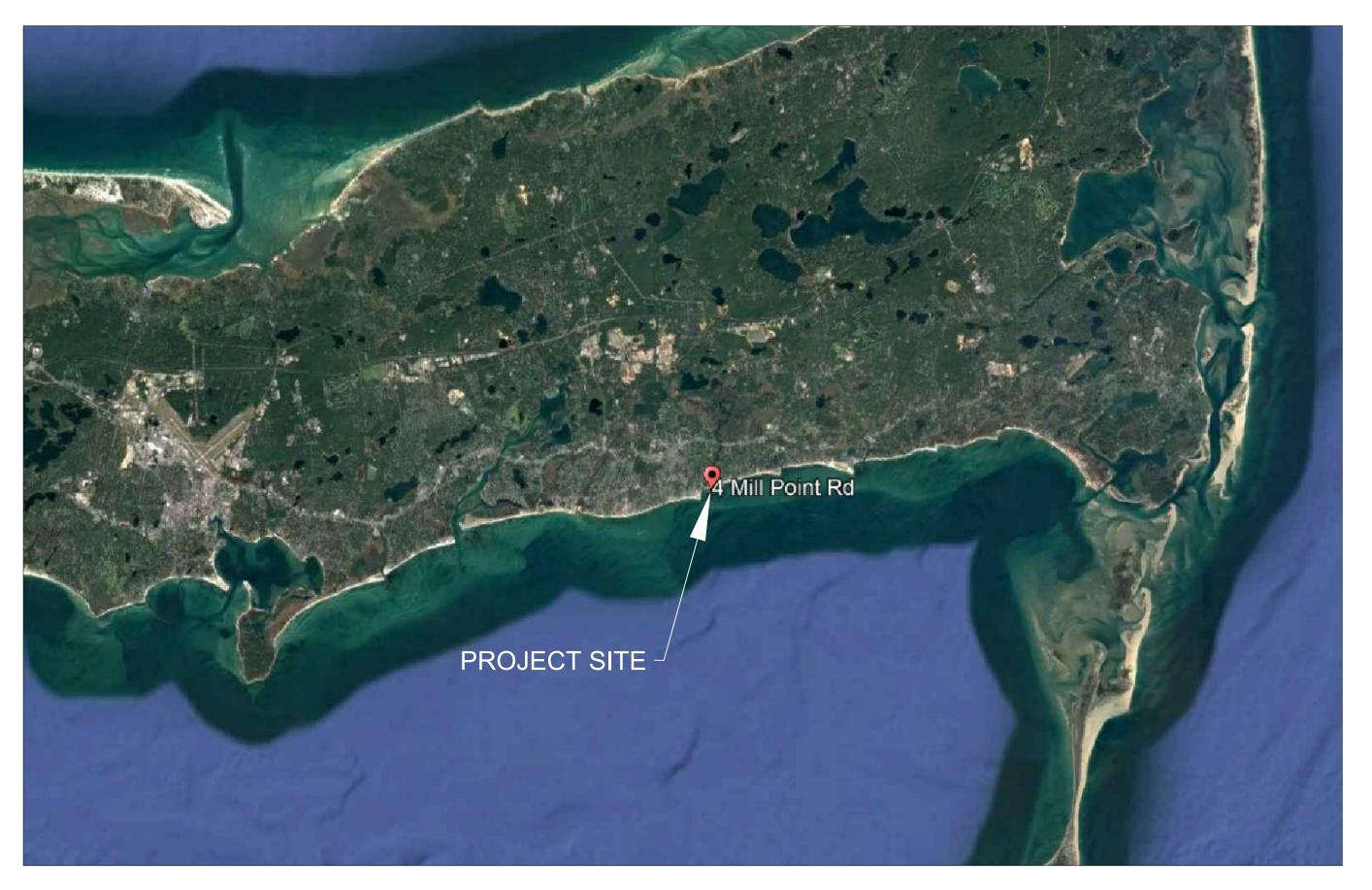
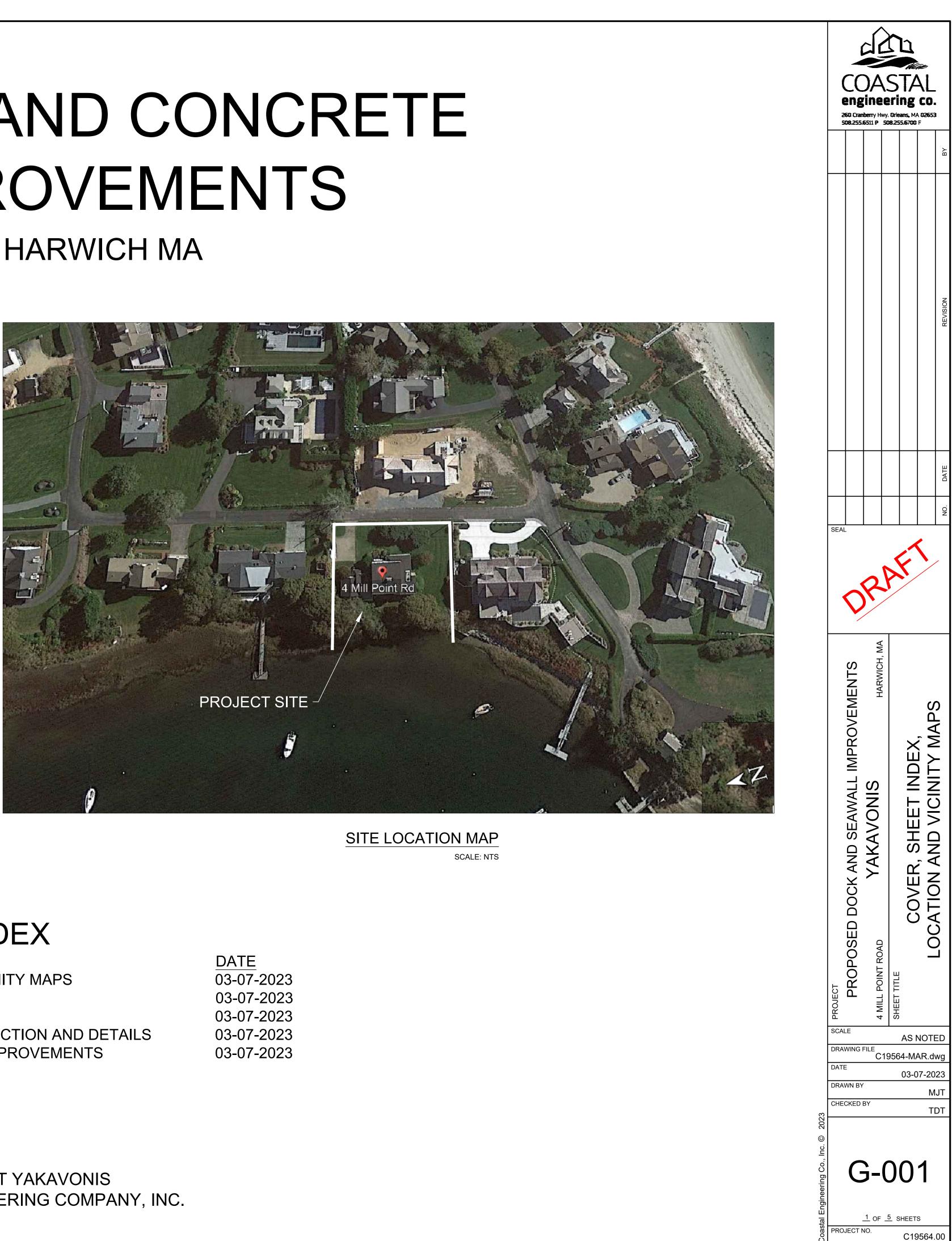
PROPOSED DOCK AND CONCRETE SEAWALL IMPROVEMENTS 4 MILL POINT ROAD, HARWICH MA



SITE VICINITY MAP

SCALE: N.T.S.

SHEET	DE
G-001	CO
G-002	GE
C-101	OV
C-102	PR
C-103	PLA



SHEET INDEX

SCRIPTION OVER, SHEET INDEX, LOCATION & VICINITY MAPS ENERAL NOTES, LEGEND AND DATUM VERALL SITE PLAN ROPOSED DOCK PLAN VIEW, CROSS SECTION AND DETAILS AN SHOWING CONCRETE SEAWALL IMPROVEMENTS

PREPARED FOR: VINCENT YAKAVONIS PREPARED BY: COASTAL ENGINEERING COMPANY, INC.

1.	THE PROJECT IS LOCATED IN THE TOWN OF HARWICH, MA ALONG HERRING RIVER AND IS REFERENCED BY:		
	ASSESSORS MAP 1 PARCEL J1-96	1.	FRAMING AND SUI
2.	THE VERTICAL DATUM IS IN U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED UPON THE HEXAGON SMARTNET RTK NETWORK.	2.	THE FRA
3.	THE EXISTING CONDITION PLAN IS THE RESULT OF AN INSTRUMENT SURVEY PERFORMED BY COASTAL ENGINEERING COMPANY ON APRIL 1, 2021 AND HYDROGRAPHIC SURVEY PERFORMED ON MARCH 14, 2022.		GRADE
4.	EXISTING UTILITIES, UNDERGROUND AND OVERHEAD, MAY EXIST IN ADDITION TO THE UTILITY INFORMATION SHOWN ON THESE PLANS. THIS PLAN MUST NOT BE USED TO LOCATE UNDERGROUND UTILITIES. CALL DIG SAFE AT 811 AND APPROPRIATE TOWN UTILITY OFFICES PRIOR TO STARTING ANY EXCAVATION.		TI
5.	THE SUBJECT PREMISES AS SHOWN LIES WITHIN FLOOD ZONE VE(EL. 13), ZONE AE(EL. 13) AND ZONE X, AS INDICATED ON FLOOD INSURANCE RATE MAP NUMBER 25001C0611J FOR BARNSTABLE COUNTY MASSACHUSETTS WITH AN EFFECTIVE DATE OF JULY 16, 2014.		MEM
5.	THE PROPERTY LINES SHOWN ARE APPROXIMATE ONLY. THEY ARE A GRAPHICAL REPRESENTATION OF THE GENERAL LOT CONFIGURATION LIMITED TO THE AREA OF WORK AND HAVE NOT BEEN DETERMINED BY A REGISTERED PROFESSIONAL LAND SURVEYOR. THEREFORE THEY SHOULD NOT BE USED FOR ANY PURPOSE THAT WOULD REQUIRE AN ACTUAL BOUNDARY RETRACEMENT SURVEY.		STRU
7.	THIS SURVEY HAS BEEN PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.		MEMB
8.	RIPARIAN BOUNDARIES ARE SUBJECT TO CHANGE DUE TO NATURAL CAUSES AND THAT THE BOUNDARY SHOWN HEREON MAY OR MAY NOT REPRESENT THE ACTUAL LOCATION OF THE LIMIT OF TITLE.		
9.	CONTRACTOR SHALL SUPPLY ALL MATERIAL, EQUIPMENT AND LABOR FOR CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS AS DESCRIBED AND SHOWN ON THE PLAN AND DETAILS.	3.	CONNEC
10	ACCESS FOR MATERIAL AND EQUIPMENT TO BE THROUGH A WORK BARGE AND THE UPLAND OF THE PROPERTY 4 MILL POINT ROAD. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMISSION REQUIRED FOR USE OF ANY AND ALL ACCESS.	4.	LUMBER
1	STAGING AREA FOR MATERIALS AND EQUIPMENT TO BE ABOVE THE MEAN HIGH WATER ELEVATION. IF THE WATER ELEVATION IS EXPECTED TO BE HIGHER THAN NORMAL, MACHINERY AND EQUIPMENT WILL BE BROUGHT TO THE UPLAND AREA OF 4 MILL POINT ROAD. WHEN MACHINERY AND EQUIPMENT ARE NOT IN USE, THEY SHALL BE KEPT IN THE STAGING AREA.	5.	CONTRA DATA, AI
12	PERFORMANCE OF THE WORK SHALL BE IN COMPLIANCE WITH THE PLAN, DETAILS, AND ORDER OF CONDITIONS ISSUED BY THE HARWICH CONSERVATION COMMISSION FOR THE REFERENCED PROJECT AND AS DESCRIBED BELOW AND APPROVED THE WORK.	6.	USE FUL INTO OT
13	ANY FUTURE MAINTENANCE REQUIRED SHALL NOT COMMENCE UNTIL THE HARWICH CONSERVATION AGENT HAS FIRST BEEN NOTIFIED AS TO THE SCOPE OF THE REPAIRS.	7.	WOOD F "COAST/
14	ALL DIMENSIONS, GRADES, ETC. SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER TO BE RESOLVED PRIOR TO CONSTRUCTION.	8.	EACH PI INDICAT
15	ALL FILL MATERIAL BROUGHT TO THE SITE SHALL BE COARSE, CLEAN MATERIAL OF SIMILAR GRAIN SIZE COMPATIBILITY.		EMBEDN
16	ABUTTERS NAMES SHOWN HEREON REFERENCE THE CURRENT TOWN OF BOURNE ASSESSORS RECORDS AT THE TIME OF THIS PLAN.	9.	UNIFORI
17	SPECIAL PROVISIONS FOR COASTAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOUND IN THE "COASTAL CONSTRUCTION MANUAL" AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA-55) MA.		FIBERGL
EF	ROSION & SEDIMENT CONTROL NOTES:	10). Float(s a maxin
1.	DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL UNTIL COMPLETION OF SITEWORK AND ESTABLISHMENT OF VEGETATIVE GROUND COVER.	11	I. THE DEC
2.	THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING MEASURES DURING THE DAY TO DAY OPERATION AT THE SITE. THE SITE SHOULD BE POLICED DAILY TO REMOVE ANY LITTER OR DEBRIS.		
3.	TEMPORARY SOIL MATERIAL STOCKPILES SHALL BE SURROUNDED WITH SILTATION BARRIER ON THE DOWNGRADIENT SIDE TO PREVENT DISCHARGE OF SEDIMENT FROM SITE. MATERIAL STOCKPILES THAT ARE IN PLACE FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED WITH VEGETATION, MULCHING, EROSION CONTROL BLANKETS, AND OTHER MEASURES THAT ARE NECESSARY TO PREVENT THE DISCHARGE OF SEDIMENT FROM THE PROJECT SITE.		
4.	IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.		
5.	LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.		
6.	PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.		
7.	PRIOR TO STARTING WORK, CLEARLY MARK WORK LIMITS. DO NOT DISTURB THE AREA BEYOND THE PROPOSED LIMITS. COORDINATE WITH THE ENGINEER FOR LOCATIONS OF TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.		
8.	REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION.		
9.	SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.		
	ALL HYDRAULIC EQUIPMENT SHALL UTILIZE BIODEGRADABLE, VEGETABLE BASED, NON-TOXIC AND NON-POLLUTING HYDRAULIC FLUID.		

- 11. STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.
- 12. PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRICTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

NOTES:

NG LUMBER SHALL CONFORM TO THE LATEST EDITION OF THE AFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". IPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION", LATEST EDITION. MAXIMUM MOISTURE CONTENT SHALL BE 19%.

AMING LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADE AND SPECIES FOR THE SPECIFIED USE. ALL LUMBER SHALL BE STAMPED BY A RECOGNIZED GRADING AGENCY AND SHALL BE SURFACE DRY:

IMBER PRESERVATIVE TREATMENT AND GRADE SPECIFICATIONS

MEMEBER / LOCATION	LUMBER GRADE	SERVICE CONDITIONS	PRESERVATIVE RETENTION LEVEL AND TREATMENT	SURFACE TEXTURE
STRUCTURAL FRAMING MEMBERS	NO. 2 SYP	SALTWATER SPLASH / NOT IN GROUND CONTACT	0.60 PCF ACQ 0.23 PCF MCA	S4S OR ROUGH SAWN
MEMBERS WITH GROUND CONTACT	NO. 2 SYP	SALTWATER SPLASH/GROUND CONTACT	0.31 PCF MCA 0.60 PCF ACQ	S4S OR ROUGH SAWN

CTORS, CONNECTIONS, FASTENERS, ETC. USED TO SECURE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED, NOTED OTHERWISE

WHICH IS SPLIT, CRACKED, NOTCHED OR OTHERWISE ALTERED OR DAMAGED SHALL BE IMMEDIATELY REJECTED AND NOT ED FOR USE, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.

ACTOR SHALL SUBMIT PROPOSED WOOD SPECIES, GRADES, GRADING AGENCY, TYPE OF PRESSURE TREATMENT, MANUFACTURE AND CERTIFICATIONS TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO ORDERING ANY MATERIALS.

ILLY NAILED METAL CONNECTORS (USP, SIMPSON, TECO, OR EQUAL), JOIST, OR BEAM HANGERS WHEN JOISTS OR BEAMS FRAME THER JOISTS OR BEAMS.

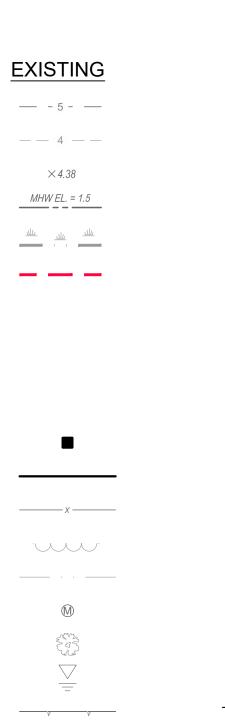
FRAMING BELOW THE BASE FLOOD ELEVATION SHALL BE FLOOD-DAMAGE RESISTANT MATERIALS IN ACCORDANCE WITH THE FAL CONSTRUCTION MANUAL"

LE SHALL BE DRIVEN IN ONE PIECE WITHOUT SPLICING WITH A VIBRATORY HAMMER TO A MINIMUM EMBEDMENT DEPTH AS TED ON THE DRAWINGS. PILES MAY BE REQUIRED BY THE ENGINEER TO BE PROOFED WITH AN IMPACT HAMMER IF MINIMUM MENT IS NOT ACHIEVED.

RMLY TRIM THE TOP OF PILES TO THE ELEVATION INDICATED ON THE DRAWINGS AND CAP OFF TOP OF PILE WITH A SUITABLE LASS OR PRE-FORMED PVC CAP.

S) SHALL BE FABRICATED BY EZ-DOCK OR AS INDICATED ON THE DRAWINGS AND APPROVED BY THE ENGINEER. FLOATS SHALL HAVE MUM DRAFT OF 12 INCHES.

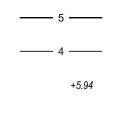
ECKING PLANK SPACING SHALL BE $\frac{3}{4}$ " MINIMUM.



LEGEND

MAJOR CONTOUR MINOR CONTOUR SPOT ELEVATION MEAN HIGH WATER SALT MARSH FLOOD ZONE LIMIT OF WORK CONCRETE STONE TIMBER BOUND PROPERTY LINE PICKET FENCE VEGETATED AREA EDGE OF LAWN MOORING DECIDUOUS TREE WATER SURFACE TOP OF COASTAL BANK

PROPOSED

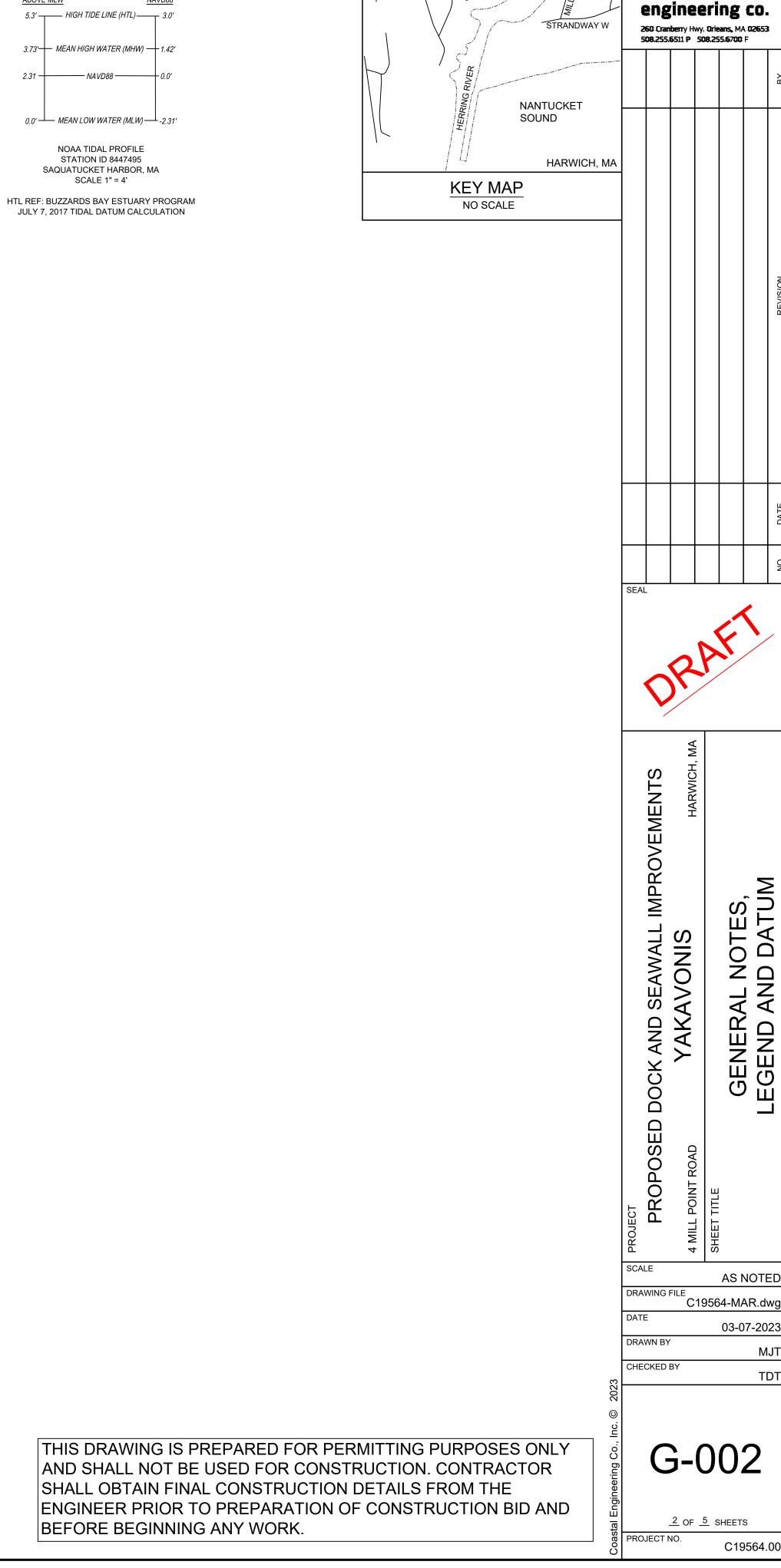


_____ L.O.W. _____

DATUM PROFILE

ABOVE MLW

NAVD88

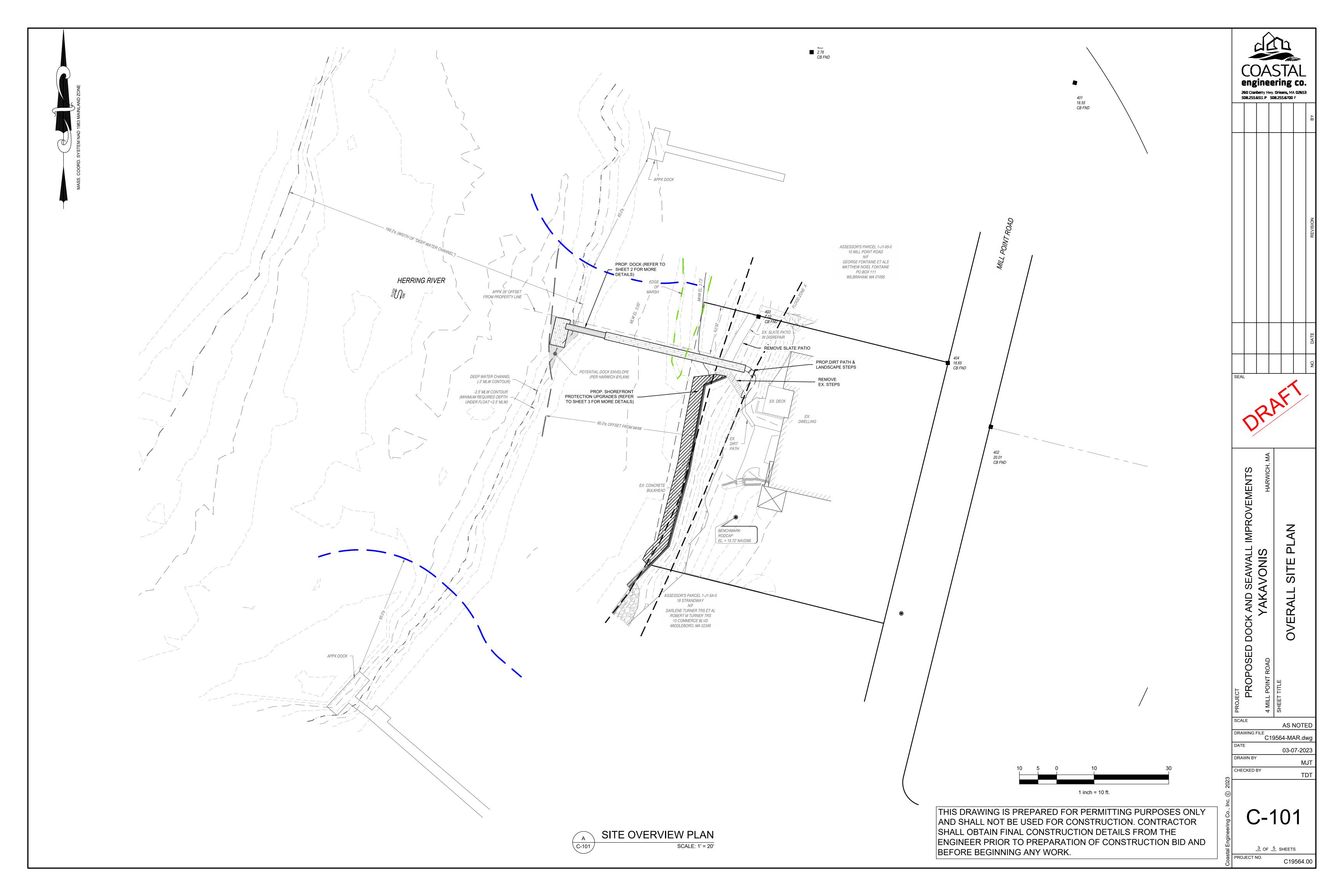


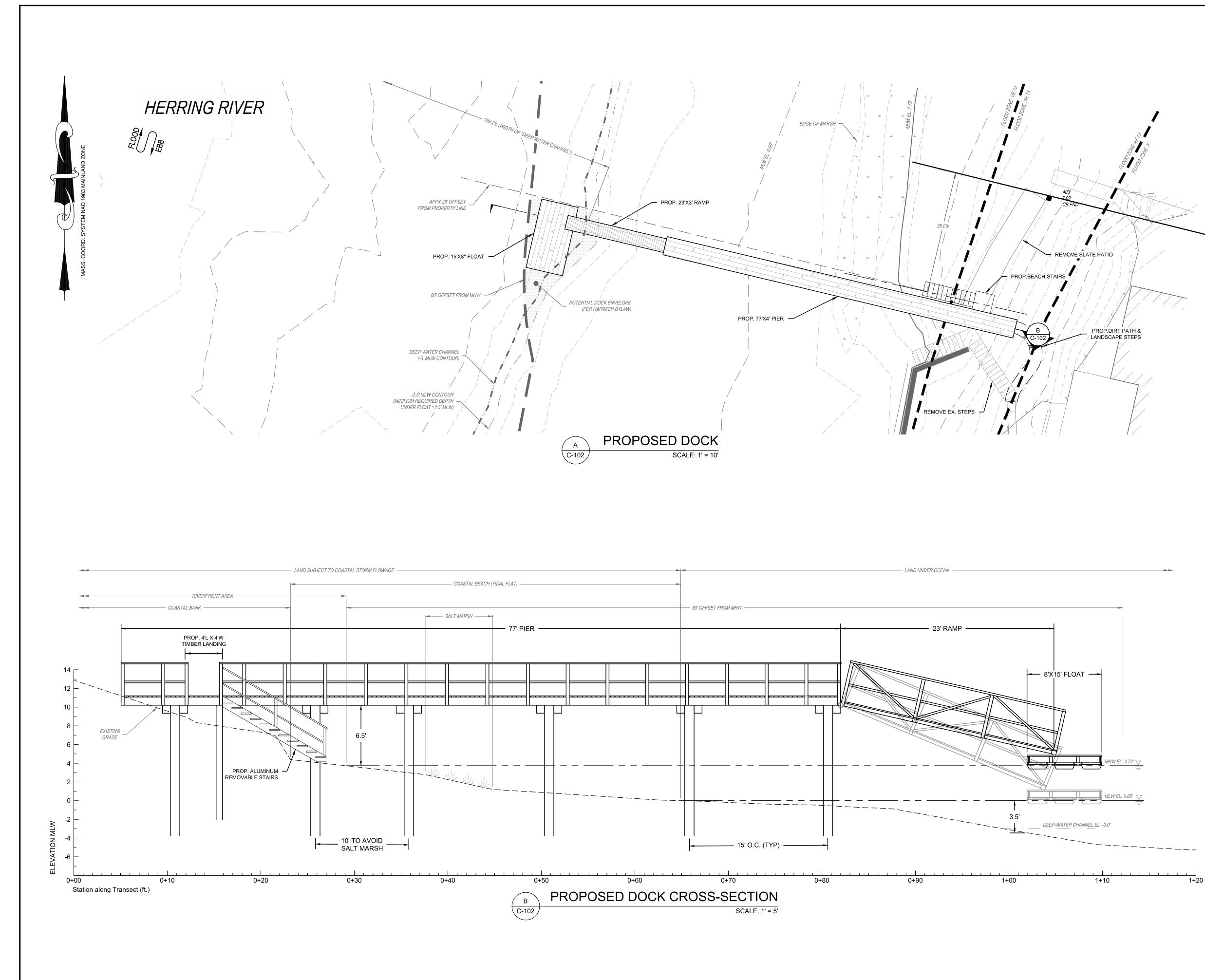
LOWER COUNTY RD

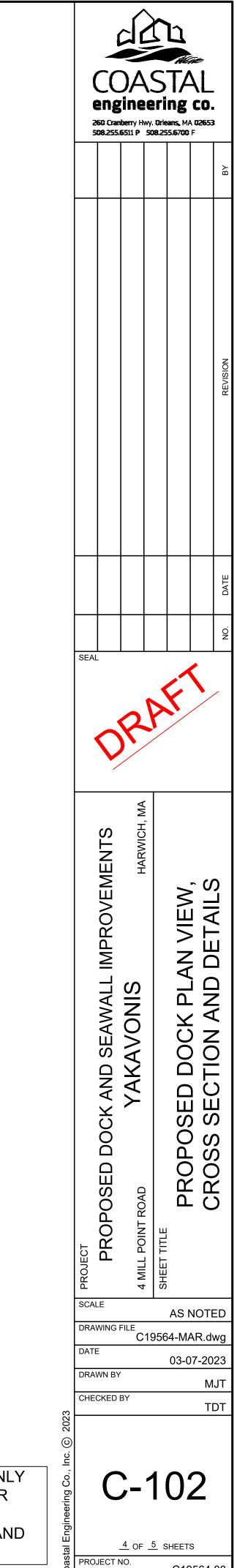
LOCUS

dan

COASTAL



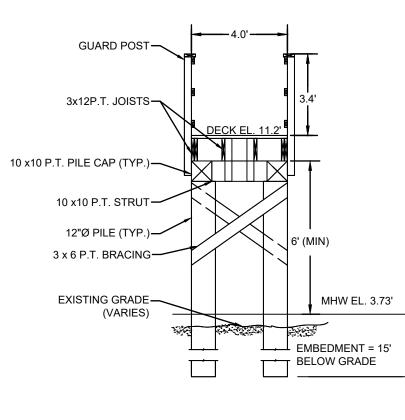




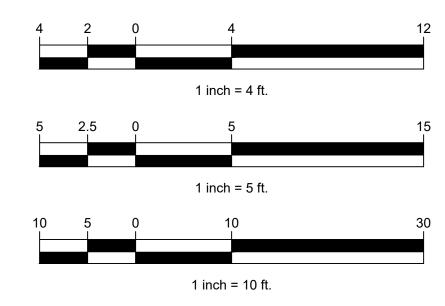
C19564.00

REGULATORY REQUIREMENTS

HARWICH WETLAND PROTECTION REGS							
REGULATION	REQUIREMENT	DESIGN					
FLOAT SIZE	200 S.F. MAX	120 S.F.					
WATER DEPTH	2.5' (MIN)	3.5'					
SEAWARD EXTENTS	80' FROM MHW (MAX)	79.6'					
CHANNEL	MAX 50' INTO DEEP WATER CHANNEL	10'					
OFFSET TO ADJACENT STRUC.	65' MIN	96.2'					
2003 DEP SMALL DOCKS & PIERS							
SEAWARD EXTENT	25% WIDTH OF WATERWAY	15%					
PROPERTY LINE	25' MIN	26'					
PIER HEIGHT	5' ABOVE MHW (MIN)	6.5'					
DEPTH	1.5' (BELOW FLOAT OR ALONG END OF PIER)	3.5'					
PIER WIDTH	4' MAX	4.0'					
DEPTH (FOR SHELLFISH AREAS)	2.5' FROM BOT. OF FLOAT @ MLW	3.0'					







THIS DRAWING IS PREPARED FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN FINAL CONSTRUCTION DETAILS FROM THE ENGINEER PRIOR TO PREPARATION OF CONSTRUCTION BID AND BEFORE BEGINNING ANY WORK.

