

# KEY WEST HARBOR NORTHWEST CHANNEL MONROE COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY18 17-FOOT PROJECT

### SURVEY NOTES

- REFER TO SURVEY NO. 18-123.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KT) MODEL. KT FILE NAME IS: "BROWARD-MIAMIDADE-MONROE-COLLIER\_2018 05 02.KTD".
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- 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)
- 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 DATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS BELOW:  
NOAA TIDAL STATION 872-4580, KEY WEST, FLORIDA
- VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC 2024 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SV-JACKSONVILLE	31 JUL 2018	NORTHWEST CHANNEL
SV-JACKSONVILLE	03 AUG 2018	NORTHWEST CHANNEL

- AIDS TO NAVIGATION WERE NOT 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 13.

LEGEND	
	BENCHMARK
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

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Jacksonville District

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DESIGNED BY: WRM  
DRAWN BY: WRM  
CHECKED BY: WRM  
DATE: AUG 2018

FILE NAME: 18-123-CH-17-FOOT-INDEX-LOC-AND-VIC-MAP.DGN  
PROJECT: 18-123-CH-17-FOOT-INDEX-LOC-AND-VIC-MAP

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

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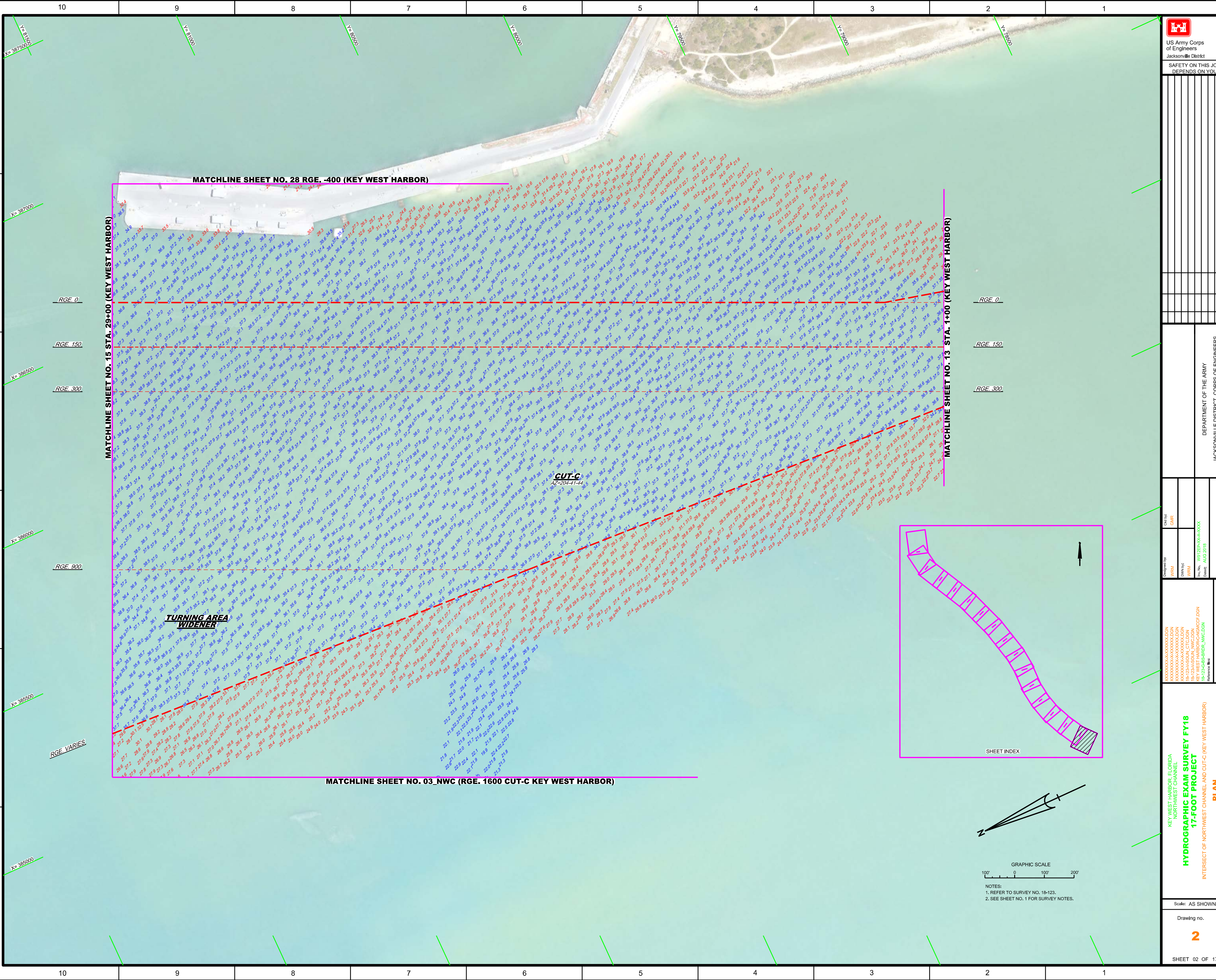
KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
HYDROGRAPHIC EXAM SURVEY FY18  
17-FOOT PROJECT  
INDEX, LOCATION AND VICINITY  
MAP

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Scale: AS SHOWN

Drawing no.  
**1**

SHEET 01 OF 17

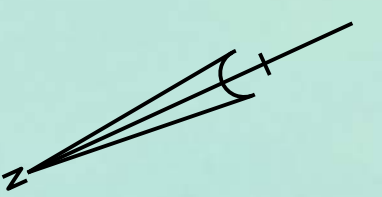
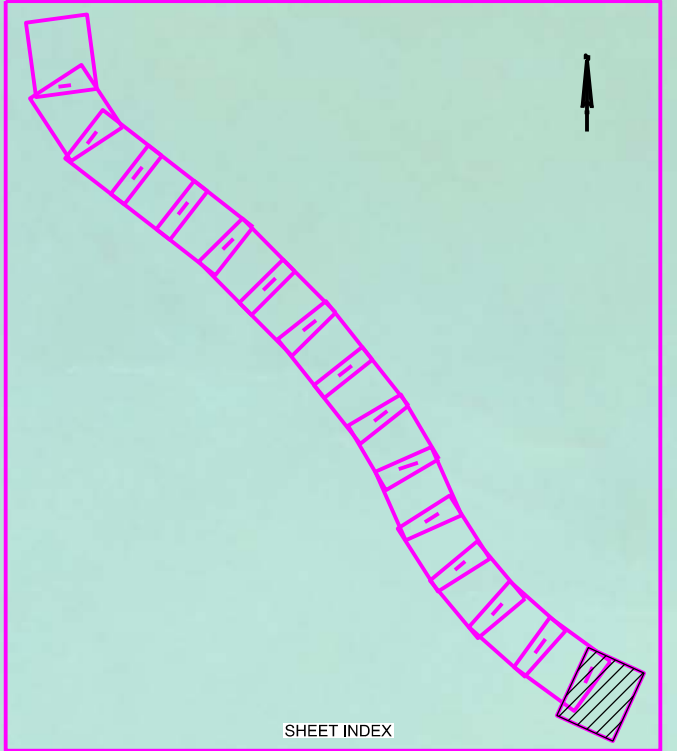


NO.	DATE	DESCRIPTION

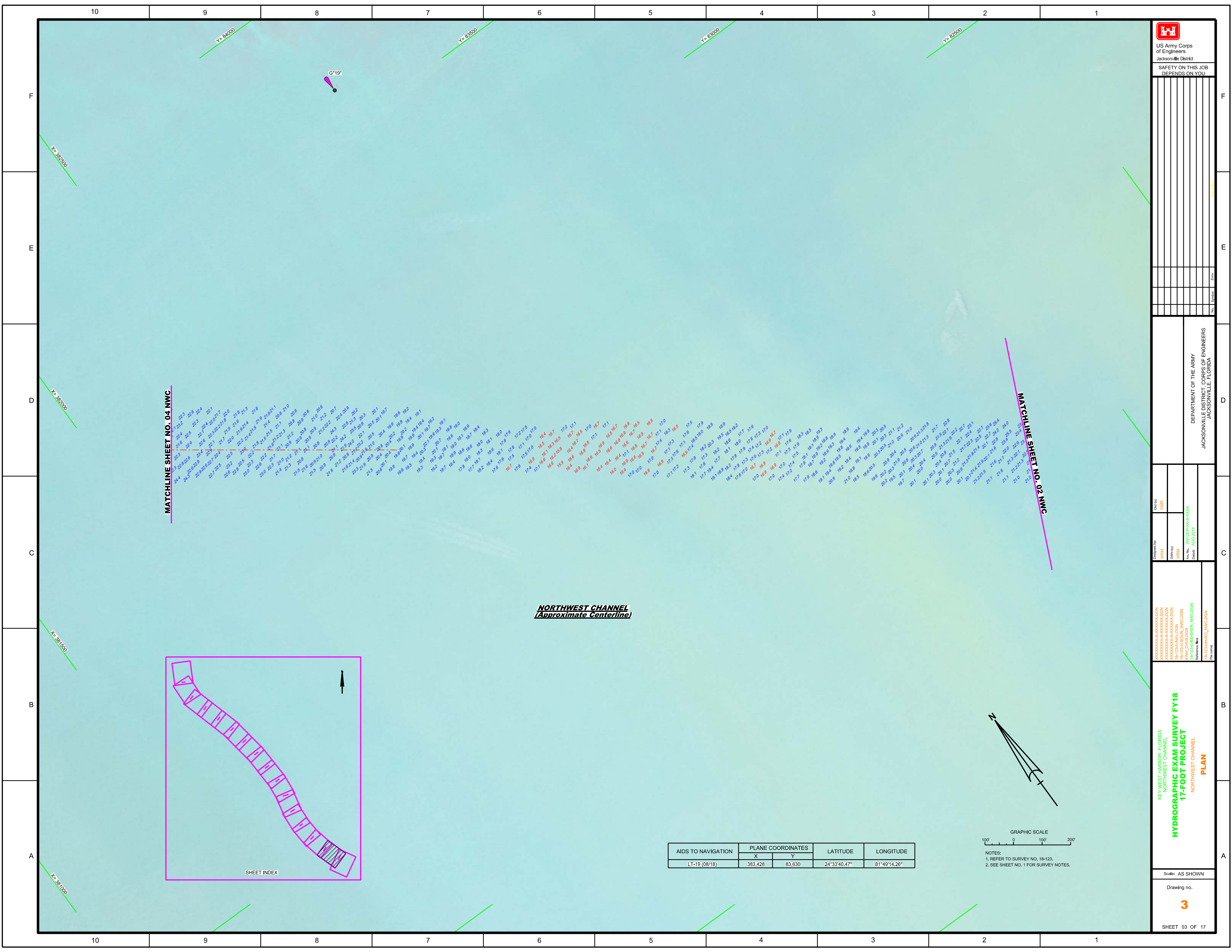
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

Designed by: VTRM  
Checked by: GHR  
Drawn by: VTRM  
Reviewed by: VTRM  
Project No.: W12P25A-AV-0404  
Contract: AUG 2018  
Reference: 16-123-04-RDR\_KWC.DGN  
16-123-04-R02\_NWC.DGN

KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
17-FOOT PROJECT  
INTERSECT OF NORTHWEST CHANNEL AND CUT-C (KEY WEST HARBOR)  
**PLAN**



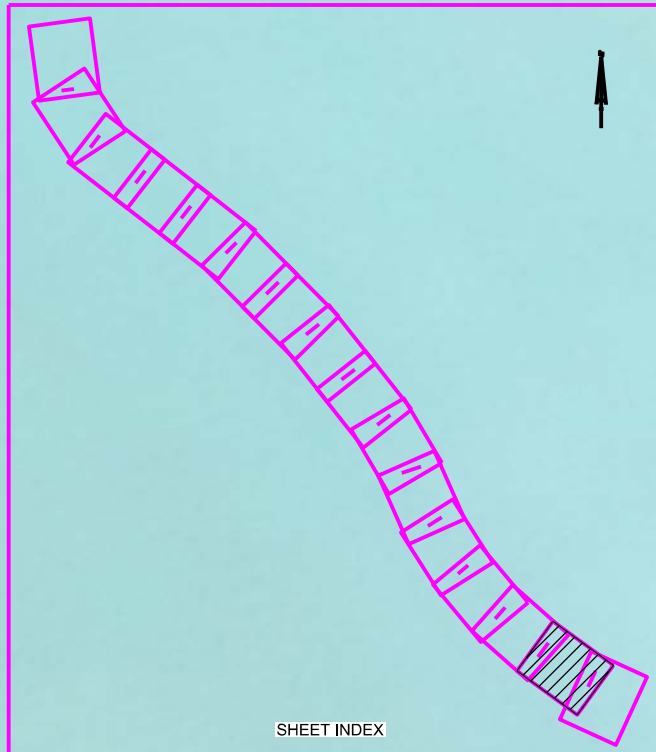
NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



MATCHLINE SHEET NO. 04 NWC

MATCHLINE SHEET NO. 02 NWC


**NORTHWEST CHANNEL**  
*(Approximate Centerline)*



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-19 (08/18)	383,428	83,630	24°33'40.47"	81°49'14.26"

GRAPHIC SCALE  
100' 0 100' 200'

NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



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Drawn by: WRM  
Checked by: GHR

Designated by: WRM  
Checked by: GHR

File No.: 18-123-000-0000  
Date: AUG 2018

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XXXXXXXXXXXXXXXXXXXX  
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18-123-000-0000  
WRM GCH/DGN  
18-123-000-0000  
18-123-000-0000  
18-123-000-0000

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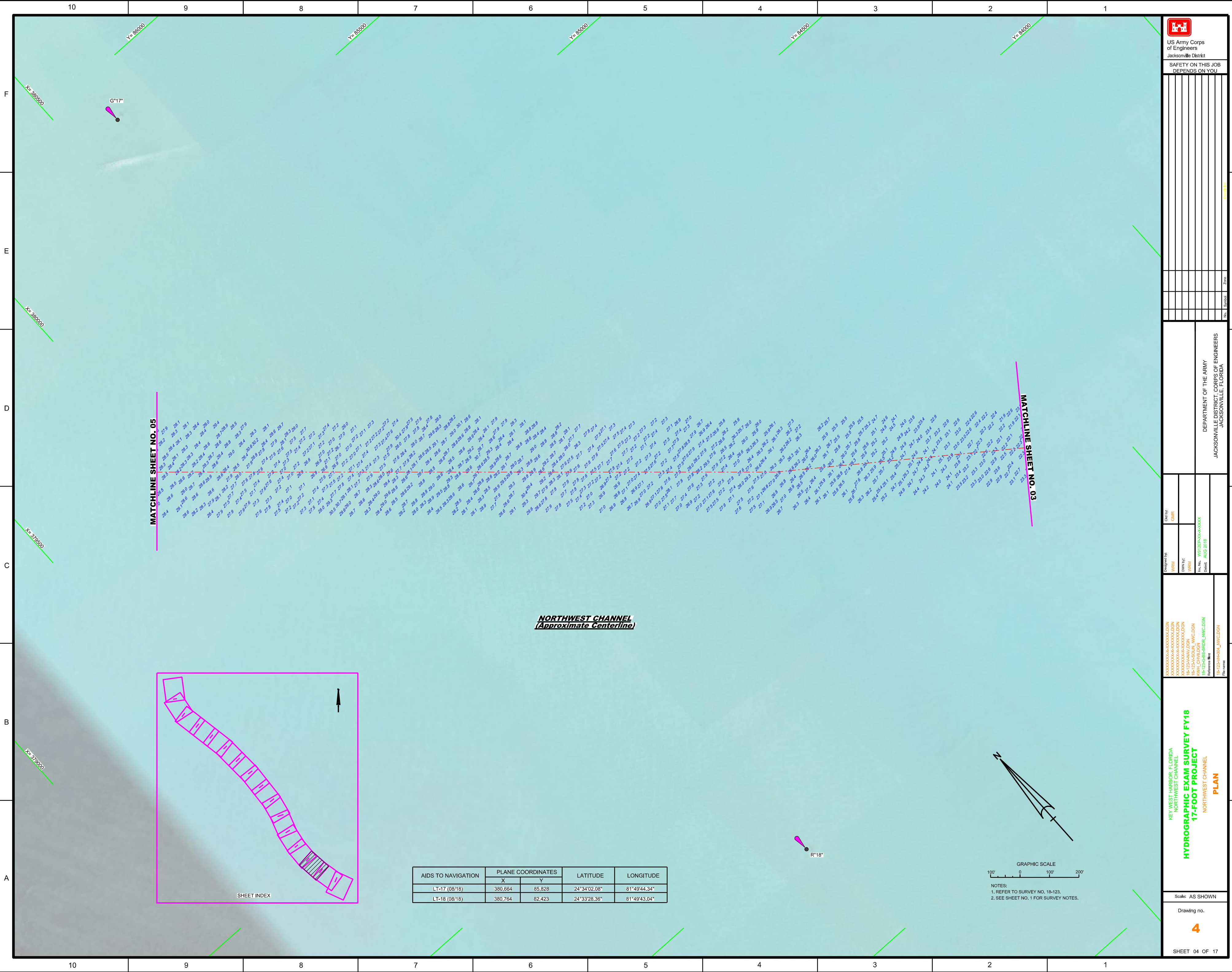
KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
NORTHWEST CHANNEL  
**PLAN**

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Scale: AS SHOWN

Drawing no.  
**3**

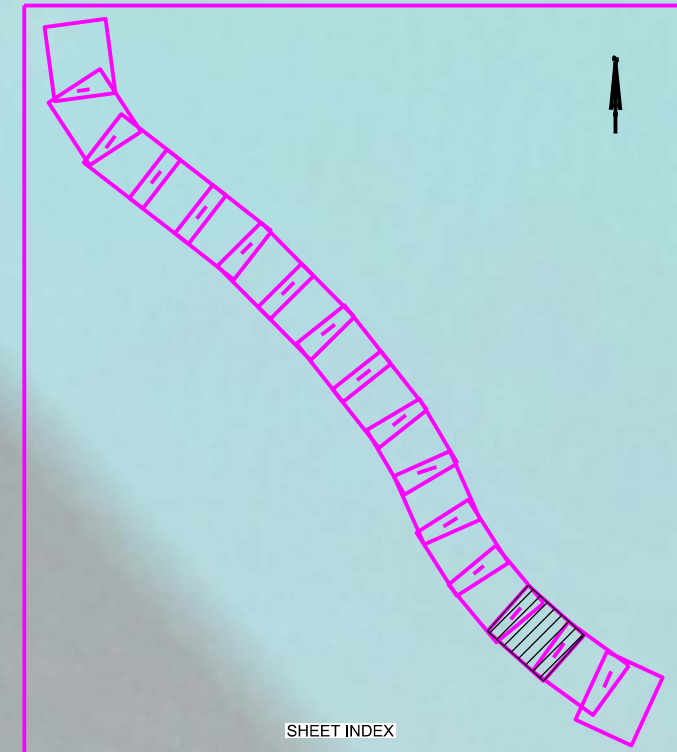
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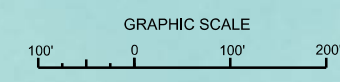
MATCHLINE SHEET NO. 05

MATCHLINE SHEET NO. 03


**NORTHWEST CHANNEL**  
(Approximate Centerline)



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-17 (08/18)	380,664	85,828	24°34'02.08"	81°49'44.34"
LT-18 (08/18)	380,764	82,423	24°33'28.36"	81°49'43.04"



NOTES:  
1. REFER TO SURVEY NO. 18-423.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



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Designed by: WRM  
Checked by: GHR

Drawn by: WRM  
Checked by: GHR

File No: 18-123-68-8R0K\_NWC.DGN  
Reference File: 18-123-68-8R0K\_NWC.DGN

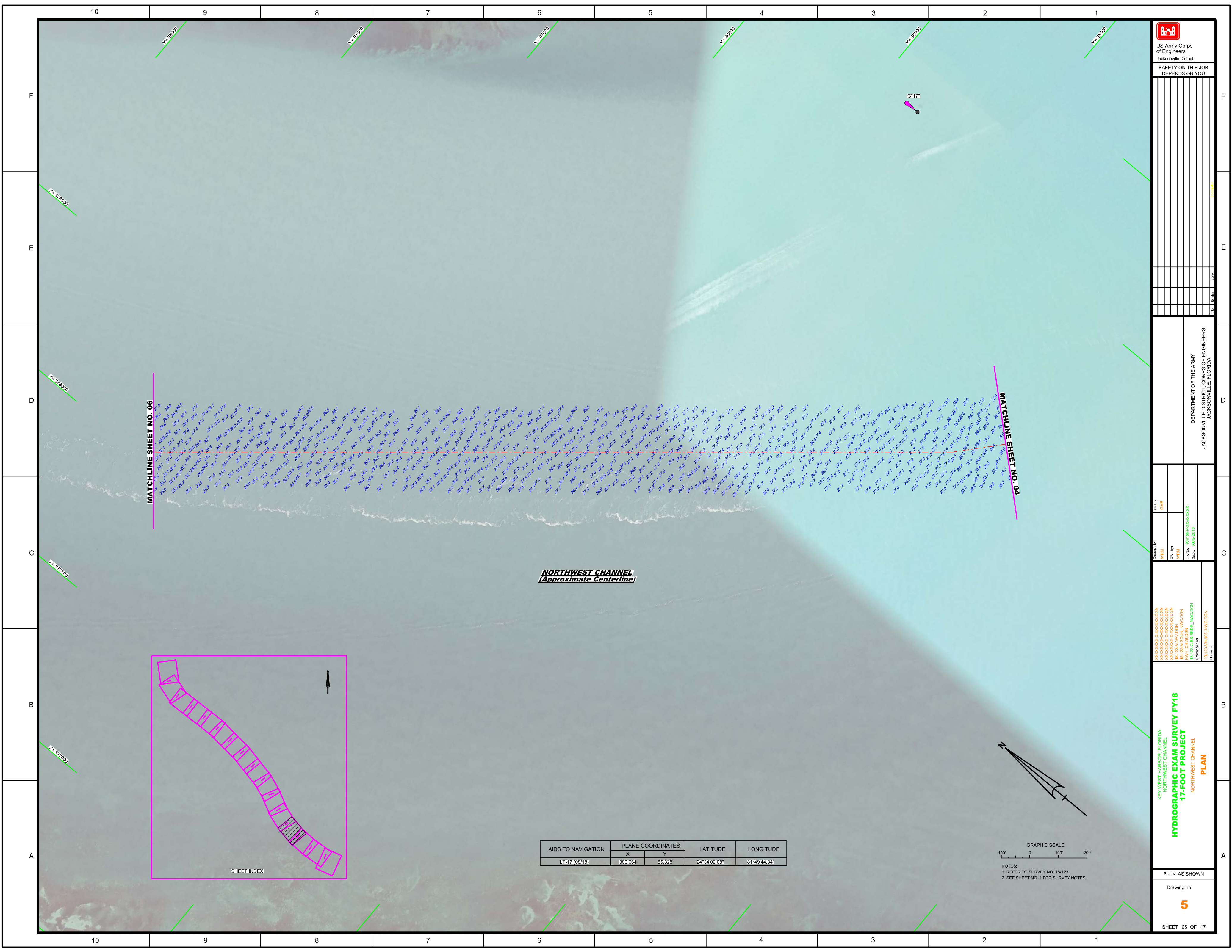
Scale: AS SHOWN

Drawing no.  
**4**

SHEET 04 OF 17

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KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
NORTHWEST CHANNEL  
**PLAN**



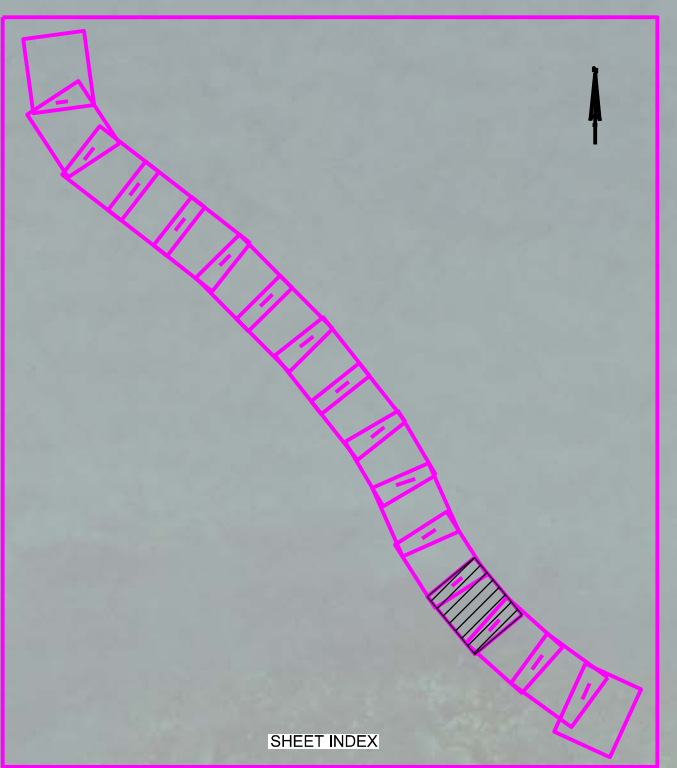
AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-17 (08/18)	380.664	85.828	24°34'02.06"	81°49'44.34"

GRAPHIC SCALE  
100' 0 100' 200'  
NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

MATCHLINE SHEET NO. 06

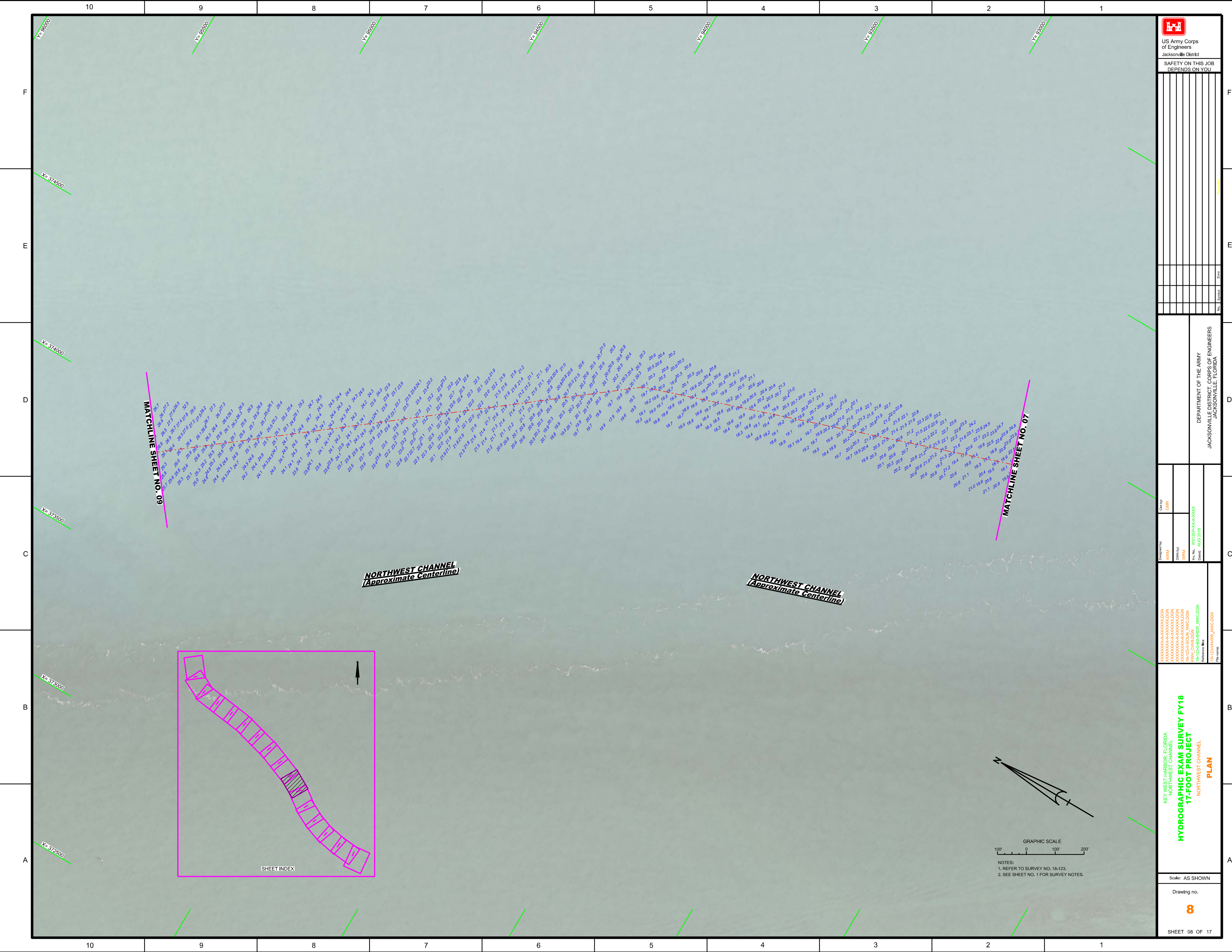
MATCHLINE SHEET NO. 04

**NORTHWEST CHANNEL**  
*(Approximate Centerline)*



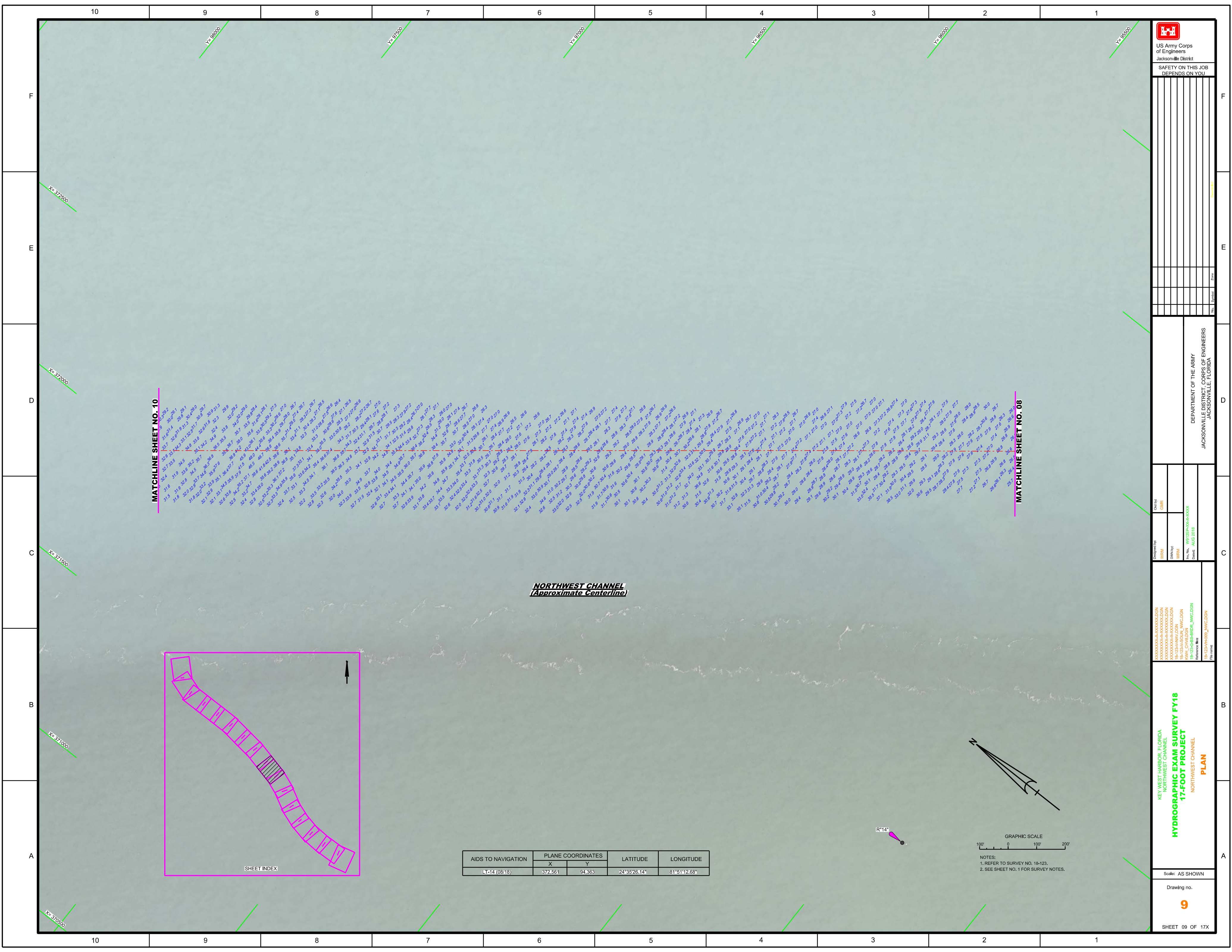






NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

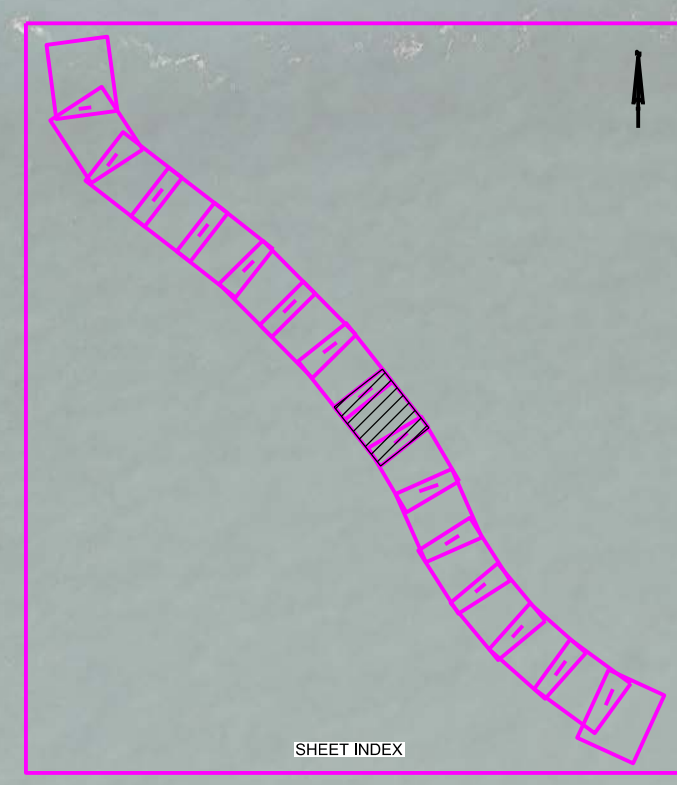




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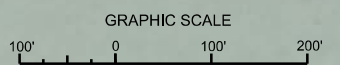
MATCHLINE SHEET NO. 08

**NORTHWEST CHANNEL**  
(Approximate Centerline)




SHEET INDEX

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-14 (08/18)	372.561	94.363	24°35'26.14"	81°51'12.68"



NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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Drawn by: GHR  
Checked by: WRM  
Designed by: WRM  
DWG No: WRM  
File No: 18-123-001-000000  
Date: AUG 2018

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XXXXXXXXXXXXXXXXXXXX  
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18-123-001-000000  
WRM GVD/DOG  
18-123-001-000000  
18-123-001-000000  
Reference File:  
18-123-001-000000  
File Name:

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KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
NORTHWEST CHANNEL  
**PLAN**

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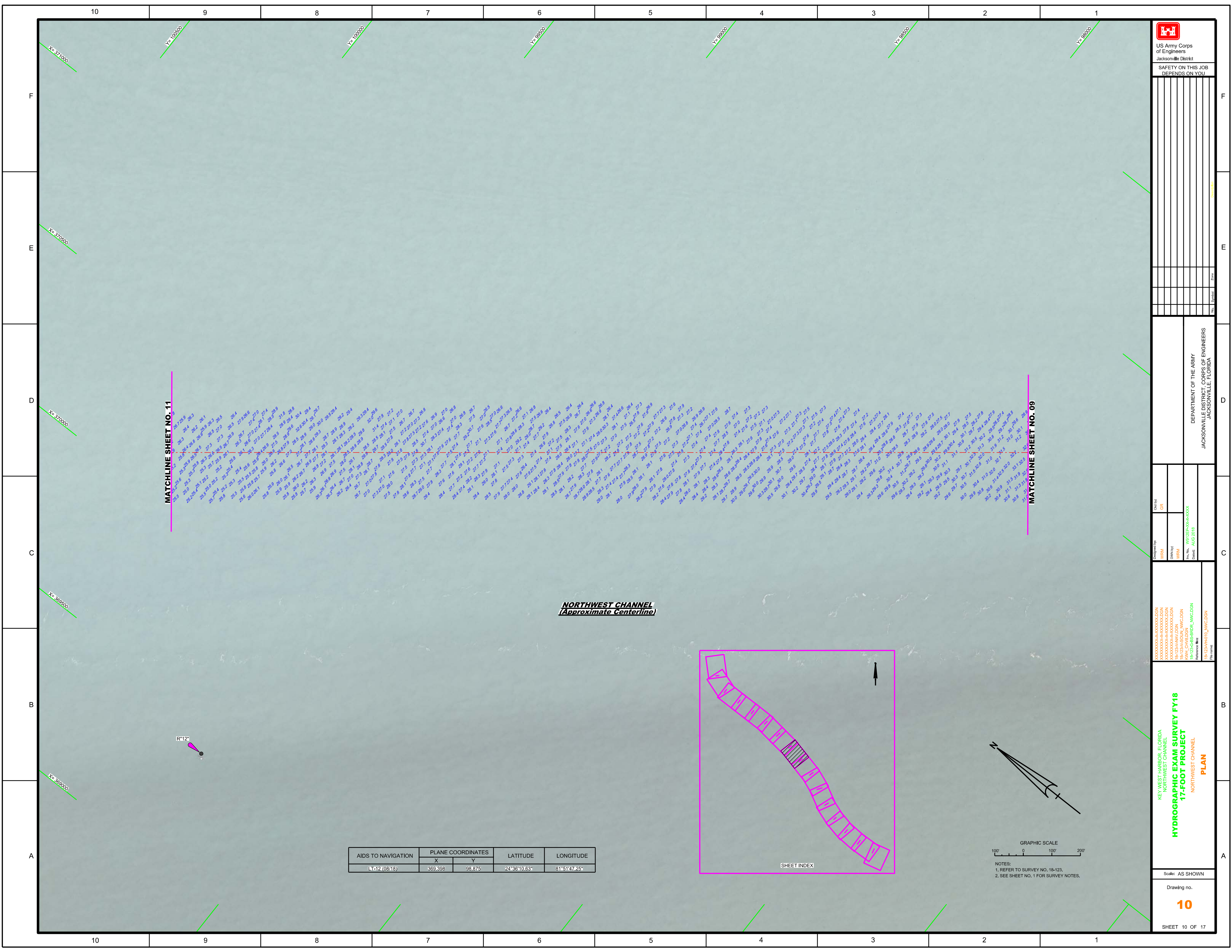
Scale: AS SHOWN

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Drawing no.  
**9**

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SHEET 09 OF 17X



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-12 (0818)	369,398	98,675	24°36'10.63"	81°54'47.25"

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JACKSONVILLE, FLORIDA

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<small>Checked by:</small> GR	<small>Designed by:</small> WRM	<small>Drawn by:</small> WRM
<small>File No.:</small> 18-123-CH-17-0000	<small>Project No.:</small> 18-123-CH-17-0000	<small>Date:</small> AUG 2018

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KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
NORTHWEST CHANNEL  
**PLAN**

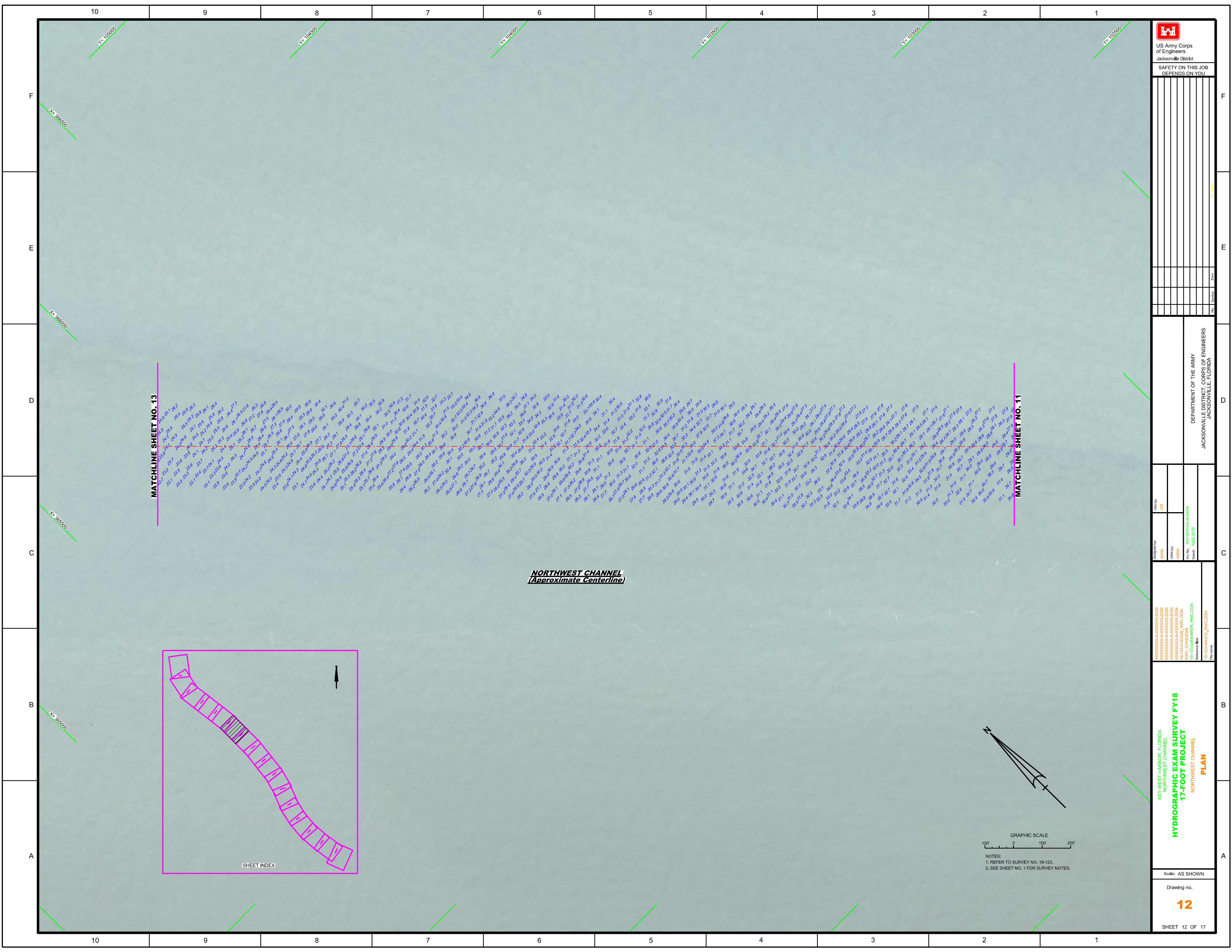
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Scale: AS SHOWN

Drawing no.  
**10**

SHEET 10 OF 17

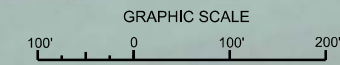
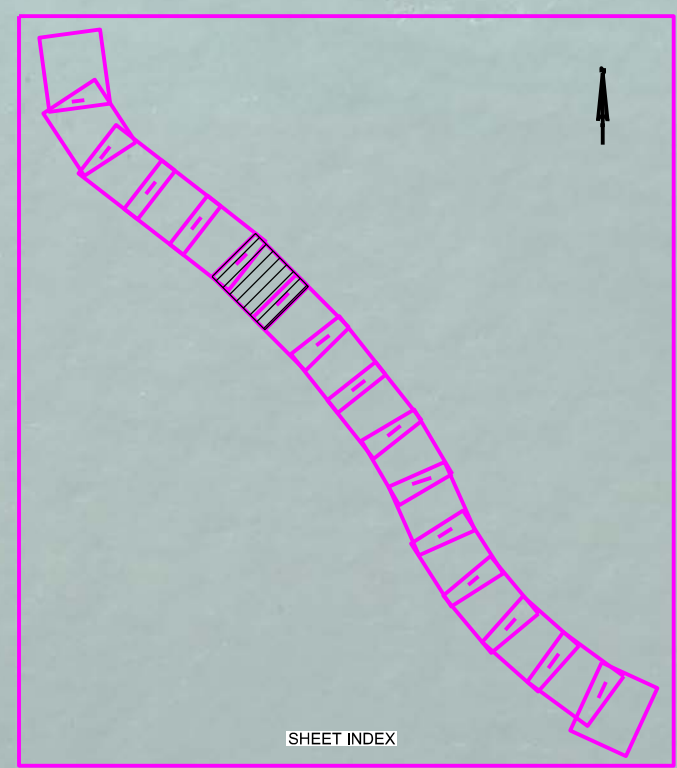




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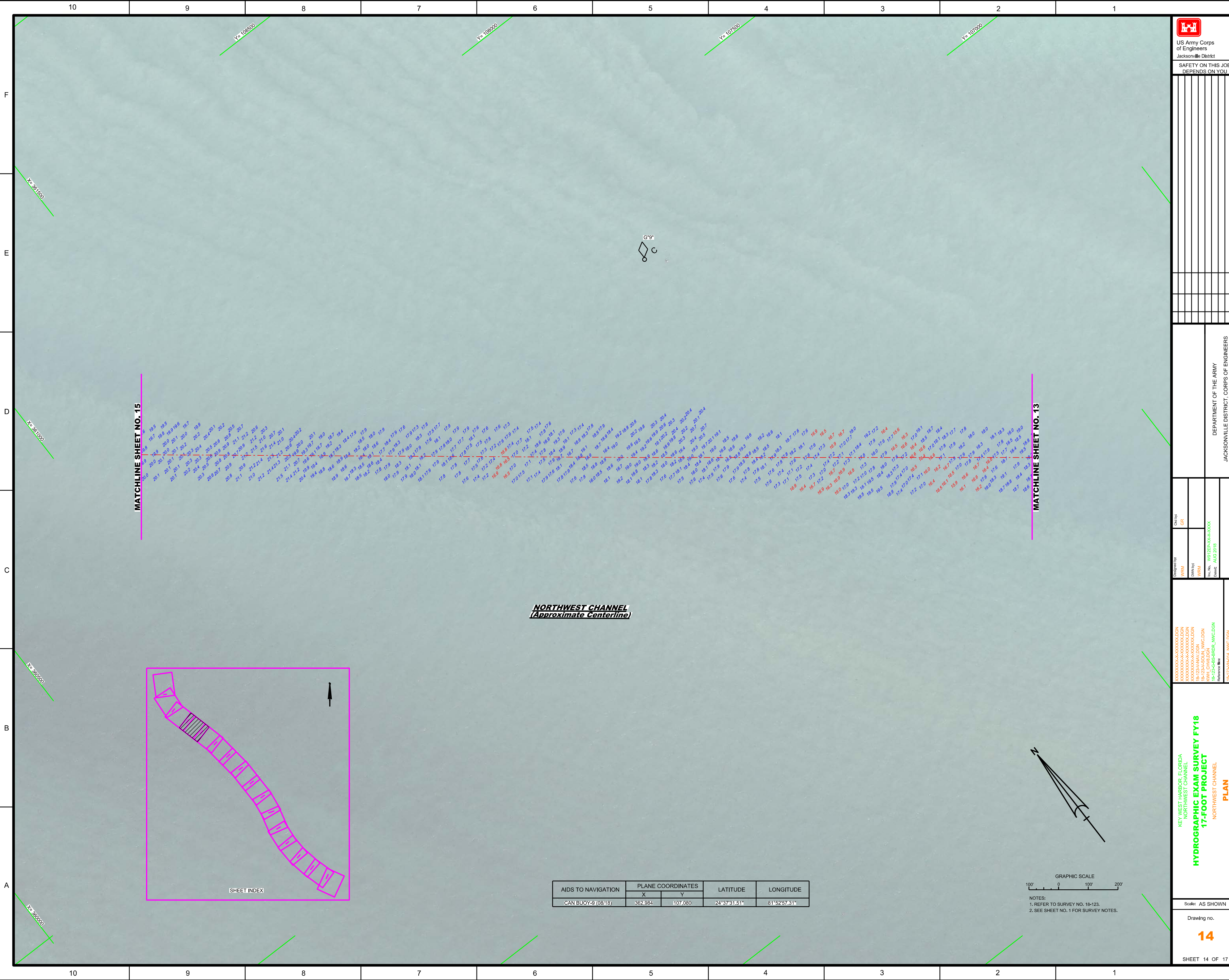
MATCHLINE SHEET NO. 11

**NORTHWEST CHANNEL**  
(Approximate Centerline)



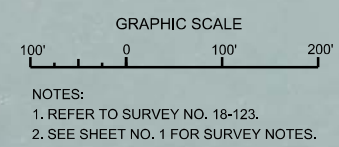
NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

<p>US Army Corps of Engineers Jacksonville District</p>	
<p>SAFETY ON THIS JOB DEPENDS ON YOU</p>	
<p>Drawn by: GRL</p>	<p>Checked by: GRL</p>
<p>Designed by: WRM</p>	<p>Approved by: WRM</p>
<p>Drawn by: WRM</p>	<p>Checked by: WRM</p>
<p>File No.: 18-123-6B-SB-RDRK_NWC.DGN</p>	<p>Date: AUG 2018</p>
<p>XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX WRM CHVDLGN 18-123-6B-SB-RDRK_NWC.DGN Reference File: 18-123-6B-R12_NWC.DGN File Name:</p>	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>
<p>KEY WEST HARBOR, FLORIDA NORTHWEST CHANNEL <b>HYDROGRAPHIC EXAM SURVEY FY18</b> 17-FOOT PROJECT NORTHWEST CHANNEL <b>PLAN</b></p>	
<p>Scale: AS SHOWN</p>	
<p>Drawing no. <b>12</b></p>	
<p>SHEET 12 OF 17</p>	



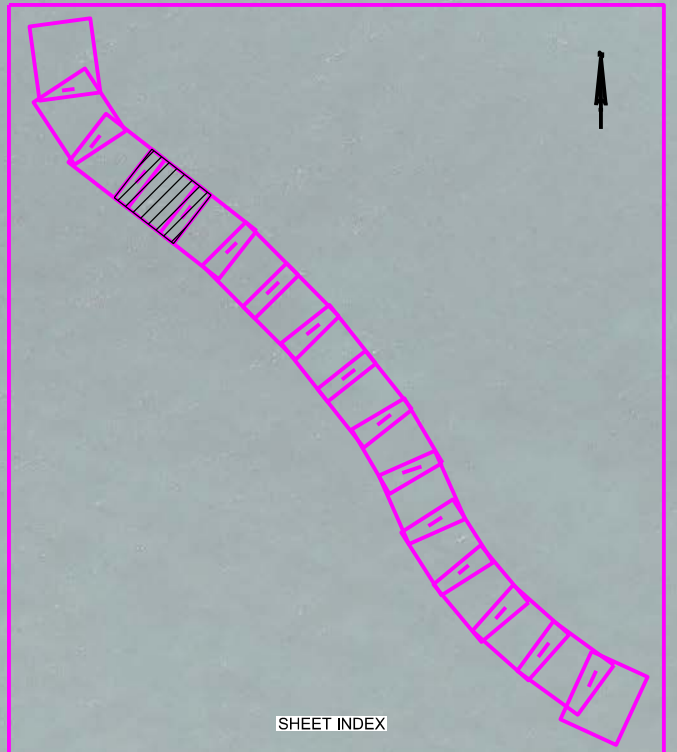
**NORTHWEST CHANNEL**  
*(Approximate Centerline)*

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-9 (08/18)	362,984	107,080	24°37'31.51"	81°52'57.31"

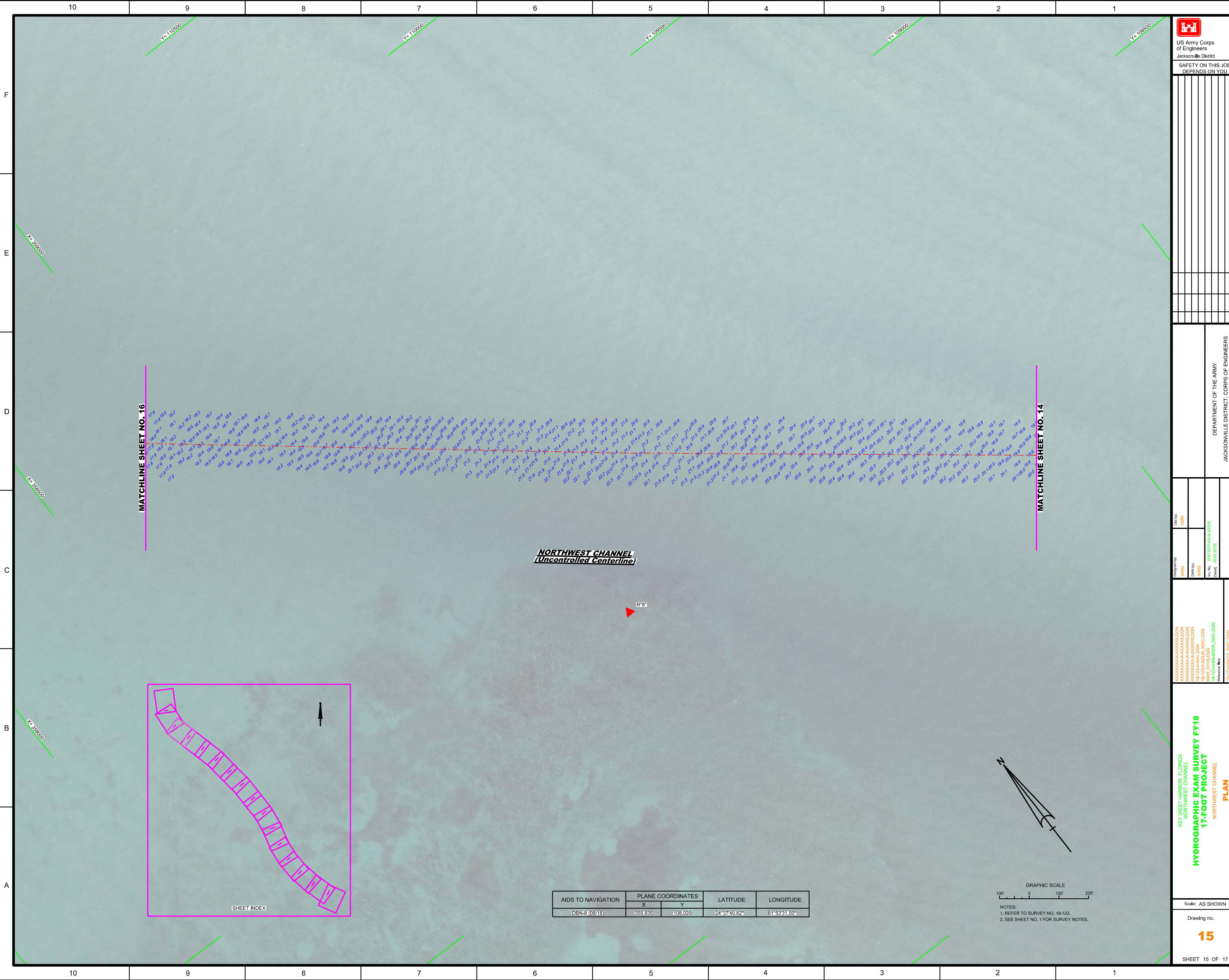


MATCHLINE SHEET NO. 15

MATCHLINE SHEET NO. 13



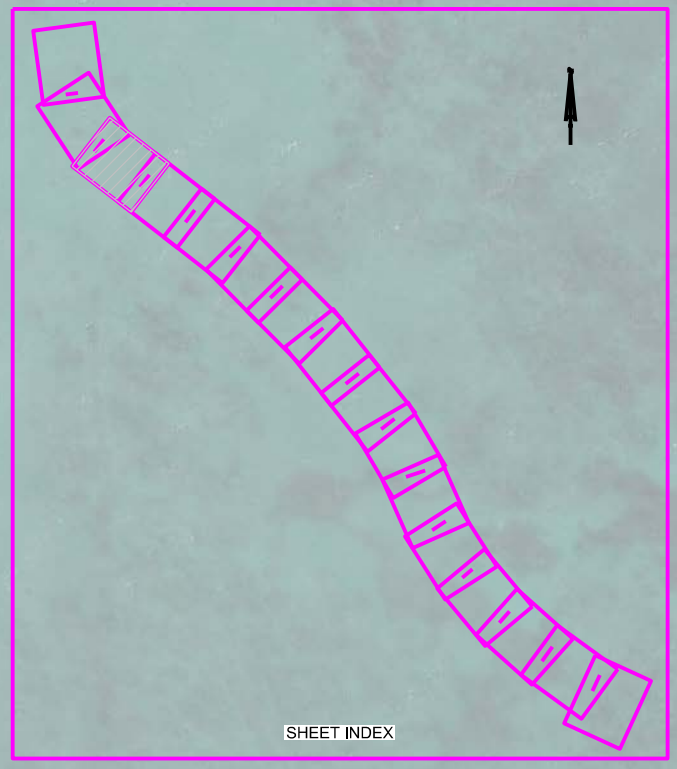
SHEET INDEX



MATCHLINE SHEET NO. 16

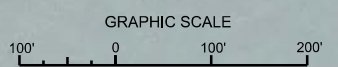
MATCHLINE SHEET NO. 14

**NORTHWEST CHANNEL**  
*(Uncontrolled Centerline)*




R-6

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-8 (08/18)	359,835	108,020	24°37'40.62"	81°53'31.50"



NOTES:  
1. REFER TO SURVEY NO. 18-123.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



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Jacksonville District

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Designed by: WRM  
Drawn by: WRM  
Checked by: WRM

File Name: 18-123-ES-8B-SRDR\_NWC.DGN  
Reference File: 18-123-1401-L\_NWC.DGN

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

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KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
NORTHWEST CHANNEL  
**PLAN**

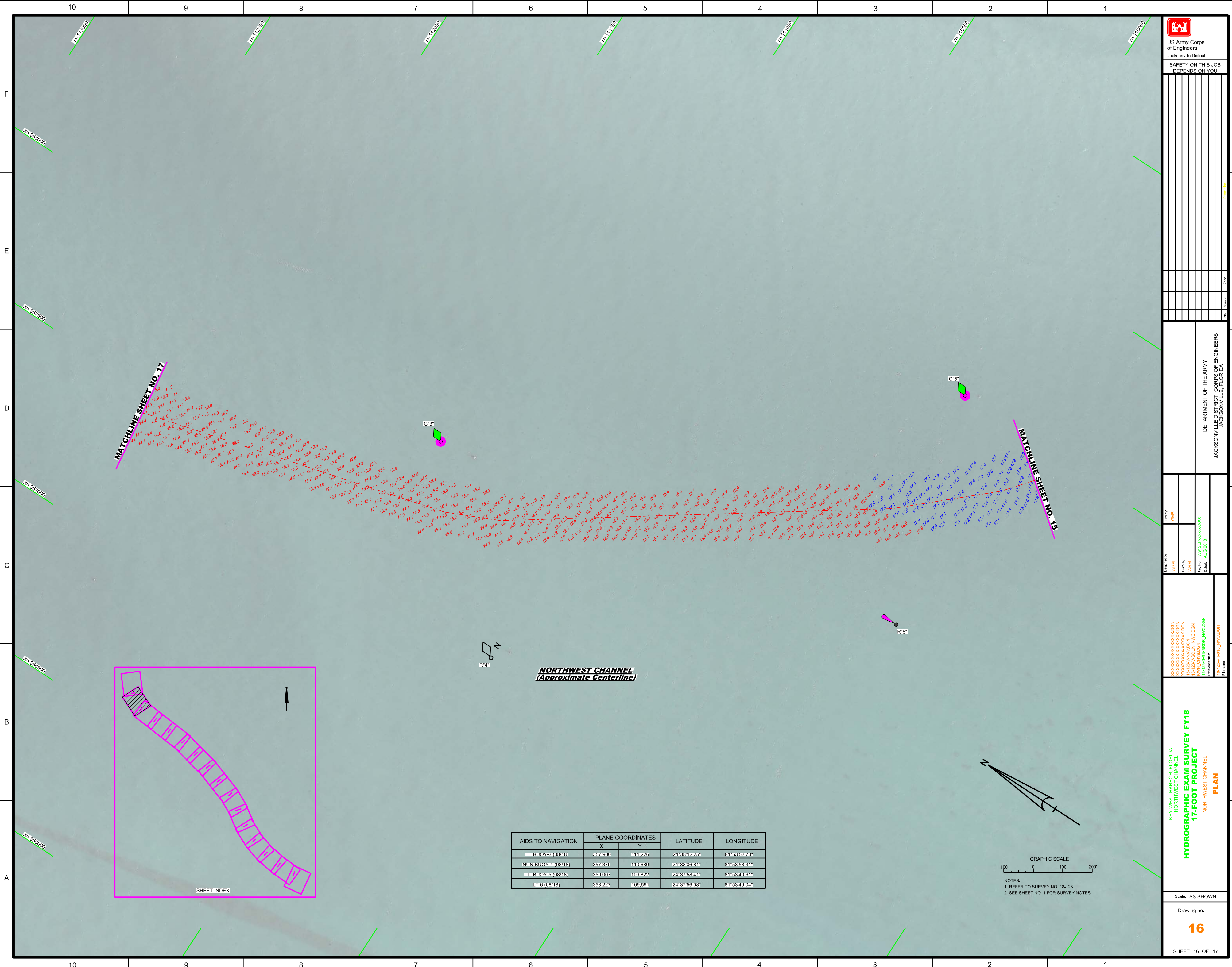
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Scale: AS SHOWN

Drawing no.

**15**

SHEET 15 OF 17



No.	Symbol	Zone

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

Designed by:  
 WRM  
 DWN/DF  
 WRM  
 Approved by:  
 WR1255-00-00000  
 Date:  
 AUG 2018

File name:  
 18-12A-H01/L\_NWC.DGN

KEY WEST HARBOR, FLORIDA  
 NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
 NORTHWEST CHANNEL  
**PLAN**

Scale: AS SHOWN  
 Drawing no.  
**16**  
 SHEET 16 OF 17

MATCHLINE SHEET NO. 17

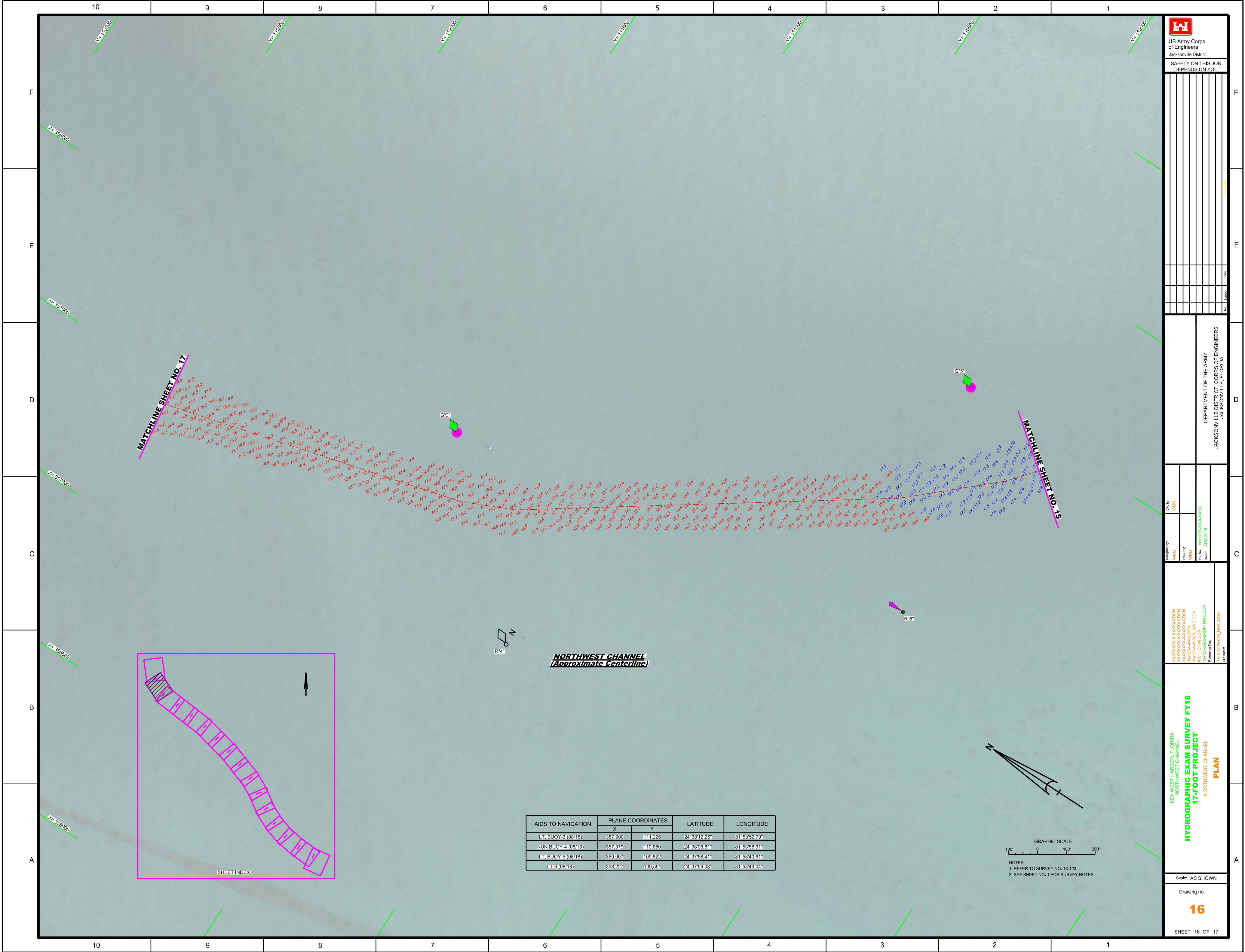
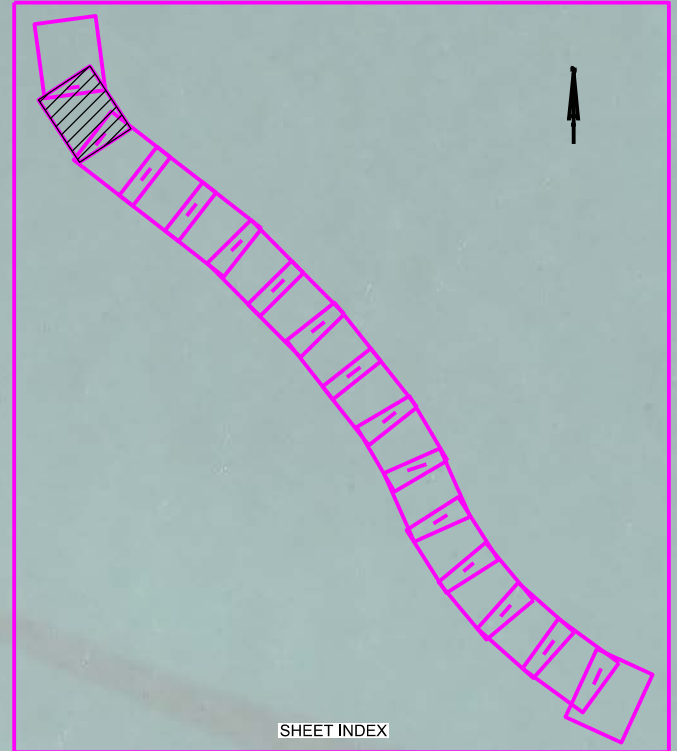
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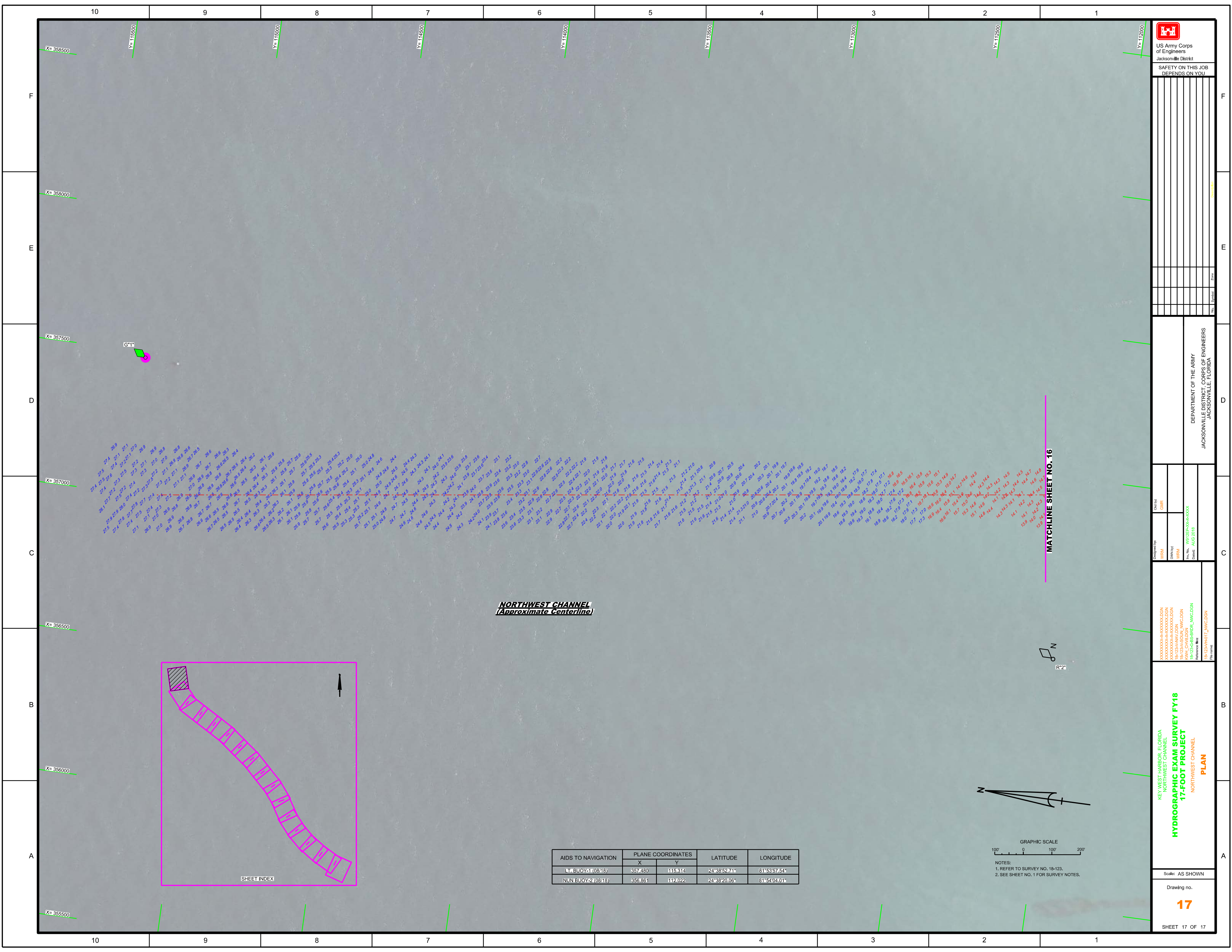
**NORTHWEST CHANNEL**  
*(Approximate Centerline)*

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (08/18)	357,900	111,226	24°38'12.25"	81°53'52.70"
NUN BUOY-4 (08/18)	357,379	110,680	24°38'06.81"	81°53'58.31"
LT. BUOY-5 (08/18)	359,007	109,822	24°37'58.41"	81°53'40.61"
LT-6 (08/18)	358,227	109,591	24°37'56.08"	81°53'49.04"



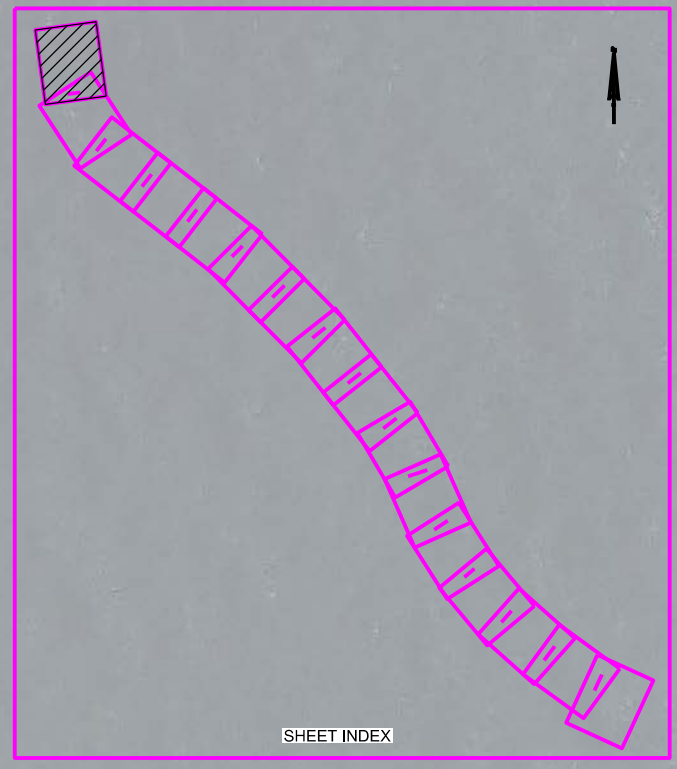
NOTES:  
 1. REFER TO SURVEY NO. 18-123.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



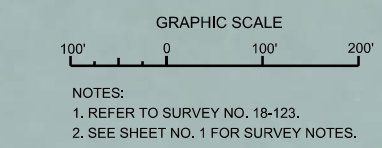


**NORTHWEST CHANNEL**  
*(Approximate Centerline)*


**MATCHLINE SHEET NO. 16**



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-1 (0818)	357.480	115.314	24°38'52.71"	81°53'57.54"
NUN BUOY-2 (0818)	356.861	112.022	24°38'20.06"	81°54'04.01"



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

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Designed by: WRM DWN/PJC WRM	Check by: GHR	File No.: 18-123-CH-17-17-0001	Date: AUG 2018
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18-123-CH-17-17-0001  
WRM CH-17-17-0001  
18-123-CH-17-17-0001  
Reference files:  
18-123-CH-17-17-0001

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KEY WEST HARBOR, FLORIDA  
NORTHWEST CHANNEL  
**HYDROGRAPHIC EXAM SURVEY FY18**  
**17-FOOT PROJECT**  
NORTHWEST CHANNEL  
**PLAN**

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Scale: AS SHOWN

Drawing no.  
**17**

SHEET 17 OF 17