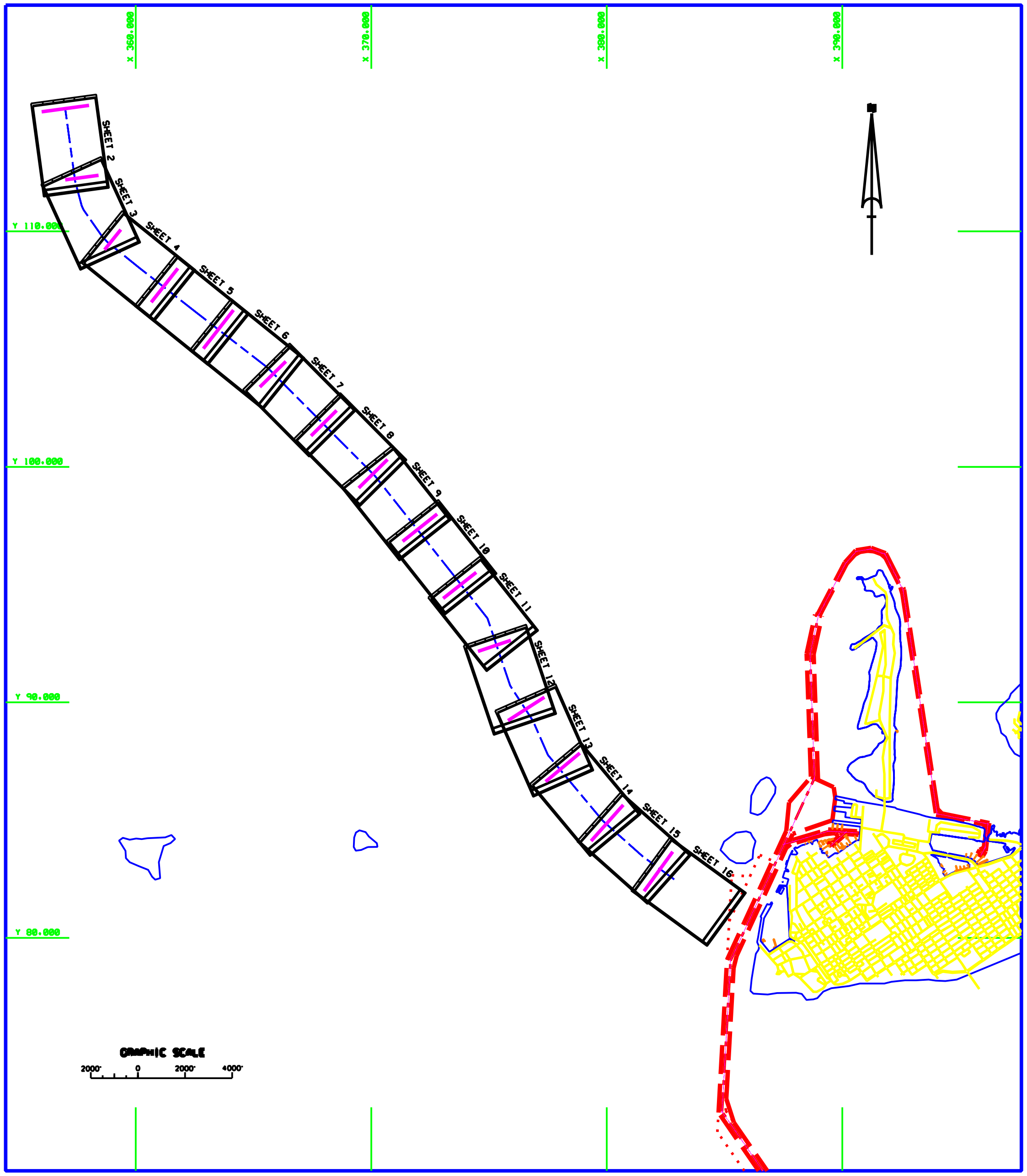
KEY WEST HARBOR
NORTHWEST CHANNEL
PROJECT CONDITION SURVEY



SURVEY NOTES:

1. REFER TO SURVEY NO. 06-065.

2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 0.61 FEET BELOW NGVD 1929.

3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (-) SIGN.

4. TIDAL REDUCTIONS WERE MADE FROM A STAFF SET IN THE TURNING BASIN, AND REFERENCED FROM BENCHMARK "KH04".

5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).

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 RESON MULTI-BEAM ECHO SOUNDER WITH A 200KHZ (HIGH FREQUENCY) HULL-MOUNTED TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
FLORIDA	24 JAN 2006	NW CHANNEL

9. AIDS TO NAVIGATION WERE NOT 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 ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

BENCHMARK	NGVD ELEV. (FT)
BENCHMARK NAME	6.75

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

NGVD 1929

0.61 FEET

M.L.L.W.

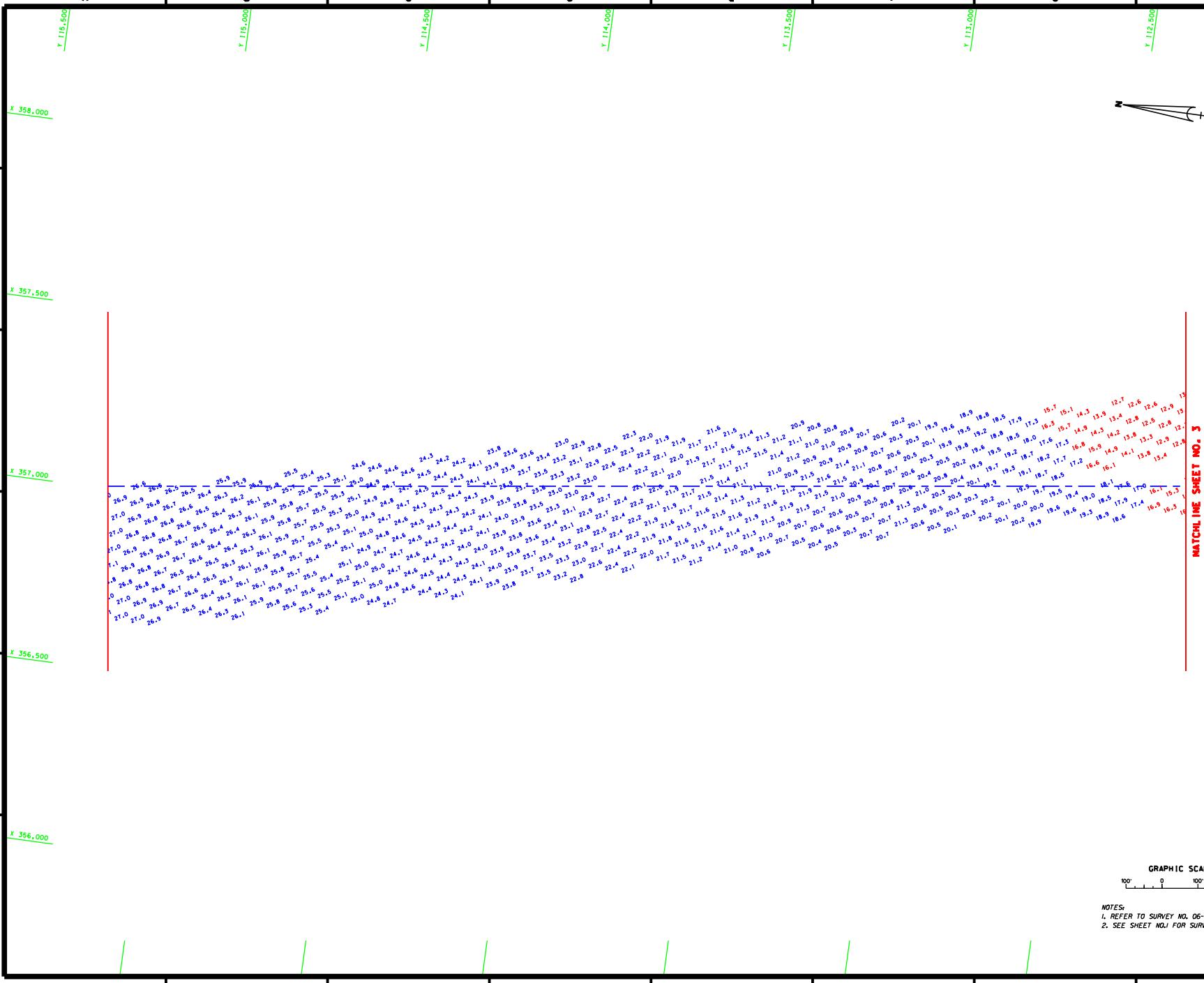
RELATIONSHIP BETWEEN NGVD 1929 AND 1978 NOAA MEAN LOWER LOW WATER TIDAL DATUM

PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
1/16

SHEET 1 OF 16

06-065sh01.dgn 2/17/2006 7:52:22 AM



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

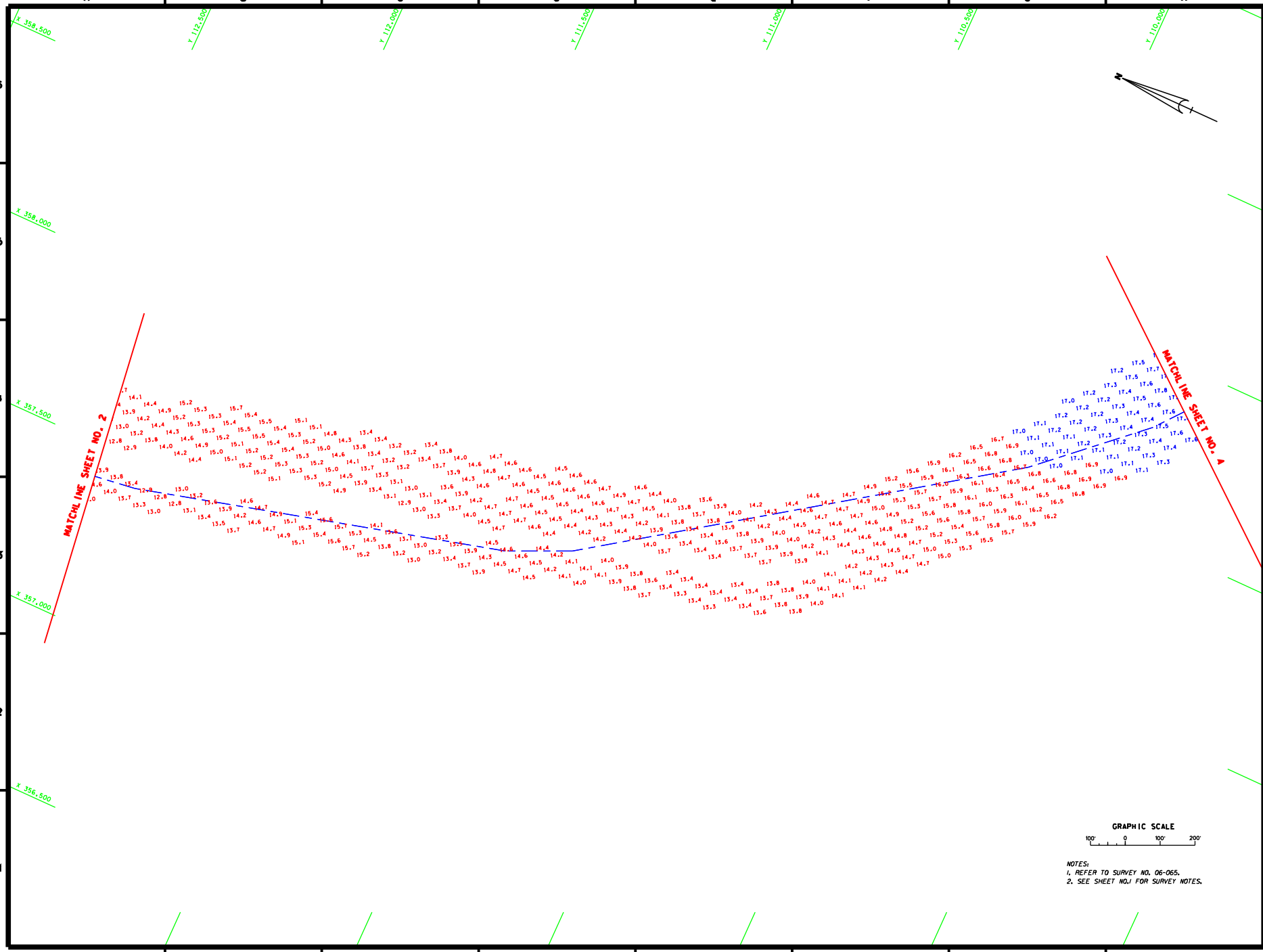
Designed by: WRW
Dwn by: EWS
Ckd by: XXX
Inv. No.
Dsgnr
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHQ2.DGN
Reference files: BIOPRIB_VIB.DGN NWCHAN.DGN KWESTHRBR-V-SNWRC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
2/16

SHEET 2 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

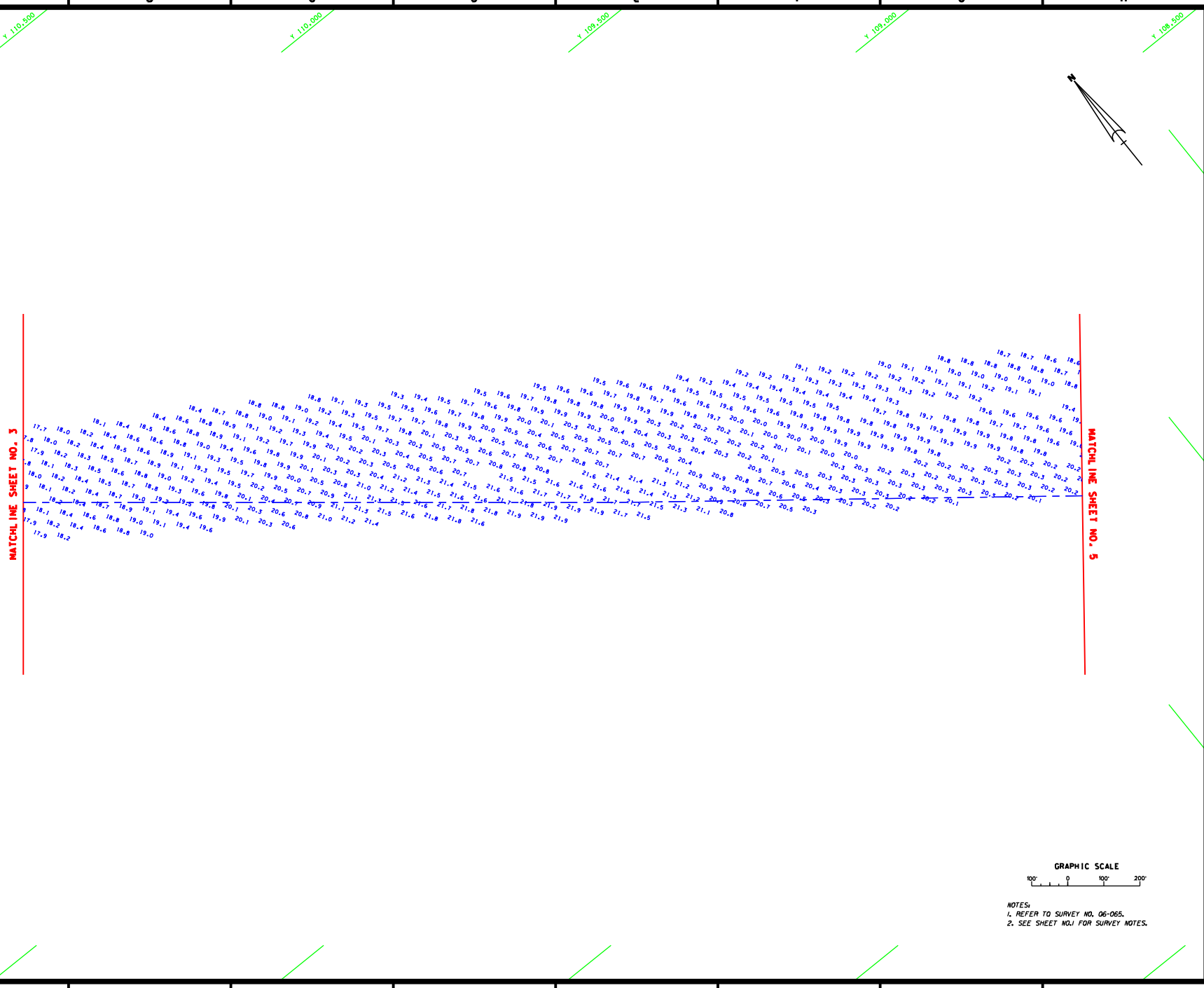
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Date
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHD3.DGN
Reference files: BNDRBB_V8.DGN, NWCHAN.DGN, KWESTHRBR-V-SHWRC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
3/16

SHEET 3 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

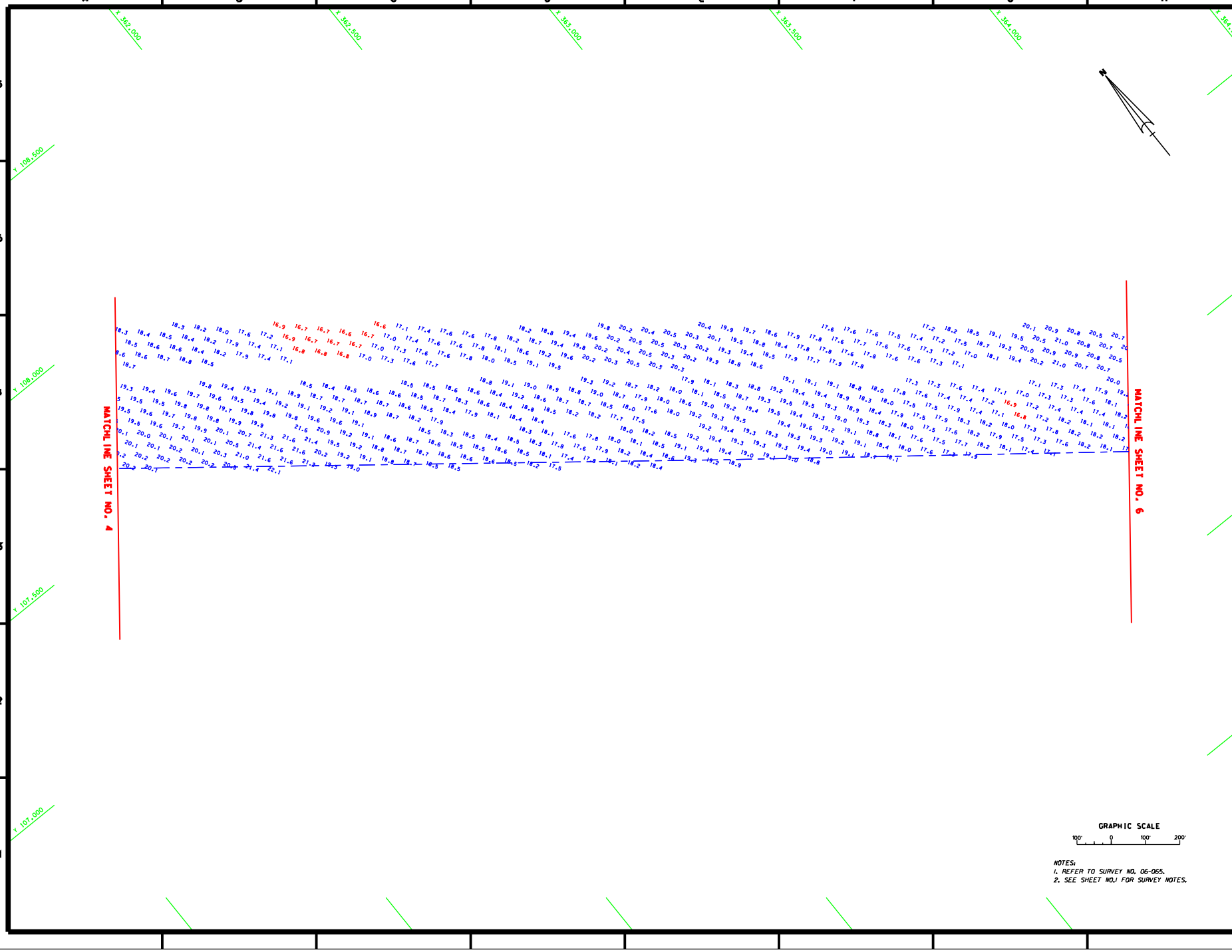
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Date: JAN 2006
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHOA.DGN
Reference files: BNDRBB.VIB.DGN
NWCHAN.DGN
KWEST-HRBR-V
-SNWWC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
4/16

SHEET 4 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

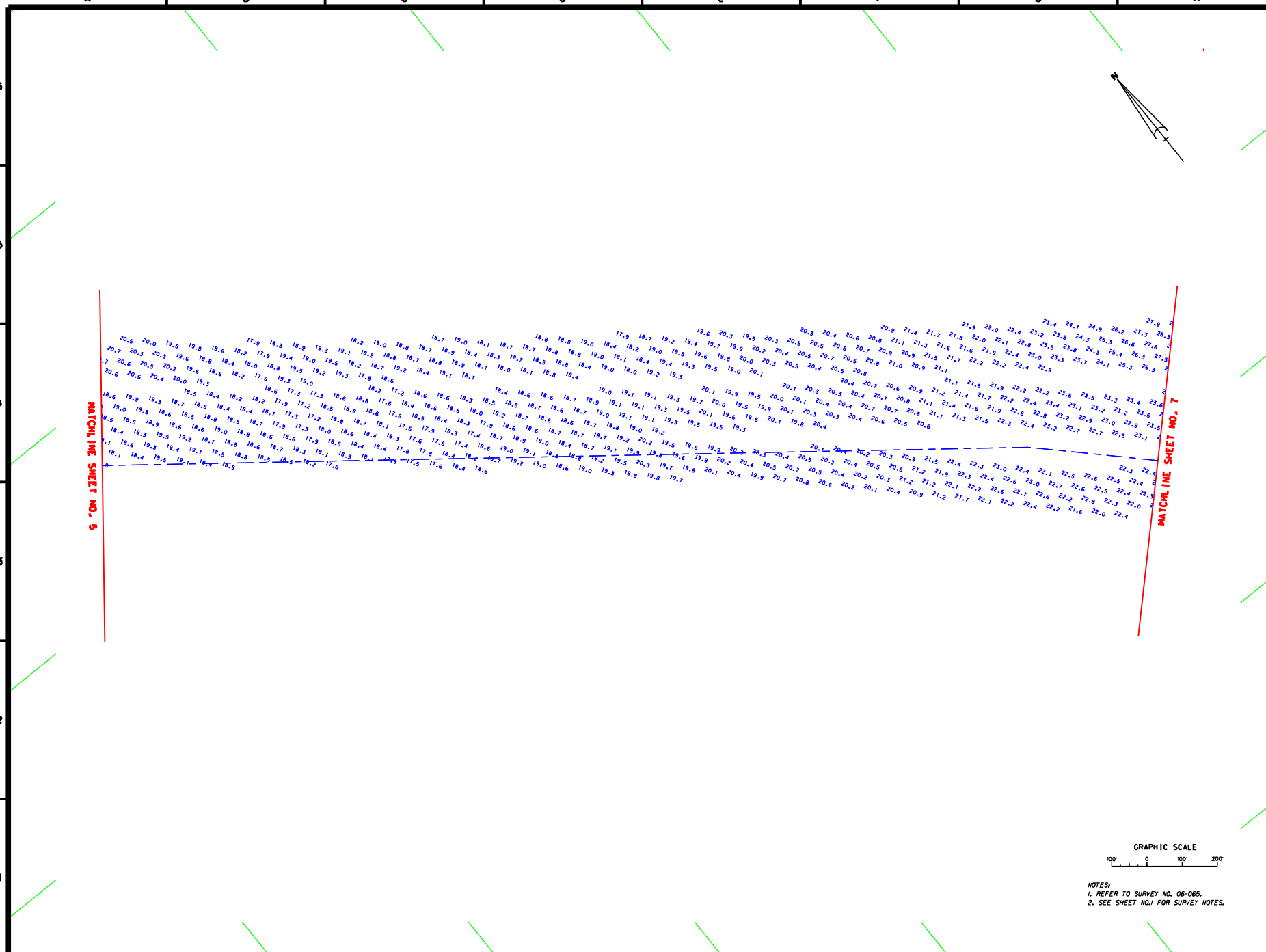
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Dated
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SH05.DGN
Reference files: BRDRSB_V8.DGN, HWCHAN.DGN, KWESTHRBR-V, -SHWWC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
5/16

SHEET 5 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

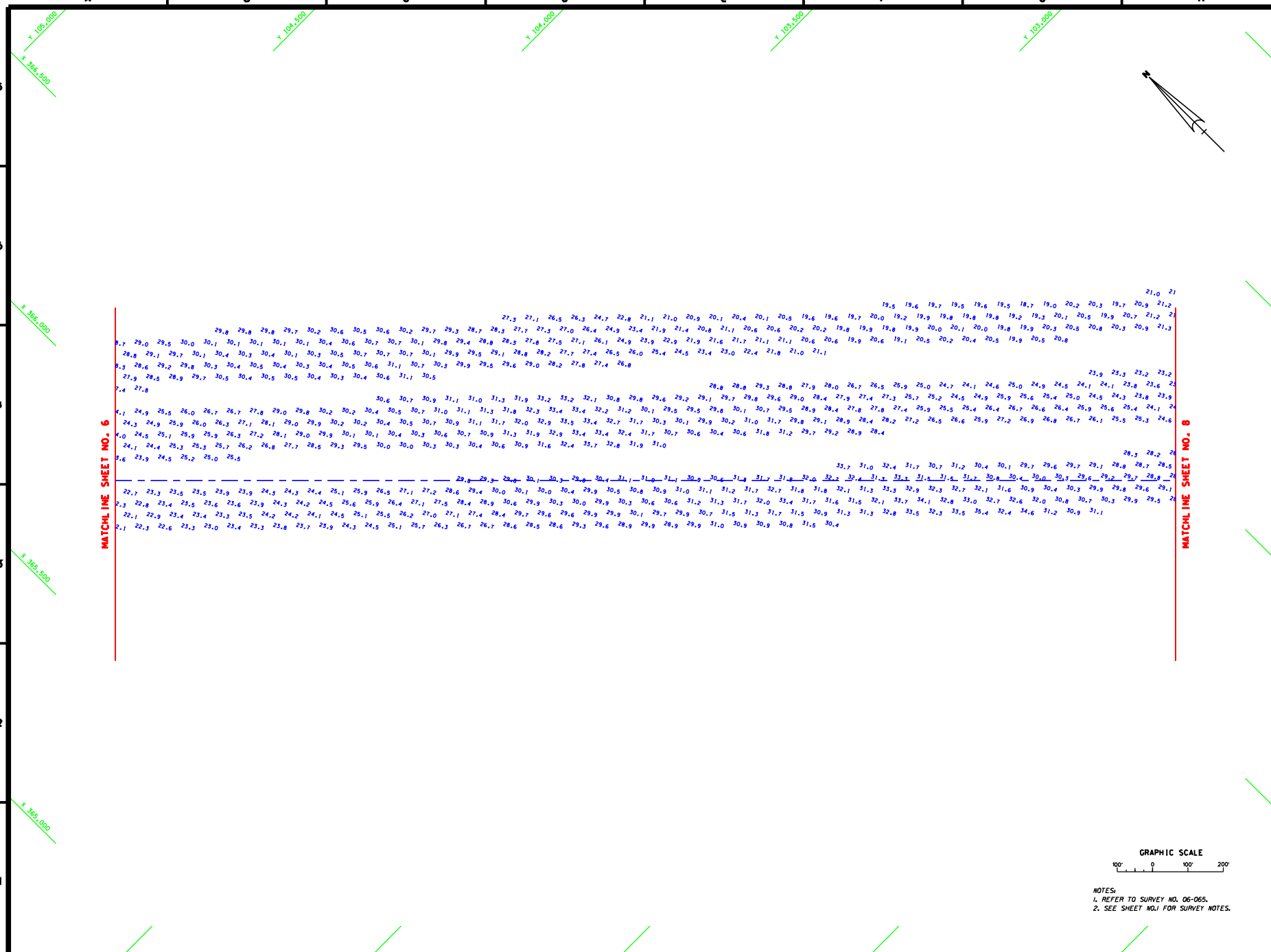
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Dsgn
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHOB.DGN
Reference files: BNDRIB_V8.DGN, NWCHAN.DGN, KWESTHRBR-V-SHWNC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
6/16

SHEET 6 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

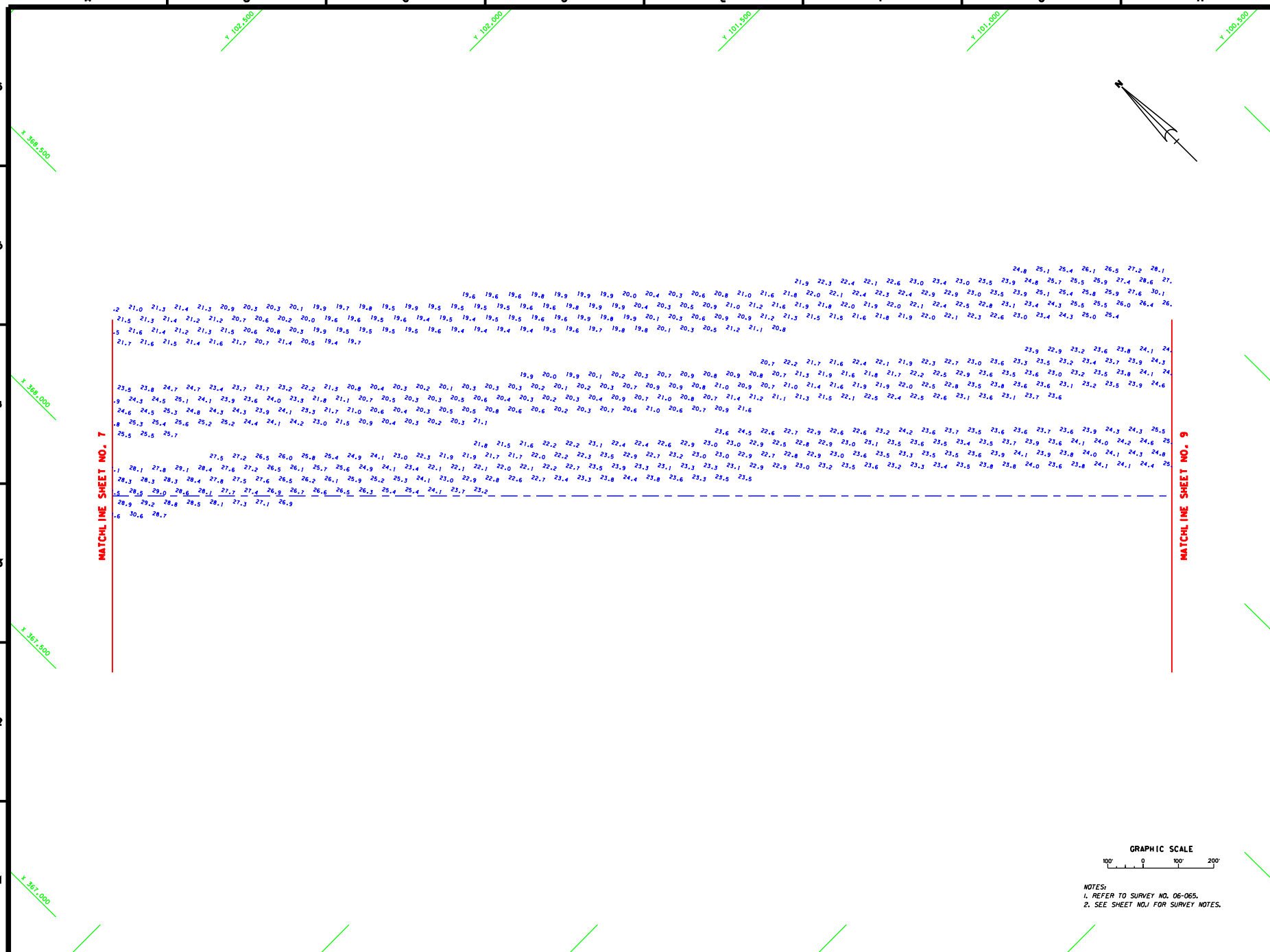
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Dsgn
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SH07.DGN
Reference files: BNDRIBS_VIS.DGN
NWCHAN.DGN
KWESTHRBR-V
-SNWIC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
7/16

SHEET 7 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

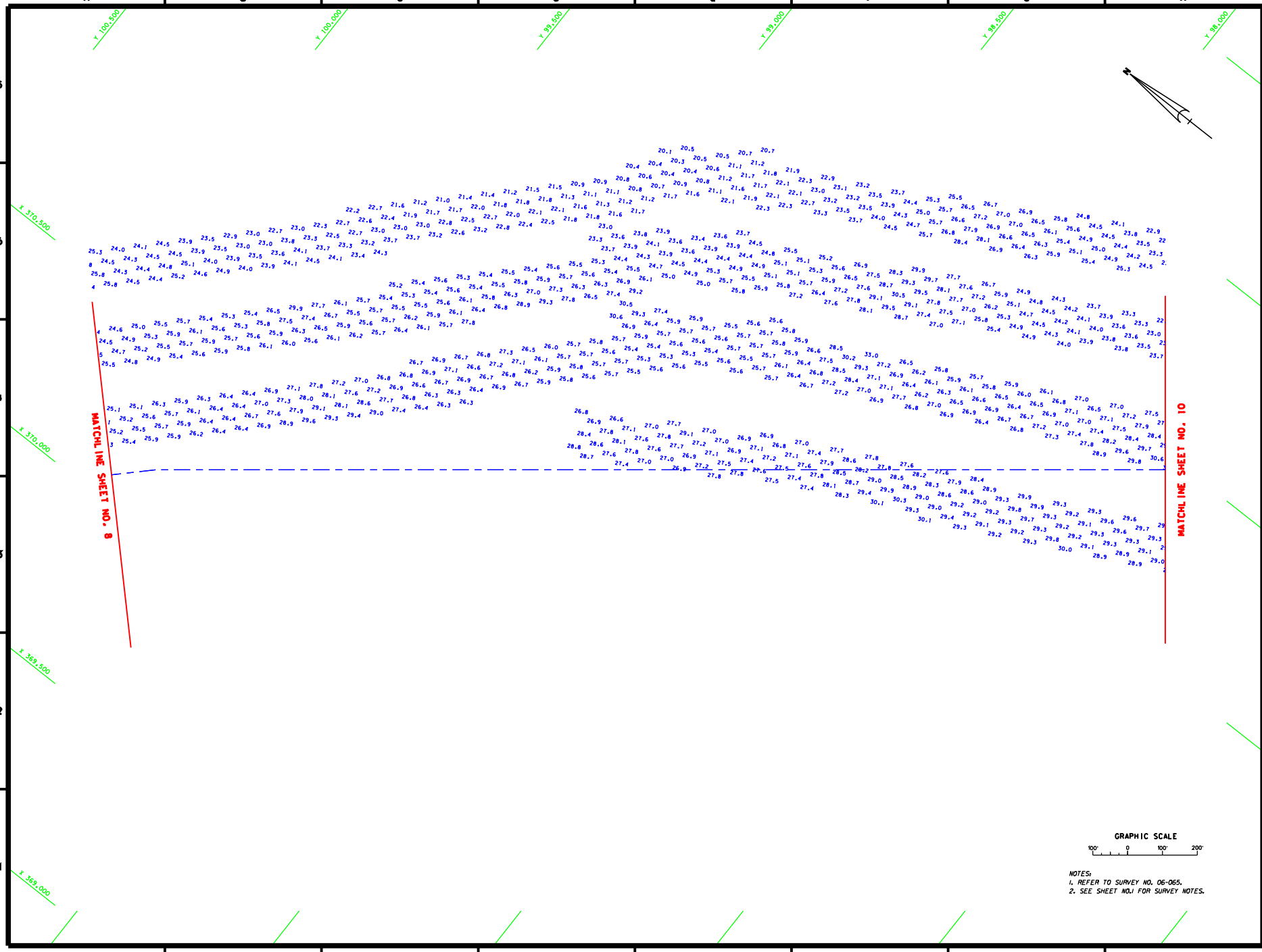
Designed by: WRB/ Dwn by: EWS Ckd by: XXX
Inv. No. Dsgnr Scale: AS SHOWN Plot date: xx xx xxxx Plot scale: XXX
Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SH08.DGN
Reference files: BNDRIB.VIB.DGN NWCHAN.DGN KWESTHRBR-V -SHWNC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
8/16

SHEET 8 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

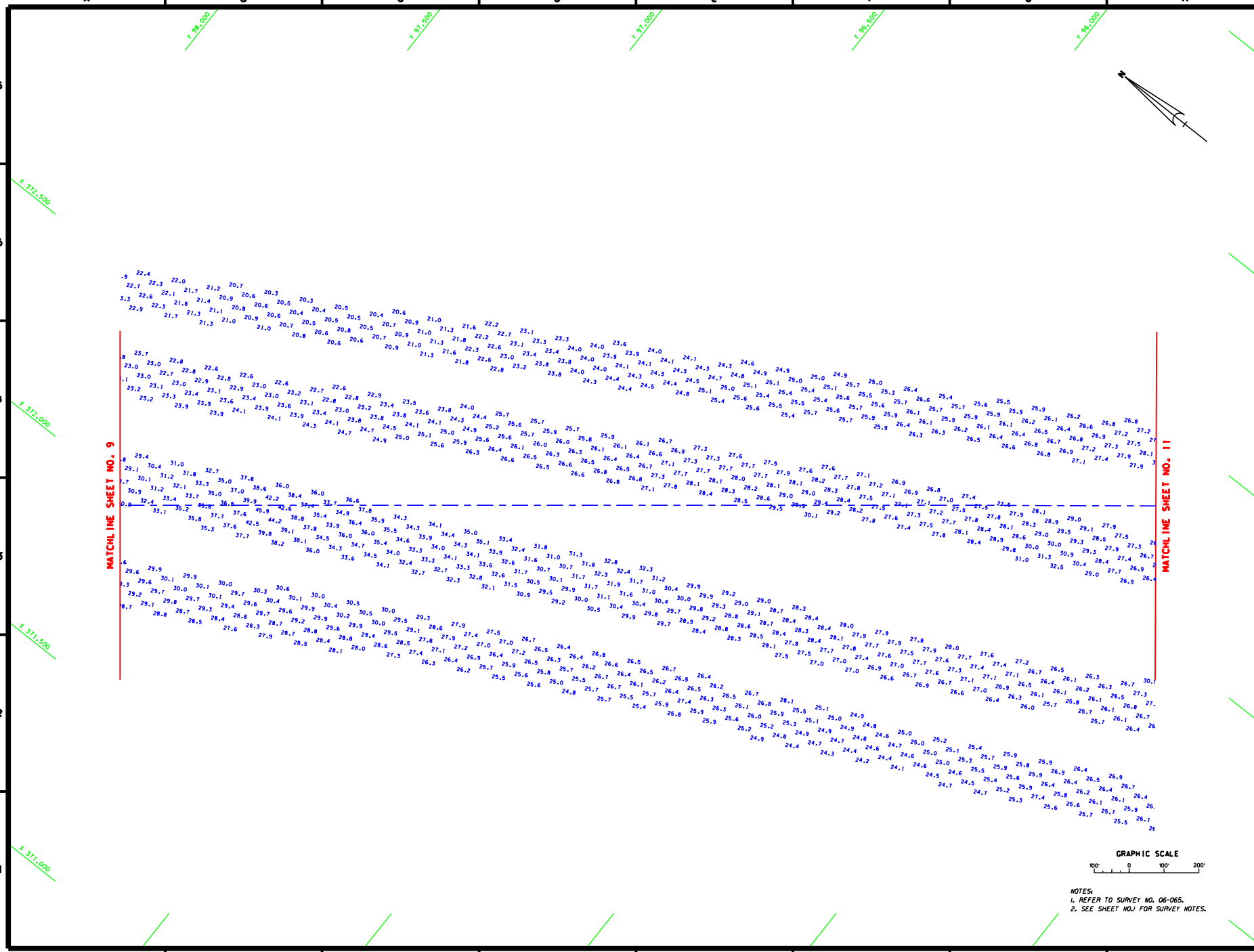
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Date: JAN 2006
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHOW.DGN
Reference files: BNDRBB_VIB.DGN, NWCHAN.DGN, KWESTHRBR-V-SHWNC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
9/16

SHEET 9 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

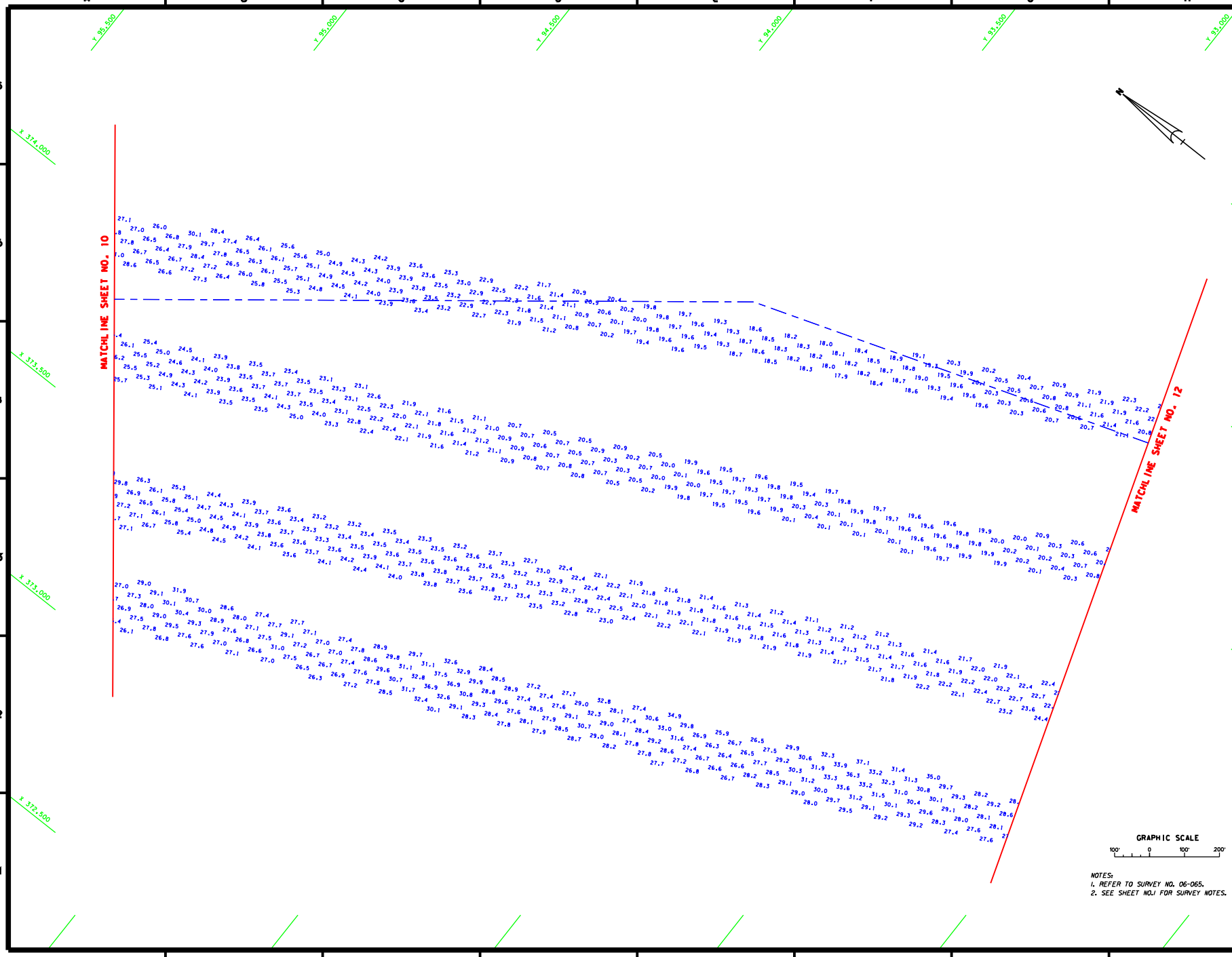
Designed by: WRB
Dwn by: EWS
Ckd by: XXX
Inv. No.
Date: JAN 2006
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHVD.DGN
Reference files: BNDRSB_VIS.DGN NWCHAN.DGN KWESTHRBR-V -SHVWC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

DRAWING NO.
10/16

SHEET 10 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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 XXXX

Designed by: WRB
Dwn by: XXX
Ckd by: XXX

Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHTLOGN
Reference files: BNDRBS_VEL.DGN, NWCHAN.DGN, KWESTHRBR-V-SMNWC.DGN

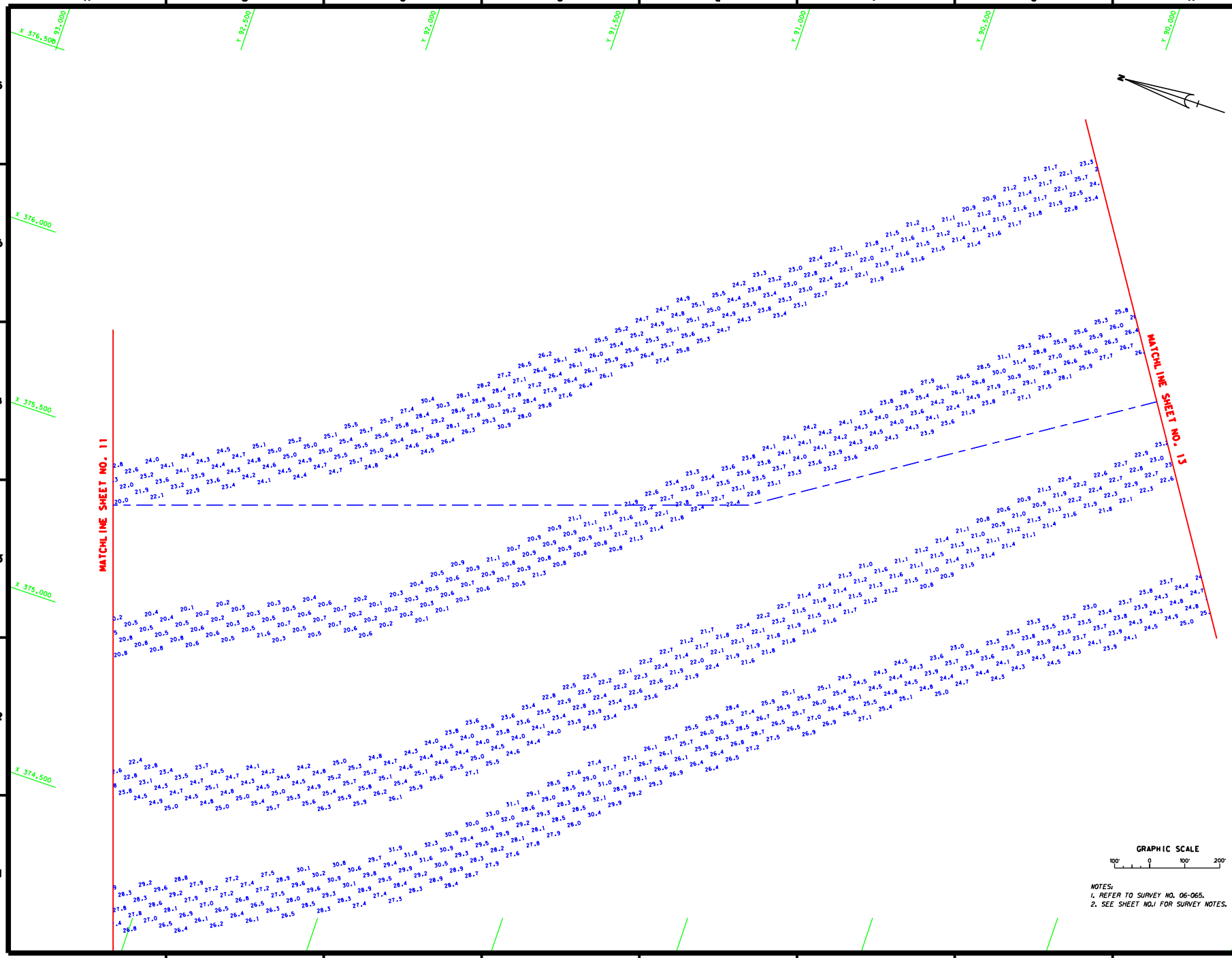
KEY WEST, FLORIDA

PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

PLAN

DRAWING NO.
11/16

SHEET 11 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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

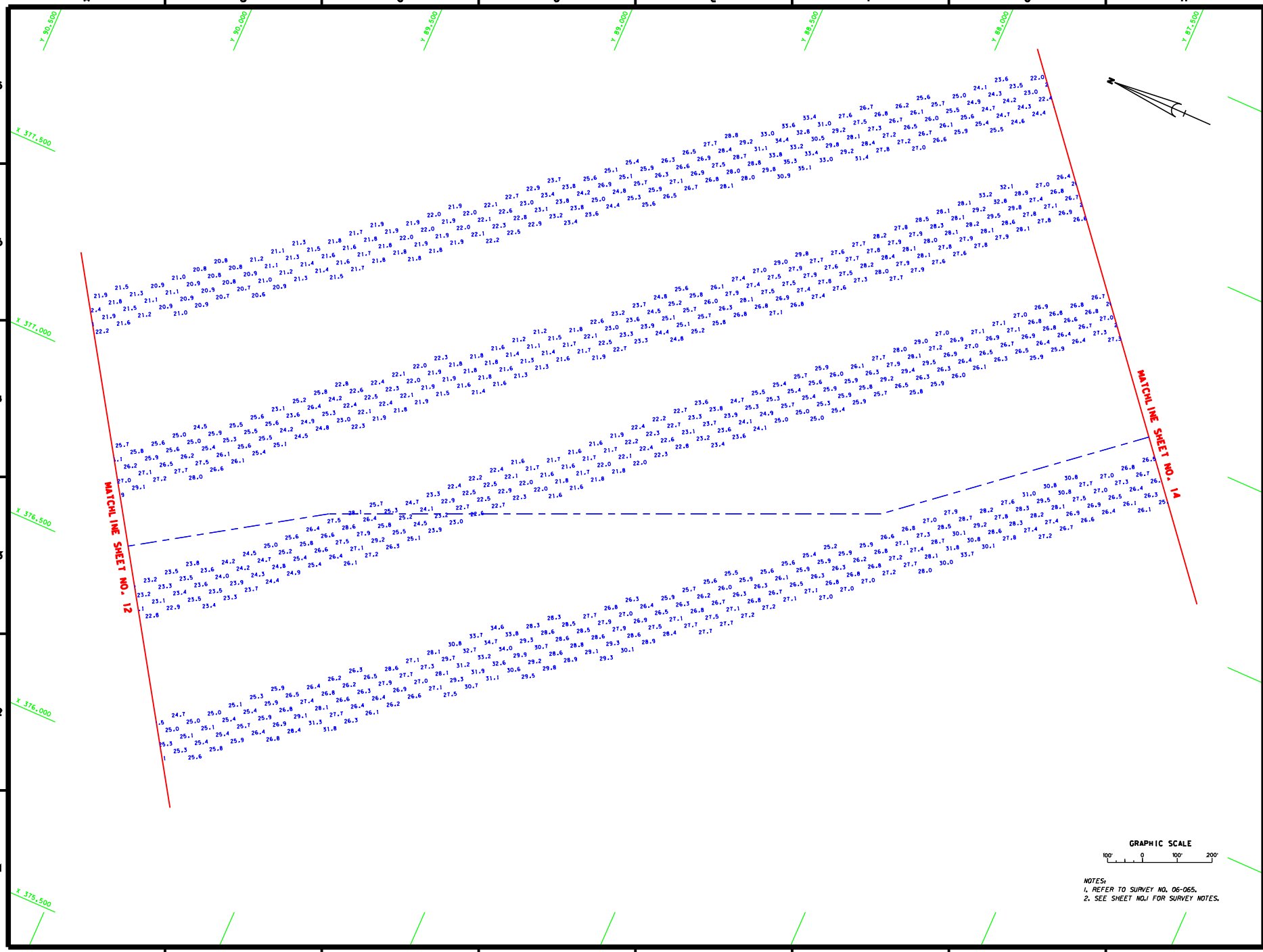
Inv. No. DACW17-XX-X-XXXX
Dated XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale XXX
Designed by: WRS
Dwn by: XXX
Ckd by: XXX
Date JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name 06-065SHD.DGN
Reference files: BRDRSB-VIL.DGN NWCHAN.DGN KWESTHRBR-V-SHMWC.DGN

KEY WEST, FLORIDA
PROJECT CONDITION SURVEY
NORTHWEST CHANNEL
PLAN

DRAWING NO.
12/16

SHEET 12 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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 XXXX

Designed by: WRB
Dwn by: XXX
Ckd by: XXX

Date JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHL3.DGN
Reference files: BNDRSB-VIL.DGN, NWCHAN.DGN, KWESTHRBR-V-SAMWC.DGN

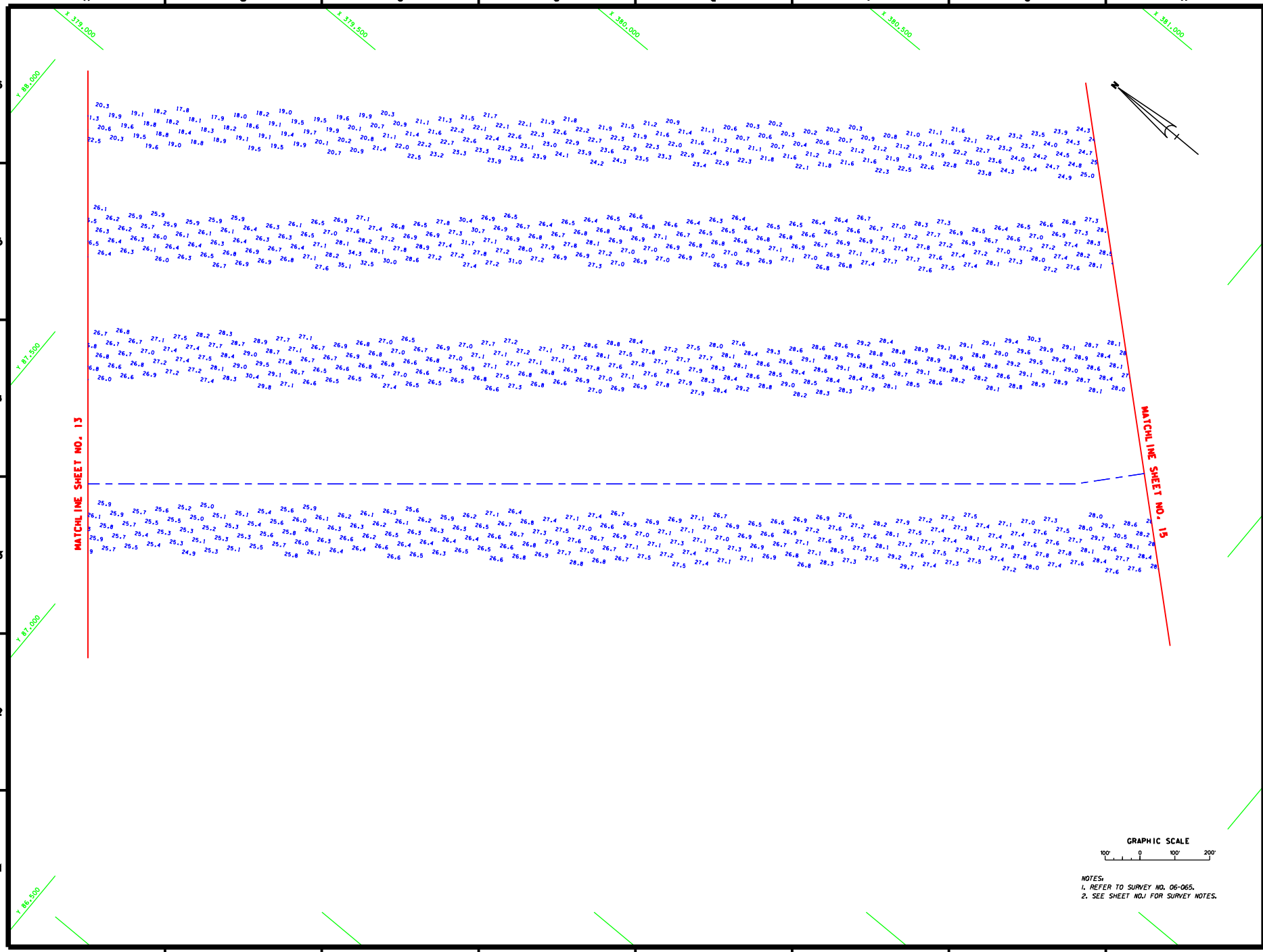
KEY WEST, FLORIDA

PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

PLAN

DRAWING NO.
13/16

SHEET 13 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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: WRB
Dwn by: XXX
Ckd by: XXX

Date: JAN 2006
D.O.FILE NO. XXX-XX.XXX

File name: 06-065SHA.DGN
Reference files: BNDRBB.VIB.DGN
NWCHAN.DGN
KWESTHRBR-V-SHMWC.DGN

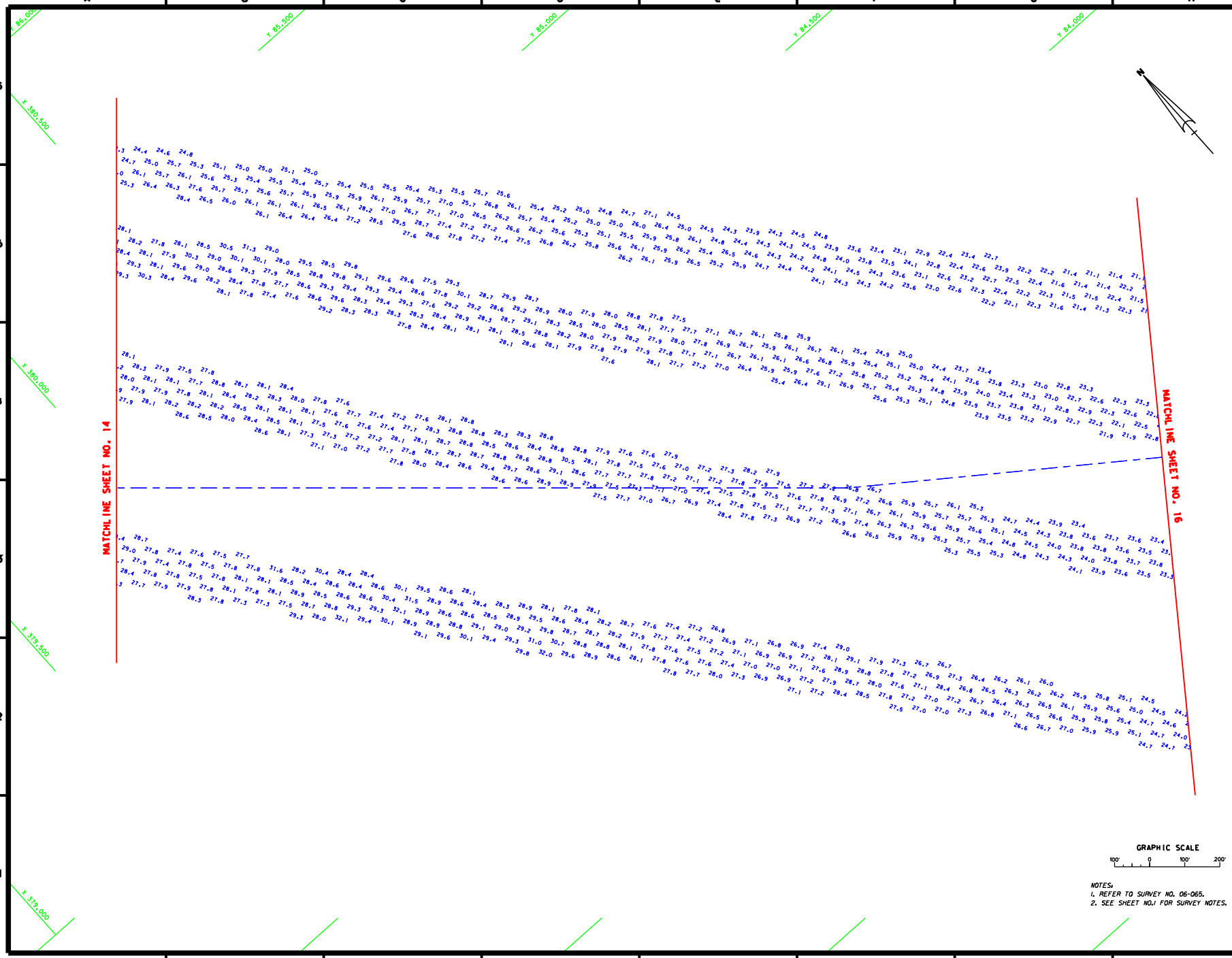
KEY WEST, FLORIDA

PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

PLAN

DRAWING NO.
14/16

SHEET 14 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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
Dsgn XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale XXX
Date JAN 2006
D.O.FILE NO. XXX-XX.XXX

Designed by: WRB
Dwn by: XXX
Ckd by: XXX

File name: 06-065SHIS.DGN
Reference files: BNDRSB_VIB.DGN
NWCHAN.DGN
KWESTHRBR-V-SNWRC.DGN

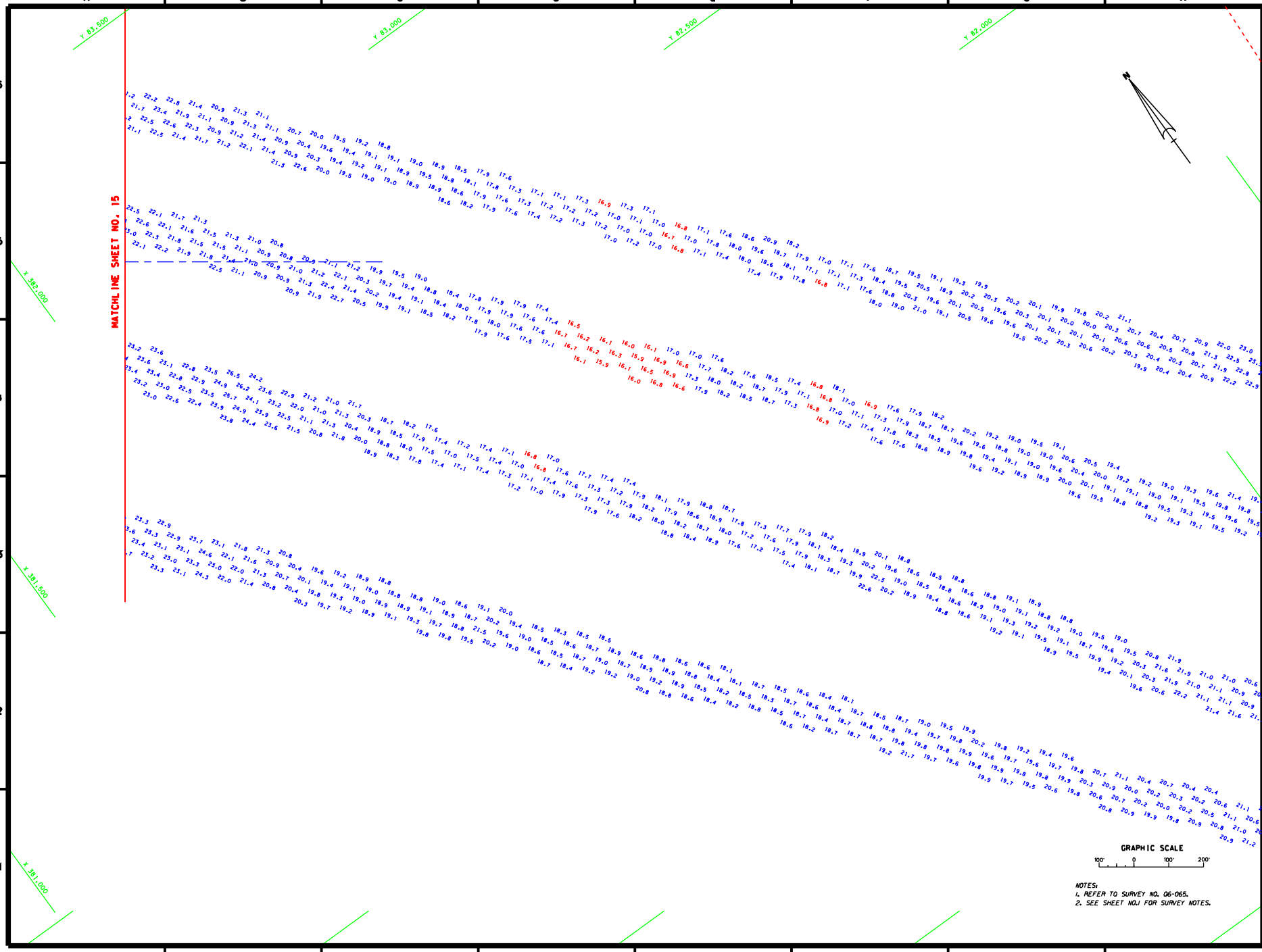
KEY WEST, FLORIDA

PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

PLAN

DRAWING NO.
15/16

SHEET 15 OF 16



NOTES:
1. REFER TO SURVEY NO. 06-065.
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: XXX
Dwn by: XXX
Ckd by: XXX

File name 06-065SH16.DGN
Reference files: BIOPRB_V8.DGN NWCHAN.DGN KWESTHRBR-V-SHNWC.DGN

Date JAN 2006
D.O.FILE NO. XXX-XX.XXX

KEY WEST, FLORIDA

PROJECT CONDITION SURVEY
NORTHWEST CHANNEL

PLAN

DRAWING NO.
16/16

SHEET 16 OF 16