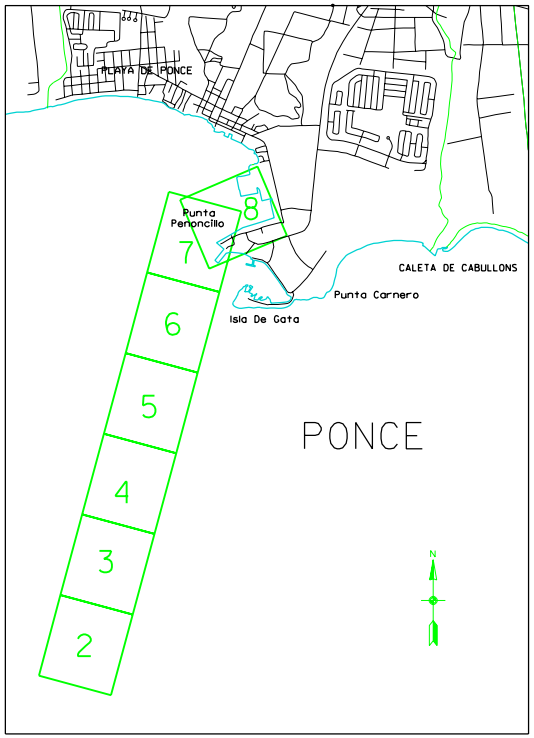

LOCATION PLAN

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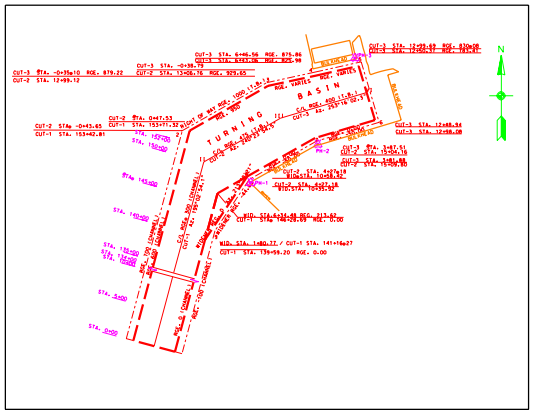
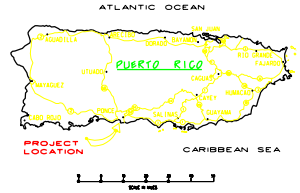


SECTIONS LOCATION



LOCATION MAP

LEGEND/ABBREVIATIONS

- = HORIZONTAL & VERTICAL CONTROL POINT BY GPS
- = HORIZONTAL & VERTICAL CONTROL POINT
- = HORIZONTAL CONTROL POINT
- INV. = INVERT
- AZ. = AZIMUTH
- RGE. = RANGE
- STA. = STATION
- ℄ = CENTERLINE
- N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM 1929
- NAD83 = NORTH AMERICAN DATUM 1983
- = RED LIGHTED BUOY
- = RED BUOY
- = TIDE STAFF
- = CHANNEL LIMITS

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

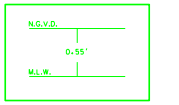
HORIZONTAL & VERTICAL CONTROL

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-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

NAVIGATIONAL AIDS LOCATIONS

NAVIGATIONAL AIDS	PLANE COORDINATES (NAD 83 - FEET) X	Y
GREEN CAN - 1 (04/2002)	585422.53	692466.89
RED CAN - 2 (04/2002)	587106.93	691807.12
RED CAN - 4 (04/2002)	588295.17	696197.41
GREEN CAN - 5 (04/2002)	587966.97	699785.91
RED CAN - 6 (04/2002)	590505.29	703363.83
GREEN CAN - 7 (04/2002)	590735.80	706616.89

VERTICAL DATUM DIAGRAM



SURVEYOR'S CERTIFICATE

THE UNDERSIGNED, REGISTERED SURVEYOR LICENCE NO. 7537 AUTHORIZED TO EXERCISE HIS PROFESSION IN PUERTO RICO DOES HEREBY CERTIFY THAT THE ABOVE DISTANCES AND THE PLAT HEREON DRAWN IS A TRUE REPRESENTATION OF THE EXISTING CONDITION AT THE TIME OF THE SURVEY.

RENAN LOPEZ DE AZUA

NOTES:

1. REFER TO SURVEY NO. 02-060.
2. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS. NORTH ZONE (NAD 83).
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 .41 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 APRIL 2002.
   REFER TO RAW FIELD DATA:
   DEPTH SOUNDER [FATHOMETER] GRAPH PAPER ROLL. DATED 4/23/2002 AND 4/24/2002.
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: PH-2
   LOCATION OF TIDE STAFF: TS # 1 PH-2 AREA
   BENCH MARK: PH-2
   VESSEL: RLDA BOTTOM MAPPER 1
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 INDICATED GENERAL CONDITIONS EXISTING AT THAT TIME.

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO
WWW.RLDA.COM

Inv. No. DACW17-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: 05-01/02
Plot scale: AS SHOWN
Designed by:
Dwn by:
Chk by:
Date: MAY 2002
D.O.FILE NO. 103-38,308

File name: d060s01.dgn
Reference files: d060s80.dgn, d060s90.dgn, d060s92.dgn, d060s93.dgn, d060s94.dgn

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

COVER SHEET

DRAWING NO.

SHEET 1 OF 9

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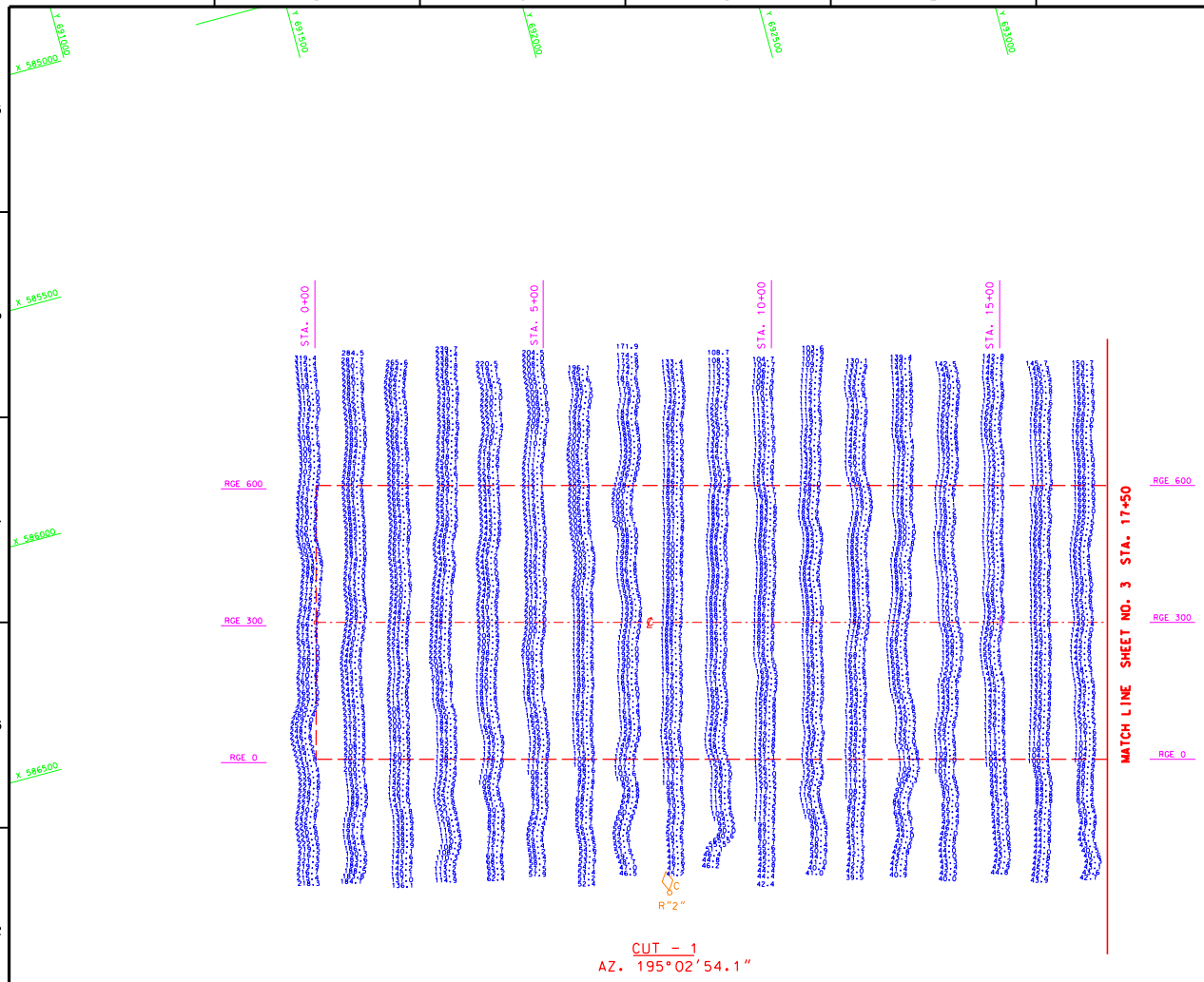

NAVIGATIONAL AIDS	PLANE COORDINATES (NAD 83 - FEET)	
	X	Y
RED CAN - 2 (04/2002)	587106.93	691807.12

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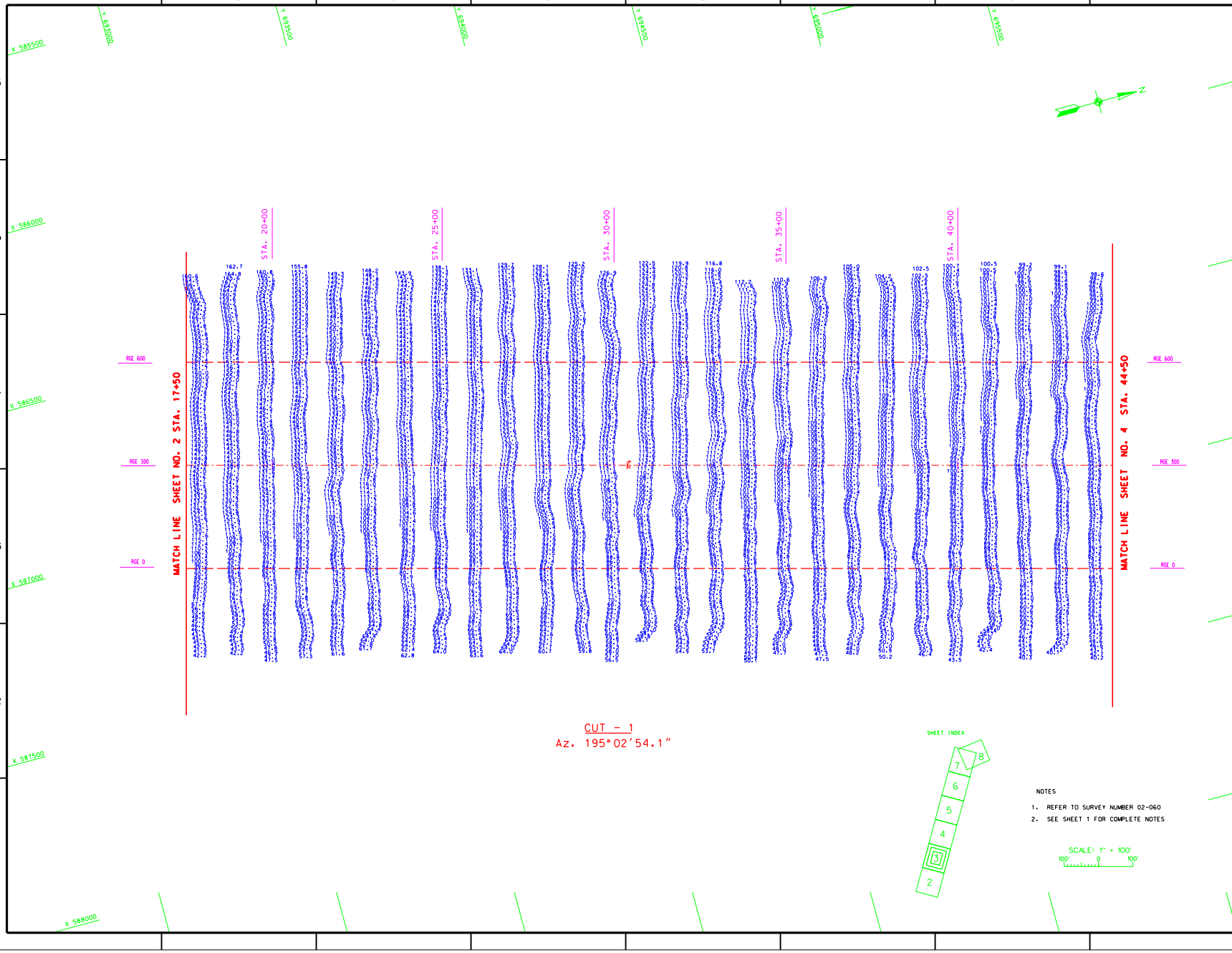

NOTES

1. REFER TO SURVEY NUMBER 02-060
2. SEE SHEET 1 FOR COMPLETE NOTES

SCALE: 1" = 100'

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO
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Designed by:
Dwn by: MASR
Ckd by: JOEM
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: 05/01/02
Plot scale: AS SHOWN
Dated: MAY 2002
D.O.FILE NO. 103-38,308

File name:
Reference files: D060BRD.DGN D060SKD.DGN D060GEO.DGN D060TIM.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36 - FOOT PROJECT
CUT-1, STA. 17+50 TO STA. 44+50
PLAN VIEW

DRAWING NO.

SHEET 3 OF 9

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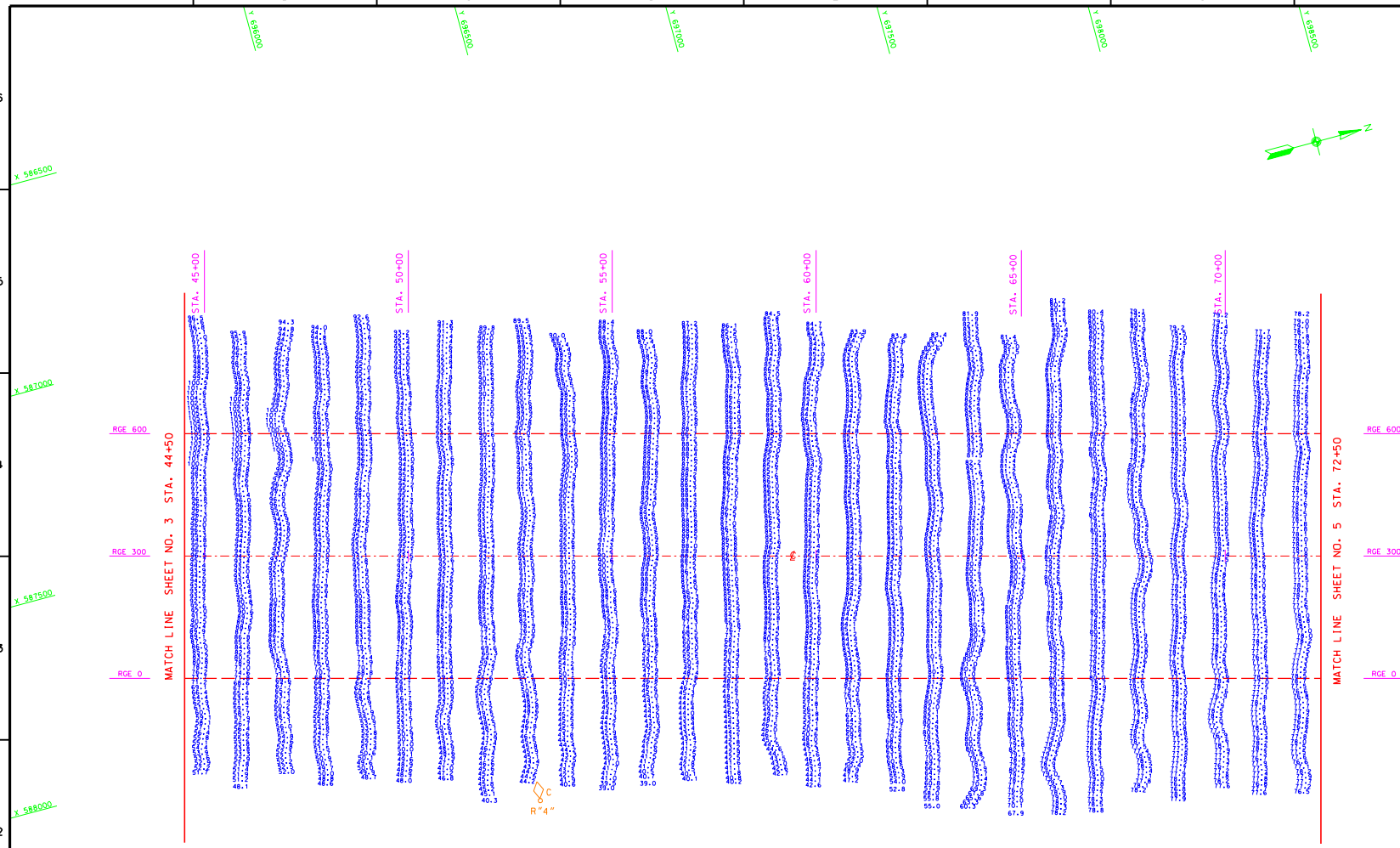
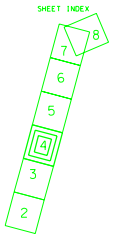


CUT - 1

AZ. 195°02'54.1"

NAVIGATIONAL AIDS	PLANE COORDINATES (NAD 83 - FEET)	
	X	Y
RED CAN - 4 (04/2002)	588295.17	696197.41

SHEET INDEX



SCALE: 1" = 100'

100' 0 100'

NOTES

1. REFER TO SURVEY NUMBER 02-060
2. SEE SHEET 1 FOR COMPLETE NOTES

US Army Corps of Engineers
Jacksonville District

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WWW.RLDA.COM

File name: D060180.DGN, D060580.DGN, D060580.DGN, D060580.DGN, D060714.DGN

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Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: 05/01/02
Plot scale: AS SHOWN

Dated: MAY 2002
D.O.FILE NO. 103-38,308

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

CUT-1, STA. 44+50 TO STA. 72+50
PLAN VIEW

DRAWING NO.

SHEET 4 OF 9

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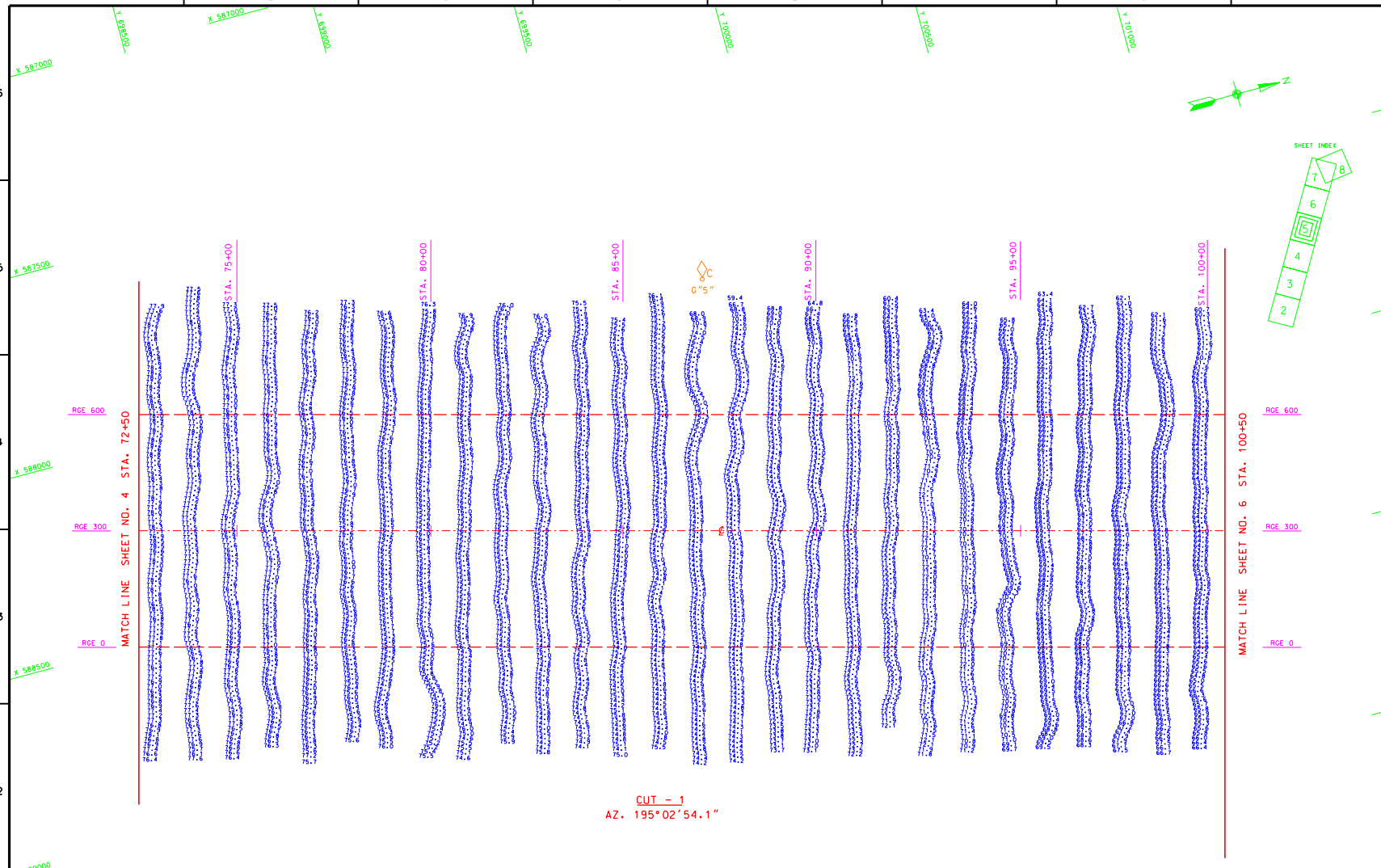

NAVIGATIONAL AIDS	PLANE COORDINATES (NAD 83 - FEET)	
	X	Y
GREEN CAN - 5 (04/2002)	587966.97	699785.91

SCALE: 1" = 100'

NOTES

1. REFER TO SURVEY NUMBER 02-060
2. SEE SHEET 1 FOR COMPLETE NOTES

US Army Corps of Engineers
Jacksonville District

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DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

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SAN JUAN, PUERTO RICO
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Designed by:
Dwn by: MASR
Ckd by: JOEM
Dwn No. DACW17-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: 05/01/02
Plot scale: AS SHOWN
Date: MAY 2002
D.O.FILE NO. 103-38,308

File name:
Reference files: D060B90.DGN D060S90.DGN D060GEO.DGN D060DTM.DGN

PONCE, PUERTO RICO
PONCE HARBOR
PROJECT CONDITION SURVEY
36 - FOOT PROJECT
CUT-1, STA. 72+50 TO STA. 100+50
PLAN VIEW

DRAWING NO.

SHEET 5 OF 9

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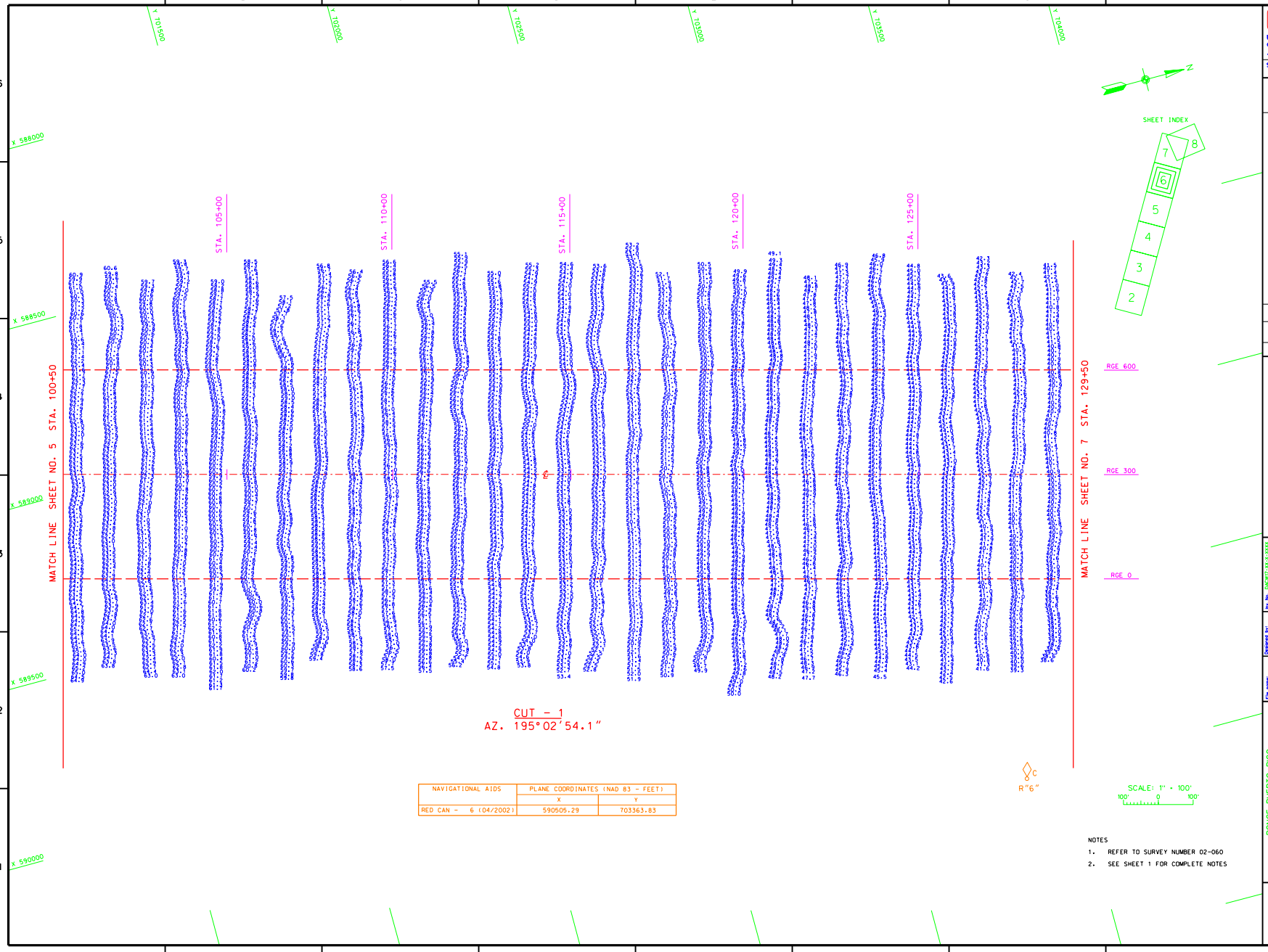

NAVIGATIONAL AIDS	PLANE COORDINATES (NAD 83 - FEET)	
	X	Y
RED CAN - 6 (04/2002)	590505.29	703363.83

NOTES

1. REFER TO SURVEY NUMBER 02-060
2. SEE SHEET 1 FOR COMPLETE NOTES

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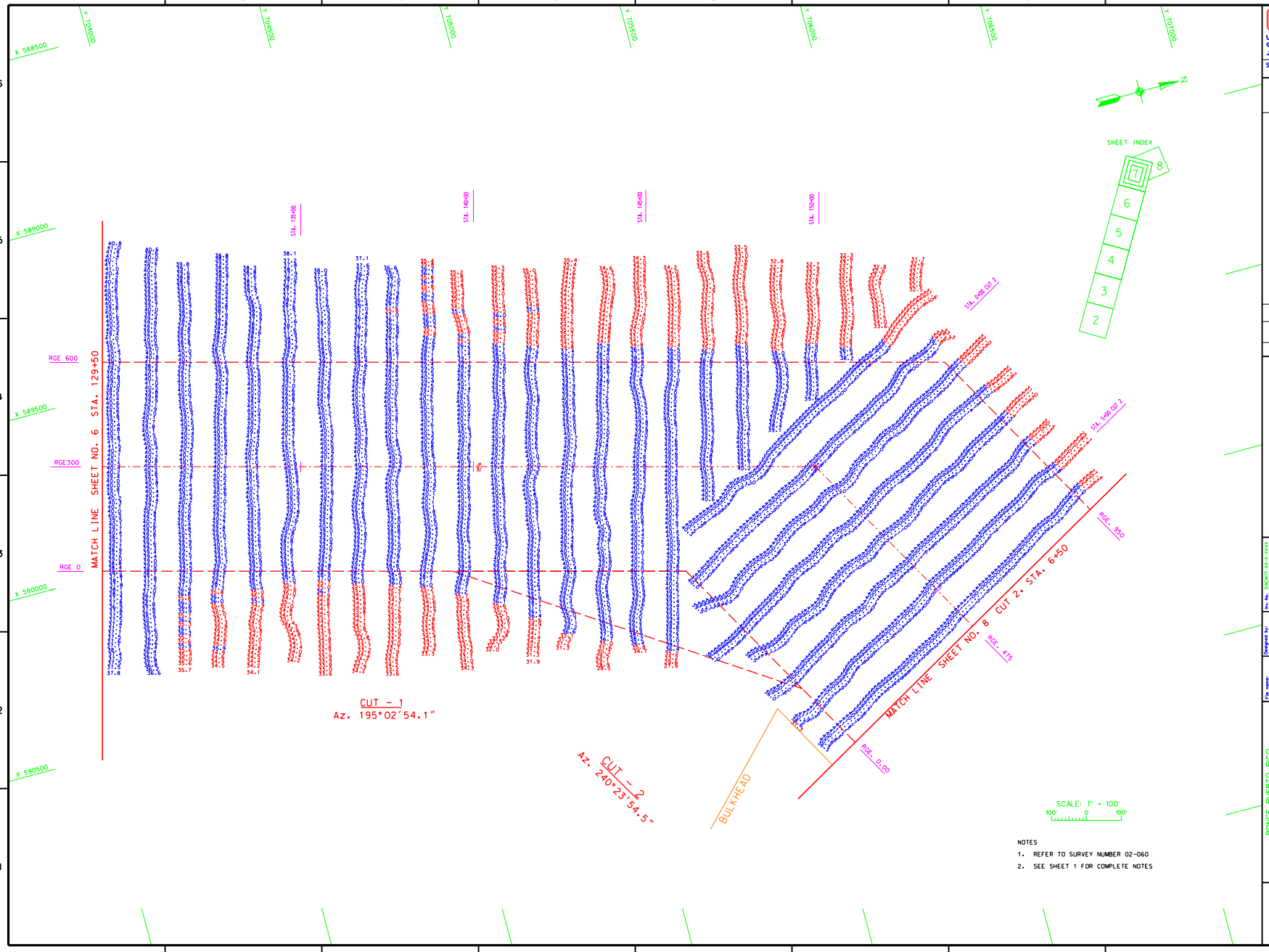

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NAVIGATIONAL AIDS	PLANE COORDINATES (NAD 83 - FEET)	
	X	Y
GREEN CAN - 7 (04/2002)	590735.80	706616.89

NOTES

1. REFER TO SURVEY NUMBER 02-060
2. SEE SHEET 1 FOR COMPLETE NOTES

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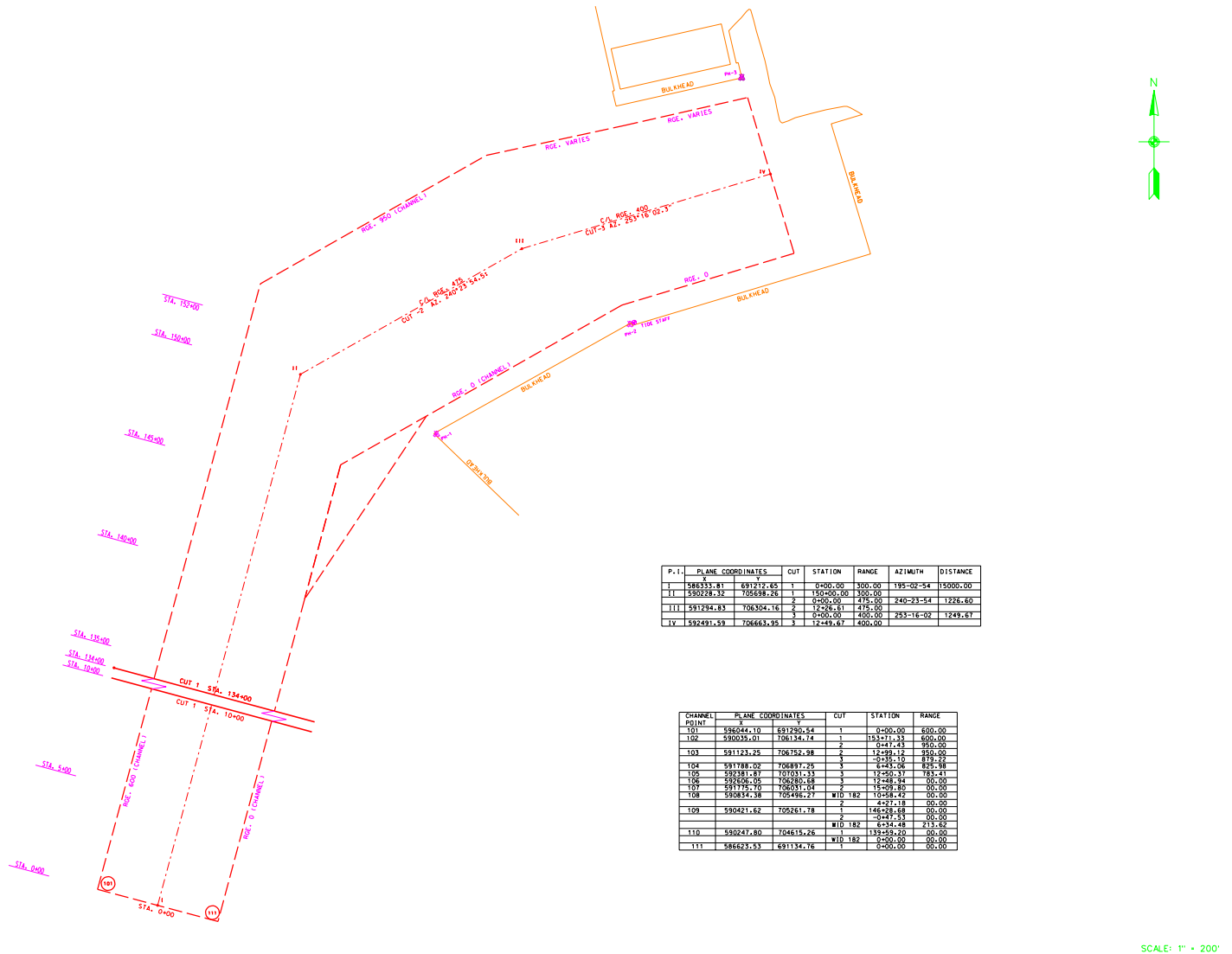

P.I.	PLANE COORDINATES X	Y	CUT	STATION	RANGE	AZIMUTH	DISTANCE
I	586333.81	691212.65	1	0+00.00	300.00	195-02-54	15000.00
II	590228.32	705698.26	1	150+00.00	300.00		
			2	0+00.00	475.00	240-23-54	1226.60
III	591294.83	706304.16	2	12+26.61	475.00		
			3	0+00.00	400.00	253-16-02	1249.67
IV	592491.59	706663.95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

CHANNEL POINT	PLANE COORDINATES 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
			2	0+47.43	950.00
103	591123.25	706752.98	2	12+99.12	950.00
			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	591715.70	706031.04	2	15+09.80	00.00
108	590834.38	705496.27	WID 182	10+58.42	00.00
			2	4+27.18	00.00
109	590421.62	705261.78	1	146+28.68	00.00
			2	-0+47.53	00.00
			WID 182	6+34.48	213.62
110	590247.80	704615.26	1	139+59.20	00.00
			WID 182	0+00.00	00.00
111	586623.53	691134.76	1	0+00.00	00.00

US Army Corps of Engineers
Jacksonville District

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JACKSONVILLE, FLORIDA

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO
WWW.RLDA.COM

Designed by:
Dwn by: MASR
Ckd by: JOEM
Dwn by: DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: 05/01/02
Plot scale: AS SHOWN
Dated: MAY 2002
D.O.FILE NO.

File name:
Reference files: D060BRO.DGN D060GEO.DGN

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

CONTROL SHEET

DRAWING NO.

SHEET 9 OF 9

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