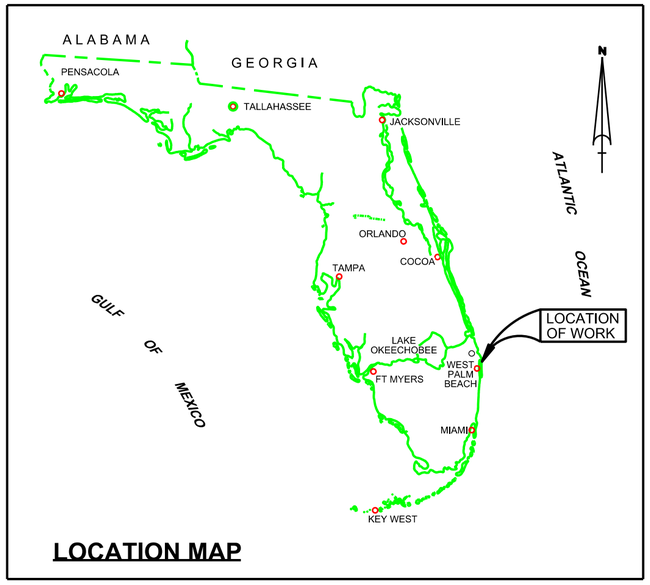
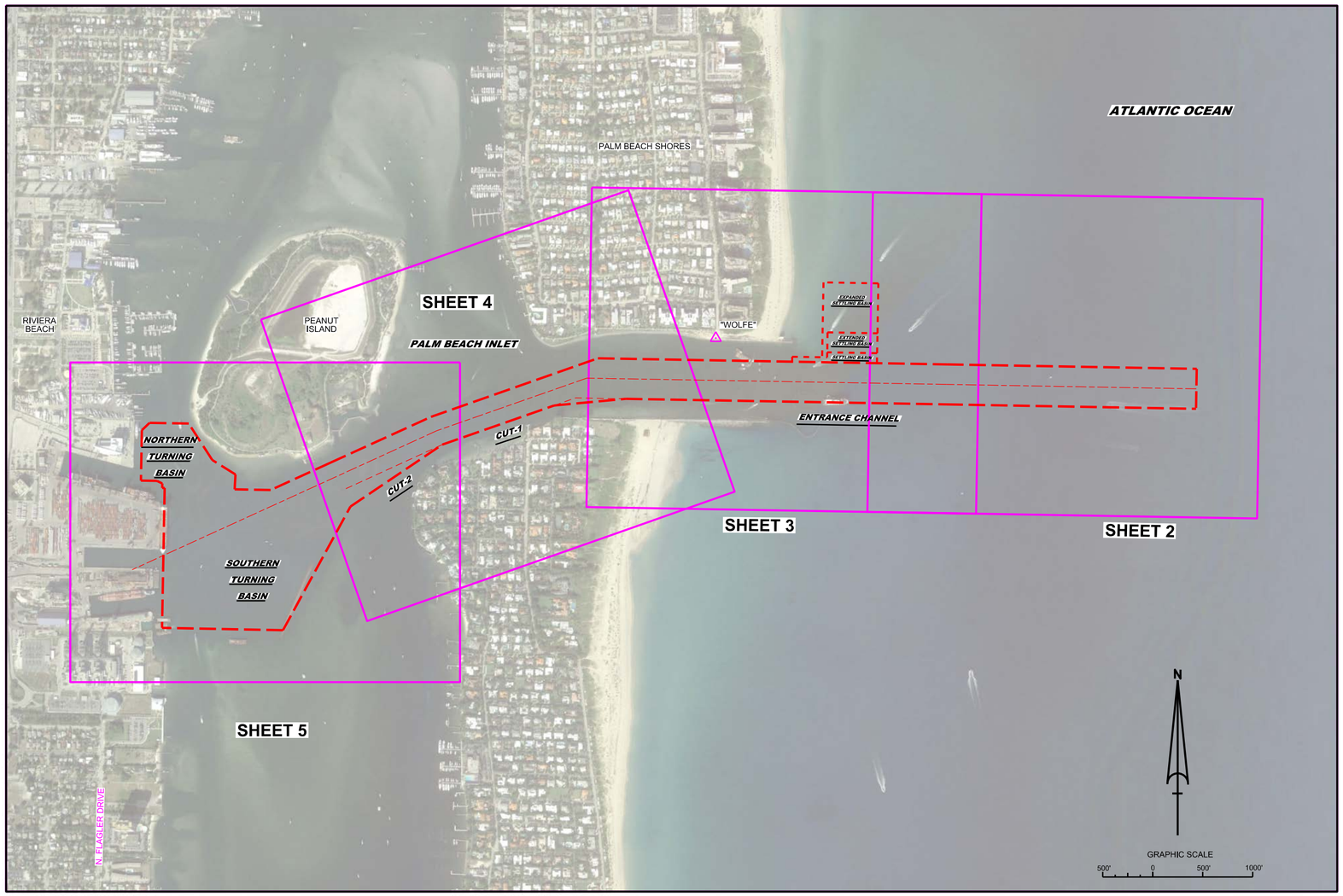
PALM BEACH HARBOR, FLORIDA
JUNE HYDROGRAPHIC EXAM SURVEY FY22
25, 33, 35, 37 & 39-FOOT PROJECT



LOCATION MAP



SURVEY NOTES

1. REFER TO SURVEY NO. 22-101.
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. KTD FILE NAME IS: "PALMBEACH_2018 05 03.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 THE CURRENT REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83), BASED ON THE NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS).
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 LOCATION:

   REFERENCE BASE LOCATED AT "WOLFE" (OPUS PID: BBBZ46)

   TIDE STAFF LOCATED FROM "COE A 310 RESET" (PID: BBGN25)
8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001 AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). A MODIFIED VERSION OF NOAA'S VDATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHT OF THE BENCHMARK ASSOCIATED BELOW:

   NOAA TIDAL STATION 872-2588, PORT OF W. PALM BEACH, LAKE WORTH (PID: BBGN25)

   VERTICAL MEASUREMENTS WERE MADE USING A RESON T50 AND A CEEHYDRO DUAL-FREQUENCY SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-44	18 MAY 2022	SETTLING BASINS
SB-44	01 JUN 2022	ENTRANCE CHANNEL
SB-44	02 JUN 2022	CUTS 1 AND 2
SB-44	03 JUN 2022	TURNING BASIN

9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. 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.
11. 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 2013.

LEGEND	
△	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: WRM
Drawn by: WRM
Cad by: CMB
Rev. No.
Date: JUN 2022

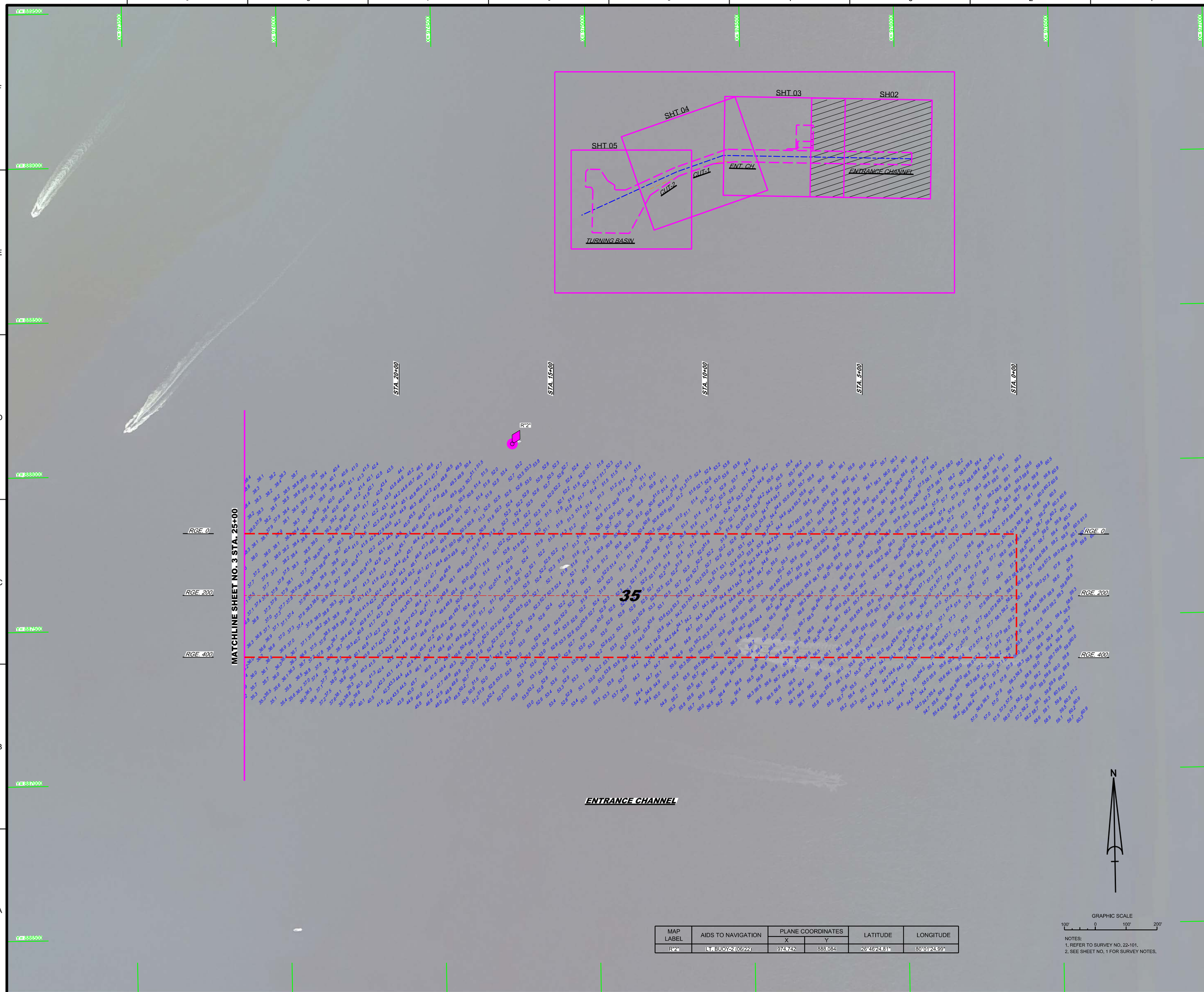
Reference files:
22-101-VINDEX.DGN
PALM BEACH HARBOR-C-NGMCOF.DGN
22-101-C-PB-SHDR.DGN
22-101-VH-SH01.DGN

PALM BEACH HARBOR, FLORIDA
JUNE HYDROGRAPHIC EXAM SURVEY FY22
25, 33, 35, 37 & 39-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 05



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2"	LT. BUOY-2 (06/22)	974,742	888,084	26°46'24.81"	80°01'24.99"

NOTES:
1. REFER TO SURVEY NO. 22-101.
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
Chkd by: CMR
Rev. No.
Date: JUN 2022

72-101-NAVAU.DGN
22-101-VIQUIN_EC.DGN
PALM BEACH HARBOR-C-NGMCF.DGN
22-101-C-ES-SHDR.DGN
Reference files:

22-101-VIHS-SHO2.DGN
File name:

PALM BEACH HARBOR, FLORIDA

JUNE HYDROGRAPHIC EXAM SURVEY FY22
25, 33, 35, 37 & 39-FOOT PROJECT

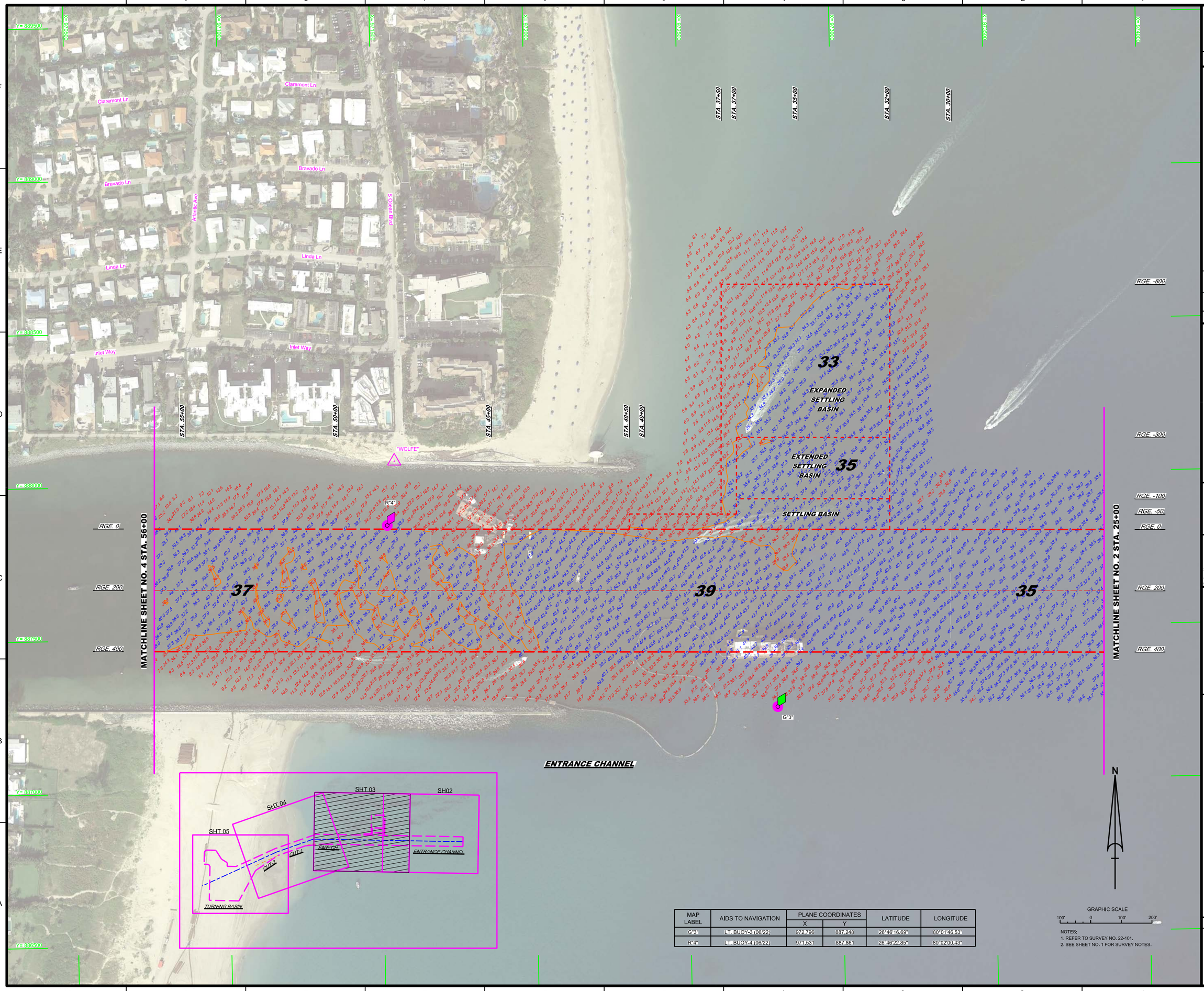
STA. 0+00 THRU STA. 25+00 ENTRANCE CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.
2

SHEET 02 OF 05



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (06/22)	972,796	887,248	26°46'16.69"	80°01'46.53"
R"4"	LT. BUOY-4 (06/22)	971,531	887,861	26°46'22.85"	80°02'00.43"

NOTES:
1. REFER TO SURVEY NO. 22-101.
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: JUN 2022

22-101-V-CONS.DGN
22-101-V-CONS3.DGN
22-105-V-CONS7.DGN
22-101-V-CONS8.DGN
22-101-V-SOUN_SB.DGN
22-101-V-SOUN_SB3.DGN
PALM BEACH HARBOR-C-N-GMCCF.DGN
22-101-V-FS-SINDR.DGN
22-101-V-FS-SINDR3.DGN
22-101-V-H-SHO3.DGN

Reference files:

File name:

PALM BEACH HARBOR, FLORIDA

JUNE HYDROGRAPHIC EXAM SURVEY FY22
25, 33, 35, 37 & 39-FOOT PROJECT

STA. 25+00 THRU STA. 56+00 ENTRANCE CHANNEL

PLAN

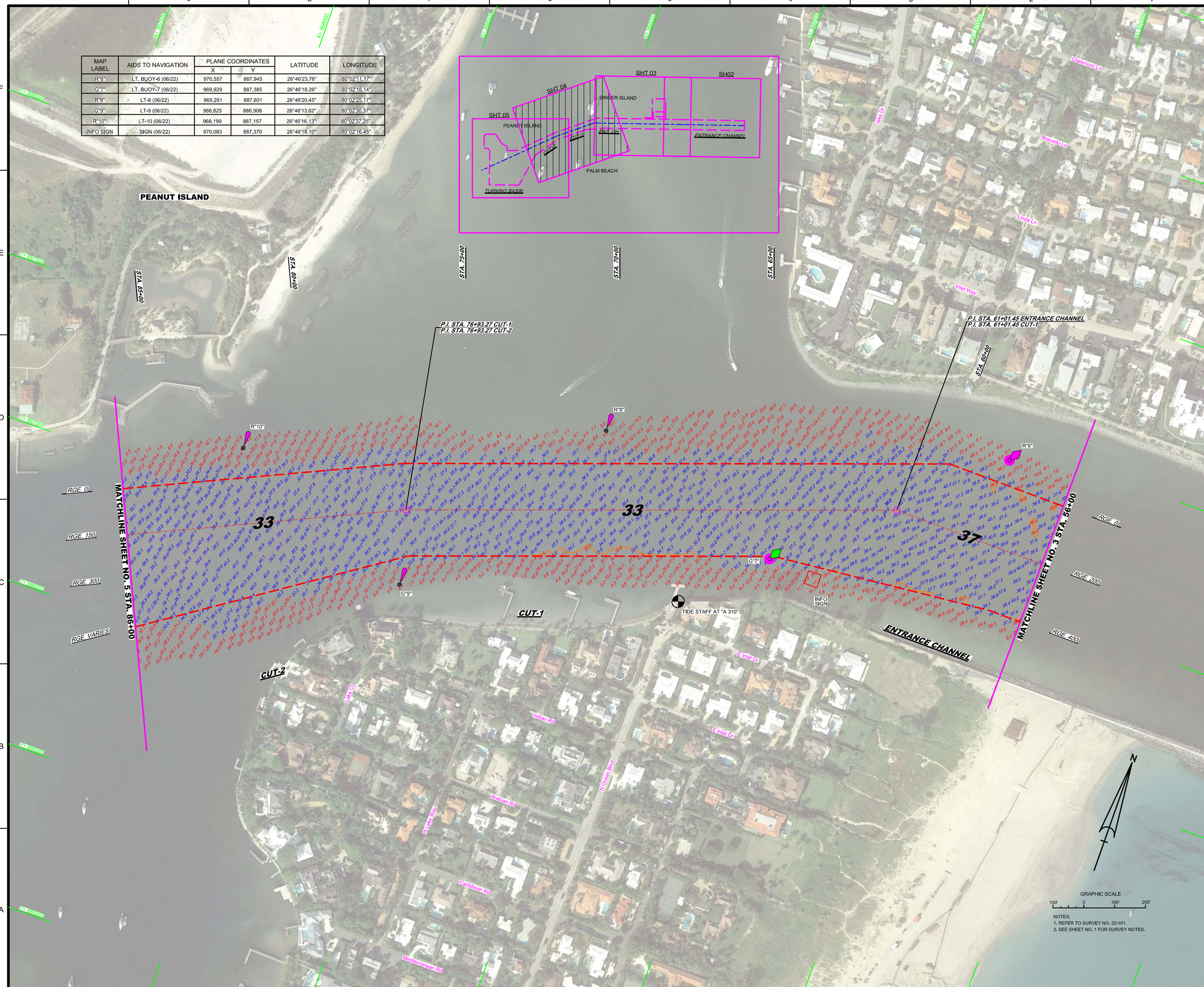
Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 05

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"6"	LT. BUOY-6 (06/22)	970,557	887,945	26°46'23.76"	80°02'11.17"
G"7"	LT. BUOY-7 (06/22)	969,929	887,385	26°46'18.26"	80°02'18.14"
R"8"	LT-8 (06/22)	969,291	887,601	26°46'20.45"	80°02'25.17"
G"9"	LT-9 (06/22)	968,825	886,908	26°46'13.62"	80°02'30.37"
R"10"	LT-10 (06/22)	968,199	887,157	26°46'16.13"	80°02'37.25"
INFO SIGN	SIGN (06/22)	970,083	887,370	26°46'18.10"	80°02'16.45"



NOTES:
1. REFER TO SURVEY NO. 22-101.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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: VIRM
DWN by: VIRM
Ckd by: CMR
Rev. No.
Date: JUN 2022

22-101-V-CONS.DGN
22-101-V-SOUL_EC.DGN
22-101-V-NAV.DGN
22-101-V-SOUL_EC.DGN
22-101-V-SOUL_CT.DGN
PALM BEACH HARBOR-C-N@MCCF.DGN
22-101-C-FS-SHDR.DGN
Reference files:

22-101-V-H-SH04.DGN
File name:

PALM BEACH HARBOR, FLORIDA

JUNE HYDROGRAPHIC EXAM SURVEY FY22
25, 33, 35, 37 & 39-FOOT PROJECT

STA. 56+00 ENTRANCE CHANNEL THRU STA. 86+00 CUT-2

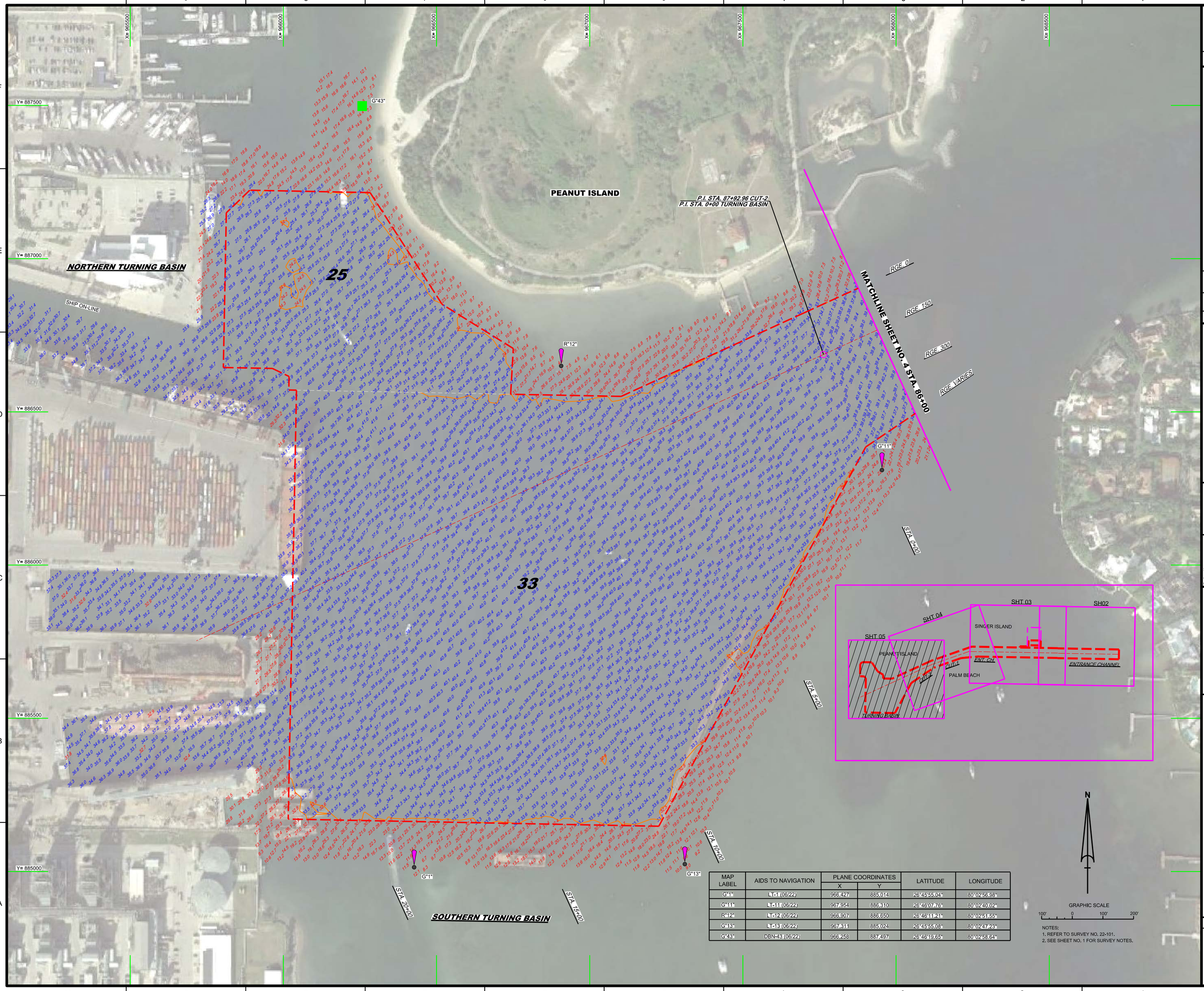
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 05



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT-1 (06/22)	966,427	885,014	26°45'55.04"	80°02'56.98"
G"11"	LT-11 (06/22)	967,954	886,310	26°46'07.76"	80°02'40.02"
R"12"	LT-12 (06/22)	966,907	886,650	26°46'11.21"	80°02'51.55"
G"13"	LT-13 (06/22)	967,311	885,024	26°45'55.08"	80°02'47.23"
G"43"	DBN-43 (06/22)	966,258	887,497	26°46'19.65"	80°02'58.64"

NOTES:
1. REFER TO SURVEY NO. 22-101.
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: GMR
Proj. No.:
Date: JUN 2022

AERIAL_SHT05.DGN
22-101-A-HYD-SHT05.DGN
22-101-A-CON3.DGN
22-101-A-CON4.DGN
22-101-A-SOUL_TE.DGN
PALM BEACH HARBOR-C-KSMCF.DGN
22-101-C-BR-BRDR.DGN
Reference files
File name:

PALM BEACH HARBOR, FLORIDA

JUNE HYDROGRAPHIC EXAM SURVEY FY22
25, 33, 35, 37 & 39-FOOT PROJECT

STA. 86+00 CUT-2 THRU TURNING BASIN

PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 05