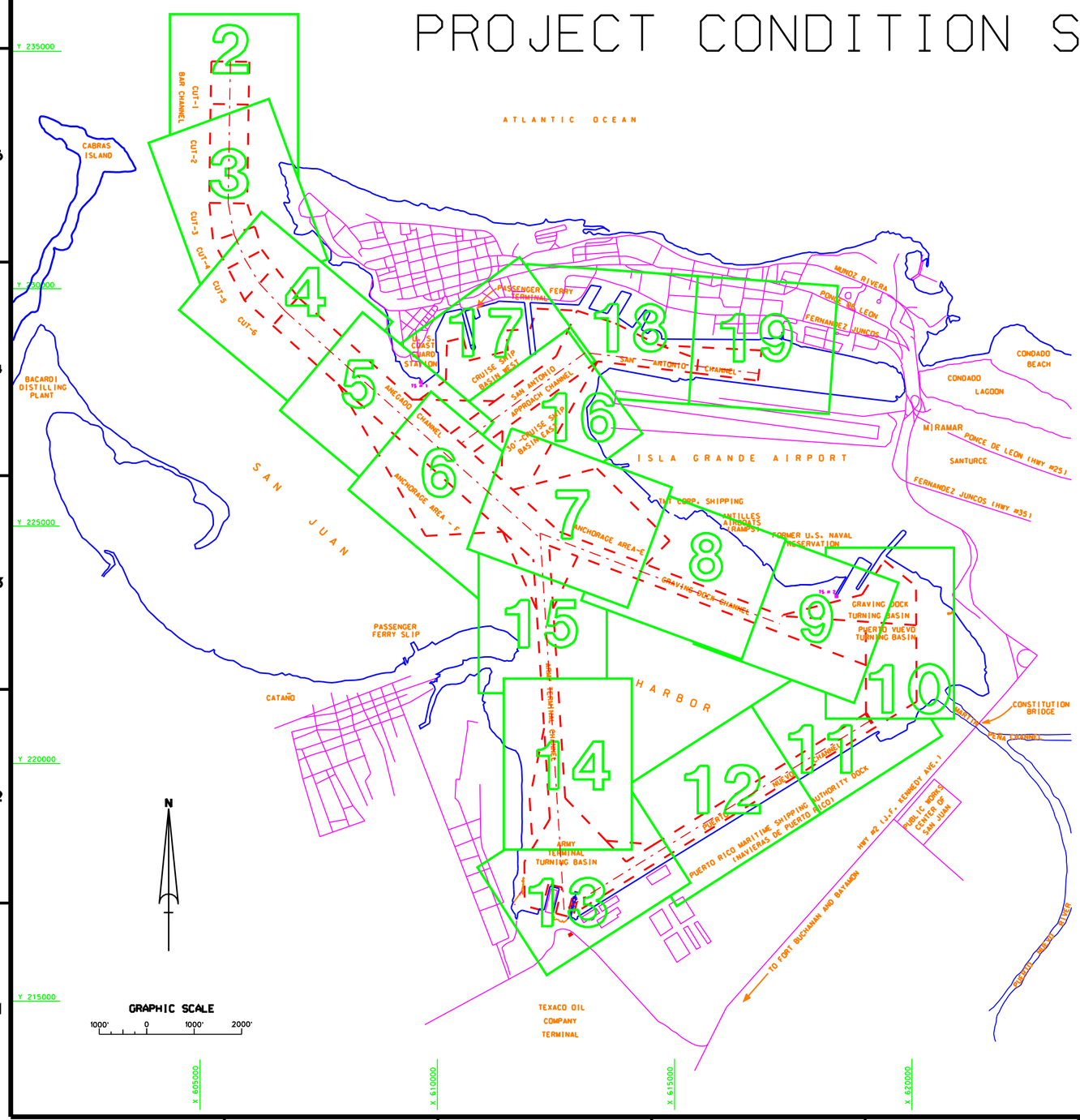
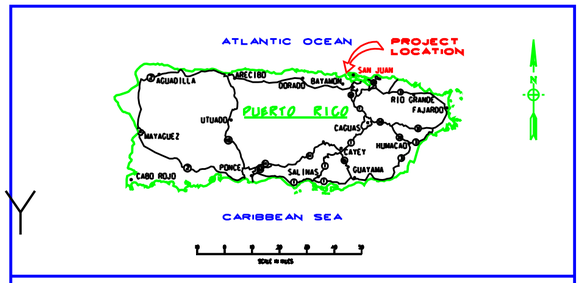
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY





LOCATION MAP

SURVEY NOTES:

1. REFER TO SURVEY NO. 05-119.
2. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS, NORTH ZONE (NAD-27/79 FEET).
3. ALL AZIMUTHS ARE GRID: RECKONED CLOCKWISE FROM SOUTH.
4. STATIONING REFERS TO CENTERLINE OF CHANNEL EXCEPT FOR WIDENER STATIONING.
5. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER (MLW) DATUM WHICH IS 0.55 FEET BELOW NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
6. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY PLUS SIGN (+).
7. THE SURVEY DATA DEPICTED ON THIS MAP WAS OBTAINED DURING THE PERIOD OF SEPTEMBER 2005.
8. EQUIPMENT & HYDRO SURVEY INFORMATION:
   POSITIONING: DGPS ASHTECH RELIANCE
   SOUNDER: ECHOTRAC DF 3200 MK II, HIGH FREQUENCY
   REFERENCE STATION: U.S. COAST GUARD NAV BEACON - ISABELA, PUERTO RICO
   DGPS CALIBRATION STATION: SJH-44 & DRY DOCK.
   LOCATION OF TIDE STAFF: TS = 1 COAST GUARD AREA & TS = 2 DRY DOCK.
   BENCH MARK: SJH-44 & DRY DOCK.
   VESSEL: RUDITA
9. STANDARD FIELD CALIBRATIONS FOR ALL EQUIPMENT WAS PERFORMED. RESULTING ACCURACY WAS WITHIN MANUFACTURER'S SPECIFICATIONS.
10. THE INFORMATION DEPICTED IN THESE DRAWINGS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING 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.

HORIZONTAL & VERTICAL CONTROL

CONTROL MONUMENT	PLANE COORDINATES (NAD27/79 FEET)		NGVD-29 ELEVATION
	EASTING	NORTHING	
SJH 44	609691.087	227982.593	4.96
DRY DOCK	618420.014	223529.667	7.831
U.S. COAST GUARD DGPS BEACON	67°04'01.0554"E	18°27'46.7022"N	N/A

RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER

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-XXX
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

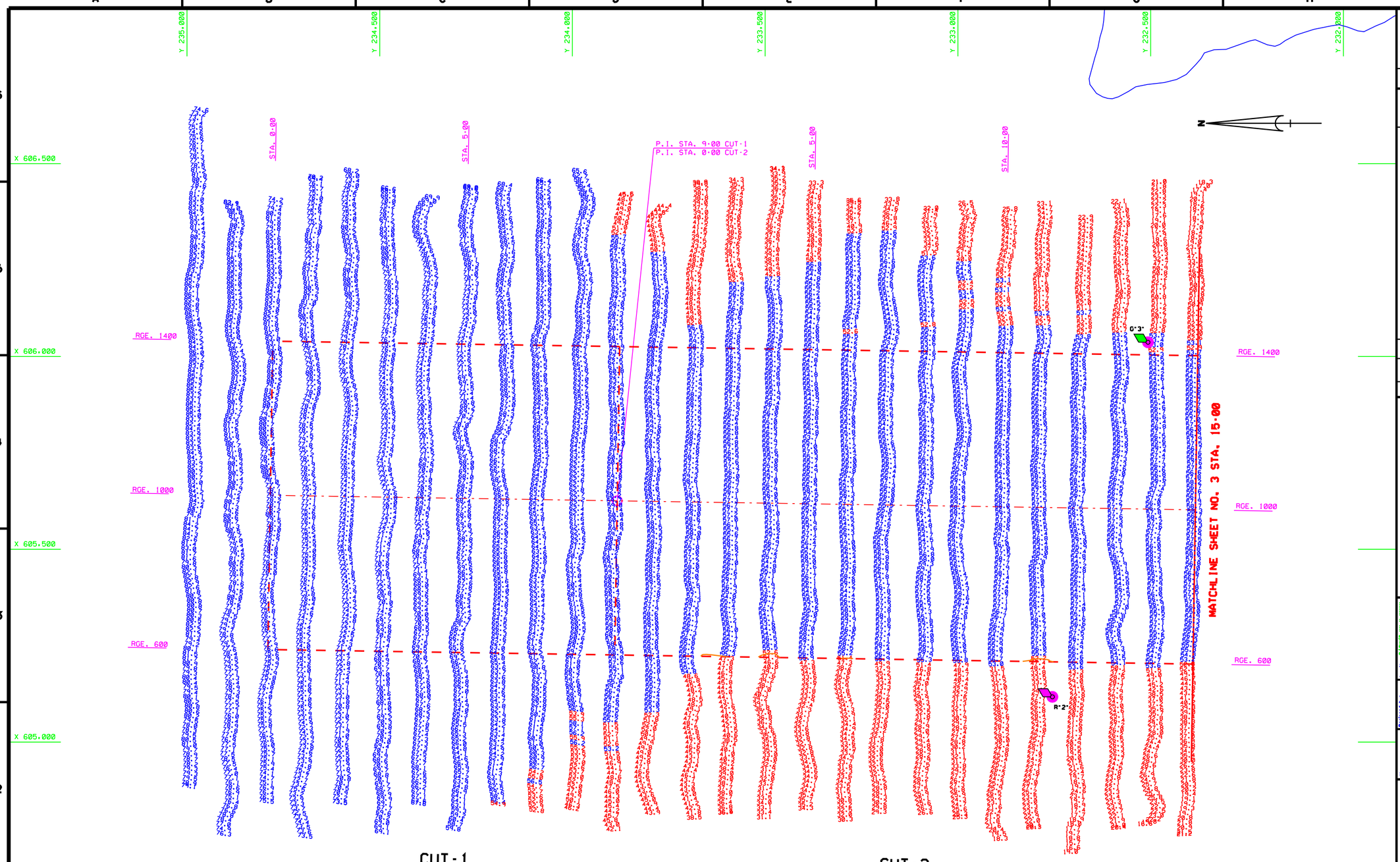
Designed by: WRN
Dwn by: WRN
Ckd by: WRN
Date: SEP 2005
D.O.FILE NO. XXX-XX-XXXX

File name: C195HOLDCN
Reference files: BROR8LDCN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
COVER AND INDEX PLAN

DRAWING NO.
1/19

SHEET 1 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (09/05)	605.117	232.754	18°28'26.74"	66°07'47.94"
LT. BUOY-3 (09/05)	606.036	232.507	18°28'24.27"	66°07'38.39"

NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

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

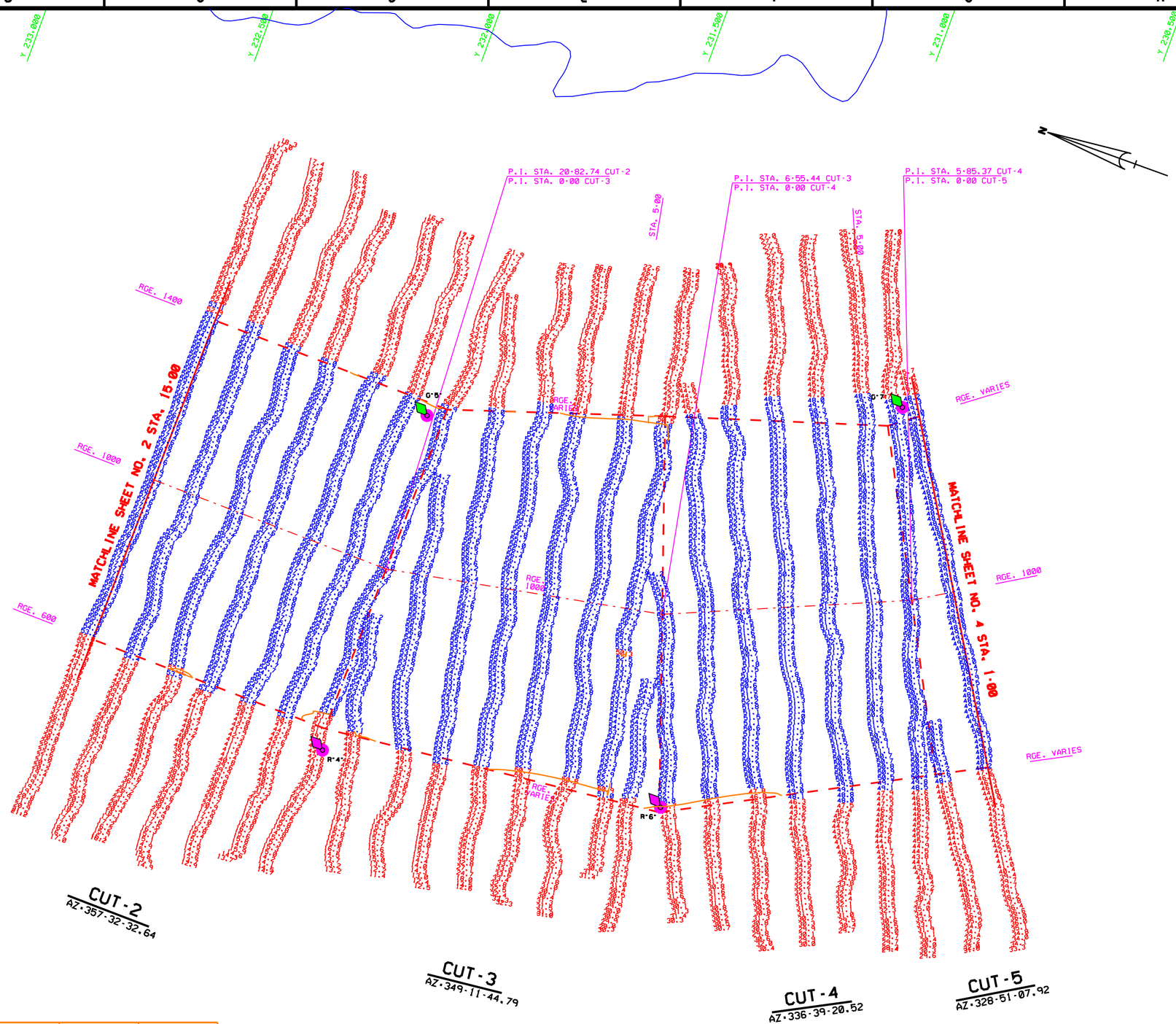
Date: SEP 2005
D.O. FILE NO. XXX-XX.XXX

File name: G19SH02.DGN
Reference files: BRDR98.DGN G19CHAN.DGN G19PLAN.DGN G19CT1.DGN G19CT2.DGN G19MAV.DGN CON_53.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 0+00 CUT-1 THRU STA. 15+00 CUT-2
PLAN

DRAWING NO.
2/19

SHEET 2 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-4 (09/05)	605.143	231.795	18°28'17.23"	66°07'47.68"
LT. BUOY-5 (09/05)	605.963	231.834	18°28'17.61"	66°07'39.16"
LT. BUOY-6 (09/05)	605.290	231.006	18°28'09.40"	66°07'46.17"
LT. BUOY-7 (09/05)	606.364	230.795	18°28'07.30"	66°07'35.01"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
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-X1-X-XXXX
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

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

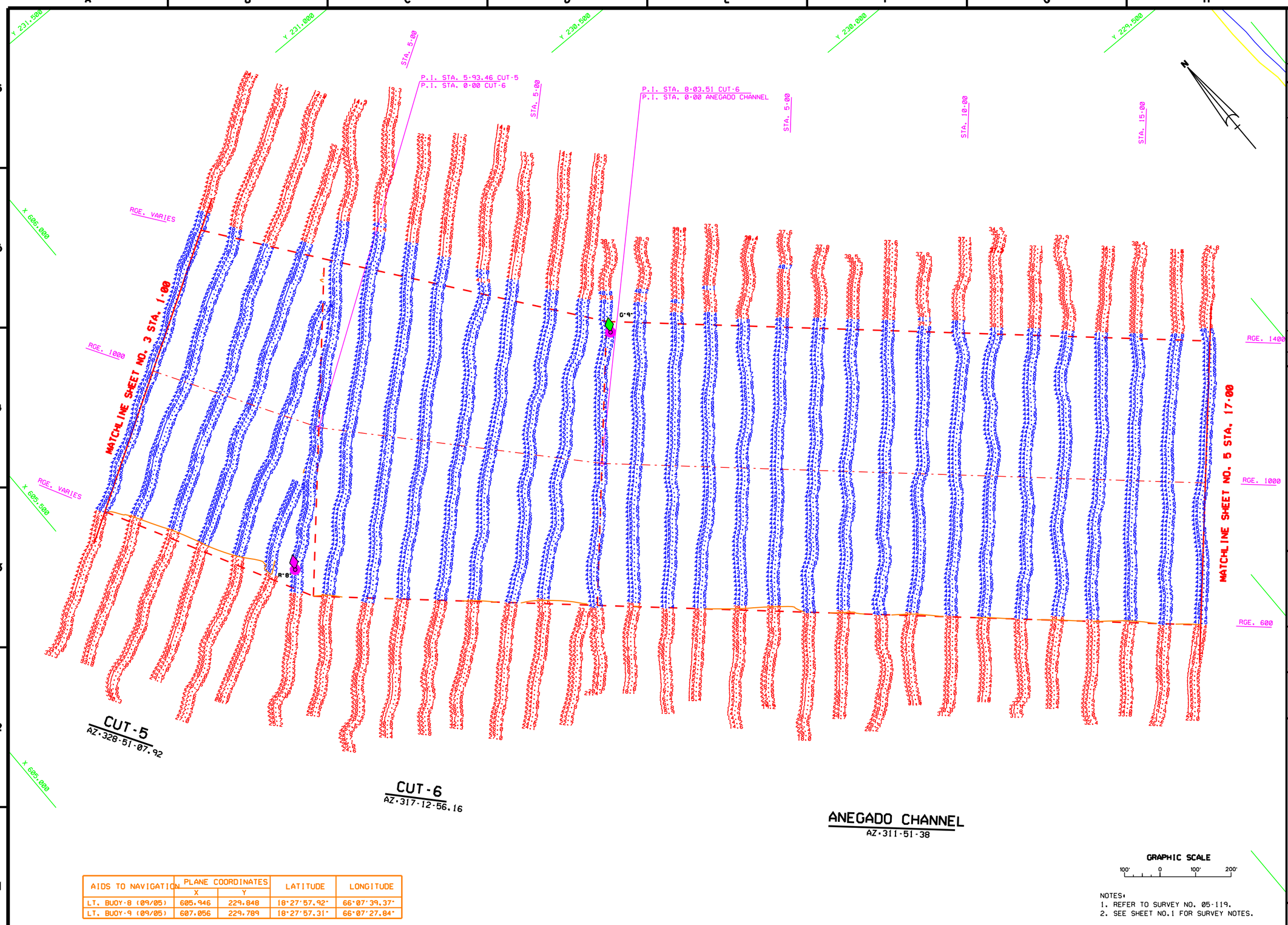
Dates: SEP 2005
D.O.FILE NO. XXX-XX.XXX

File name: C195P4S1.DGN
Reference files: G0P098.DGN
C195P4S2.DGN
C195P4S3.DGN
C195C12.DGN
C195C13.DGN
C195C14.DGN
C195M1.DGN
C195M2.DGN
C195M3.DGN
C195T.DGN
CCR_STDS.DGN
CCR_SEED.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 15+00 CUT-2 THRU STA. 1+00 CUT-5
PLAN

DRAWING NO.
3/19

SHEET 3 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-8 (09/05)	605.946	229.848	18°27'57.92"	66°07'39.37"
LT. BUOY-9 (09/05)	607.056	229.789	18°27'57.31"	66°07'27.84"

NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Date	Description	Approved

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

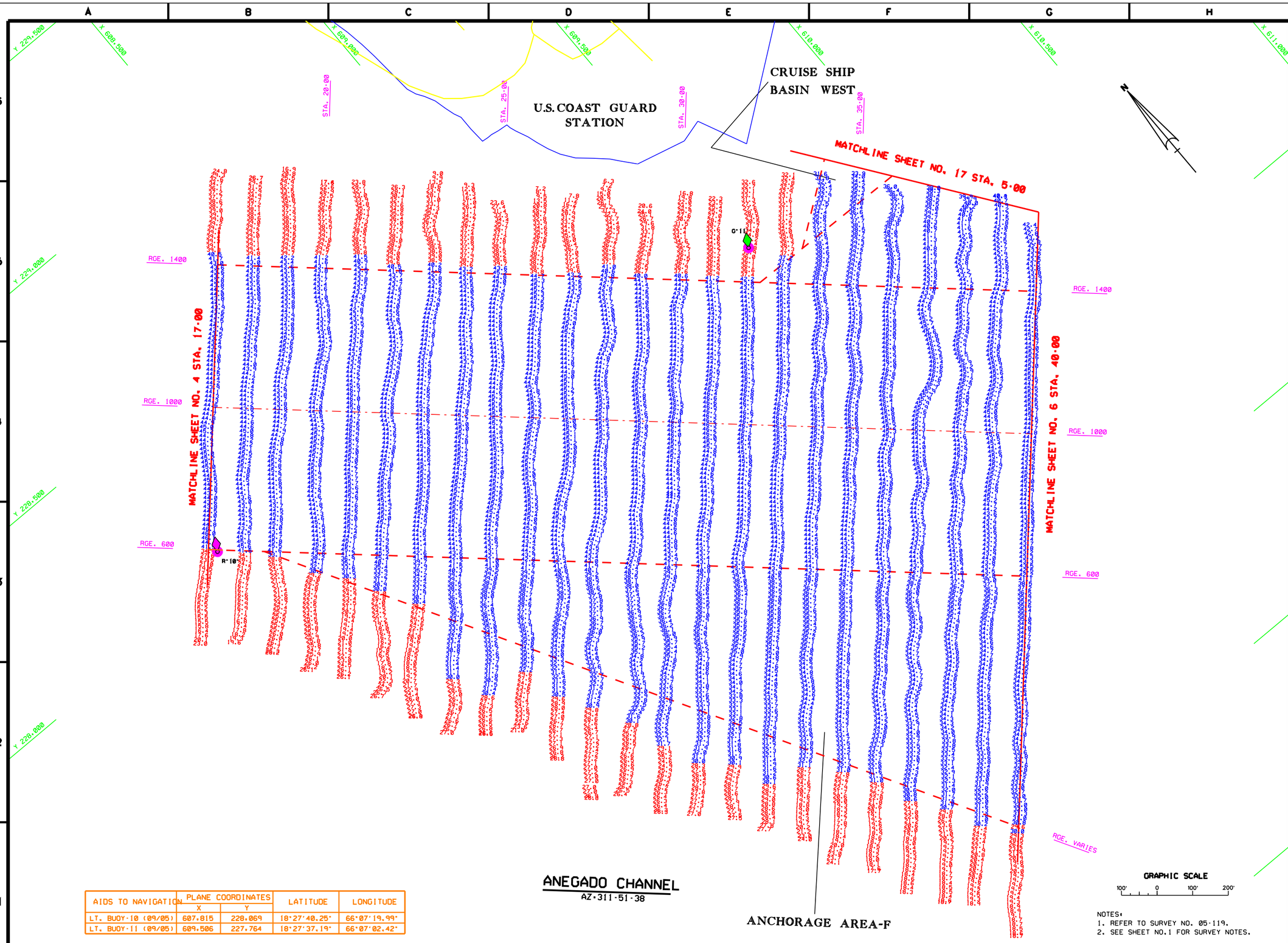
Rev. No. DACW17-XX-X-XXXX
Dataset XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale XXXX
Designed by WRW
Dwn by WRW
Chd by WRW
Dataset SEP 2005
D.O.-FILE NO. XXX-XX.XXX

File name C119SHD4.DGN
Reference files
B00RSBL.DGN
C119QUAN.DGN
C119CUT1.DGN
C119CUT2.DGN
C119CUT3.DGN
C119CUT4.DGN
C119BAY.DGN
CON_1.DGN
CON_2.DGN
CON_3.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 1+00 CUT-5 THRU STA. 17+00 ANEGADO CH.
PLAN

DRAWING NO.
4/19

SHEET 4 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-10 (09/05)	607.815	228.069	18°27'40.25"	66°07'19.99"
LT. BUOY-11 (09/05)	609.506	227.764	18°27'37.19"	66°07'02.42"

NOTES:
1. REFER TO SURVEY NO. 05-119.
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

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

Designed by WMJ
Dwn by WMJ
Ckd by WMJ

Date: SEP 2005
D.O. FILE NO. XXX-XX.XXX

File name: C119SHOL.DGN
References files: BROSHL.DGN C119CHAN.DGN C119ANE.DGN C119NAV.DGN CON-40.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY 30-FT THRU 56-FT PROJECT

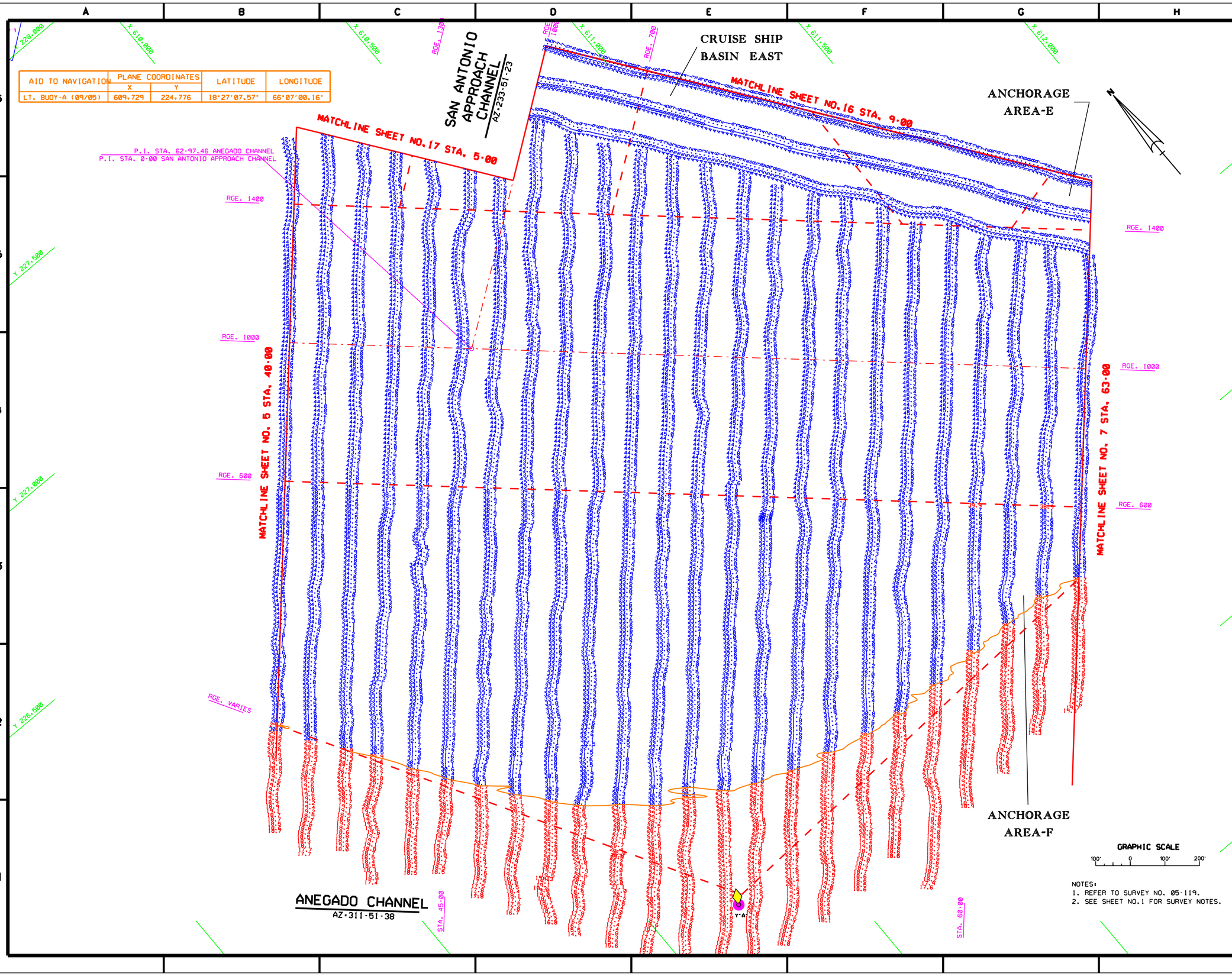
STA. 17+00 THRU STA. 40+00 ANEGADO CHANNEL

PLAN

DRAWING NO.
5/19

SHEET 5 OF 19

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-A (09/05)	609.729	224.776	18°27'07.57"	66°07'00.16"



NOTES:
1. REFER TO SURVEY NO. 05-119.
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

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

Designed by: WRM
Dwn by: WRM
Chkd by: WRM

Dated: SEP 2005
D.O.FILE NO. XXX-XX.XXX

File name: G119SHOS.DGN
Reference files: BROOKS.DGN G119CHA1.DGN G119CHA2.DGN G119AREC.DGN G119SAA1.DGN G119SAA2.DGN BLUE.DGN CON_50.DGN

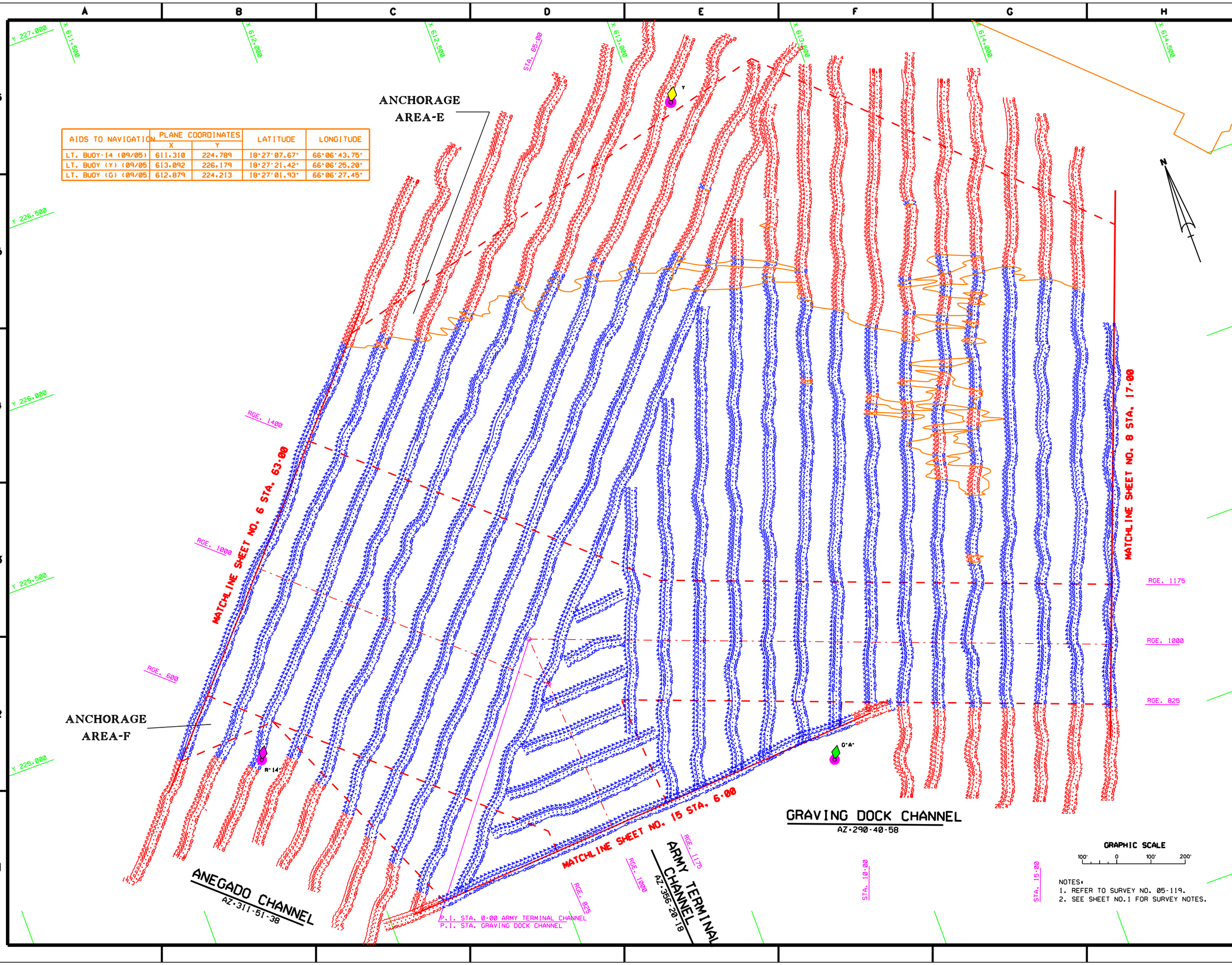
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY 30-FT THRU 56-FT PROJECT

STA.40-00 THRU STA.63-00 ANEGADO CHANNEL
PLAN

DRAWING NO.
6/19

SHEET 6 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-14 (09/05)	611.310	224.789	18°27'07.67"	66°06'43.75"
LT. BUOY (Y) (09/05)	613.092	226.179	18°27'21.42"	66°06'25.20"
LT. BUOY (G) (09/05)	612.879	224.213	18°27'01.93"	66°06'27.45"

NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

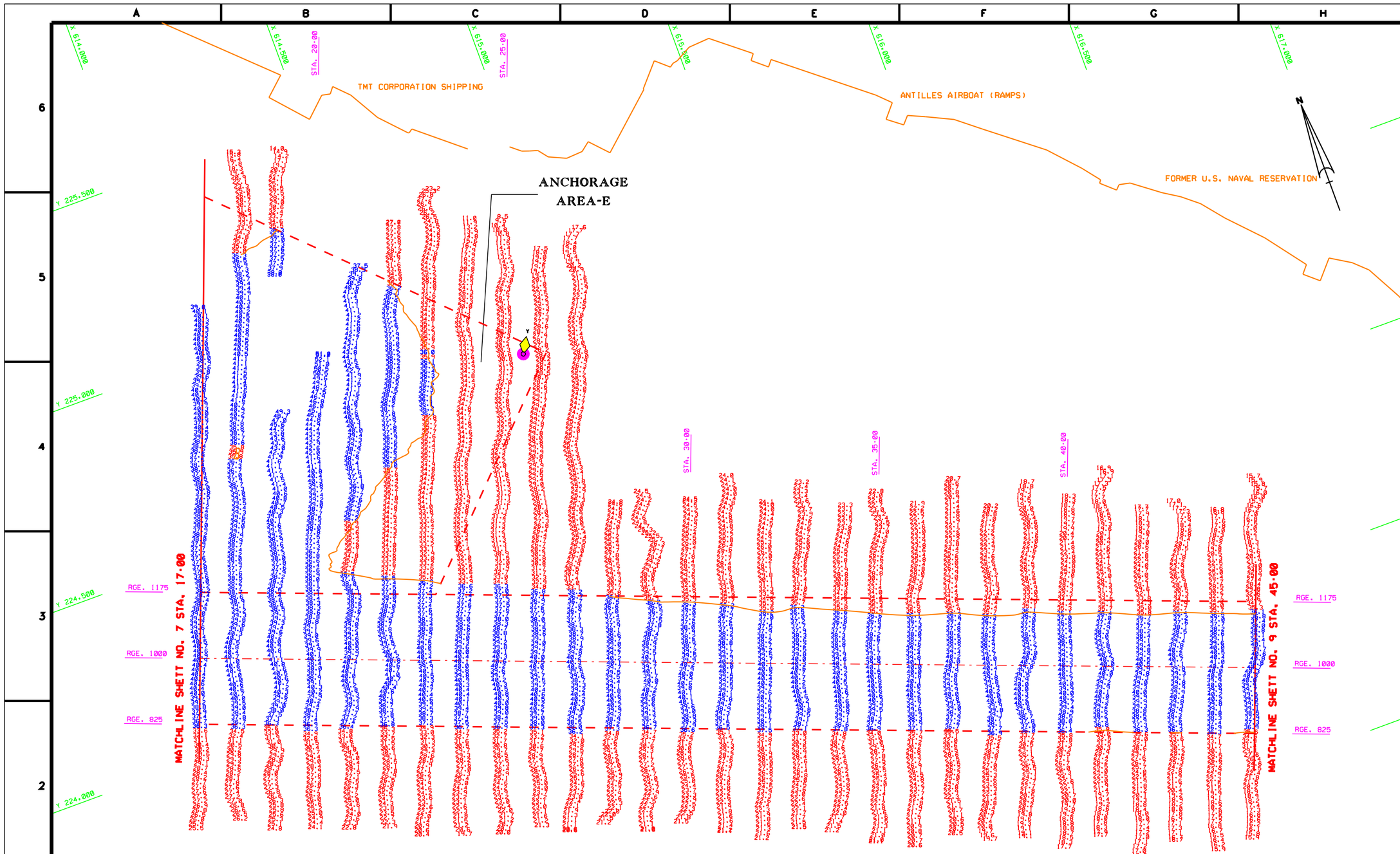
Designed by: WRM
Dwn by: WRM
Ckd by: WRM
Date: SEP 2005
D.O.FILE NO. XXX-XX.XXX

File name: G19SH07.DGN
Reference files: BNDRSN.DGN, G19PLAN.DGN, G19AMEG.DGN, G19DOC.DGN, G19MAV.DGN, CON_SD.DGN, CON_SB.DGN, G19ATC2.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 63+00 ANEGADO CHANNEL THRU STA. 17+00
GRAVING DOCK CHANNEL, STA. 0+00 THRU
STA. 6+00 ARMY TERMINAL CHANNEL
PLAN

DRAWING NO.
7/19

SHEET 7 OF 19



GRAVING DOCK CHANNEL

AZ-290-40-58

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY (Y) (09/05)	614.837	224.713	18°27'06.85"	66°06'07.11"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
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
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XX:X

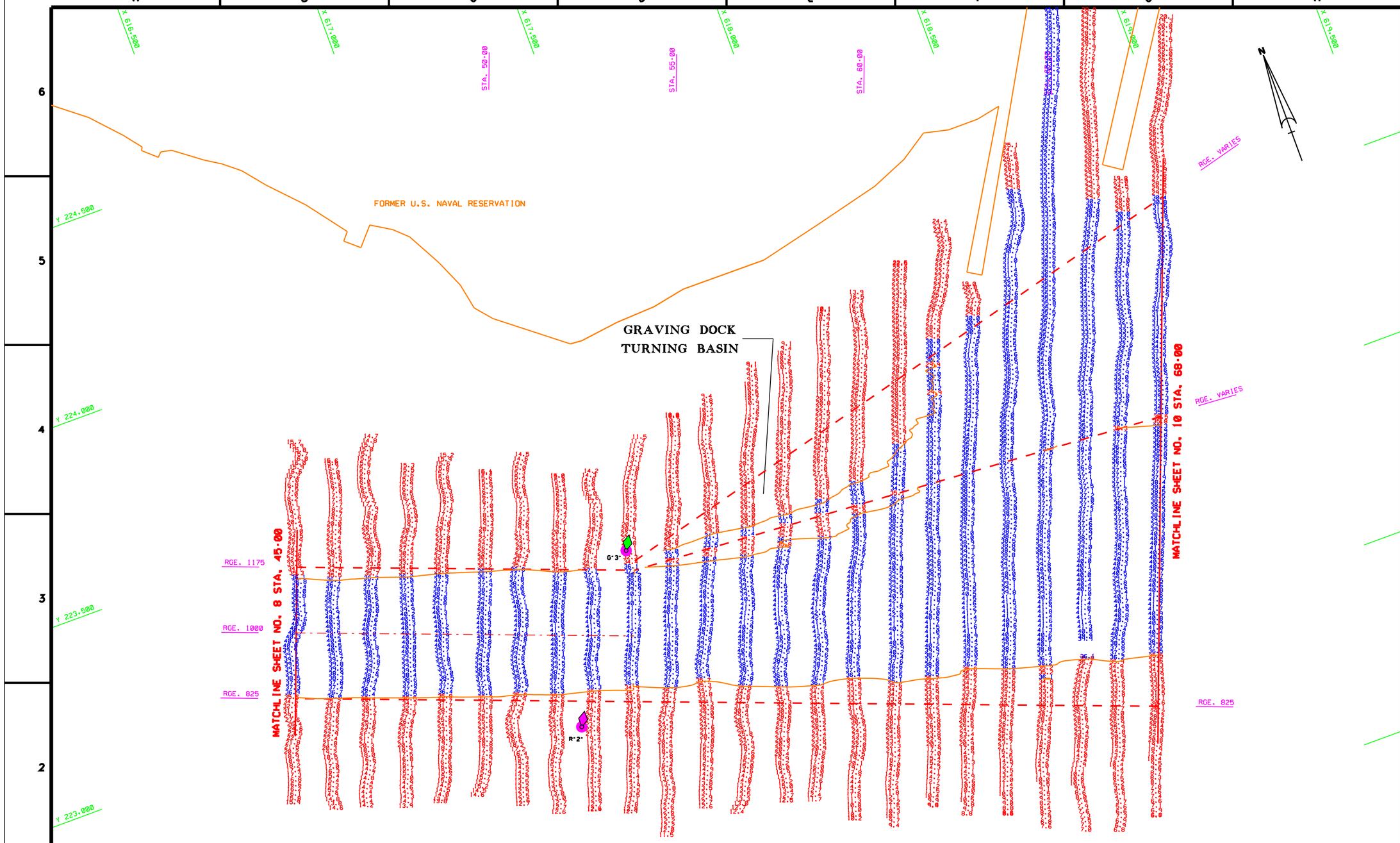
Designed by: WRW
Dwn by: WRW
Ckd by: WRW
Date: SEP 2005
D.O.FILE NO. XXX-XX.XXX

File name: G19SH08.DGN
Reference files: BRDR98.DGN G19CHAN.DGN G19PLAN.DGN G19GDC.DGN G19MAX.DGN CON_35.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.17+00 THRU STA.45+00
GRAVING DOCK CHANNEL
PLAN

DRAWING NO.
8/19

SHEET 8 OF 19



GRAVING DOCK CHANNEL

AZ=290-40-58

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (09/05)	617.001	222.764	18°26'47.49"	66°05'44.67"
LT. BUOY-3 (09/05)	617.274	223.164	18°26'51.46"	66°05'41.82"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
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
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: WRW
Dwn by: WRW
Chd by: WRW

Date: SEP 2005
D.O.FILE NO. XXX-XX.XXX

File name: C195H09.DGN
Reference files: B90598.DGN C195CHA0.DGN C195FL.DGN C195GRID.DGN C195G210.DGN C195L30.DGN CON_30.DGN CON_56.DGN

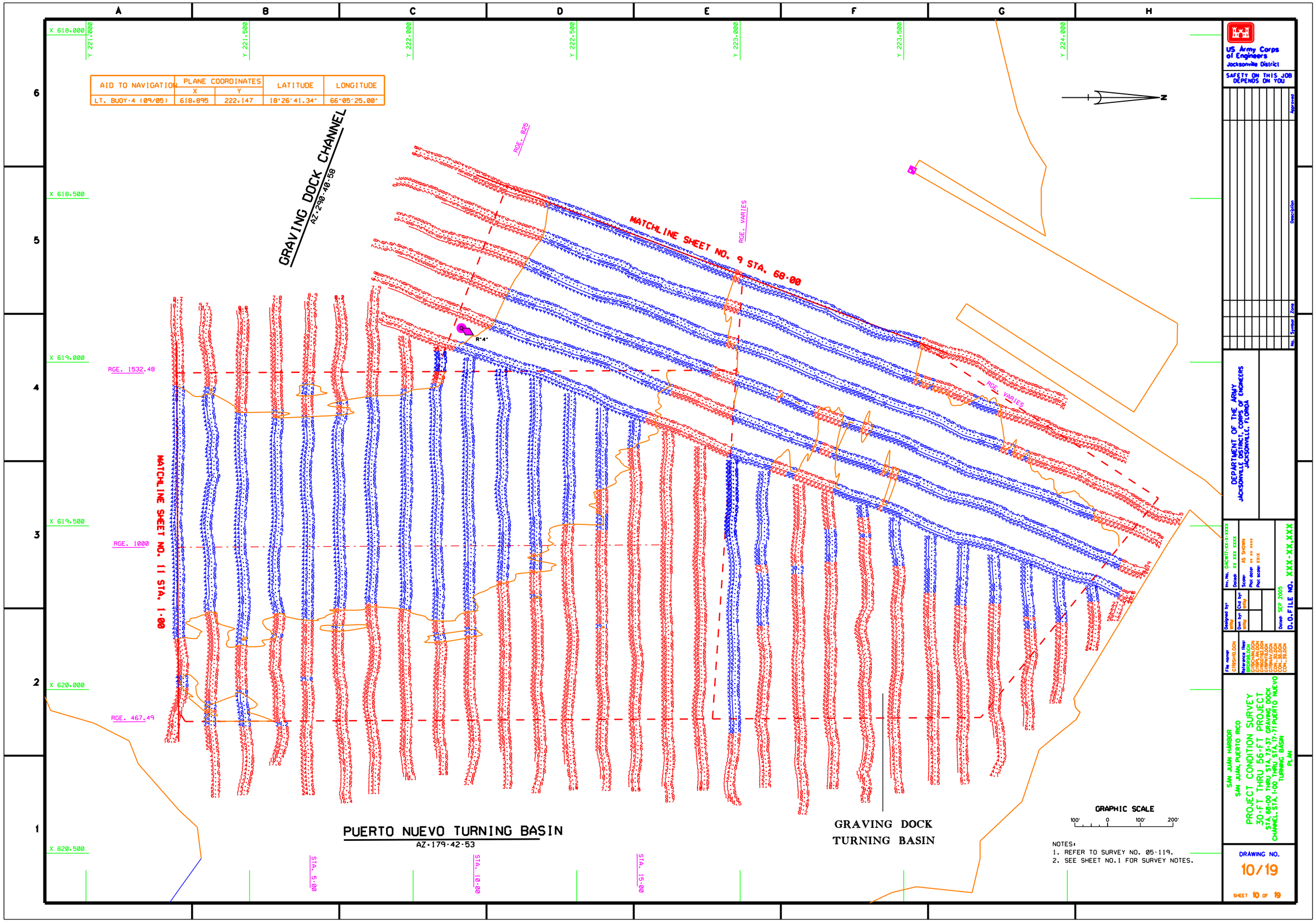
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

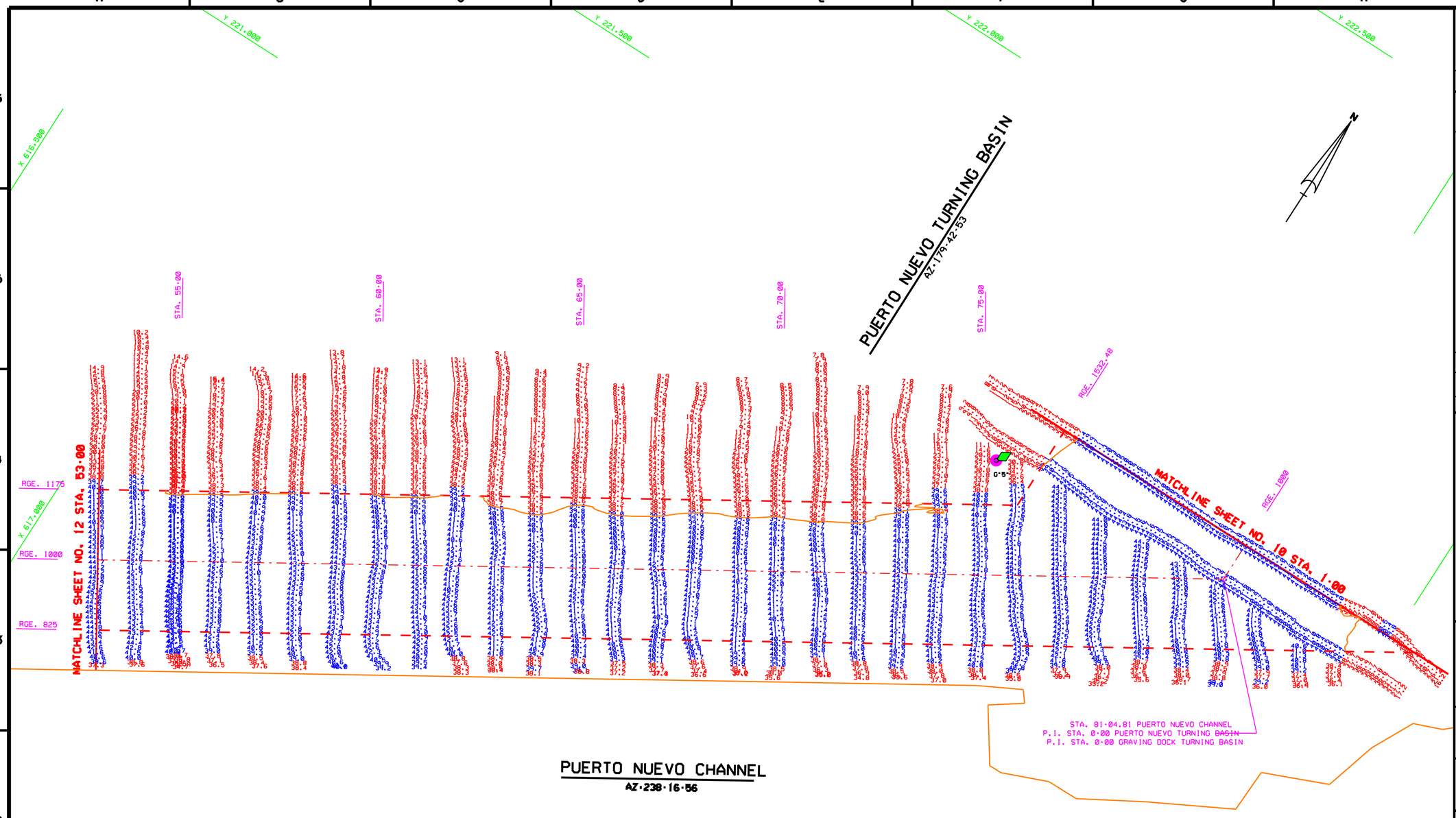
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.45+00 THRU STA.68+00
GRAVING DOCK CHANNEL
PLAN

DRAWING NO.
9/19

SHEET 9 OF 19

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-4 (09/05)	618.895	222.147	18°26'41.34"	66°05'25.00"





AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (09/05)	618.929	222.122	18°26'31.18"	66°05'24.67"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Date	Description	Approved

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

Des. No. DACW17-XX-X-XXXX
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

Designed by: BRG
Dwn by: BRG
Ckd by: BRG

Date: SEP 2005
D.O.FILE NO. XXX-XX.XXX

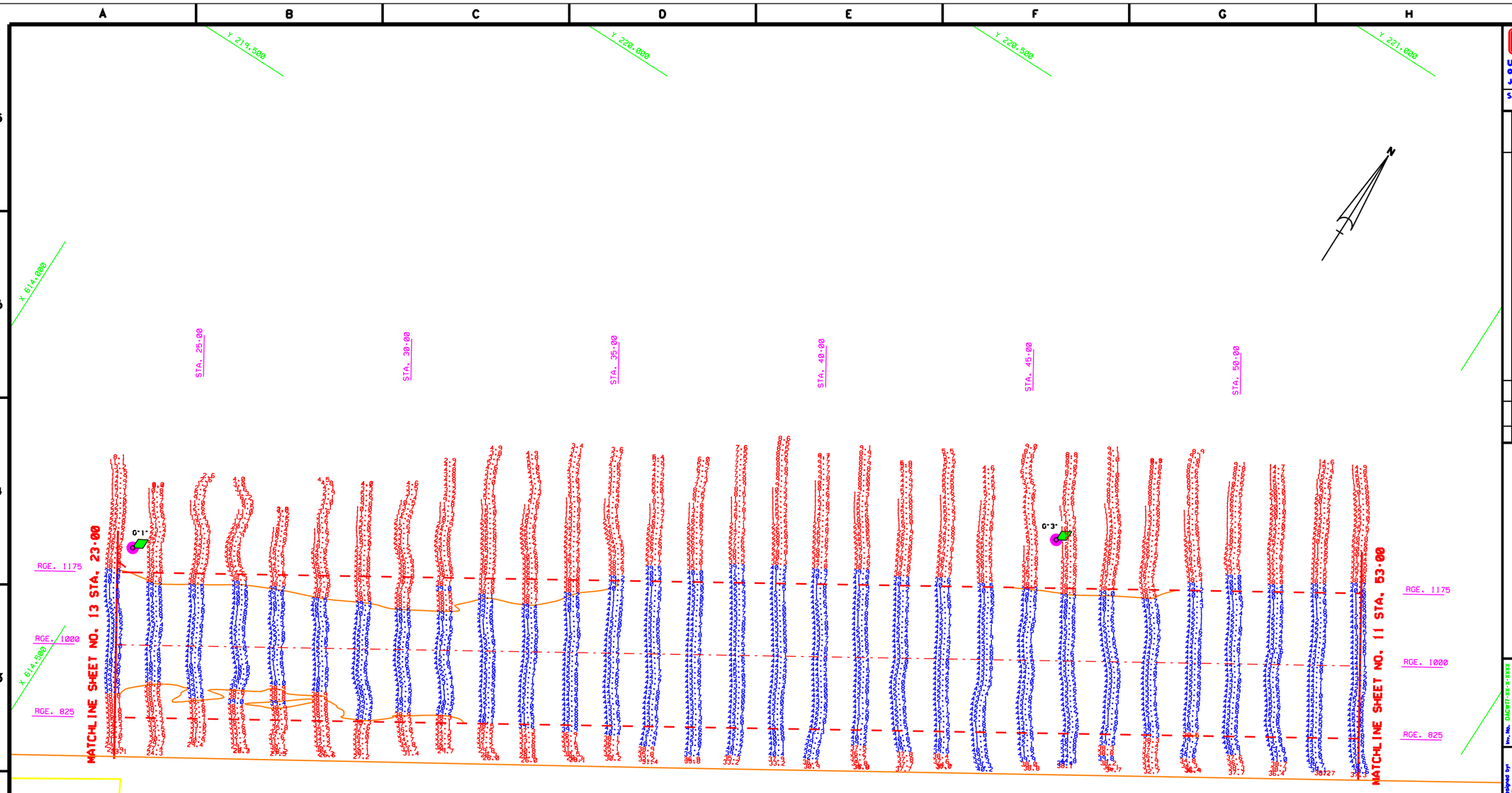
File name: G195H1LDGN
Reference files: B60068.DGN
G195CHALDGN
G195PLALDGN
G195PNTB.DGN
G195PNC.DGN
G195NUL.DGN
G195-39.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.53+00 PUERTO NUEVO CHANNEL THRU
STA.1+00 PUERTO NUEVO TURNING BASIN
PLAN

DRAWING NO.
11/19

SHEET 11 OF 19



PUERTO NUEVO CHANNEL

AZ=238-16-56

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-1 (09/05)	614,535	218,346	18°26'03.74"	66°06'10.36"
LT. BUOY-3 (09/05)	616,398	219,565	18°26'15.79"	66°05'50.98"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
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
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: X=X

Designed by: WRU
Dwn by: SMW
Chd by: SMW

Date: SEP 2005
D.O.FILE NO. XXX-XX-XXX

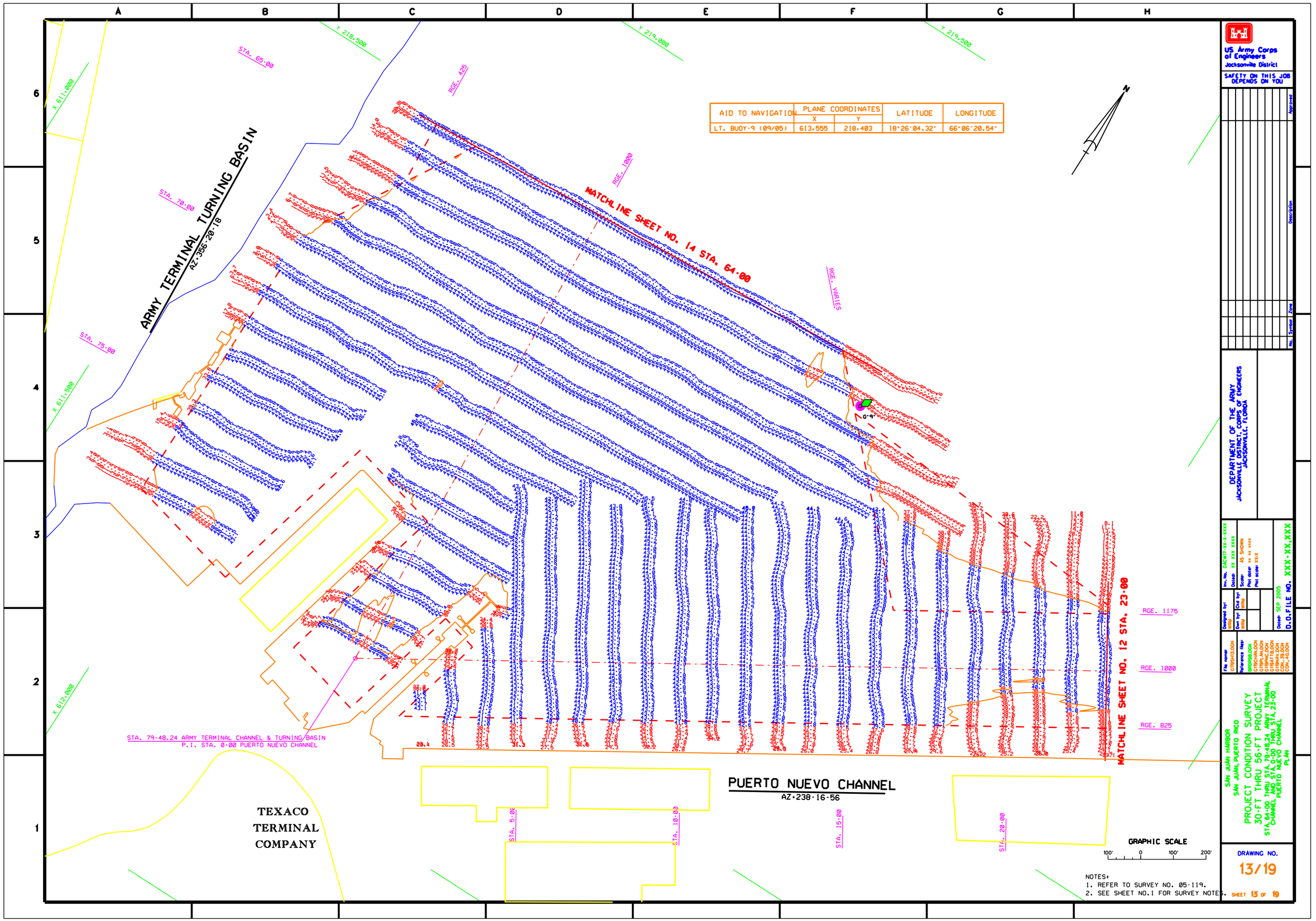
File name: G195H12.DGN
Reference files: B90R99.DGN G195CHAN.DGN G195FLAN.DGN G195PNC.DGN G195NAV.DGN CON_39.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.23+00 THRU STA.53+00 PUERTO NUEVO CHANNEL
PLAN

DRAWING NO.
12/19

SHEET 12 OF 19

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-9 (09/05)	613.555	218.403	18°26'04.32"	66°06'20.54"



NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Date	Description	Approved

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

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

Designed by: WRU
Dwn by: WRU
Chd by: WRU

Date: SEP 2005
D.O.FILE NO. XXX-XX.XXX

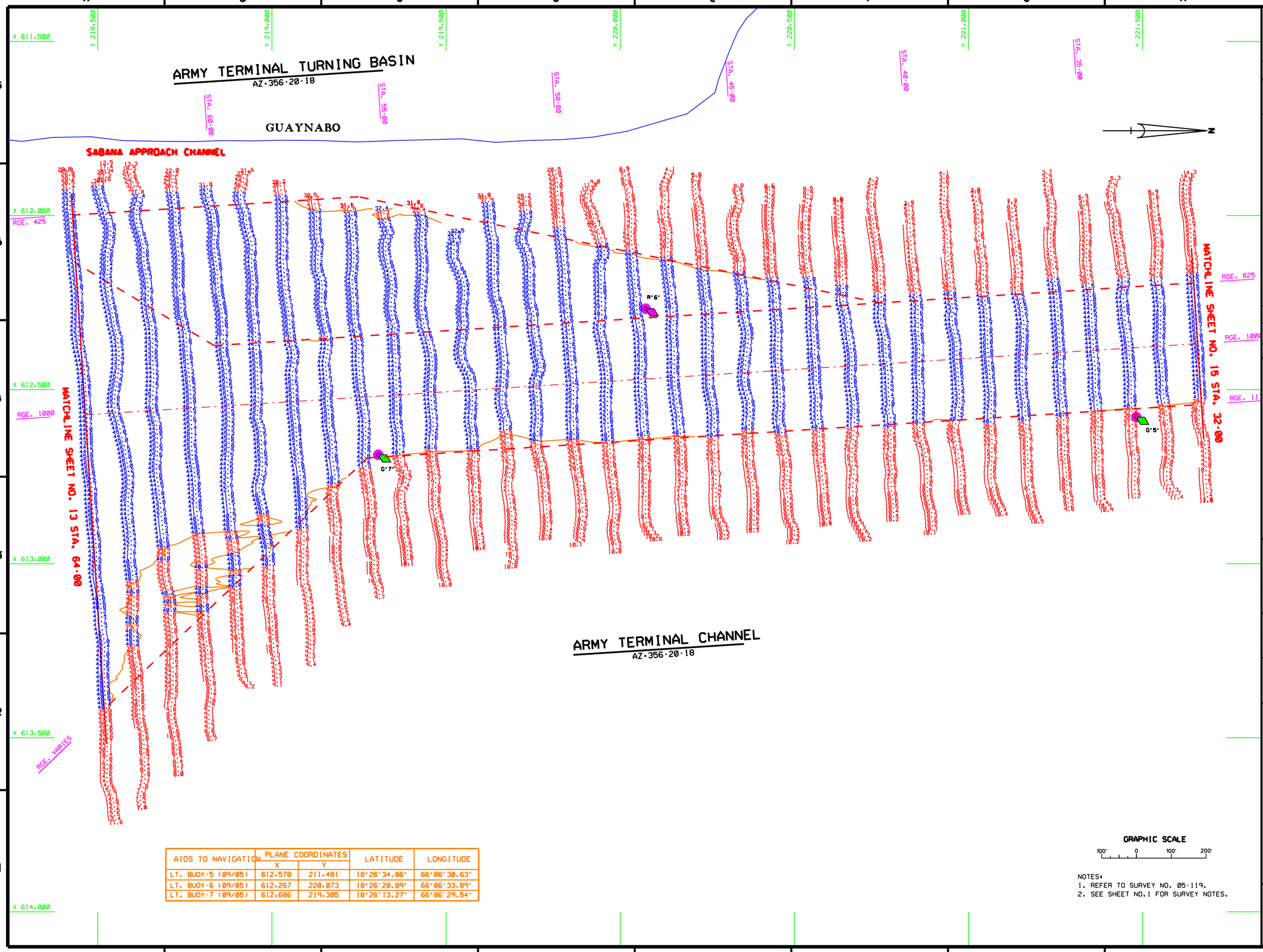
File name: C19SHEET.DGN
Reference files: BEORGB.DGN C19SCHAN.DGN C19PLAN.DGN C19PLAN2.DGN C19BATTB.DGN C19BAN.DGN C19BAN2.DGN CON_AD.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 64.00 THRU STA. 79.48.24 ARMY TERMINAL CHANNEL AND STA. 0.00 THRU STA. 23.00 PUERTO NUEVO CHANNEL
PLAN

DRAWING NO.
13/19

SHEET 13 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (09/05)	612.578	211.481	18°26'34.86"	66°06'30.63"
LT. BUOY-6 (09/05)	612.267	220.073	18°26'20.89"	66°06'33.89"
LT. BUOY-7 (09/05)	612.686	219.305	18°26'13.27"	66°06'29.54"

NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Date	Description	Approved

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

Proj. No. DACW17-XX-X-XXXX
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

Designed by: (Proj)
Dwn by: (Proj)
Ckd by: (Proj)

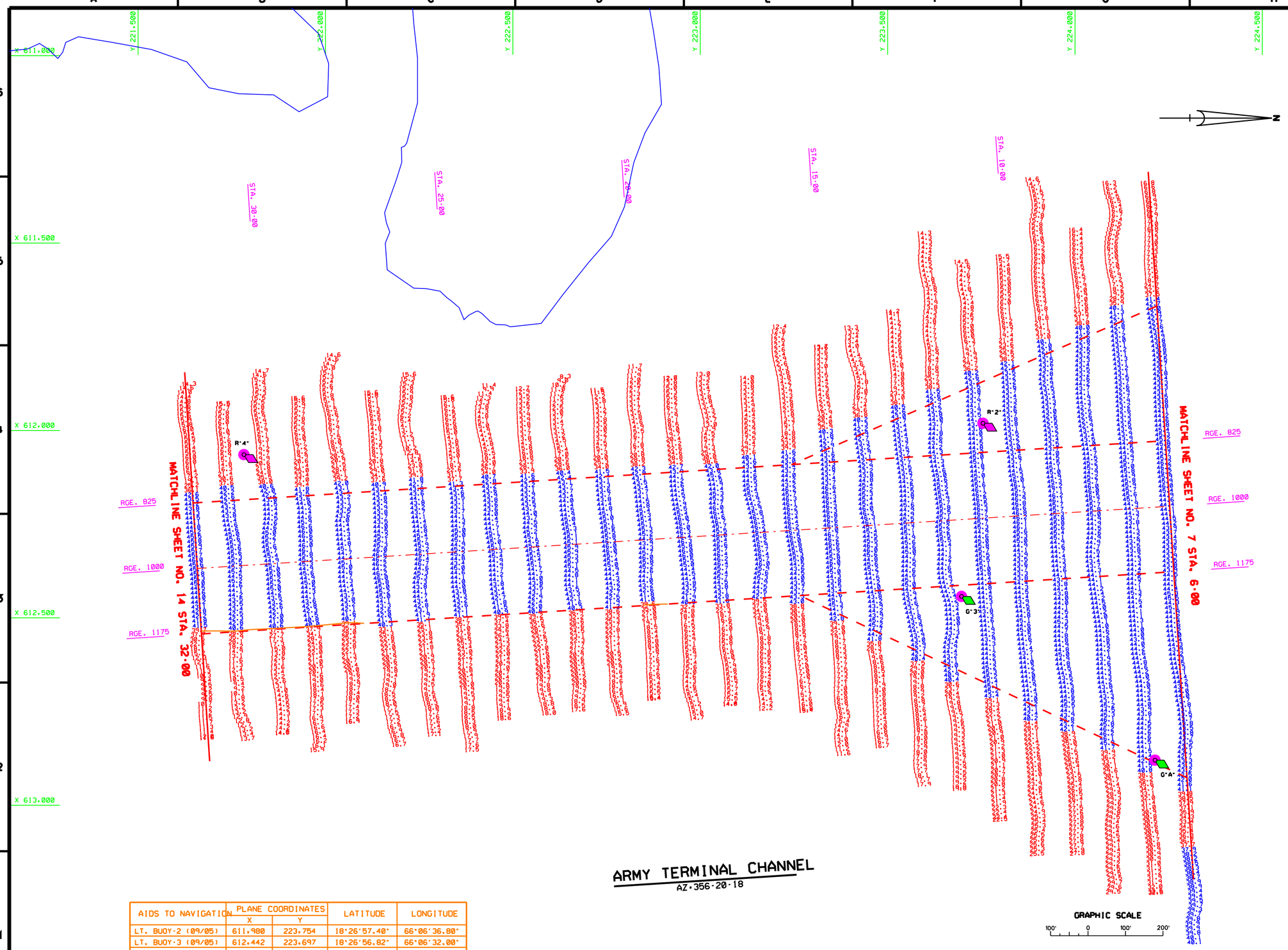
Dates: SEP 2005
D.O.FILE NO. XXX-XX.XXX

File name: G195p14.DGN
Reference files: B005GS0.DGN G195CH4.DGN G195PL1N.DGN G195AT1.DGN G195AT2.DGN G195NAV.DGN G195LT2.DGN CON_40.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 32+00 THRU STA. 64+00 ARMY TERMINAL CHANNEL
PLAN

DRAWING NO.
14/19

SHEET 14 OF 19



ARMY TERMINAL CHANNEL

AZ.356-20-18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (09/05)	611.980	223.754	18°26'57.40"	66°06'36.80"
LT. BUOY-3 (09/05)	612.442	223.697	18°26'56.82"	66°06'32.00"
LT. BUOY-4 (09/05)	612.064	221.782	18°26'37.84"	66°06'35.96"
BUOY-A (09/05)	612.879	224.213	18°27'01.93"	66°06'27.45"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
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
Datum: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

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

Date: SEP 2005

D.O.FILE NO. XXX-XX,XXXX

File name: CITBSP15.DGN
Reference files: BRIDGE.DGN CITBAN.DGN CITBPL.NN.DGN CITBATC.DGN CITBMAJ.DGN CODA_ALL.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.6+00 THRU STA.32+00 ARMY TERMINAL CHANNEL
PLAN

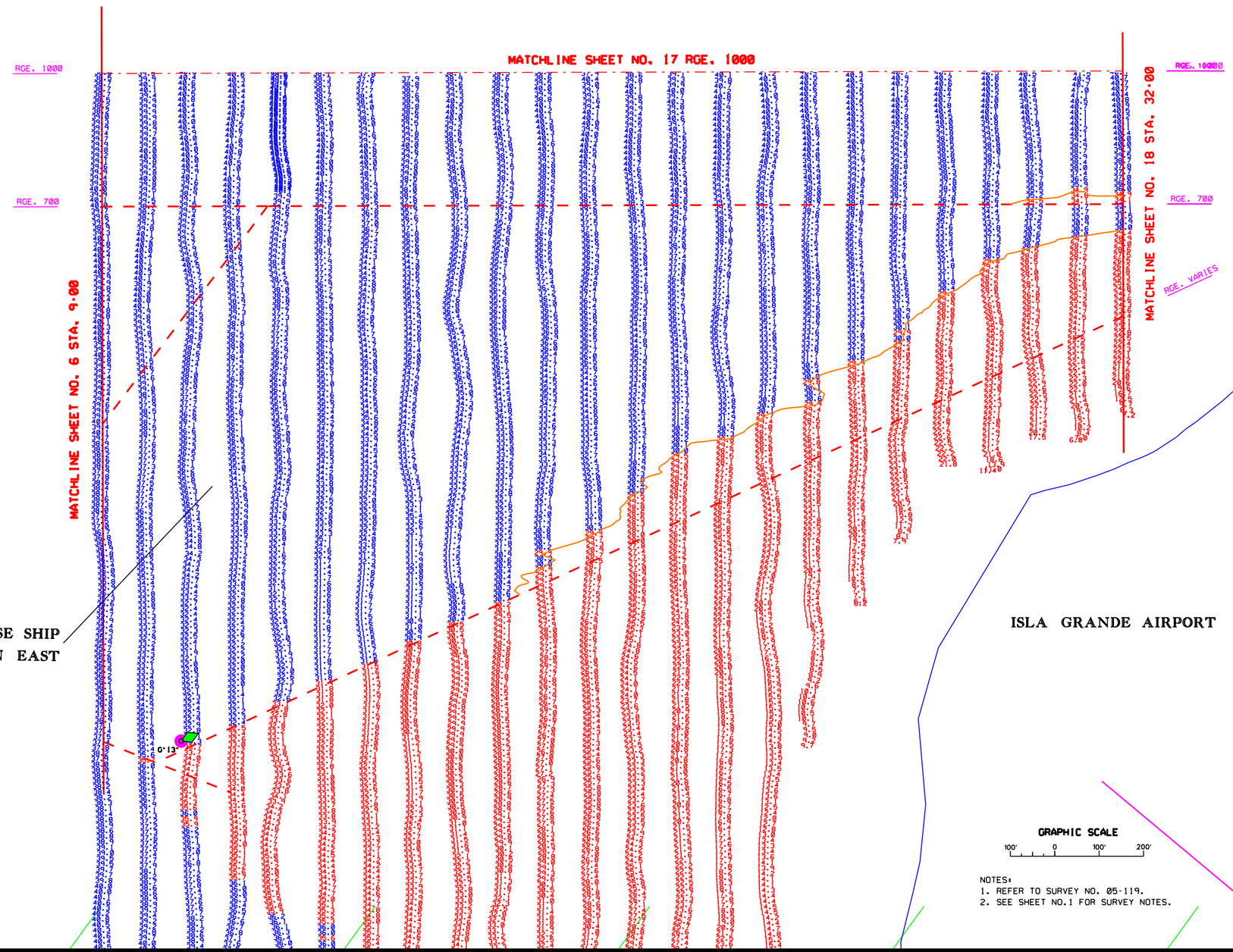
DRAWING NO.
15/19

SHEET 15 OF 19

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-13 (09/05)	611.927	225.921	18°27'18.88"	66°06'37.31"

SAN ANTONIO APPROACH CHANNEL

AZ-233-51-23



NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Date	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: XXX

Designed by: WRN
Drn by: WRN
Chd by: WRN

Dated: SEP 2005
D.O.FILE NO. XXX-XX.XXX

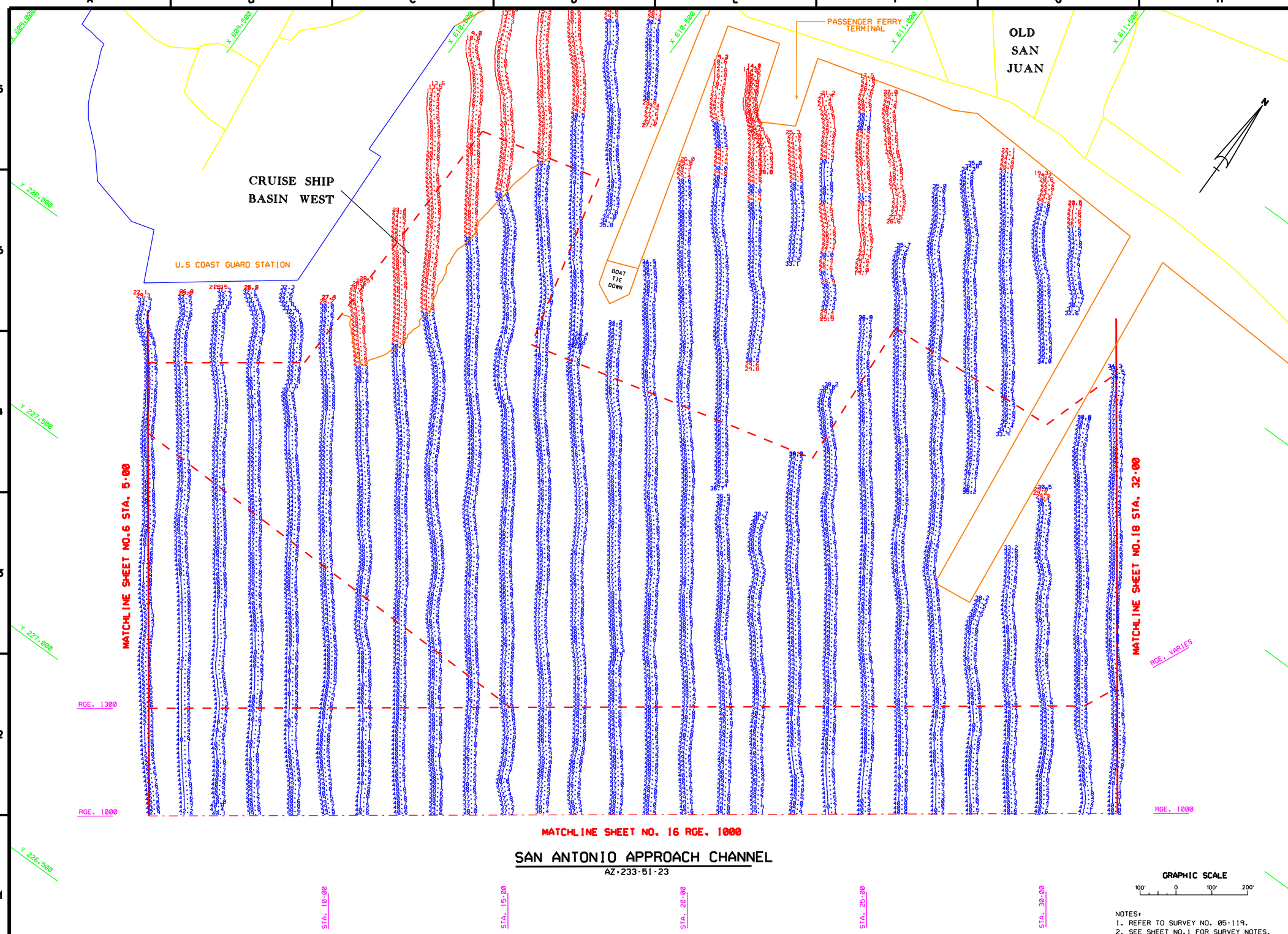
File name: C19SH16.DGN
Reference files: 0R0088.DGN C19SCHAL.DGN C19SPLAN.DGN C19SAAC.DGN C19BMAV.DGN C19BUOY.DGN CON_50.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 9+00 THRU STA. 32+00 SAN ANTONIO
APPROACH CHANNEL
PLAN

DRAWING NO.
16/19

SHEET 16 OF 19



SAN ANTONIO APPROACH CHANNEL

AZ-233-51-23

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 05-119.
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
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

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

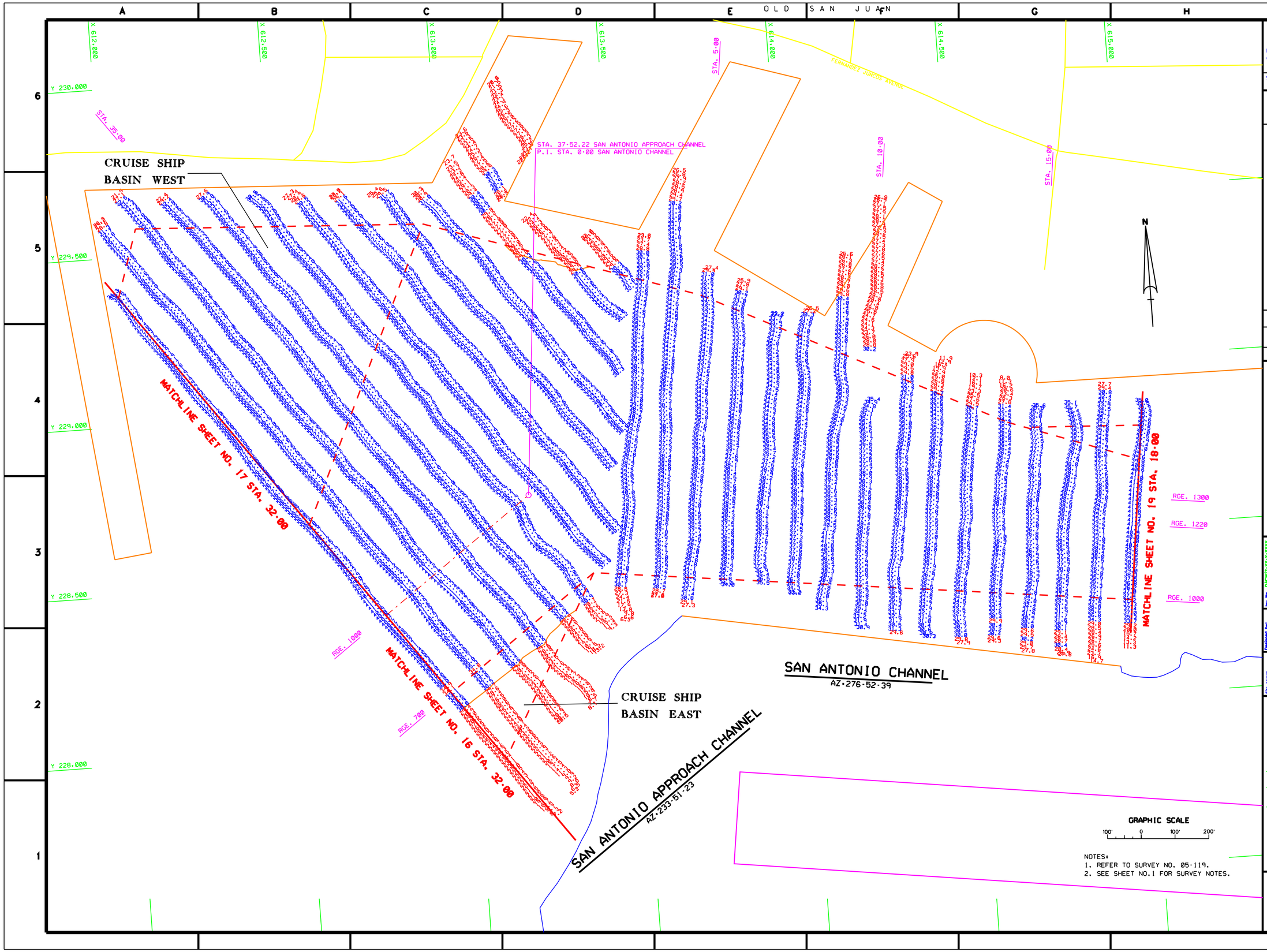
Dated: SEP 2005
D.O.FILE NO. XXX-XX.XXX

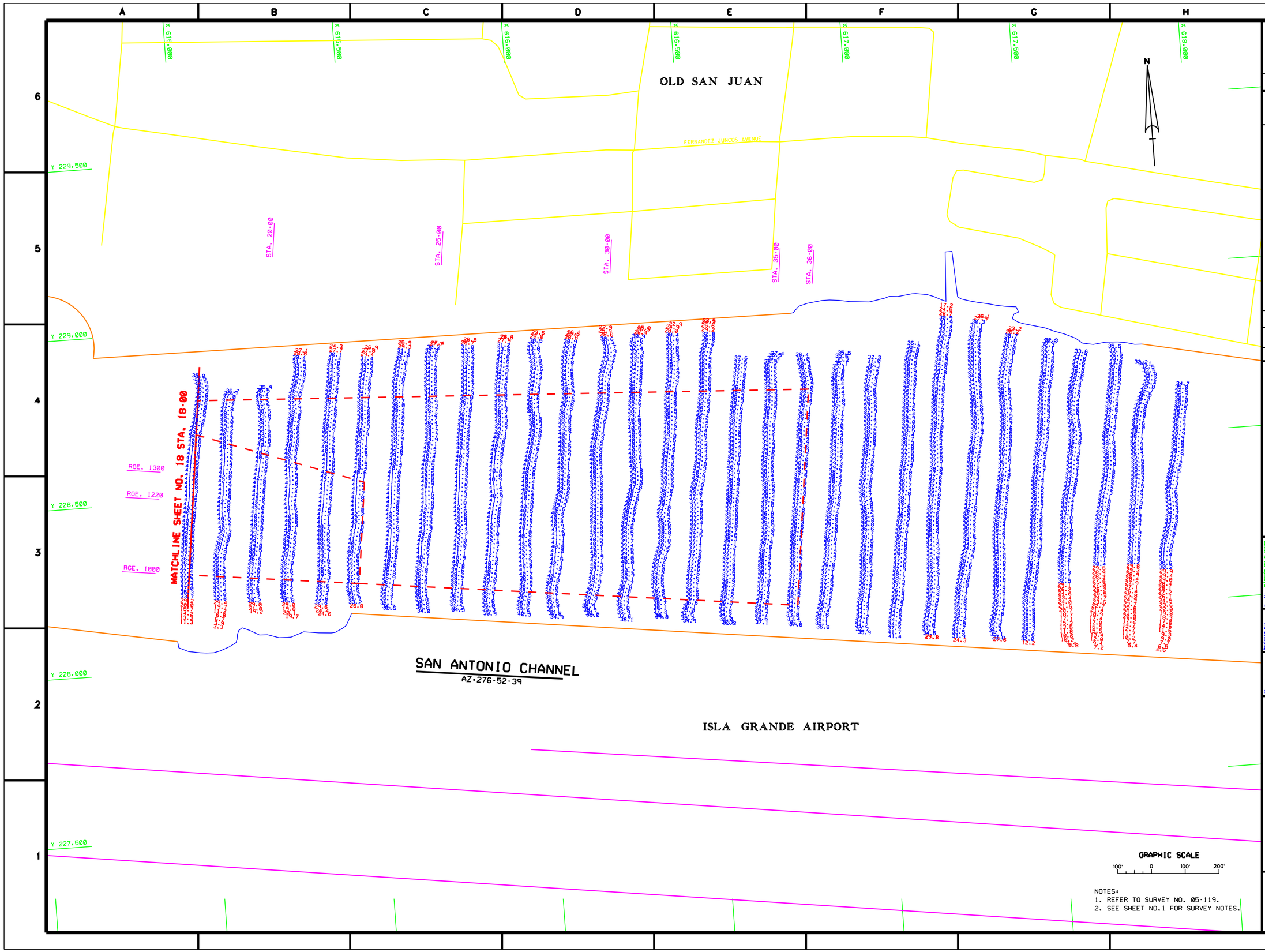
File name: G19SHT7.DGN
Reference files: BRDR98.DGN G19CHAN.DGN G19PLAN.DGN G19SAAC.DGN CON_50.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.5+00 THRU STA.32+00 SAN ANTONIO APPROACH CHANNEL
PLAN

DRAWING NO.
17/19

SHEET 17 OF 19


OLD SAN JUAN
FERNANDEZ JUNCOS AVENUE
STA. 5+00
STA. 10+00
STA. 15+00
STA. 25+00
STA. 37+52.22 SAN ANTONIO APPROACH CHANNEL
P.I. STA. 0+00 SAN ANTONIO CHANNEL
CRUISE SHIP BASIN WEST
CRUISE SHIP BASIN EAST
MATCHLINE SHEET NO. 17 STA. 32+00
MATCHLINE SHEET NO. 16 STA. 32+00
MATCHLINE SHEET NO. 19 STA. 18+00
RGE. 1300
RGE. 1220
RGE. 1000
RGE. 700
SAN ANTONIO CHANNEL
AZ·276·52·39
SAN ANTONIO APPROACH CHANNEL
AZ·233·51·23
GRAPHIC SCALE
100' 0 100' 200'
NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
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
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 32+00 SAN ANTONIO APPROACH CHANNEL
THRU STA. 18+00 SAN ANTONIO CHANNEL
PLAN
D.O.FILE NO. XXX-XX.XXX
DRAWING NO.
18/19
SHEET 18 OF 19



NOTES:
1. REFER TO SURVEY NO. 05-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

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

Date: SEP 2005
D.O. FILE NO. XXX-XX.XXX

File name: G19SH19.DGN
Reference files: BRDR98.DGN G19CHAN.DGN G19PLAN.DGN G19SAC.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 18+00 THRU STA. 36+00 SAN ANTONIO CHANNEL
PLAN

DRAWING NO.
19/19

SHEET 19 OF 19