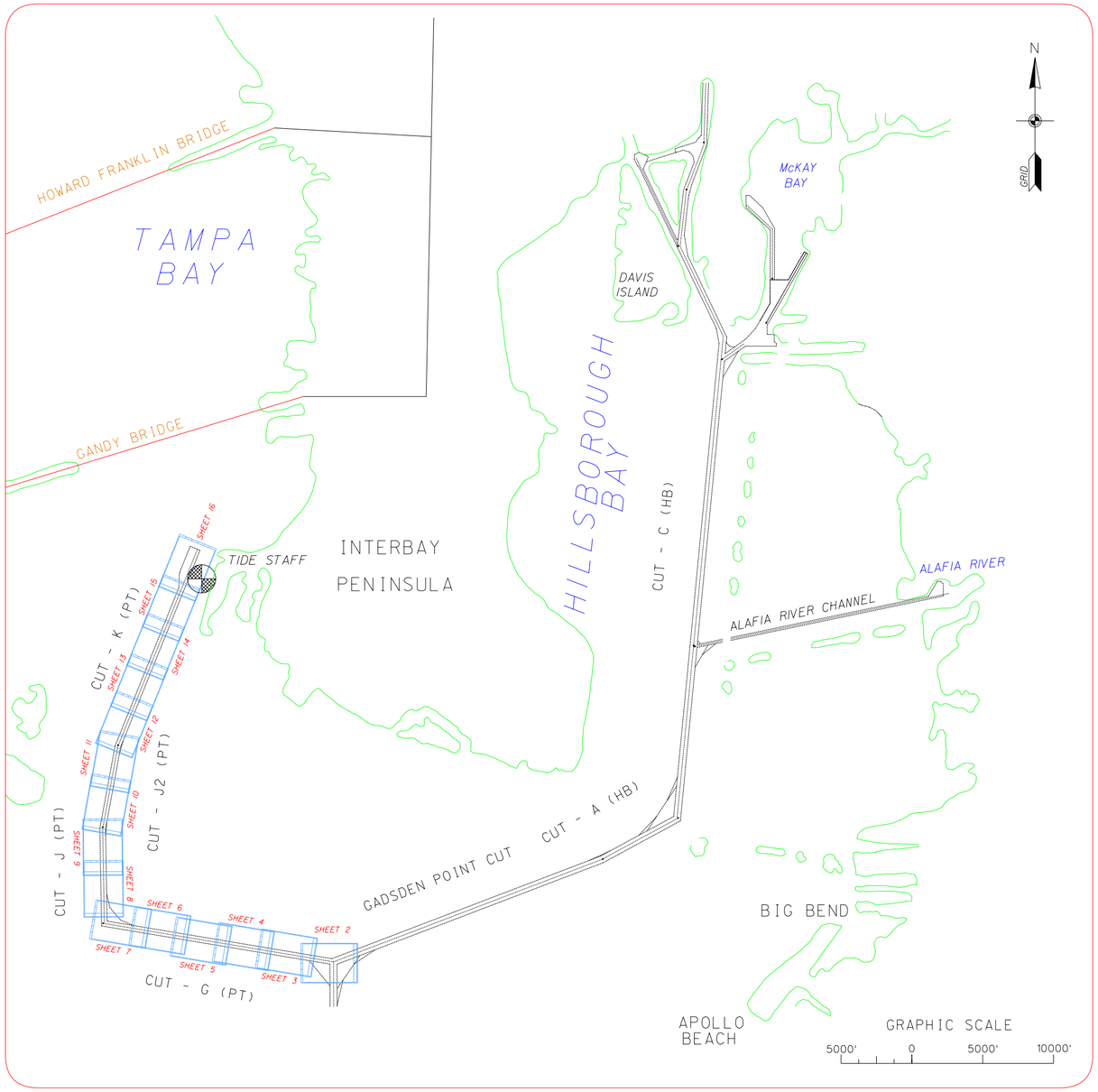
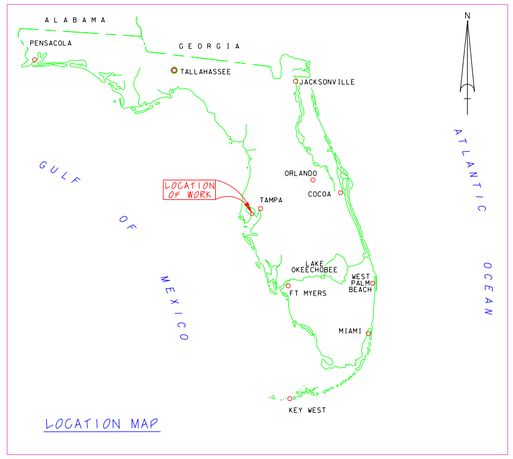




TAMPA HARBOR, FLORIDA
PORT TAMPA CUTS J-K
PROJECT CONDITION SURVEY

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

SURVEY NOTES:

1. REFER TO SURVEY NO. 02-111.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW).
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A MEASURE DOWN POINT AT PICNIC ISLAND BOAT RAMP IN THE VICINITY OF AND REFERENCED FROM BENCHMARK "NOS 6607A, 1991".
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 200KHZ (HIGH FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
WB-34	4-5 APR 2002	CUT-G, J, J2 & K

9. AIDS TO NAVIGATION WERE 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.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

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: WRM
Dwn by: WRM
Ckd by: WRM

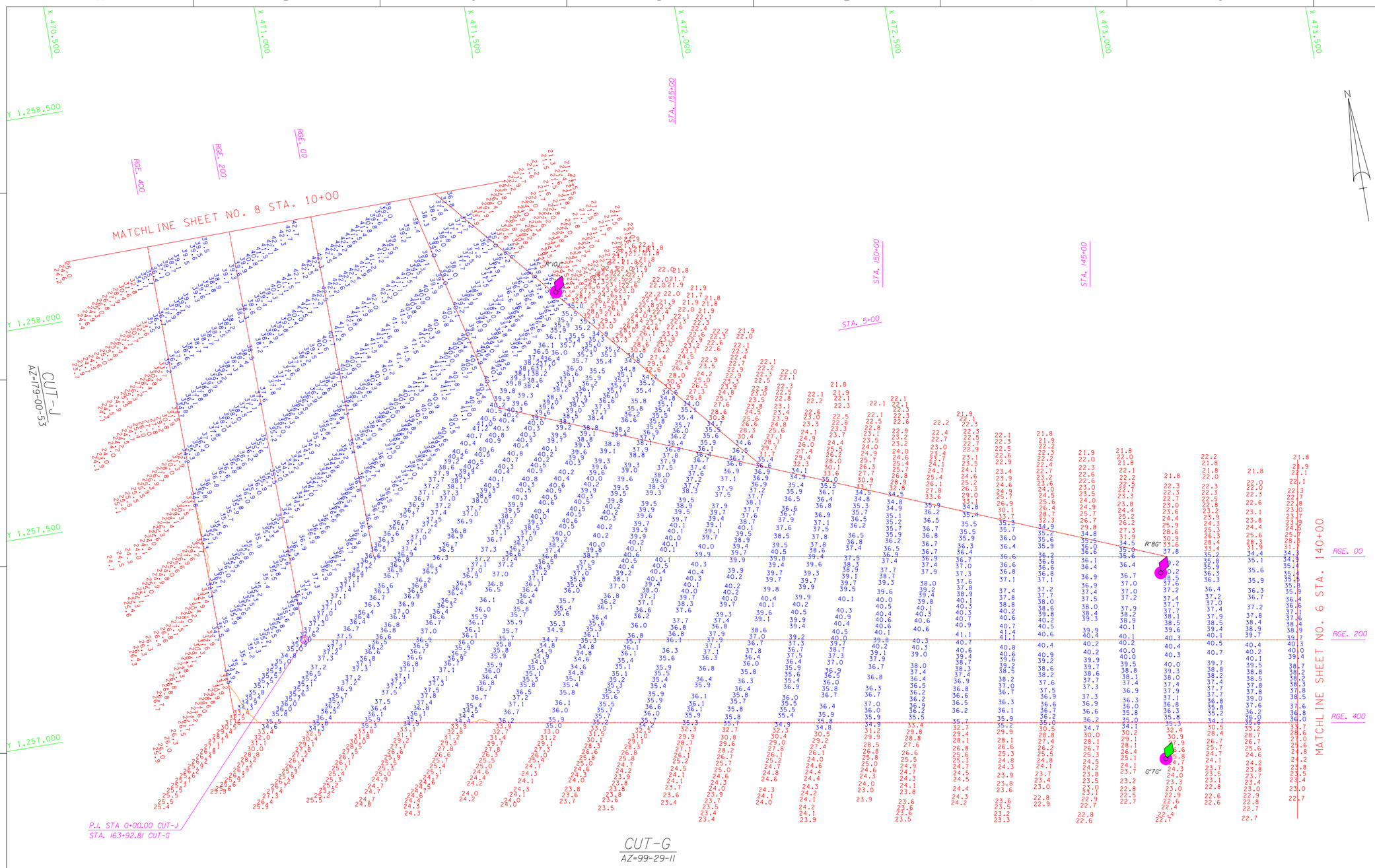
Dated: APR 2002
D.O. FILE NO.

File name: D11SHO1.DGN
Reference files: BRDR98.DGN NEWFLMAP.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
CUT-J THRU CUT-K
PORT TAMPA
COVER

DRAWING NO.
1/12

SHEET 1 OF 17



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7G (4/02)	472,869	1,256,522	27°47'21.44"	82°34'00.93"
LT. BUOY-8G (4/02)	472,930	1,256,966	27°47'25.84"	82°34'00.26"
LT. BUOY-10J (4/02)	471,604	1,257,874	27°47'34.77"	82°34'15.08"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 02-111.
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: WRM
Cad by: WRM
Dwn by: WRM
Dated: APR 2002
D.O.FILE NO.

File name: D1TS167.DGN
Reference files: BRDR98.DGN T-AMPABR83.DGN T-AMPABR1.DGN D1TS17.DGN D1TS17.DGN D1TNAV.DGN CON34.DGN

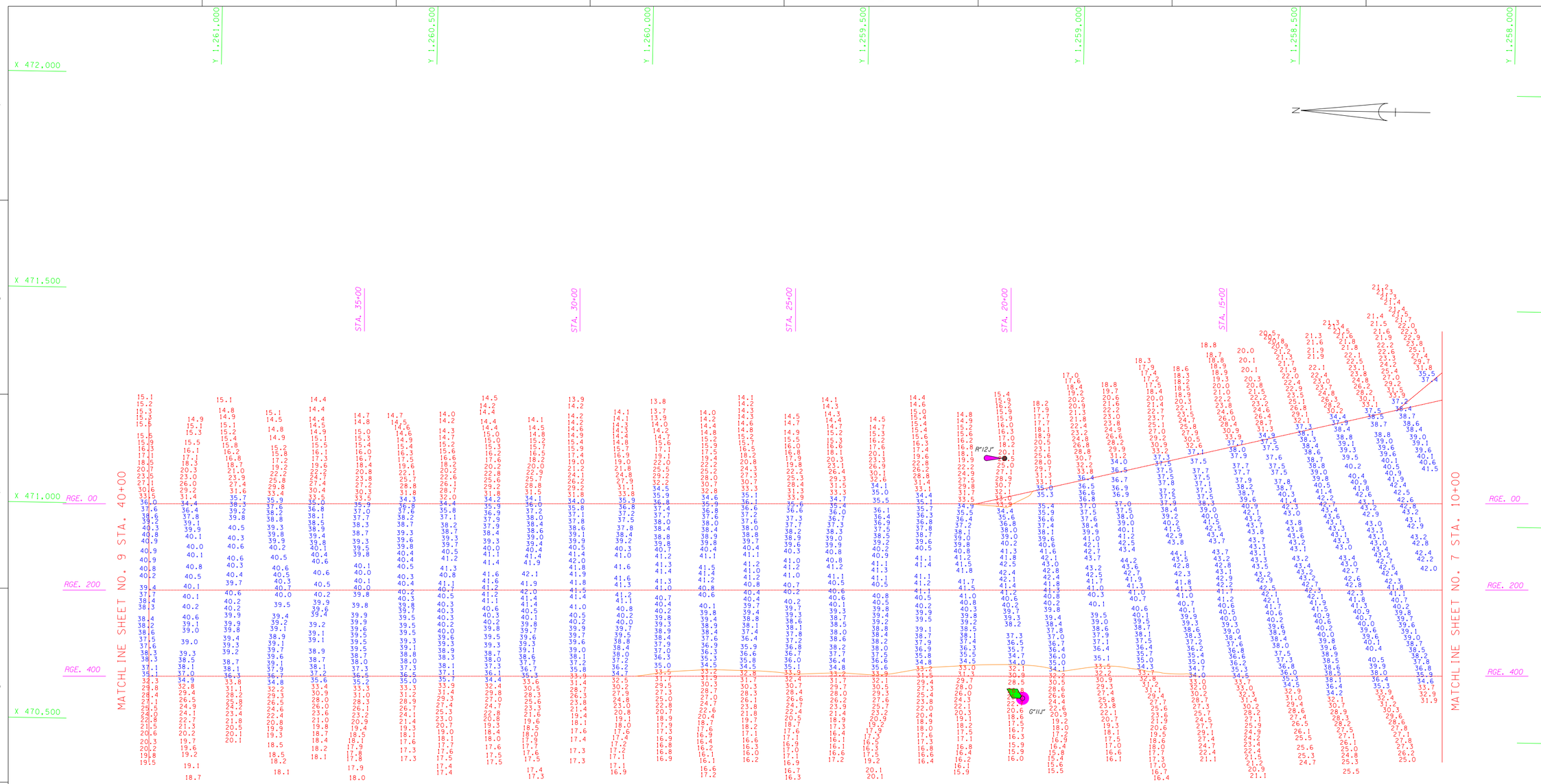
TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
34-FOOT PROJECT

STA. 140+00 CUT-G THRU STA. 10+00 CUT-J
PLAN

DRAWING NO.
2/12

SHEET 7 OF 17



CUT-J
AZ=179-00-53

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-11J (4/02)	470,584	1,259,116	27°47'47.02"	82°34'26.50"
LT-12J (4/02)	471,137	1,259,162	27°47'47.51"	82°34'20.35"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 02-111.
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
Plot date: XX XX XXXX
Scale: AS SHOWN
Plot scale: X.X

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

Dated: APR 2002
D.O.FILE NO.

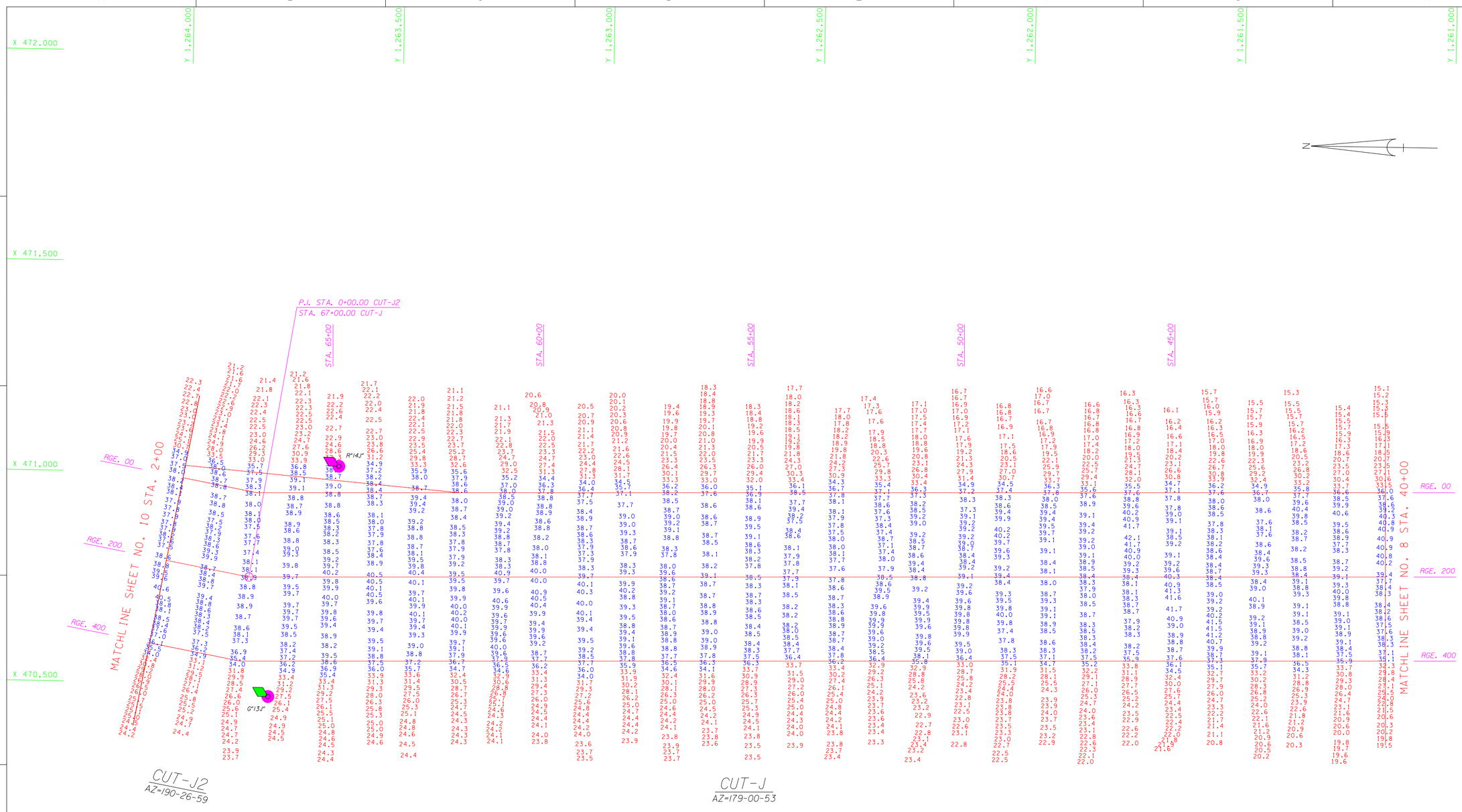
File name: CT-TSP18.DGN
Reference files: BRDG98.DGN TAMPABRB3.DGN DTIINAV.DGN DTIINT.DGN CON34.DGN

TAMPA HARBOR, FLORIDA

PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 10+00 THRU STA. 40+00 CUT-J
PLAN

DRAWING NO.
3/12

SHEET 8 OF 17



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-13J (4/02)	470,470	1,263,796	27°48'33.36"	82°34'28.01"
LT. BUOY-14J (4/02)	471,020	1,263,637	27°48'31.81"	82°34'21.88"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 02-111.
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: WRM
Dwn by: WRM
Ckd by: WRM

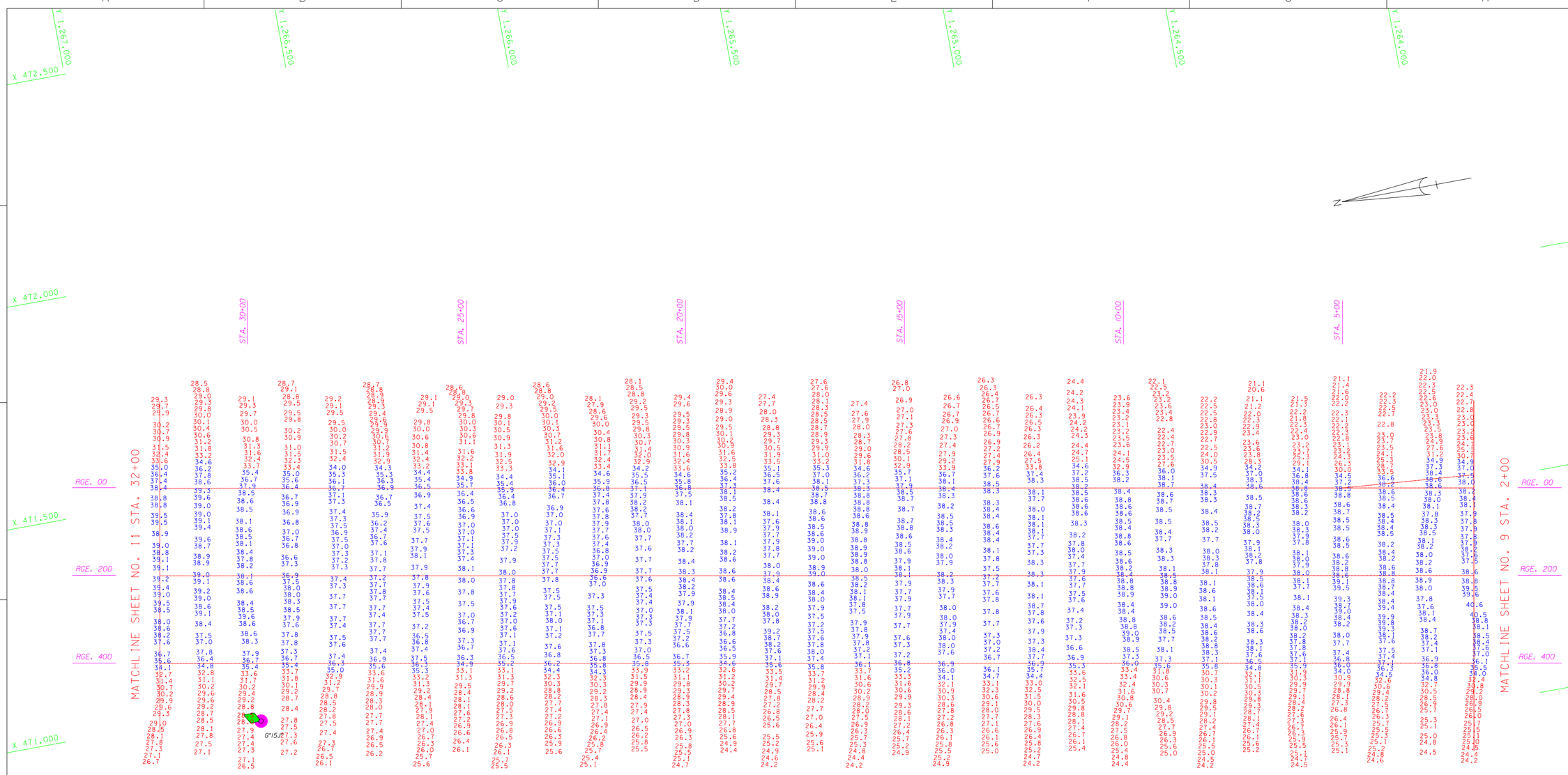
Dated: APR 2002
D.O.FILE NO.

File name: D111SH09.DGN
Reference files: BRDR98.DGN TAMPAHBR83.DGN D111CTJ.DGN D111CTJ2.DGN D111NAV.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 40+00 CUT-J THRU STA. 2+00 CUT-J2
PLAN

DRAWING NO.
4/12

SHEET 9 OF 17



CUT-J2
AZ=190-26-59

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-15J (4/02)	470,966	1,266,826	27°49'03.38"	82°34'22.65"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 02-111.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

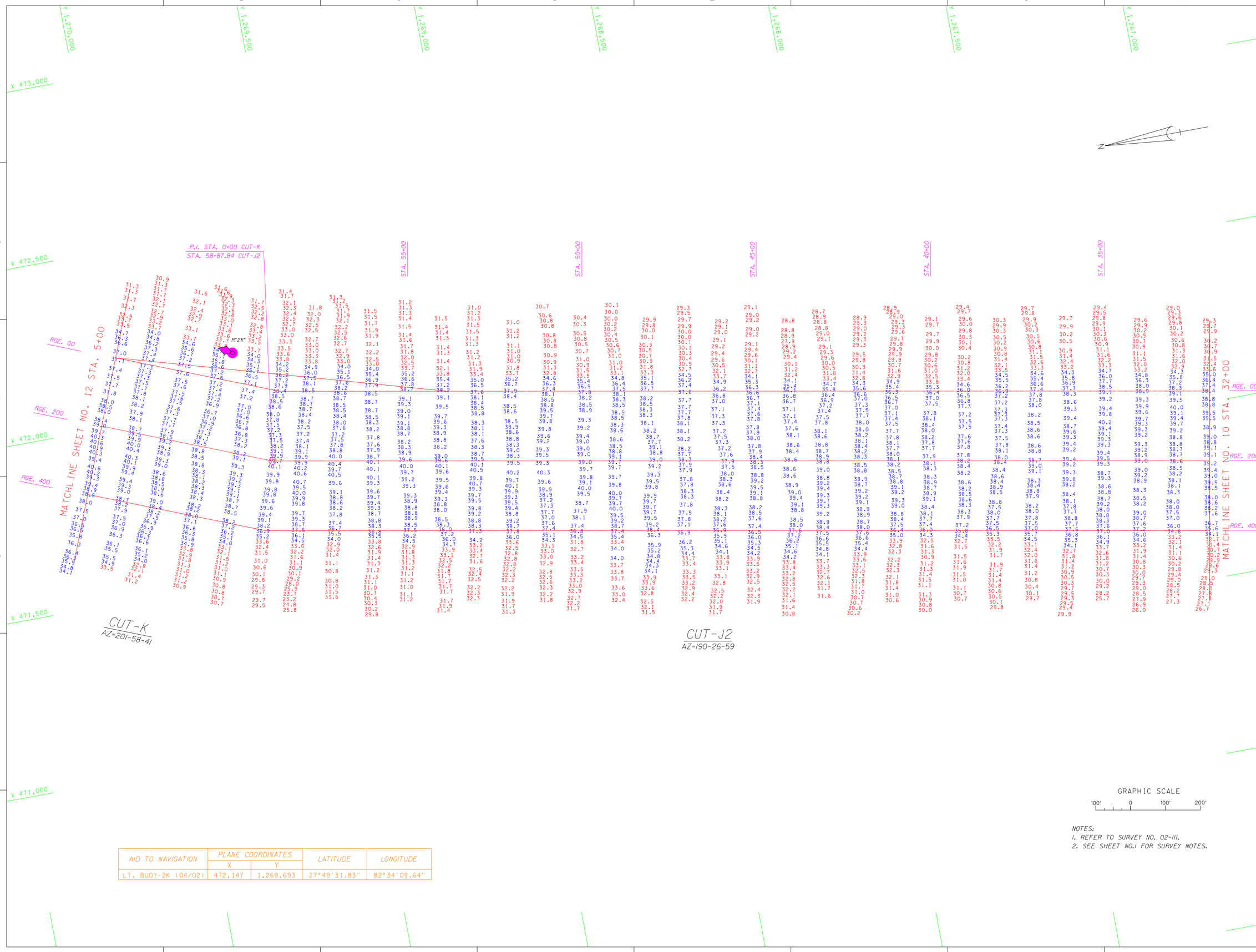
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Designed by: WRM
Dwn by: WRM
Ckd by: WRM
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Dated: APR 2002
D.O.FILE NO.

File name: D11SHIO.DGN
Reference files: BRDR98.DGN TAMPAHBR83.DGN D11NAV.DGN D11CTJ2.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 2+00 THRU STA. 32+00 CUT-J2
PLAN

DRAWING NO.
5/12
SHEET 10 OF 17



NOTES:
1. REFER TO SURVEY NO. 02-111.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2K (04/02)	472,147	1,269,693	27°49'31.83"	82°34'09.64"

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

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

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

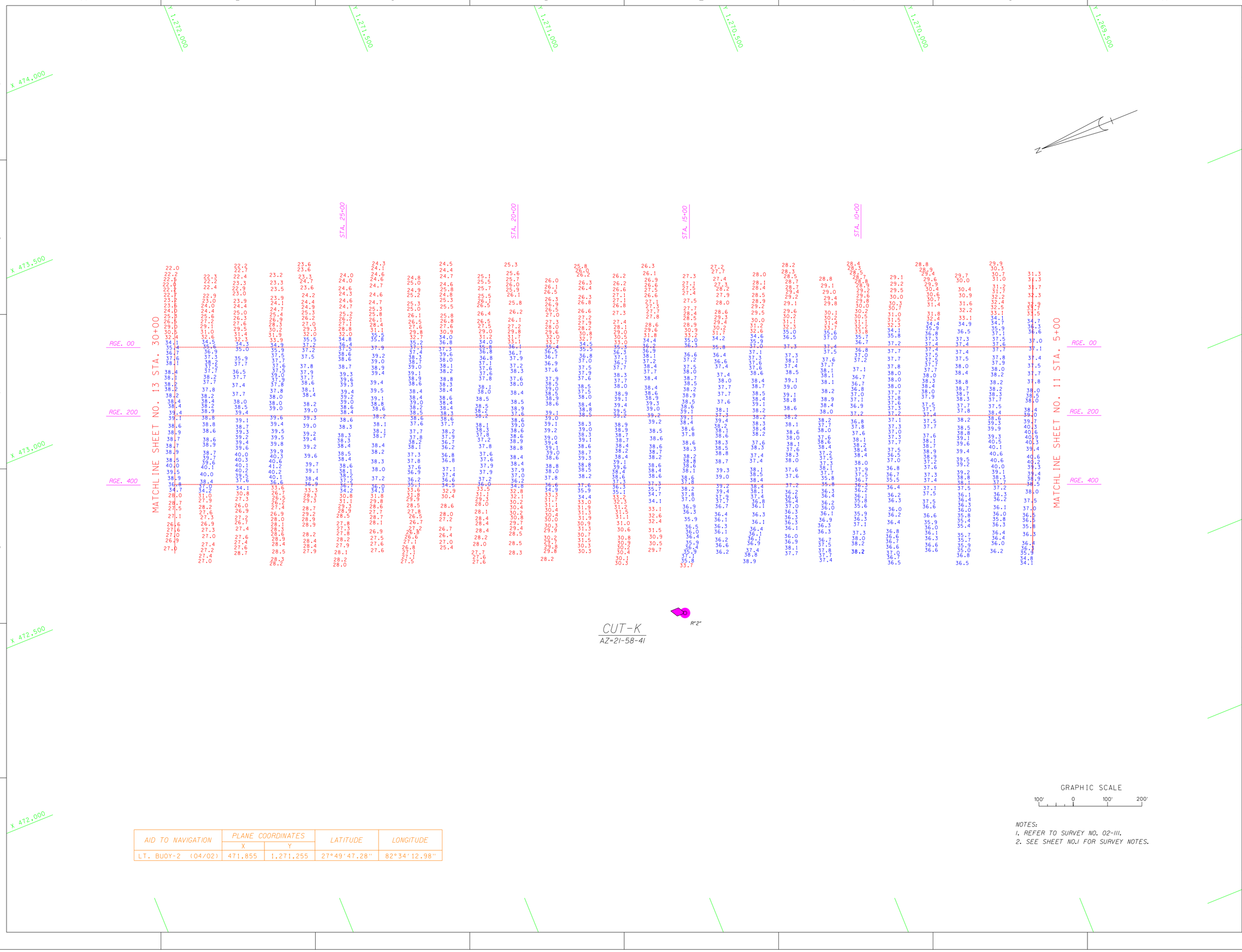
Dated: APR 2002
D.O.FILE NO.

File name: D11SH11.DGN
Reference files: BRDR98.DGN TAMPAHBR83.DGN D11CTJ2.DGN D11CTK.DGN D11NAV.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 32+00 CUT-J2 THRU STA. 5+00 CUT-K
PLAN

DRAWING NO.
6/12

SHEET 11 OF 17



AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (04/02)	471,855	1,271,255	27°49'47.28"	82°34'12.98"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 02-111.
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

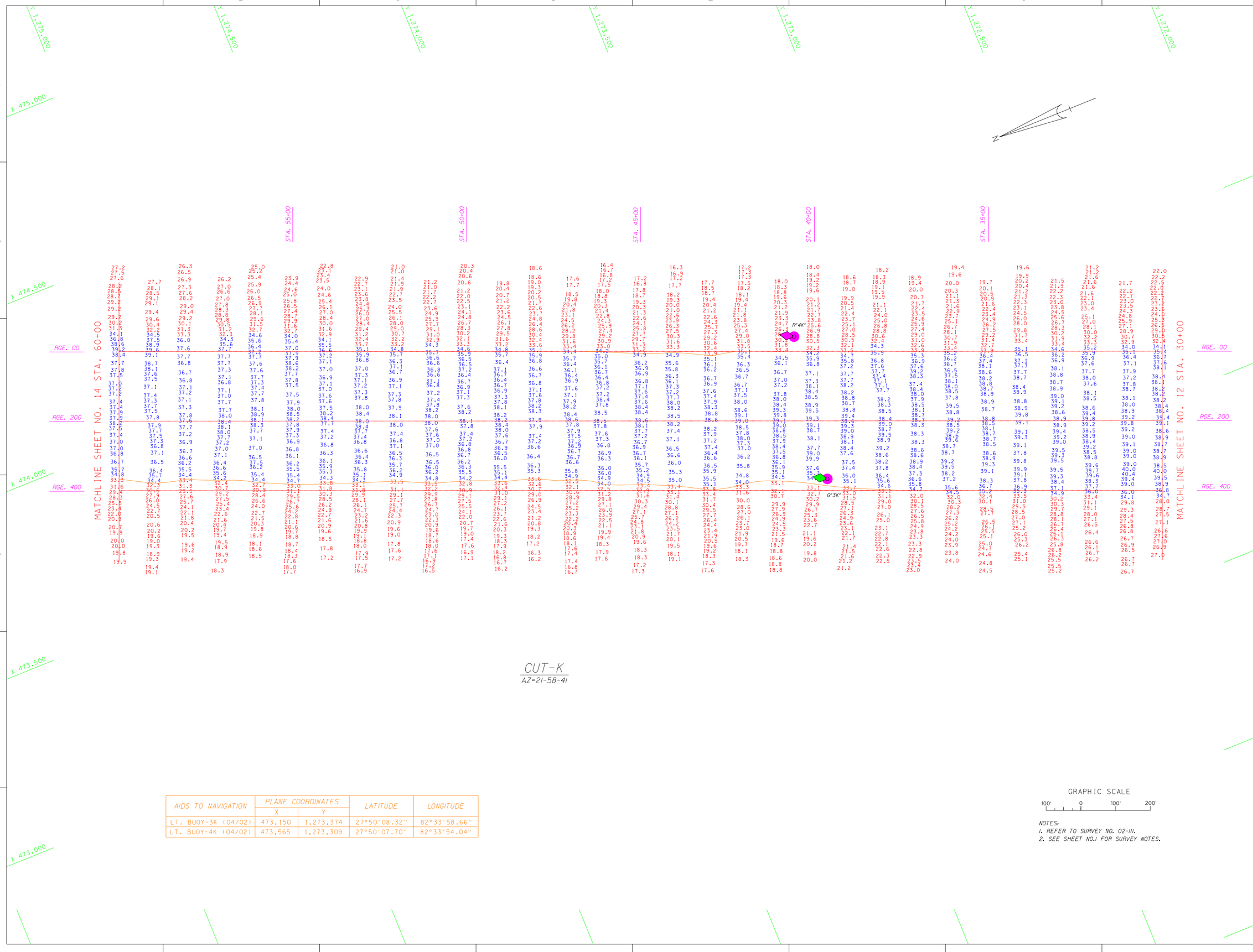
Designed by: WRM
Dwn by: WRM
Ckd by: WRM

Dated: APR 2002
D.O.FILE NO.

File name: DTISP12.DGN
Reference files: BRDR98.DGN, TAMPAHBR83.DGN, DTNCTK.DGN, DTNNAV.DGN

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

DRAWING NO.
7/12
SHEET 12 OF 17



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3K (04/02)	473,150	1,273,374	27°50'08.32"	82°33'58.66"
LT. BUOY-4K (04/02)	473,565	1,273,309	27°50'07.70"	82°33'54.04"

NOTES:
1. REFER TO SURVEY NO. 02-111.
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: WRM
Dwn by: WRM
Ckd by: WRM

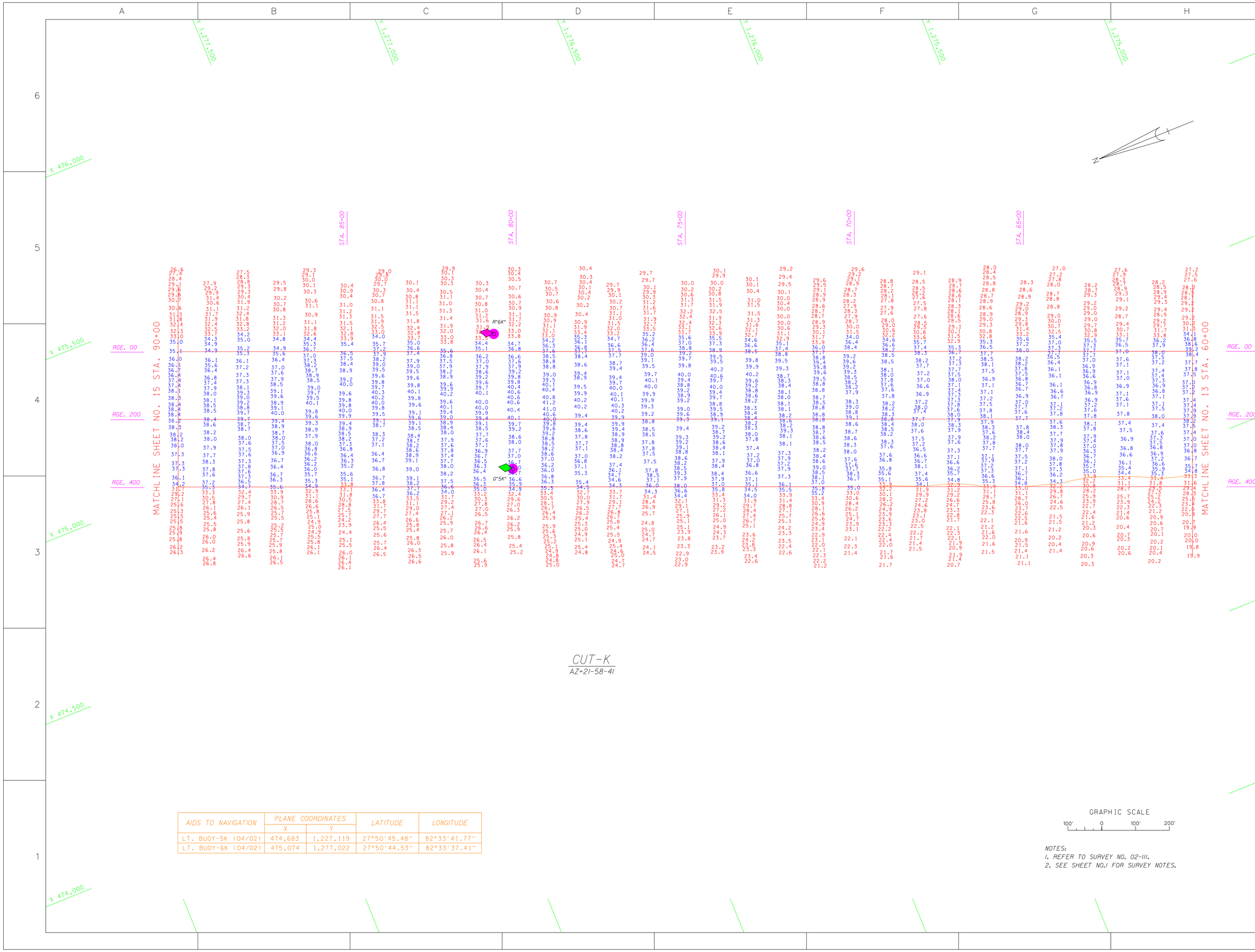
Dated: APR 2002
D.O.FILE NO.

File name: D11SH13.DGN
Reference files: BRDR98.DGN TAMPAHBR83.DGN D11CTK.DGN D11NAV.DGN CON34.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 30+00 THRU 60+00 CUT-K
PLAN

DRAWING NO.
8/12

SHEET 13 OF 17



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5K (04/02)	474,683	1,227,119	27°50'45.48"	82°33'41.77"
LT. BUOY-6K (04/02)	475,074	1,277,022	27°50'44.53"	82°33'37.41"

NOTES:
1. REFER TO SURVEY NO. 02-111.
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

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

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

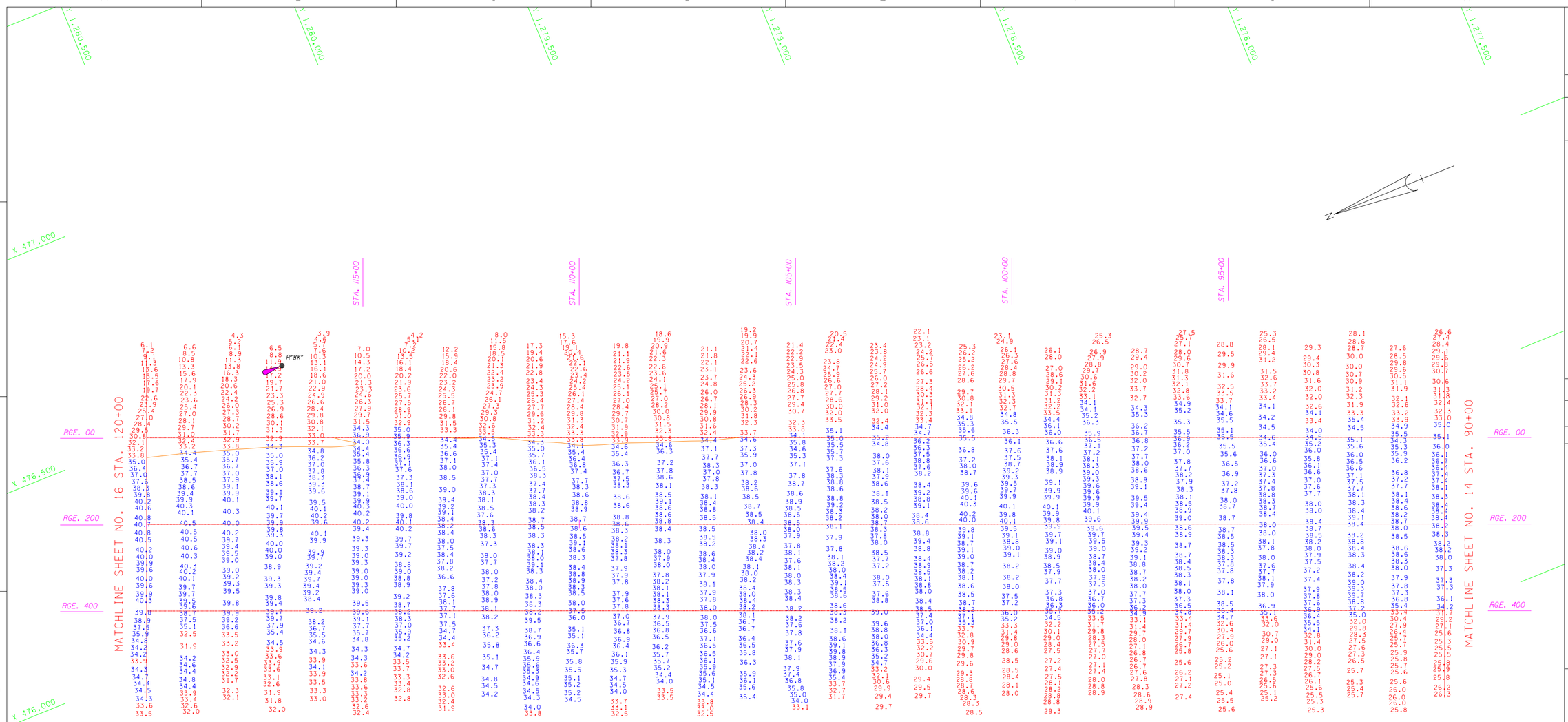
Dated: APR 2002
D.O.FILE NO.

File name: D111SH14.DGN
Reference files: BRDR98.DGN TAMPAHBR83.DGN D111CTK.DGN D111NAV.DGN CON34.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 60+00 THRU STA. 90+00 CUT-K
PLAN

DRAWING NO.
9/12

SHEET 14 OF 17



CUT-K

AZ=21-58-41

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-8K (04/02)	476,533	1,280,332	27°51'17.37"	82°33'21.33"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 02-111.
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

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

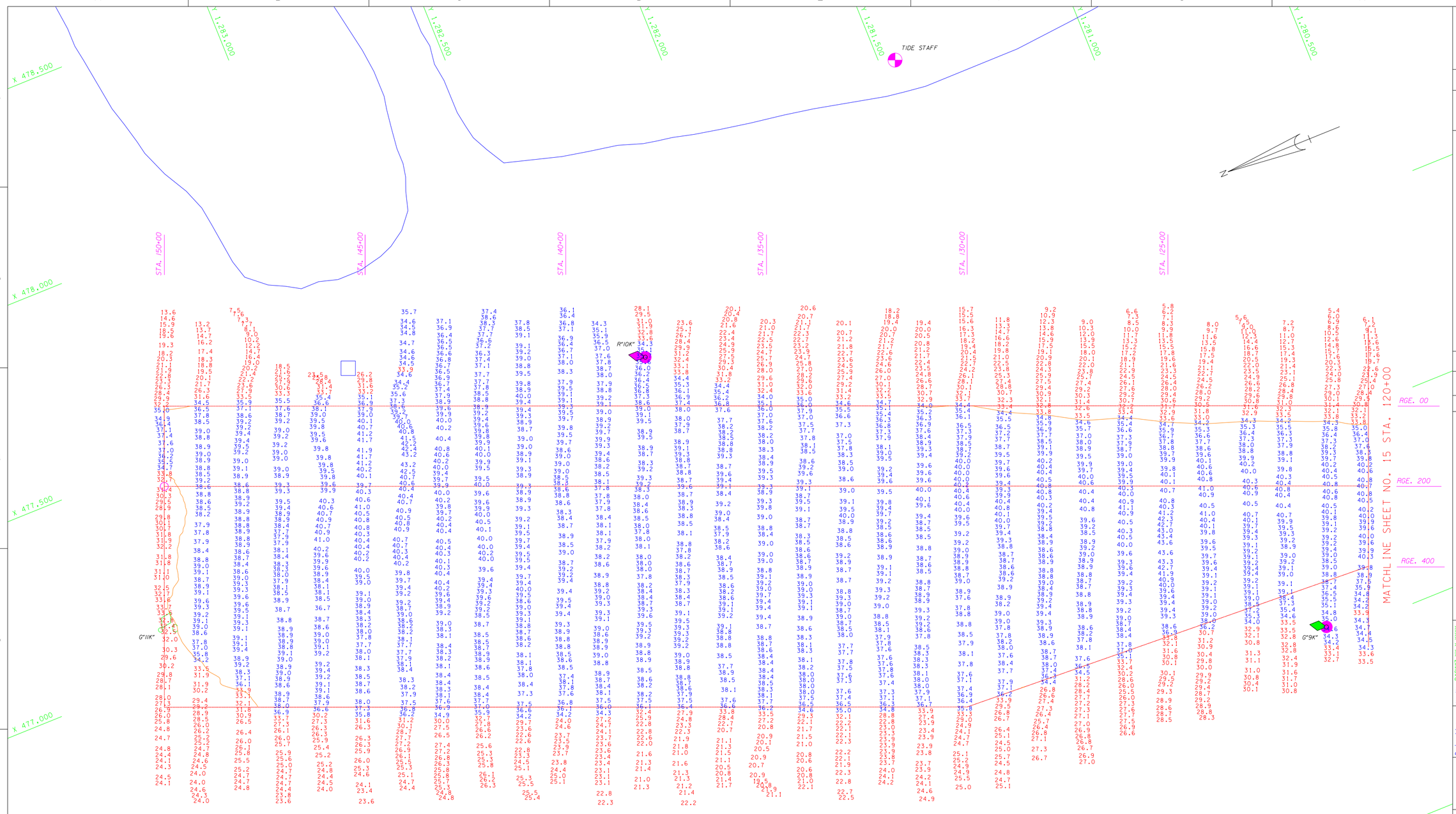
Designed by: WRM
Dwn by: WRM
Ckd by: WRM
Dated: APR 2002
D.O.FILE NO.

File name: D11TSH15.DGN
Reference files: BRD998.DGN TAMPAHBR83.DGN D11TCTK.DGN D11NAV.DGN CON34.DGN

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

DRAWING NO.
10/12

SHEET 15 OF 17



CUT-K

AZ=21-58-41

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-9K (04/02)	476,026	1,280,993	27°51'23.89"	82°33'27.01"
LT. BUOY-10K (04/02)	477,285	1,282,314	27°51'37.04"	82°33'13.06"
CAN BUOY-11K (04/02)	477,107	1,283,689	27°51'50.63"	82°33'15.10"
TIDESTAFF (04/02)	477,738	1,281,460	27°51'28.60"	82°33'07.97"
SIGN (04/02)	477,536	1,283,011	27°51'43.94"	82°33'10.28"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 02-III.
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: WRM
Dwn by: WRM
Ckd by: WRM

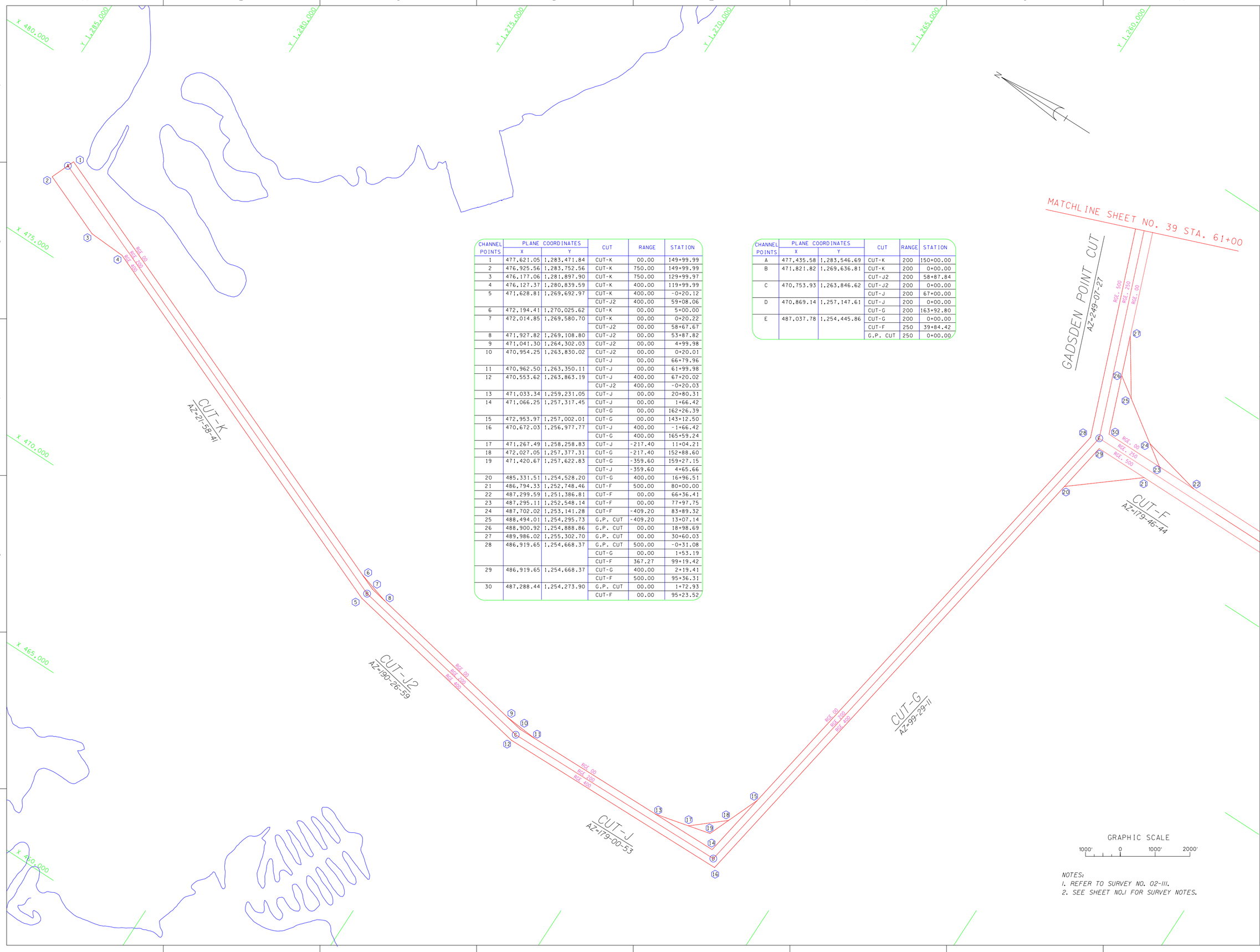
Dated: APR 2002
D.O.FILE NO.

File name: D11DSHTS1.DGN
Reference files: BRDR98.DGN, T1AMPAHB83.DGN, TPASHORE83.DGN, D11TIDE.DGN, D11NAV.DGN, CON34.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
STA. 120+00 THRU STA. 150+00 CUT-K
PLAN

DRAWING NO.
11/12

SHEET 16 OF 17



CHANNEL POINTS	PLANE COORDINATES X	PLANE COORDINATES Y	CUT	RANGE	STATION
1	477,621.05	1,283,471.84	CUT-K	00.00	149+99.99
2	476,925.56	1,283,752.56	CUT-K	750.00	149+99.99
3	476,177.06	1,281,897.90	CUT-K	750.00	129+99.97
4	476,127.37	1,280,839.59	CUT-K	400.00	119+99.99
5	471,628.81	1,269,692.97	CUT-K	400.00	-0+20.12
			CUT-J2	400.00	59+08.06
6	472,194.41	1,270,025.62	CUT-K	00.00	5+00.00
7	472,014.85	1,269,580.70	CUT-K	00.00	0+20.22
			CUT-J2	00.00	58+67.67
8	471,927.82	1,269,108.80	CUT-J2	00.00	53+87.82
9	471,041.30	1,264,302.03	CUT-J2	00.00	4+99.98
10	470,954.25	1,263,830.02	CUT-J2	00.00	0+20.01
			CUT-J	00.00	66+79.96
11	470,962.50	1,263,350.11	CUT-J	00.00	61+99.98
12	470,553.62	1,263,863.19	CUT-J	400.00	67+20.02
			CUT-J2	400.00	-0+20.03
13	471,033.34	1,259,231.05	CUT-J	00.00	20+80.31
14	471,066.25	1,257,317.45	CUT-J	00.00	1+66.42
			CUT-G	00.00	162+26.39
15	472,953.97	1,257,002.01	CUT-G	00.00	143+12.50
16	470,672.03	1,256,977.77	CUT-J	400.00	-1+66.42
			CUT-G	400.00	165+59.24
17	471,267.49	1,258,258.83	CUT-J	-217.40	11+04.21
18	472,027.05	1,257,377.31	CUT-G	-217.40	152+88.60
19	471,420.67	1,257,622.83	CUT-G	-359.60	159+27.15
			CUT-J	-359.60	4+65.66
20	485,331.51	1,254,528.20	CUT-G	400.00	16+96.51
21	486,794.33	1,252,748.46	CUT-F	500.00	80+00.00
22	487,299.59	1,251,386.81	CUT-F	00.00	66+36.41
23	487,295.11	1,252,548.14	CUT-F	00.00	77+97.75
24	487,702.02	1,253,141.28	CUT-F	-409.20	83+89.32
25	488,494.01	1,254,295.73	G.P. CUT	-409.20	13+07.14
26	488,900.92	1,254,888.86	G.P. CUT	00.00	18+98.69
27	489,986.02	1,255,302.70	G.P. CUT	00.00	30+60.03
28	486,919.65	1,254,668.37	G.P. CUT	500.00	-0+31.08
			CUT-G	00.00	1+53.19
			CUT-F	367.27	99+19.42
29	486,919.65	1,254,668.37	CUT-G	400.00	2+19.41
			CUT-F	500.00	95+36.31
30	487,288.44	1,254,273.90	G.P. CUT	00.00	1+72.93
			CUT-F	00.00	95+23.52

CHANNEL POINTS	PLANE COORDINATES X	PLANE COORDINATES Y	CUT	RANGE	STATION
A	477,435.58	1,283,546.69	CUT-K	200	150+00.00
B	471,821.82	1,269,636.81	CUT-K	200	0+00.00
			CUT-J2	200	58+87.84
C	470,753.93	1,263,846.62	CUT-J2	200	0+00.00
			CUT-J	200	67+00.00
D	470,869.14	1,257,147.61	CUT-J	200	0+00.00
			CUT-G	200	163+92.80
E	487,037.78	1,254,445.86	CUT-G	200	0+00.00
			CUT-F	250	39+84.42
			G.P. CUT	250	0+00.00

NOTES:
1. REFER TO SURVEY NO. 02-111.
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
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XX:X

Designed by: WRM
Dwn by: WRM
Ckd by: WRM

Dated: APR 2002
D.O.FILE NO. XXX-XX,XXX

File name: D17SH17.DGN
Reference files: BRI8398.DGN TPASHORE83.DGN TAMPAHBR83.DGN

TAMPA HARBOR, FLORIDA
PROJECT CONDITION SURVEY
34-FOOT PROJECT
CHANNEL CONTROL SHEET
PLAN

DRAWING NO.
12/12

SHEET 17 OF 17