

SHEET 6 & 13 OF 15

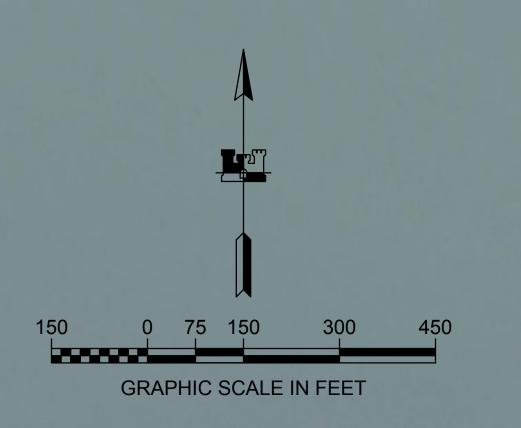
SHEETS

SHEETS 5 & 12 OF 15

SHEETS 7 & 14 OF 15

SHEETS. 2 & 9

SHEETS 4 & 11 OF 15







- HOLDING USACE BC "NH-04" AS N 3,837,212.71', E 1,731,266.48'.
- VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0.0'), BASED ON THE NOAA/NOS TIDAL BENCH ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA/NOS TIDAL BENCH MARK "946 8756
- VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 (GEOID 12B) ELEVATIONS HOLDING NOAA/USACE TIDAL BENCHMARK "946 8756 G 1992" (VM#12154/PID BBBD24) AS
- SOUNDINGS ARE IN U.S. SURVEY FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
- BATHYMETRY WAS COLLECTED AUGUST 22, 2015. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2022 PROCESSED USING QINSY 8.1 SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED USING RTK GNSS
- THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
- MAP SOUNDINGS ARE BINNED AT 24 FEET AND ARE SHOAL-BIASED. CONTOURS ARE BASED ON 12 FEET

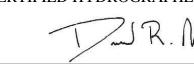
SURVEY CONTROL DATA						
STATION	NORTHING	EASTING	MLLW	DESCRIPTION		
BOOTSTRAP	3,838,021.15	1,730,359.97	6.69	3.5" DOMED USACE BC		
CELL	3,835,965.90	1,729,122.30	12.90	ALUMINUM MON		
DINGO	3,836,890.97	1,732,407.19	19.34	3.5" DOMED USACE BC		
KMJV-1	3,837,168.87	1,729,283.15	16.50	3.5" DOMED USACE BC		
NH-02	3,838,272.50	1,731,835.01	12.44	3.5" DOMED USACE BC		
NH-03	3,837,585.34	1,730,864.94	13.83	3.5" DOMED USACE BC		
NH-04	3,837,212.71	1,731,266.48	15.24	3.5" DOMED USACE BC		
NH-05	3,834,957.98	1,729,422.33	16.4	3.5" DOMED USACE BC		
NH-06	3,834,888.51	1,728,762.20	14.05	3.5" DOMED USACE BC		
OME A	3,841,096.47	1,728,070.64	11.3	3" DOMED NGS BC		
OME B	3,842,264.55	1,729,661.41	53.8	3" DOMED NGS BC		
PUMP	3,837,605.19	1,731,831.48	9.17	3.5" DOMED USACE BC		

*Bench marks with elevation precision of 0.1' were measured by RTK GNSS.

NAVIGATION AIDS					
USCG NO.	NORTHING	EASTING	DESCRIPTION		
27962	3,834,922	1,729,388	ENTRANCE LIGHT 2		
27963	3,834,844	1,728,782	ENTRANCE LIGHT 1		
27964	3,836,250	1,729,618	BUOY 1		
27965	3,836,070	1,729,925	BUOY 2		
27966	3,836,541	1,729,900	BUOY 3		
27967	3,836,470	1,730,030	BUOY 4		
27968	3,838,033	1,730,848	BUOY 5		
27969	3,837,935	1,731,111	BUOY 7		
27970	3,837,678	1,731,012	BUOY 8		
27971	3,837,805	1,731,401	BUOY 9		



THIS HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE OVERSIGHT OF AN ACSM/THOSOA



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