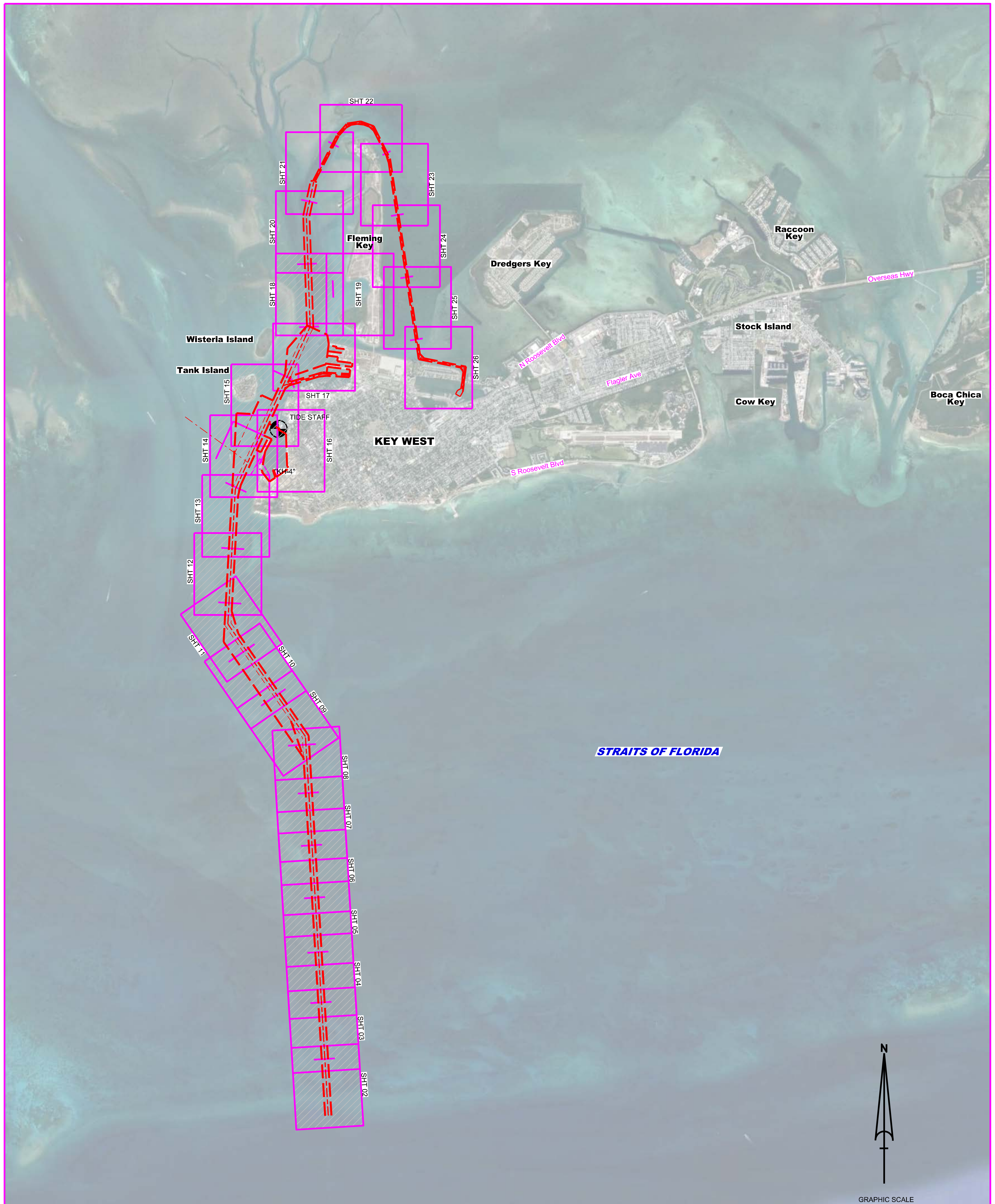
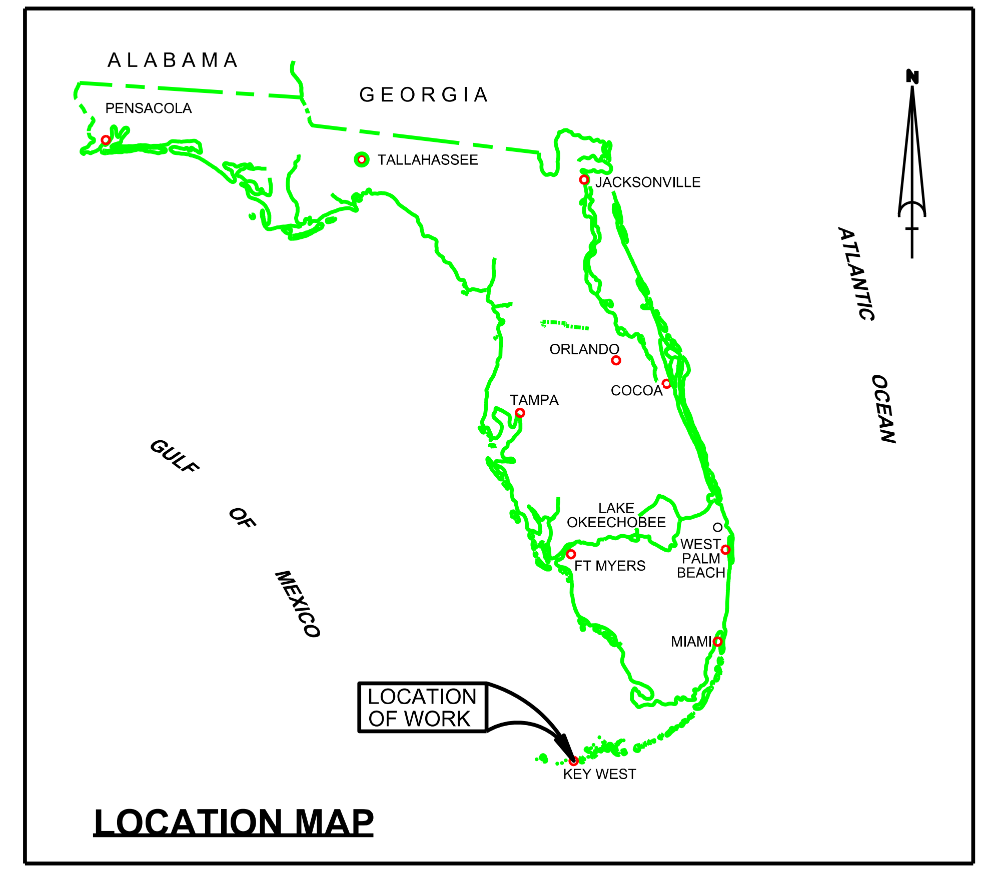


SHEET INDEX



LOCATION MAP

KEY WEST HARBOR
MONROE COUNTY, FLORIDA
NAVY PROJECT EXAM SURVEY FY21
26, 30 AND 34-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 21-180.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) TIDAL DATUM.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "BROWARD-MIAMIDADE-MONROE-COLLIER_2018 05 02.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. 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 HEIGHTS OF THE BENCHMARKS BELOW:

   NOAA TIDAL STATION 872-4580, KEY WEST, FLORIDA (PID: AA1753)

8. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "KH-04" (PID: BBCF03)

9. VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC 2026 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ AND A ROSS SMART SOUNDER 835C DUAL-FREQUENCY SOUNDER WITH A 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-52	15 JUN 2021	MAIN SHIP CHANNEL
SB-52	16 JUN 2021	CUTS A, B & C
SB-52	17 JUN 2021	CUT-C, KEYWEST BIGHTS 1 & 2, TURNING BASIN, USCG BERTHS
SB-52	18 JUN 2021	TURNING BASIN, NORTHWEST CH.
SB-52	19 JUN 2021	TRUMAN HARBOR, NORTHWEST CH.

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 2013 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 30 NOV 2013.

LEGEND

△	BENCHMARK
	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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
20-195-V-INDX.DGN
KWH_CHV8.DGN
KEY WEST HARBOR-C-NGMCCF.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-001.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA
NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1 / 18

SHEET 01 OF 26

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2"	LT. BUOY-2 (06/21)	390,085	49,887	24°28'06.60"	81°48'00.04"
G"3"	LT. BUOY-3 (06/21)	389,394	50,484	24°28'12.48"	81°48'07.55"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 0+00 THRU STA. 27+00 MAIN SHIP CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.

2 / 18

SHEET 02 OF 26

NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-SOUN_MSC.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-003.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

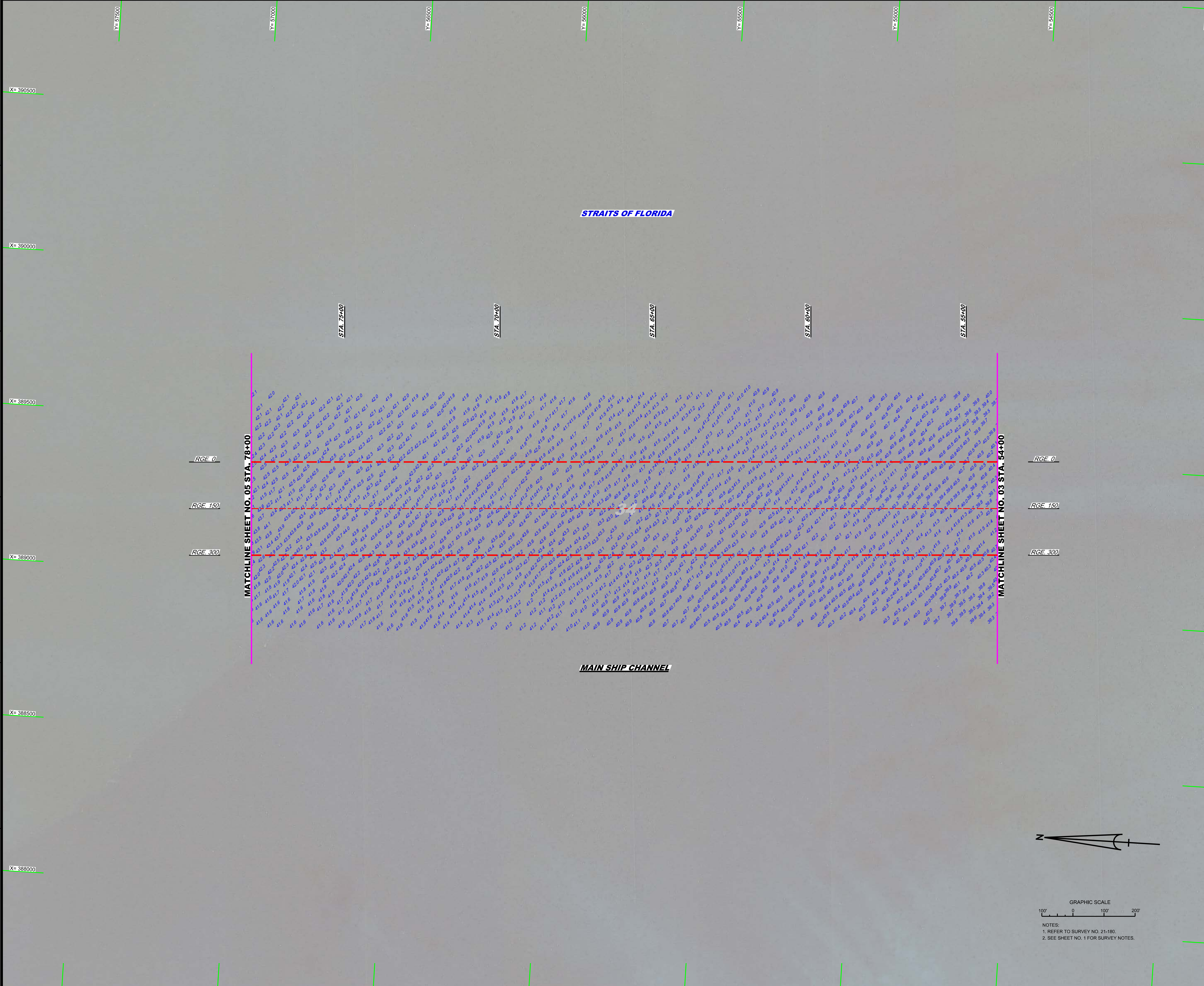
STA. 27+00 THRU STA. 54+00 MAIN SHIP CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.

3 / 18



NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-SOUN_MSC.DGN
KEY WEST HAROR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN
Reference files:
21-180-VH-004.DGN
File name:

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 54+00 THRU STA. 78+00 MAIN SHIP CHANNEL

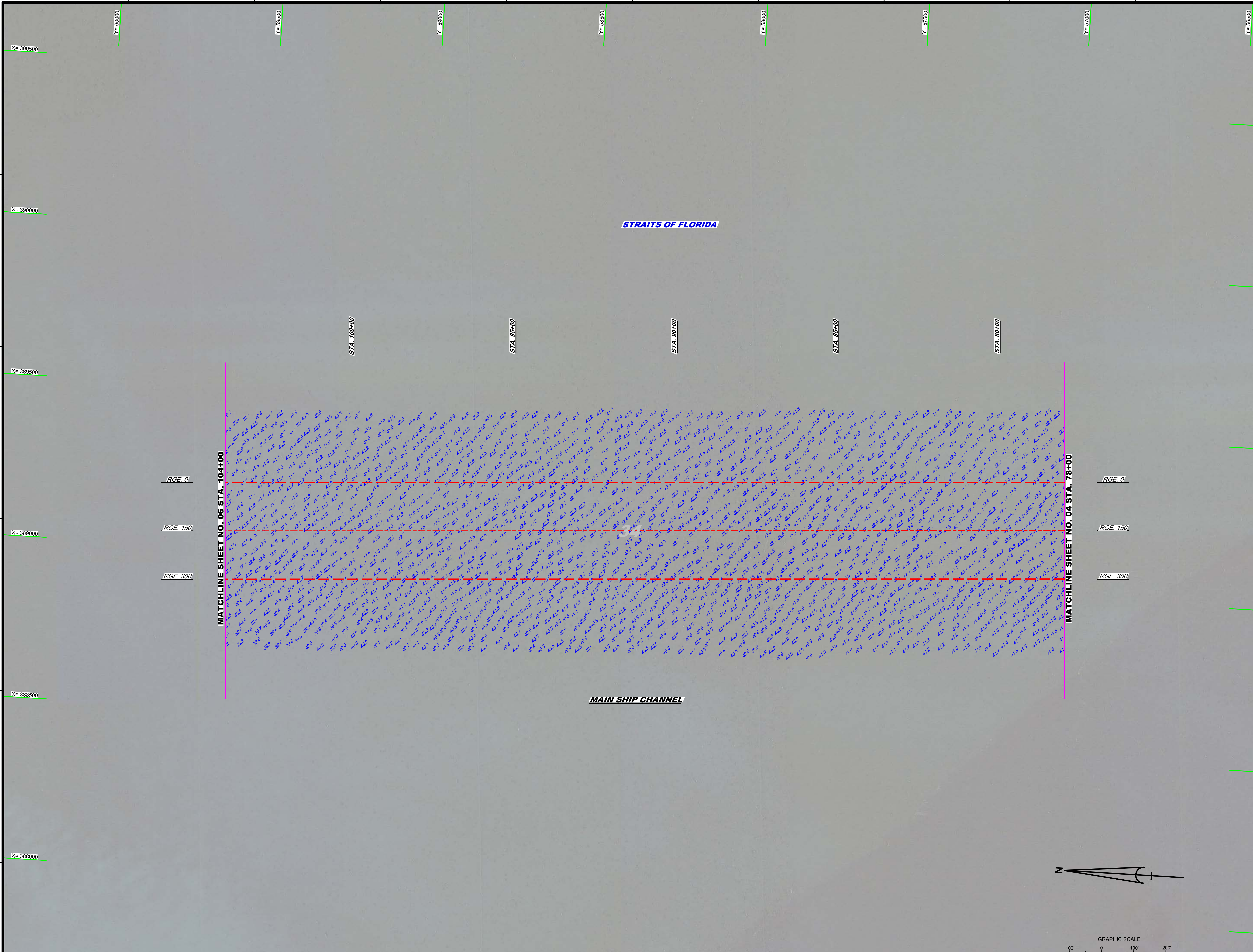
PLAN

Scale: AS SHOWN

Drawing no.

4 / 18

SHEET 04 OF 26



NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-SOUN_MSC.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-005.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 78+00 THRU STA. 104+00 MAIN SHIP CHANNEL

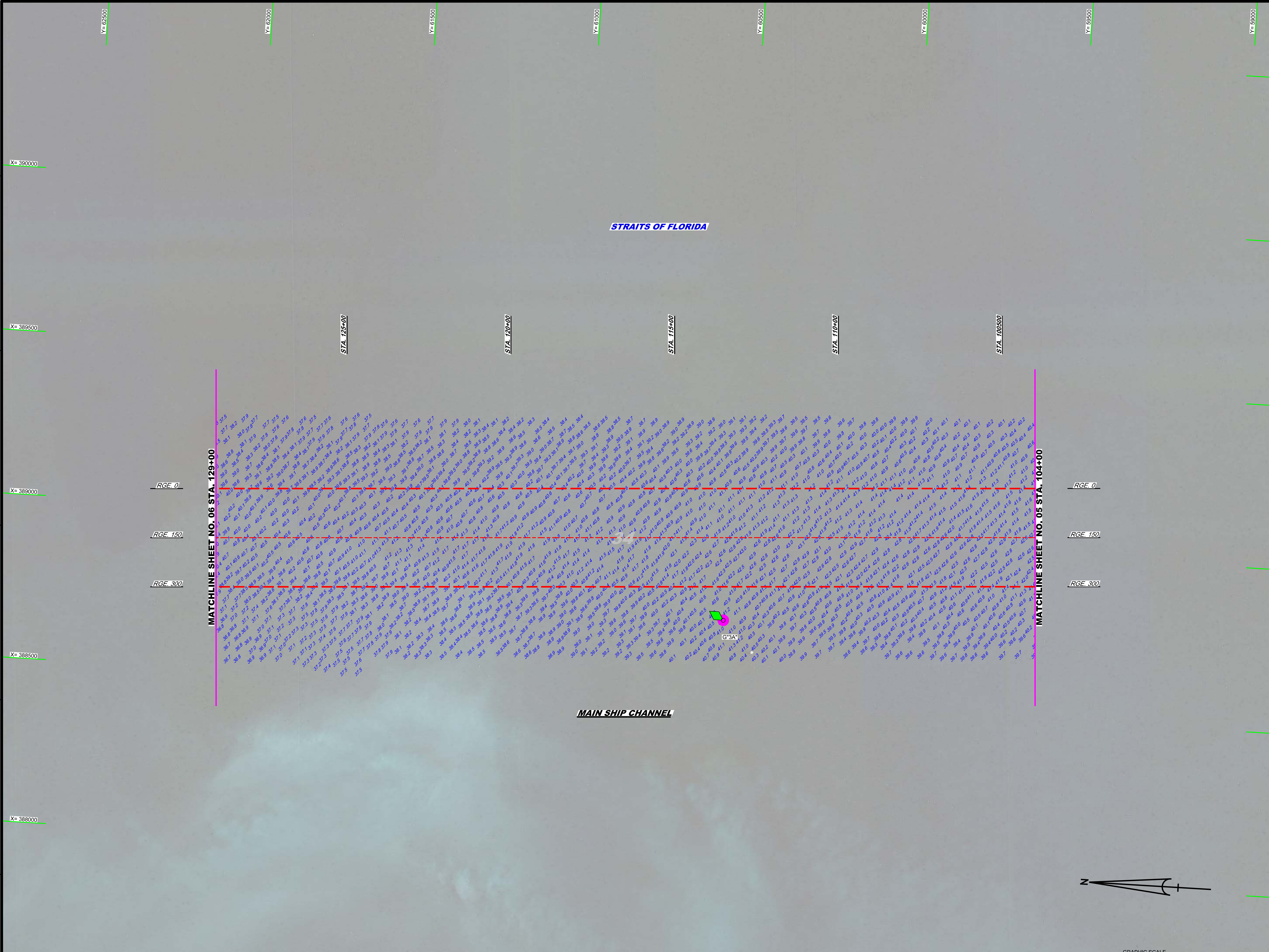
PLAN

Scale: AS SHOWN

Drawing no.

5 / 18

SHEET 05 OF 26



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"3A"	LT. BUOY-3A (06/21)	388,744	60,514	24°29'51.80"	81°48'15.22"

NOTES:
1. REFER TO SURVEY NO. 21-180.
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: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-NAV.DGN
21-180-V-SOUN_MSC.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-006.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21 12, 26, 30 & 34-FOOT PROJECT

STA. 104+00 THRU STA. 129+00 MAIN SHIP CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.

6 / 18

NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-SOUN_MSC.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-007.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

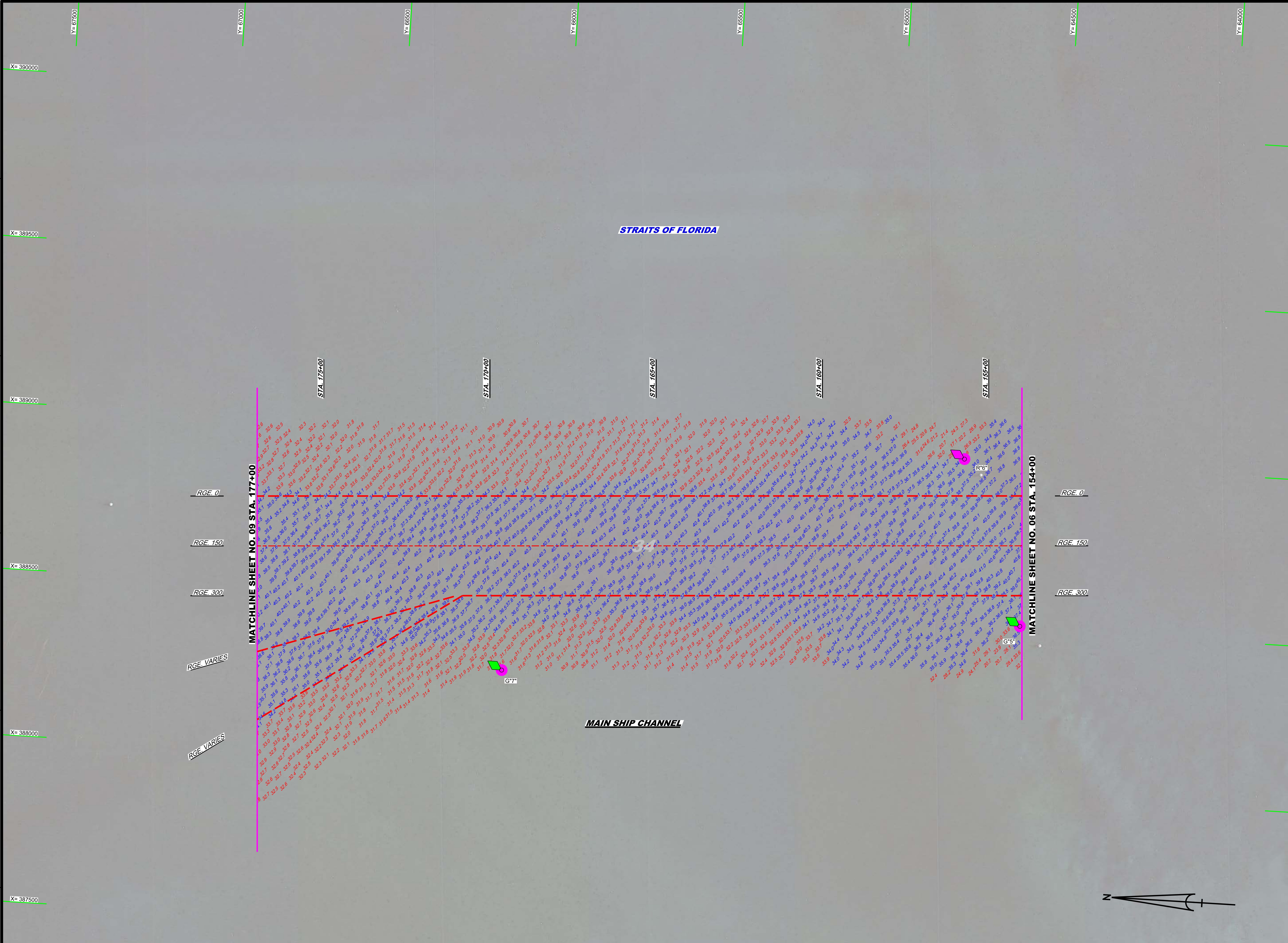
STA. 129+00 THRU STA. 154+00 MAIN SHIP CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.
7 / 18

SHEET 07 OF 26



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"5"	LT. BUOY-5 (06/21)	388,510	64,562	24°30'31.88"	81°48'18.01"
R"6"	LT. BUOY-6 (06/21)	389,002	64,758	24°30'33.86"	81°48'12.70"
G"7"	LT. BUOY-7 (06/21)	388,285	66,110	24°30'47.20"	81°48'20.55"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
File name: 21-180-VH-008.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

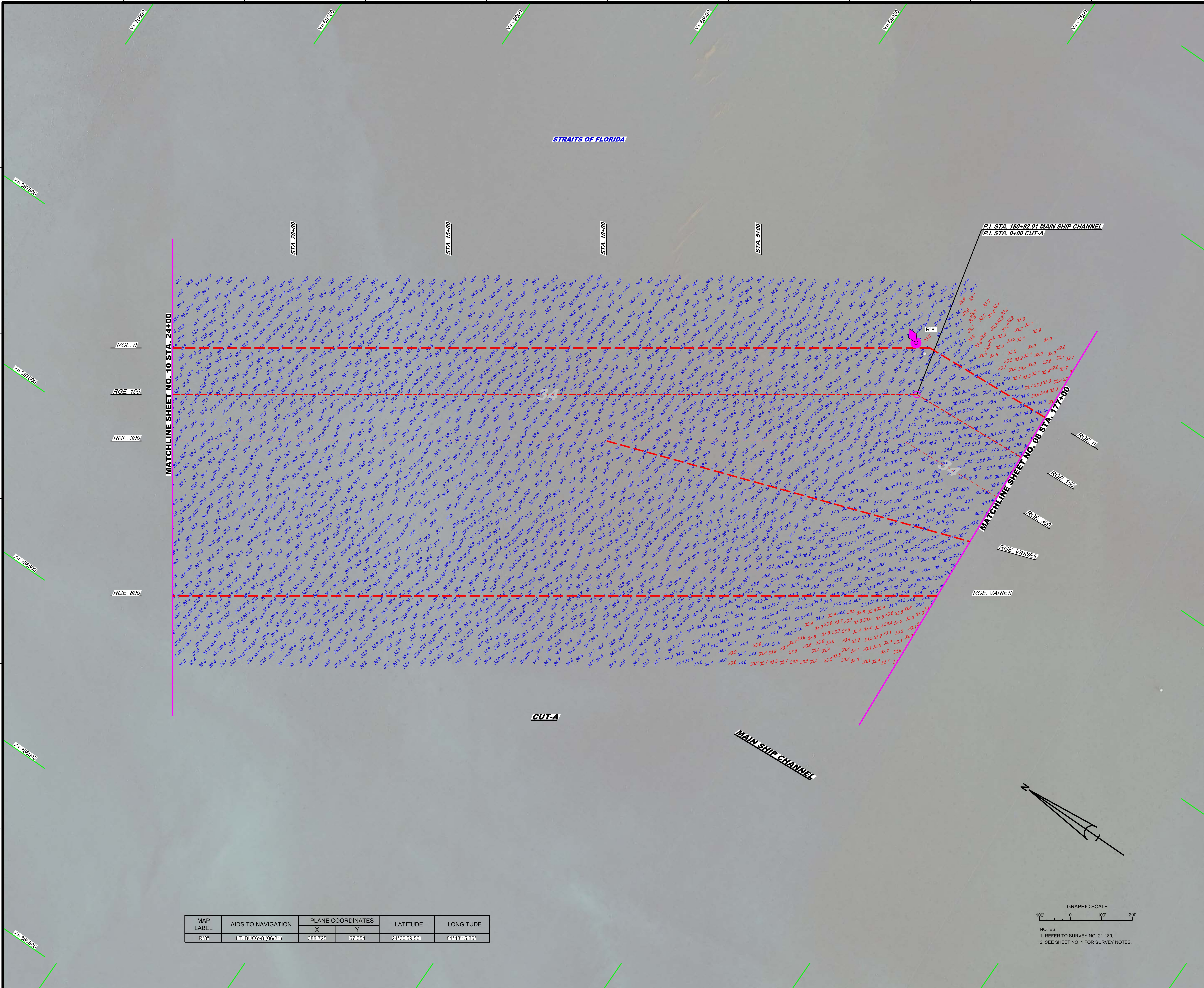
STA. 154+00 THRU STA. 177+00 MAIN SHIP CHANNEL

PLAN

Scale: AS SHOWN

Drawing no. **8 / 18**

SHEET 08 OF 26



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"8"	LT. BUOY-8 (06/21)	388,725	67,354	24°30'59.56"	81°48'15.86"

NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-NAV.DGN
21-180-V-SOUN_CTA.DGN
21-180-V-SOUN_MSC.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-009.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

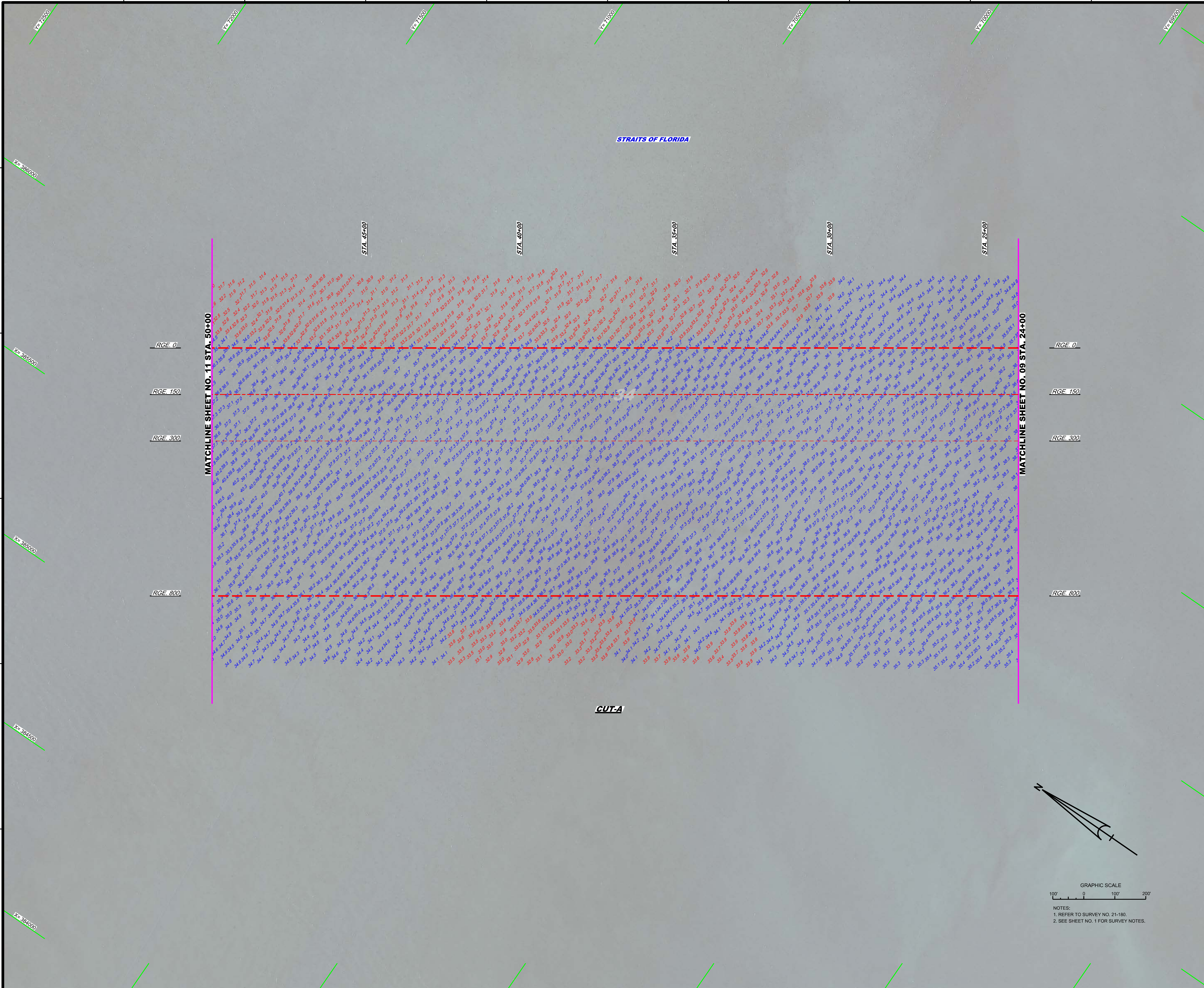
STA. 177+00 MAIN SHIP CHANNEL THRU STA. 24+00 CUT-A

PLAN

Scale: AS SHOWN

Drawing no.

9 / 18



NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-CON34.DGN
21-180-V-SOUN_CTA.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

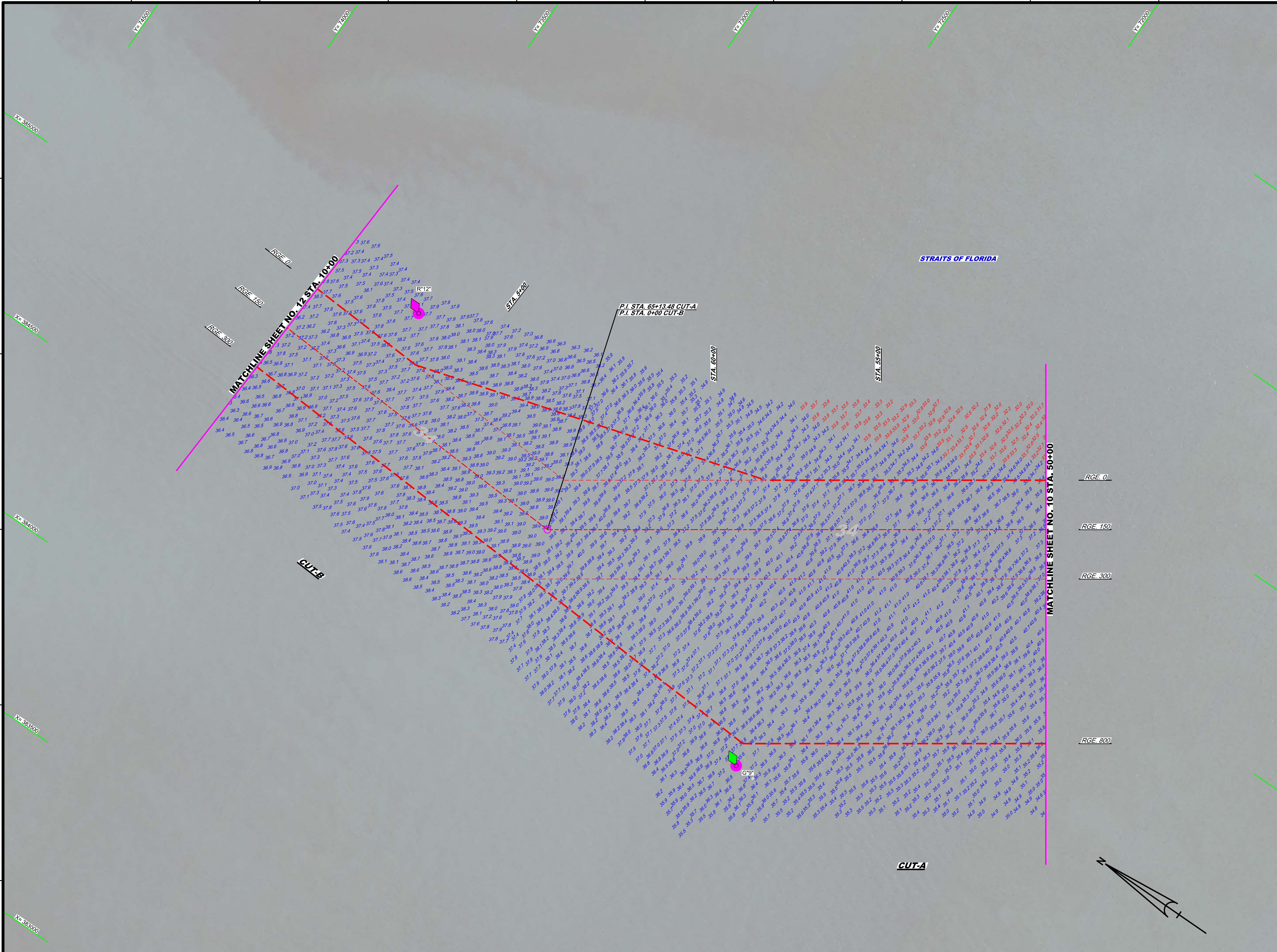
File name: 21-180-VH-010.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA
NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT
STA. 24+00 THRU STA. 50+00 CUT-A
PLAN

Scale: AS SHOWN

Drawing no.
10 / 18

SHEET 10 OF 26



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"9"	LT. BUOY-9 (06/21)	384,628	71,741	24°31'42.78"	81°49'00.50"
R"12"	LT. BUOY-12 (06/21)	385,212	73,315	24°31'58.40"	81°48'54.28"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-NAV.DGN
21-180-V-SOUN_CTB.DGN
21-180-V-SOUN_CTA.DGN
21-180-V-SOUN_WIDENER.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-011.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21 12, 26, 30 & 34-FOOT PROJECT

STA. 50+00 CUT-A THRU STA. 10+00 CUT-B

PLAN

Scale: AS SHOWN

Drawing no. 11 / 18

SHEET 11 OF 26

NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-CON34.DGN
21-180-V-SOUN_CTB.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-012.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21 12, 26, 30 & 34-FOOT PROJECT

STA. 10+00 THRU STA. 36+00 CUT-B

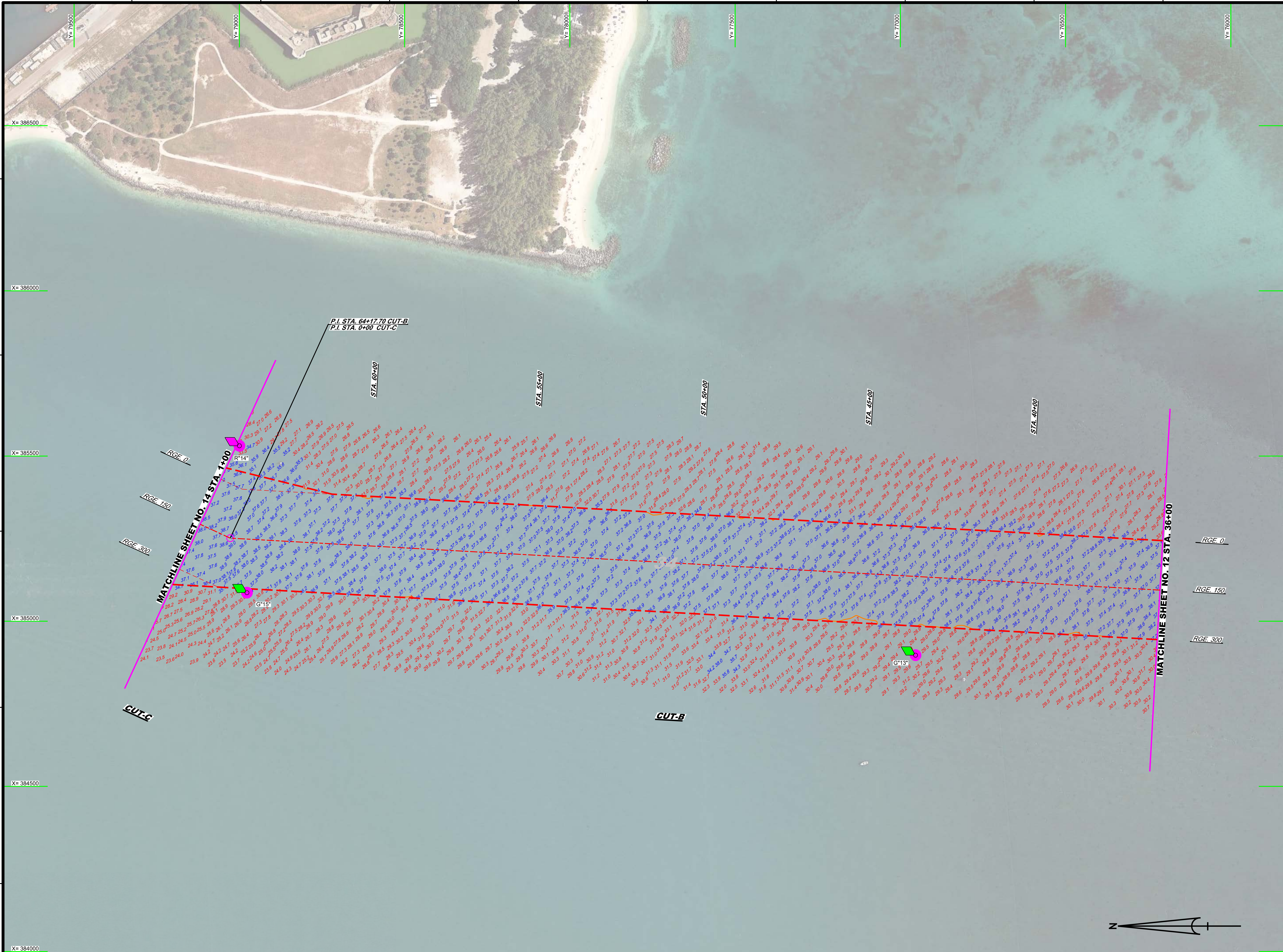
PLAN

Scale: AS SHOWN

Drawing no.

12 / 18

SHEET 12 OF 26



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"13"	LT. BUOY-13 (06/21)	384,897	76,954	24°32'34.43"	81°48'57.92"
R"14"	LT. BUOY-14 (06/21)	385,531	79,000	24°32'54.73"	81°48'51.19"
G"15"	LT. BUOY-15 (06/21)	385,086	78,977	24°32'54.48"	81°48'56.00"

N

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 21-180.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
21-180-V-NAV.DGN
21-180-V-CON34.DGN
21-180-V-SOUN_CTB.DGN
21-180-V-SOUN_CTC.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-013.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 36+00 CUT-B THRU STA. 1+00 CUT-C

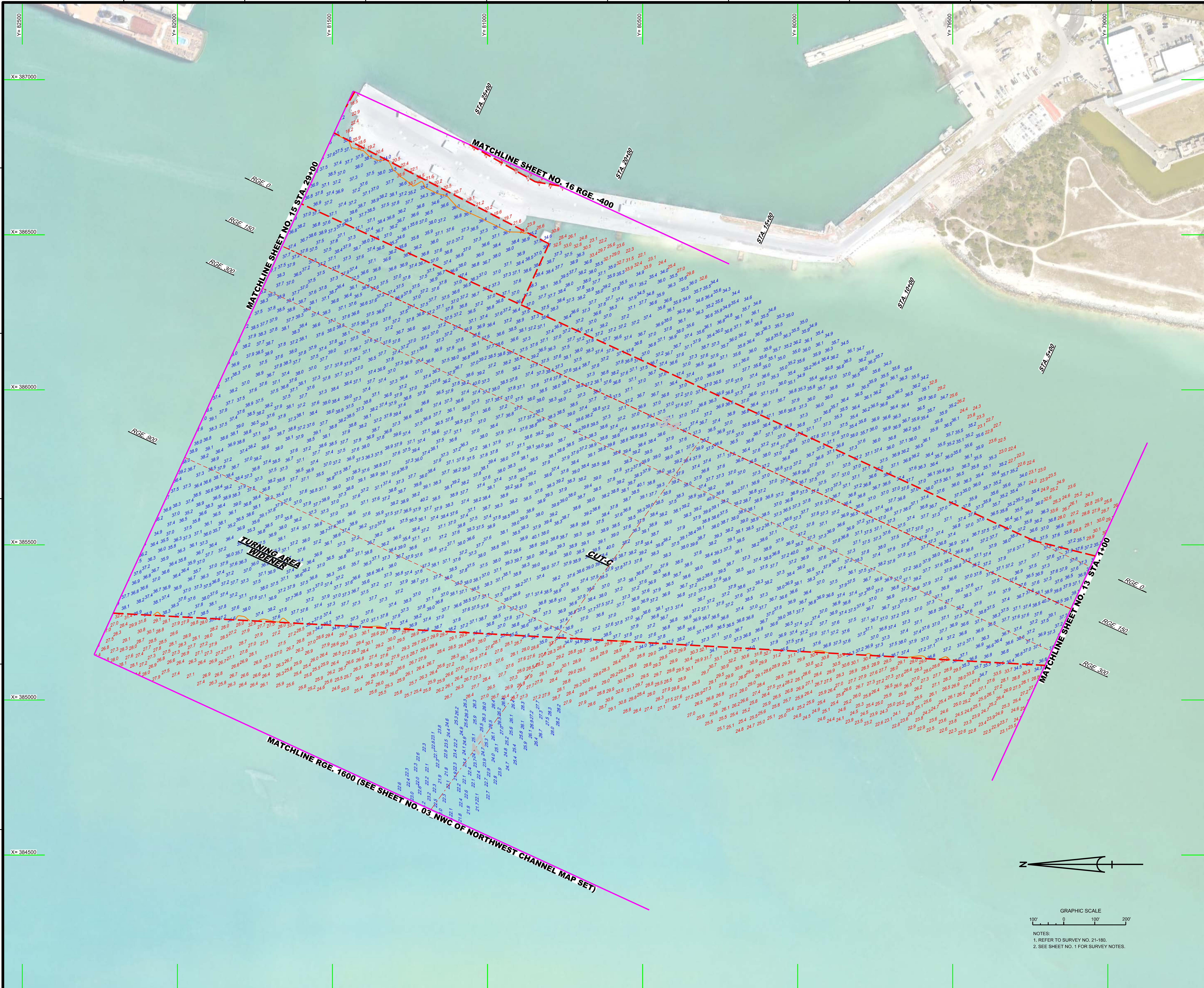
PLAN

Scale: AS SHOWN

Drawing no.

13 / 18

SHEET 13 OF 26



NOTES:
1. REFER TO SURVEY NO. 21-180.
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: WRM	Ckd by: GMR
DWN by: WRM	
Inv. No. W912EP-XX-X-XXXX	Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-CON34.DGN
21-180-V-SOUN_CTC.DGN
21-180-V-SOUN_NWC.DGN
21-180-V-SOUN_TH_HF.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-014.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 1+00 THRU STA. 29+00 CUT-C

PLAN

Scale: AS SHOWN

Drawing no.
14 / 18

SHEET 14 OF 26

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"17"	LT. BUOY-17 (06/21)	385,277	82,713	24°33'31.50"	81°48'54.18"
G"19"	LT. BUOY-19 (06/21)	386,073	82,705	24°33'31.46"	81°48'45.55"
G"21"	DBN-21 (06/21)	386,482	83,590	24°33'40.26"	81°48'41.18"
G"23"	LT. BUOY-23 (06/21)	387,048	83,236	24°33'36.78"	81°48'35.03"

NOTES:
1. REFER TO SURVEY NO. 21-180.
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: WRM
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
21-180-V-CON26.DGN
21-180-V-CON30.DGN
21-180-V-CON34.DGN
21-180-V-SOUN_CTC.DGN
21-180-V-SOUN_TH-HF.DGN
21-180-V-SOUN_KWB-1.DGN
KEY WEST HARBOR-C-NGMCCF.DGN
21-180-G-BS-BRDR.DGN
21-180-V-NAV.DGN

File name: 21-180-VH-015.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 29+00 THRU STA. 59+00 CUT-C

PLAN

Scale: AS SHOWN

Drawing no.

15 / 18

SHEET 15 OF 26

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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
21-180-V-CON34.DGN
21-180-V-SOUN_TH_HF.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-016.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

TRUMAN HARBOR

PLAN

Scale: AS SHOWN

Drawing no.

16 / 18

SHEET 16 OF 26

NOTES:
1. REFER TO SURVEY NO. 21-180.
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: WRM
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
21-180-V-CON34_TH-LF.DGN
21-180-V-SOUN_TH_LF.DGN
21-180-G-BS-BRDR.DGN

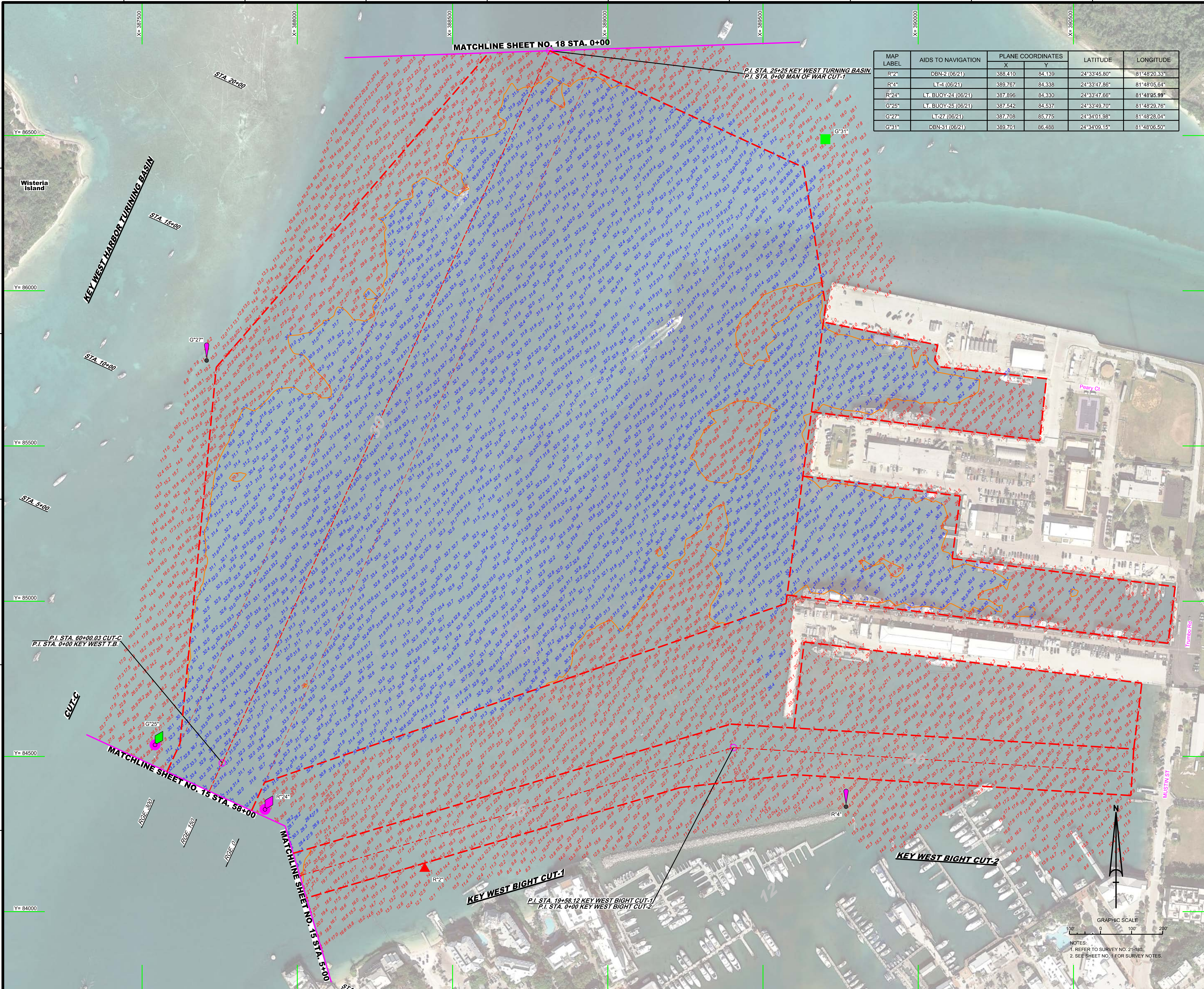
File name: 21-180-VH-016_LF.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA
NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT
TRUMAN HARBOR
PLAN

Scale: AS SHOWN

Drawing no.
16

SHEET 16 OF 26



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"2"	DBN-2 (06/21)	388,410	84,139	24°33'45.80"	81°48'20.33"
R"4"	LT-4 (06/21)	389,767	84,338	24°33'47.86"	81°48'05.64"
R"24"	LT. BUOY-24 (06/21)	387,896	84,330	24°33'47.66"	81°48'05.99"
G"25"	LT. BUOY-25 (06/21)	387,542	84,537	24°33'49.70"	81°48'29.76"
G"27"	LT-27 (06/21)	387,708	85,775	24°34'01.98"	81°48'28.04"
G"31"	DBN-31 (06/21)	389,701	86,488	24°34'09.15"	81°48'06.50"

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: WRM
Drawn by: WRM
Ckd by: GMR
Date: JUN 2021

Reference files:
21-180-V-CON30.DGN
21-180-V-SOUN_CTC.DGN
21-180-V-SOUN_KWB-1.DGN
21-180-V-SOUN_KWB-2.DGN
21-180-V-SOUN_TB.DGN
21-180-V-SOUN_USCG
KEY WEST HARBOR-C-NG
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-017.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

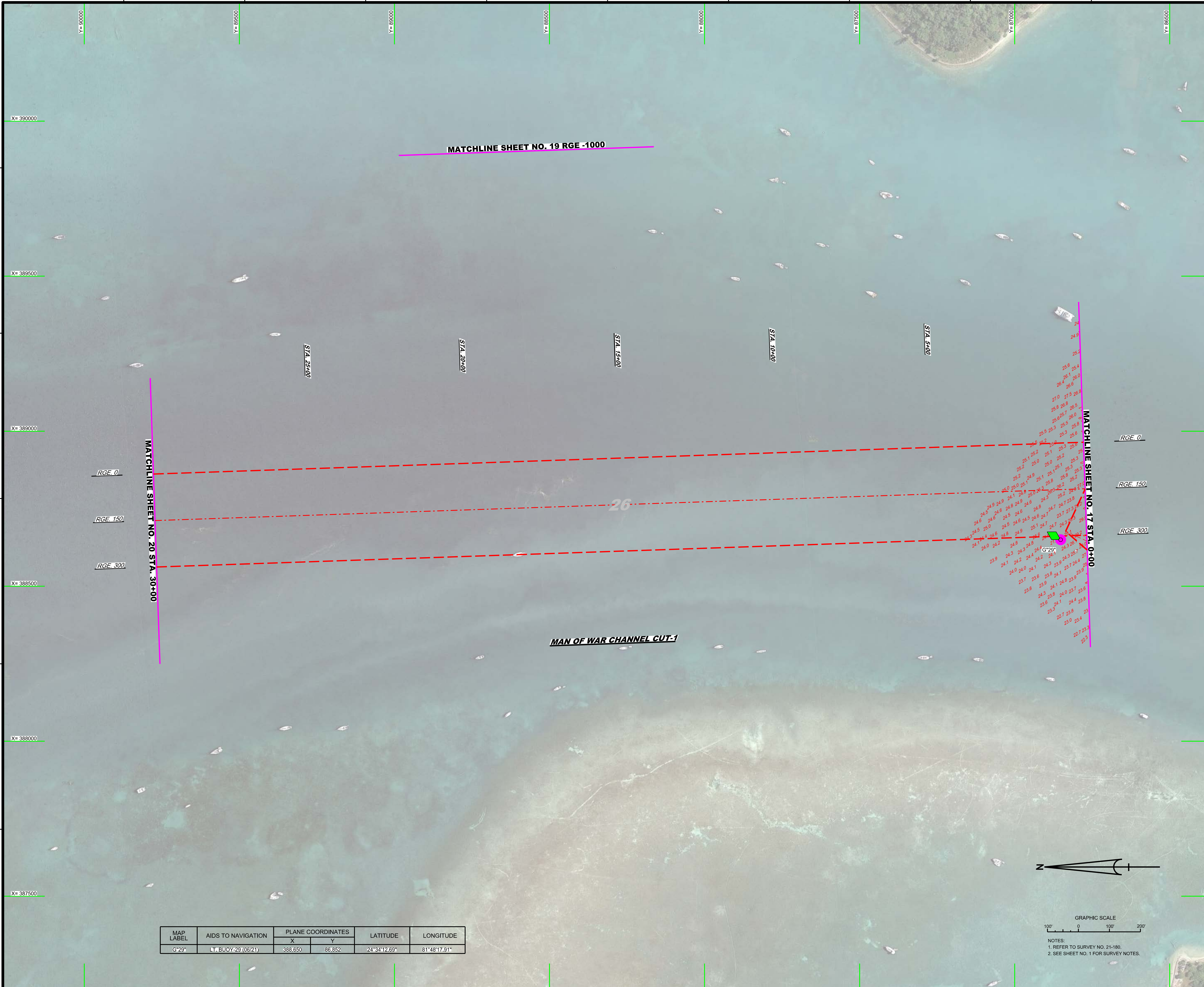
NAVY PROJECT EXAM SURVEY FY21
12, 26, 30 & 34-FOOT PROJECT

STA. 59+00 CUT-C THRU STA. 25+25 KEY WEST HBR T.B., STA. 5+00 KEY WEST BIGHT-1 THRU STA. 3+09.33 KEY WEST BIGHT TURNING BASIN

PLAN

Scale: AS SHOWN

Drawing no. 17 / 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"29"	LT. BUOY-29 (06/21)	388,650	86,852	24°34'12.69"	81°48'17.91"

NOTES:
1. REFER TO SURVEY NO. 21-180.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2021

Reference files:
21-180-V-NAV.DGN
21-180-V-SOUN_TB.DGN
KEY WEST HARBOR-C-NGMCCF-SOW-3D.DGN
21-180-G-BS-BRDR.DGN

File name: 21-180-VH-018.DGN

KEY WEST HARBOR
MONROE COUNTY, FLORIDA

NAVY PROJECT EXAM SURVEY FY21 12, 26, 30 & 34-FOOT PROJECT

STA. 0+00 THRU STA. 30+00 MAN OF WAR CHANNEL CUT-1

PLAN

Scale: AS SHOWN

Drawing no. 18 / 18

SHEET 18 OF 26