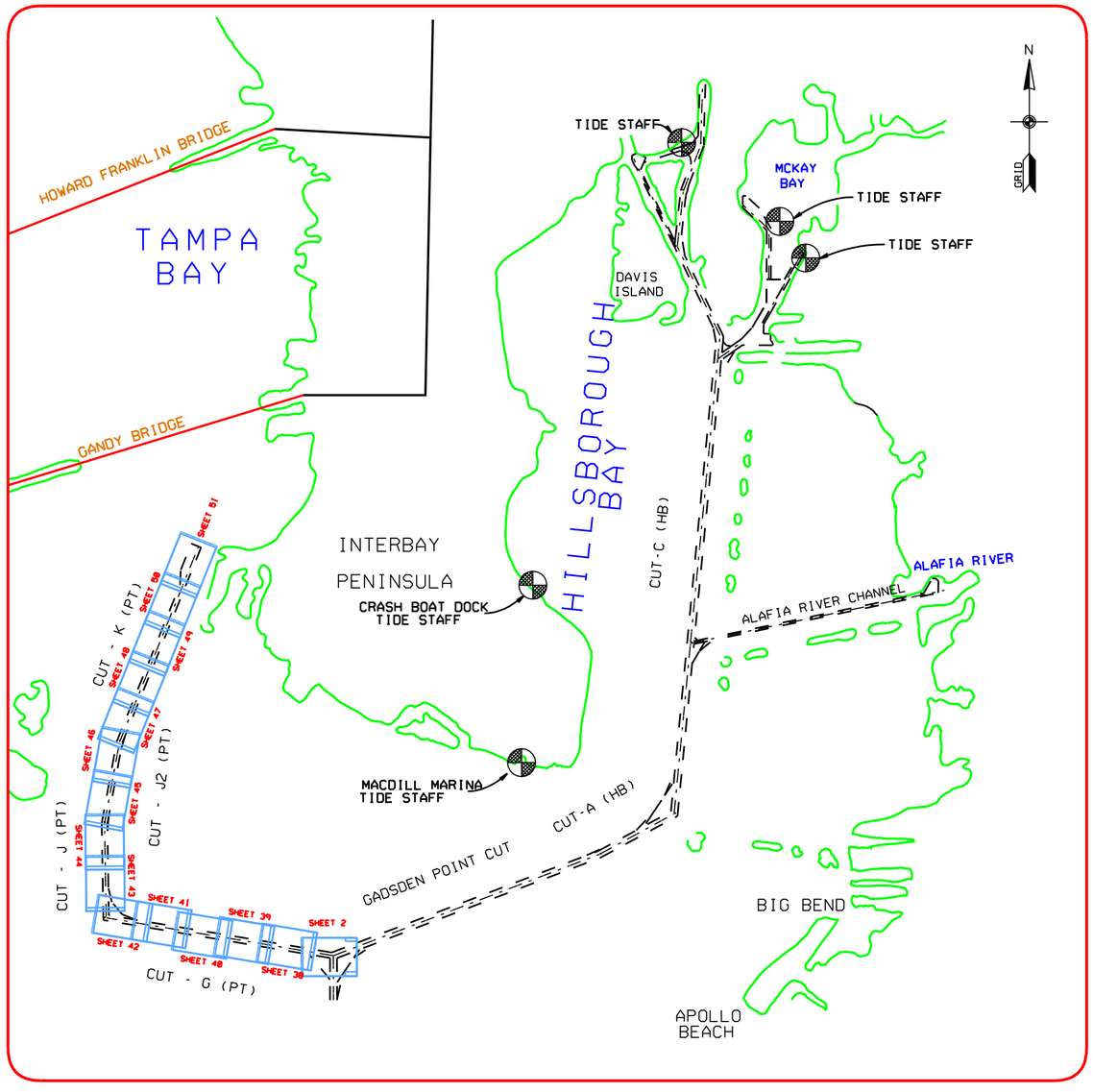
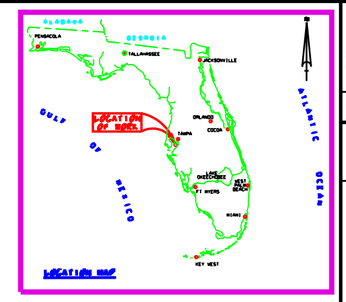



# TAMPA HARBOR, FLORIDA
# UPPER HILLSBOROUGH BAY
# PROJECT CONDITION SURVEY

SURVEY NOTES:

1. REFER TO SURVEY NO. 06-102.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 0.81 FEET BELOW NGVD 1929 FROM CUT-G THRU CUT-K.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (-) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM MULTIPLE TIDE STAFFS. REFER TO TIDE STAFF AND BENCHMARK TABULATION TABLE FOR STAFF LOCATIONS BENCHMARK ELEVATIONS.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST 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 ROSS SMART SOUNDER DEPTH RECORDER WITH A 28KHZ (LOW FREQUENCY) TRANSDUCER FOR CUT-G AND A RESON MULTI-BEAM ECHO SOUNDER WITH A 200KHZ (HIGH FREQUENCY) HULL-MOUNTED TRANSDUCER FOR CUTS J, J2 AND K .

| VESSEL | DATE OF SURVEY | CUT |
|---|---|---|
| FLORIDA | 24-27 MAY 2006 | CUTS J, J-2, AND K |
| WB-34 | 25 MAY 2006 | CUT G |

9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY AND WERE WERE ALSO FROM SURVEY 04-001.
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 AVIALABLE DEPTHS AT THE TIME OF 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.

TIDE STAFF AND BENCHMARK TABULATION

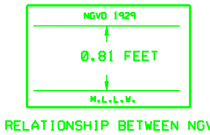
| STAFF LOCATION | BENCH MARK | ELEV NGVD |
|---|---|---|
| OLD PORT TAMPA | NOAA PORTS | |
| | | |
| | | |

LEGEND

| | |
|---|---|
| BM | BENCHMARK |
| | LIGHTED BEACON |
| | GREEN DAYBEACON |
| | RED DAYBEACON |
| | RED LIGHTED BUOY |
| | GREEN LIGHTED BUOY |
| C | CAN BUOY |
| N | NUN BUOY |
| | TIDE STAFF |

PROJECT DEPTHS

| CHANNEL CUT | DEPTH |
|---|---|
| GADSDEN PT. CH. CUT | 43 |
| CUT-A (HB) CH. | 43 |
| CUT-C (HB) CH. | 43 |
| CUT-D (HB) CH. | 34 |
| SEDDON CH. CUT | 12 |
| LOWER SPARKMAN CH. CUT | 34 |
| UPPER SPARKMAN CH. CUT | 34 |
| GARRISON CH. CUT | 34 |
| YBOR CH. CUT | 34 |
| PORT SUTTON CH. CUT | 43 |
| PORT SUTTON TURNING BASIN | 43 |
| PORT SUTTON TERMINAL CH. | 34 |
| EAST BAY CH. CUT | 43 |
| EAST BAY EXT-1 CH. CUT | 34 |
| EAST BAY EXT-2 CH. CUT | 34 |




RELATIONSHIP BETWEEN NGVD 1929 AND 1978 NOAA MEAN LOWER LOW WATER TIDAL DATUM (CUTS G THRU K)

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
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: WRN
Dwn by: WRN
Chd by: WRN

Dated: MAY 2006
D.O.F.FILE NO.

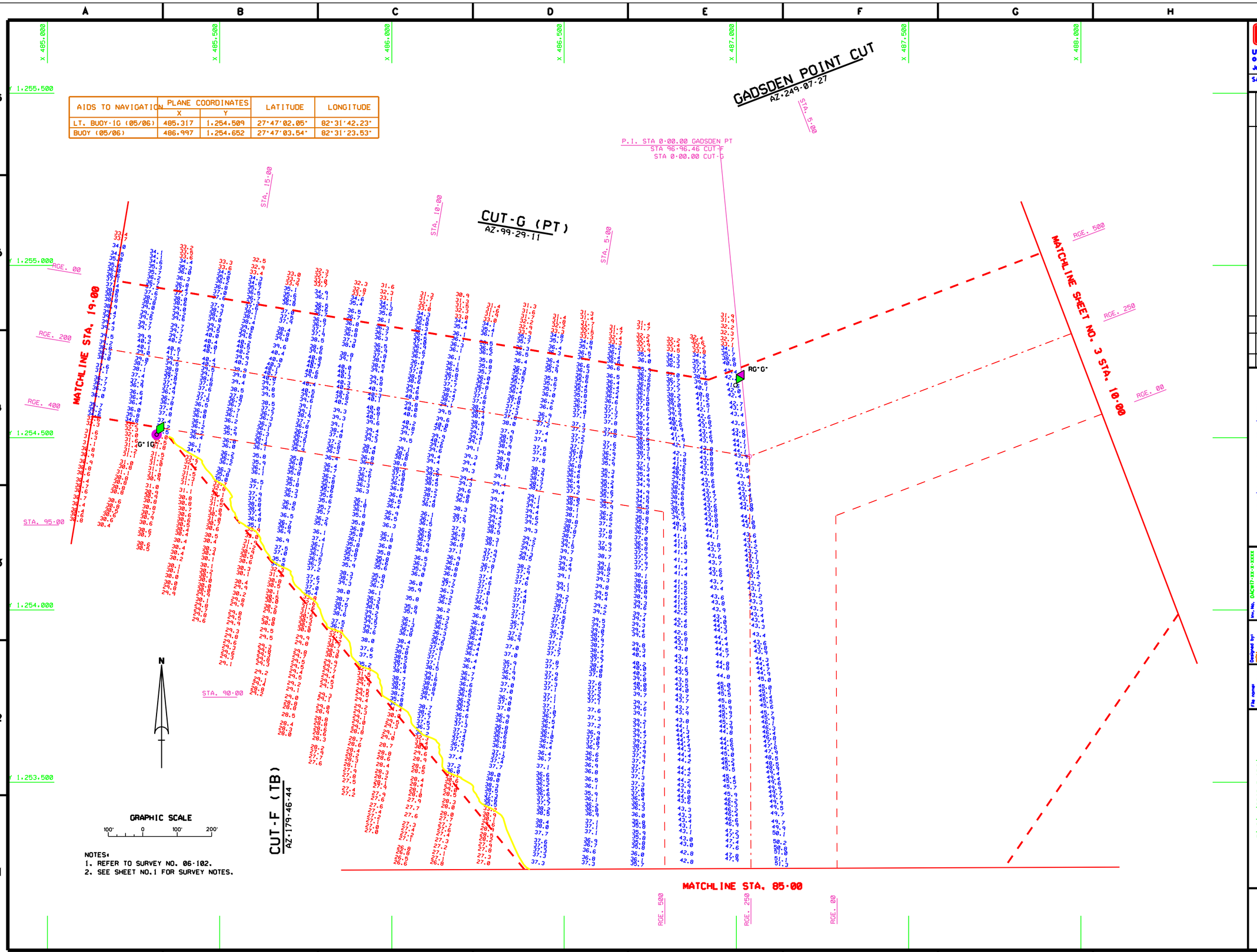
File name: 06-102SHO1.DGN
Reference files: BGORGB.DGN, NEWFLMAP.DGN, INDX_W.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
UPPER HILLSBOROUGH BAY
COVER

DRAWING NO.
1/16

SHEET 1 OF 40

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-IG (05/06) | 485.317 | 1,254.509 | 27°47'02.05" | 82°31'42.23" |
| BUOY (05/06) | 486.997 | 1,254.652 | 27°47'03.54" | 82°31'23.53" |




NOTES:
1. REFER TO SURVEY NO. 06-102.
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

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

Designed by: WRU
Dwn by: WRU
Ckd by: WRU

Dated: MAY 2006
D.O. FILE NO.

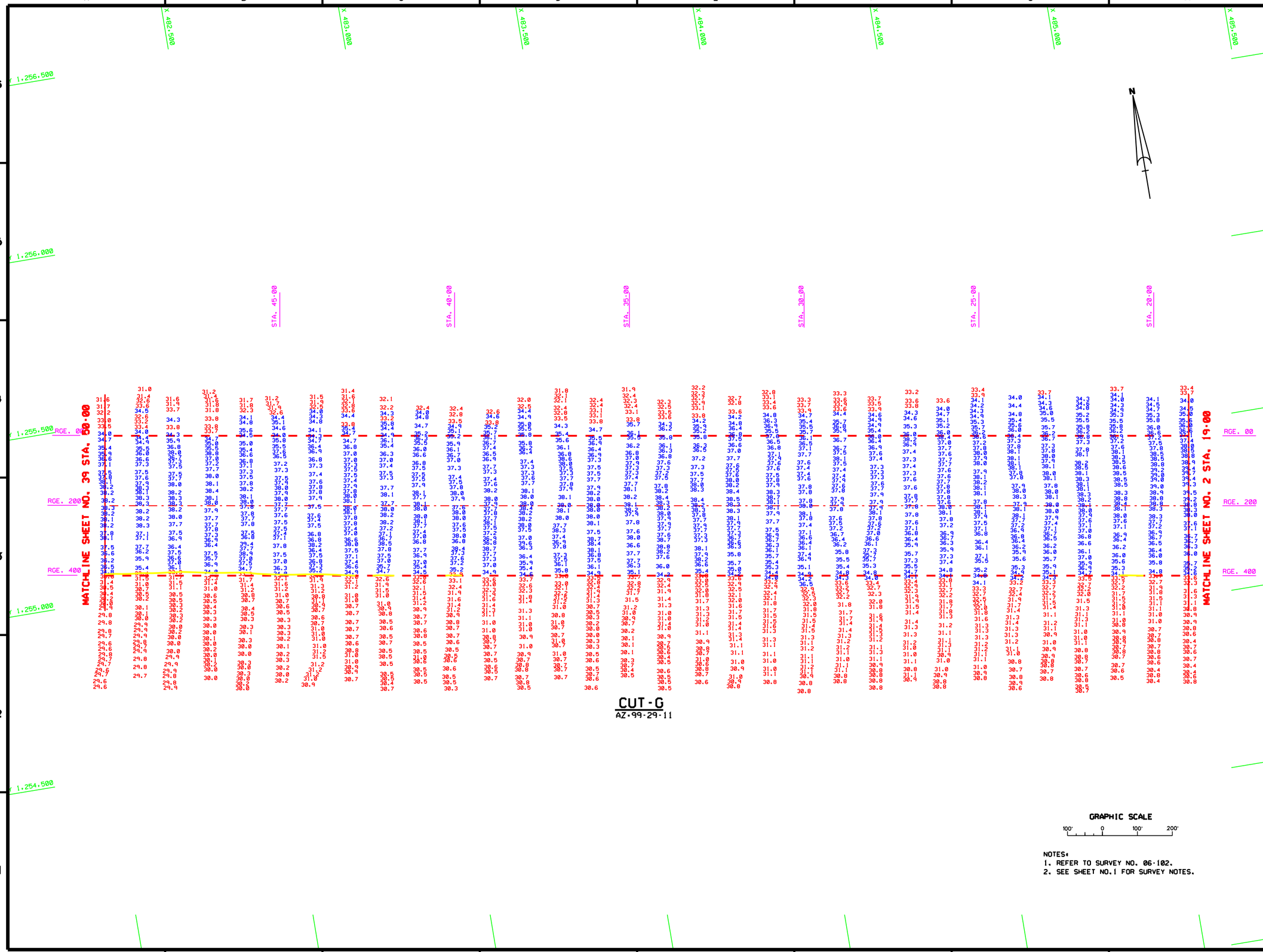
File name: 06-102SHS2.DGN
References: 06-102SHS3.DGN, 06-102CTG.DGN, 06-102MAV.DGN, CON34.DGN

TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA. 85+00 CUT-F THRU STA. 19+00 CUT-G
STA. 0+00 THRU STA. 10+00 GADSDEN POINT CUT
PLAN

DRAWING NO.
2/16

SHEET 2 OF 54




CUT-G
AZ-99-29-11

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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-XXX
Design by XXX
Date XX XXX XXXX
Scale AS SHOWN
Chd by XXX
Plot date XX XX XXXX
Dwn by XXX
Plot scale XX.X
Date MAY 2006
D.O.F.ILE NO.

File name 06-102SH38.DGN
Reference files BRDGE.DGN 06-102C1C.DGN TAMPAHBR83.DGN CON34.DGN

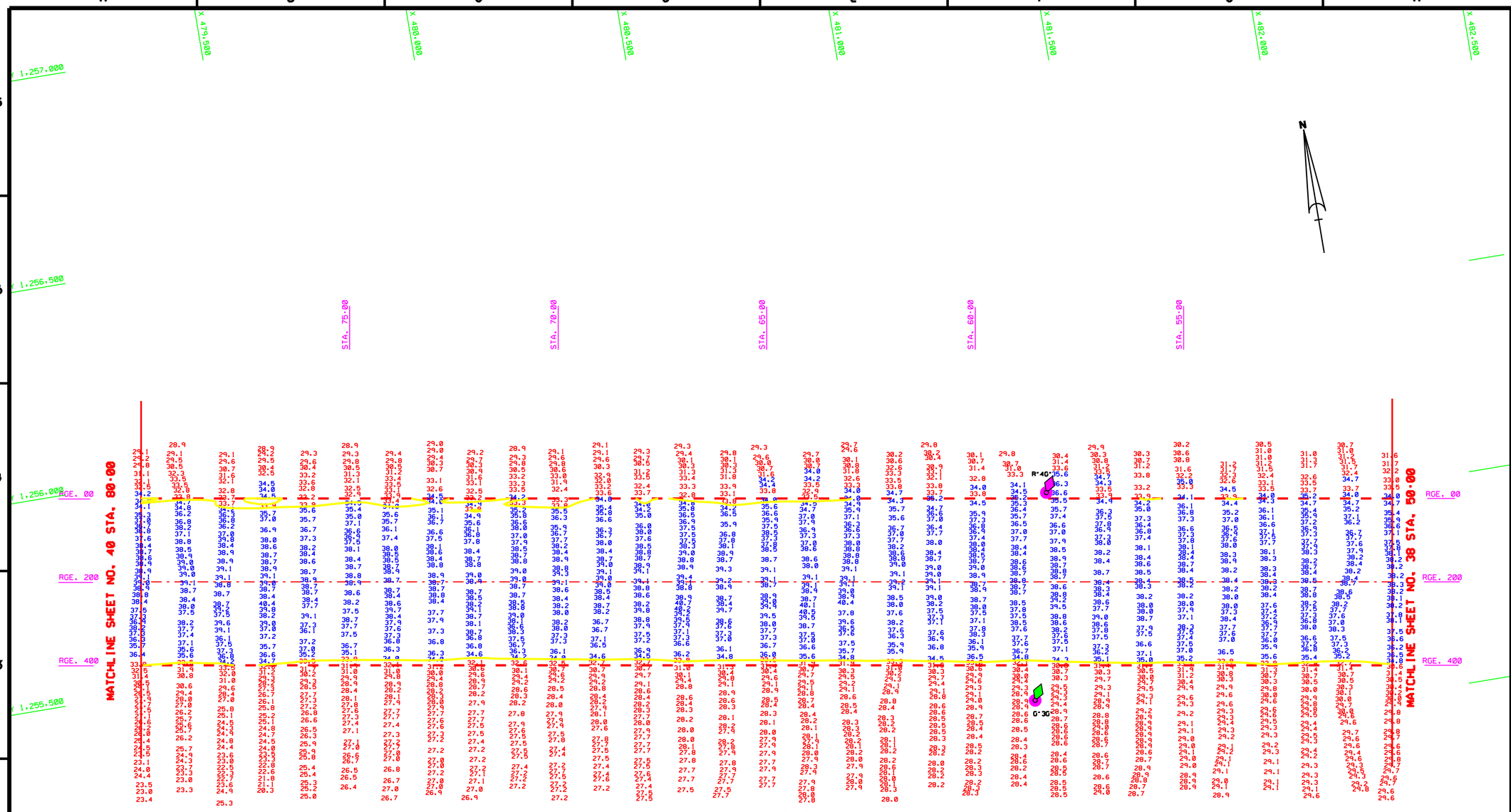
TAMPA HARBOR, FLORIDA

PROJECT CONDITON SURVEY
12, 34, 41 & 43-FOOT PROJECT

STA.20-00 THRU STA.50-00 CUT-G
PLAN

DRAWING NO.
3/16

SHEET 38 OF 54




CUT-G
AZ:99-29-11

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-3G (05/06) | 481.214 | 1,255.130 | 27°47'08.03" | 82°32'27.94" |
| LT. BUOY-4G (05/06) | 481.323 | 1,255.617 | 27°47'12.86" | 82°32'26.75" |

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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
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JACKSONVILLE, FLORIDA

Inv. No. DACW17-32-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

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

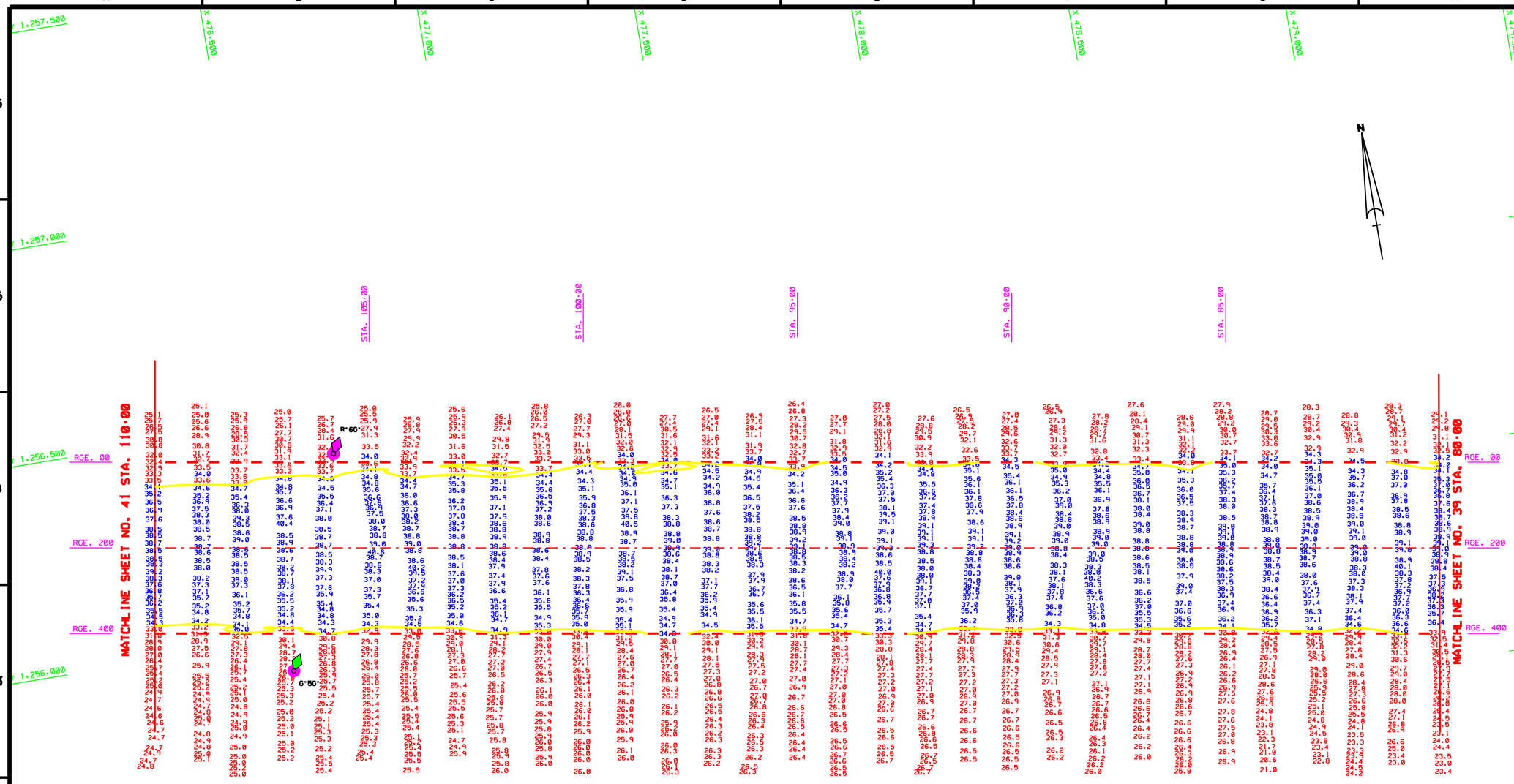
Date: MAY 2006
D.O.FILE NO.

File name: 06-102SH39.DGN
Reference files: BROR06.DGN, TAMPAHBR83.DGN, 06-102CTG.DGN, 06-102NAV.DGN, CONS4.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA. 50+00 THRU STA. 80+00 CUT-G
PLAN

DRAWING NO.
4/16

SHEET 39 OF 54




## CUT-G

AZ-99-29-11

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-5G (05/06) | 476,460 | 1,255,922 | 27°47'15.66" | 82°33'20.91" |
| LT. BUOY-6G (05/06) | 476,635 | 1,256,407 | 27°47'20.47" | 82°33'18.99" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

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

Date: MAY 2006
D.O.F.FILE NO.

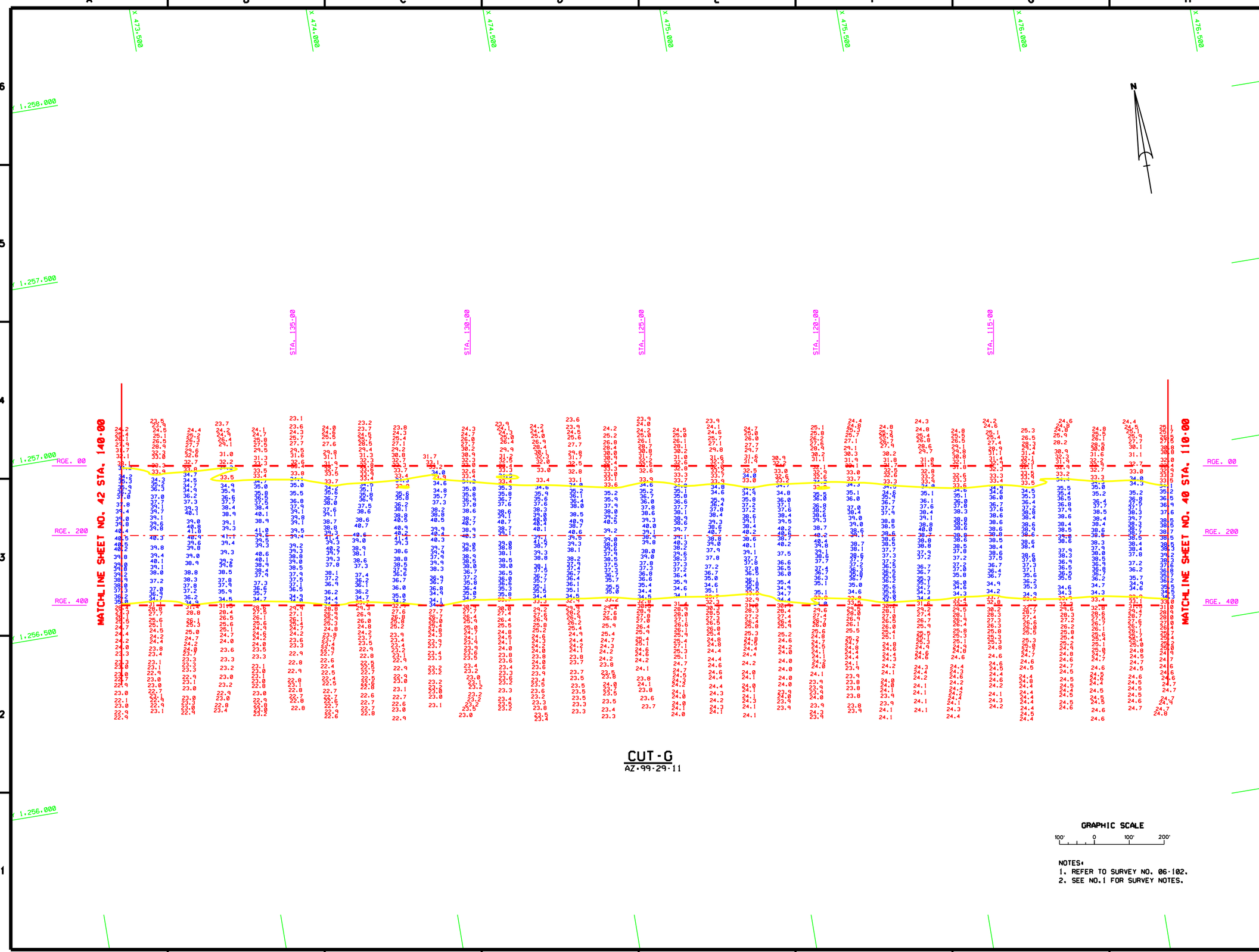
File name: 06-102SHH0.DGN, 06-102SHH1.DGN, 06-102SHH2.DGN, 06-102SHH3.DGN, CON34.DGN
Reference files: BKGRND.DGN, 06-102CTG.DGN, 06-102NAV.DGN, TAMPAHBR3.DGN

TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA. 80+00 THRU STA. 110+00 CUT-G
PLAN

DRAWING NO.
5/16

SHEET 40 OF 54




CUT-G
AZ-99-29-11

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
2. SEE 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

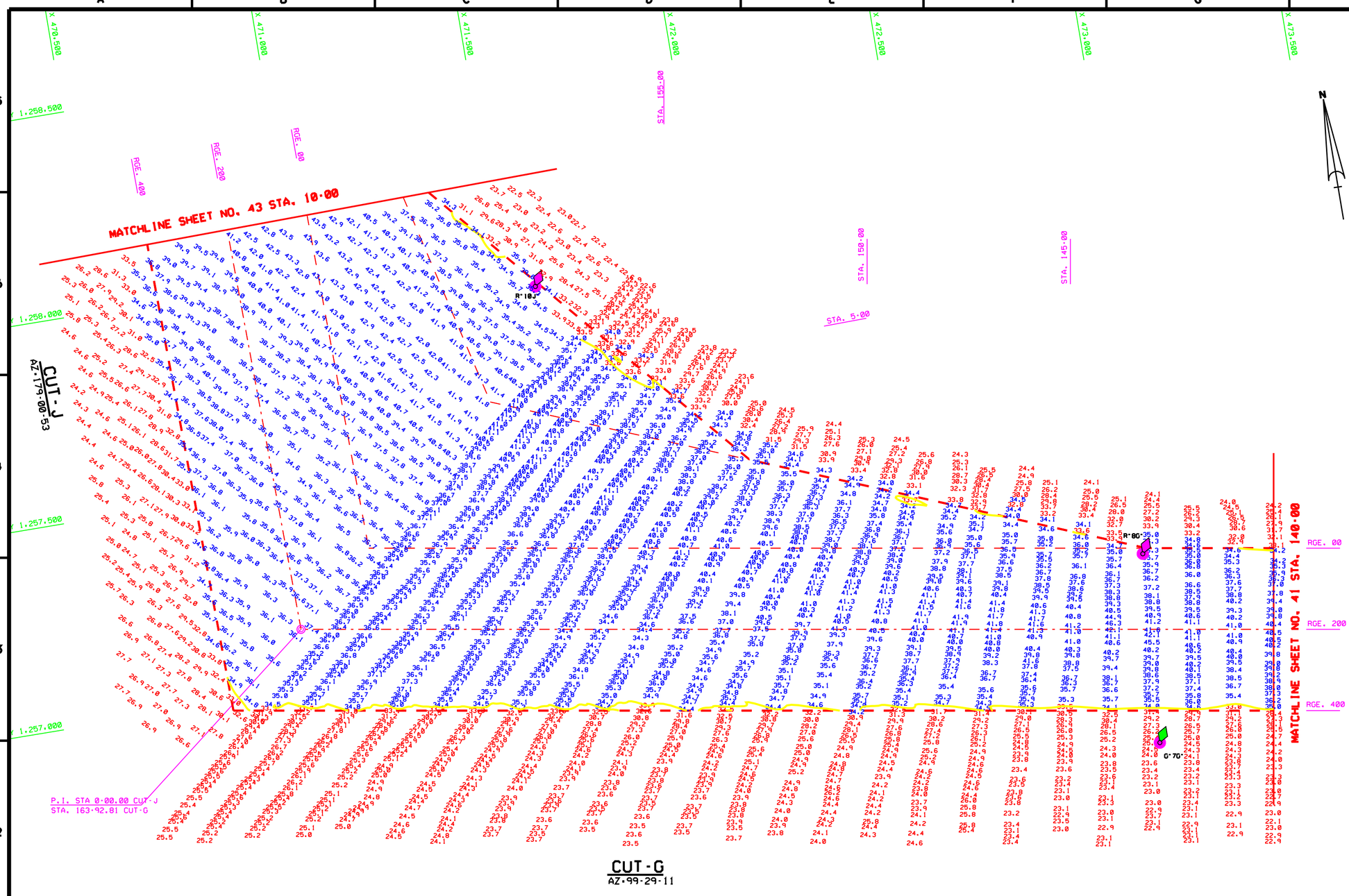
Inv. No. DACW17-XX-X-XXXX
Design by XXX
Drawn by XXX
Cad by XXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale XXX
Date MAY 2006
D.O. FILE NO.

File name 06-102SH41.DGN
Reference files 2B0098.DGN 06-102CTG.DGN TAMPAHBR83.DGN CON34.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA. 110+00 THRU STA. 140+00 CUT-G
PLAN

DRAWING NO.
6/16

SHEET 41 OF 54




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-7G (05/06) | 472.907 | 1.256.524 | 27°47'21.46" | 82°34'00.50" |
| LT. BUOY-8G (05/06) | 472.942 | 1.259.989 | 27°47'26.07" | 82°34'00.13" |
| LT. BUOY-10J (05/06 | 471.576 | 1.257.885 | 27°47'34.87" | 82°34'15.39" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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

Prev. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Pol date: XX XX XXXX
Pol scale: XXXX

Designed by: WRG
Dwn by: WRG
Ckd by:
Date: JUN 2006
D.O.FILE NO.

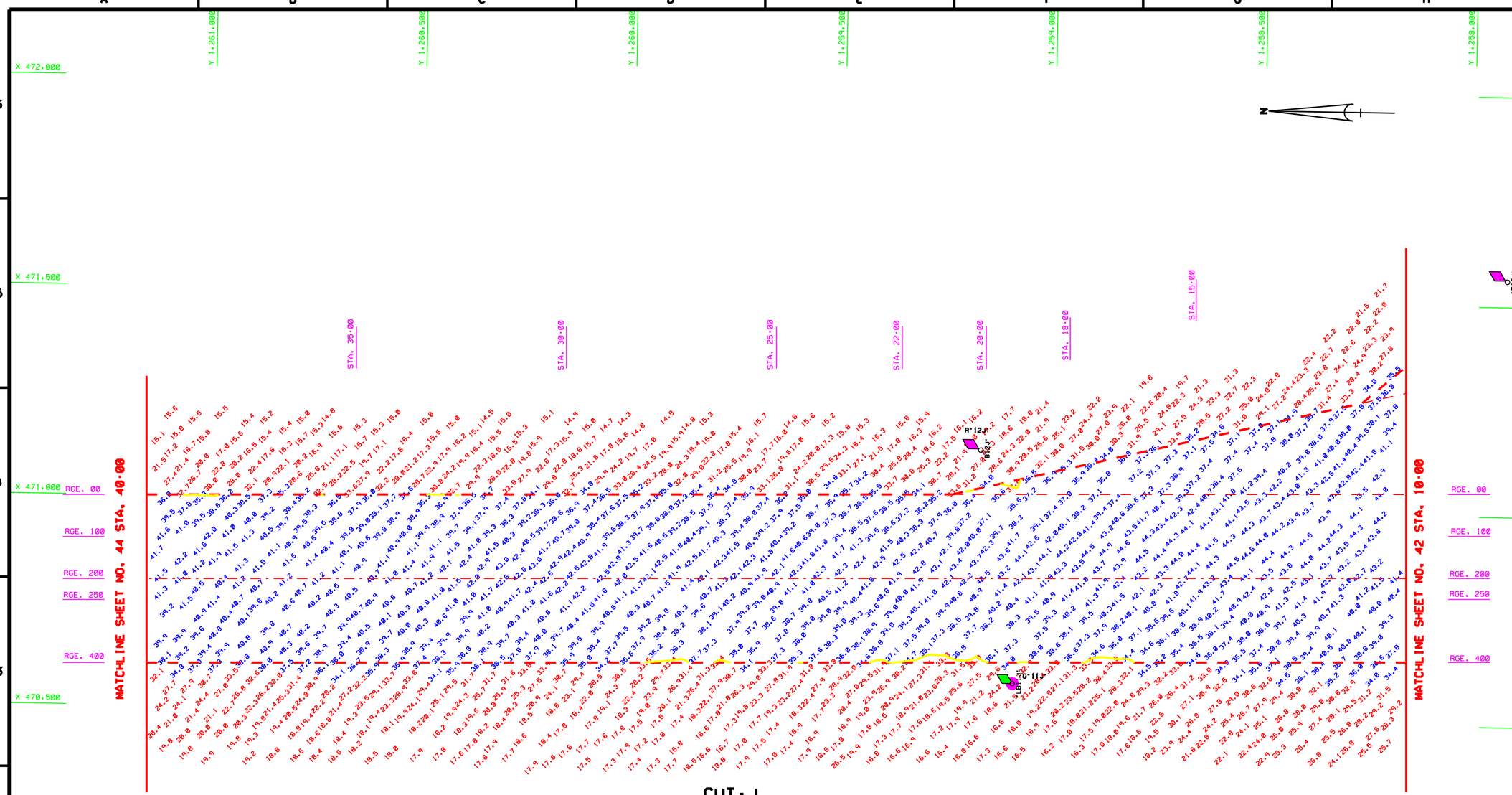
File name: 06-102SHL42.DGN
Reference files: BG0098.DGN, TAMPHB083.DGN, 06-102CTG.DGN, 06-102CTJ.DGN, 06-102MAV.DGN, CONSH.DGN

TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA. 140+00 CUT-G THRU STA. 10+00 CUT-J
PLAN

DRAWING NO.
7/16

SHEET 42 OF 54




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-11J (02/04) | 470.585 | 1,259.081 | 27°47'46.67" | 82°34'26.48" |
| LT-12J (02/04) | 471.140 | 1,259.165 | 27°47'47.53" | 82°34'20.32" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: WRG
Dwn by: WRG
Ckd by: WRG
Date: JUN 2006
D.O. FILE NO.

File name: 06-102SH4.DGN
Reference files: BIOSEB.DGN T-MAPHER.DGN 06-102NAV.DGN 06-102CT.DGN CONS4.DGN FDOTNAV.DGN

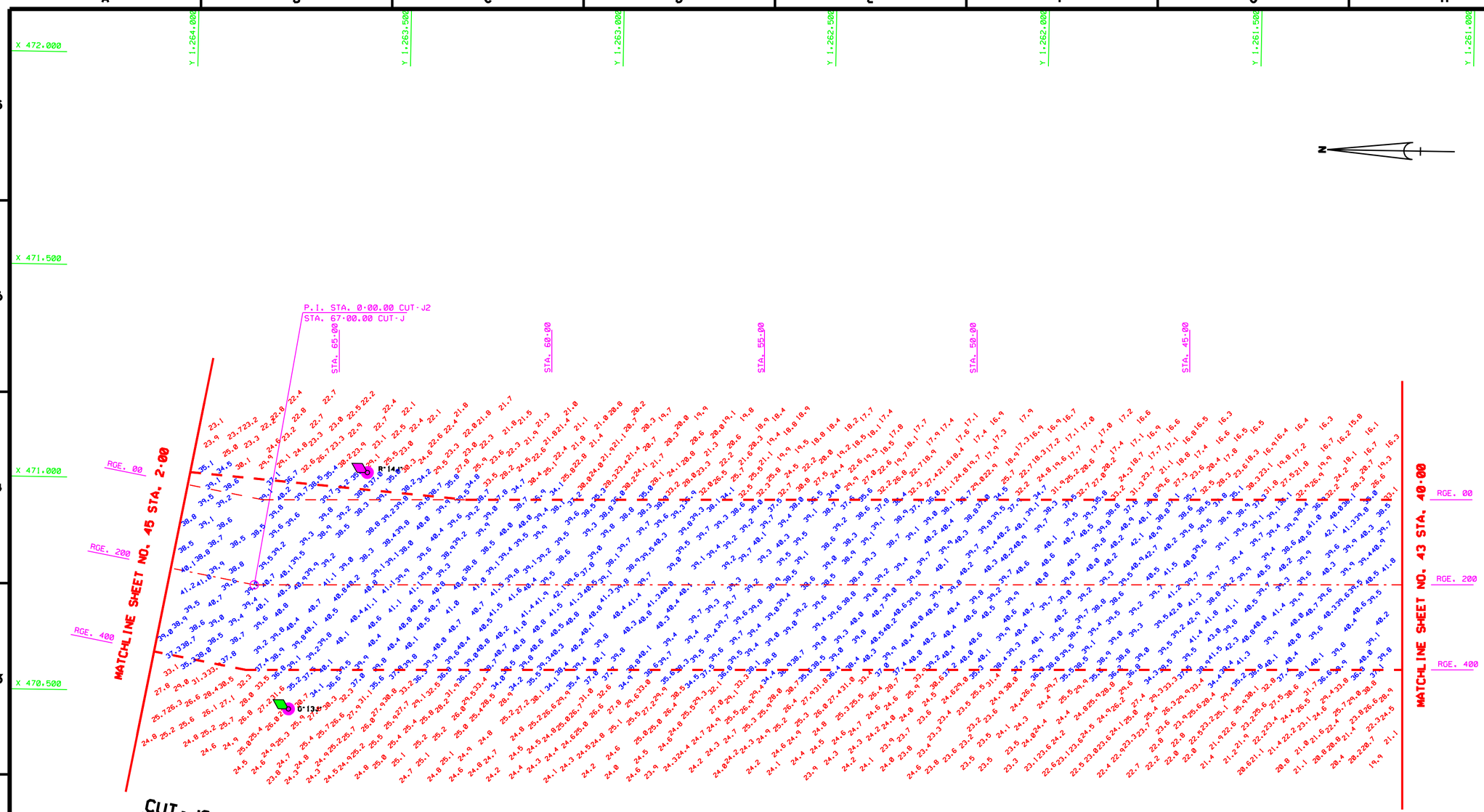
TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT

STA. 10+00 THRU STA. 40+00 CUT-J
PLAN

DRAWING NO.
8/16

SHEET 43 OF 54




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-13J (02/04) | 470.463 | 1,263.761 | 27°48'33.01" | 82°34'28.09" |
| LT. BUOY-14J (02/04) | 471.022 | 1,263.585 | 27°48'31.29" | 82°34'21.85" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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: ERG
Dwn by: ERG
Ckd by: ERG

Dated: JUN 2006
D.O. FILE NO.

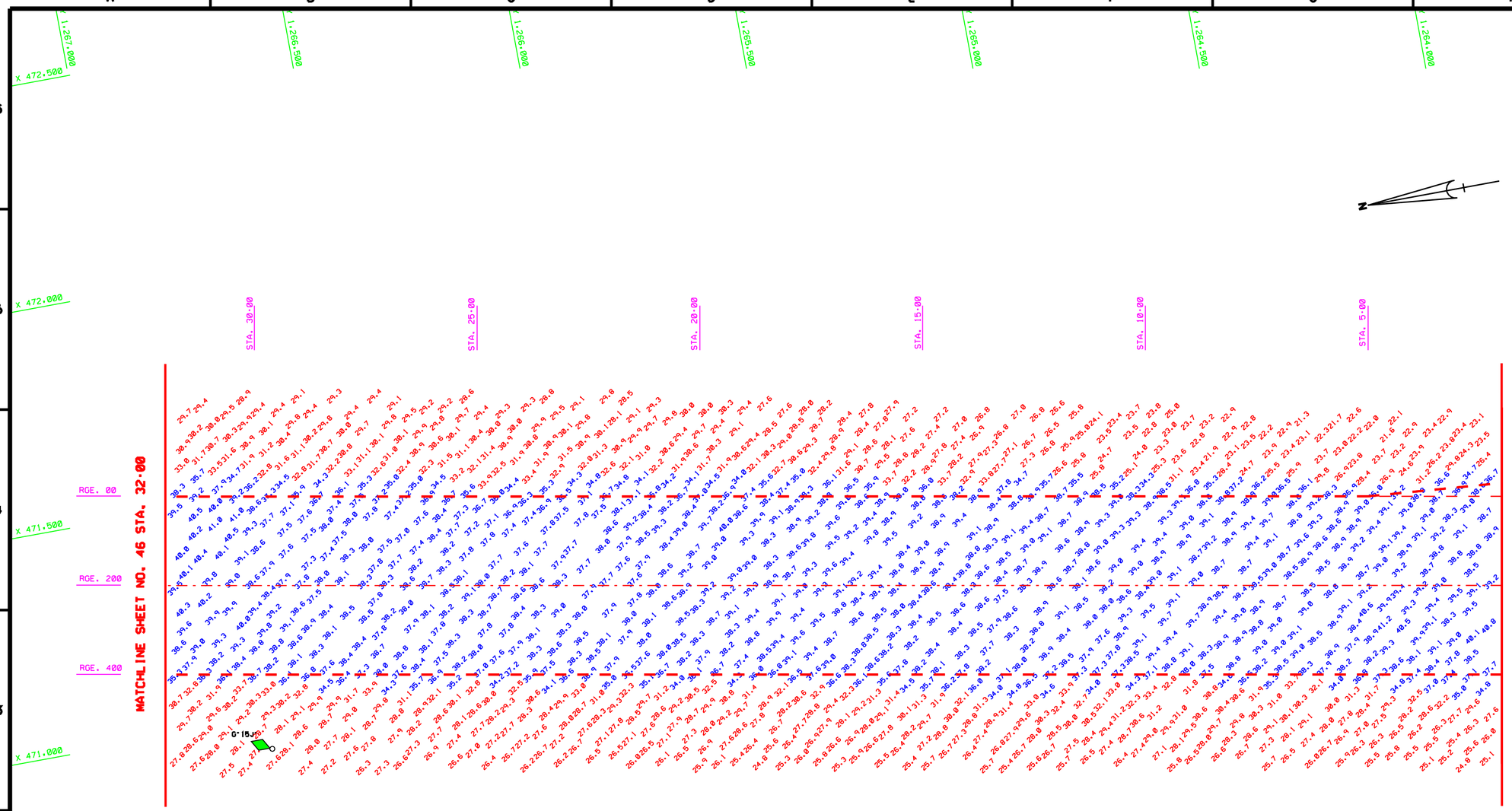
File name: 06-102SH44.DGN
Reference files: 000000.DGN
T-MAP-NAV06.DGN
06-102C1J.DGN
06-102C1J2.DGN
FOOTNAV.DGN

TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41, & 43-FOOT PROJECT
STA. 40+00 CUT-J THRU STA. 2+00 CUT-J2
PLAN

DRAWING NO.
9/16

SHEET 44 OF 54




## CUT - J2

AZ-190-26-59

| AID TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| BUOY-15J (02/04) | 470,930 | 1,266,823 | 27°49'03.35" | 82°34'23.05" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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. 06-107-06-0.XXX
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: STRU
Dwn by: STRU
Ckd by: STRU
Date: JAN 2006
D.O. FILE NO.

File name: 06-102SH45.DGN
Reference files: BROPSB.DGN, TAMPAHGR83.DGN, 06-102CT.J2.DGN, FOOTMAK.DGN

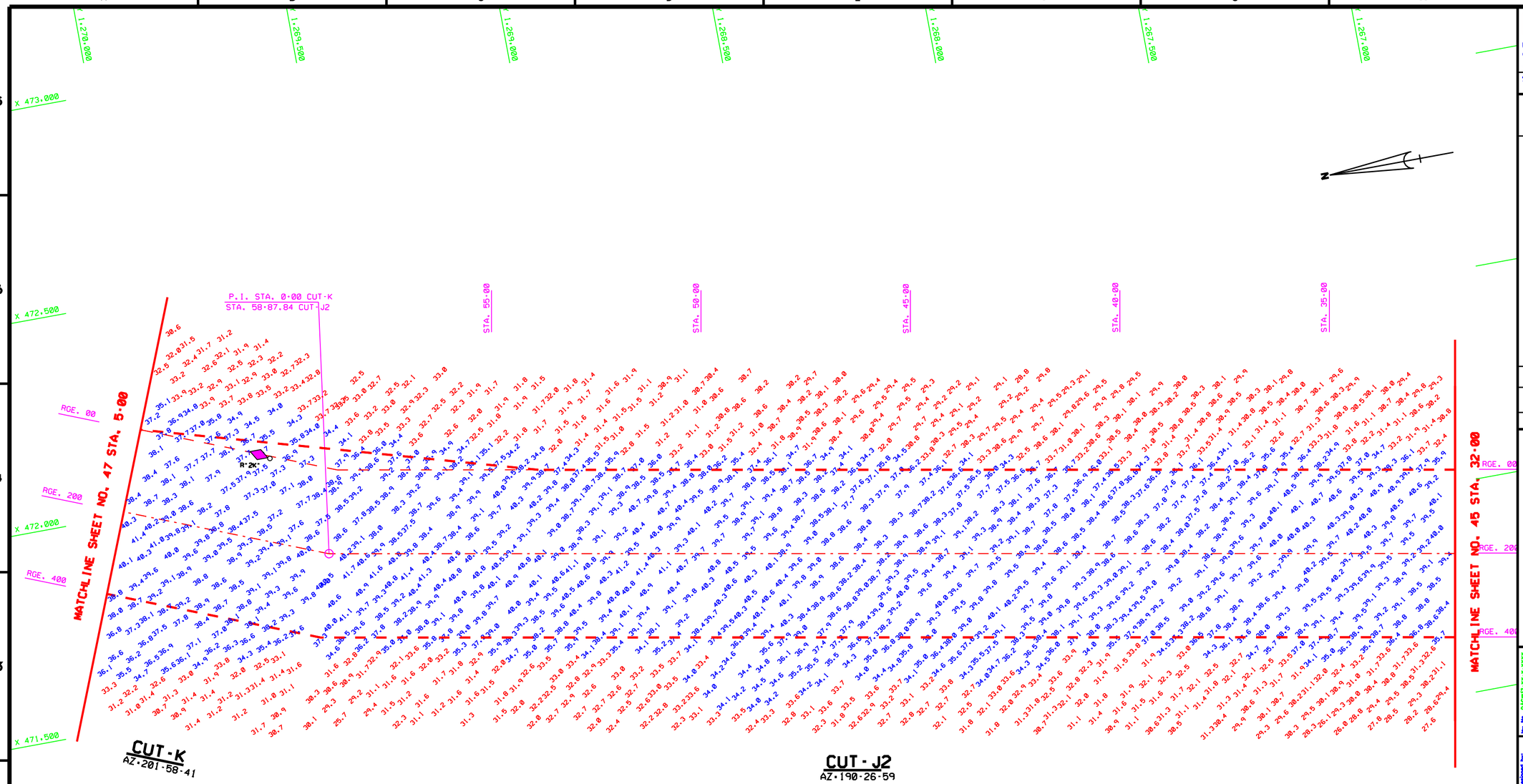
TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT

STA.2-00 THRU STA.32-00 CUT-J2
PLAN

DRAWING NO.
10/16

SHEET 45 OF 54




| AID TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| BUOY-2K (02/04) | 472,071 | 1,269,734 | 27°49'32.22" | 82°34'10.50" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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: XXXX

Designed by: WRN
Dwn by: WRN
Ckd by: JMW
Date: JUN 2006
D.O. FILE NO.

File name: 06-102SH46.DGN
Reference files: BRDRSB.DGN
T:\MAP\HBRB3.DGN
06-102CTK.DGN
06-102CTJ2.DGN
FOOTNAV.DGN

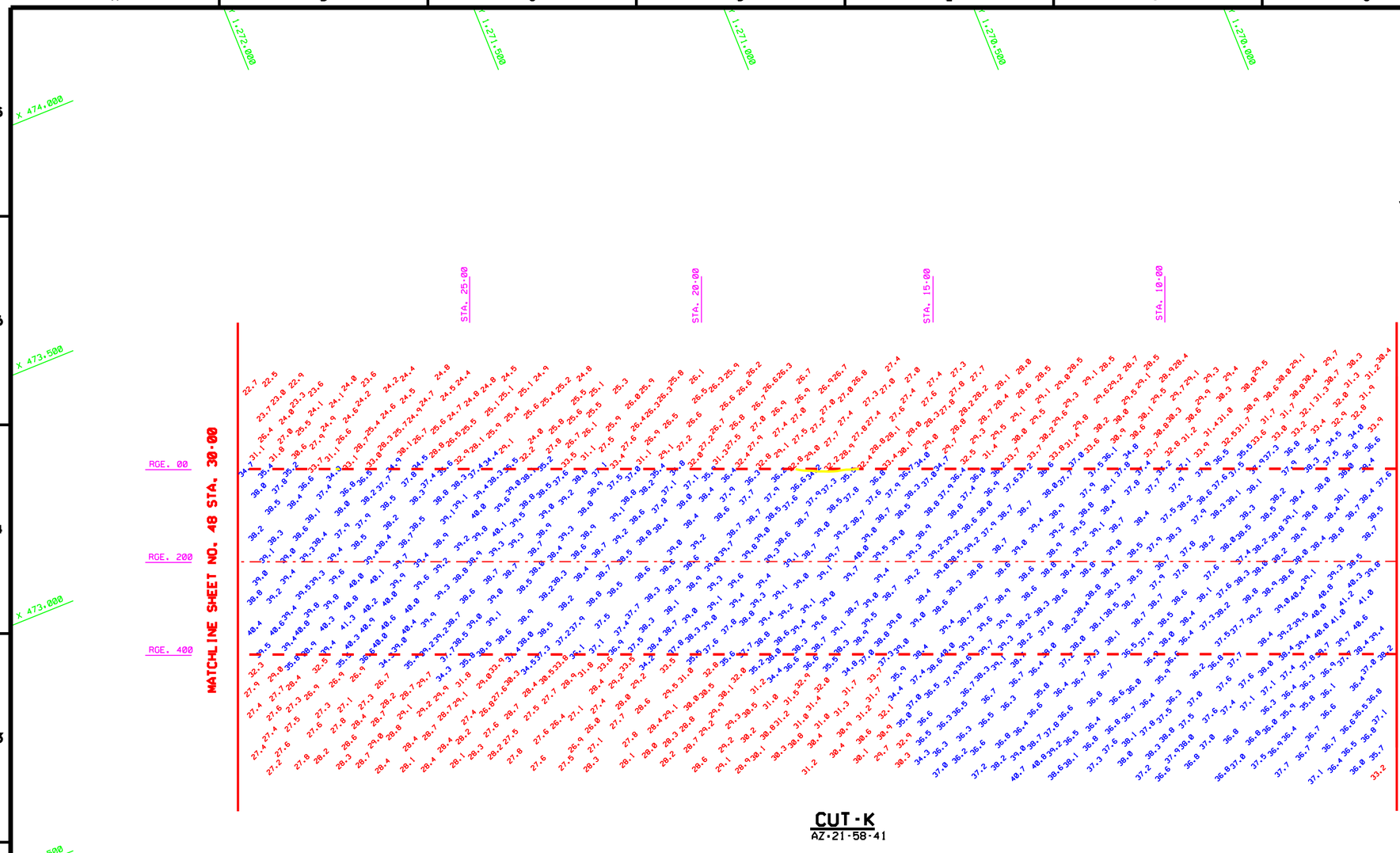
TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT

STA. 32+00 CUT-J2 THRU STA. 5+00 CUT-K
PLAN

DRAWING NO.
11/16

SHEET 46 OF 54




GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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

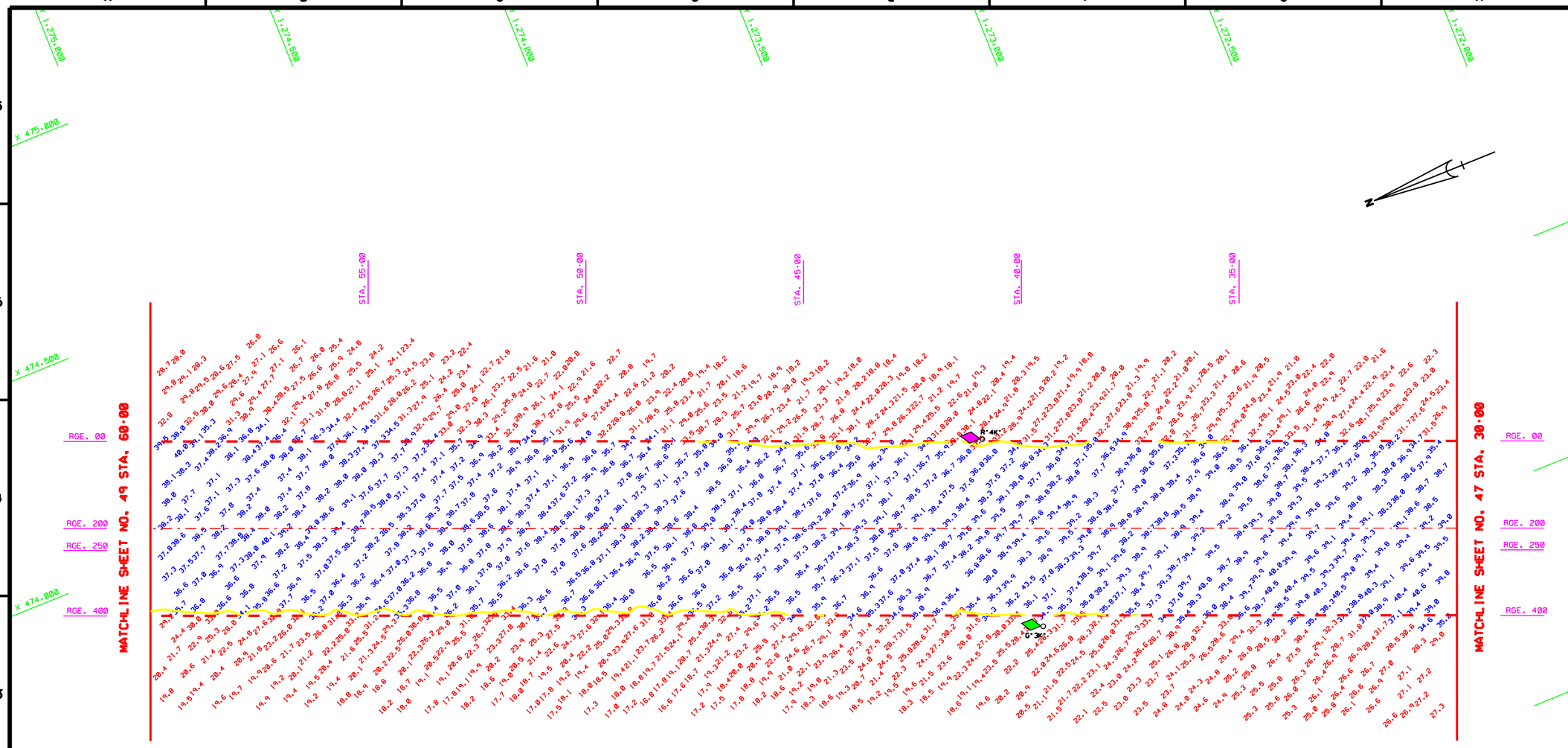
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

Designed by: WRD
Dwn by: WRD
Ckd by: WRD
Date: JUN 2006
D.O.FILE NO.

File name:
06-102SHT7.DGN
Reference files:
SBOPRB.DGN
TAMPAHBR3.DGN
06-102CTK.DGN
CON54.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA.5+00 THRU STA.30+00 CUT-K
PLAN

DRAWING NO.
12/16
SHEET 47 OF 54




## CUT-K

AZ-21-58-41

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| BUOY-3K (02/04) | 473.091 | 1,273.383 | 27°50'08.41" | 82°33'59.32" |
| BUOY-4K (02/04) | 473.542 | 1,273.353 | 27°50'08.12" | 82°33'54.30" |
| FT LT. CJ-2 (02/04) | 472.211 | 1,274.471 | 27°50'19.16" | 82°34'03.60" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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: BRW
Dwn by: BRW
Ckd by: BRW

Dated: JUN 2006
D.O.FILE NO.

File name:
06-102SH48.DGN
Reference files:
BSDRG8.DGN
TAMPAHB83.DGN
06-102CTK.DGN
CON34.DGN
FGDNAV.DGN

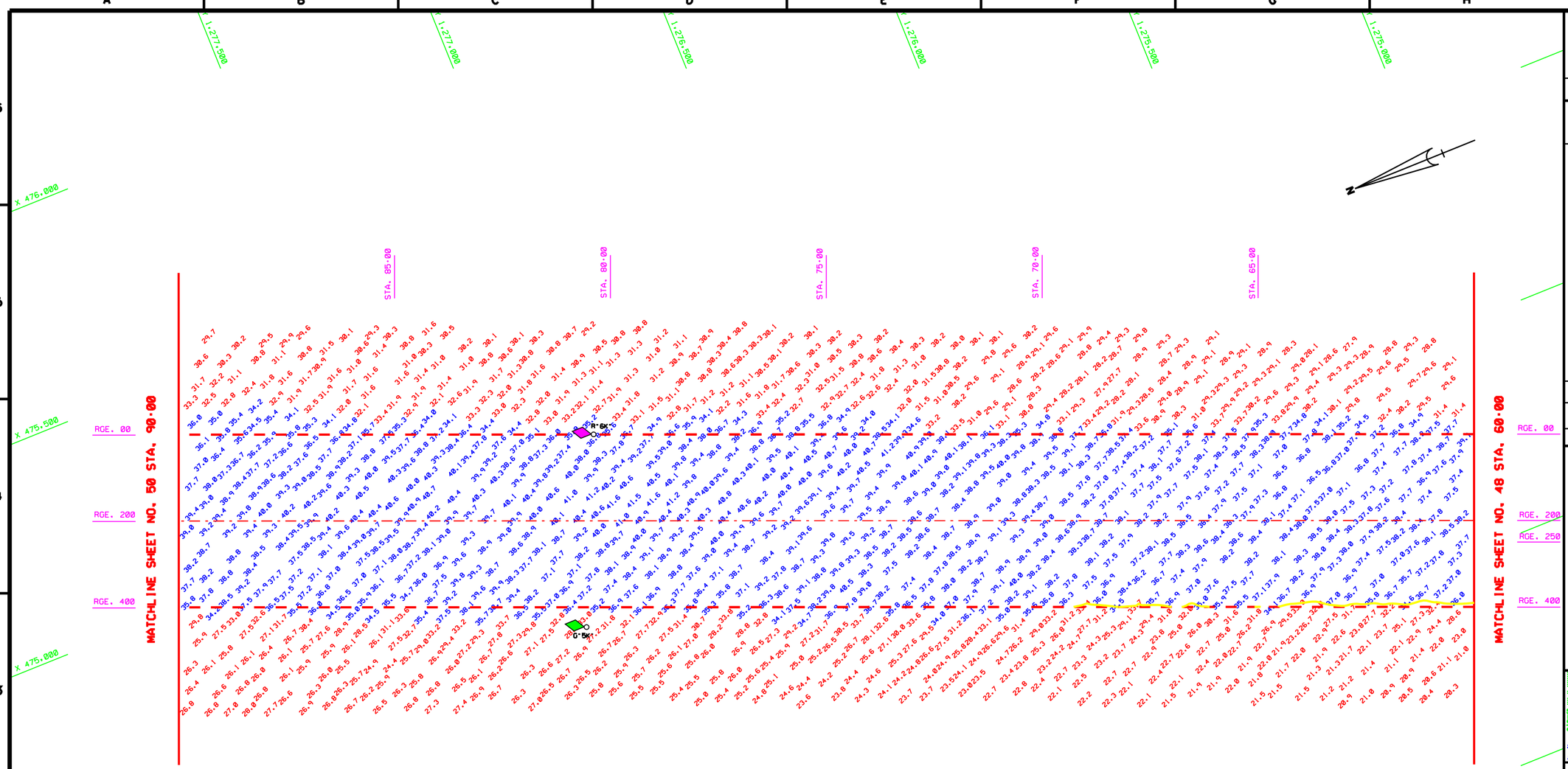
TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT

STA. 30+00 THRU 60+00 CUT-K
PLAN

DRAWING NO.
13/16

SHEET 48 OF 54




## CUT-K

AZ-21-58-41

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| BUOY-5K (02/04) | 474,608 | 1,227,199 | 27°50'46.26" | 82°33'42.62" |
| BUOY-6K (02/04) | 475,016 | 1,277,016 | 27°50'44.47" | 82°33'38.06" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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: WRG
Dwn by: BRG
Ckd by: WRG
Date: JUN 2006
D.O. FILE NO.

File name: 06-102SH49.DGN
Reference files: BROR98.DGN, TAMPAHGR83.DGN, 06-102CTK.DGN, CON54.DGN, FOOTMAV.DGN

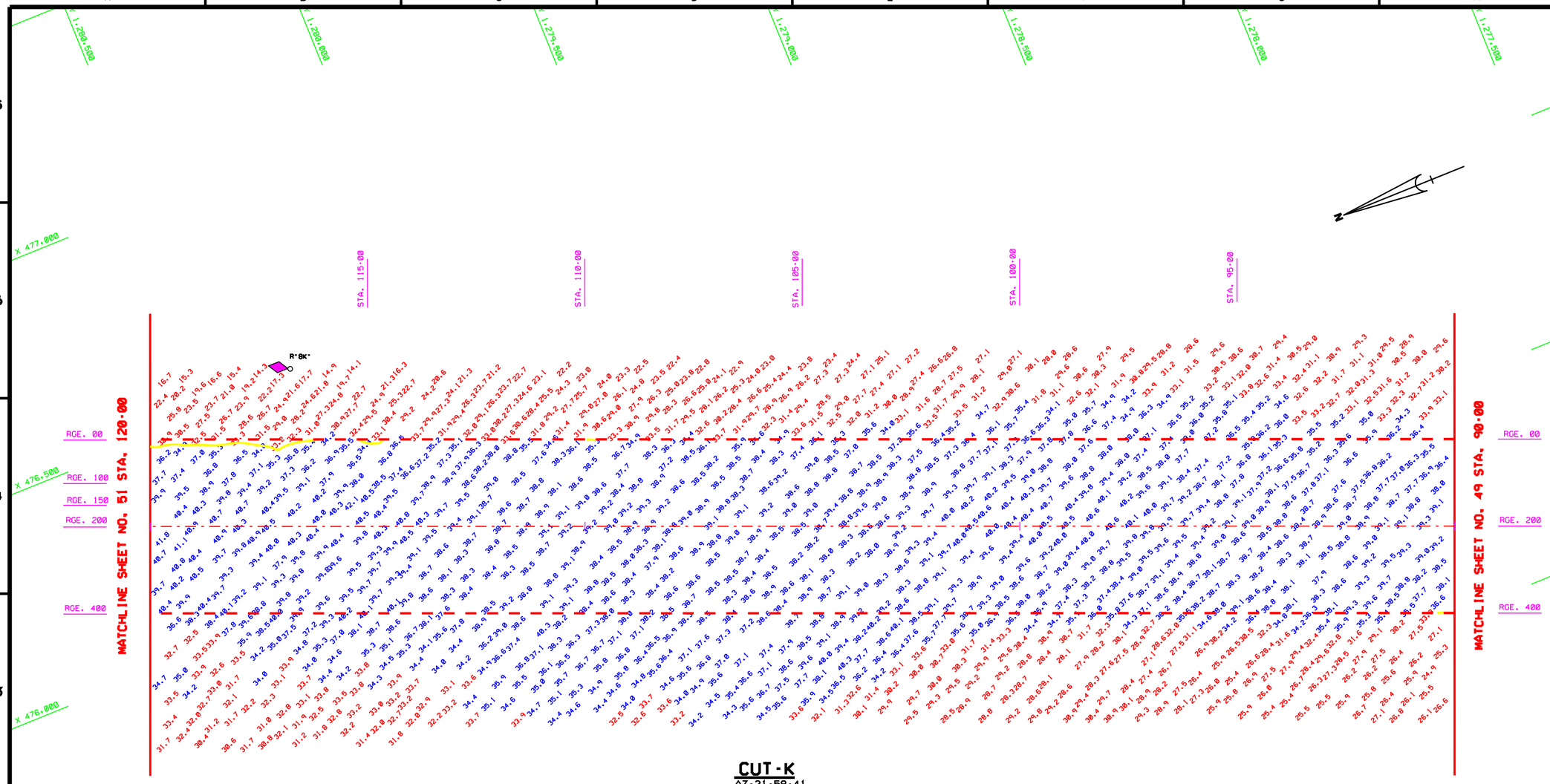
TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41, 43-FOOT PROJECT

STA. 60+00 THRU STA. 90+00 CUT-K
PLAN

DRAWING NO.
14/16

SHEET 49 OF 54




| AID TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| BUOY-BK (02/04) | 476,528 | 1,280,330 | 27°51'17.35" | 82°33'21.38" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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: CDM
Dwn by: CDM
Ckd by: CDM

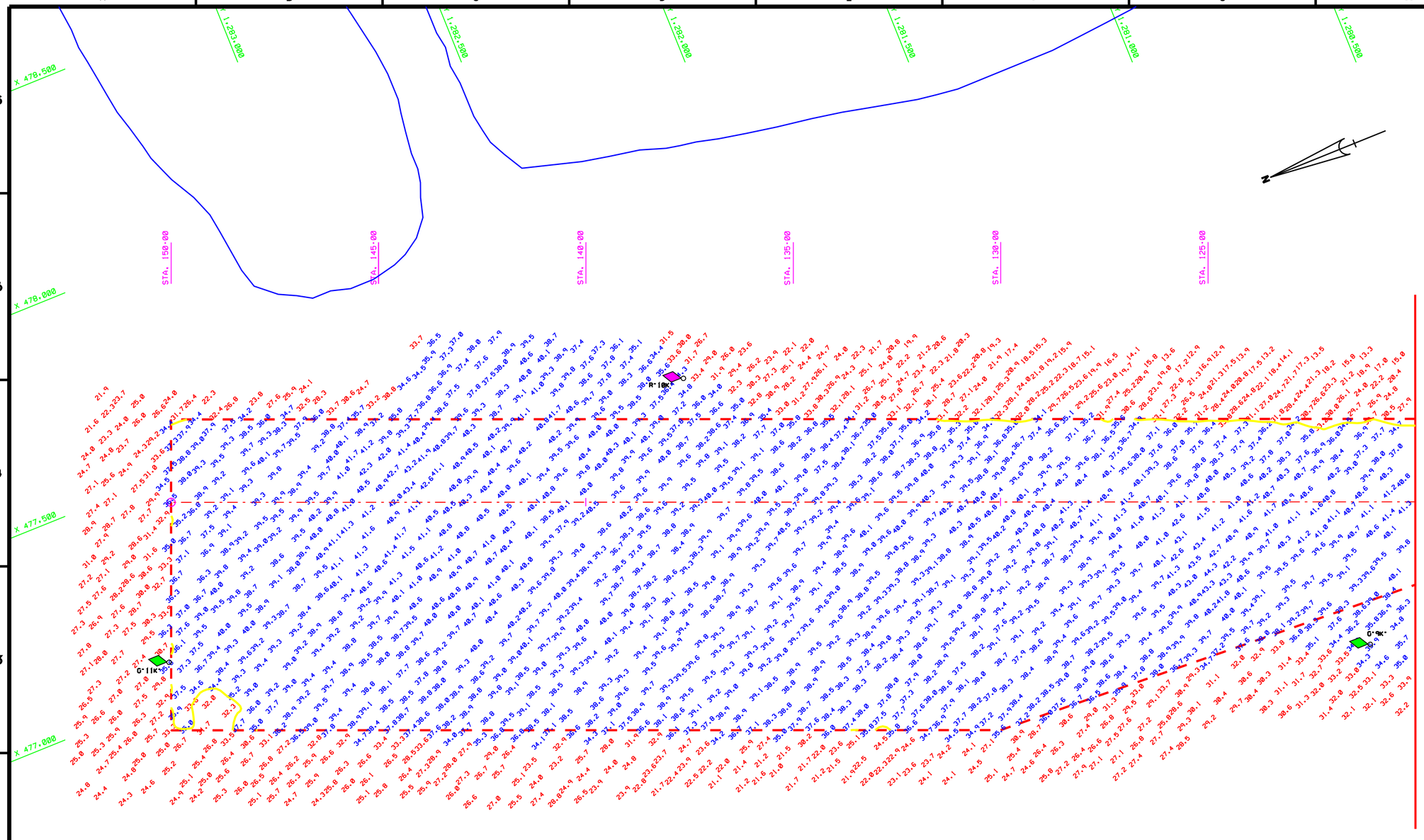
Dated: JUN 2006
D.O.F.ILE NO.

File name: 06-102SHEET.DGN
Reference files: BROPOS.DGN
TAMPAHARBR3.DGN
06-102CTK.DGN
CONS4.DGN
FOONAV.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 90-00 THRU STA. 120-00 CUT-K
PLAN

DRAWING NO.
15/16

SHEET 50 OF 54




## CUT-K

AZ=21-58-41

| AIDS TO NAVIGATION | PLANE COORDINATES X | PLANE COORDINATES Y | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| BUOY-9K (02/04) | 476.034 | 1,280.994 | 27°51'23.90" | 82°33'26.92" |
| BUOY-10K (02/04) | 477.249 | 1,282.289 | 27°51'37.78" | 82°33'13.45" |
| BUOY-11K (02/04) | 477.079 | 1,283.695 | 27°51'50.69" | 82°33'15.41" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 06-102.
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
Datum: XX XXX XXXX
Scale: AS SHOWN
Pnt date: XX XX XXXX
Pnt scale: XXX

Designed by: FRG
Dwn by: FRG
Chd by: FRG

Date: JAN 2006
D.O.F.ILE NO.

File name: 06-102SHEET.DGN
Reference files: BRIDGE.DGN, TAMPAHBR83.DGN, TPASHORE83.DGN, 06-102CTK.DGN, CONSA.DGN, FOGMAN.DGN

TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
12, 34, 41 & 43-FOOT PROJECT
STA. 120+00 THRU STA. 150+00 CUT-K
PLAN

DRAWING NO.
16/16

SHEET 51 OF 54