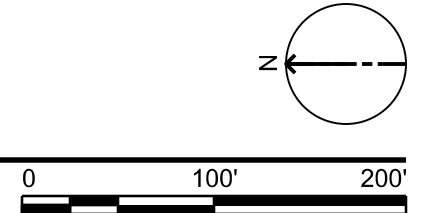


**GENERAL NOTES:**

- SOUNDINGS ARE IN FEET AND TENTHS. THE REFERENCE PLANE IS MEAN LOWER LOW WATER (MLLW) AND IS BASED ON THE 1983-2001 TIDAL EPOCH. SOUNDINGS NOTED WITH A (+) ARE ABOVE THE REFERENCE PLANE OF MLLW. SOUNDINGS WITHOUT A SIGN ARE BELOW THE REFERENCE PLANE OF MLLW, AND SHOULD BE CONSIDERED NEGATIVE.
- TOPOGRAPHY SHOWN IS FROM PREVIOUS SURVEYS, AERIAL IMAGERY AND/OR NOAA CHART NO. 13253. ALL TOPOGRAPHY, INCLUDING SHORELINE, BRIDGES, PIERS, ETC., IS LOCATED APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.
- BENCH MARK DATA: TIDES WERE RECORDED USING RTK GPS. THE MLLW TO NAVD88 CORRECTION FOR THIS PROJECT IS 5.39 FEET. THIS CORRECTION WAS ESTABLISHED IN THE VICINITY OF NOAA BENCH MARKS AT BRANT ROCK, GREEN HARBOR RIVER, MASSACHUSETTS (STATION ID 8446009, 02/05/2004). NAVD88 IS ABOVE MLLW; THEREFORE THE CORRECTION SHOULD BE ADDED TO NAVD88 TO CONVERT TO MLLW. NO TIDE GAUGES WERE USED ON THIS PROJECT. THE AVERAGE RANGE OF TIDE IS 9.1 FEET.
- COORDINATES SHOWN ARE BASED ON THE LAMBERT GRID SYSTEM FOR THE COMMONWEALTH OF MASSACHUSETTS (MAINLAND ZONE 2001), NAD 1983 AND ARE BASED ON U.S. SURVEY FEET.
- SURVEY WAS PERFORMED USING A RESON 7125 MULTIBEAM SONAR SYSTEM OPERATING AT 400 KHZ. HORIZONTAL POSITIONING AND REAL TIME TIDE READINGS WERE RECORDED UTILIZING A TRIMBLE SPS 855 RTK GPS SYSTEM. THE RTK BASE STATION USED WAS STATION COSGROVE (2007).
- THE SOUNDING INFORMATION SHOWN ON THIS MAP REPRESENTS THE SHOALEST SOUNDINGS OF THOSE OBTAINED FROM HYDROGRAPHIC SURVEYS CONDUCTED DURING OCTOBER 2017. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED, AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.
- FIELD BOOK: R&H 4974  
6 AND 8-FOOT DEPTH CONTOURS SHOWN THUS:  
SURVEYED BY: ADRIEN LUSSIER AND CREW  
REFER TO SURVEY NO. 17-2474

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-6	10/04/17	N 2853862 E 888991	42°-04'-33.3"N 70°-38'-32.6"W
RN-8A	10/04/17	N 2855299 E 888076	42°-04'-47.6"N 70°-38'-44.6"W
GC-9	10/04/17	N 2855606 E 887810	42°-04'-50.7"N 70°-38'-48.1"W

**A5** PLAN - STA. 0+00 TO STA. 21+59  
SCALE: 1" = 100'



**US Army Corps of Engineers**

DATE	DESCRIPTION

ISSUE DATE: OCTOBER 31, 2017	CONTRACT NO.:	DRAWING CODE: GRE-98
CHK BY: DJB	ASST. CHIEF SURVEY SEC.:	FOR CHIEF SURVEY SECTION:
REVIEWED BY:	APPROVED BY:	SCALE: 1:1
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT 696 VIRGINIA ROAD CONCORD, MA 01742-2751		SHEET 1 OF 1

GREEN HARBOR  
MARSHFIELD, MASSACHUSETTS  
CONDITION SURVEY

6 AND 8-FOOT CHANNELS

SHEET ID  
**V-101**