPENDENT MATERIAL RUNS, OVER NO LESS THAN ONE YEAR.	NOT VALID WITHOUT ENGINE	ER'S SEAL:
HE NN IS		B. CERTIFICATION THAT THE MATERIAL WAS PRODUCED IN ACCORDANCE WITH THE MANUFACTURE'S QUALITY CONTROL PLAN IN AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.	Million Con	Denhe
IG A A		C. MATERIAL CERTIFICATION INDICATING THAT THE MATERIAL BEING RECEIVED BY THE CONTRACTOR IS IN CONFORMANCE WITH THE GEOMETRIC AND MATERIAL REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.	A CIE	23764 NSED VAL ENGINE
20 ED	5.	IF REQUESTED, CONTRACTOR SHALL SUBMIT DOCUMENTATION OF STATISTICALLY-BASED MATERIAL PROPERTIES OF THE FRP FROM THE MANUFACTURER REPRESENTING THE 80 % LOWER CONFIDENCE BOUND ON THE 5TH-PERCENTILE MUST BE DEVELOPED IN ACCORDANCE WITH ASTM D7290 AND MUST CONTAIN NO LESS THAN 20 SAMPLES, PULLED FROM NO LESS THAN 5 INDEPENDENT MATERIAL RUNS, OVER NO LESS THAN ONE YEAR.	ISSUED NOT FOR CO PREPARED FOR:	
₩ R. 15,	6.	PROVIDE MATERIAL WITH 20 YEAR MANUFACTURER'S WARRANTY. SUBMIT WARRANTY INFORMATION TO THE OWNER.		
	٦.	THE CONTRACTOR, OR SUBCONRACTOR, SHALL HAVE PRIOR EXPERIENCE WITH DRIVING OR DRILLING PILING AND SHALL PROVIDE A LIST OR PREVIOUS JOB(S) THAT DEMONSTRATE A SATISFACTORY INSTALLATION METHOD. IN ADDITION, THE CONTRACTOR SHALL COORDINATE WITH THE PILE MANUFACTURER REGARDING THEIR RECOMMENDATIONS CONCERNING THE INSTALLATION AND HANDLING.	DEPT. OF PA 505 SILAS DEA	
K D D	8.	MATERIALS DELIVERED TO THE SITE SHALL BE NEW AND UNDAMAGED AND SHALL BE ACCOMPANIED BY CERTIFIED TEST REPORTS. PROVIDE THE MANUFACTURER'S NAME AND MILL IDENTIFICATION MARK ON THE PILING.		,
	ସ.	STORE AND HANDLE PILING IN THE MANNER RECOMMENDED BY THE MANUFACTURER TO PREVENT PERMANENT DEFLECTION, DISTORTION OR DAMAGE TO THE INTERLOCKS; AS A MINIMUM, SUPPORT ON LEVEL BLOCKS OR RACKS SPACED NOT MORE THAN IO FEET APART AND NOT MORE THAN 2 FEET FROM THE ENDS. STORAGE OF PILING SHOULD ALSO FACILITATE REQUIRED INSPECTION ACTIVITIES AND PREVENT DAMAGE TO COATINGS AND CORROSION PRIOR TO INSTALLATION.		BOAT RAMP
3E	10.	ALL PILING SHALL BE MANUFACTURED ENTIRELY FROM A RIGID, HIGH IMPACT, UV-INHIBITED, WEATHERABLE FIBERGLASS REINFORCED POLYMER. ALL EXPOSED SURFACES OF THE PILING SHALL BE UV RESISTANT.	COVE	PARK ELD, CT 06109
5E	11.	PILING SHALL BE FULL-LENGTH SECTIONS OF THE DIMENSIONS SHOWN. SPLICING OF PILING SHALL NOT BE ALLOWED.		
NT IN.	12.	PROVIDE FABRICATED SECTIONS CONFORMING TO THE REQUIREMENT AND THE PILING MANUFACTURER'S RECOMMENDATIONS FOR FABRICATED SECTIONS.	DRAWING:	
/E(S). /E (Y).	13.	 AT A MINIMUM THE FOLLOWING PILING PROPERTIES SHALL BE MET. A. THICKNESS 0.25 INCH; FOR IO INCH DIAMETER B. SECTION MODULUS OF 18.2 IN³; FOR IO INCH DIAMETER ULTIMATE BENDING MOMENT OF 36 FOOT-KIP; FOR IO INCH DIAMETER 		
10	14.	THE PILING SHALL BE CHARCOAL IN COLOR. COLOR SAMPLES TO BE APPROVED BY THE OWNER.		T NOTES
TH ST	15.	PROVIDE METAL PLATES, SHAPES, BOLTS, NUTS, RIVETS AND OTHER APPURTENANT FABRICATION AND INSTALLATION MATERIALS CONFORMING TO MANUFACTURER'S STANDARDS AND TO THE REQUIREMENTS SPECIFIED IN THE PROJECT NOTES AND DRAWINGS.	(1 C	of 2)
Ϋ́	16.	PILINGS SHALL BE INSTALLED TO DEPTHS SHOWN AND SHALL EXTEND UP TO THE ELEVATION INDICATED FOR THE TOP OF PILINGS.		
Œ		 I6.I. BASED ON SUBSURFACE CONDITIONS OBSERVED IN BORINGS, IT IS ANTICIPATED THAT PILES SHALL BE INSTALLED BY DRILLING 	Designed By:	Date:
λ Μ	דן	INTO ROCK. PILES SHALL NOT BE DRIVEN ON ROCK. ANY EXCAVATION REQUIRED WITHIN THE AREA WHERE PILINGS ARE TO	Drawn By:	1/21/2019 Scale:
ΟF		BE INSTALLED SHALL BE COMPLETED PRIOR TO PLACING SHEET PILINGS.	CLW Checked By:	Project Number:
		FOR CONTINUATION, SEE DRAWING 3	CAD File:	2018105 Drawing No.:
			CAD FIIE: 2018105 COVE PARK BOAT RAMP_IFB.DWG	

∠ of 9

PROJECT NOTES (continuation)

FIBERGLASS REINFORCED POLYMER (FRP) PILES/MARKER 17. CONTRACTOR SHALL PROTECT EXCAVATION BOTTOMS **POSTS CONTINUED FROM DRAWING 2:**

- 18. PILINGS SHALL BE CAREFULLY LOCATED AS SHOWN. PILINGS SHALL BE PLACED PLUMB WITH:
- A. OUT-OF-PLUMBNESS NOT EXCEEDING 1/8 INCH PER FOOT OF LENGTH AND TRUE TO LINE.
- B. PLACE THE PILE SO THE FACE WILL NOT BE MORE THAN 6 INCHES BACKFILL: FROM VERTICAL ALIGNMENT AT ANY POINT. C. TOP OF PILE AT ELEVATION OF CUT-OFF SHALL BE WITHIN 1/2 INCH
- HORIZONTALLY AND 2 INCHES VERTICALLY OF THE LOCATION INDICATED.
- D. MANIPULATION OF PILES TO FORCE THEM INTO POSITION WILL NOT BE PERMITTED.
- 19. PERFORM CONTINUOUS INSPECTION DURING PILE INSTALLATION. INSPECT ALL PILES FOR COMPLIANCE WITH TOLERANCE REQUIREMENTS. BRING ANY UNUSUAL PROBLEMS WHICH MAY OCCUR TO THE ATTENTION OF THE 3. BACKFILLING ACTIVITIES SHALL BE COMPLETED AS PRO OWNER AND ENGINEER.
- 20. SUBMIT RECORDS OF THE COMPLETED PILING INSTALLATION OPERATIONS: 4. THE GRADATION REQUIREMENTS HEREIN DO NOT APPLY
- THE FORMAT FOR DRIVING RECORDS SHALL BE SUBMITTED AND Α. APPROVED BY THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.
- B. RECORDS SHALL INCLUDE: • A SYSTEM OF IDENTIFICATION WHICH DENOTES THE LOCATION OF APPROVED PILING IN THE WORK, • DRILLING EQUIPMENT PERFORMANCE DATA INCLUDING TYPE AND
 - SIZE OF DRILL AND RATE OF OPERATION • TOTAL DRILLING TIME
 - DRIVING BLOWS PER FOOT OF PENETRATION (FOR TEMPORARY CASING)
 - FINAL DRIVING RESISTANCE IN BLOWS FOR THE FINAL 6 INCHES (FOR TEMPORARY CASING).
 - PILING DIMENSIONS, SECTION TYPE • TOP AND BOTTOM TIP ELEVATIONS OF INSTALLED PILING.
 - CUT OFF ELEVATION
 - ANY UNUSUAL DRIVING/DRILLING CONDITIONS OBSERVED AND PROBLEMS ENCOUNTERED DURING DRIVING
 - DEPTH AND ELEVATION TO MUDLINE, TOP OR ROCK, AND BOTTOM OF HOLE.
 - OTHER PERTINENT INFORMATION DEEMED USEFUL BY THE CONTRACTOR OR REQUESTED BY THE OWNER PRIOR TO INSTALLATION
- 21. PRIOR TO INSTALLATION, MARK AND NUMBER EACH PILE IN MINIMUM OF ONE FOOT INCREMENTS. PAINT SHALL BE NON-PERMANENT.
- 22. PILE TOP SHALL BE PROTECTED FROM DAMAGE FROM JAWS AND LOCK ATTACHMENTS OF ANY HAMMER OR RIGGING TYPE USED TO LIFT AND PLACE PILES.
- 23. PILINGS INSTALLED TO SPECIFIED TIP ELEVATION OR LOWER, AND ARE EXTENDING ABOVE THE REQUIRED TOP ELEVATION IN EXCESS OF THE SPECIFIED TOLERANCE SHALL BE CUT OFF TO THE REQUIRED ELEVATION. PILINGS SHALL NOT BE INSTALLED BELOW THE REQUIRED TOP ELEVATION.
- 24. CUT HOLES IN PILINGS FOR BOLTS, RODS, SIGNS, OR UTILITIES IN A NEAT AND WORKMANLIKE MANNER, AS SHOWN OR AS DIRECTED. USE A STRAIGHT EDGE IN CUTS AND AVOID ABRUPT NICKS. BOLT HOLES IN FRP PILING SHALL BE DRILLED BY APPROVED METHODS WHICH WILL NOT IO. BEFORE COMPACTING, THE CONTRACTOR SHALL MOISTEN OR AERATE SOIL BORING LOGS: DAMAGE THE PILE. HOLES OTHER THAN BOLT HOLES SHALL BE REASONABLY SMOOTH AND THE PROPER SIZE FOR RODS AND OTHER ITEMS TO BE INSERTED. ALL HOLES AND CUTS SHALL BE MADE IN II. THE DRY DENSITY OF EACH LAYER OF BACKFILL AFTER COMPACTION ACCORDANCE WITH MANUFACTURER'S GUIDELINES.

EXCAVATION:

- 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 13. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT SPECIFIC INSTRUCTION FROM THE ENGINEER.
- 3. ALL EXCAVATIONS SHALL BE PROTECTED WITH SEDIMENTATION AND 14. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET T 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 SEPARATE STOCK PILE AREAS AS APPROPRIATE TO ACCOMMODATE THE DIFFERENT TYPES OF MATERIALS IF PRESENT. SEE CONTROLS SHALL BE INSTALLED AROUND ALL STOCK PILE AREAS.
- 7. EXCAVATION AND BACKFILL ACTIVITIES SHALL BE COMPLETED IN A MANNER AND SEQUENCE THAT WILL PROVIDE PROPER DRAINAGE AT ALL I. THE GEOTEXTILE FABRIC SHALL BE MANUFACTURED WITH FIBER TIMES.
- 8. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXCAVATING, REMOVING, TRANSPORTING AND PLACING OR DISPOSING OF THE EXCAVATED MATERIAL.
- 9. THE CONTRACTOR WILL BE RESPONSIBLE FOR MANAGING THE REMOVED 2. WOVEN SLIT FILM GEOTEXTILE (I.E., GEOTEXTILE MADE FROM YARNS OF MATERIAL.
- IO. SLOPE EXCAVATIONS AS NECESSARY TO MAKE SLOPES SAFE IN 3. GEOTEXTILE SHALL MEET OR EXCEED THE FOLLOWING: ACCORDANCE WITH THE APPROPRIATE REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH SAFETY LAWS AND REGULATIONS FOR EXCAVATION.
- II. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.
- 12. CONTRACTOR IS RESPONSIBLE FOR PROVIDING QUALIFIED PERSONNEL TO MEET THE REQUIREMENTS OF OSHA DEFINED 'COMPETENT PERSON'.
- 13. CONTRACTOR SHALL PROVIDED SHORING AND BRACING WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF THE MATERIALS BEING EXCAVATED.
- 14. CONTRACTOR SHALL PROVIDE MATERIALS FOR SHORING AND BRACING AS MAY BE NECESSARY FOR SAFETY OF PERSONNEL, PROTECTION OF 6. FABRIC SHALL BE DELIVERED IN ROLLS AS SUPPLIED BY THE WORK, AND COMPLIANCE WITH REQUIREMENTS OF GOVERNMENT AGENCIES HAVING JURISDICTION.
- 15. CONTRACTOR SHALL MAINTAIN SHORING AND BRACING IN EXCAVATIONS STORAGE, AND PROTECTED TO ASSURE NO DAMAGE TO THE MATERIALS REGARDLESS OF THE TIME PERIOD EXCAVATIONS WILL BE OPEN.
- 16. THE CONTRACTOR SHALL CONSTRUCT SHORING AND BRACING AS EXCAVATION PROGRESSES.

- FREEZING WHEN AMBIENT ATMOSPHERIC TEMPERATURE REMA THAN 35 DEGREES F FOR MORE THAN FOUR CONSECUTIVE HO ANTICIPATED TO BE LOWER THAN 35 DEGREES F DURING NO HOURS SUCH AS OVERNIGHT, WEEKENDS, OR HOLIDAYS.
- 18. DISTURBED OR DAMAGED AREAS CAUSED BY THE CONTRACT BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION.

PASS #200

- AS IDENTIFIED WITHIN THE DRAWINGS, PLACE ACCEPT, MATERIAL IN LAYERS TO THE REQUIRED ELEVATIONS.
- 2. CONTRACTOR SHALL COMPLETE ALL BACKFILLING AND CO OPERATIONS IN A CAREFUL AND CONTROLLED MANNER, DAMAGING STRUCTURES.
- PROGRESS OF WORK PERMITS.
- PRODUCED FROM ONSITE EXCAVATIONS AND SUBSEQUENTL ONSITE PROVIDED THAT SUCH SOIL IS PLACED NO CLOSE INCHES FROM THE FINAL SURFACE. HOWEVER SUCH ONSITE SHALL MEET COMPACTION REQUIREMENTS AND SHALL BE PLA WITHIN DESIGNATED UPLAND AREAS.
- 5. MIXING OF EXCAVATED MATERIAL WITH FREE-DRAINING MA MEET THE REQUIRED GRADATION REQUIREMENTS IS ACCEPTABLE
- 6. BACKFILL SHALL CONSIST OF GRADING, PLASTICITY, RESIS ABRASION, AND SOUNDNESS REQUIREMENTS FOR GRANULAR IN ACCORDANCE WITH SUB-ARTICLE M.02.06, GRADING A OF OF CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND CONSTRUCTION FORM 817:

PASS 3-½" IOO PASS 1-½" 55-IOO PASS ¼" 25-60 PASS #IO I5-45 PASS #40 5-25 PASS #IOO O-IO	SQUARE MESH SIEVES	PERCENT PASSING BY WEIG
	PASS I-½" PASS ¼" PASS #IO PASS #IO	55-1 <i>00</i> 25-60 15-45 5-25

0-5

- BACKFILL MATERIAL PLACED BELOW WATER SHALL CO MATERIAL MEETING NO. 3 OR NO. 4 COARSE AGGE ACCORDANCE WITH SUB-ARTICLE M.OI.02-2 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND CONSTRUCTION FORM 817. A GEOTEXTIE FILTER FABRIC PLACED ALL AROUND THE CRUSHED STONE.
- 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.
- EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT.
- SHALL NOT BE LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T 180, METHOD
- 12. WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST B MOISTURE-CONDITIONED BEFORE COMPACTING, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL TO PREVEN FREE WATER APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTING OPERATIONS.
- IS TOO WET TO PERMIT COMPACTING TO THE SPECIFIED DENSITY.
- PERMIT COMPACTING MAY BE STOCKPILED OR SPREAD AND ALLOWEI TO DRY. ASSIST DRYING BY DICING, HARROWING, OR PULVERIZING UNTI MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE AS DETERMINED BY MOISTURE DENSITY RELATION TESTS REVIEWED BY THE ENGINEER.
- 15. EACH LIFT SHALL BE COMPACTED BY A MECHANICAL RAMMER OF VIBRATORY PLATE. CONTRACTOR SHALL SUBMIT COMPACTION EQUIPMEN TO ENGINEER AND OWNER FOR APPROVAL. ENGINEER MAY REDUCE LIF THICKNESS BASED ON PROPOSED COMPACTION EQUIPMENT. CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF PASSES TO DEMONSTRAT THAT THE CRUSHED STONE IS NOT SETTLING UNDER CONTINUED COMPACTION EFFORT, AND IN NO CASE LESS THAN 4 PASSES.

GEOTEXTILE FABRIC:

- CONSISTING OF LONG-CHAIN SYNTHETIC POLYMERS COMPOSED OF A LEAST 95 PERCENT BY WEIGHT OF POLYOLEFINS OR POLYESTERS. THE SHALL FORM A STABLE NETWORK SUCH THAT THE FILAMENTS OR YARN RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER INCLUDING SELVAGES.
- FLAT, TAPE-LIKE CHARACTER) SHALL NOT BE ALLOWED.

TENSILE STRENGTH	ASTM D-4632	75X375 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
APPARENT OPENING SIZE	ASTM D-4751	50 US SIEVE
UV RESISTANCE @ 500 HRS	ASTM D-4355	70%

- 4. FABRIC SHALL HAVE A MINIMUM OVERLAP FOR ENCLOSURES O
- 5. CONTRACTOR SHALL HAVE THE PROPER EQUIPMENT TO DELIVE AND INSTALL THE FILTER FABRIC.
- MANUFACTURER, AND PROTECTED FROM DAMAGE DURING HANDLING.
- 7. FABRIC ROLLS SHALL BE STORED OFF THE GROUND IN WEATHER-TIGH

15 AGAINST 1AINS LOWER	EF	ROSION & SEDIMENTATION CONTROLS:
HOURS OR IS ION-WORKING	١.	CONTRACTOR SHALL PROTECT FROM DISTURBING OR DAMAGING WETLAND AREAS ADJACENT TO WORK AREA.
CTOR SHALL	2.	A CONSTRUCTION FENCE SHALL BE PLACED AROUND WETLAND AREAS PRIOR TO DEMOLITION AND MAINTAINED THROUGHOUT THE LENGTH OF THE PROJECT.
	З.	LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM
TABLE SOIL	4.	WHENEVER POSSIBLE, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
COMPACTION R, AVOIDING	5.	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", LATEST EDITION.
ROMPTLY AS		
	6.	ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
LY TO SOIL TLY PLACED BER THAN 12 TE MATERIAL	٦.	ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS NECESSARY AND REQUIRED.
LACED ONLY	8.	THE CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
1ATERIAL TO BLE.		
BISTANCE TO	9.	THE CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE (300' MIN.) ON SITE FOR EMERGENCY PURPOSES.
BACKFILL - F THE STATE STANDARD INCIDENTAL	10.	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 (I LB PER 1,000 SQ. FT.).
I <i>G</i> HT	11.	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.

ONSIST	ОF
REGATE	IN
STATE	ОF
STANDA	١RD
INCIDEN	TAL
SHALL	ΒE

I. FOR APPROXIMATE BORING LOCATIONS, SEE DRAWING 4.

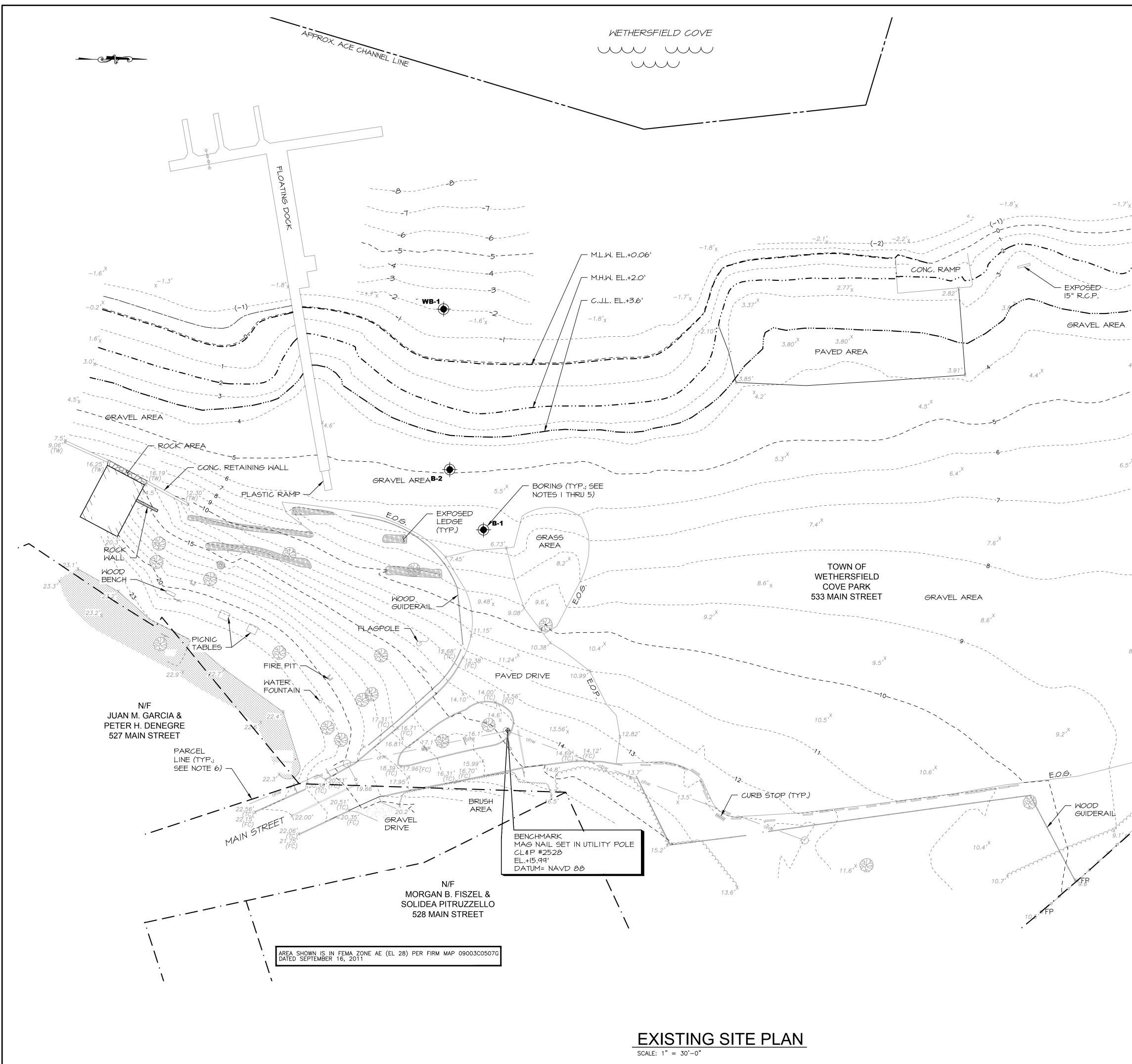
She	Fox Hun Iton, C7	0648					ENT:		RACI	3			HOLE NO. WB-1	
CON	NTRACT	OR				PRC	JECT N	0.	R-	208	LINE			
FOR	EMAN-	-DRIL	LER			PRC	JECT N		nersfield C	ove Boat F	lamp		STATION	
INS Hail	PECTOR					LOC	CATION				ersfield (T	OFFSET	
	DUND W	ATER	OBSER	VATIO	ONS				Casing	Sam	pler	Core Bar	Date Start <u>10/12/18</u> Date Fin. <u>10/12/18</u>	
	N/A_FT					S Size			FJ 3"	SS 1 3/			Surface Elev. Existing ground.	
AT .	FT	. AF	TER]	HOURS		nmer Wt. nmer Fall			14		BIT	Ground Water Elev.	
ţ	Casing Blows			Sampl	P	•	1	Per 6" on on Tube)	Sampler	1	Strata Change Depth		Field Identification of Soil. Remarks Incl. Colo Loss of Wash Water, Seams in Rock, Etc.	
Depth	per Foot	No	Туре	Pen	Rec	Depth @ Bot	0-6	6-12	12-18	18 - 24			LUSS OF WASH WARE, SEAMS IN ROCK, Efc.	
			SS	2.0	1.5	2.0	woh	woh	woh	woh		Gray orga	nic silt little fine sand	
				1 2.0	1.5	2.0		- mon		won				
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5				1	1		1							
		2	SS	2.0	1.5	7.0	1	0	1	0	7.5			
											8.5		n f/m sand and silt some gravel	
10		3	SS	2.0	1.5	9.0	2	10	47	100	9.0	Weathered	1 rock	
10												Refusal		
										2		-		
15														
20													×	
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	per Foot	No	Туре	Pen
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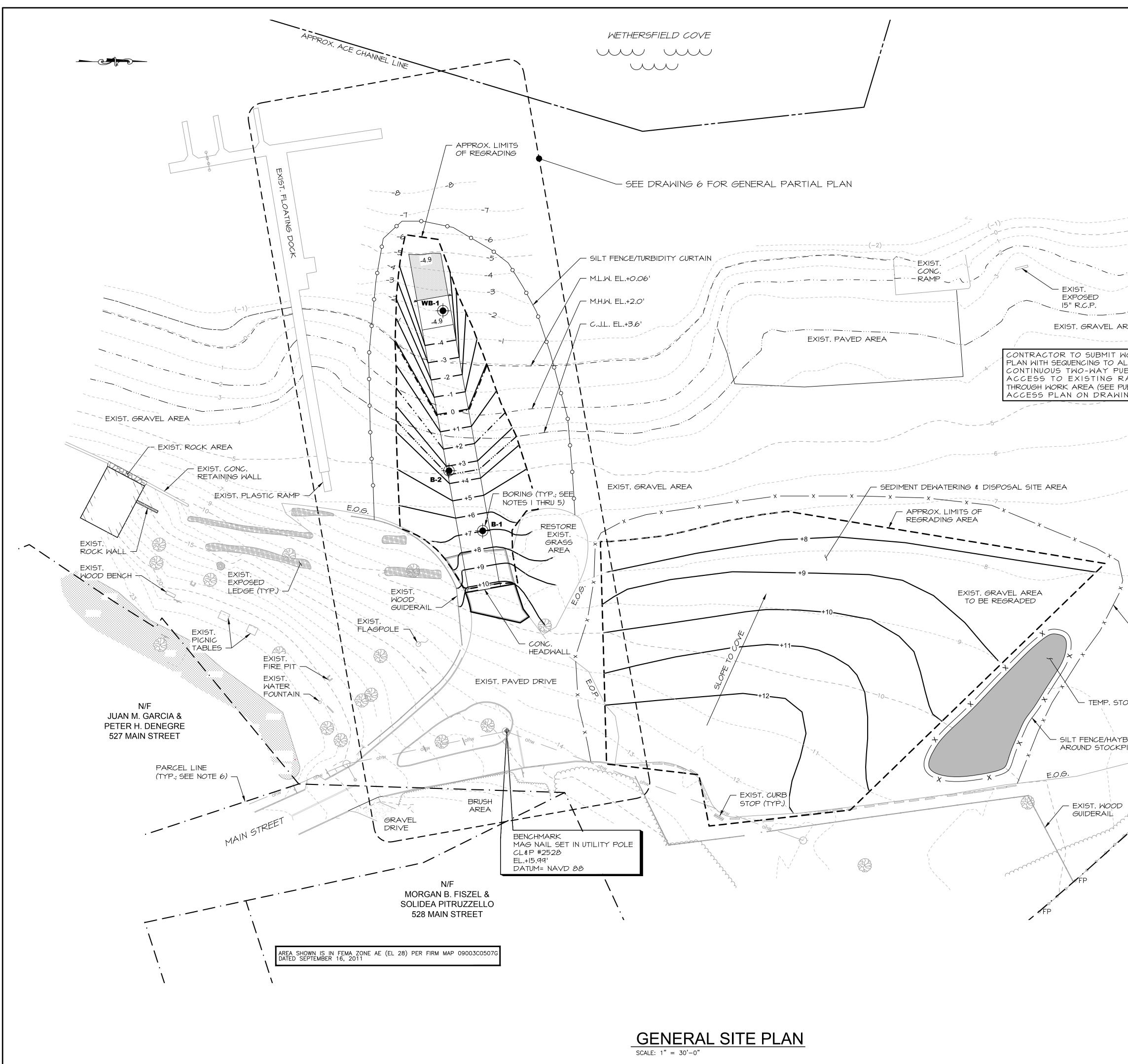
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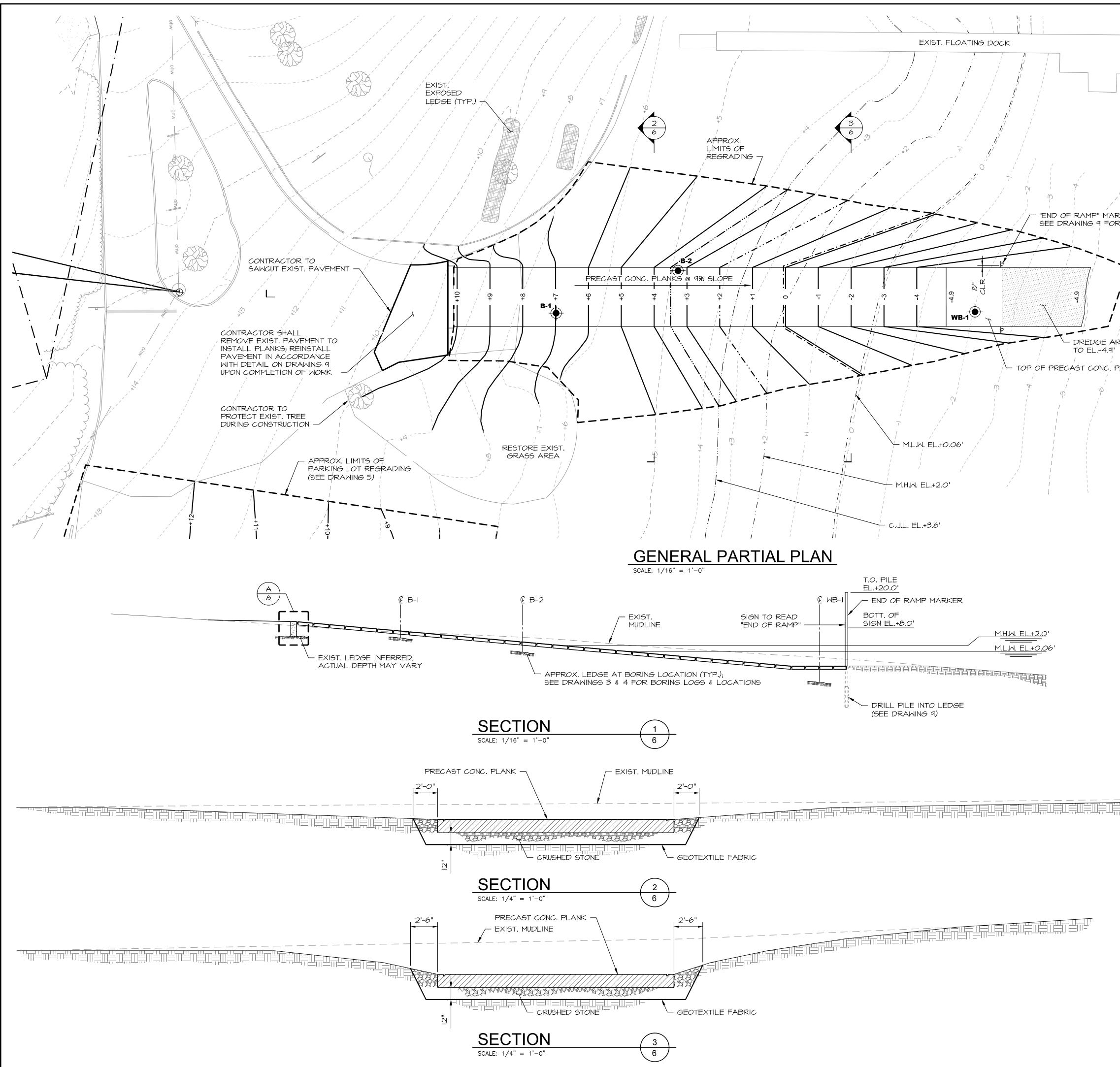
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S DURS	Type			Casing HSA	Sam	S	Core Bar	Date Start <u>10/02/18</u> Date Fin. <u>10/02/18</u> Surface Elev. Existing ground.	-	
URS	1	mer Wt.		3 1/4"	13/	0	BIT	Ground Water Elev.	611 Access Road	
	Ham	mer Fall Blows I	Per 6" on	Sampler	30	Strata		Field Identification of Soil. Remarks Incl. Color, Loss of Wash Water, Seams in Rock, Etc.	Tel: 203-377-0663 v	www.racecoastal.com
Rec	Depth (a) Bot	(Force of 0-6	on Tube) 6-12	12-18	18 - 24	Depth		Loss of Wash Water, Seams in Rock, Etc.	OWNERSHIP AND CO	NDITIONS OF USE:
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	LOC	JECT N. ATION Wet	AME Weth	R- hersfield C d Cove Casing	208 Cove Boat F Weth	ersfield C	F. Core Bar	HOLE NO. B-2 LINE STATION	DEPT. OF PA 505 SILAS DEA	RKS & REC. NE HIGHWAY
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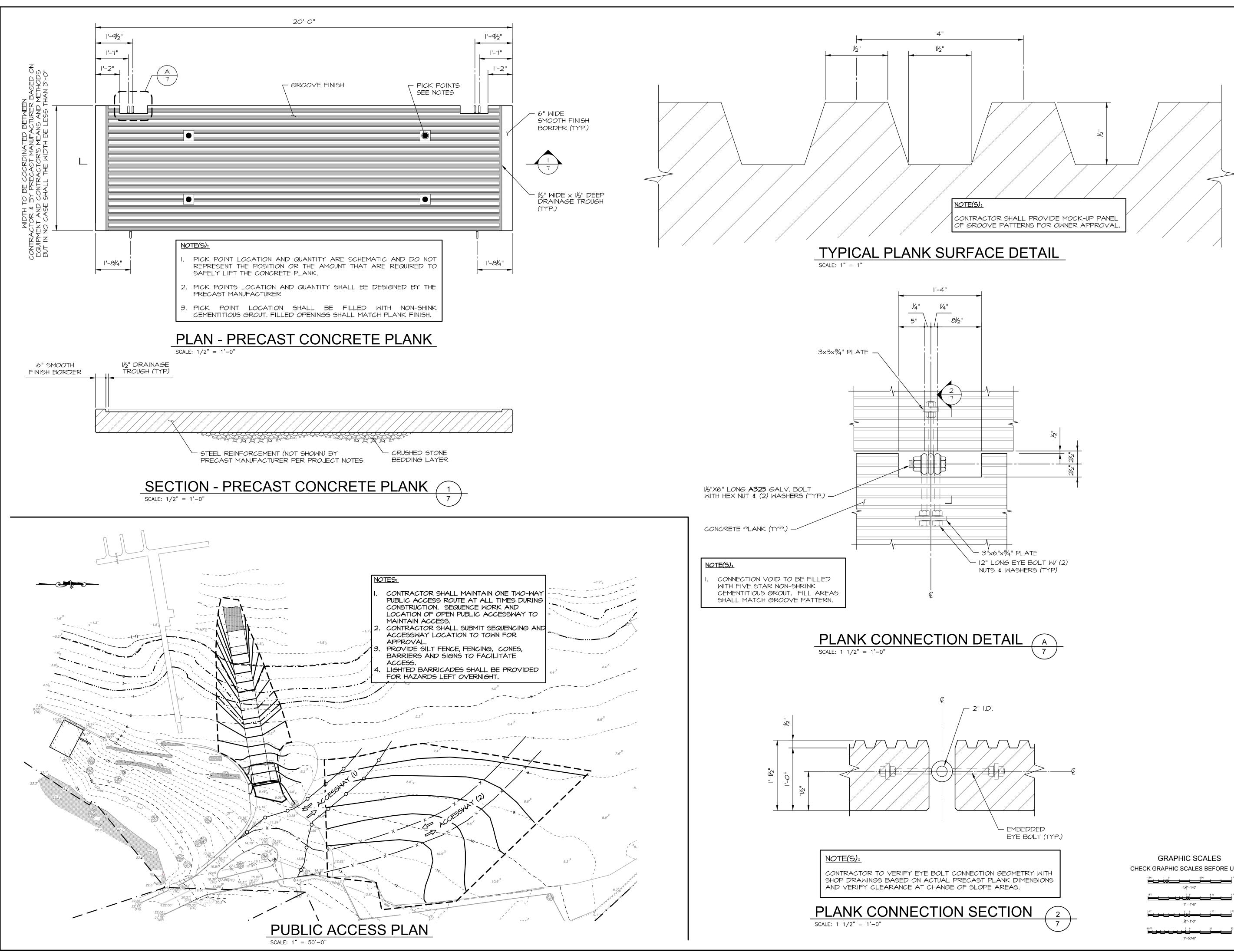
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2. BORINGS COMPLETED OCTOBER 2 AND 12, 2018.					
3. BORINGS MADE BY HARDIMAN CO. & ASSOCIATES INC. AND					
OBSERVED BY RACE.					
4. ACTUAL SUBSURFACE CONDITIONS WILL VARY AND					
TRANSITION BETWEEN BORING LOCATIONS.	Designed		Date:		
5. SEE DRAWING 3 FOR BORING LOGS.		ARJ		/21/2019	
6. PARCEL LINES BASED ON ASSESSOR MAP AND ARE	Drawn B		Scale:		
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	611 Access Road Stratford, CT 06615				
	Tel: 2	203-377-0663	www.raceco	pastal.com	
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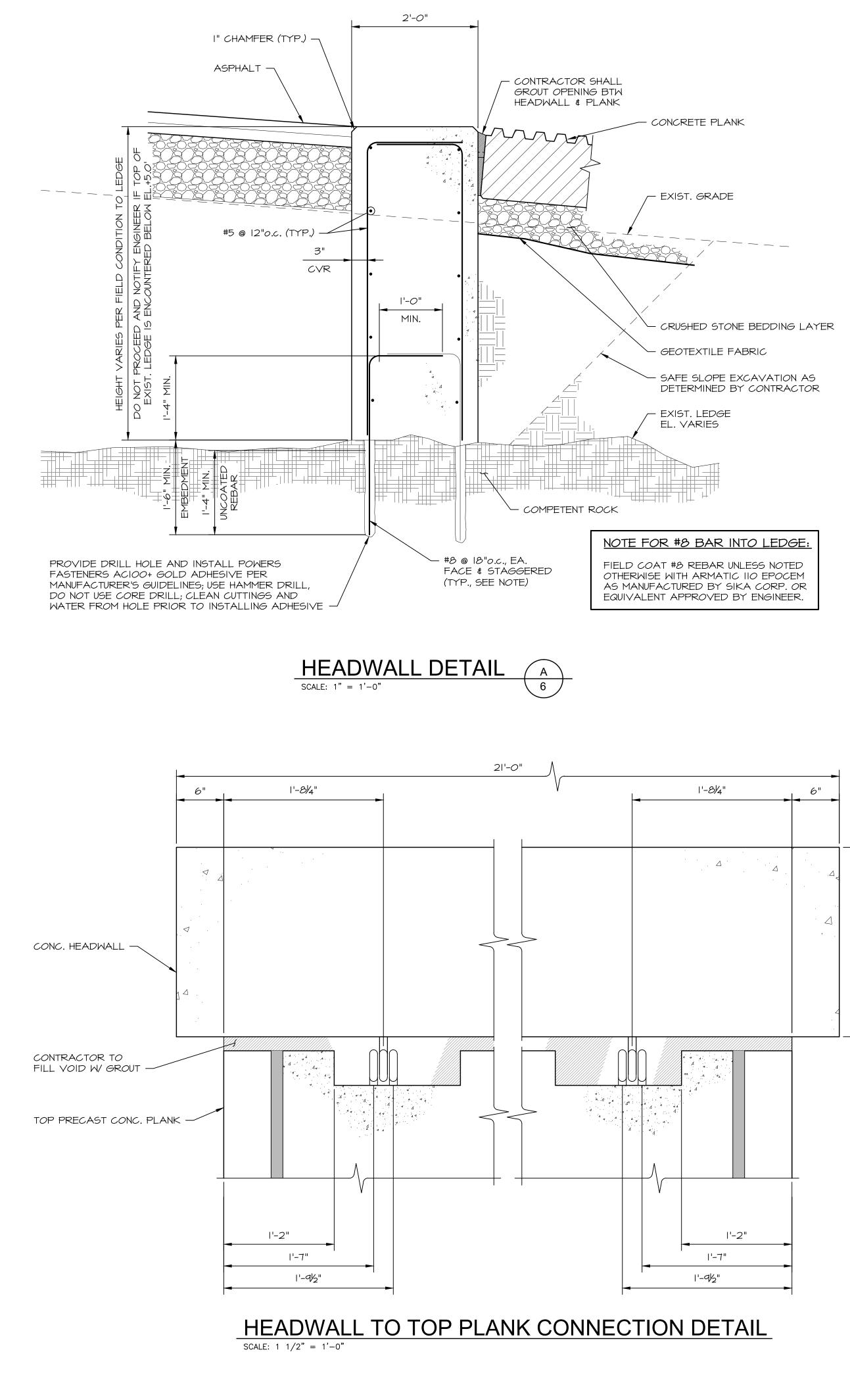


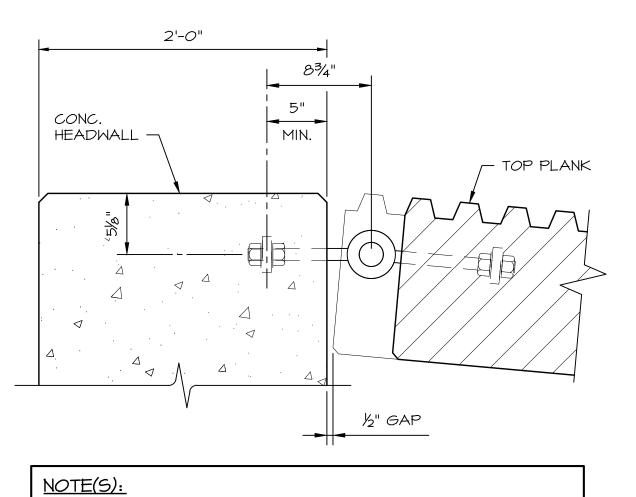
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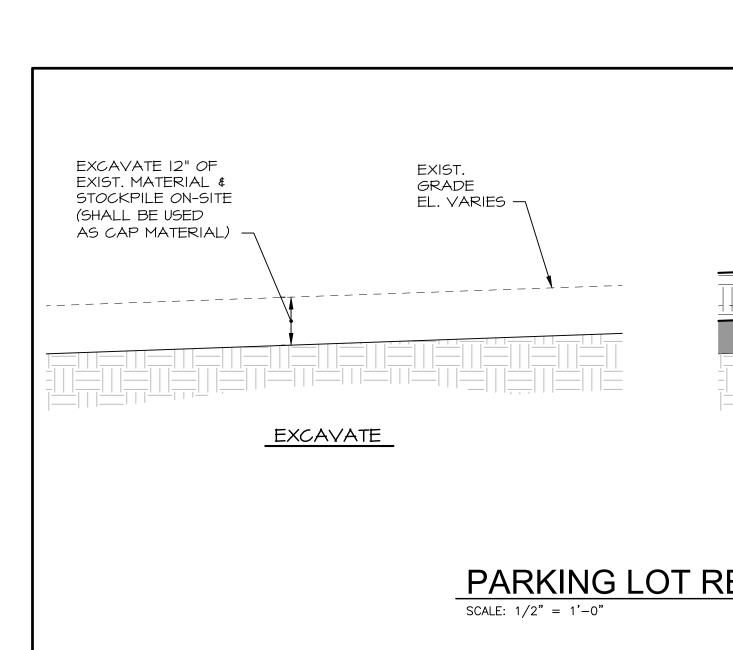




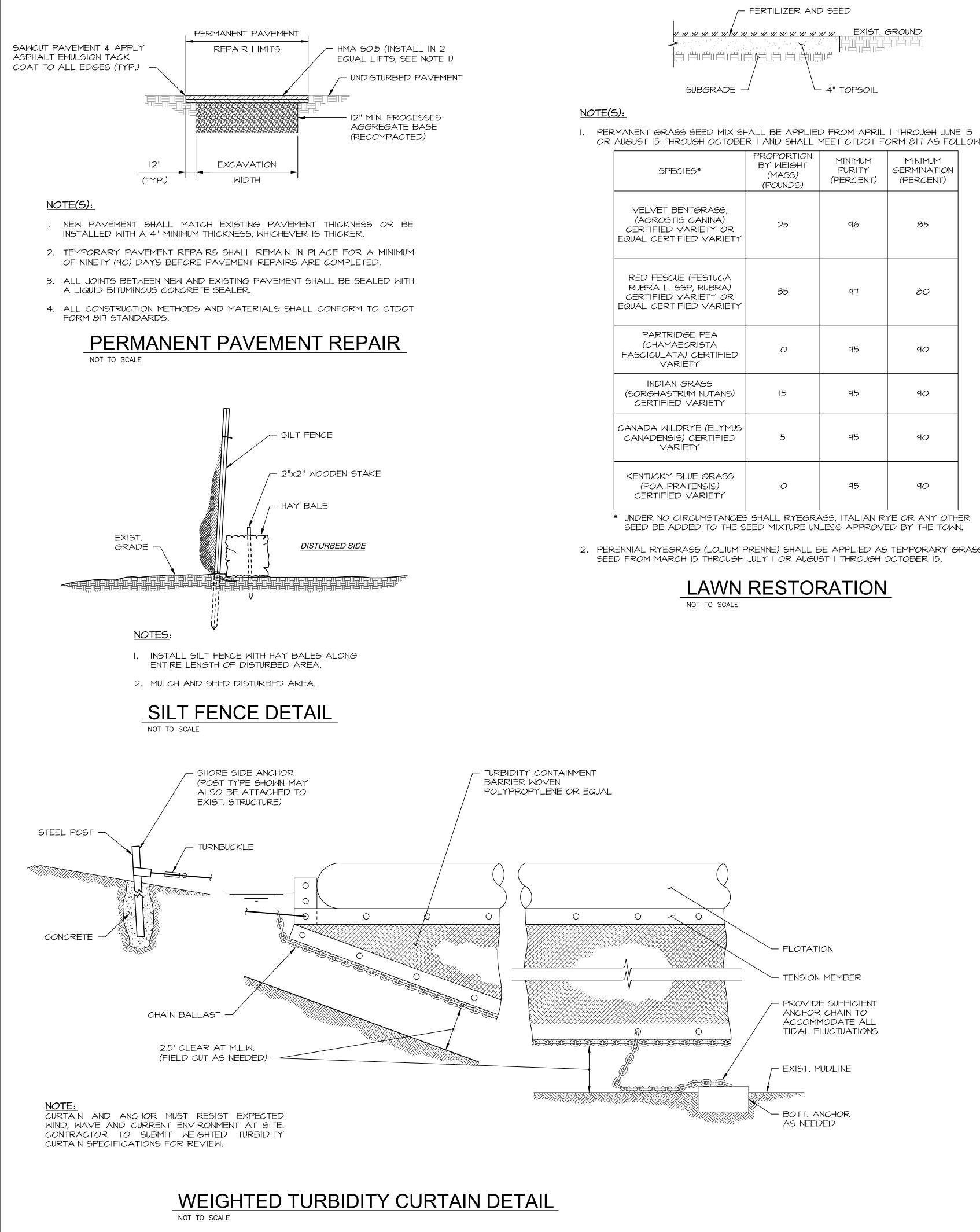


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	611 A Tel: 2	ASTAL EN ACCESS Road 203-377-0663	Stratford, (www.raceco	CT 06615 bastal.com
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EXIST. GROUND

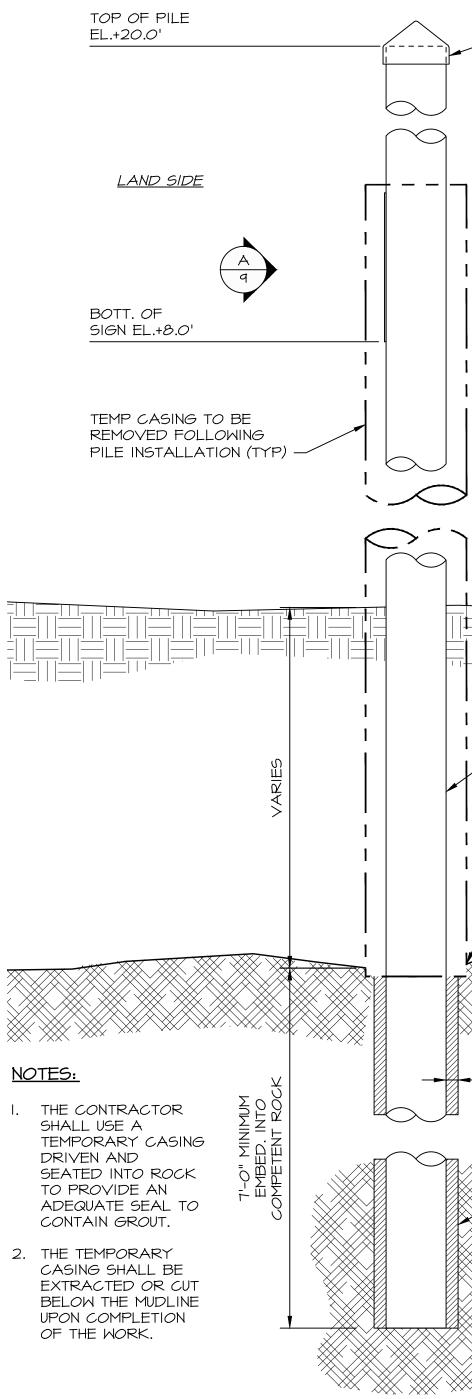
OR AUGUST 15 THROUGH OCTOBER I AND SHALL MEET CTDOT FORM 817 AS FOLLOWS:

SPECIES*	PROPORTION BY WEIGHT (MASS) (POUNDS)	MINIMUM PURITY (PERCENT)	MINIMUM GERMINATION (PERCENT)
VELVET BENTGRASS, (AGROSTIS CANINA) CERTIFIED VARIETY OR EQUAL CERTIFIED VARIETY	25	96	85
RED FESCUE (FESTUCA RUBRA L. SSP, RUBRA) CERTIFIED VARIETY OR EQUAL CERTIFIED VARIETY	35	97	80
PARTRIDGE PEA (CHAMAECRISTA FASCICULATA) CERTIFIED VARIETY	10	95	90
INDIAN GRASS (SORGHASTRUM NUTANS) CERTIFIED VARIETY	15	95	90
CANADA WILDRYE (ELYMUS CANADENSIS) CERTIFIED VARIETY	5	95	90
KENTUCKY BLUE GRASS (POA PRATENSIS) CERTIFIED VARIETY	10	95	90

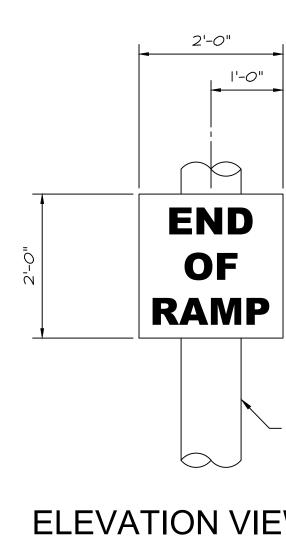
* UNDER NO CIRCUMSTANCES SHALL RYEGRASS, ITALIAN RYE OR ANY OTHER SEED BE ADDED TO THE SEED MIXTURE UNLESS APPROVED BY THE TOWN.

2. PERENNIAL RYEGRASS (LOLIUM PRENNE) SHALL BE APPLIED AS TEMPORARY GRASS SEED FROM MARCH 15 THROUGH JULY I OR AUGUST I THROUGH OCTOBER 15.

LAWN RESTORATION



DRILLED MARKER PIL SCALE: 3/4" = 1'-0"



SCALE: 3/4" = 1'-0"

PROVIDE CAP (TYP.)		R			E
WATER SIDE		611 A	ASTAL EN Access Road 203-377-0663	Stratford,	CT 06615
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