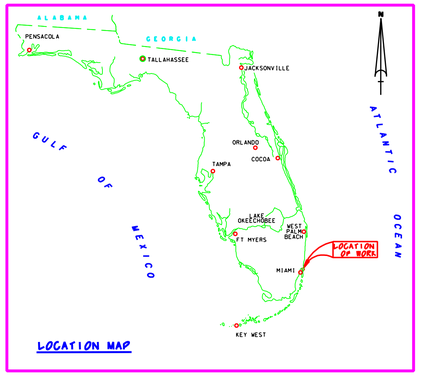
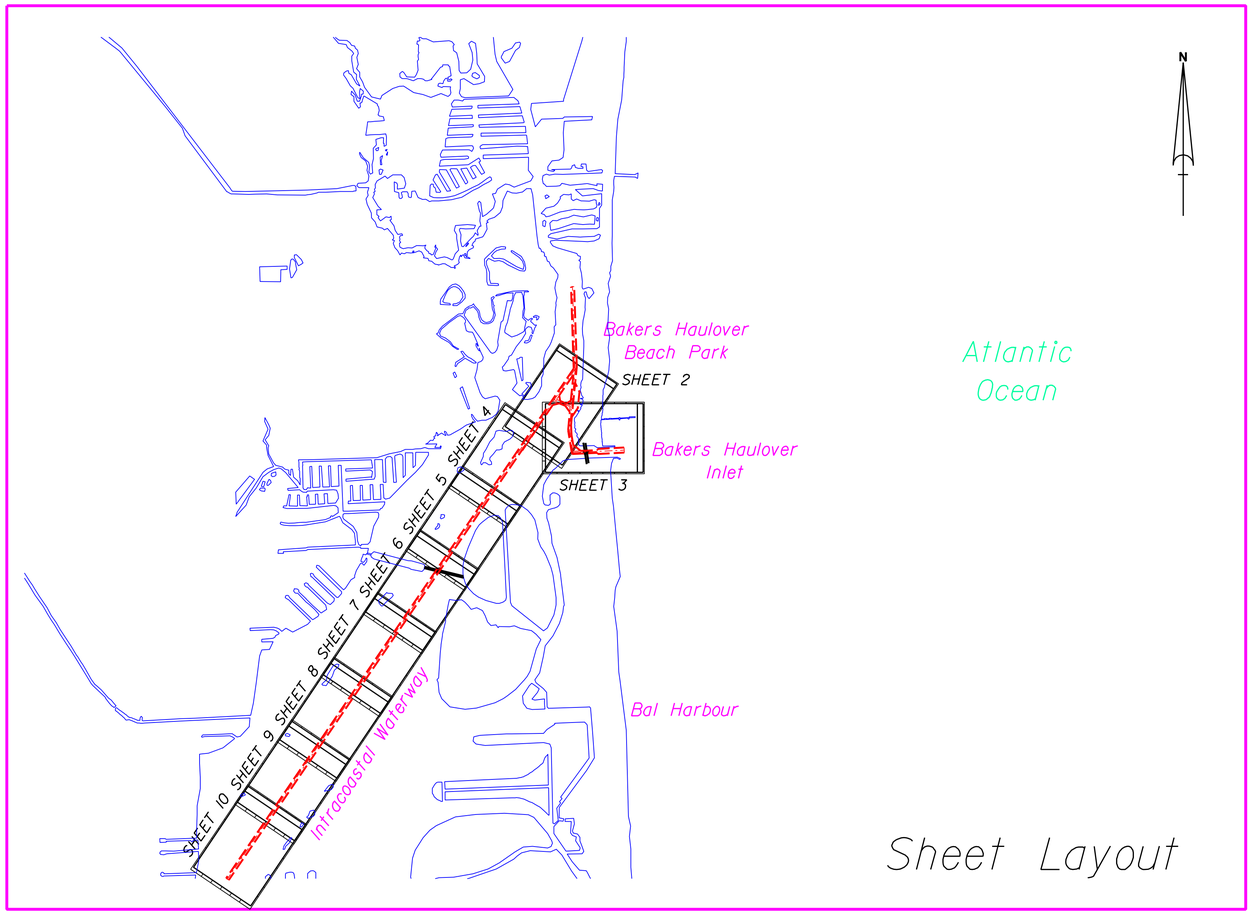
INTRACOASTAL WATERWAY, CUT DA-9
AND BAKERS HAULOVER INLET
DADE COUNTY, FLORIDA
PROJECT CONDITION SURVEY





SURVEY NOTES:

1. REFER TO SURVEY NO. 04-015.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 0.58 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 DOCK PILING IN THE VICINITY OF. AND REFERENCED FROM. BENCHMARK "N.O.S. 1 - 1973".
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1927 (NAD27).
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	AREA
WB-34	4-5, 11-12 MAY 2004	CUT DA-9. 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. 1 JAN 02.

BENCHMARK	NGVD ELEV. (FT)
NOS 1 -1973	4.21

Relationship between NGVD 1929 and NOAA Mean Lower Low Water Tidal Datum (1960-1978 epoch)

LEGEND

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

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
Pnt date XX XX XXXX
Pnt scale XX.X
Designed by CWK
Dwn by (Sd by) WRW
Ckd by WRW
Date MAY 2004
D.O.F.ILE NO.

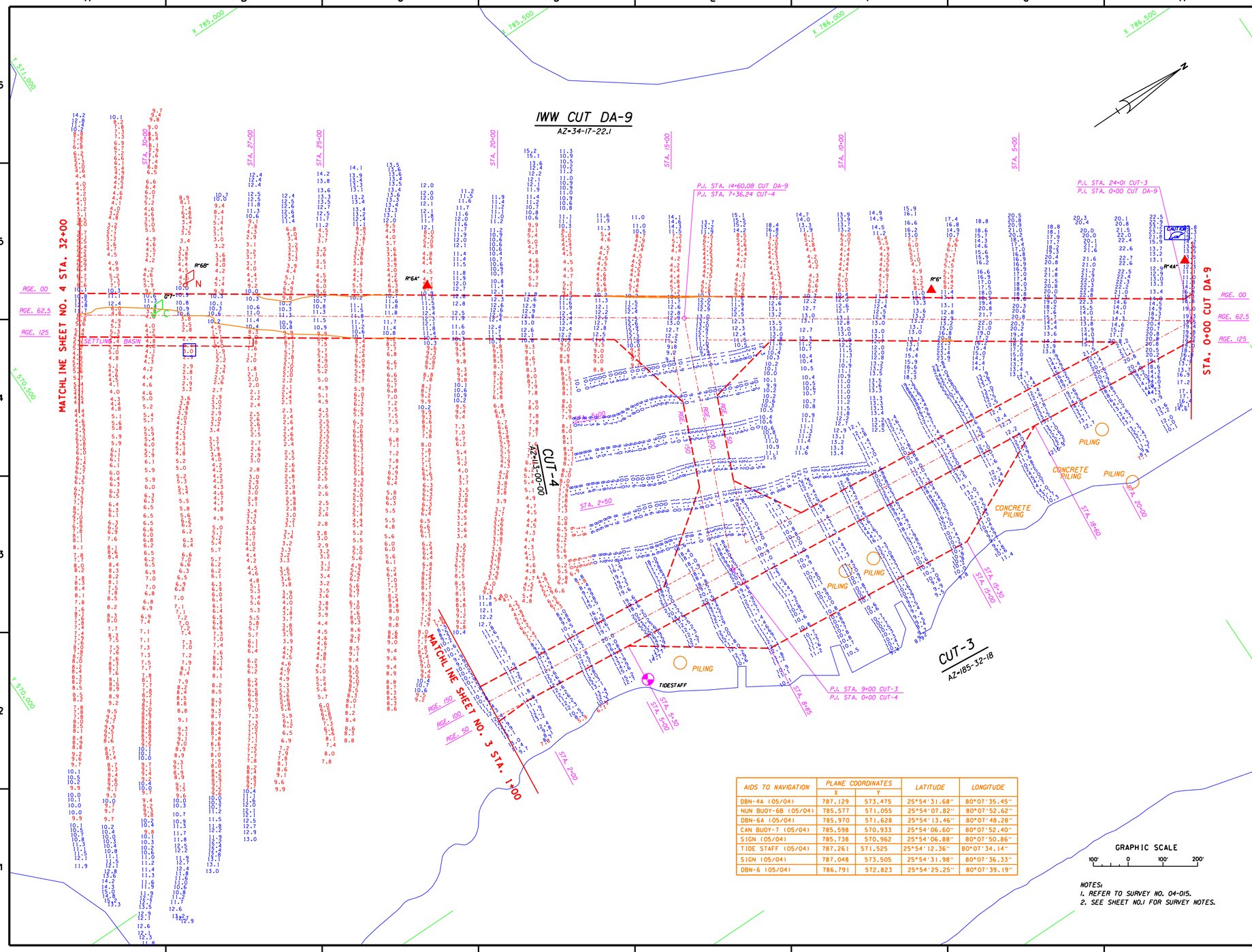
File name: FT05SH01.DGN
Reference files: GRIDFRM.DGN, NAVBEACON.DGN, BAKERS_HA.DGN, IWW_DA9.DGN, DASHNO1.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA
PROJECT CONDITION SURVEY
8, 10 AND 11-FOOT PROJECT
COVER SHEET AND INDEX
PLAN

DRAWING NO.
1/10

SHEET 1 OF 10

.../IWW_DA9/f015pcs/f015sh01.dgn 05/17/2004 05:41:30 PM



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-4A (05/04)	787,129	573,475	25°54'31.68"	80°07'35.45"
NUN BUOY-6B (05/04)	785,577	571,055	25°54'07.82"	80°07'52.62"
DBN-6A (05/04)	785,970	571,628	25°54'13.46"	80°07'48.28"
CAN BUOY-7 (05/04)	785,598	570,933	25°54'06.60"	80°07'52.40"
SIGN (05/04)	785,738	570,962	25°54'06.88"	80°07'50.86"
TIDE STAFF (05/04)	787,261	571,525	25°54'12.36"	80°07'34.14"
SIGN (05/04)	787,048	573,505	25°54'31.98"	80°07'36.33"
DBN-6 (05/04)	786,791	572,823	25°54'25.25"	80°07'39.19"

NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Design XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot name: XX.X
Date: MAY 2004
D.O.F.ILE NO.

Designed by: WRW
Dwn by: WRW
Ckd by: GRN

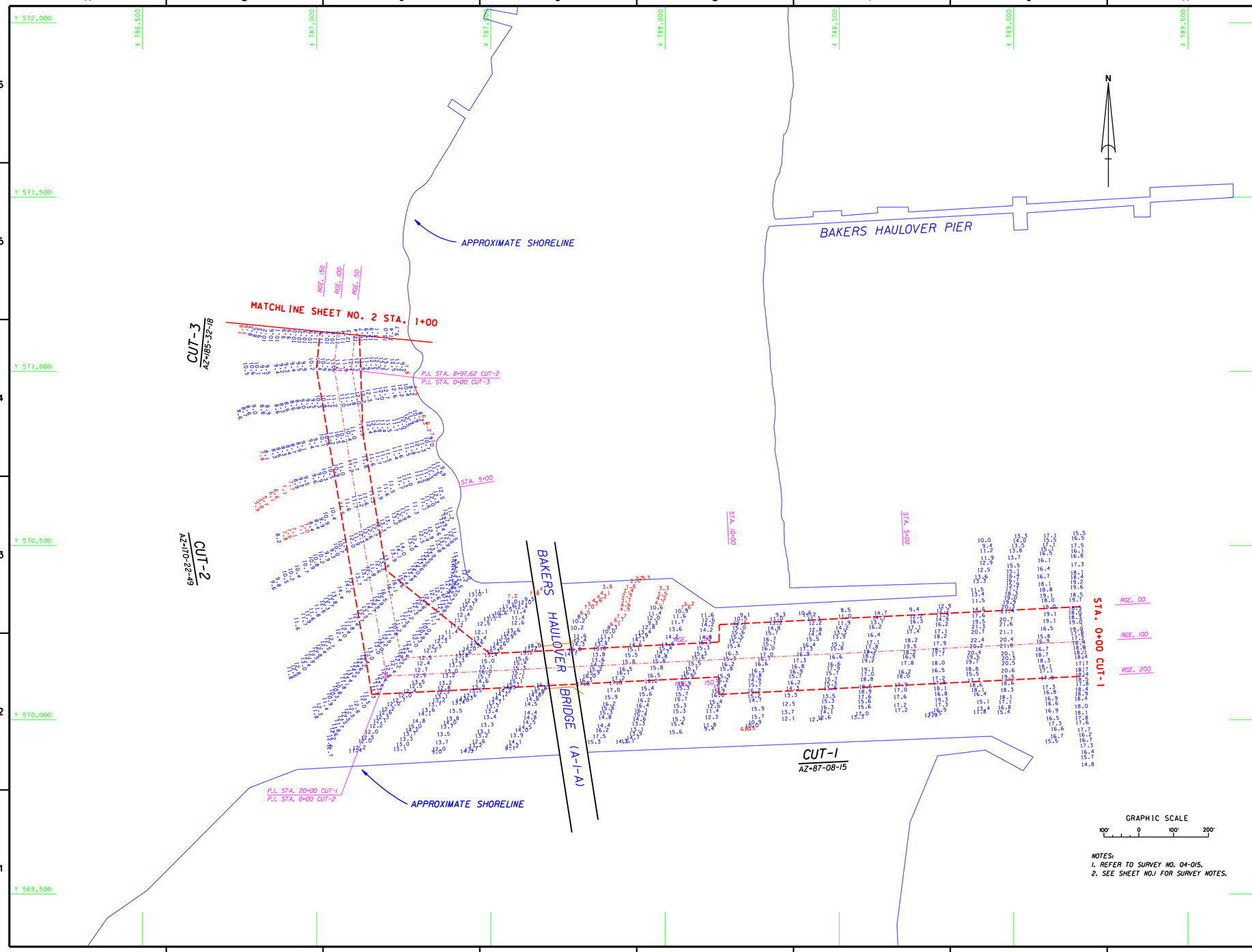
File name: F015SH02.DGN
References files: BASE.DGN WIP_DA9.DGN EMSCRS_NAD.DGN F015CT1.DGN F015CT2.DGN F015SH03.DGN COAL_10.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BROWARD COUNTY, FLORIDA

PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA 0+00 THRU STA 7+36.24 CUT-4
STA 0+00 THRU STA 24+01 CUT-3
STA 0+00 THRU STA 32+00 CUT DA-9
PLAN

DRAWING NO.
2/10
SHEET 2 OF 10

.../IWW_DA9/f015pcs/f015sh02.dgn 05/17/2004 05:42:05 PM



NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Design XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot name XXXX

Designed by: XXXX
Dwn by: XXXX
Ckd by: XXXX

Dated: MAY 2004
D.O.FILE NO.

File name f015sh03.DGN
Reference files: BKOR00.DGN BKOR01.DGN BMGEPS-HA.DGN FODSC12.DGN FODSC11.DGN FODSC13.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA AND
BAKERS HAULOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
8 AND 11-FOOT PROJECT
STA. 0+00 CUT-1 THRU STA. 1+00 CUT-3
PLAN

DRAWING NO.
3/10

SHEET 3 OF 10

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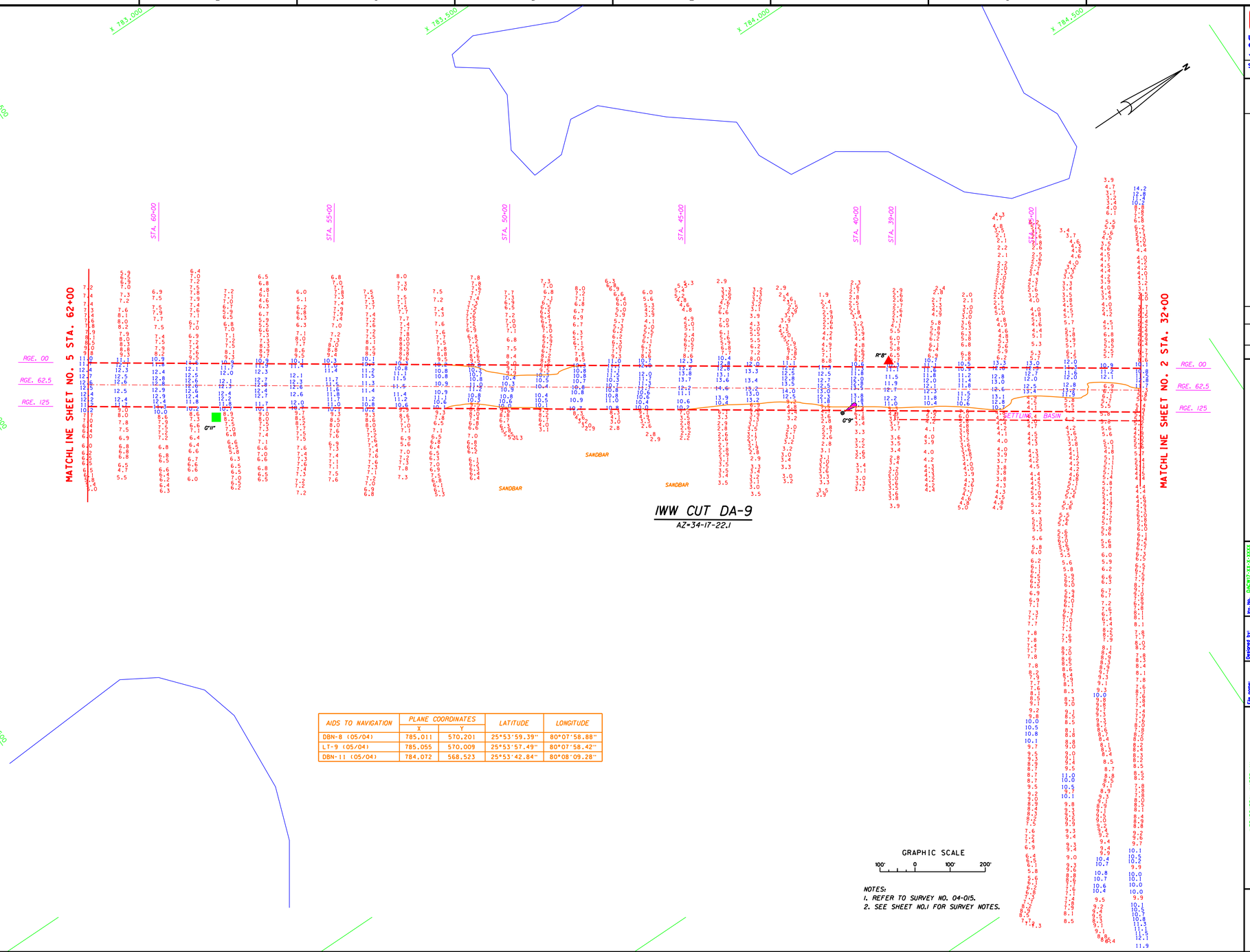

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-8 (05/04)	785,011	570,201	25°53'59.39"	80°07'58.88"
LT-9 (05/04)	785,055	570,009	25°53'57.49"	80°07'58.42"
DBN-11 (05/04)	784,072	568,523	25°53'42.84"	80°08'09.28"

NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Dsned: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: 30:1

Designed by: RDD
Dwn by: WMW
Ckd by: WMW
Dsned: MAY 2004
D.O.F ILE NO.

File name: F015SH04.DGN
Reference files: BKOR98.DGN BKOR98_DTM.DGN BAKERS_MA.DGN FO15DA9.DGN FO15NAV.DGN CON_10.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA. 32+00 THRU STA. 62+00 IWW CUT DA-9
PLAN

DRAWING NO.
4/10

SHEET 4 OF 10

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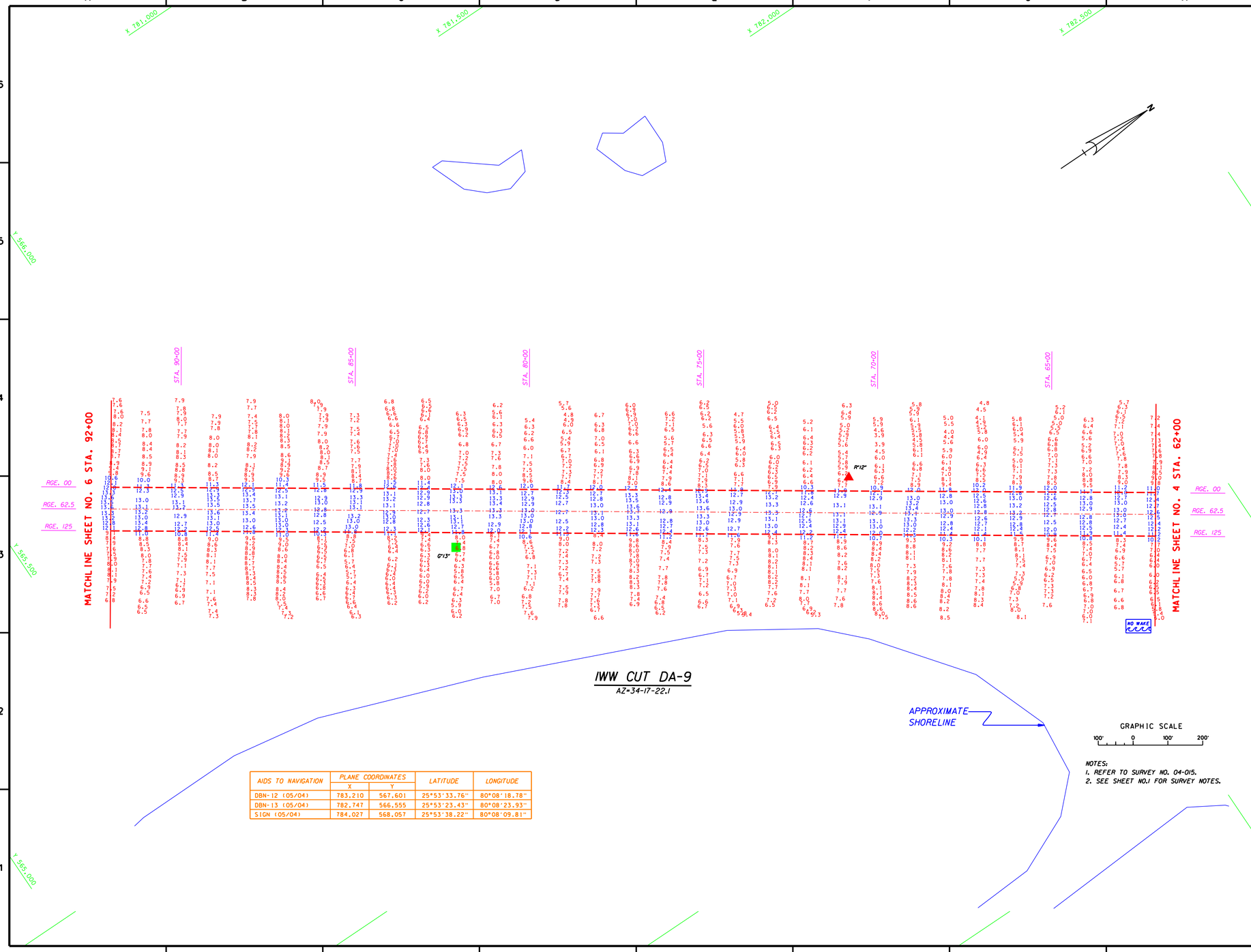

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-12 (05/04)	783,210	567,601	25°53'33.76"	80°08'18.78"
DBN-13 (05/04)	782,747	566,555	25°53'23.43"	80°08'23.93"
SIGN (05/04)	784,027	568,057	25°53'38.22"	80°08'09.81"

NOTES:
1. REFER TO SURVEY NO. 04-015.
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 name: DA-9
Designed by: RMW
Dwn by: RMW
Ckd by: RMW
Dated: MAY 2004
D.O.FILE NO.

File name: F015SH05.DGN
Reference files: BKDFSB.DGN BKMAP2.DGN BAKERS_HA.DGN FORSHAV.DGN FORSHAB.DGN CORL-SC.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA 62+00 THRU STA 92+00 IWW CUT DA-9
PLAN

DRAWING NO.
5/10

SHEET 5 OF 10

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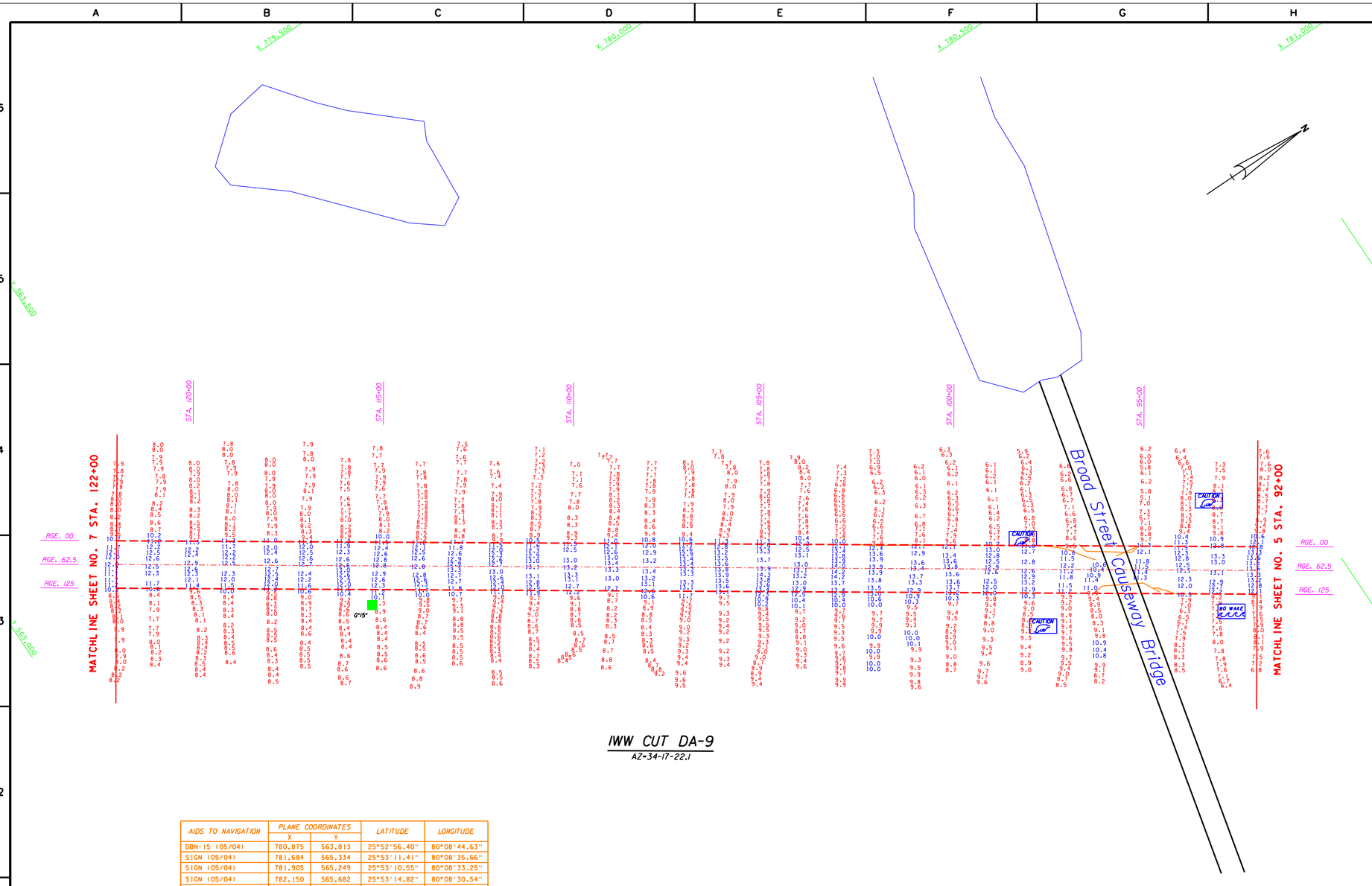


IWW CUT DA-9

AZ-34-17-22.1

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-15 (05/04)	780,875	563,813	25°52'56.40"	80°08'44.63"
SIGN (05/04)	781,684	565,334	25°53'11.41"	80°08'35.66"
SIGN (05/04)	781,905	565,249	25°53'10.55"	80°08'33.25"
SIGN (05/04)	782,150	565,682	25°53'14.82"	80°08'30.54"
SIGN (05/04)	781,875	565,796	25°53'15.97"	80°08'33.53"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Design XX XXX XXXX
Scale AS SHOWN
Plot date: XX XX XXXX
Plot scale: 1:1
Dated MAY 2004
D.O.F.ILE NO.

Designed by: CEPD-ET
Dwn by: WRN
Ckd by: WRN

File name: F015PS06.DGN
Reference files: BNDRY.DGN
BNCH01.DGN
BNCH02.DGN
BAKERS_HALO.DGN
F015NAV.DGN
F015LND.DGN
F015_FLTR.DGN

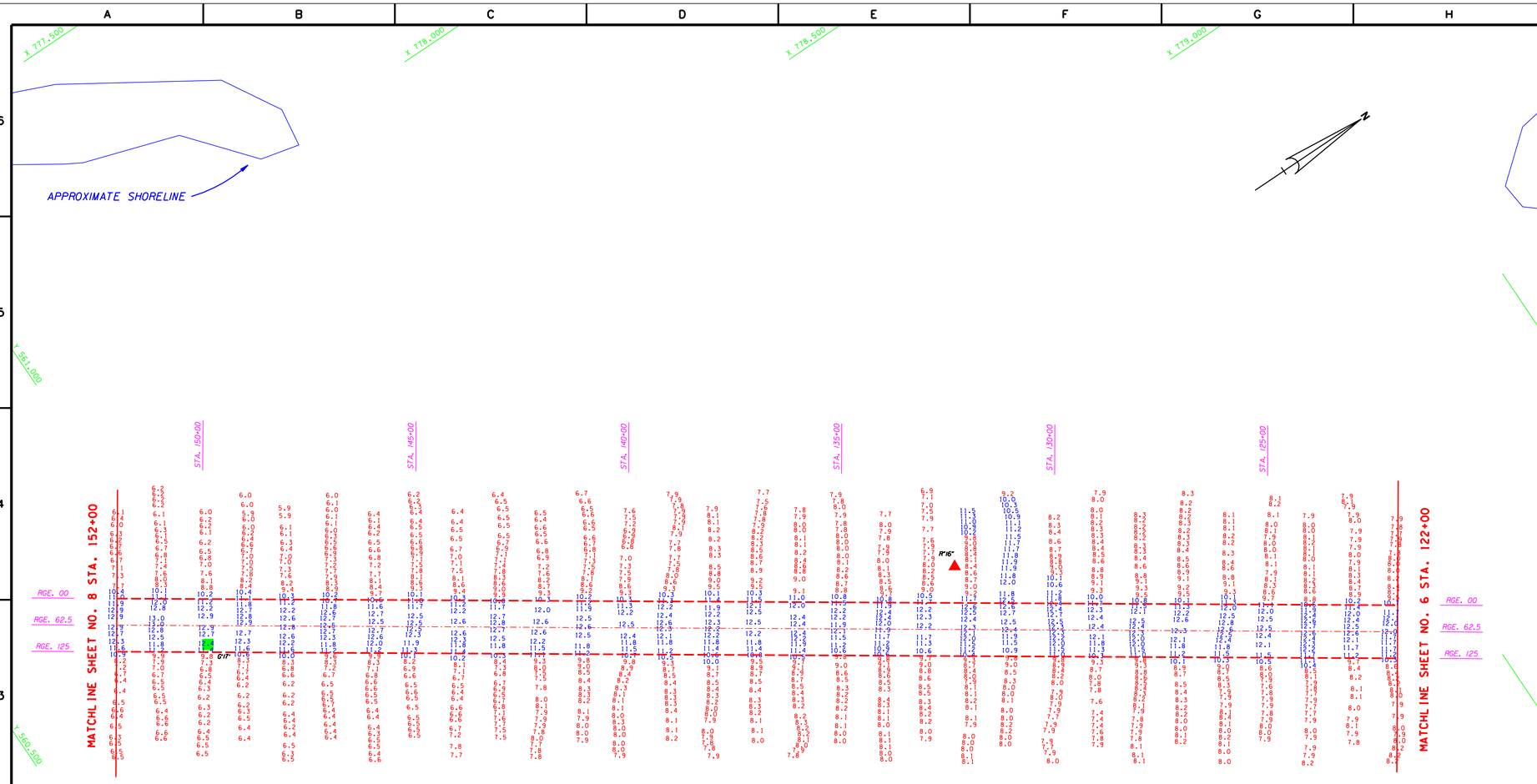
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HALOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA. 92+00 THRU STA. 122+00 IWW CUT DA-9
PLAN

DRAWING NO.
6/10

SHEET 6 OF 10

.../IWW_DA9/f015pcs/f015sh06.dgn 05/17/2004 05:43:29 PM



IWW CUT DA-9

AZ-34-17-22.1

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-16 (05/04)	779,706	562,544	25°52'43.90"	80°08'57.51"
DBN-17 (05/04)	778,877	560,989	25°52'28.55"	80°09'06.69"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Design XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot name XX.X

Designed by: TOM WEIR
Dwn by: WRM
Ckd by: WRM

Dated: MAY 2004
D.O.F.ILE NO.

File name: F015SH07.DGN
Reference files: BNORD.DGN BNORD-MA.DGN BAKERS_MA.DGN F015NAV.DGN F015SAM.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA. 122+00 THRU STA. 152+00 IWW CUT DA-9
PLAN

DRAWING NO.
7/10

SHEET 7 OF 10

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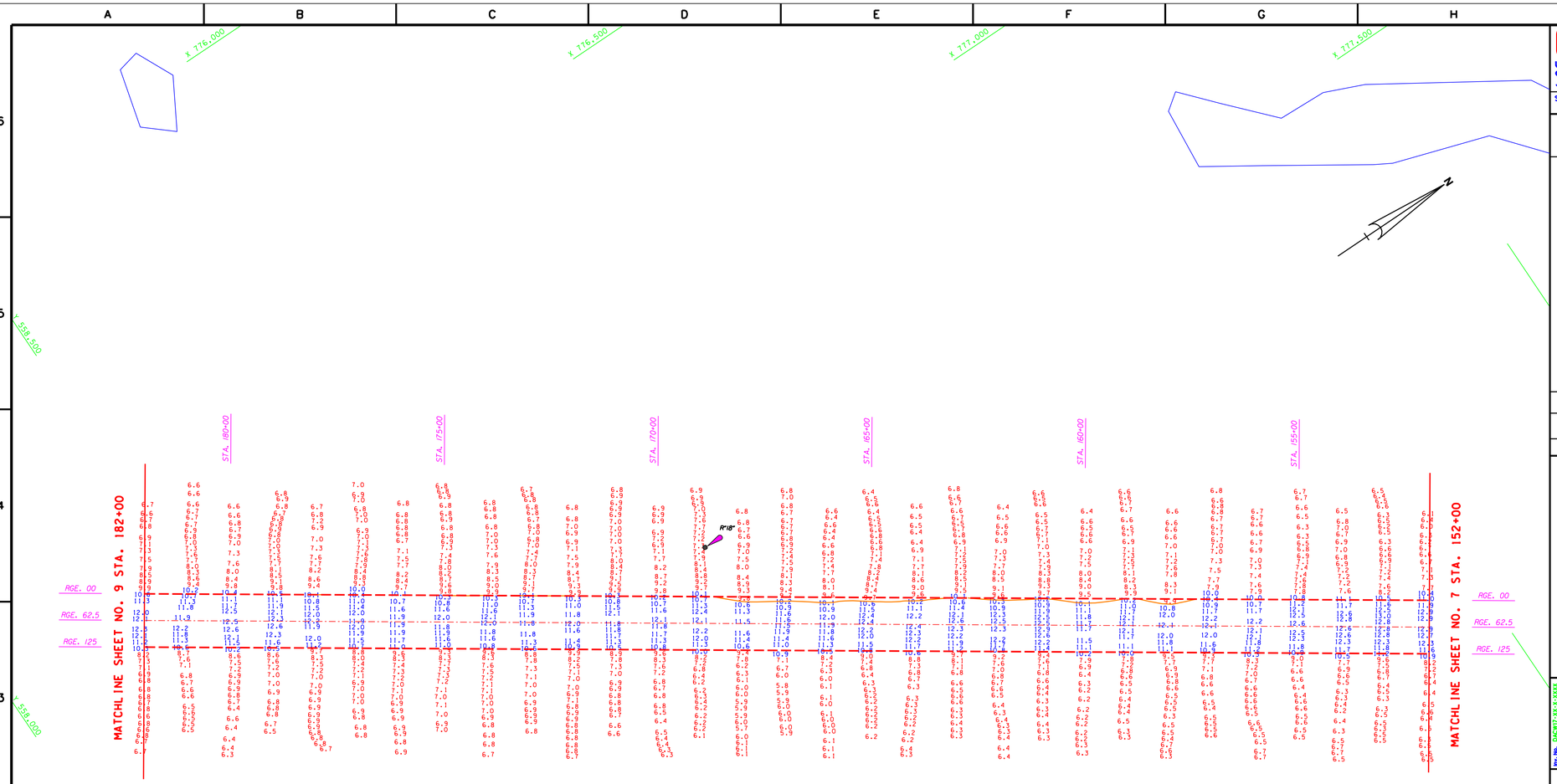


IWW CUT DA-9

AZ=34-17-22.1

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-18 (05/04)	777,617	559,541	25°52'14.29"	80°09'20.59"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Dataset XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale 1X1X

Designed by CEM
Dwn by MRM
Ckd by MRM

Dated MAY 2004
D.O.F FILE NO.

File name: F015SH08.DGN
Reference files: BROWER.DGN
MAP1.DGN
F015MAP1.DGN
F015DA8.DGN
BAKERS_HA.DGN
CONTL.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA

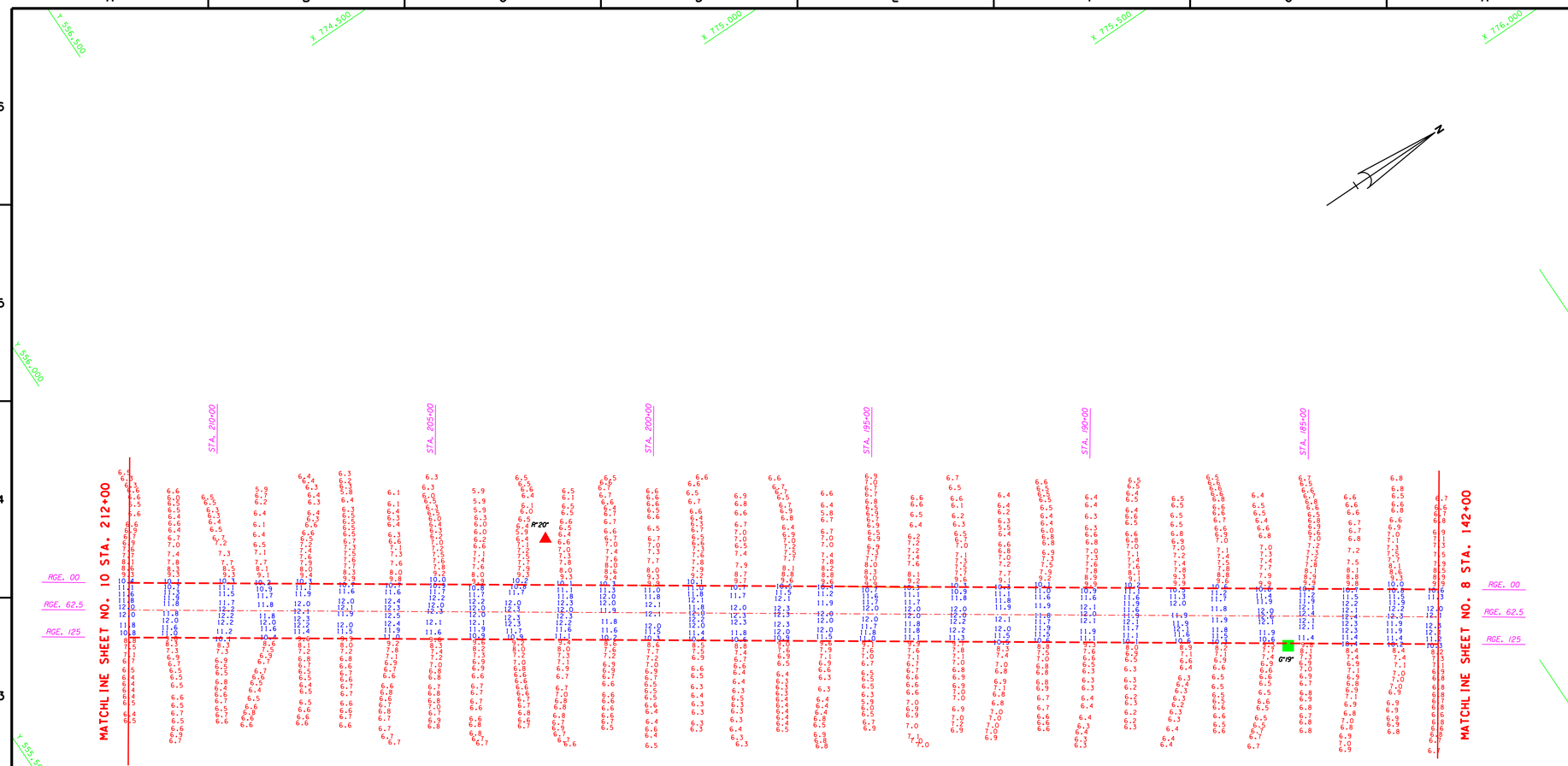
PROJECT CONDITION SURVEY
10-FOOT PROJECT

STA. 152+00 THRU STA. 182+00 IWW CUT DA-9
PLAN

DRAWING NO.
8/10

SHEET 8 OF 10

.../IWW_DA9/f015pcs/f015sh08.dgn 05/17/2004 05:44:01 PM



IWW CUT DA-9

AZ-34-17-22.1

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-19 (05/04)	776,893	558,036	25°51'59.43"	80°09'28.63"
DBN-20 (05/04)	775,739	556,762	25°51'46.88"	80°09'41.35"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-015.
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
Pnt date: XX XX XXXX
Pnt scale: N/A

Designed by:
Dwn by: [illegible]
Chk by: [illegible]
Apvd by: [illegible]
Dated: MAY 2004
D.O.F. FILE NO.

File name: F015SH09.DGN
Reference files: BKGRND.DGN
MPA_DA9.DGN
F015MAX.DGN
F015DA9.DGN
CONL_10.DGN

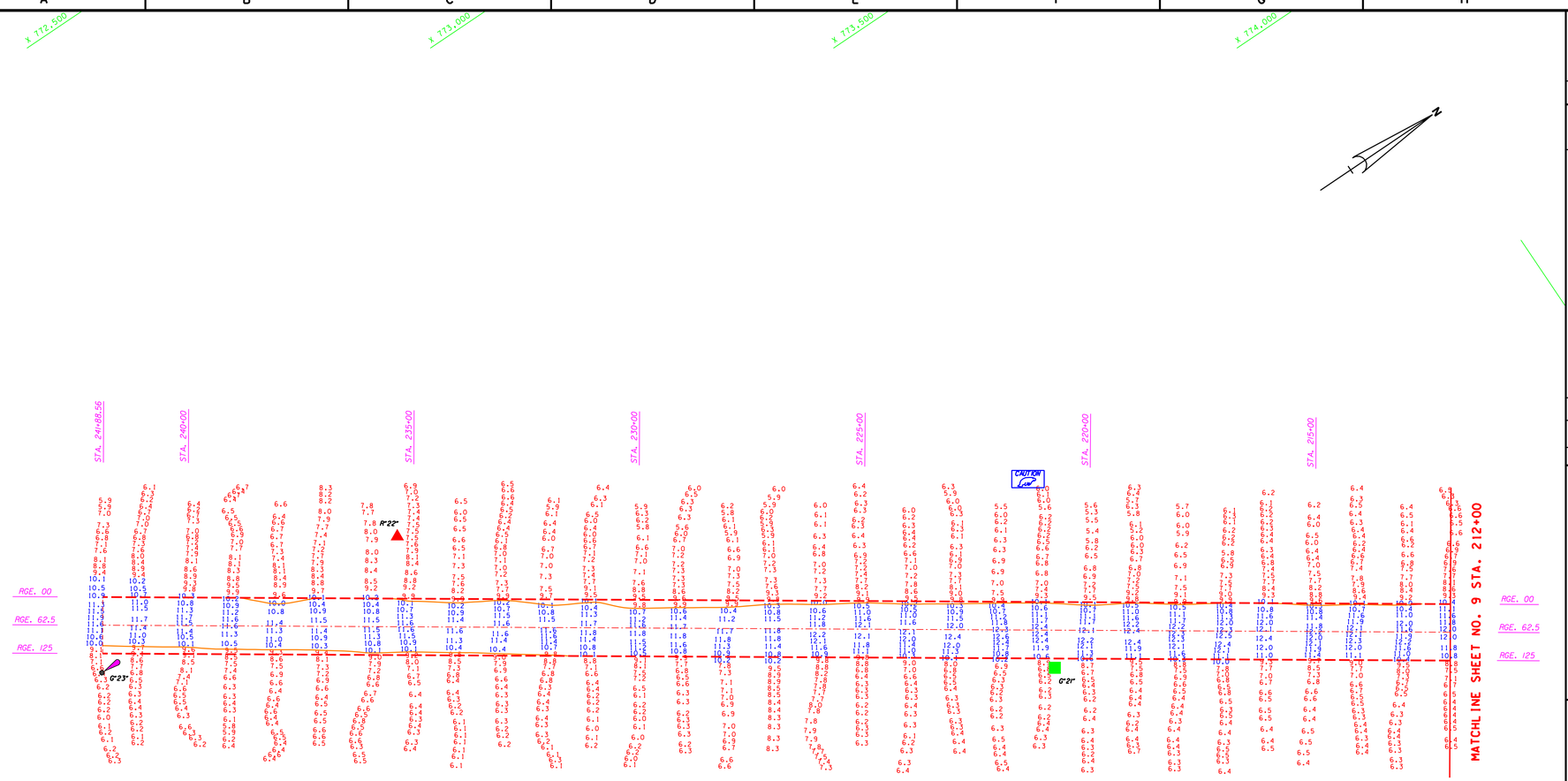
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA. 182+00 THRU STA. 212+00 IWW CUT DA-9
PLAN

DRAWING NO.
9/10

SHEET 9 OF 10

.../IWW_DA9/f015pcs/f015sh09.dgn 05/17/2004 05:44:16 PM



IWW CUT DA-9

AZ=34-17-22.1

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-21 (05/04)	774,915	555,109	25°51'30.56"	80°09'50.48"
DBN-22 (05/04)	773,859	554,062	25°51'20.26"	80°10'02.12"
LT-23 (05/04)	773,738	553,350	25°51'13.21"	80°10'03.49"
SIGN (05/04)	774,532	555,297	25°51'32.45"	80°09'54.66"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 04-015.
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 X XXXX
Plot scale: XX.X

Designed by: CDR
Dwn by: RMW
Ckd by: RMW

Dsign: MAY 2004
D.O.F ILE NO.

File name: F015SH10.DGN
Reference files: BKWR.DGN
FOTSHR.DGN
FOTSMA.DGN
FOTSDA9.DGN
CON_10.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
BAKERS HAULOVER INLET, FLORIDA

PROJECT CONDITION SURVEY
10-FOOT PROJECT

STA 212+00 THRU STA 241+88.56 IWW CUT DA-9
PLAN

DRAWING NO.
10/10

SHEET 10 OF 10

.../IWW_DA9/f015pcs/f015sh10.dgn 05/17/2004 05:44:34 PM