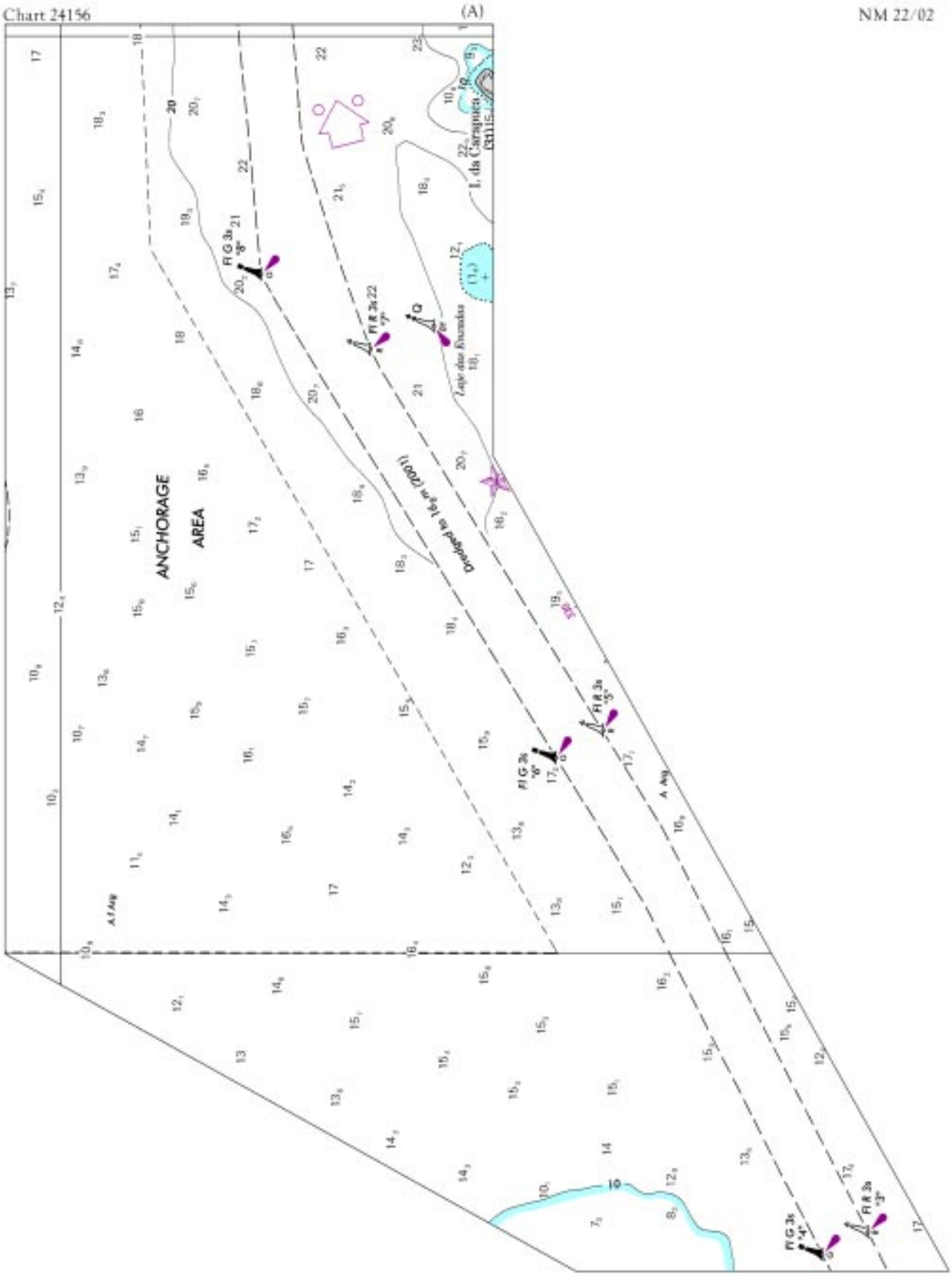
Chart 24156
(A)
NM 22/02
ANCHORAGE
AREA
I. da Carapuca
Laje das Enxadas
Dredged to 16m (2001)
A Arg
A Arg

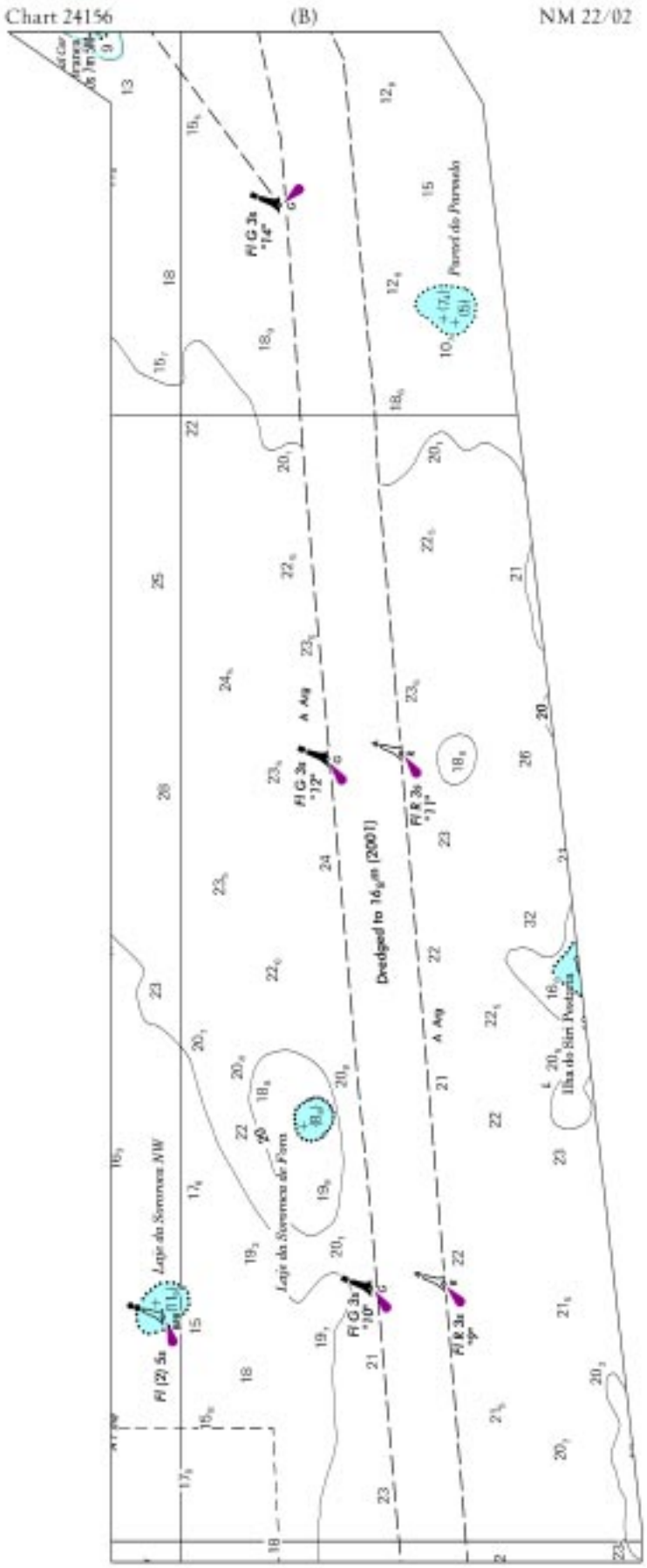
Chart 24156
(B)
NM 22/02
Parcel do Parcelo
Dredged to 16 m (2001)
Laje da Sorrenca NW
Laje da Sorrenca de Fora
Ilha do Siri Postaria
Fl G 3s "14"
Fl G 3s "12"
Fl R 3s "11"
Fl G 3s "10"
Fl R 3s "9"
Fl (2) 5s

Chart 24156 (C) NM 22/02

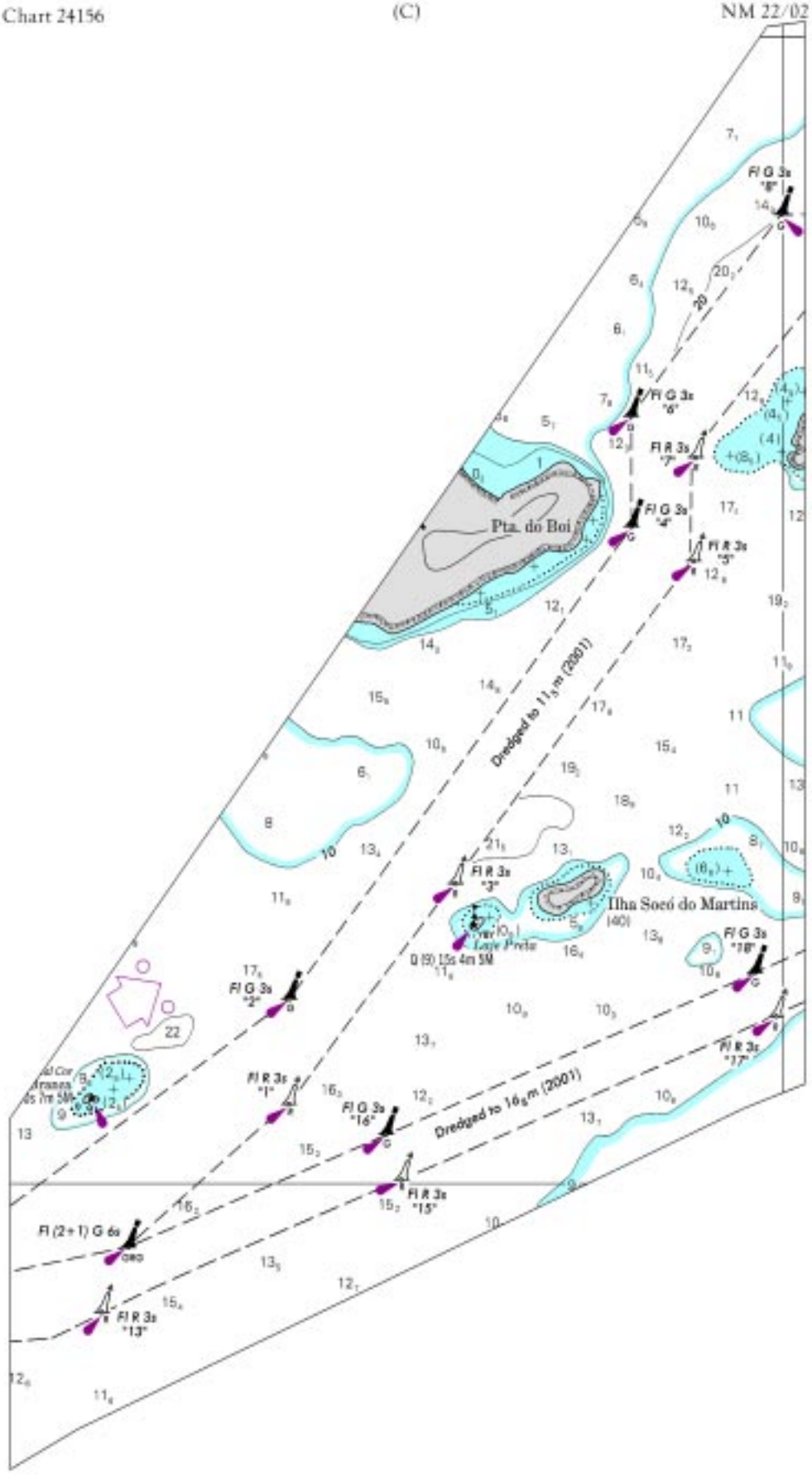

Chart 24156 (D) NM 22/02

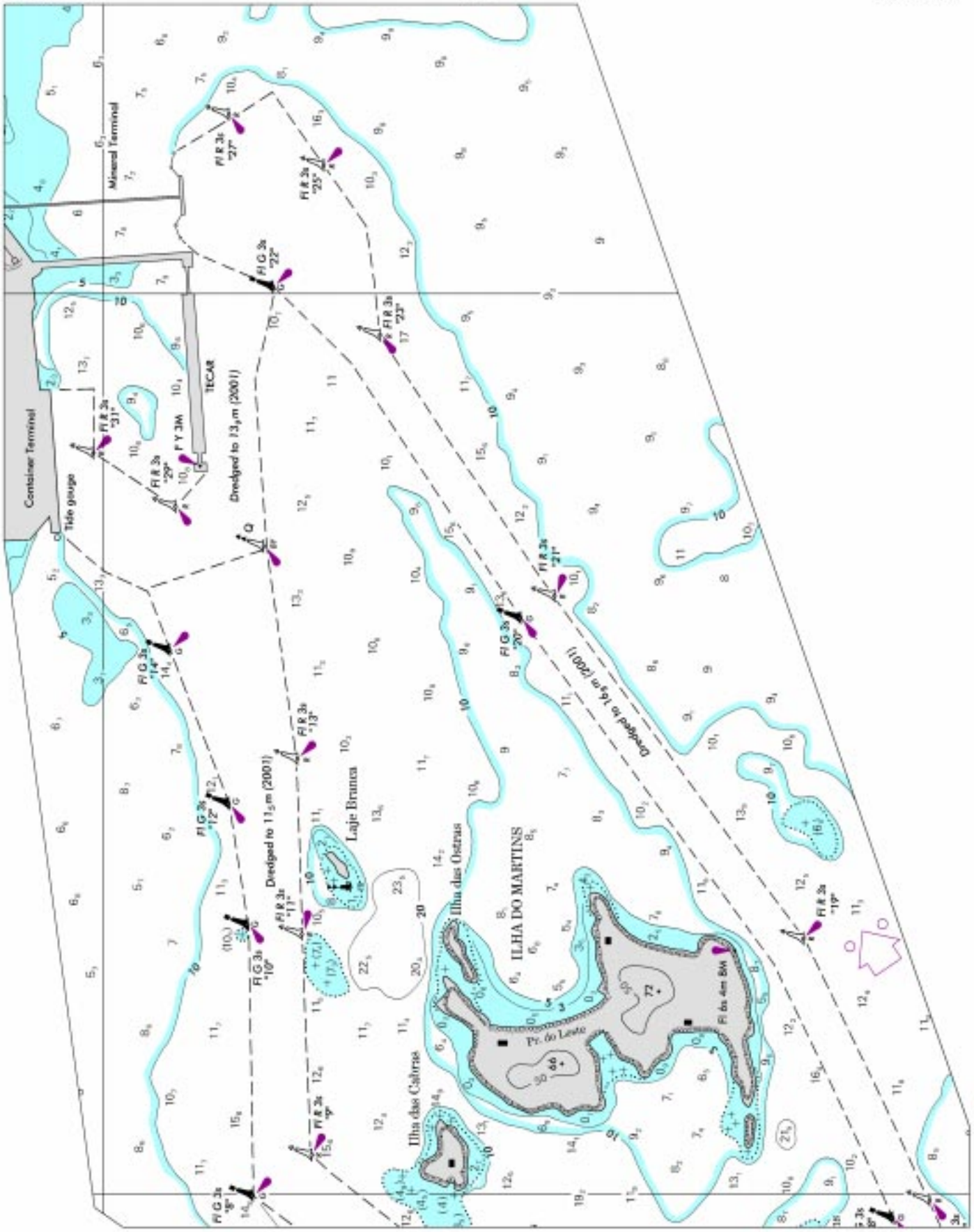

Chart 24162 NM 22/02

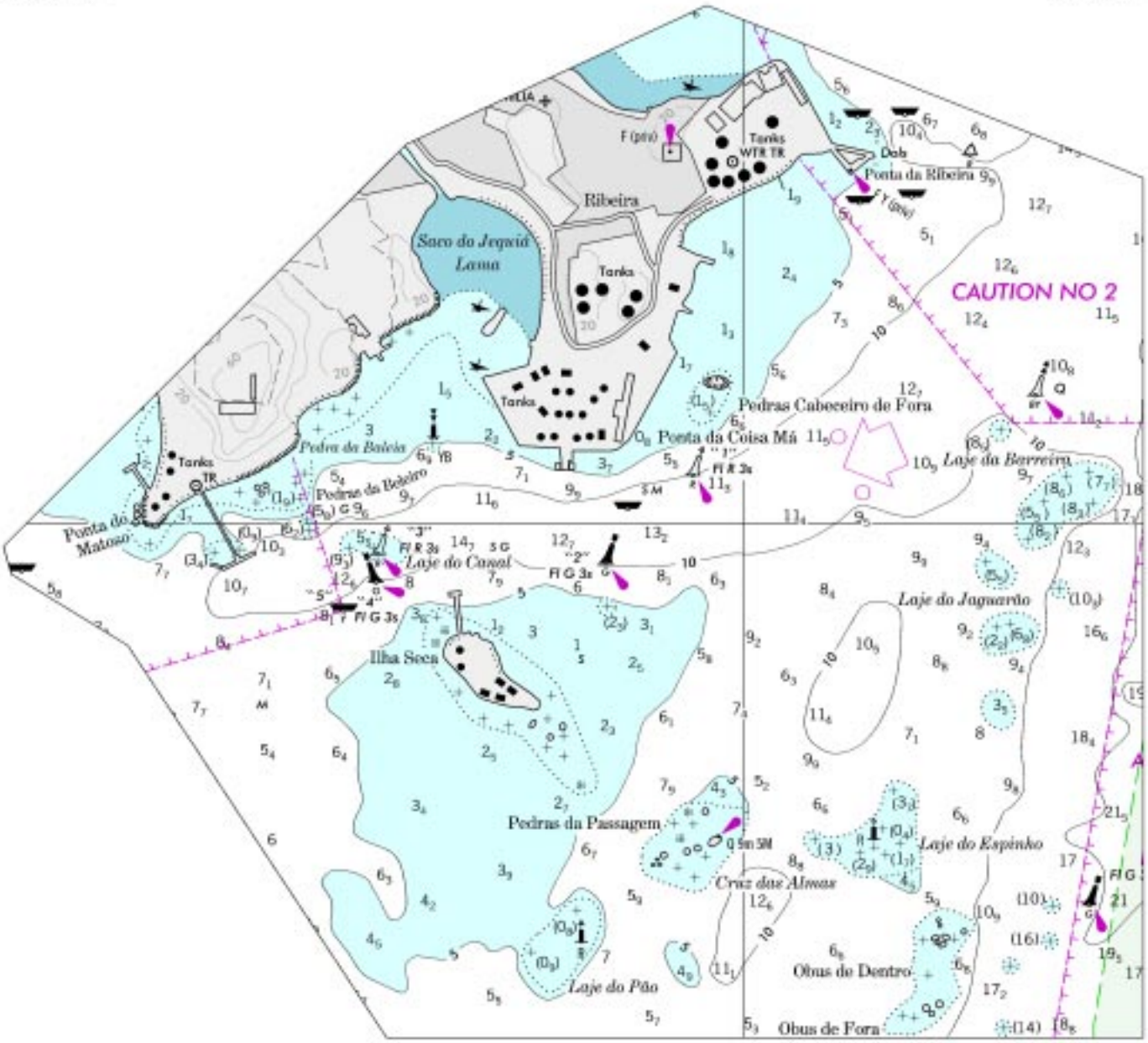

Chart 11491 (Side B) NM 22/02

ST. JOHNS RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002
AND SURVEYS TO FEB 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
QUARANTINE I. UPPER RANGE	39.4	38.6	38.8	37.7	8-01	1000-550	0.7	38
BRILLS CUT RANGE	38.8	39.5	38.9	36.3	8-01	550-450	0.8	38
BROWARD POINT TURN	31.5	39.1	39.0	38.7	8-01	625-850	1.0	38
DRUMMOND CREEK RANGE	39.3	39.2	39.4	37.1	8-01	650-400	1.5	38
TROUT RIVER CUT RANGE	41.2	42.4	42.8	38.3	8-01	400-500	1.0	38
CHASEVILLE TURN	39.2	39.4	40.3	38.2	8-01	500-700	0.6	38
LONG BRANCH RANGE	37.0	39.8	40.8	38.5	8-01	650-2000	0.7	38
TERMINAL CHANNEL	25.0	30.0	23.2	21.6	11-01;2-02	575-1025	3.0	34-38

NOTE: THE RANGE LIGHTS DO NOT IN EVERY INSTANCE MARK THE CENTERLINE OF THE CHANNEL.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 22/02

NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002
AND SURVEYS TO DEC 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHAN. (EAST) A	38.3	39.3	37.8	31.4	6,7-01	800	3.5	35
SANDY HOOK CHANNEL	20.3	39.8	36.0	33.1	6,7-01	800	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	29.0	30.1	30.2	26.7	3,4-01	1000	2.7	30
NORTH CHANNEL	28.4	29.0	29.1	28.3	3,4-01	1000	1.8	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
KEYPORT HARBOR CHANNEL	4.5	6.6	6.6	5.0	4,5-99	200	0.9	8
RARITAN BAY EAST REACH	33.3	37.2	35.5	33.1	4-01	600	4.0	35
RARITAN BAY WEST REACH	33.4	39.1	39.2	33.9	4,9-01	600	2.4	35
SEGUINE POINT BEND	28.5	35.1	36.4	29.7	9-01	600-800	1.2	35
RED BANK REACH	34.0	40.3	40.5	34.2	9-01	600	1.2	35
WARD POINT BEND (EAST)	31.5	38.7	36.9	27.6	9,12-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.0	35.0	35.0	33.8	9,12-01	600-800	0.8	35
RARITAN RIVER CUT OFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-99	400	0.9	30
GREAT BEDS REACH	24.6	25.7	25.3	25.2	6-01	300	0.6	25
SOUTH AMBOY REACH	24.4	23.1	22.6	23.6	6-01	300	1.2	25

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 22/02

ARTHUR KILL, KILL VAN KULL, NEWARK BAY,
PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-
REPORT OF MAR 2002 AND SURVEYS TO OCT 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
ARTHUR KILL (OUTERBRIDGE REACH TO N. OF SHOOTERS I. REACH)	A27.3	800-800	5-89;2,3,4,5,9-01
KILL VAN KULL (CONSTABLE HOOK REACH TO BERGEN PT. WEST REACH)	34.0	2000-800	12-96;2-97;9,10-01
S. OF SHOOTERS I. REACH	B5.0	400	8-90
NEWARK BAY (NEWARK BAY S. REACH TO DROYERS PT. REACH)	C19.2	1750-300	1,2-01
PASSAIC RIVER (KEARNY PT. REACH TO ARLINGTON REACH)	D0.8	300-200	12-99;2-00
HACKENSACK RIVER (DROYERS PT. REACH TO TURNING BASIN)	14.4	300-800	4-01

A. A DEPTH OF 34.5 FEET WAS AVAILABLE IN THE MIDDLE HALF.
B. OBSTUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS.
THERE IS A MINIMUM DEPTH OF 5.9 FEET OVER WRECKAGE.
C. A DEPTH OF 21.9 FEET WAS AVAILABLE IN THE MIDDLE HALF,
EXCEPT FOR SHOALING TO 6.4 FT AT 40° 42' 11.4" N 74° 08' 56.1" W.
D. A DEPTH OF 6.4 FEET WAS AVAILABLE IN THE MIDDLE HALF.

NOTE 1. SEE LARGE SCALE CHARTS FOR MORE DETAIL OF REACHES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 12331 NM 22/02

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002
AND SURVEYS TO DEC 2001

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
RARITAN BAY WEST REACH	33.4	39.1	39.2	33.9	4,9-01	600	2.4	35
SEGUINE POINT BEND	35.5	35.1	39.4	39.7	9-01	600-800	1.2	35
RED BANK REACH	34.0	40.3	40.5	34.2	9-01	600	1.2	35
WARD POINT BEND (EAST)	31.5	38.7	36.9	27.6	9,12-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.0	35.0	35.0	33.8	9,12-01	600-800	0.8	35
OUTERBRIDGE REACH	34.4	35.7	35.9	36.0	5,9-01	800-600	0.8	35
PORT SOCONY REACH	33.0	35.5	35.3	32.9	5-01	600-800	0.8	35
PORT READING REACH	24.3	35.2	35.6	32.6	5-01	500	1.8	35
FRESH KILLS REACH	30.0	35.2	36.5	34.4	2,3-01	800	1.8	35
RARITAN RIVER CUTOFF	10.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-01	400	0.9	30
GREAT BEDS REACH	24.6	25.7	25.3	25.2	6-01	300	0.6	25
SOUTH AMBOY REACH	24.4	23.1	22.8	23.6	6-01	300	1.2	25

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12332 NM 22/02

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002 AND SURVEYS TO DEC 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
WARD POINT BEND (EAST)	31.6	38.7	36.9	27.6	9-12-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.0	35.0	35.0	33.0	9-12-01	600-800	1.3	35
OUTERBRIDGE REACH	34.4	35.7	35.9	35.0	5,9-01	600	1.6	35
RARITAN RIVER CUTOFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	30
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-01	400	0.9	30
GREAT BEDS REACH	24.6	25.7	25.3	25.2	6-01	300	0.6	25
SOUTH AMBOY REACH	24.4	23.1	22.8	23.6	6-01	300	1.2	25
SANDY POINT REACH	22.2	22.0	18.6	23.8	6-01	300	0.9	25
KEASBEY REACH	16.3	19.8	23.2	20.7	6-01	300	0.9	25
RED ROOT REACH	13.5	16.7	17.6	14.6	6-01	300	1.5	25
CRAB ISLAND REACH	15.0	14.5	14.5	12.5	9-88	200	1.2	15
NORTHWEST REACH	A8.0	A7.5	A7.5	12.2	7-82	200	1.2	15
TITANIUM REACH	4.1	4.0	1.9	1.6	6-01	300	0.6	25
SOUTH CHANNEL	C2.0	D4.2	B4.2	B2.1	7-82;3,4-90	150	0.7	15-10

A. SHOALS LOCATED OPPOSITE RARITAN RIVER LIGHT 30 TO 400 YARDS SOUTH; A DEPTH OF 10 FEET FOR A WIDTH OF 200 FEET WAS AVAILABLE TO THE WEST OF THE PROJECT CHANNEL.
B. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'34.4"N, 74°19'03.0"W.
C. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'35.4"N, 74°19'04.5"W.
D. POSSIBLE 4 FT OBSTRUCTION LOCATED IN 40°29'37.4"N, 74°19'04.6"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12333 NM 22/02

ARTHUR KILL, KILL VAN KULL, NEWARK BAY AND UPPER BAY CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP-OCT 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
FRESH KILLS REACH	30.0	35.2	36.5	34.4	2,3-01	500	1.8	35
TREMLEY POINT REACH	33.3	37.7	36.9	32.0	2,3-01	600	0.9	35
PRALLS ISLAND REACH	30.8	34.8	36.1	31.0	2,3-01	500	1.2	35
GULFPORT REACH	27.3	37.0	37.0	31.0	2,3-01	500-600	1.1	35
ELIZABETHPORT REACH	32.4	35.9	35.3	31.1	1,2-01	500-600	1.1	35
N OF SHOOTERS ISLAND REACH	33.0	34.5	35.6	33.9	5-99	600	1.0	35
S OF SHOOTERS ISLAND REACH	18.6	24.1	14.0	A. 5.0	8-90	400	1.0	30
BERGEN PT. WEST REACH	38.1	40.0	40.0	37.1	12-96;2-97;5-99	800	1.1	35
BERGEN PT. EAST REACH	37.4	40.0	40.0	39.5	12-96;2-97	800	1.0	35
CONSTABLE HOOK REACH	34.0	40.0	40.0	34.9	12-96;2-97;8,10-01	2000-800	2.2	35
NEWARK BAY SOUTH REACH	38.1	40.2	41.0	33.0	1,2-01	1750-1000	1.4	40
NEWARK BAY MIDDLE REACH	35.5	39.6	38.4	32.3	1,2-01	1750-500	1.4	40
ELIZABETH CHANNEL	36.4	38.6	39.9	37.3	3-99;1,2-01	1350-500	1.4	40
PORT NEWARK CHANNEL:								
PORT NEWARK(BRANCH CHANNEL)	33.0	35.7	33.5	33.2	1,2-01	1050-400	0.4	40
PIERHEAD CHANNEL	33.8	35.6	35.0	33.4	1,2-01	300	0.7	40

A. OBSTRUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FT OVER WRECKAGE.
* CONTROLLING DEPTHS IN CHANNELS OF RARITAN BAY- EAST REACH TO AND INCLUDING FRESH KILLS REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM LOWER NEW YORK BAY. CONTROLLING DEPTHS FROM CONSTABLE HOOK TO AND INCLUDING TREMLEY POINT REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM UPPER NEW YORK BAY.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12375 NM 22/02

CONNECTICUT RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 1999
AND SURVEYS TO MARCH 1999

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SAYBROOK OUTER BAR CHANNEL	7.5	10.0	9.9	3-99	300	0.5	15
SAYBROOK SHOAL CHANNEL	7.8	8.0	8.4	3-99	300	0.7	15
CALVES ISLAND BAR CHANNEL	11.6	11.8	12.5	3-99	200-150	0.8	15
ESSEX SHOAL CHANNEL	12.2	11.3	10.9	3-99	150	0.5	15
BROCKWAY BAR CHANNEL	10.4	10.9	11.5	3-99	150	0.4	15

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12377 NM 22/02

CONNECTICUT RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 1999
AND SURVEYS TO JUNE 1999

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BROCKWAY BAR CHANNEL	10.4	10.0	11.5	3-99	150	0.4	15
POTASH BAR CHANNEL	10.9	11.1	11.1	3-99	150	0.4	15
EDDY ROCK SHOAL CHANNEL	13.2	12.1	12.0	3-99	200-150	0.4	15
WARNERS QUARRY BAR CHANNEL	14.5	14.0	12.9	5-86	200-150	0.5	15
HADDAM ISLAND BAR CHANNEL	13.9	14.0	13.1	8-83	150	0.3	15
ROCK LANDING BAR CHANNEL	10.8	10.6	10.2	6-86	150	0.6	15
HIGGANUM CREEK SHOAL CHANNEL	13.7	14.0	13.8	8-84	150	0.3	15
SCOVILL ROCK BAR CHANNEL	15.8	14.9	14.3	10-89	150	0.4	15
SEARS SHOAL CHANNEL	9.5	9.8	9.9	6-88	150	0.5	15
SEARS UPPER BAR CHANNEL	12.7	13.2	13.7	12-07	150	0.5	15
COBALT SHOAL CHANNEL	13.5	14.1	15.0	6-70	150	0.9	15
PAPER ROCK SHOAL CHANNEL	13.8	13.7	13.4	5-86	150	0.5	15

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12401 NM 22/02

NEW YORK HARBOR-LOWER BAY-CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002
AND SURVEYS TO SEP 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	43.3	44.7	44.9	28.4	9-99	2000	9.2	45
SANDY HOOK CHAN. (EAST)A	38.3	39.0	37.8	31.4	6,7-01	A600	3.5	A35
SANDY HOOK CHANNEL	20.3	39.8	36.0	33.1	6,7-01	600	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	29.0	30.1	30.2	26.7	3,4-01	1000	2.7	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	9-97	400	0.8	35
RARITAN BAY EAST REACH	33.3	37.2	35.5	33.1	4-01	600	4.0	35
RARITAN BAY WEST REACH	33.4	39.1	38.2	33.9	4,9-01	600	2.4	35

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION