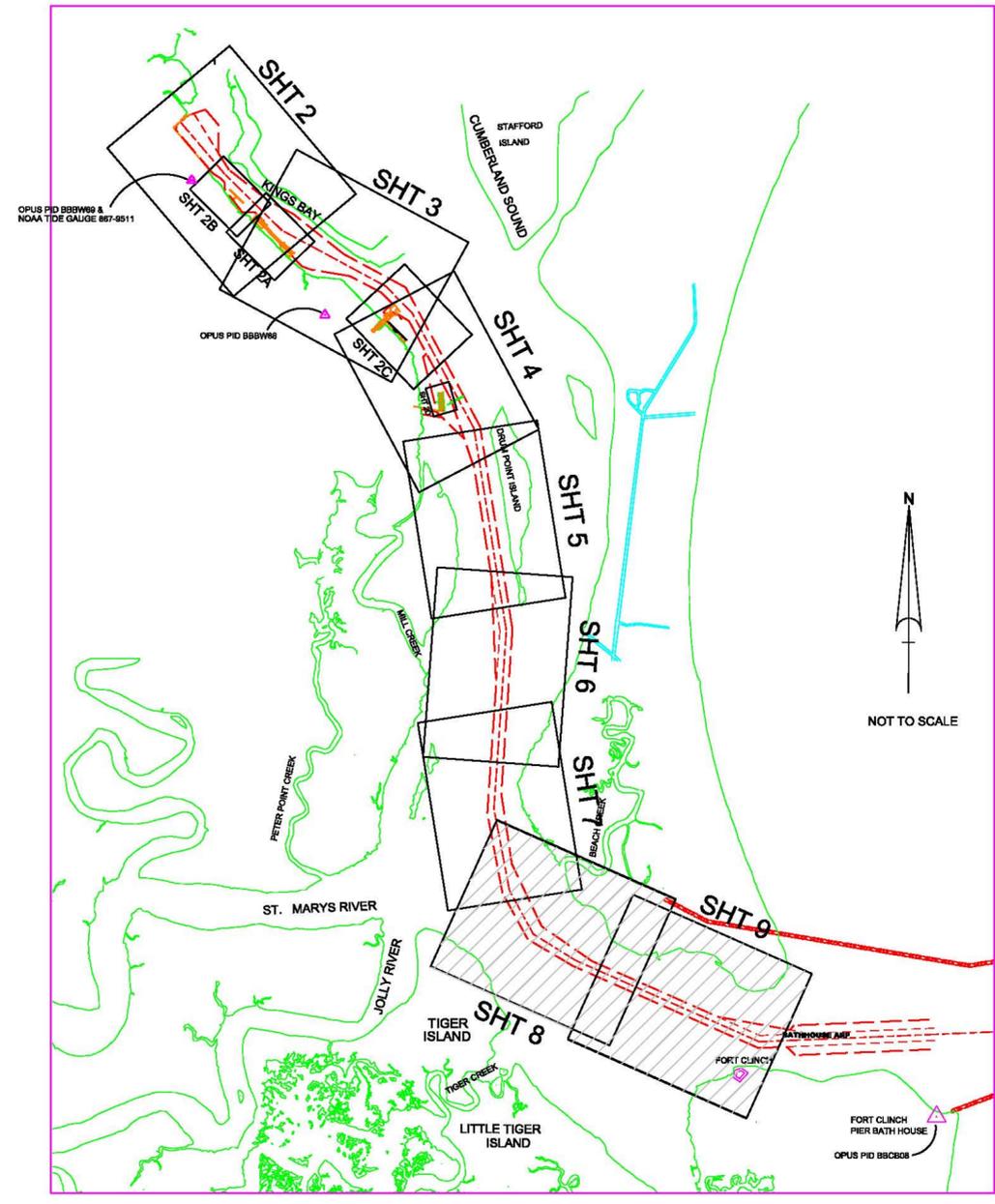
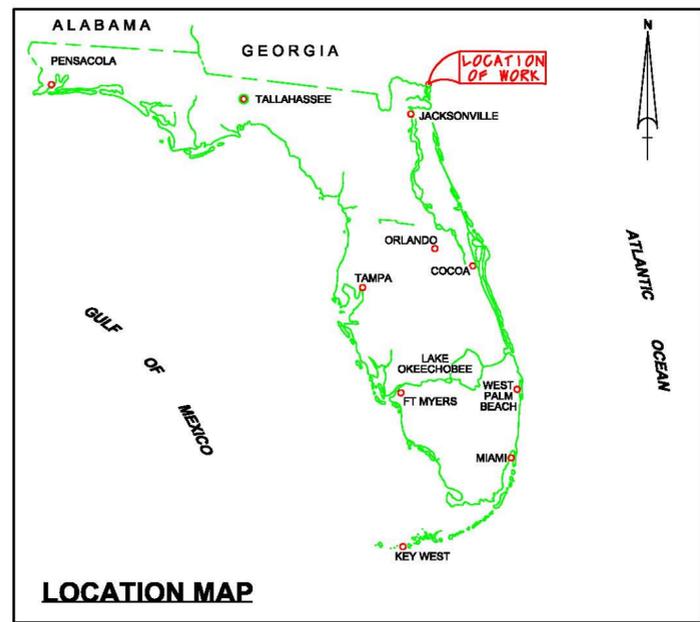


U.S. NAVY SUBMARINE BASE KINGS BAY, GEORGIA RANGE A & A1 EXAMINATION SURVEY



LEGEND	
• BM	BENCHMARK
⬆	LIGHTED BEACON
⬆	GREEN DAYBEACON
⬆	RED DAYBEACON
⬆	RED LIGHTED BUOY
⬆	GREEN LIGHTED BUOY
⬆	CAN BUOY
⬆	NUN BUOY
⬆	TIDE STAFF

DEPTH COLOR CODE	
≤ 38.0	Red
38.0-41.9	Orange
42.0-45.9	Yellow
46.0-49.9	Green
≥ 48.0	Blue



SURVEY NOTES:

- REFER TO SURVEY NO. 11-198.
- SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO THE NOAA REPORTED MEAN LOWER LOW WATER (MLLW) TIDAL DATUM RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS USING A HYPACK KINEMATIC TIDAL DATUM MODEL (KINGSBAY-07JUNE2010.KTD). ANY THIRD-PARTY ATTEMPT TO DUPLICATE THIS SURVEY SHALL OBTAIN THE LATEST KINEMATIC TIDAL DATUM MODEL (KTD FILE) AVAILABLE FROM USACE, JACKSONVILLE DISTRICT.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
- ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
- THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS.
- DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S DATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCH MARKS ASSOCIATED WITH THE TIDE GAUGE SITES SPECIFIED BELOW: NOAA TIDAL STATION 872-0030 FOR RANGE-A AND RANGE-A1
VERTICAL MEASUREMENTS WERE MADE USING A RESON 8101 MULTIBEAM SYSTEM. SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
- SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 10.

VESSEL	DATE OF SURVEY	CUT
SB-36	14 OCT 2011	RGE - A & A-1

US Army Corps of Engineers
Jacksonville District
SAFETY ON THIS JOB DEPENDS ON YOU

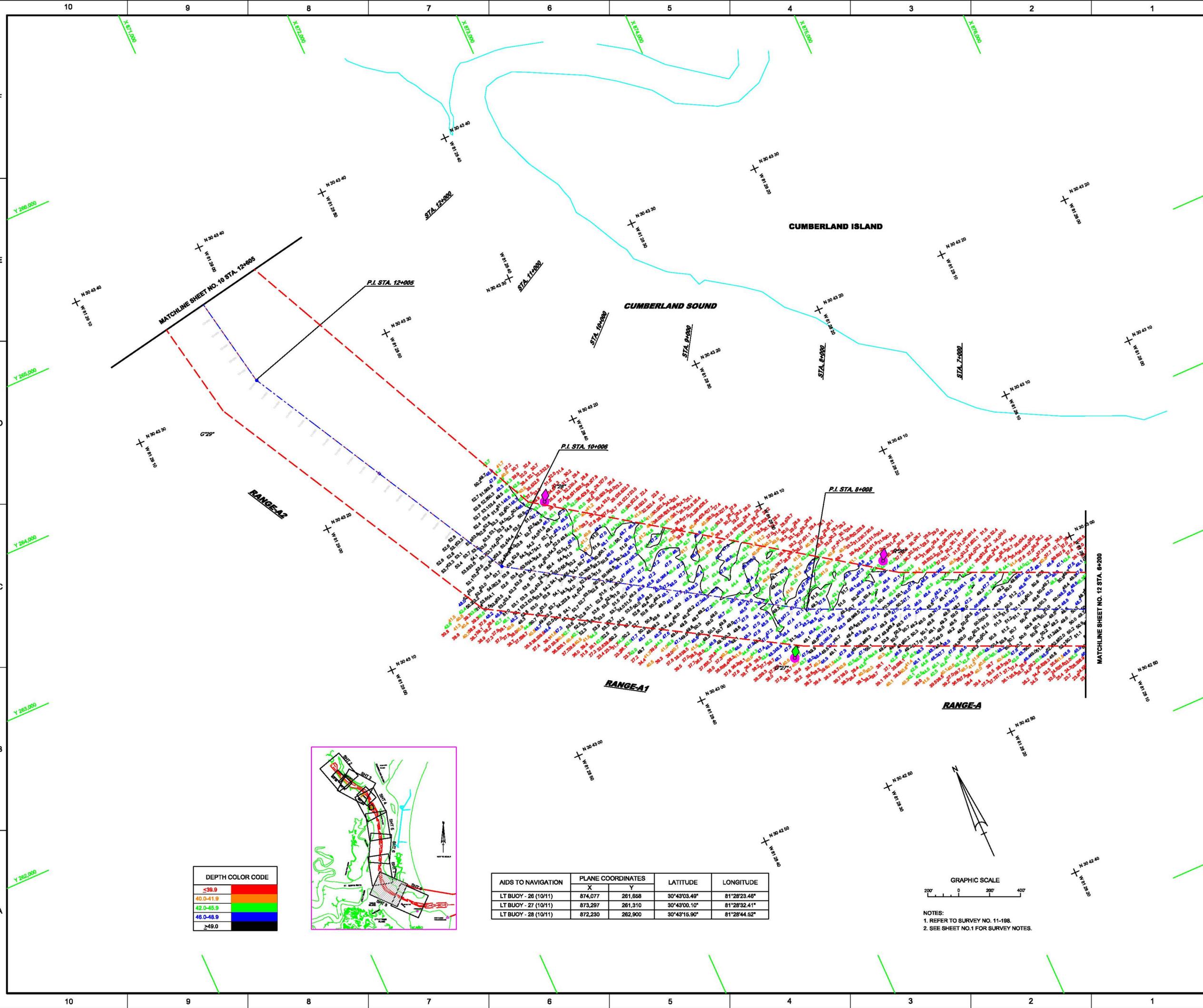
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

U.S. NAVY SUBMARINE BASE
KINGS BAY, GEORGIA
**RANGE-A & A1
EXAMINATION SURVEY
45-FOOT PROJECT
INDEX AND LOCATION
PLAN**

Scale: AS SHOWN

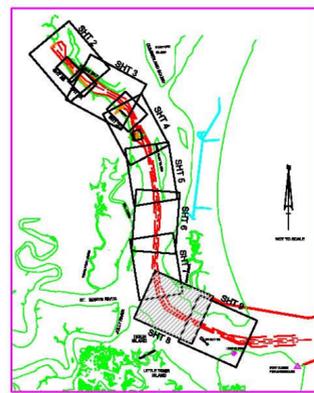
Drawing no.
1/9

SHEET 1 OF 3



DEPTH COLOR CODE

≤39.9	Red
40.0-41.9	Orange
42.0-45.9	Yellow
46.0-48.9	Green
≥49.0	Blue



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT BUOY - 26 (10/11)	874,077	261,658	30°43'03.49"	81°28'23.46"
LT BUOY - 27 (10/11)	873,297	261,310	30°43'00.10"	81°28'32.41"
LT BUOY - 28 (10/11)	872,230	262,900	30°43'15.90"	81°28'44.52"

GRAPHIC SCALE
200' 0 200' 400'

NOTES:
1. REFER TO SURVEY NO. 11-198.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

