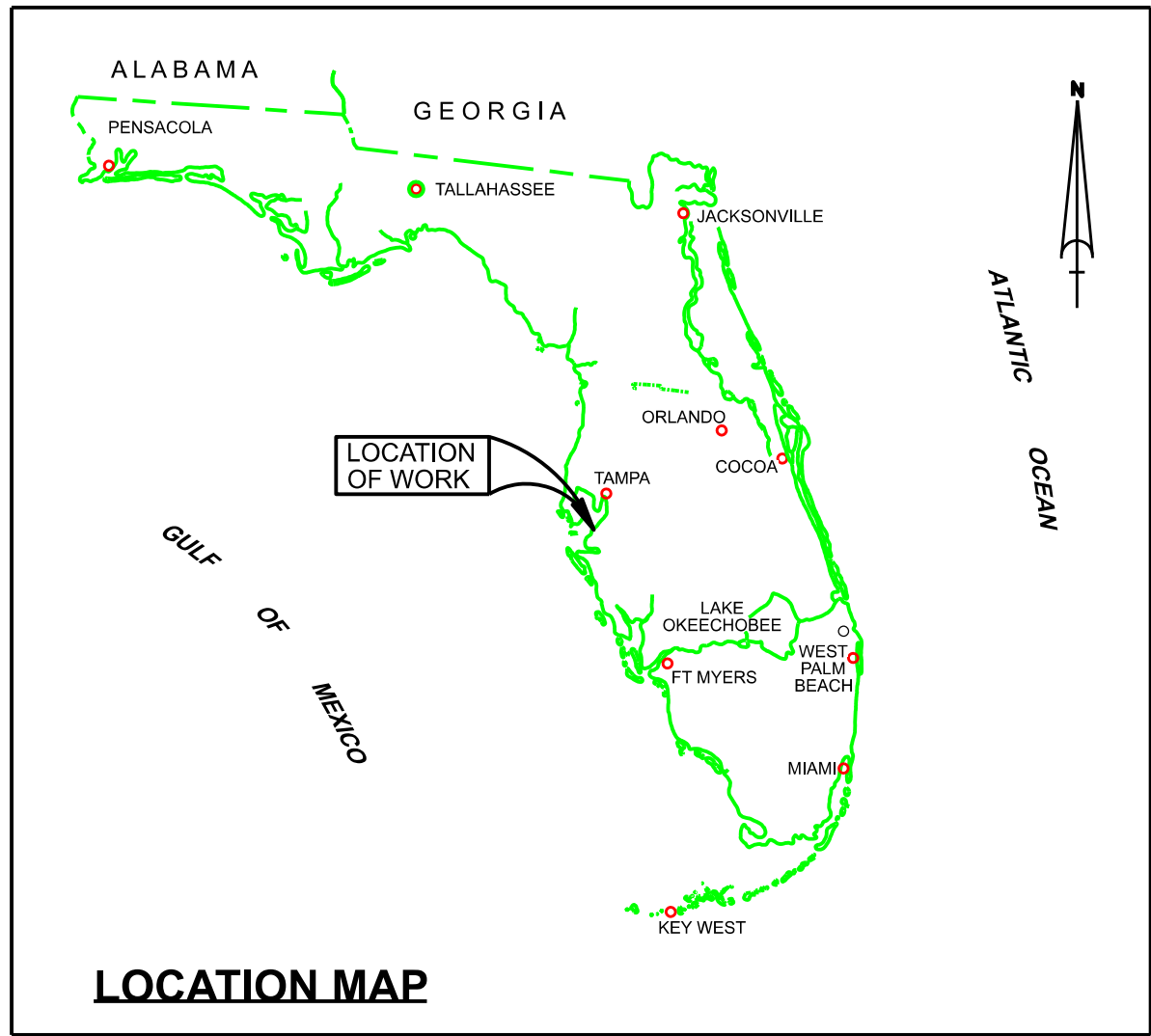
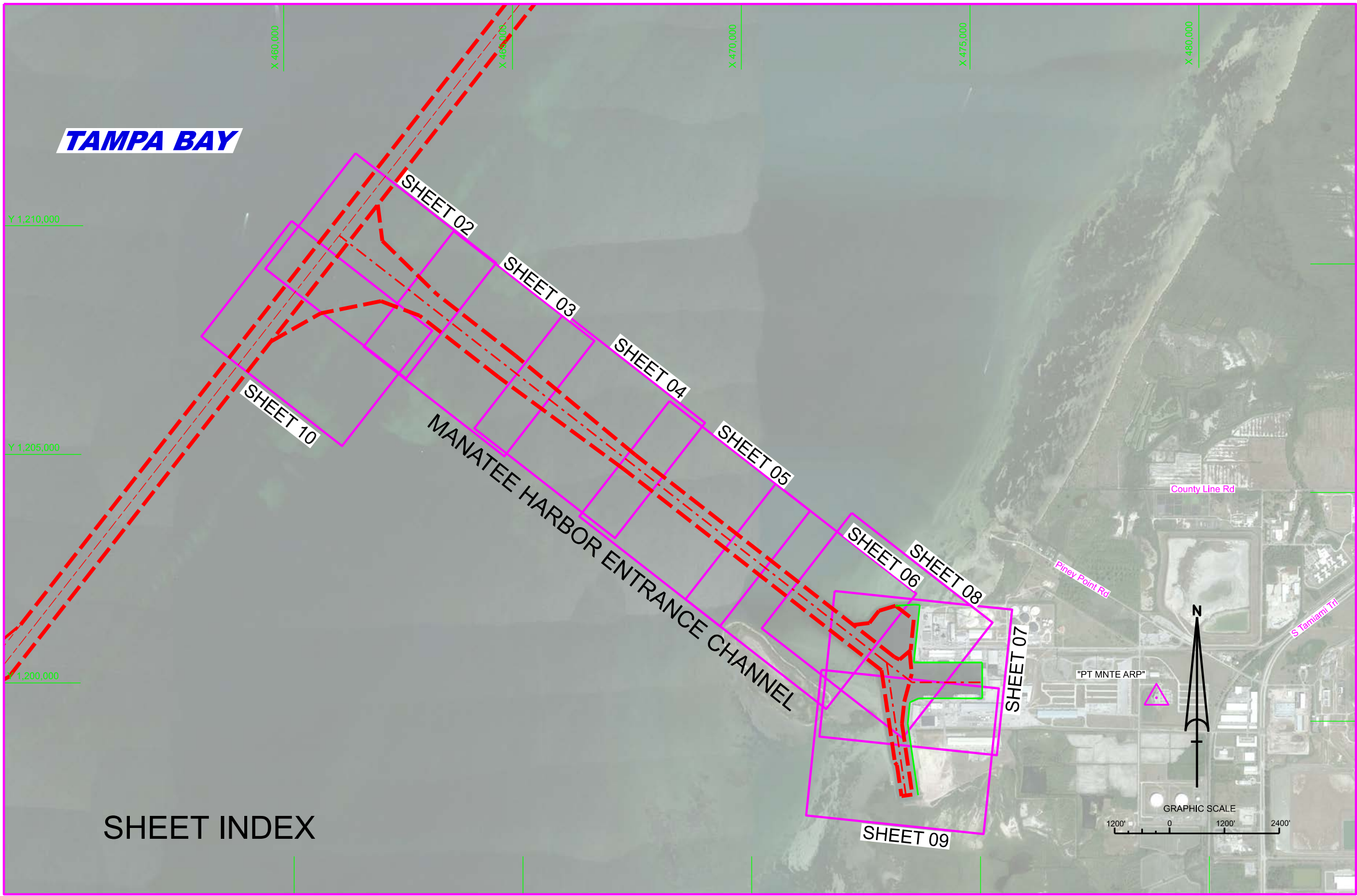




MANATEE HARBOR (TAMPA HARBOR ZONE 10) MANATEE COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY24 40-FOOT PROJECT



- SURVEY NOTES**
- REFER TO SURVEY NO. 24-177.
 - ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
 - PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).
 - DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW). TIDAL EPOCH 1985-2001 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 PSECIPIED BELOW:

NOAA TIDAL STATION 872-6384, PORT MANATEE, TAMPA BAY, FL
 - TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING THE KTD FILE "SPC-FL-WEST-2010-12-07.KTD".
 - ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
 - THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

REFERENCE BASE LOCATED AT "PT MNTE ARP" (OPUS PID: BBJM69)

A MEASURE DOWN POINT WAS SET IN THE EASTERN BULKHEAD OF MANATEE HARBOR FROM NOS BM "872 6384 C" (PID: AG7340)
 - VERTICAL MEASUREMENTS WERE MADE USING A TELEDYNE RESON T20 MULTI-BEAM SYSTEM AND A ROSS MODEL 835C DUAL-FREQUENCY SMART SOUNDER SINGLE-BEAM SYSTEM FOR SINGLE-BEAM CHECK LINES. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
- | VESSEL | DATE OF SURVEY | CUT |
|----------|----------------|----------------|
| SV CORAL | 19 JUL 2024 | MANATEE HARBOR |
| SV CORAL | 23 JUL 2024 | MANATEE HARBOR |
| SV CORAL | 30 JUL 2024 | MANATEE HARBOR |
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
 - 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.
 - 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 DAY BEACON
	RED DAY BEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

Drawn by	Checked by	Reviewed by	Zone	Scale

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

Drawn by	Checked by	Reviewed by	Zone	Scale

MANATEE HARBOR
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY24
40-FOOT PROJECT

INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 10

F
E
D
C
B
A

10 9 8 7 6 5 4 3 2 1



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

Sheet No.	Zone	Scale	Author	Checked	Date
24-177-HARBOR-001	N	AS SHOWN	MANATEE HARBOR		
24-177-HARBOR-002	A	AS SHOWN	MANATEE HARBOR		
24-177-HARBOR-003	B	AS SHOWN	MANATEE HARBOR		
24-177-HARBOR-004	C	AS SHOWN	MANATEE HARBOR		
24-177-HARBOR-005	D	AS SHOWN	MANATEE HARBOR		
24-177-HARBOR-006	E	AS SHOWN	MANATEE HARBOR		
24-177-HARBOR-007	F	AS SHOWN	MANATEE HARBOR		

24-177-HARBOR-001

MANATEE HARBOR

MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY24

40-FOOT PROJECT

STA. 150+00 THRU STA. 173+79 ENTRANCE CHANNEL

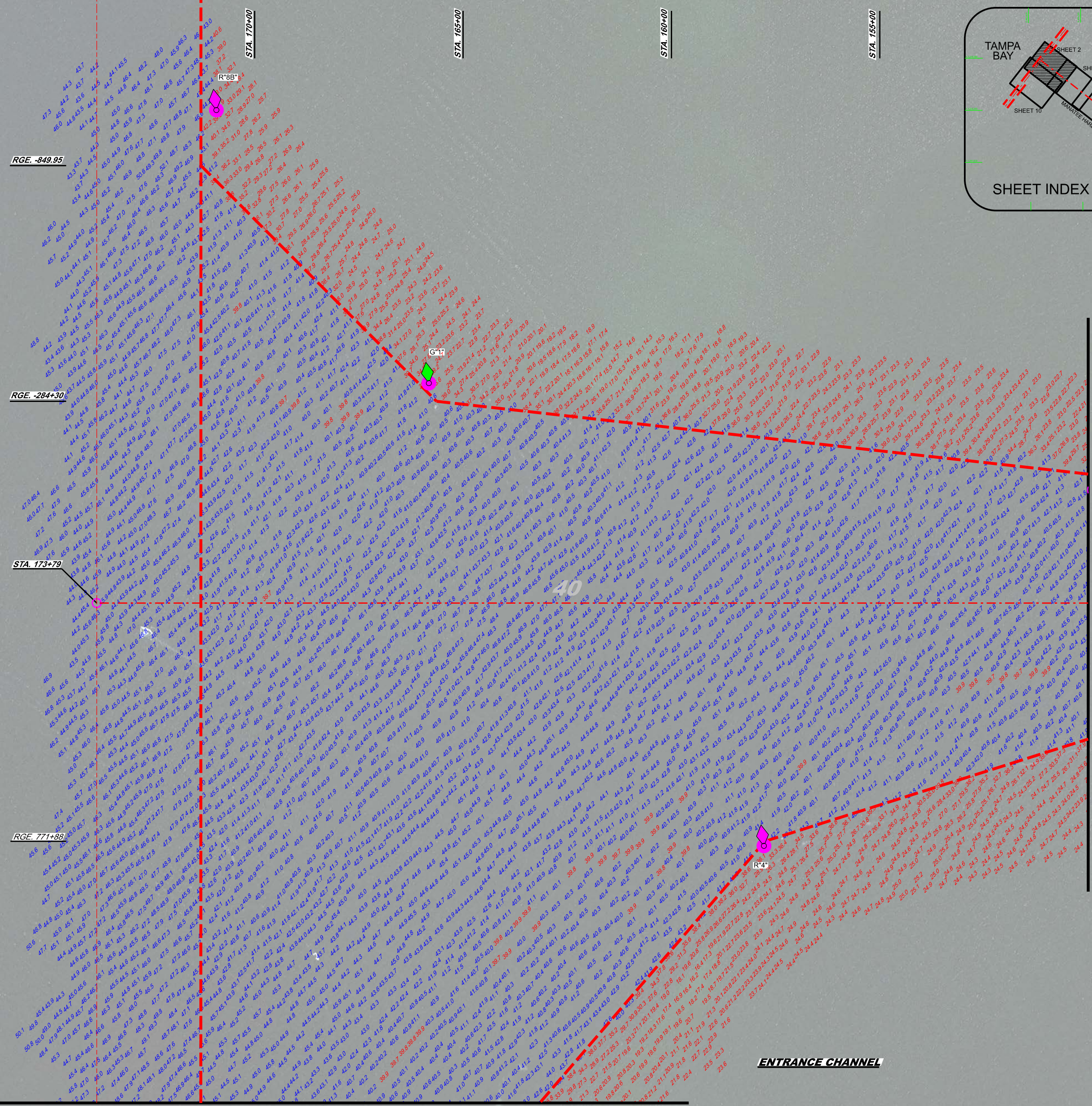
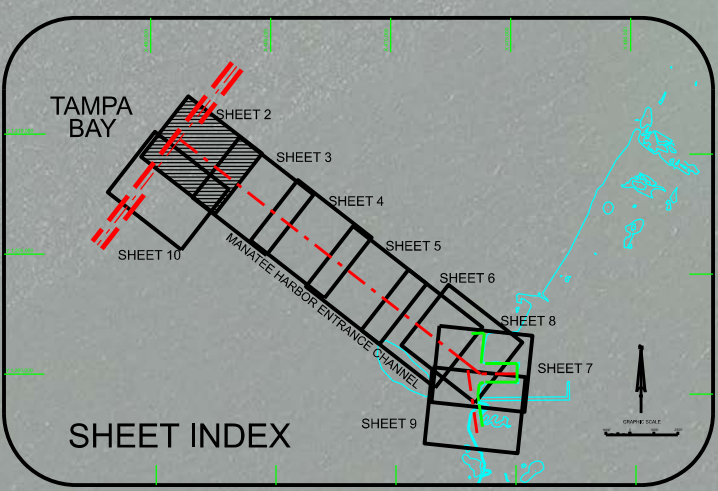
PLAN

Scale: AS SHOWN

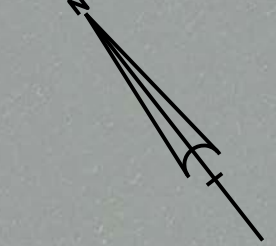
Drawing no.

2

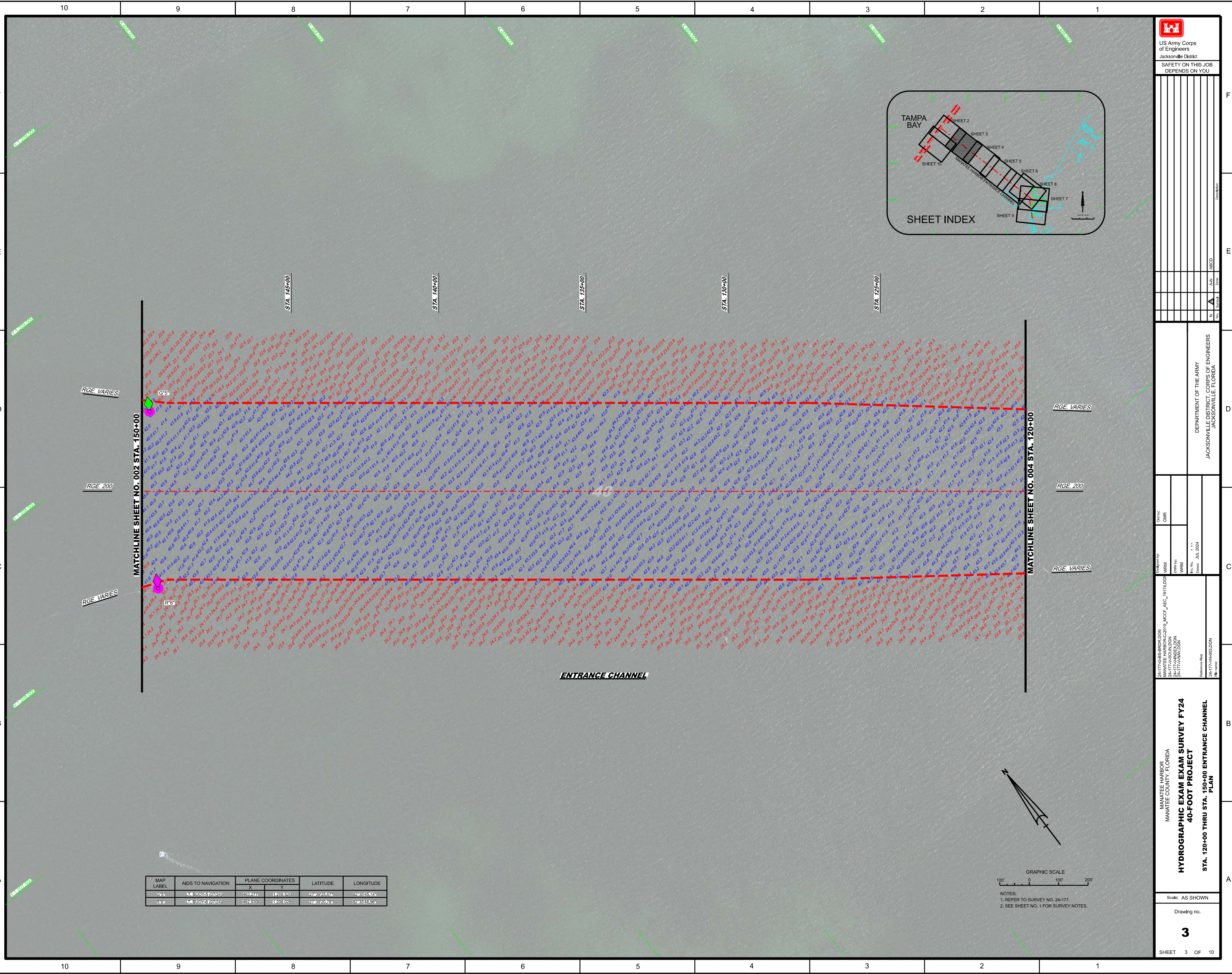
SHEET 2 OF 10

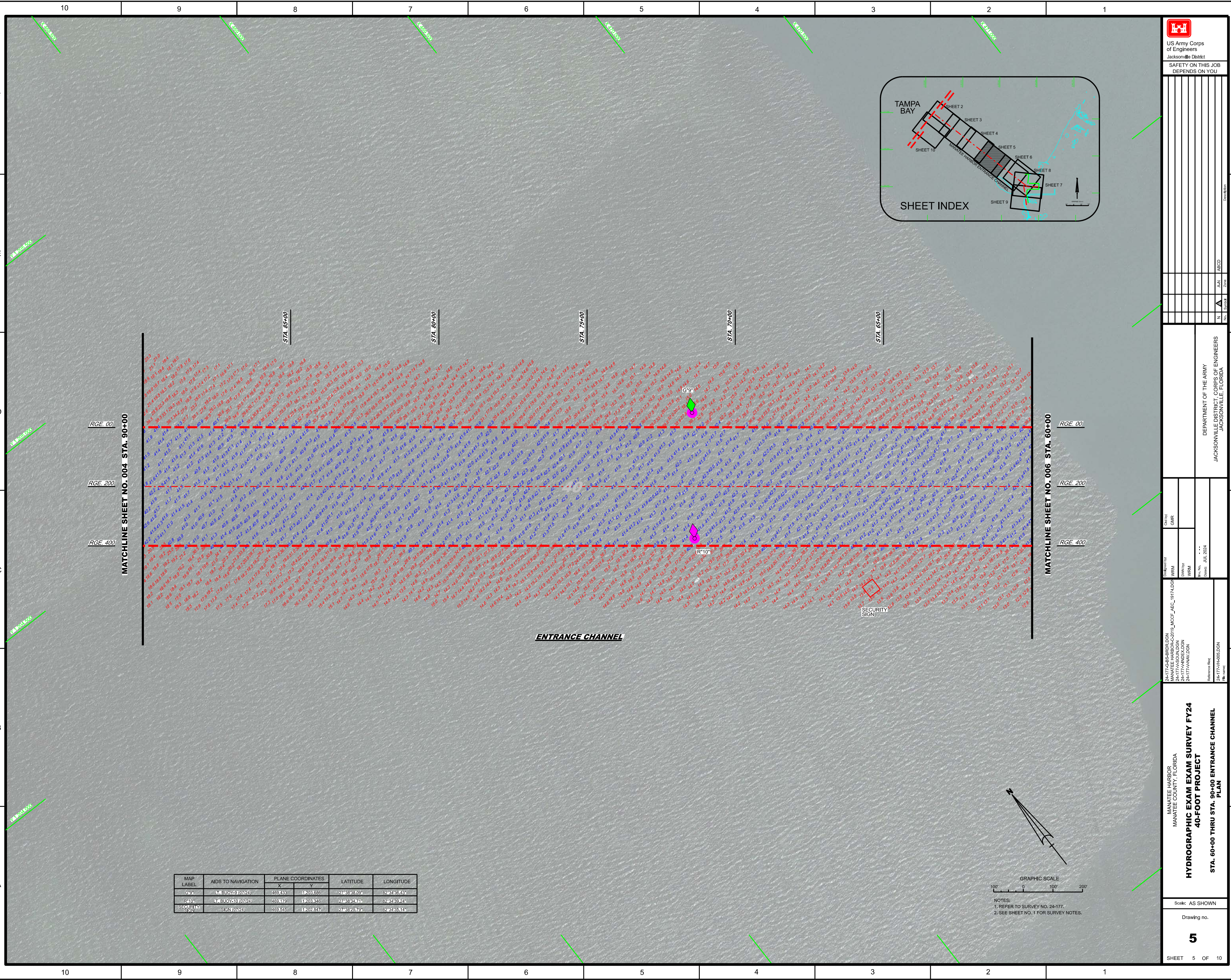


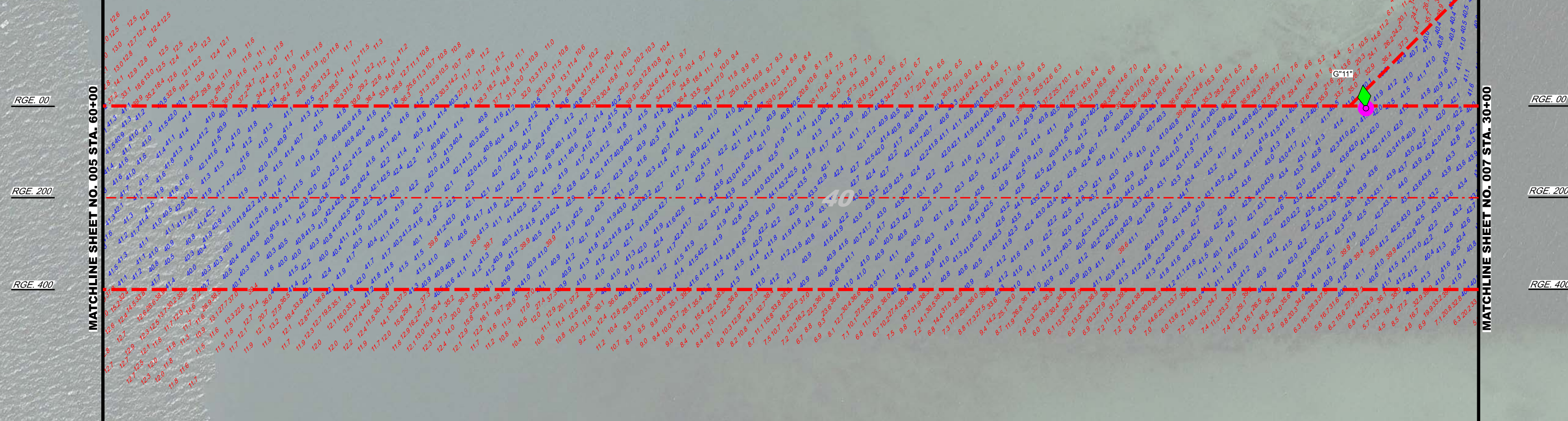
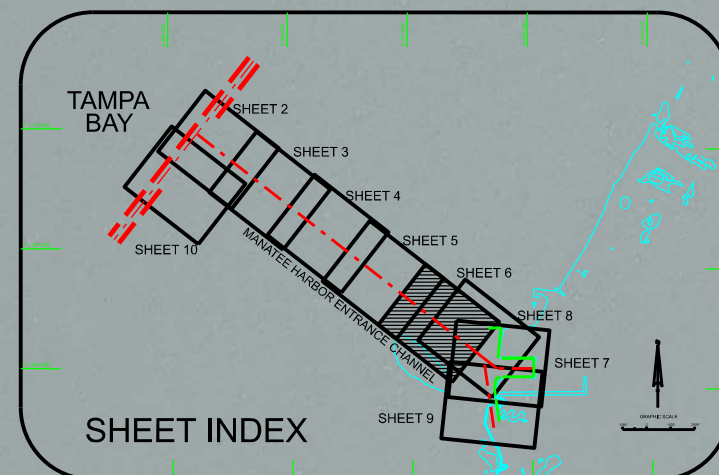
MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES	LATITUDE	LONGITUDE
CH	16 BUOY (07/24)	462.467 1209.741	27°39'37.45"	82°35'59.55"
R4	16 BUOY (07/24)	462.418 1208.841	27°39'33.84"	82°35'58.02"
R88	16 BUOY (07/24)	462.186 1210.542	27°39'45.64"	82°35'55.67"



NOTES:
1. REFER TO SURVEY NO. 24-177.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.







MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*11*	LT BUOY-11 (07/24)	472 475	1 201 242	27°38'14.03"	82°34'02.48"

NOTES:
1. REFER TO SURVEY NO. 24-177.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

[illegible][illegible]

MANATEE HARBOR
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM EXAM SURVEY FY24

40-FOOT PROJECT

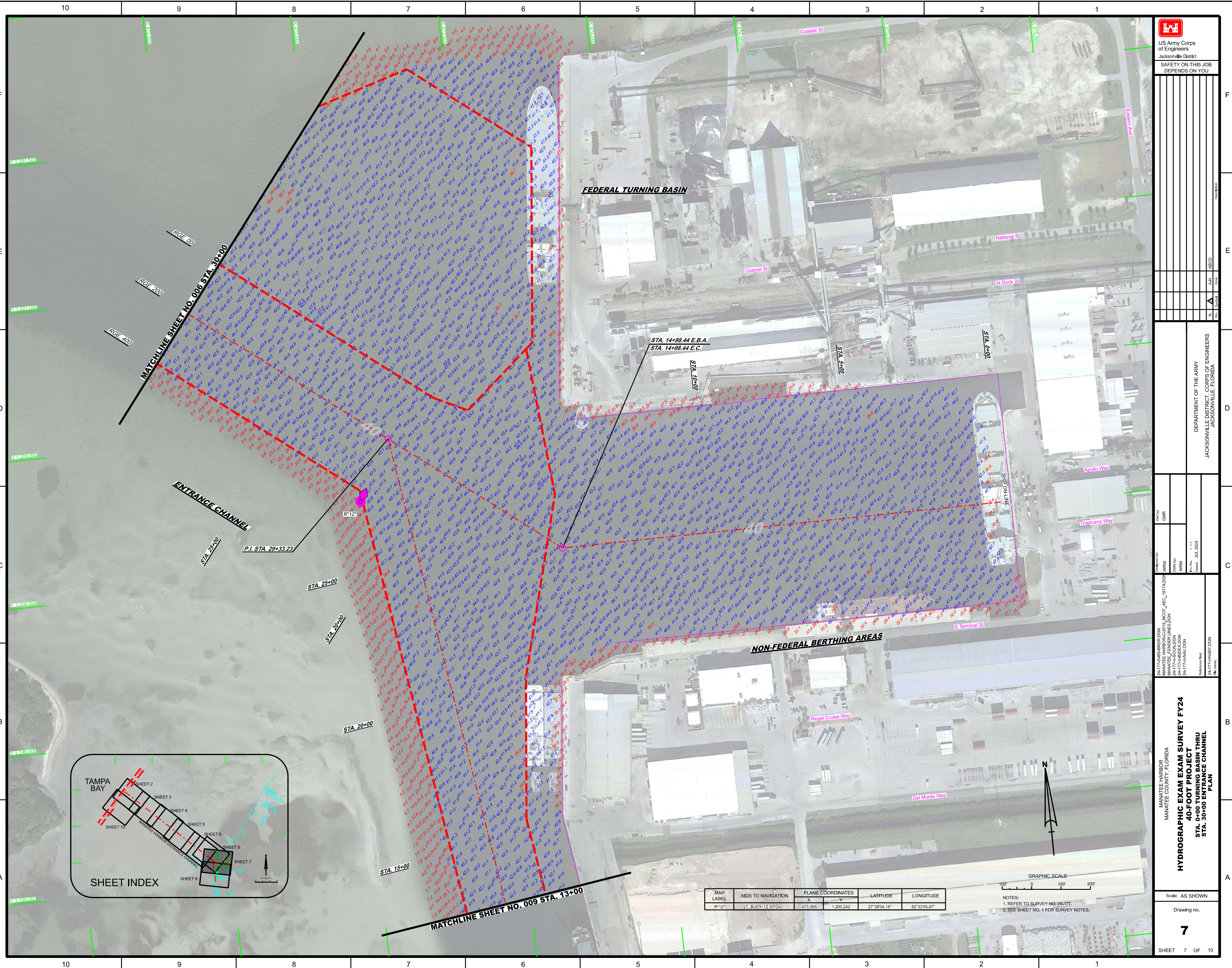
STA. 30+00 THRU STA. 60+00 ENTRANCE CHANNEL
PLAN

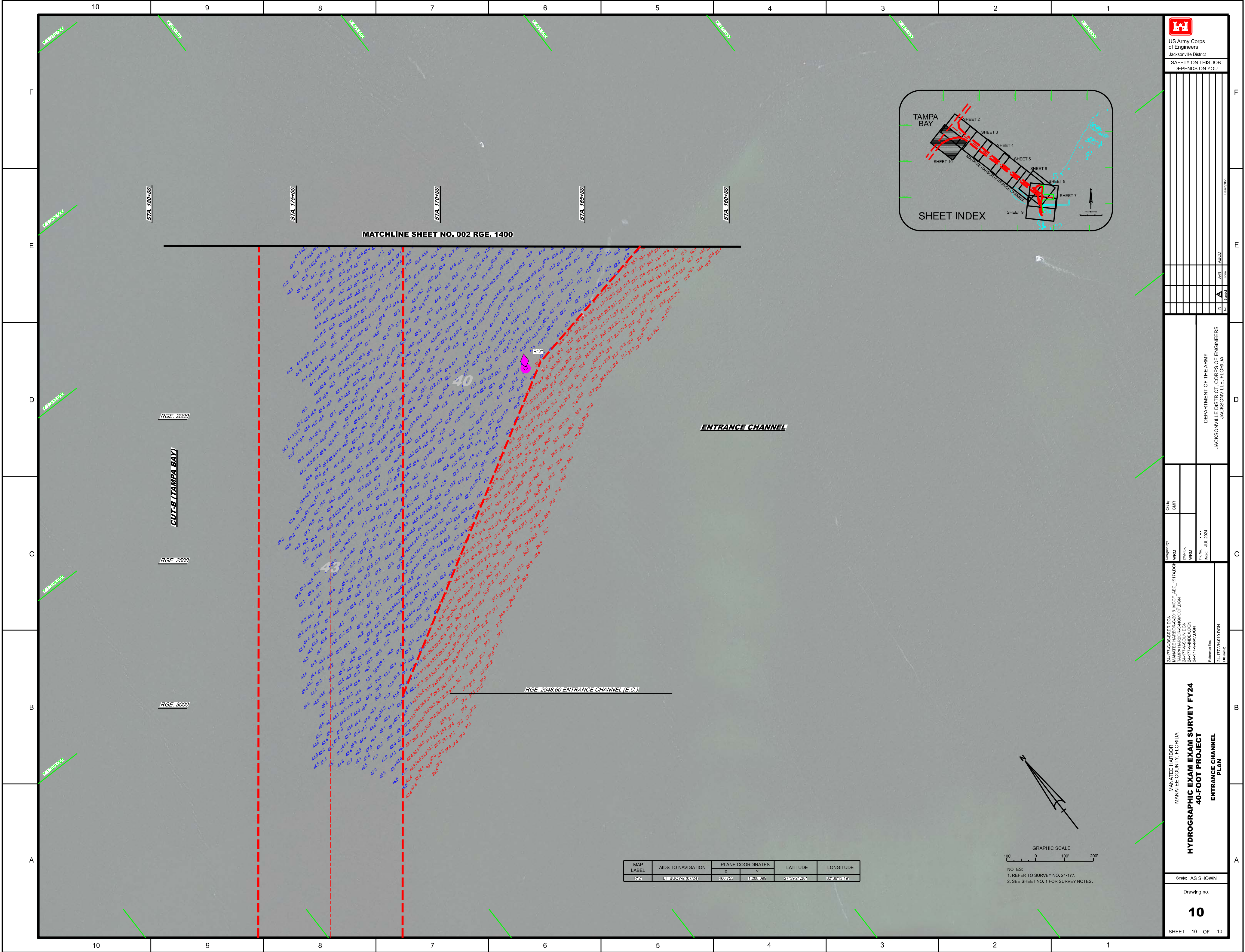
Scale: AS SHOWN

Drawing no.

6

SHEET 6 OF 10





US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

Description	
Zone	AS SHOWN
Sheet	10
Zone	AS SHOWN
Sheet	10

24-177-GS-ERD.DGN
MANATEE HARBOR-20170101_AEC_19174.DGN
24-177-A-SOUND.DGN
24-177-A-HAND.DGN

24-177-A-HAND.DGN
24-177-A-HAND.DGN

24-177-A-HAND.DGN
24-177-A-HAND.DGN

MANATEE HARBOR
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY24

40-FOOT PROJECT

ENTRANCE CHANNEL

PLAN

Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 10

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R24	11 BUOY (210724)	460763	1208092	27°39'21.38"	82°33'13.19"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 24-177.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.