SAFETY ON THIS JOB
DEPENDS ON YOU

KEY WEST HARBOR, FLORIDA

PLANS FOR

DREDGING
34-FOOT PROJECT

MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR

DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS

JACKSONVILLE, FLORIDA

2003

TO ACCOMPANY SOLICITATION
NO. DACA17-03-R-0012

VE *"INCREASE PROFIT -- SUBMIT VECP'S"*

D. O. FILE NO. 21-38,378 KWH0-01.DGN

KEY WEST HARBOR, FLORIDA

PLANS
FOR

DREDGING
34-FOOT PROJECT

MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR

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

2003

INDEX TO DRAWINGS

DWG. NO.	TITLE	DWG. NO.	TITLE	DWG. NO.	TITLE
	GENERAL		△4 DREDGING		DISPOSAL AREA
1/1	INDEX TO DRAWINGS	2/1	DREDGING PLAN	3/1	UPLAND DISPOSAL AREA SITE PLAN
1/2	LOCATION, VICINITY MAP, LEGEND, GENERAL NOTES, AND DREDGING QUANTITIES	2/2	DREDGING PLAN		
1/3	CONTROL DATA	2/3	DREDGING PLAN		
		2/4	DREDGING PLAN		
		2/5	DREDGING PLAN		
		2/6	DREDGING PLAN		
		2/7	DREDGING PLAN		
		2/8	DREDGING PLAN		
		2/9	DREDGING PLAN		
		2/10	DREDGING PLAN		
		2/11	DREDGING PLAN		
		2/12	DREDGING PLAN		
		2/13	DREDGING PLAN		
		2/14	DREDGING PLAN		
		2/15	TYPICAL DREDGING SECTIONS		
		2/16	NO ANCHOR AREAS		
		△4 2/17	RESOURCE MAP		
		△4 2/18	RESOURCE MAP		

NOTE: THIS PROJECT WAS DESIGNED BY THE JACKSONVILLE DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
4	△4	C-3,P-1	REVISED TO ACCOMPANY AMENDMENT NO.0002	

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

Sol. No. DACA17-03-R-0012
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Dated: MARCH 2003
D.O.FILE NO. 21-38,378

File name: KWH1-01.DGN
Reference Files: KWH-BROR.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
INDEX TO DRAWINGS

DRAWING NO.
1/1

SHEET 1 OF 22 △4

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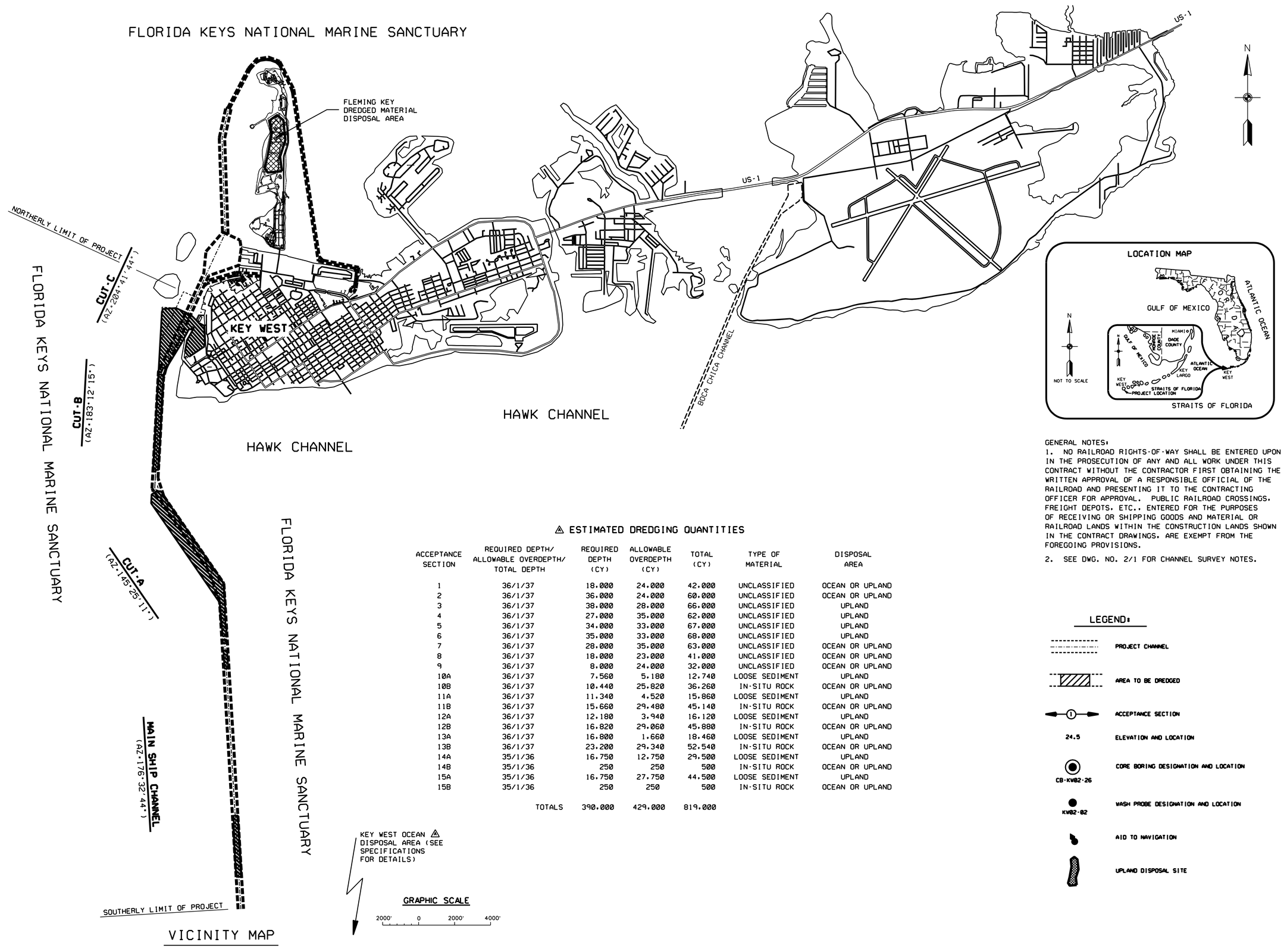


△2 ESTIMATED DREDGING QUANTITIES

ACCEPTANCE SECTION	REQUIRED DEPTH/ ALLOWABLE OVERDEPTH/ TOTAL DEPTH	REQUIRED DEPTH (CY)	ALLOWABLE OVERDEPTH (CY)	TOTAL (CY)	TYPE OF MATERIAL	DISPOSAL AREA
1	36/1/37	18,000	24,000	42,000	UNCLASSIFIED	OCEAN OR UPLAND
2	36/1/37	36,000	24,000	60,000	UNCLASSIFIED	OCEAN OR UPLAND
3	36/1/37	38,000	28,000	66,000	UNCLASSIFIED	UPLAND
4	36/1/37	27,000	35,000	62,000	UNCLASSIFIED	UPLAND
5	36/1/37	34,000	33,000	67,000	UNCLASSIFIED	UPLAND
6	36/1/37	35,000	33,000	68,000	UNCLASSIFIED	UPLAND
7	36/1/37	28,000	35,000	63,000	UNCLASSIFIED	OCEAN OR UPLAND
8	36/1/37	18,000	23,000	41,000	UNCLASSIFIED	OCEAN OR UPLAND
9	36/1/37	8,000	24,000	32,000	UNCLASSIFIED	OCEAN OR UPLAND
10A	36/1/37	7,560	5,180	12,740	LOOSE SEDIMENT	UPLAND
10B	36/1/37	10,440	25,820	36,260	IN-SITU ROCK	OCEAN OR UPLAND
11A	36/1/37	11,340	4,520	15,860	LOOSE SEDIMENT	UPLAND
11B	36/1/37	15,660	29,480	45,140	IN-SITU ROCK	OCEAN OR UPLAND
12A	36/1/37	12,180	3,940	16,120	LOOSE SEDIMENT	UPLAND
12B	36/1/37	16,820	29,060	45,880	IN-SITU ROCK	OCEAN OR UPLAND
13A	36/1/37	16,800	1,660	18,460	LOOSE SEDIMENT	UPLAND
13B	36/1/37	23,200	29,340	52,540	IN-SITU ROCK	OCEAN OR UPLAND
14A	35/1/36	16,750	12,750	29,500	LOOSE SEDIMENT	UPLAND
14B	35/1/36	250	250	500	IN-SITU ROCK	OCEAN OR UPLAND
15A	35/1/36	16,750	27,750	44,500	LOOSE SEDIMENT	UPLAND
15B	35/1/36	250	250	500	IN-SITU ROCK	OCEAN OR UPLAND
	TOTALS	390,000	429,000	819,000		

GENERAL NOTES:

1. NO RAILROAD RIGHTS-OF-WAY SHALL BE ENTERED UPON IN THE PROSECUTION OF ANY AND ALL WORK UNDER THIS CONTRACT WITHOUT THE CONTRACTOR FIRST OBTAINING THE WRITTEN APPROVAL OF A RESPONSIBLE OFFICIAL OF THE RAILROAD AND PRESENTING IT TO THE CONTRACTING OFFICER FOR APPROVAL. PUBLIC RAILROAD CROSSINGS, FREIGHT DEPOTS, ETC., ENTERED FOR THE PURPOSES OF RECEIVING OR SHIPPING GOODS AND MATERIAL OR RAILROAD LANDS WITHIN THE CONSTRUCTION LANDS SHOWN IN THE CONTRACT DRAWINGS, ARE EXEMPT FROM THE FOREGOING PROVISIONS.

2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

LEGEND:

- PROJECT CHANNEL
- AREA TO BE DREDGED
- ACCEPTANCE SECTION
- 24.5 — ELEVATION AND LOCATION
- CB-KW02-26 — CORE BORING DESIGNATION AND LOCATION
- KW02-02 — WASH PROBE DESIGNATION AND LOCATION
- AID TO NAVIGATION
- UPLAND DISPOSAL SITE

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
2	△2	D-1 C-1	REVISED TO ACCOMPANY AMENDMENT NO. 0002	

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

Designed by: JWB | Dwn by: JWB | Ckd by: SRC
Sol. No.: | Dated: | Scale: AS SHOWN | Plot date: | Plot scale:
File name: KWH1-02.DGN
Reference files: KWH-BROR.DGN DRG-AREA.DGN
Dated: MARCH 2003
D.O.FILE NO. 21-38,378

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR
LOCATION, VICINITY MAP, LEGEND
GENERAL NOTES, AND DREDGING QUANTITIES

DRAWING NO.
1/2

kwh1-02.dgn 08/06/2003 04:34:26 PM

CHANNEL CONTROL POINTS

CHANNEL POINTS	COORDINATES (NAD83) (X)	(Y)	STATION	RANGE	CUT
A	389,830.36	49,208.17	0+00	0	MSCH
B	388,737.73	67,308.80	181+33.58	0	MSCH
C	385,393.83	72,159.69	58+49.98	0	CUT-A
D	385,074.48	73,164.34	5+52.83	0	CUT-B
E	385,385.51	78,720.44	61+17.63	0	CUT-B
F	385,514.13	79,238.25	3+00	0	CUT-C
G	387,310.66	83,144.98	64+00	0	CUT-C
H	387,038.10	83,270.32	64+00	300	CUT-C
I	386,492.97	83,521.00	64+00	900	CUT-C
J	386,076.97	82,614.35	36+02.48	900	CUT-C
K	385,305.55	82,659.53	33+21.23	1618.9	CUT-C
L	385,197.80	80,704.52	15+00	900	CUT-C
M	385,104.34	79,065.16	64+46.09	300	CUT-B
N	384,741.18	72,577.89	65+64.71	300	CUT-A
O	384,695.57	71,763.10	59+19.75	800	CUT-A
P	387,899.45	67,996.26	10+00	300	CUT-A
Q	388,500.54	66,259.03	171+00	300	MSCH
R	388,501.58	66,241.81	-7+86.24	800	CUT-A
S	389,530.90	49,190.09	0+00	300	MSCH

TRUMAN HARBOR AND CUT-C TURNING BASIN POINTS

CHANNEL POINTS	COORDINATES (NAD83) (X)	(Y)	STATION	RANGE	CUT
1	386,410	80,698			
2	386,810	79,905			
3			36+02.48	0	CUT-C
4	385,330	82,558			
5	385,323	82,435			

CENTERLINE CONTROL POINTS

CHANNEL POINTS	COORDINATES (NAD83) (X)	(Y)	STATION	RANGE	CUT
I	389,680.63	49,199.13	0+00	150	MSCH
II	388,590.51	67,258.06	180+91.80	150	MSCH
			0+00	150	CUT-A
III	384,893.81	72,620.76	65+13.88	150	CUT-A
			0+00	150	CUT-B
IV	385,252.51	79,028.36	64+17.63	150	CUT-B
			0+00	150	CUT-C
V	387,174.37	83,207.66	46+00	150	CUT-C

SURVEY CONTROL

MONUMENT DESIGNATION	COORDINATES (NAD83) (X)	(Y)	ELEVATION FEET (NGVD 29)
KEY WEST GSL	386,795.86	81,406.16	6.46
KH 04			6.14

CONTROL DATA NOTES:

1. ALL ELEVATIONS ARE IN FEET AND ARE REFERENCED TO NGVD 1929.
2. COORDINATES ARE BASED ON THE STANDARD PLANE RECTANGULAR COORDINATE SYSTEM FOR THE EAST ZONE OF FLORIDA AND ARE REFERENCED TO NAD 1983, 1990 ADJUSTMENT (NAD83/90).
3. ALL AZIMUTHS (0-SOUTH) ARE GRID AZIMUTHS.
4. ALL STATIONING IS ALONG THE CENTERLINE OF THE CHANNEL.

LEGEND:

△ HORIZONTAL AND VERTICAL CONTROL MONUMENT

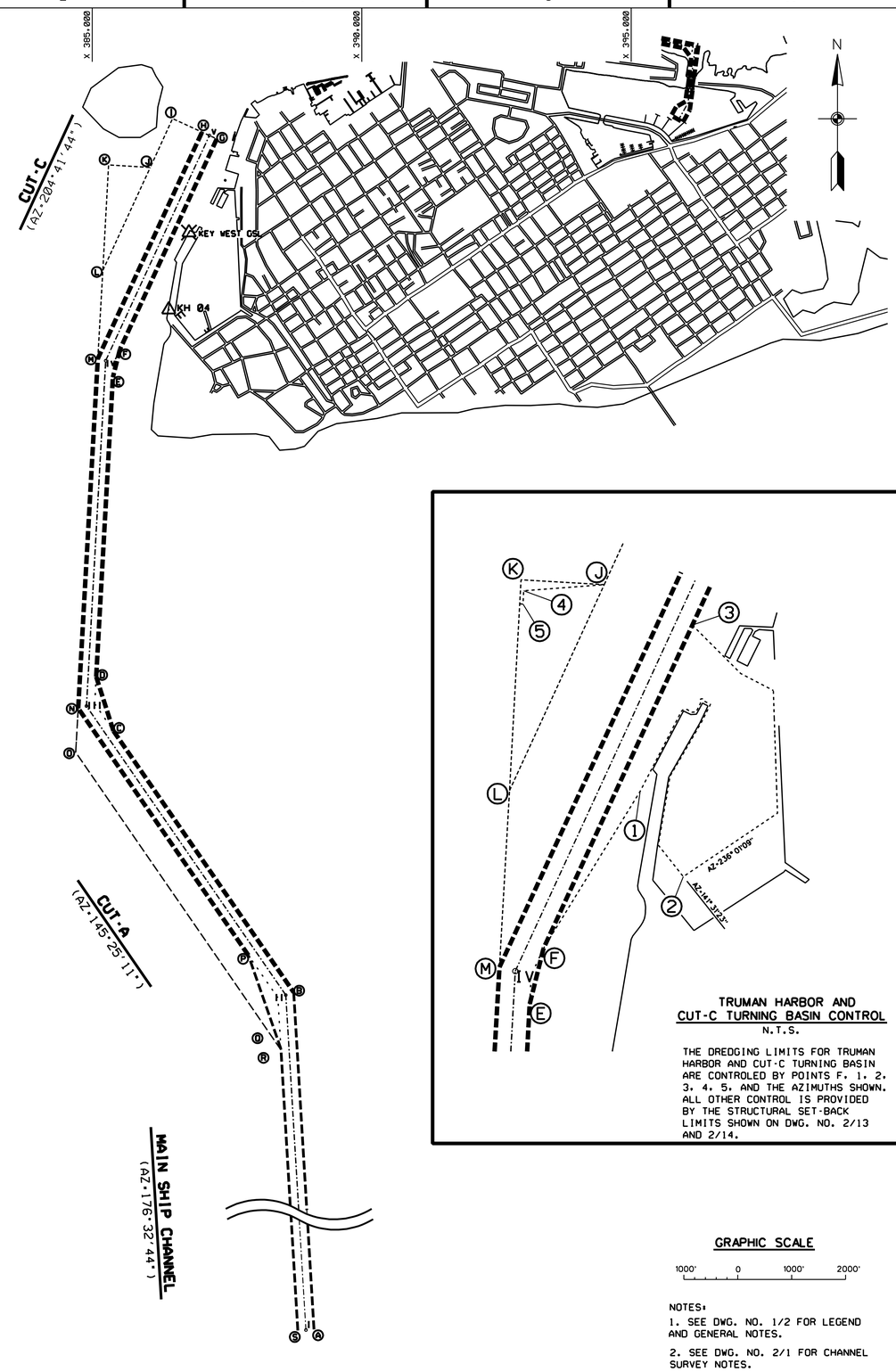
BENCHMARK

VERTICAL DATUM DIAGRAM

NATIONAL GEODETIC VERTICAL DATUM, 1929

0.65'

MEAN LOWER LOW WATER



TRUMAN HARBOR AND CUT-C TURNING BASIN CONTROL

N.T.S.

THE DREDGING LIMITS FOR TRUMAN HARBOR AND CUT-C TURNING BASIN ARE CONTROLED BY POINTS F, 1, 2, 3, 4, 5, AND THE AZIMUTHS SHOWN. ALL OTHER CONTROL IS PROVIDED BY THE STRUCTURAL SET-BACK LIMITS SHOWN ON DWG. NO. 2/13 AND 2/14.

GRAPHIC SCALE

1000' 0 1000' 2000'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

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

Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Dated: MARCH 2003
D.O.FILE NO. 21-38,378

File name: KWH1-03.DGN
Reference files: KWH-BROR.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
CONTROL DATA

DRAWING NO.
1/3

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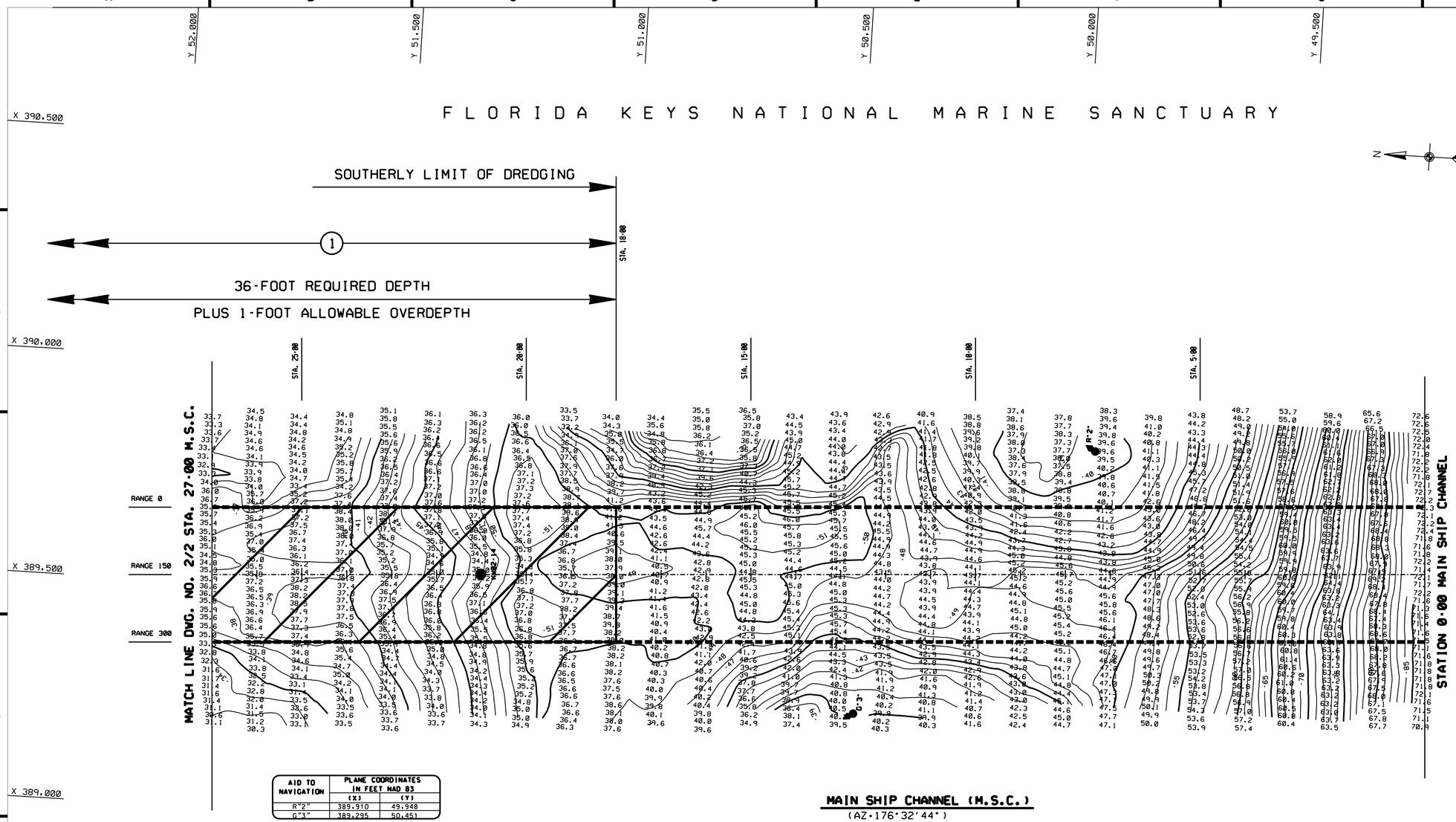

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
R"2"	389.910	49.948
G"3"	389.295	50.451

MAIN SHIP CHANNEL (M.S.C.)

(AZ-176°32'44")

CHANNEL SURVEY NOTES:

1. THIS SURVEY REPORT HAS BEEN PREPARED TO ACCOMPANY THE BATHYMETRIC AND GEOPHYSICAL SURVEY DATA FILES PREPARED BY SEA SYSTEMS CORPORATION FOR THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE). JACKSONVILLE DISTRICT. THE SURVEY ENCOMPASSED THE MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C, AND THE TRUMAN ANNEX TURNING BASIN AND WERE DESCRIBED BY THE USACE IN THE TECHNICAL REQUIREMENTS FOR SURVEY NUMBER 02-226. D.O. FILE NUMBER 21-38.374 UNDER CONTRACT NUMBER DACW17-01-D-0001.

2. THIS HYDROGRAPHIC SURVEY, CONSISTING OF BATHYMETRIC, SIDE SCAN SONAR AND SUB-BOTTOM DATA ACQUISITION WAS CONDUCTED OCTOBER 7, 2002 THROUGH JANUARY 31, 2003.

3. THE COORDINATES SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1983, 1990 ADJUSTMENT (NAD83/90).

4. CONTOURS AND PLAN VIEW ELEVATIONS ARE RELATIVE TO MEAN LOWER LOW WATER (MLLW), WHICH IS 0.65 FEET BELOW THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). CONTOURS ARE DISPLAYED AT ONE-FOOT INTERVALS AND ARE BASED ON A GRIDDED DIGITAL TERRAIN MODEL.

5. VESSEL POSITIONING WAS OBTAINED USING A TRIMBLE, REAL-TIME DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) UTILIZING THE UNITED STATES COAST GUARD (U.S.C.G.) NAVBEACON.

6. BATHYMETRIC DATA WAS OBTAINED USING AN ODOM ECHOTRAC MODEL MKII SURVEY GRADE ECHOSOUNDER WITH A 200KHZ NARROW BEAM TRANSDUCER.

7. TIDAL REDUCTIONS WERE BASED ON OBSERVATIONS OF A TIDE STAFF SET NEAR AND RELATIVE TO A ARMY CORPS OF ENGINEERS BRONZE DISK SET IN ASPHALT STAMPED "KH 04" HAVING AN ELEVATION OF 6.14 FEET BASED ON (NGVD29).

8. SIDE SCAN SONAR DATA WAS ACQUIRED USING AN EDGETECH TD-272 DUAL FREQUENCY TOWFISH OPERATING AT 500KHZ.

9. SUB-BOTTOM DATA WAS COLLECTED UTILIZING AN EDGETECH SB-424 AND AN SB-216S TOWFISH. ACOUSTIC SUB-BOTTOM DATA WAS SUPPLEMENTED WITH DATA OBTAINED FROM JET PROBE INVESTIGATION.

10. JET PROBES WERE PERFORMED USING A 1" GALVANIZED PIPE 10 FOOT IN LENGTH.

11. SUBMERGED FEATURES, AS DEPICTED ON THE CHARTS, HAVE BEEN DESCRIBED BASED UPON THEIR APPARENT PHYSICAL CHARACTERISTICS THROUGH INTERPRETATION OF SIDE SCAN SONAR IMAGERY AND GROUND-TRUTHING BASED ON UNDERWATER VIDEO AND PHOTOGRAPHY.

12. UNDERGROUND UTILITIES, OTHER THAN THOSE OBSERVED FROM THE SIDE SCAN SONAR IMAGERY, WERE NOT LOCATED AS PART OF THIS SURVEY AND SHOULD BE FIELD VERIFIED PRIOR TO ANY DREDGING AND/OR CONSTRUCTION.

13. AIDS TO NAVIGATION AND NAVIGATION INFORMATION SIGNS WERE LOCATED DURING THIS SURVEY.

14. REFER TO FIELD BOOK NUMBERS "2003 MONROE COUNTY, 23 AND 24"

15. REFER TO RAW FIELD DATA:

   A. MAGNETIC OPTICAL DRIVE DISCS 02-226-1, 02-226-2, AND 02-226-3.
   B. CADD FILES D226SH01-SH16.DGN
   C. ECHOSOUNDER ROLLS DATED OCTOBER 8, 9, 10, 11, AND 12, 2002

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

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: JWB
Dwn by: JWB
Ckd by: SRC
Sec No.
Date:
Scale: AS SHOWN
Plot date:
Plot scale:
Date: MARCH 2003
D.O.FILE NO. 21-38.378

File name: KWH2-01.DGN
Reference files: KWH-BRDR.DGN, A2166LOA.DGN, D226SH01.DGN, D226NAVD.DGN, ORG-AREA.DGN, TOPROCK.DGN, GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

DRAWING NO.
2/1

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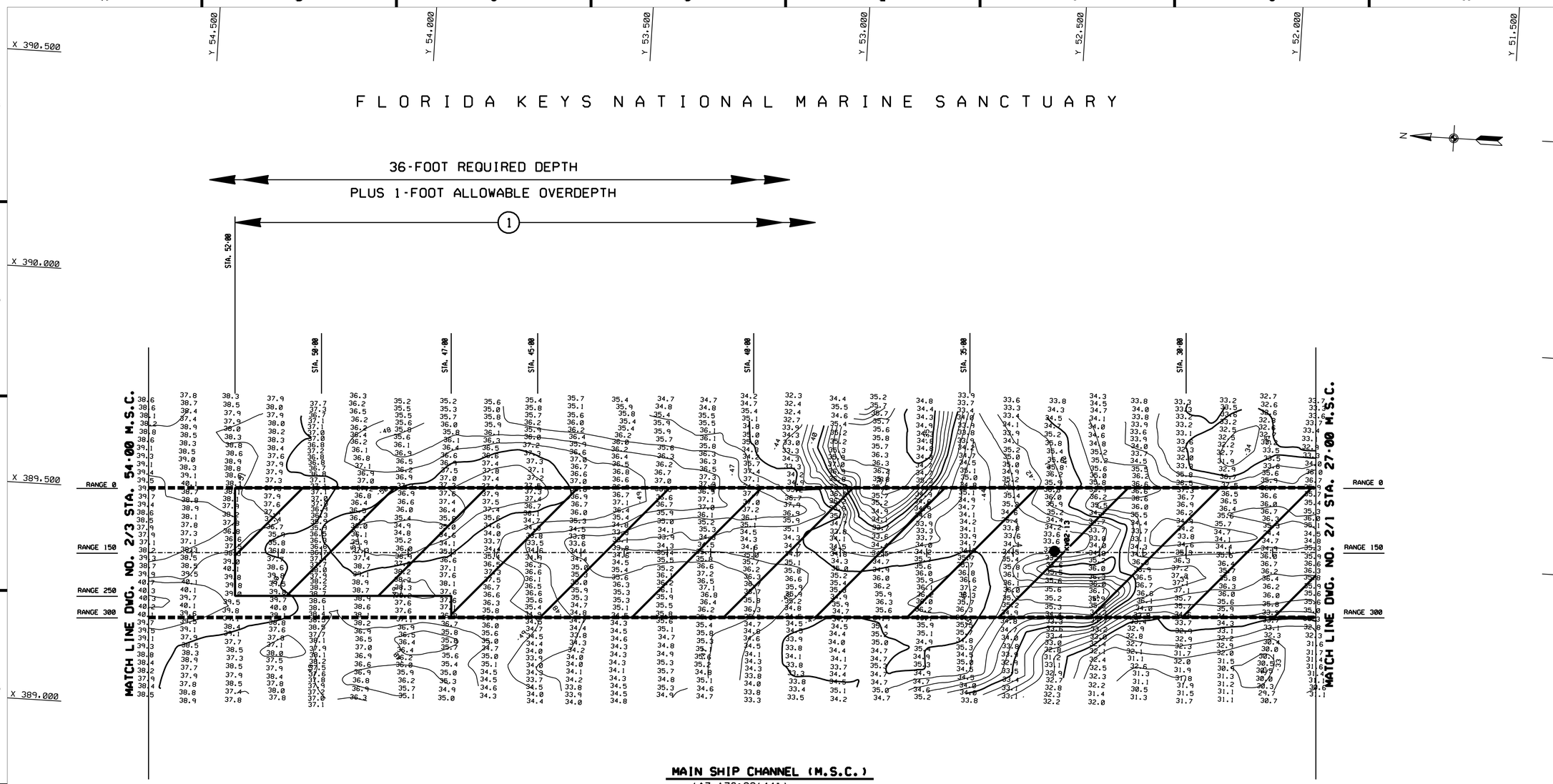

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

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File name: KWH2-02.DGN

Reference files:
KWH-BROR.DGN
A2166CON.DGN
D2250WAV.DGN
D2286WAV0.DGN
DRG-AREA.DGN
TOPROCK.DGN
GEOTECH.DGN

KEY WEST HARBOR, FLORIDA

DREDGING
34-FOOT PROJECT

MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR

DREDGING PLAN

DRAWING NO.
2/2

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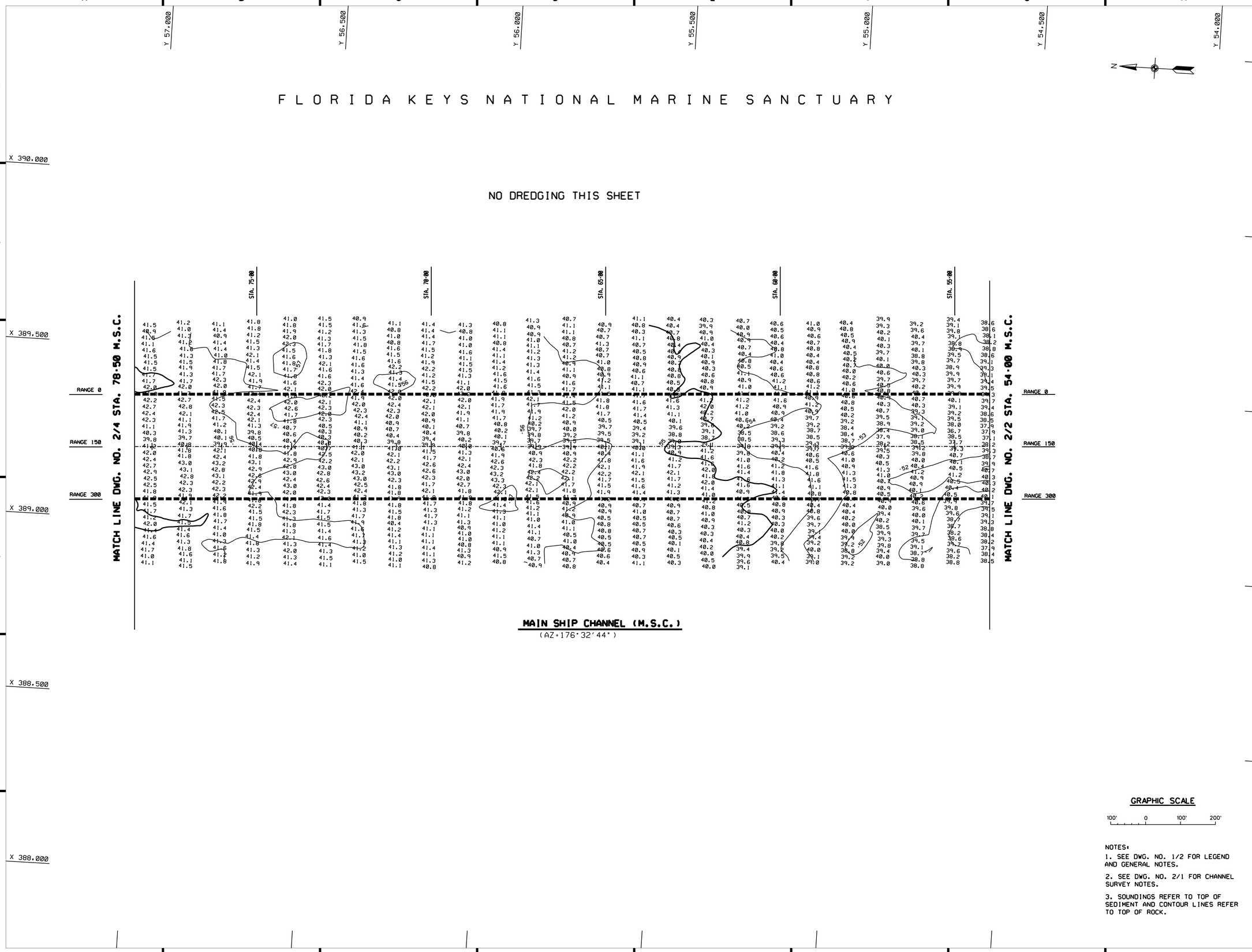

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

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Reference files: KWH-BRDR.DGN A219GEOM.DGN D219SNDG.DGN D219NAVD.DGN DRG-AREA.DGN TOPROCK.DGN GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

DRAWING NO.
2/3

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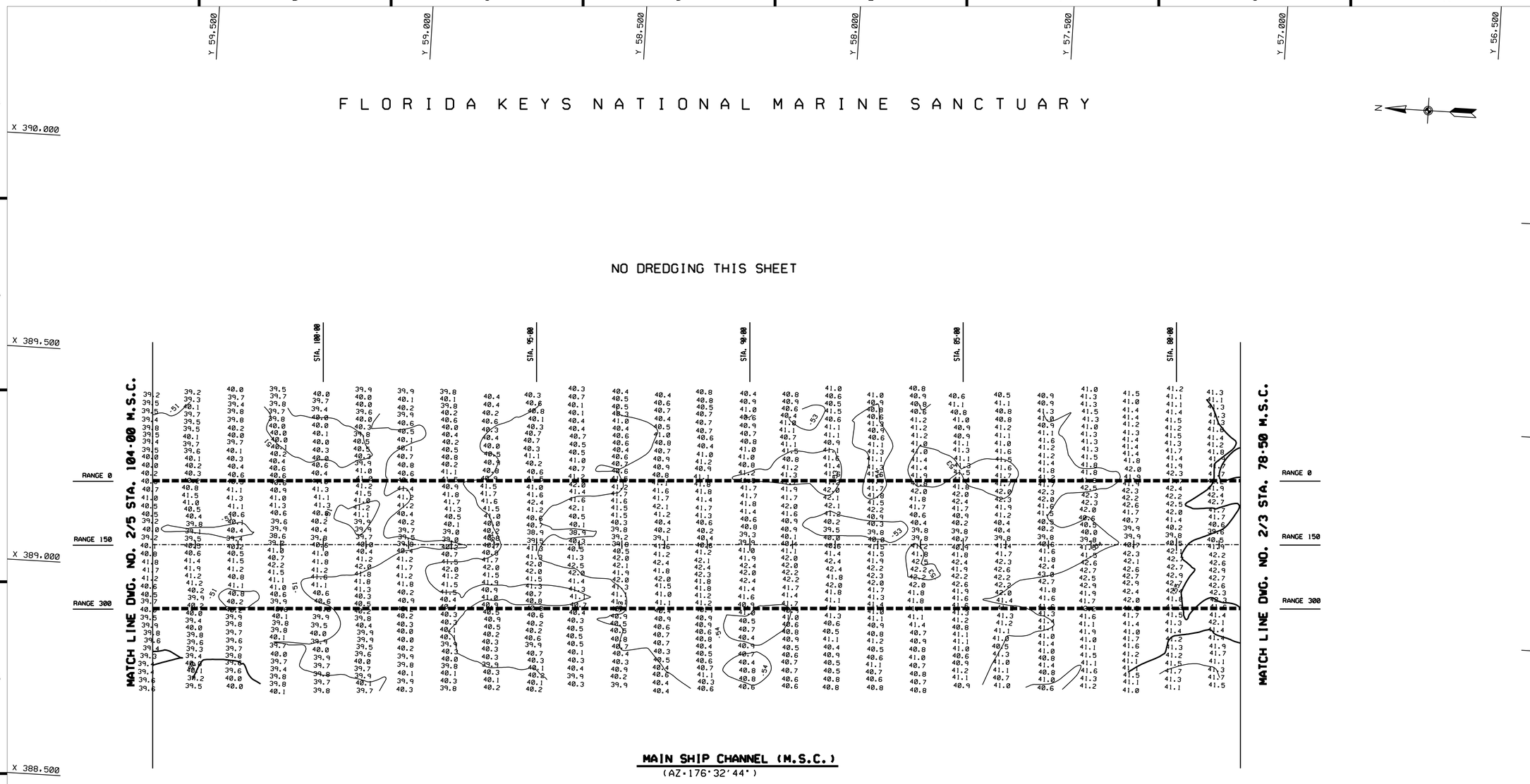

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
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KWH-BRDR.DGN
A29GEOM.DGN
D2208WQ.DGN
D226NAVD.DGN
DRG-AREA.DGN
TOPROCK.DGN
GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

DRAWING NO.
2/4

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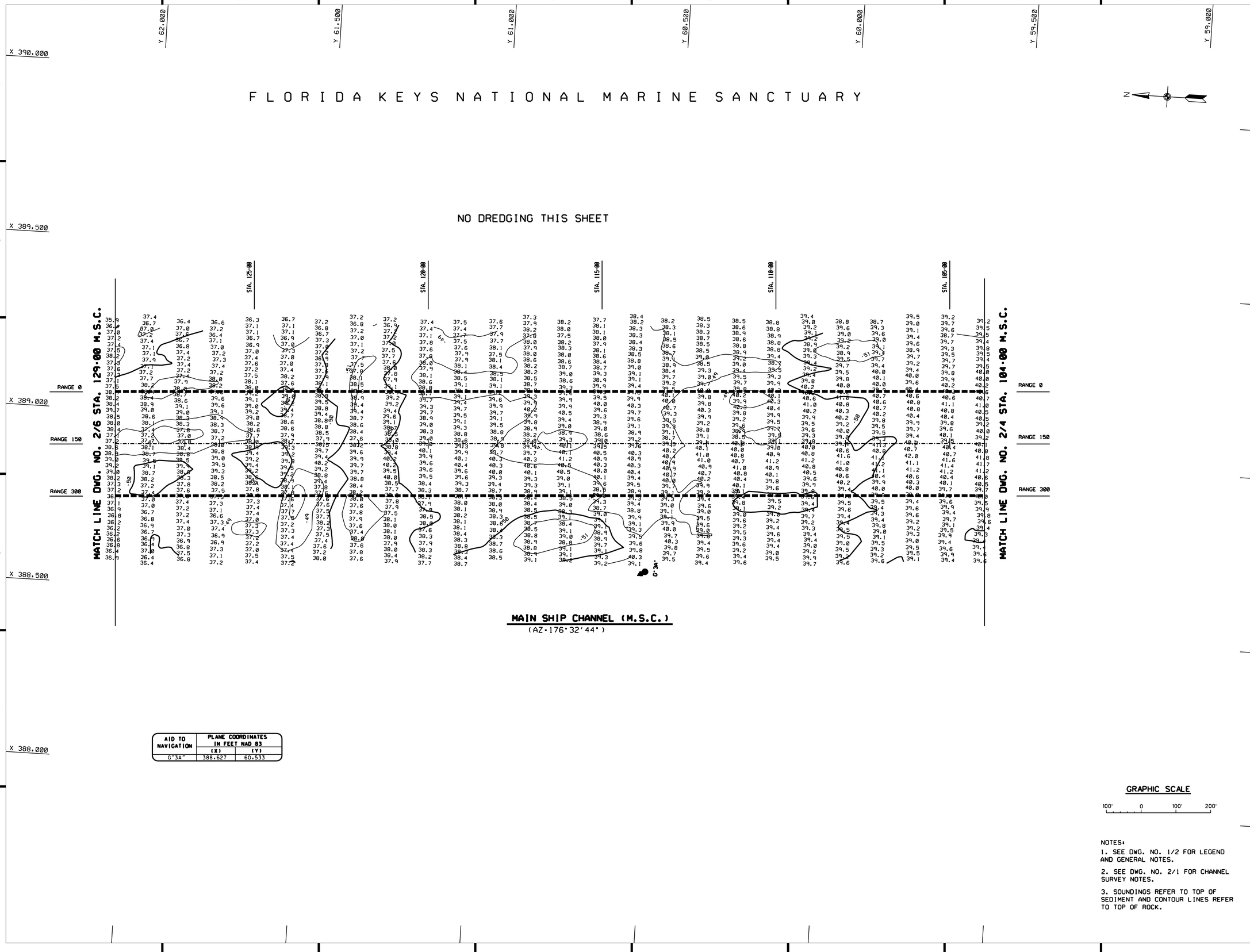

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
G"3A"	388.627	60.533

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

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D.O.FILE NO. 21-38.378

File name: kwh2-05.DGN

Reference files:
KWH-BROR.DGN
A2166C04.DGN
D2226W05.DGN
D2226W10.DGN
DRG-AREA.DGN
TOPROCK.DGN
GEOTECH.DGN

KEY WEST HARBOR, FLORIDA

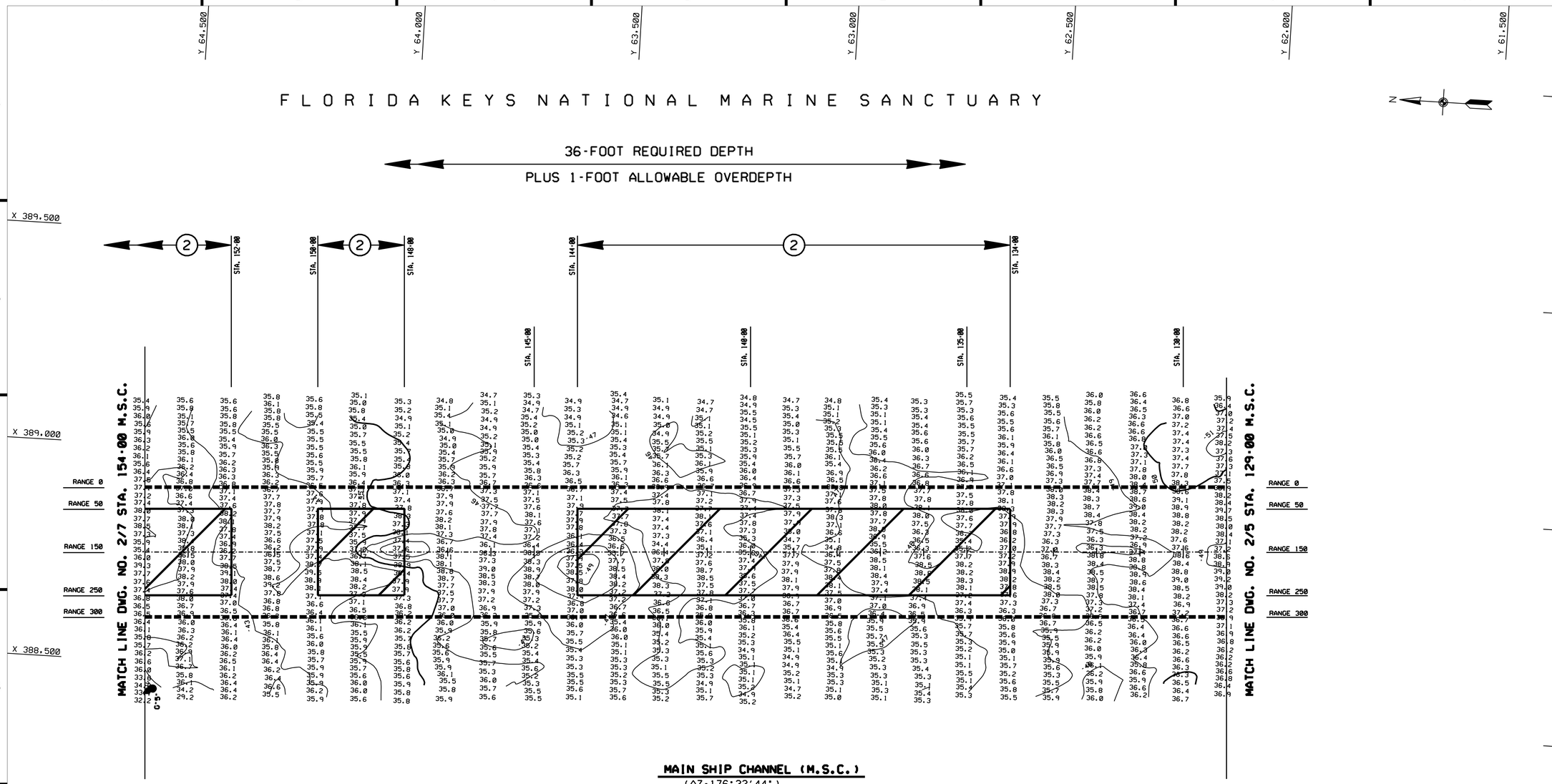
DREDGING
34-FOOT PROJECT

MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR

DREDGING PLAN

DRAWING NO.
2/5

kwh2-05.dgn 07/02/2003 04:52:53 PM



AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
G"5"	388.439	64.534

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

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

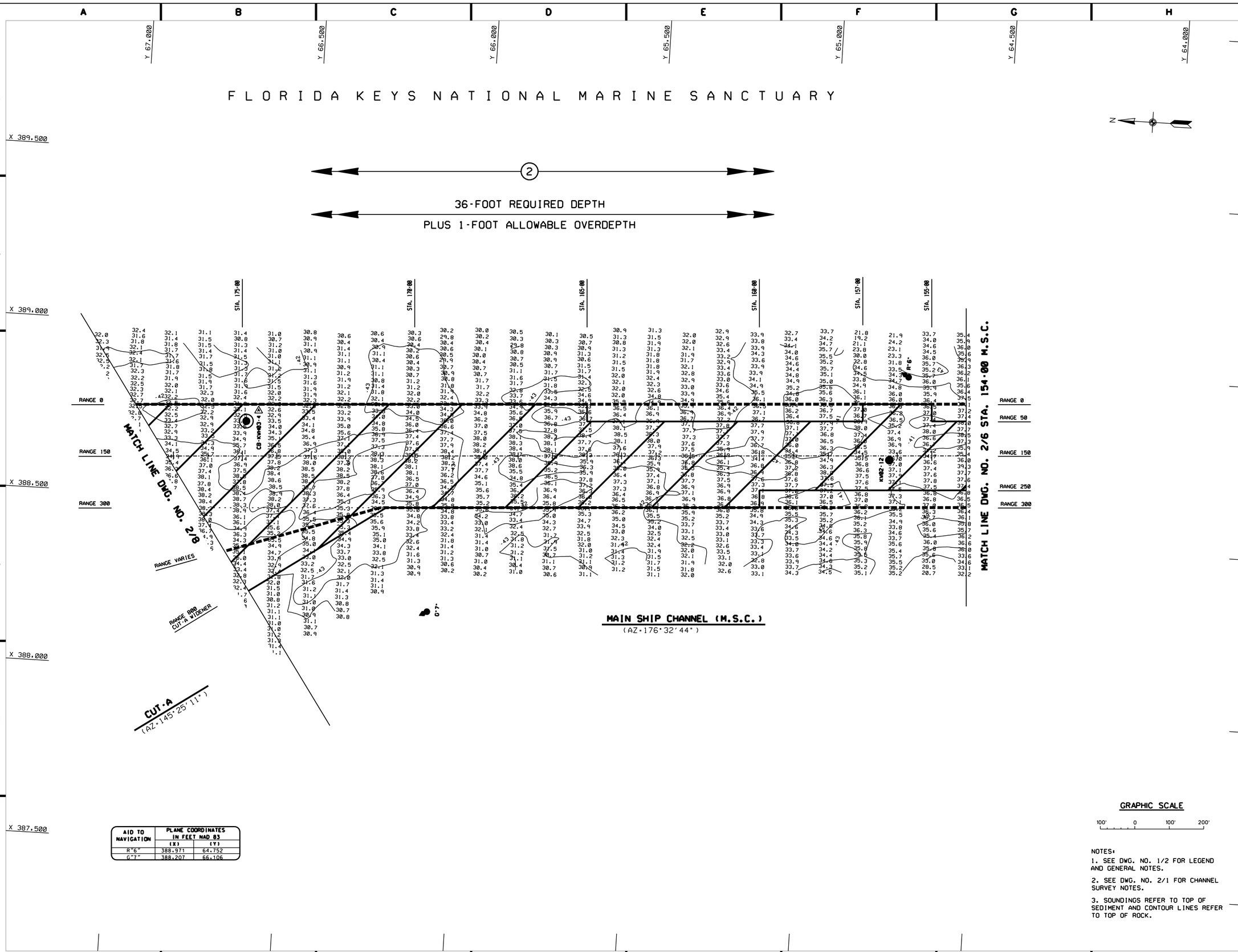
Designed by: JWB
Dwn by: JWB
Ckd by: SRC
Sec No.
Date:
Scale: AS SHOWN
Plot date:
Plot scale:
Dated: MARCH 2003
D.O.FILE NO. 21-38.378

File name: kwh2-06.DGN
Reference files: KWH-BROR.DGN A2166LOA.DGN D2166WAV.DGN D228NAVD.DGN DRG-AREA.DGN TOPROCK.DGN GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

DRAWING NO.
2/6

kwh2-06.dgn 07/02/2003 04:52:54 PM



AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
R"6"	388,971	64,752
C"7"	388,207	66,106

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
1	B-4		REVISED TO ACCOMPANY AMENDMENT NO.0002	

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

Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Dated: MARCH 2003
D.O.FILE NO. 21-38,378

File name: KWH2-07.DGN
Reference files: KWH-BNDR.DGN, K2-NECEM.DGN, D22BSMS.DGN, D22BMAVD.DGN, DRG-AREA.DGN, TOPROCK.DGN, GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

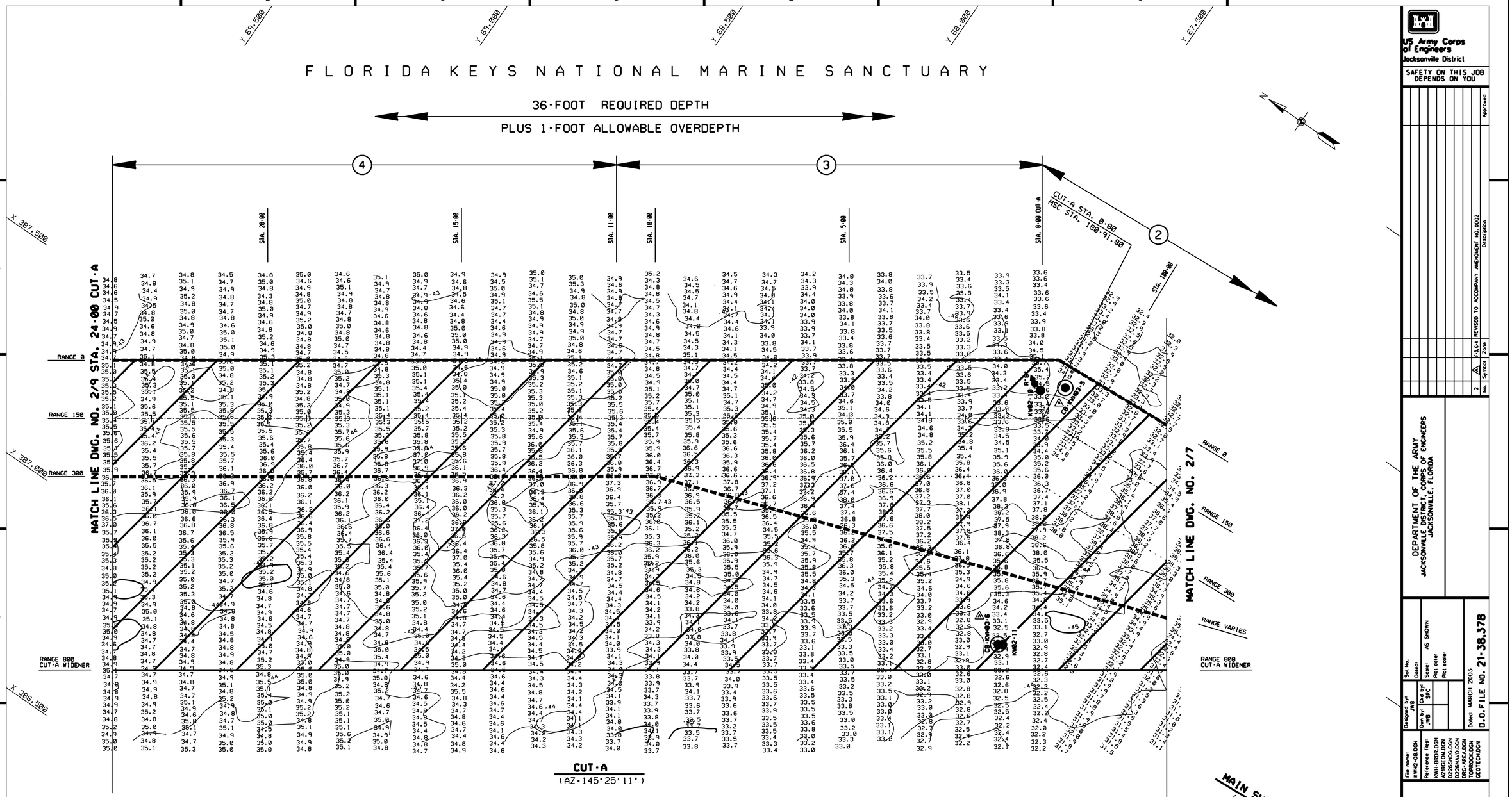
DRAWING NO.
2/7

kwh2-07.dgn 08/06/2003 04:34:31 PM

FLORIDA KEYS NATIONAL MARINE SANCTUARY

36-FOOT REQUIRED DEPTH

PLUS 1-FOOT ALLOWABLE OVERDEPTH



AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
R"8"	388.650	67.325

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
2	△1.6.4		REVISED TO ACCOMPANY AMENDMENT NO. 0002	

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

Sac. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Dated: MARCH 2003

D.O.FILE NO. 21-38.378

File name: kwh2-08.DGN

Reference files:
KWH-BRDR.DGN
A2166CON.DGN
D2166MAV.DGN
D2286MAV0.DGN
DRG-AREA.DGN
TOPROCK.DGN
GEOTECH.DGN

KEY WEST HARBOR, FLORIDA

DREDGING
34-FOOT PROJECT

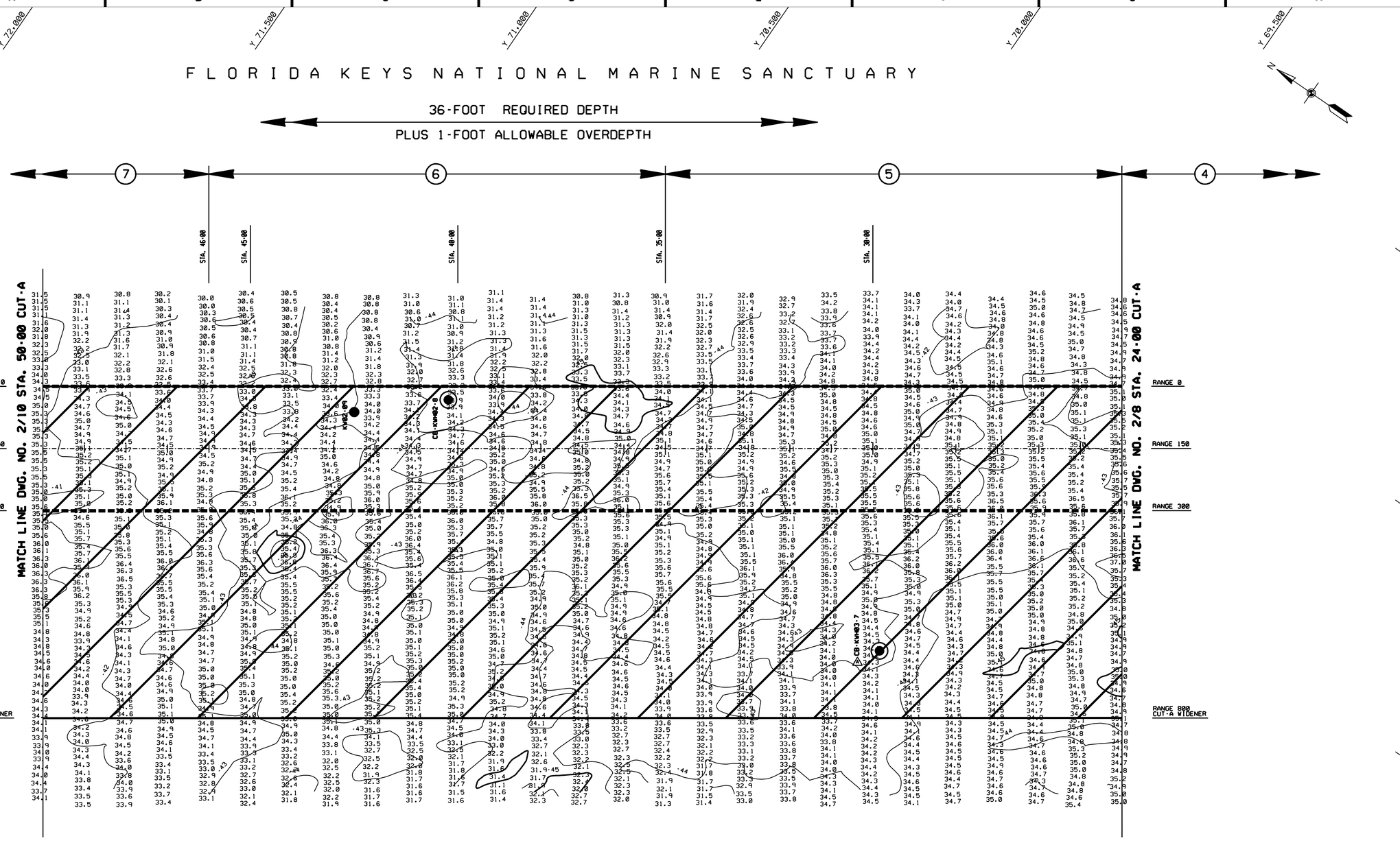
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR

DREDGING PLAN

DRAWING NO.

2/8

kwh2-08.dgn 08/06/2003 04:34:33 PM



GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
1	△	F-3	REVISED TO ACCOMPANY AMENDMENT NO. 0002	

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

Designed by: JWB
Dwn by: JWB
Ckd by: SRC
Date:
Scale: AS SHOWN
Plot date:
Plot scale:
Sac. No.
Date: MARCH 2003

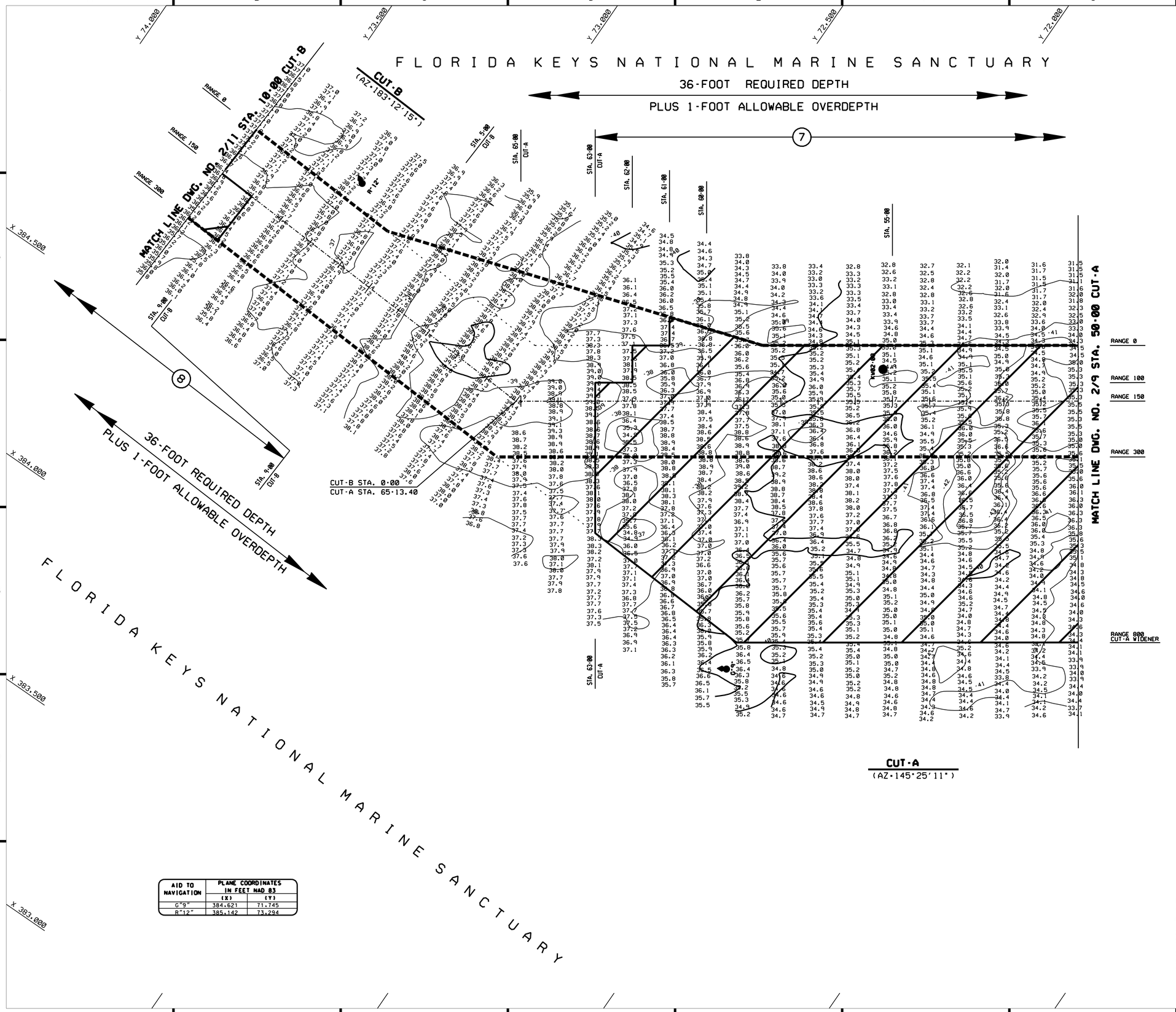
D.O.FILE NO. 21-38.378

File name: KWH2-09.DGN
Reference files: KWH-BROR.DGN, A2166CON.DGN, D2226NAVD.DGN, D2226NAVD.DGN, DRG-AREA.DGN, TOPROCK.DGN, GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

DRAWING NO.
2/9

kwh2-09.dgn 08/06/2003 04:34:35 PM



AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
G"9"	384,621	71,745
R"12"	385,142	73,294

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

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

Sac. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Dated: MARCH 2003

D.O.FILE NO. 21-38.378

File name: kwh2-10.DGN

Reference files:
KWH-BROR.DGN
A2166CON.DGN
D2286WAV1.DGN
D2286WAV2.DGN
DRG-AREA.DGN
TOPROCK.DGN
GEOTECH.DGN

KEY WEST HARBOR, FLORIDA

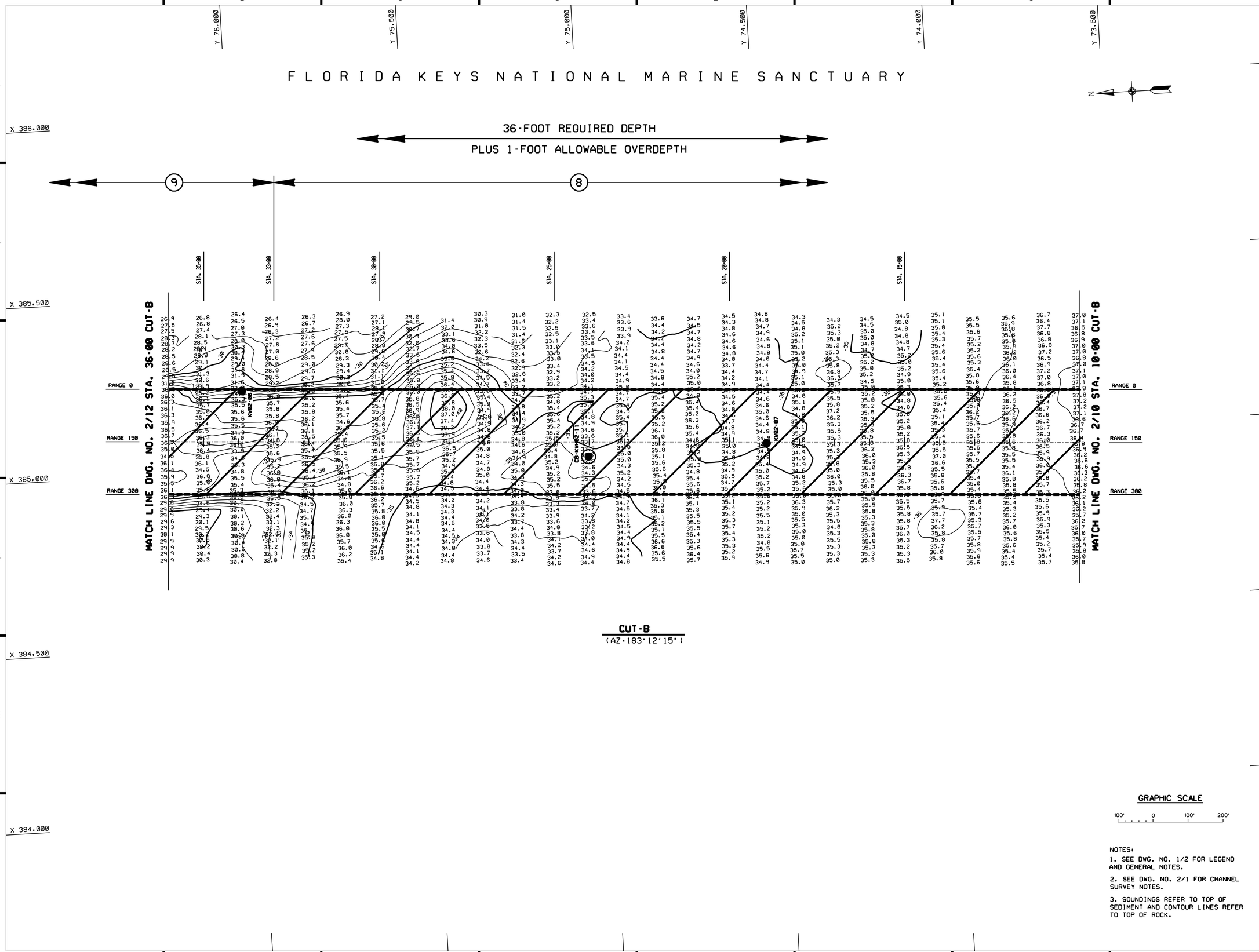
DREDGING
34-FOOT PROJECT

MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR

DREDGING PLAN

DRAWING NO.
2/10

kwh2-10.dgn 07/02/2003 04:53:02 PM



NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

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: JWB
Dwn by: JWB
Ckd by: SRC
Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:
Dated: MARCH 2003
D.O. FILE NO. 21-38,378

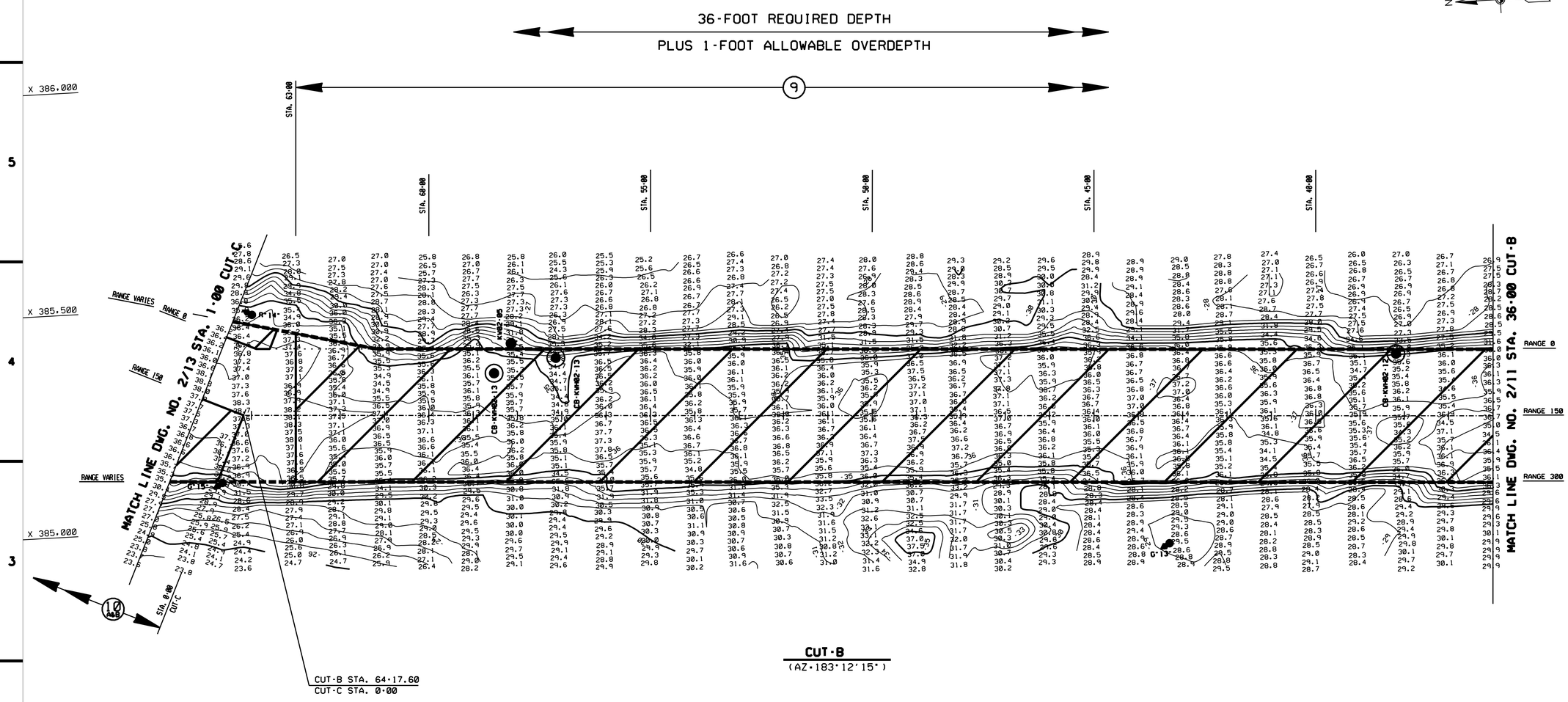
File name: KWH2-11.DGN
Reference files: KWH-BRDR.DGN, A29GEOM.DGN, D226SNDG.DGN, D226NAVD.DGN, DRG-AREA.DGN, TOPROCK.DGN, GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
DREDGING PLAN

DRAWING NO.
2/11

kwh2-11.dgn 07/02/2003 04:53:03 PM

FLORIDA KEYS NATIONAL MARINE SANCTUARY



AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
G"13"	384.849	76.959
R"14"	385.478	78.997
G"15"	358.104	79.084

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

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

Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Date: MARCH 2003
D.O.FILE NO. 21-38,378

File name: KWH2-12.DGN
Reference files:
KWH-BRGR.DGN
A2SEGDM.DGN
D2SEGDM.DGN
D226NAVD.DGN
DRG-AREA.DGN
TOPROCK.DGN
GEOTECH.DGN

KEY WEST HARBOR, FLORIDA

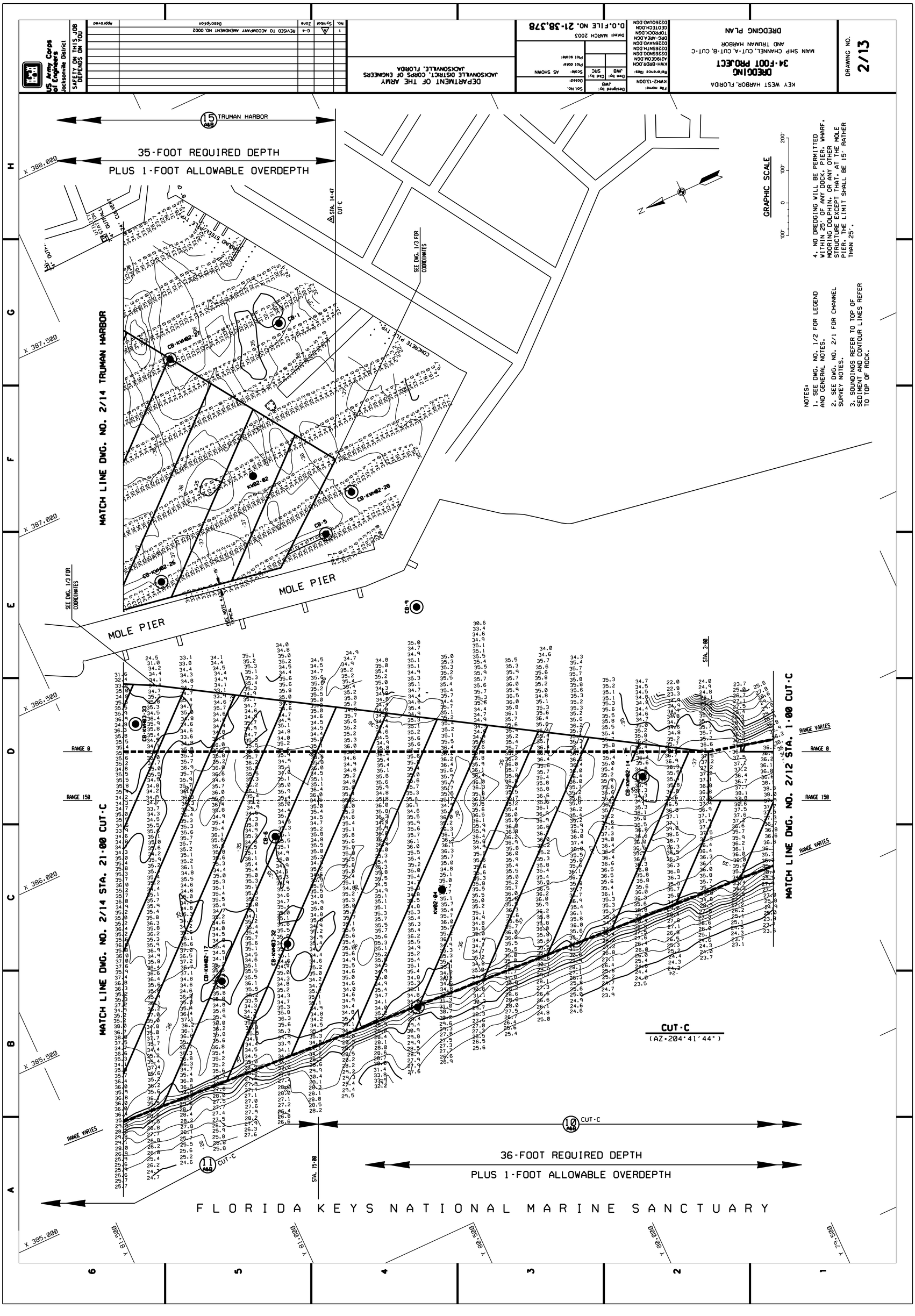
DREDGING
34-FOOT PROJECT

MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR

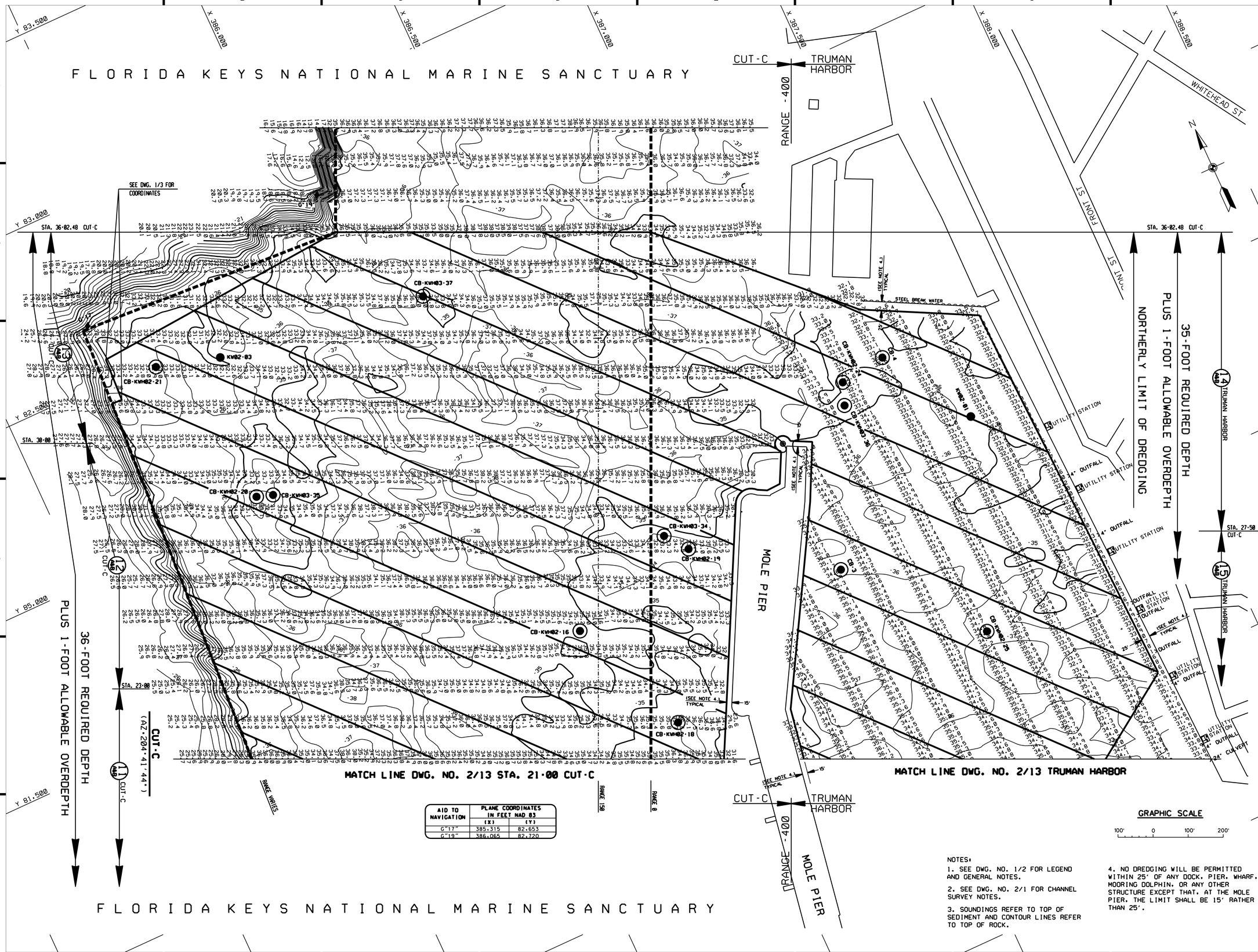
DREDGING PLAN

DRAWING NO.
2/12

kwh2-12.dgn 07/02/2003 04:53:05 PM



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
D.O.FILE NO. 21-38,378
KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR
DREDGING PLAN
DRAWING NO.
2/13
35-FOOT REQUIRED DEPTH
PLUS 1-FOOT ALLOWABLE OVERDEPTH
TRUMAN HARBOR
MATCH LINE DWG. NO. 2/14 TRUMAN HARBOR
MOLE PIER
MATCH LINE DWG. NO. 2/12 STA. 1+00 CUT-C
MATCH LINE DWG. NO. 2/14 STA. 21+00 CUT-C
CUT-C
(AZ=204°41'44")
36-FOOT REQUIRED DEPTH
PLUS 1-FOOT ALLOWABLE OVERDEPTH
FLORIDA KEYS NATIONAL MARINE SANCTUARY
GRAPHIC SCALE
NOTES:
1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.
4. NO DREDGING WILL BE PERMITTED WITHIN 25' OF ANY DOCK, PIER, WHARF, MOORING DOLPHIN, OR ANY OTHER STRUCTURE EXCEPT THAT, AT THE MOLE PIER, THE LIMIT SHALL BE 15' RATHER THAN 25'.



AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 83	
	(X)	(Y)
G"17"	385,315	82,653
G"19"	386,065	82,720

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

3. SOUNDINGS REFER TO TOP OF SEDIMENT AND CONTOUR LINES REFER TO TOP OF ROCK.

4. NO DREDGING WILL BE PERMITTED WITHIN 25' OF ANY DOCK, PIER, WHARF, MOORING DOLPHIN, OR ANY OTHER STRUCTURE EXCEPT THAT, AT THE MOLE PIER, THE LIMIT SHALL BE 15' RATHER THAN 25'.

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

Sec. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Dated: MARCH 2003

D.O.FILE NO. 21-38,378

File name: KWH2-14.DGN

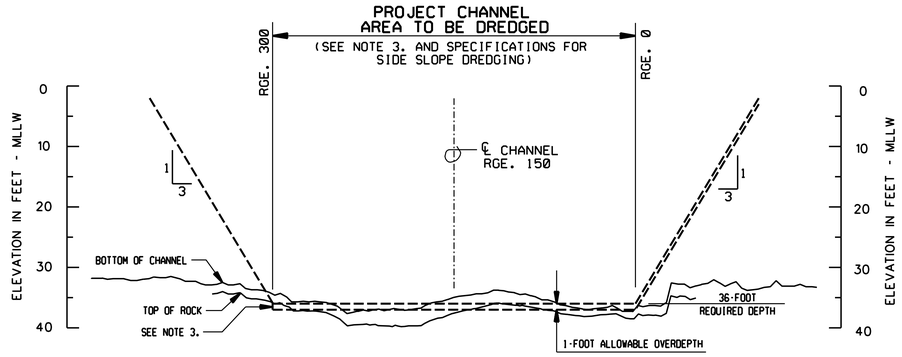
Reference files:
KWH-BROR.DGN
KW02SOUN.DGN
02SRSNO2.DGN
02SRSNTH.DGN
02SRWAYP.DGN
02SRMAPS.DGN
TOPROCK.DGN
GEOTECH.DGN
02SRGRID.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C
AND TRUMAN HARBOR

DREDGING PLAN

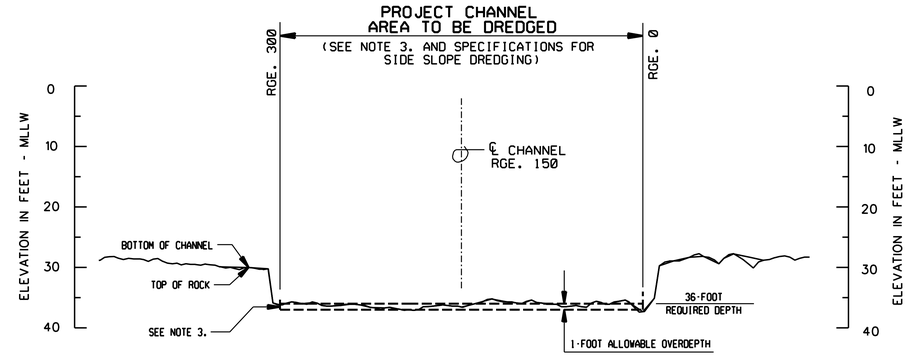
DRAWING NO.
2/14

kwh2-14.dgn 07/02/2003 04:53:11 PM



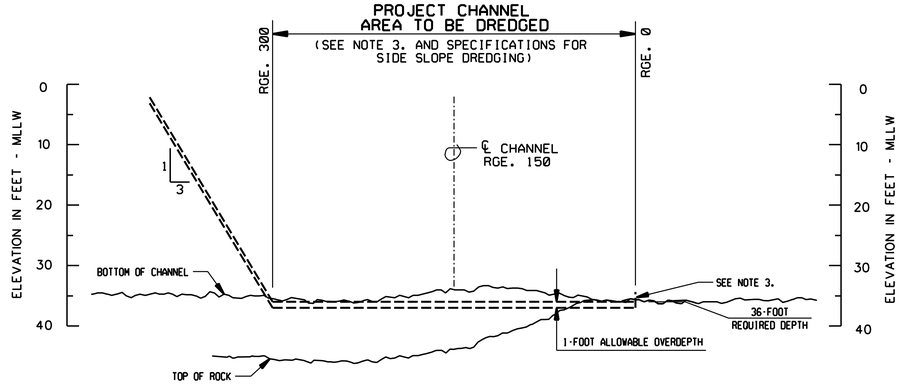
MAIN SHIP CHANNEL
STA. 30+00

SCALES: HORIZ. "A"
VERT. "B"



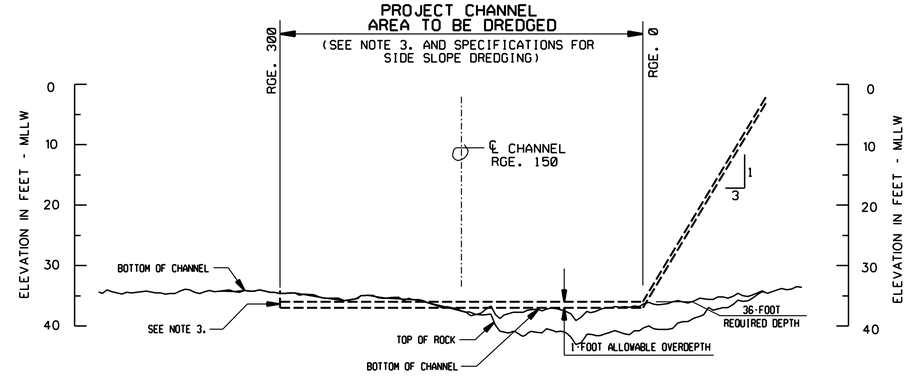
CUT-B
STA. 60+00

SCALES: HORIZ. "A"
VERT. "B"



MAIN SHIP CHANNEL
STA. 37+00

SCALES: HORIZ. "A"
VERT. "B"



CUT-B
STA. 28+00

SCALES: HORIZ. "A"
VERT. "B"

GRAPHIC SCALES

"A" 50' 0 50' 100'

"B" 10' 0 10' 20'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. SIDE SLOPES IN ROCK ARE ASSUMED TO BE VERTICAL.

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

Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

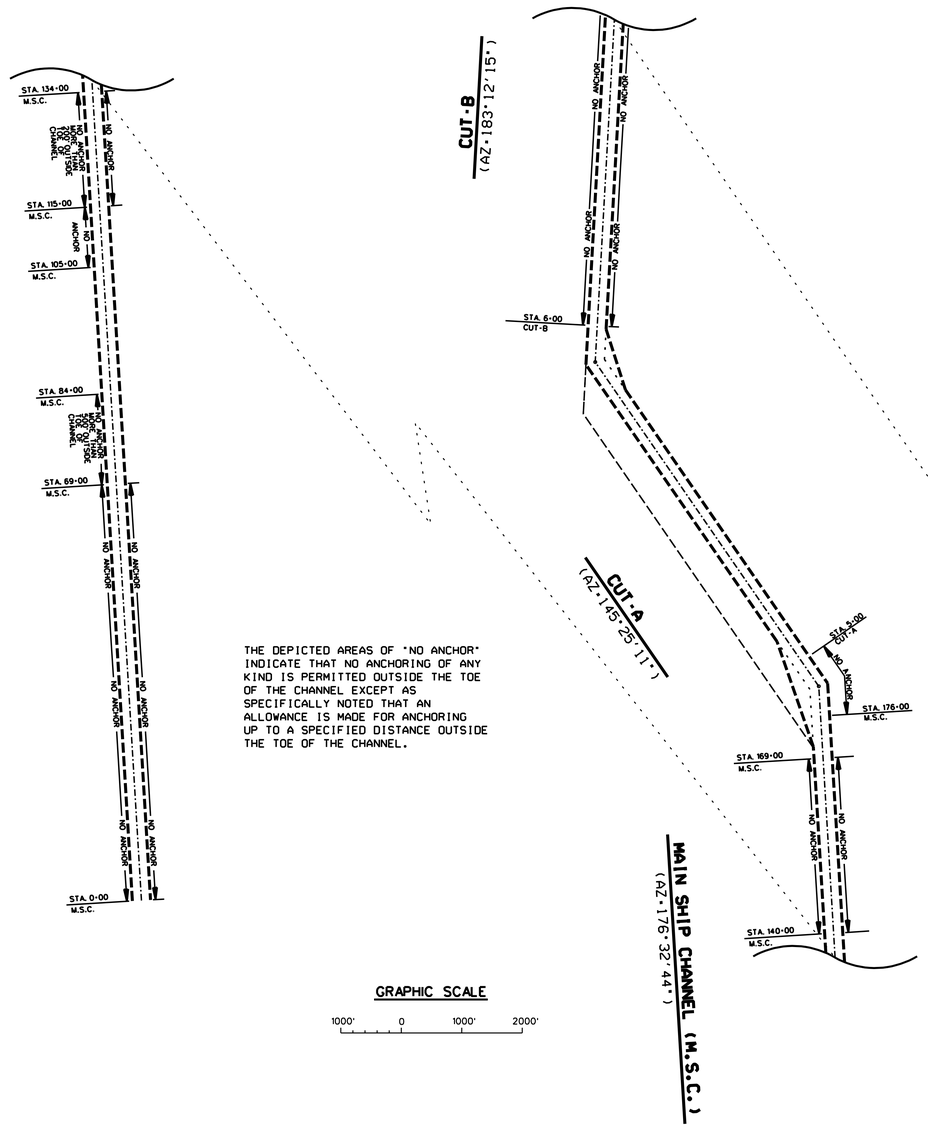
Dated: MARCH 2003
D.O.FILE NO. 21-38,378

File name: KWH1-01.DGN
Reference files: KWH-BROR.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
TYPICAL DREDGING SECTIONS

DRAWING NO.
2/15

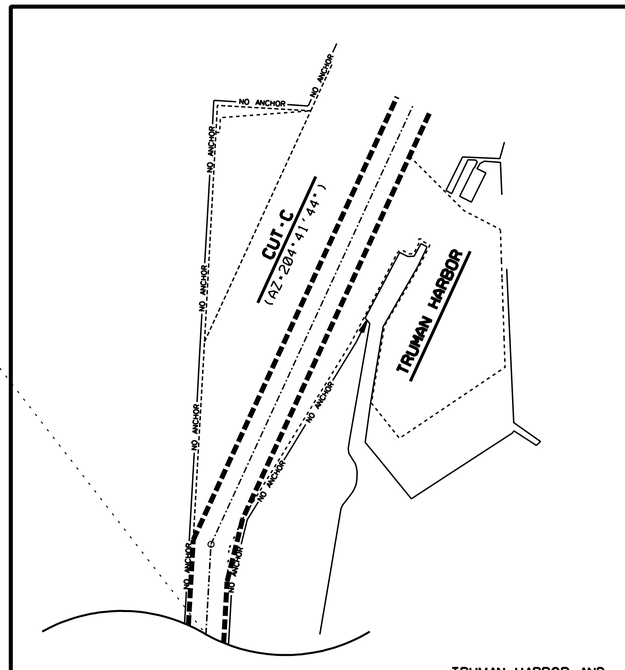
kwh2-15.dgn 07/02/2003 04:53:13 PM



THE DEPICTED AREAS OF "NO ANCHOR" INDICATE THAT NO ANCHORING OF ANY KIND IS PERMITTED OUTSIDE THE TOE OF THE CHANNEL EXCEPT AS SPECIFICALLY NOTED THAT AN ALLOWANCE IS MADE FOR ANCHORING UP TO A SPECIFIED DISTANCE OUTSIDE THE TOE OF THE CHANNEL.

GRAPHIC SCALE

1000' 0 1000' 2000'



TRUMAN HARBOR AND CUT-C TURNING BASIN

N.T.S.

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.

2. SEE DWG. NO. 2/1 FOR CHANNEL 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: JWB
Dwn by: JWB
Ckd by: SRC
Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:
File name: KWH2-16.DGN
Reference files: KWH-BROR.DGN
Dated: MARCH 2003
D.O.FILE NO. 21-38,378

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
NO ANCHOR AREAS

DRAWING NO.
2/16

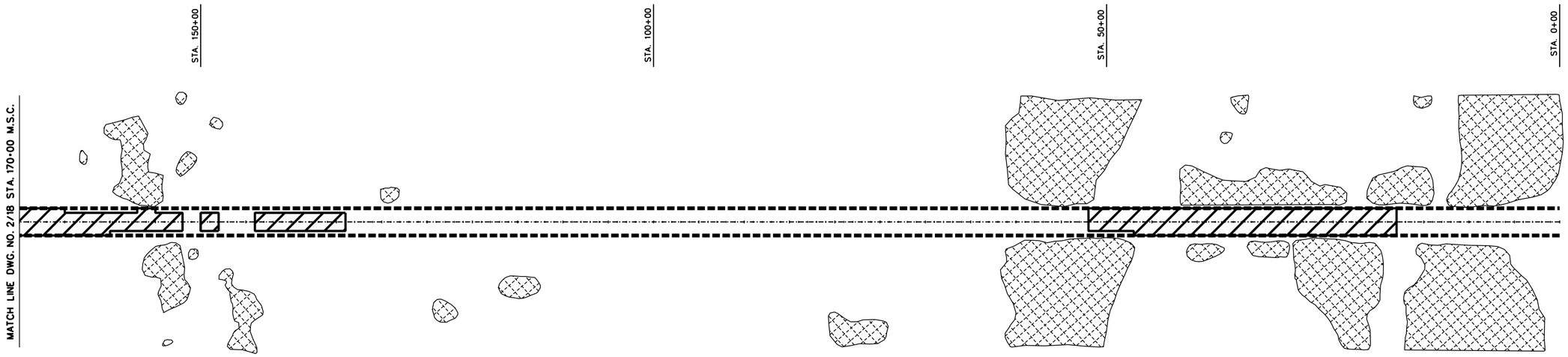
kwh2-16.dgn 07/02/2003 04:53:14 PM

RESOURCE MAP

THE RESOURCE AREAS DEPICTED ON THIS SHEET WILL BE USED IN CONJUNCTION WITH THE STANDARDS DESCRIBED IN THE SPECIFICATIONS TO ESTABLISH THE LOCATION OF THE TURBIDITY MONITORING STATIONS. TURBIDITY MONITORING FOR COMPLIANCE WITH THE STANDARDS WILL BE DONE BY AN INDEPENDENT CONTRACTOR HIRED BY THE GOVERNMENT.

LEGEND FOR THIS SHEET:

RESOURCE AREA



MAIN SHIP CHANNEL (M.S.C.)

GRAPHIC SCALE

500' 0 500' 1000'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
	1	H-1	SHEET ADDED TO ACCOMPANY AMENDMENT NO. 0002	

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

Designed by: JWB
Dwn by: JWB
Ckd by:
Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:
File name: kwh1-01.DGN
Reference files: KWH-BRDR.DGN A2-BGCAL.DGN BNDY-CAL.DGN RESOURCE.DGN
Dated: MARCH 2003
D.O.FILE NO. 21-38.378

KEY WEST HARBOR, FLORIDA
DREDGING 34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
RESOURCE MAP

DRAWING NO.
2/17
1

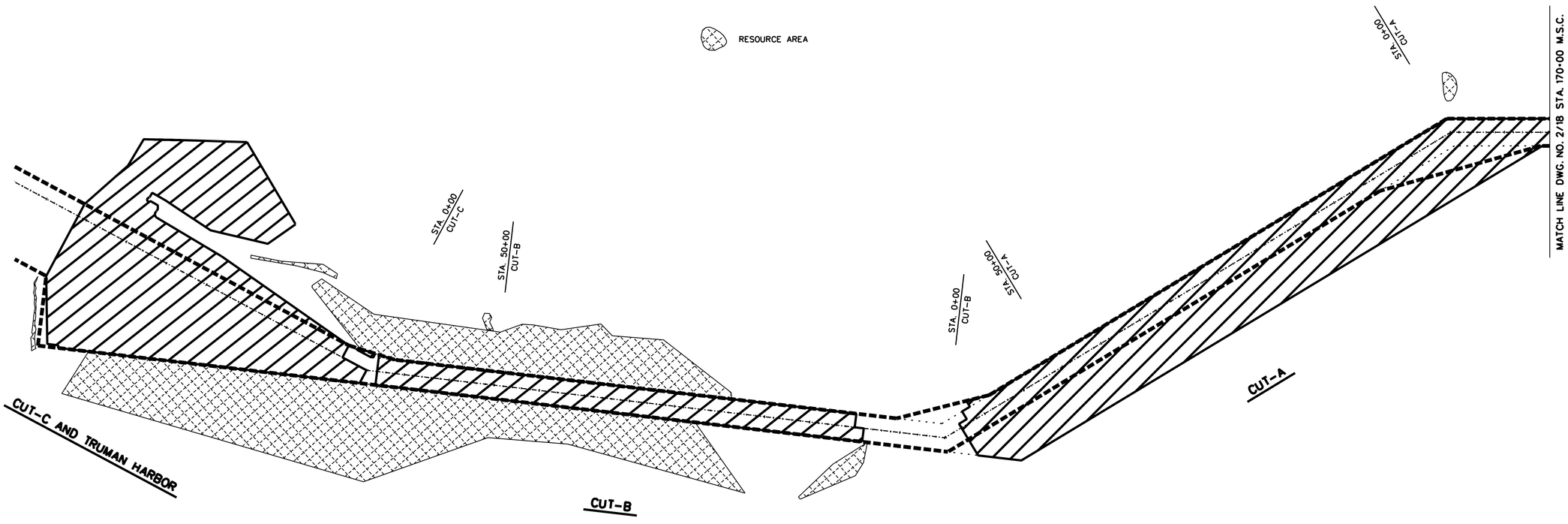
kwh2-17.dgn 08/06/2003 04:34:39 PM

RESOURCE MAP

THE RESOURCE AREAS DEPICTED ON THIS SHEET WILL BE USED IN CONJUNCTION WITH THE STANDARDS DESCRIBED IN THE SPECIFICATIONS TO ESTABLISH THE LOCATION OF THE TURBIDITY MONITORING STATIONS. TURBIDITY MONITORING FOR COMPLIANCE WITH THE STANDARDS WILL BE DONE BY AN INDEPENDENT CONTRACTOR HIRED BY THE GOVERNMENT.

LEGEND FOR THIS SHEET:

RESOURCE AREA



GRAPHIC SCALE

500' 0 500' 1000'

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
		H-1	SHEET ADDED TO ACCOMPANY AMENDMENT NO. 0002	

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

Sol. No.
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by:

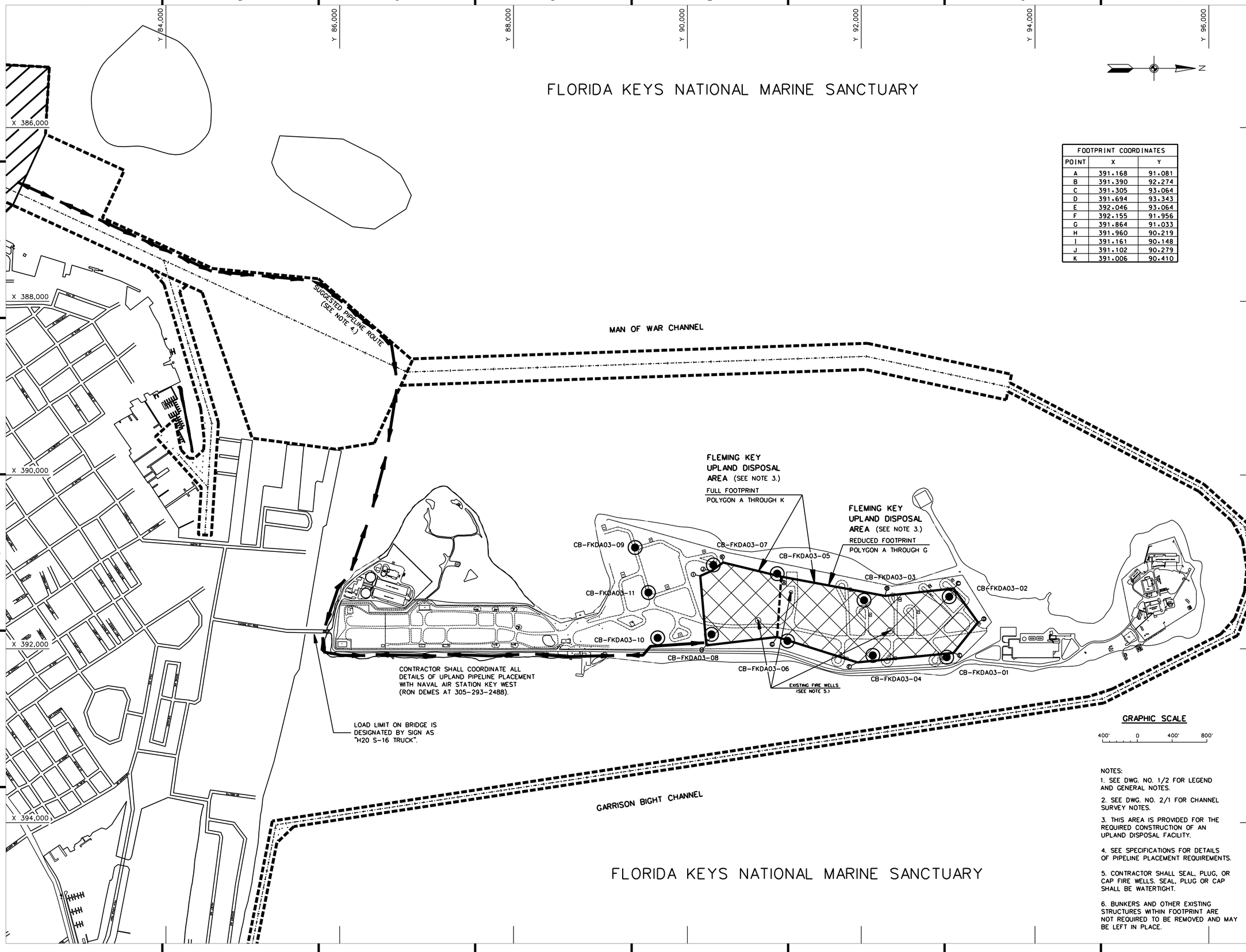
Dated: MARCH 2003
D.O.FILE NO. 21-38,378

File name: KWH1-01.DGN
Reference files: KWH-BRDR.DGN ACTSHC-ECM.DGN ACTSHC-ECM.DGN RESOURCE.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
RESOURCE MAP

DRAWING NO.
2/18

kwh2-18.dgn 08/06/2003 04:34:40 PM



FOOTPRINT COORDINATES		
POINT	X	Y
A	391.168	91.081
B	391.390	92.274
C	391.305	93.064
D	391.694	93.343
E	392.046	93.064
F	392.155	91.956
G	391.864	91.033
H	391.960	90.219
I	391.161	90.148
J	391.102	90.279
K	391.006	90.410

NOTES:

1. SEE DWG. NO. 1/2 FOR LEGEND AND GENERAL NOTES.
2. SEE DWG. NO. 2/1 FOR CHANNEL SURVEY NOTES.
3. THIS AREA IS PROVIDED FOR THE REQUIRED CONSTRUCTION OF AN UPLAND DISPOSAL FACILITY.
4. SEE SPECIFICATIONS FOR DETAILS OF PIPELINE PLACEMENT REQUIREMENTS.
5. CONTRACTOR SHALL SEAL, PLUG, OR CAP FIRE WELLS. SEAL, PLUG OR CAP SHALL BE WATERTIGHT.
6. BUNKERS AND OTHER EXISTING STRUCTURES WITHIN FOOTPRINT ARE NOT REQUIRED TO BE REMOVED AND MAY BE LEFT IN PLACE.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
1	△	H-1	SHEET REPLACED TO ACCOMPANY AMENDMENT NO. 0002	

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

Sec No.
Date:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by: JWB
Dwn by: JWB
Ckd by: SRC

Date: MARCH 2003
D.O.FILE NO. 21-38.378

File name: KWH3-01.DGN
Reference files: KWH-BRDR.DGN, A2-BGCLM.DGN, D2-DGN-LM.DGN, DRC-AREA.DGN, FLEMKEY2.DGN, FK-GEOTECH.DGN

KEY WEST HARBOR, FLORIDA
DREDGING
34-FOOT PROJECT
MAIN SHIP CHANNEL, CUT-A, CUT-B, CUT-C AND TRUMAN HARBOR
UPLAND DISPOSAL AREA SITE PLAN

DRAWING NO.
3/1
△

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