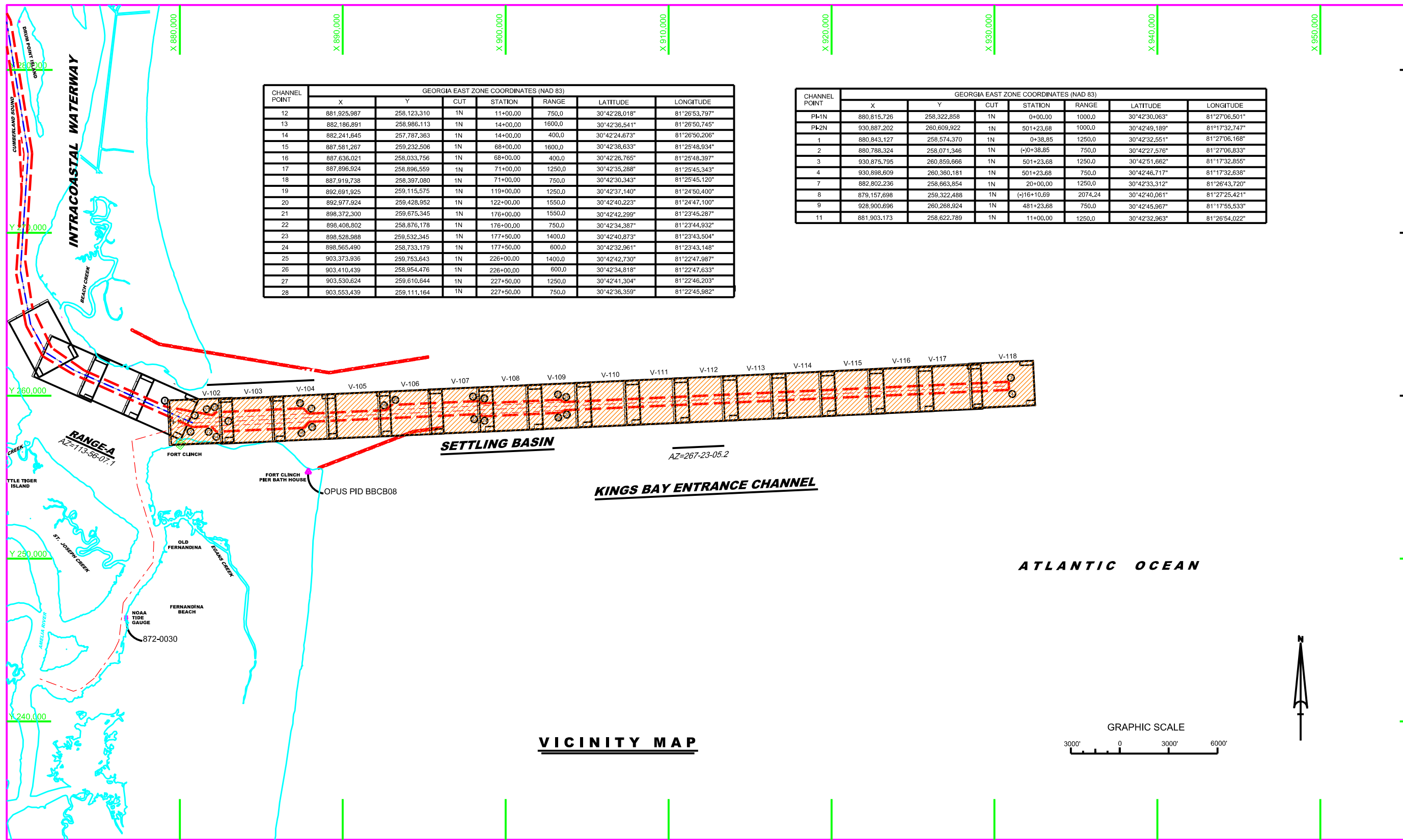
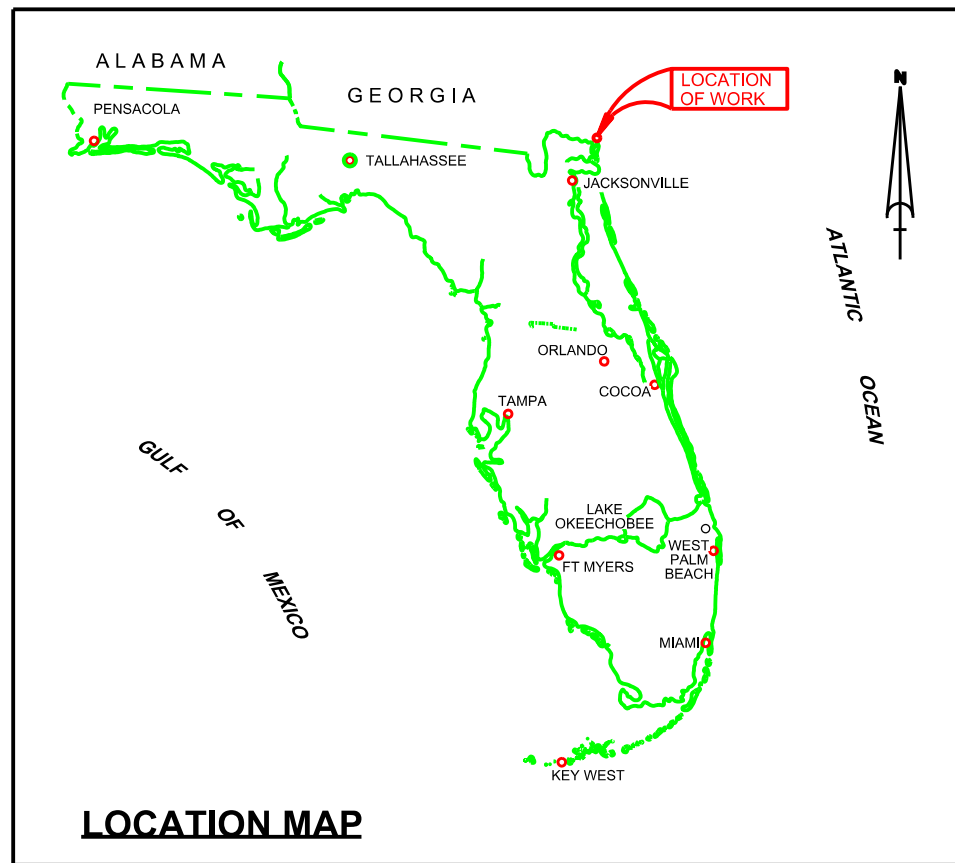


KINGS BAY ENTRANCE CHANNEL

1ST QUARTER FY14

HYDROGRAPHIC EXAM SURVEY



CHANNEL POINT	GEORGIA EAST ZONE COORDINATES (NAD 83)						
	X	Y	CUT	STATION	RANGE	LONGITUDE	
12	881,925,987	258,123,310	1N	11+00.00	750.0	30°42'28.018"	81°26'53.797"
13	882,186,891	258,986,113	1N	14+00.00	1600.0	30°42'36.541"	81°26'50.745"
14	882,241,645	257,787,363	1N	14+00.00	400.0	30°42'24.673"	81°26'50.206"
15	887,581,287	259,232,506	1N	68+00.00	1800.0	30°42'38.633"	81°28'48.934"
16	887,636,021	258,033,756	1N	68+00.00	400.0	30°42'26.765"	81°28'48.397"
17	887,896,924	258,896,559	1N	71+00.00	1250.0	30°42'35.288"	81°28'45.343"
18	887,819,738	258,397,080	1N	71+00.00	750.0	30°42'30.343"	81°28'45.123"
19	892,691,925	259,115,575	1N	119+00.00	1250.0	30°42'31.140"	81°28'40.407"
20	892,977,924	259,428,952	1N	122+00.00	1550.0	30°42'40.223"	81°28'47.107"
21	898,372,320	259,875,345	1N	176+00.00	1550.0	30°42'42.299"	81°28'45.287"
22	898,408,802	258,876,178	1N	176+00.00	750.0	30°42'34.387"	81°28'44.922"
23	898,628,888	259,532,345	1N	177+50.00	1400.0	30°42'40.873"	81°28'43.504"
24	898,665,490	258,733,179	1N	177+50.00	600.0	30°42'32.961"	81°28'43.148"
25	903,373,935	259,753,643	1N	226+00.00	1400.0	30°42'42.730"	81°22'47.687"
26	903,410,439	258,954,476	1N	226+00.00	600.0	30°42'34.818"	81°22'47.633"
27	903,530,624	259,610,644	1N	227+50.00	1250.0	30°42'41.304"	81°22'46.203"
28	903,553,439	259,111,164	1N	227+50.00	750.0	30°42'36.359"	81°22'45.982"

CHANNEL POINT	GEORGIA EAST ZONE COORDINATES (NAD 83)						
	X	Y	CUT	STATION	RANGE	LONGITUDE	
PH-1N	880,815,726	258,322,858	1N	0+00.00	1000.0	30°42'30.063"	81°27'06.501"
PH-2N	930,887,202	260,609,922	1N	50+23.68	1000.0	30°42'49.189"	81°17'32.747"
1	880,843,127	258,574,370	1N	0+38.85	1250.0	30°42'32.551"	81°27'06.168"
2	880,788,324	258,071,346	1N	(+0)+38.85	750.0	30°42'27.570"	81°27'06.833"
3	930,875,795	260,859,666	1N	50+23.68	1250.0	30°42'51.682"	81°17'32.855"
4	930,888,609	260,360,181	1N	50+23.68	750.0	30°42'46.717"	81°17'32.638"
7	882,802,230	258,663,854	1N	20+00.00	1250.0	30°42'33.312"	81°28'43.720"
8	879,157,698	259,322,488	1N	(+16)+10.69	2074.24	30°42'40.061"	81°27'25.421"
9	928,900,696	260,268,824	1N	48+23.68	750.0	30°42'45.967"	81°17'55.333"
11	881,903,173	258,622,789	1N	11+00.00	1250.0	30°42'32.963"	81°26'54.022"

MAP SHEET NOTES:

- REFER TO SURVEY NO. 14-003.
 - DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001, 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 BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:
NOAA TIDAL STATION: 872-0030 FERNANDINA BEACH, AMELIA RIVER, FLORIDA FOR CUT-IN.
 - 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 (KTD) FILE. FILE NAME: KINGSBAY-2013 06 10.KTD.
 - PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
 - 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 GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:
REFERENCE BASE LOCATED AT "BATH HOUSE ARP", OPUS PID: BBCB08, FOR ENTIRE PROJECT
OPUS PID: BBCK39
 - VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2024 MULTIBEAM SYSTEM AND A ROSS MODEL 835 SMART SOUNDER WITH DUAL-FREQUENCY (28/200 KHZ) TRANSDUCER. SOUNDINGS SHOWN IN ARE IN HIGH FREQUENCY FROM STA. 0+00 TO STA. 199+00 AND STA. 351+00 TO STA. 501+23 AND LOW FREQUENCY FROM STA. 200+00 TO STA. 350+00.
- | SURVEY VESSEL | DATE OF SURVEY | AREA SURVEYED |
|---------------|----------------|----------------------------------|
| FLORIDA II | 22 OCT 2013 | CUT-IN, STA 0+00 TO STA 72+00 |
| FLORIDA II | 24 OCT 2013 | CUT-IN, STA 72+00 TO STA 202+00 |
| FLORIDA II | 25 OCT 2013 | CUT-IN, STA 350+00 TO STA 502+00 |
| FLORIDA II | 26 OCT 2013 | CUT-IN, STA 198+00 TO 250+00 |
| FLORIDA II | 29 OCT 2013 | CUT-IN, STA 251+00 TO 350+00 |
- 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 SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
 - SURVEY ACCURACY 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 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 10.

LEGEND

• BM	BENCHMARK
□	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
●	RED LIGHTED BUOY
●	GREEN LIGHTED BUOY
○	CAN BUOY
○	NUN BUOY
○	TIDE STAFF



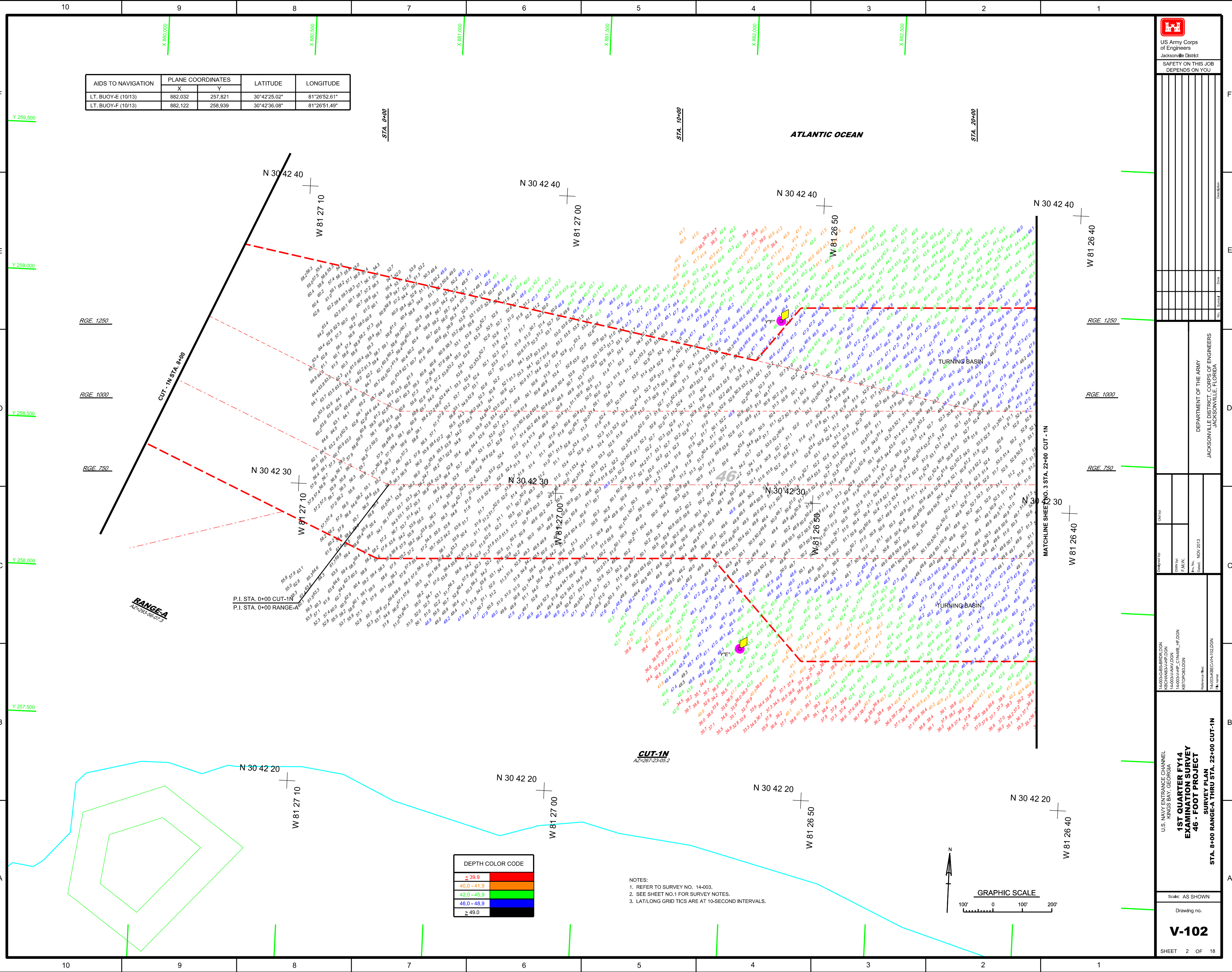
US Army Corps of Engineers
Jacksonville District
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA
1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT
INDEX, LOCATION & VICINITY MAP

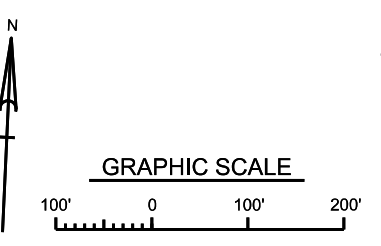
Scale: AS SHOWN
Drawing no.
V-101
SHEET 1 OF 18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-E (10/13)	882,032	257,821	30°42'25.02"	81°26'52.61"
LT. BUOY-F (10/13)	882,122	258,939	30°42'36.08"	81°26'51.49"

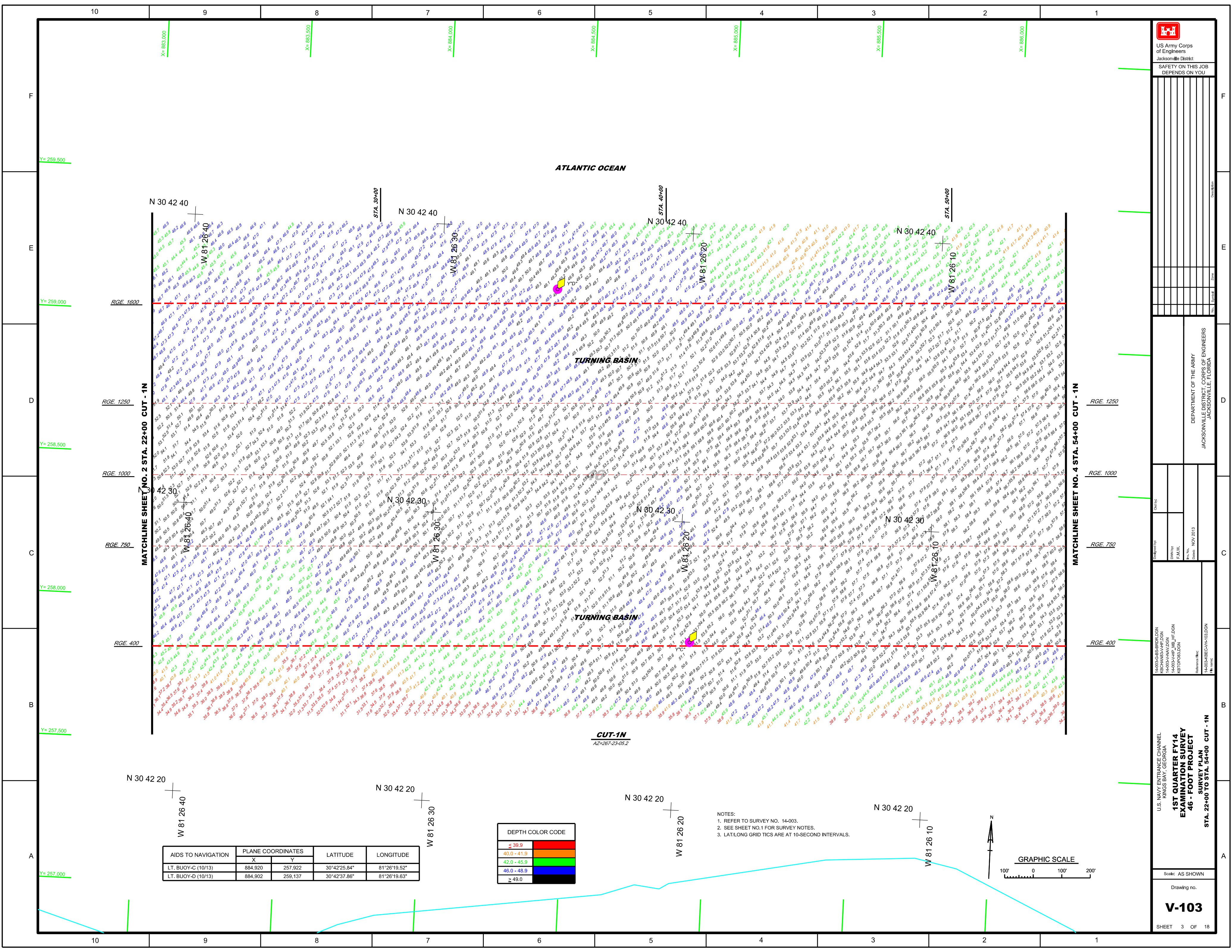


DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue

NOTES:
1. REFER TO SURVEY NO. 14-003.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



Checked by:	14-003-CBS-BRDR.DGN
Drawn by:	KSICHINSKI@P.DGN
Field No.:	14-003-CHP-CYNAE_HF.DGN
Date:	8/10/2013
Project:	14-003-REC-VH-102.DGN



MATCHLINE SHEET NO. 2 STA. 22+00 CUT - 1N

MATCHLINE SHEET NO. 4 STA. 54+00 CUT - 1N

ATLANTIC OCEAN

TURNING BASIN

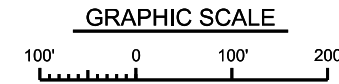
TURNING BASIN

CUT-1N
AZ=267-23-05.2

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-C (10/13)	884,920	257,922	30°42'25.84"	81°26'19.52"
LT. BUOY-D (10/13)	884,902	259,137	30°42'37.86"	81°26'19.63"

DEPTH COLOR CODE	
≤ 39.9	
40.0 - 41.9	
42.0 - 45.9	
46.0 - 48.9	
≥ 49.0	

- NOTES:
- REFER TO SURVEY NO. 14-003.
 - SEE SHEET NO.1 FOR SURVEY NOTES.
 - LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



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U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA

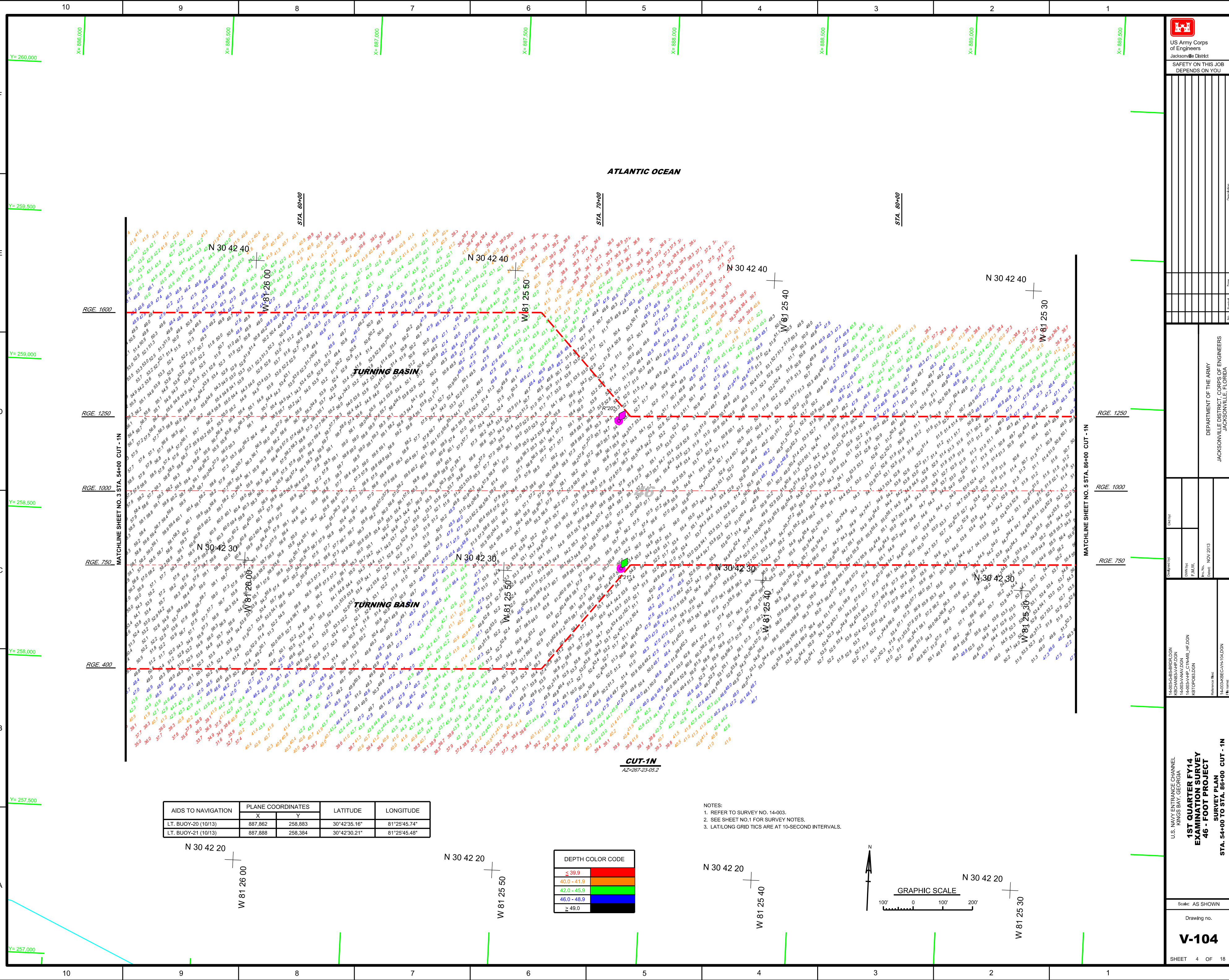
**1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT**

SURVEY PLAN
STA. 22+00 TO STA. 54+00 CUT - 1N

Scale: AS SHOWN

V-103

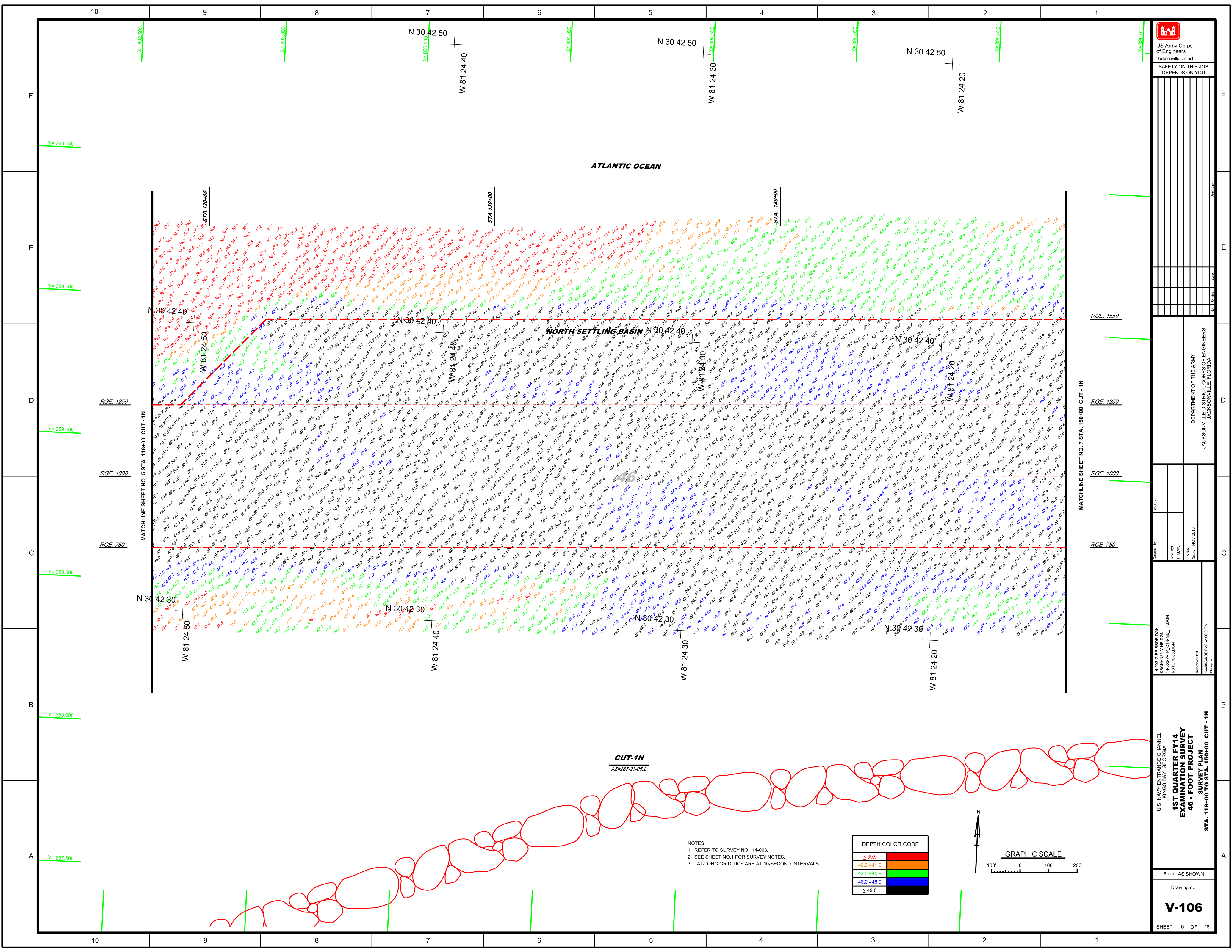
SHEET 3 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-20 (10/13)	887,862	258,883	30°42'35.16"	81°25'45.74"
LT. BUOY-21 (10/13)	887,888	258,384	30°42'30.21"	81°25'45.48"

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

- NOTES:
1. REFER TO SURVEY NO. 14-003.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



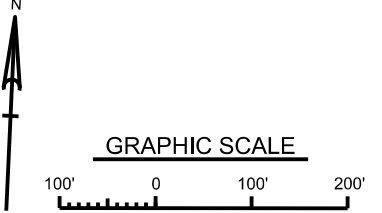
ATLANTIC OCEAN


NORTH SETTLING BASIN N 30 42 40

CUT-IN
AZ=267-23-05.2

- NOTES:
 1. REFER TO SURVEY NO. 14-003.
 2. SEE SHEET NO.1 FOR SURVEY NOTES.
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

DEPTH COLOR CODE	
< 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue





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 Jacksonville District
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 DEPENDS ON YOU

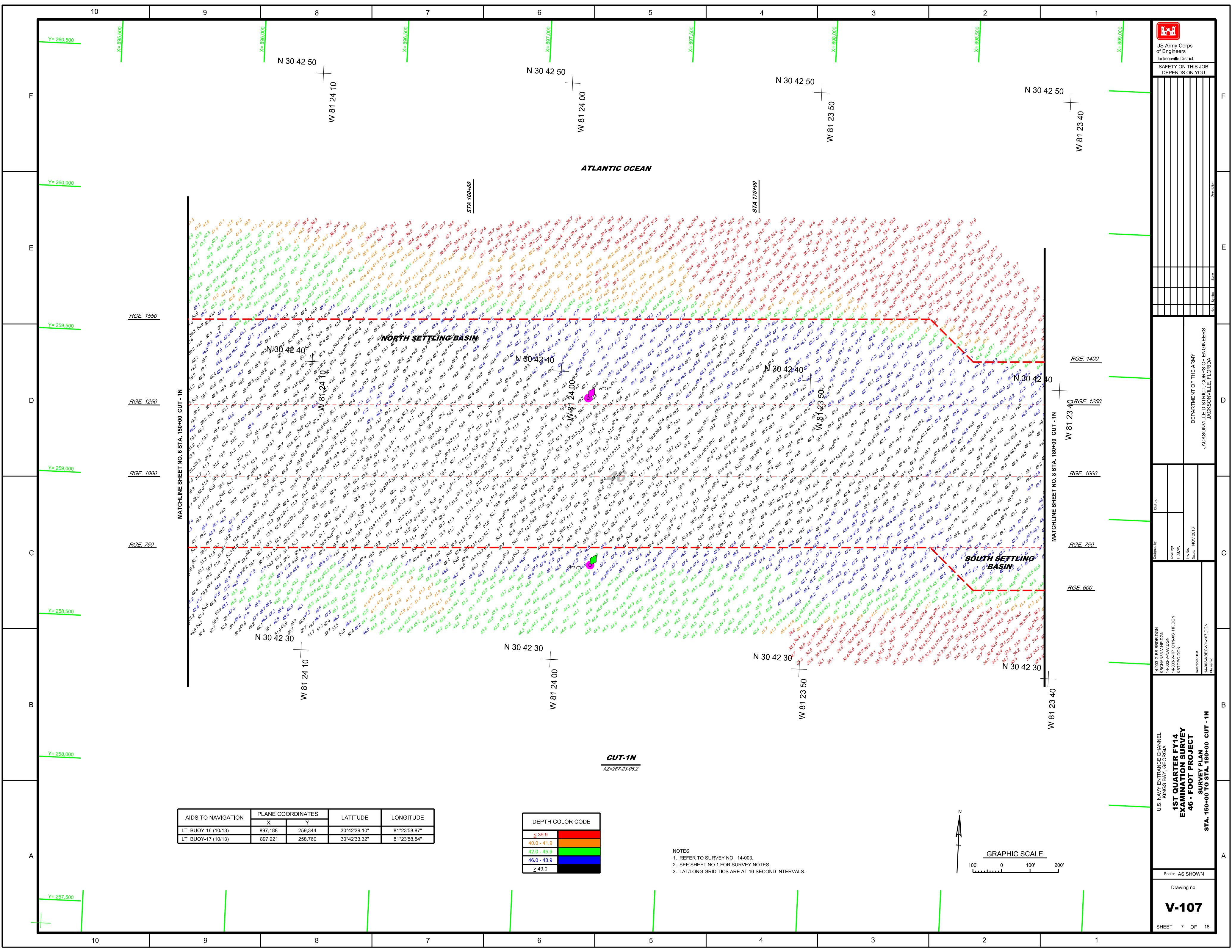
DEPARTMENT OF THE ARMY
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 JACKSONVILLE, FLORIDA

U.S. NAVY ENTRANCE CHANNEL
 KINGS BAY, GEORGIA
**1ST QUARTER FY14
 EXAMINATION SURVEY
 46 - FOOT PROJECT**
 SURVEY PLAN
 STA. 118+00 TO STA. 150+00 CUT - 1N

Scale: AS SHOWN

Drawing no.
V-106

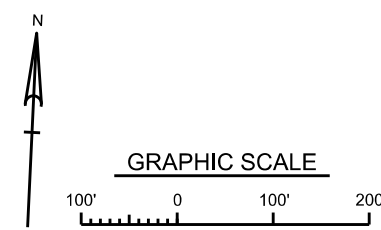
SHEET 6 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-16 (10/13)	897,188	259,344	30°42'39.10"	81°23'58.87"
LT. BUOY-17 (10/13)	897,221	258,760	30°42'33.32"	81°23'58.54"

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

- NOTES:
1. REFER TO SURVEY NO. 14-003.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



MATCHLINE SHEET NO. 6 STA. 150+00 CUT - IN

MATCHLINE SHEET NO. 8 STA. 180+00 CUT - IN

CUT-IN
AZ=267-23-05.2

DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA
14-003-CBS-BRDR.DGN
KITCHENS/HP/DGN
14-003-APP-CLINKS_HF.DGN
ASTOR/DGN
Date Plotted: NOV 2013

1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT
SURVEY PLAN
STA. 150+00 TO STA. 180+00 CUT - IN



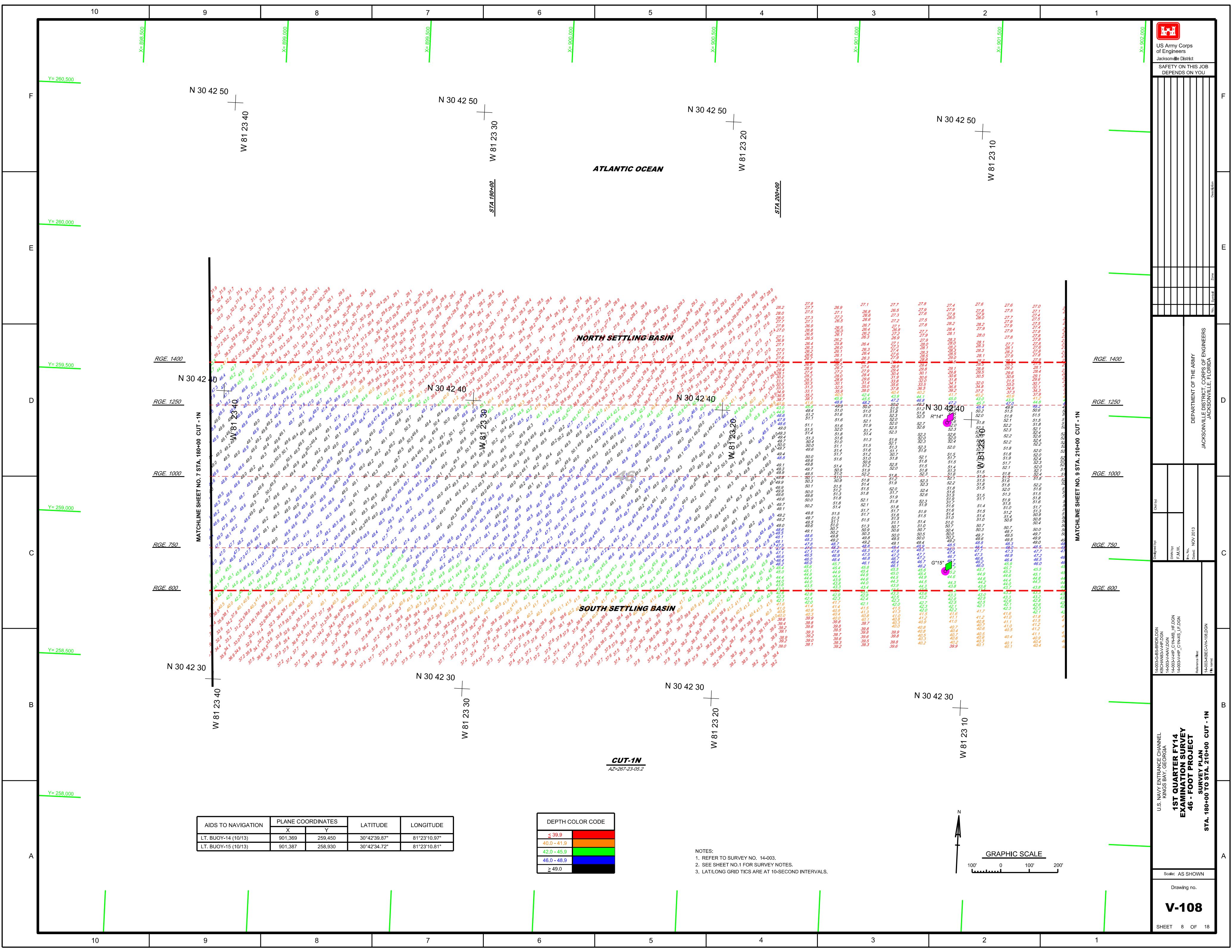
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JACKSONVILLE DISTRICT CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

14-003-CBS-BRDJ.DGN
KSCHEINBAVHP.DGN
14-003-APP_CNAMS_HF.DGN
14-003-APP_CNAMS_LF.DGN

U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA
**1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT**
SURVEY PLAN
STA. 180+00 TO STA. 210+00 CUT - 1N

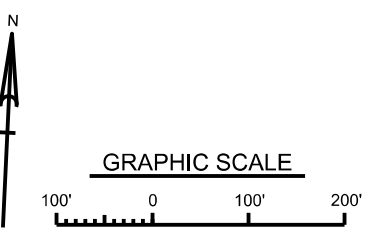
Scale: AS SHOWN
Drawing no.
V-108
SHEET 8 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-14 (10/13)	901,369	259,450	30°42'39.87"	81°23'10.97"
LT. BUOY-15 (10/13)	901,387	258,930	30°42'34.72"	81°23'10.81"

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

- NOTES:
1. REFER TO SURVEY NO. 14-003.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



CUT-1N
AZ=267-23-05.2

MATCHLINE SHEET NO. 7 STA. 180+00 CUT - 1N

MATCHLINE SHEET NO. 9 STA. 210+00 CUT - 1N

RGE. 1400

RGE. 1250

RGE. 1000

RGE. 750

RGE. 600

RGE. 1400

RGE. 1250

RGE. 1000

RGE. 750

RGE. 600

NORTH SETTLING BASIN

SOUTH SETTLING BASIN

N 30 42 50
W 81 23 40

N 30 42 50
W 81 23 30

N 30 42 50
W 81 23 20

N 30 42 50
W 81 23 10

N 30 42 40

N 30 42 40

N 30 42 40

N 30 42 40

N 30 42 30
W 81 23 40

N 30 42 30
W 81 23 30

N 30 42 30
W 81 23 20

N 30 42 30
W 81 23 10



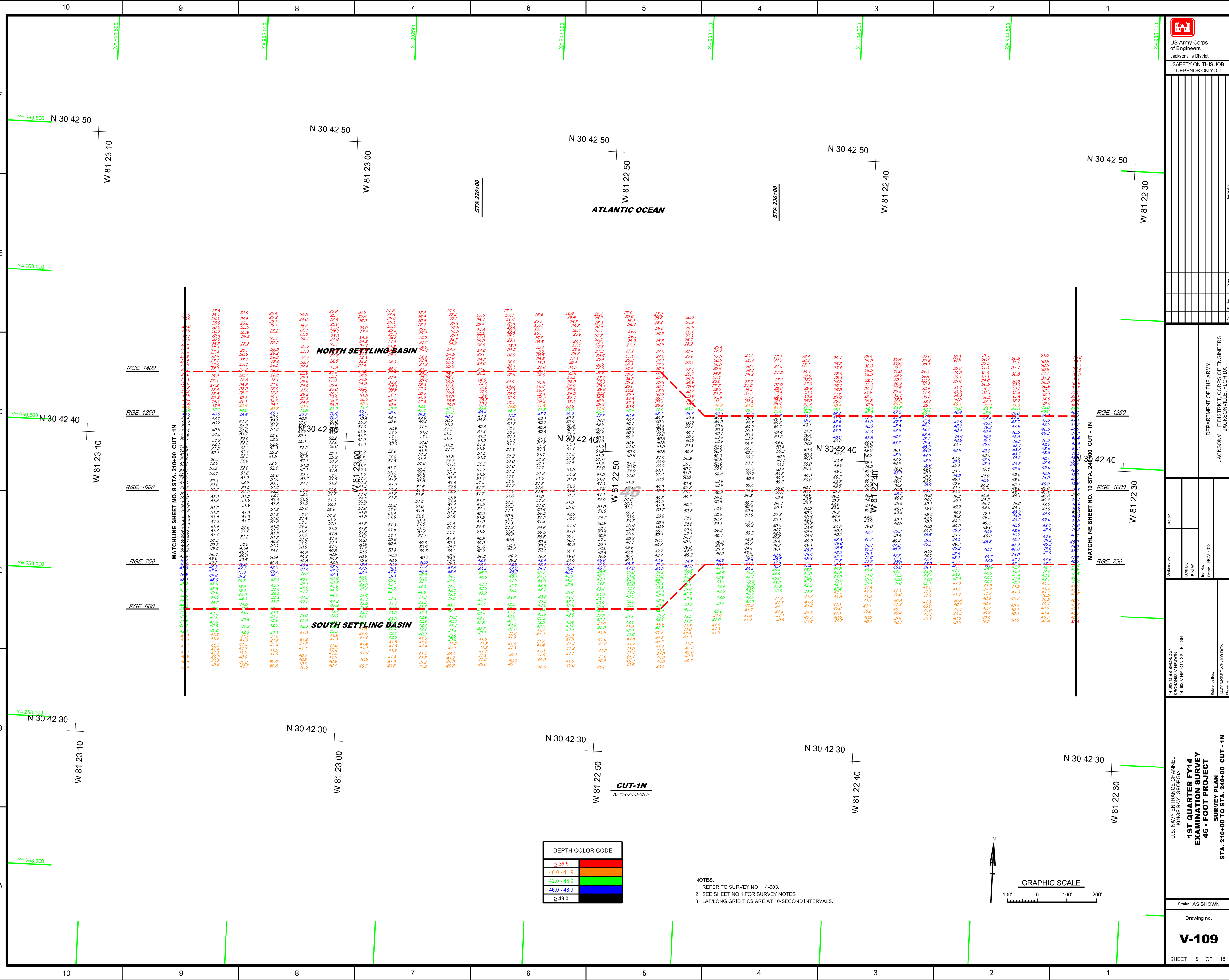
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U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA
14-000-CBS-BRDR.DGN
KSCHEINBAV4HP.DGN
14-000-APP_CTNAS_FL.DGN

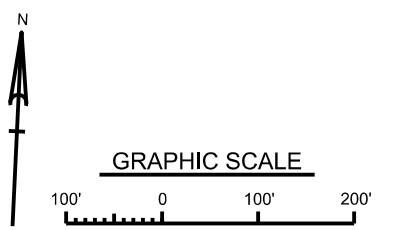
1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT
SURVEY PLAN
STA. 210+00 TO STA. 240+00 CUT - 1N

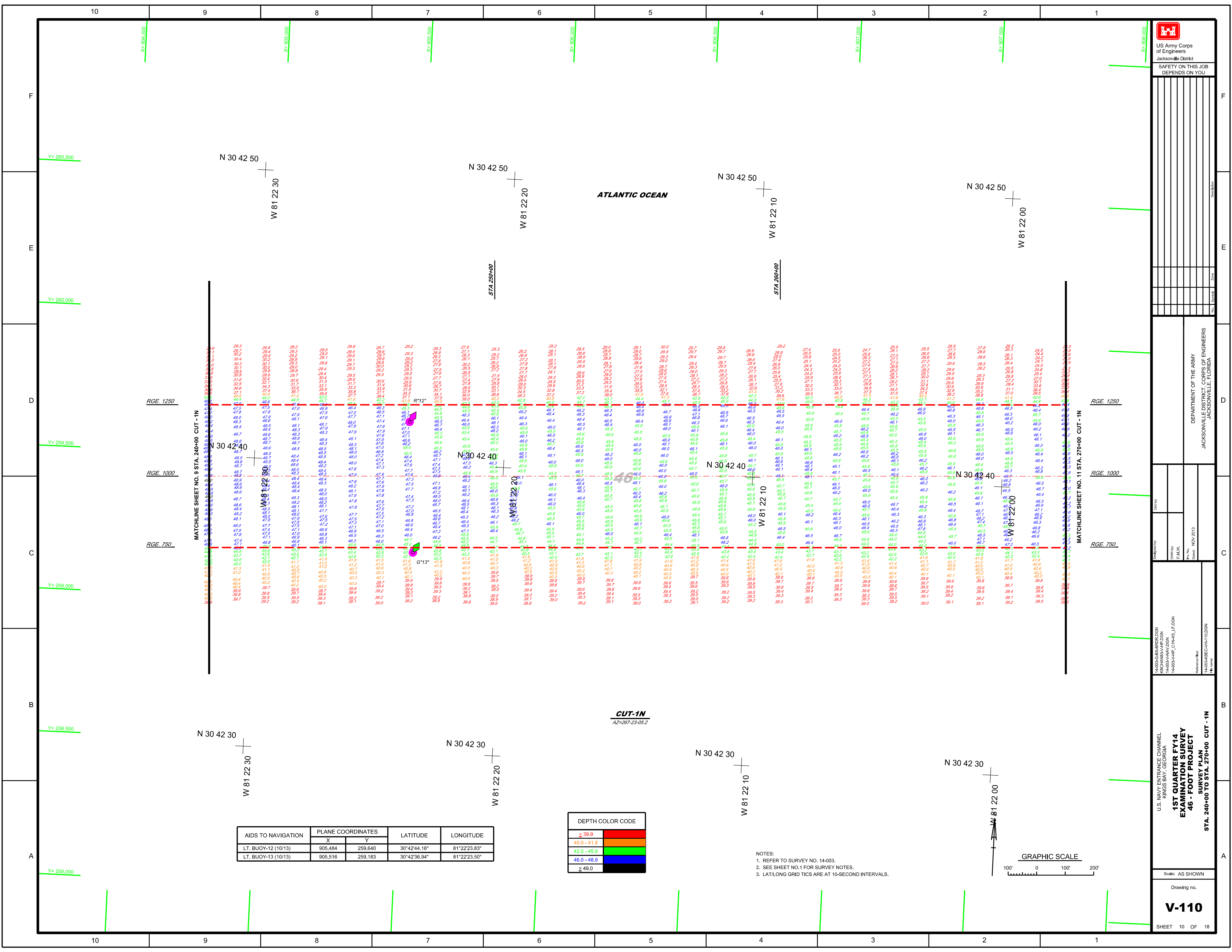
Scale: AS SHOWN
Drawing no.
V-109
SHEET 9 OF 18



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

NOTES:
1. REFER TO SURVEY NO. 14-003.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

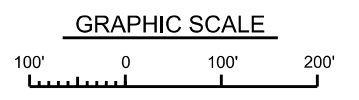




AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-12 (10/13)	905,484	259,640	30°42'44.16"	81°22'23.83"
LT. BUOY-13 (10/13)	905,516	259,183	30°42'36.94"	81°22'23.50"

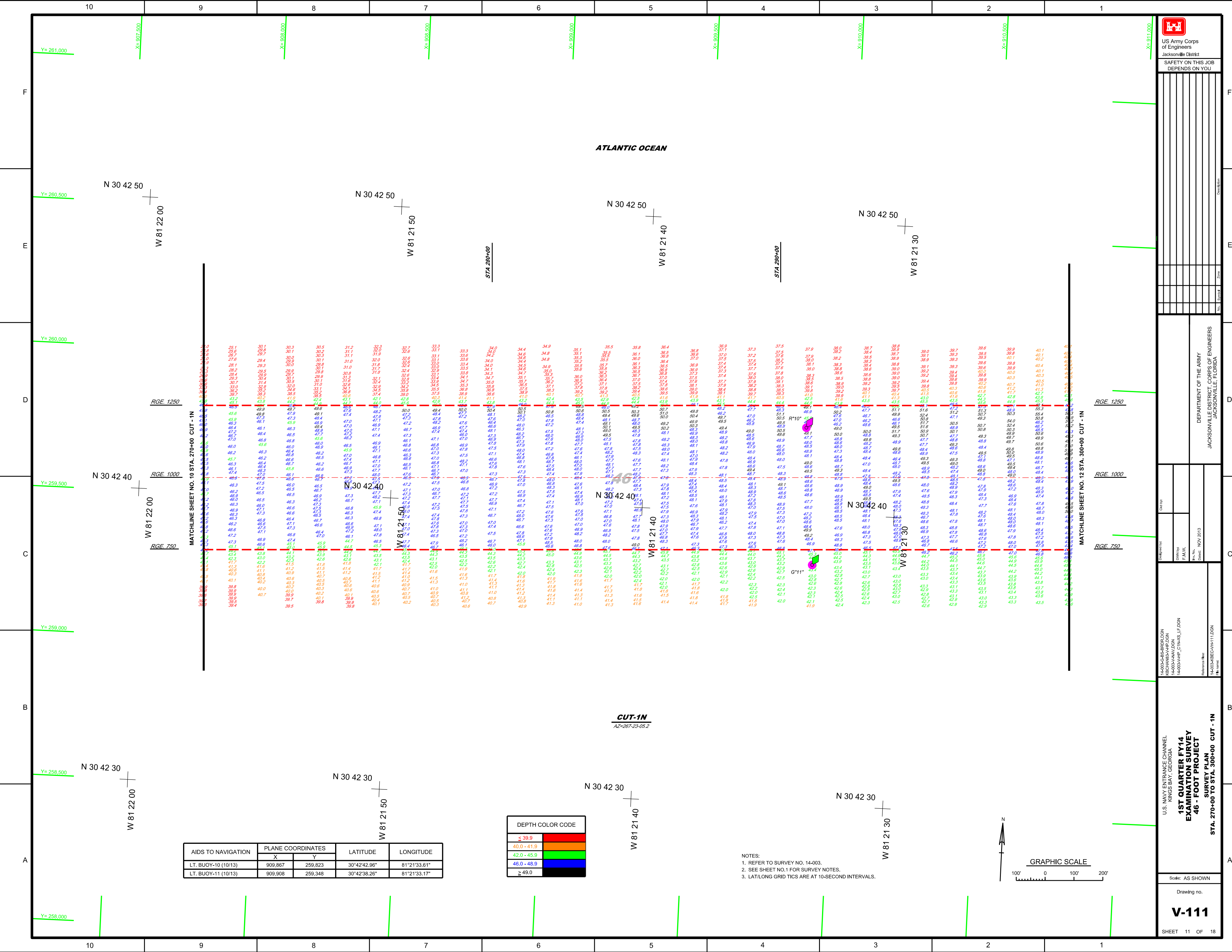
DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue

NOTES:
1. REFER TO SURVEY NO. 14-003.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



CUT-1N
AZ=267-23-05.2

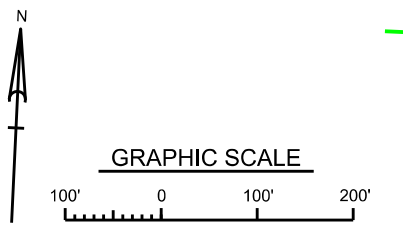
ATLANTIC OCEAN



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (10/13)	909,867	259,823	30°42'42.96"	81°21'33.61"
LT. BUOY-11 (10/13)	909,908	259,348	30°42'38.26"	81°21'33.17"

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

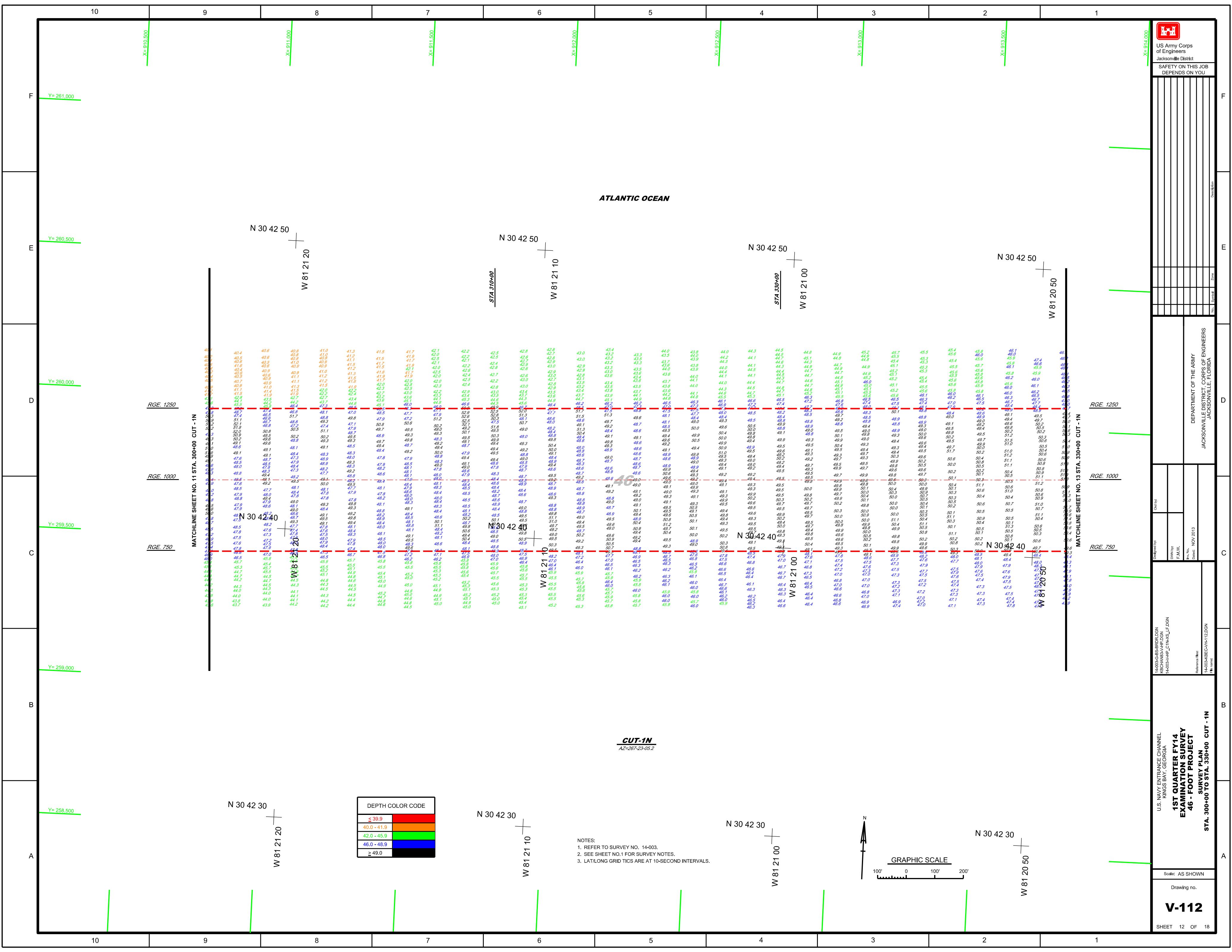
- NOTES:
- REFER TO SURVEY NO. 14-003.
 - SEE SHEET NO. 1 FOR SURVEY NOTES.
 - LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA
1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT
SURVEY PLAN
STA. 270+00 TO STA. 300+00 CUT - IN

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

Checked by: [Signature]
Designed by: [Signature]
Drawn by: [Signature]
F. J. M. W.
Nov. 2013



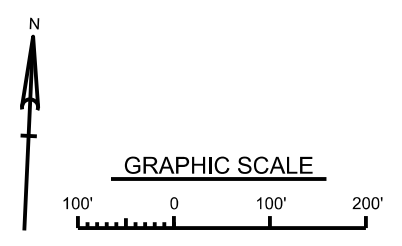
ATLANTIC OCEAN


MATCHLINE SHEET NO. 11 STA. 300+00 CUT - 1N

MATCHLINE SHEET NO. 13 STA. 330+00 CUT - 1N

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

- NOTES:
 1. REFER TO SURVEY NO. 14-003.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.





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JACKSONVILLE, FLORIDA

14-003-CBS-BRDR.DGN
KSCHEINBAV4P.DGN
14-003-CHP-271KASLFL.DGN

Checked By: [Blank]
 Drawn By: F.M.W.
 File No.: [Blank]
 Date: NOV 2013

U.S. NAVY ENTRANCE CHANNEL
KINGS BAY, GEORGIA

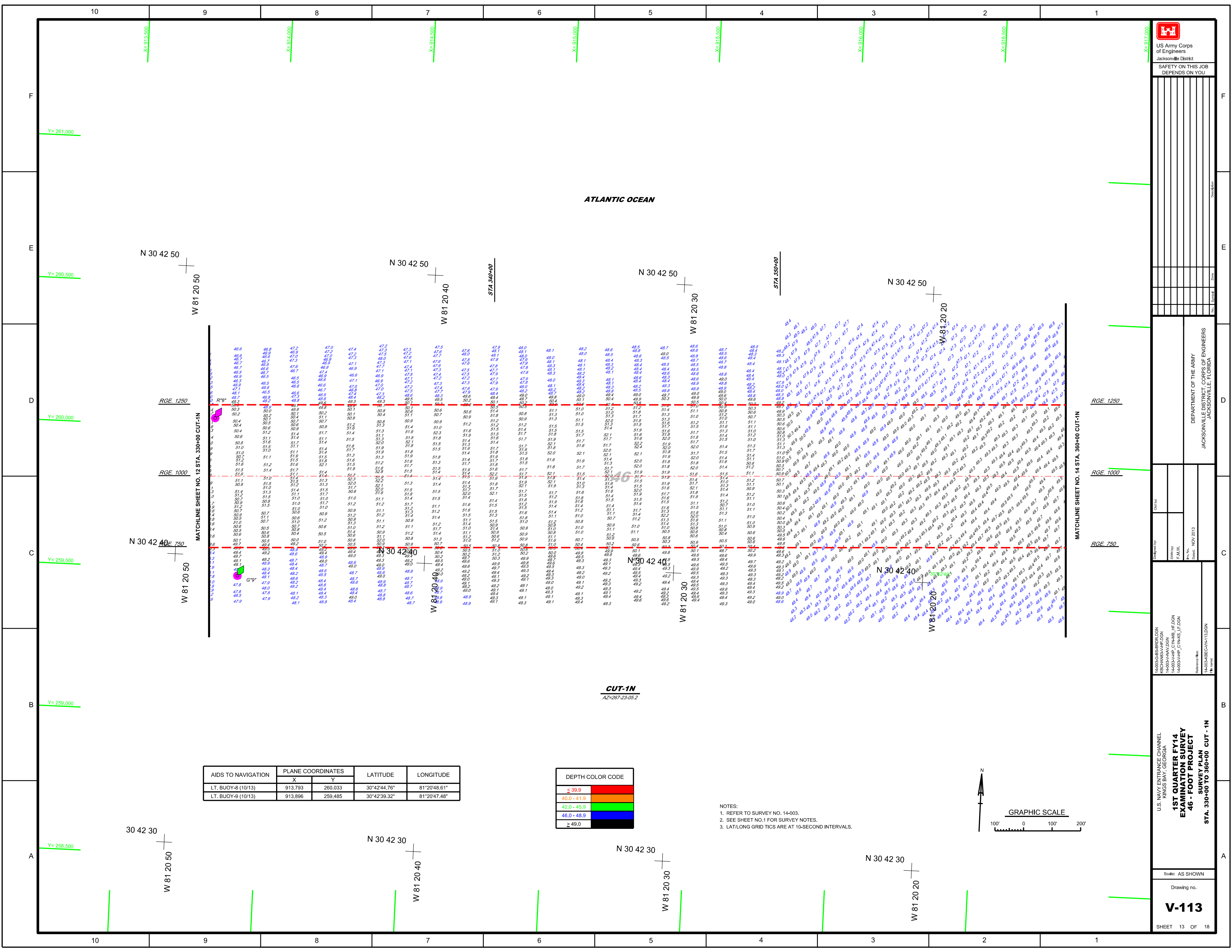
**1ST QUARTER FY14
EXAMINATION SURVEY
46 - FOOT PROJECT**

SURVEY PLAN
STA. 300+00 TO STA. 330+00 CUT - 1N

Scale: AS SHOWN

Drawing no.
V-112

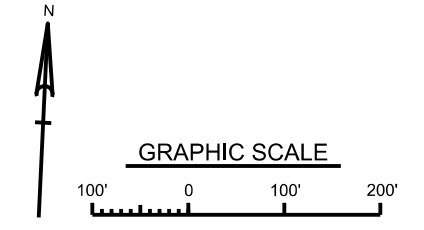
SHEET 12 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-8 (10/13)	913,793	260,033	30°42'44.76"	81°20'48.61"
LT. BUOY-9 (10/13)	913,896	259,485	30°42'39.32"	81°20'47.48"

DEPTH COLOR CODE
≤ 39.9
40.0 - 41.9
42.0 - 45.9
46.0 - 48.9
≥ 49.0

NOTES:
 1. REFER TO SURVEY NO. 14-003.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



US Army Corps of Engineers
 Jacksonville District

SAFETY ON THIS JOB
 DEPENDS ON YOU

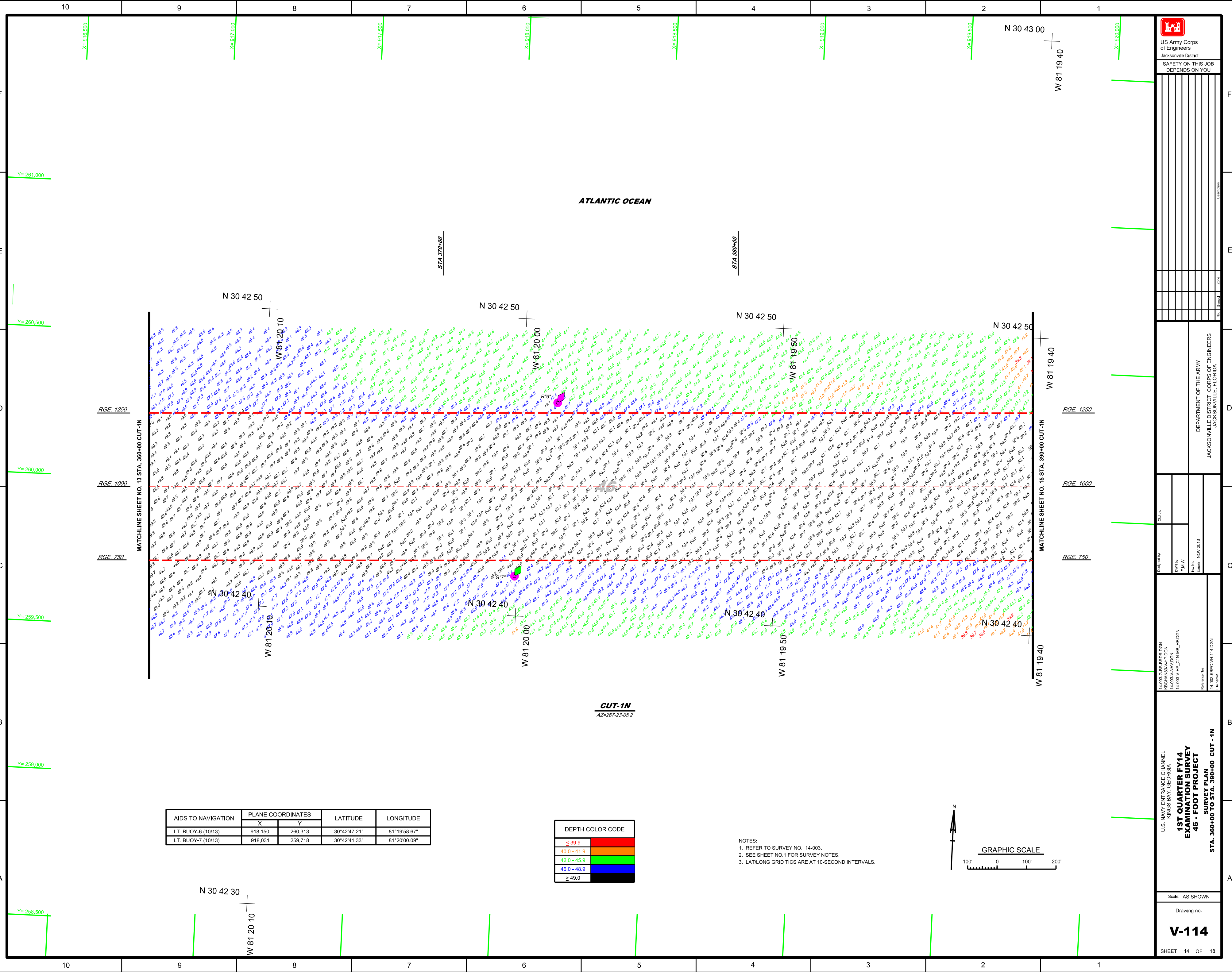
DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Designed by: 14-003-CBS-BRDJR.DGN
Drawn by: KSCHEINBAVHP.DGN
Field by: F.P.M.W.
Checked by: 14-003-VAP-CINARS_LF.DGN
Project Director: NOV 2013

Scale: AS SHOWN

Drawing no.
V-113

SHEET 13 OF 18



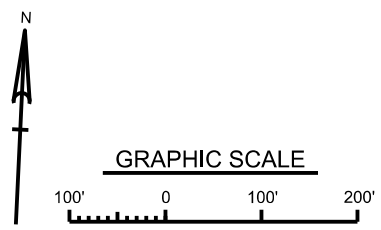
ATLANTIC OCEAN

CUT-1N
AZ=267-23-05.2

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-6 (10/13)	918,150	260,313	30°42'27.21"	81°19'58.67"
LT. BUOY-7 (10/13)	918,031	259,718	30°42'41.33"	81°20'00.09"

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

- NOTES:
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MATCHLINE SHEET NO. 13 STA. 360+00 CUT-N
RGE. 1250
RGE. 1000
RGE. 750

MATCHLINE SHEET NO. 15 STA. 390+00 CUT-N
RGE. 1250
RGE. 1000
RGE. 750

N 30 42 30
W 81 20 10

N 30 42 50
W 81 20 10

N 30 42 50
W 81 20 00

N 30 42 50
W 81 19 50

N 30 42 50
W 81 19 40

STA. 370+00

STA. 380+00

Y= 261,000

Y= 260,500

Y= 260,000

Y= 259,500

Y= 259,000

Y= 258,500

10

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8

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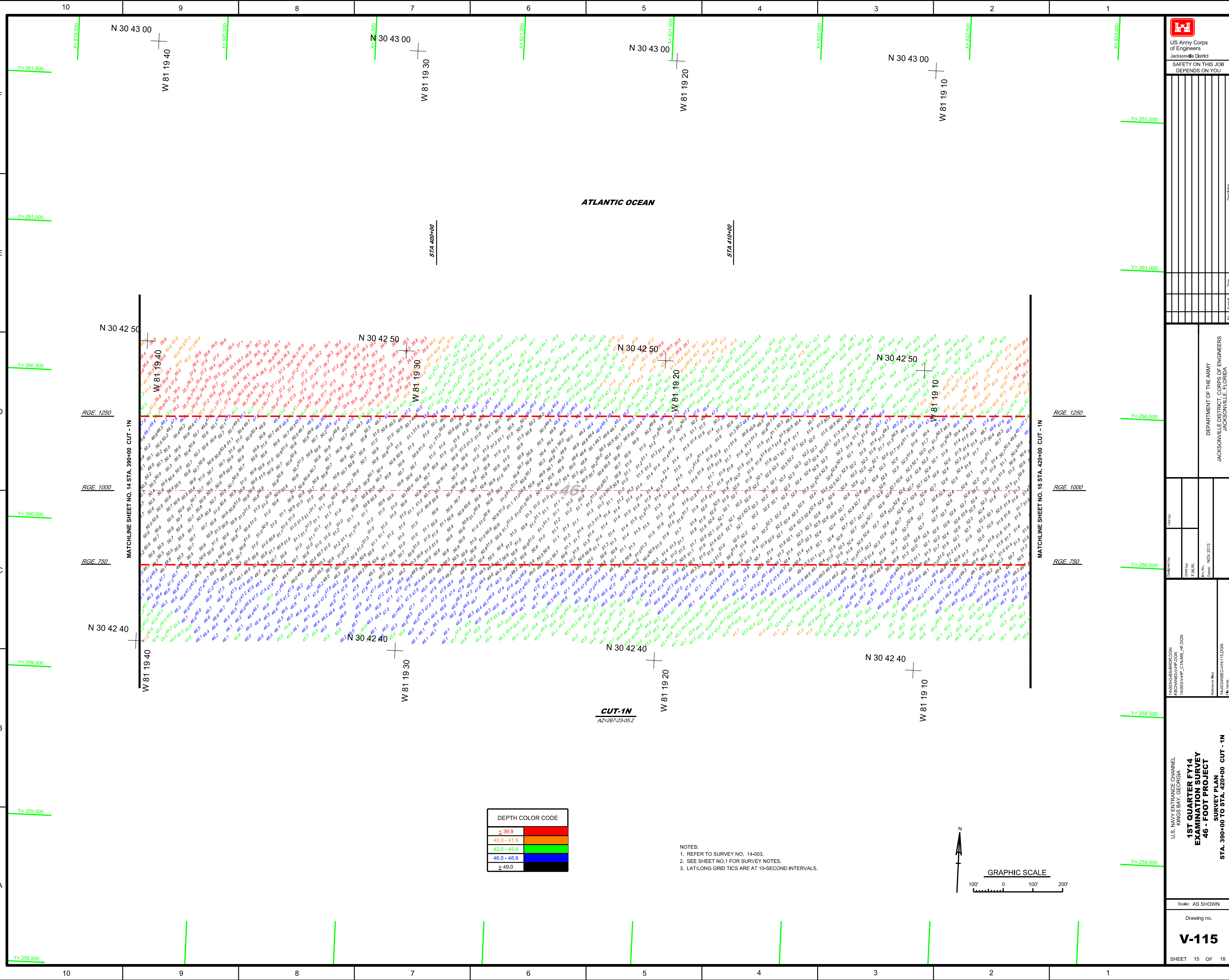
MT

D

C

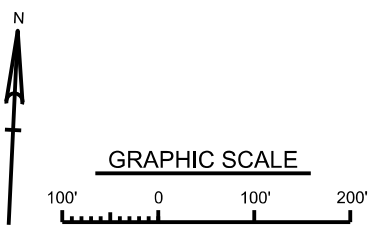
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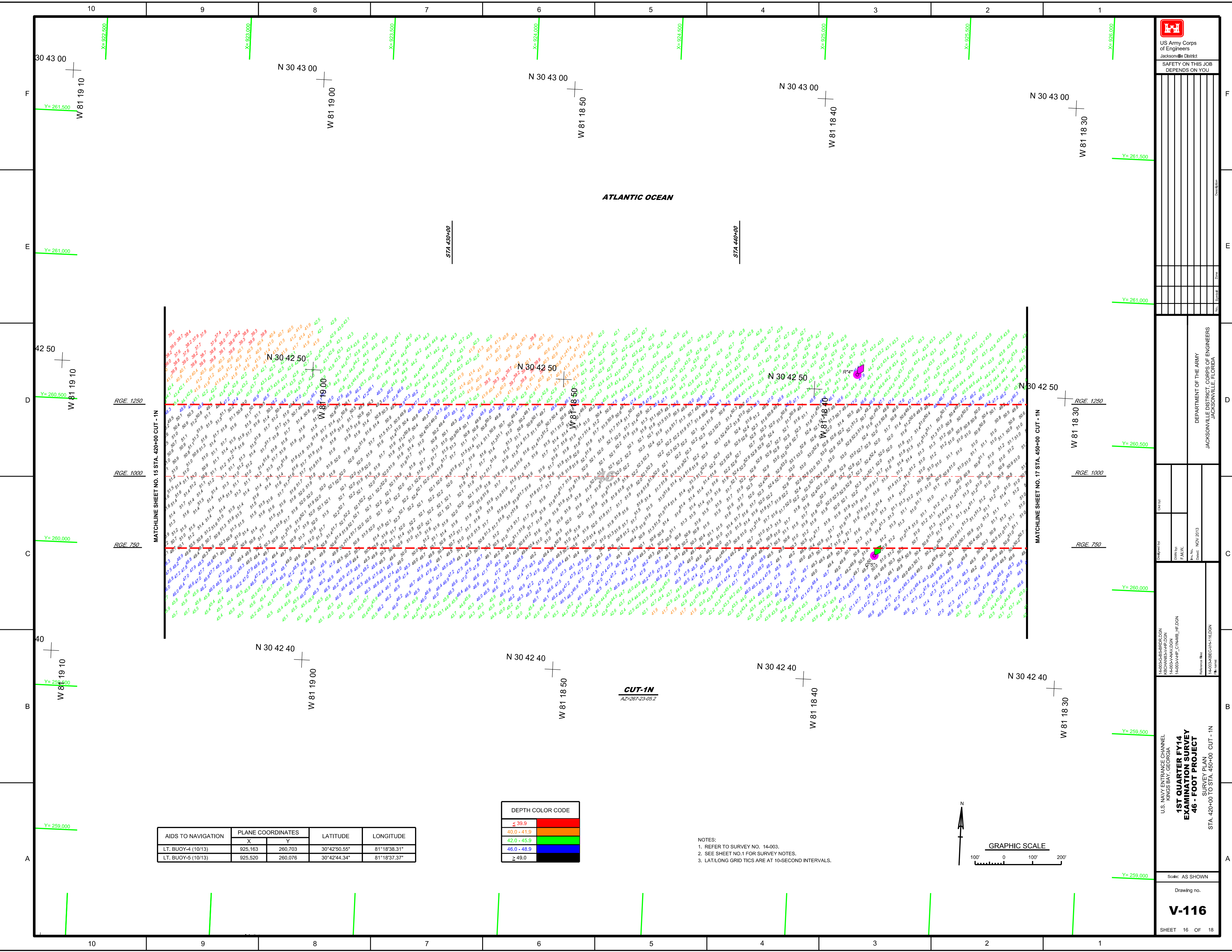
A



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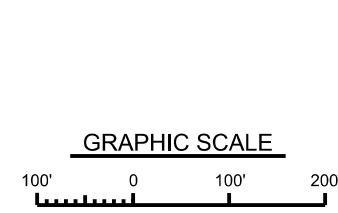


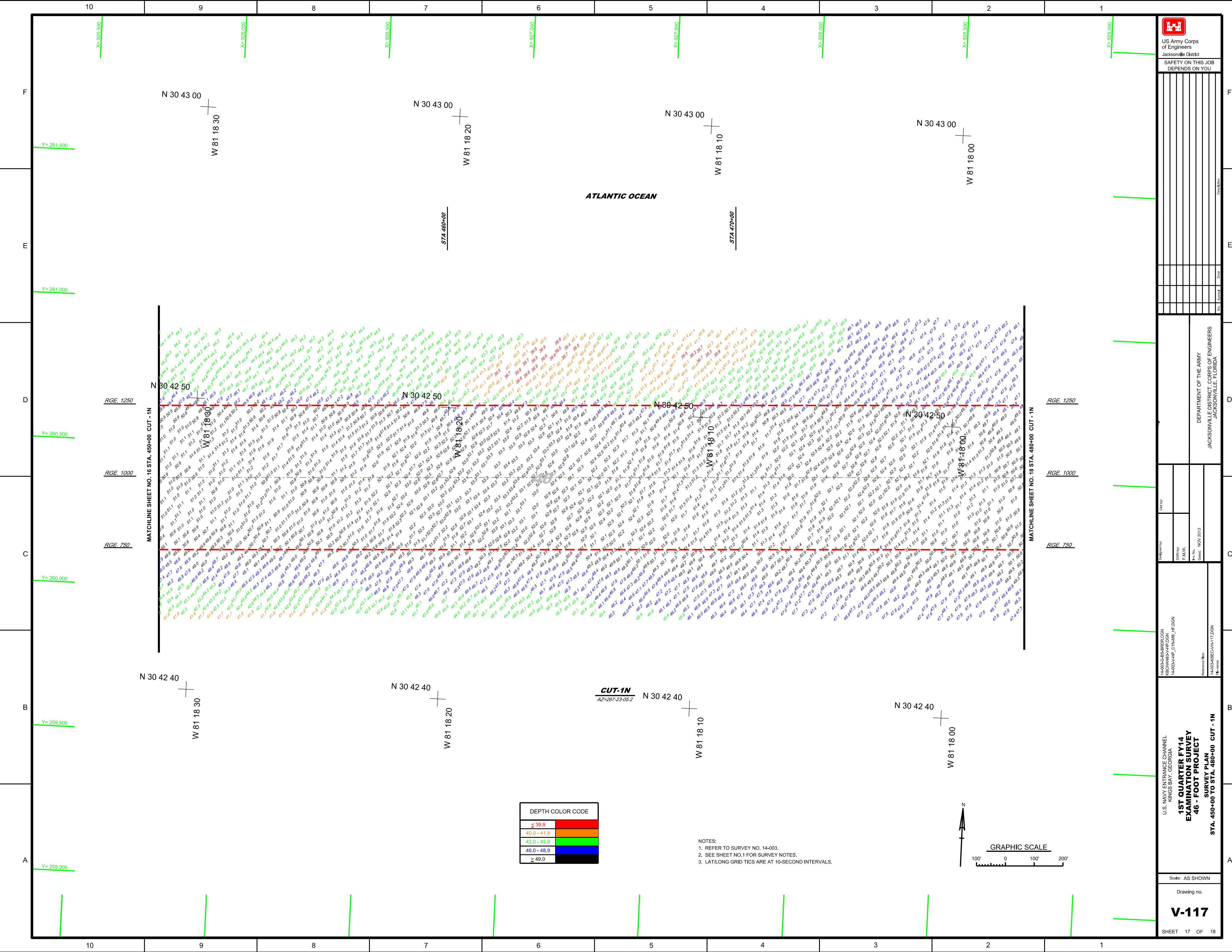


AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-4 (10/13)	925,163	260,703	30°42'50.55"	81°18'38.31"
LT. BUOY-5 (10/13)	925,520	260,076	30°42'44.34"	81°18'37.37"

DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
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