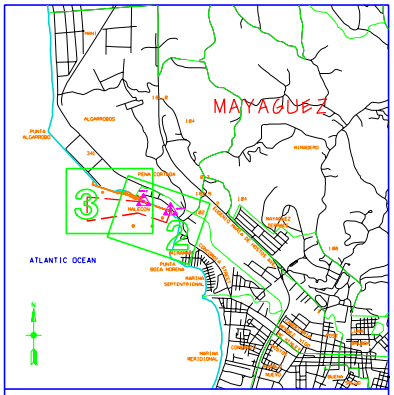
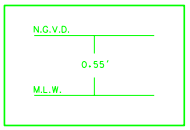
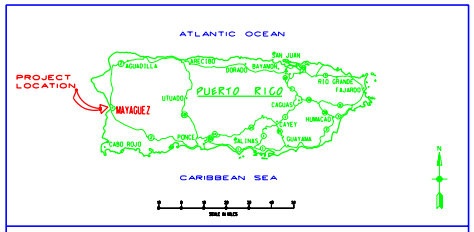


VICINITY MAP
NOT TO SCALE

VERTICAL DATUM DIAGRAM





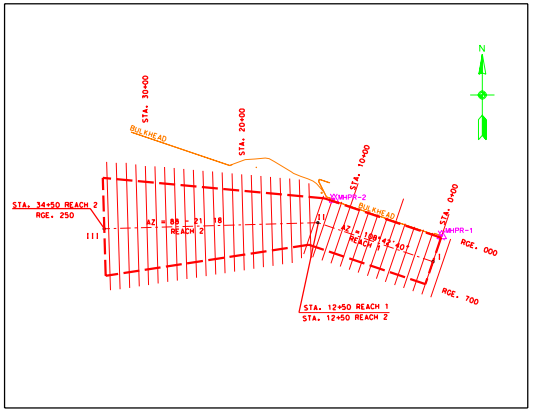
LOCATION MAP

HORIZONTAL & VERTICAL CONTROL

MONUMENTS	PLANE COORDINATES (NAD 83 FEET) X	Y	FEET NGVD 29
MHPR - 1	404348.78	796247.28	6.16
MHPR - 2	403224.72	796627.98	N/A

NOTES:

1. REFER TO SURVEY NO. 02-061.
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 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 APRIL 8 TO APRIL 12. 2002.
   REFER TO RAW FIELD DATA:
   DEPTH SOUNDER [FATHOMETER] GRAPH PAPER ROLL. DATED 4/9/2002
8. EQUIPMENT & HYDRO SURVEY INFORMATION:
   POSITIONING: DGPS ASHTECH RELIANCE
   SOUNDER: ECHOTRAC OF 3200 MK II. HIGH FREQUENCY
   REFERENCE STATION: U.S. COAST GUARD NAV BEACON - ISABELA. PUERTO RICO
   DGPS CALIBRATION STATION: MHPR-1
   LOCATION OF TIDE STAFT: TS # 1 MHPR-1 AREA
   BENCH MARK: MHPR-1
   VESSEL: RLDA RUDA
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.
11. REFER TO FIELD BOOK NO. 2002-PR-1250



SECTIONS LOCATION

SHEET INDEX :	
COVER SHEET	1
PLAN VIEW	2 - 3
CONTROL SHEET	4

LEGEND/ABBREVIATIONS

USACOE = U.S. ARMY CORPS OF ENGINEERS
= FOUND USACOE GPS MONUMENT
INV. = INVERT
AZ. = AZIMUTH
RGE. = RANGE
STA. = STATION
ELEV. = ELEVATION
MLW = MEAN LOW WATER
℄ = CENTERLINE
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM 1929
NAD83 = NORTH AMERICAN DATUM 1983
= RED LIGHTED BUOY
= RED BUOY
= TIDE STAFF
= CHANNEL LIMITS

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 THAT THE PLAT HEREON DRAWN IS A TRUE REPRESENTATION OF THE EXISTING CONDITION.

RENAN LOPEZ DE AZUA

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

Designed by: | Drawn by: | Checked by: | Date: | Scale: AS SHOWN | Plot date: MAY 10, 2002 | Plot scale: 100.00 | Dated: MARCH 2002 | D.O.FILE NO. 104-38.299

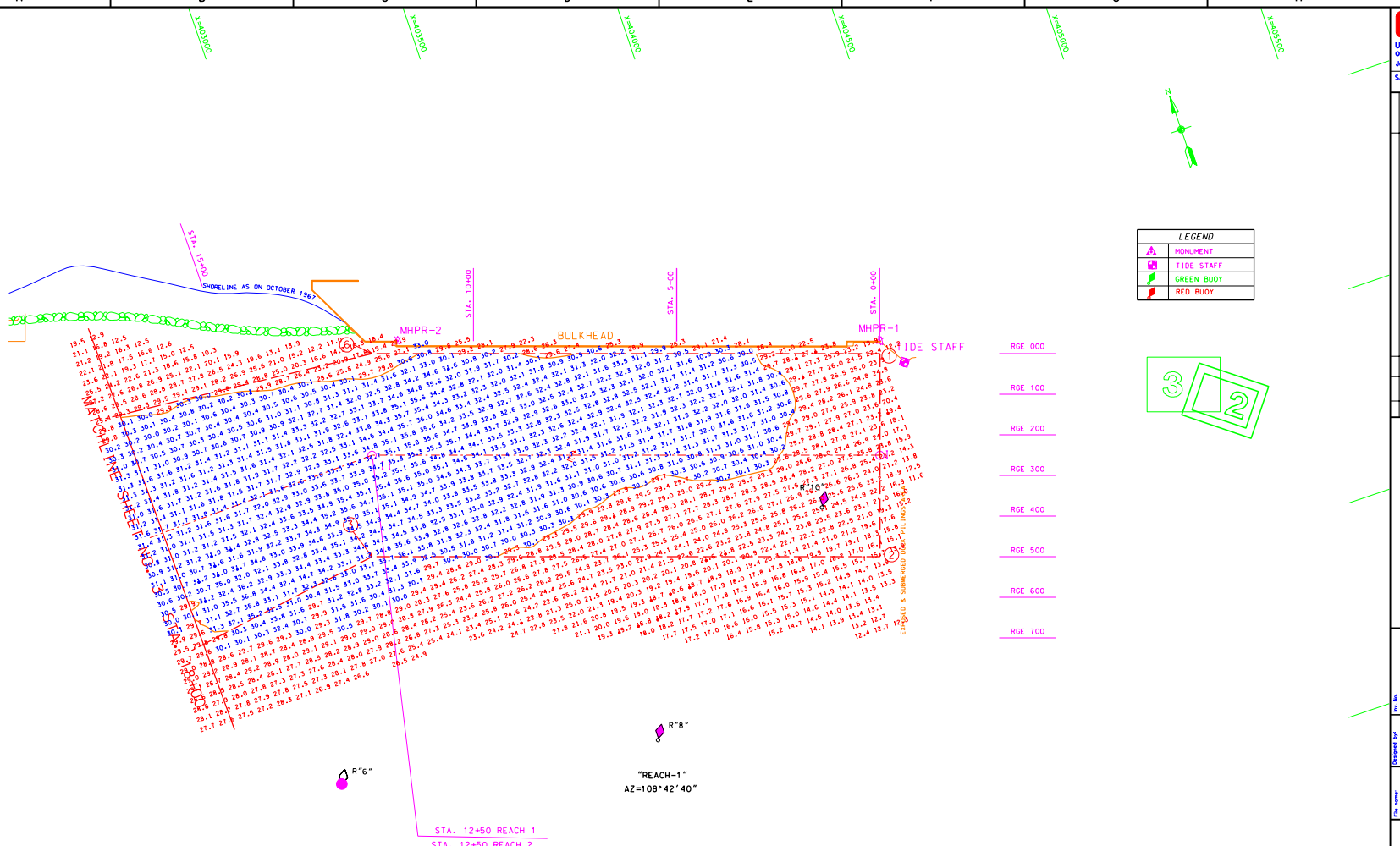
File name: 02061COV | Reference files: 02061BOR

MAYAGUEZ HARBOR
MAYAGUEZ, PUERTO RICO
PROJECT CONDITION SURVEY
30-FOOT PROJECT
COVER SHEET

DRAWING NO.

SHEET 1 OF 4

...\02-061\DGN\d061s01.dgn 05/15/02 01:10:57 PM



LEGEND	
	MONUMENT
	TIDE STAFF
	GREEN BUOY
	RED BUOY

NOTES:
1. REFER TO SURVEY NO. 02-061.
2. SEE SHEET NUMBER ONE (1) FOR NOTES.

GRAPHIC SCALE
100' 0 100' 200'

NAVIGATIONAL AIDS LOCATIONS

NAVIGATIONAL AIDS		PLANE COORDINATES (NAD 83 - FEET) X	Y	LATITUDE	LONGITUDE
RED BUOY - 6	03/2002	402744.40	795639.28	18° 12' 57.71"	67° 09' 48.95"
RED BUOY - 8	03/2002	403516.66	795492.35	18° 12' 56.28"	67° 09' 40.93"
RED BUOY - 10	03/2002	404082.69	795905.52	18° 13' 00.40"	67° 09' 35.08"

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

Designed by:
Dwn by:
Chkd by:
Rev. No.
Dated:
Scale: AS SHOWN
Plot date: MAY 10, 2002
Plot scale: 100.00
Dated: MARCH 2002
D.O.F.ILE NO. 104-38.299

File name:
Reference files:
D0061U02\DGN
D0061U02\DGN
D0061S02\DGN
D0061U03\DGN
D0061L02\DGN

MAYAGUEZ HARBOR
MAYAGUEZ, PUERTO RICO

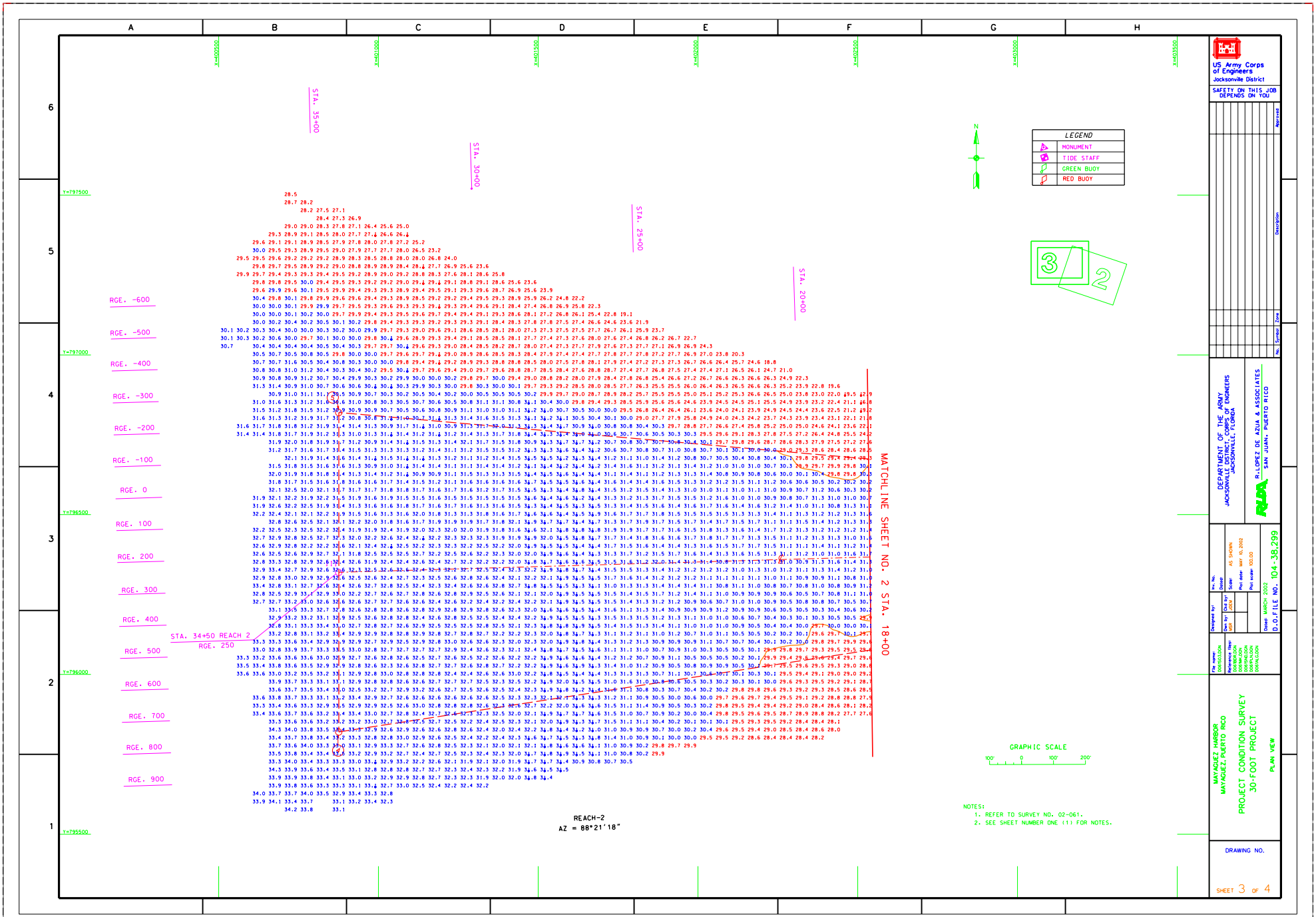
PROJECT CONDITION SURVEY
30-FOOT PROJECT

PLAN VIEW

DRAWING NO.

SHEET 2 OF 4

...\02-061\DGN\d061s02.dgn 05/15/02 01:09:34 PM

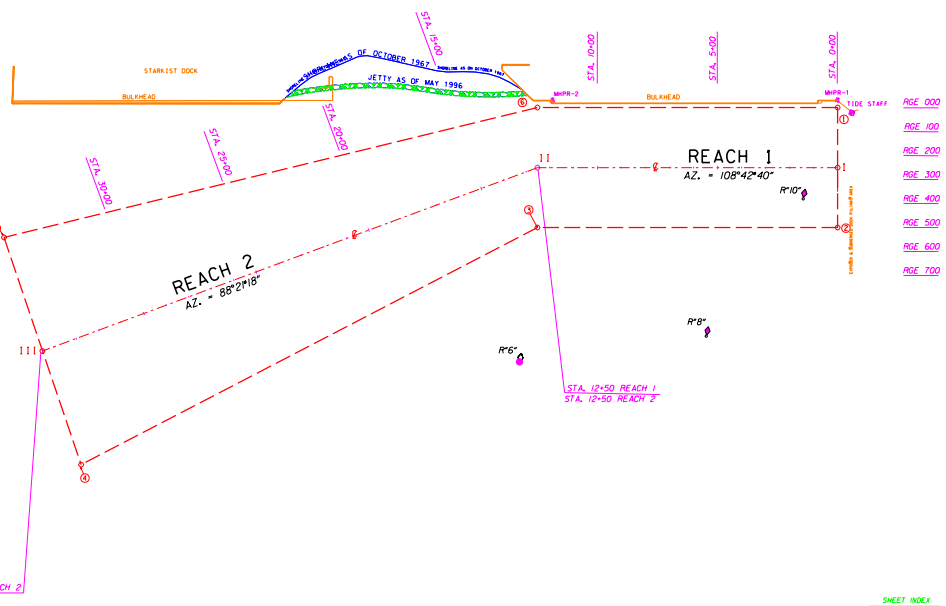


...\02-061\DGN\d061s03.dgn 05/15/02 01:08:37 PM

LEGEND/ABBREVIATIONS

USACOE = U.S. ARMY CORPS OF ENGINEERS
= FOUND USACOE GPS MONUMENT
INV. = INVERT
AZ. = AZIMUTH
RGE. = RANGE
STA. = STATION
ELEV. = ELEVATION
MLW = MEAN LOW WATER
℄ = CENTERLINE
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM 1929
NAD83 = NORTH AMERICAN DATUM 1983

= RED LIGHTED BUOY
= RED BUOY
= TIDE STAFF



SHEET INDEX

4

CHANNEL CONTROL

POINT	PLANE COORDINATES X	PLANE COORDINATES Y	STATION	RANGE	REACH
1	404339.14	796218.86	0+00	00	1
2	404178.74	795745.28	0+00	500	1
3	402994.81	796146.28	12+50	500	1
4	400875.91	795819.92	34+50	750	2
5	400875.91	796819.92	34+50	-250	2
6	403155.21	796619.86	12+50	00	1

CENTERLINE CONTROL

POINT	PLANE COORDINATES X	PLANE COORDINATES Y	STATION	RANGE	REACH
I	404258.94	795982.07	0+00	250	1
II	403075.00	796383.07	12+50	250	1
			12+50	250	2
III	400875.92	796319.92	34+50	250	2

NAVIGATIONAL AIDS LOCATIONS

NAVIGATIONAL AIDS		PLANE COORDINATES (NAD 83 - FEET) X	Y	LATITUDE	LONGITUDE
RED BUOY - 6	03/2002	402744.40	795639.28	18° 12' 57.71"	67° 09' 48.95"
RED BUOY - 8	03/2002	403516.66	795492.35	18° 12' 56.28"	67° 09' 40.93"
RED BUOY - 10	03/2002	404082.69	795905.52	18° 13' 00.40"	67° 09' 35.08"

SCALE: 1" = 200'
200' 0 200'

NOTES:
1. SEE SHEET NUMBER 1 FOR NOTES.
2. REFER TO SURVEY NO. 02-061.

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

Designed by:
Dwn by: JRC
Ckd by: JB
Fmn No. DACW-01-C-0005
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: 03/27/01
Plot scale: AS SHOWN
Dated: MARCH 2001
D.O.FILE NO. 104-38.299

File name: C054-S04.DGN
Reference files: C054-B00.DGN C054-M00.DGN C054-P-L2.DGN

MAYAGUEZ HARBOR
MAYAGUEZ, PUERTO RICO
PROJECT CONDITION SURVEY
30-FOOT PROJECT
CONTROL SHEET

DRAWING NO.

SHEET 4 OF 4

...\02-061\DGN\d061s04.dgn 05/15/02 01:07:31 PM