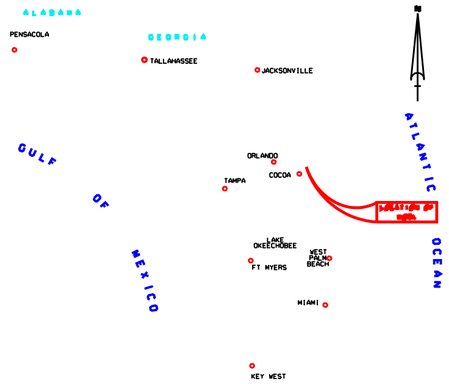
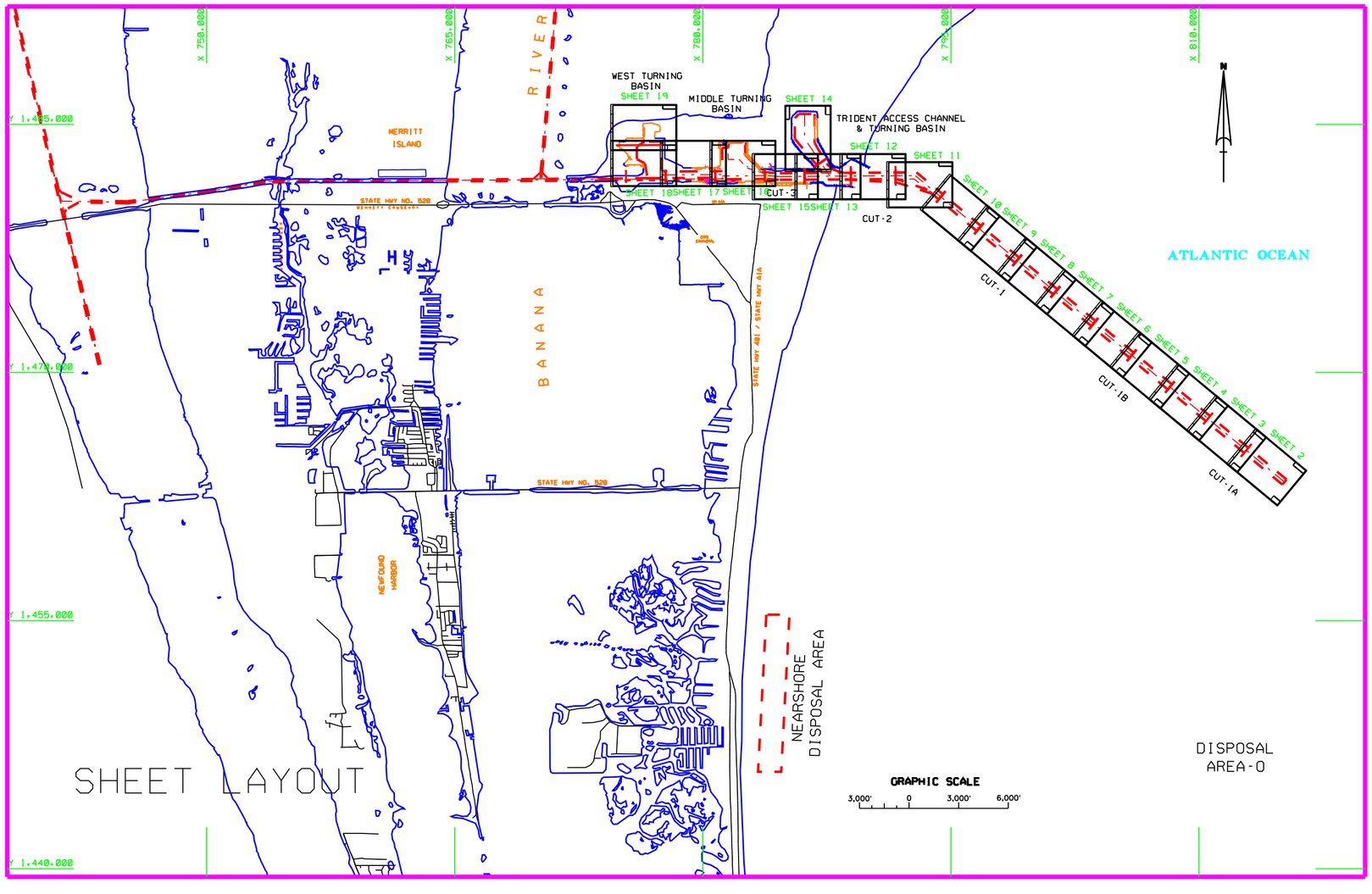
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY



SURVEY TABULATION				
VESSEL	AREA SURVEYED	DATE SURVEYED	STAFF LOCATION	BENCHMARK
WB-34	TAC. CUTS 1. 1A. 1B.	22-24 AUG 06	PILING @ PILOT BOAT DOCK	CABLE SOUTHPORT
WB-34	TAC. TTB	31 AUG 06	PILING @ PILOT BOAT DOCK	CABLE SOUTHPORT



SURVEY NOTES:

1. REFER TO SURVEY NO. 06-171.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 1.8 FEET BELOW NGVD 1929.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (-) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A STAFF SET ON A WOODEN PILING OF THE PILOTS BOAT DOCK, AND REFERENCED FROM BENCHMARK "CABLE SOUTH PORT".
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 AZIMUTHS ARE GRID, RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING AN ODOM DEPTH RECORDER WITH A 28KHZ (LOW FREQUENCY) TRANSDUCER.
9. AIDS TO NAVIGATION WERE COLLECTED FOR 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 AND IS NOT TO BE USED FOR NAVIGATION.
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, 1 JAN 02.

LEGEND	
*BM	BENCHMARK
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF

BENCHMARK	NGVD ELEV. (FT)
CABLE SOUTH PORT	13.22

NGVD 1929
1.8 FEET
M.L.L.W.

RELATIONSHIP BETWEEN NGVD 1929 AND NOAA MEAN LOWER LOW WATER TIDAL DATUM (1960-1978 EPOCH)

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

Dwg. No. DACW17-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

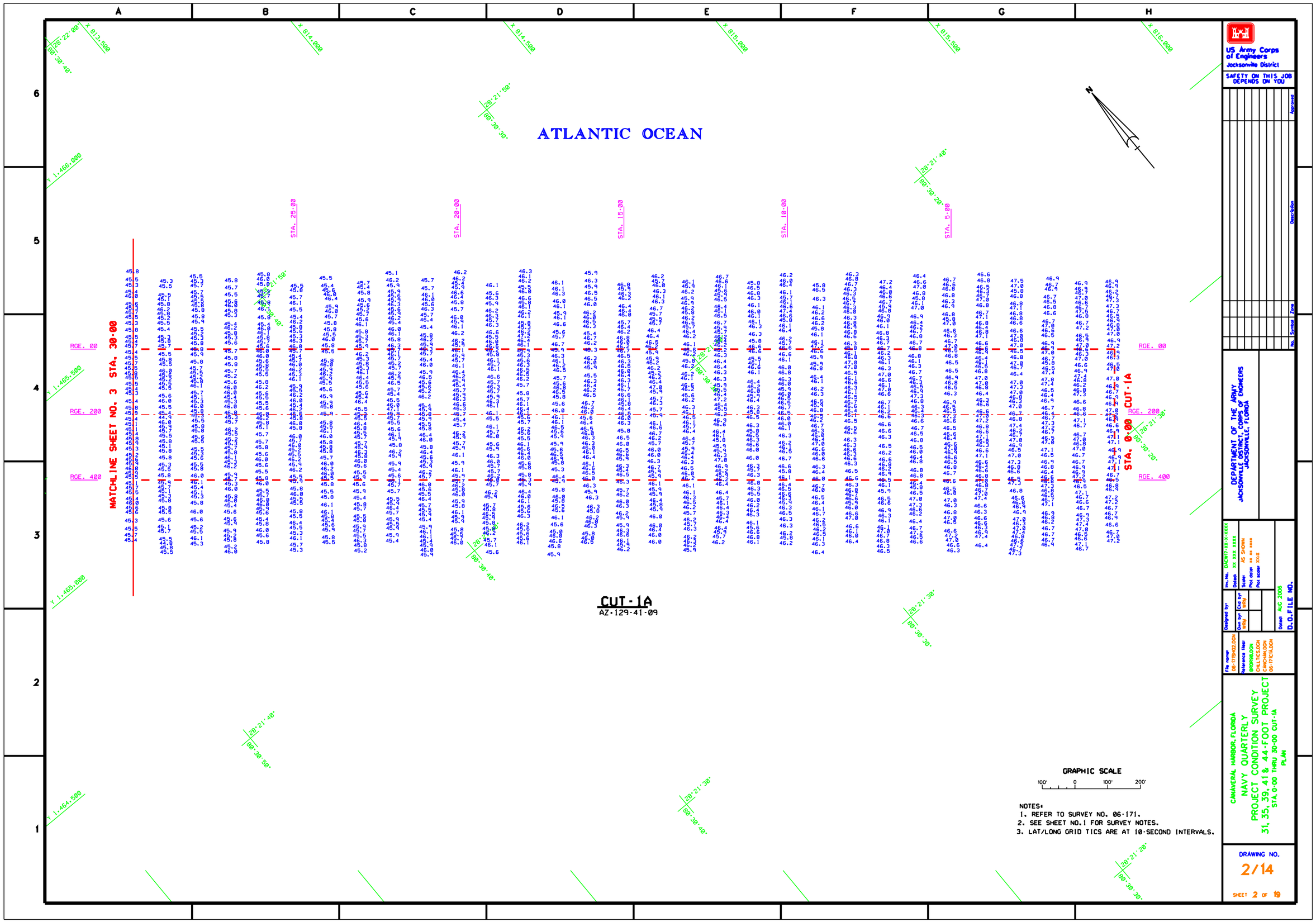
Designed by
Dwn by
Chkd by
Date: AUG 2006
D.O. FILE NO.

File name: 06-171SHO1.DGN
Reference files: BDORG0.DGN CANTOPO83.DGN NEWFLMAP.DGN CVLAYOUT.DGN CANCHAN.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
41 AND 44-FOOT PROJECT
COVER SHEET
PLAN

DRAWING NO.
1/14

SHEET 1 OF 19



NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

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

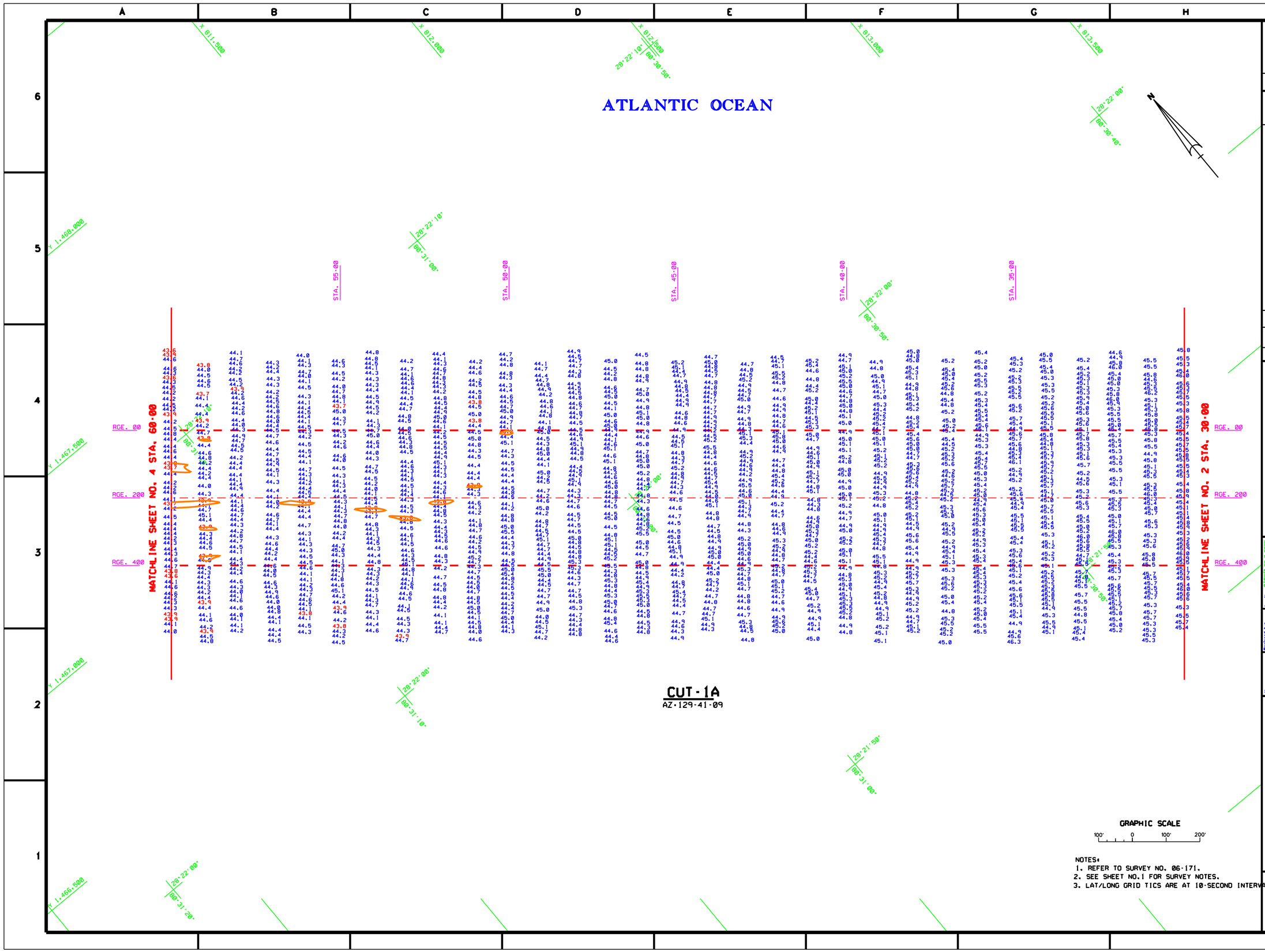
Designed by:
Dwn by: WRW
Ckd by: WRW
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXIX
Dated: AUG 2006
D.O.FILE NO.

File name: 06-171SH02.DGN
Reference files: BRDR98.DGN CHLLTICS.DGN CANCHAN.DGN 06-171C1A.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 0+00 THRU 30+00 CUT-1A
PLAN

DRAWING NO.
2/14

SHEET 2 OF 19



NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

Designed by: | Dwn by: WRM | Ckd by: WRM | Inv. No. DACW17-XX-X-XXXX | Dated: XX XXX XXXX | Scale: AS SHOWN | Plot date: xx xx xxxx | Plot scale: XXIX

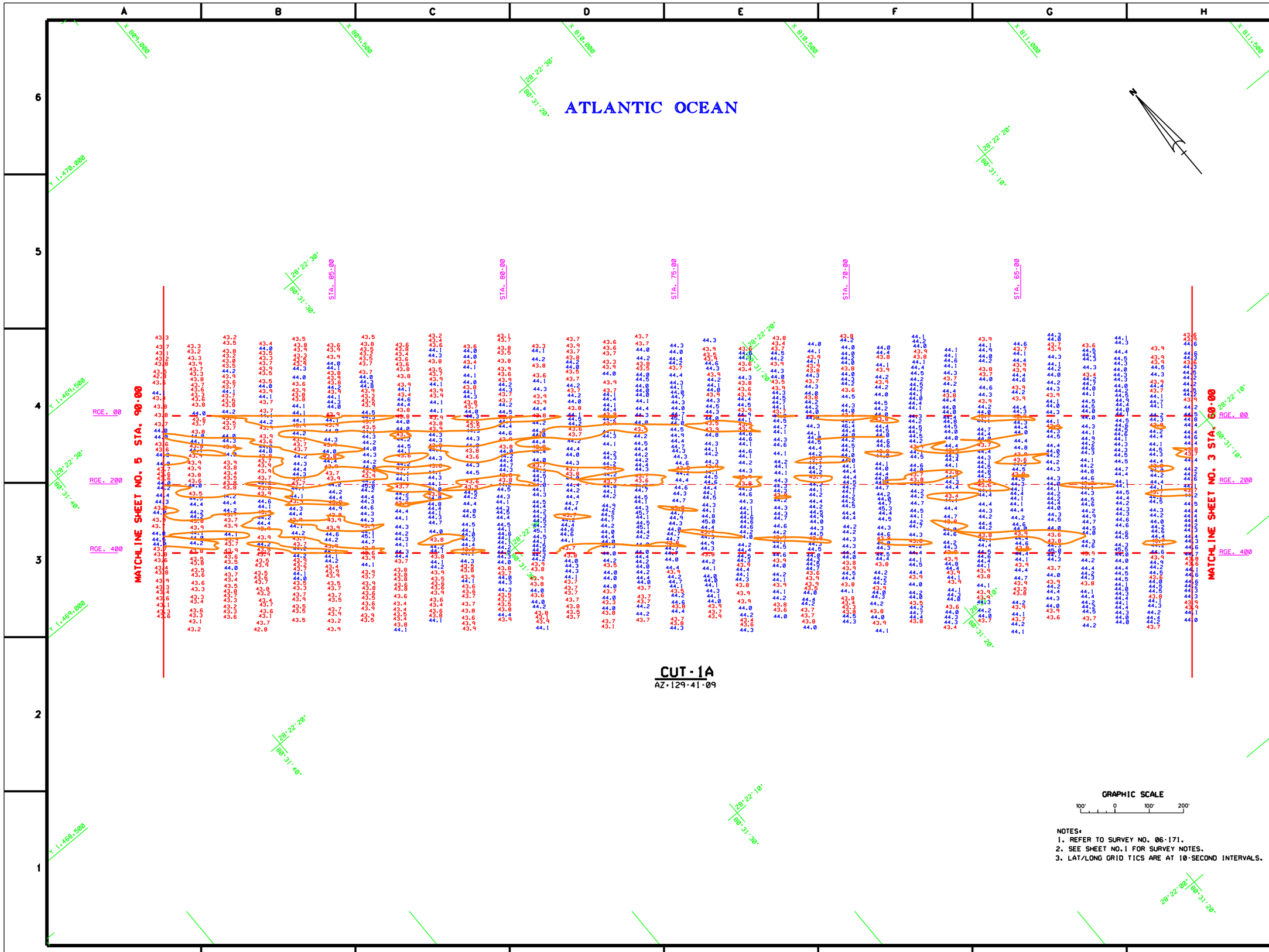
File name: 06-171SH03.DGN
Reference files: BRDR98.DGN CANCHAN.DGN CNLTICS.DGN 06-171CU.DGN CONA4.DGN

Dated: AUG 2006
D.O. FILE NO.

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 30+00 THRU STA. 60+00 CUT-1A
PLAN

DRAWING NO.
3/14

SHEET 3 OF 19



NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

Designed by:
Dwn by: WRW
Ckd by: WRW

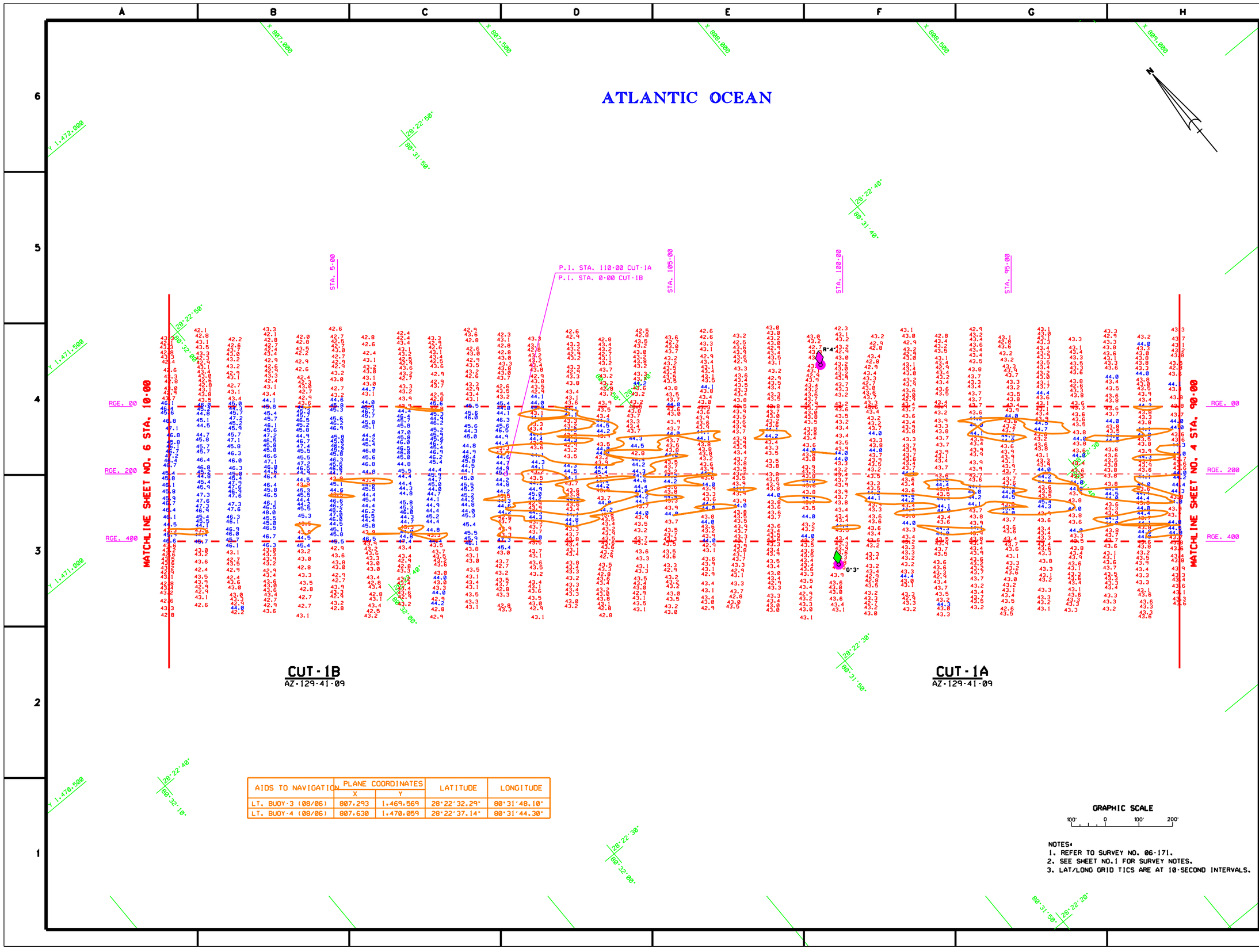
Date: AUG 2006
D.O.FILE NO.

File name: 06-171SH04.DGN
Reference files: BRDR08.DGN CANCHAN.DGN CHL_TICS.DGN 06-171C1A.DGN CON44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 60+00 THRU 90+00 CUT-1A
PLAN

DRAWING NO.
4/14

SHEET 4 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (08/06)	807,293	1,469,569	28°22'32.29"	80°31'48.10"
LT. BUOY-4 (08/06)	807,630	1,470,059	28°22'37.14"	80°31'44.30"

NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

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

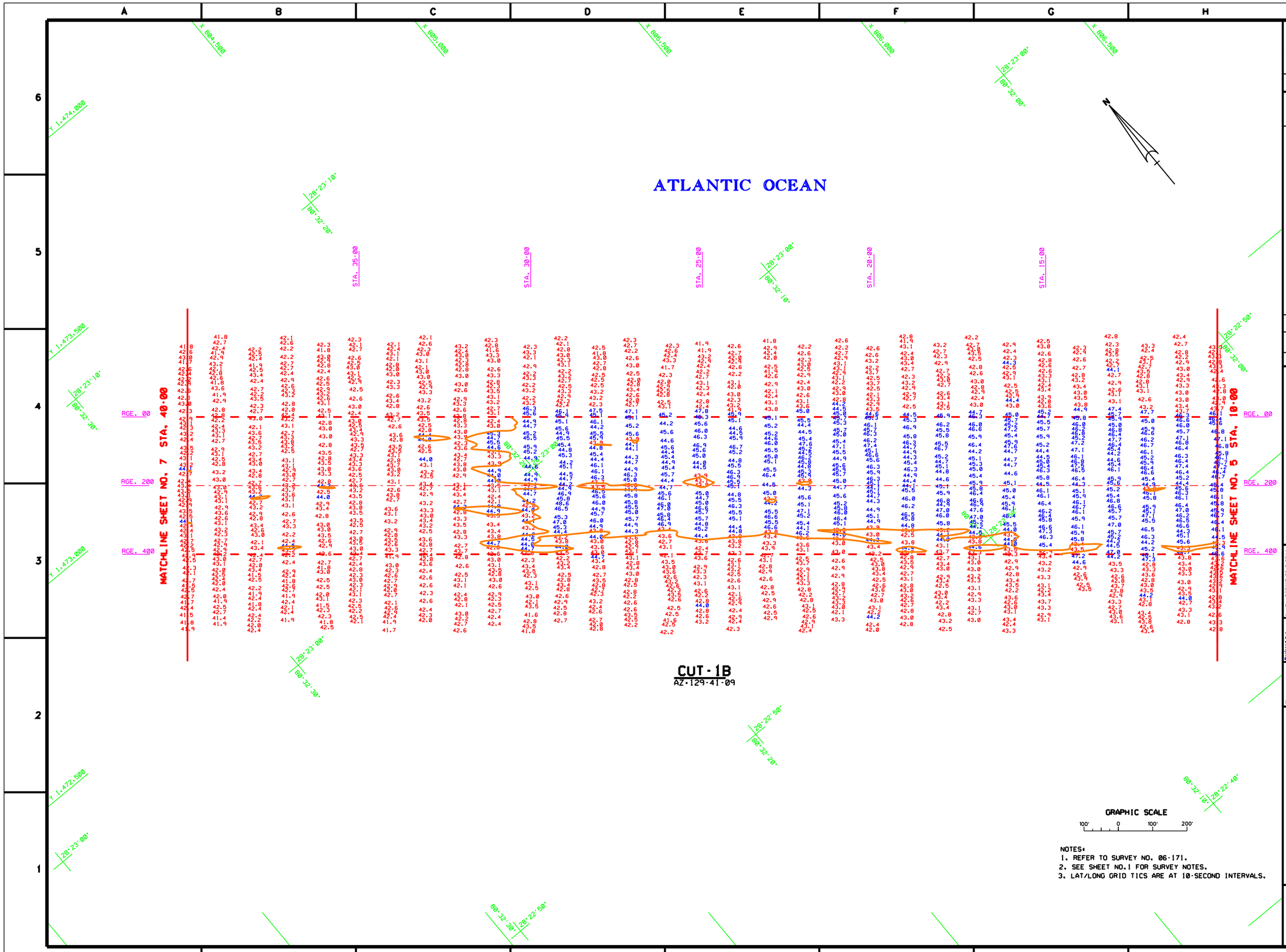
Designed by: Dwn by: WRM Ckd by: WRM
Inv. No. Dated: Scale: Plot date: Plot scale:
Date: AUG 2006
D.O. FILE NO.

File name: 06-171SHD5.DGN
Reference files: BRDR98.DGN 06-171C1A.DGN CHLLTICS.DGN CANCHAN.DGN 06-171C1B.DGN 06-171NAV.DGN CON44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 90+00 CUT-1A THRU STA. 10+00 CUT-1B
PLAN

DRAWING NO.
5/14

SHEET 5 OF 19



NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

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

Inv. No. DACW17-99-C-0044
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

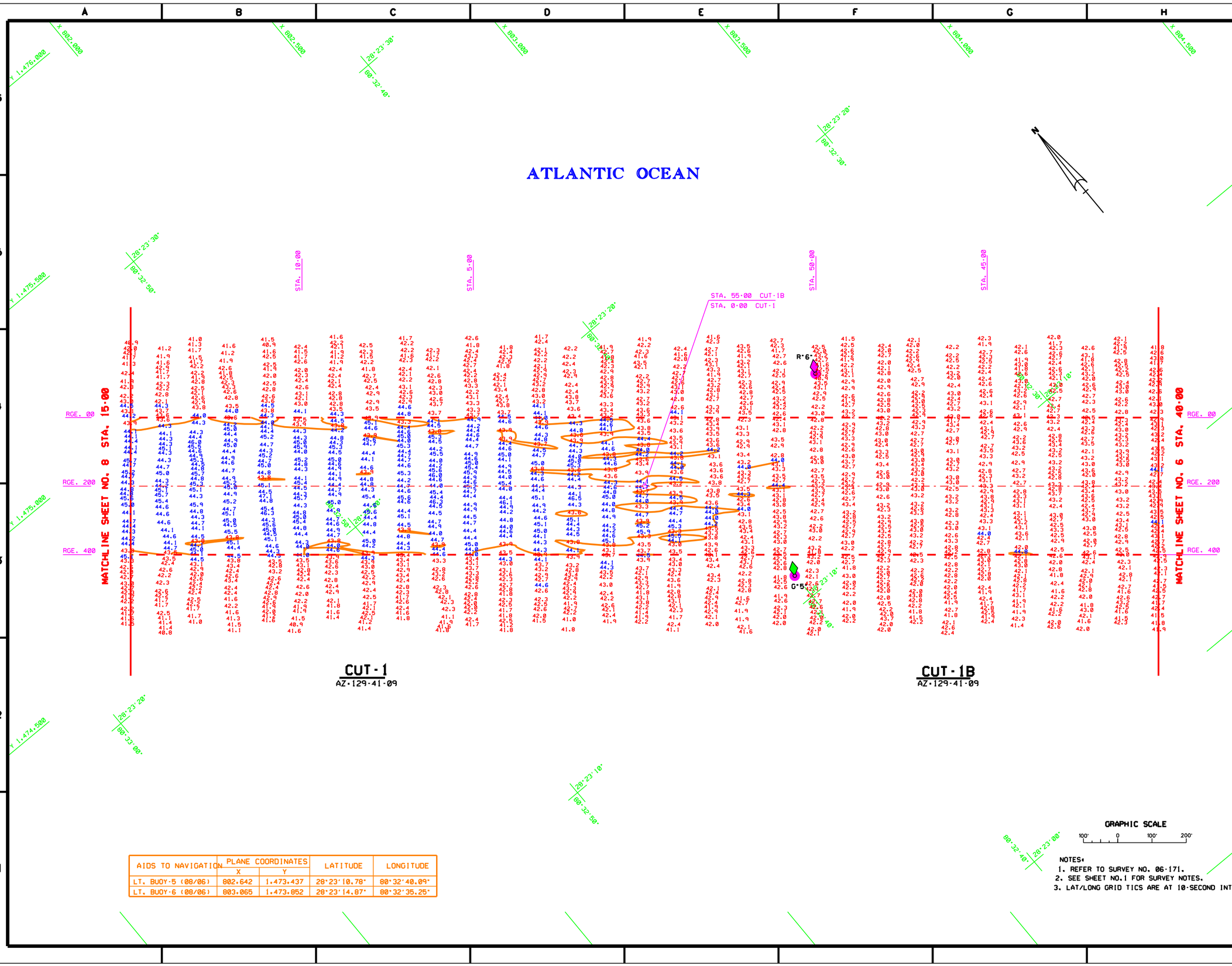
Designed by:
Dwn by: WRW
Ckd by: WRW
Date: aug 2006
D.O. FILE NO.

File name: 06-171SH06.DGN
Reference files: BRDR98.DGN CANCHAN.DGN CHLL TICS.DGN 06-171C1B.DGN CON44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 10+00 THRU STA. 40+00 CUT-1B
PLAN

DRAWING NO.
6/14

SHEET 6 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (08/06)	802.642	1,473.437	28°23'10.78"	80°32'40.09"
LT. BUOY-6 (08/06)	803.065	1,473.852	28°23'14.87"	80°32'35.25"

NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

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

Inv. No. DACW17-99-C-0044
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

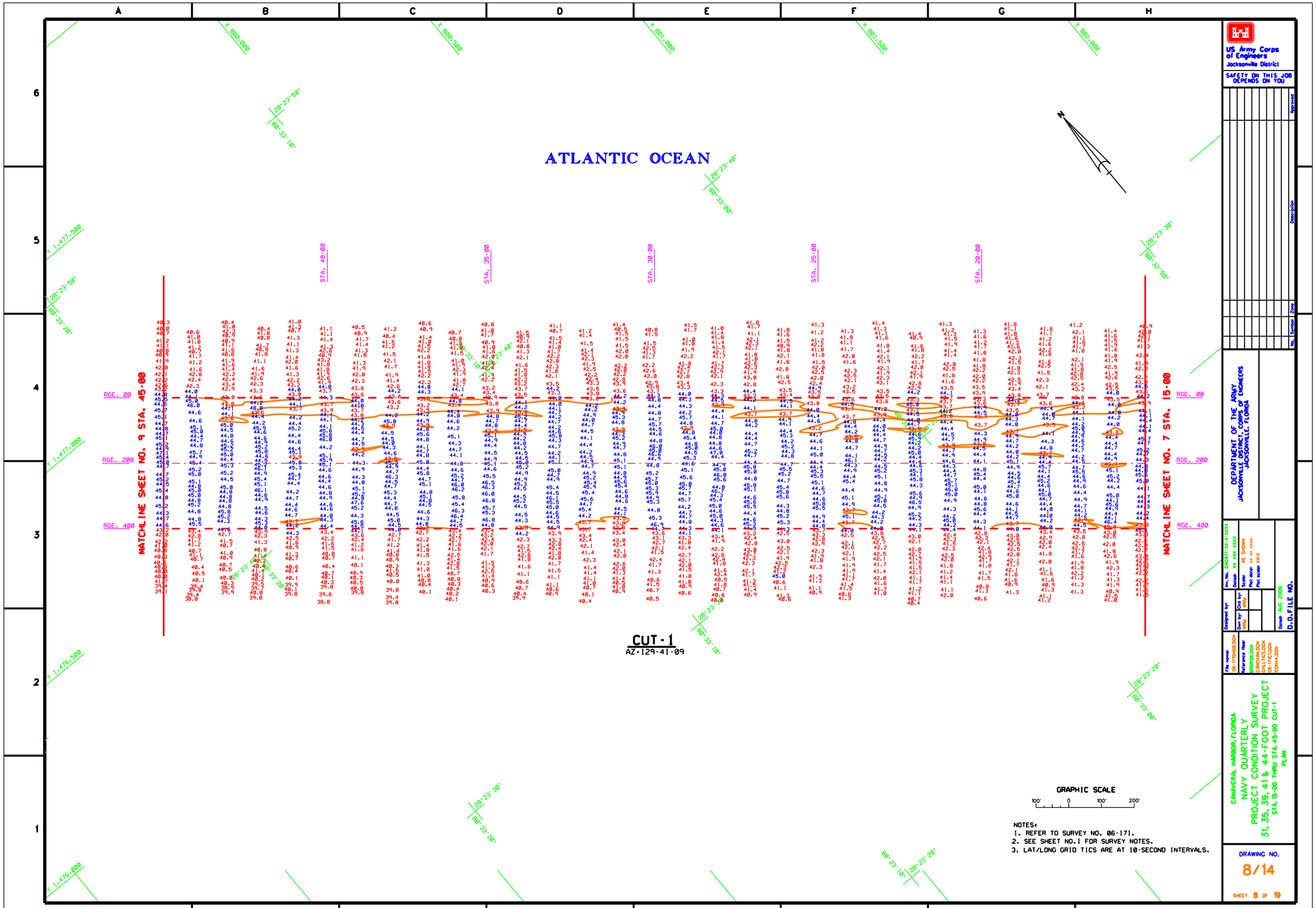
Designed by:
Dwn by: WRW
Ckd by: WRW
Date: AUG 2006
D.O.FILE NO.

File name: 06-171SH07.DGN
Reference files: BRDRR08.DGN CANCHAN.DGN CHLTICS.DGN 06-171C1B.DGN 06-171C1.DGN 06-171NAV.DGN CON44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 40+00 CUT-1B THRU STA. 15+00 CUT-1
PLAN

DRAWING NO.
7/14

SHEET 7 OF 19



NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

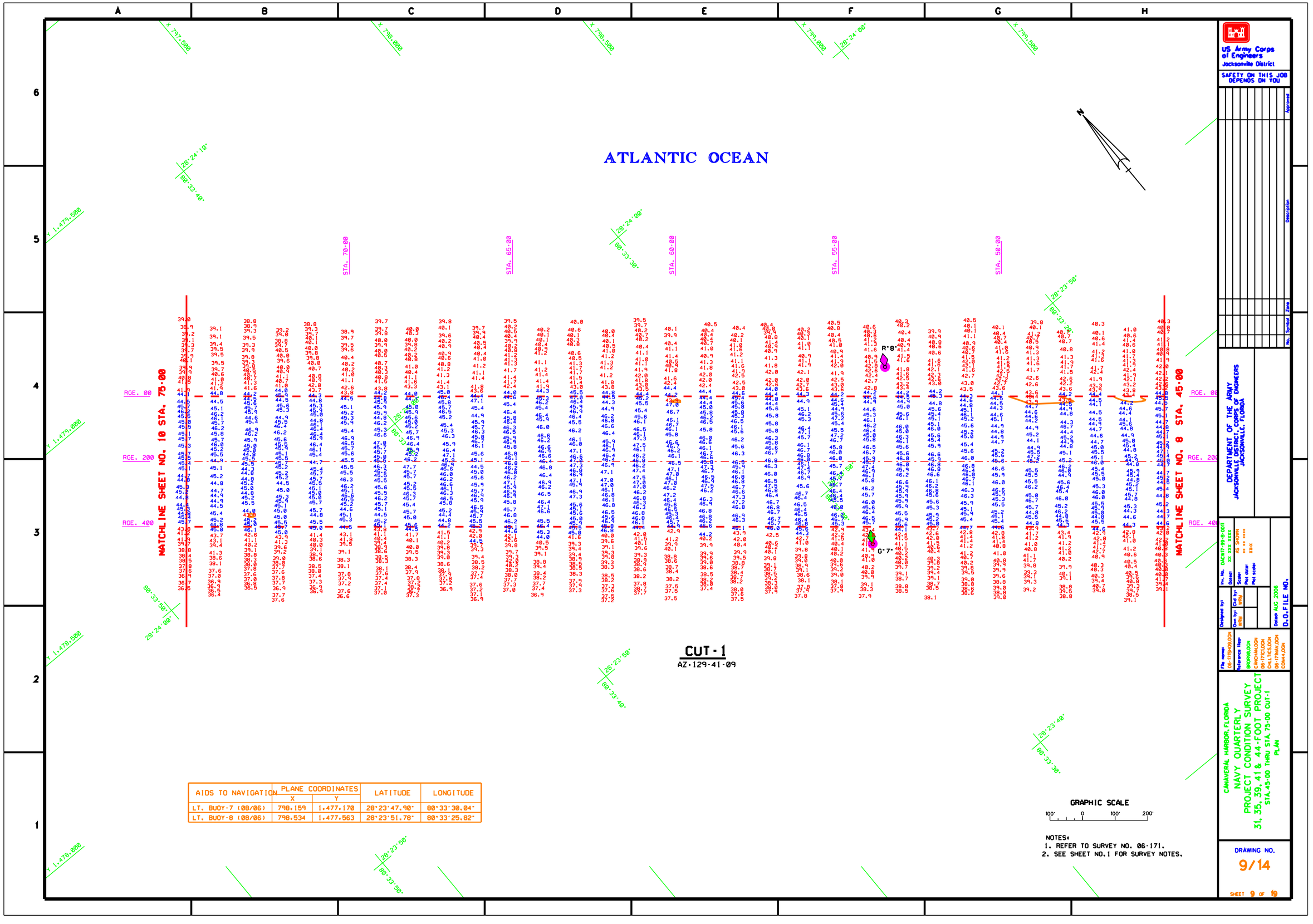
Designed by: Dwn by: WRW Ckd by: WRW
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Dated: AUG 2006
D.O. FILE NO.

File name: 06-171SH08.DGN
Reference files: BRDR98.DGN CANCHAN.DGN CHLLTICS.DGN 06-171CL.DGN CON44.DGN

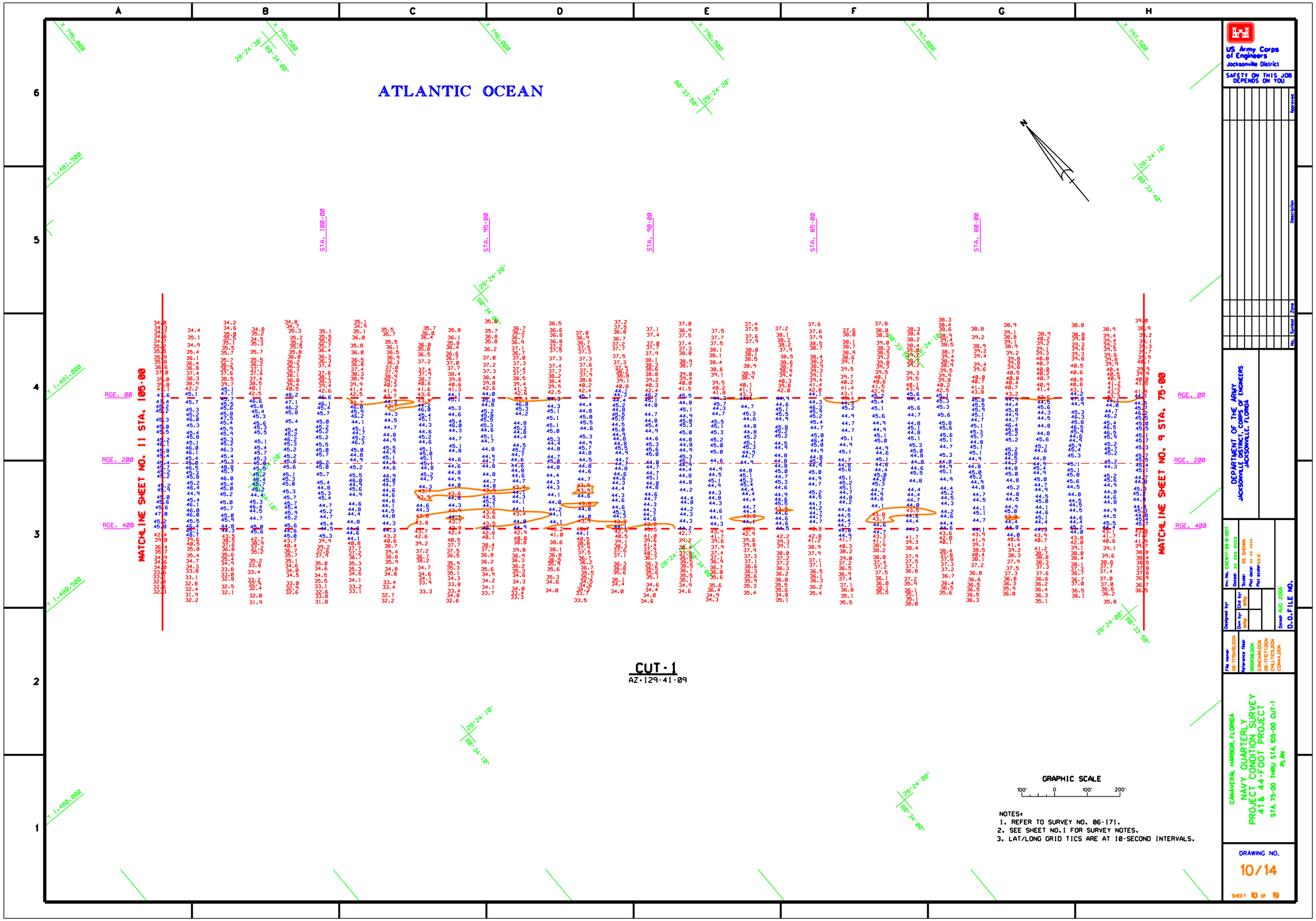
CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 15+00 THRU STA. 45+00 CUT-1
PLAN

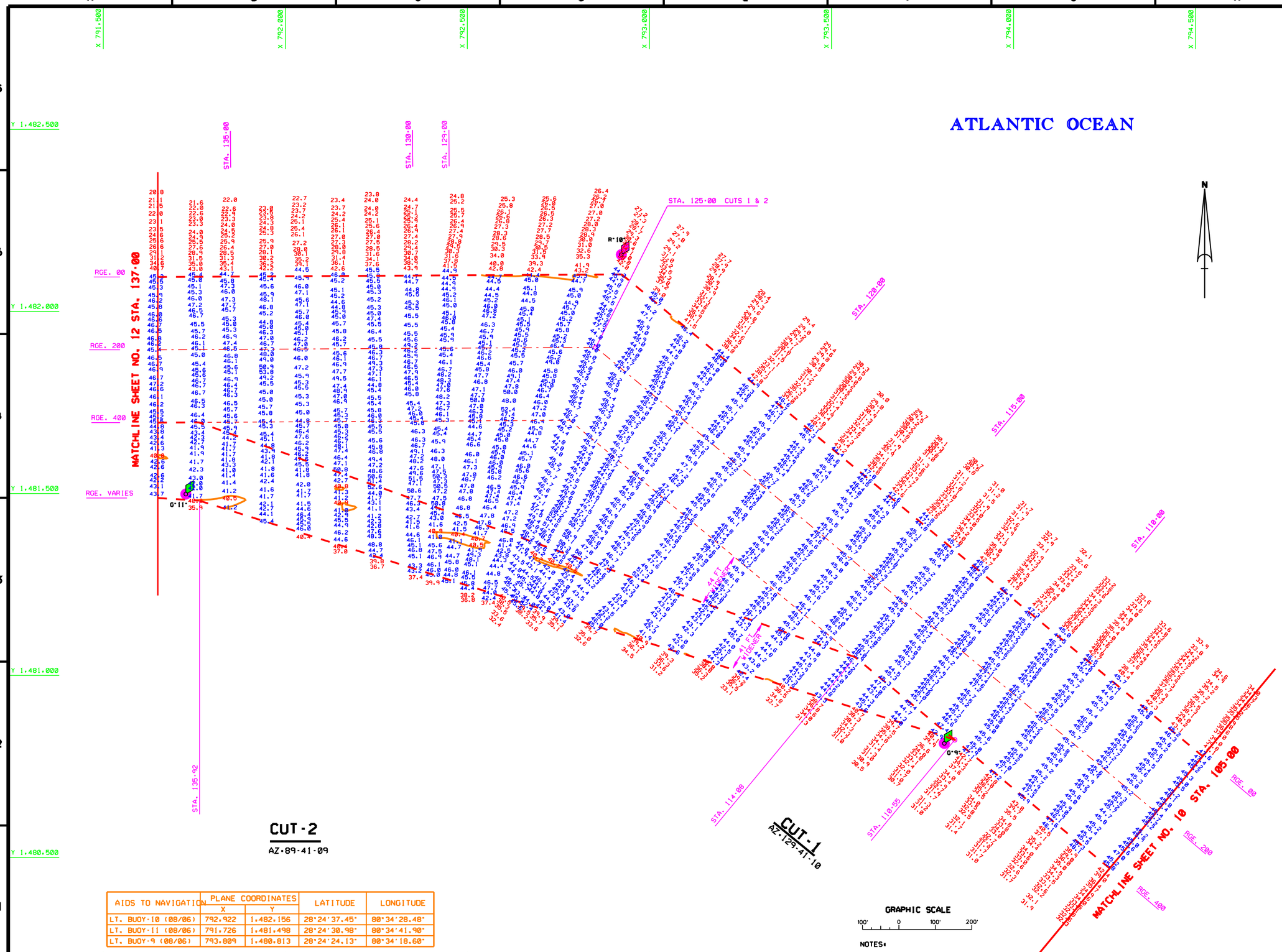
DRAWING NO.
8/14

SHEET 8 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (08/06)	798.159	1.477.170	28°23'47.90"	80°33'30.04"
LT. BUOY-8 (08/06)	798.534	1.477.563	28°23'51.78"	80°33'25.82"


ATLANTIC OCEAN
MATCHLINE SHEET NO. 11 STA. 105+00
MATCHLINE SHEET NO. 9 STA. 75+00
STA. 100+00
STA. 95+00
STA. 90+00
STA. 85+00
STA. 80+00
RGE. 00
RGE. 200
RGE. 400
CUT-1
AZ-129-41-09
GRAPHIC SCALE
100' 0 100' 200'
NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.
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
CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
41 & 44-FOOT PROJECT
STA. 75+00 THRU STA. 105+00 CUT-1
PLAN
DRAWING NO.
10/14
SHEET 10 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (08/06)	792.922	1.482.156	28°24'37.45"	80°34'28.48"
LT. BUOY-11 (08/06)	791.726	1.481.498	28°24'30.98"	80°34'41.90"
LT. BUOY-9 (08/06)	793.809	1.480.813	28°24'24.13"	80°34'18.60"

NOTES:

1. REFER TO SURVEY NO. 06-171.
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	Approved

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

Inv. No. DACW17-99-B-0011
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX%

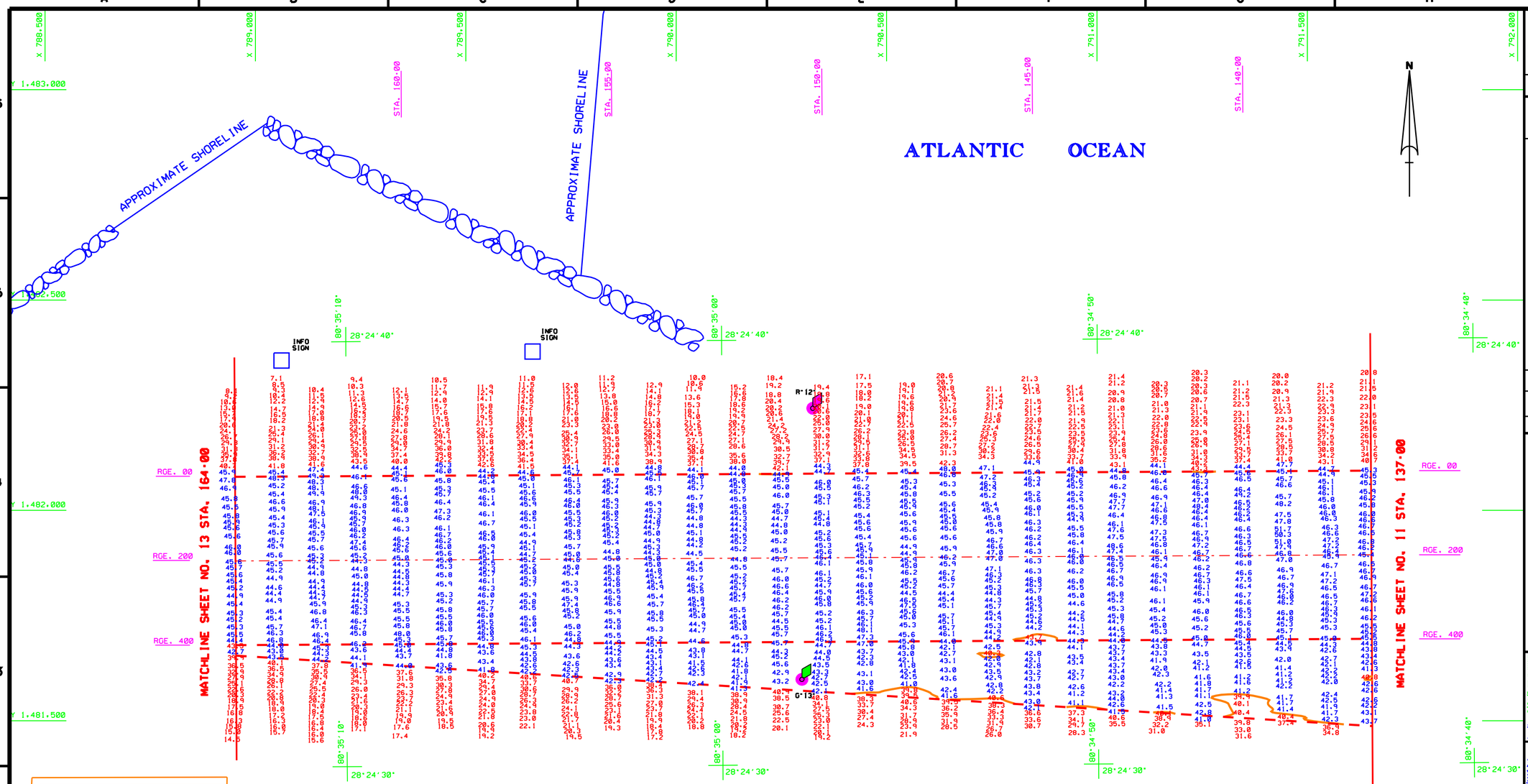
Designed by:
Dwn by: TJTO
Ckd by: WMW
Date: AUG 2006
D.O. FILE NO.

File name: 06-175SHT1.DGN
Reference files: BROSRB.DGN CANCHAN.DGN 06-175CLOR.DGN 06-175NAV.DGN 06-175TOPO.DGN CONTOUR.DGN CON44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
41 AND 44-FOOT PROJECT
STA. 105+00 CUT-1 THRU STA. 137+00 CUT-2
PLAN

DRAWING NO.
11/14

SHEET 11 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-12 (08/06)	790.324	1.482.242	28°24'38.40"	80°34'57.57"
LT. BUOY-13 (08/06)	790.298	1.481.598	28°24'32.02"	80°34'57.88"
SIGN (08/06)	789.658	1.482.377	28°24'39.76"	80°35'05.02"
SIGN (08/06)	789.062	1.482.356	28°24'39.57"	80°35'11.71"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

CUT-2
AZ-89-41-09

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

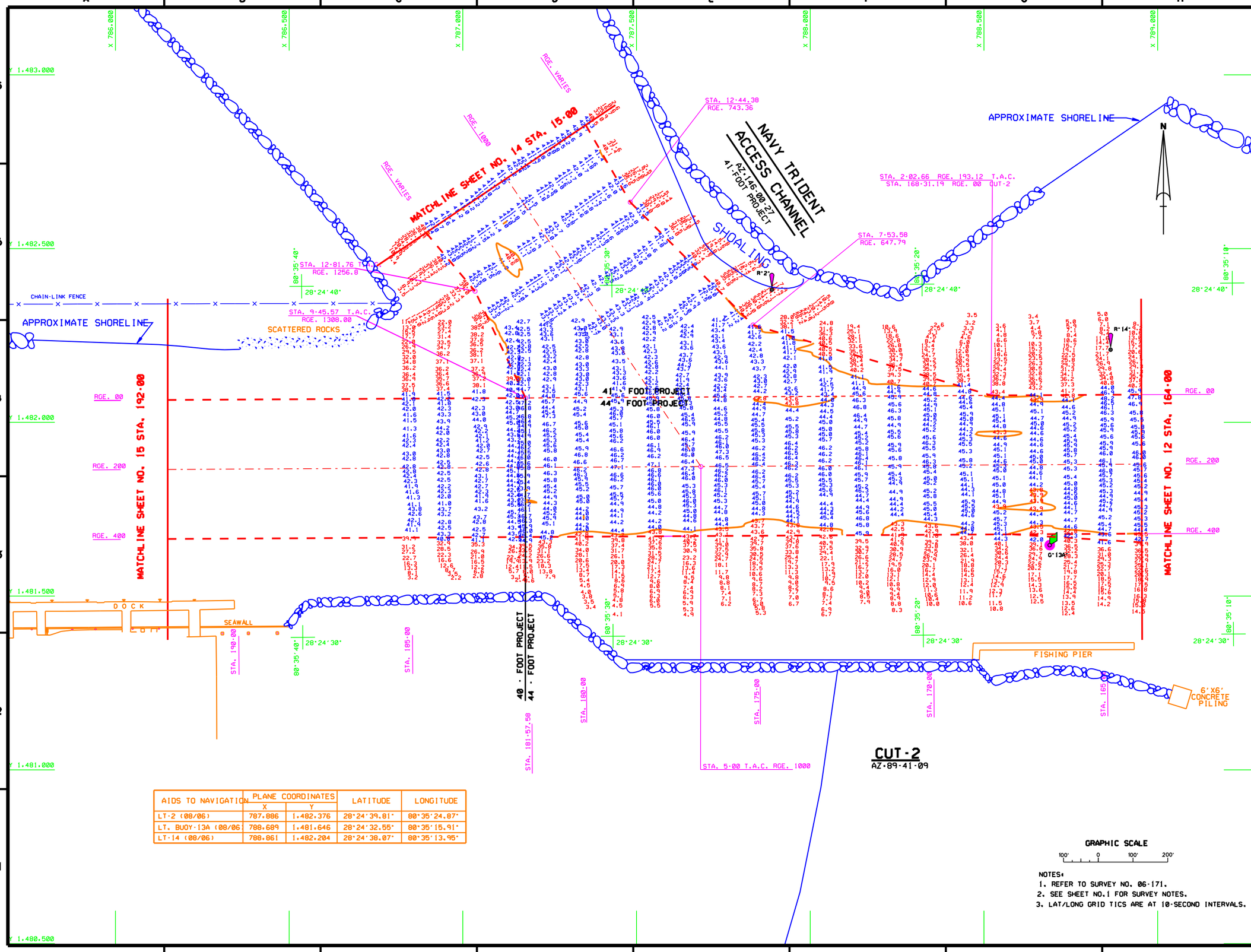
Inv. No. DACW17-XX-X-XXXX
Datum XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Designed by
Dwn by KMW
Ckd by KMW
Date: AUG 2006
D.O. FILE NO.

File name 06-171SH12.DGN
Reference files: BKGRND.DGN CANCHAL.DGN CESTORE.DGN CANTOPO8.DGN 06-171C2.DGN CONALL.DGN CONALL.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 137+00 THRU STA. 164+00 CUT-2
PLAN

DRAWING NO.
12/14

SHEET 12 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-2 (08/06)	787.886	1.482.376	28°24'39.81"	80°35'24.87"
LT. BUOY-13A (08/06)	788.689	1.481.646	28°24'32.55"	80°35'15.91"
LT-14 (08/06)	788.861	1.482.204	28°24'38.07"	80°35'13.95"

NOTES:
1. REFER TO SURVEY NO. 06-171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

Inv. No. DACW17-XX-X-XXXX
Datum: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

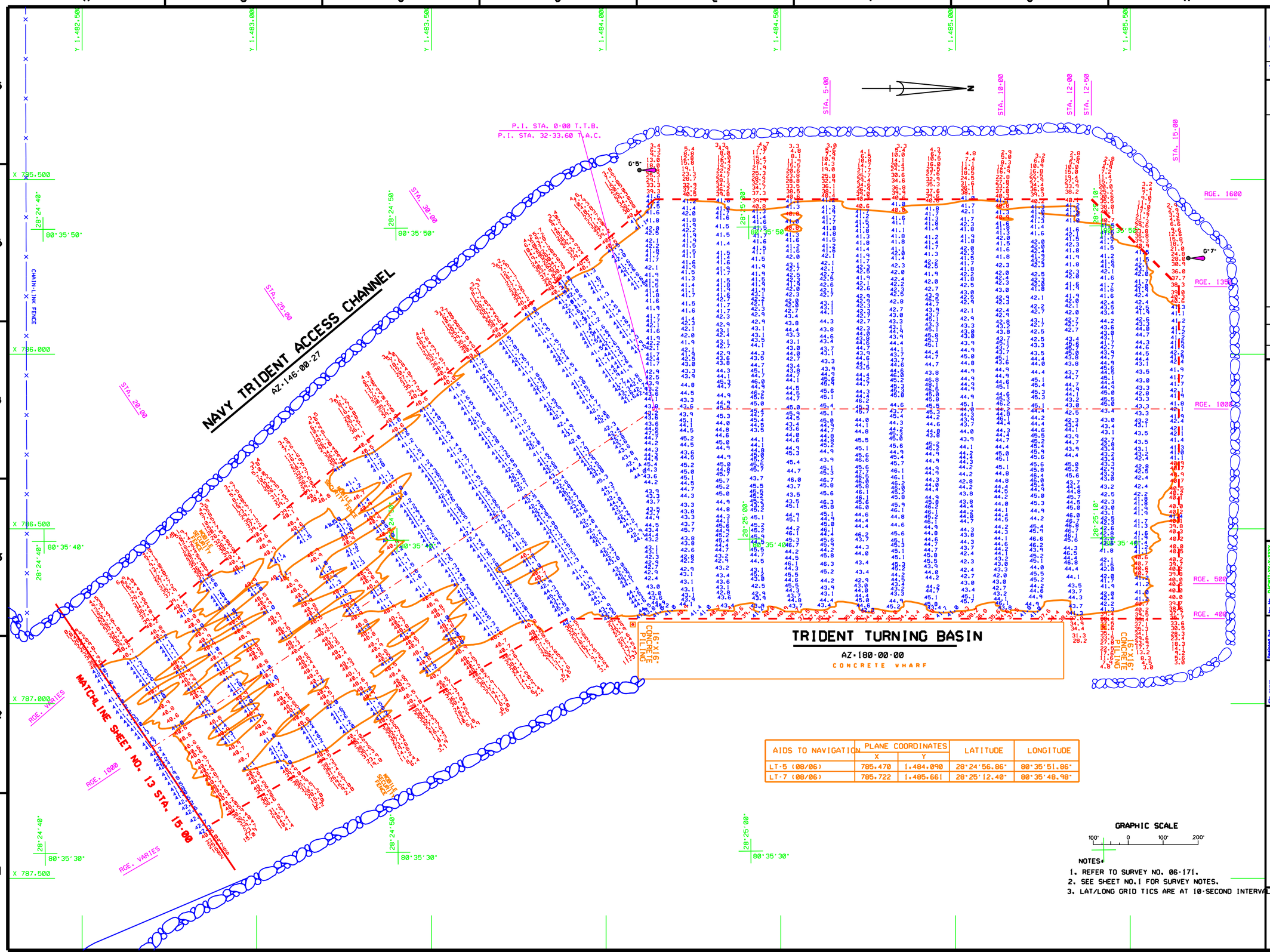
Designed by: RMB
Dwn by: RMB
Ckd by: RMB
Date: AUG 2006
D.O.F.ILE NO.

File name: 06-171SH13.DGN
Reference files: BEORSEL.DGN CANCHAN.DGN 06-171NAV.DGN 06-171BLK.DGN 06-171CT2.DGN 06-171TC2.DGN CONTOUR.DGN COM4.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 164+00 THRU STA. 192+00 CUT-2
PLAN

DRAWING NO.
13/14

SHEET 13 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT·5 (08/06)	785.470	1.484.090	28°24'56.86"	80°35'51.86"
LT·7 (08/06)	785.722	1.485.661	28°25'12.40"	80°35'48.98"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 06·171.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10·SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

Des. No. DACW17-XX-C-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by
Dwn by: WRB
Ckd by: WRB

Date: AUG 2006
D.O. FILE NO.

File name: 06-171SHEL.DGN
Reference files: BROSB.DGN, C-NCHAN.DGN, CHL1YCS.DGN, CHL1YCS.DGN, CMTOPO8.DGN, CMTOPO8.DGN, 06-1911AC.DGN, 06-1911AC.DGN, CON-1.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
TRIDENT ACCESS CHANNEL & TURNING BASIN
PLAN

DRAWING NO.
14/14

SHEET 14 OF 19