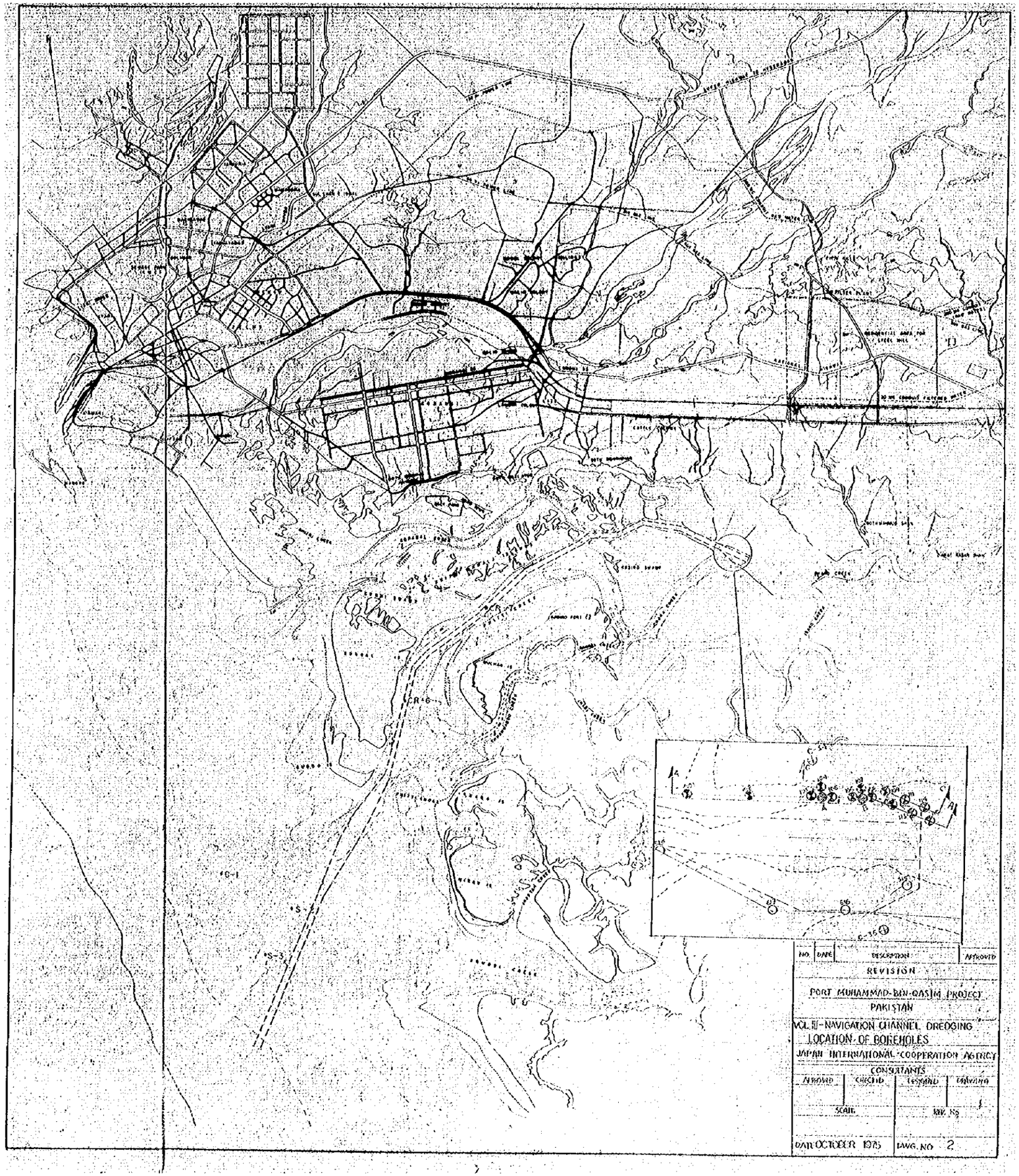
PORT MUHAMMAD - BIN - QASIM PROJECT

DETAILED DESIGN DRAWINGS

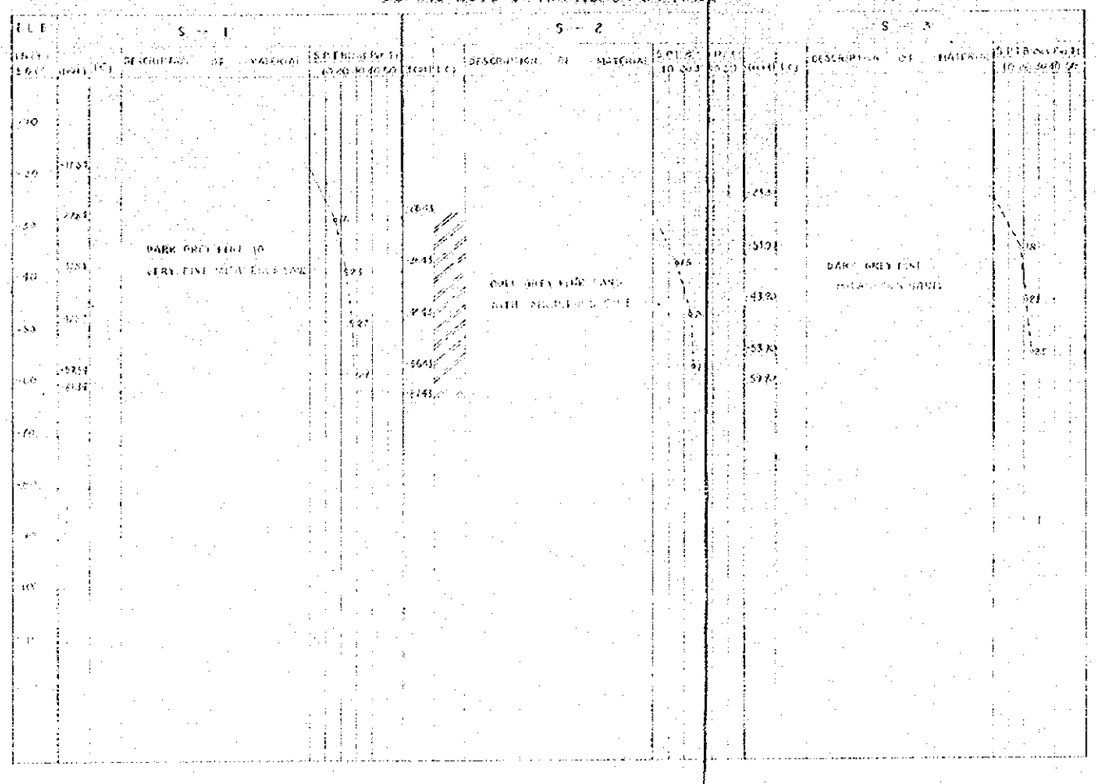
VOL. III NAVIGATION CHANNEL DREDGING

OCTOBER 1975

JAPAN INTERNATIONAL COOPERATION AGENCY


REVISION
NO. DATE DESCRIPTION APPROVED
PORT MUHAMMAD BIN QASIM PROJECT
PAKISTAN
VOL. II - NAVIGATION CHANNEL DREDGING
LOCATION OF BOREHOLES
JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS
APPROVED CHECKED DESIGNED DRAWING
SCALE
DRG. NO.
DATE OCTOBER 1975
DWG. NO. 2

BORING LOGS OF APPROACH CHANNEL



REVISIONS

PORT MUHAMMAD BIN QASIM PROJECT
PAKISTAN

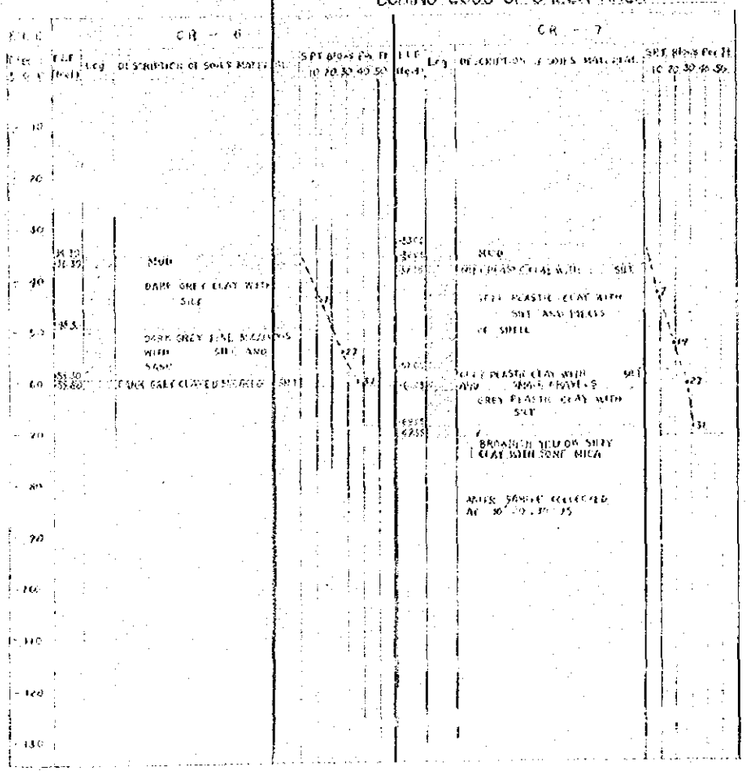
VOL.III-NAVIGATION CHANNEL DREDGING

BORING LOGS - APPROACH CHANNEL

CONSULTANTS

DATE OCTOBER 1975 DWG. NO. 3-1

BORING LOGS OF CREEK AREA



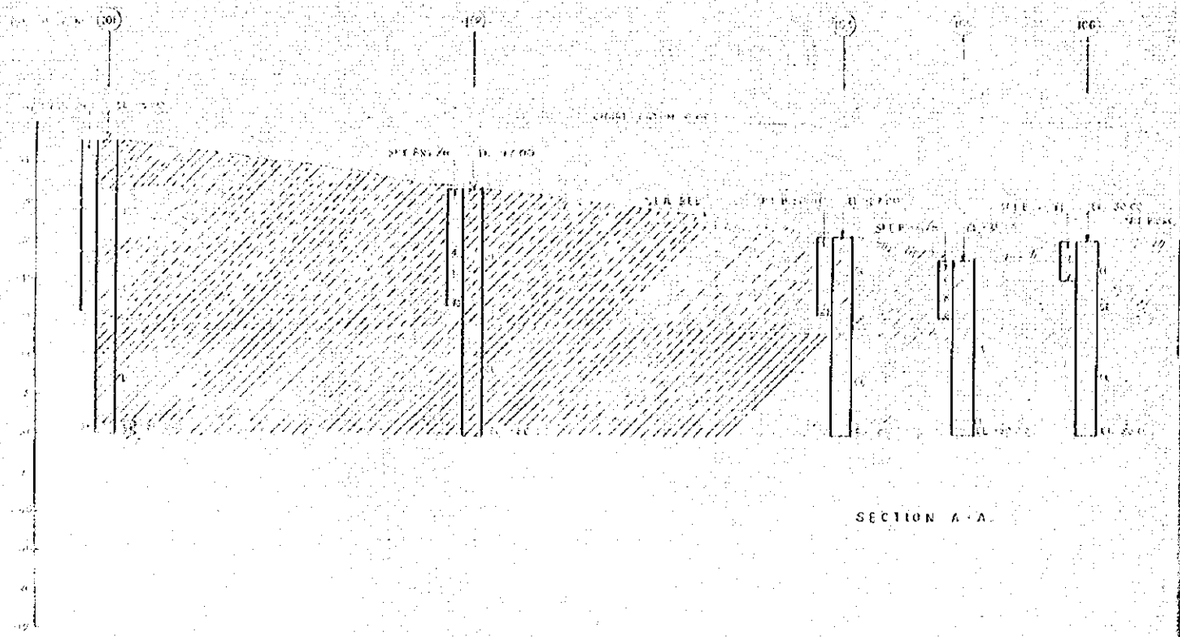
	SPECIFICATION	SHEET NO.
	REVISION	

MOLE-NAVIGATION CHANNEL DREDGING

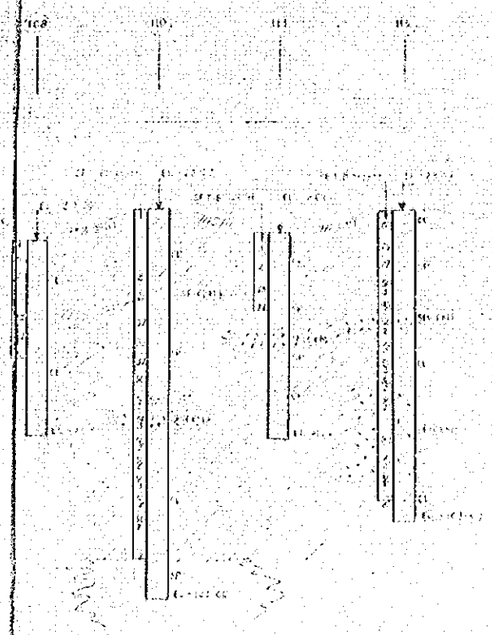
BORING LOGS -- INNER CHANNEL

COORDINATES

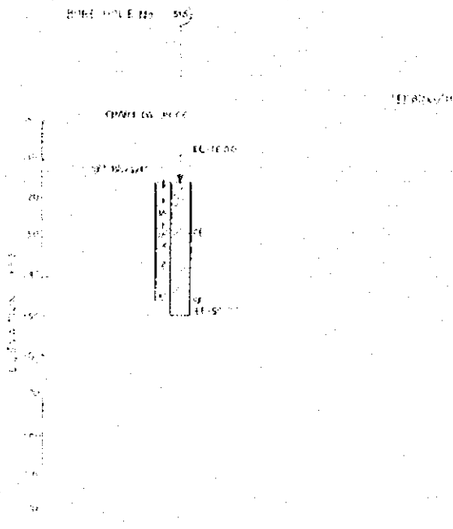
DATE OCTOBER 1975 DWG. NO. 3-2



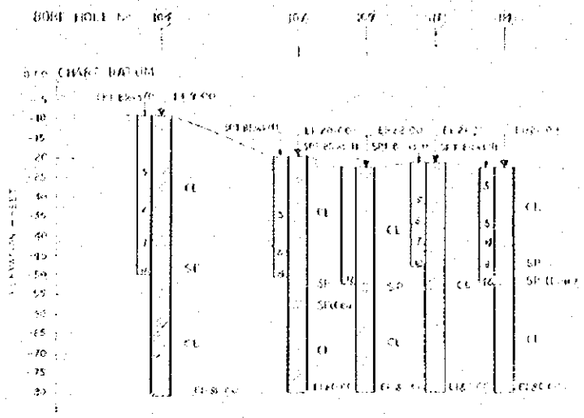
SECTION A-A



LEGEND



SECTION B-B



SECTION C-C

REVISION

VOL. II-NAVIGATION CHANNEL DREDGING

BORING LOGS - BERTH , TURNING BASIN

DATE OCTOBER 1975 DWG. NO. 3--3

67°3'00"

67°4'00"

67°5'00"

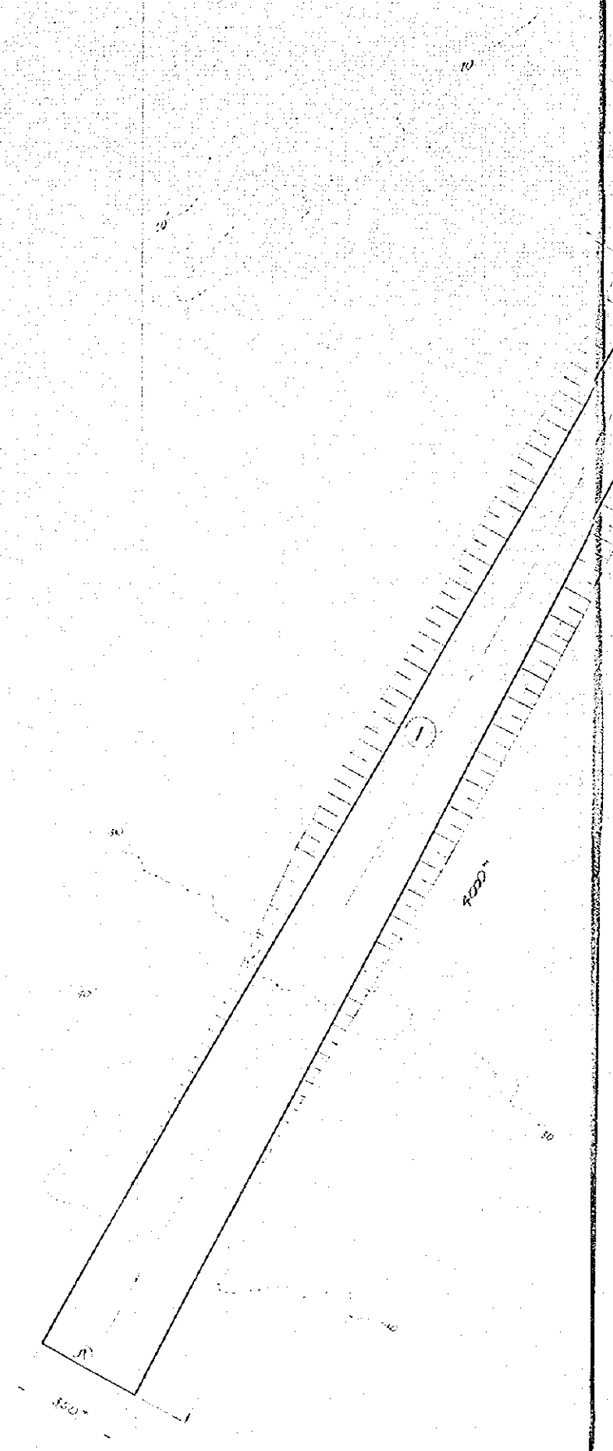
67°6'00"

24°36'00"

24°35'00"

24°34'00"

24°33'00"



REVISION			
NO.	DATE	DESCRIPTION	APPROVED

KEYTESIOH

DAMIETTA PORT DEVELOPMENT PROJECT
DAMIETTA

MOLE-NAVIGATION CHANNEL DREDGING

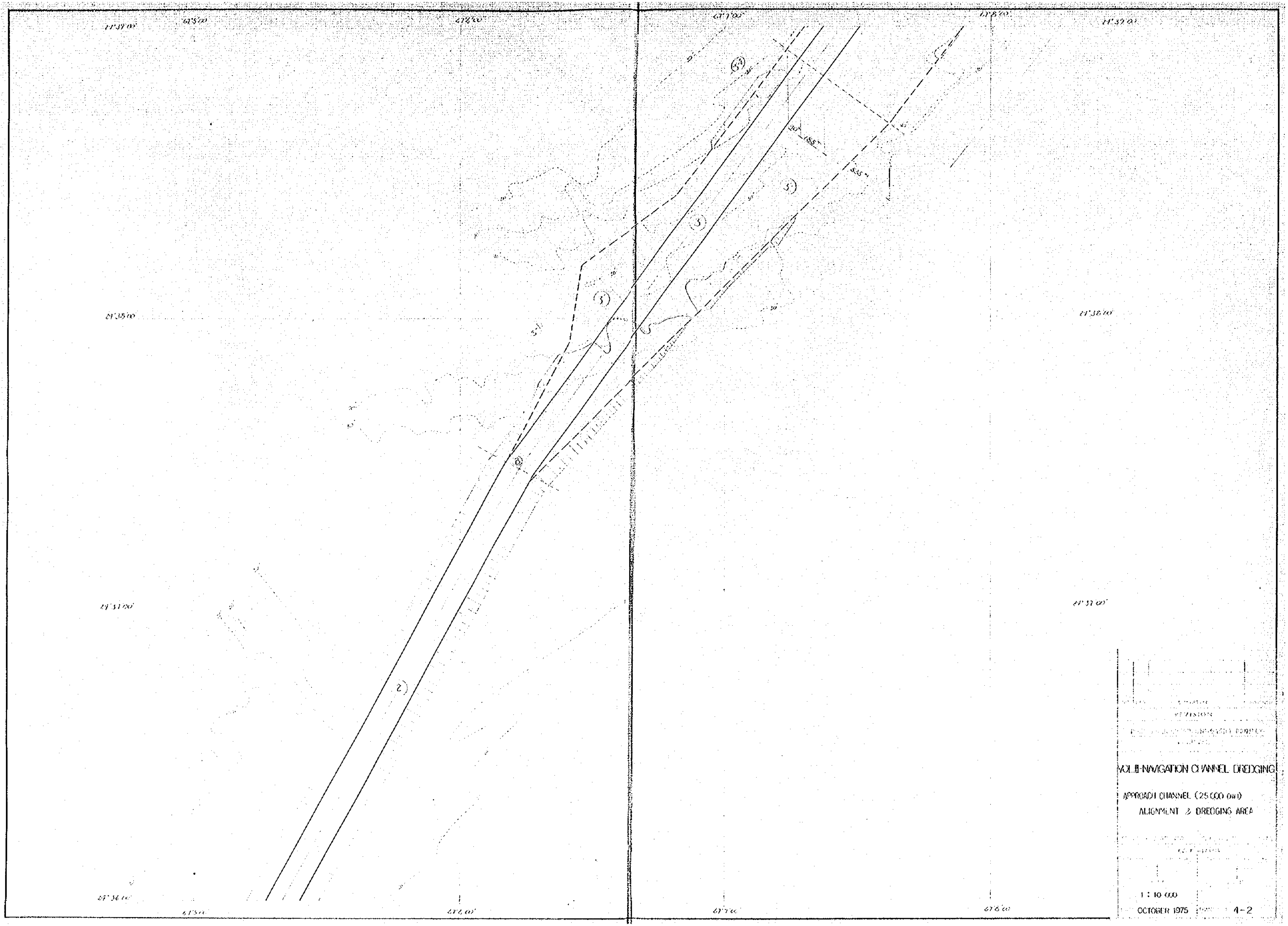
APPROACH CHANNEL (25000 DWT)
ALIGNMENT & DREDGING AREA

HARBOR DEVELOPMENT INTERNATIONAL CORPORATION (JAPAN)

DESIGNED	DRAWN	TRACED	CHECKED

SCALE 1 : 10 000

DATE OCTOBER 1975 DWG. NO. 4 — 1



REVISION

VOL.III-NAVIGATION CHANNEL DREDGING

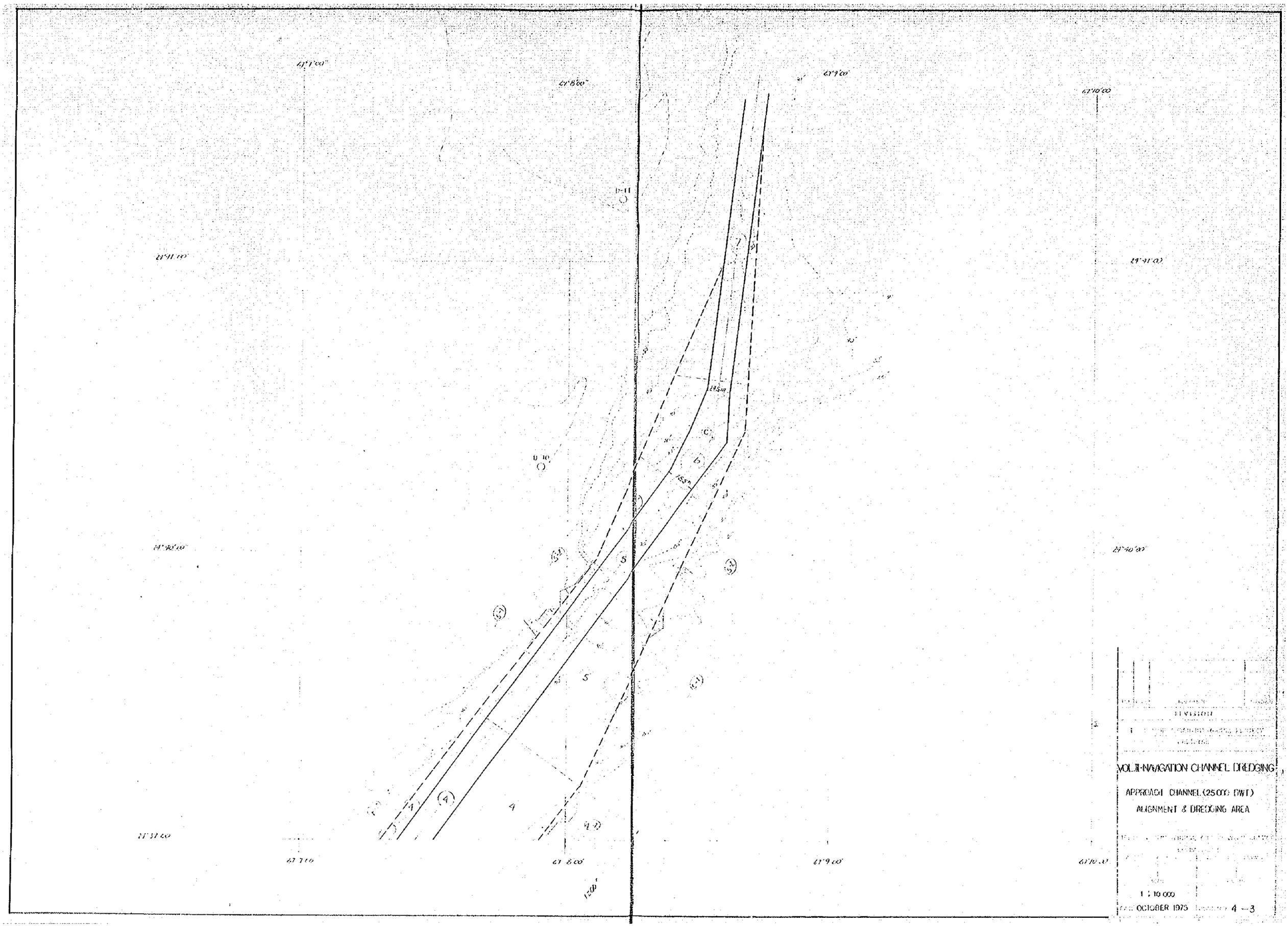
APPROACH CHANNEL (25 000 DWT)

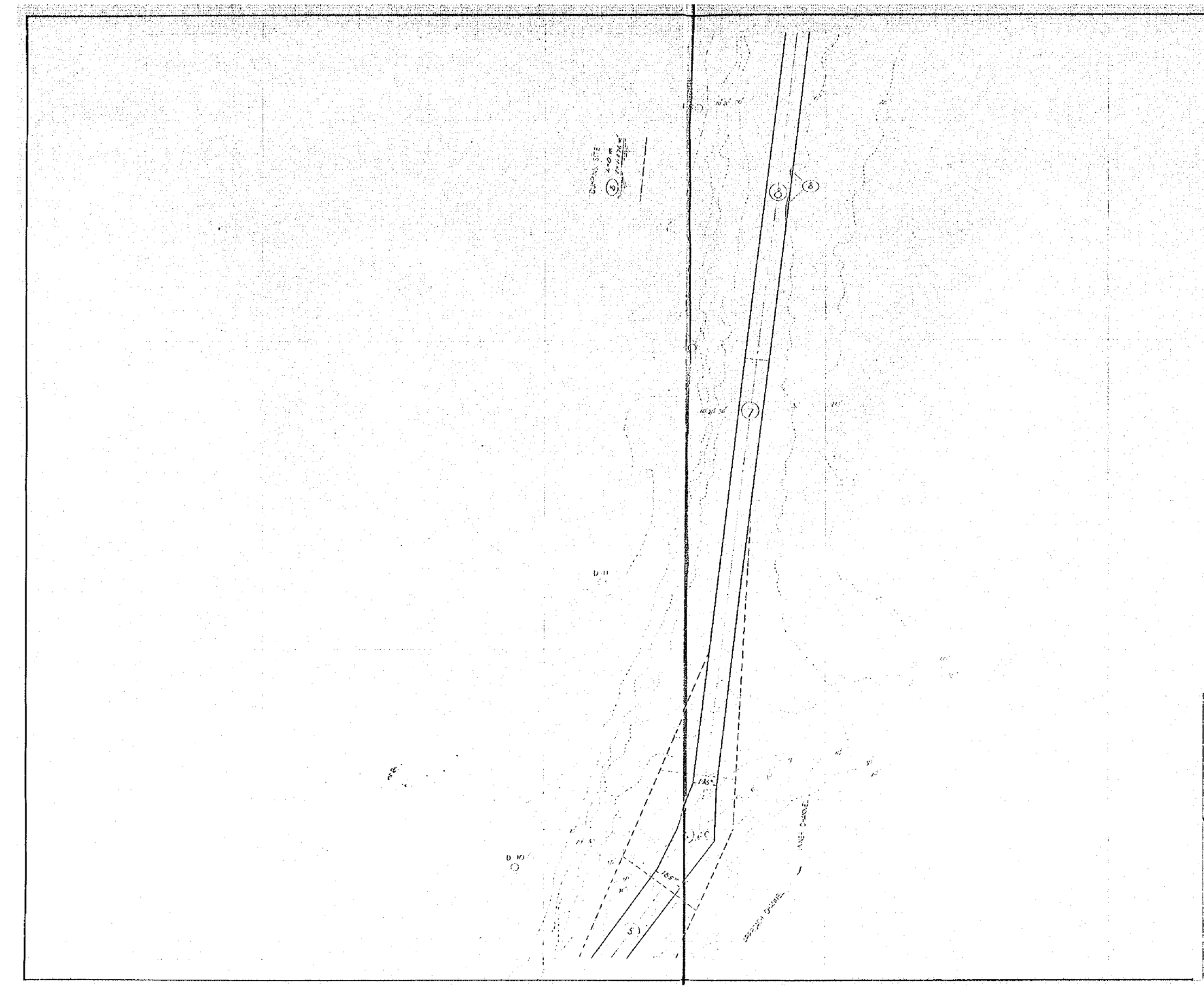
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975

4-2


67°7'00"
67°8'00"
67°9'00"
67°10'00"
24°38'00"
24°39'00"
24°40'00"
24°41'00"
1200'
1 : 10 000
OCTOBER 1975
4 – 3

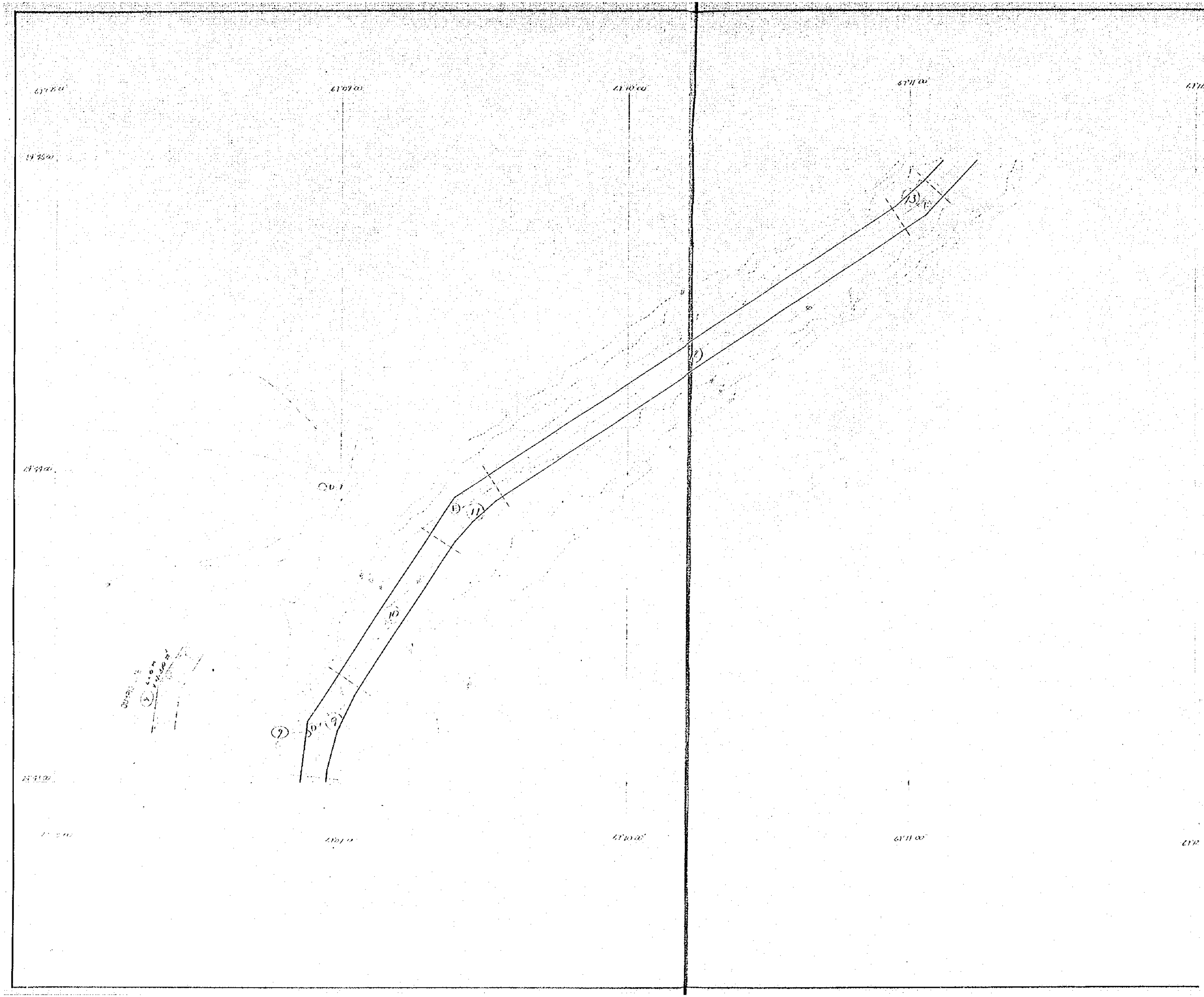


VOL.II-NAVIGATION CHANNEL DREDGING

INNER CHANNEL (250000DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975 DWG. NO. 4—4



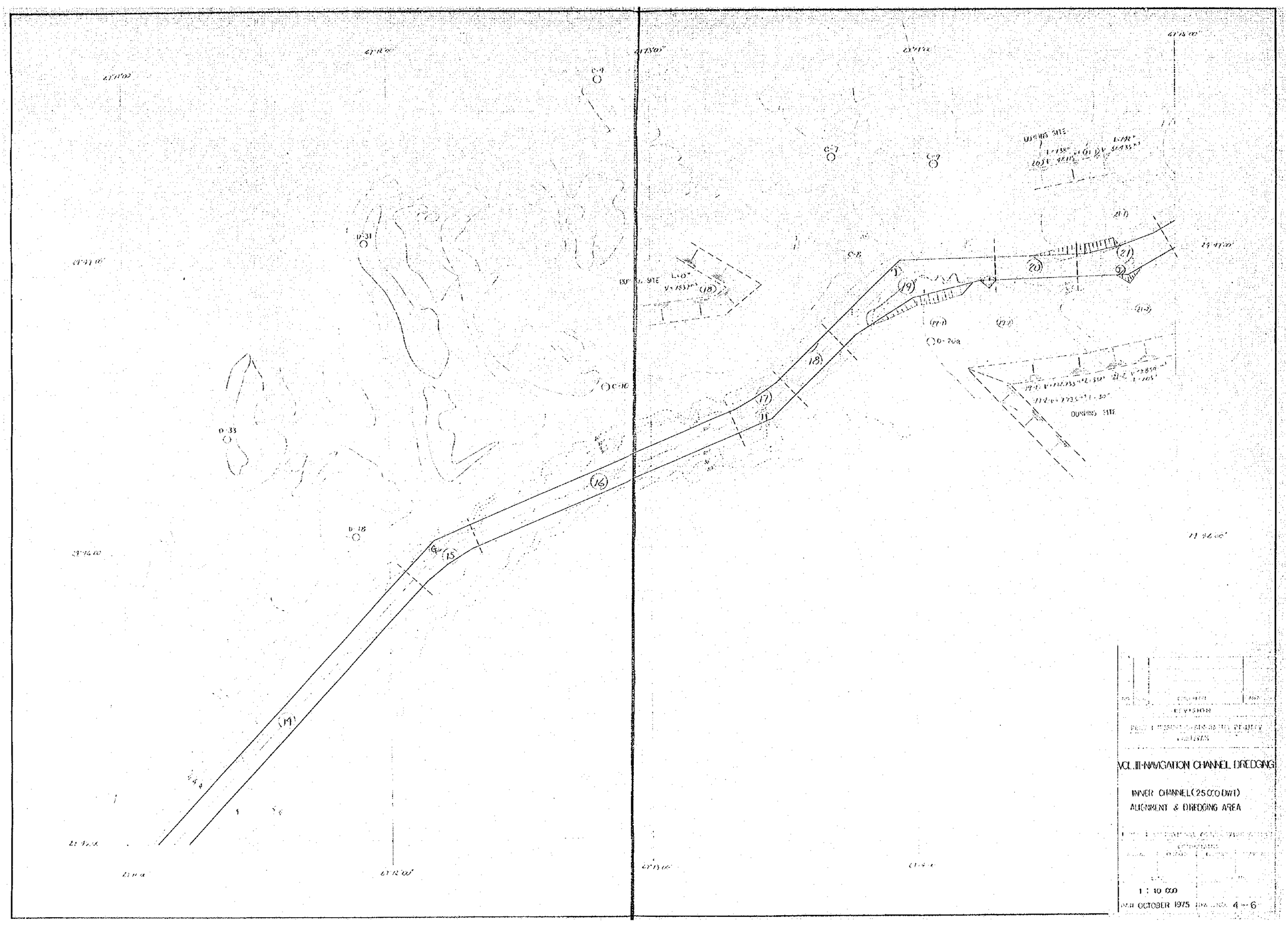
VOL.II-NAVIGATION CHANNEL DREDGING

INNER CHANNEL (25000 DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975

4 — 5



VOL.III-NAVIGATION CHANNEL DREDGING

INNER CHANNEL(25000DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975 DWG. NO. 4-6

DUMPING SITE

DUMPING SITE

DUMPING SITE — UNFAVOURABLE SEASON

DUMPING SITE — FAVOURABLE SEASON

VOL. II-NAVIGATION CHANNEL DREDGING

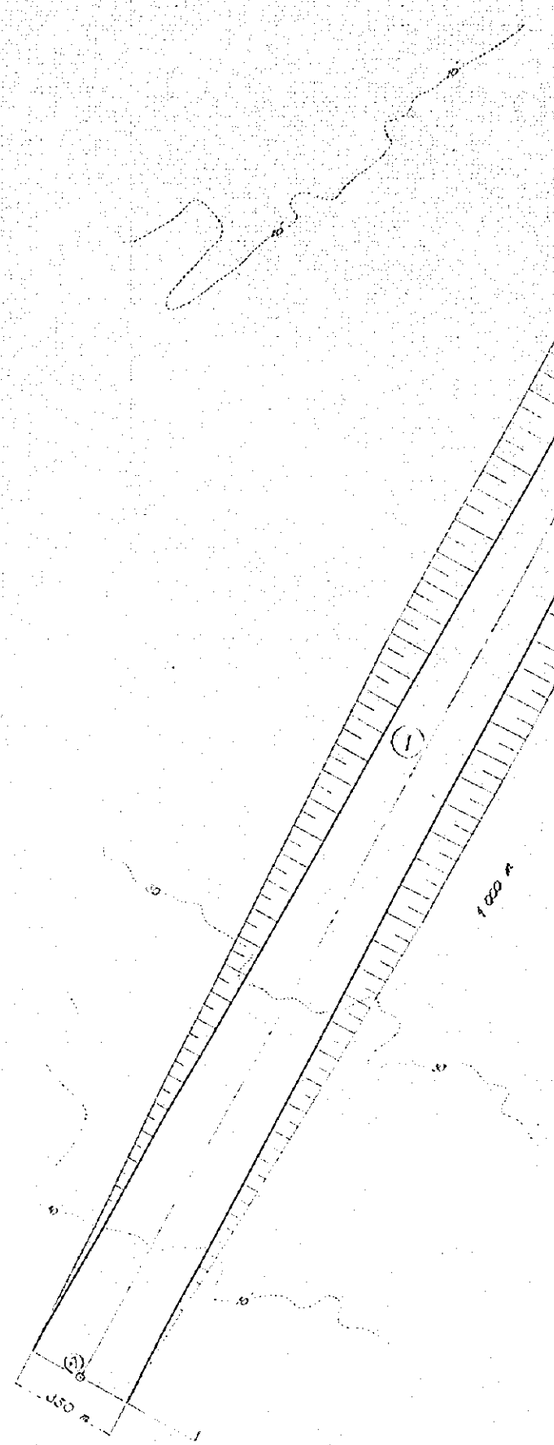
INNER CHANNEL (25 000 DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975

4 - 7

67°3'00"
67°4'00"
67°5'00"
67°6'00"
24°36'00"
24°35'00"
24°34'00"
24°33'00"



VOLTA-NAVIGATION CHANNEL DREDGING

APPROACH CHANNEL (50 000 DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000
OCTOBER 1975

4-8

67°3'00"
67°4'00"
67°7'00"
67°8'00"
21°39'00"
21°38'00"
21°37'00"
21°36'00"
67°5'00"
67°6'00"

(1)
(2)
(3)
(3')
(3'')

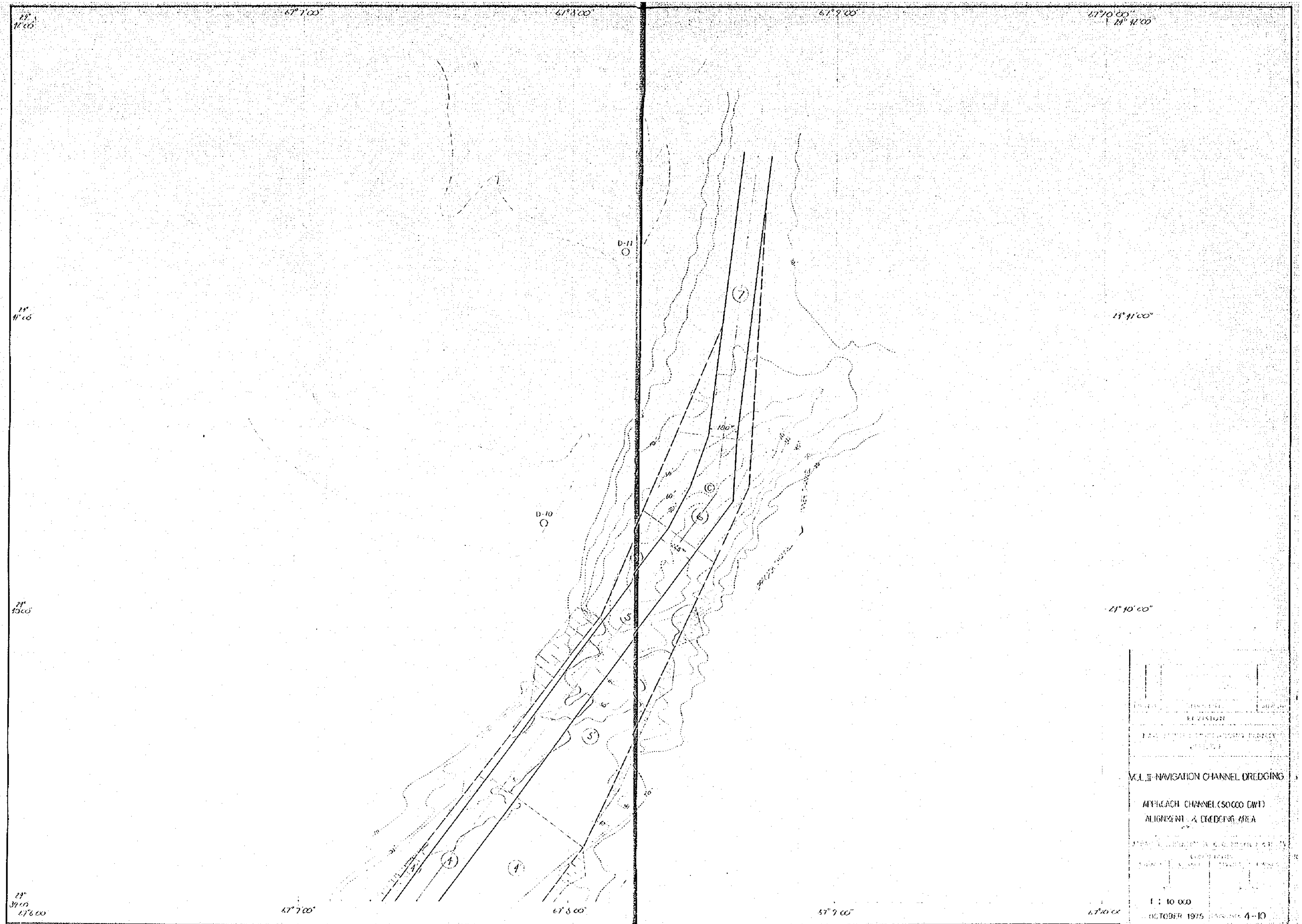
VOLTA-NAVIGATION CHANNEL DREDGING

APPROACH CHANNEL (50 000 DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975

4-9


67°7'00"
67°8'00"
67°9'00"
67°10'00"
21°41'00"
21°40'00"
D-11
D-10
7
C
6
5
5'
4
4'
180°
REVISION
VOL.III NAVIGATION CHANNEL DREDGING
APPROACH CHANNEL (50000 DWT)
ALIGNMENT & DREDGING AREA
1 : 10 000
OCTOBER 1975
4-10

67°7'00"
67°8'00"
67°9'00"
67°10'00"
67°11'00"
21°12'00"
21°11'00"
21°10'00"
21°12'00"
21°11'00"
21°10'00"
67°7'00"
67°8'00"
67°9'00"
67°10'00"

BORING NO. 2
+3.0 M
-12.2 M

BORING NO. 3
+3.0 M
-12.2 M

VOLUI-NAVIGATION CHANNEL DREDGING

INNER CHANNEL (50 000 DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000
OCTOBER 1975

4-11

11°15'00"

67°9'00"

67°10'00"

67°11'00"

67°12'00"

67°13'00"

21°11'00"

21°11'00"

21°13'00"

67°8'00"

67°9'00"

67°10'00"

67°11'00"

LIGHTING SITE

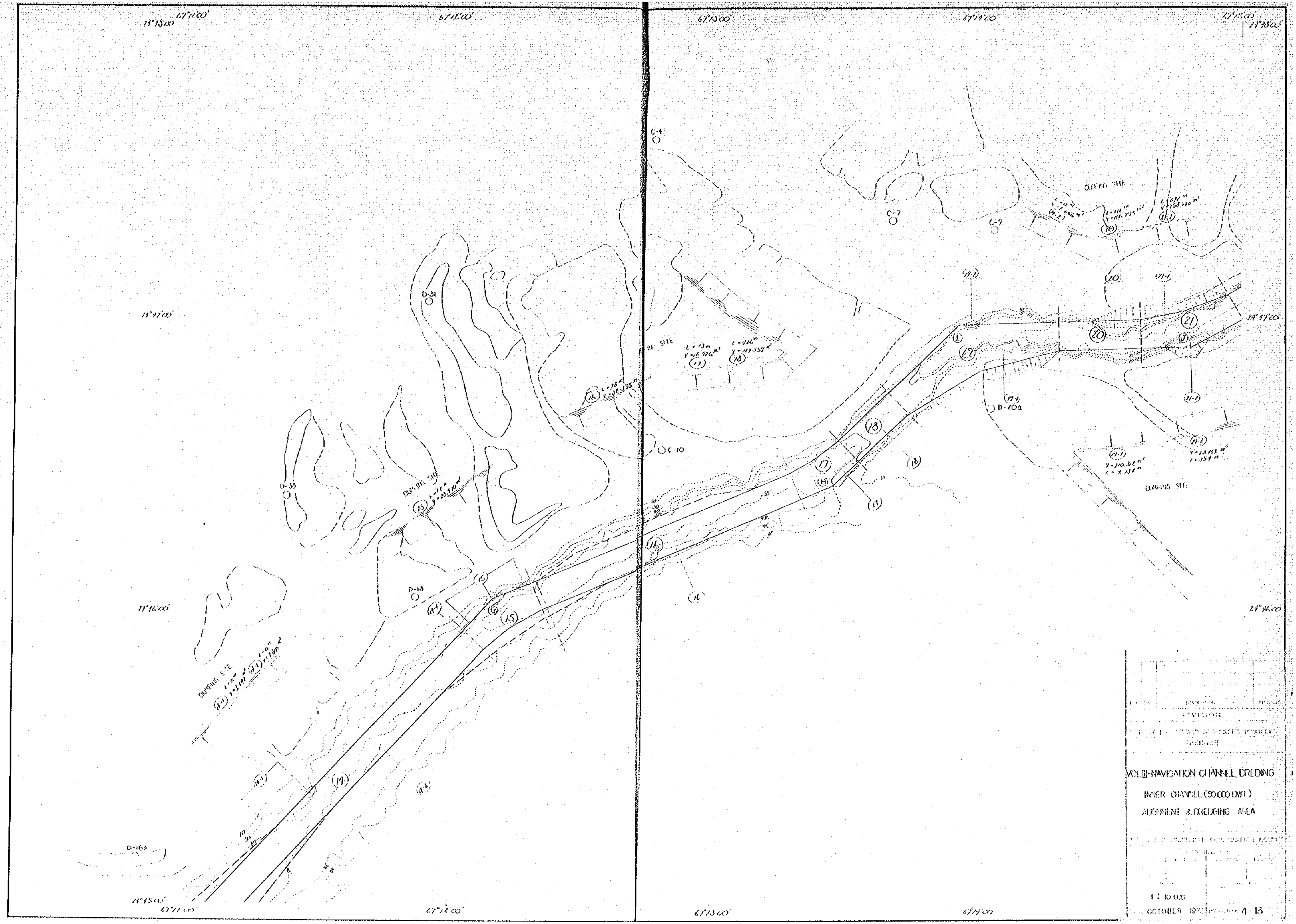
REVISION

VOL III-NAVIGATION CHANNEL DREDGING

INNER CHANNEL(50 000 DWT)
ALIGNMENT & DREDGING AREA

1 : 10 000

OCTOBER 1975 4-12


67°11'00"
67°12'00"
67°13'00"
67°14'00"
67°15'00"
11°18'00"
11°17'00"
11°16'00"
11°15'00"
C-4
C-7
C-9
C-10
D-31
D-35
D-18
D-16a
D-20a
DUMPING SITE
DUMPING SITE
DUMPING SITE
DUMPING SITE
DUMPING SITE
VOL.III-NAVIGATION CHANNEL DREDING
INNER CHANNEL (50.000 DWT)
ALIGNMENT & DREDGING AREA
REVISION
1 : 10.000
OCTOBER 1978
4-13

67°15'00"
67°16'00"
67°17'00"
67°18'00"
67°19'00"
19°18'00"
19°17'00"
19°16'00"
19°15'00"
19°14'00"
19°13'00"
19°12'00"
19°11'00"
19°10'00"
19°09'00"
19°08'00"
19°07'00"
19°06'00"
67°15'00"
67°16'00"
67°17'00"
67°18'00"
67°19'00"

C-20 C-21 C-22 C-23 C-24 C-25 C-26 C-27 C-28 C-29 C-30 C-31 C-32 C-33 C-34 C-35 C-36

DUMPING SITE

DUMPING SITE — FAVORABLE SITE

DUMPING SITE — UNFAVORABLE SITE

BERTH

350 m.

500 m. RADIUS

VOL II-NAVIGATION CHANNEL DREDGING

INNER CHANNEL (50 000DWT)

ALIGNMENT & DREDGING AREA

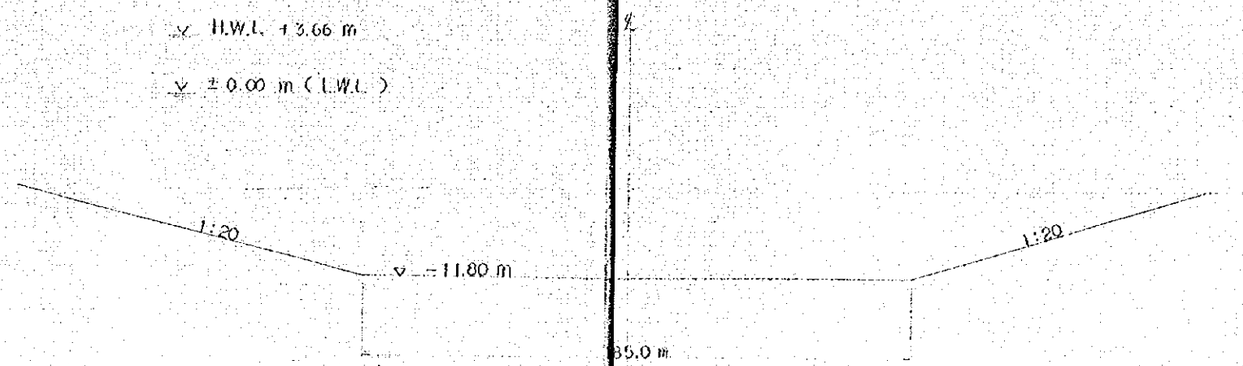
1 : 10 000

DATE OCTOBER 1975 DRAWING NO. 4 — 14

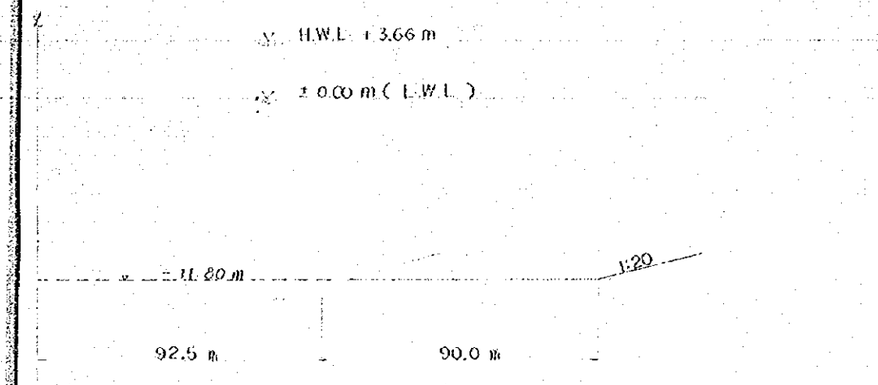
TYPICAL CROSS SECTION APPROACH CHANNEL (25000 DWT)

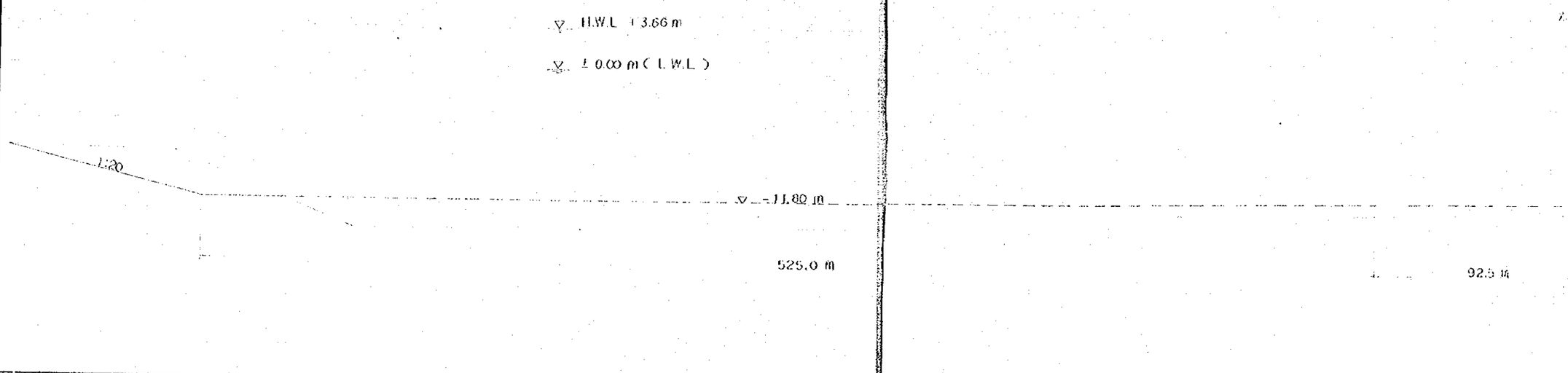
Scale H = 1 : 1000 V = 1 : 200

Outer Approach Channel



Inner Approach Channel





VOL. II - NAVIGATION CHANNEL DREDGING

TYPICAL CROSS SECTION

APPROACH CHANNEL DREDGING (25000DWT)

H = 1 : 1 000
V = 1 : 200

OCTOBER 1975

5-1

TYPICAL CROSS SECTION OF INNER CHANNEL (25000 DWT)

Scale H = 1 : 1,000 V = 1 : 200

LOWER PHITTI CREEK CHANNEL

℄

▽ H.W.L + 3.66 m

▽ ± 0.00 m (L.W.L)

1:6 ▽ = 9.50 m

145.0 m

UPPER PHITTI CREEK CHANNEL

▽ H.W.L + 3.66 m

▽ ± 0.00 m (L.W.L)

▽ = 9.50 m 1:6

145.0 m

KADIRO CREEK CHANNEL

▽ H.W.L + 3.66 m

▽ ± 0.00 m (L.W.L)

1:6 ▽ = 9.50 m 1:6

145.0 m

GHARO CREEK CHANNEL

▽ H.W.L + 3.66 m ℄

▽ ± 0.00 m (L.W.L)

1:6 ▽ = 11.00 m

145.0 m Berth

BERTH

▽ H.W.L + 3.66 m

▽ + 0.00 m (L.W.L)

1:6

▽ = 11.00 m

GHARO CREEK CHANNEL 80.0 m

▽ H.W.L + 3.66 m

▽ + 0.00 m (L.W.L)

1:6 ▽ = 11.00 m

225.0 m

GHARO CREEK CHANNEL

NO.	DATE	DESCRIPTION	APPROVED
		REVISION	

PORT MUHAMMAD BIN QASIM PROJECT
PAKISTAN

V/C - NAVIGATION CHANNEL DREDGING
TYPICAL CROSS SECTION INNER CHANNEL
SHEET NO. 1 OF 1 SHEET

JAPAN - INTERNATIONAL COOPERATION AGENCY

CONSULTANTS

ARCHITECTS	ENGINEERS	GEOLOGISTS	PLANNERS

SCALE
H = 1 : 1 000
V = 1 : 200

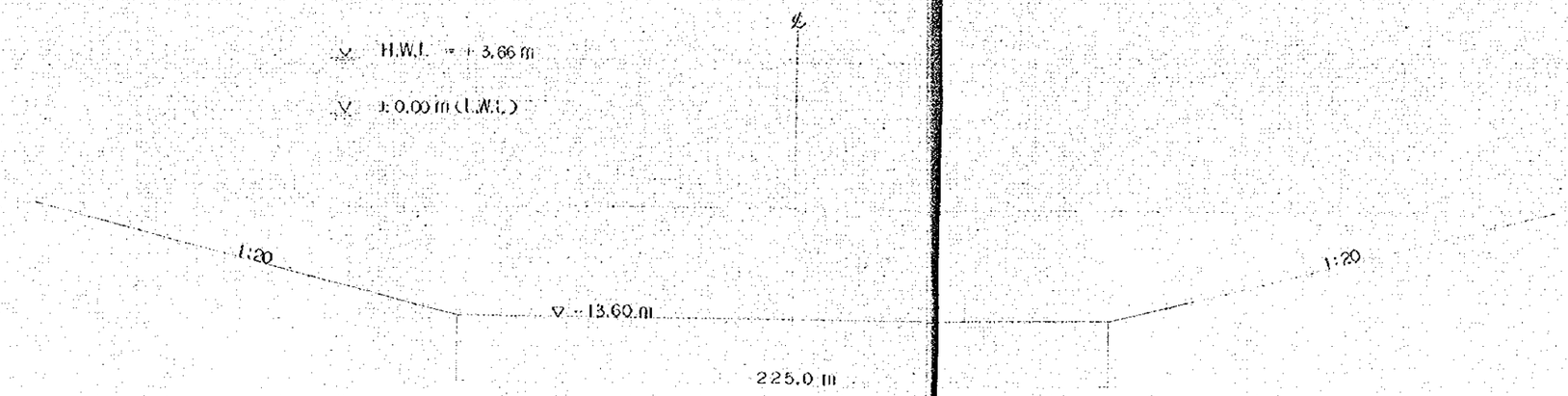
DRAWING NO.

DATE OCTOBER 1978 DRAWING NO. 5-2

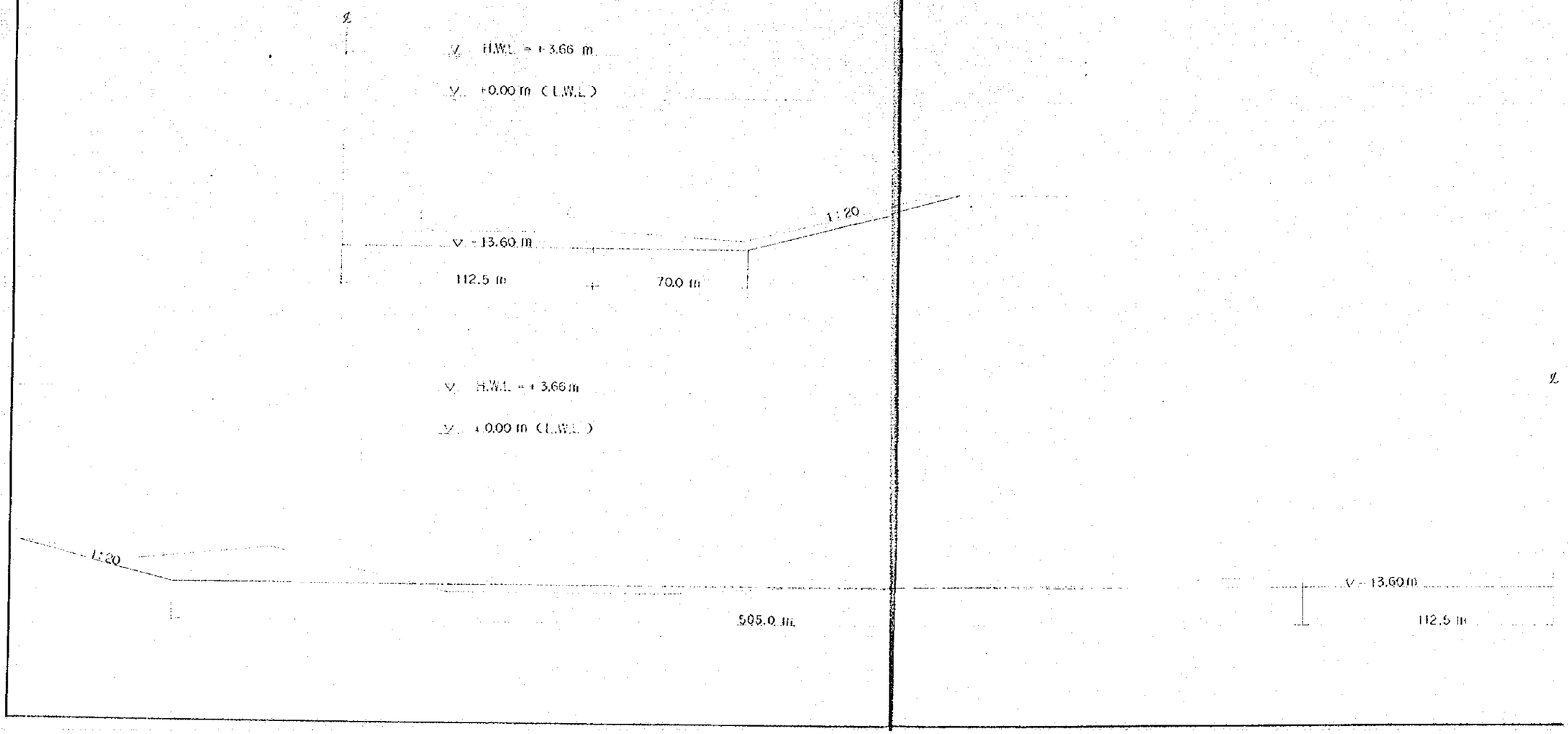
TYPICAL CROSS SECTION OF APPROACH CHANNEL (50,000 DWT)

Scale H = 1 : 1,000 V = 1 : 200

Outer Approach Channel



Inner Approach Channel



REVISION

VCL-2 NAVIGATION CHANNEL DREDGING

TYPICAL CROSS SECTION
APPROACH CHANNEL DREDGING
(50,000 DWT)

CONSULTANTS

H = 1 : 1000
V = 1 : 200

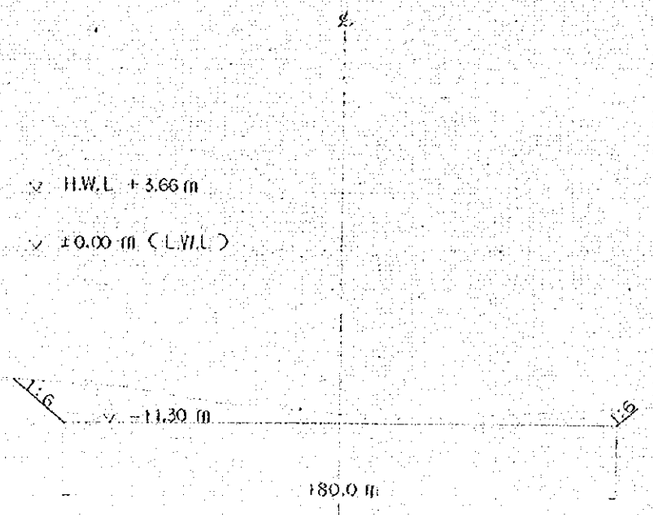
DATE OCTOBER 1975

DWG. NO. 5 — 3

TYPICAL CROSS SECTION OF INNER CHANNEL (5000 DWT)

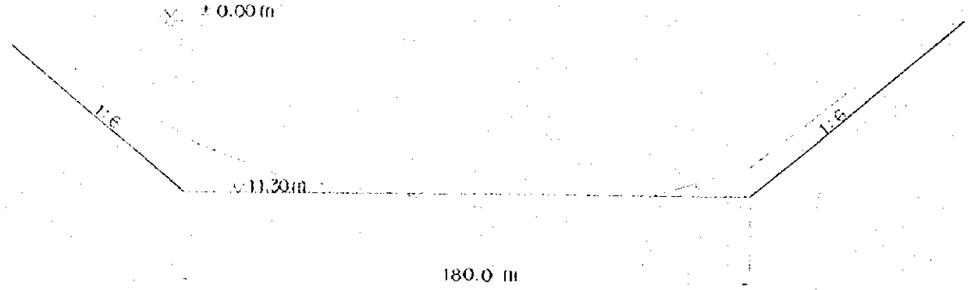
Scale H = 1 : 1000 V = 1 : 200

LOWER PHITTI CREEK CHANNEL

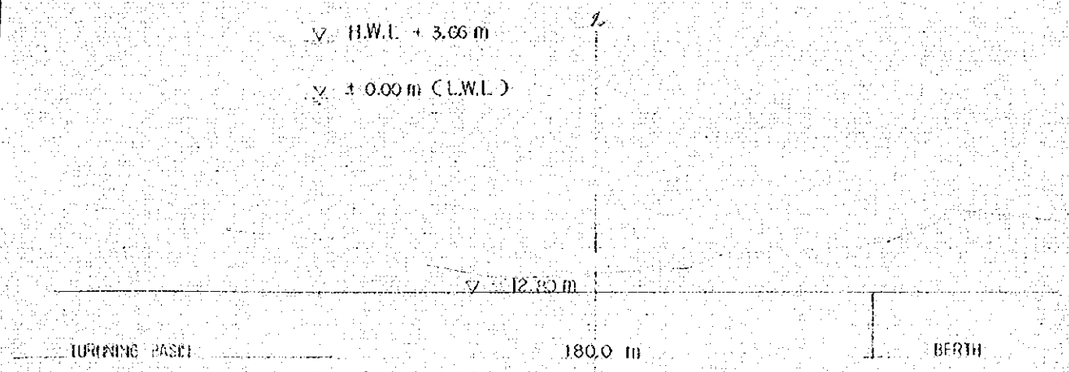


UPPER PHITTI CREEK CHANNEL

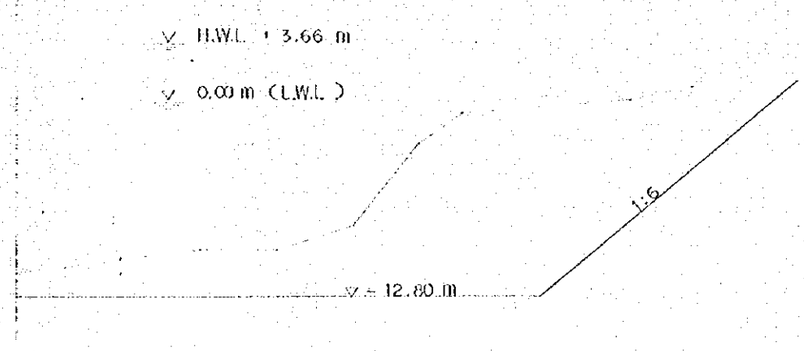
KADIRO CREEK CHANNEL



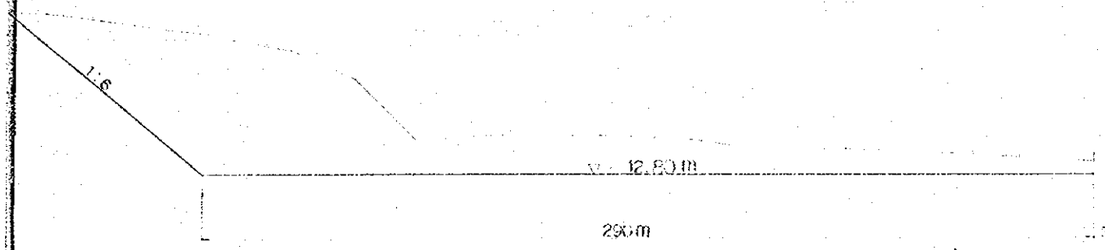
GHARO CREEK CHANNEL



BERTH



TURNING BASIN



REVISION

PORT MUHAMMAD BIN QASIM PROJECT
PAKISTAN

V.L.III IRRIGATION CHANNEL DESIGN
TYPICAL CROSS SECTION (INNER CHANNEL)
(5000 DWT CLASS)

JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS

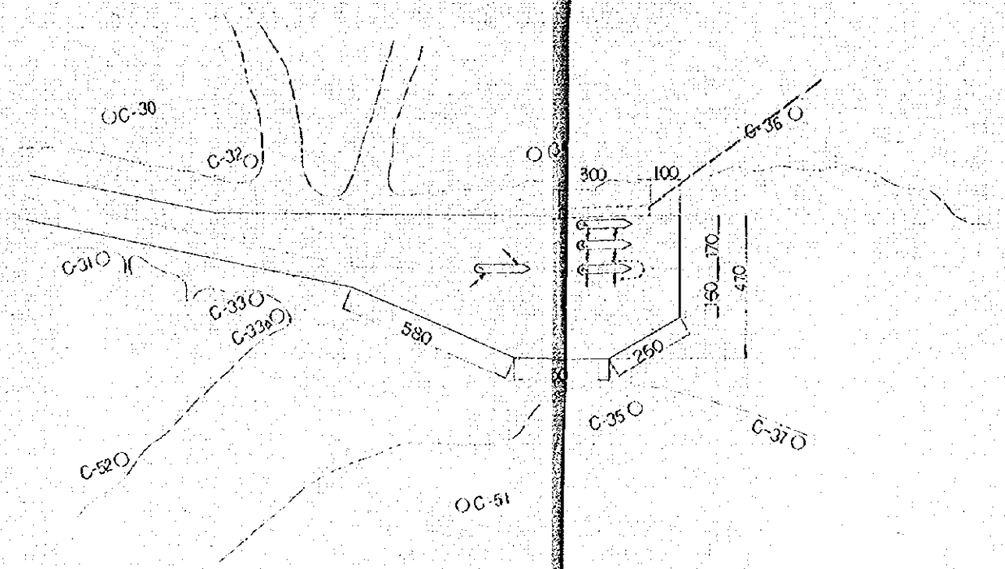
ASSOCIATED	ENGINEERS	DESIGNED	DRAWN

SCALE
H = 1 : 1 000
V = 1 : 200

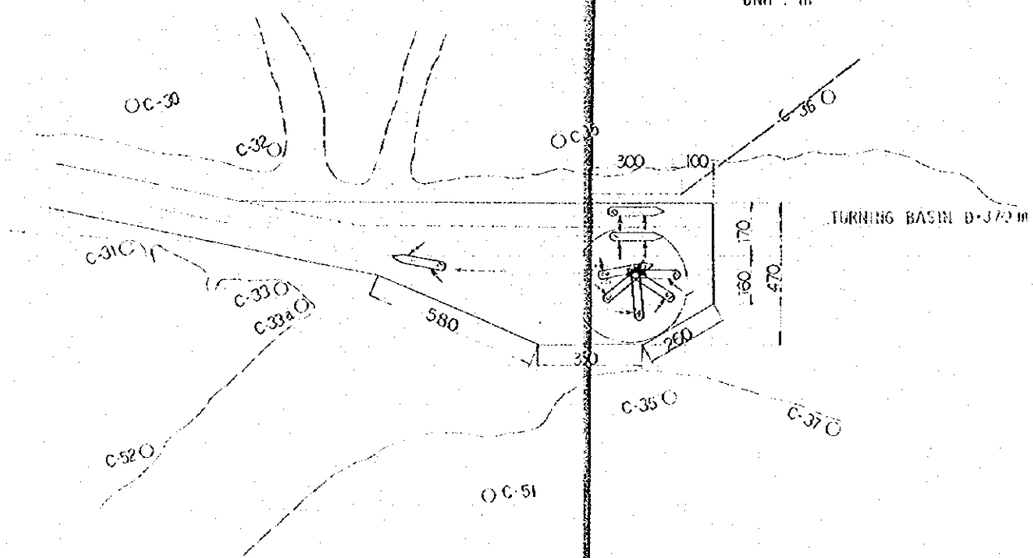
DATE OCTOBER 1975

DWG. NO. 5-4

BERTHING MANEUVERS OF 25,000 D/W VESSEL SCALE 1 : 10,000
UNIT : m



DEBERTHING MANEUVERS OF 25,000 D/W VESSEL SCALE 1 : 10,000
UNIT : m



GENERAL NOTES

NO.	DATE	DESCRIPTION	APPROVED

REVISION

PORT MUHAMMAD BIN QASIM PROJECT
PAKISTAN

KOLACHI NAVIGATION CHANNEL DREDGING

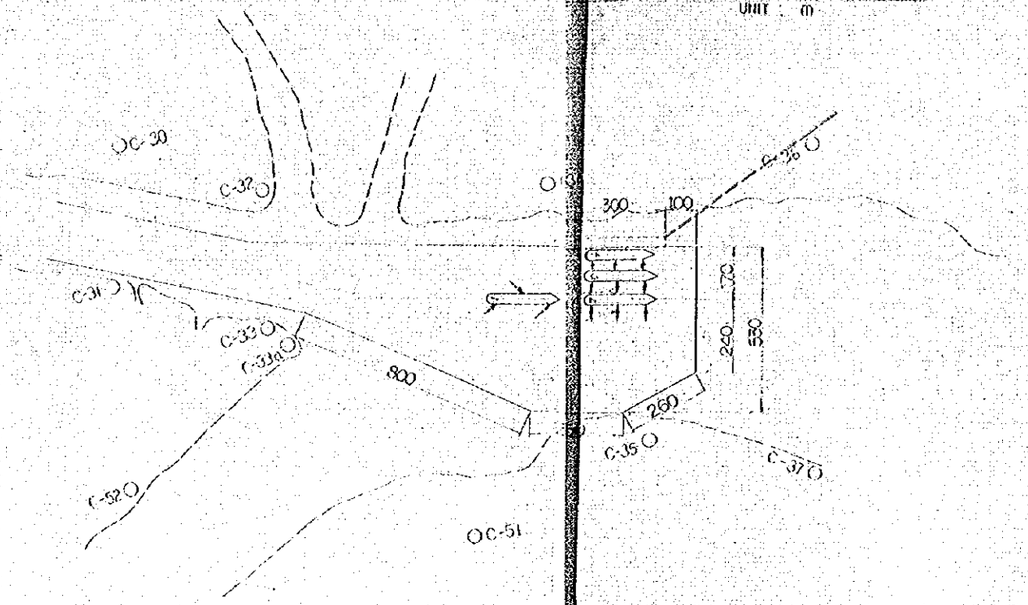
BERTHING AND DEBERTHING MANEUVERS OF 25000 D/W VESSEL

JAPAN INTERNATIONAL COOPERATION AGENCY

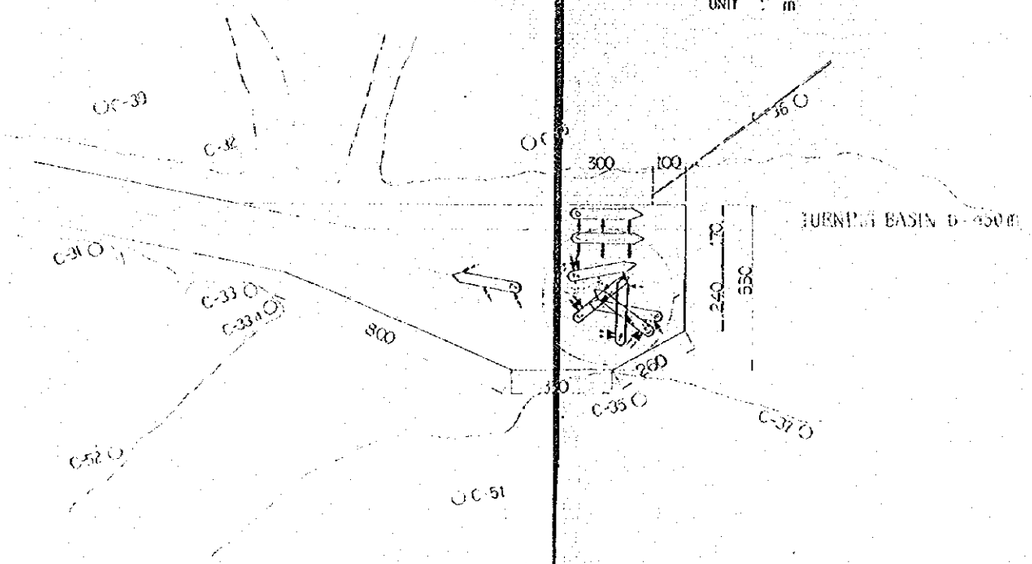
CONSULTANTS			
APPROVED	CHECKED	DESIGNED	DRAWING

SCALE	REV. No.
1 : 10,000	
DATE OCTOBER 1975	DWG. NO. 6--1

BERTHING MANEUVERS OF 50,000 D/w VESSEL SCALE 1 : 10,000
UNIT : m



DEBERTHING MANEUVERS OF 50,000 D/w VESSEL SCALE 1 : 10,000
UNIT : m



GENERAL NOTES

NO.	DATE	DESCRIPTION	APPROVED

REVISION

PORT MUHAMMAD-BIN-QASIM PROJECT
PAKISTAN

VOL.II-NAVIGATION CHANNEL DREDGING

BERTHING AND DEBERTHING MANEUVERS OF 50,000 D/w VESSEL

JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS

APPROVED	CHECKED	DESIGNED	DRAWING

SCALE 1 : 10,000 REV. NO.

DATE OCTOBER 1975 DWG. NO. 6 - 2