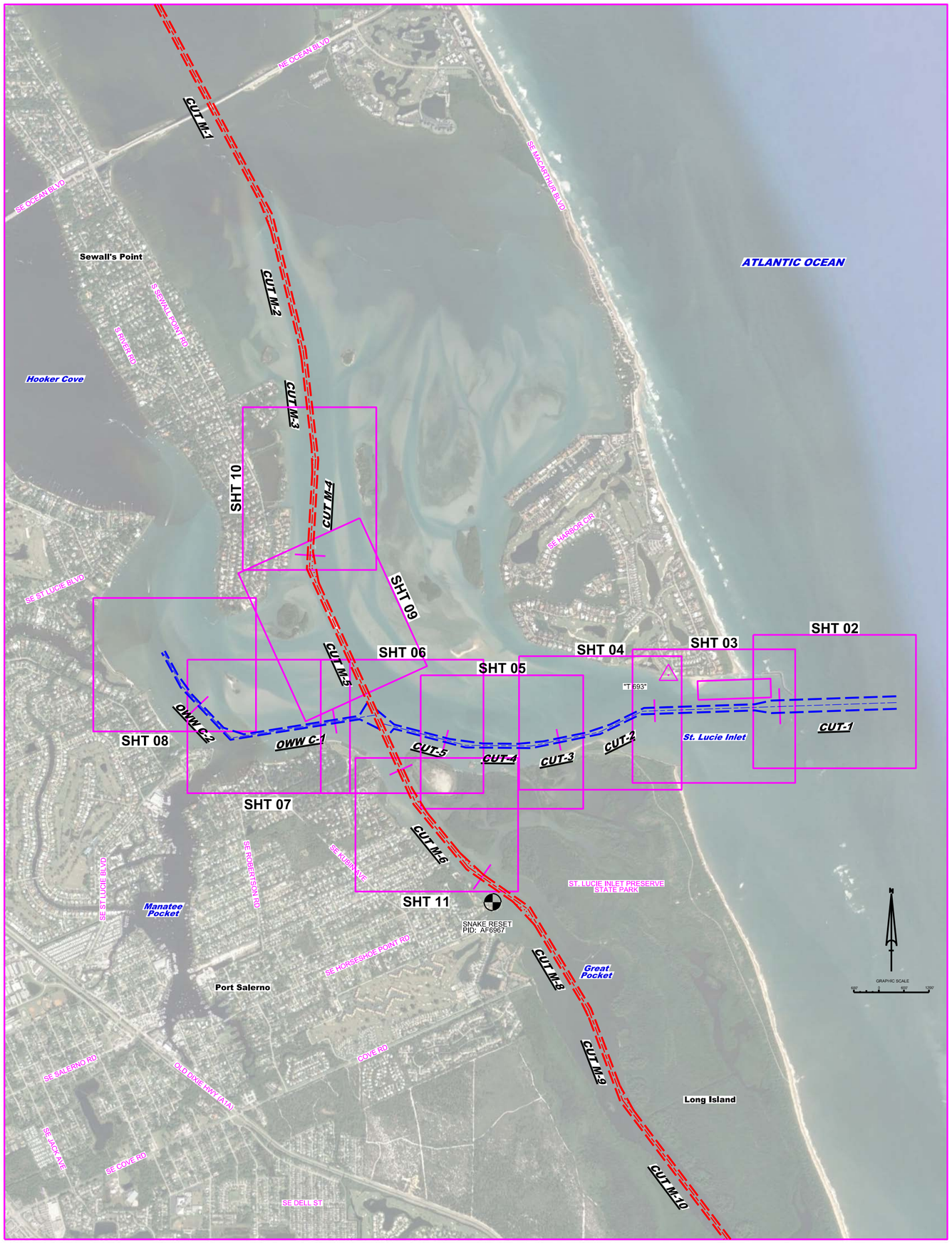
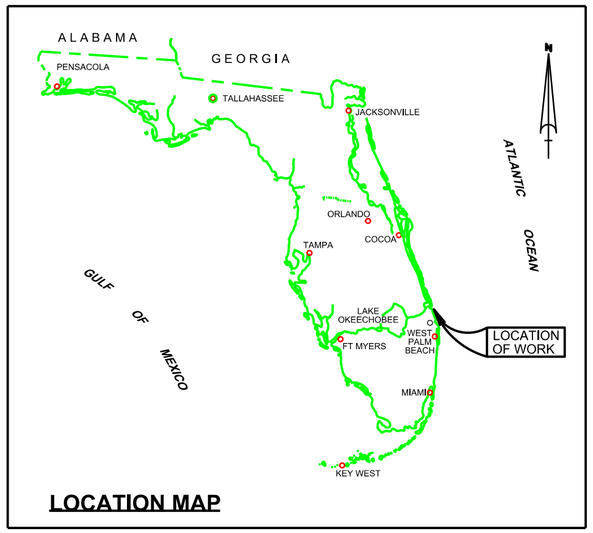




ST. LUCIE INLET / CROSSROADS
MARTIN COUNTY, FLORIDA
POST-HURRINCAE MATTHEW
HYDROGRAPHIC EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 17-012.
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 KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "INDIANRIVER-STLUCIE-MARTIN-20140527.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 EAST 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 POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "T 693" (PID: BBFH83)

8. 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 VDATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHTS OF THE BENCH MARK BELOW:

   NOAA TIDAL STATION 872-2381 FOR ALL CUTS (PID: AF6967)

   VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTI-BEAM AND SIDESCAN SONAR. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	25-27 OCT 2016	CUTS 1-5, M-4, M-5 OWW CUTS 1 & 2

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 13.

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
Drawn by: VIRM
Checked by: GMR
Rev. No. W912EP-XX-X-XXXX
Date: OCT 2016

XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
17-012-LANDS.DGN
MYAC-CNEWCF.DGN
SLI AND OWW (CUTS 1-3)-MOCF.DGN
17-012-e-BS-BNDR.DGN
Reference files:
17-012-VH-SH01.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT

INDEX, LOCATION AND VICINITY

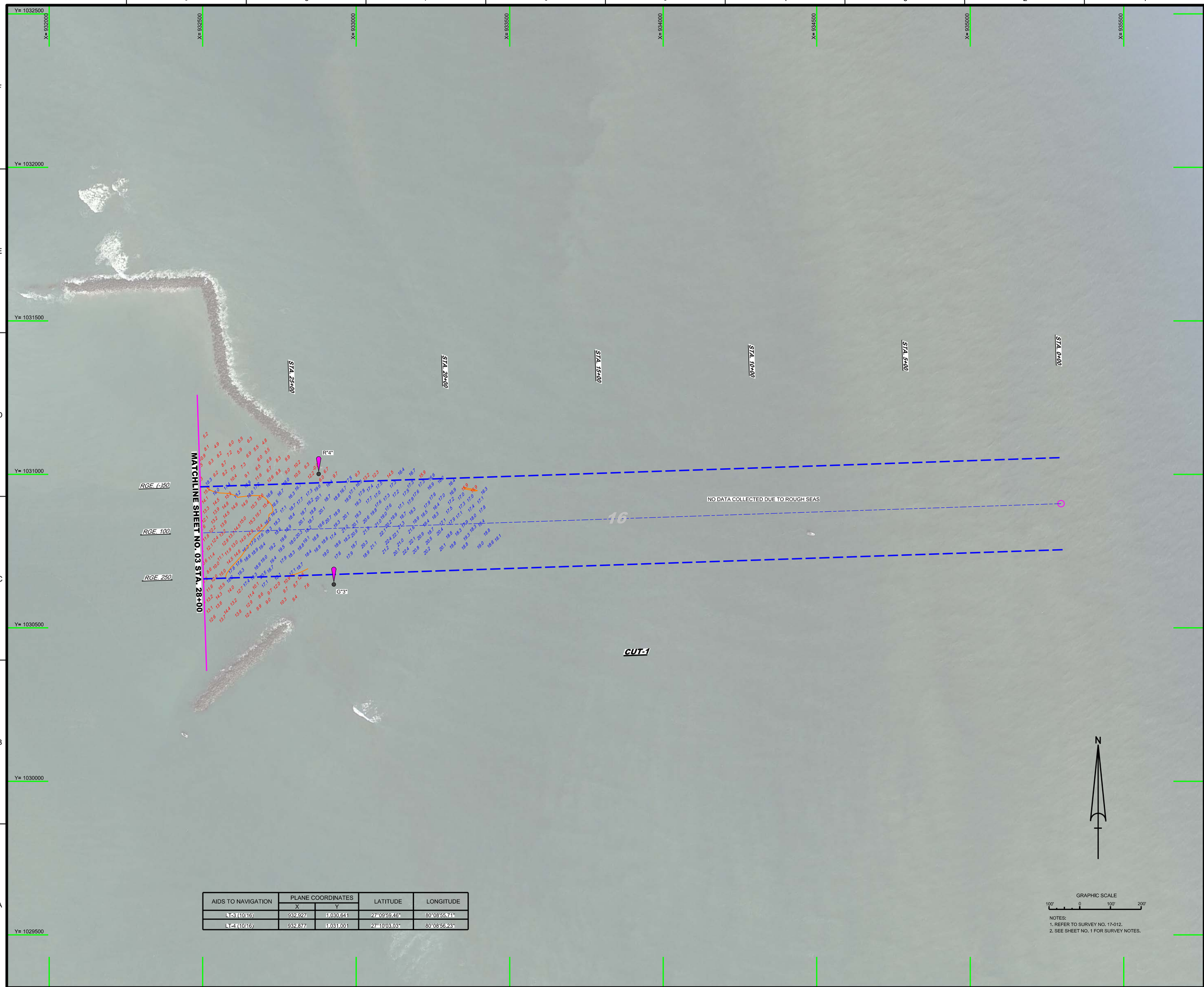
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-3 (10/16)	932,927	1,030,641	27°09'59.46"	80°08'55.71"
LT-4 (10/16)	932,877	1,031,001	27°10'03.03"	80°08'56.23"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-012.
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
DWN by: WRM
Ckd by: GMR
Fm. No. W912EP-XX-X-XXXX
Date: OCT 2016

Reference files:
XX-XXXXX-X-XXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
17-012-X-CON16.DGN
17-012-X-SURVEY.DGN
17-012-X-NAVIG.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
17-012-CABS-BRDR.DGN
File name: 17-012-VH-SH02.DGN

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT
STA. 0+00 THRU STA. 28+00 CUT-1

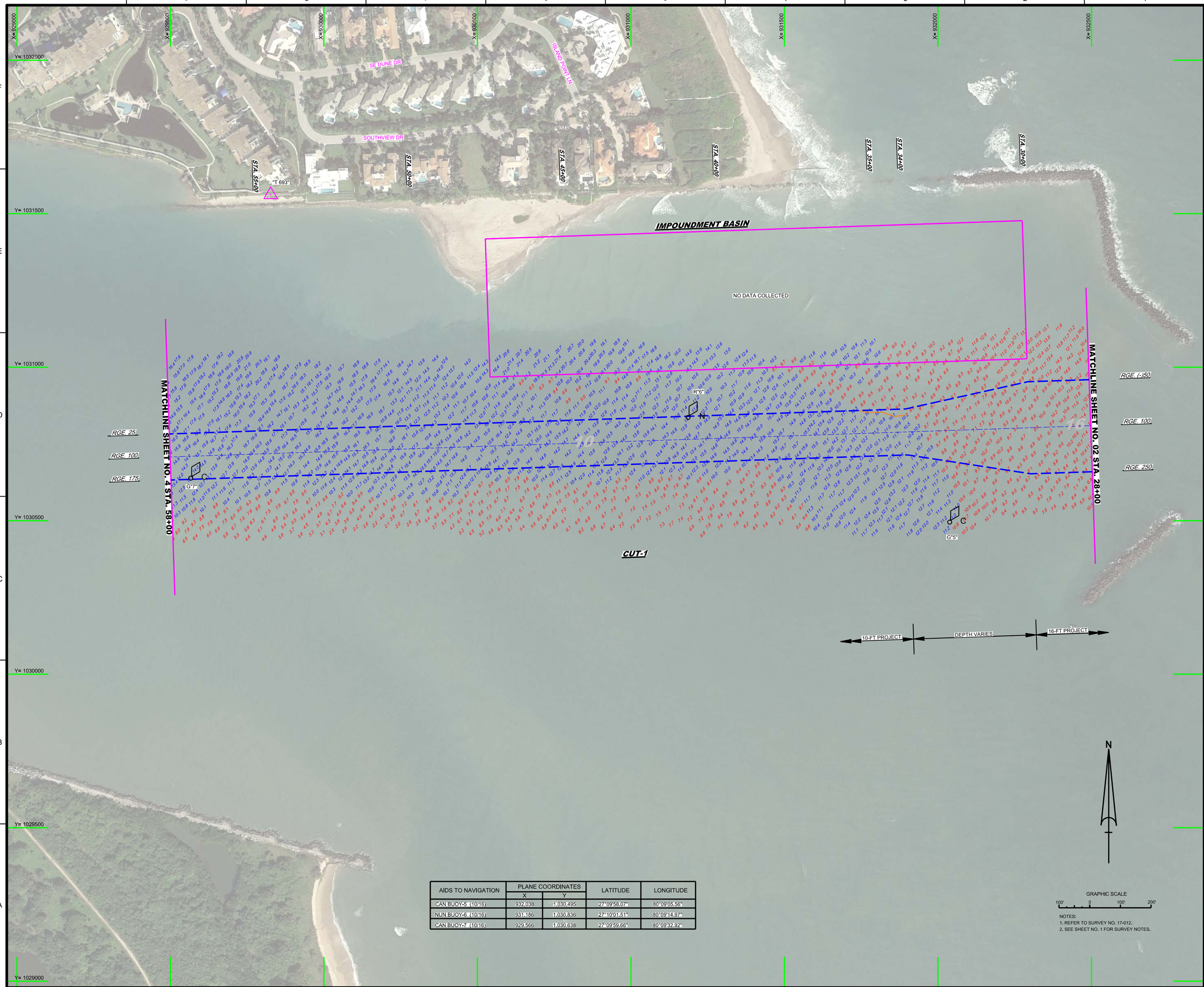
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-5 (10/16)	932,038	1,030,495	27°09'58.07"	80°09'05.56"
NUN BUOY-6 (10/16)	931,186	1,030,836	27°10'01.51"	80°09'14.97"
CAN BUOY-7 (10/16)	929,566	1,030,638	27°09'59.66"	80°09'32.92"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-012.
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

Chief by: CMR
Designed by: VRM
DWN by: VRM
Rev. No. V912EP-XXX-XXXX
Dataset: OCT 2016

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-012-X-CONTOUR.DGN
17-012-X-SURVEY.DGN
17-012-X-NAVAID.DGN
SLI AND OWW CUTS 1-3-AMCF.DGN
17-012-X-BS-BRDR.DGN
Reference files:
17-012-VH-SHX03.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

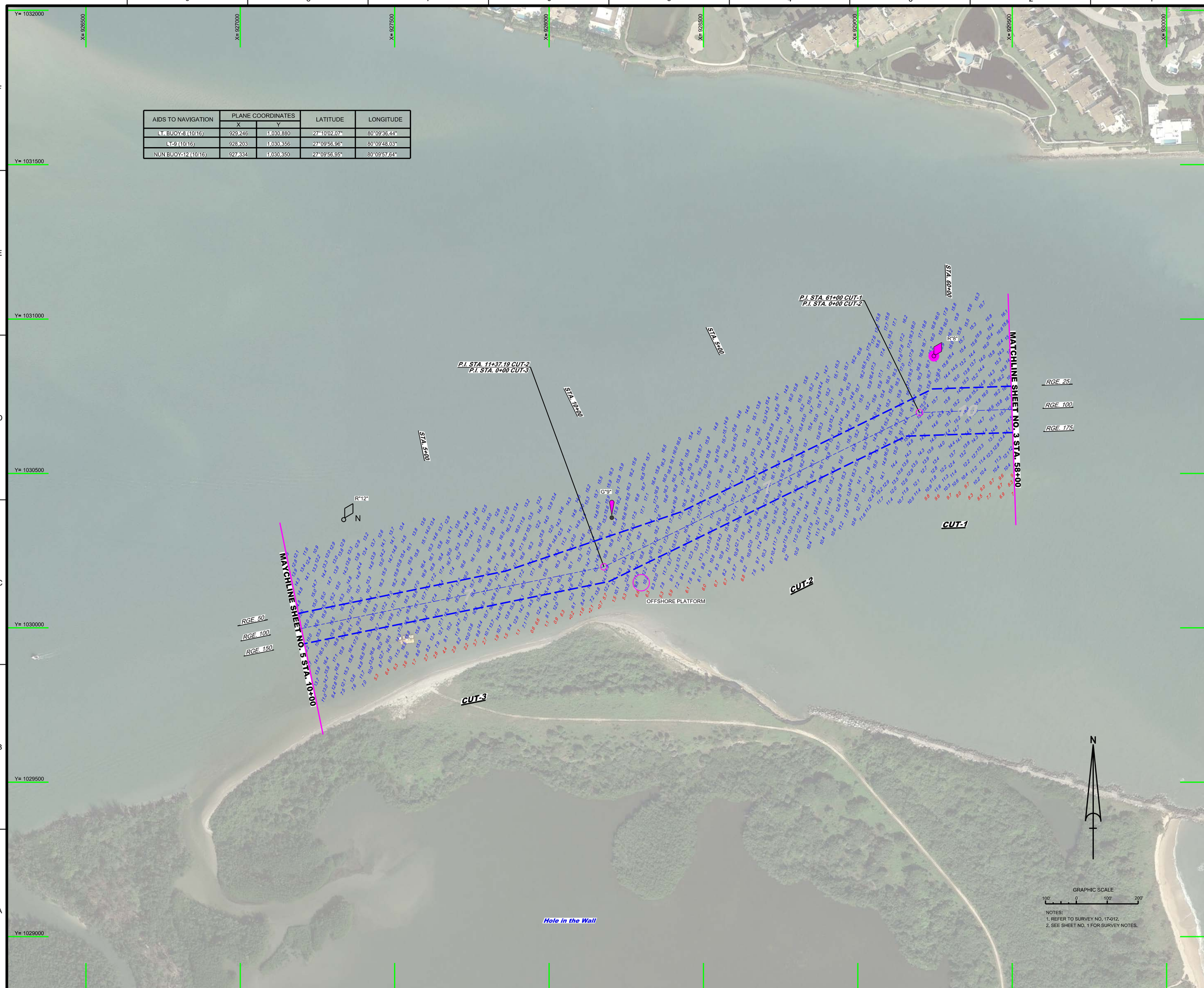
POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT
STA. 28+00 THRU STA. 58+00 CUT-1
PLAN

Scale: AS SHOWN

Drawing no.
3

SHEET 03 OF 11

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-8 (10/16)	929,246	1,030,880	27°10'02.07"	80°09'36.44"
LT-9 (10/16)	928,203	1,030,356	27°09'56.96"	80°09'48.03"
NUN BUOY-12 (10/16)	927,334	1,030,350	27°09'56.95"	80°09'57.64"



NOTES:
1. REFER TO SURVEY NO. 17-012.
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
Rev. No. V9123EP-XX-X-XXXX
Date: OCT 2016

17-012-XX-X-XXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
17-012-XX-SOUN_CS.DGN
17-012-XX-SOUN_CD.DGN
17-012-XX-SOUN_CT.DGN
17-012-XX-NAV.DGN
SLI AND ONWI(CUTS 1-3)-MCCF.DGN
17-012-xx-BS-BNDR.DGN
Reference files:

17-012-VH-SHXL.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT

STA. 58+00 CUT-1 THRU STA. 10+00 CUT-3

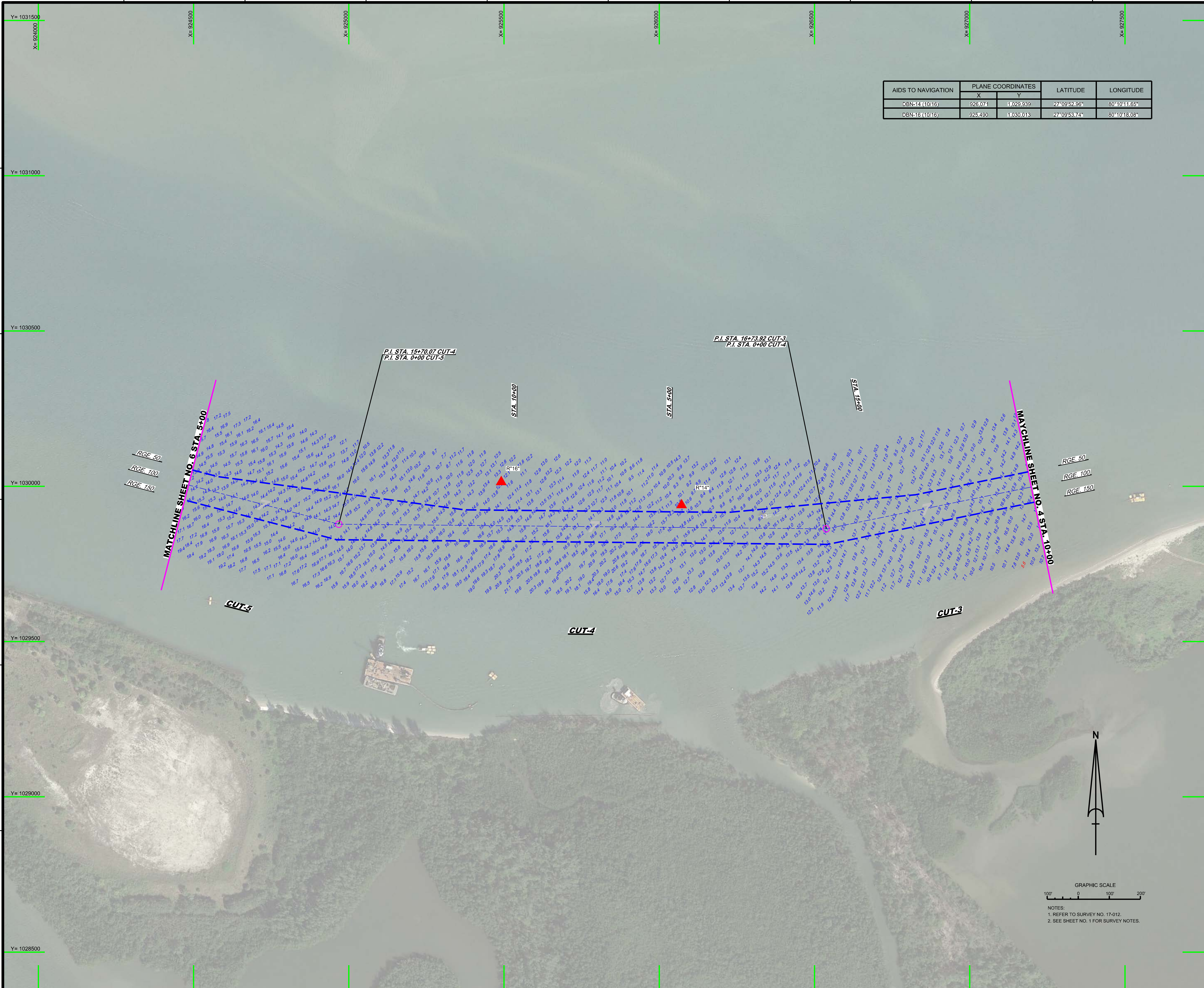
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-14 (10/16)	926,071	1,029,939	27°09'52.96"	80°10'11.65"
DBN-16 (10/16)	925,490	1,030,013	27°09'53.74"	80°10'18.08"

NOTES:
1. REFER TO SURVEY NO. 17-012.
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 | Description

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Dated: OCT 2016

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
17-012-V-SOUN_C5.DGN
17-012-V-SOUN_C4.DGN
17-012-V-SOUN_C3.DGN
17-012-V-NAV.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
17-012-G-BS-BRDR.DGN

File name: 17-012-VH-SH05.DGN

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

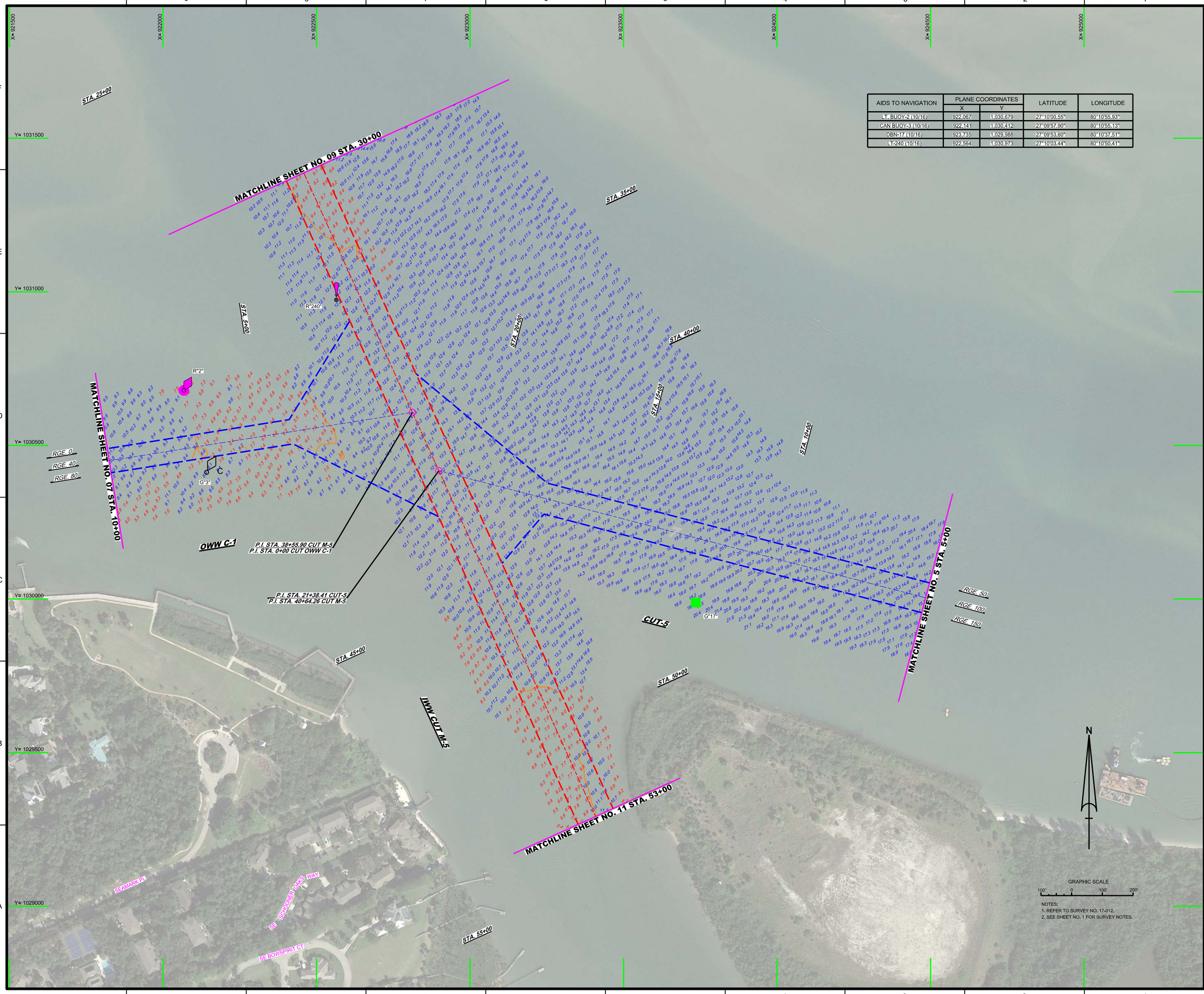
POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT

STA. 10+00 CUT-3 THRU STA. 5+00 CUT-5

PLAN

Scale: AS SHOWN

Drawing no. 5



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (10/16)	922,067	1,030,679	27°10'00.55"	80°10'55.93"
CAN BUOY-3 (10/16)	922,141	1,030,412	27°09'57.90"	80°10'55.13"
DBN-17 (10/16)	923,735	1,029,988	27°09'53.60"	80°10'37.51"
LT-240 (10/16)	922,564	1,030,973	27°10'03.44"	80°10'50.41"

NOTES:
1. REFER TO SURVEY NO. 17-012.
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
DWN by: WRM
Ckd by: GMR
Proj. No. V6912EP-XX-XX-XXX
Date: OCT 2016

17-012-XA-AVU.DGN
17-012-XA-CON1.DGN
17-012-XA-CON2.DGN
17-012-XA-SOUN_OWW1.DGN
17-012-XA-SOUN_MLD.DGN
17-012-XA-SOUN_FLA.DGN
IWW-CAR-MCF.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
17-012-XB-BRDR.DGN
Reference files
17-012-XH-SHX6.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT

STA. 5+00 THRU STA. 21+38.41 CUT-5

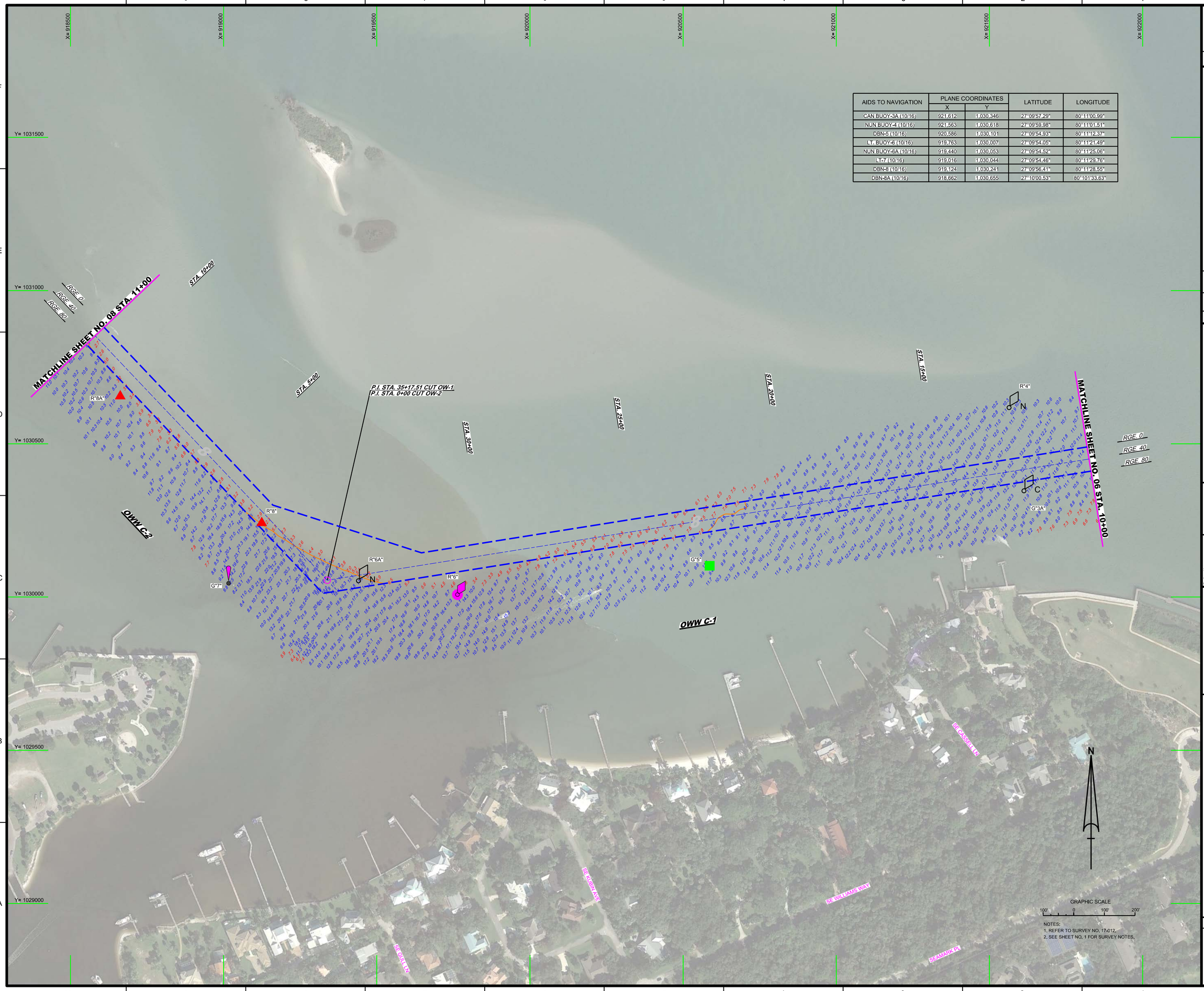
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-3A (10/16)	921,612	1,030,346	27°09'57.29"	80°11'00.99"
NUN BUOY-4 (10/16)	921,563	1,030,618	27°09'59.98"	80°11'01.51"
DBN-5 (10/16)	920,586	1,030,101	27°09'54.93"	80°11'12.37"
LT. BUOY-5 (10/16)	919,763	1,030,007	27°09'54.05"	80°11'21.49"
NUN BUOY-6A (10/16)	919,440	1,030,053	27°09'54.52"	80°11'25.06"
LT-7 (10/16)	919,016	1,030,044	27°09'54.46"	80°11'29.76"
DBN-8 (10/16)	919,124	1,030,241	27°09'56.41"	80°11'28.55"
DBN-8A (10/16)	918,662	1,030,655	27°10'00.53"	80°101'33.63"

NOTES:
1. REFER TO SURVEY NO. 17-012.
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
DWN by: WRM
Ckd by: GMR
Proj. No. V912EP-XX-XX-XXXX
Date: OCT 2016

17-012-A-CONS.DGN
17-012-A-NAV.DGN
17-012-A-SOUTH-OWW2.DGN
17-012-A-SOUTH-OWW1.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
17-012-C-BS-BRDR.DGN
Reference files

17-012-A-Hs-Sht07.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT
STA. 10+00 CUT OW-1 THRU STA. 11+00 CUT OW-2

PLAN

Scale: AS SHOWN

Drawing no.
7

SHEET 07 OF 11

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-10 (10/16)	918,404	1,031,084	27°10'04.80"	80°11'36.45"
LT-11 (10/16)	918,231	1,030,946	27°10'03.44"	80°11'38.38"

NOTES:
1. REFER TO SURVEY NO. 17-012.
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: MRM
DWN by: MRM
Ckd by: GMR
Proj. No. V912EP-XX-XX-XXXX
Date: OCT 2016

17-012-A-CON8.DGN
17-012-A-MAP.DGN
17-012-A-SOUN_OWY2.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
17-012-A-BS-BRGR.DGN
Reference files
17-012-A-HH-SH08.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT

STA. 11+00 CUT OWW-2 THRU STA. 9+46.01 CUT OWW-3

PLAN

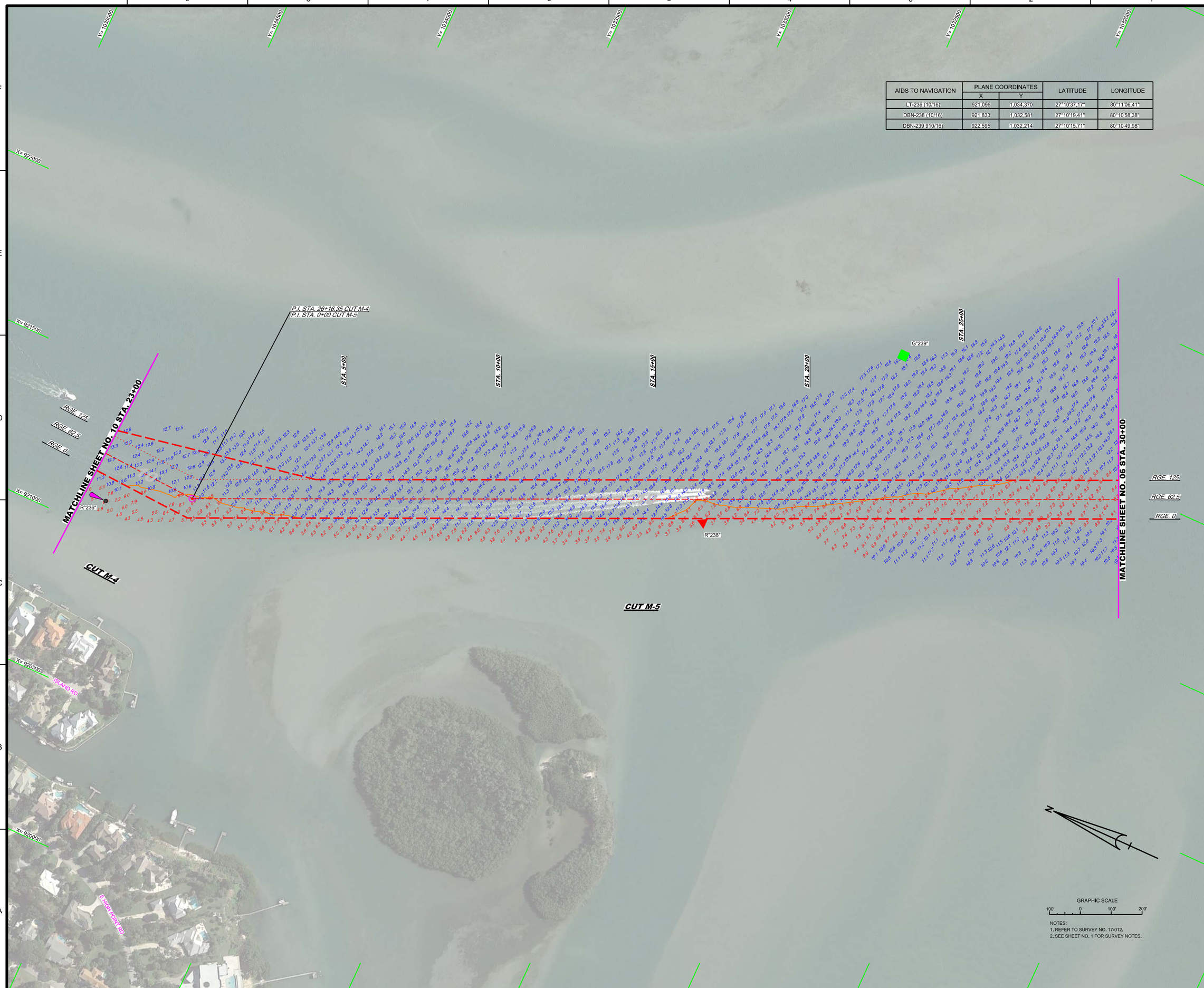
Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 11

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-236 (10/16)	921,096	1,034,370	27°10'37.17"	80°11'06.41"
DBN-238 (10/16)	921,833	1,032,581	27°10'19.41"	80°10'58.38"
DBN-239 910/16)	922,595	1,032,214	27°10'15.71"	80°10'49.98"



NOTES:
1. REFER TO SURVEY NO. 17-012.
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. V9123EP-XX-X-XXXX
Date: OCT 2016

17-012-XX-X-XXXX.DGN
XXXXXXXX-X-XXXXXXXX.DGN
17-012-VANAV.DGN
17-012-A-CON1ILD.DGN
17-012-A-CON2ILD.DGN
17-012-N-SOUN_MILD.DGN
NWW-CANGMCCF.DGN
17-012-e-ES-BRDR.DGN
Reference files:
17-012-VHB.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT
STA. 23+00 CUT M-4 THRU STA. 30+00 CUT M-5

PLAN

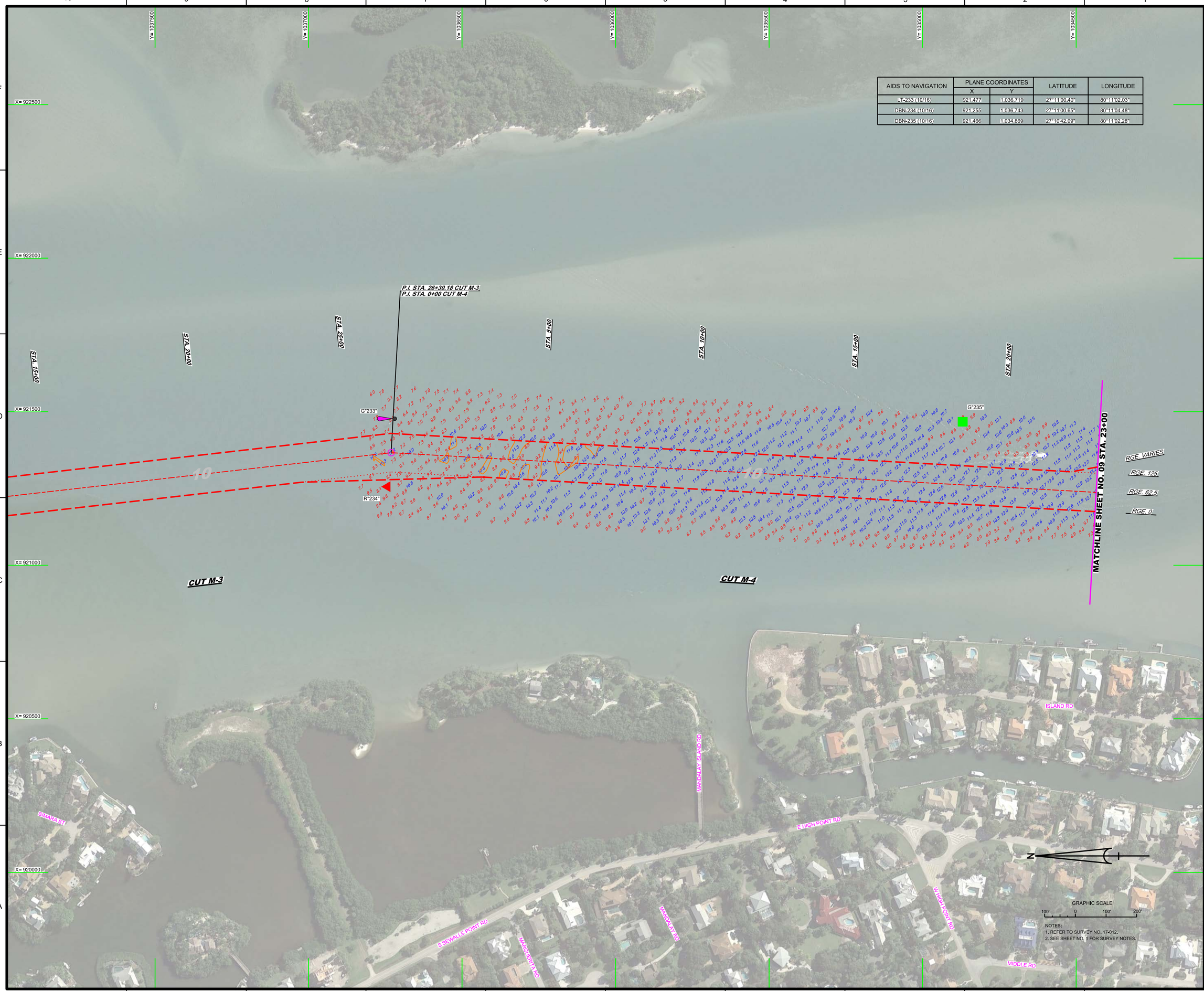
Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 11

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-233 (10/16)	921,477	1,036,719	27°11'00.40"	80°11'02.03"
DBN-234 (10/16)	921,255	1,036,743	27°11'00.65"	80°11'04.48"
DBN-235 (10/16)	921,466	1,034,869	27°10'42.09"	80°11'02.28"



NOTES:
1. REFER TO SURVEY NO. 17-012.
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
Dwn by: WRM
Ckd by: GMR
Inv. No. W912EF-XX-X-XXXX
Dated: OCT 2016

XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
17-012A4-NAVX.DGN
17-012A4-CONTOUR.DGN
17-012A-SIGN_MA.DGN
0WW-CANGMCCF.DGN
17-012A2-BS-BRDR.DGN
Reference files:
17-012A1H-SH10.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

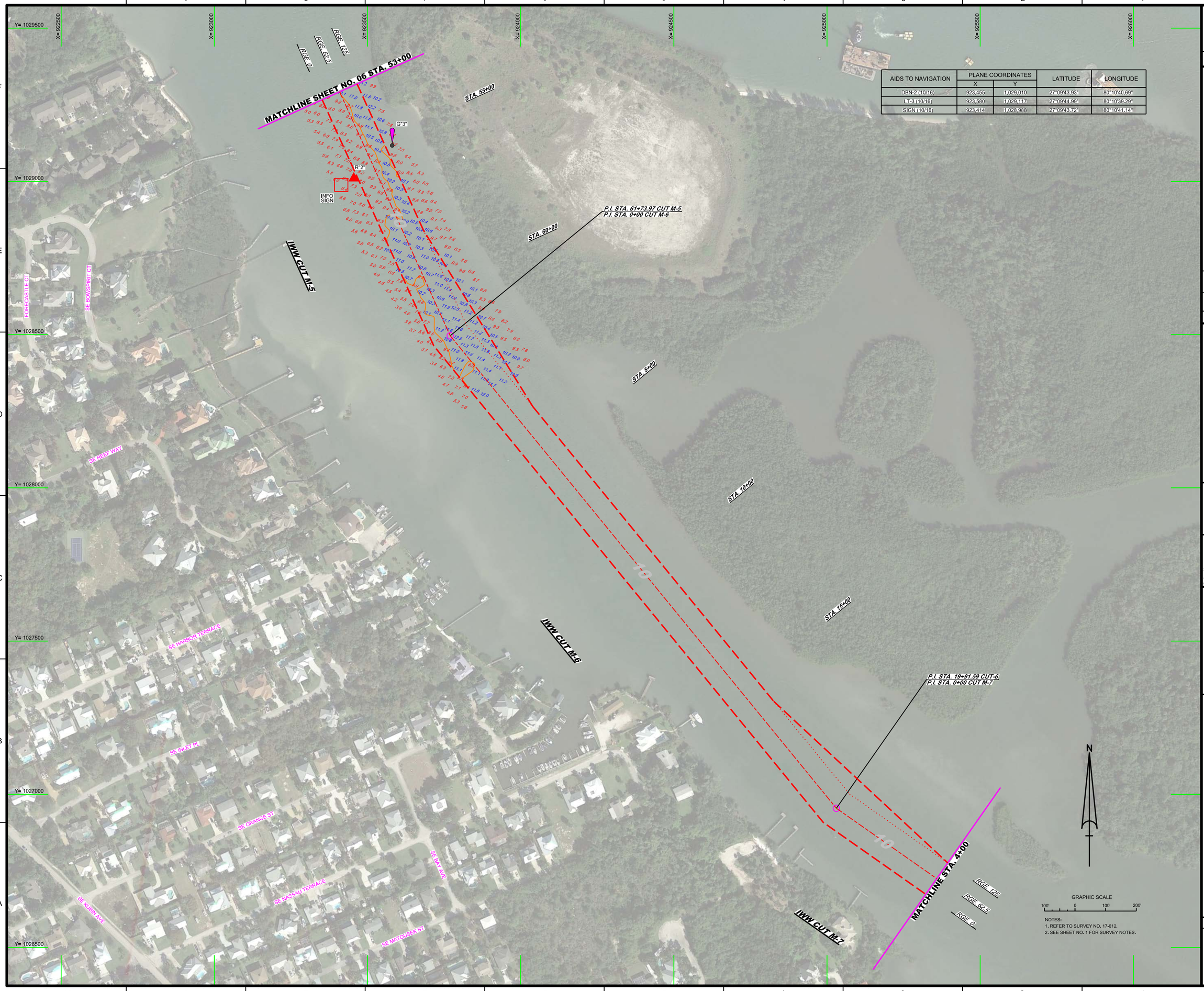
POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT
STA. 15+00 CUT M-3 THRU STA. 23+00 CUT M-4

PLAN

Scale: AS SHOWN

Drawing no.
10

SHEET 10 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-2 (10/16)	923,455	1,029,010	27°09'43.93"	80°10'40.69"
LT-3 (10/16)	923,580	1,029,117	27°09'44.99"	80°10'39.29"
SIGN (10/16)	923,414	1,028,988	27°09'43.72"	80°10'41.14"

NOTES:
1. REFER TO SURVEY NO. 17-012.
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. V9912EP-XX-X-XXXX
Date: OCT 2016

XXXXXXXX-XX-XXXXXX.DGN
XXXXXXXX-XX-XXXXXX.DGN
17-012-X-CON11LO.DGN
17-012-X-SOUNDING.DGN
17-012-X-SOUNDLMS.DGN
IWW-CANGMCCF.DGN
17-012-X-ESS-BNDRLD.DGN
Reference files:
17-012-VH-SHW09LD.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
7, 10 & 16-FOOT PROJECT
STA. 53+00 CUT M-5 THRU STA. 4+00 CUT M-7

PLAN

Scale: AS SHOWN

Drawing no.

11

SHEET 11 OF 11