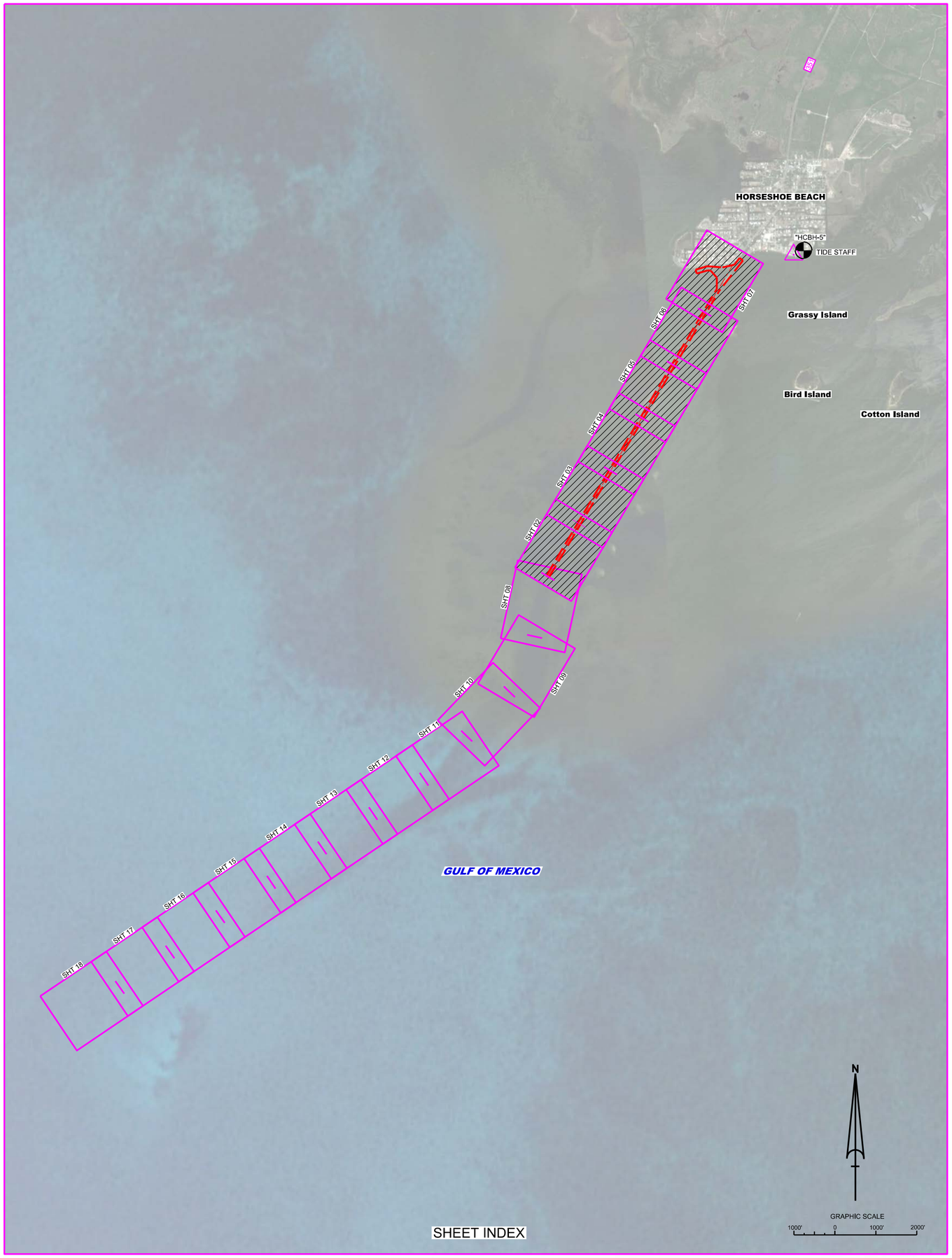
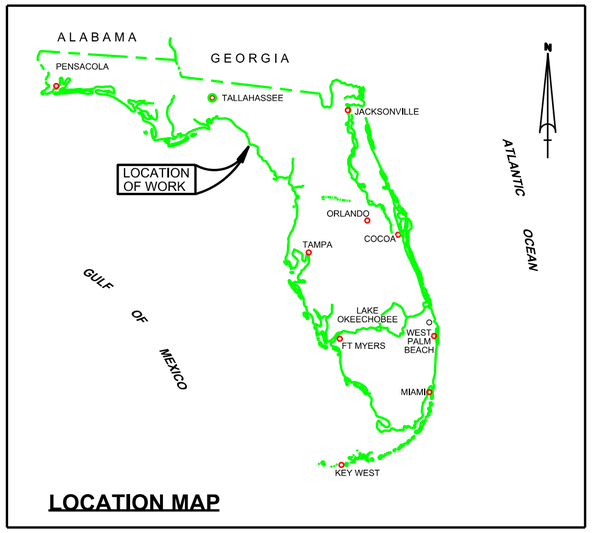




HORSESHOE COVE
DIXIE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 20-204.
2. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND A HYPACK KINEMATIC TIDAL DATUM MODEL NAMED: SPC-FL-NORTH_20161026.KTD
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. PLANE COORDINATES ARE BASED ON THE LAMBERT CONFORMAL CONIC PROJECTION FOR THE NORTH ZONE OF FLORIDA (0903) AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
5. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
6. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW) TIDAL DATUM, 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 BENCH MARKS ASSOCIATED WITH THE TIDE GAUGE SITE SPECIFIED BELOW:

   NOAA TIDAL STATION 872-7648, HORSESHOE POINT, FL
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "HCBH-5" (OPUS PID: BBFJ80)

   TIDE STAFF LOCATED ON WOODEN DOCK SET FROM "HCBH-5"
8. VERTICAL MEASUREMENTS WERE MADE USING ROSS MODEL 835C SMART SOUNDER WITH A DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-36	19-20 MAY 2020	ENTRANCE CHANNEL, 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
C	CAN BUOY
N	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: VIRM
DWN by: VIRM
CHK by: CMR
Rev. No.
Date: MAY 2020

XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
20-204-H-INDEX.DGN
HSHCECHL-NAD83(2007)-X-ft.DGN
20-204-2-FS-SHDR.DGN
Reference files:
20-204-VH-SH01.DGN
File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

INDEX, LOCATION AND VICINITY

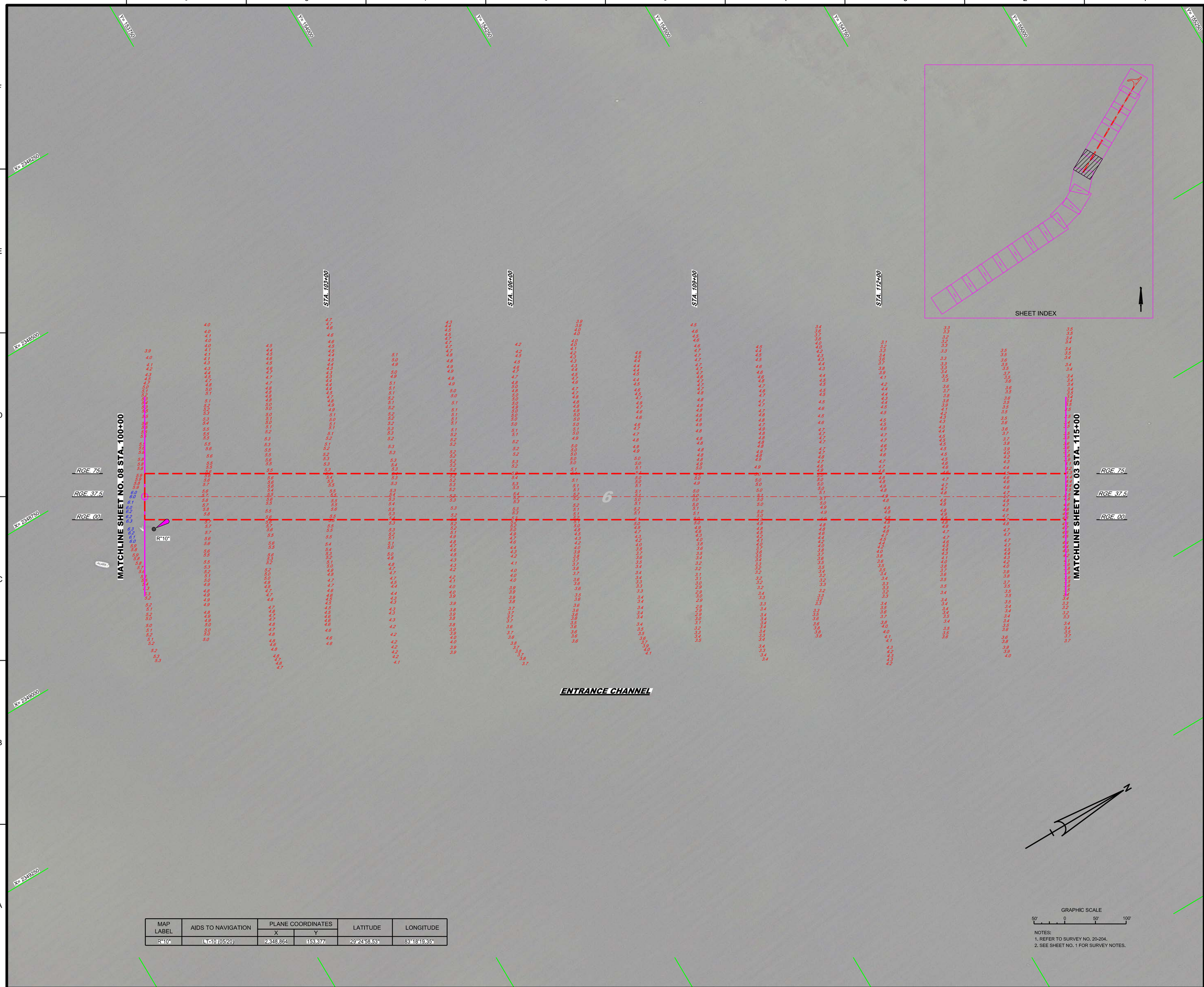
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"10"	LT-10 (05/20)	2,348,864	153,377	29°24'58.53"	83°18'19.35"

NOTES:
1. REFER TO SURVEY NO. 20-204.
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

Drawn by: CMR
Designed by: VIRM
DWN by: VIRM
CKD by:
Rev. No.
Date: MAY 2020

Reference files:
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
20-204-V-SOUNDINGS.DGN
HISHOECHL-NAD83(2007)-V8.DGN
20-204-C-BS-BNDR.DGN
20-204-V-H-SHOZ.DGN

File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

STA. 100+00 THRU STA. 115+00 ENTRANCE CHANNEL

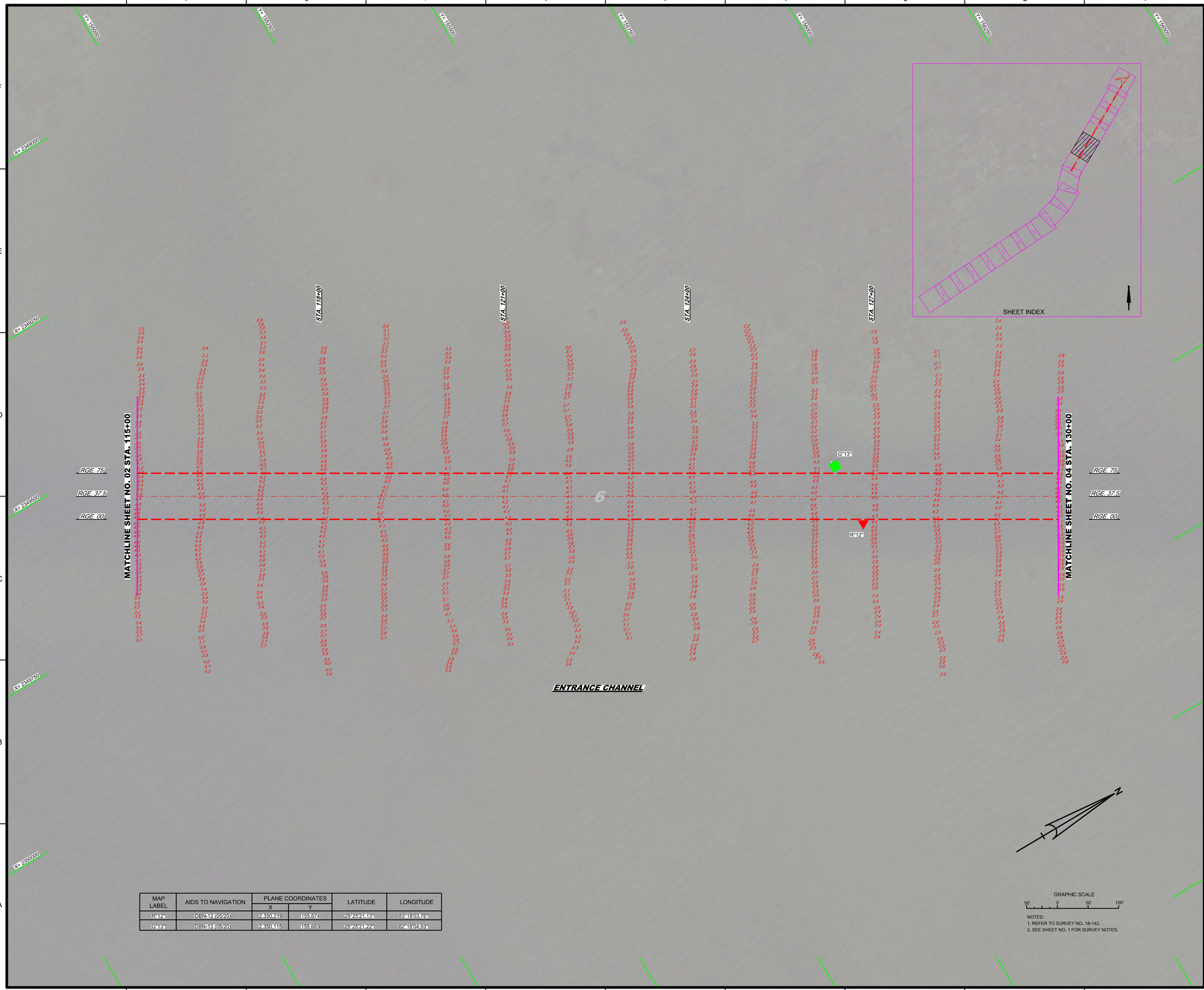
PLAN

Scale: AS SHOWN

Drawing no.

2 / 7

SHEET 02 OF 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12"	DBN-12 (05/20)	2,350,219	155,674	29°25'21.13"	83°18'03.76"
G"13"	DBN-13 (05/20)	2,350,115	155,683	29°25'21.22"	82°18'04.93"

NOTES:
1. REFER TO SURVEY NO. 18-142.
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: MAY 2020

LYYXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
20-204-V-SOUL_E-C.DGN
HISHORECHL-NAD83(2007)-V8.DGN
20-204-C-ES-BNDR.DGN
Reference files:
20-204-V-H-SHO3.DGN
File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

STA. 115+00 THRU STA. 130+00 ENTRANCE CHANNEL

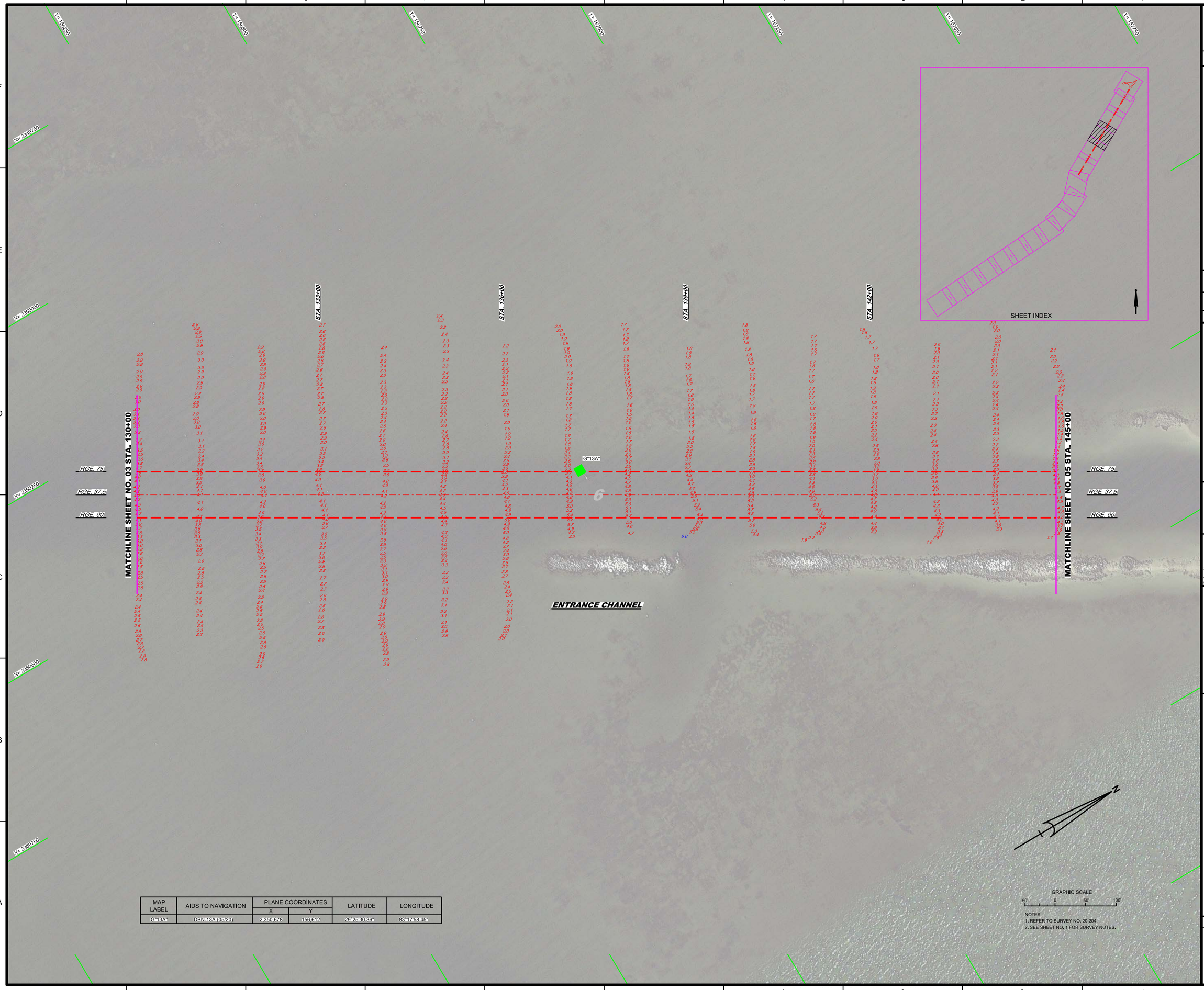
PLAN

Scale: AS SHOWN

Drawing no.

3 / 7

SHEET 03 OF 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"13A"	DBN-13A (05/20)	2,350,678	156,612	29°25'30.36"	83°17'58.45"

NOTES:
1. REFER TO SURVEY NO. 20-204.
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: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No.
Date: MAY 2020

Reference files:
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
20-204-V-SOUL_EC.DGN
HSHOECHL-NAD83(2007)-V8.DGN
20-204-C-ES-SHDR.DGN
20-204-V-HS-SH04.DGN
File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

STA. 130+00 THRU STA. 145+00 ENTRANCE CHANNEL

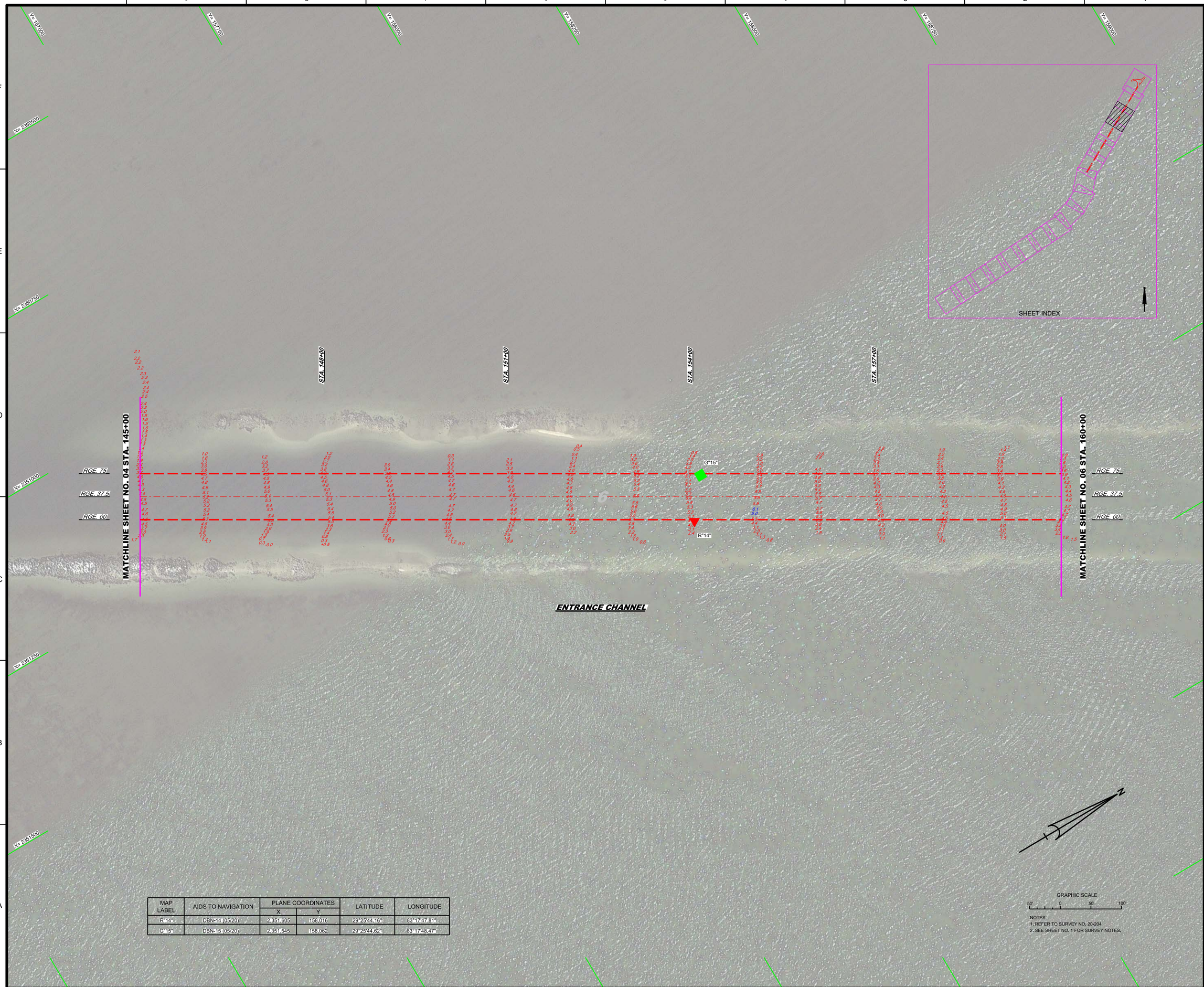
PLAN

Scale: AS SHOWN

Drawing no.

4 / 7

SHEET 04 OF 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"14"	DBN-14 (05/20)	2,351,605	158,016	29°25'44.16"	83°17'47.81"
G"15"	DBN-15 (05/20)	2,351,545	158,062	29°25'44.62"	83°17'48.47"

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: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No.
Date: MAY 2020

X:\XXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
20-204-V-SOUNDINGS.DGN
HSHOECHL-NAD83(2007)-V8.DGN
20-204-C-ES-BNDRL.DGN
Reference files:
20-204-V-H-SHOS.DGN
File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

STA. 145+00 THRU STA. 160+00 ENTRANCE CHANNEL

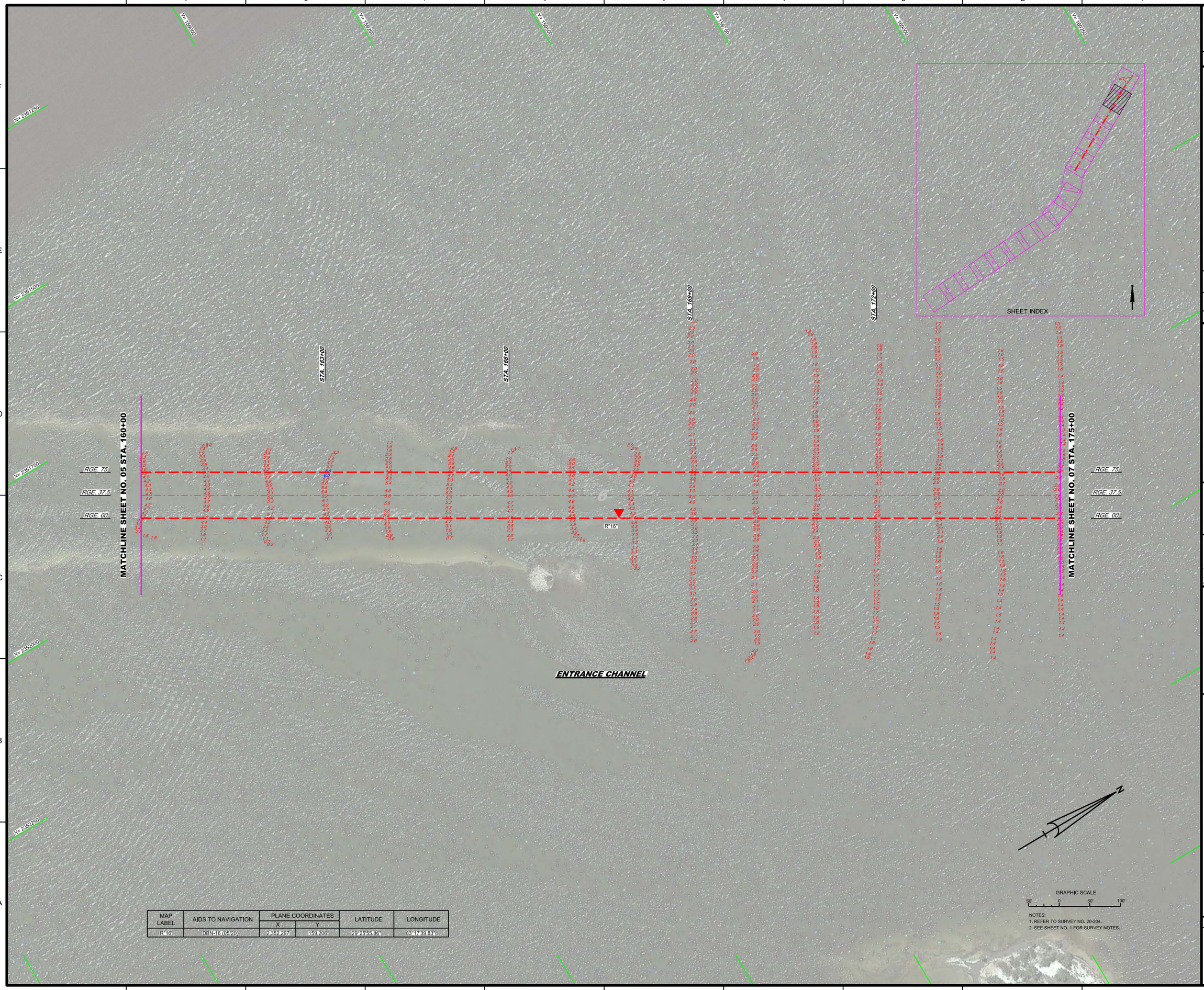
PLAN

Scale: AS SHOWN

Drawing no.

5 / 7

SHEET 05 OF 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"16"	DBN-16 (05/20)	2,352.297	159.206	29°25'55.86"	83°17'39.83"

GRAPHIC SCALE

50' 0 50' 100'

NOTES:
1. REFER TO SURVEY NO. 20-204.
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: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No.
Date: MAY 2020

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
20-204-VSUM_E-C.DGN
HSHOECHL-NAD83(2007)-V8.DGN
20-204-C-ES-BNDR.DGN
Reference files:
20-204-VHS-R09.DGN
File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

STA. 145+00 THRU STA. 169+00 ENTRANCE CHANNEL

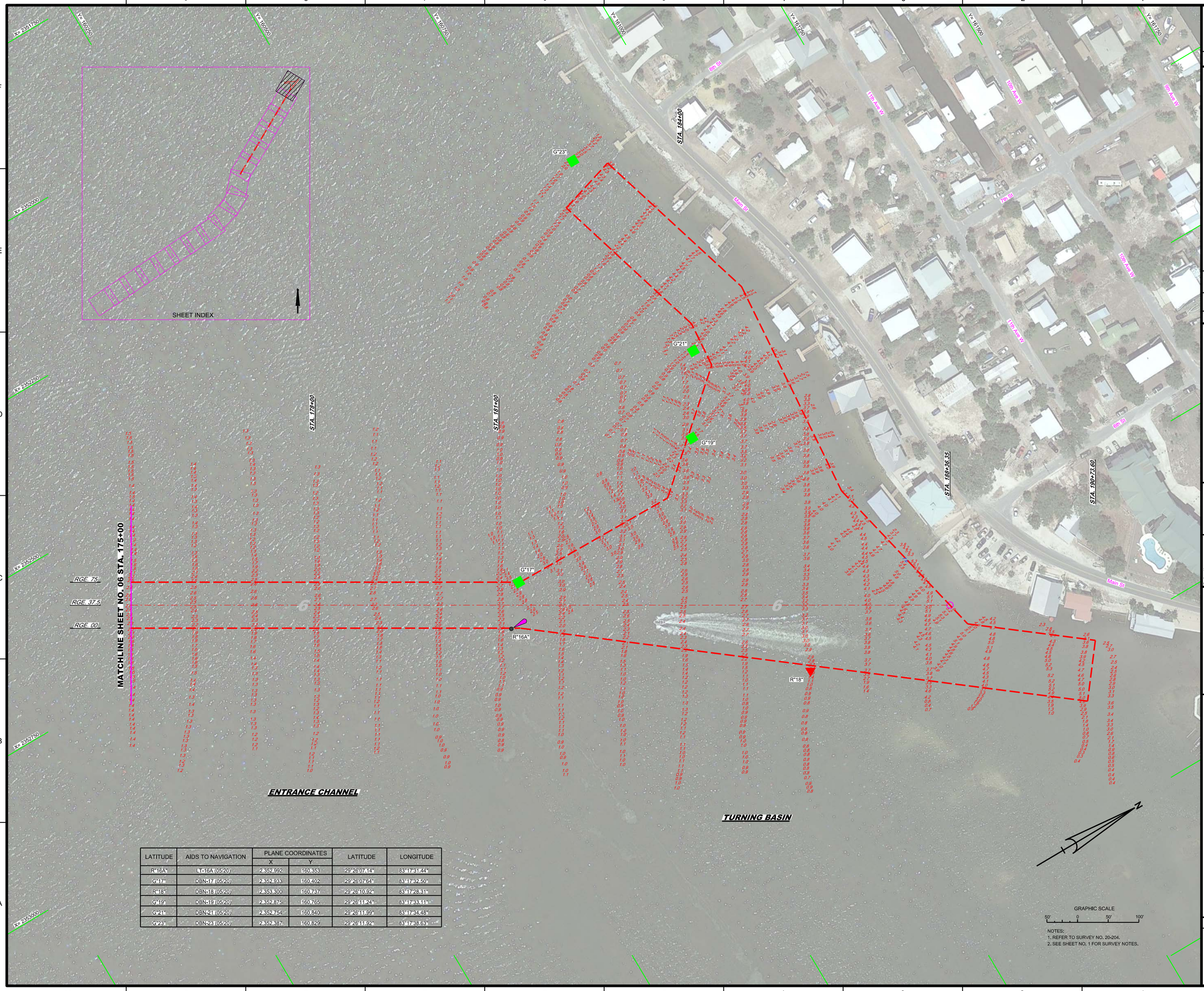
PLAN

Scale: AS SHOWN

Drawing no.

6 / 7

SHEET 06 OF 18



LATITUDE	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"16A"	LT-16A (05/20)	2,352,992	160,353	29°26'07.14"	83°17'31.44"
G"17"	DBN-17 (05/20)	2,352,933	160,402	29°26'07.64"	83°17'32.50"
R"18"	DBN-18 (05/20)	2,353,300	160,737	29°26'10.92"	83°17'28.31"
G"19"	DBN-19 (05/20)	2,352,875	160,765	29°26'11.24"	83°17'33.11"
G"21"	DBN-21 (05/20)	2,352,754	160,840	29°26'11.99"	83°17'34.48"
G"23"	DBN-23 (05/20)	2,352,387	160,829	29°26'11.92"	83°17'38.63"

GRAPHIC SCALE

50' 0 50' 100'

NOTES:
1. REFER TO SURVEY NO. 20-204.
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
Drawn by: WRM
Checked by: GMR
Proj. No.
Date: MAY 2020

X:\XXXXXXXX-XXXXX-DGN\
XXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXX-XXXXXXXX.DGN
20-204A-MAY.DGN
20-204A-SOUTH_TIP.DGN
20-204A-SOUTH_TIP-PERP.DGN
H:\HORECHI-NAD83\2007-V8i.DGN
20-204-HS-BRDR.DGN
Reference files:
20-204-HH-SHT07.DGN
File name:

HORSESHOE COVE
DIXIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY20
6-FOOT PROJECT

STA. 175+00 THRU STA. 188+36.35 TURNING BASIN

PLAN

Scale: AS SHOWN

Drawing no.

7 / 7

SHEET 07 OF 18