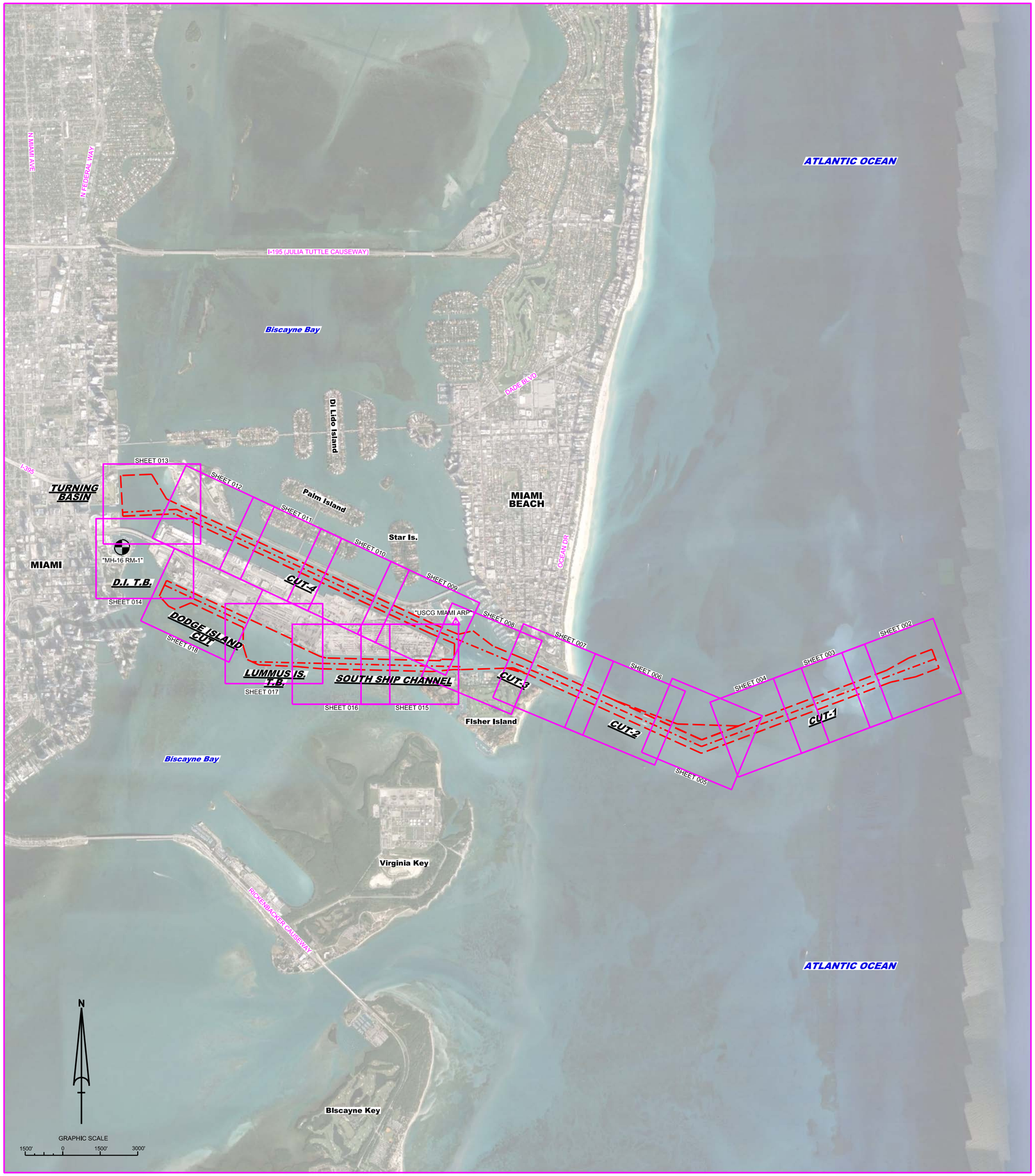
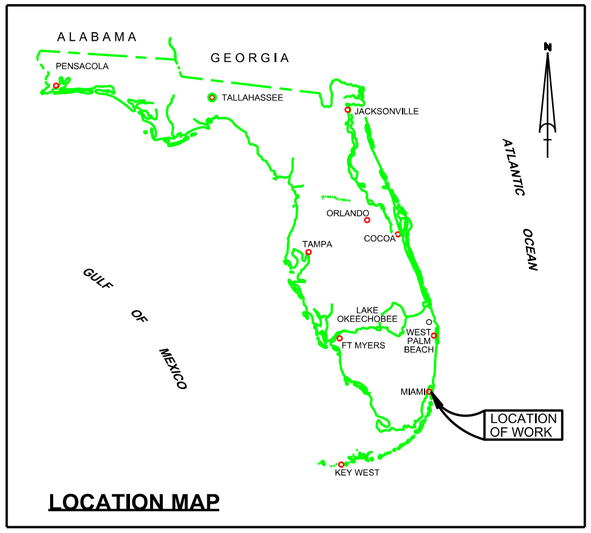




LOCATION MAP

MIAMI HARBOR
DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY
FY18

SURVEY NOTES

1. REFER TO SURVEY NOS. 18-125.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL 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 NAMED "MIAMI-HBR&RIV-03AUG2010.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, REALIZATION OF 2007 (NAD83(2007)).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "USCG MIAMI ARP" (OPUS PID: BBDD68)

   TIDE STAFF SET NEAR BAYSIDE MARINA FROM "MH-16 RM-1" (PID: AC2178)
8. 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 VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:

   NOAA TIDAL STATION 872-3165 MIAMI BISCAYNE BAY, FLORIDA FOR ALL CUTS.
9. VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2024 MULTI-BEAM SYSTEM AND A ROSS MODEL 835 SMART SOUNDER WITH A DUAL-FREQUENCY (28/200 KHZ) TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SV FLORIDA II	04 APR 2018	CUT-1
SV FLORIDA II	05 APR 2018	CUT-2, 3, TURNING BASIN, DODGE IS., LUMMUS ISLAND TURNING BASIN
SV FLORIDA II	07-08 APR 2018	SOUTH SHIP CHANNEL, SOUTH SHIP CHANNEL, CUT-4

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
12. 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 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 10.

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

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: VRM
DWN by: VRM
Ckd by: GB
Trv. No.
Date: APR 2018

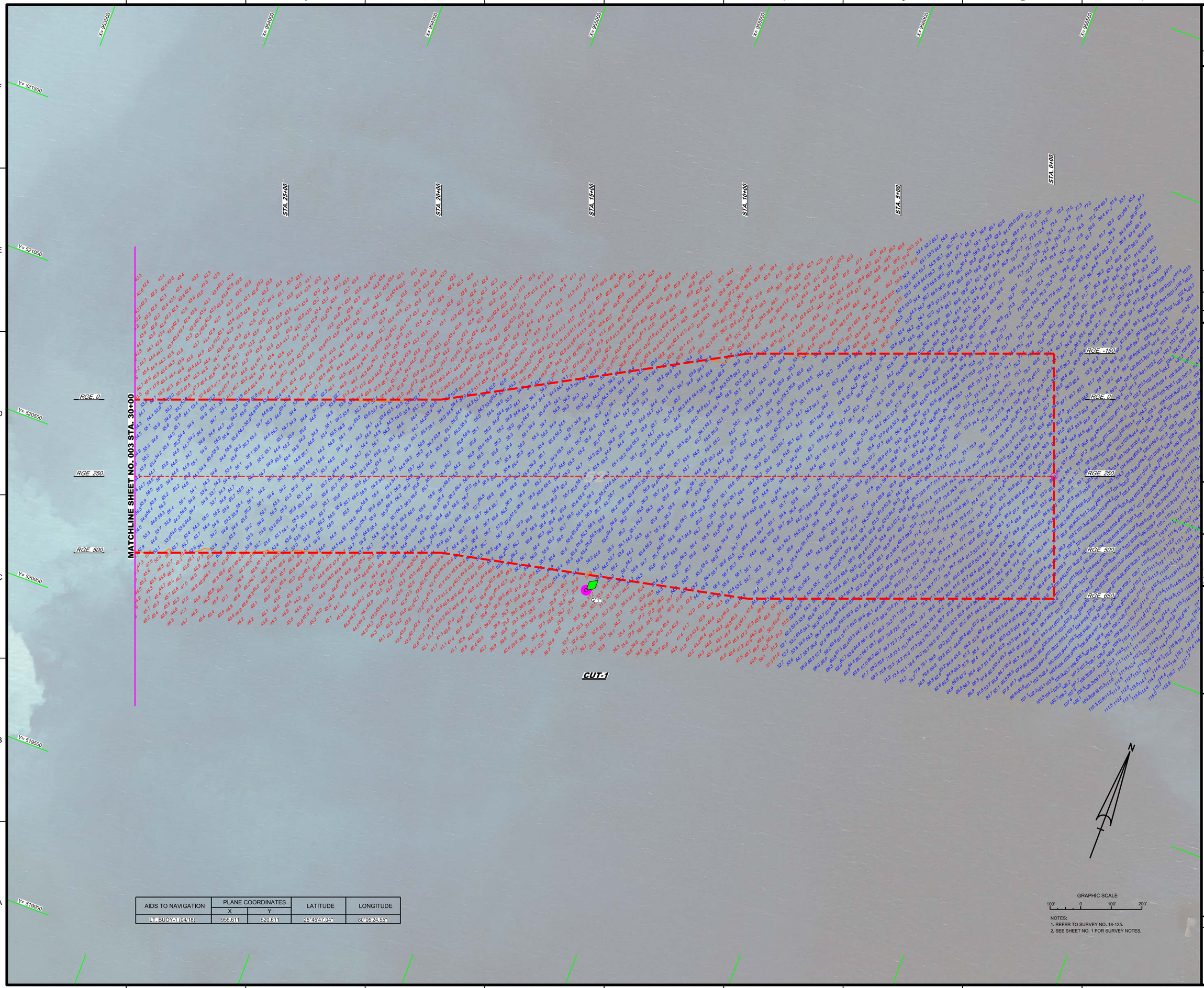
18-125A-IN03.DGN
MIAMI HARBOR-C-NGMCCF.DGN
18-125-C-BS-BRDR.DGN
Reference files
18-125-VH-001.DGN
Raster files

MIAMI HARBOR
DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-1 (04/18)	955,611	520,611	25°45'47.04"	80°05'24.55"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Designed by: VIRM
Drawn by: VIRM
Checked by: CMR
Rev. No.
Date: APR 2018

X:\XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
18-125-VC-CONS2.DGN
18-125-VC-SOUN_C1.DGN
18-125-VC-SOUN_C1.DGN
MIAMI HARBOR-C-NGMCCF.DGN
18-125-C-ES-BRDR.DGN
Reference files:
18-125-VH-002.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 0+00 THRU STA. 30+00 CUT-1

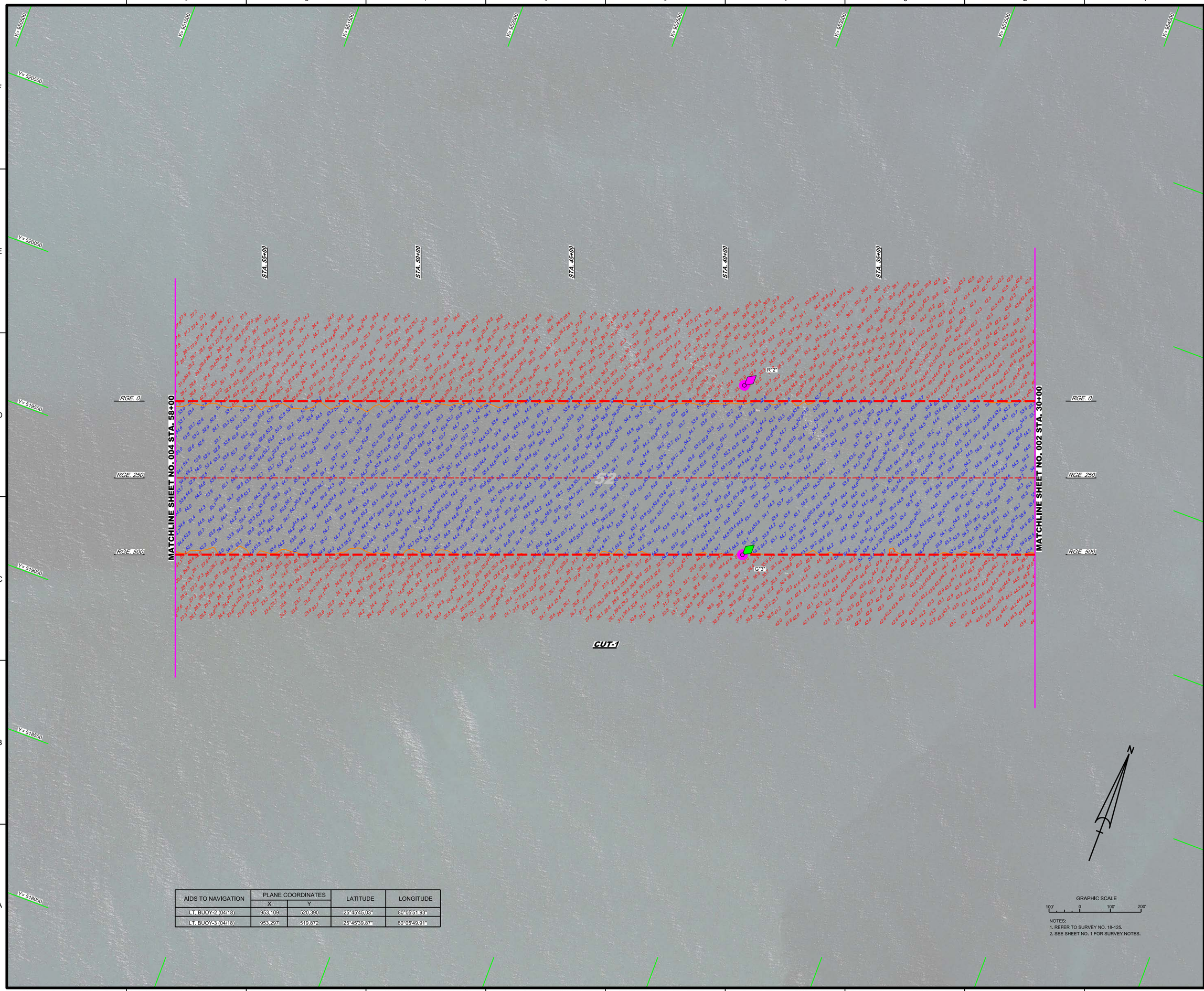
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (04/18)	953,109	520,390	25°45'45.03"	80°05'51.93"
LT. BUOY-3 (04/18)	953,297	519,872	25°45'39.87"	80°05'49.91"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Designed by: MRM
Drawn by: MRM
Checked by: GMR
Proj. No.
Date: APR 2018

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
18-125A-CONS21.DGN
18-125A-AVG.DGN
18-125A-SOUN_C1.DGN
MIAMI HARBOR-C-NGMCF.DGN
18-125A-C-BR-BRGR.DGN
Reference files

18-125-VR-03.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 30+00 THRU STA. 58+00 CUT-1

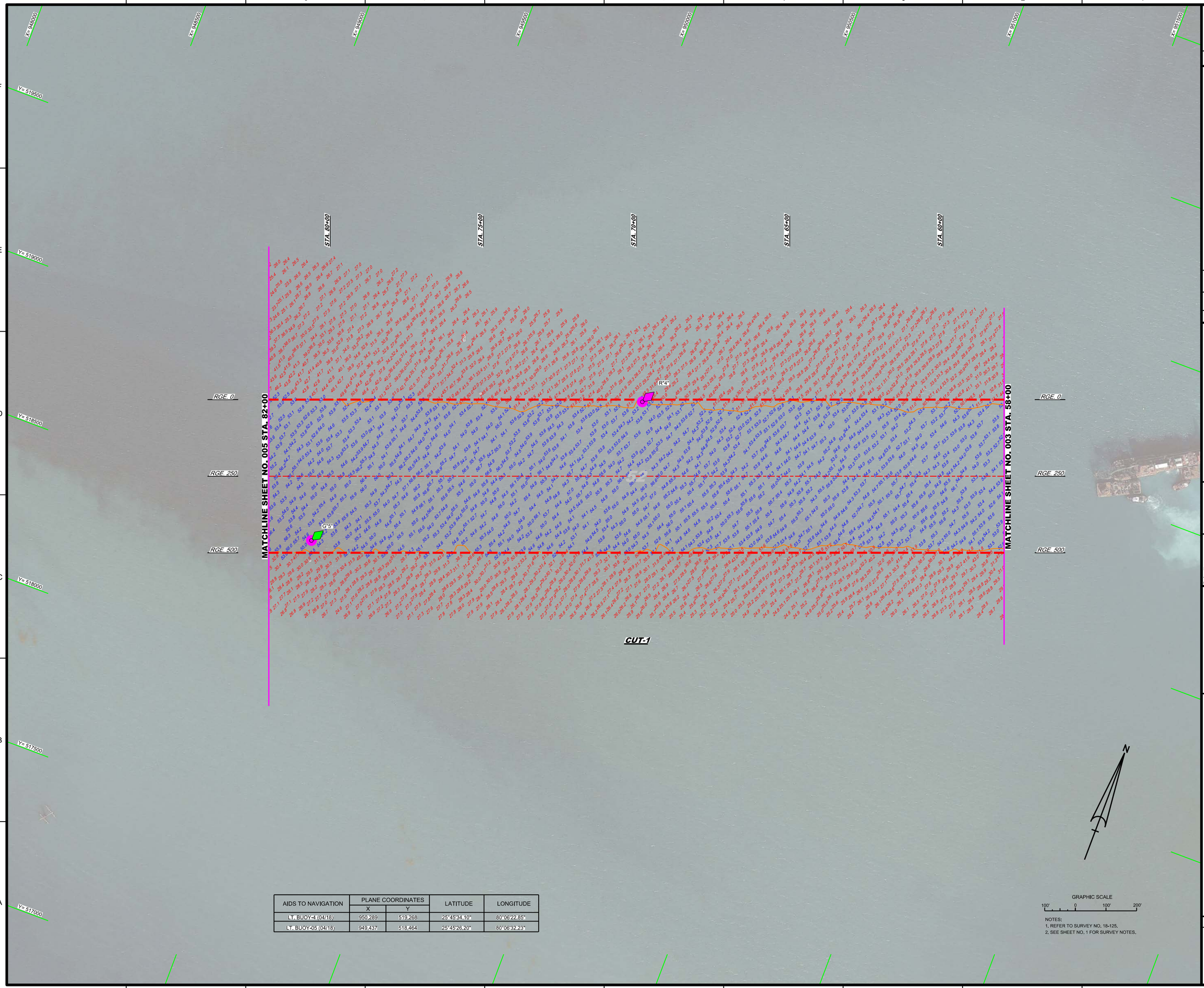
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-4 (04/18)	950,289	519,268	25°45'34.10"	80°06'22.85"
LT. BUOY-05 (04/18)	949,437	518,464	25°45'26.20"	80°06'32.23"

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Designed by: VIRM
DWN by: VIRM
Chd by: CMR
Date: APR 2018
Rev. No.

Reference files:
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
18-125-VC-CONSZL.DGN
18-125-VC-AVG.DGN
18-125-VC-SOUN_C1.DGN
MIAMI HARBOR-C-NGMCCF.DGN
18-125-C-ESB-BRDR.DGN
18-125-VH-004.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 58+00 THRU STA. 82+00 CUT-1

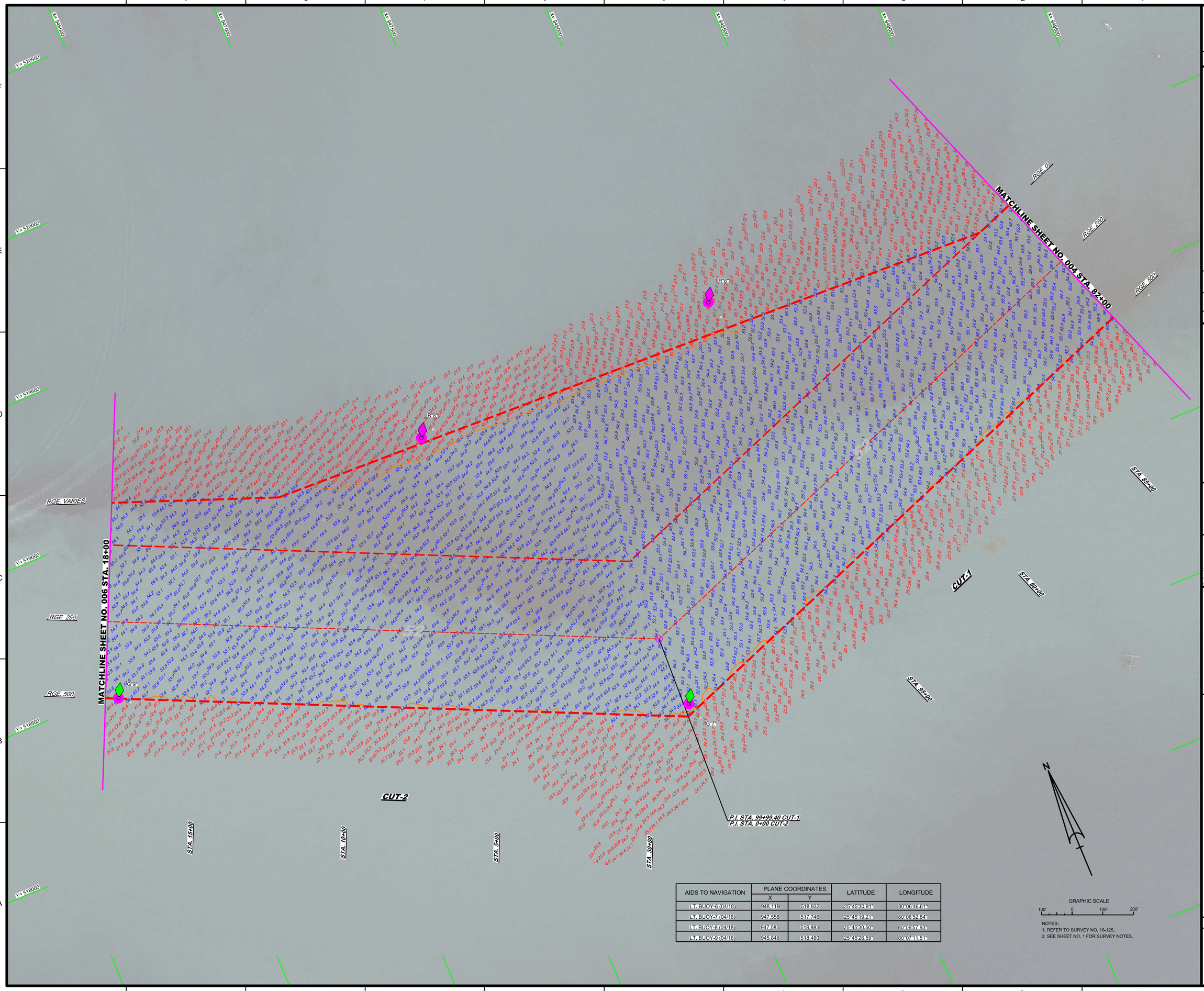
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-6 (04/18)	948,119	518,932	25°45'30.91"	80°06'46.61"
LT. BUOY-7 (04/18)	947,558	517,746	25°45'19.21"	80°06'52.84"
LT. BUOY-8 (04/18)	947,085	518,883	25°45'30.50"	80°06'57.93"
LT. BUOY-9 (04/18)	945,846	518,480	25°45'26.59"	80°07'11.51"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Designed by: MRM
DWN by: MRM
Ckd by: GMR
Proj. No.
Date: APR 2018

18-125-V-CONS2.DGN
18-125-V-MAV.DGN
18-125-V-SOUN_C1.DGN
18-125-V-SOUN_C2.DGN
MIAMI HARBOR-C-NGMCCF.DGN
18-125-C-BR-BRDR.DGN
Reference files
18-125-VR-H06.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 82+00 CUT-1 THRU STA. 18+00 CUT-2

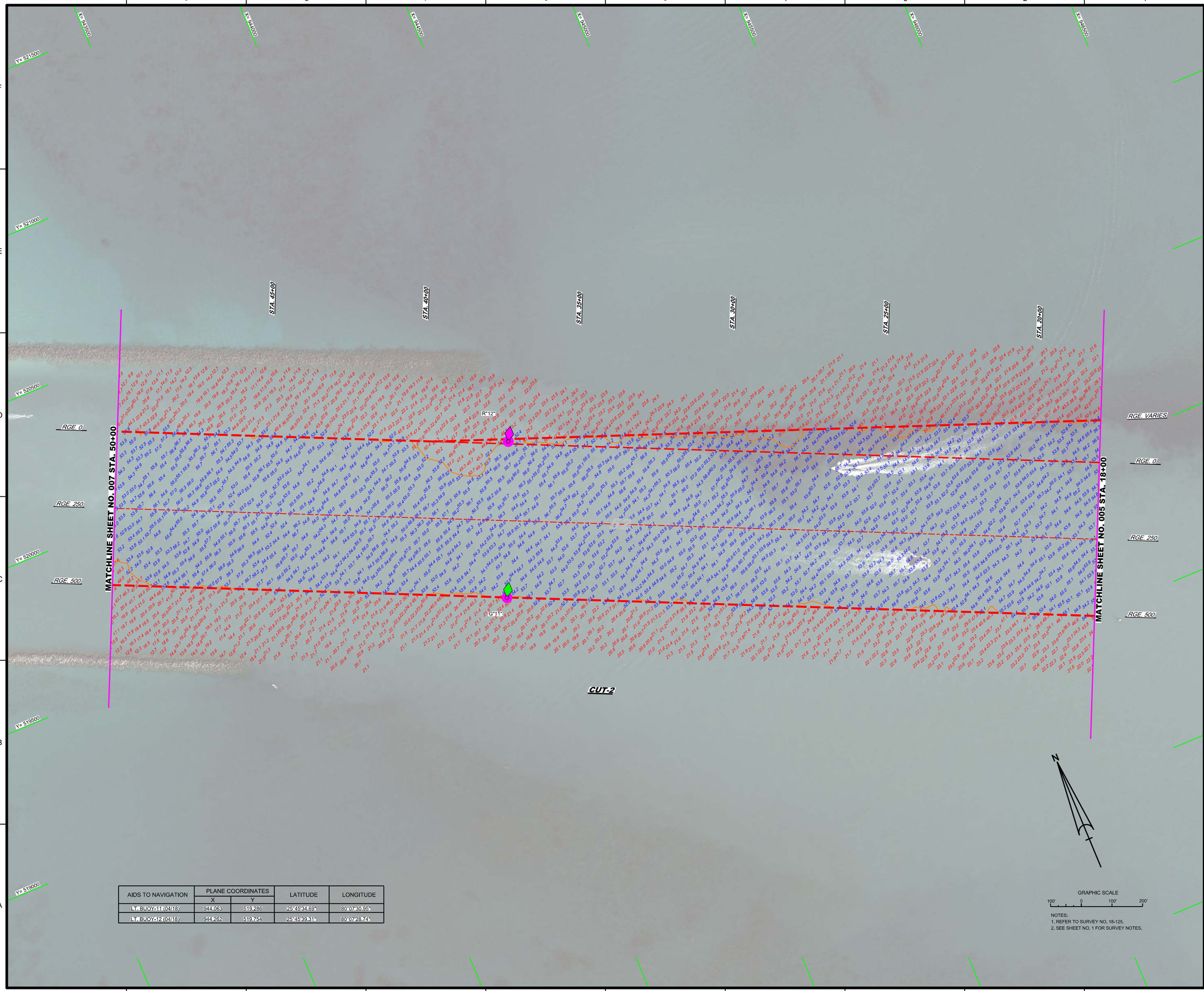
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-11 (04/18)	944,063	519,286	25°45'34.69"	80°07'30.95"
LT. BUOY-12 (04/18)	944,262	519,754	25°45'39.31"	80°07'28.74"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Designed by: VIRM
DWN by: VIRM
CHK by: CMR
Rev. No.
Date: APR 2018

18-125-ACONSZ.DGN
18-125-ASHOAL.DGN
18-125-ASOUN_CLD.DGN
MIAMI HARBOR-C-ADGMCCF.DGN
18-125-C-ESHDR.DGN
Reference files:
18-125-VHO06.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 18+00 THRU STA. 50+00 CUT-2

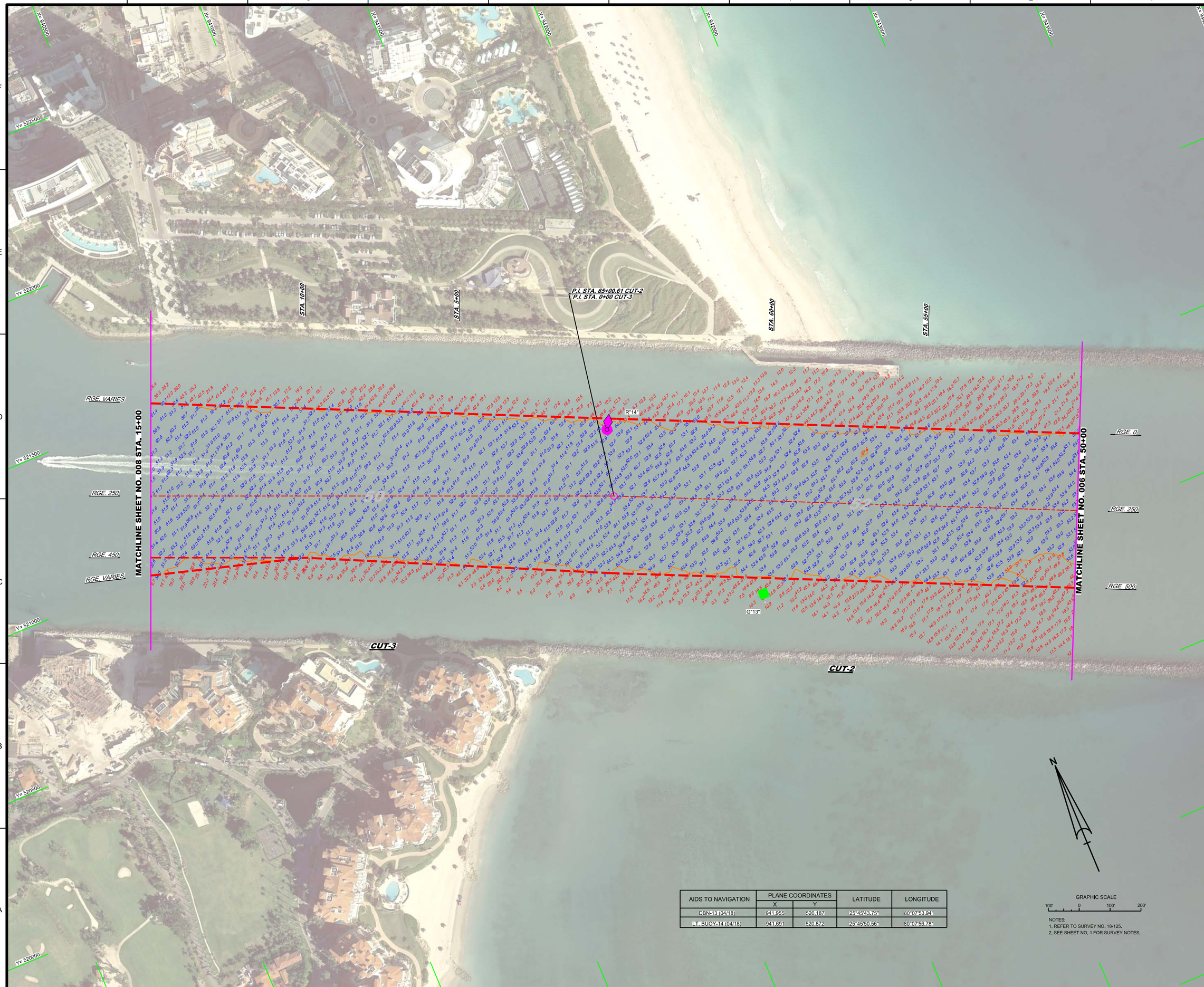
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-13 (04/18)	941,955	520,187	25°45'43.75"	80°07'53.94"
LT. BUOY-14 (04/18)	941,691	520,872	25°45'50.56"	80°07'56.78"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Designed by: VIRM
Drawn by: VIRM
Checked by: CMR
Date: APR 2018
Rev. No.

18-125-HYD-CONSD.DGN
18-125-HYD-CONSD.DGN
18-125-HYD-NAV.DGN
18-125-HYD-SOUN_SSC.DGN
18-125-HYD-SOUN_SSC.DGN
18-125-HYD-SOUN_C.DGN
MIAMI HARBOR-C-ANGMOCF.DGN
18-125-HYD-SHORLD.DGN
Reference files:
18-125-HYD-007.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 50+00 CUT-2 THRU STA. 15+00 CUT-3

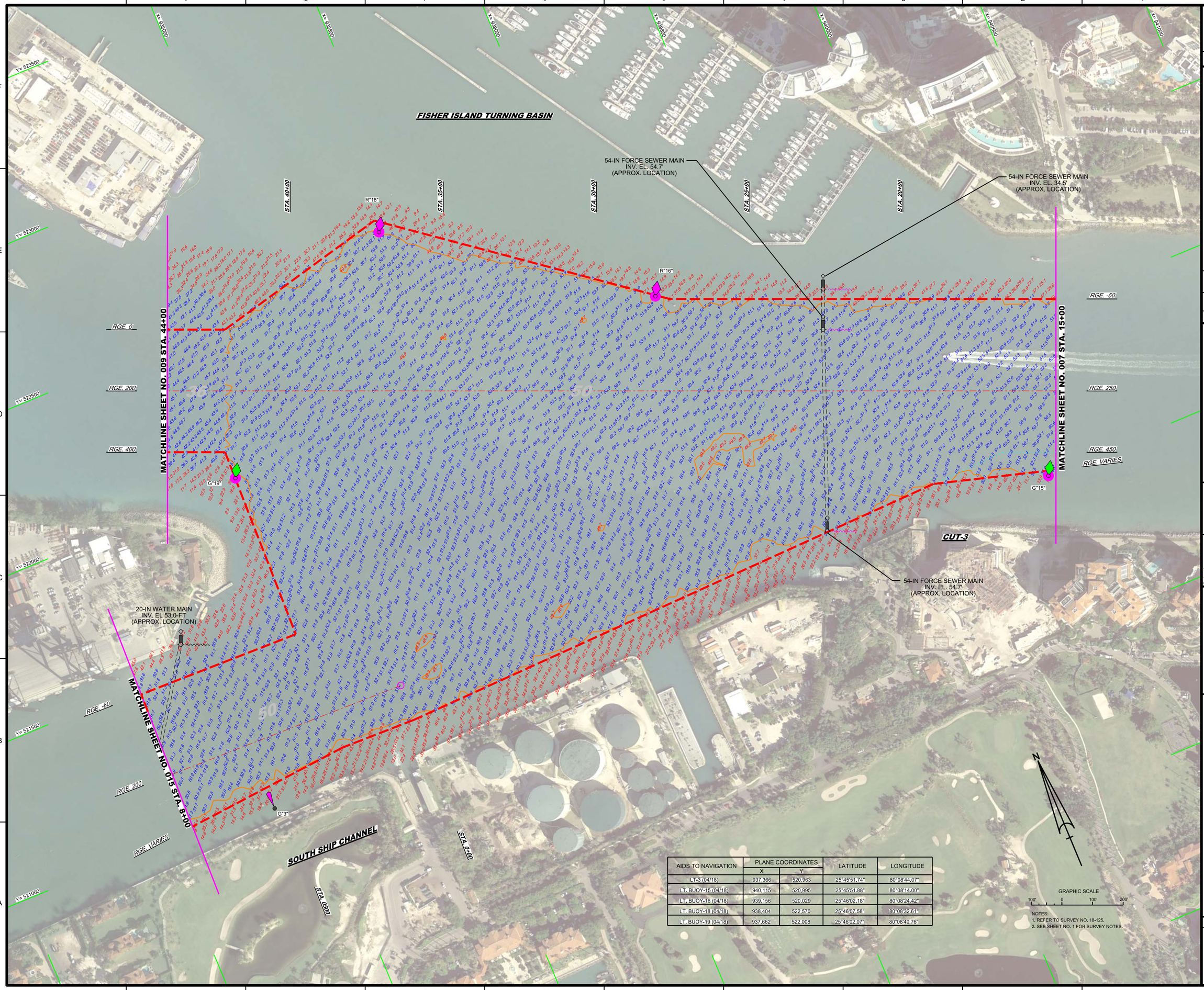
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-3 (04/18)	937,366	520,963	25°45'51.74"	80°08'44.07"
LT. BUOY-15 (04/18)	940,115	520,995	25°45'51.88"	80°08'14.00"
LT. BUOY-16 (04/18)	939,156	520,029	25°46'02.18"	80°08'24.42"
LT. BUOY-18 (04/18)	938,404	522,570	25°46'07.58"	80°08'32.61"
LT. BUOY-19 (04/18)	937,662	522,008	25°46'02.07"	80°08'40.76"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 18-125.
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

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

Cad by: GR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: APR 2018

18-125-VCONS0.DGN
18-125-VANAV.DGN
18-125-VCUT-3.DGN
18-125-VSOUN_SSC.DGN
MIAMI HARBOR-CANGMCCF.DGN
18-125-CABS-BRDR.DGN
Reference files:
18-125-VH-008.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT
STA. 15+00 THRU STA. 44+00 CUT-3 AND
STA. 0+00 THRU STA. 8+00 SOUTH SHIP CHANNEL
PLAN

Scale: AS SHOWN

Drawing no.
8

SHEET 08 OF 18

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: VIRM
DWN by: VIRM
Chd by: CMR
Rev. No.
Date: APR 2018

18-125-A-CONSB.DGN
18-125-A-SHEET-PLAN.DGN
18-125-A-SOUN_CALDGN
MIAMI HARBOR-C-NGWCCF.DGN
18-125-C-SB-BRDR.DGN
Reference files:
18-125-VH-009.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
34, 36, 50 AND 52-FOOT PROJECT

STA. 44+00 CUT-3 THRU STA. 23+00 CUT-4

PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 18