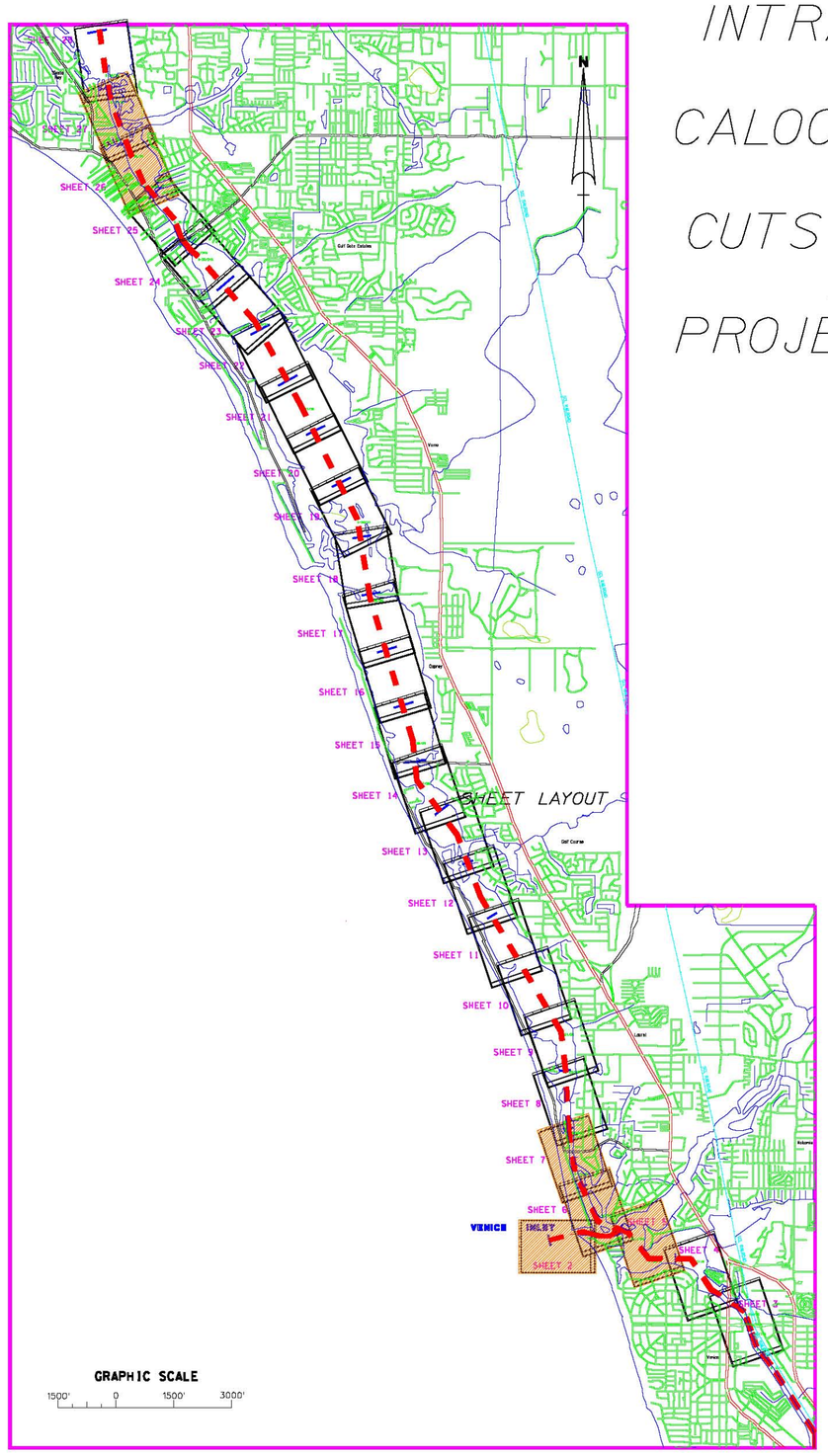
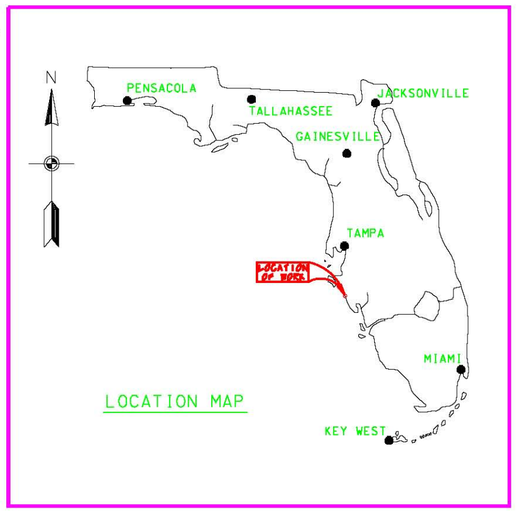
VENICE INLET, CASEYS PASS & INTRACOASTAL WATERWAY, CUTS 1-4 & CALOOSAHATCHEE RIVER TO ANCLOTE RIVER CUTS S-19 THRU S-21 AND S-36 THRU S-37 PROJECT CONDITION SURVEY





BENCHMARK	NAVD ELEV. (FT)
R-115 RESET	4.30
NOS 6045C 1977	3.98

VENICE INLET

NAVD 1988

1.45 feet

M.L.L.W.

Relationship between NAVD 1988 and NOAA Mean Lower Low Water Tidal Datum (1960-1978 epoch)

INTRACOASTAL WATERWAY CUT S-15 THRU S-25

NAVD 1988

1.35 feet

M.L.L.W.

Relationship between NAVD 1988 and NOAA Mean Lower Low Water Tidal Datum (1960-1978)

INTRACOASTAL WATERWAY CUT S-36 THRU S-37

NAVD 1988

1.46 feet

M.L.L.W.

Relationship between NAVD 1988 and NOAA Mean Lower Low Water Tidal Datum (1960-1978)

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

SURVEY NOTES:

1. REFER TO SURVEY NO. 08-104.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW). REFER TO TABLES SHOWN FOR DIFFERENCES BELOW NAVD 1988.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM STAFFS SET ON A WOODEN PILING OF RDB-2A AND REFERENCED FROM BENCHMARK "R-115 RESET" FOR CUTS 1-4 AND S-19 THRU S-21, AND FROM A MEASURE DOWN POINT IN THE VICINITY OF, AND REFERENCED FROM BENCHMARK "NOS 6045C 1977" FOR CUTS S-36 AND S-37.
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 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 A ROSS SMART SOUNDER DEPTH RECORDER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
GANNET II	23-24 APR 2008	IWW CUTS S-19 - S-21, IWW CUTS S-36, S-37, VENICE INLET CUTS 1-4

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 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 SURVEYS, 01 APR 04.

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. DACW17-2X-S-XXXX
Dataid XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXXX

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

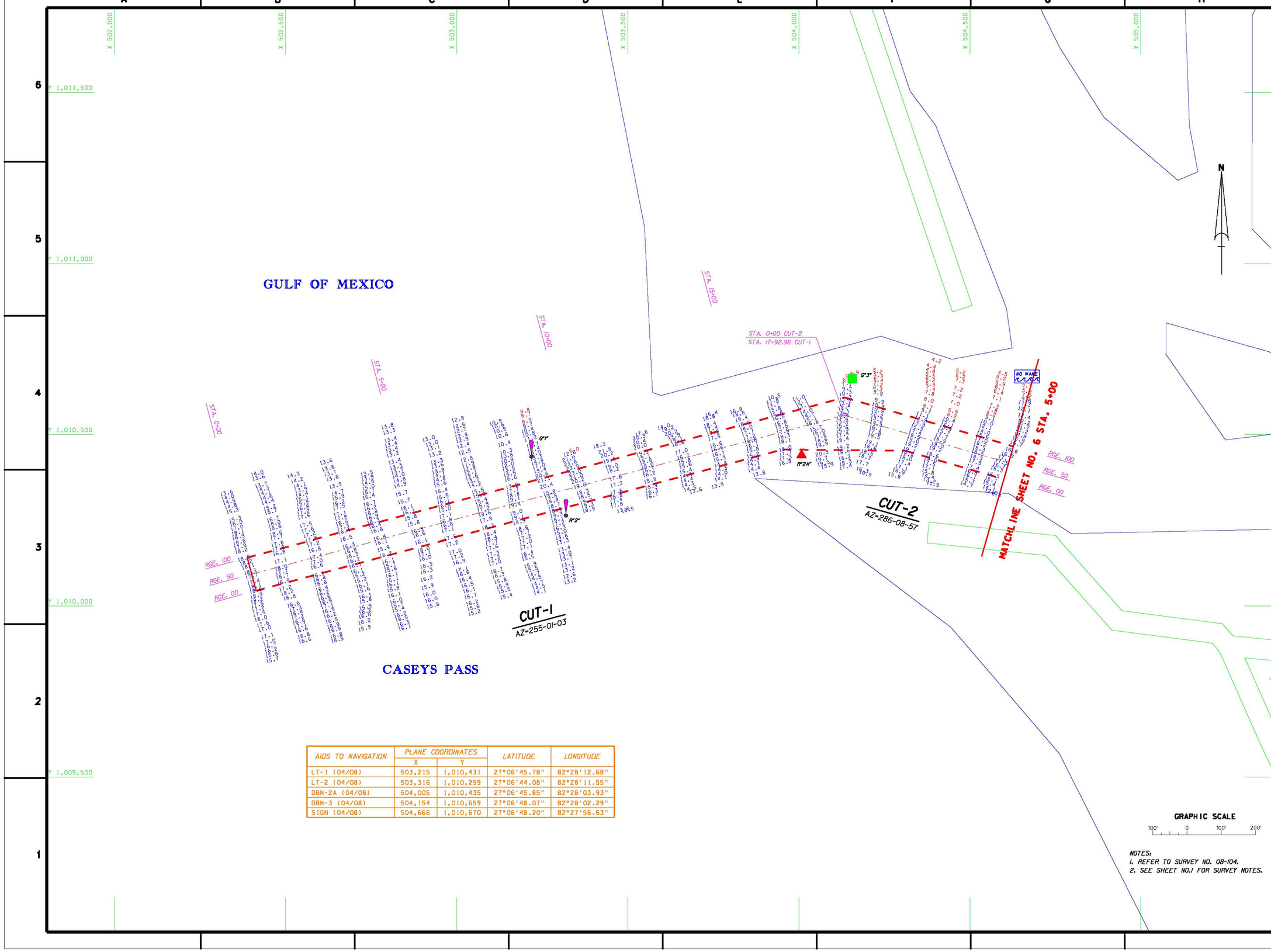
Dated APR 2008
D.O.FILE NO. XXX-XX.XXX

File name: 08-104SHOLDGN
Reference files: BRDRBL.DGN CHANCRAW83.DGN TOPOCRAW83.DGN VEN_CH83.DGN LAYOUT.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
INDEX, LOCATION AND VICINITY PLAN

DRAWING NO.
1/7

SHEET 1 OF 28



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-1 (04/08)	503,215	1,010,431	27°06'45.78"	82°28'12.68"
LT-2 (04/08)	503,316	1,010,259	27°06'44.08"	82°28'11.55"
DBN-2A (04/08)	504,005	1,010,435	27°06'45.85"	82°28'03.93"
DBN-3 (04/08)	504,154	1,010,659	27°06'48.07"	82°28'02.29"
SIGN (04/08)	504,666	1,010,670	27°06'48.20"	82°27'56.83"

NOTES:
1. REFER TO SURVEY NO. 08-104.
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. JAC97T-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

Designed by: WMJ
Dwn by: WMJ
Ckd by: WMG

Dated: APR 2008
D.O.F.ILE NO.

File name: 08-104SHX2.DGN
Reference files: BROWB.DGN VEAL_CHL.DGN TOPOCAR83.DGN 08-104CS.DGN 08-104C2.DGN 08-104NAV.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER, FL
PROJECT CONDITION SURVEY
9-FOOT PROJECT
STA. 0+00 CUT-1 THRU STA. 5+00 CUT-2
PLAN

DRAWING NO.
2/7

SHEET 2 OF 28

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-13 (04/08)	507,518	1,009,026	27°06'32.02"	82°27'25.00"
DBN-14 (04/08)	507,343	1,009,538	27°06'37.09"	82°27'26.96"
DBN-15 (04/08)	506,683	1,010,118	27°06'42.81"	82°27'34.29"
LT-16 (04/08)	506,489	1,010,529	27°06'46.87"	82°27'36.45"
DBN-17 (04/08)	506,306	1,010,436	27°06'45.94"	82°27'38.47"
PRIV BUOY-1 (04/08)	507,160	1,009,352	27°06'35.24"	82°27'28.98"
PRIV BUOY-2 (04/08)	507,119	1,009,464	27°06'36.35"	82°27'29.44"
PRIV BUOY-3 (04/08)	507,051	1,009,313	27°06'34.85"	82°27'30.18"
PRIV BUOY-4 (04/08)	506,971	1,009,423	27°06'35.93"	82°27'31.07"
SIGN (04/08)	507,103	1,009,327	27°06'34.99"	82°27'29.61"
SIGN (04/08)	506,731	1,010,369	27°06'45.30"	82°27'33.77"
SIGN (04/08)	506,511	1,010,227	27°06'43.88"	82°27'36.19"
SIGN (04/08)	507,285	1,009,922	27°06'40.89"	82°27'27.62"
SIGN (04/08)	507,179	1,009,838	27°06'40.05"	82°27'28.79"
SIGN (04/08)	507,007	1,010,075	27°06'42.40"	82°27'30.71"

MATCHLINE SHEET NO. 4 STA. 8+00

MATCHLINE SHEET NO. 6 STA. 4+00

CUT S-18
AZ=90-00-00

CUT S-19
AZ=141-45-00

CUT S-20
AZ=109-54-34

P.I. STA. 0+00 CUT S-19
P.I. STA. 21+79.44 CUT S-18

P.I. STA. 0+00 CUT S-20
P.I. STA. 17+42.52 CUT S-19

STA. 5+00
STA. 10+00
STA. 15+00
STA. 20+00

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 08-104.
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-XX-X-XXXX
Date& XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXXX

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

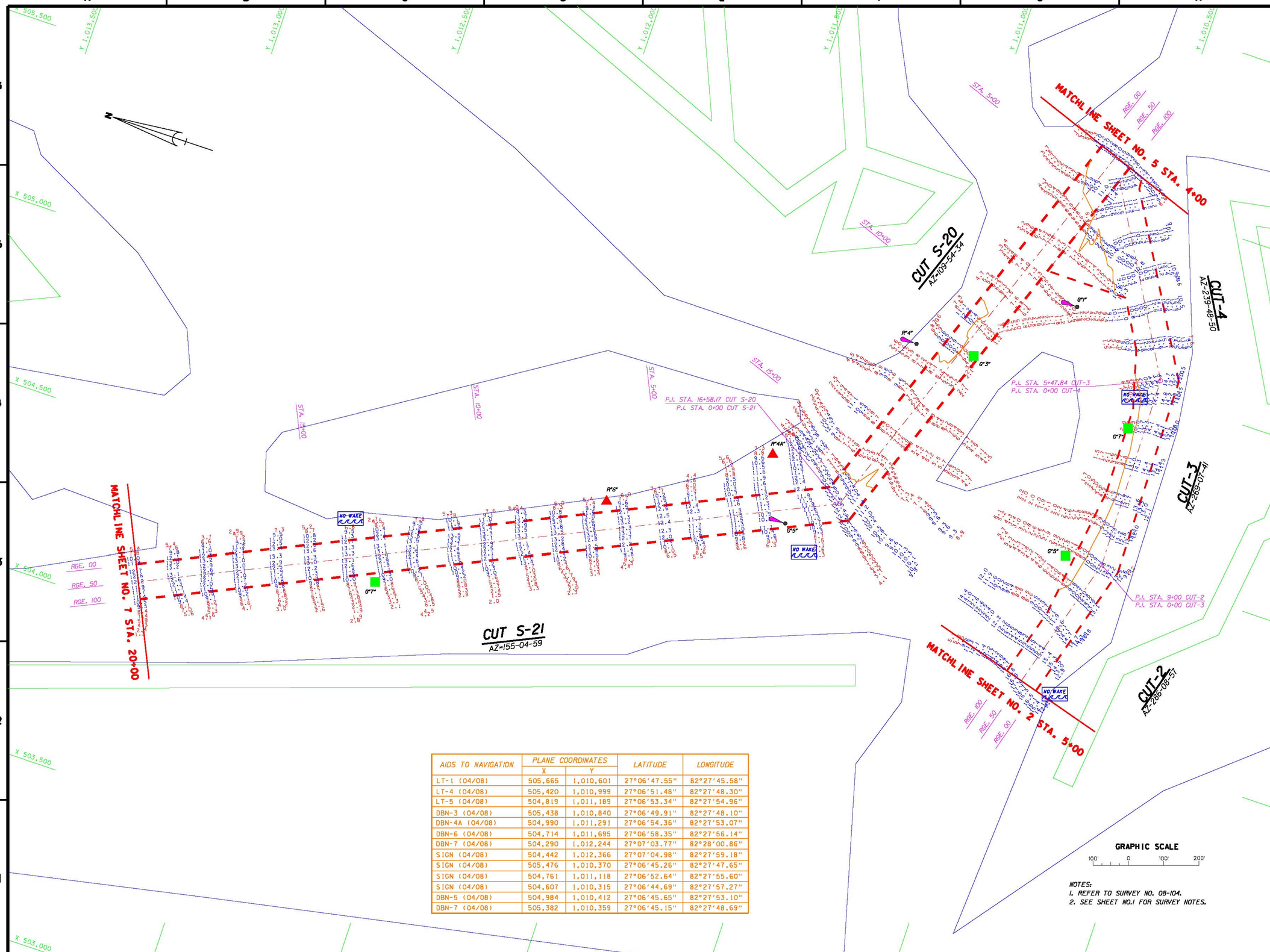
Date: APR 2008
D.O.FILE NO. XXX-XX.XXX

File name: 08-104SHO5.DGN
Reference files: BROPRR.DGN CHANCFAR83.DGN TOPOCFAR83.DGN 08-104S19.DGN 08-104S20.DGN 08-104NAV.DGN CONTOUR.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER, FL
PROJECT CONDITION SURVEY
9-FOOT PROJECT
STA. 8+00 CUT S-18 THRU STA. 4+00 CUT S-20
PLAN

DRAWING NO.
3/7

SHEET 5 OF 28



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-1 (04/08)	505,665	1,010,601	27°06'47.55"	82°27'45.58"
LT-4 (04/08)	505,420	1,010,999	27°06'51.48"	82°27'48.30"
LT-5 (04/08)	504,819	1,011,189	27°06'53.34"	82°27'54.96"
DBN-3 (04/08)	505,438	1,010,840	27°06'49.91"	82°27'48.10"
DBN-4A (04/08)	504,990	1,011,291	27°06'54.36"	82°27'53.07"
DBN-6 (04/08)	504,714	1,011,695	27°06'58.35"	82°27'56.14"
DBN-7 (04/08)	504,290	1,012,244	27°07'03.77"	82°28'00.86"
SIGN (04/08)	504,442	1,012,366	27°07'04.98"	82°27'59.18"
SIGN (04/08)	505,476	1,010,370	27°06'45.26"	82°27'47.65"
SIGN (04/08)	504,761	1,011,118	27°06'52.64"	82°27'55.60"
SIGN (04/08)	504,607	1,010,315	27°06'44.69"	82°27'57.27"
DBN-5 (04/08)	504,984	1,010,412	27°06'45.65"	82°27'53.10"
DBN-7 (04/08)	505,382	1,010,359	27°06'45.15"	82°27'48.69"

NOTES:
1. REFER TO SURVEY NO. 08-104.
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-X2-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

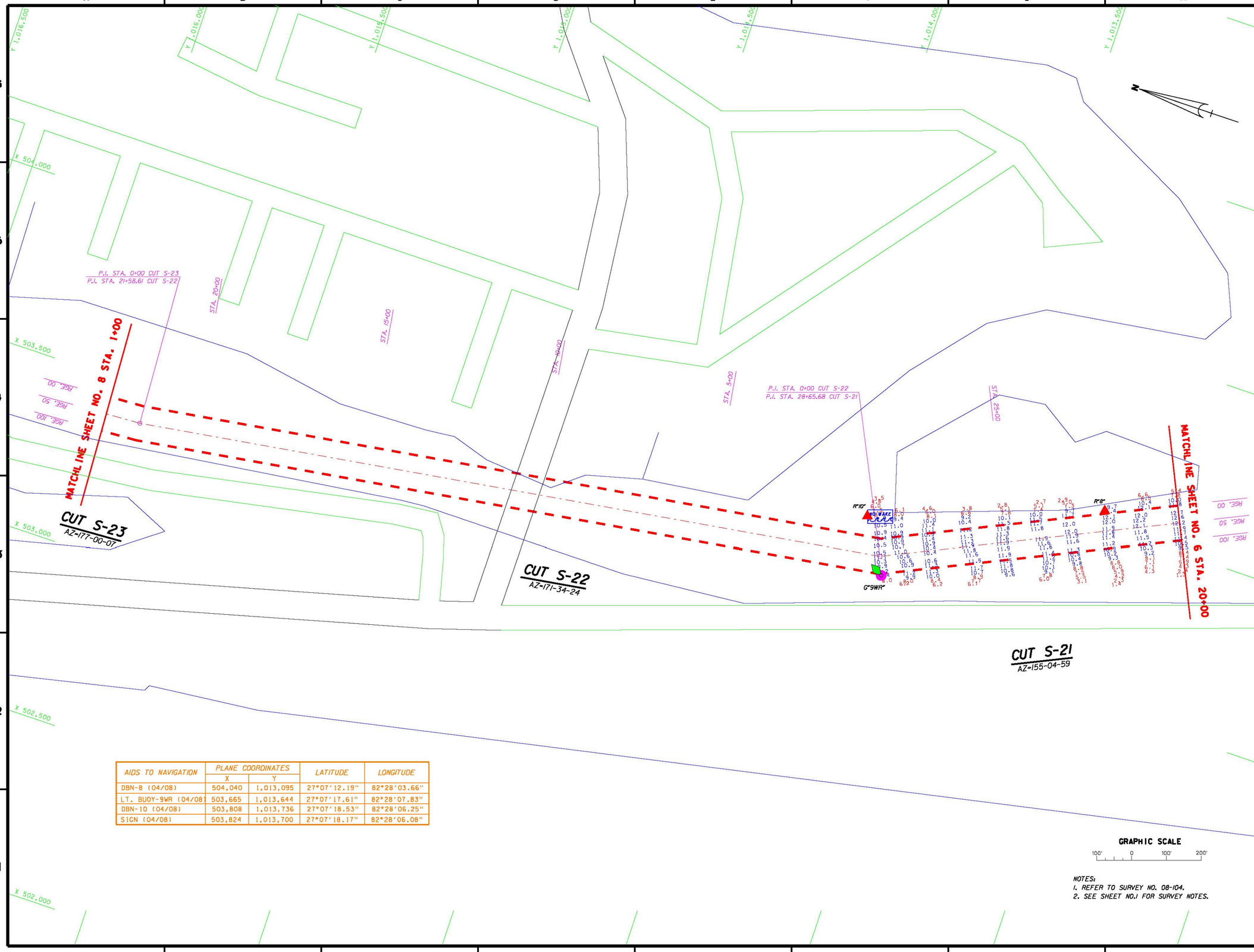
Date: APR 2008
D.O. FILE NO. XXX-XX.XXX

File name: 08-104SHDS.DGN
Reference files: BRDR98.DGN, CHANCHBED.DGN, CHANCHBED1.DGN, TOPOCABELS.DGN, GB-104C1.DGN, GB-104C2.DGN, GB-104C3.DGN, GB-104C4.DGN, GB-104C5.DGN, GB-104C6.DGN, GB-104C7.DGN, GB-104C8.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER, FL
PROJECT CONDITION SURVEY
9-FOOT PROJECT
STA. 4+00 CUT S-20 THRU STA. 20+00 CUT S-21
PLAN

DRAWING NO.
4/7

SHEET 4 OF 28



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-8 (04/08)	504,040	1,013,095	27°07'12.19"	82°28'03.66"
LT. BUOY-9WR (04/08)	503,665	1,013,644	27°07'17.61"	82°28'07.83"
DBN-10 (04/08)	503,808	1,013,736	27°07'18.53"	82°28'06.25"
SIGN (04/08)	503,824	1,013,700	27°07'18.17"	82°28'06.08"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 08-104.
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-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXXX

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

Date: APR 2008

D.O.F.ILE NO. XXX-XX.XXX

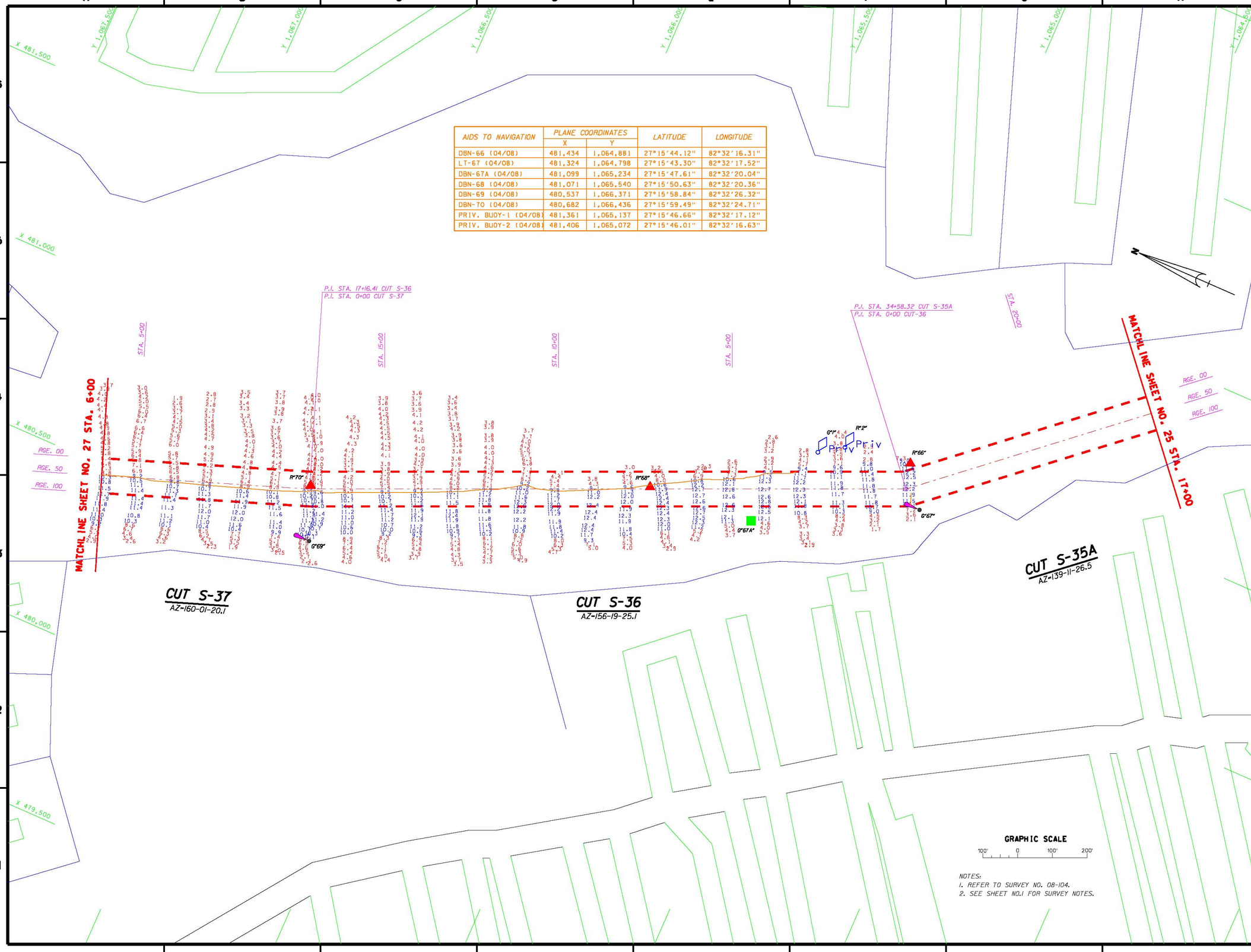
File name: 08-104SH07.DGN
Reference files: BRDFBR.DGN, CHANCFA083.DGN, TOPOCFA083.DGN, 08-104S21.DGN, 08-104NAV.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
STA. 20+00 CUT S-21 THRU STA. 1+00 CUT S-23
PLAN

DRAWING NO.
5/7

SHEET 7 OF 28

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-66 (04/08)	481,434	1,064,881	27°15'44.12"	82°32'16.31"
LT-67 (04/08)	481,324	1,064,798	27°15'43.30"	82°32'17.52"
DBN-67A (04/08)	481,099	1,065,234	27°15'47.61"	82°32'20.04"
DBN-68 (04/08)	481,071	1,065,540	27°15'50.63"	82°32'20.36"
DBN-69 (04/08)	480,537	1,066,371	27°15'58.84"	82°32'26.32"
DBN-70 (04/08)	480,682	1,066,436	27°15'59.49"	82°32'24.71"
PRIV. BUOY-1 (04/08)	481,361	1,065,137	27°15'46.66"	82°32'17.12"
PRIV. BUOY-2 (04/08)	481,406	1,065,072	27°15'46.01"	82°32'16.63"



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
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: RNJ
Dwn by: RNJ
Ckd by: WRN

Date: APR 2008
D.O.FILE NO. XXX-XX.XXX

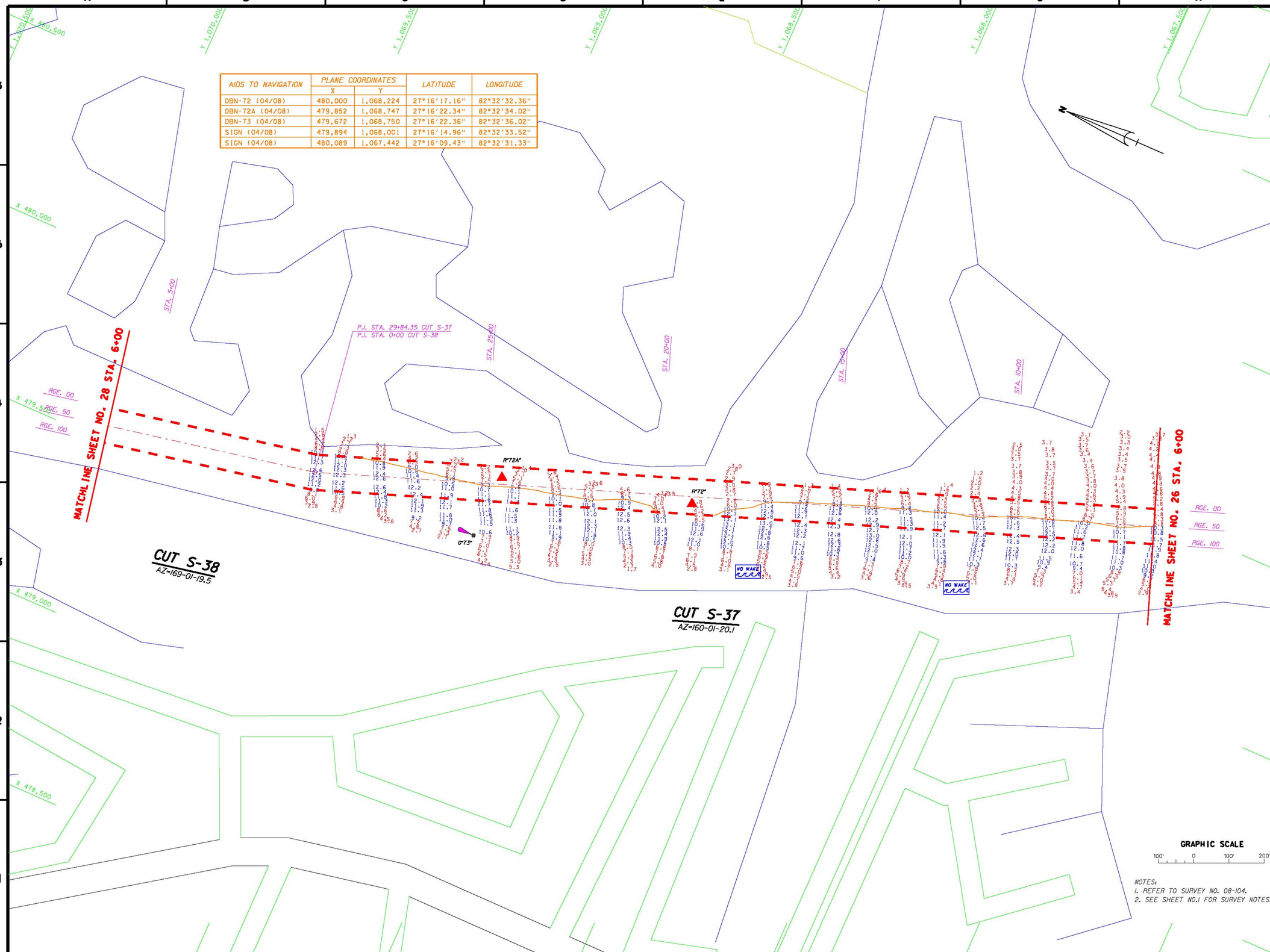
File name: 08-104SHC6.DGN
Reference files: BBDRW8.DGN CHANCRIB83.DGN TOPOCRIB83.DGN 08-104SS5.DGN 08-104S37.DGN 08-104AW.DGN CONN.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
STA. 17+00 CUT S-35A THRU STA. 6+00 CUT-37
PLAN

DRAWING NO.
6/7

SHEET 26 OF 28

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-72 (04/08)	480,000	1,068,224	27°16'17.16"	82°32'32.36"
DBN-72A (04/08)	479,852	1,068,747	27°16'22.34"	82°32'34.02"
DBN-73 (04/08)	479,672	1,068,750	27°16'22.36"	82°32'36.02"
SIGN (04/08)	479,894	1,068,001	27°16'14.96"	82°32'33.52"
SIGN (04/08)	480,089	1,067,442	27°16'09.43"	82°32'31.33"



NOTES:
1. REFER TO SURVEY NO. 08-104.
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-XX-X-XXXX
Dsign XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

Date: APR 2008
D.O. FILE NO. XXX-XX.XXX

File name: 08-104SHST.DGN
Reference files: BROR8.DGN, CHANCR4083.DGN, TOPOCR4083.DGN, 08-104ST.DGN, 08-104NAV.DGN, CONB.DGN

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
STA. 6+00 CUT S-37 THRU STA. 6+00 CUT S-38
PLAN

DRAWING NO.
7/7

SHEET 27 OF 28