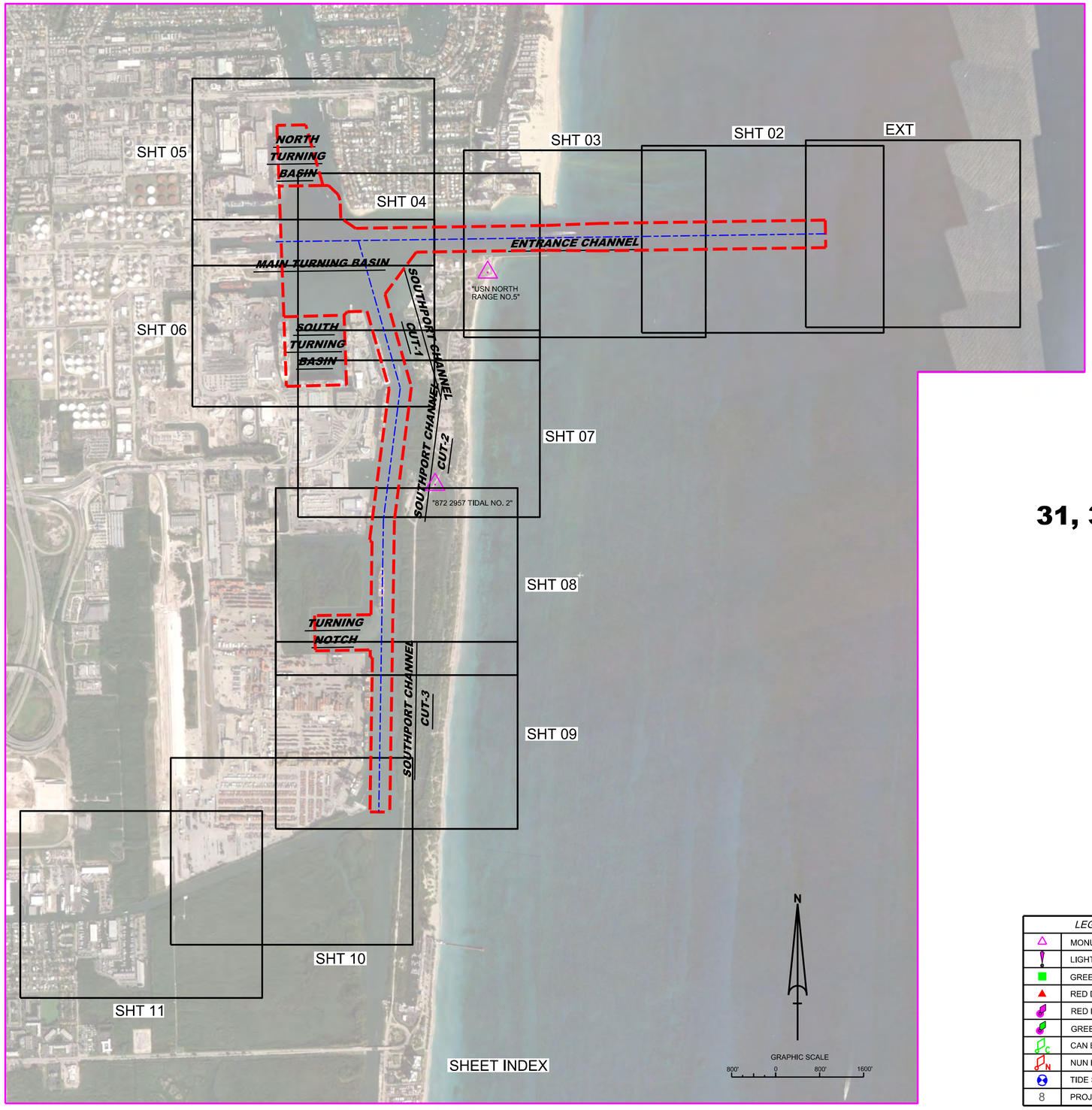
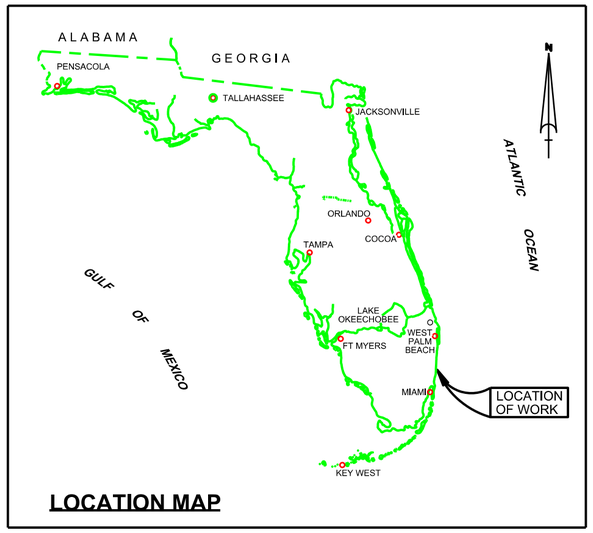




LOCATION MAP

PORT EVERGLADES HARBOR
BROWARD COUNTY, FLORIDA
EXAMINATION SURVEY FY14
31, 36, 37, 42 AND 45-FOOT PROJECT

LEGEND	
△	MONUMENT
	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
C	CAN BUOY
N	NUN BUOY
	TIDE STAFF
8	PROJECT DEPTH

SURVEY NOTES

1. REFER TO SURVEY NO. 14-132.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO THE NOAA REPORTED MEAN LOWER LOW WATER (MLLW) TIDAL DATUM, 1983-2001 EPOCH.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "PALMBEACH-BROWARD-20140529.KTD".
4. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "USN NORTH RANGE 2 NO. 5" (PID: BBCB27)

   TIDE STAFF SET IN JOHN LLOYD STATE PARK FROM NOAA TDAL MONUMENT "NGS NO2 1973" (OPUS PID: AD5884)
9. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL 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 872-2957, NORTH DANIA SOUND FOR ENTIRE PROJECT
10. VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC 2024 MULTI-BEAM SYSTEM OPERATING AT 230 KHZ. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SV FLORIDA II	11 JUL 2014	ENT. CH., BULKHEADS
SV FLORIDA II	12 JUL 2014	TURNING BASINS & ENT. CH. EDGE
SV FLORIDA II	13 JUL 2014	SOUTHPORT CUTS 1-3
SV FLORIDA II	14 JUL 2014	GAP FILL-IN FOR VARIOUS CUTS

11. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
12. 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.
13. 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, 30 NOV 13.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: WRM
DWN by: WRM
Chkd by: GB
Proj. No. V912EP-XX-XX-XXXX
Date: JUL 2014

Reference files:
XXXXXXXX-X-XXXX.DGN
XXXXXXXX-X-XXXX.DGN
XXXXXXXX-X-XXXX.DGN
XXXXXXXX-X-XXXX.DGN
XXXXXXXX-X-XXXX.DGN
14-132-AURIDA.DGN
PORT EVERGLADES HARBOR-C-NGSMCCF.DGN
14-132-C-BS-BROR.DGN

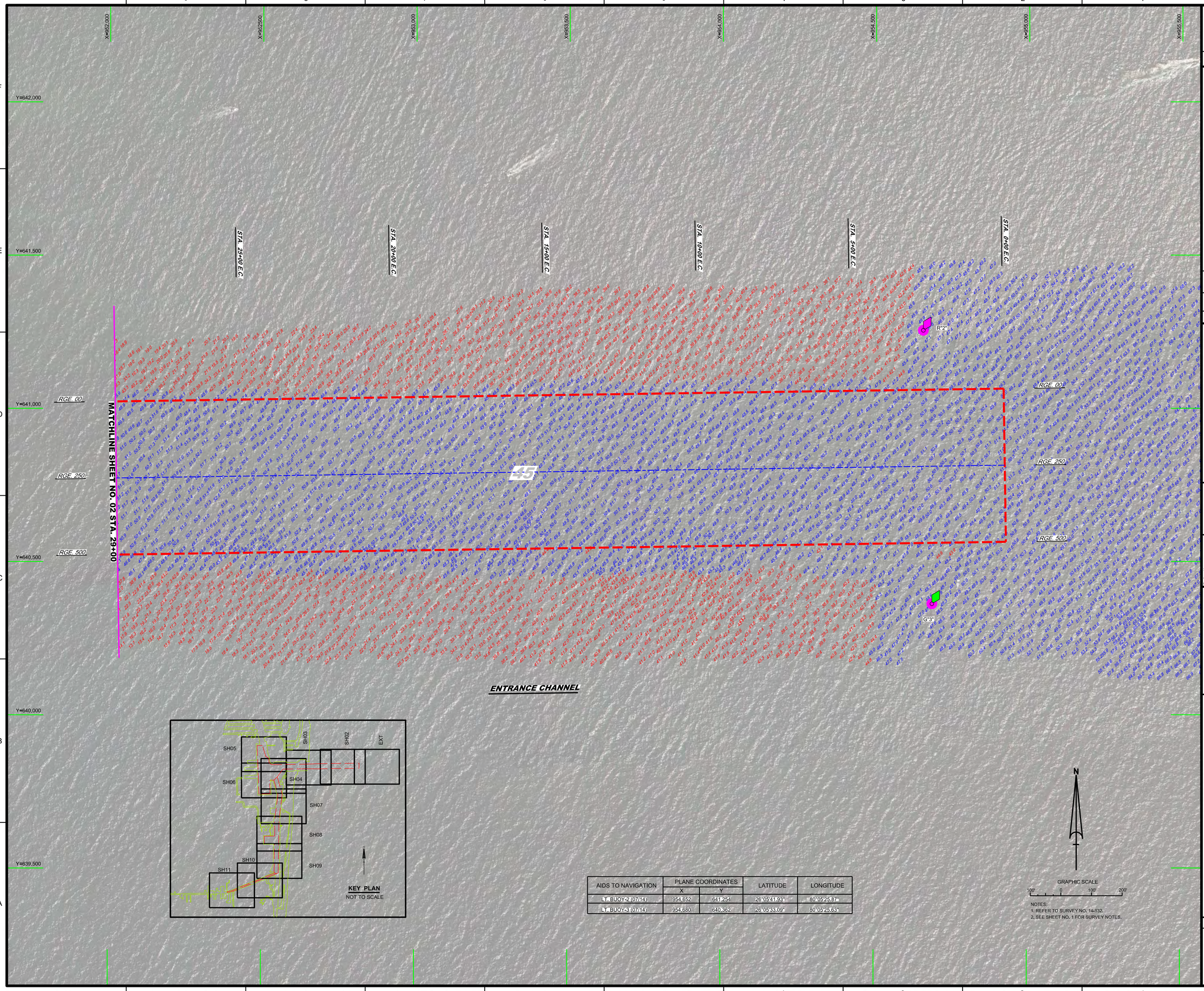
File name: 14-132-VH-01.DGN

PORT EVERGLADES HARBOR, FLORIDA
EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1/9

SHEET 01 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (07/14)	954,652	641,254	26°05'41.93"	80°05'25.87"
LT. BUOY-3 (07/14)	954,680	640,362	26°05'33.09"	80°05'25.63"

NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: VIRM
Drawn by: VIRM
Checked by: GR
Rev. No. V9912EP-XX-X-XXXX
Date: JUL 2014

X:\XXXX-XXXX-XXXX\XXXX-DGN\
XXXXXXXXXX-XXXXXXXXXX.DGN
14-132-V-CONMOLDGN
14-132-V-NAV.DGN
14-132-V-SHT-02.DGN
14-132-V-SOUNDING.DGN
PORT EVERGLADES HARBOR-C-NGMCCF.DGN
14-132-V-SHEET-02.DGN
Reference files:
14-132-V-TH-02.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT

STA. 0+00 THRU STA. 29+00 ENTRANCE CHANNEL

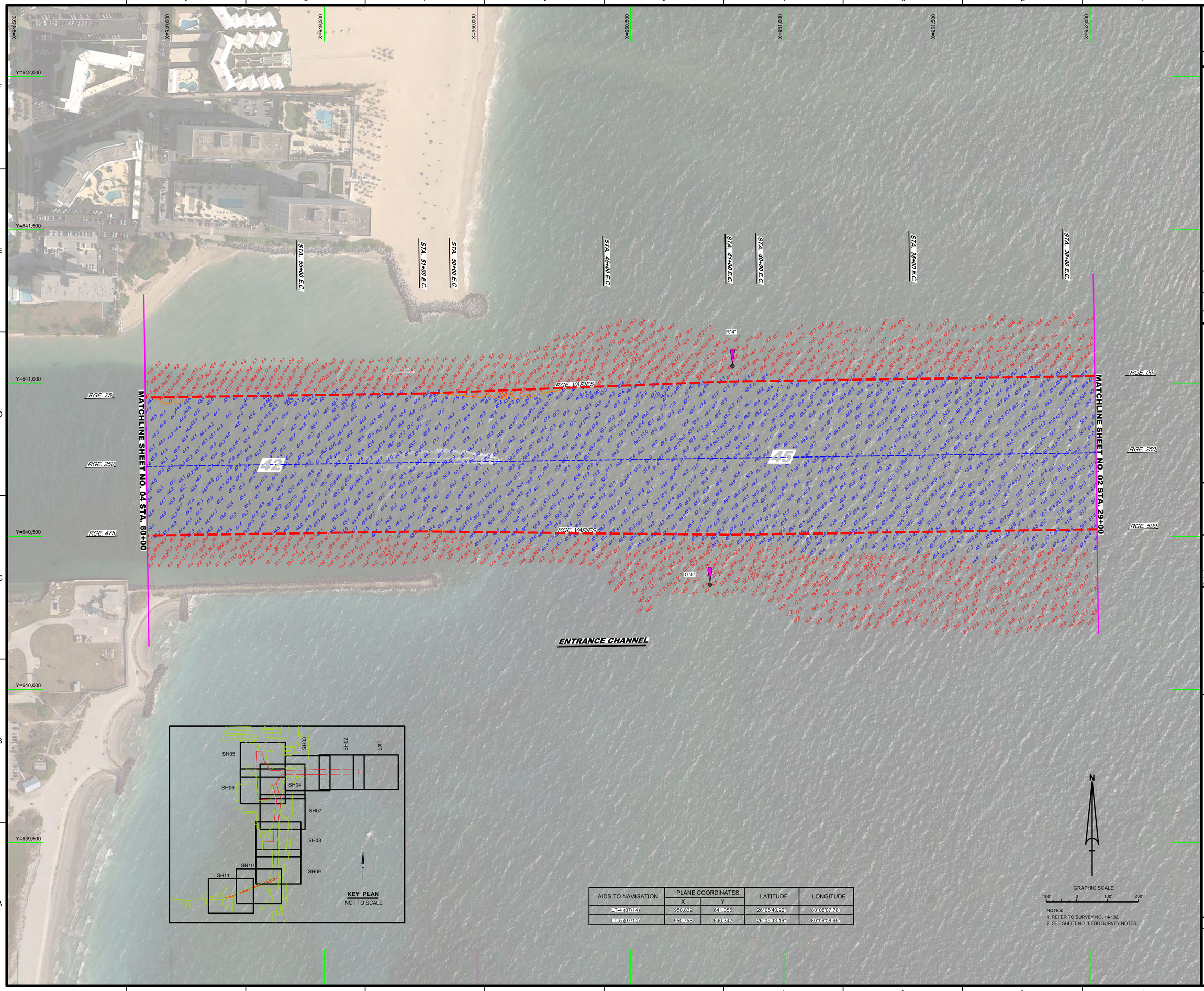
PLAN

Scale: AS SHOWN

Drawing no.

2/9

SHEET 02 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-4 (07/14)	950,832	641,055	26°05'40.22"	80°06'07.78"
LT-5 (07/14)	950,758	640,342	26°05'33.16"	80°06'08.65"

NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Chief, hyc: GR
Designed by: WRM
DWN by: WRM
Rev. No. V9912EP-XX-X-XXXX
Date: JUL 2014

CV-XXXX-XXX-XXXX-XXX.DGN
14-132-V-COVER.DGN
14-132-V-CONMAP.DGN
14-132-V-CONNB.DGN
14-132-V-NAV.DGN
14-132-V-SOUNDING.DGN
14-132-V-SOUN_EC.DGN
PORT EVERGLADES HARBOR-C-NGMCCF.DGN
14-132-V-PS-SHDR.DGN
Reference files:
14-132-V-HG3.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT
STA. 29+00 THRU STA. 60+00 ENTRANCE CHANNEL

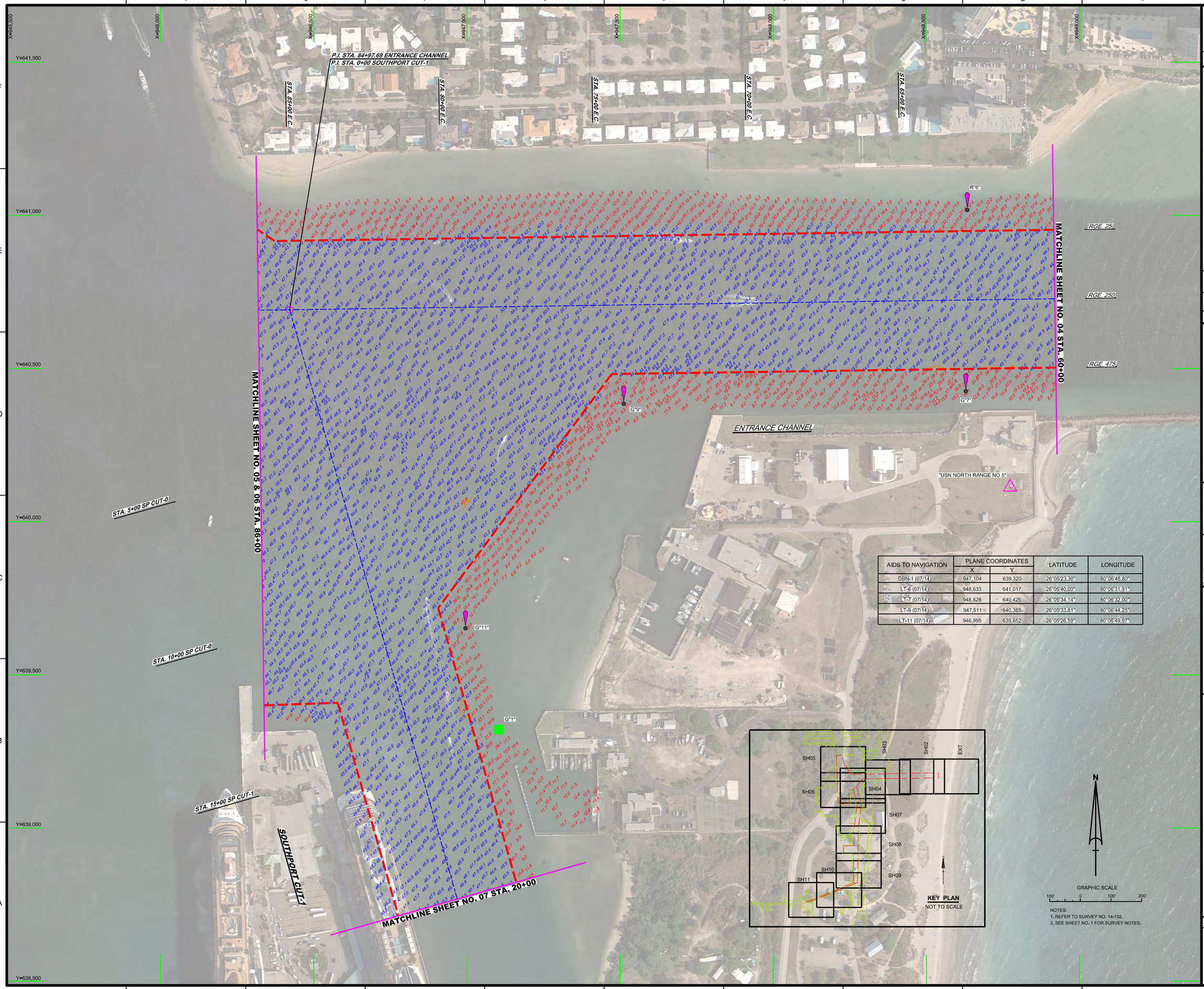
PLAN

Scale: AS SHOWN

Drawing no.

3/9

SHEET 03 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-1 (07/14)	947,104	639,320	26°05'23.30"	80°06'48.80"
LT-6 (07/14)	948,633	641,017	26°05'40.00"	80°06'31.91"
LT-7 (07/14)	948,628	640,426	26°05'34.14"	80°06'32.00"
LT-9 (07/14)	947,511	640,385	26°05'33.81"	80°06'44.25"
LT-11 (07/14)	946,995	639,652	26°05'26.59"	80°06'49.97"

NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Rev. Symbol | Description | Zone

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

Designed by: WRM
DWN by: WRM
Chk'd by: GR
Rev. No. V91ZEP-XX-X-XXX
Date: JUL 2014

Reference files:
FEH132-G4RKEYLD.DGN
14-132-VICCON2-LD.DGN
14-132-A-NAV.DGN
14-132-VICCON2-PC1.DGN
14-132-A-SOUN_EC.DGN
PORT EVERGLADES HARBOR-C-NGMCCF.DGN
14-132-C4-ESBRDR.DGN
File name: 14-132-VH-P4.DGN

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT
STA. 60+00 THRU STA. 84+97.69 ENTRANCE CHANNEL &
STA. 0+00 THRU STA. 20+00 SOUTHPORT CUT-1

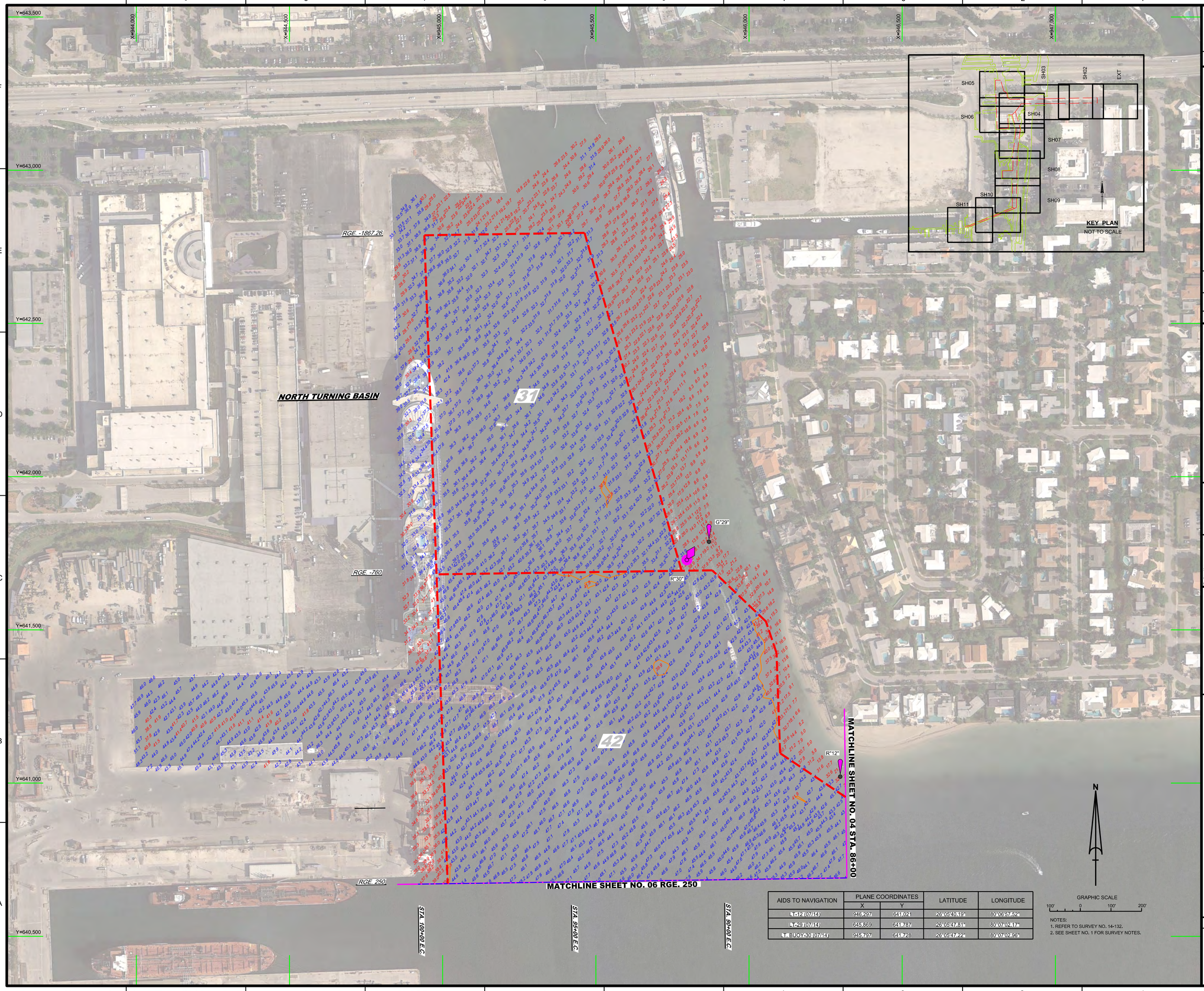
PLAN

Scale: AS SHOWN

Drawing no.

4/9

SHEET 04 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-12 (07/14)	946,297	641,021	26°05'40.19"	80°06'57.52"
LT-29 (07/14)	645,869	641,787	26°05'47.81"	80°07'02.17"
LT. BUOY-30 (07/14)	945,797	641,728	26°05'47.22"	80°07'02.95"

NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: WRM
DWN by: WRM
Ckd by: GR
Rev. No. V9125FF-XX-X-XXXX
Date: JUL 2014

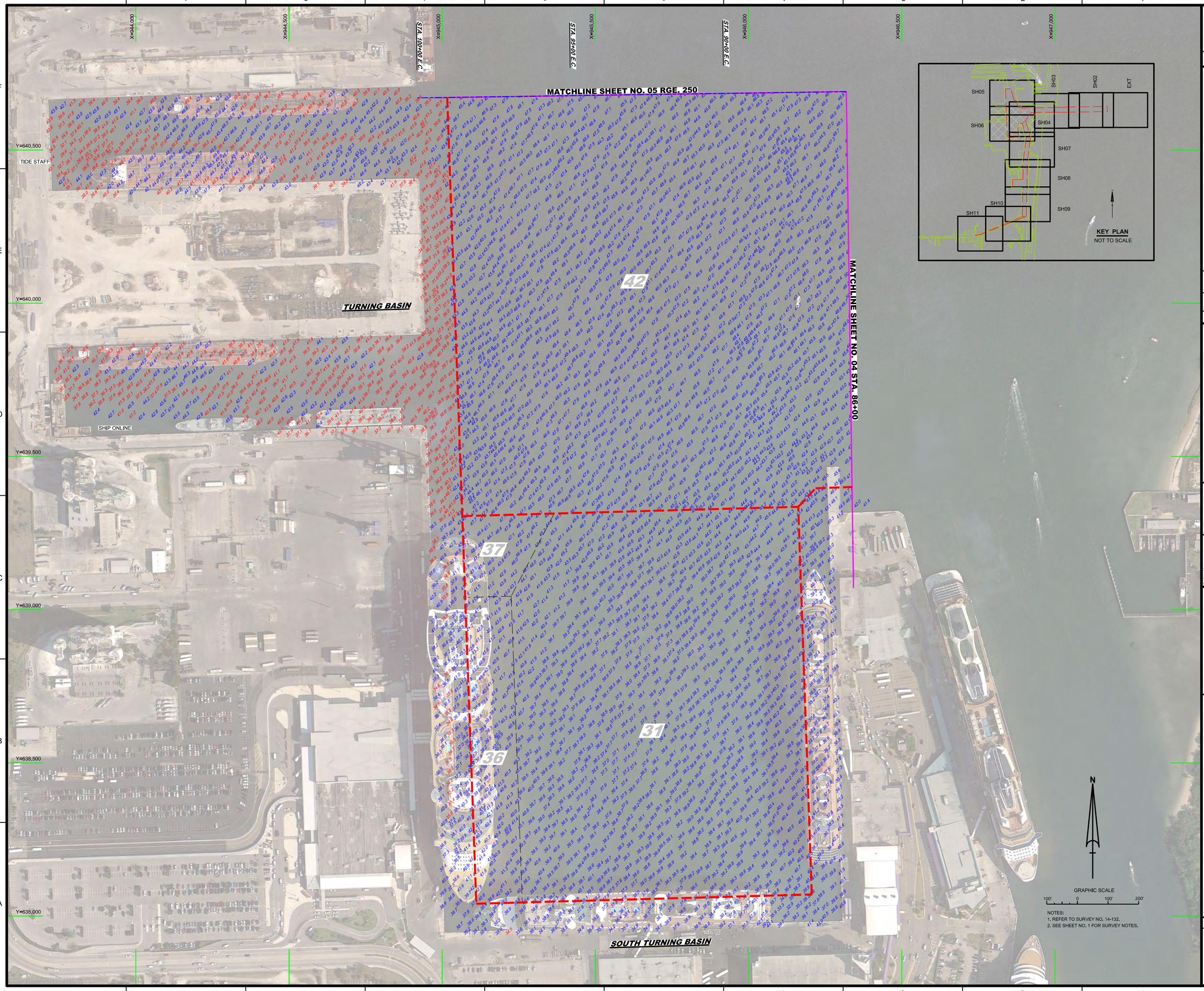
14-132A-D2N31.DGN
14-132A-D2N31.DGN
14-132A-ADDL.DGN
14-132A-CONTOUR.DGN
FEH132-GHOKEYD.DGN
14-132A-SOUN_NTB.DGN
14-132A-SOUN_NTB.DGN
14-132A-SOUN_EC.DGN
PORT EVERGLADES HARBOR-CONGMCCF.DGN
14-132A-SHB-BNDR.DGN
Reference files:
14-132VHOS.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA
EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT
STA. 86+00 THRU STA. 100+00 ENTRANCE CHANNEL/TURNING BASIN
PLAN

Scale: AS SHOWN

Drawing no.
5/9

SHEET 05 OF 11



NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: VIRM
DWN by: VIRM
Chk'd by: DJT
Rev. No. V9912EP-XX-X-XXXX
Date: JUL 2014

1-XXXX-X-XXXX-X.DGN
PERT-X-X-APPROVED.DGN
14-132-X-CONNECT.DGN
14-132-X-CONN2.DGN
14-132-X-SOUN_STB.DGN
14-132-X-SOUN_MID.DGN
14-132-X-SOUN_EC.DGN
PORT EVERGLADES HARBOR-C-NGMCCF.DGN
14-132-X-PS-SHDR.DGN
Reference files:
14-132-VHB-6.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT
STA. 86+00 THRU STA. 100+00 ENTRANCE CHANNEL / TURNING BASIN
AND SOUTHERN TURNING BASIN

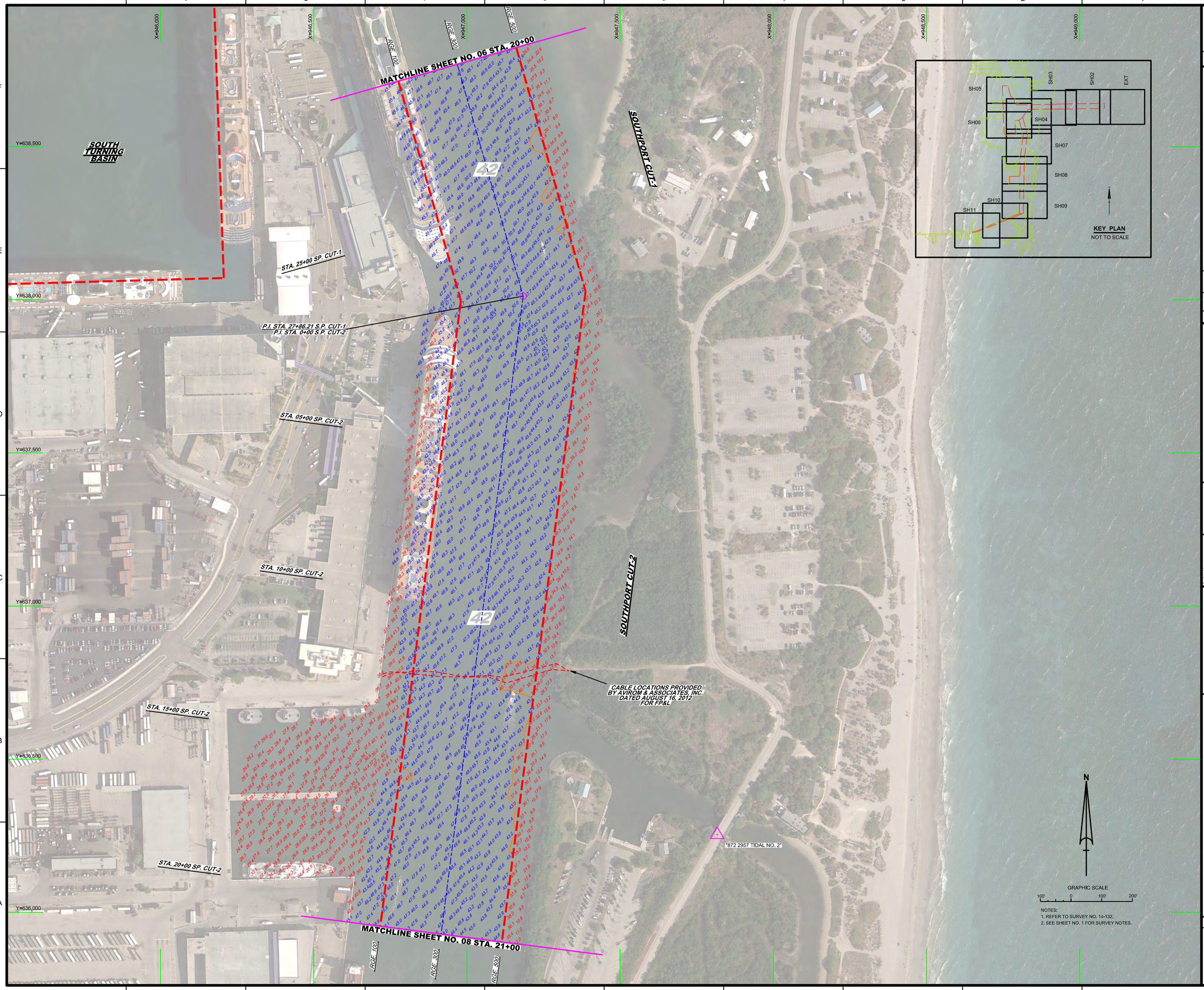
PLAN

Scale: AS SHOWN

Drawing no.

6/9

SHEET 06 OF 11



NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: WRM
DWN by: WRM
Ckd by: GR
Prj. No. V91ZEP-XX-X-XXXX
Date: JUL 2014

X:\X-XX-X-X-X-XXXX\DGN
14-132-AXIS_BLOCK.DGN
14-132-VICCONS.DGN
PEH13-G-40PEYD.DGN
14-132-SOUTH_SP.DGN
14-132-VICSOUN_SPC1.DGN
PORT EVERGLADES HARBOR-C-NGMCCF.DGN
14-132-CABS-BRDR.DGN
Reference files
14-132-VH-07.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT

STA. 20+00 SOUTHPORT CUT-1 THRU STA. 21+00 SOUTHPORT CUT-2

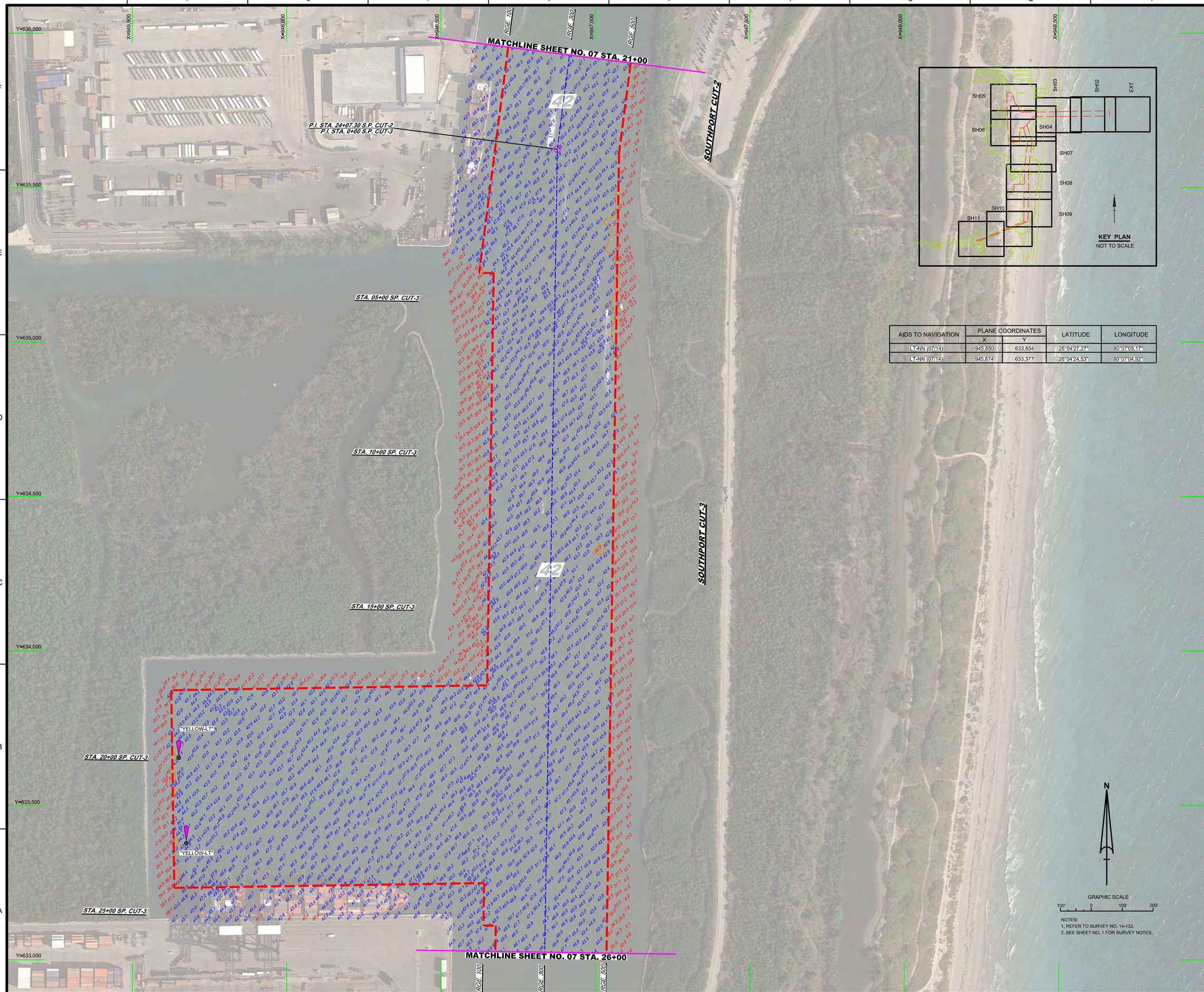
PLAN

Scale: AS SHOWN

Drawing no.

7/9

SHEET 07 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-NN (07/14)	945,650	633,654	26°04'27.27"	80°07'05.17"
LT-NN (07/14)	945,674	633,377	26°04'24.53"	80°07'04.92"

NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: VIRM
DWN by: VIRM
Chkd by: GR
Rev. No. V9123EP-XX-X-XXXX
Date: JUL 2014

14-132VI-CONID.DGN
14-132VI-NAV.DGN
PEH122-G-KPKEYD.DGN
14-132VI-SOUN_SPC1.DGN
14-132VI-SOUN_SPC2.DGN
PORT EVERGLADES HARBOR-C-NGMCCF.DGN
14-132VI-CES-BRDR.DGN
Reference files:
14-132VI-VHB.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT

STA. 21+00 SOUTHPORT CUT-2 THRU STA. 26+00 COUTHPORT CUT-3

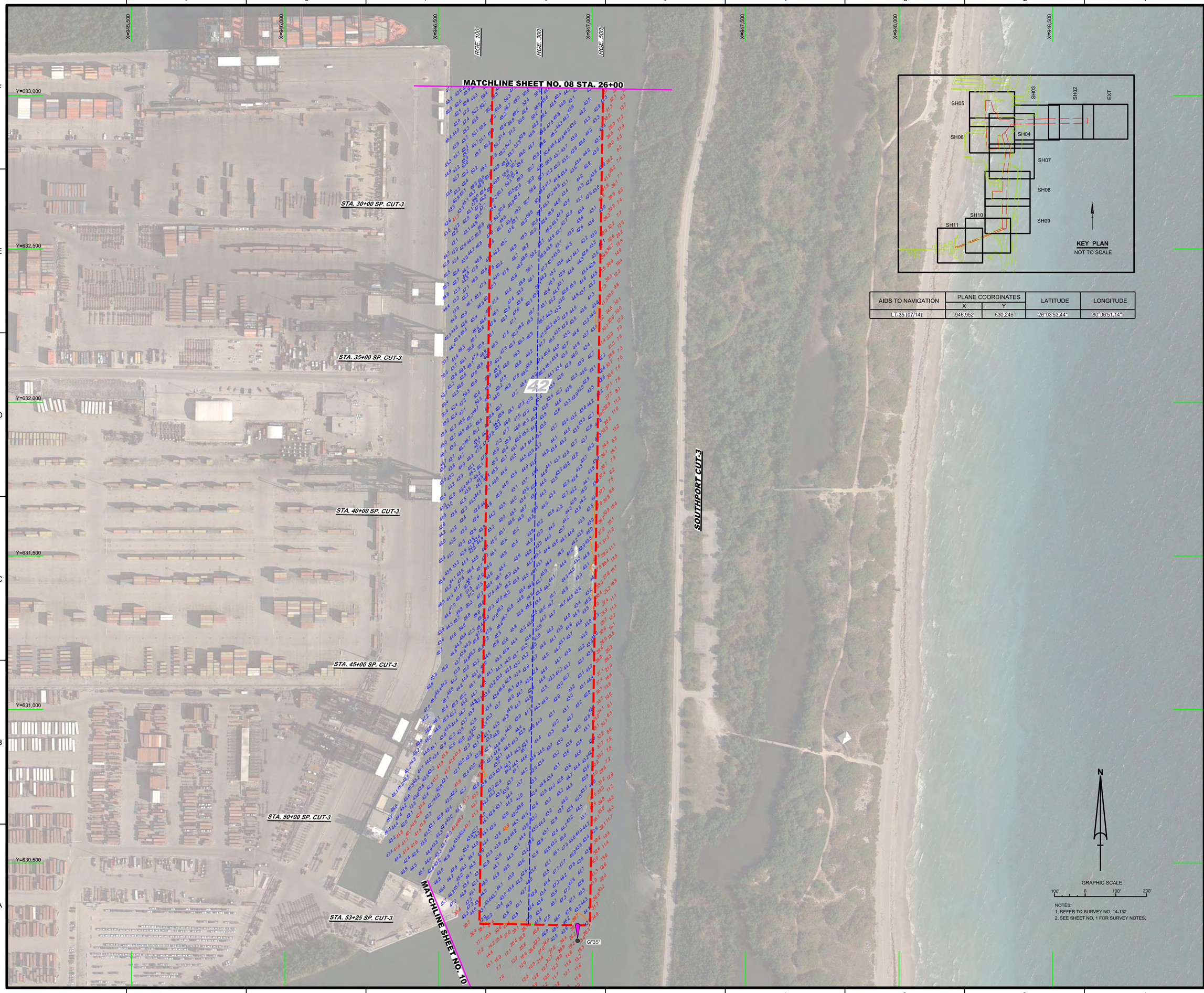
PLAN

Scale: AS SHOWN

Drawing no.

8/9

SHEET 08 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-35 (07/14)	946,952	630,246	26°03'53.44"	80°06'51.14"

NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: WRM
DWN by: WRM
Ckd by: GB
Proj. No.: V912EP-XX-XX-XXXX
Date: JUL 2014

X:\XXXXXXXX-XX-XX-XXXX\DGN\
XXXXXXXXXX-XX-XXXX-XX.DGN
14-132-XA-CONNZ.DGN
14-132-XA-NAV.DGN
14-132-XA-SP-CUT.DGN
14-132-XA-SQUN_SPC.DGN
PORT EVERGLADES HARBOR-C-NGSMCF.DGN
14-132-C-BS-BRGR.DGN
Reference files:
14-132-VH-09.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT

STA. 26+00 THRU STA. 53+65 SOUTHPORT CUT-3

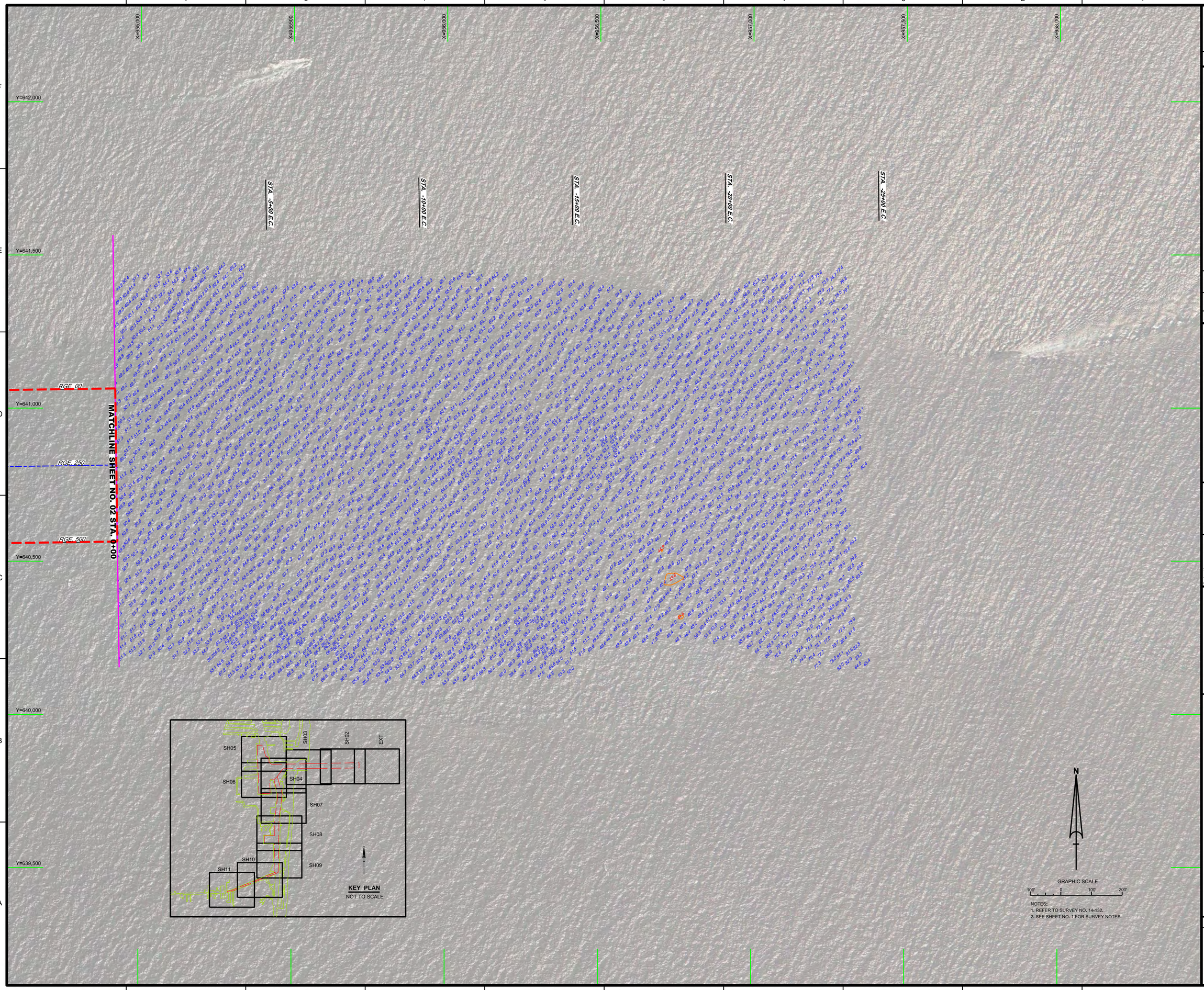
PLAN

Scale: AS SHOWN

Drawing no.

9/9

SHEET 09 OF 11



NOTES:
1. REFER TO SURVEY NO. 14-132.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: WRM
DWN by: WRM
Ckd by: CB
Proj. No. V912EP-XX-XX-XXXX
Date: JUL 2014

PER14132-4-PKEYD.DGN
14-132-A-SOUN_ELEV.DGN
14-132-A-SOUN_EC.DGN
PORT EVERGLADES HARBOR-C-NGSMCCF.DGN
14-132-C-BS-BRGR.DGN
Reference files
14-132-VRHEC-EXT.DGN
File name:

PORT EVERGLADES HARBOR, FLORIDA

EXAMINATION SURVEY FY14
31-FOOT THRU 45-FOOT PROJECT
STA. 0+00 THRU STA. -25+00 ENTRANCE CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 01