

SHEET INDEX



KEY WEST HARBOR NORTHWEST CHANNEL MONROE COUNTY, FLORIDA EXAMINATION SURVEY FY12 17-FOOT PROJECT

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

SURVEY NOTES

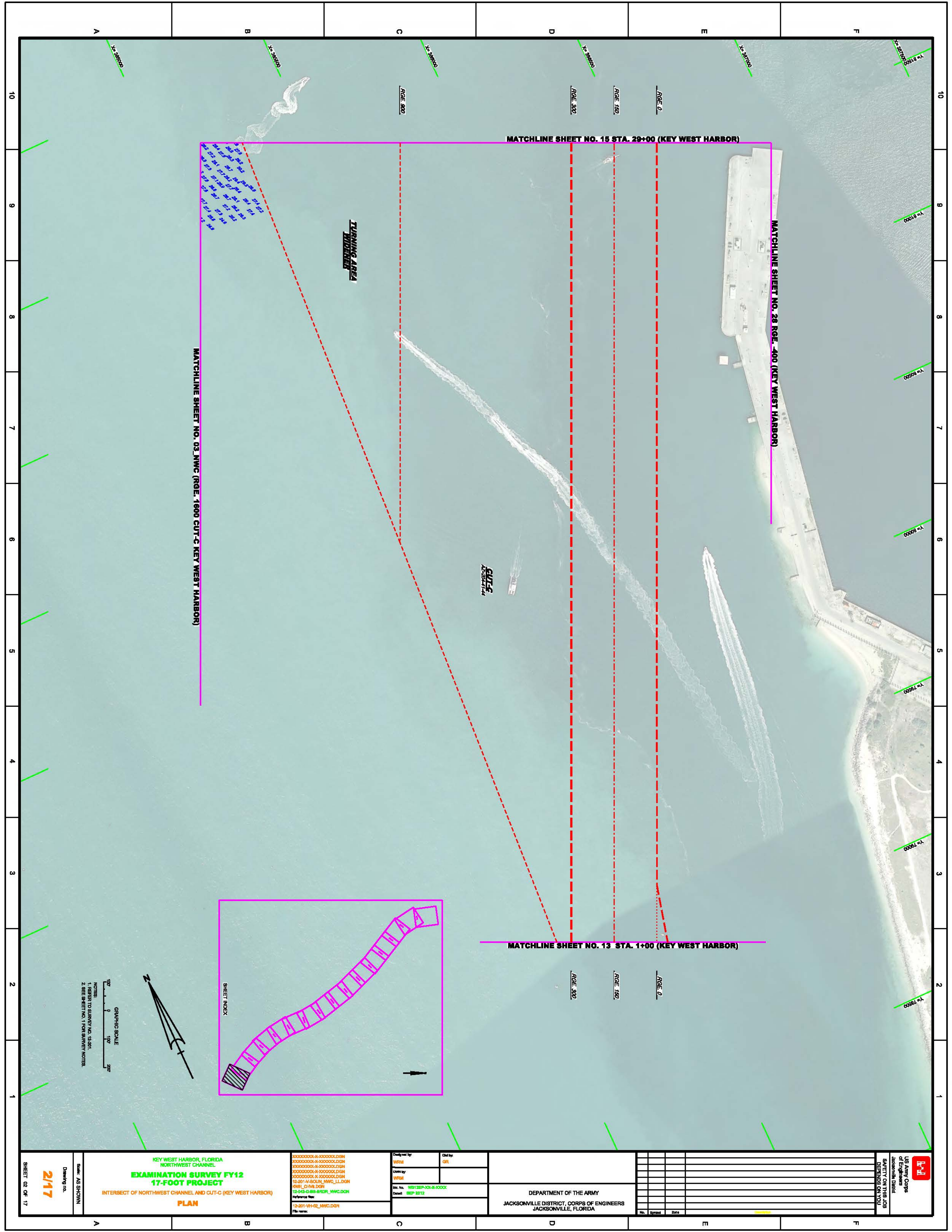
- REFER TO SURVEY NO. 12-201.
 - TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "KEYWEST_07JAN2011.KTD".
 - ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
 - 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" (OPUS PID# BBCF03)
TIDE STAFF LOCATED FROM "4580 C 1992"
 - DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001 AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S DATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAUGE SITES SPECIFIED BELOW:
NOAA TIDAL STATION 872-4580, KEY WEST, FLORIDA
 - VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 4800 INTERFEROMETRIC SYSTEM OPERATING AT 230 KHZ AND A ROSS 835 SMARTSOUNDER OPERATING AT 28/200 KHZ. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
- | VESSEL | DATE OF SURVEY | CUT |
|--------|----------------|-------------------|
| SB-32 | 08-09 SEP 2012 | NORTHWEST CHANNEL |
- 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 AND IS NOT TO BE USED FOR NAVIGATION.
 - 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, 1 JAN 02.

US Army Corps of Engineers
Jacksonville District

**SAFETY ON THIS JOB
DEPENDS ON YOU**

DESIGNED BY: WRM DRAWN BY: WRM FILE NO.: W120200-00-00000 CHECK: WRM DATE: SEP 2012	CHECKED BY: GRL DATE:	PROJECT NO.: 12-201-VH-01 MAP	SHEET NO.: 1	SHEET 01 OF 17

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



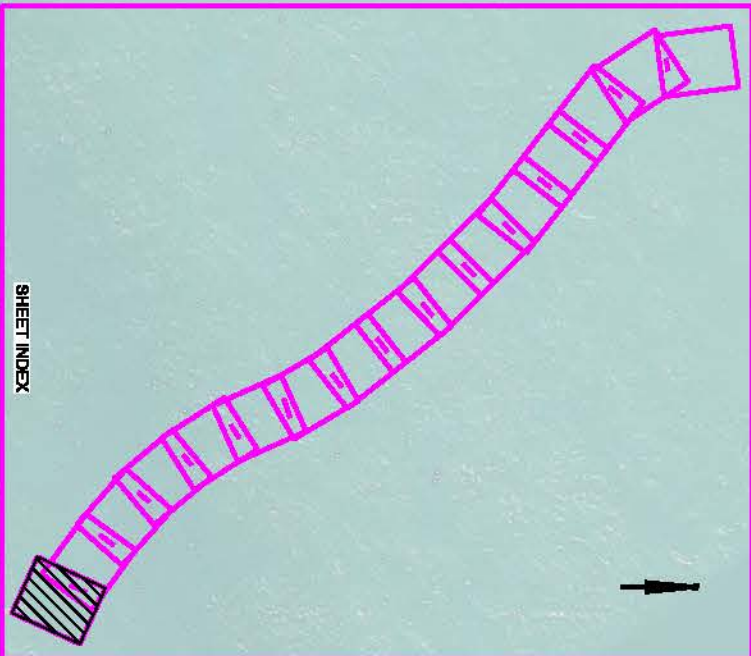
1. SEE SHEET NO. 15 FOR TURNING AREA
 2. SEE SHEET NO. 28 FOR TURNING AREA
 3. SEE SHEET NO. 13 FOR TURNING AREA
 4. SEE SHEET NO. 15 FOR TURNING AREA
 5. SEE SHEET NO. 28 FOR TURNING AREA
 6. SEE SHEET NO. 13 FOR TURNING AREA
 7. SEE SHEET NO. 15 FOR TURNING AREA
 8. SEE SHEET NO. 28 FOR TURNING AREA
 9. SEE SHEET NO. 13 FOR TURNING AREA
 10. SEE SHEET NO. 15 FOR TURNING AREA
 11. SEE SHEET NO. 28 FOR TURNING AREA
 12. SEE SHEET NO. 13 FOR TURNING AREA
 13. SEE SHEET NO. 15 FOR TURNING AREA
 14. SEE SHEET NO. 28 FOR TURNING AREA
 15. SEE SHEET NO. 13 FOR TURNING AREA
 16. SEE SHEET NO. 15 FOR TURNING AREA
 17. SEE SHEET NO. 28 FOR TURNING AREA
 18. SEE SHEET NO. 13 FOR TURNING AREA
 19. SEE SHEET NO. 15 FOR TURNING AREA
 20. SEE SHEET NO. 28 FOR TURNING AREA

MATCHLINE SHEET NO. 03 NWC (RQE. 1800 CUT-C KEY WEST HARBOR)

MATCHLINE SHEET NO. 15 STA. 29+00 (KEY WEST HARBOR)

MATCHLINE SHEET NO. 28 RQE. 400 (KEY WEST HARBOR)


MATCHLINE SHEET NO. 13 STA. 1+00 (KEY WEST HARBOR)



SHEET 02 OF 17 2117	Drawing no. Scale: AS SHOWN	KEY WEST HARBOR, FLORIDA NORTHWEST CHANNEL EXAMINATION SURVEY FY12 17-FOOT PROJECT INTERSECT OF NORTHWEST CHANNEL AND CUT-C (KEY WEST HARBOR) PLAN		00000000X-0-000000LDGN 00000000X-0-000000LDGN 00000000X-0-000000LDGN 00000000X-0-000000LDGN 00000000X-0-000000LDGN 12-043-0-BB-BRDW_NWC.DGN Reference file: 12-001-VH-02_NWC.DGN File name:	Designed by: WFRM	Checked by: GR	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	<table border="1"> <tr><th>No.</th><th>Revised</th><th>Date</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	No.	Revised	Date																												US Army Corps of Engineers Jacksonville District SAFETY ON THIS JOB DEPENDS ON YOU
		No.	Revised	Date																																			
WFRM	WFRM	WFRM	WFRM	WFRM																																			

10 9 8 7 6 5 4 3 2 1

F
E
D
C
B
A



US Army Corps
of Engineers
Jacksonville District

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DEPENDS ON YOU**

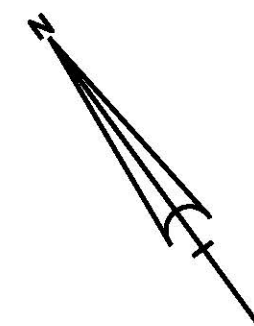
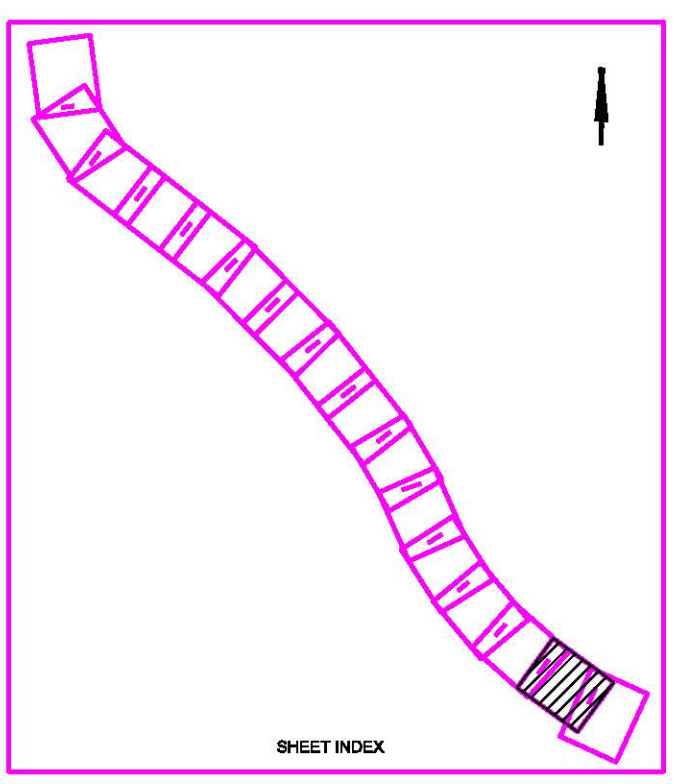
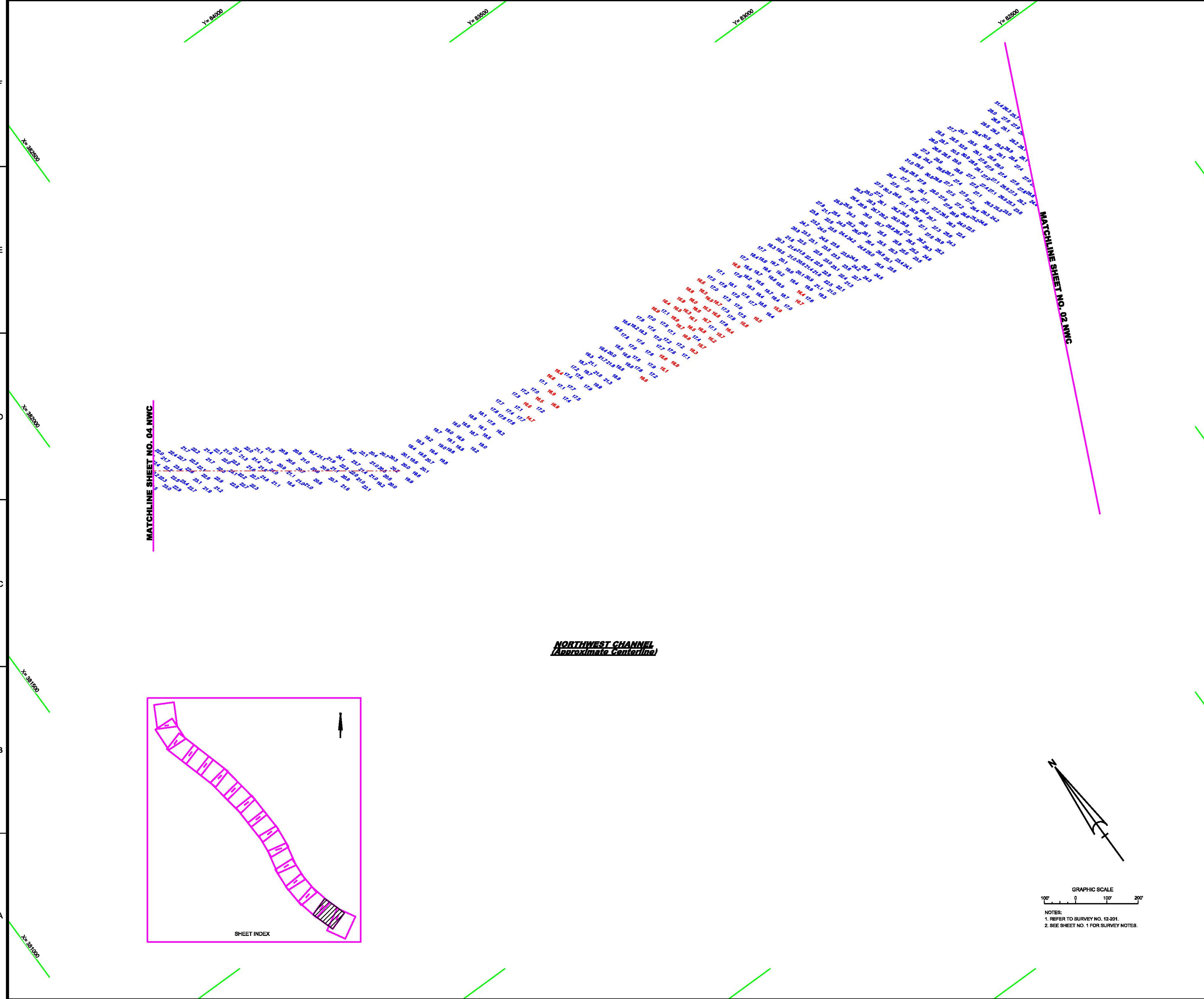
DESIGNED BY: WPM
 CHECKED BY: WPM
 DATE: 08/20/2012

DRAWN BY: WPM
 DATE: 08/20/2012

PROJECT NO: 12-201-VH-03-JWNC-03N
 DRAWING NO: 3/17

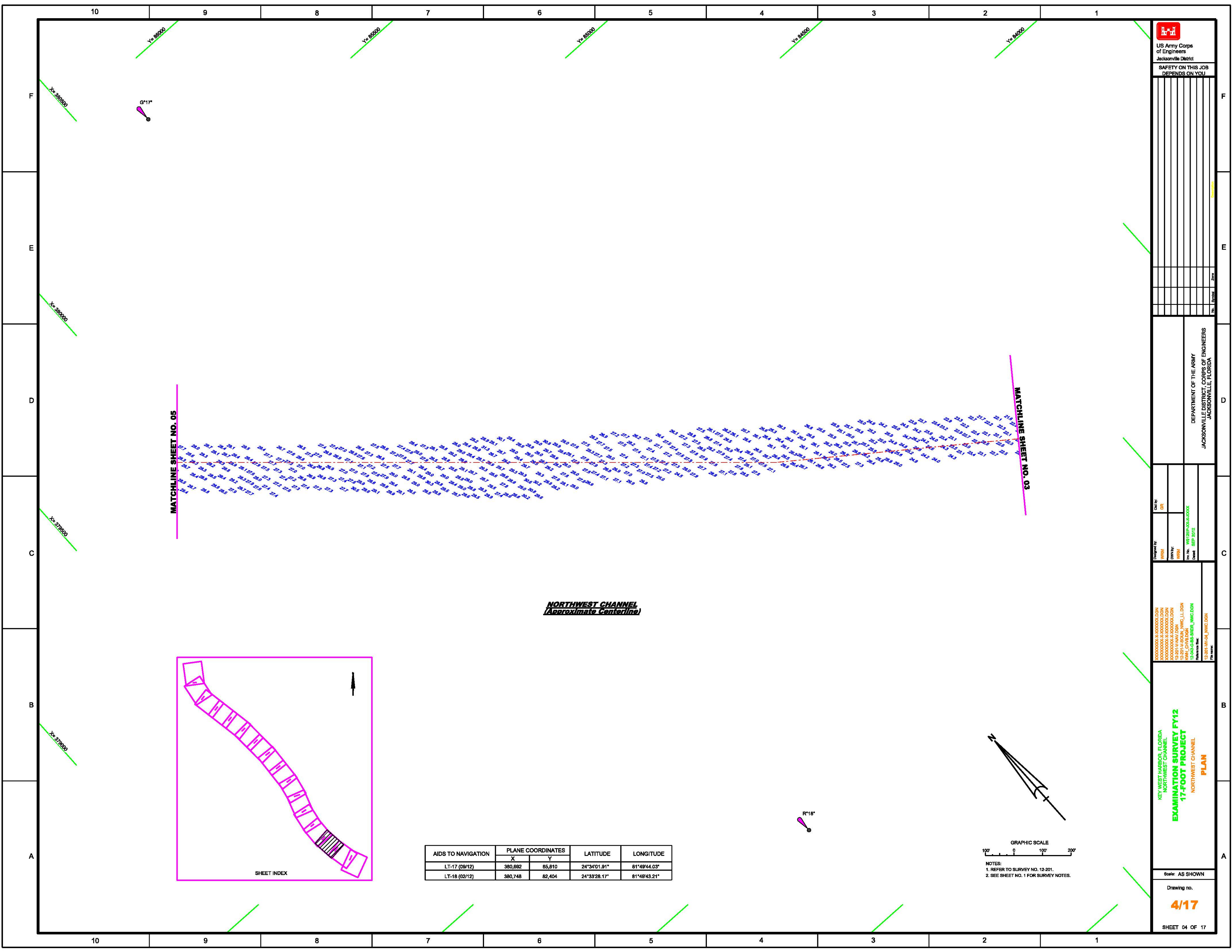
PROJECT TITLE: EXAMINATION SURVEY FY12
 17-FOOT PROJECT
 NORTHWEST CHANNEL
 PLAN

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



GRAPHIC SCALE
 0 100 200
 NOTES:
 1. REFER TO SURVEY NO. 12-201.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

Scale: AS SHOWN
 Drawing no.
3/17
 SHEET 03 OF 17



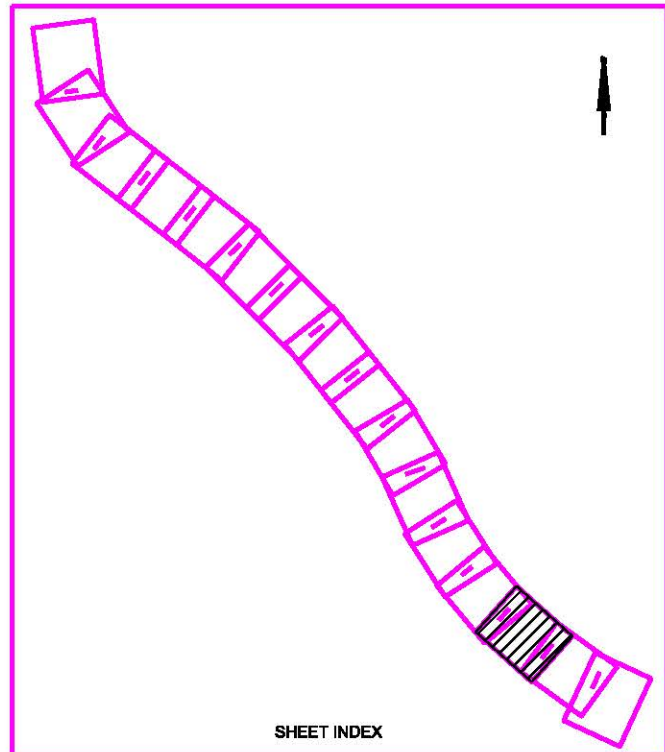
G*17'

R*18'

NORTHWEST CHANNEL
(Approximate Centerline)

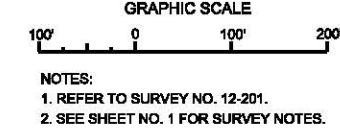
MATCHLINE SHEET NO. 05

MATCHLINE SHEET NO. 03



SHEET INDEX

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-17 (09/12)	380,692	85,810	24°34'01.81"	81°49'44.03"
LT-18 (02/12)	380,748	82,404	24°33'28.17"	81°49'43.21"

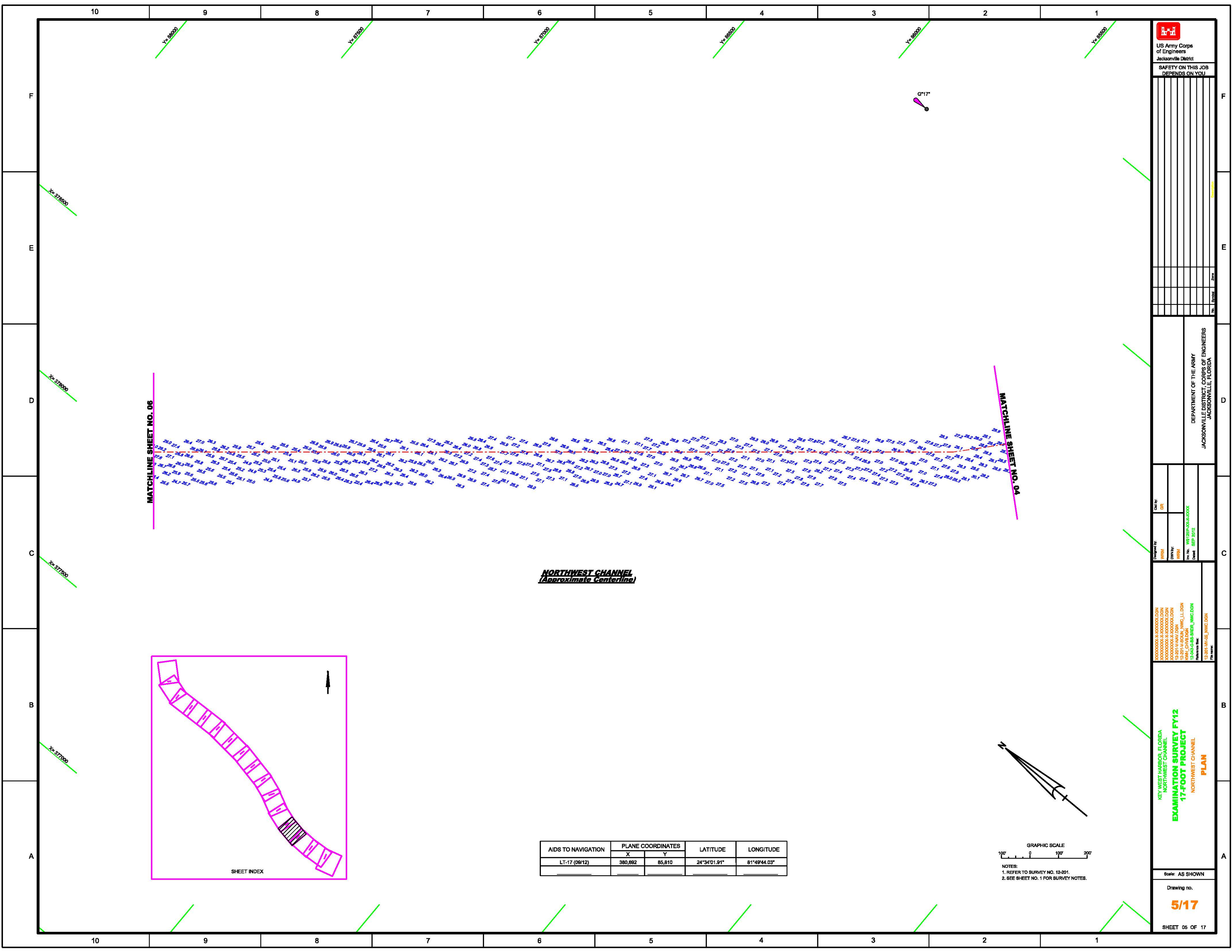


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JACKSONVILLE, FLORIDA

Key West Harbor, Florida
Northwest Channel
EXAMINATION SURVEY FY12
17-FOOT PROJECT
NORTHWEST CHANNEL
PLAN

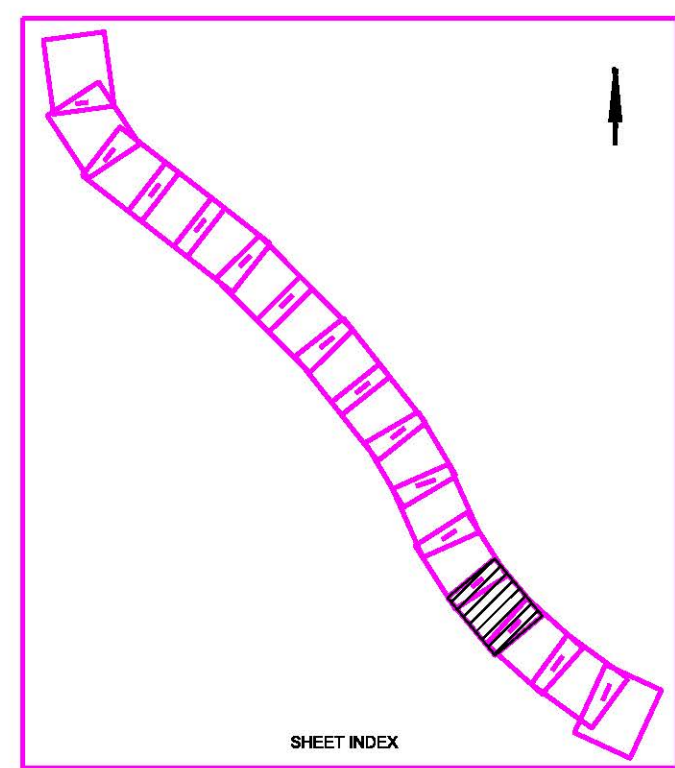
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Drawing no. **4/17**
SHEET 04 OF 17



MATCHLINE SHEET NO. 06

MATCHLINE SHEET NO. 04

NORTHWEST CHANNEL
(Approximate Centerline)



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-17 (08/12)	380,892	85,810	24°34'01.91"	81°49'44.03"

GRAPHIC SCALE
100' 0 100' 200'
NOTES:
1. REFER TO SURVEY NO. 12-201.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Designed by: WRM
 Drawn by: WRM
 For Use: 12-201-NAV-DGN
 Date: SEP 2012

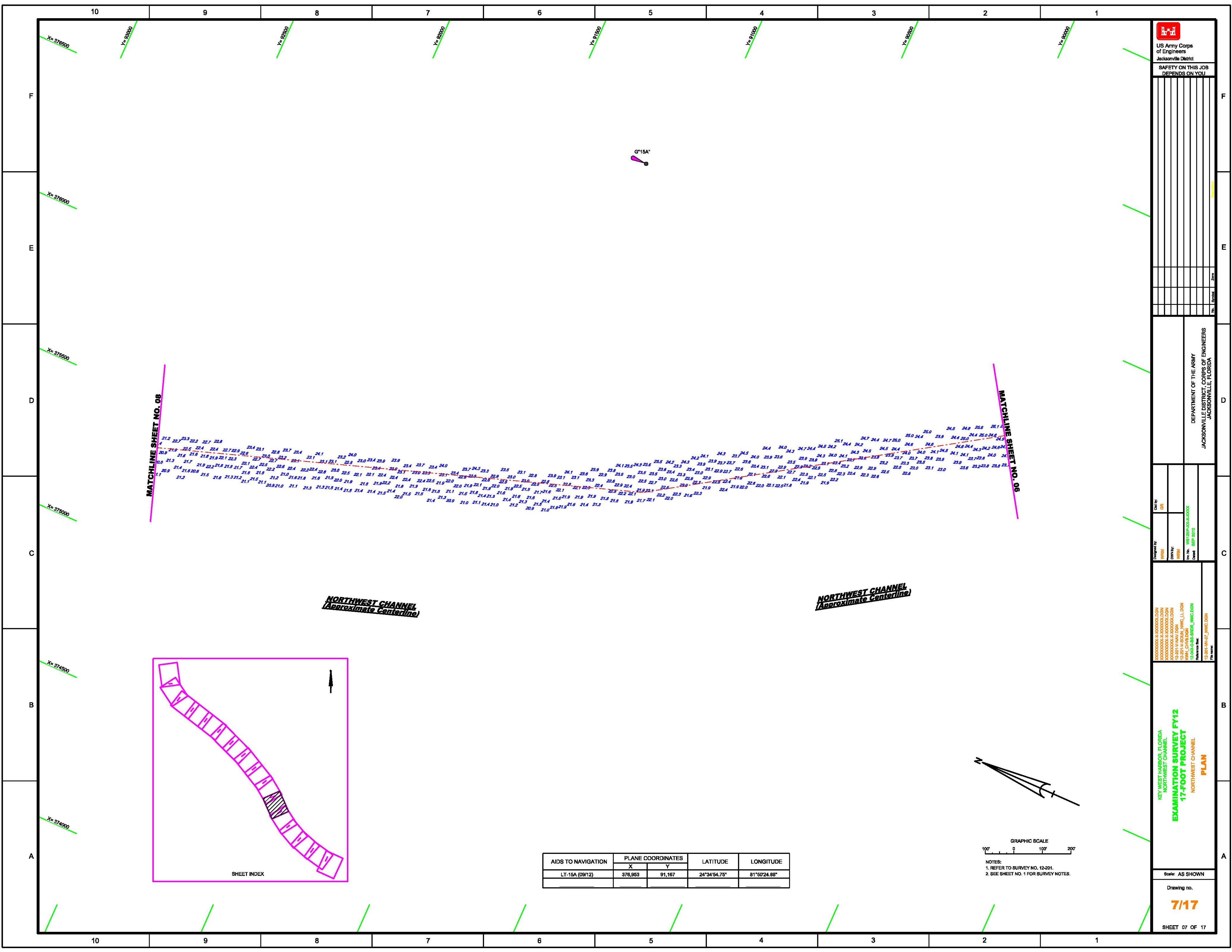
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 12-201-NAV-DGN
 12-201-NAV-DGN
 12-201-NAV-DGN

EXAMINATION SURVEY FY12
17-FOOT PROJECT
PLAN

Scale: AS SHOWN

Drawing no.
5/17

SHEET 05 OF 17

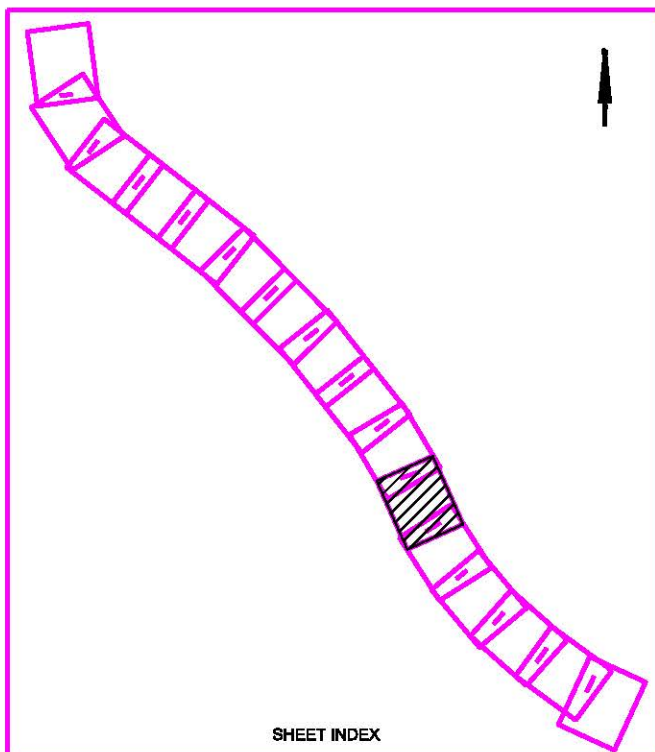


MATCHLINE SHEET NO. 08

MATCHLINE SHEET NO. 08

NORTHWEST CHANNEL
(Approximate Centerline)

NORTHWEST CHANNEL
(Approximate Centerline)



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-15A (09/12)	376,953	91,167	24°34'54.75"	81°50'24.88"



NOTES:
1. REFER TO SURVEY NO. 12-201.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Scale: AS SHOWN

7117

SHEET 07 OF 17

KEY WEST HARBOR, FLORIDA
NORTHWEST CHANNEL
**EXAMINATION SURVEY FY12
17-FOOT PROJECT**
NORTHWEST CHANNEL
PLAN

Drawn by: JMW
Checked: JMW
Date: 08/20/12

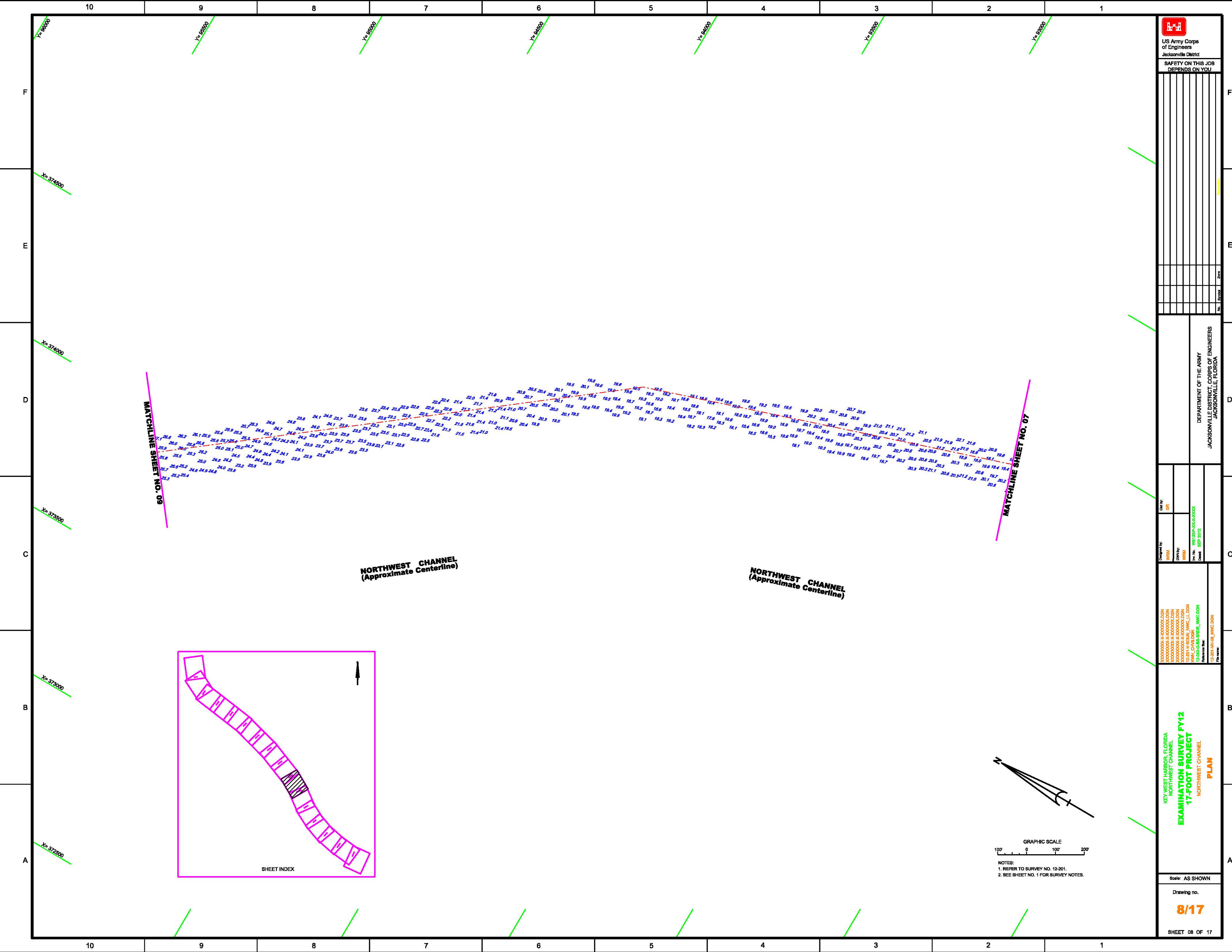
Designed by: JMW
Checked: JMW
Date: 08/20/12

Drawn by: JMW
Checked: JMW
Date: 08/20/12

Drawn by: JMW
Checked: JMW
Date: 08/20/12

13-2011-11-07_JMW.CAD

13-2011-11-07_JMW.CAD

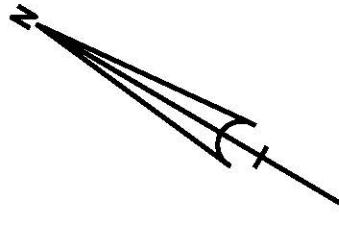
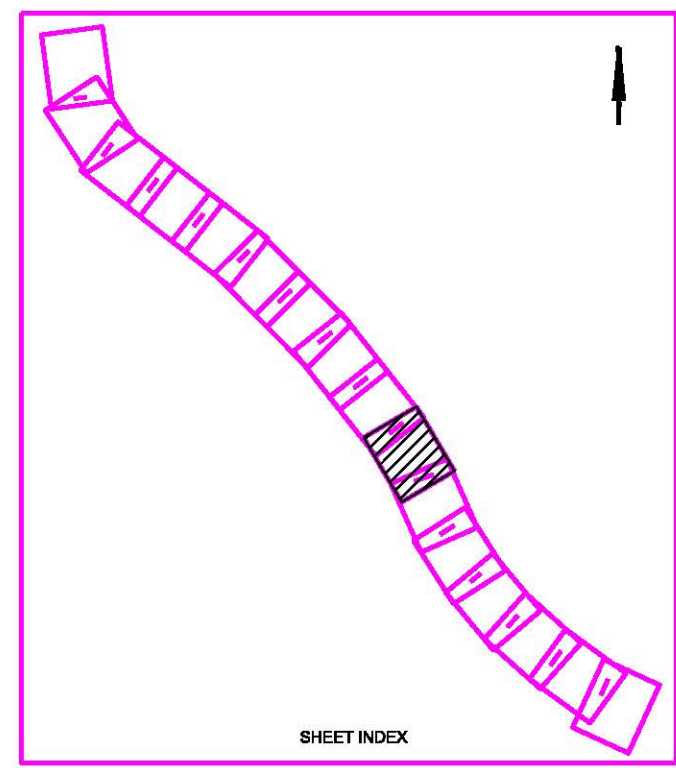


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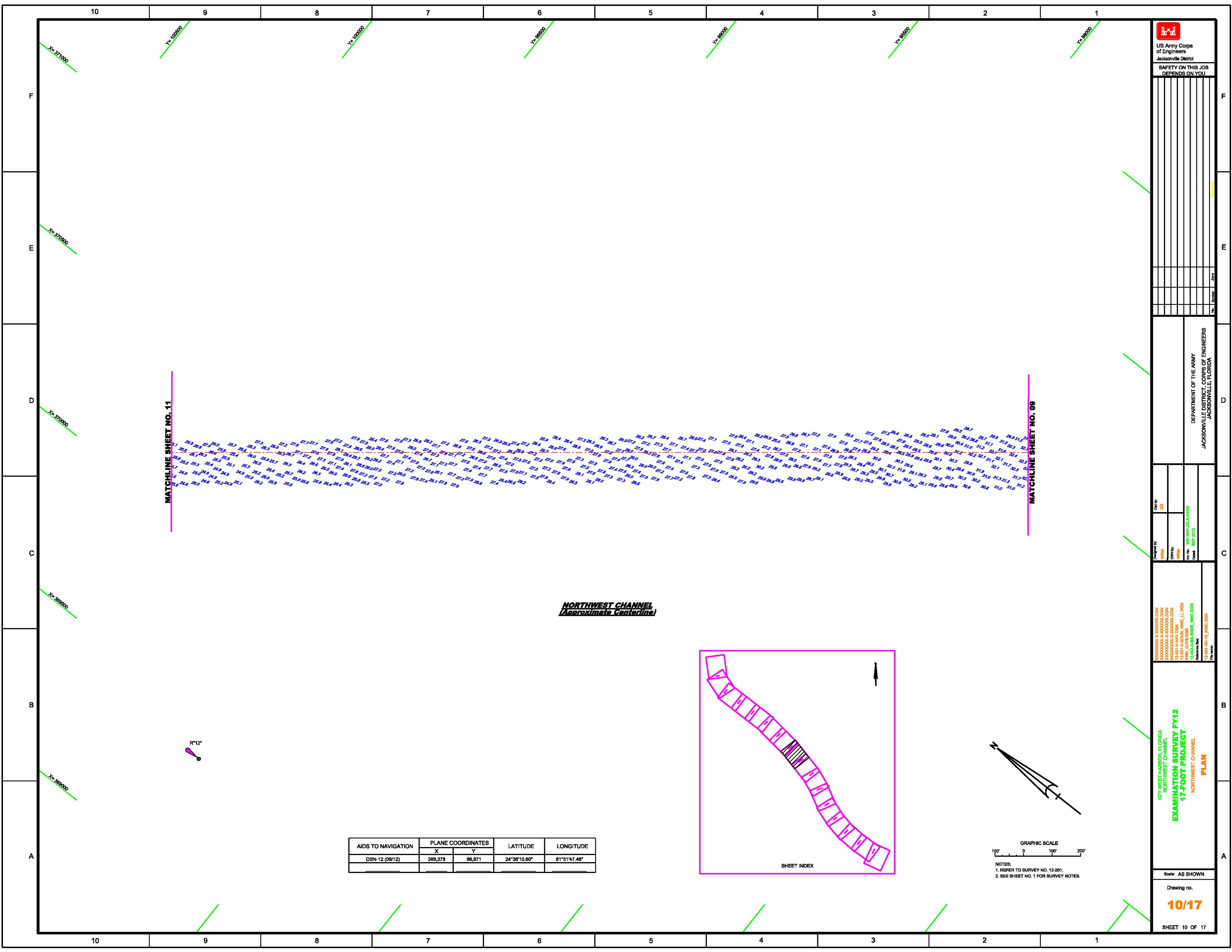
MATCHLINE SHEET NO. 07

NORTHWEST CHANNEL
(Approximate Centerline)

NORTHWEST CHANNEL
(Approximate Centerline)



 US Army Corps of Engineers Jacksonville District SAFETY ON THIS JOB DEPENDS ON YOU	
Title: _____ Date: _____ Scale: _____ Author: _____ Check: _____	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS JACKSONVILLE, FLORIDA
Call by: DR Drawn by: WM For Use: 12-201-17-17-08-JWVC.DGN Date: SEP 2012	000000000-0-0000000.DGN 000000000-0-0000000.DGN 000000000-0-0000000.DGN 000000000-0-0000000.DGN 000000000-0-0000000.DGN 000000000-0-0000000.DGN 12-201-17-17-08-JWVC.DGN 12-201-17-17-08-JWVC.DGN
KEY WEST HARBOR, FLORIDA NORTHWEST CHANNEL EXAMINATION SURVEY FY12 17-FOOT PROJECT NORTHWEST CHANNEL PLAN	
Scale: AS SHOWN Drawing no. 8/17	
SHEET 08 OF 17	



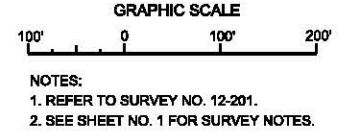
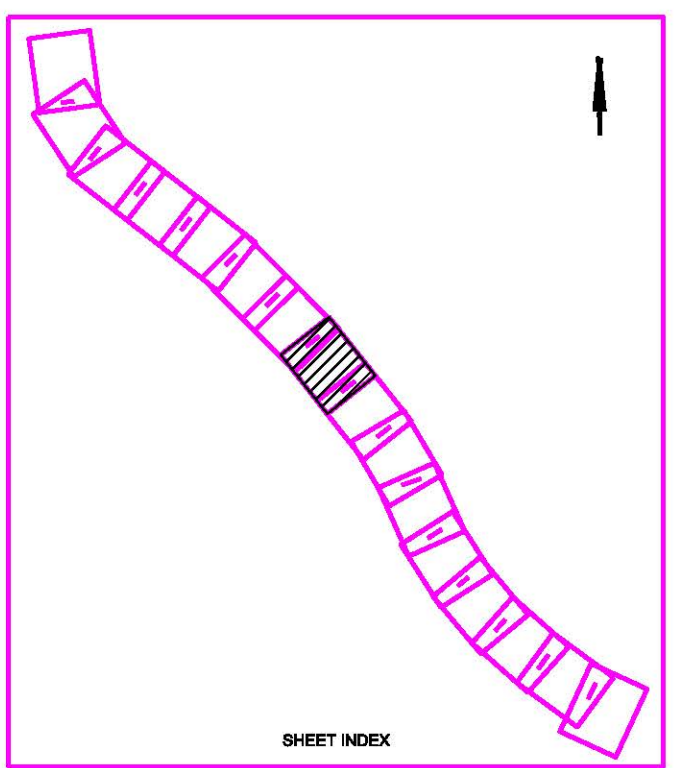
MATCHLINE SHEET NO. 11


MATCHLINE SHEET NO. 09

NORTHWEST CHANNEL
(Approximate Centerline)

R"12"

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-12 (09/12)	389,378	98,871	24°38'10.60"	81°51'47.46"





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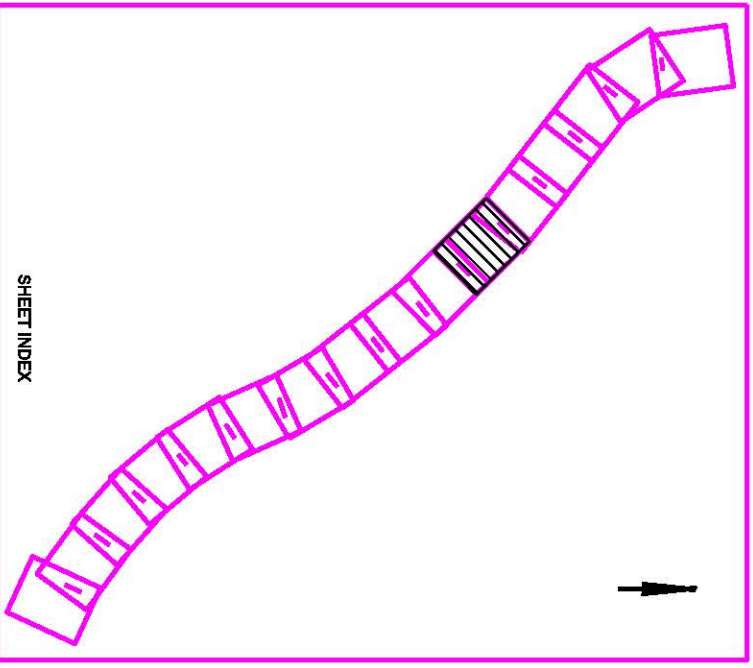
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Call by: DR
Designed by: WRM
Drawn by: WRM
For Use: 12-201-NAV-DGN
Check: SEP 2012

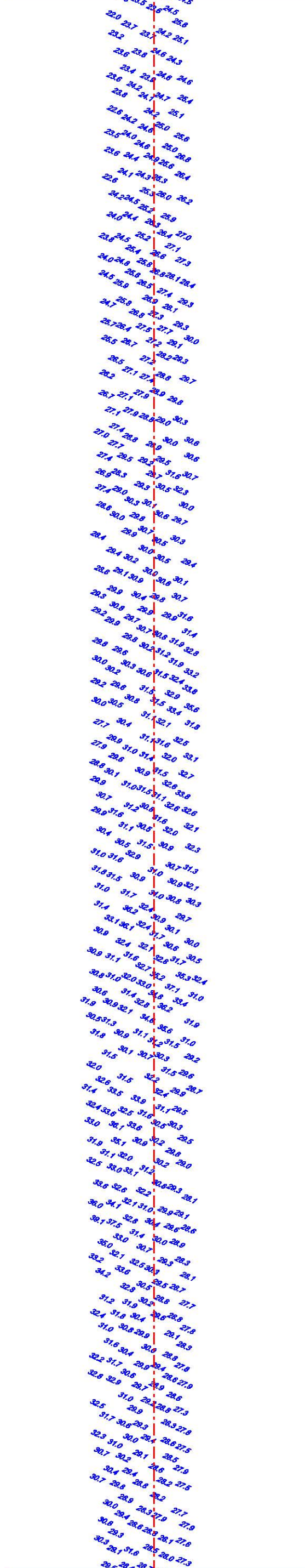
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WAL_CAD/DGN
12-201-NAV-DGN
12-201-NAV-DGN

KEY WEST HARBOR, FLORIDA
NORTHWEST CHANNEL
EXAMINATION SURVEY FY12
17-FOOT PROJECT
NORTHWEST CHANNEL
PLAN

Scale: AS SHOWN
Drawing no.
10/17
SHEET 10 OF 17

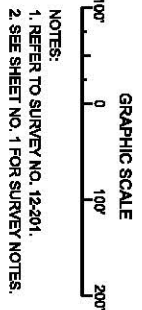


MATCHLINE SHEET NO. 13



NORTHWEST CHANNEL
(Approximate Centerline)

MATCHLINE SHEET NO. 11



KEY WEST HARBOR, FLORIDA
NORTHWEST CHANNEL
**EXAMINATION SURVEY FY12
17-FOOT PROJECT**
NORTHWEST CHANNEL
PLAN

00000000-X-000000.DGN
00000000-X-000000.DGN
00000000-X-000000.DGN
00000000-X-000000.DGN
12-201-VH-12_NWC_LL.DGN
KWL_CHV8.DGN
12-043-G-88-BRD-NWC.DGN
Reference Base:
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File name:

Designed by:	GR
DWN by:	GR
Rev No:	WS12SP-00-X-0000
Date:	SEP 2012

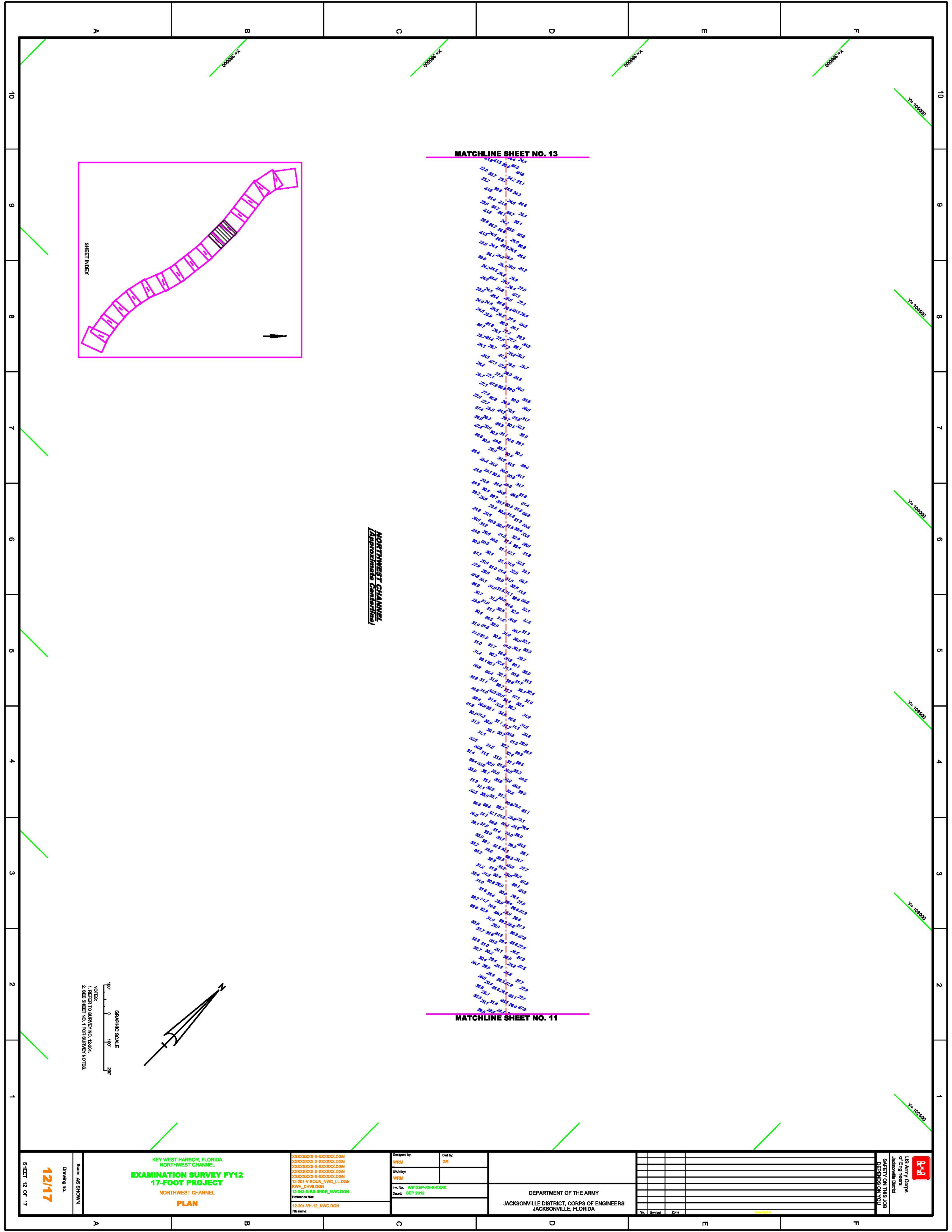
DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

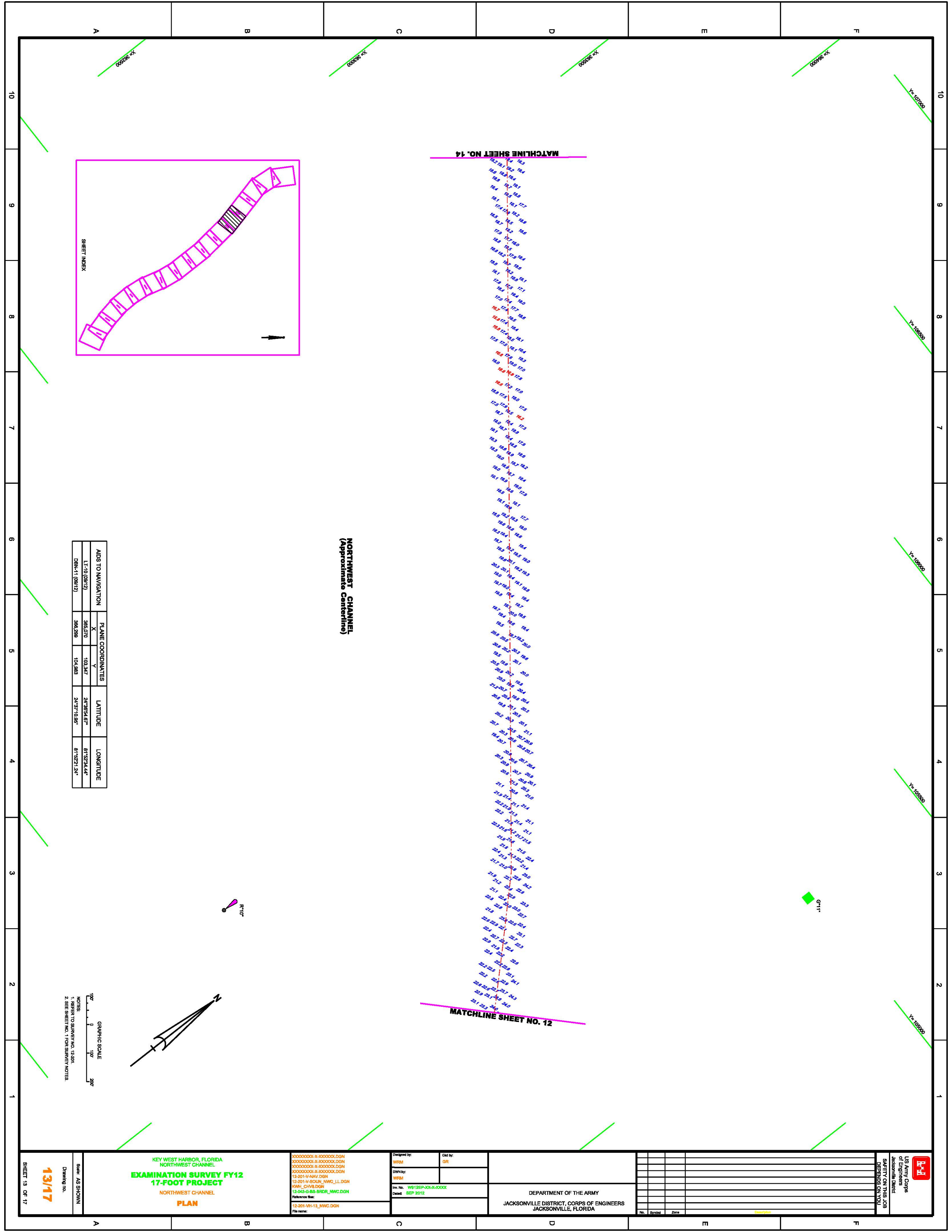
No.	Symbol	Zone

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Jacksonville District
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DEPENDS ON YOU

Drawing no. 12/17

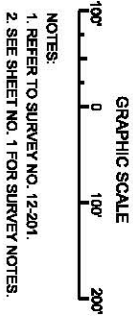
SHEET 12 OF 17



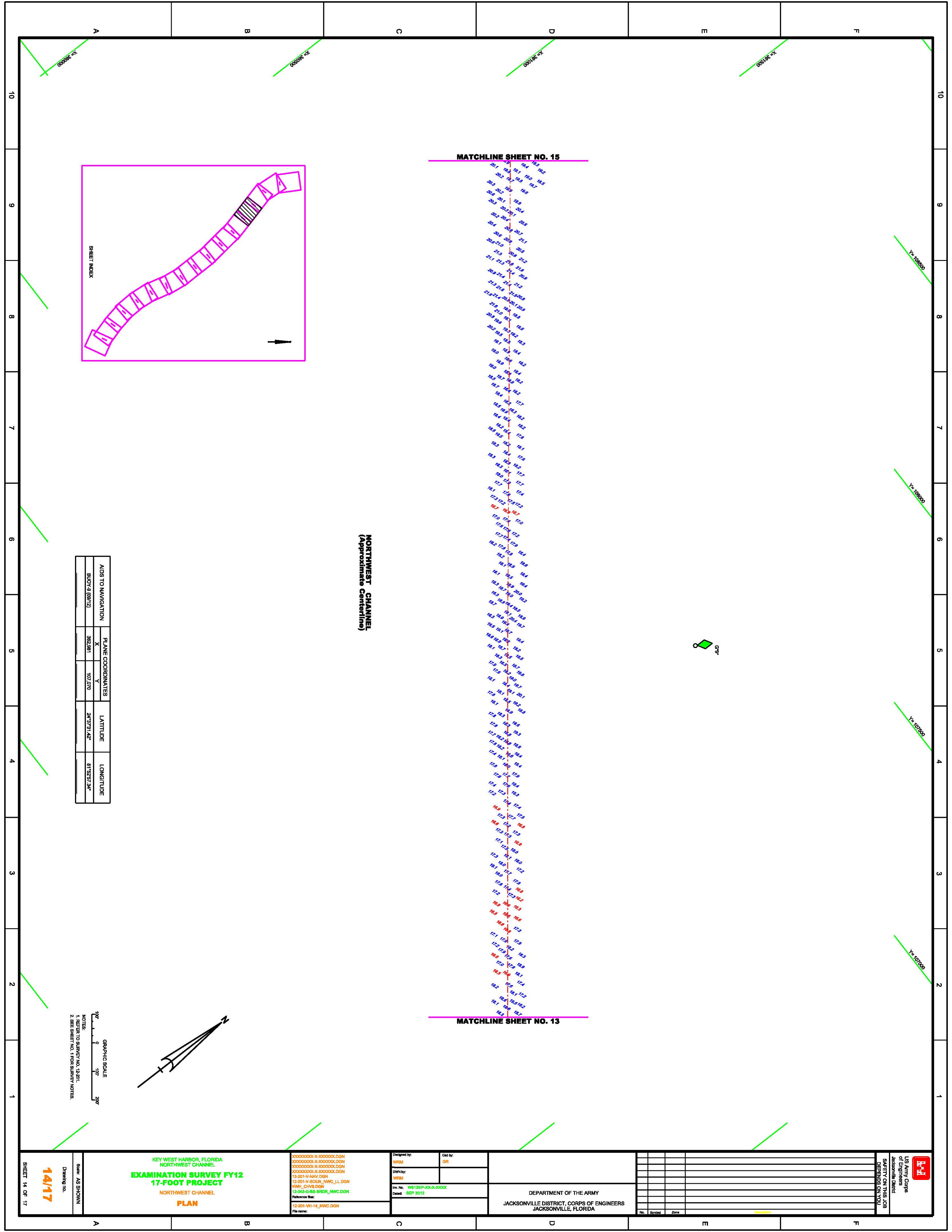


NORTHWEST CHANNEL
(Approximate Centerline)

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-10 (09/12)	385,070	103,347	24°38'54.87"	81°52'34.44"
DBL-11 (09/12)	386,298	104,883	24°37'10.85"	81°52'21.24"



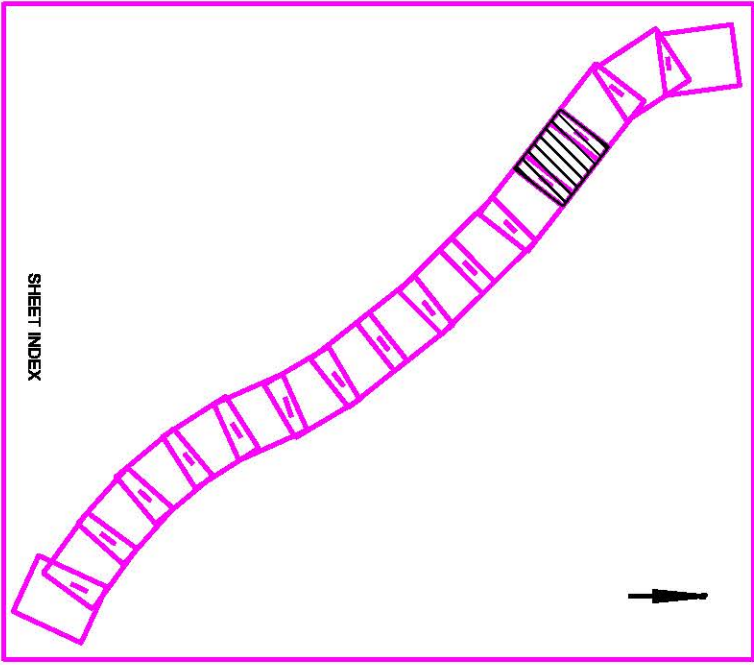
KEY WEST HARBOR, FLORIDA NORTHWEST CHANNEL EXAMINATION SURVEY FY12 17-FOOT PROJECT NORTHWEST CHANNEL PLAN	00000000-X-000000.DGN 00000000-X-000000.DGN 00000000-X-000000.DGN 00000000-X-000000.DGN 12-201-V-NAV.DGN 12-201-V-SOUND_NWC_LL.DGN KWL_CHV8.DGN 12-043-G-BB-BRDW_NWC.DGN Reference Base: 12-201-VH-13_NWC.DGN File name:	Designed by: WRM DWN by: WRM Inv No: WS12SP-30K-X-0000 Date: SEP 2012	Ckd by: GR	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	US Army Corps of Engineers Jacksonville District SAFETY ON THIS JOB DEPENDS ON YOU
	Drawing no. 13/17 SHEET 13 OF 17	State: AS SHOWN	No. Symbol Zone	No. Symbol Zone	No. Symbol Zone



MATCHLINE SHEET NO. 15

MATCHLINE SHEET NO. 13

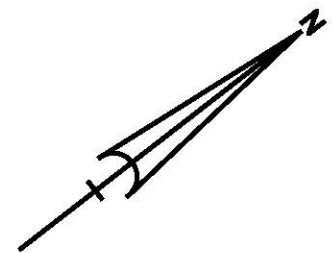
NORTHWEST CHANNEL
(Approximate Centerline)



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
BUOY 9 (09/12)	392.981	107.070	24°37'31.42"	81°52'57.24"

GRAPHIC SCALE
0 200 400
feet

NOTES:
1. REFER TO SURVEY NO. 13201.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



00000000-X-000000.DGN
00000000-X-000000.DGN
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13-2011-V-SOUND_NWC_LL.DGN
KWHL_CHV8.DGN
12-043-G-88-BRDW_NWC.DGN
Reference Base:
12-2011-VH-14_NWC.DGN
File name:

Designed by: WFM
Checked by: GR
DWG by: WFM
Rev No: W8126P-306-X-0000
Date: SEP 2012

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

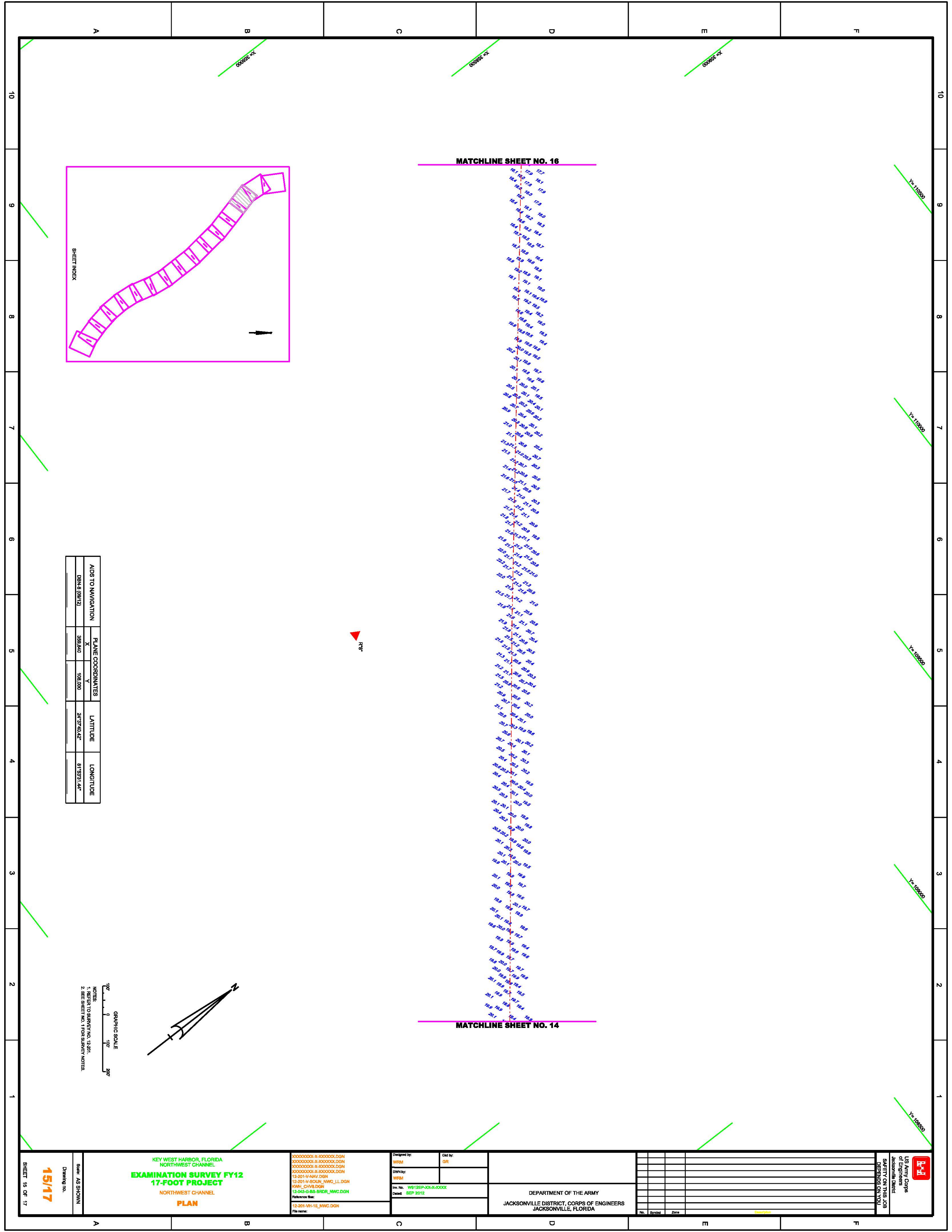
No.	Symbol	Zone

US Army Corps of Engineers
Jacksonville District
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DEPENDS ON YOU

SHEET 14 OF 17
14/17

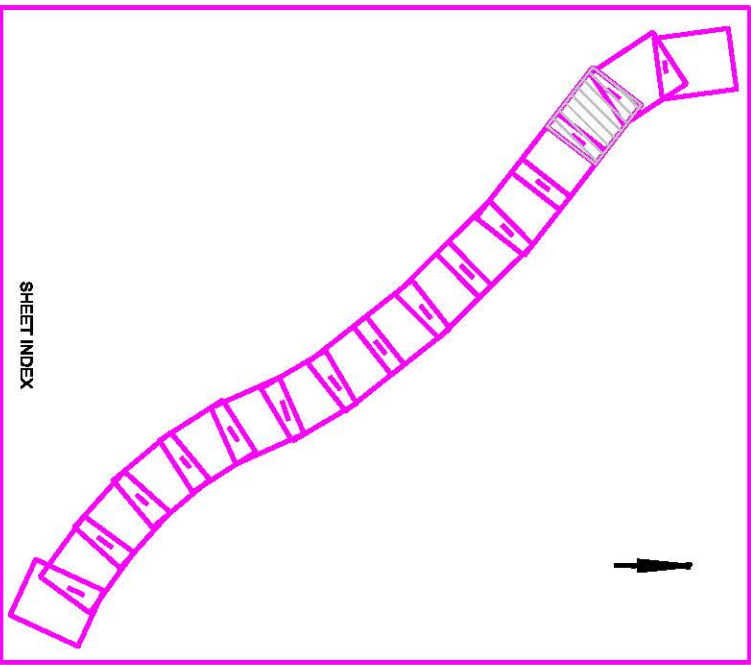
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Scale: AS SHOWN

KEY WEST HARBOR, FLORIDA
NORTHWEST CHANNEL
EXAMINATION SURVEY FY12
17-FOOT PROJECT
NORTHWEST CHANNEL
PLAN



MATCHLINE SHEET NO. 16

MATCHLINE SHEET NO. 14



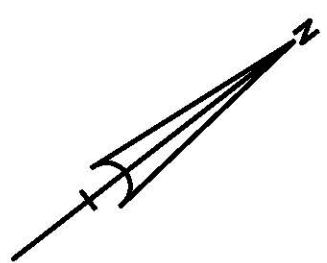
SHEET INDEX

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DM-4 (09/12)	389,640	108,000	24°37'40.42"	81°53'1.44"



RFB

GRAPHIC SCALE
 100' 0' 100' 200'
 NOTES:
 1. REFER TO SURVEY NO. 12201
 2. SEE SHEET NO. 17 FOR SURVEY NOTES.



KEY WEST HARBOR, FLORIDA
 NORTHWEST CHANNEL
**EXAMINATION SURVEY FY12
 17-FOOT PROJECT**
 NORTHWEST CHANNEL
PLAN

00000000-X-000000.DGN
 00000000-X-000000.DGN
 00000000-X-000000.DGN
 12-201-V-NAV.DGN
 12-201-V-SOUND_NWC_LL.DGN
 KWL_CHVB.DGN
 12-043-G-BB-BRDR_NWC.DGN
 Reference Base:
 12-201-VH-15_NWC.DGN
 File name:

Designed by: WFM
 DWN by: WFM
 Rev No: WS12SP-00X-0000X
 Descr: SEP 2012

Clad by: GR

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

No.	Symbol	Zone

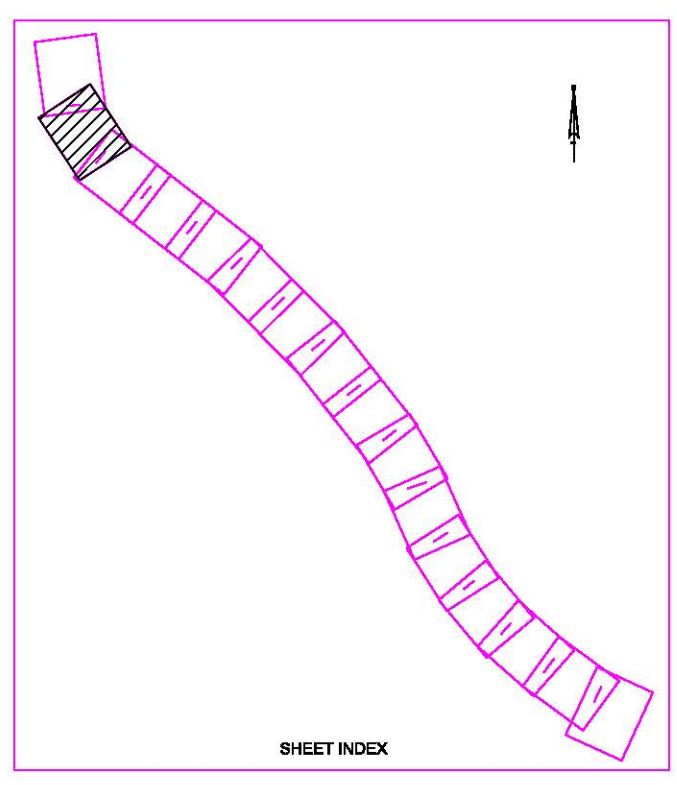
US Army Corps of Engineers Jacksonville District
SAFETY ON THIS JOB DEPENDS ON YOU

MATCHLINE SHEET NO. 17

MATCHLINE SHEET NO. 15

NORTHWEST CHANNEL
(Approximate Centerline)

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (09/12)	357,940	111,189	24°38'11.89"	81°53'52.26"
BUOY-4 (09/12)	357,381	110,885	24°38'06.86"	81°53'58.28"
LT. BUOY-5 (09/12)	359,010	109,831	24°37'58.51"	81°53'40.56"
LT-6 (08/12)	358,208	109,573	24°37'55.90"	81°53'49.24"



NOTES:
1. REFER TO SURVEY NO. 12-201.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

