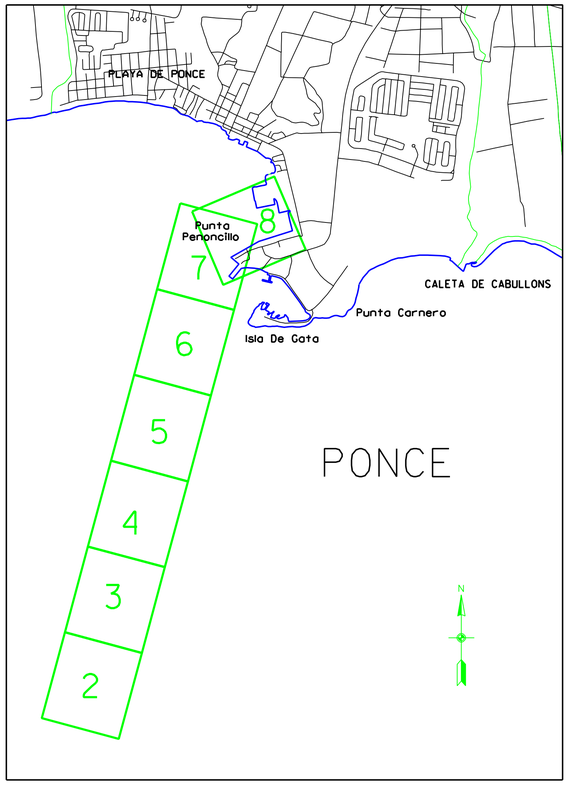
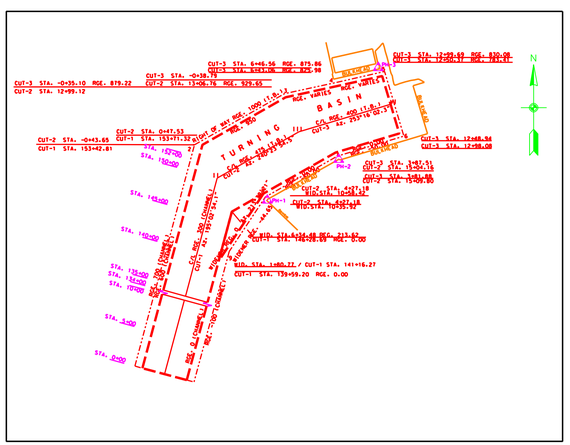
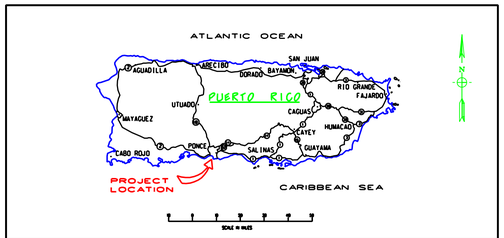


LOCATION PLAN
NOT TO SCALE



CONTROL LOCATION
NOT TO SCALE



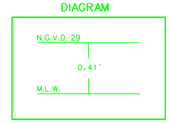
LOCATION MAP

SHEET INDEX :	
COVER SHEET	1
PLAN VIEWS	2-8
CONTROL SHEET	9

HORIZONTAL & VERTICAL CONTROL

MONUMENTS	PLANE COORDINATES (NAD 83 IN FEET) X	Y	ELEV (MLW)	CUT	STATION	RANGE
CARDONA LIGHTHOUSE	586067.75	701016.54	N/A	1	93+98.45	3104.96
PH-1	590886.39	705408.86	N/A	2	4+27.18	-100.02
PH-2	591817.89	705938.12	6.59	3	3+93.15	-99.95
PH-3	592355.51	707126.93	N/A	3	12+50.55	833.63

VERTICAL DATUM DIAGRAM



LEGEND/ABBREVIATIONS

USACOE = U.S. ARMY CORPS OF ENGINEERS
△ = FOUND USACOE GPS MONUMENT
℄ = CENTERLINE
AZ. = AZIMUTH
RGE. = RANGE
STA. = STATION
ELEV. = ELEVATION
MLW = MEAN LOW WATER
WID = WIDENER
T.B. = TURNING BASIN

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

SURVEY NOTES:

1. REFER TO SURVEY NO. 04-034
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER (MLW) WHICH IS 0.41 FEET BELOW NATIONAL GEODETIC VERTICAL DATUM 1929. (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 THE BULKHEAD IN CUT 3, AND REFERENCED FROM BENCHMARK "PH-2" .
5. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS. NORTH ZONE (NAD83).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL
8. REFER TO RAW SURVEY DATA:
   (A) FIELD BOOK NO. 2004 PUERTO RICO 1296
   (B) DEPTH SOUNDER AND ONE (1) ROLL DATED 22-25 APRIL 2004.
9. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM "ISABELA". PUERTO RICO AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING A RESON NAVI-SOUND 210 ECHOSOUNDER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
RENTAL	22-25 APRIL 2004	CUT 1-3

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
12. 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.
13. THIS IS A HYDROGRAPHIC SURVEY PERFORMED BY JOHNSON-McADAMS SURVEYING AND MAPPING, LLC. PLANIMETRICS (I.E. BULKHEAD, ETC.) WERE NOT FIELD LOCATED, BUT RATHER ARE SHOWN ACCORDING TO INFORMATION PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS.

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: XX.XT
Designed by: XXX
Dwn by: XXX
Ckd by: XXX
Dated: XXX XXXX
D.O.F.ILE NO. XXX-XX.XXX

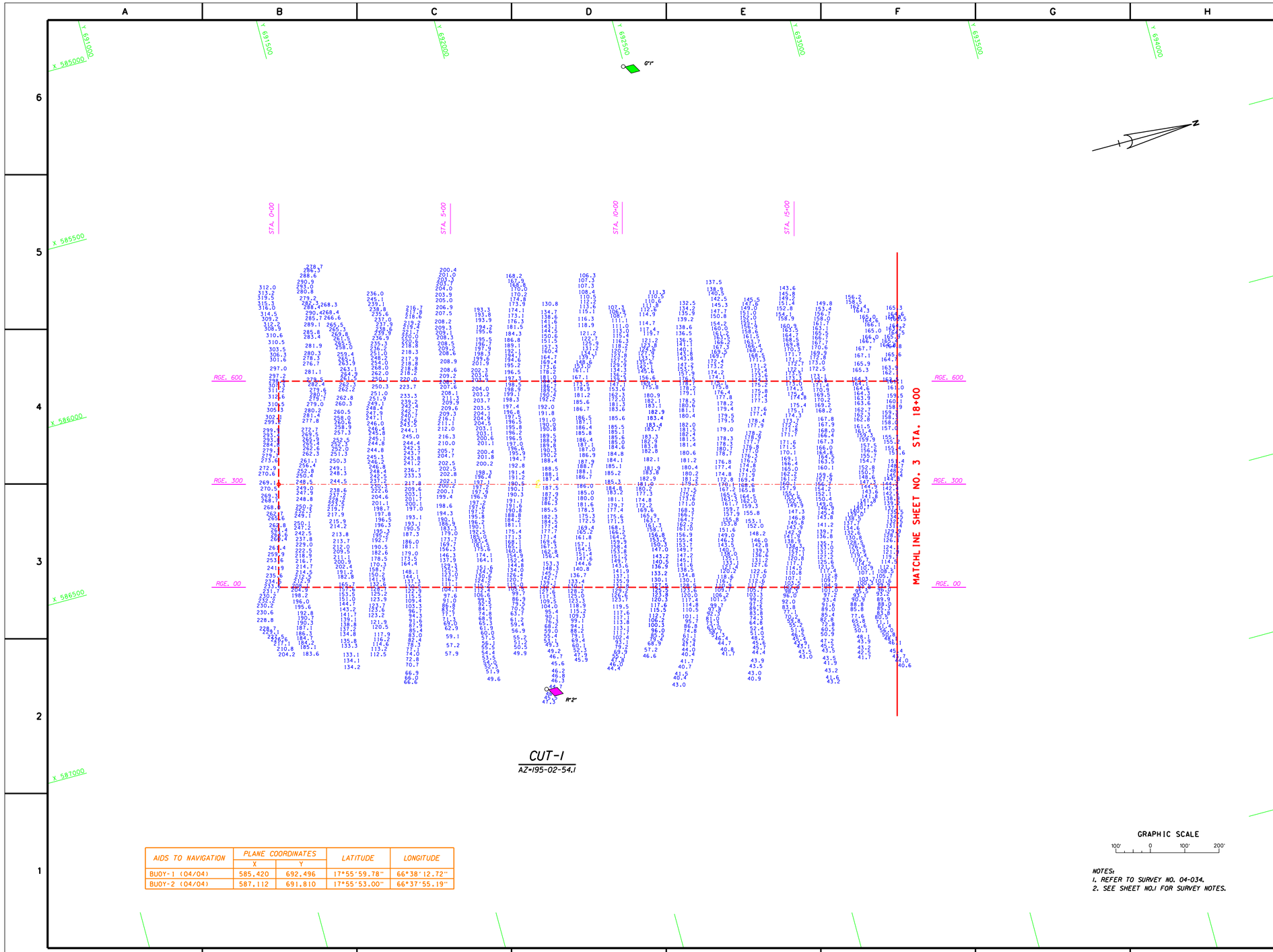
File name: f034shc1.dgn
Reference files: g1009b0.dgn
XXXXXXX.DGN
XXXXXXX.DGN
XXXXXXX.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
CUT-1 THRU CUT-3
COVER SHEET

DRAWING NO.
1/9

SHEET 1 OF 9

.../PONCE_PR/f034pcs/f034sh01.dgn 05/19/2004 11:03:33 AM



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
BUOY-1 (04/04)	585,420	692,496	17°55'59.78"	66°38'12.72"
BUOY-2 (04/04)	587,112	691,810	17°55'53.00"	66°37'55.19"

NOTES:
1. REFER TO SURVEY NO. 04-034.
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

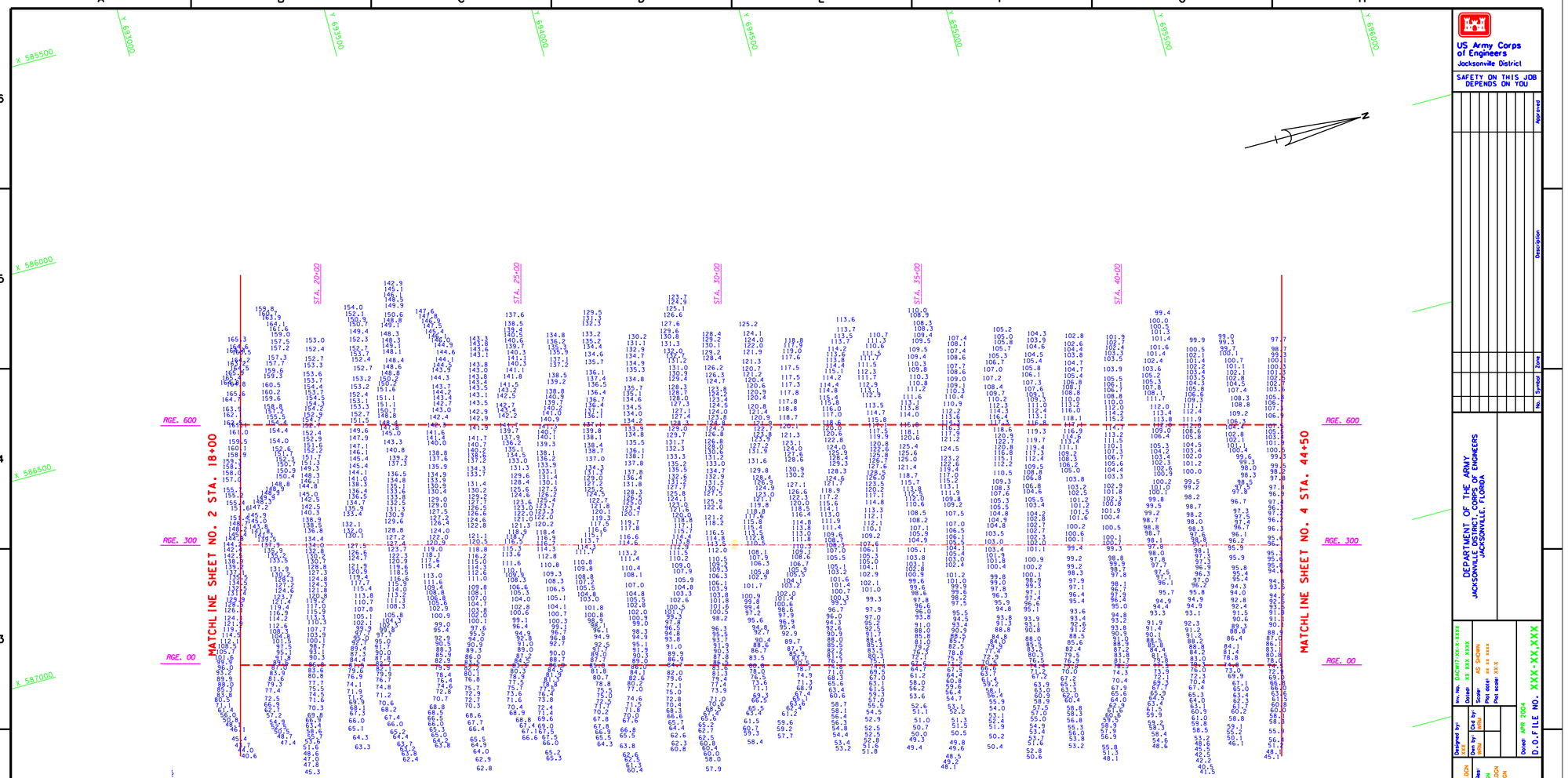
Designed by: XXX
Dwn by: WRM
Ckd by: XXX
Date: APR 2004
D.O.FILE NO. XXX-XX.XXX

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA. 0+00 THRU STA. 18+00 CUT-1
PLAN

DRAWING NO.
2/9

SHEET 2 OF 9

.../PONCE_PR/f034pcs/f034sh02.dgn 05/19/2004 11:03:59 AM



CUT-1

AZ=195-02-54.1

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-034.
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
Pad elev: XX.X XXXX
Pad scale: XX.X

Designed by: Dwn by: Chkd by: Appd by:
Date: APR 2004
D.O.F.FILE NO. XXX-XXX.XXX

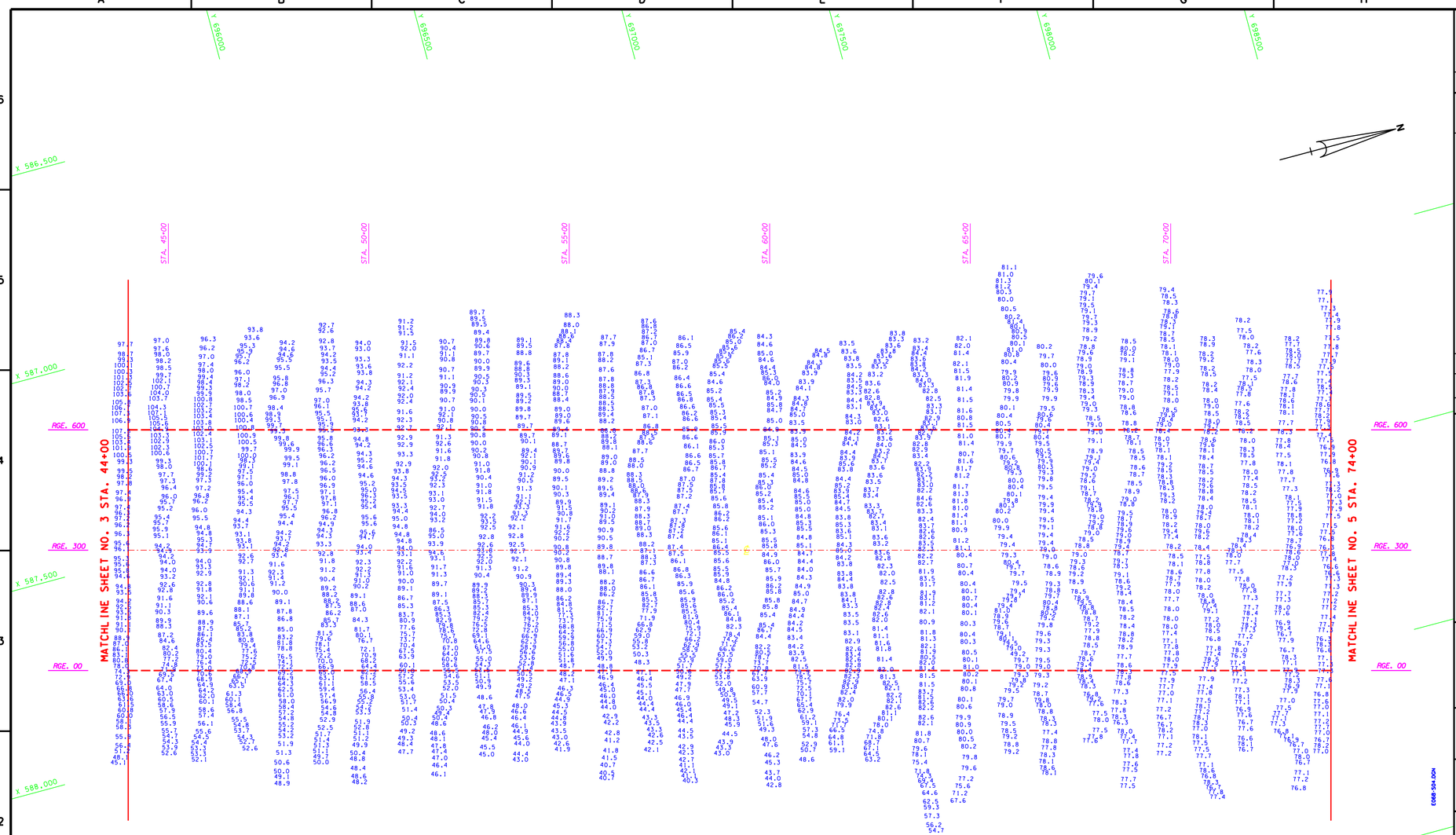
File name: f034pm03.DGN
Reference files: PRO0100.DGN f034ch01.DGN f034c11.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA. 18+00 THRU STA. 44+00 CUT-1
PLAN

DRAWING NO.
3/9

SHEET 3 OF 9

.../PONCE_PR/f034pcs/f034sh03.dgn 05/19/2004 11:04:20 AM



CUT-I

AZ=195-02-54.1

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-034.
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

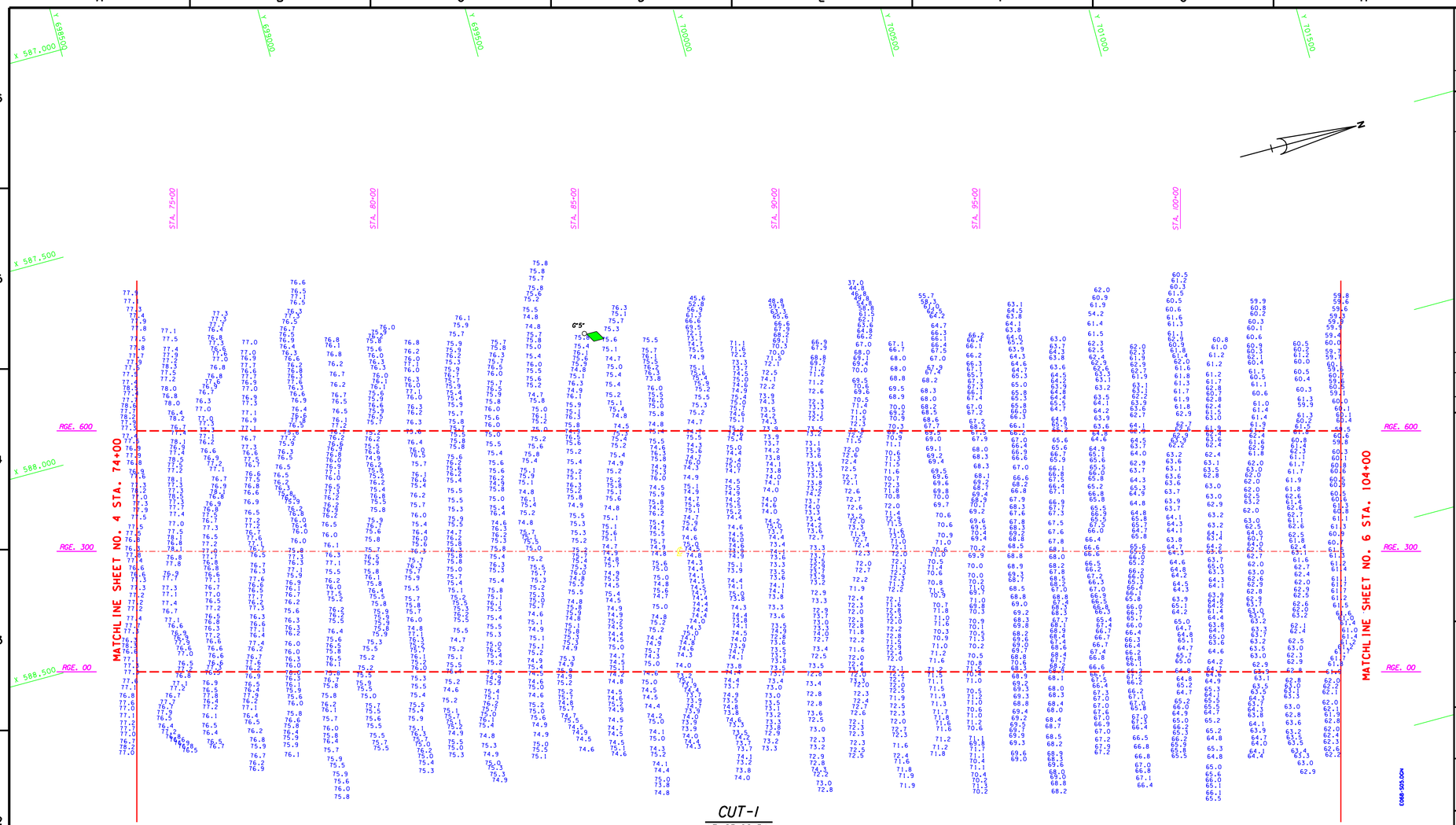
Inv. No. DACW17-XX-X-XXXX
Dwgs. No. XX XXX XXXX
Designed by: MRN
Drawn by: MRN
Chk by: MRN
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Date: APR 2004
D.O.FILE NO. XXX-XX,XXXX
File name: F034SH04.DGN
Reference files: BKGRND.DGN BKGRND2.DGN F034CT1.DGN
EC08-504-DCN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA. 44+00 THRU STA. 74+00 CUT-I
PLAN

DRAWING NO.
4/9

SHEET 4 OF 9

.../PONCE_PR/f034pcs/f034sh04.dgn 05/19/2004 11:04:35 AM



AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
BUOY-5 (04/04)	588,020	699,576	17°57'10.00"	66°37'45.86"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-034.
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

Rev. No. DACW17-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Designed by: WRN
Dwn by: WRN
Ckd by: WRN
Date: MAY 2004
D.O.F.FILE NO. XXXX-XX.XXX

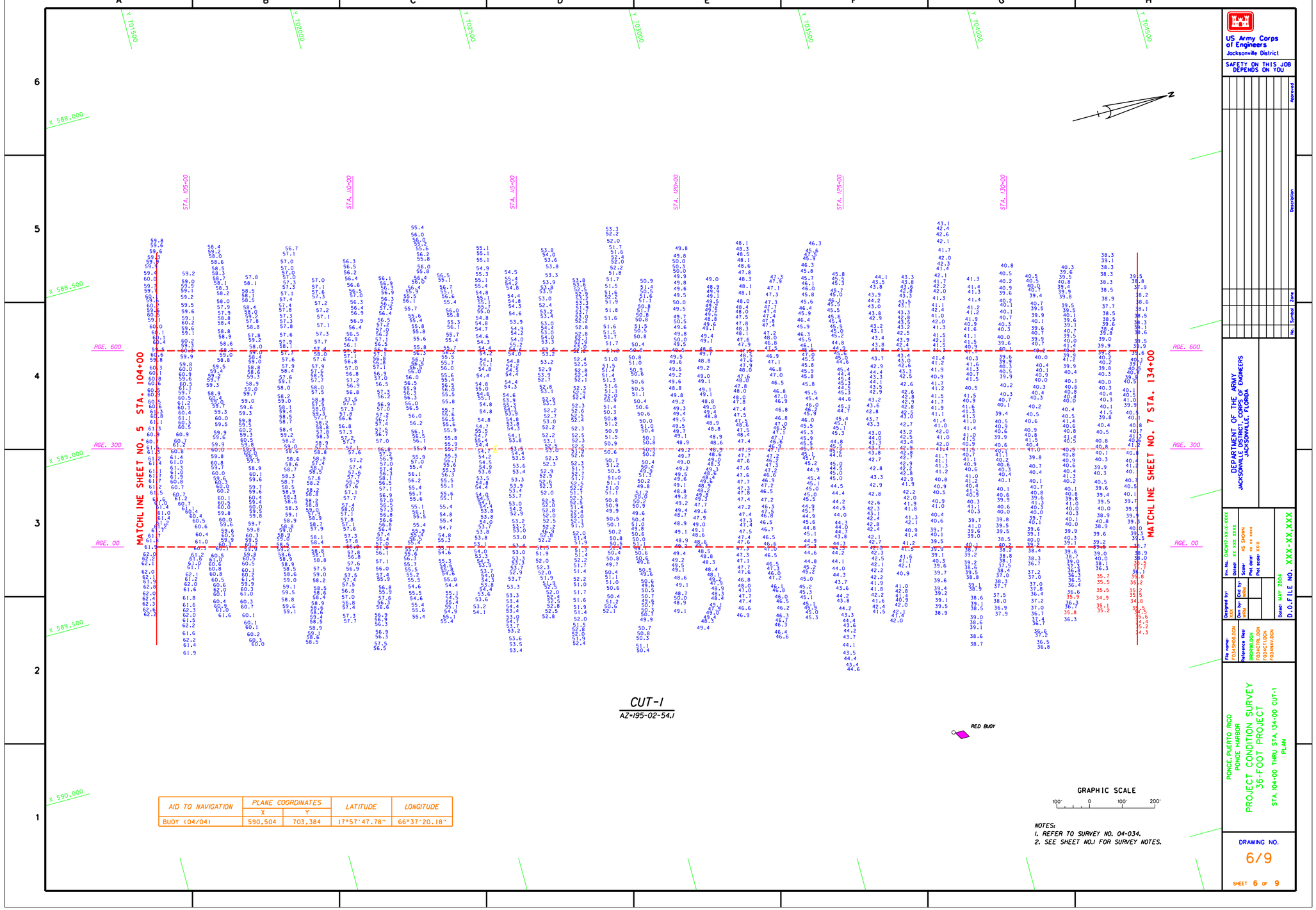
File name: F034SH05.DGN
Reference files: BKGRND.DGN
F034CT1.DGN
F034CT1DGN
F034MAV.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA 74+00 THRU STA. 104+00 CUT-1
PLAN

DRAWING NO.
5/9

SHEET 5 OF 9

.../PONCE_PR/f034pcm/f034sh05.dgn 05/19/2004 11:04:48 AM



AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
BUOY (04/04)	590.504	703.384	17°57'47.78"	66°37'20.18"

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
Pnt size: XX X XXXX
Pnt scale: XX:X

Designed by: KMS
Dwn by: CHU
Ckd by: KMS

Dated: MAY 2004
D.O.F. FILE NO. XXXX-XXX.XXX

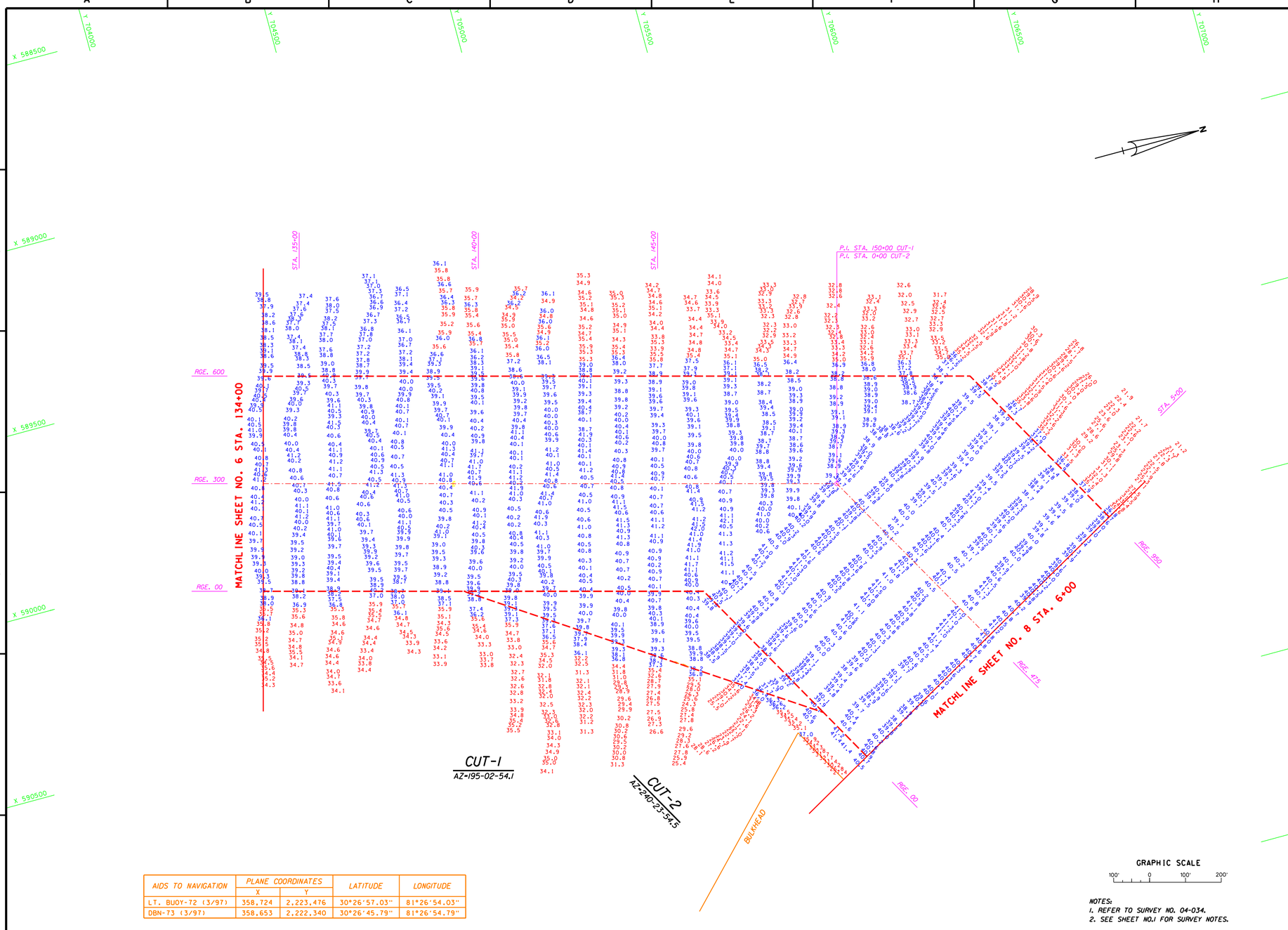
File name: F034SH06.DGN
Reference files: 0500R00.DGN F034CT00.DGN F034CT1DGN F034NAV.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA. 104+00 THRU STA. 134+00 CUT-1
PLAN

DRAWING NO.
6/9

SHEET 6 OF 9

.../PONCE_PR/f034pcs/f034sh06.dgn 05/19/2004 11:05:07 AM



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-72 (3/97)	358,724	2,223,476	30°26'57.03"	81°26'54.03"
DBN-73 (3/97)	358,653	2,222,340	30°26'45.79"	81°26'54.79"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-034.
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
Designed by: AS
Drawn by: WMJ
Chk by: WMJ
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: 0.01
Dated APR 2004
D.O.F.ILE NO. XXX-XX.XXX

File name: F034SH07.DGN
Reference files: F034GR00.DGN F034GR01.DGN F034PL06.DGN F034CT00.DGN F034CT01.DGN F034CR00.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA. 134+00 CUT-1 THRU STA. 6+00 CUT-2
PLAN

DRAWING NO.
7/9

SHEET 7 OF 9

.../PONCE_PR/f034pcs/f034sh07.dgn 05/19/2004 11:05:28 AM

NOTES:
1. REFER TO SURVEY NO. 04-034.
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: XXX
Dwn by: WRM
Ckd by: WRM
Date: APR 2004
D.O.FILE NO. XXX-XX,XXX

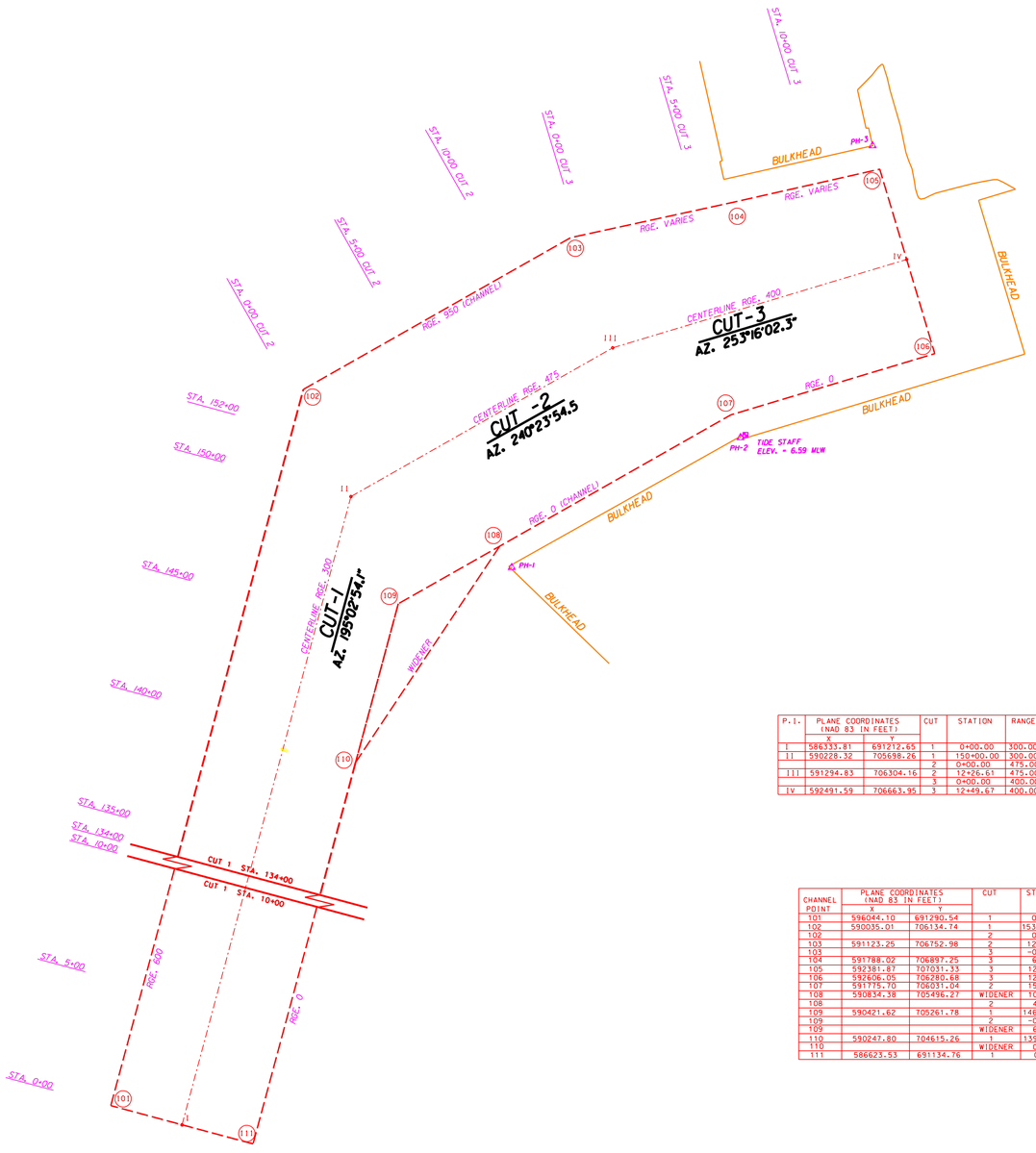
File name: F034SH08.DGN
Reference files: BRDR98.DGN F034CTRL.DGN F034PLAN.DGN F034CT2.DGN F034CT3.DGN F034CON.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
STA. 6+00 CUT-2 THRU STA. 12+49.66 CUT-3
PLAN

DRAWING NO.
8/9

SHEET 8 OF 9

.../PONCE_PR/f034pcs/f034sh08.dgn 05/19/2004 11:05:51 AM



LEGEND/ABBREVIATIONS

USACOE = U.S. ARMY CORPS OF ENGINEERS
= TIDE STAFF
= FOUND USACOE GPS MONUMENT
℄ = CENTERLINE
AZ. = AZIMUTH
RGE. = RANGE
STA. = STATION
ELEV. = ELEVATION
MLW = MEAN LOW WATER

HORIZONTAL & VERTICAL CONTROL

MONUMENTS	PLANE COORDINATES (NAD 83 IN FEET) X	Y	ELEV (MLW)	CUT	STATION	RANGE
PH-1	590886.39	705408.86	N/A	2	4+27.18	-100.02
PH-2	591817.89	705938.12	N/A	3	3+93.15	-99.95
PH-3	592355.51	707126.93	6.59	3	12+50.55	833.63

P.I.	PLANE COORDINATES (NAD 83 IN FEET) X	Y	CUT	STATION	RANGE	AZIMUTH	DISTANCE
I	586333.81	691212.65	1	0+00.00	300.00	195-02-54	15000.00
II	590228.32	705698.26	1	150+00.00	300.00		
			2	0+00.00	475.00	240-23-54	1226.60
III	591294.83	706304.16	2	12+26.61	475.00		
			3	0+00.00	400.00	253-16-02	1249.67
IV	592491.59	706663.95	3	12+49.67	400.00		

CHANNEL POINT	PLANE COORDINATES (NAD 83 IN FEET) X	Y	CUT	STATION	RANGE
101	596044.10	691290.54	1	0+00.00	600.00
102	590035.01	706134.74	1	153+71.33	600.00
102			2	0+47.43	950.00
103	591123.25	706752.98	2	12+99.12	950.00
103			3	-0+35.10	879.22
104	591788.02	706897.25	3	6+43.06	825.98
105	592381.87	707031.33	3	12+50.37	783.41
106	592606.05	706280.68	3	12+48.94	00.00
107	591775.70	706031.04	2	15+09.80	00.00
108	590834.38	705496.27	WIDENER	10+58.42	00.00
108			2	4+27.18	00.00
109	590421.62	705261.78	1	146+28.68	00.00
109			2	-0+47.53	00.00
109			WIDENER	6+34.48	213.62
110	590247.80	704615.26	1	139+59.20	00.00
110			WIDENER	0+00.00	00.00
111	586623.53	691134.76	1	0+00.00	00.00

N

GRAPHIC SCALE
200' 0 200' 400'

NOTES:
1. REFER TO SURVEY NO. 04-034.
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:1
Designed by: MRW
Cht by: MRW
Dwn by: MRW
Dated: APR 2004
D.O.FILE NO. XXX-XX.XXX
File name: F034SH09.DGN
Reference files: BKGRND.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36-FOOT PROJECT
CONTROL
PLAN

DRAWING NO.
9/9

SHEET 9 OF 9

.../PONCE_PR/f034pcs/f034sh09.dgn 05/19/2004 11:06:06 AM