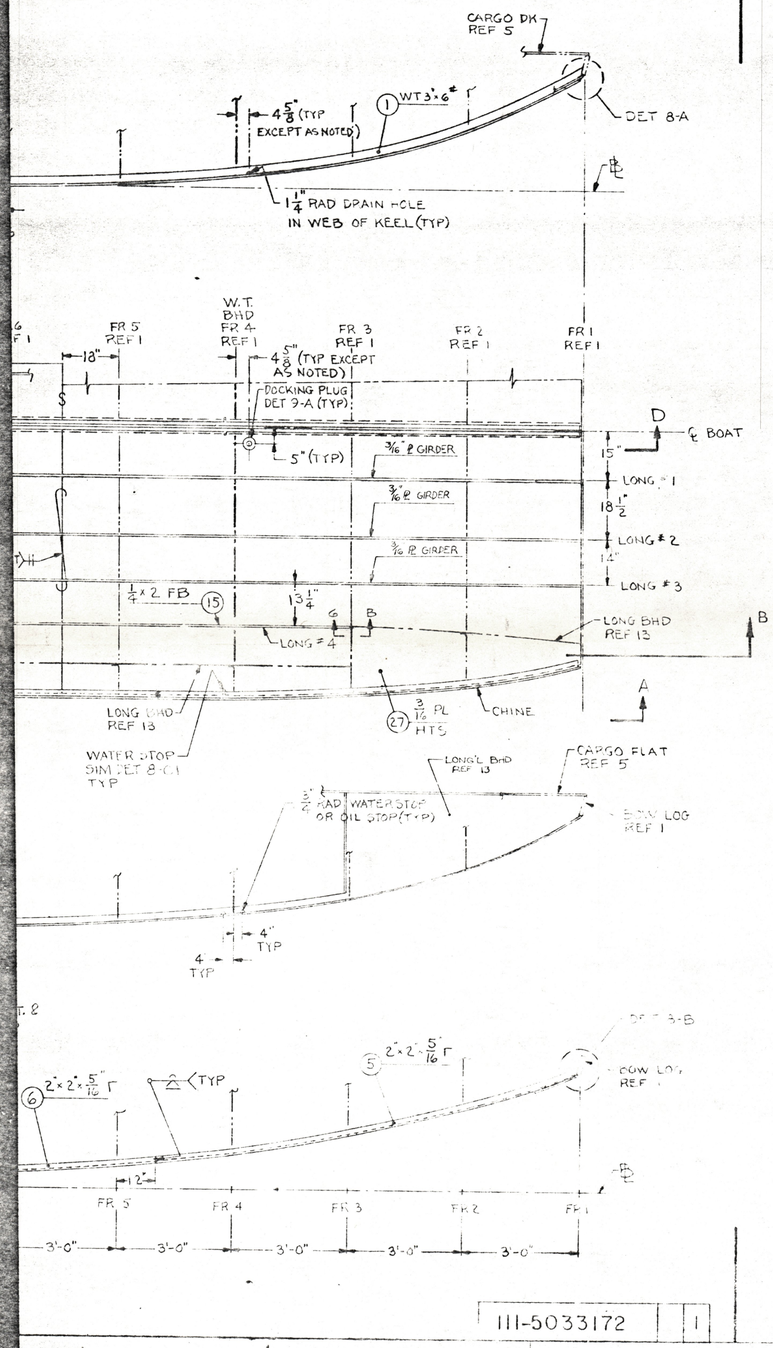


MOLDED LINES

1. BOTTOM PLATING - INBD SIDE OF PLATING
2. KEEL - CENTER OF WEB OF TEE SECTION OR CENTER OF FLAT BAR
3. CHINE - HEEL OF ANGLE
4. BOTTOM PLATING LONG - INBD FACE OF FLAT BAR

GENERAL NOTES

1. UNLESS OTHERWISE NOTED ALL WELDS ARE TYPICAL FOR SIMILAR CONNECTIONS
2. QUANTITIES GIVEN ARE FOR ONE BOAT
3. HOLES FOR HOLD DOWN BOLTS OR FASTENERS ARE TO BE TEMPLATED FROM COMPONENTS
4. PAINTING TO BE IN ACCORDANCE WITH REF 6
5. FLANGE OF KEEL PC. 1, 2, 3, AND CHINE ANGLE PC. 5 & 6, 7, & 8 ARE TO BE KNUCKLED TO SUIT CONTOUR OF BOTTOM PLATING TO AGREE WITH LINES AND OFFSETS
6. THREADS OF PIPE PLUGS OR THREAD FASTENERS OF REMOVABLE ITEMS ARE TO BE COATED WITH A MIXTURE OF ABOUT 50% TALLOW AND 50% WATERPROOF GREASE WITH PULVERIZED GRAPHITE TO FACILITATE REMOVAL.

NO	TITLE	NAVSEA DRG NO
16	TRANSOM FR 13	123 117-5033177
15	PILOT HOUSE & ENCLOSURE	133 151-5033181
14	ENGINE FOUNDATION	136 132-5033186
13	LONG BHD & BULWARK	185 121-5033204
12	MISC FOUNDATIONS	137 162-5033185
11	STRG NOZ & STK ASSY #4R 2 DET	156 521-5033195
10	FW PIPING	150 532-5033209
9	SW PIPING	148 521-5033206
8	PAINTING SCHEDULE	167 651-5033215
7	SKEGS	125 114-5033173
6	SIDE PLTG	123 111-5033171
5	MAIN DK & CARGO FLAT	132 130-5033180
4	FRAMES 15½ - 18½	126 117-5033174
3	FRAMES 13-15	127 117-5033175
2	FRAMES 7-12	128 117-5033176
1	FRAMES 1-6	130 117-5033178

REVISIONS

REV	ZONE	DESCRIPTION	CONTR BY DATE	USN BY & TR
A		PLAN VIEW BOTTOM PLATING: ADDED 3/8" PLATING TO AFT SECTION OF TUNNEL. ADDED SECTION 6-C TO DWG.	8/16/77	S
B	B' 28' 54" 80" 104" 108" 10C'	MODIFIED: PLAN VIEW, EL 5-B, EL 5-D, EL 10-B, DET 7B, SECT 10-A. DELETED: DET 10-B1 & ITEMS 13,14,16, 17,18,19,20 24 & 25.	4/4/78	S

REFERENCES

PARTS LIST

ITEM NO	QTY	DESCRIPTION	MATERIAL	SPEC NO	CODE IDENT	PART NO	REMARKS	GR NO	UNIT WT LBS
41									
40	2	PLATE 5/16" THICK							
39	2	SQUARE BAR 1/2"		ASTM A131					
38	2								
37	2	PIPE (SPLIT) 2" SCH 40		ASTM A53					
36	2								
35	2	PLATE 3/8" THICK	STL	ASTM A131					
34	2	PLATE 3/8" THICK	STL	ASTM A131					
33	11P-15	PLATE 3/16 THICK	STL	ASTM A131					
32									
31	1								
30	6								
29	11P-15								
28	11P-15			ASTM A131 MIL-S-16113 GR HT					
27	11P-15	PLATE 3/16" THICK	STL	ASTM A131					
26	11P-15	PLATE 5/16" THICK	STL	ASTM A131					
25									
24									
23	2								
22	2								
21	2	FLAT BAR 2"x1/4"	STEEL	ASTM A131					
20									
19									
18									
17									
16									
15	2	FLAT BAR 2"x1/4"	STEEL	ASTM A131					
14									
13									
12	1	PLATE 3/8" THICK							
11	2								
10	4	ANGLE 2"x2"x5/16"	STEEL	ASTM A131					
9	2								
8	2								
7	2								
6	2								
5	2	ANGLE 2"x2"x5/16"							
4	1	WT 3"x6"	STEEL	ASTM A131					
3									
2	1								
1	1	WT 3"x6"	STEEL	ASTM A131					

PARTS LIST (CONTD)

ITEM NO	QTY	DESCRIPTION	MAT'L	SPEC NO	CODE IDENT	PART NO	REMARKS	GR NO	UNIT WT LBS
51	2								
50	2								
49	2	PLATE 3/8" THICK	STEEL	ASTM A131					
48	8	ROUND BAR 2 1/2 DIA	CRES	AISI 316L					
47	24	½ DIA LOCKWASHER	P.T.-STL						
46	10	1" I.P.S. CSK HD PIPE PLUG	CRES	COM'L					
45	2	ROUND BAR 2½ DIA	CRES	AISI 316L					
44	24	HEX STOPNUT ½"-13UNC 3B	P.T.-STL				HEX HD TO MAGNET HALF COUP SEE DET 9-A1		
43	24	WELDING STUD ½"-13UNC-2A x 1½ (AW)	STL	COM'L			ESNA #52NE-083 NELSON STUD WELDING GUN #31C & 3-12B		
42	12	ZINC ANODES TYPE ZHC 23	ZINC	MIL-A-18001			SIZE 12"x6"x1¼"		

THIS DRAWING DEVELOPED FROM LCM(6)HPI.
DRAWINGS SUPPLIED BY MARINETTE MARINE CO.
CONTRACT N0024-75-C-2090.

DRAWING PREPARED BY NAVSECNORDIV

DES		CH	
DWG		APP	
DIVISION HEAD			
DEPT HEAD			
TECH DIRECTION			
APPROVED FOR COMMENCEMENT		DATE	
CONTRACT DRAWING			

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC

LANDING CRAFT MECHANIZED LCM(6)-HPI

BOTTOM PLATING

SIZE	CODE IDENT NO	NAVSEA DRAWING NO	REV
H	53711	111-5033172	B

SCALE: 3/4 1'-0" & AS NOTED | SHEET 1 OF 1

111-5033172 | 1

8 7 6

8" CHINE

(38) 2" SPLIT PIPE

8-D1
LKG FWD-PORT OPP
SCALE: 1/4
(8-B)

5/32" RAD

FILL SLOT WITH WELD

℄ BOAT

KEEL

BOT SHELL

SECT 8-D
LKG FWD

℄ BOAT

(11) 2"x2"x5/16" ∠

℄ TUNNEL & ℄ SHAFT

(10) 2"x2"x5/16" ∠

(26) 5/16" PL

BOT PL

DET 8-B1

(9) 2"x2"x5/16" ∠

7-D

(26)

WT 1/8

2"

2"

5/16" FB

(40)

SECTION 7-D
SCALE: 1/1
(7-D)

(4) WT 3"x6"#

TYP 3/16

3"

1"x45° SNIPE AIR VENT (TYP)

(12)

ANODES

(12) 2" x 8" PL KEEL INSERT

(23)

FILL GAP BETW KEEL & SHELL & OLD CASING

ZINC ANODE SEE DET 9-B TYP

CUT FOR GRID COOLERS SEE DET 7-B FOR CASING

FR 19

FR 18 1/2 REF 4

FR 18 REF 4

WT BHD FR 17 REF 4

FR 16 1/2 REF 4

FR 16 REF 4

FR 15 1/2 REF 4

FR 15 REF 3

FR 14 1/2 REF 3

W.T. & O.T. BHD REF 3

FR 13

O.T. B.H.D. REF 3

FR 12 REF 2

FR 11 REF 2

W.T. BHD FR 10 REF 2

FR 9 REF 2

FR 8 REF 2

W.T. BHD FR 7 REF 2

FR 6 REF 1

FR 5

EL 5-D
KEEL AT ℄ BOAT
LKG TO PORT

(B)

(2) WT 3"x6"

WT

W.T. FLUSH WELD IN WAY OF SHELL LAP

6"

FR 6

WATERSTOP DET 8-C1 (TYP)

3/16

WT

WT

3/16

3" (TYP)

SPOILER DET 8-C

SIM 8-B1

3/16" ℄ GIRDER

3/16" ℄ GIRDER

3/16" ℄ GIRDER

(21) 2"x2" FB

WT

3"

(3) 3/16" PL M.D.

SPOILER DET 8-C

ZINC

SIDE SHELL REF 5

CHINE

WT

3/16

PLAN VIEW - BOTTOM PLATING
STBD LKG INBD - PORT SIDE SIM & OPP

(B)

4½" DIA CUT FOR RUDDER STOCK REF 11

8" DIA PIPING RUDDER STOCK REF 11

TRANSOM

TOP OF TUNNEL

5/8

KNU

BOT SHELL

FILL GAP BETW FLAT KEEL & CHINE WITH WELD. MAKE W.T.

CHINE

FR 19 FR 18 1/2 FR 18 FR 17 FR 16 1/2 FR 16 FR 15 1/2 FR 15

BOT PL

EL 8-C
-XG TO PORT

℄ TUNNEL & ℄ SHAFT

CUT FOR AIR VENT PIPING REF 10 DET 9-B1

6'-10"

10-A

℄ COOLER

SIM 10-B

℄ BOAT (TYP)

℄ COOLER

9 3/16 (TYP)

3 3/4 TYP

4" TYP

3/16

10-B

BOW LOG

FILL GAP BETW CHINE & BOW LKG WITH WELD MAKE W.T.

4 HOLES 8" DIA

6 HOLES 7/8" DIA

2" FLOD PL

KEEL INSERT SEE EL 5-D

DET 7-B
PLAN AT TOP OF GRID COOLERS AT △
(G-C)

(29) 3/16" PLTG

(14)

SECT C-C

FR 13

REF 6

8"

TWIST F.B. TO LINE UP WITH LONG BHD

EL 6-B
SCALE 3"=1'-0"

SUMP PIT REF 5

2 1/2" x 2 1/2" SHOE

TYP WELD FOR LONG'L JOINT AT B.HD., NEG FR. GRID CASING ETC.

EL 5-B
LONG'L 4
LKG TO PORT

(B)

TYP

8" N.S. @ 9" TYP

3/16

TYP AT W.T. & O.T. BHDS

FR 1

10-C2

10-C

6'-10"

2 11/16

10

5"

3'-0"

C1

3 3/4 (TYP)

17"

6 1/2

SIM 10-C1

CUT FOR AIR VENT PIPING REF 10 DET 9-B1

1 1/8" DIA HOLES

2 HOLES 7/8" DIA

7/8" TYP

(33) 3/4" FLOD PL

2 HOLES 3" DIA

℄ COOLER

DET 7-A
PLAN AT TOP OF OUTBD GRID COOLERS
(G-B)

1/8 TYP SHELL CONN TO BOW LOG

3/16

TRANSOM REF 1/6

(5) 2"x2"x5/16" ∠

SIDE SHELL REF 6

(7) 2"x2"x5/16" ∠

(6) 2"x2"x5/16" ∠

FR 19 FR 18 1/2 FR 18 FR 17 FR 16 1/2 FR 16 FR 15 1/2 FR 15 FR 14 FR 13 FR 12 FR 11 FR 10 FR 9 FR 8 FR 7 FR 6 FR 5

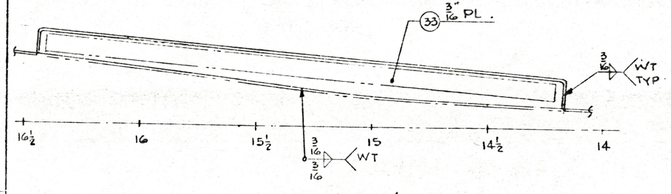
18" 18" 24" 18" 18" 18" 18" 18" 18" 18" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0"

SKEG REF 7

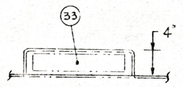
EL 5-A
CHINE ANGLE
STBD LKG INBD - PORT OPP HAND

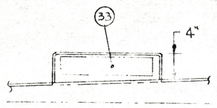
111-5033172 | 1

8 7 6



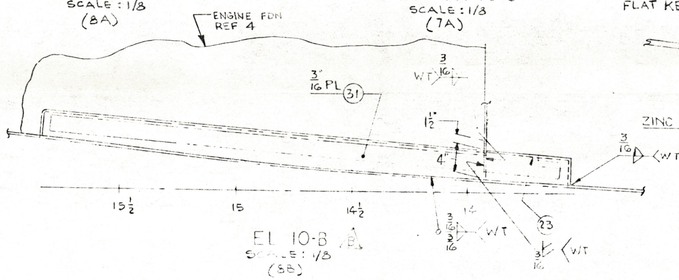
EL 10-C1
SCALE: 1/8
(8A)



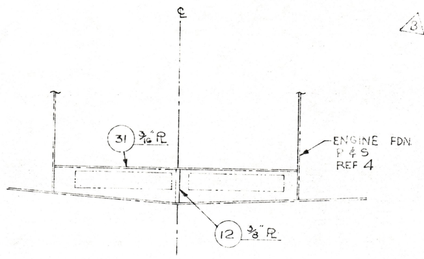


SECTION 10-C2
SCALE: 1/8
(8A)

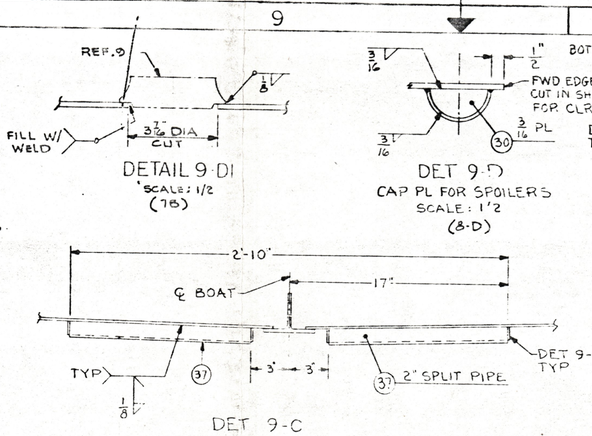
SECTION 10-C
SCALE: 1/8
(7A)



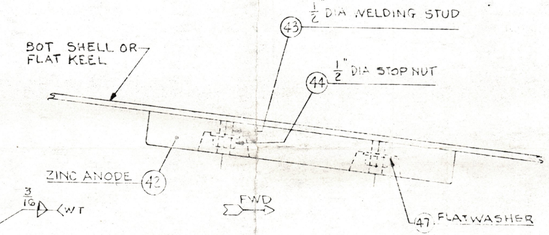
EL 10-B
SCALE: 1/8
(8B)



SECT 10-A
SCALE: 1½"=1'-0"
(7-B)



DET 9-C
℄ SPOILER
SCALE: 1/4
(6-D)

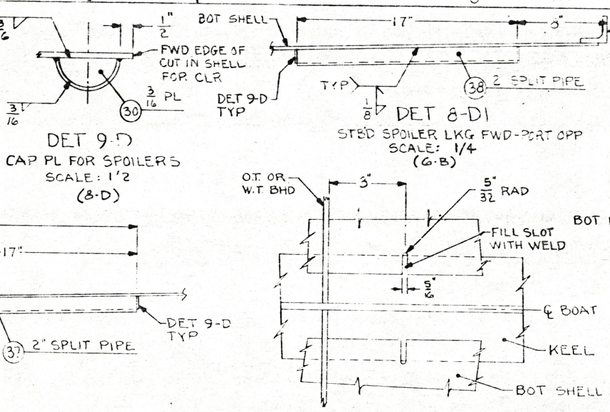


DET 9-B
TYP INSTALLATION OF ZINC ANODES
SCALE: 1/2

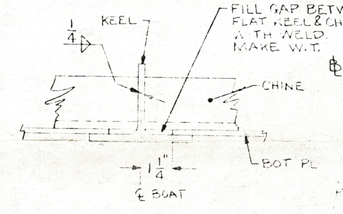
DET 9-A1
DRAIN PLUG IN CARGO DK SUMP P/S ACCESSIBLE FROM INBD SIDE ONLY
SCALE: 1/1
(6-B)

DET 9-A
TYP DOCKING PLUG
SCALE: 1/1

NOTE: WRENCH FOR PLUG REMOVAL, SEE REF. 15



DET 8-C1
TYP OIL OR WATER STOP IN WAY OF SHELL LAP & KEEL
SCALE: 1/2
(5-C)



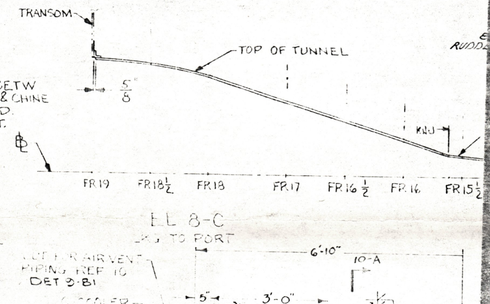
DET 8-B1
SCALE: 1/2
(8-D)

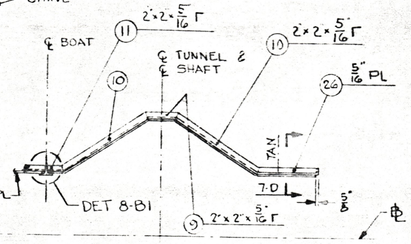
DET 8-D1
STBD SPOILER LKG FWD-PORT OPP
SCALE: 1/4
(6-B)

DET 9-B1
SCALE: NONE

DET 8-B
SCALE: 1/4
(3B)

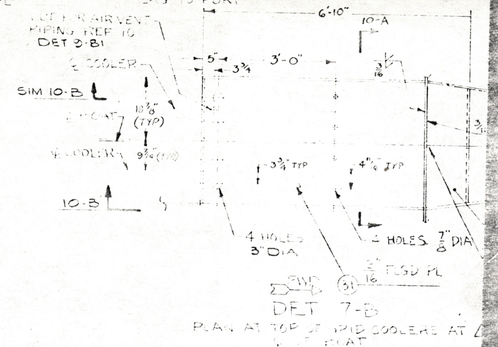
DET 8-A
SCALE: 1/4
(3-D)

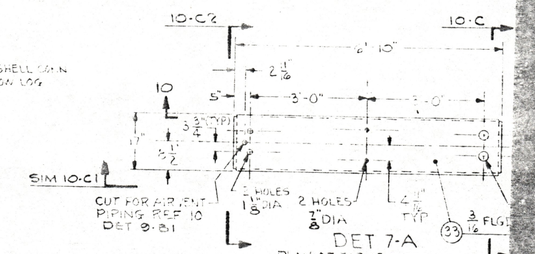




SECT 8-D
LKG FWD

EL 8-C
PORT TO PORT





111-503