

MEAN LOW WATER (MLW) DETERMINATION

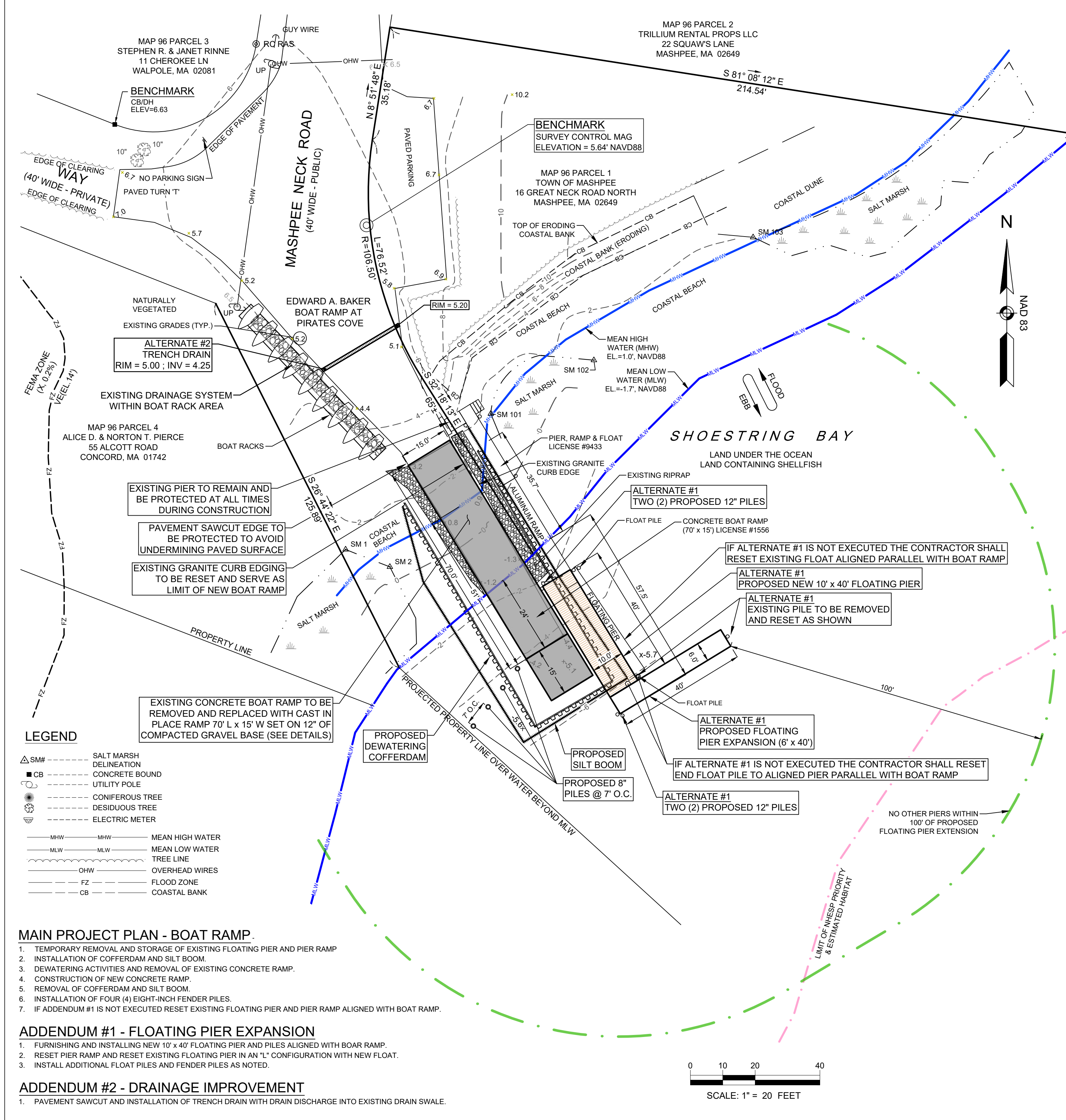
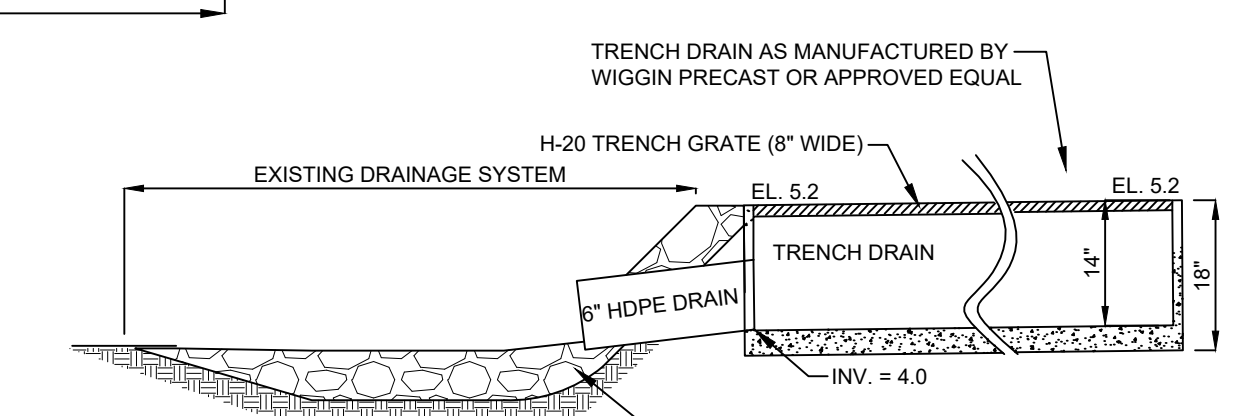
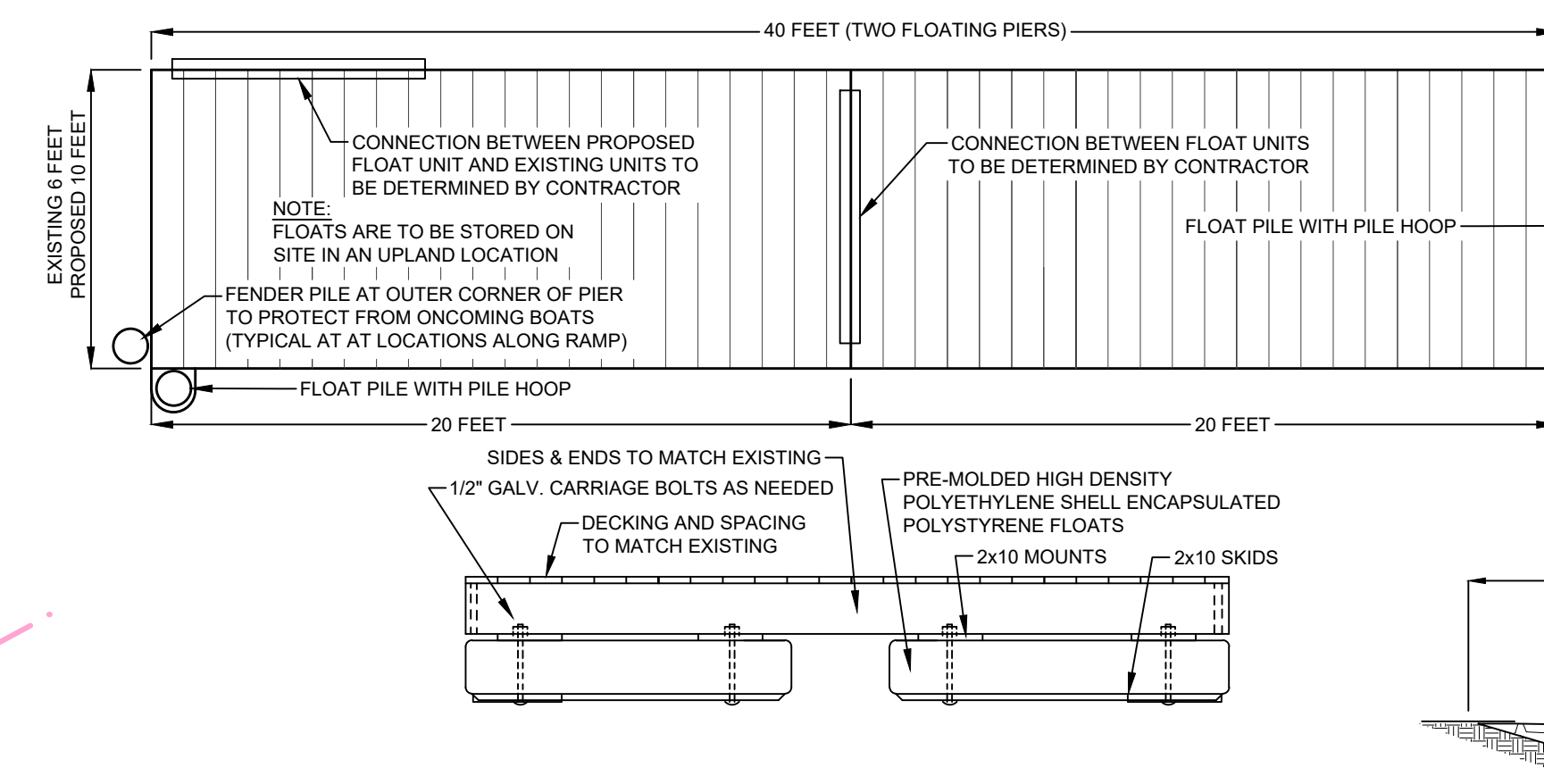
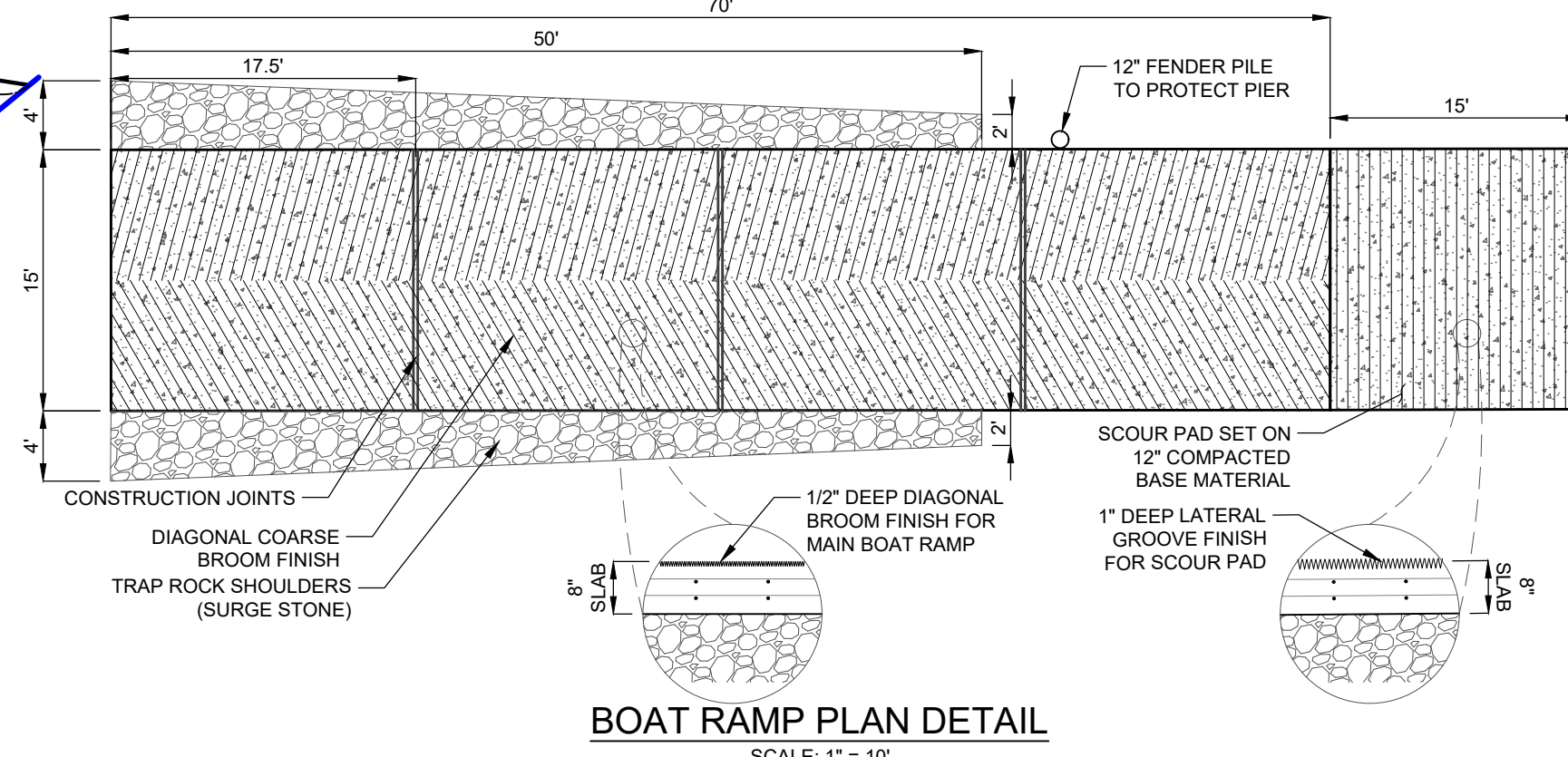
DETERMINATION OF MEAN LOW WATER:
FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
EQUATION FOR DATUM CONVERSION: MLW = NAVD88 + 1.68 (IN FEET)

FLOATING PIER CONSTRUCTION NOTES (ALTERNATE #1)

1. FLOAT WIDTH SHALL NOT EXCEED 6 FEET.
2. NON-LEACHING WOOD PRESERVATIVE MUST BE USED FOR WOODS CONSTRUCTION MATERIAL.
3. PROVISION SHALL BE PROVIDED FOR PUBLIC LATERAL ACCESS. TWO (2) SIGNS FOR PUBLIC LATERAL ACCESS SHALL BE INSTALLED ON EACH SIDE OF THE PIER.
4. DOCK, RAMP AND FLOAT MARKING: TO INCLUDE CHAPTER DEP LICENSE NUMBER AND PROPERTY STREET ADDRESS. IDENTIFICATION DISPLAYS MUST BE MAINTAINED TO BE VISIBLE THROUGHOUT THE OWNERSHIP OF THE DOCK, RAMP AND FLOAT. A FOLLOW UP INSPECTION WITH THE CONSERVATION AGENT IS REQUIRED TO VERIFY THAT OWNERSHIP INFORMATION IS CLEARLY DISPLAYED ON THE DOCK. THE APPLICANT MUST PROVIDE THE INFORMATION IMMEDIATELY OR BE SUBJECT TO ENFORCEMENT ACTIONS UNDER THE CHAPTER 172 BYLAW.
5. ALL FLOATATION MATERIALS ASSOCIATED WITH NEW FLOAT FLINGS SHALL BE ENCAPSULATED AND OF A TYPE APPROVED BY THE COMMISSION.
6. FLOAT SHALL BE PROVIDED SUCH THAT THE BOTTOM OF THE FLOAT TUB PROVIDES CLEARANCE OF 18 INCHES MINIMUM TO THE BOTTOM WHEN THE FLOAT IS OCCUPIED (LOADED) AT MEAN LOW WATER.
7. PROPOSED PILES SHALL BE INSTALLED IN SUCH A WAY AS TO MINIMIZE TURBIDITY TO THE GREATEST POSSIBLE EXTENT. PILE SHOULD BE INSTALLED BY POUNDING TO CREATE A HOLE AND THEN VIBRATED TO APPROPRIATE DEPTH. PILES SHALL BE DRIVEN TO 15' MINIMUM PENETRATION OR REFUSAL DEPTH.

PIER PLAN NOTES (ALTERNATE #1)

1. AT NO TIME SHALL FLOATS, BOATS, KAYAKS, CANOES OR ANY OTHER OBJECTS BE STORED DIRECTLY ON THE SALT MARSH, COASTAL BANK, AND BORDERING VEGETATED WETLANDS. NO FLOAT, BOAT, KAYAK OR CANOE SHALL BE DRAGGED ACROSS THE SALT MARSH OR BORDERING VEGETATED WETLAND AT ANY TIME. OFF-SEASON STORAGE OF ANY PORTION OF A DOCK, RAMP AND FLOAT ON ANY OF THE AFORESAIDED RESOURCE AREAS MAY RESULT IN A FINE OF NO MORE THAN \$300 PER DAY FOR EACH DAY THE VIOLATION PERSISTS UNDER THE CHAPTER 172 BYLAWS.
2. THERE ARE NO KNOWN PIERS WITHIN 100-FEET FROM THE PROPOSED PIER EXTENSION.
3. DETERMINATION OF MEAN LOW WATER:
FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
EQUATION FOR DATUM CONVERSION: MLW = NAVD88 + 1.68 (IN FEET)



CONSERVATION NOTES

PRIOR TO ANY WORK COMMENCING, THE DEP FILE NUMBER SHALL BE POSTED ON A SIGN ON THE STREET SIDE OF THE LOT AND MAINTAINED IN A VISIBLE CONDITION THROUGHOUT THE PROJECT.
PRIOR TO ANY WORK COMMENCING, ADVANCE WRITTEN NOTIFICATION WILL BE PROVIDED TO THE LOCAL CONSERVATION COMMISSION.
THE CONSTRUCTION SITE WILL BE CLEANED DAILY TO REMOVE ANY LOOSE DEBRIS.
ALL PROPOSED WORK IS LOCATED WITHIN PREVIOUSLY LEGALLY DISTURBED AREAS.

EROSION AND SEDIMENTATION CONTROL PLAN

1. THE CONTRACTOR SHALL EXAMINE THE WORK AREA AND SITE CONDITIONS UNDER WHICH THIS WORK IS TO BE PERFORMED PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL SELECT AN AREA WITHIN THE PARKING LOT FOR STAGING OF MATERIALS AND EQUIPMENT THROUGHOUT THE DURATION OF THE WORK.
3. THE CONTRACTOR SHALL INSTALL A SILT CURTAIN BOOM WITHIN OCKWAY BAY TO CONTROL AND PROVIDE SEDIMENTS FILTRATION.
4. THE SILT CURTAIN SHALL BE KEPT IN PLACE UNTIL ALL SILT PLUME AND SUSPENDED SEDIMENTS HAVE SETTLED TO THE SEABED.
5. IF THE INSTALLATION OF A COFFERDAM IS EMPLOYED THE CONTRACTOR SHALL ENSURE THAT THE SILT CURTAIN IS IN PLACE PRIOR TO INSTALLATION OF THE SHEET PILES.
6. AT NO POINT DURING CONSTRUCTION SHALL SILT, SEDIMENT, EROSION, DEBRIS AND SOIL FROM THE CONSTRUCTION AREA BE ALLOWED TO BE TRACKED OUT OF THE PREMISES.
7. UNSUITABLE AND EXCESS MATERIAL NOT INTENDED FOR REUSE OR RE-PURPOSE WITHIN THE SITE SHALL BE STRIPPED FROM AREAS IMPACTED BY CONSTRUCTION AND DISPOSED OFF-SITE.
8. EXCAVATED MATERIAL OR IMPORTED MATERIAL SHALL NOT BE PILED IN AREAS WHERE SEDIMENTS MAY DAMAGE DRAINAGE SYSTEM ON THE SITE OR ON ADJACENT PROPERTIES OR MAY POSE A THREAT TO ABUTTING PROPERTIES AND TO THE WETLAND RESOURCES.
9. THE CONTRACTOR SHALL MAINTAIN ON SITE 200 LINEAR FEET OF EXTRA SILT FENCE IN THE EVENT EROSION OCCURS AND IMMEDIATE ACTION IS NECESSARY. IF EROSION OCCURS DURING CONSTRUCTION THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO CONTAIN MATERIAL ON SITE AND PREVENT FUTURE EROSION.
10. EXCAVATED MATERIAL SHALL NOT BE STOCKPILED FOR PROLONG PERIODS OF TIME. IF RAIN IS FORECASTED DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE SILTATION CONTROL DOWN-GRADE FROM STOCKPILE MATERIAL TO AVOID MATERIAL WASHOUT.
11. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO CONTROL DUST LEVELS BY MEANS SUCH AS WATER TRUCKS DURING CONSTRUCTION UNTIL ALL DISTURBED AREAS ARE STABILIZED.
12. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO BE APPROVED BY THE ENGINEER IF DEWATERING ACTIVITIES WILL BE IMPLEMENTED DURING CONSTRUCTION.

LEGEND

- △ SALT MARSH DELINEATION
- CONCRETE BOUND
- UTILITY POLE
- CONIFEROUS TREE
- DESHEDDING TREE
- ELECTRIC METER
- MHW — MHW — MEAN HIGH WATER
- MLW — MLW — MEAN LOW WATER
- — — TREE LINE
- — — OHW — OHW — OVERHEAD WIRES
- — — FZ — FZ — FLOOD ZONE
- — — CB — CB — COASTAL BANK

ADDENDUM #1 - FLOATING PIER EXPANSION

1. FURNISHING AND INSTALLING NEW 10' x 40' FLOATING PIER AND PILES ALIGNED WITH BOAR RAMP
2. RESET PIER RAMP AND RESET EXISTING FLOATING PIER IN AN "L" CONFIGURATION WITH NEW FLOAT.
3. INSTALL ADDITIONAL FLOAT PILES AND FENDER PILES AS NOTED.

ADDENDUM #2 - DRAINAGE IMPROVEMENT

1. PAVEMENT SAWCUT AND INSTALLATION OF TRENCH DRAIN WITH DRAIN DISCHARGE INTO EXISTING DRAIN SWALE.

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COMMONWEALTH OF MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER
MATTHEW C. COSTA
No. 52282

COMMONWEALTH OF MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER
RALPH LIZARDI-PIVERA
No. 48845

Drawn By: RLR, WNH
Checked By: MC

Rev	Date	Description
1	5/2/24	DEFINE MAIN RAMP PROJECT WITH TWO (2) ALTERNATES

PROJECT STATISTICS

1. EXISTING AREA OF CONCRETE BOAT RAMP:	1,050 S.F.
2. PROPOSED AREA OF CONCRETE BOAT RAMP:	1,275 S.F.
3. PROPOSED AREA OF RESET 12-INCH PILES:	1.57 S.F.
4. PROPOSED AREA OF NEW PILES:	4.47 S.F.
5. TOTAL AREA OF WORK BELOW MHW (BOAT RAMP & PILES):	994 S.F.
6. TOTAL AREA OF WORK BELOW MLW (BOAT RAMP & PILES):	589 S.F.
7. DISTURBANCE IN COASTAL BEACH:	0 FEET
8. DISTURBANCE IN SALT MARSH:	0 S.F.
9. AREA OF DISTURBANCE IN LAND UNDER OCEAN:	229 S.F.
10. AREA OF NEW DISTURBANCE IN LAND CONTAINING SHELLFISH:	229 S.F.
11. AREA OF NEW DISTURBANCE IN LAND CONTAINING SHELLFISH:	229 S.F.

GENERAL NOTES

LOCATIONS ARE BASED ON AN "ON THE GROUND" INSTRUMENT SURVEY AND ELEVATIONS BASED ON THE NAVD 1988 DATUM. COORDINATE SYSTEM USED IS THE MA-MAINLAND COORDINATE SYSTEM, DATUM: NAD 83, UNITS: U.S. SURVEY FEET.

ZONING DISTRICT: R-3

PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION OF VE (EL 14) BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 25001C0752J, WITH A MAP EFFECTIVE DATE OF JULY 16, 2014.

A PORTION OF THIS LOT IS LOCATED WITHIN A DEP APPROVED ZONE II WELHEAD PROTECTION AREA. THIS LOT IS NOT MAPPED WITHIN A MESA NATURAL HERITAGE AND ENDANGERED SPECIES AREA.

DEED REFERENCE: BOOK 1444 PAGE 299 PLAN REFERENCE: BOOK 162 PAGE 107

PREPARED FOR: TOWN OF MASHPEE
16 GREAT NECK ROAD NORTH
MASHPEE, MA 02649

PROJECT: 388 MASHPEE NECK ROAD, MASHPEE, MA 02649

TITLE: ASSESSORS: MAP 96 PARCEL 1

DATE: SEPTEMBER 19, 2022

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