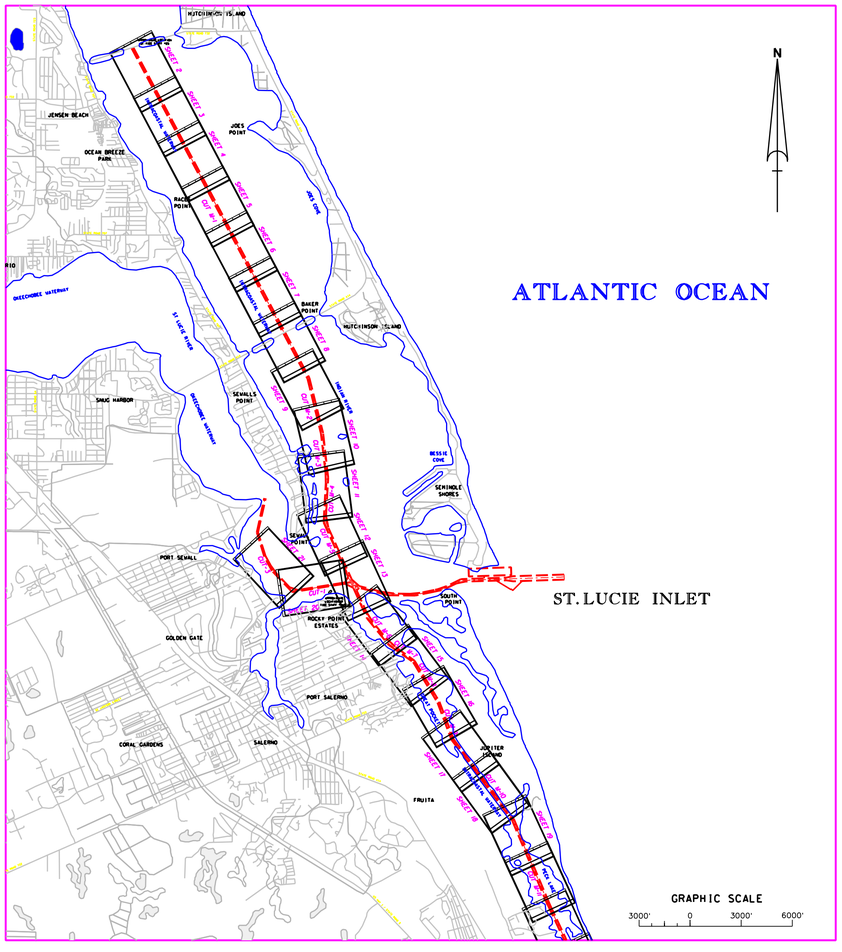
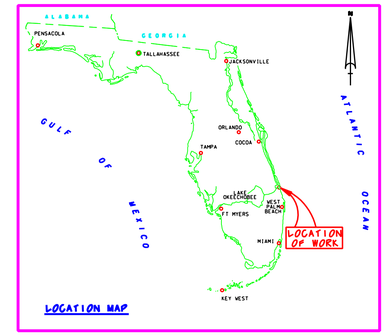
INTRACOASTAL WATERWAY
VICINITY OF CROSSROADS
IWW CUT M-5 & OWW CUTS 1 & 2
PROJECT CONDITION SURVEY



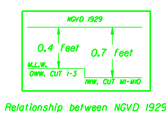


SURVEY NOTES:

1. REFER TO SURVEY NO. 05-046.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER (MLW). SEE TABLE BELOW FOR RELATIONSHIP BETWEEN NGVD29 AND MEAN LOW WATER.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A STAFF SET ON A DOCK PILING IN THE VICINITY OF AND REFERENCED FROM BENCHMARK "SNAKE" .
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 RECORDR WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
WB-34	04 FEB 2005	IWW CUT 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 AND IS NOT TO BE USED FOR NAVIGATION.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURACE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.



Relationship between NGVD 1929 and COE Mean Low Water Tidal Datum

BENCHMARK	NGVD ELEV. (FT)
SNAKE	3.60

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. CAE9817-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X

Designed by: CHRIS
Dwn by: MRW
Ckd by: MRW

Dated: FEB 2005
D.O.F ILE NO.

File name: D46ESH01.DGN
Reference files: BASEMAP.DGN, MARKERS.DGN, MARTINDX.DGN, NEWFLMAP.DGN, MARTBASE.DGN

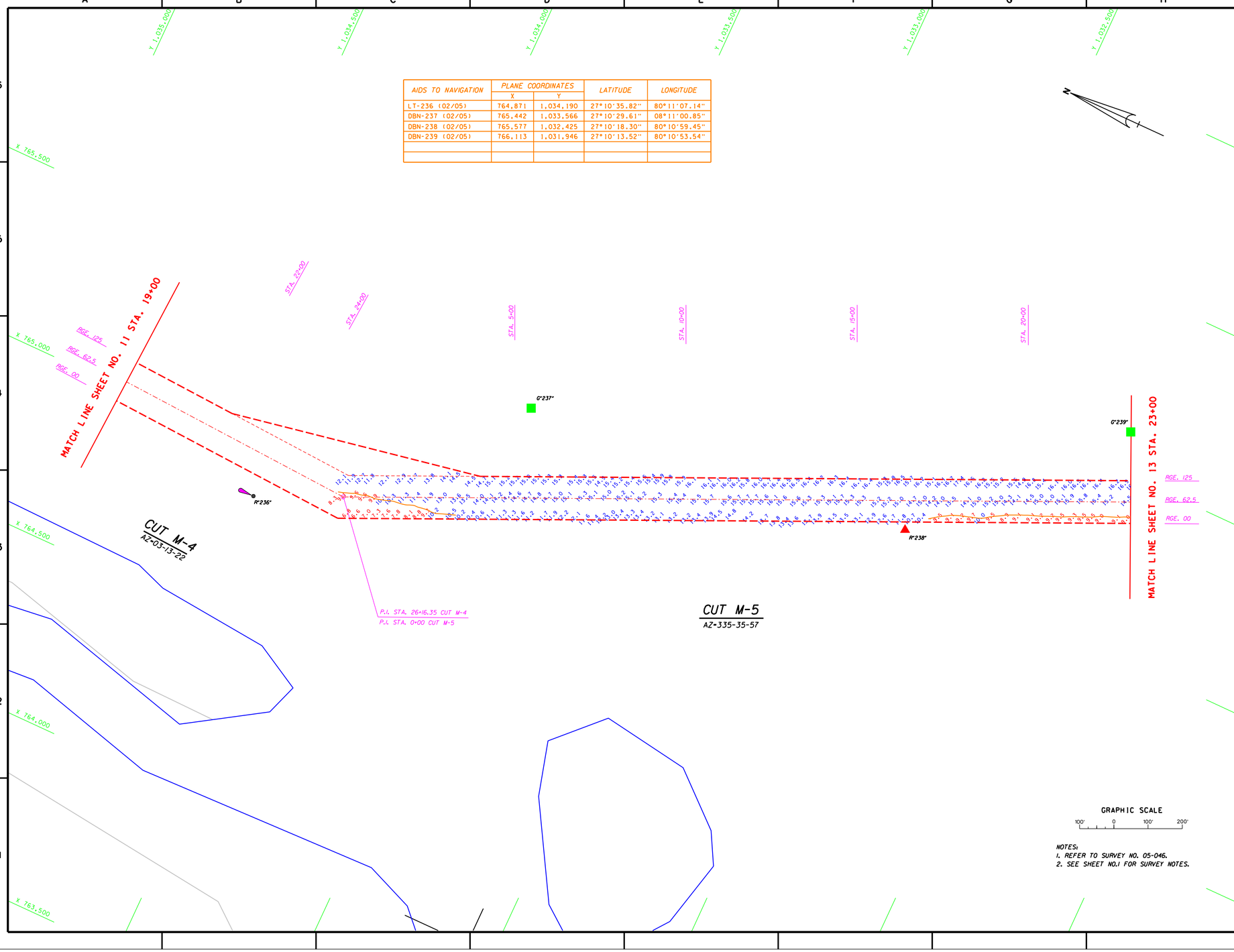
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
OKEECHOBEE WATERWAY, ST. LUCIE CANAL
PROJECT CONDITION SURVEY
8 & 10-FOOT PROJECT
IWW, CUT M-5 AND OWW, CUTS 1 & 2
PLAN

DRAWING NO.
1/6

SHEET 1 OF 44

.../IWW_MART/g046pcs/g046sh01.dgn 02/08/2005 03:02:52 PM

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-236 (02/05)	764,871	1,034,190	27°10'35.82"	80°11'07.14"
DBN-237 (02/05)	765,442	1,033,566	27°10'29.61"	08°11'00.85"
DBN-238 (02/05)	765,577	1,032,425	27°10'18.30"	80°10'59.45"
DBN-239 (02/05)	766,113	1,031,946	27°10'13.52"	80°10'53.54"



NOTES:
1. REFER TO SURVEY NO. 05-046.
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: XX:X

Designed by: WRM
Dwn by: WRM
Chk by: WRM
Date: FEB 2005
D.O.FILE NO.

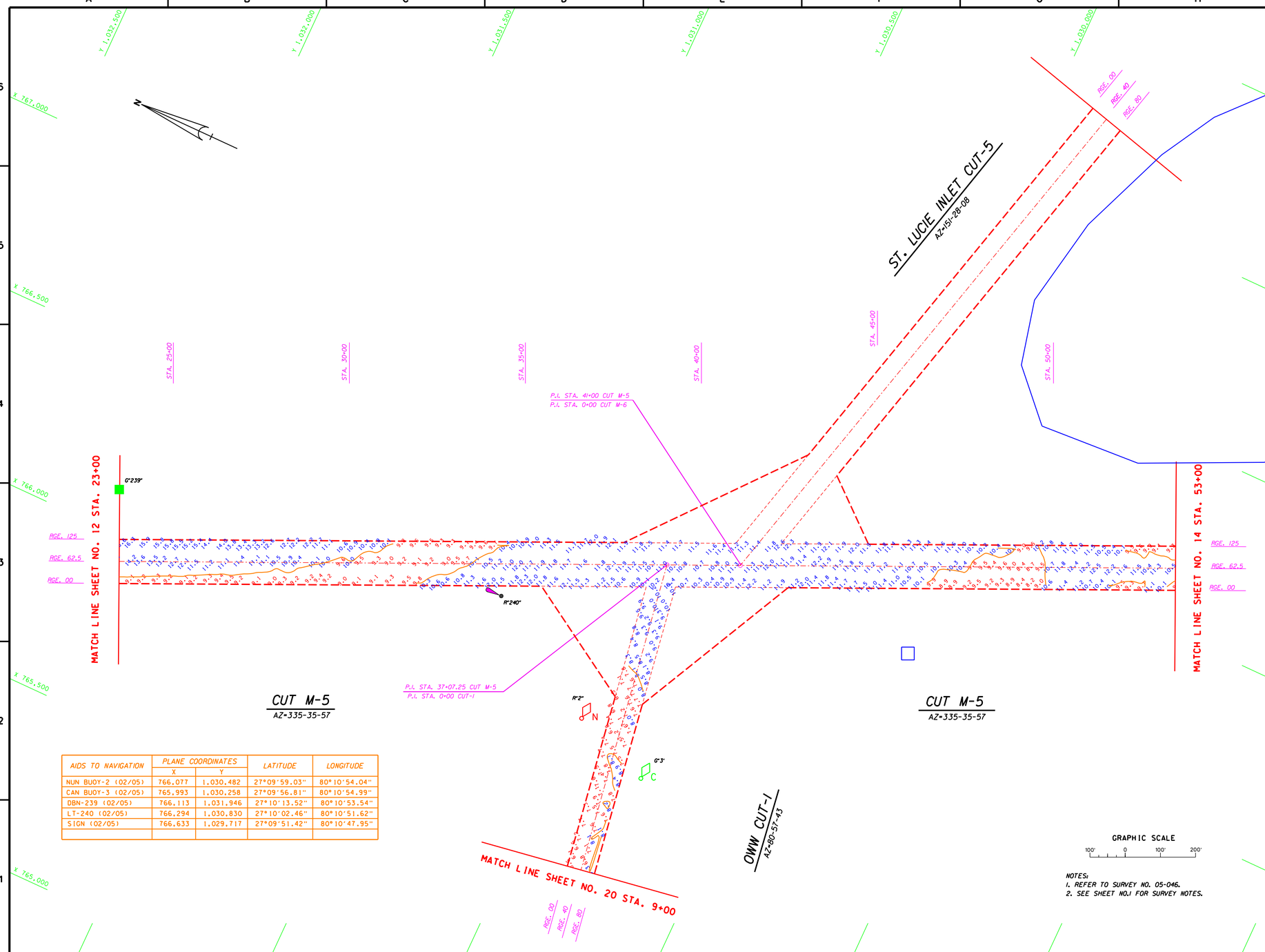
File name: G046SH12.DGN
Reference files: G046TB0.DGN G046CB1.DGN G046AC0.DGN G046AL0.DGN G046AM0.DGN MARTBASE.DGN CONOLDGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA. 19+00M CUT M-4 THRU STA. 23+00 CUT M-5
PLAN

DRAWING NO.
2/6

SHEET 12 OF 44

.../IWW_MART/g046pcs/g046sh12.dgn 02/08/2005 02:47:48 PM



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
NUN BUOY-2 (02/05)	766,077	1,030,482	27°09'59.03"	80°10'54.04"
CAN BUOY-3 (02/05)	765,993	1,030,258	27°09'56.81"	80°10'54.99"
DBN-239 (02/05)	766,113	1,031,946	27°10'13.52"	80°10'53.54"
LT-240 (02/05)	766,294	1,030,830	27°10'02.46"	80°10'51.62"
SIGN (02/05)	766,633	1,029,717	27°09'51.42"	80°10'47.95"

NOTES:
1. REFER TO SURVEY NO. 05-046.
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: XX:X

Designed by: SMW
Dwn by: SMW
Ckd by: RMW
Date: FEB 2005
D.O.F.ILE NO.

File name: 05UESH13.DGN
Reference files: GRIDFIGS.DGN
MARTEL.DGN
CGACTLL.DGN
CGUTLL.DGN
MARTBASE.DGN
CGNBAY.DGN
CGNDRY.DGN
CGNBLL.DGN

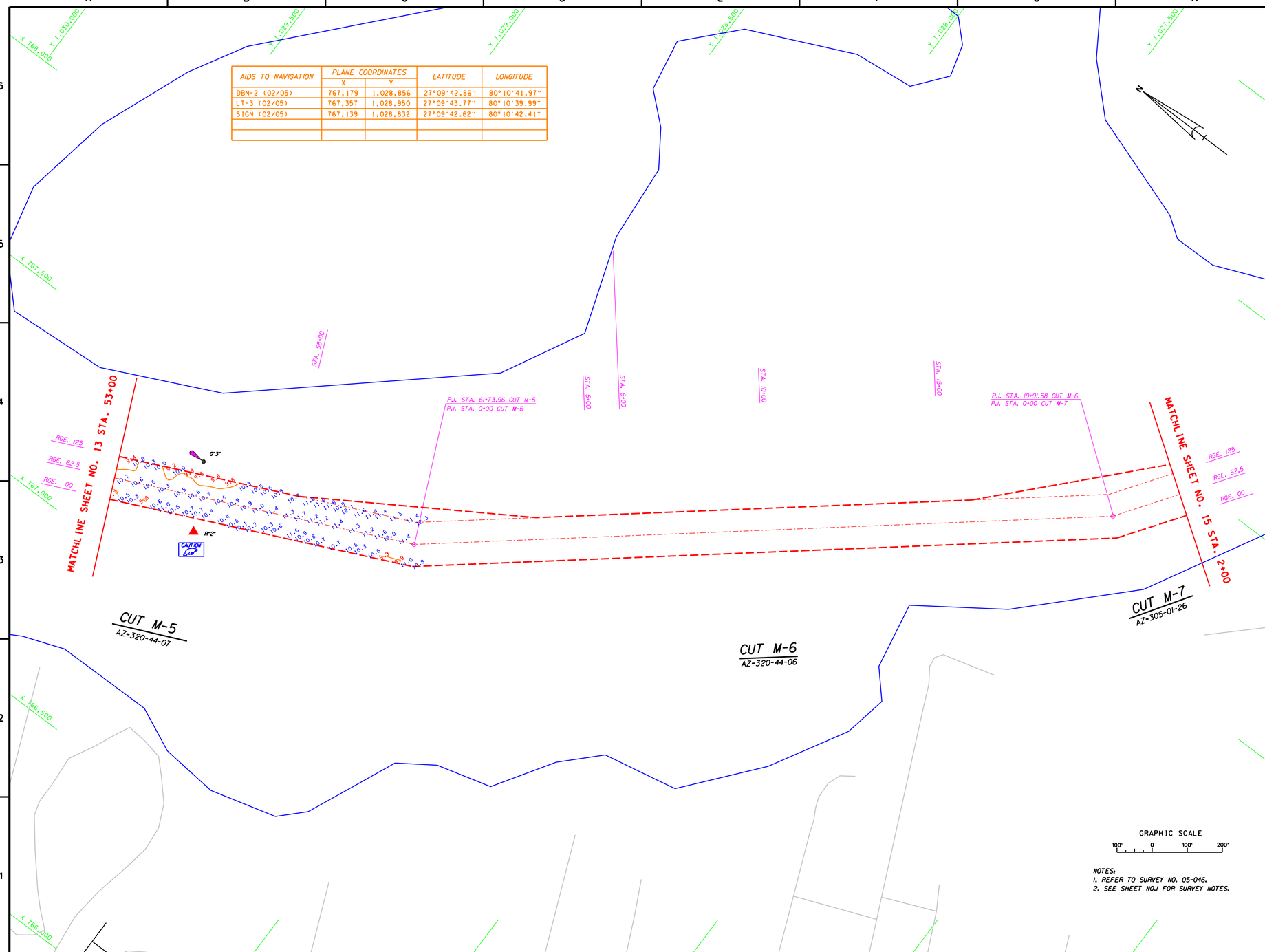
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
OKEECHOBEE WATERWAY, ST. LUCIE RIVER
PROJECT CONDITION SURVEY
8 & 10-FOOT PROJECT
STA.23+00 THRU STA.53+00 IWW CUT M-5
STA.0+00 THRU STA.9+00 OWW CUT-1
PLAN

DRAWING NO.
3/6

SHEET 13 OF 44

.../IWW_MART/g046pcs/g046sh13.dgn 02/08/2005 02:49:19 PM

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-2 (02/05)	767.179	1,028.856	27°09'42.86"	80°10'41.97"
LT-3 (02/05)	767.357	1,028.950	27°09'43.77"	80°10'39.99"
SIGN (02/05)	767.139	1,028.832	27°09'42.62"	80°10'42.41"



NOTES:
1. REFER TO SURVEY NO. 05-046.
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: N/A

Designed by: SWB
Dwn by: GRG
Ckd by: WHB
Date: FEB 2005
D.O.F ILE NO.

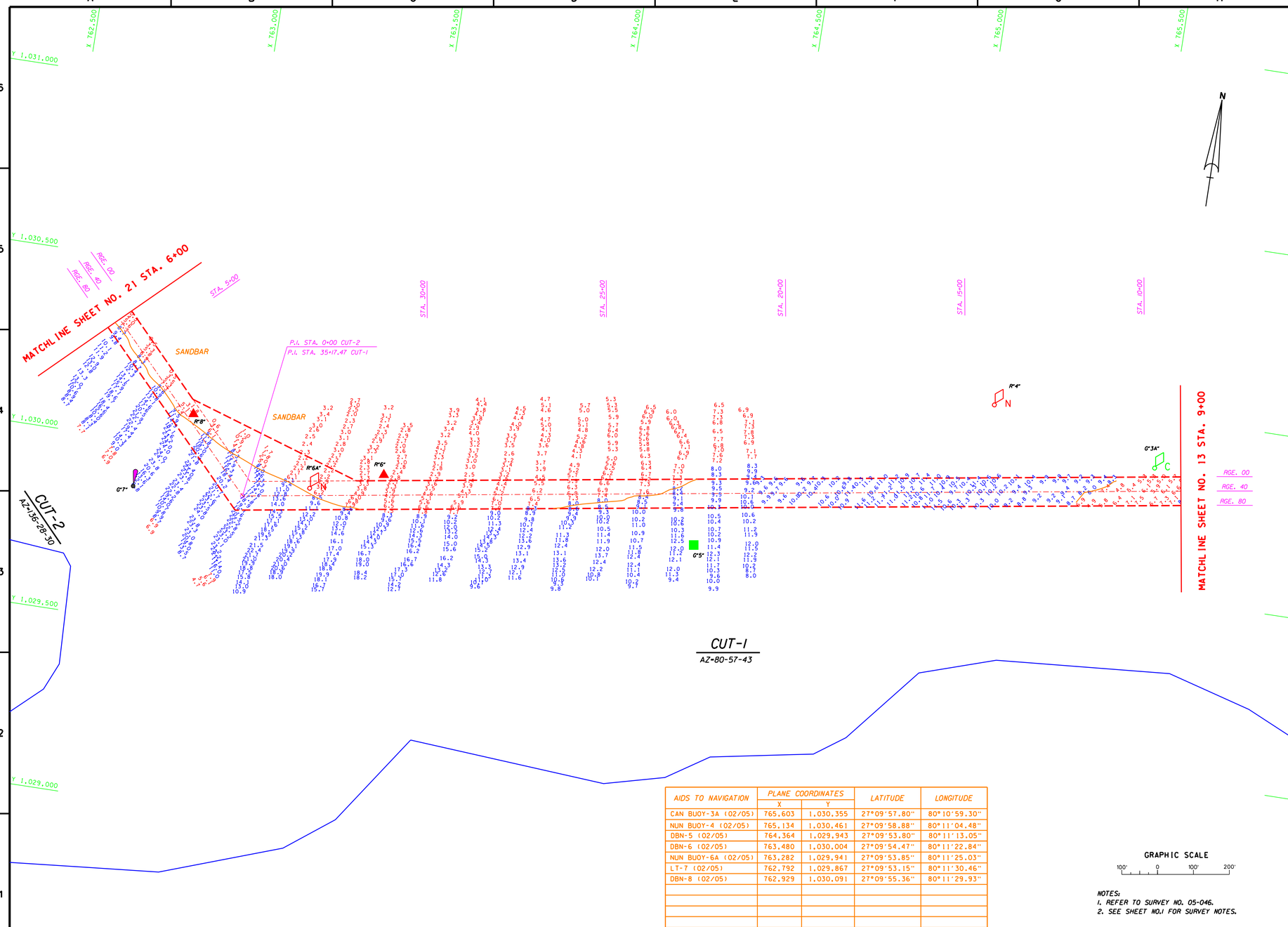
File name: G046SH14.DGN
Reference files: G047B6.DGN
MATCH1.DGN
MATCH2.DGN
CONTOUR.DGN
CONSBAR.DGN
CONRO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY
10-FOOT PROJECT
STA. 53+00 CUT M-5 THRU STA. 2+00 CUT M-7
PLAN

DRAWING NO.
4/6

SHEET 14 OF 44

.../IWW_MART/g046pcs/g046sh14.dgn 02/08/2005 02:50:15 PM



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-3A (02/05)	765,603	1,030,355	27°09'57.80"	80°10'59.30"
NUN BUOY-4 (02/05)	765,134	1,030,461	27°09'58.88"	80°11'04.48"
DBN-5 (02/05)	764,364	1,029,943	27°09'53.80"	80°11'13.05"
DBN-6 (02/05)	763,480	1,030,004	27°09'54.47"	80°11'22.84"
NUN BUOY-6A (02/05)	763,282	1,029,941	27°09'53.85"	80°11'25.03"
LT-7 (02/05)	762,792	1,029,867	27°09'53.15"	80°11'30.46"
DBN-8 (02/05)	762,929	1,030,091	27°09'55.36"	80°11'29.93"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-046.
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: XX:X

Designed by: [illegible]
Dwn by: [illegible]
Ckd by: [illegible]

Dated: FEB 2005
D.O.F.ILE NO.

File name: G046SH39.DGN
Reference files: G0470B5.DGN
G046SH20.DGN
MARTIBASE.DGN
CONCT01.DGN
CONCT11.DGN
CONCT12.DGN
CONCT13.DGN
CONCT14.DGN
CONB.DGN
CONR.DGN

OKEECHOBEE WATERWAY
ST. LUCIE CANAL, FLORIDA

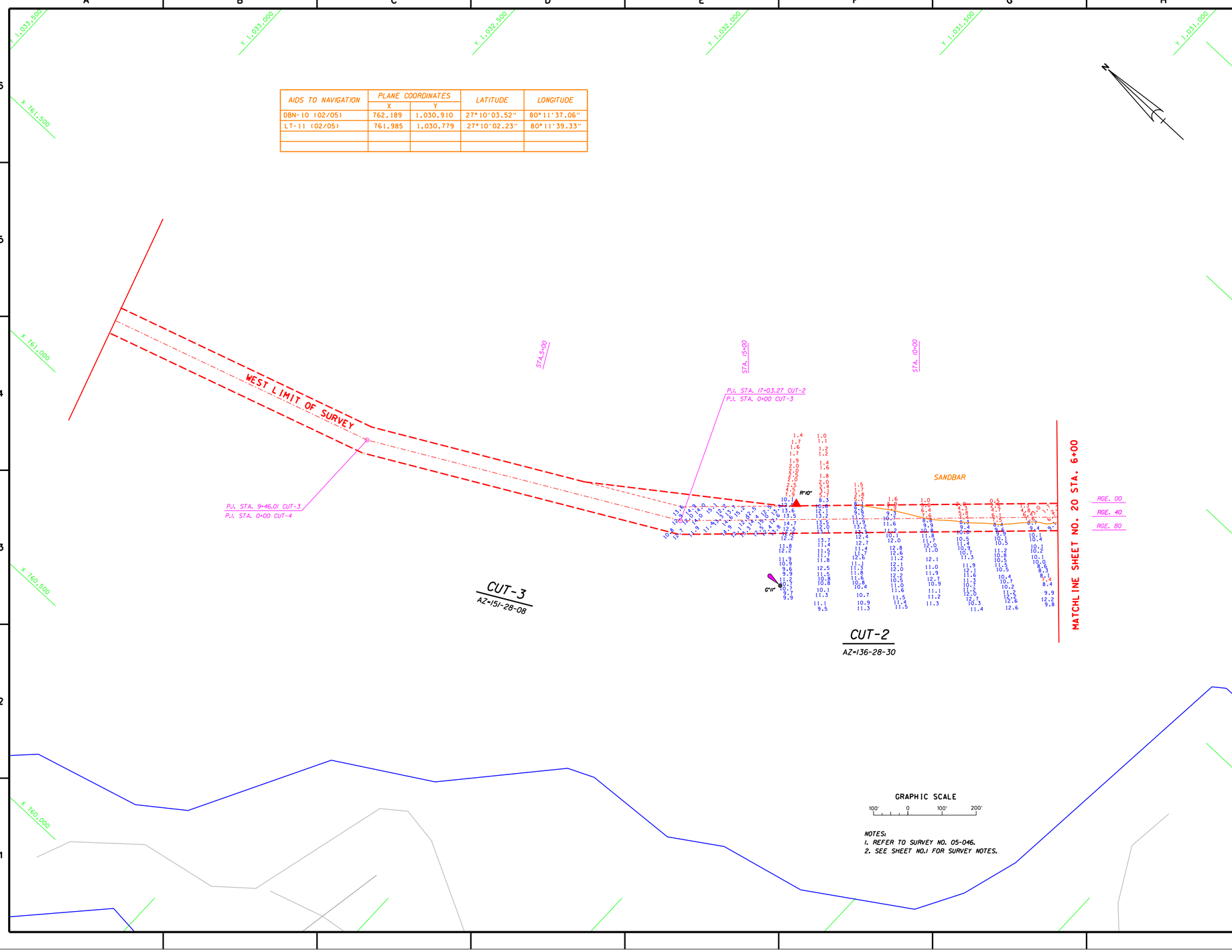
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA 9+00 CUT-1 THRU STA 6+00 CUT-2
PLAN

DRAWING NO.
5/6

SHEET 39 OF 44

.../IWW_MART/g046pcs/g046sh20.dgn 02/08/2005 02:53:15 PM

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-10 (02/05)	762,189	1,030,910	27°10'03.52"	80°11'37.06"
LT-11 (02/05)	761,985	1,030,779	27°10'02.23"	80°11'39.33"



NOTES:
1. REFER TO SURVEY NO. 05-046.
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
Dwgs# XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: X:X

Designed by: Wayne Dsn. by: Dwn. by: Chk. by: Dated FEB 2005
D.O.F ILE NO.

File name: G046SH40.DGN
Reference files: G0C056.DGN G046CT1.DGN MARTBASE.DGN G046CT2.DGN G046CT3.DGN G046A1.DGN CONB.DGN

OKEECHOBEE WATERWAY
ST. LUCIE CANAL, FLORIDA

PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 6+00 CUT-2 THRU STA. 9+46 CUT-3
PLAN

DRAWING NO.
6/6

SHEET 21 OF 44

.../IWW_MART/g046pcs/g046sh21.dgn 02/08/2005 03:03:40 PM