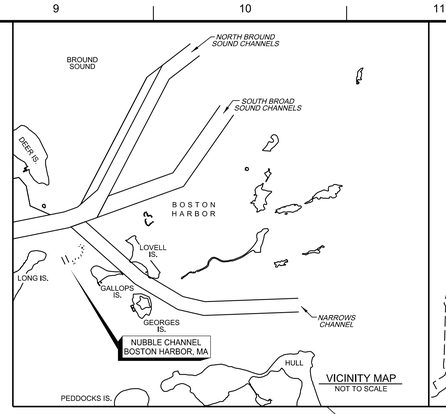
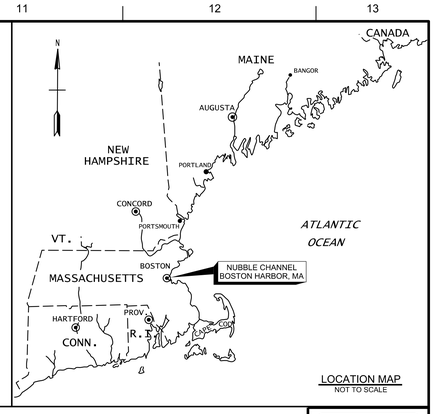
INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-3	08/20/14	N 2945330.73 E 805196.12	42°-19'-43.7" N 70°-56'-55.9" W
RN-4	08/20/14	N 2945506.55 E 805456.24	42°-19'-45.5" N 70°-56'-52.4" W
GC-5	08/15/14	N 2946033.54 E 804729.92	42°-19'-50.7" N 70°-57'-02.1" W
RN-6	08/15/14	N 2946260.74 E 805108.75	42°-19'-52.9" N 70°-56'-57.0" W





NIXES MATE

NIXS MATE BEACON

RN-6

GC-5

RN-4

15-FOOT NUBBLE CHANNEL

27-FOOT NARROWS CHANNEL

CABLE AREA

FLOOD

EBB

5+88

300'

0+00

GC-3

N 2946000

N 2945000

E 805000

E 806000

E 807000

GALLOPS ISLAND

GENERAL NOTES:

1. 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.

2. TOPOGRAPHY SHOWN IS FROM PREVIOUS SURVEYS, AERIAL IMAGERY AND/OR NOAA CHART NO. 13270. ALL TOPOGRAPHY, INCLUDING SHORELINE, BRIDGES, PIERS, ETC., IS LOCATED APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.

3. BENCH MARK DATA: TIDES WERE RECORDED USING RTK GPS. THE MLLW TO NAVD88 CORRECTION FOR THIS PROJECT IS 5.30 FEET. THE CORRECTION IS REFERENCED FROM NOAA'S V-DATUM MODEL IN THE VICINITY OF NUBBLE CHANNEL, BOSTON HARBOR, MASSACHUSETTS. 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 9.5 FEET.

4. 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.

5. 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 LEICA 1200 RTK GPS SYSTEM. THE RTK BASE STATION USED WAS STA. CASTLE (2014).

6. THE SOUNDING INFORMATION SHOWN ON THIS MAP REPRESENTS THE SHOALEST SOUNDINGS OF THOSE OBTAINED FROM HYDROGRAPHIC SURVEYS CONDUCTED DURING DECEMBER 2014. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

7. 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.

8. FIELD BOOK: R&H 4503
15-FOOT DEPTH CONTOUR SHOWN THUS: _____
SURVEYED BY: ADRIEN LUSSIER AND CREW
REFER TO SURVEY NO. 15-1361

B6 PLAN - STA. 0+00 TO STA. 5+88
SCALE: 1"=100'
0 100' 200'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DWN BY: WHW | CKD BY: AEB
REVIEWED BY: _____
REVIEWED BY: _____
REVIEWED BY: _____
For: Chief, Survey Section
DATE: _____

ISSUE DATE: JUNE 2, 2016
DRAWING CODE: BOS-1919
SHEET 1 OF 1
SCALE: 1:1
ANSI F

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT 696 VIRGINIA ROAD CONCORD, MA 01742-2751

BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY

15-FOOT NUBBLE CHANNEL

SHEET ID
V-101

pw://COE-NAEPWP01CON.nae.ds.usace.army.mil:coe-naepwp01con.nae.ds.usace.army.mil/Documents/Civil Works/Navigation/Massachusetts/Boston Harbor/Project Conditon Surveys (PCS)/2014_12 - Nubble Channel/ProjectData/CAD_BIM/_Sheets/ANSI F Sheet Seed for Nubble
ANSI F 01-JUN-2016 09:47 MicroStation