Empress of the North
VIN: 1140867

(1)

15 MAY 2007

DIVE SURVEY

STBD SIDE

FRAME "0"

STEM SPLIT VERTICALLY OVER 5' LENGTH x 1½" WIDTH FROM 3' BELOW WATERLINE, GRAVEL IMBEDDED IN CRACK.

FRAME 15

STBD SIDE OF THRUSTER, OUTBOARD, PLATE HEAVILY SET-IN AND SCORED, 2' LENGTH x 4" DEPTH.
NO CRACKS

FRAME 29-35

KEEL STBD SIDE SET-IN 1" DEPTH AND LONGITUDINALLY SCORED OVER A 5' WIDTH x 20' LENGTH
NO CRACKS

FRAME 37

AT CHINE PLATING SCRAPED, SCORED & SET-IN TO 1" x 3' WIDTH NO CRACKS.

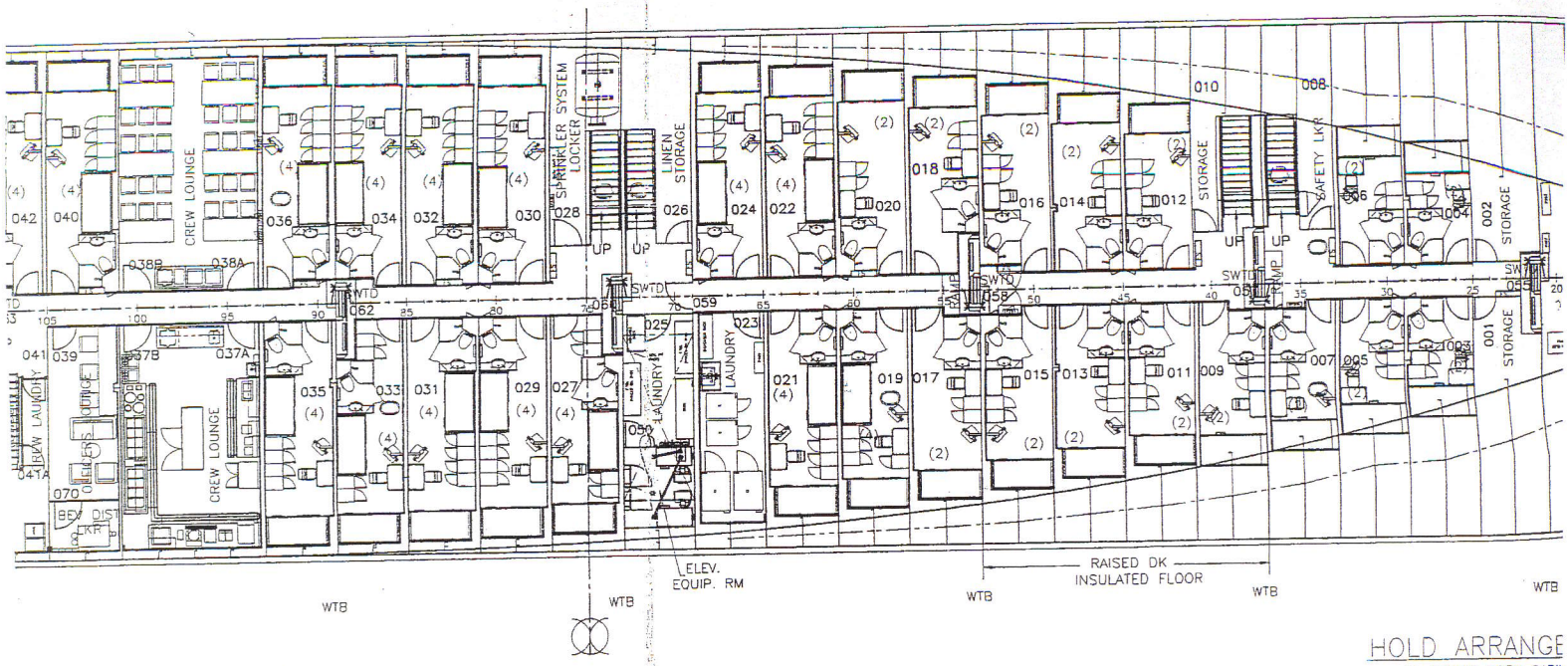
FRAME 19

NO DAMAGE

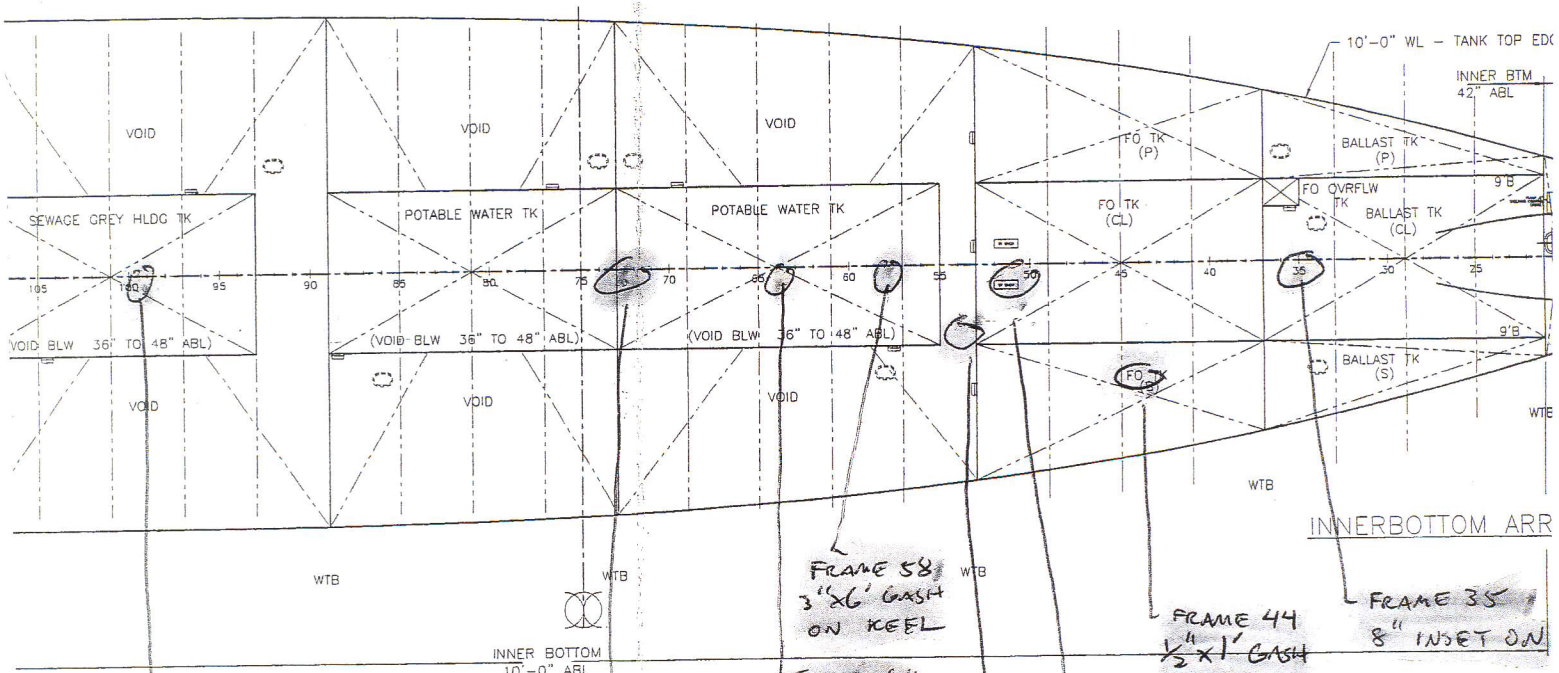
FRAME 21

NO DAMAGE

NORTH VIN: 1140867



HOLD ARRANGE
15 DOUBLE CREW CABIN
15 QUAD CREW CABINS



INNERBOTTOM ARR

FRAME 99 1½" x 1½' GASH, 10' FROM KEEL

FRAME 73, 6" CRACK ON CHINE, 8' x 1½" GASH

FRAME 64 SAME GASH AS 58

FRAME 58 3" x 6' GASH ON KEEL

FRAME 53 6" x 3' GASH ON CHINE

FRAME 51, 20' AREA INSET

FRAME 44 ½" x 1' GASH ON CHINE

FRAME 35 8" INSET ON

NICHOLS BROS. BOAT BUILDERS
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REVIEWED BY:	DATE:
REVIEWED BY: LGH	DATE: 9/30/02
REVIEWED BY: TTK	DATE: 10/01/02

HALF SIZE PRINT

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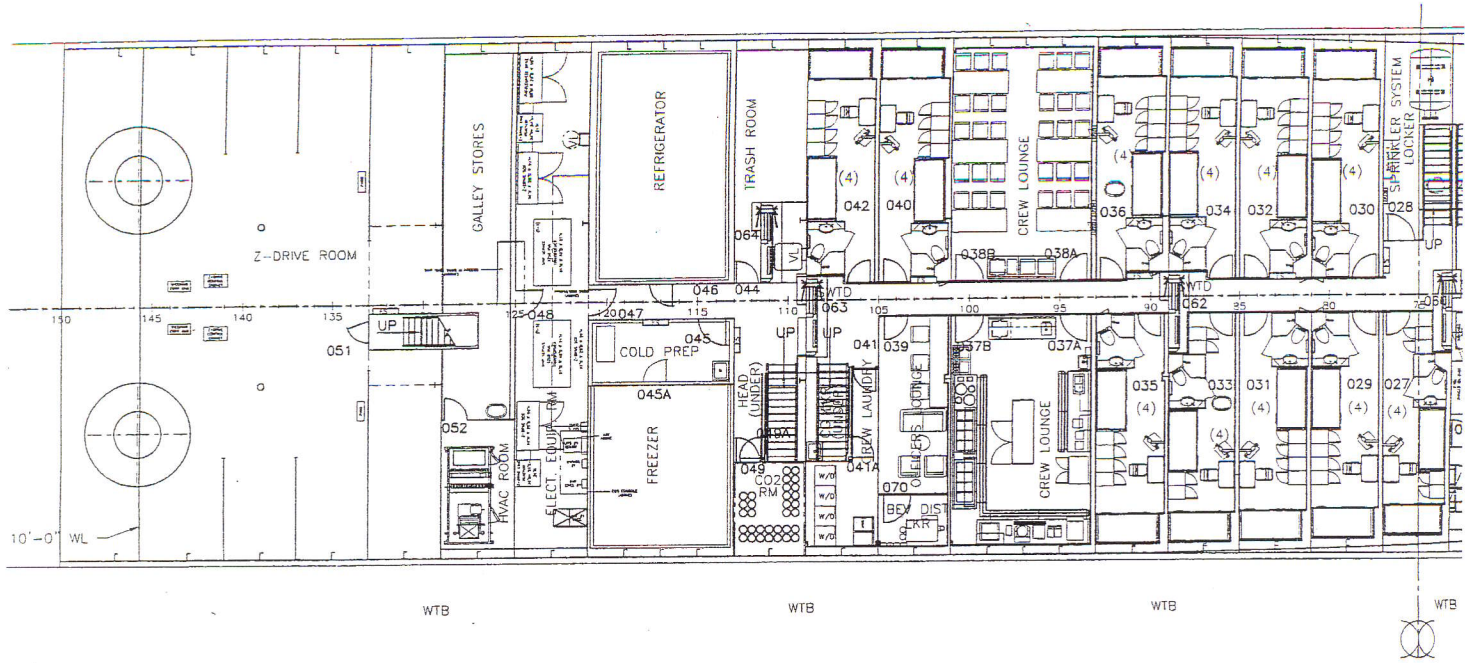
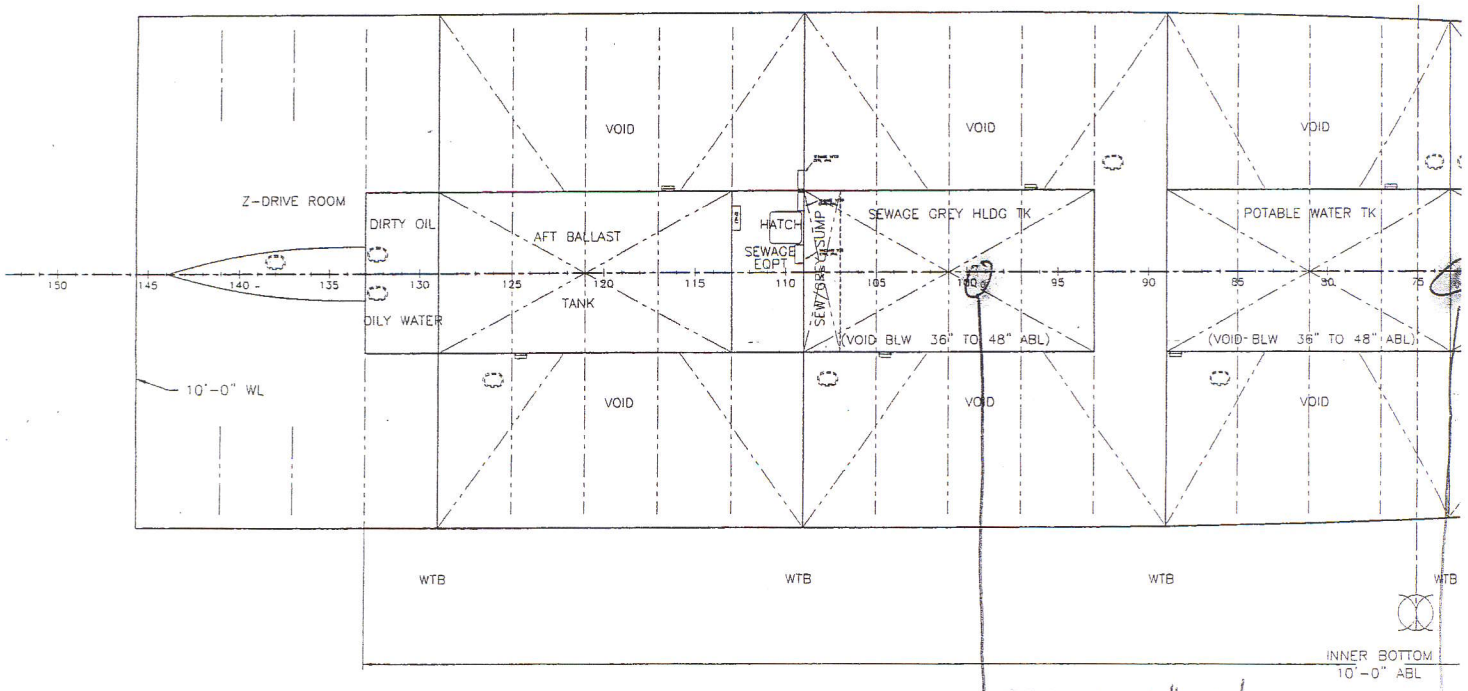




FRAME 99 1½" x 1½'
GASKET, 10' FROM KEEL

FRAME 73 +

AFT OF FRAME 73 OTHER PLATE CRACKED 1½" WIDTH x 8' LENGTH

FRAME 79

FORWARD & AFT OF FRAME 79 & 10' OUTBOARD FROM ℄ PLATE SET-IN ½ 6" DEPTH x 5' WIDTH x 20' LENGTH. NO CRACKS

8 →

FRAME 89

KEEL ℞ LONGITUDINALLY SCRAPED, SCORED & SET-UP TO 8" DEPTH x 5' WIDTH x 10' LENGTH

FRAME 95

KEEL PLATE TO STBD SIDE SET-IN 8" DEPTH x 4' WIDTH x 8' LENGTH

5' OUTBOARD OF KEEL ℞ SET-UP 4" DEPTH

NO CRACKS

FRAME 99

KEEL ℞ SET-UP 5" DEPTH x 5' WIDTH WITH ½" WIDE CRACK x 1½' LENGTH 10' OFF ℄

FRAME 109

KEEL ℞ SET-UP 6" DEPTH x 8' WIDTH x 8' LENGTH WITH POSSIBLE CRACKS IN WAY OF WELDS

FRAME 35-40

KEEL PLATE SET-UP 6-8" DEPTH X 4' WIDTH
NO CRACKS

FRAME 40-53

PLATE AT CHINE SPLIT & OPENED TO 1/2" MAX INTERMITTENTLY
OVER A 30' LENGTH

FRAME 53

KEEL PLATE SCRAPED & SCORED, NO CRACKS

FRAME 58

KEEL PLATE ON ℄ SPLIT OPEN LONGITUDINALLY OVER
3" WIDTH X 6' LENGTH.

FRAME 52-56

INBOARD OF CHINE PLATE SET-UP 6" DEPTH X 3' WIDTH
X 20' LENGTH NO CRACK

FRAME 64

KEEL PLATE ON ℄ CRACKED 1/2" WIDTH X 18"
LENGTH.

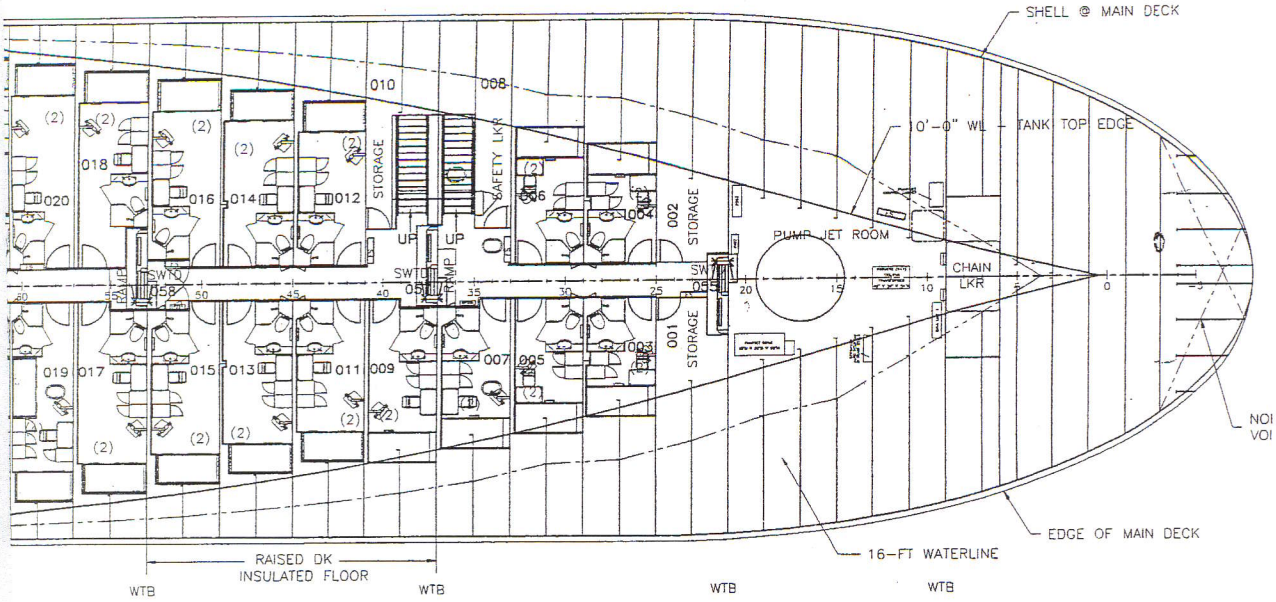
FRAME 73

CHINE PLATE SET-IN 6" WIDTH & 6" CRACK

FRAME 86

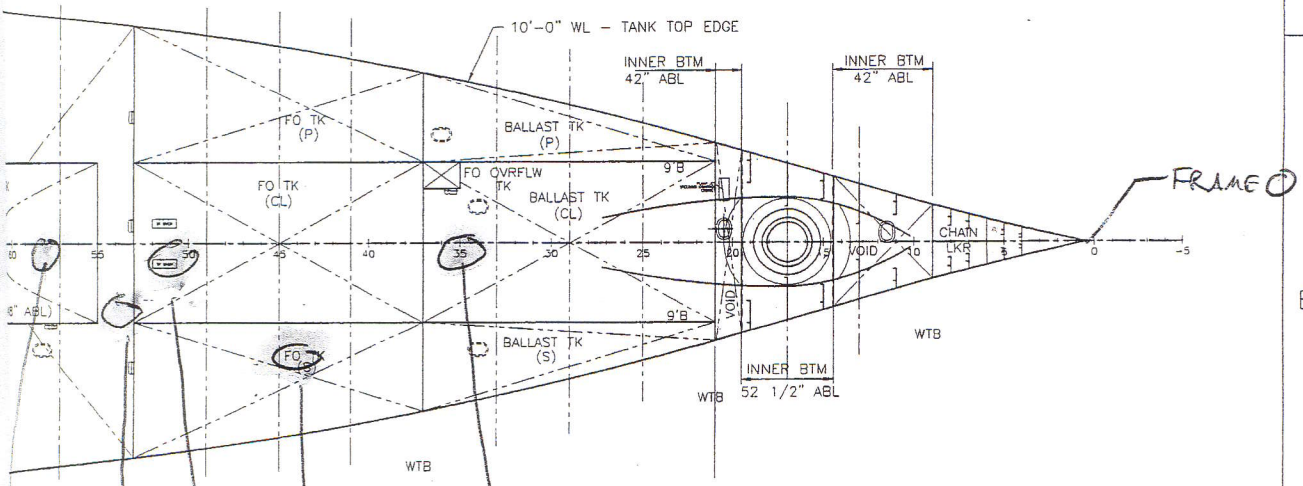
KEEL ℞ SET-IN 6" X 5' WIDTH NO CRACKS

15 MAY 2007



HOLD ARRANGEMENT

15 DOUBLE CREW CABINS
15 QUAD CREW CABINS



INNERBOTTOM ARRANGEMENT

FRAME 58
6' GASH
KEEL

FRAME 64
GASH

FRAME 44
½"x1' GASH
ON CHINE

FRAME 35
8" INSET ON KEEL

FRAME 51, 20' AREA
INSET

FRAME 53,
6"x3' GASH
ON CHINE

NICHOLS Bros BOAT BUILDERS, 5400 So. Camano Rd. Freeland, WA 98249, Whidbey Island, Office (360)331-5500 FAX(360)331-7435		GUIDO PERLA & ASSOCIATES, Inc. 9010 EAST MARGINAL WAY SO., SUITE 300 SEATTLE, WA 98108, USA Tel: (206) 768-1515, Fax: (206) 768-9700 Email: gpa@gpa.com	TITLE: GENERAL ARRANGEMENTS INNER BOTTOM & HOLD	
REVIEWED BY:	DATE:			
REVIEWED BY: LGH	DATE: 9/30/02	HALF SIZE PRINT	D	COMP. FILE R80101C	DWG. No. 09300-801-01	REV. C
REVIEWED BY: MK	DATE: 10/01/02		SCALE 3/32" = 1' - 0"	SHEET 2 OF 5

Damage Survey Initial Assessment via Divers

(1) Forward Bow bottom Keel, Port & STBD approximately 1½" X 8' peeled back.

(2) Inset in a way of Keel forward FR. #21 STBD.

(3) Fuel Tank in a way of STBD bottom Flat Keel gash measuring 4' X 1½" length.

(4) Void No. 1, in a way of STBD bottom Flat Keel gash measuring approx. 4' X 3" in length.

(5) Void No. 2, in a way of STBD bottom flat keel 1½' L X 1" W gash mid section area).

(6) STBD Z-drive double screw, forward 3 blades gone and aft 3 blades all damaged.

(7) Void NO. 3, flooded to top.

(8) Void NO. 4 WTB between Void 4 & Void 3, Inset causing water leakage to No. 4 Void Accessible on bottom plating (2) areas. This is also called pump room or sewage Room.

(9) Port Void NO. 4 portside (same Room) wire/cable way leaking water. Wireway located overhead high on bulkhead.

(10) WTD #3, valve remote handles, leaking.

(11) Storeroom aft by galley (crew), Bulkhead partition remove & drilled holes on deck approx. 5-¼ holes leaking from Void 3?

(12) Man hole cover in Void 1 leaking STBD side - Sub pump on site.

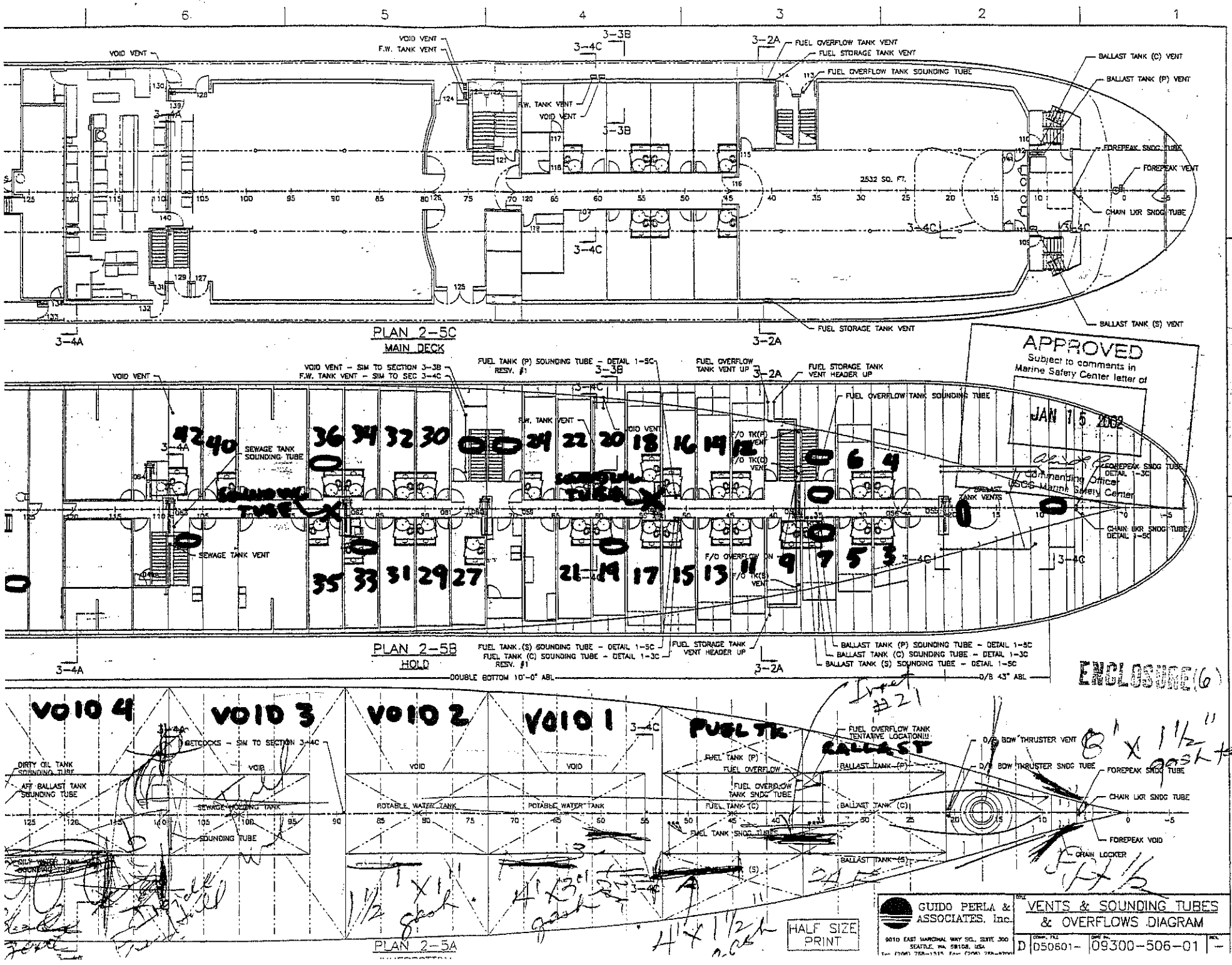
(13) Issued B35 to MASTER Restricting vessel on dock until temporary repairs completed to the satisfaction of OCMI.

(14) Intend to complete video of underwater survey by tomorrow, 15 May 2007 morning.

(15) Temporary Repairs include patching bottom gash/cracks/fractures with wooden wedges. Covered by Flush Zone.

(16) Pump all flooded voids, gas free, make concrete boxes, & shore as appropriate.

(17) ABS class inform & boom vessel.



APPROVED
Subject to comments in Marine Safety Center letter of
JAN 15 2002
Commanding Officer
USCG Marine Safety Center

ENCLOSURE (6)