

GIWW - MANATEE COUNTY, FLORIDA CUTS M-1 THRU M-15 EXAMINATION SURVEY FY16 9-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 16-034.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "SPC-FL-WEST-2010-12-07.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 WEST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS FOR POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:
REFERENCE BASE LOCATED AT "872 6282 A TIDAL" (PID: AG7391)
REFERENCE BASE LOCATED AT "GIS 106" (PID: AG9211)
8. 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 GAGE SITES SPECIFIED BELOW:
NOAA TIDAL STATION 872 6282 A TIDAL FOR CUTS M9 THRU M15 (PID: AG7391)
NOAA TIDAL STATION 872 6217 TIDAL 1 FOR CUTS M1 THRU M-8 (PID: AG2000)
9. VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTIBEAM SIDESCAN SONAR. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
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 13.

VESSEL	DATE OF SURVEY	CUT
SB-44	27 APR 2016	M9 THRU M15
SB-44	28 APR 2016	M1 THRU M8

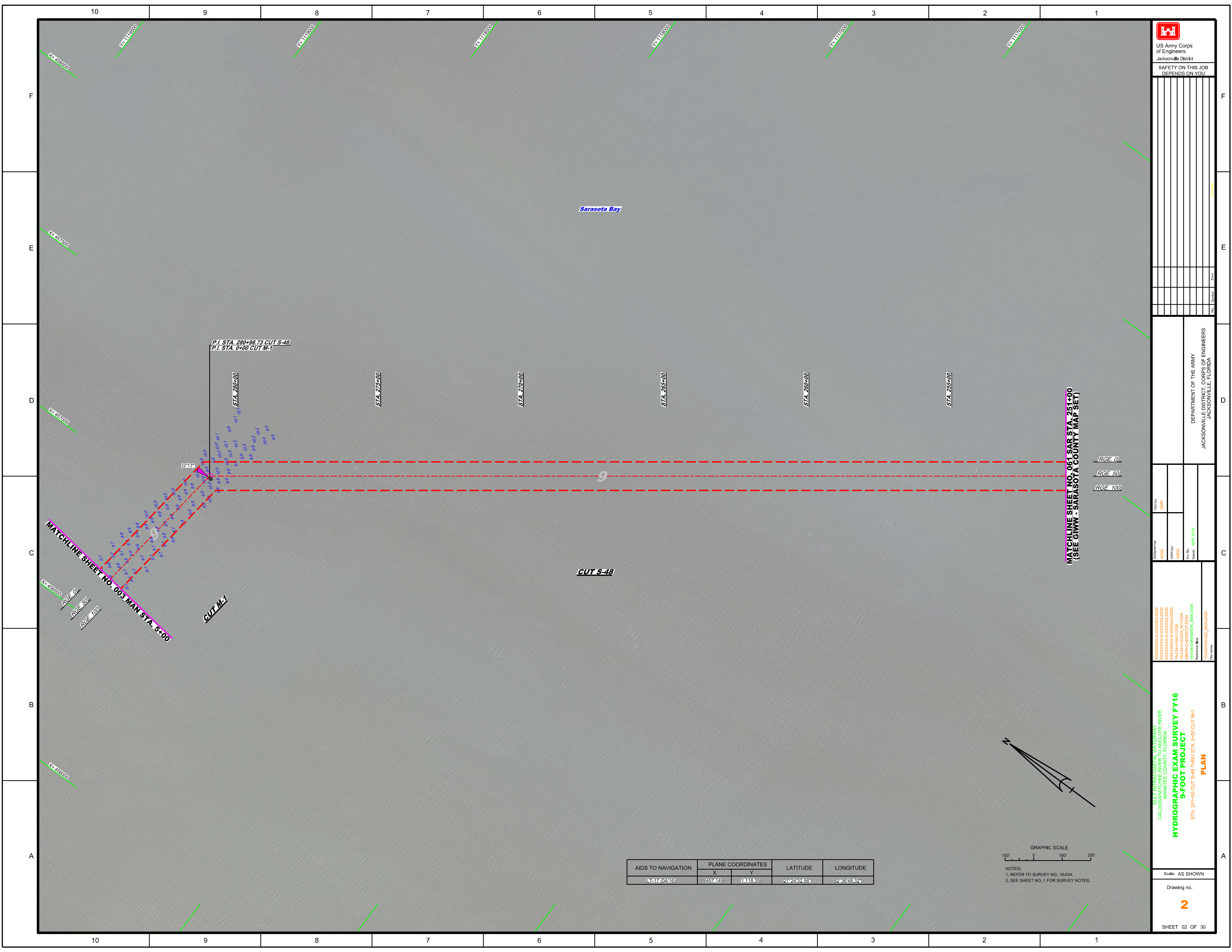
LEGEND	
	MONUMENT
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

US Army Corps of Engineers
Jacksonville District
SAFETY ON THIS JOB
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GULF INTRACOASTAL WATERWAY TO THE RIVER
 CALOCSA
 MANATEE COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT**
 INDEX, LOCATION AND VICINITY
MAP

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

Scale: AS SHOWN
 Drawing no. **1**
 SHEET 01 OF 30



Sarasota Bay

CUT S-48

P.I. STA. 280+98.73 CUT S-48
P.I. STA. 0+00 CUT M-1

STA. 280+00

STA. 275+00

STA. 270+00

STA. 265+00

STA. 260+00

STA. 255+00

MATCHLINE SHEET NO. 061 SAR STA. 251+00
(SEE GIWW - SARASOTA COUNTY MAP SET)

MATCHLINE SHEET NO. 003 MAN STA. 5+00

CUT M-1

RGE. 0
RGE. 50
RGE. 100



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

Checked by: GHR
Designed by: WRM
Drawn by: WRM
File No.: 16-034
Date: APR 2016

GULF INTRACOSTAL WATERWAY
CALOOSAHOOCHEE RIVER
CALOOSAHOOCHEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
STA. 251+00 CUT S-48 THRU STA. 5+00 CUT M-1
PLAN

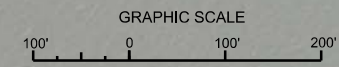
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Drawing no.

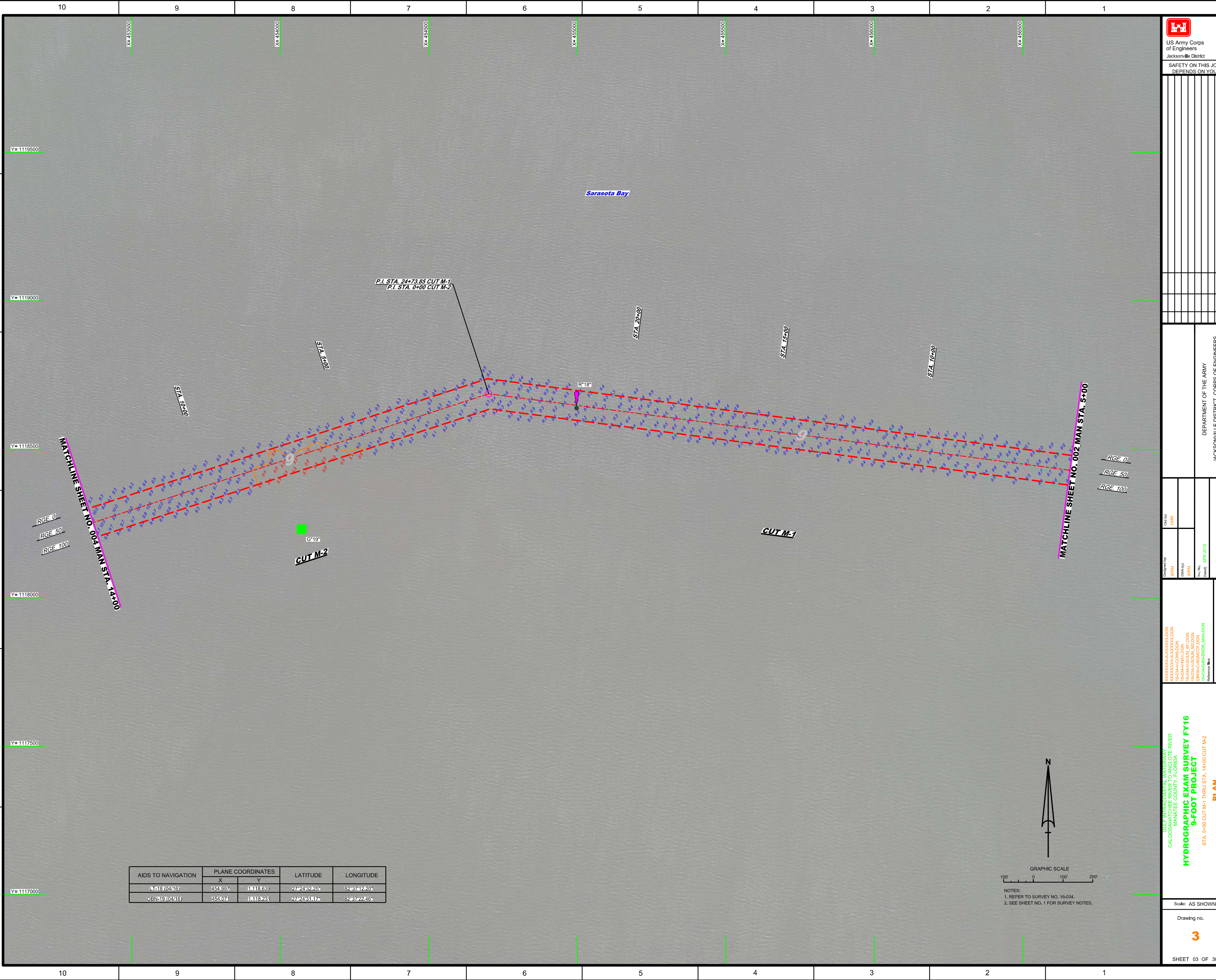
2

SHEET 02 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
16-034(2416)	457449	11118356	27°23'25.6"	82°36'28.92"



NOTES:
1. REFER TO SURVEY NO. 16-034.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



US Army Corps of Engineers
 Jacksonville District
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No.		Symbol		Zone	

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

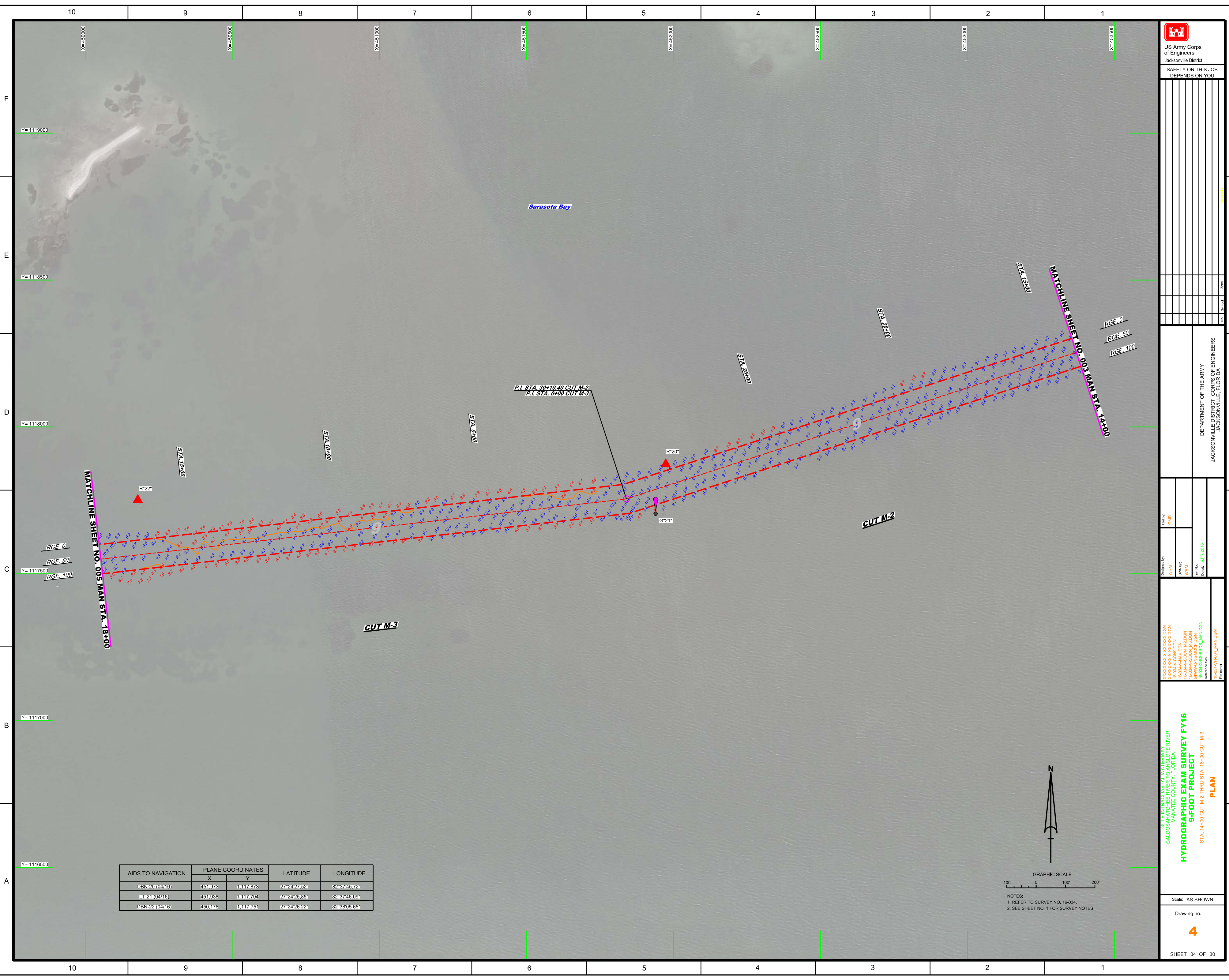
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Designed by	WRM
Drawn by	WRM
File No.	16-034-01
Drawn Date	APR 2016

HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
 STA. 5+00 CUT M-1 THRU STA. 14+00 CUT M-2
PLAN

Scale: AS SHOWN
 Drawing no.
3
 SHEET 03 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
1418 (0416)	454,697	1118,639	27°24'32.5"	82°37'22.2"
DBN-19 (0416)	454,074	1118,231	27°24'31.7"	82°37'22.4"

GRAPHIC SCALE
 100' 0 100 200'
 NOTES:
 1. REFER TO SURVEY NO. 16-034.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



SAFETY ON THIS JOB DEPENDS ON YOU

NO.	SYMBOL	ZONE

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

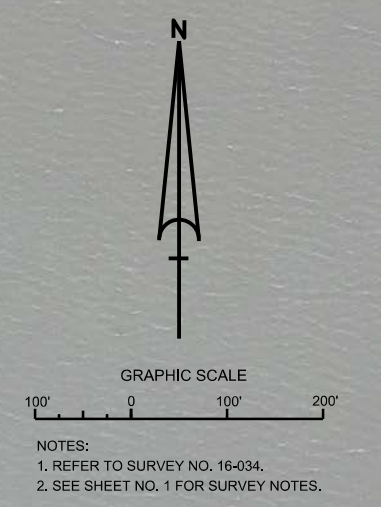
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Date: APR 2016

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GULF INTERCOASTAL WATERWAY
CALOOSAHATCHEE RIVER
WAVATEE COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT**
STA. 14+00 CUT M-2 THRU STA. 18+00 CUT M-3
PLAN

Scale: AS SHOWN
Drawing no. **4**
SHEET 04 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-20 (04/16)	451,973	11117,976	27°24'27.62"	82°37'45.72"
LT-21 (04/16)	451,933	11117,704	27°24'25.85"	82°37'46.09"
DBN-22 (04/16)	450,176	11117,751	27°24'26.22"	82°38'05.65"



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

Checked By: GHR	Designated By: WRM	Drawn By: WRM	File No. 16-034	Disc No. APR 2018
XXXXXXXXXXXXXXXXXXXX.DGN	XXXXXXXXXXXXXXXXXXXX.DGN	XXXXXXXXXXXXXXXXXXXX.DGN	XXXXXXXXXXXXXXXXXXXX.DGN	XXXXXXXXXXXXXXXXXXXX.DGN

GULF INTRACOASTAL WATERWAY
CALOOSAHOOCHEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY16 9-FOOT PROJECT

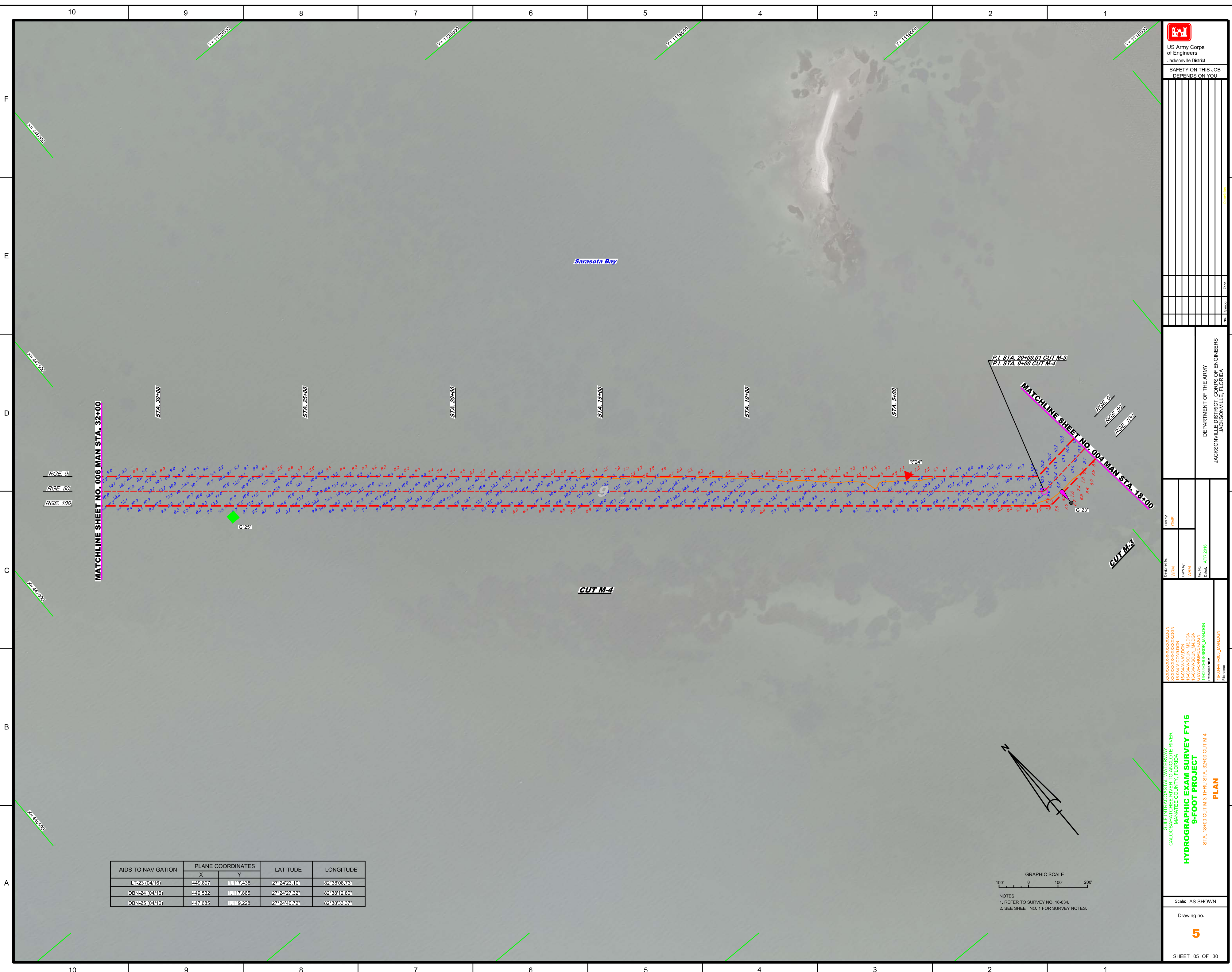
STA. 18+00 CUT M-3 THRU STA. 32+00 CUT M-4

PLAN

Scale: AS SHOWN

Drawing no.
5

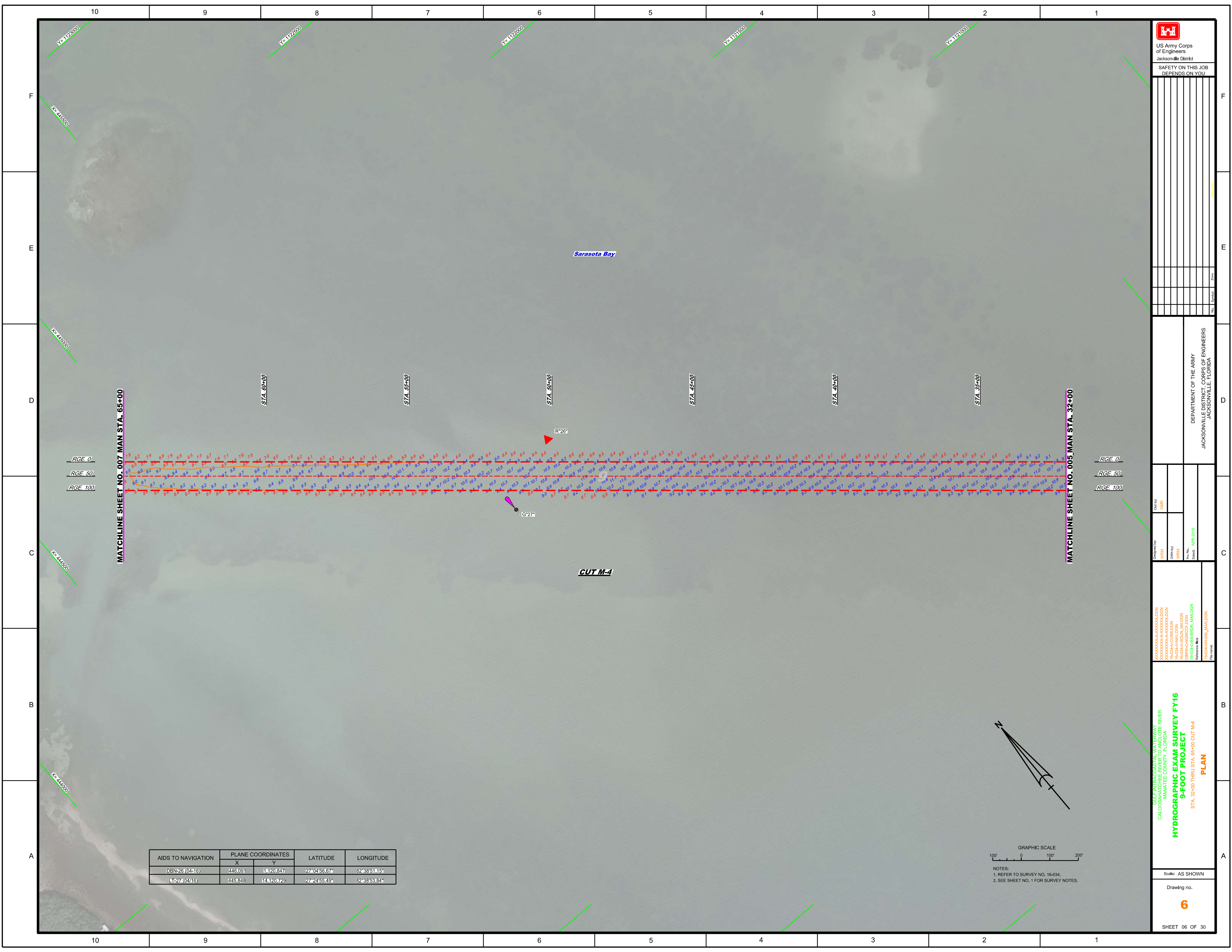
SHEET 05 OF 30



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-23 (0416)	449,897	11117,438	27°24'23.10"	82°38'08.73"
DBN-24 (0416)	449,532	11117,865	27°24'27.82"	82°38'12.80"
DBN-25 (0416)	447,685	11119,226	27°24'40.72"	82°38'33.97"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 16-034,
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-26 (04-16)	446,091	1,120,847	27°04'56.67"	82°38'51.15"
LT-27 (04-16)	445,848	1,141,207.29	27°24'55.49"	82°38'53.84"

GRAPHIC SCALE
 100' 0 100' 200'
 NOTES:
 1. REFER TO SURVEY NO. 16-034.
 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	
Checked by: GHR Drawn by: WRM File Name: 16-034-HYDRO_MAN.DGN Date: APR 2016	Designed by: WRM DWG No: WRM File Name: 16-034-HYDRO_MAN.DGN Date: APR 2016
HYDROGRAPHIC EXAM SURVEY FY16 9-FOOT PROJECT STA. 32+00 THRU STA. 95+00 CUT M-4 PLAN	
Scale: AS SHOWN Drawing no. 6 SHEET 06 OF 30	

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-28 (04/16)	444.181	1122.461	27°25'12.55"	82°39'12.99"
DBN-29 (04/16)	444.180	1122.179	27°25'09.76"	82°39'12.43"
LI-30 (04/16)	442.843	1123.272	27°25'22.49"	82°39'21.35"
DBN-31 (04/16)	442.741	1123.637	27°25'21.16"	82°39'28.54"



US Army Corps
of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

Date	By	Symbol	Zone

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

Checked by: GMR
Designed by: WRM
Drawn by: WRM
File No.: 16-034-0007
Date: APR 2018

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GULF INTERCOASTAL WATERWAY AT THE RIVER
CALOOSAHOOCHEE COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT**
STA. 65+00 THRU STA. 98+00 CUT M-4
PLAN

Scale: AS SHOWN
Drawing no. **7**
SHEET 07 OF 30

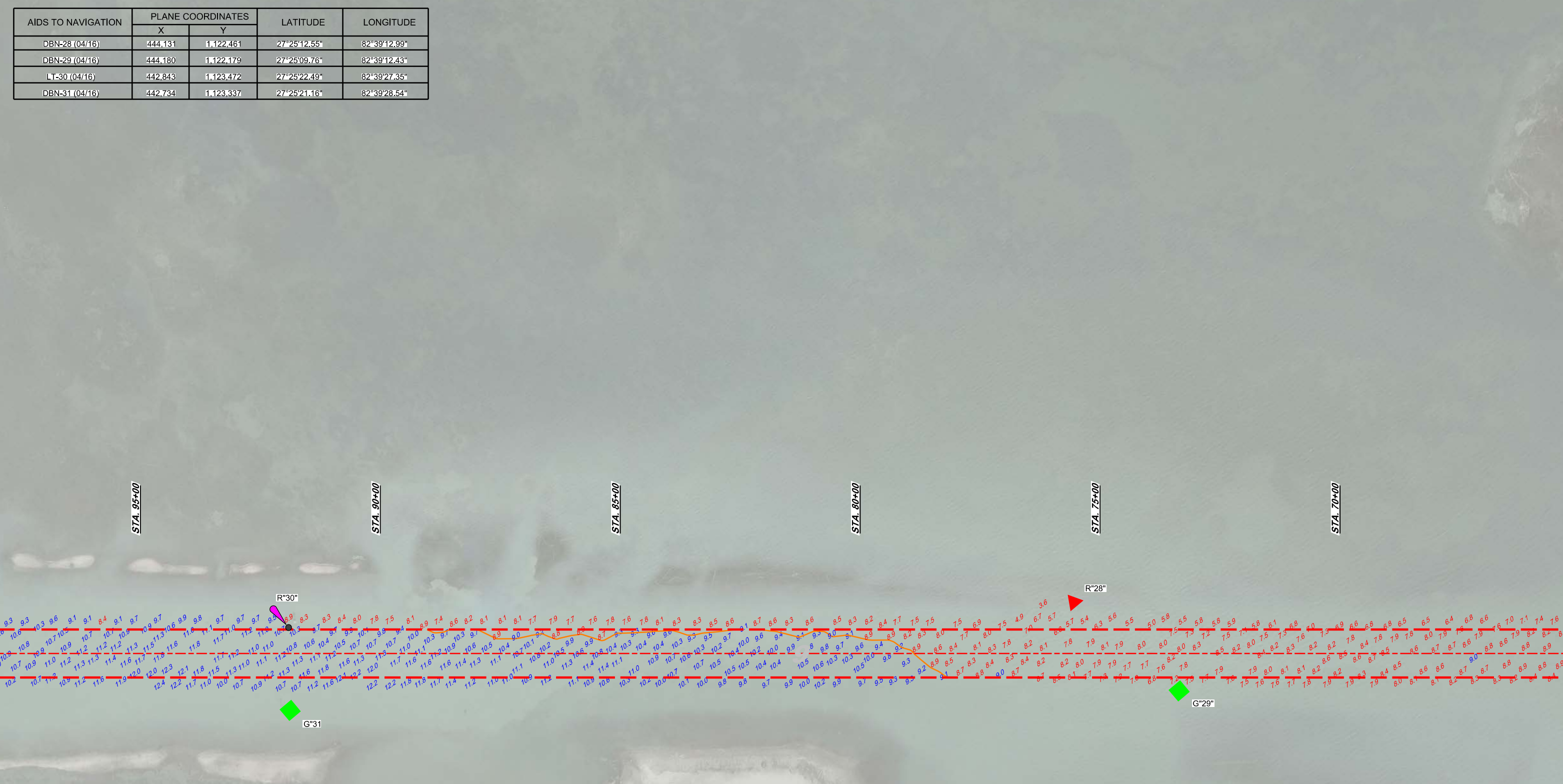
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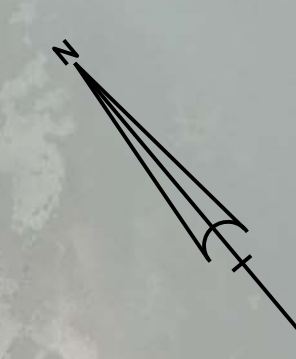
MATCHLINE SHEET NO. 008 MAN STA. 98+00

MATCHLINE SHEET NO. 006 MAN STA. 65+00



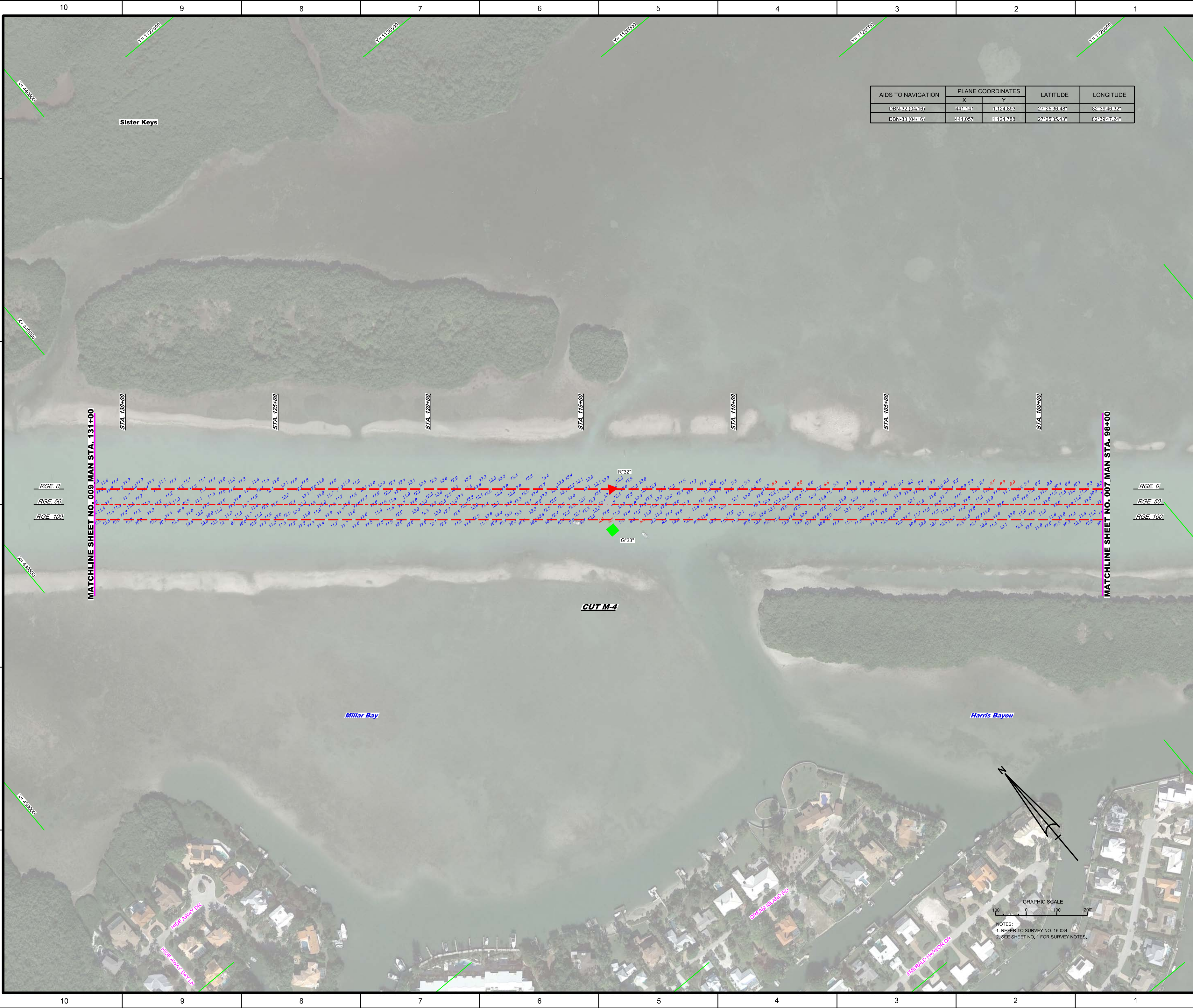
Harris Bayou

CUT M-4



GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 16-034.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-32 (04/16)	441,141	1,124,893	27°25'36.46"	82°39'46.32"
DBN-33 (04/16)	441,057	1,124,788	27°25'35.43"	82°39'47.24"

US Army Corps of Engineers
Jacksonville District

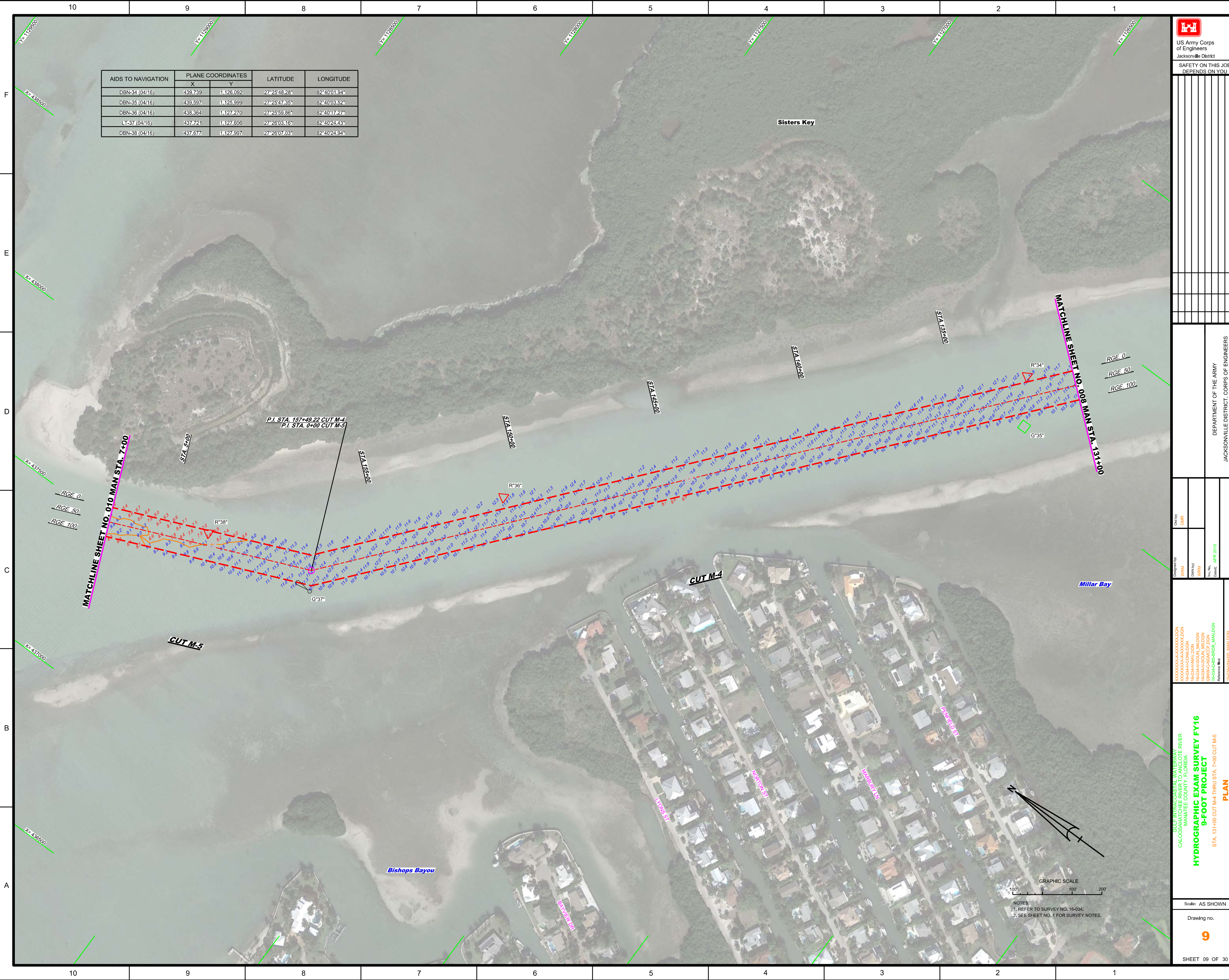
SAFETY ON THIS JOB
DEPENDS ON YOU

DESIGNED BY: WRM DRAWN BY: WRM CHECKED BY: WRM DATE: APR 2018	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA
PROJECT TITLE: GULF INTRACOASTAL WATERWAY CALOOSAHOOCHEE RIVER WADSWORTH COUNTY, FLORIDA	PROJECT NO.: HYDROGRAPHIC EXAM SURVEY FY16 9-FOOT PROJECT STA. 98+00 THRU STA. 131+00 CUT M-4 PLAN
SCALE: AS SHOWN DRAWING NO.: 8	SHEET 08 OF 30

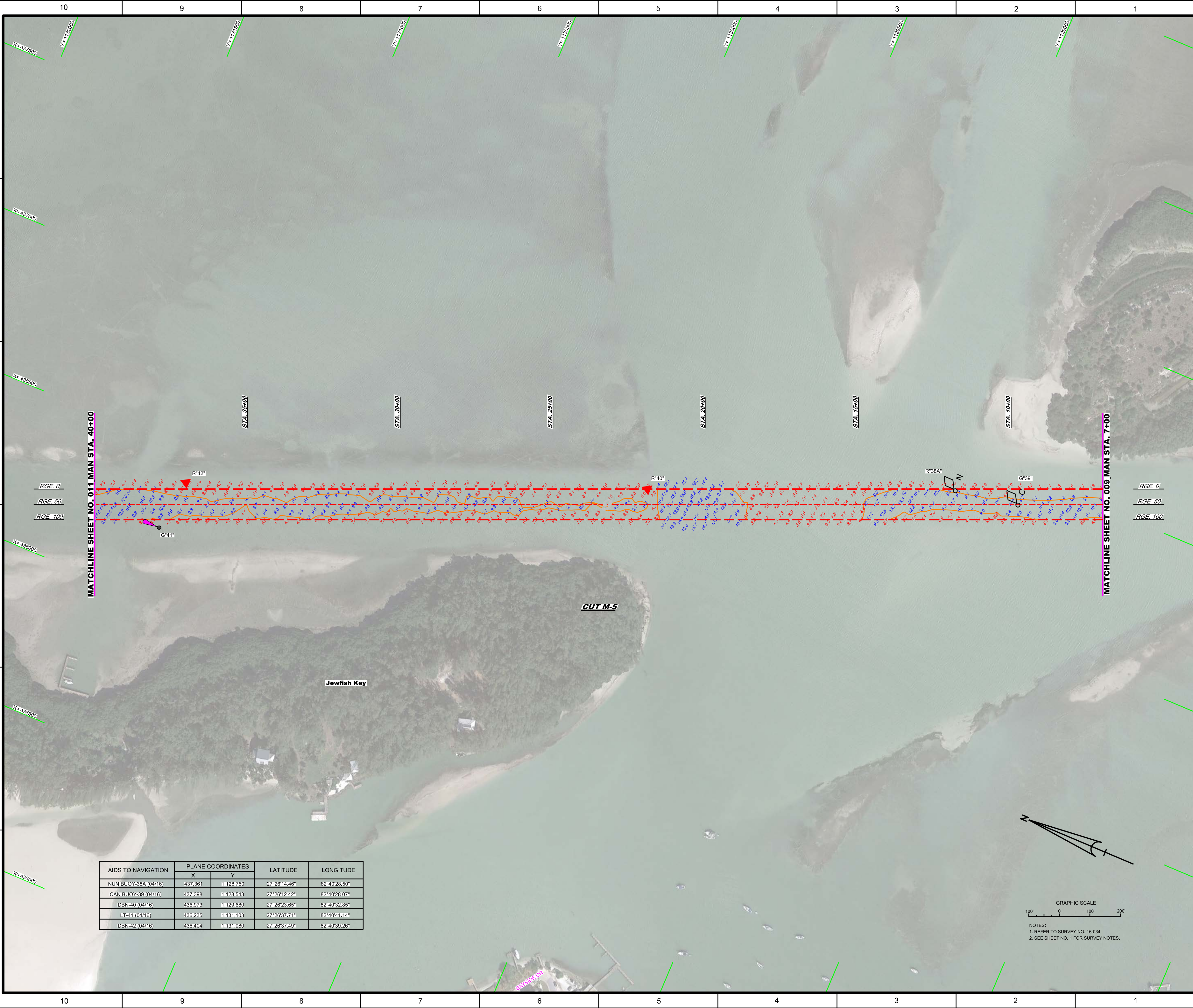
GRAPHIC SCALE
 100' 0' 100' 200'

NOTES:
 1. REFER TO SURVEY NO. 16-034.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

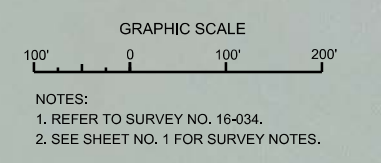
AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-34 (04/16)	439.739	1,126.092	27°25'48.28"	82°40'01.94"
DBN-35 (04/16)	439.597	1,125.999	27°25'47.95"	82°40'03.52"
DBN-36 (04/16)	438.364	1,127.270	27°25'59.86"	82°40'17.27"
LT-37 (04/16)	437.721	1,127.606	27°26'03.16"	82°40'24.43"
DBN-38 (04/16)	437.677	1,127.997	27°26'07.03"	82°40'24.94"




GRAPHIC SCALE
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NOTES:
1. REFER TO SURVEY NO. 16-034.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



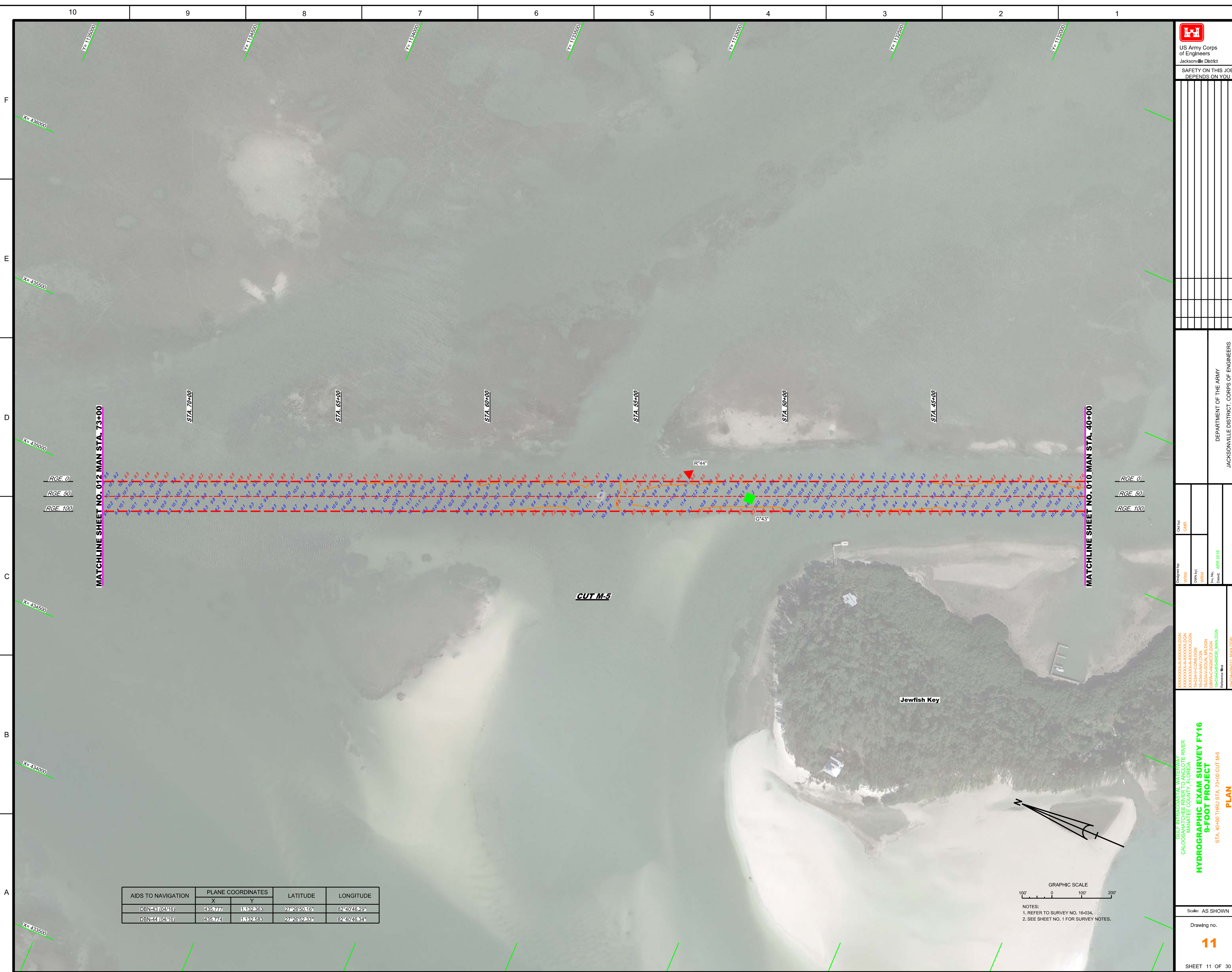
AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
NUN BUOY-38A (04/16)	437,361	1,128,750	27°26'14.46"	82°40'28.50"
CAN BUOY-39 (04/16)	437,398	1,128,543	27°26'12.42"	82°40'28.07"
DBN-40 (04/16)	436,973	1,129,680	27°26'23.65"	82°40'32.85"
LT-41 (04/16)	436,235	1,131,103	27°26'37.71"	82°40'41.14"
DBN-42 (04/16)	436,404	1,131,080	27°26'37.49"	82°40'39.26"





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

DESIGNED BY: WRM DRAWN BY: WRM CHECKED BY: WRM DATE: APR 2016	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA
GULF INTRACOSTAL WATERWAY CALOOSAHOATCHEE RIVER MANATEE COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY16 9-FOOT PROJECT STA. 7+00 THRU STA. 40+00 CUT M-5 PLAN	Scale: AS SHOWN Drawing no. 10 SHEET 10 OF 30



MATCHLINE SHEET NO. 012 MAN STA. 73+00


MATCHLINE SHEET NO. 010 MAN STA. 40+00

RGE. 0
RGE. 50
RGE. 100

RGE. 0
RGE. 50
RGE. 100

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-43 (0416)	435777	1132383	27°26'50.16"	82°40'46.29"
DBN-44 (0416)	435774	1132583	27°26'52.33"	82°40'46.34"

GRAPHIC SCALE
100' 0 100' 200'
NOTES:
1. REFER TO SURVEY NO. 16-034.
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 In. No. Date: APR 2016	Checked by: GHR
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GULF INTRACOASTAL WATERWAY AT THE RIVER
CALOOSA HOUSSE, MANATEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
STA. 40+00 THRU STA. 73+00 CUT M-5
PLAN

Scale: AS SHOWN

Drawing no. 11

SHEET 11 OF 30



US Army Corps of Engineers
Jacksonville District

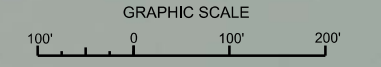
SAFETY ON THIS JOB
DEPENDS ON YOU

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

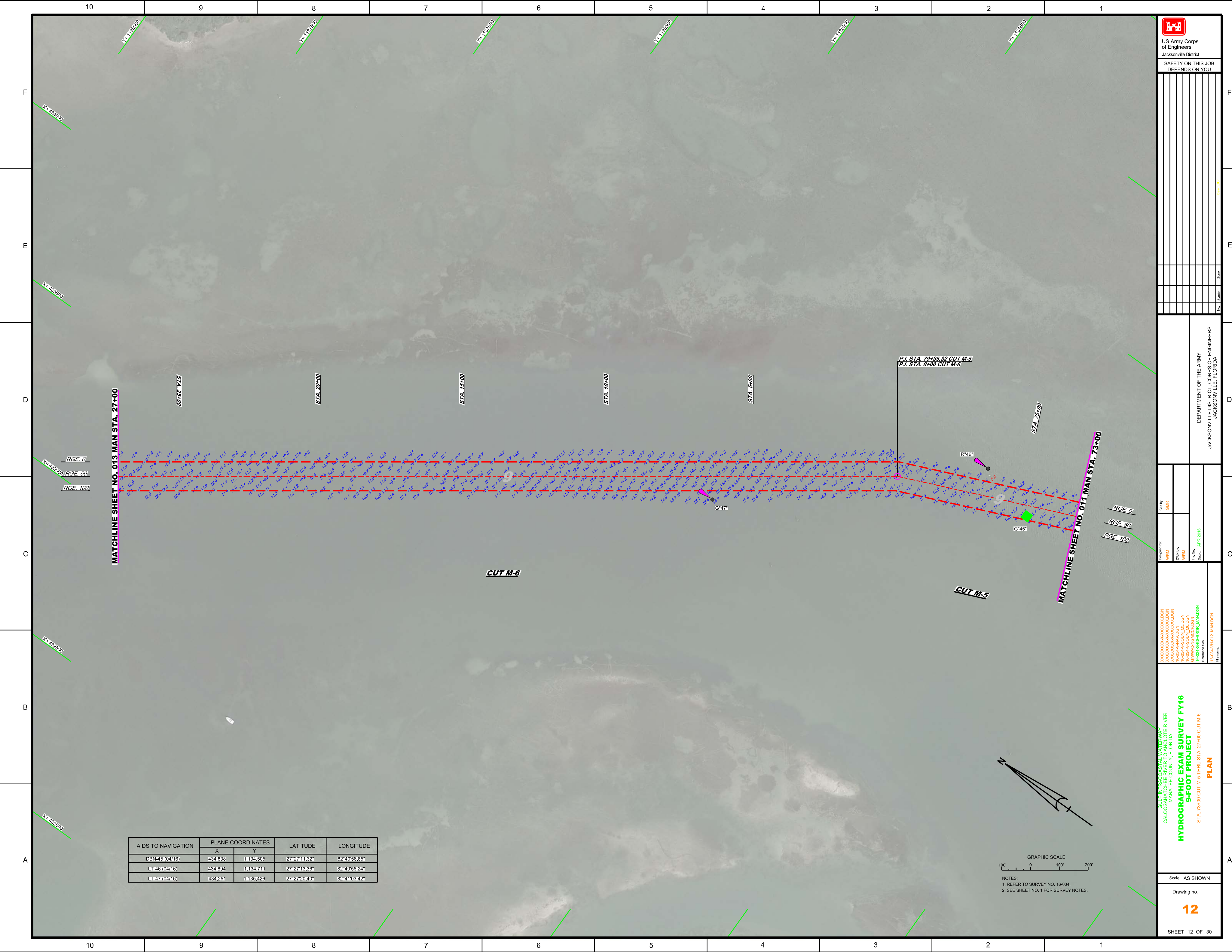
GULF INTERCOASTAL WATERWAY
CALOOCAN CANAL
WAVATEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
STA. 73+00 CUT M-5 THRU STA. 27+00 CUT M-6
PLAN

Scale: AS SHOWN
Drawing no. **12**
SHEET 12 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-45 (04/16)	434.838	1134.505	27°27'11.32"	82°40'56.85"
LT-46 (04/16)	434.884	1134.741	27°27'18.36"	82°40'56.24"
LT-47 (04/16)	434.251	1135.426	27°27'20.40"	82°41'03.42"



NOTES:
1. REFER TO SURVEY NO. 16-034.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



MATCHLINE SHEET NO. 013 MAN STA. 27+00

MATCHLINE SHEET NO. 011 MAN STA. 73+00

CUT M-6

CUT M-5

RGE. 0
RGE. 50
RGE. 100

RGE. 0
RGE. 50
RGE. 100

P.I. STA. 79+35.32 CUT M-5
P.I. STA. 0+00 CUT M-6



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-48 (0416)	432,670	11838,400	27°27'49.76"	82°41'22.27"
DBN-49 (0416)	431,663	11839,021	27°27'55.88"	82°41'29.04"
SIGN (0416)	432,191	11839,879	27°27'59.44"	82°41'28.53"

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

Drawn by: WRM
Checked by: WRM
Date: APR 2016

Scale: AS SHOWN

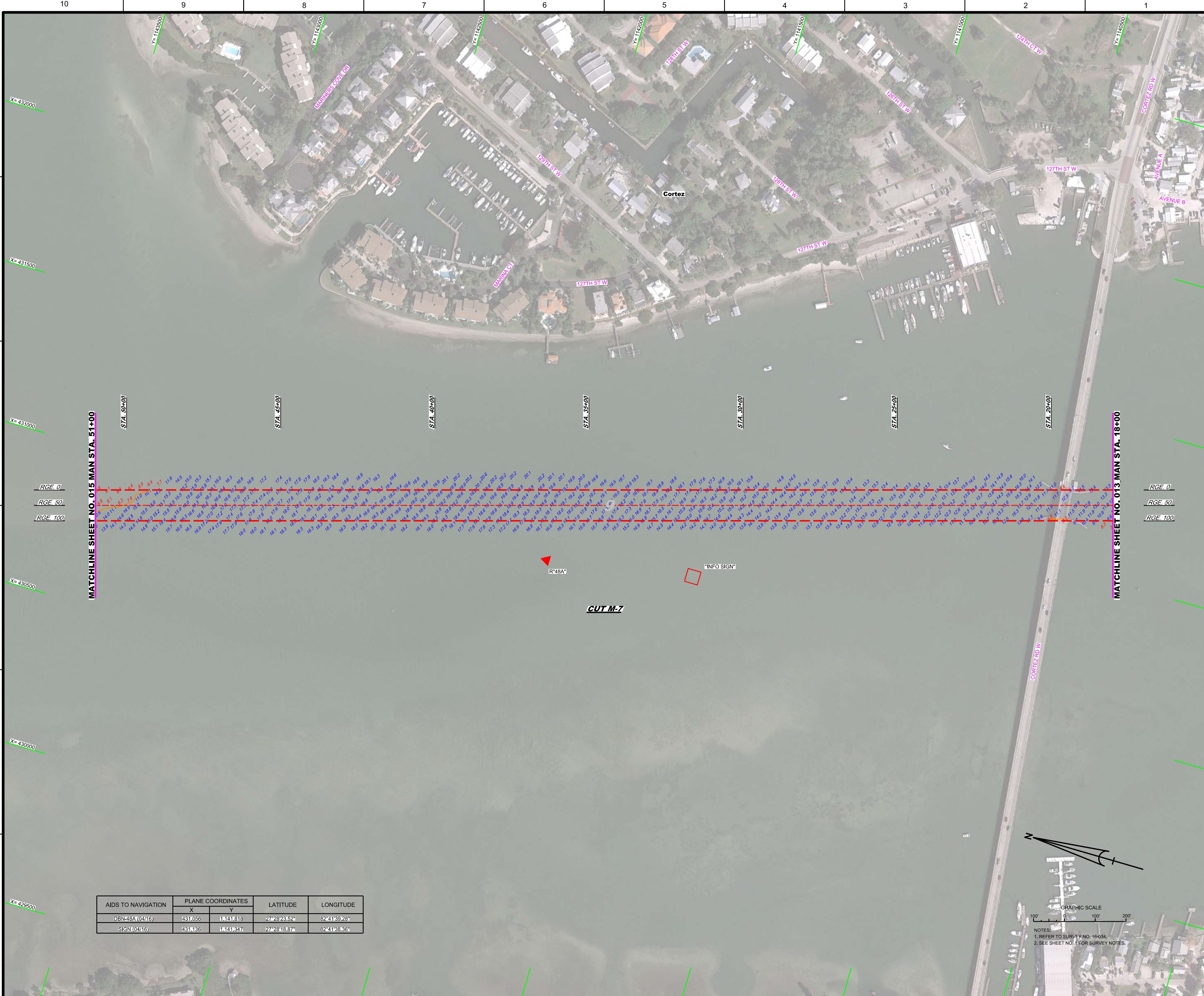
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GULF INTRACASTAL WATERWAY TO THE RIVER
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
PLAN
STA 27+00 CUT M-6 THRU STA 18+00 CUT M-7

1. REFER TO SURVEY NO. 16-034,
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

SHEET 13 OF 30

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AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN=48A (0416)	4317056	11141818	27°28'23.52"	82°41'39.28"
SIGN (0416)	4317136	11141847	27°28'18.87"	82°41'38.36"

100' 0 100' 200'
GRAPHIC SCALE
NOTES:
1. REFER TO SURVEY NO. 16-034.
2. SEE SHEET NO. F 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	WRM
Date	APR 2018

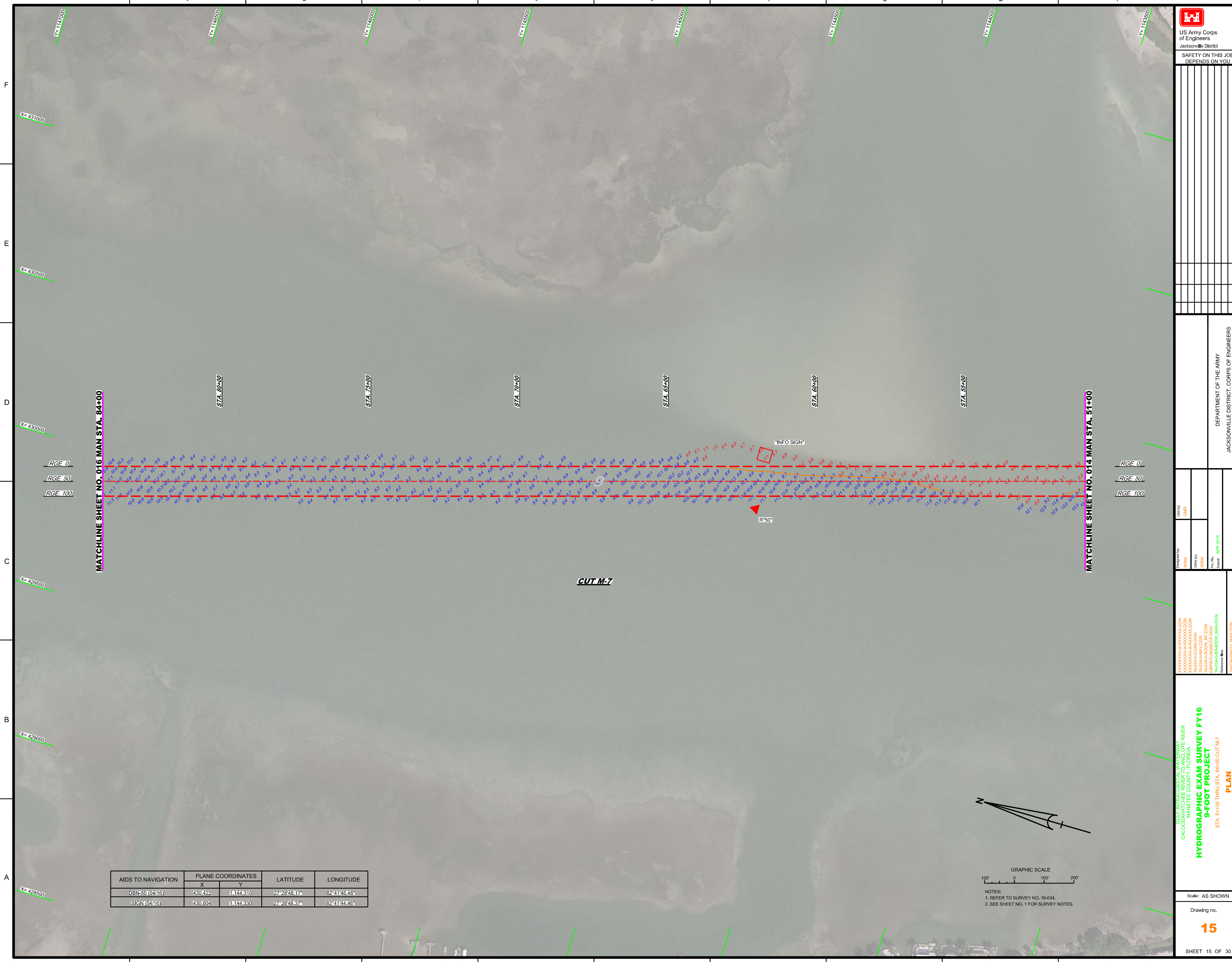
GULF INTERCOASTAL WATERWAY - WET NILE RIVER
CALOOSAHOUCHE COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT**
STA. 18+00 THRU STA. 51+00 CUT M-7
PLAN

Scale: AS SHOWN

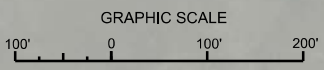
Drawing no.
14

SHEET 14 OF 30

F
M
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A



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-50 (0416)	430,422	1144,310	27°28'48.17"	82°41'24.48"
SIGN (0416)	430,604	1144,330	27°28'48.37"	82°41'24.46"



NOTES:
 1. REFER TO SURVEY NO. 16-034.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

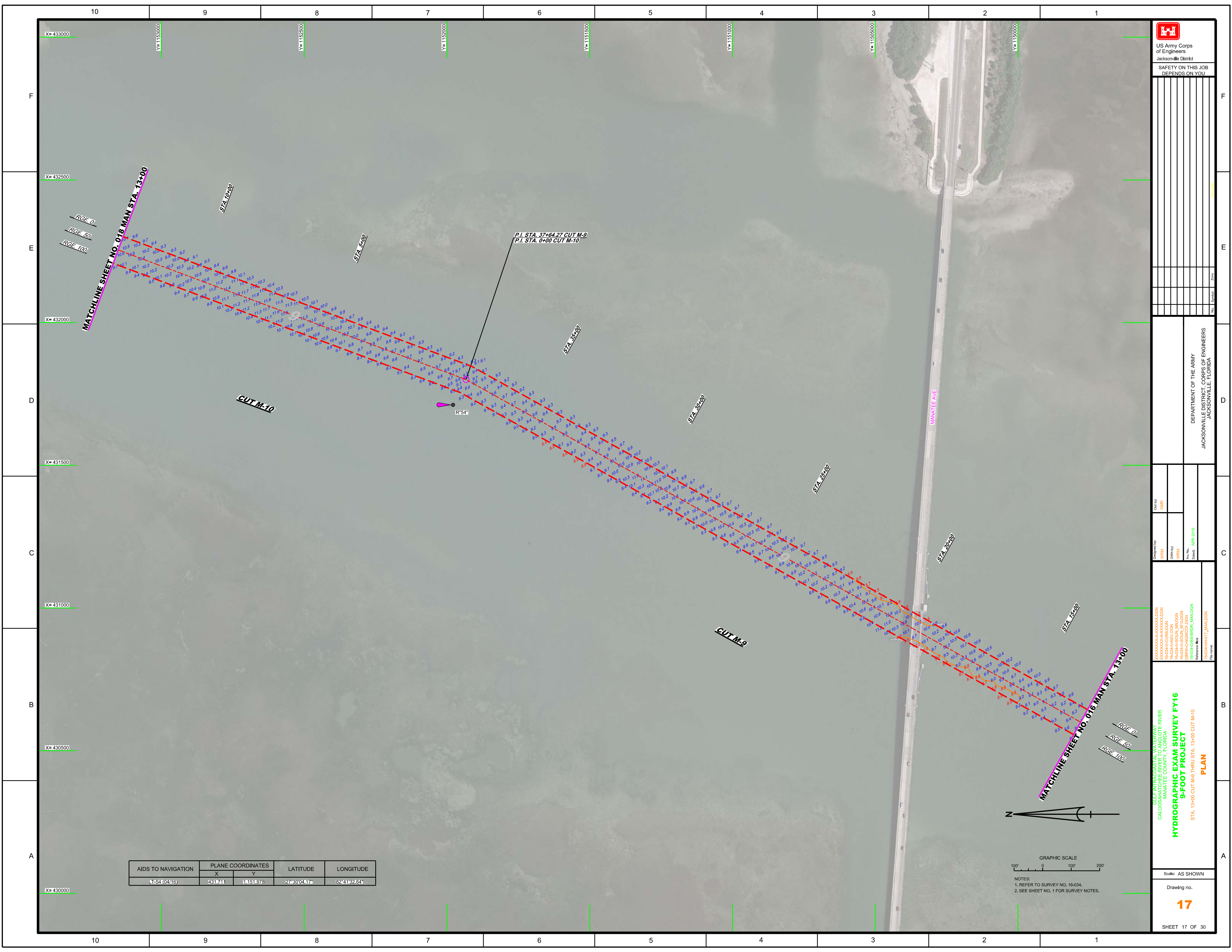
DESIGNED BY: WRM
 DWN BY: WRM
 CHECKED: WRM
 DATE: APR 2018

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

**HYDROGRAPHIC EXAM SURVEY FY16
 9-FOOT PROJECT
 STA. 51+00 THRU STA. 84+00 CUT M-7
 PLAN**

Scale: AS SHOWN	Drawing no.
15	

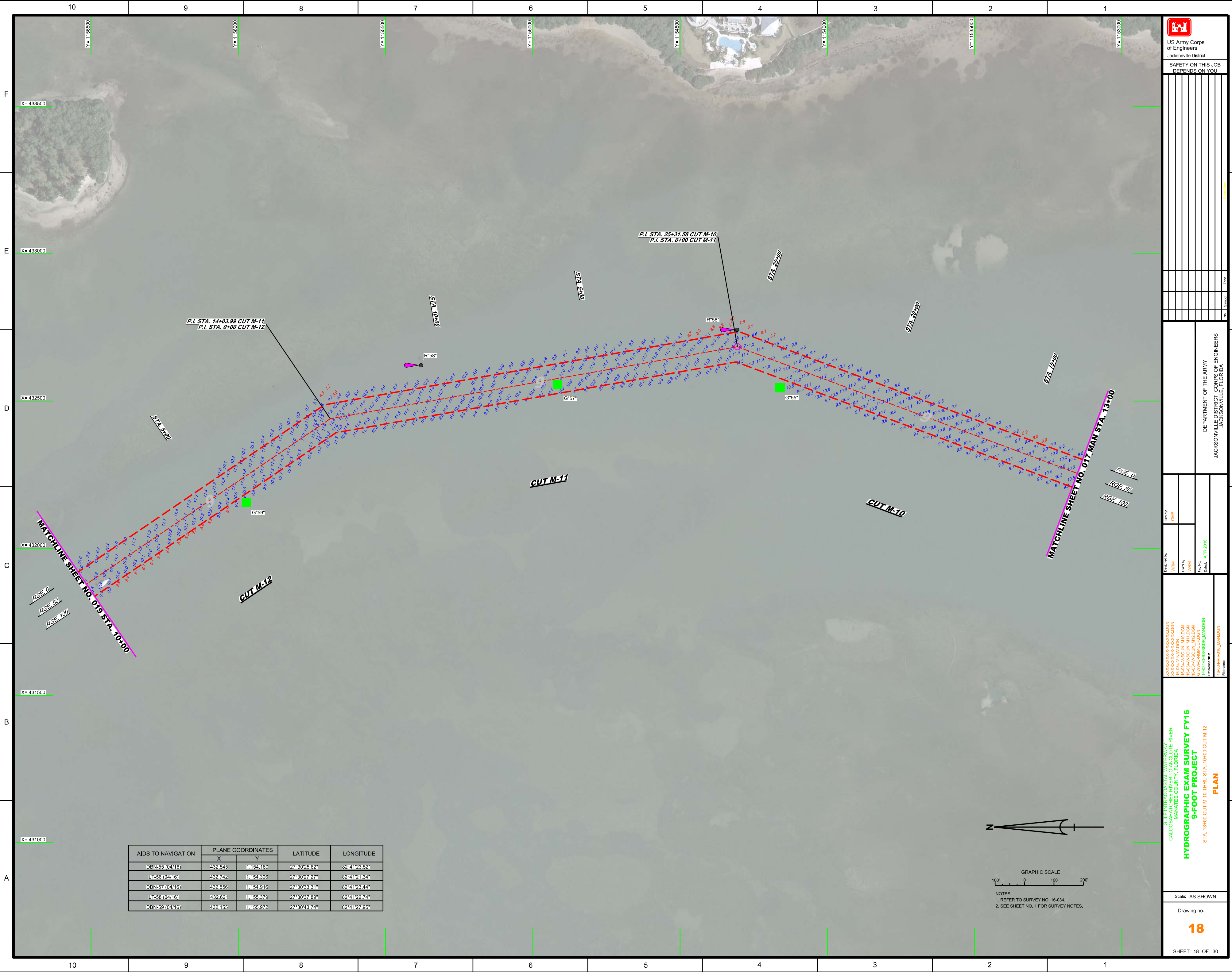
SHEET 15 OF 30




AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-54 (04/16)	431741	1151978	27°30'04.17"	82°41'32.84"



NOTES:
1. REFER TO SURVEY NO. 16-034.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.





 US Army Corps of Engineers
 Jacksonville District
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 DEPENDS ON YOU

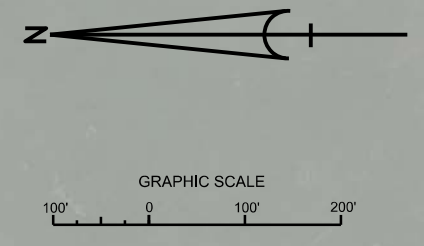
DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Designed by: WRM
 Drawn by: WRM
 Checked: APR 2018
 File name: 16-034-HR01L_MAN.DGN

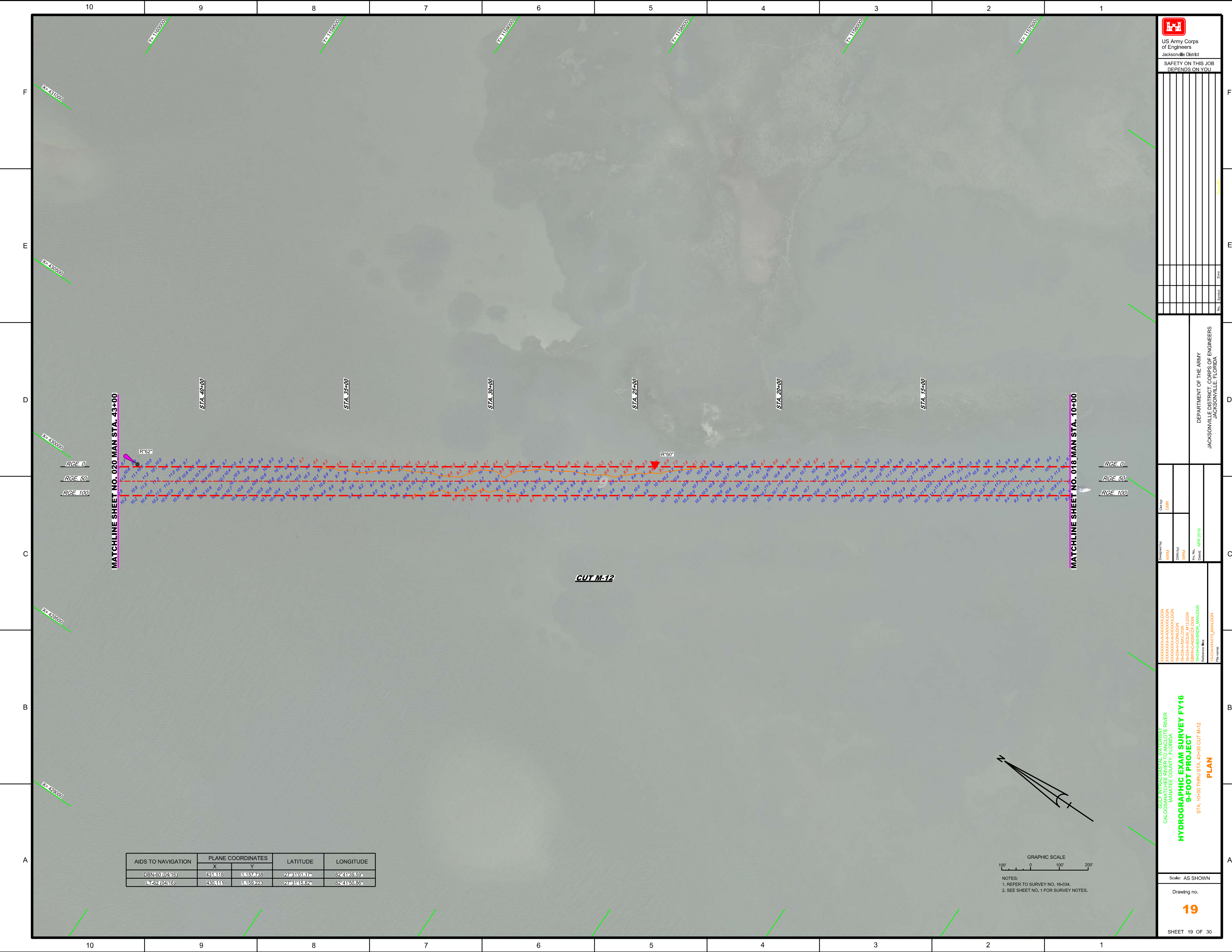
GULF INTRACOSTAL WATERWAY
 CALOOSAHOATCHEE RIVER
 CALOOSAHOATCHEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
 STA. 13+00 CUT M-10 THRU STA. 10+00 CUT M-12
PLAN

Scale: AS SHOWN
 Drawing no.
18
 SHEET 18 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-55 (04/16)	432,525	1155,160	27°30'25.82"	82°41'23.52"
LT-58 (04/16)	432,742	1154,306	27°30'27.27"	82°41'23.34"
DBN-57 (04/16)	432,556	1154,916	27°30'33.31"	82°41'23.44"
LT-58 (04/16)	432,624	1155,379	27°30'37.89"	82°41'22.74"
DBN-59 (04/16)	432,155	1155,972	27°30'43.74"	82°41'27.95"



NOTES:
 1. REFER TO SURVEY NO. 16-034,
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



Checked by:	GHF
Designed by:	WRM
Drawn by:	WRM
File No.:	16-034
Issue Date:	APR 2018

GULF INTRACOSTAL WATERWAY
 CALOOSAHOATCHEE RIVER
 CALOOSAHOATCHEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
 STA. 10+00 THRU STA. 43+00 CUT M-12
PLAN

MATCHLINE SHEET NO. 020 MAN STA. 43+00

MATCHLINE SHEET NO. 018 MAN STA. 10+00

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-60 (04/16)	431118	1157798	27°31'01.17"	82°41'39.59"
LT-82 (04/16)	430111	1159223	27°31'15.82"	82°41'50.86"

GRAPHIC SCALE
 100' 0 100' 200'
 NOTES:
 1. REFER TO SURVEY NO. 16-034.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

CUT M-12

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

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-82A(0416)	428.781	1162.202	27°31'45.83"	82°42'05.87"

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

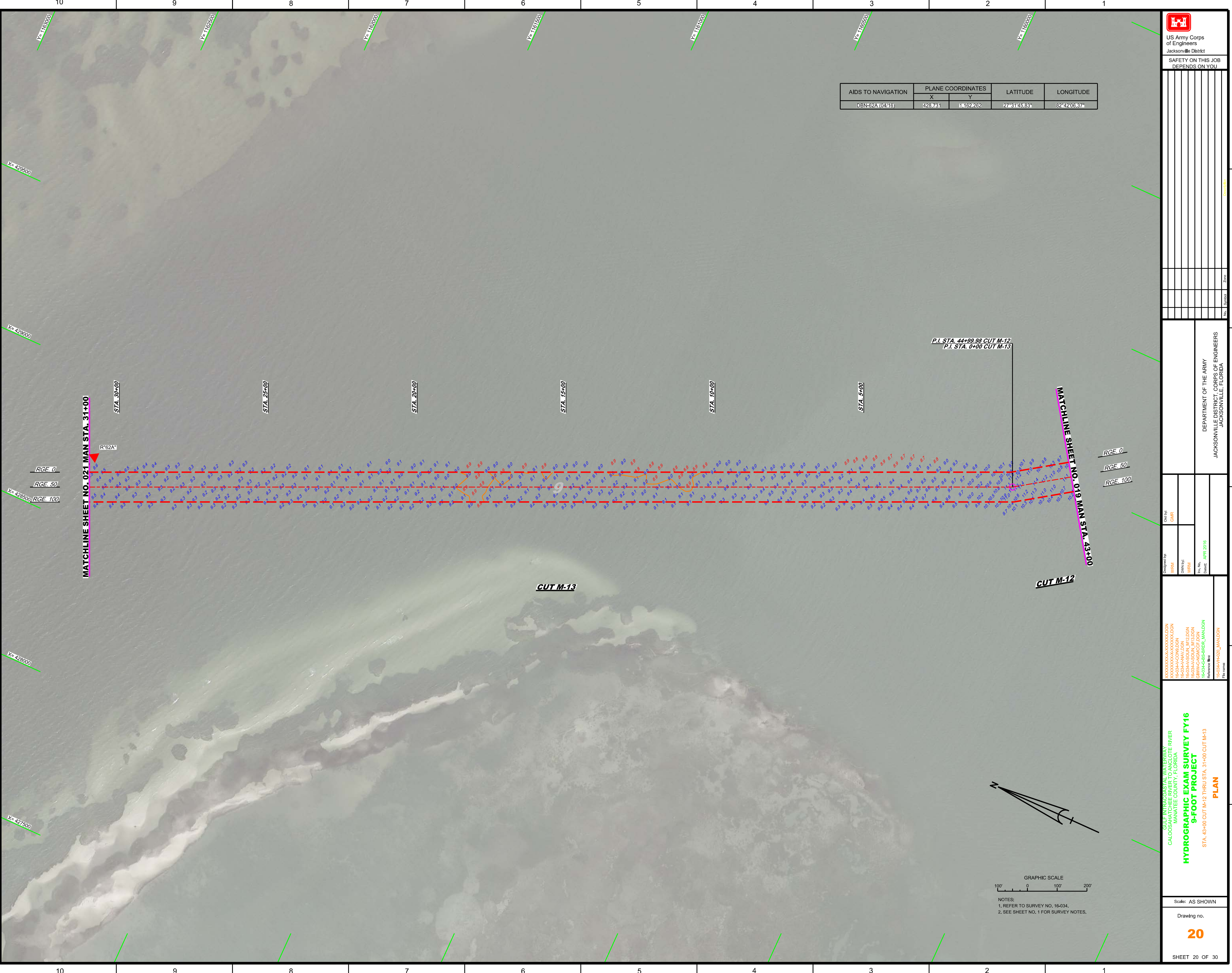
Check by: GHR
Designed by: WRM
Drawn by: WRM
File No.: 16-034
Date: APR 2016

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16-034-SOIL_I100.DGN

GULF INTRACASTAL WATERWAY
CALOOSA-WAUNATEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
STA. 43+00 CUT M-12 THRU STA. 31+00 CUT M-13
PLAN

Scale: AS SHOWN
Drawing no. **20**
SHEET 20 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-82A(0416)	428.781	1162.202	27°31'45.83"	82°42'05.87"



10 9 8 7 6 5 4 3 2 1

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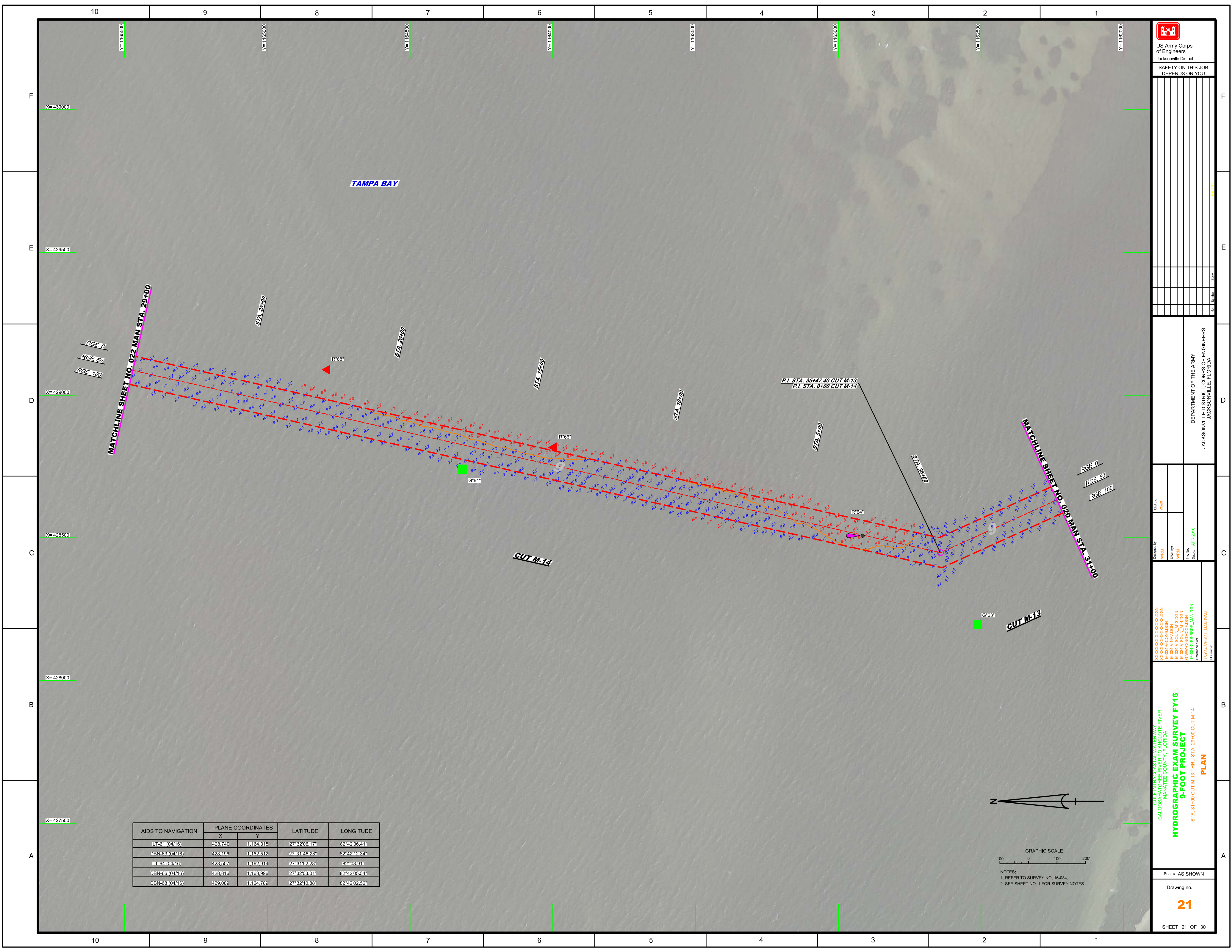
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B

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10 9 8 7 6 5 4 3 2 1



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-61 (04/16)	428740	1164315	27°32'08.17"	82°42'08.41"
DBN-63 (04/16)	428196	1162512	27°31'48.28"	82°42'12.34"
LT-64 (04/16)	428507	1162914	27°31'52.28"	82°40'08.91"
DBN-66 (04/16)	428316	1163696	27°32'08.01"	82°42'05.54"
DBN-68 (04/16)	429089	1164789	27°32'10.88"	82°42'02.55"

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

Checked By: GHR	Drawn By: WRM
Designed By: WRM	In Charge: APR 2016

GULF INTRACOSTAL WATERWAY AT THE RIVER

 CALOOSAHOOCHEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY16

9-FOOT PROJECT

 STA. 31+00 CUT M-13 THRU STA. 29+00 CUT M-14

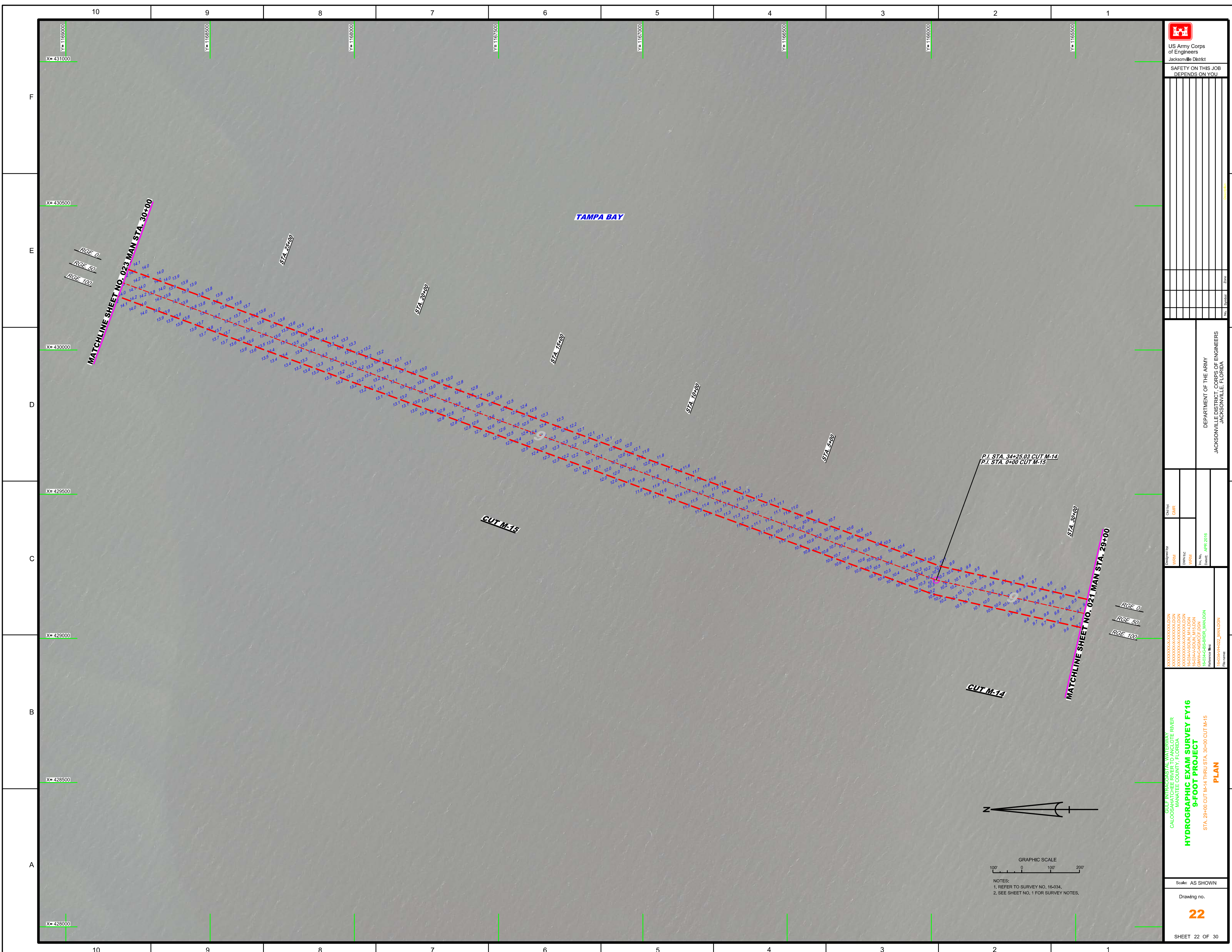
PLAN


Scale: AS SHOWN

 Drawing no.

21

 SHEET 21 OF 30





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

Checked by: **CHR**

Designed by: **WRM**

Drawn by: **WRM**

File Name: **9-FOOT-00 CUT M-14**

Date: **APR 2016**

HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT

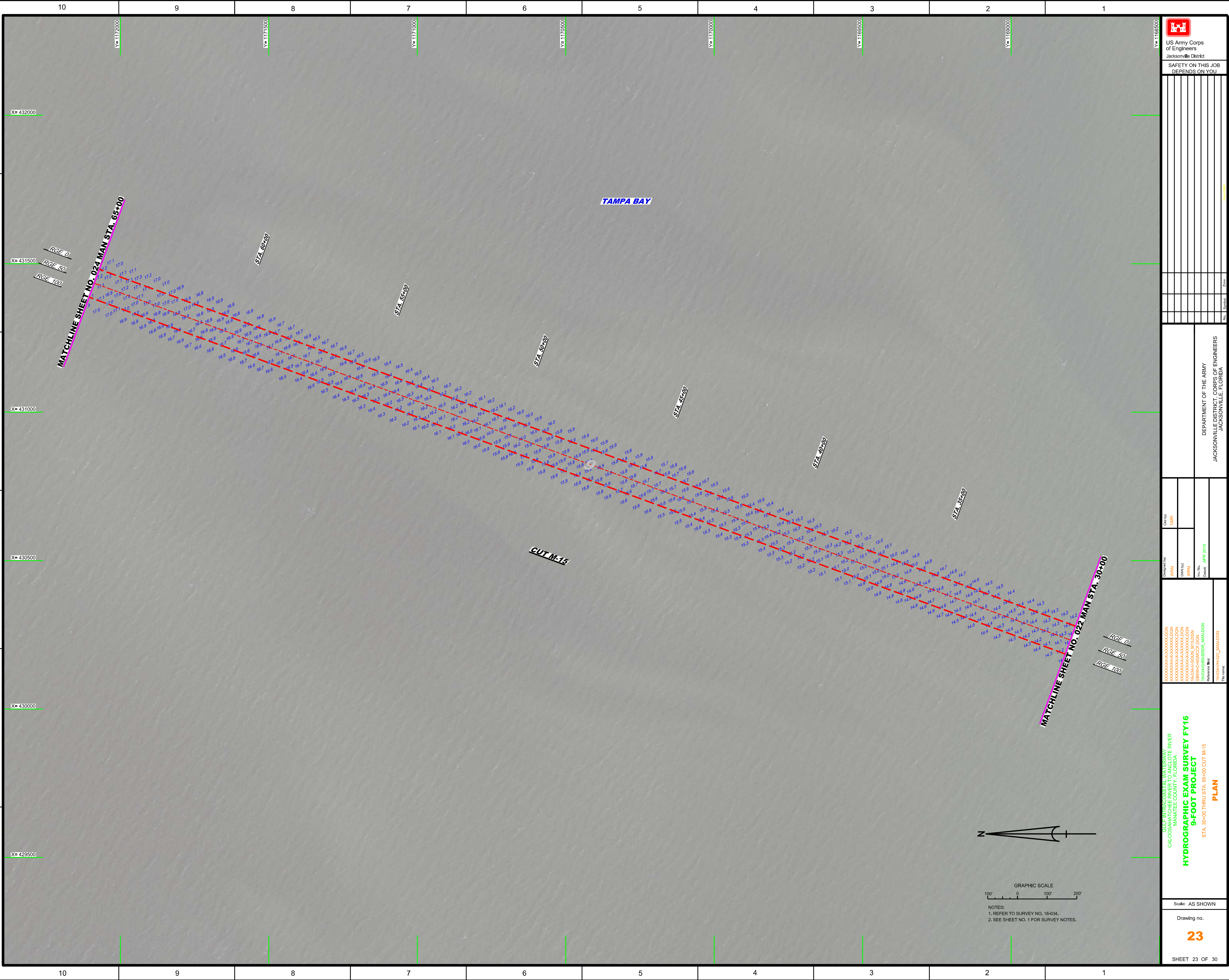
STA. 29+00 CUT M-14 THRU STA. 30+00 CUT M-15
PLAN

Scale: AS SHOWN

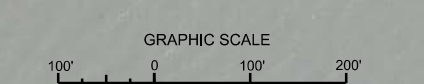
Drawing no.
22

SHEET 22 OF 30

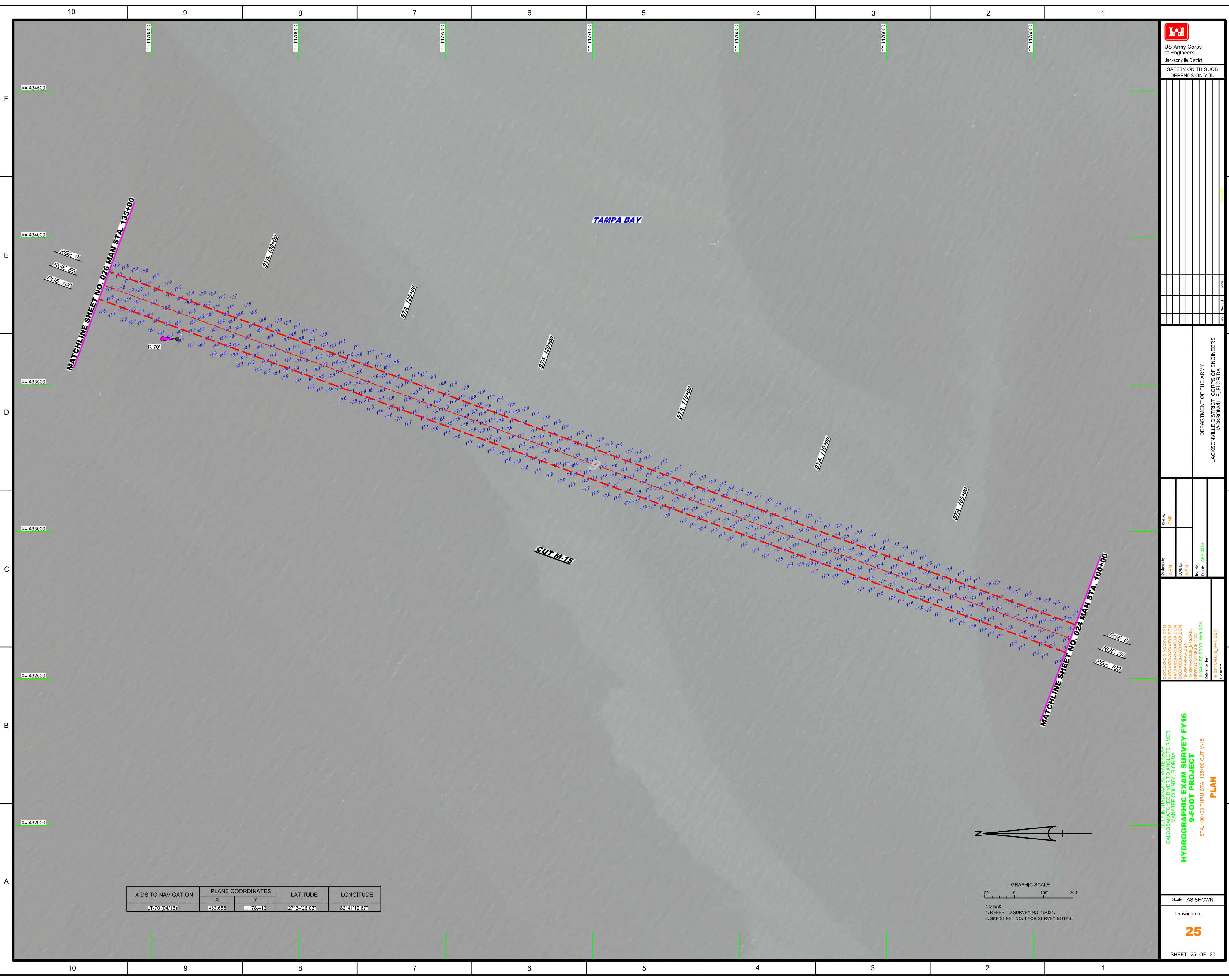
GULF INTERCOASTAL WATERWAY PROJECT
CALOOSAHATCHEE COUNTY, FLORIDA



<p>US Army Corps of Engineers Jacksonville District</p>	
<p>SAFETY ON THIS JOB DEPENDS ON YOU</p>	
<p>Checked By: GHR</p>	<p>Drawn By: WRM</p>
<p>Designed By: WRM</p>	<p>File Name: 16-034-00000000.DGN</p>
<p>Scale: AS SHOWN</p>	<p>Reference File: 16-034-00000000.DGN</p>
<p>GULF INTRACOSTAL WATERWAY PROJECT CALOOSAHOUCHE COUNTY, FLORIDA</p>	
<p>HYDROGRAPHIC EXAM SURVEY FY16 9-FOOT PROJECT STA. 30+00 THRU STA. 65+00 CUT M-15 PLAN</p>	
<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>	
<p>SHEET 23 OF 30</p>	



NOTES:
1. REFER TO SURVEY NO. 16-034.
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

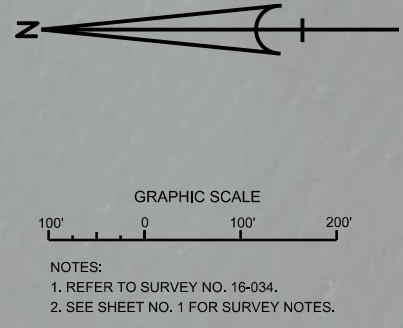
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File No: 16-034
Date: APR 2018

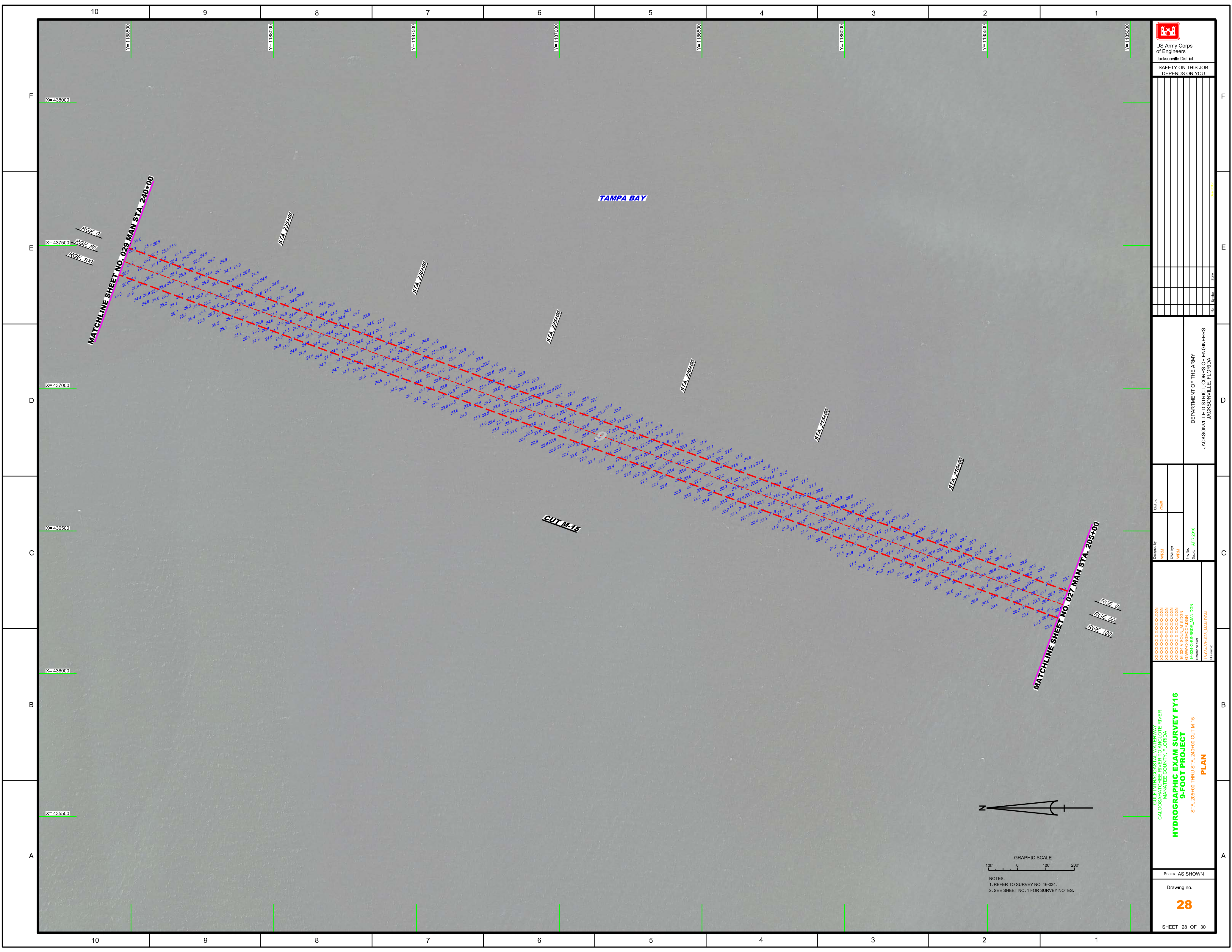
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HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
STA. 100+00 THRU STA. 135+00 CUT M-15
PLAN

Scale: AS SHOWN
Drawing no. **25**
SHEET 25 OF 30

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
L1701 (04/16)	433656	1178412	27°34'26.03"	82°41'42.67"





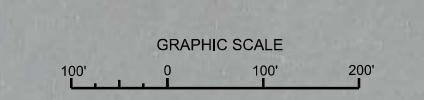

 US Army Corps of Engineers
 Jacksonville District
 SAFETY ON THIS JOB
 DEPENDS ON YOU

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

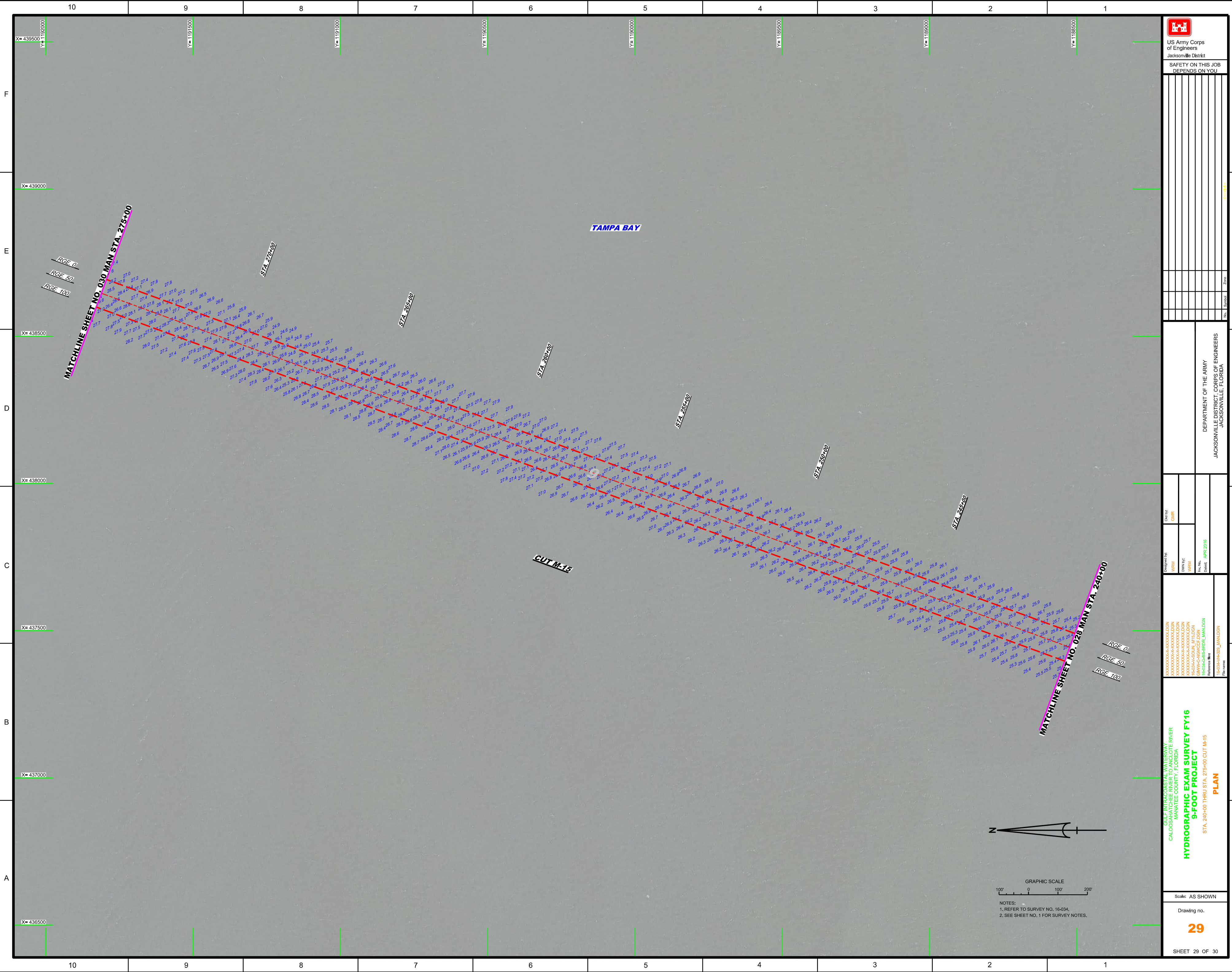
Call by: GHR
 Designed by: WRM
 Drawn by: WRM
 File No: 16-034
 Date: APR 2016


GULF INTRACOSTAL WATERWAY
 CALOOSAHOOCHEE RIVER
 CALOOSAHOOCHEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
 STA. 205+00 THRU STA. 240+00 CUT M-15
PLAN

Scale: AS SHOWN
 Drawing no.
28
 SHEET 28 OF 30



NOTES:
 1. REFER TO SURVEY NO. 16-034.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.





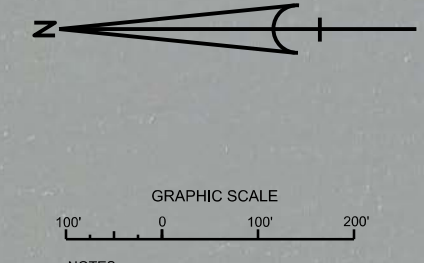
 US Army Corps of Engineers
 Jacksonville District
 SAFETY ON THIS JOB
 DEPENDS ON YOU

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

Call by: GHR
 Designed by: WRM
 Drawn by: WRM
 File No.: 16-034
 Date: APR 2016

GULF INTRACOSTAL WATERWAY TO THE RIVER
 CALOOCAN, WADSWORTH COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY16
9-FOOT PROJECT
 STA. 240+00 THRU STA. 275+00 CUT M-15
PLAN

Scale: AS SHOWN
 Drawing no.
29
 SHEET 29 OF 30



NOTES:
 1. REFER TO SURVEY NO. 16-034.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

