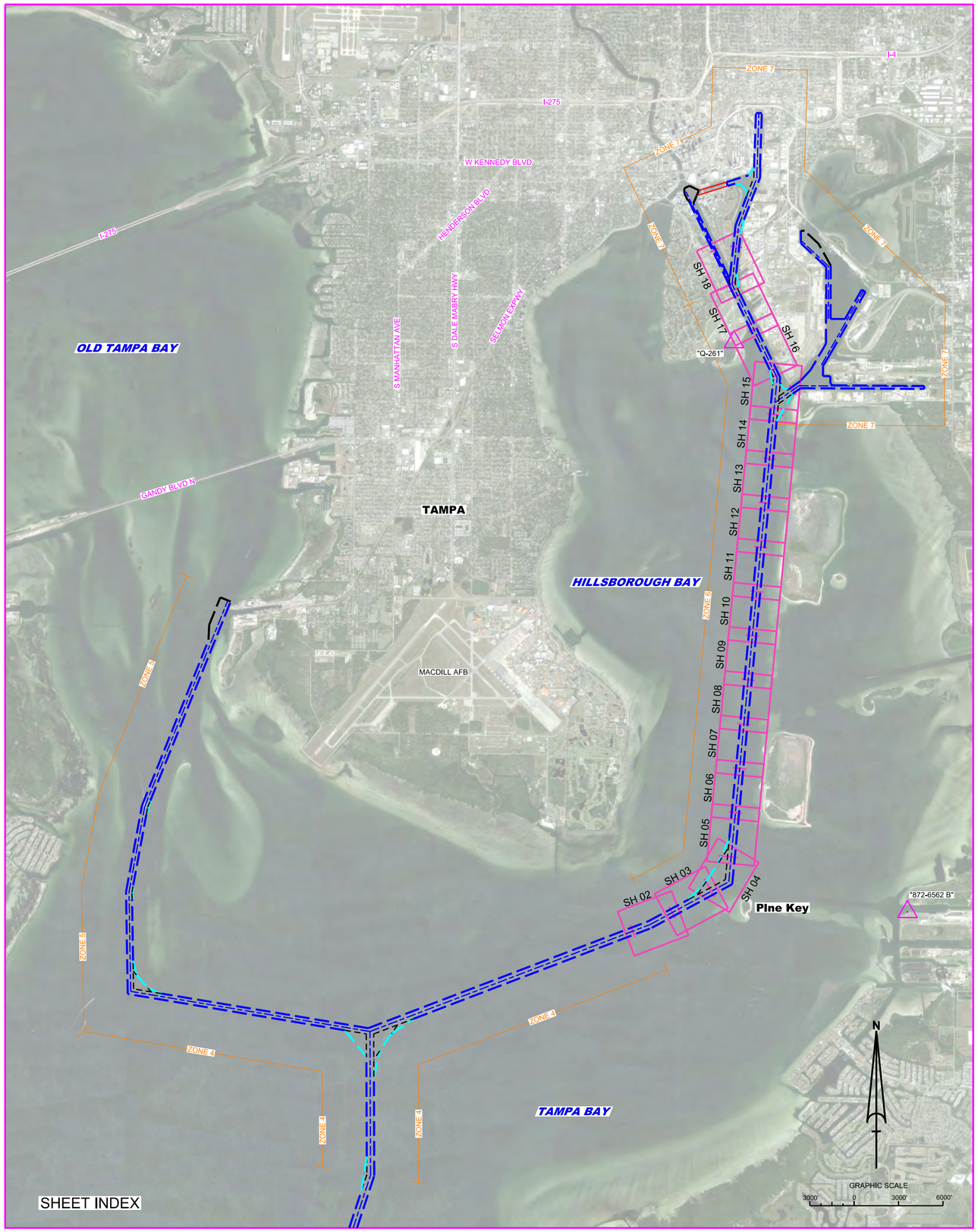
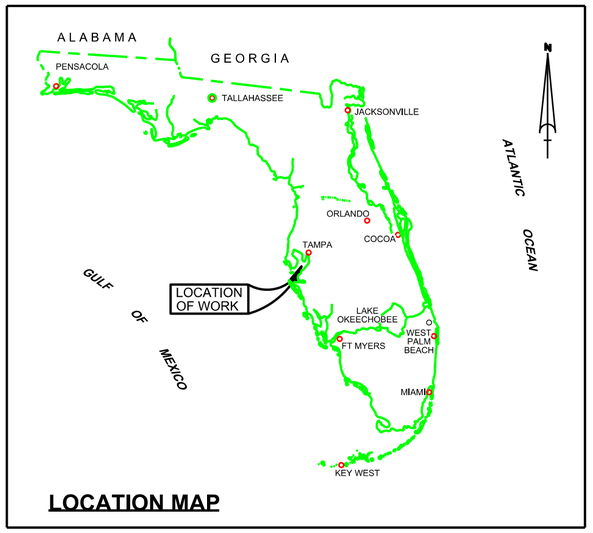




TAMPA HARBOR
CUTS A, C, AND D (HB)
HILLSBOROUGH COUNTY, FLORIDA
EXAMINATION SURVEY FY14
34, 41 AND 43-FOOT PROJECT

SURVEY ZONE	CUTS
4	CUT-F, CUT-G, GADSDEN POINT CUT
5	CUT-J, CUT-J2, CUT-K
6	CUT-A (HB), CUT-C (HB), CUT-D (HB)
7	LOWER & UPPER SPARKMAN, YBOR CH, SEDDON CH., PORT SUTTON CH., PORT SUTTON T.B., PORT SUTTON TERMINAL CH., EAST BAY CH., EAST BAY EXTENSIONS 1 & 2

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. 14-098.
2. 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 BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:

   NOAA TIDAL STATION 872-6562, HILLSBOROUGH BAY EAST FOR CUT-A AND CUT-C (HB).

   NOAA TIDAL STATION 872-6657, DAVIS ISLAND, HILLSBOROUGH BAY FOR CUTS C AND D (HB).
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 "SPC-FL-WEST-2010-12-07.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 WEST 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 LOCATIONS:

   REFERENCE BASE LOCATED AT "872-6562 B" (NGS PID: AG7604)
   TIDE STAFF LOCATED FROM TIDAL BENCHMARK "872-6562 B" (NGS PID: AG7604)

   REFERENCE BASE LOCATED AT "Q-261" (NGS PID: AG6024)
   TIDE STAFF LOCATED FROM TIDAL BENCHMARK "Q-261" (NGS PID: AG6024)
9. VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835C SMARTSOUNDER WITH A DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. HIGH FREQUENCY SOUNDINGS ARE SHOWN FOR CUT-A (HB) AND FOR CUT-C (HB) STA. 0+00 - 315+00. LOW FREQUENCY SOUNDINGS ARE SHOWN FOR CUT-C (HB) STA. 315+00 - 341+77.71 AND FOR CUT-D (HB).

VESSEL	DATE OF SURVEY	CUT
SB JACKSONVILLE	15 APR 2014	CUT-A (HB), STA. 46+00 - 60+45
SB JACKSONVILLE	17 APR 2014	CUT-A (HB), STA. -2+00 - 45+00
WB-34	29 APR 2014	CUT-D (HB), STA. 2+62 - 72+88
		LOWER SPARKMAN, STA. 3+00 - 4+00
		CUT-C (HB), STA. 325+00 - 341+78
WB-34	30 APR 2014	CUT-C (HB), STA. 197+00 - 324+00
WB-34	01 MAY 2014	CUT-C (HB), STA. 153+00 - 196+00
WB-34	05 MAY 2014	CUT-C (HB), STA. 101+00 - 152+00
WB-34	06 MAY 2014	CUT-C (HB), STA. 15+00 - 100+00
WB-34	07 MAY 2014	CUT-C (HB), STA. 0+00 - 14+00

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
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.

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: VRM
Drawn by: VRM
Cad by: GS
Inv. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
14-098-XXXX_XXXX.DGN
14-098-A-INDX_ZONES.DGN
TAMPA HARBOR-C-SPWCCF.DGN
14-098-C-BS-BRDR.DGN
Reference files
14-098-VR-01_ZA.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

INDEX, LOCATION AND VICINITY

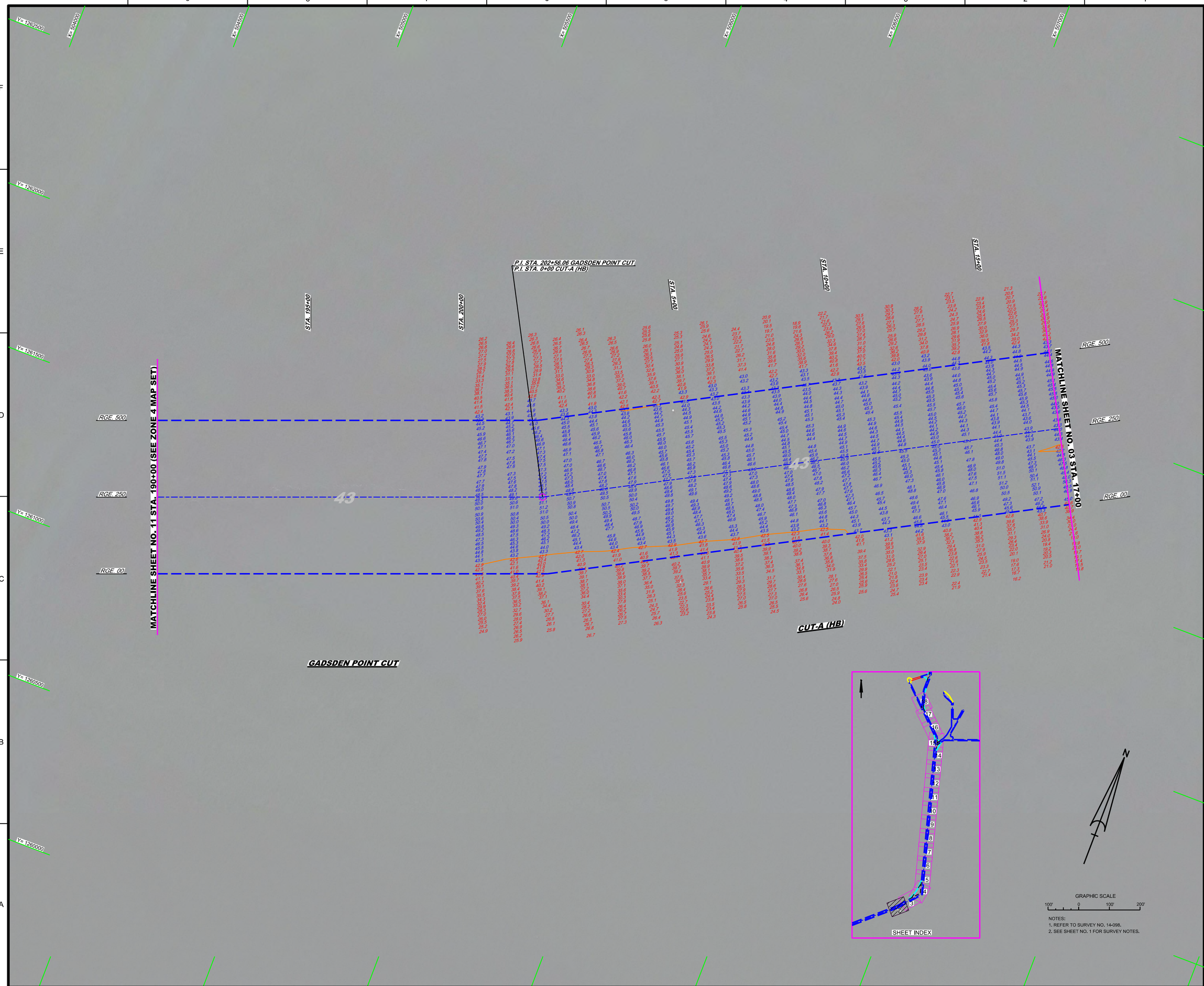
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 18



NOTES:
1. REFER TO SURVEY NO. 14-098.
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: WRM
DWN by: WRM
Ckd by: GB
Proj. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
14-098-A-SOUN_CTA_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-BS-BRDR.DGN
Reference files:
14-089-VHz02_26.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 190+00 GADSDEN POINT CUT THRU STA. 17+00 CUT-A (HB)

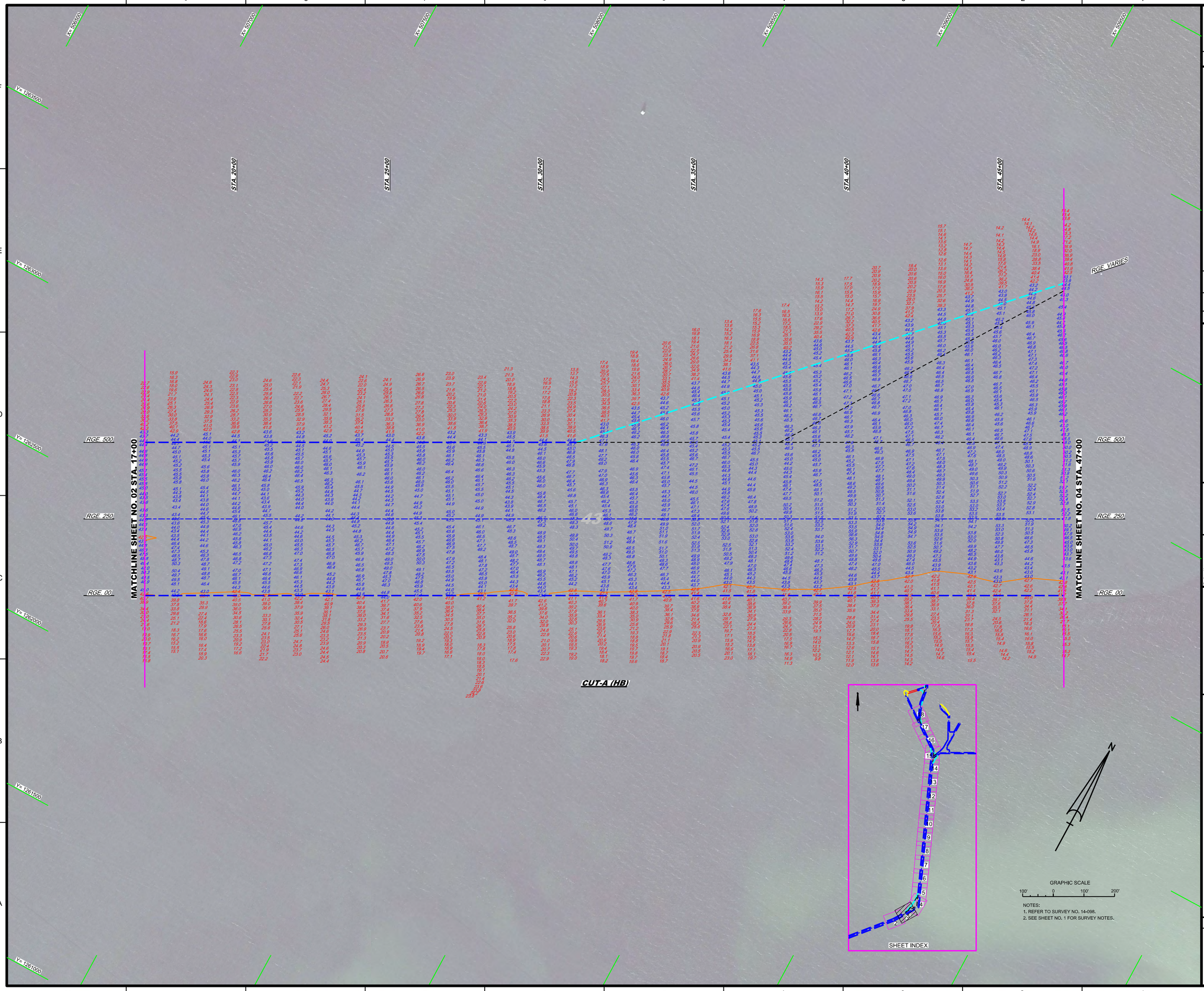
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 18



NOTES:
1. REFER TO SURVEY NO. 14-098.
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

Chkd by: GR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
14-098-A-SOUN_CTA_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-BS-BRGR.DGN
Reference files
14-089-VHH3_26.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

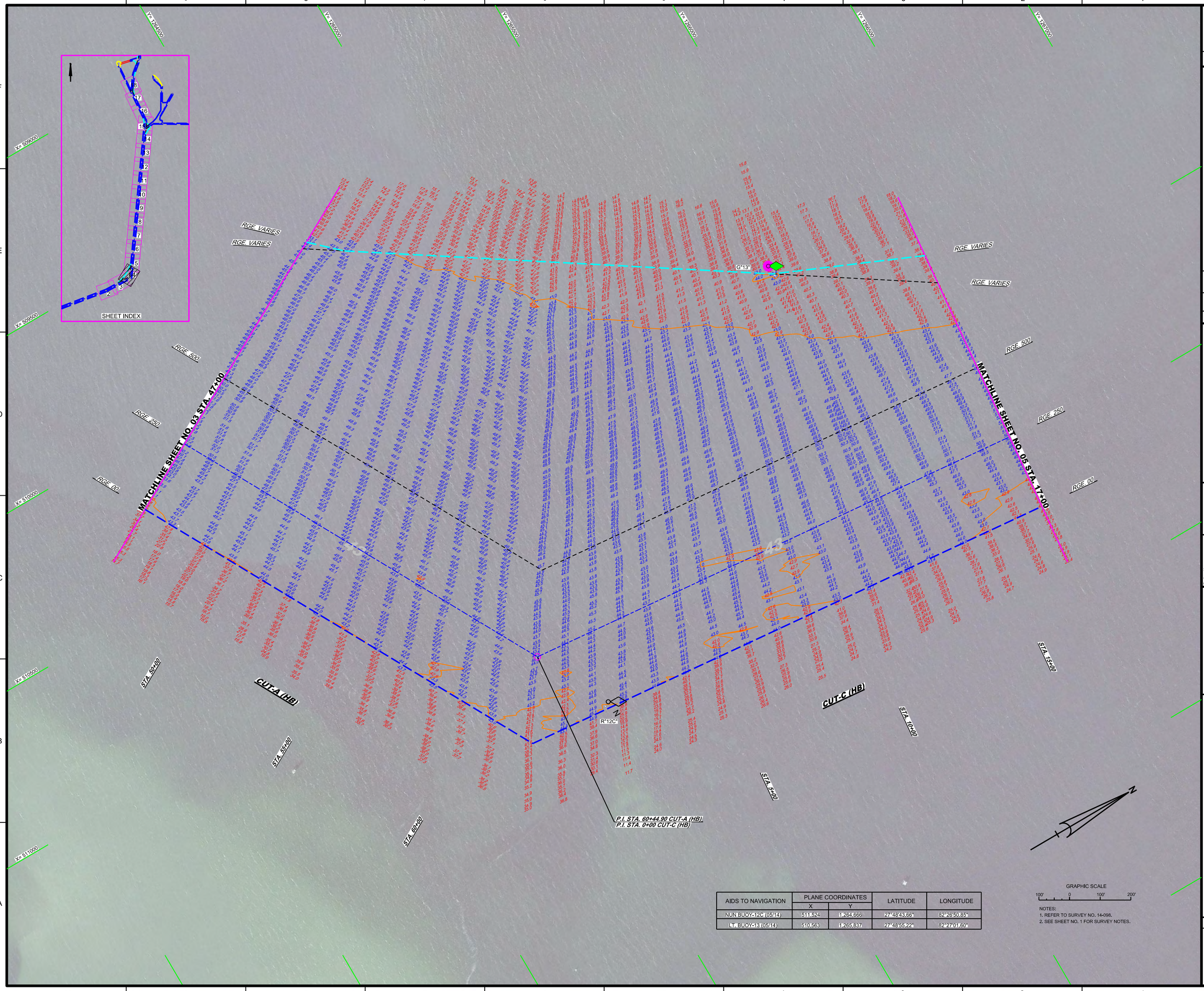
STA. 17+00 THRU STA. 47+00 CUT-A (HB)

PLAN

Scale: AS SHOWN

Drawing no.
3

SHEET 03 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
NUN BUOY-12C (05/14)	511,524	1,264,666	27°48'43.66"	82°26'50.85"
LT. BUOY-13 (05/14)	510,563	1,265,837	27°48'55.22"	82°27'01.60"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Ckd by: GR
Rev. No.
Date: DD MMM YYYY

X:\XXXXXXXX-XXXXXXX\XXXXXXXX-XXXXXXXXXX-XXXXXXXXXX\14-098-V-CONN.DGN
14-098-V-CONN.DGN
14-098-V-NAV.DGN
14-098-V-SOUN_CTA_HF.DGN
14-098-V-SOUN_CTA_VF.DGN
TAMPA HARBOR-C-SPMICF.DGN
14-098-C-ES-SHDR.DGN
Reference files:
14-098-V-H-A_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 47+00 CUT-A (HB) THRU STA. 17+00 CUT-C (HB)

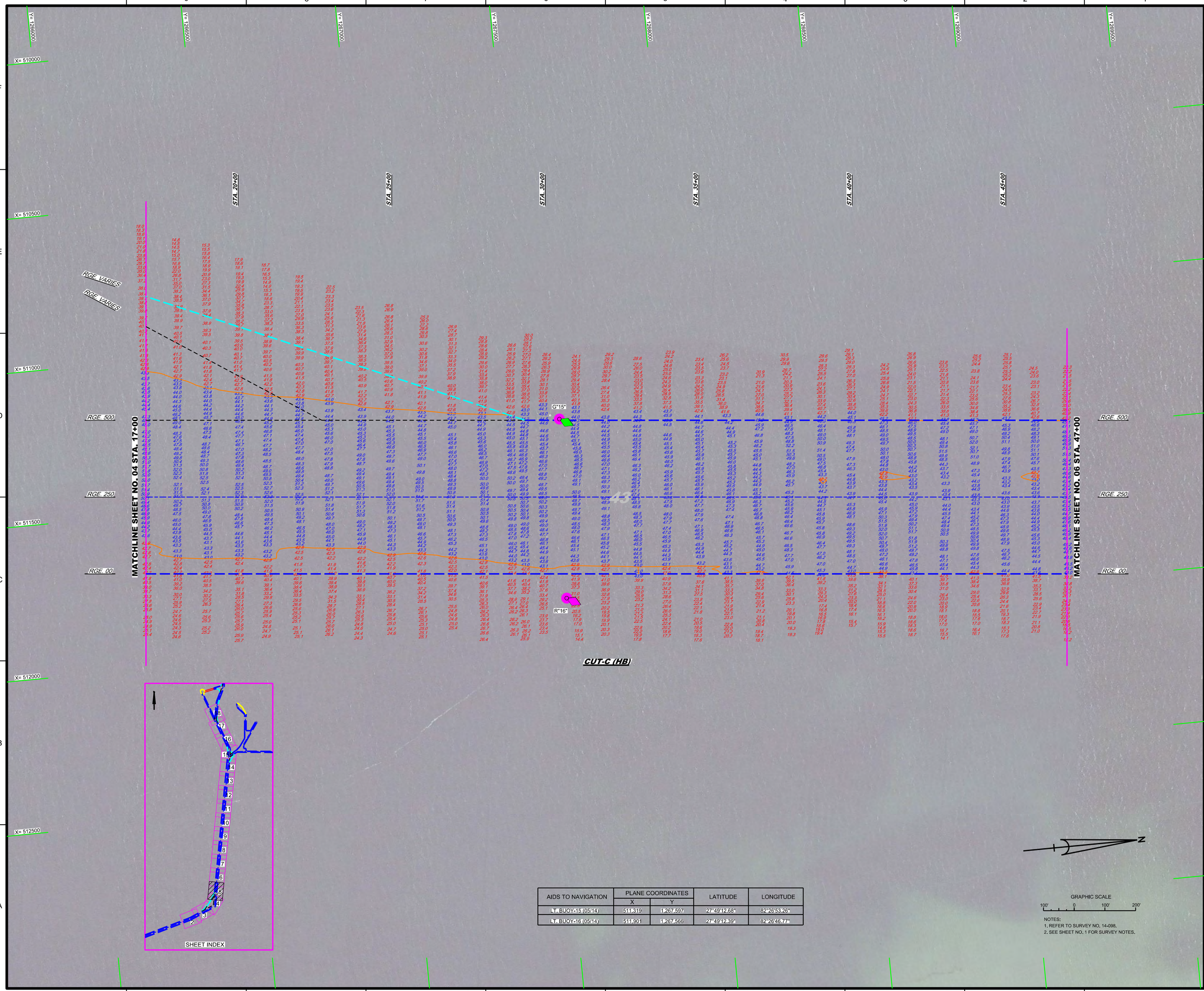
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET XX OF XX



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-15 (05/14)	511,319	1,267,597	27°49'12.68"	82°26'53.26"
LT. BUOY-16 (05/14)	511,901	1,267,566	27°49'12.39"	82°26'46.77"

NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Drawn by: WRM
Checked by: GB
Rev. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
14-098A-ZCON43.DGN
14-098A-SOUL_CTC.DGN
14-098A-SOUL_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098A-CBS-BRDR.DGN
Reference files
14-089-VRef5_26.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 17+00 THRU STA. 47+00 CUT-C (HB)

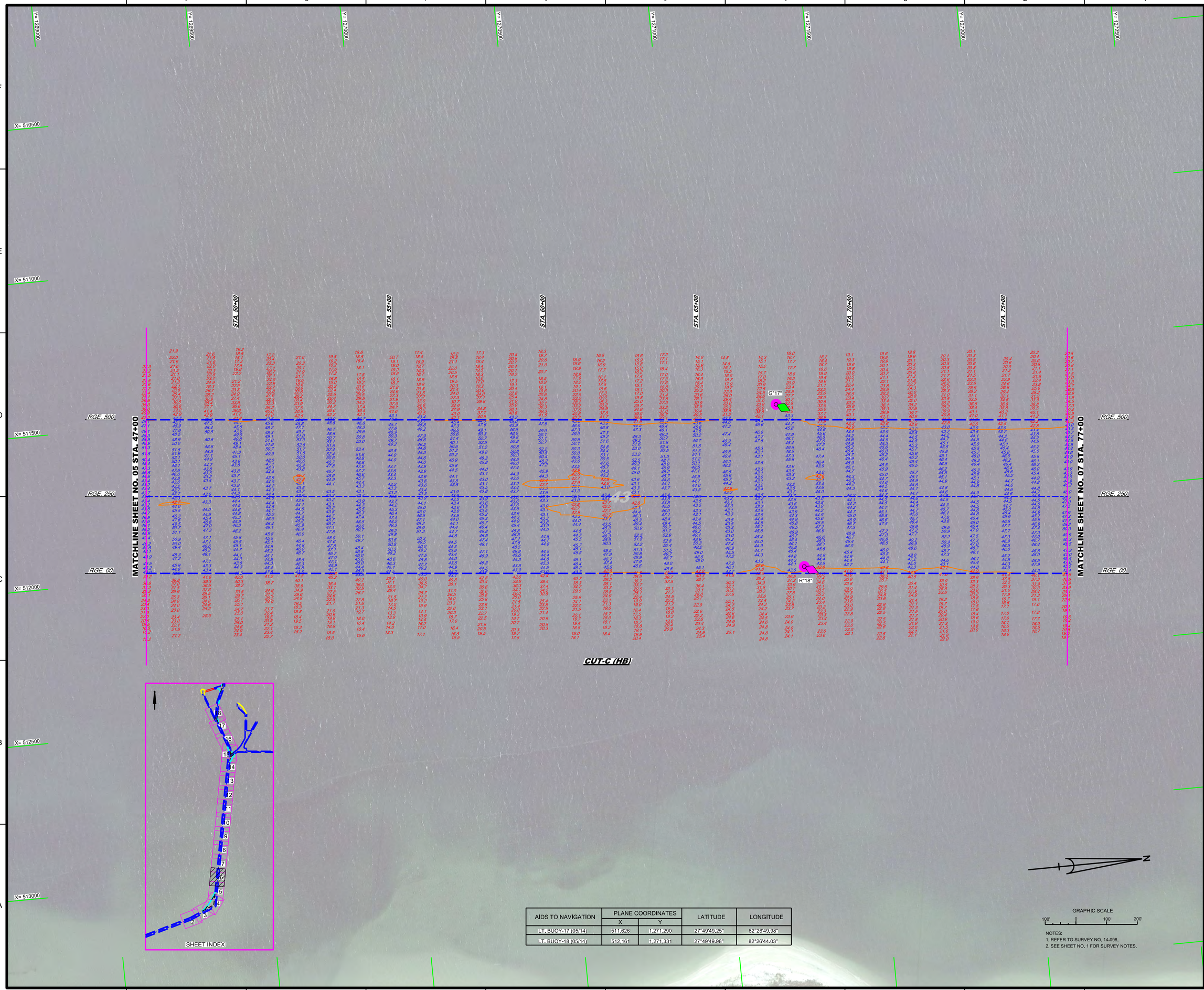
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-17 (05/14)	511,626	1,271,290	27°49'49.25"	82°26'49.98"
LT. BUOY-18 (05/14)	512,161	1,271,331	27°49'49.98"	82°26'44.03"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Date: DD.MMM.YYYY
Rev. No.

X:\XXXXXXXX-XXXXXXX\XXXXXXXX-XXXXXXX.DGN
X:\XXXXXXXX-XXXXXXX\XXXXXXXX-XXXXXXX.DGN
X:\XXXXXXXX-XXXXXXX\XXXXXXXX-XXXXXXX.DGN
14-098-M-CONTS.DGN
14-098-M-SOUN_CTC_HB.DGN
14-098-M-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPM/CCF.DGN
14-098-C-ES-SHDR.DGN
Reference files:
14-098-VHB_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 47+00 THRU STA. 77+00 CUT-C (HB)

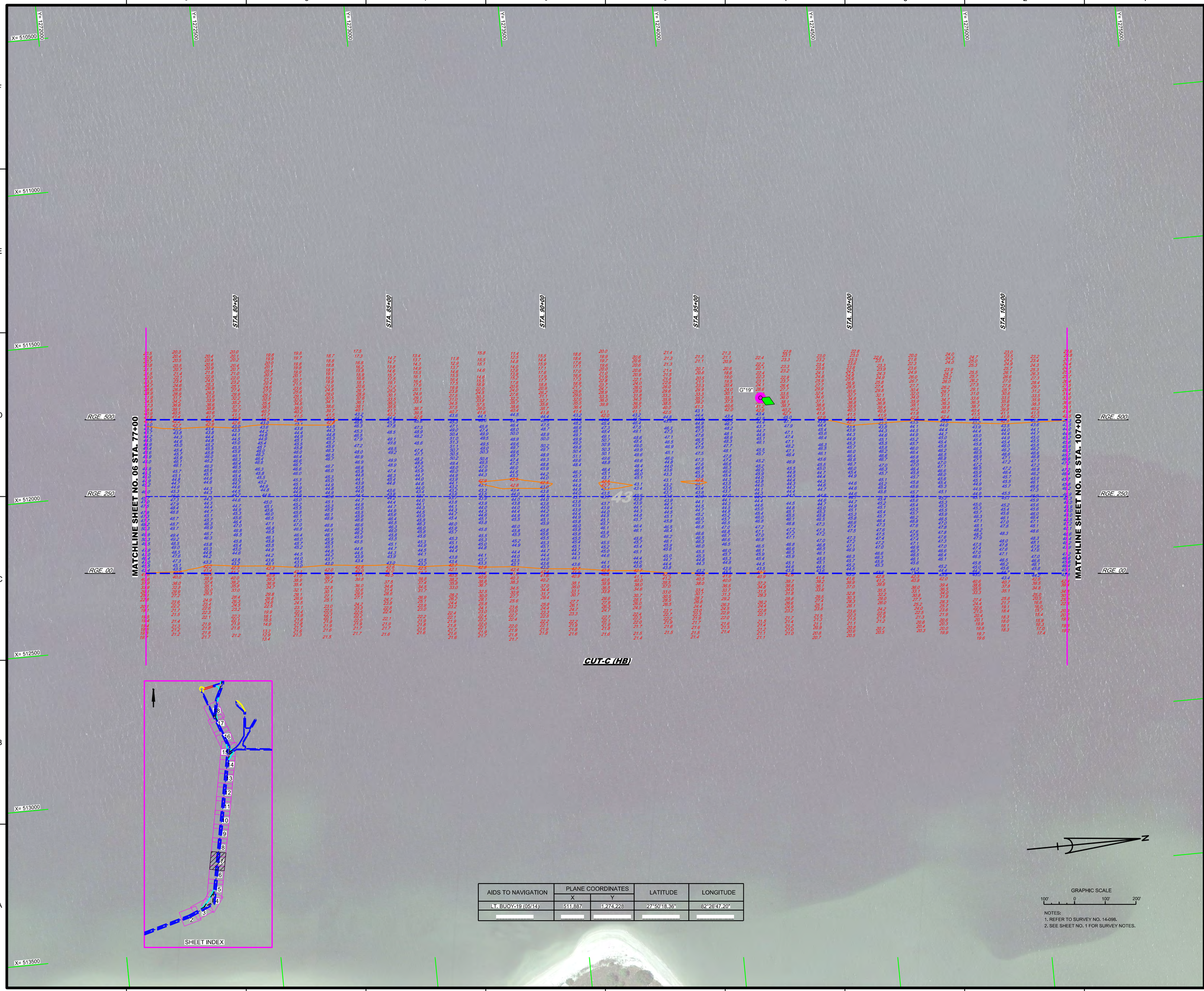
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-19 (05/14)	511,887	1,274,228	27°50'18.36"	82°26'47.20"

NOTES:
1. REFER TO SURVEY NO. 14-098.
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.
Date: DD.MMM.YYYY

X:\XXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
14-098-M-CONM3.DGN
14-098-M-SOUN_CTC.DGN
14-098-M-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMICCF.DGN
14-098-C-ESS-BNDR.DGN
Reference files:
14-098-VHS/7_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 77+00 THRU STA. 107+00 CUT-C (HB)

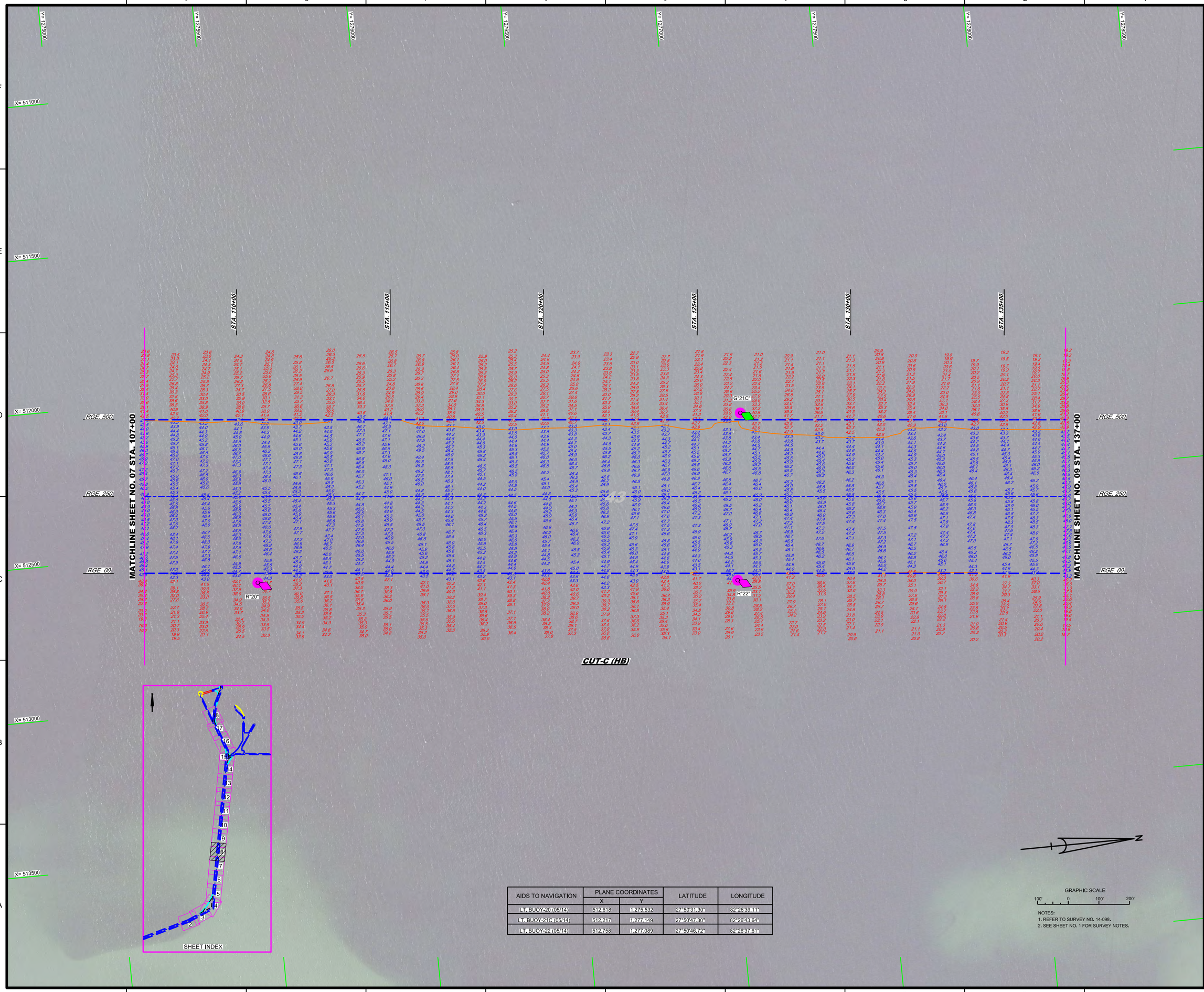
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-20 (05/14)	512,618	1,275,532	27°50'31.30"	82°26'39.11"
LT. BUOY-21C (05/14)	512,217	1,277,149	27°50'47.30"	82°26'43.64"
LT. BUOY-22 (05/14)	512,758	1,277,089	27°50'46.72"	82°26'37.61"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Cad by: GR
Rev. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
14-098-A-CON43.DGN
14-098-A-SOUN_CTC.DGN
14-098-A-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-ESHBDR.DGN
Reference files:
14-098-VHB_ZBLDGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 107+00 THRU STA. 137+00 CUT-C (HB)

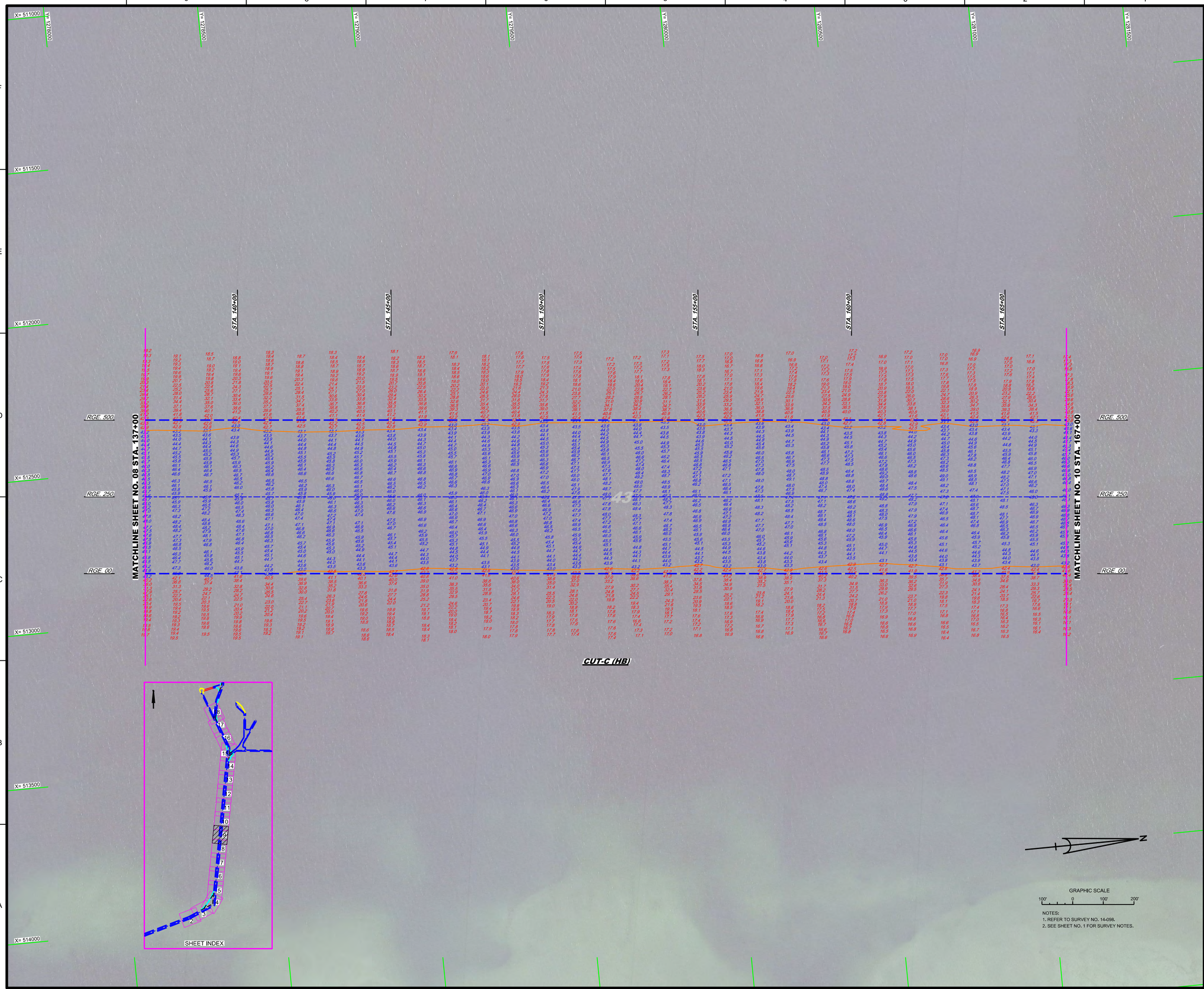
PLAN

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 18



NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Drawn by: WRM
Checked by: GB
Date: DD MMM YYYY
Proj. No.

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
14-098-A-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-B5-BRDR.DGN
Reference files:
14-089-VHs59_26.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 137+00 THRU STA. 167+00 CUT-C (HB)

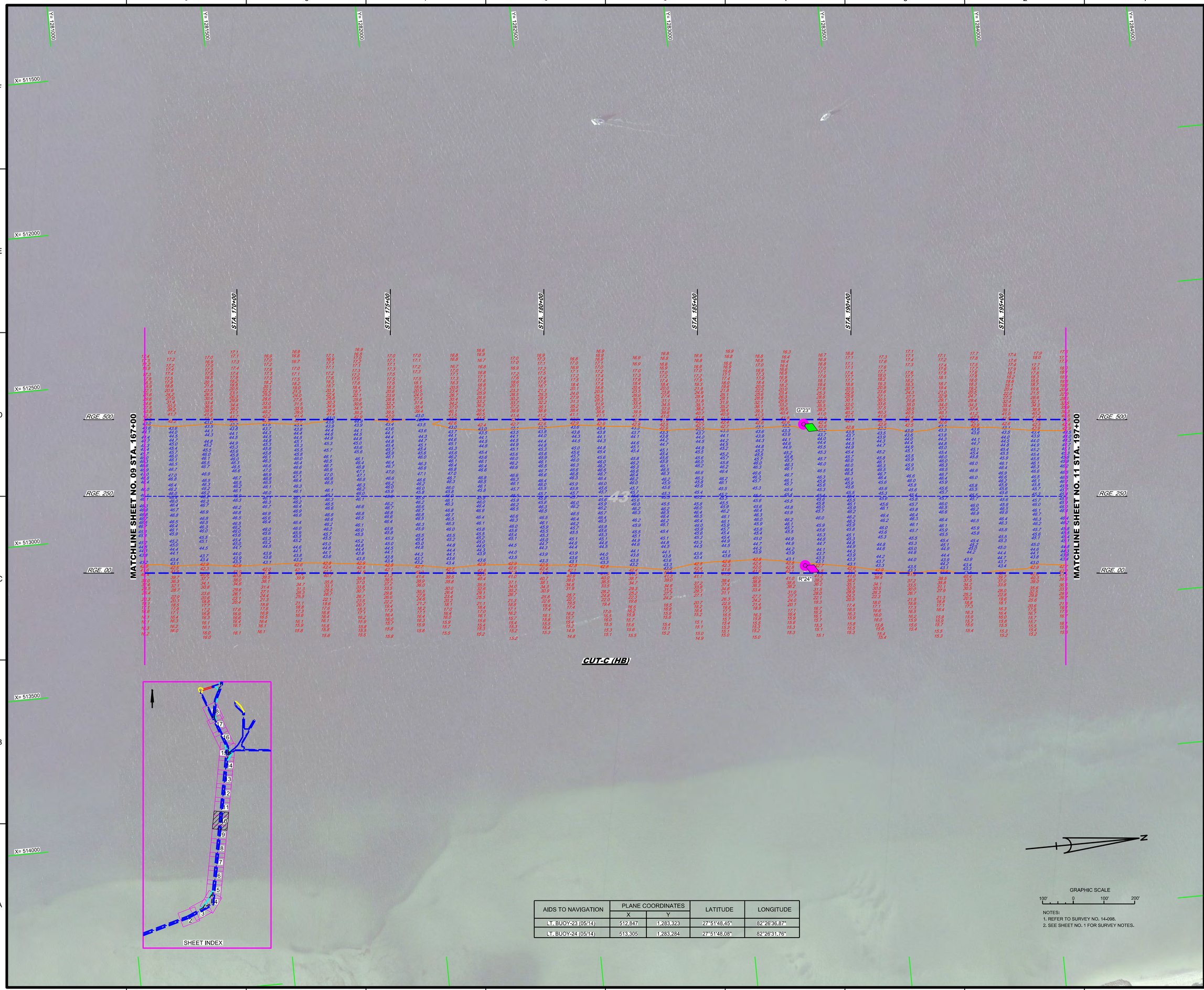
PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-23 (05/14)	512,847	1,283,323	27°51'48.45"	82°26'36.87"
LT. BUOY-24 (05/14)	513,305	1,283,284	27°51'48.08"	82°26'31.76"

NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Date: DD MMM YYYY
Proj. No.

X:\XXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
14-098A-SCONS43.DGN
14-098A-SOUN_CTC.DGN
14-098A-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-BS-BRDR.DGN
Reference files
14-089-HH-10_26.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 167+00 THRU STA. 197+00 CUT-C (HB)

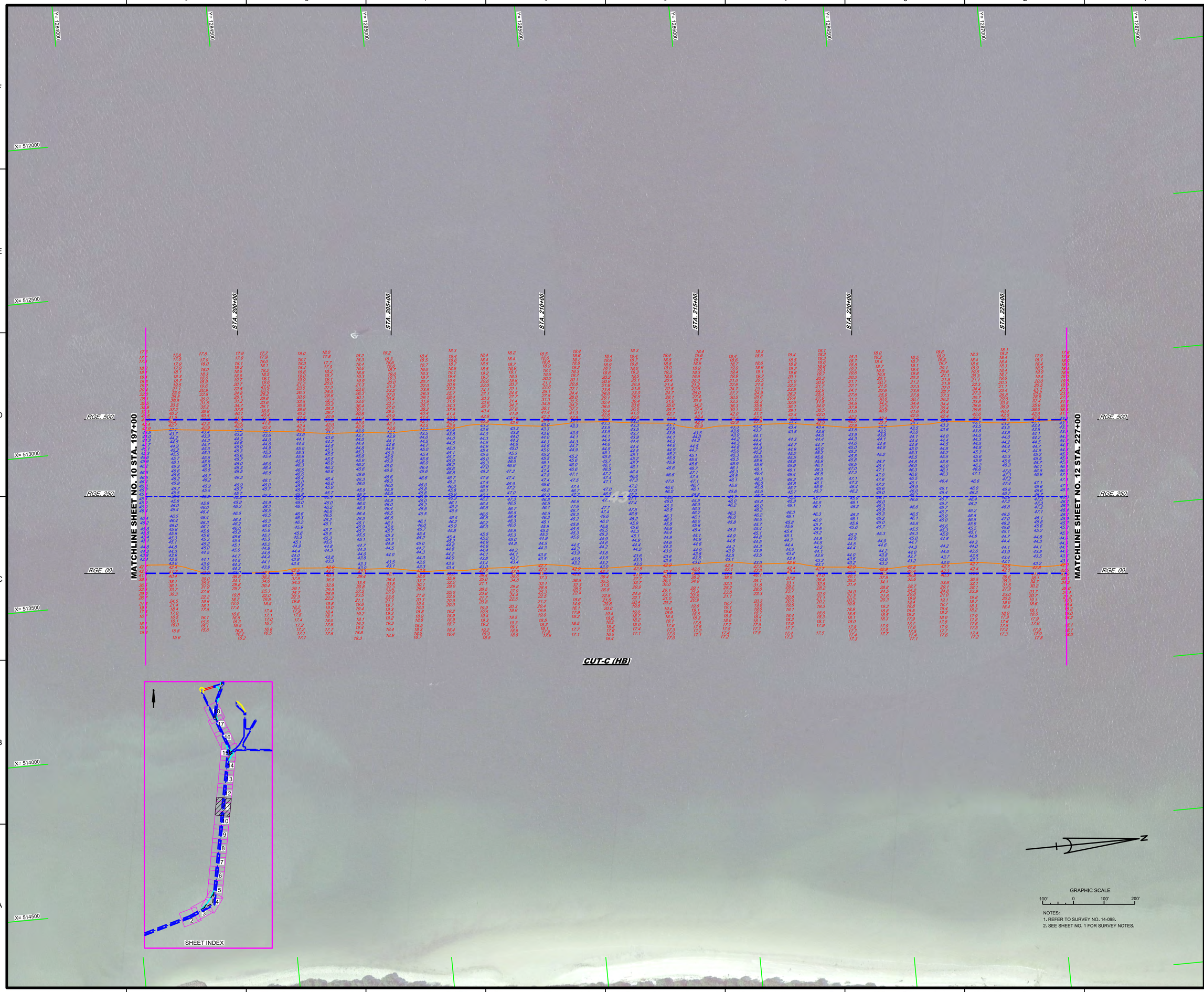
PLAN

Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 18



NOTES:
1. REFER TO SURVEY NO. 14-098.
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.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
14-098-N-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-BSHDR.DGN
Reference files:
14-098-VH-1_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 197+00 THRU STA. 227+00 CUT-C (HB)

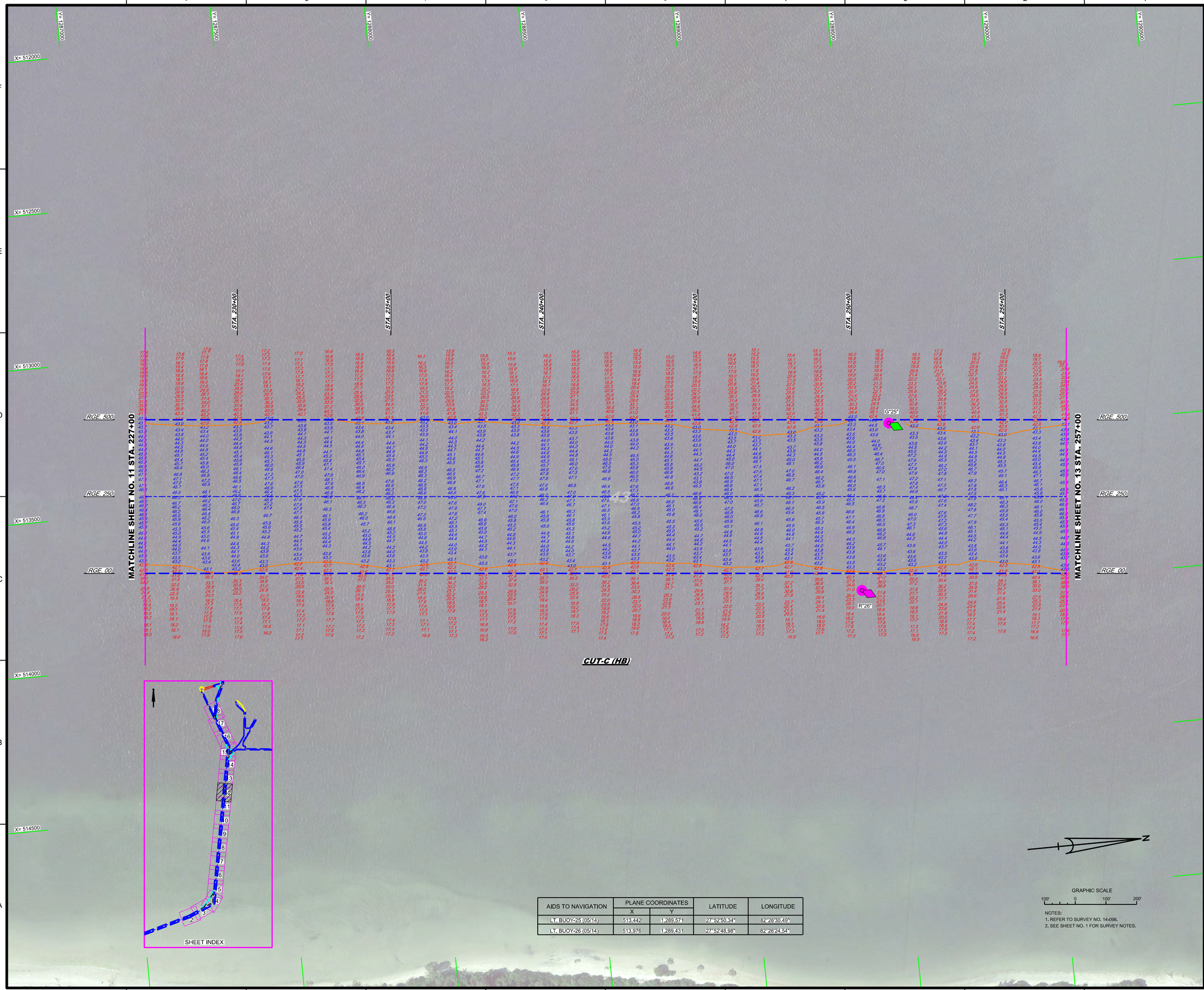
PLAN

Scale: AS SHOWN

Drawing no.

11

SHEET 11 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-25 (05/14)	513,442	1,289,571	27°52'50.34"	82°26'30.49"
LT. BUOY-26 (05/14)	513,976	1,289,431	27°52'48.98"	82°26'24.54"

NOTES:
1. REFER TO SURVEY NO. 14-098.
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
Date: DD.MMM.YYYY
Rev. No.

X:\XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
14-098-M-CONTS.DGN
14-098-M-SOUN.DGN
14-098-M-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-ES-BNDR.DGN
Reference files:

14-098-VH-12_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 227+00 THRU STA. 257+00 CUT-C (HB)

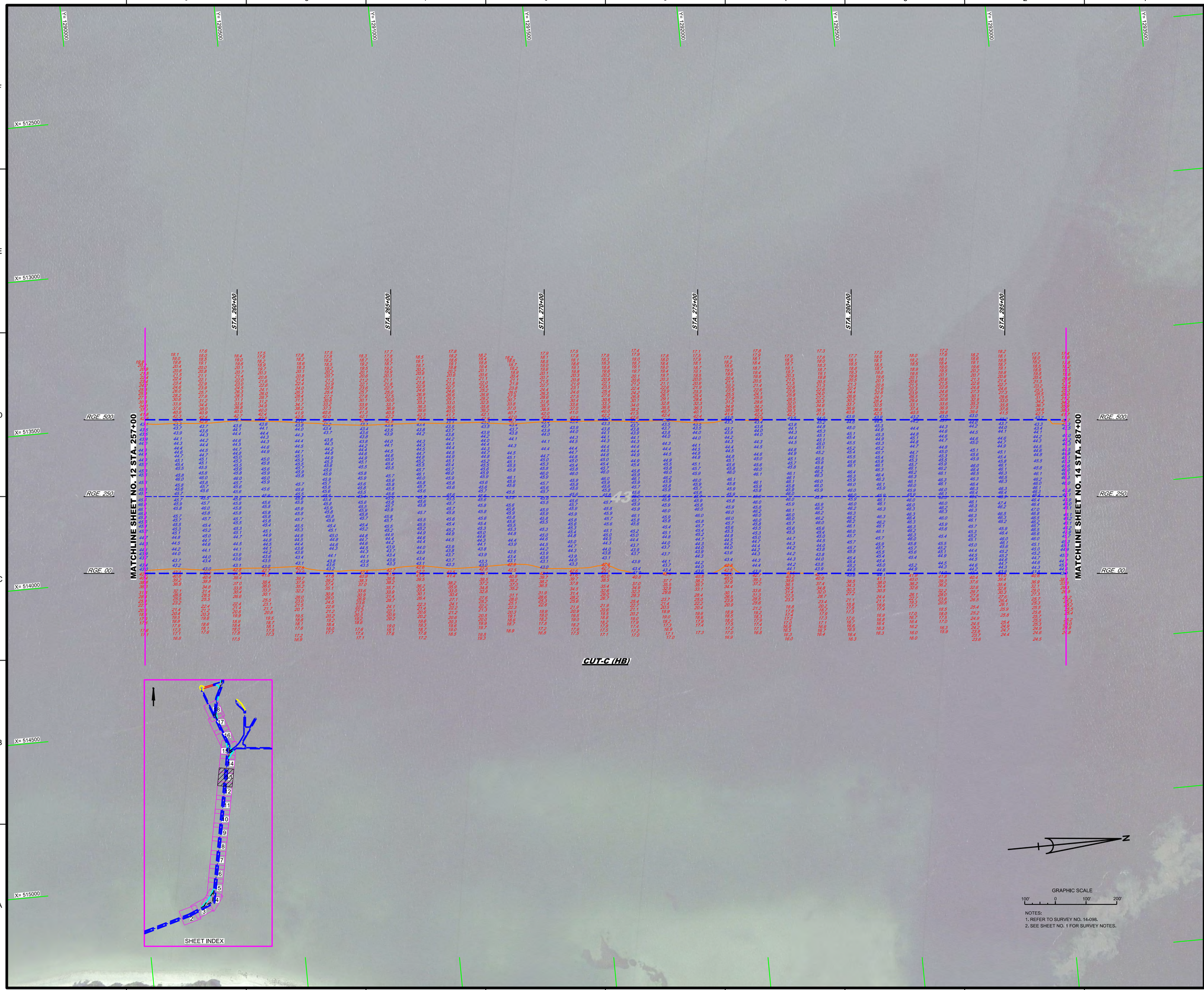
PLAN

Scale: AS SHOWN

Drawing no.

12

SHEET 12 OF 18



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.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
14-098-A-SOUN_CTC_HF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-BS-BRDR.DGN
Reference files:
T4-098-VH-13_ZBLDGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 257+00 THRU STA. 287+00 CUT-C (HB)

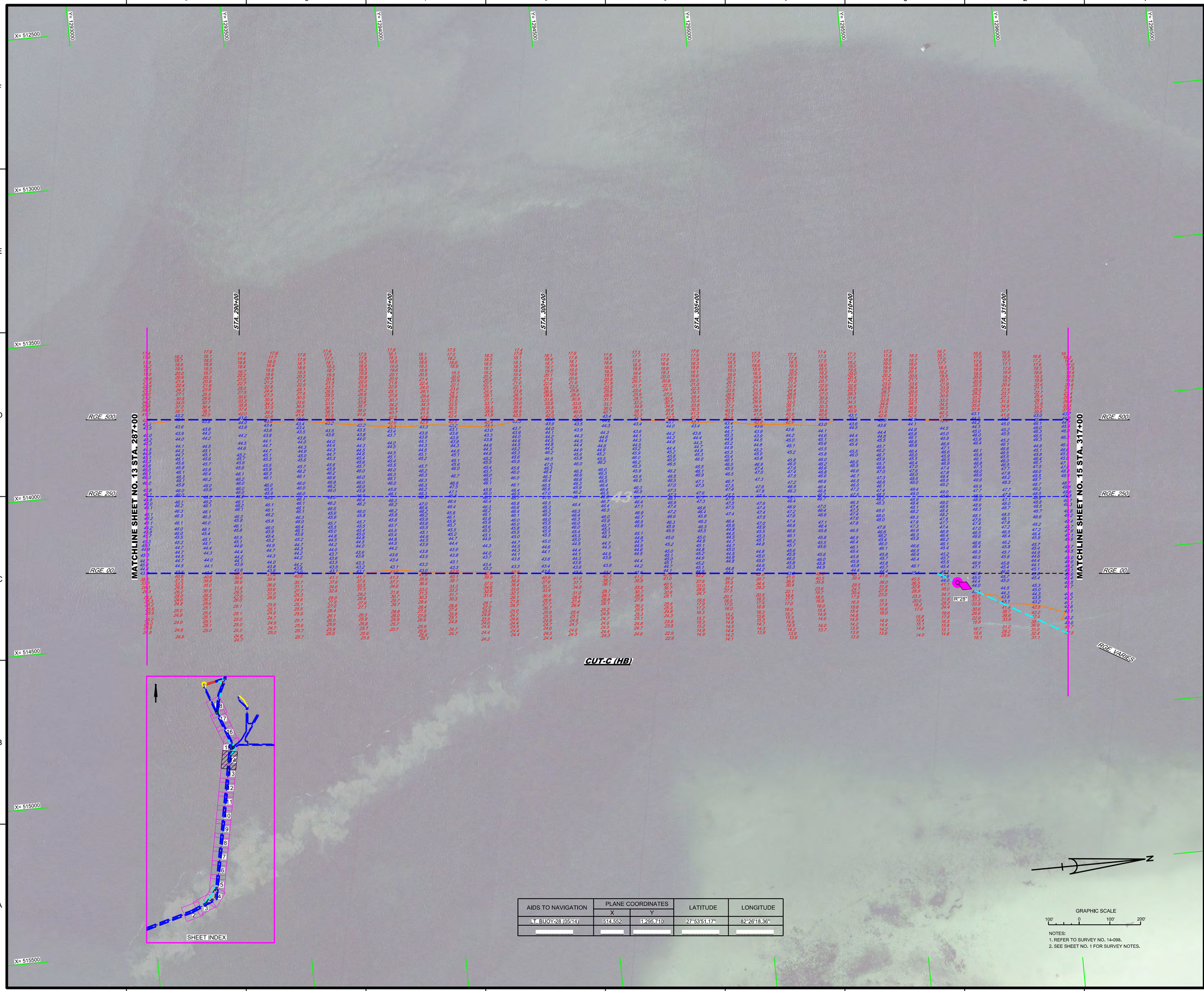
PLAN

Scale: AS SHOWN

Drawing no.

13

SHEET 13 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-28 (05/14)	514,552	1,295,710	27°53'51.17"	82°26'18.36"

NOTES:
1. REFER TO SURVEY NO. 14-098.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

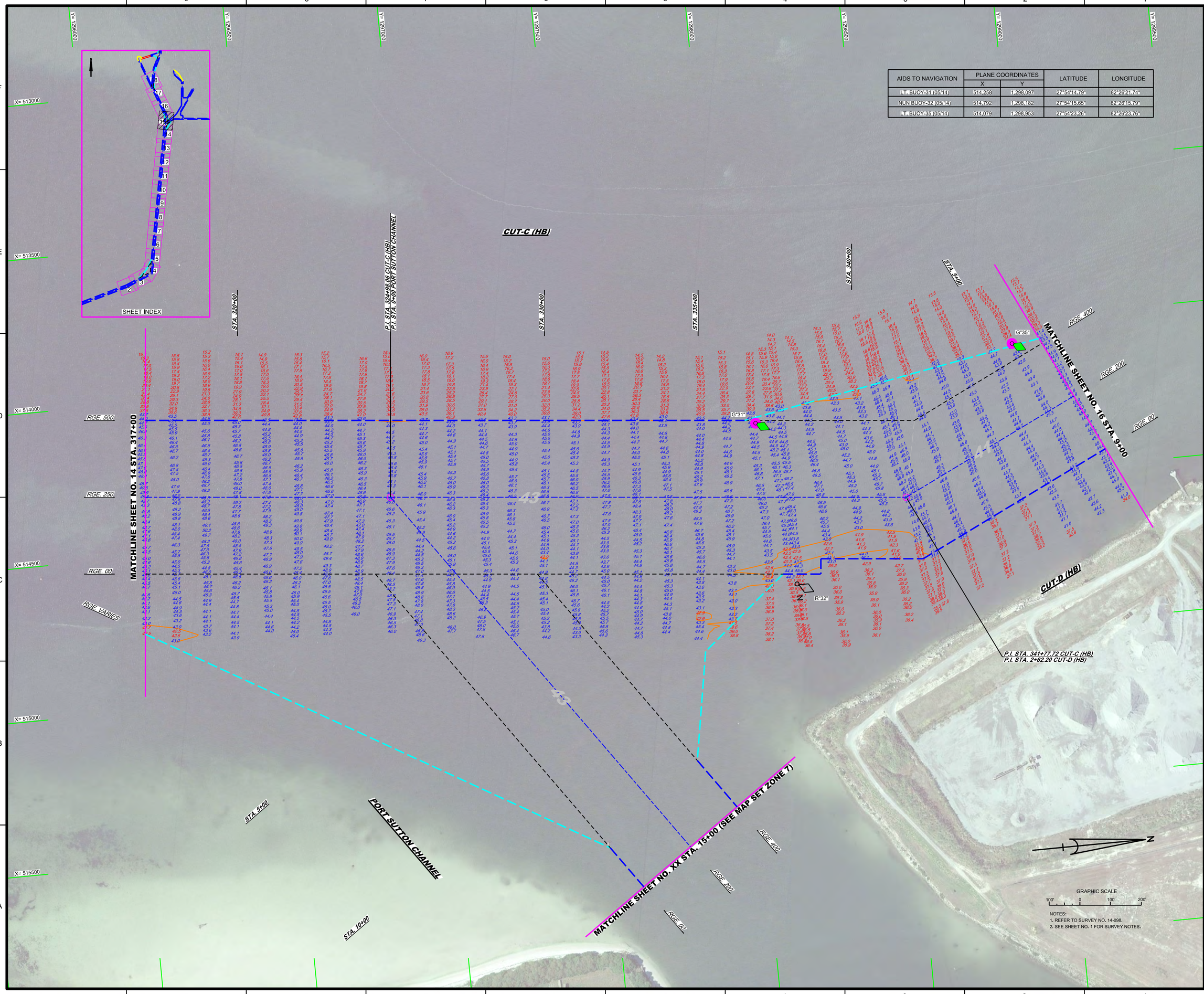
No.	Symbol	Zone	Description

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

Designed by: VIRM
Drawn by: VIRM
Checked by: GR
Rev. No.
Date: DD.MMM.YYYY

X:\XXXX

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-31 (05/14)	514,258	1,298,097	27°54'14.79"	82°26'21.74"
NUN BUOY-32 (05/14)	514,792	1,298,182	27°54'15.65"	82°26'15.79"
LT. BUOY-35 (05/14)	514,079	1,298,953	27°54'23.26"	82°26'23.76"



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.
Date: DD.MMM.YYYY

XXXXXXXXXXXXXXXXXXXX.DGN
14-098-XXCONALL.DGN
14-098-XXCONALL.DGN
14-098-VICONALL.DGN
14-098-VI-NAV.DGN
14-098-VI-SOUN_CTC_LE.DGN
14-098-VI-SOUN_CTC_LF.DGN
TAMPA HARBOR-CSPMCDF.DGN
14-098-CESHDR.DGN
Reference files:
14-098-VH-15_ZALDGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT
STA. 317+00 (MATCHLINE) STA. 9+00 (MATCHLINE)
STA. 0+00 THRU STA. 15+00 PORT SUTTON CHANNEL

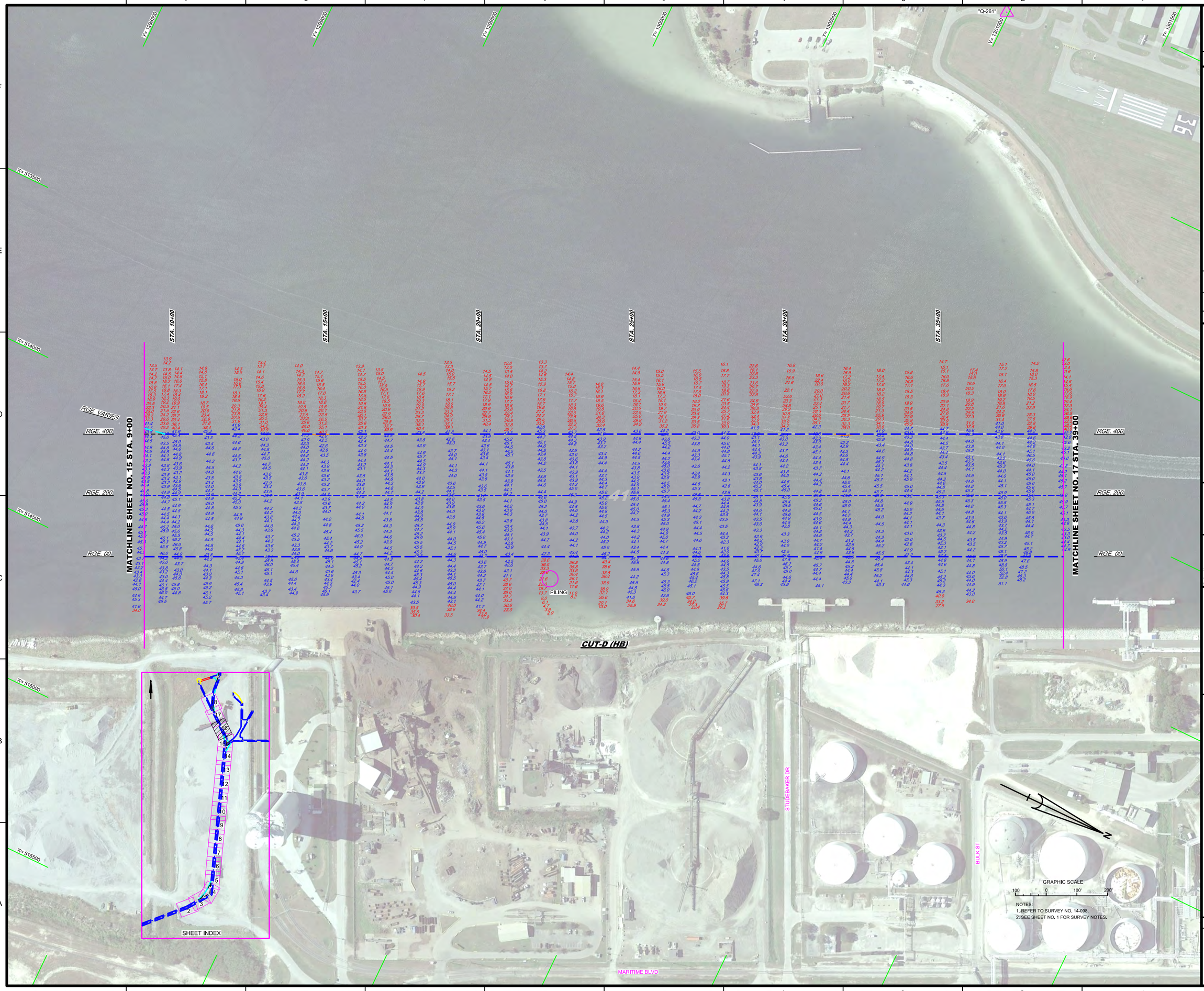
PLAN

Scale: AS SHOWN

Drawing no.

15

SHEET 15 OF 18



NOTES:
1. REFER TO SURVEY NO. 14-098.
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.
Date: DD.MMM.YYYY

X:\XXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
14-098-H-SOUN_CTD_LF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-ES-SRDR.DGN
Reference files:
14-098-VH-16_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

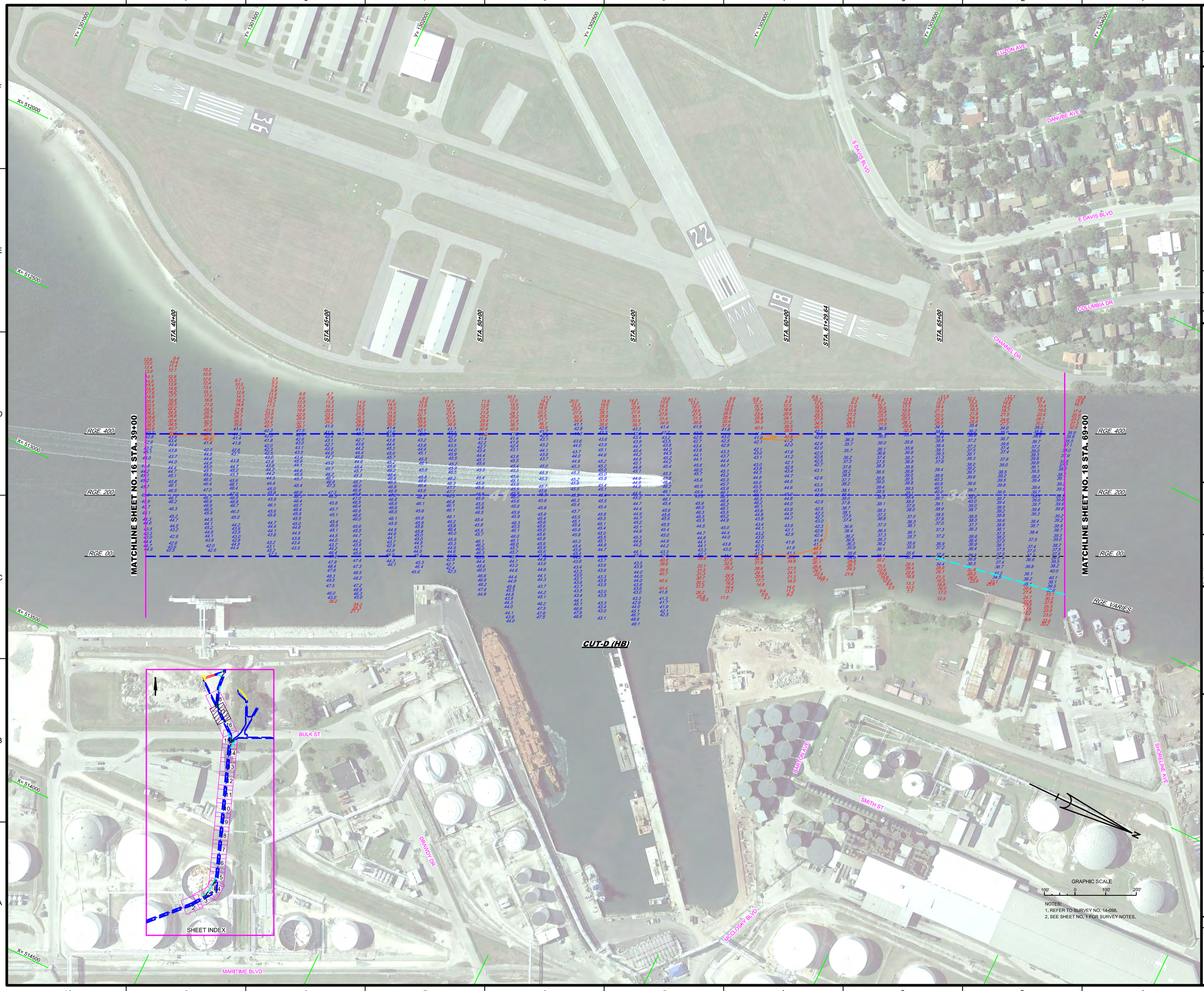
STA. 9+00 THRU STA. 39+00 CUT-D (HB)

PLAN

Scale: AS SHOWN

Drawing no.
16

SHEET 16 OF 18



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 by: GR
Rev. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
14-098-XXSUN_CTD_LF.DGN
14-098-A-SOUN_CTD_LF.DGN
TAMPA HARBOR-C-SPMCCF.DGN
14-098-C-ESHBDR.DGN
Reference files:
14-098-VH-T_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 39+00 THRU STA. 69+00 CUT-D (HB)

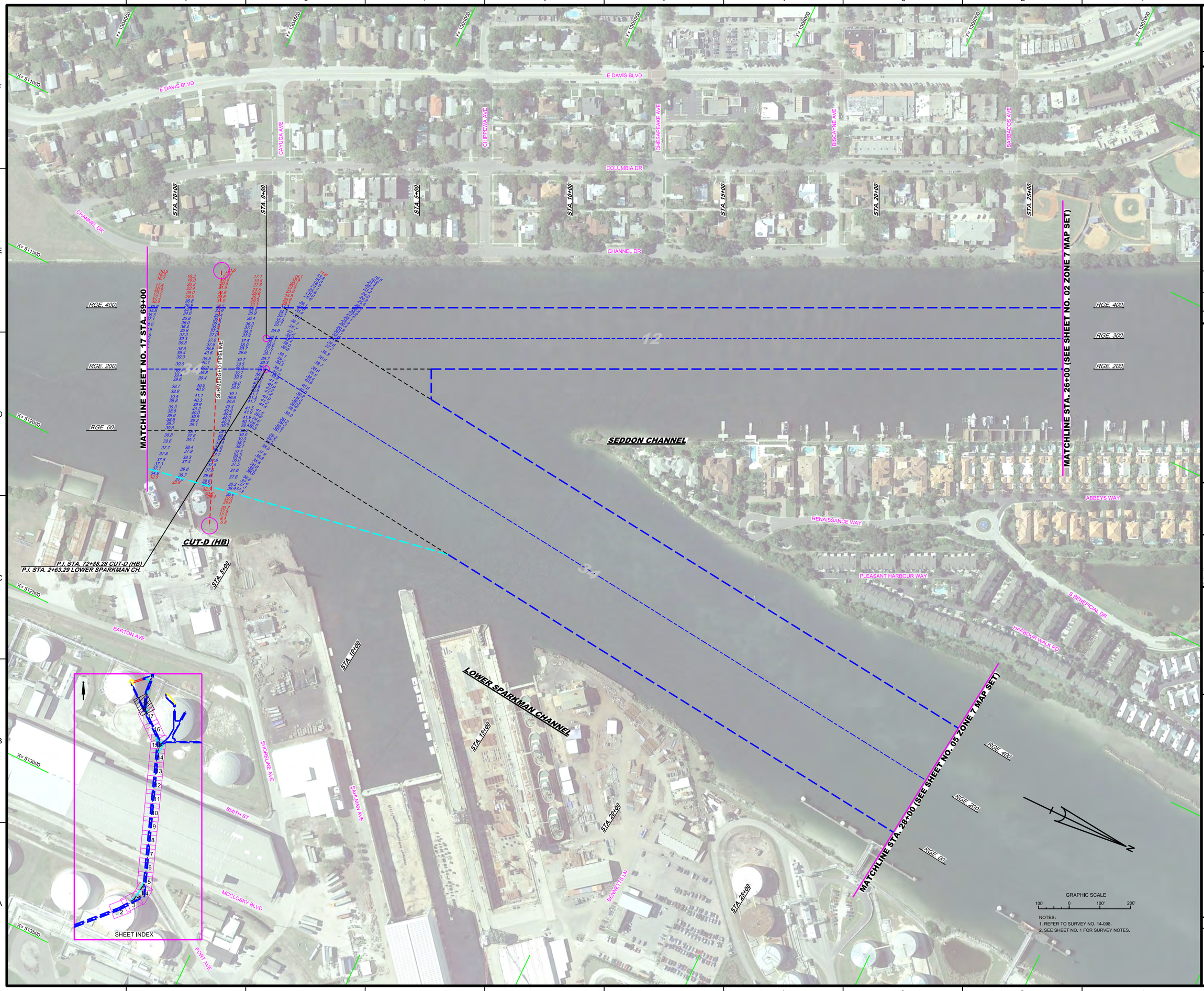
PLAN

Scale: AS SHOWN

Drawing no.

17

SHEET 17 OF 18



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
Drawn by: WRM
Checked by: GR
Rev. No.
Date: DD MMM YYYY

XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
14-098-HYDRO-FY14-34-41-43.DGN
14-098-HYDRO-FY14-34-41-43.DGN
14-098-HYDRO-SUN_CTD_LF.DGN
TAMPA HARBOR-CSPMCCF.DGN
14-098-CHESENDR.DGN
Reference files:
14-098-VH-18_ZB.DGN
File name:

TAMPA HARBOR
HILLSBOROUGH COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY14
34, 41 AND 43-FOOT PROJECT

STA. 69+00 THRU STA. 26+00 SEDDON CHANNEL
AND STA. 2+63.29 THRU STA. 28+00 LOWER SPARKMAN CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.

18

SHEET 18 OF 18