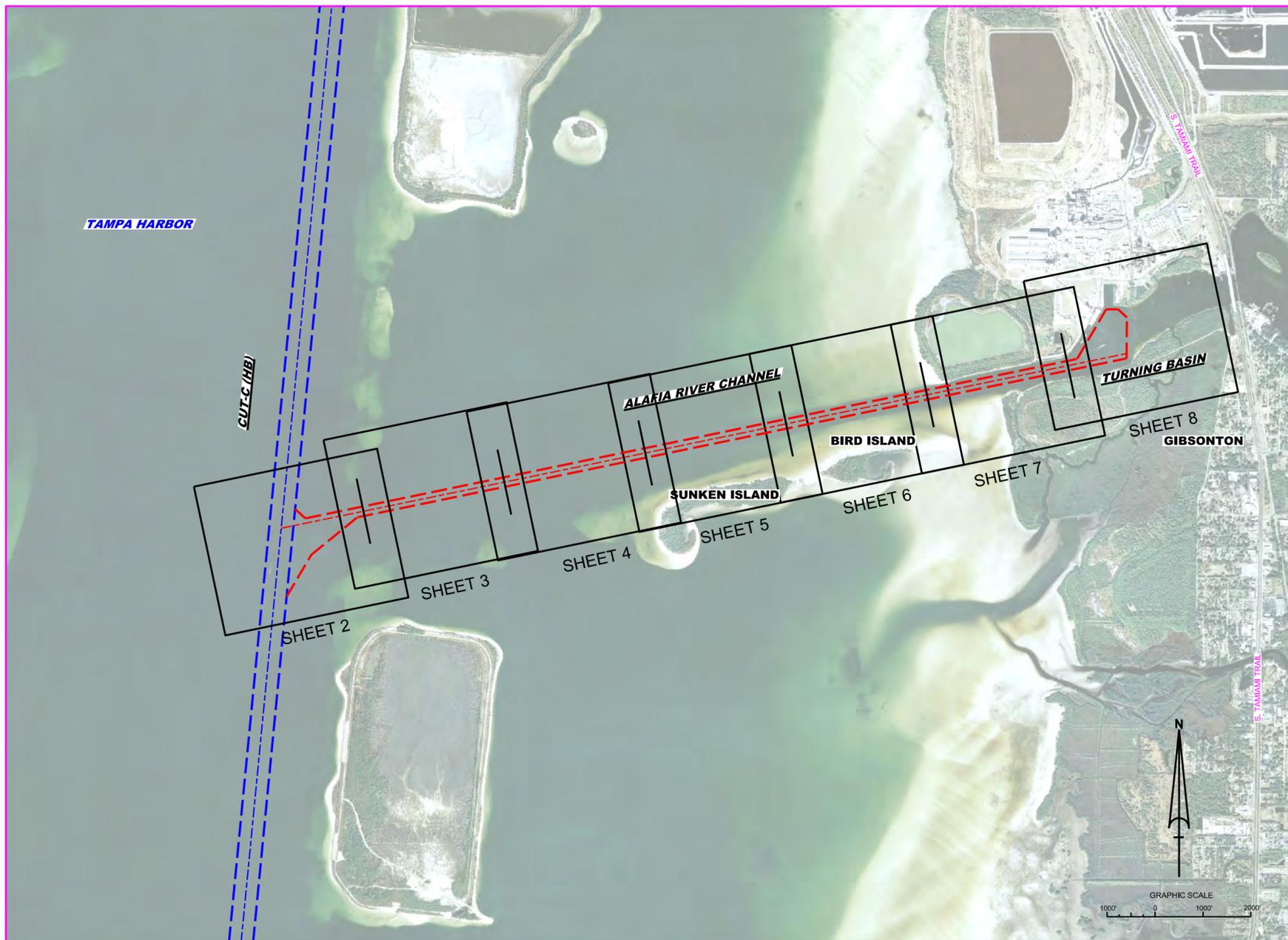




# ALAFIA RIVER HILLSBOROUGH COUNTY, FLORIDA 33 AND 34-FOOT EXAM SURVEY FY12



**SURVEY NOTES**

- REFER TO SURVEY NO. 12-180.
- DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW), TIDAL EPOCH 1983-2001 AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCH MARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW.  
  
NOAA TIDAL STATION 872-6657, DAVIS ISLAND, HILLSBOROUGH BAY FOR ENTIRE PROJECT.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW USING A KINEMATIC TIDE DATUM (KTD) MODEL (SPC-FL-WEST-2010-12-07.KTD).
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA 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 POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:  
  
REFERENCE BASE LOCATED AT "Q-261" (NGS PID: AG6024)  
  
TIDE STAFF LOCATED FROM TIDAL BENCHMARK "Q-261" (NGS PID: AG6024)  
  
VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835 SMART-SOUNDER WITH DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. SOUNDINGS SHOWN IN LOW FREQUENCY.
- VESEL                      DATE OF SURVEY                      CUT  
WB-34                      02-03 JUL 2012                      ALAFIA RIVER  
WB-34                      24 SEP 2012                      ALAFIA RIVER  
WB-34                      08 NOV 2012                      ALAFIA RIVER  
WB-34                      17, 20 DEC 2012                      ALAFIA RIVER  
WB-34                      08, 10 JAN 2013                      ALAFIA RIVER  
WB-34                      22 APR 2013                      ALAFIA RIVER T.B.
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF 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 DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

LEGEND	
	MONUMENT
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

US Army Corps of Engineers  
Jacksonville District  
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DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

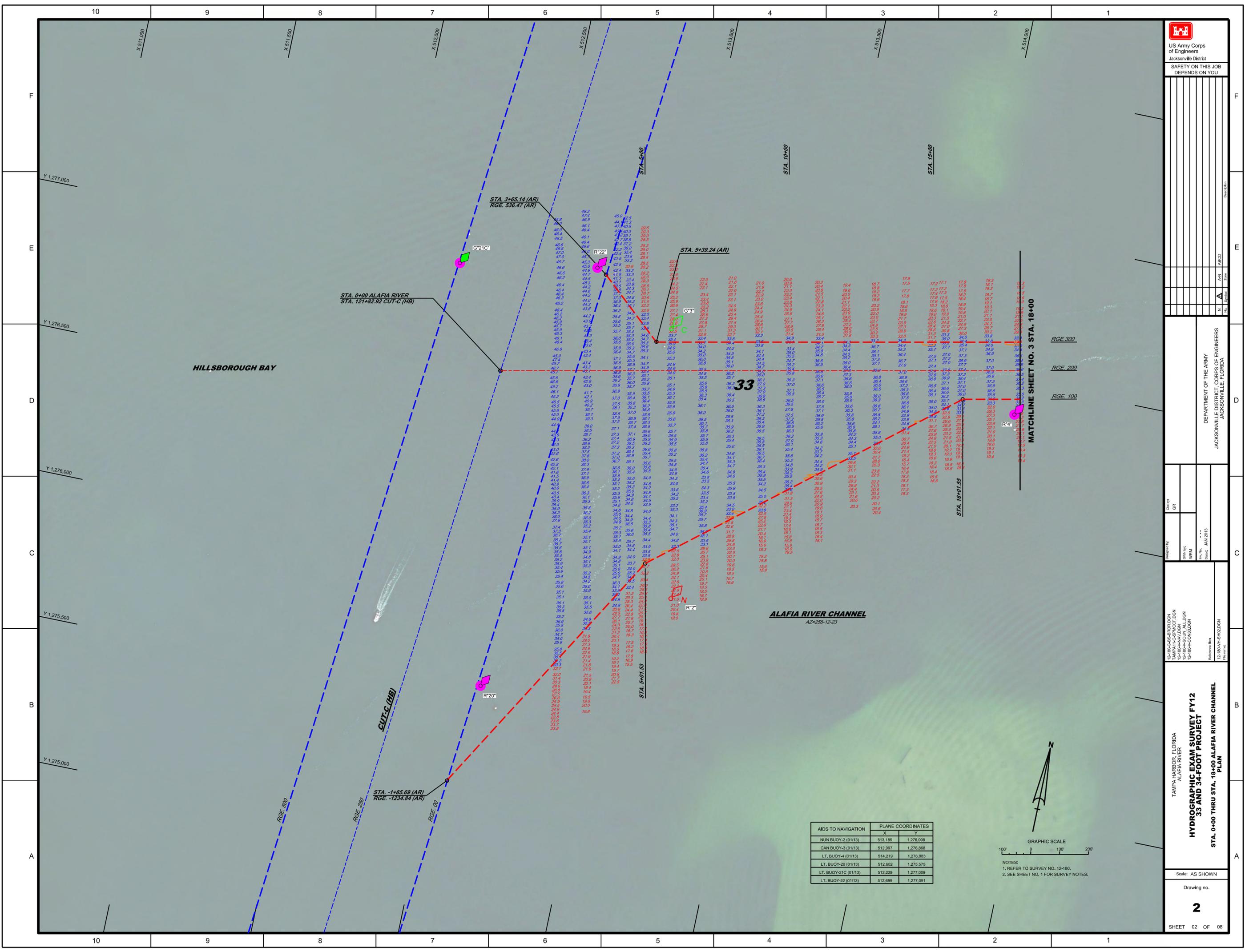
DESIGNED BY: WRM  
DRAWN BY: WRM  
CHECKED BY: GR  
DATE: JAN 2013

12-180-33-34-IB-01.DGN  
TAMPA111-CSPMCCF.DGN  
14/09/11.DGN

12-180-33-34-IB-01.DGN  
12-180-33-34-IB-01.DGN

TAMPA HARBOR, FLORIDA  
ALAFIA RIVER  
**HYDROGRAPHIC EXAM SURVEY FY12  
33 AND 34-FOOT PROJECT**  
INDEX, LOCATION AND VICINITY  
MAP

Scale: AS SHOWN  
Drawing no.  
**1**  
SHEET 01 OF 08



Zone	1	2	3	4	5	6	7	8	9	10
Grid	A	B	C	D	E	F	G	H	I	J

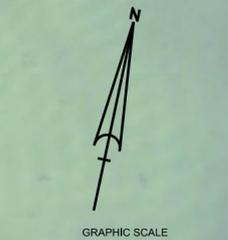
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

Checked by: GR  
Designed by: GRM  
Drawn by: WRM  
Plot Date: JAN 2013  
Project: 12-180A-V-SH02.DGN

12-180A-V-SH02.DGN  
TAMPA HARBOR, FLORIDA  
ALAFIA RIVER  
HYDROGRAPHIC EXAM SURVEY FY12  
33 AND 34-FOOT PROJECT  
PLAN  
STA. 0+00 THRU STA. 18+00 ALAFIA RIVER CHANNEL

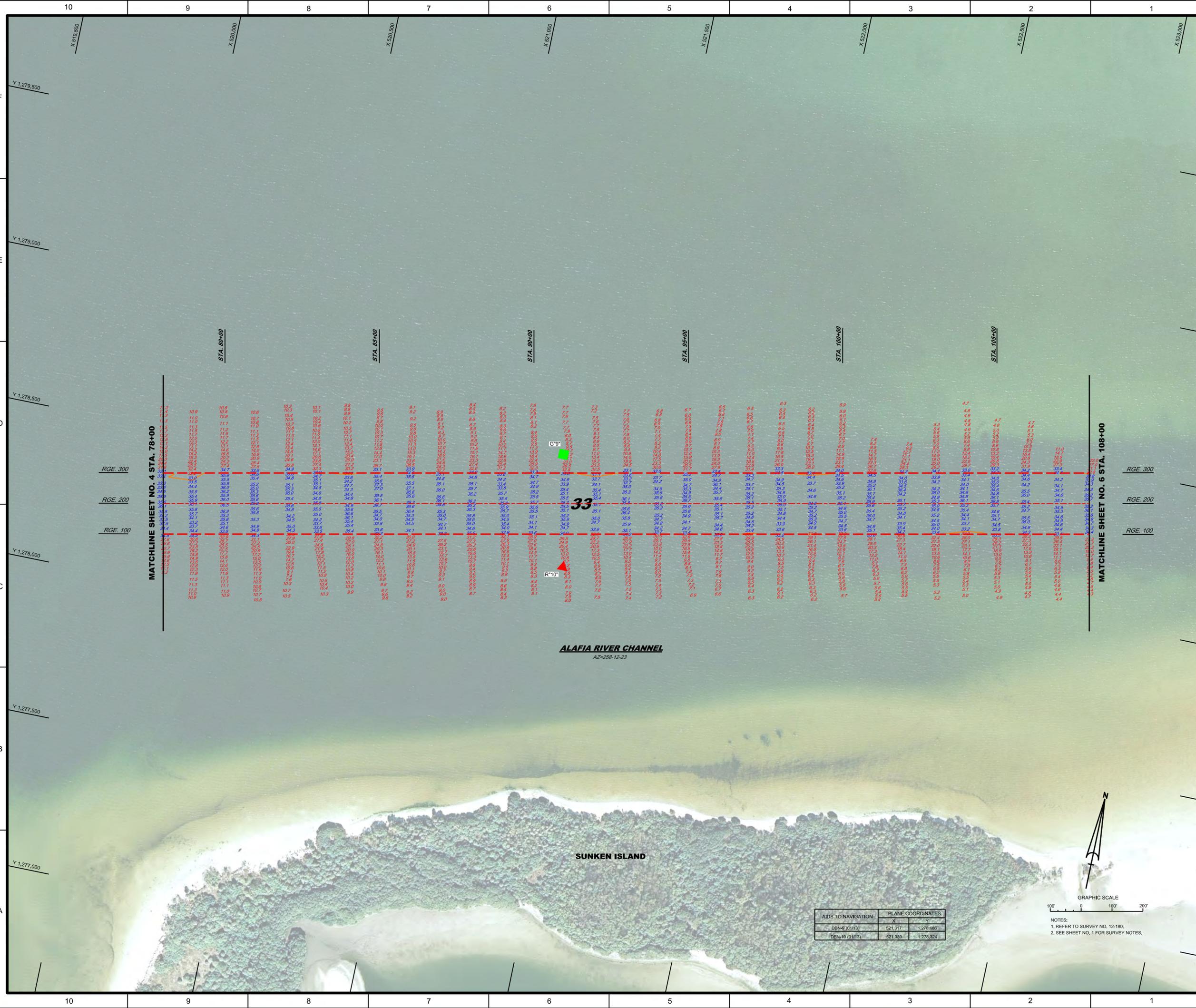
Scale: AS SHOWN  
Drawing no.  
**2**

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
NUN BUOY-2 (01/13)	513,185	1,276,008
CAN BUOY-3 (01/13)	512,997	1,276,868
LT. BUOY-4 (01/13)	514,219	1,276,883
LT. BUOY-20 (01/13)	512,602	1,275,575
LT. BUOY-21C (01/13)	512,229	1,277,009
LT. BUOY-22 (01/13)	512,699	1,277,091









MATCHLINE SHEET NO. 4 STA. 78+00

MATCHLINE SHEET NO. 6 STA. 108+00

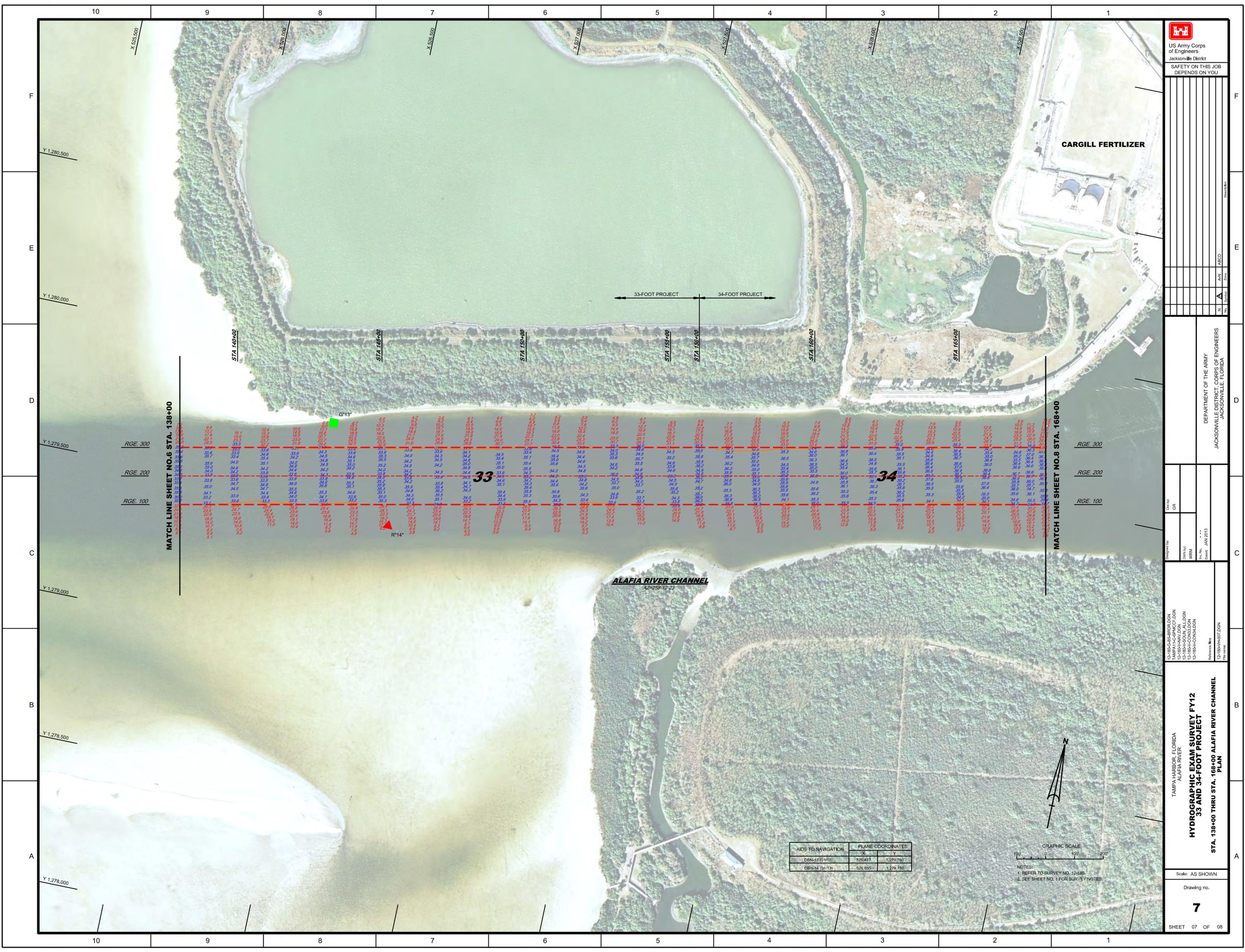
ALAFIA RIVER CHANNEL  
 AZ-258-12-23

SUNKEN ISLAND

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-8 (01/13)	521,317	1,278,686
DBN-10 (01/13)	521,339	1,276,324

GRAPHIC SCALE  
 100' 0 100' 200'  
 NOTES:  
 1. REFER TO SURVEY NO. 12-180,  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.





MATCH LINE SHEET NO.6 STA. 138+00

MATCH LINE SHEET NO.8 STA. 168+00

Station	33	34
140+00	35.4	35.4
140+10	35.7	35.7
140+20	35.0	35.0
140+30	34.4	34.4
140+40	33.8	33.8
140+50	35.0	35.0
140+60	34.1	34.1
140+70	33.2	33.2
140+80	34.1	34.1
140+90	33.9	33.9
141+00	33.6	33.6
141+10	33.9	33.9
141+20	34.7	34.7
141+30	33.8	33.8
141+40	34.4	34.4
141+50	33.9	33.9
141+60	34.2	34.2
141+70	34.0	34.0
141+80	34.2	34.2
141+90	34.2	34.2
142+00	34.2	34.2
142+10	34.2	34.2
142+20	34.2	34.2
142+30	34.2	34.2
142+40	34.2	34.2
142+50	34.2	34.2
142+60	34.2	34.2
142+70	34.2	34.2
142+80	34.2	34.2
142+90	34.2	34.2
143+00	34.2	34.2
143+10	34.2	34.2
143+20	34.2	34.2
143+30	34.2	34.2
143+40	34.2	34.2
143+50	34.2	34.2
143+60	34.2	34.2
143+70	34.2	34.2
143+80	34.2	34.2
143+90	34.2	34.2
144+00	34.2	34.2
144+10	34.2	34.2
144+20	34.2	34.2
144+30	34.2	34.2
144+40	34.2	34.2
144+50	34.2	34.2
144+60	34.2	34.2
144+70	34.2	34.2
144+80	34.2	34.2
144+90	34.2	34.2
145+00	34.2	34.2
145+10	34.2	34.2
145+20	34.2	34.2
145+30	34.2	34.2
145+40	34.2	34.2
145+50	34.2	34.2

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JACKSONVILLE, FLORIDA

Checked by: GR

Designed by: [Name]

DRAWN BY: WRM

DATE: JAN 2013

Scale: AS SHOWN

Drawing no. **7**

SHEET 07 OF 08

12-180A-08-BRDOLDGN  
TAMPA HARBOR, FLORIDA  
ALAFIA RIVER

12-180A-08-CON33OLDGN  
12-180A-08-CON34OLDGN

HYDROGRAPHIC EXAM SURVEY FY12  
33 AND 34-FOOT PROJECT  
STA. 138+00 THRU STA. 168+00 ALAFIA RIVER CHANNEL  
PLAN

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-19 (01/13)	526,437	1,279,780
DBN-14 (01/13)	526,895	1,279,780

