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SEE SHEET 4 FOR REVISIONS

FABRICATION TOLERANCES UNLESS OTHERWISE SPECIFIED (2)

WELDMENT/FAB. & ASSY. (1)		CASTING		MACHINING/GENERAL			
DIMENSION	TOL	DIMENSION	TOLERANCE ALL PLACES	DIMENSION	TOLERANCE 1PL	2PL	3PL
ABV 0.0 TO 12.0	±.1	ABV 0.0 TO 2.0	+.06 -.06	ABV 0.00 TO 6.00	±.1	±.02	±.005
ABV 12.0 TO 24.0	±.2	ABV 2.0 TO 5.0	+.10 -.06	ABV 6.00 TO 18.00	±.1	±.04	±.010
ABV 24.0	±.3	ABV 5.0 TO 8.0	+.14 -.10	ABV 18.00 TO 36.00	±.1	±.06	±.015
		ABV 8.0 TO 12.0	+.20 -.12	ABV 36.00	±.1	±.08	±.020
DECK THICKNESS	±.2	ABV 12.0 TO 15.0	+.26 -.18	FILLETS & RADII TO BE .05 TO .14			
		ABV 15.0	+.26 -.26	SURFACE TEXTURE SYMBOLS: ANSI Y14.36-1978			
		FILLETS & RADII TO BE .05 TO .26		THREADS TO BE IN ACCORDANCE WITH FED-STD-H28			

ANGULAR: ± 1° FOR PIPING AND VENTILATION DUCTING
± .5° ANGLE BETWEEN HANGER MOUNTS (50°MIN-120°MAX)
± .5° FOR ALL OTHER APPLICATIONS

INSTALLATION TOLERANCES UNLESS OTHERWISE SPECIFIED

	PIPING		VENTILATION			ELECTRICAL			MECH	JOINER		STRUCTURE		
	PIPE	HGRS	EQUIP	DUCT	HGRS	EQUIP	WH	HGRS		WORK	FDNS	OTHER		TOL
LOCATING DIMENSIONS	±.5	± 3.0	±.3	±.5	±3.0	±.3	±.5	± 1.0	±.3	±.3	±.3	DECK TO ML (3)		±.3
LOCATING ANGLES	± 1°	± 10°			± 10°			± 5°				DECK FAIRNESS (20')		±.5
ANGLE BETWEEN MOUNTS (50°MIN-120°MAX)		± 10°			± 10°							TANK TOPS TO ML		±.3
MOUNT LOAD SETTINGS		±.05			±.05									
MOUNT ORIENTATION ANG		± 10°			± 10°									
MOUNT ANG FROM A PLANE PERP TO PIPE ℄		± 5°			± 5°	HOLE TOLERANCES - APPLY TO ALL ROUND HOLES WITHIN NOMINAL SIZE RANGE COVERED UNLESS OTHERWISE SPECIFIED									
MOUNT ANGLE FROM A PERP TO THE PLANE OF A HOSE ASSEMBLY		± 15°				HOLE DIAMETER						TOLERANCE		
ANGULAR ALIGNMENT OF BALL SOCKET/ROD END BEARING ASSY		± 4°				0.0135 TO 0.125						+.005 - -.001		
ROD LENGTH (RESILIENT)		± 2.0			± 2.0	0.126 TO 0.250						+.006 - -.001		
LENGTH OF FLAT BAR OR ROD (STRAP HANGER)		± 3.0			± 3.0	0.251 TO 0.500						+.008 - -.002		
HGR FOUNDATION LENGTH		± 1.0			± 1.0	0.501 TO 0.750						+.009 - -.002		
						0.751 TO 1.000						+.010 - -.003		
						1.001 TO 2.000						+.012 - -.004		
						2.001 TO 3.000						+.015 - -.005		

DIMENSIONING & TOLERANCING SYMBOLS: ANSI Y14.5M-1982

NOTES: 1. FABRICATION AND ASSEMBLY IS HEREBY DEFINED AS LAYOUT, SHEARING, BURNING, SHAPING AND ASSEMBLY OF PIECES. THESE FABRICATION AND ASSEMBLY TOLERANCES, WHEN APPLICABLE TO COMPLETED WELDMENTS, SHALL INCLUDE THE RESULTANT WELD DISTORTION, UNLESS OTHERWISE SPECIFIED.
2. WHERE CHAIN DIMENSIONS ARE GIVEN, TOLERANCES ON OVERALL DIMENSIONS SHALL GOVERN.
3. DECK TOLERANCE APPLIES AT STANCHION LOCATIONS.

DISTRIBUTION STATEMENT D
DISTRIBUTION AUTHORIZED TO DOD AND DOD CONTRACTORS ONLY : CRITICAL TECHNOLOGY: DETERMINED 10/16/95
OTHER REQUESTS SHALL BE REFERRED TO PROGRAM EXECUTIVE OFFICER. SUBMARINES (PMO 450)

REV	EB COST CHG NO.	NAVSEA	SHIPALT	SHIPS CHANGE APPLICABILITY

TEAM APPROVAL	
DESIGNER	M DOMBROWSKI
CHECKER	C LUNGREN
NAT LEADER	RICHARD OOREN
PROJ SUPV	L A WILLIAMS
ENGINEER	G E SIMONOFF
ENG SUPV/ SIT LEADER	T J MCGILL
NRP	KEN DIGIUSEPPE
OPERATIONS	RONALD CONOVAN
☐ NUCLEAR ☐ NON-NUCLEAR CONCURRENCE	
N/A	

CONTRACT NO. N00024-96-C-2100

ED CORP DRAWING NO. H512-0108

DOC TYPE	APPVL CAT
AD	3

AUTHORIZED B. MEIL — DATE 11/19/96

GOVERNMENT APPROVAL LETTER/DATE NOT REQUIRED

SUPSHIP NAVY APPROVAL NOT REQUIRED

ELECTRIC BOAT CORPORATION
A GENERAL DYNAMICS COMPANY
Groton, Connecticut 06340-4989
CAGE CODE 99169

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON D.C. 20362-5101

TITLE
NSSN CLASS SUBMARINE
VENTILATION HOSE CONNECTIONS

SIZE	CAGE CODE	MOD	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B

SCALE: NONE — SHEET 1 OF 18

LAST MOD 06/24/97 09.00

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NAVSEA DWG NO 6985080 | SHEET 2

TABLE OF CONTENTS & REVISION STATUS

	SHEET	QTY	TITLE	REV
	1	1	TITLE SHEET	B
(82)	2	1	TABLE OF CONTENTS	B
	3	1	RESERVATIONS	B
	4	1	REVISIONS	B
	5	1	REFERENCES	A
	6-1	1	NOTES	B
	6-2	1	NOTES	B
	7-1	1	ENGINEERING PARTS LIST	B
	7-2	1	ENGINEERING PARTS LIST	B
	7-3	1	ENGINEERING PARTS LIST	B
	7-4	1	ENGINEERING PARTS LIST	B
	7-5	1	ENGINEERING PARTS LIST	B
	7-6	1	ENGINEERING PARTS LIST	B
	7-7	1	ENGINEERING PARTS LIST	B
	8	1	HOSE CONNECTION ASSEMBLY NO. A1 - 8.0DIA	B
	9	1	ASSEMBLY A1 - FLANGE	B
	10	1	ASSEMBLY A1 - COVER	B
	11	1	ASSEMBLY A1 - STRONGBACK	B
(82)	12-1	1	DETAILS	B
	12-2	1	DETAILS	B
	13	1	HOSE CONNECTION ASSEMBLY NO. A2 - 4.0DIA	B
	14	1	ASSEMBLY A2 - FLANGE	B
	15	1	ASSEMBLY A2 - COVER	B
	16	1	ASSEMBLY A2 - STRONGBACK	B
	17	1	HOSE CONN ASSY NO. A3 - 4.0 DIA W/O COV	B
	18	1	ASSEMBLY A3 - FLANGE	B
(82)	12-3	1	DETAIL 12-G - RETAINING CLIP	B

SHEET	QTY	TITLE	REV

SIZE	CAGE CODE	WBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	ED CORP DRAWING NO. H512-0108	SHEET 2	

LAST MOD 07/03/97 13:11

ER H512-010882 SH 3 OF 5

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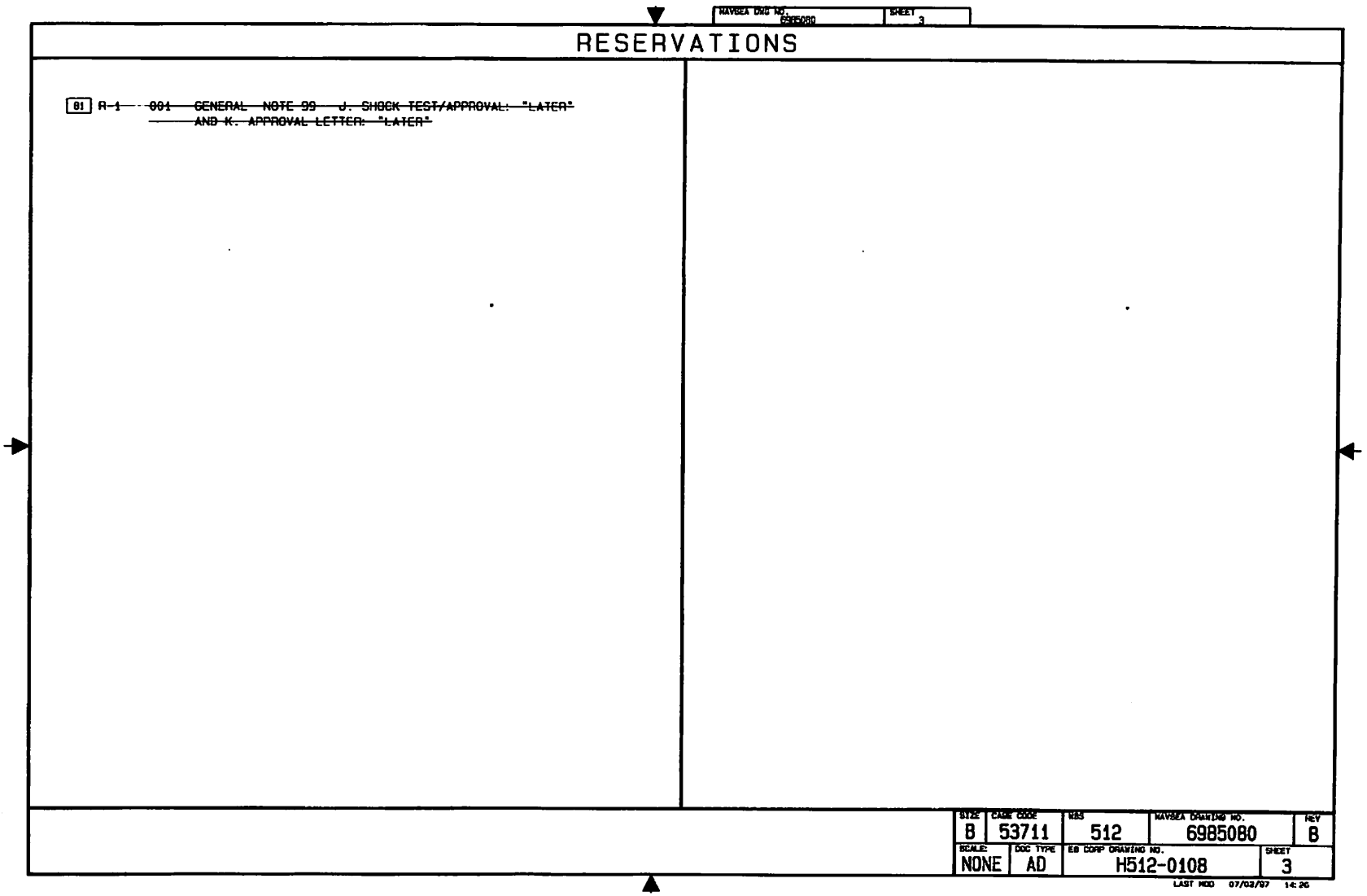

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NAVSEA DWG NO. 6985080 SHEET 4

REVISIONS

REV		DESCRIPTION	REV	DESCRIPTION
A		INITIAL ISSUE		
B	1	AUTHORITY: ERROR CORRECTION NON-MANDATORY ADDED: SH 6 - NOTE 7008 SH 12-1-DETAIL 12-C REVISED: ASSY A1, PN 17 TO PERMINENTLY ATTACH COVER ASSY PN 7, TO THE STRONGBACK ASSY PN 12. SH 8 - VIEW ADDED, RETAINING PIN PN 17 SH 9 - NOTE IN 9-B, INDENT WAS IDENT NOTE UNDER 9-A, PN 31 WAS PN 11 SH 10 - 10-B, DIM 1X DIA .750 WAS 1X DIA .257 PN 34 WAS PN 10 10-A, PN 34 WAS PN 10 SH 11 - DETAIL 11-A WAS ELEVATION 11-B, & PLAN 11-A. DETAIL 11-B WAS DETAIL 11-C, DETAIL 11-C WAS DETAIL 11-D. TITLE OF SH 12-1, & SH 12-2. SH 12-1 - DETAIL 12-A WAS ELEVATION 12-B, SECTION 12-C AND PLAN 12-A. DETAIL 12-D ADDED DIM DIA .375 SH 12-2 - DETAIL 12-E WAS ELEVATION 12-G, PLAN 12-F, & SECTION 12-H. DETAIL 12-F WAS DETAIL 12-J. DETAIL 12-F DIM DIA .31 CHANGE TO 3PLACES. DIA.310 AND OMITTED COUNTERSINK BORE. DRAWING TITLE TO MATCH 3G GENERAL NOTES 2, 39, 7000 SHEET 6 UPDATED TO LATEST REVISION. DELETED: PN 11 FROM EPL UNDER ASSY A1, PN 1, WAS IN ERROR.		
	2	AUTHORITY: RDC OC901346 DTD 021097 AND ORIGINAL CONTRACT NON-MANDATORY ADDED: ASSY A2, SH13, 14, 15, 16 AND EPL ITEMS, ASSY A3, SH 17, 18 AND EPL ITEMS REVISED: SHEET QUANITY 1 OF 18, WAS 1 OF 12. GENERAL NOTE 99 SHEET 6. DELETED: RESERVATION NOTE R-1 SHEET 3.		

DES	CKR	MAT CTR	PROJ SUPV	ENG	ENG SUP/ BTT LDR	NRP	OPS	B NUC NON NUC	AUTHORIZER	DATE	GOVT APPVL	DATE
MD			JEW 7-11-97	7/14/97	7/14/97	N/A	7-11-97	N/A		7/14/97	NOT REQUIRED	

SIZE	CAGE CODE	MSS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 4

LAST MOD 07/02/97 14:32

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REFERENCES

NO	TITLE	CAGE / CAGE	NAVSEA DWG NO / DRAWING NUMBER
1	VENTL GENERAL NOTES & STD DE	53711 96169	512-6985074 H512-0101
2	DRAWING APPROVAL PROCEDURE	53711 96169	802-6983987 H158-5001

NO	TITLE	CAGE / CAGE	NAVSEA DWG NO / DRAWING NUMBER

SIZE	CAGE CODE	MOD	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	A
SCALE: NONE	DOC TYPE AD	ED CORP DRAWING NO. H512-0108		SHEET 5

LAST MOD 11/19/93 07:50

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GENERAL NOTES

1 SECTIONS OF THE SHIP'S SPECIFICATIONS REFERRED TO HEREON ARE THOSE AS PRESENTED IN THE SPECIFICATIONS FOR BUILDING SUBMARINES NSSN CLASS WITH MODIFICATIONS AND CHANGE ORDERS AS APPLICABLE.

B1 2 EFFECTIVE ISSUES FOR ALL PRIMARY REFERENCED DOCUMENTS (E.G., PURCHASE SPECIFICATIONS, PROJECT PECULIAR DOCUMENTS, STANDARDS, NAVSEA STANDARD AND TYPE DRAWINGS, AND NAVSEA PUBLICATIONS) LISTED IN OR INVOKED BY THE NSSN SHIP SPECIFICATIONS SHALL BE AS REQUIRED IN SECTION 042 OF THE NSSN SHIP SPECIFICATIONS.

4 QUANTITIES ARE GIVEN FOR ONE ASSEMBLY.

7 UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN INCHES.

10 THIS DRAWING SHALL BE FOLLOWED WITHOUT DEVIATION UNLESS OTHERWISE APPROVED BY THE DRAWING APPROVAL AUTHORITY IN ACCORDANCE WITH THE NSSN CLASS SUBMARINE DRAWING APPROVAL PROCEDURE (NAVSEA DWG. NO. 802-6983987).

13 ABBREVIATIONS ARE IN ACCORDANCE WITH MIL-STD-12 EXCEPT AS OTHERWISE DEFINED ON THIS DRAWING.

B1 39 THE USE OF THE "MF" (MAKE FROM) DESIGNATOR IN THE "M/E" FIELD INDICATES THE ITEM IS MADE FROM BASIC STOCK MATERIAL. END USE IDENTIFICATION IS TO BE SUPPLIED BY THE CONSTRUCTION ACTIVITY AS REQUIRED.

71 UNLESS OTHERWISE NOTED, ALL TOLERANCES SHALL BE IN ACCORDANCE WITH THE TOLERANCE BLOCK.

B2 99 HOSE CONNECTIONS SHOWN ON THIS DRAWING HAS BEEN APPROVED AS MEETING THE SHOCK QUALIFICATION REQUIREMENTS OF SECTION 072 OF THE NSSN CLASS SHIPS SPECIFICATIONS AND MIL-S-901D, INT. CHG. NO. 1, FOR HIGH IMPACT (H.I.) SHOCK. THE FOLLOWING ATTRIBUTES APPLY (NOTE: IF THE APPROVAL REFERENCE "K" (BELOW) STATES "LATER", IT SHOULD BE ASSUMED THAT THE SHOCK QUALIFICATION HAS NOT YET BEEN ACCOMPLISHED, UNLESS IT CAN BE CONFIRMED OTHERWISE):

A. SHOCK QUALIFICATION METHOD: ANALYSIS
B. SHOCK TEST CATEGORY: N/A
C. SHOCK GRADE: B
D. EQUIPMENT CLASS: II
E. EQUIPMENT HOLD-DOWN MEANS: N/A
F. SHOCK TEST TYPE: A
G. SHIPBOARD MOUNTING LOCATION: HULL MOUNTED
H. SHIPBOARD MOUNTING PLANE: BASE
I. SHIPBOARD MOUNTING ORIENTATION: UNRESTRICTED
J. SHOCK TEST / ANALYSIS REPORT: EB CORP ENGINEERING CALCULATION KK-061897 DTD 18 JUN 97
K. APPROVAL LETTER: NSSN/9072 SER 220F/3319 , DATED 10 JULY 1997
L. LIMITATIONS: NONE

132 REFER TO REFERENCE 2 FOR PROCEDURES GOVERNING LIAISON BETWEEN SHIPBUILDER AND DESIGN AGENT RELATIVE TO THIS DRAWING.

2507 FOR ADDITIONAL INFORMATION AND NOTES PERTAINING TO THIS DRAWING, SEE REFERENCE 1.

B1 7000 ALL 7000 SERIES NOTES ARE UNIQUE TO THIS DRAWING. TEXT FOR THESE NOTES IS NOT THE SAME ON ALL DRAWINGS.

7001 BREAK ALL EDGES AND CORNERS R .02 OR 45 DEGREES X .02, UNLESS OTHERWISE INDICATED.

7002 INSPECTED AND ACCEPTED ASSEMBLIES SHALL BE PROTECTED AGAINST DAMAGE DURING STORAGE AND SHIPMENT

7003 COMPONENTS AND ASSEMBLIES OF COMPONENTS SHALL BE THOROUGHLY CLEANED AFTER FABRICATION AND BEFORE INSTALLATION IN THE SHIP TO REMOVE LOOSE PARTICLES, GREASE, DIRT, AND OIL.

7004 UNLESS SPECIFIED, ALL FILLET WELD SIZES SHALL BE NOMINALLY THE SAME SIZE AS THE THINNEST MEMBER BEING WELDED, BUT IN NO CASE LARGER THAN 0.25 INCHES.

7005 MACHINING SYMBOLS AND GEOMETRIC DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M-1982.

7006 UNLESS OTHERWISE INDICATED, SURFACE ROUGHNESS OF MACHINED SURFACES SHALL NOT EXCEED 125RA (MIRCOINCHES) IN ACCORDANCE WITH ANSI B46.1. SURFACE FINISH SYMBOLS ARE IN ACCORDANCE WITH ANSI Y14.36.

SIZE	CAGE CODE	MSS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 6-1

LAST MOD 07/11/97 09:14

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GENERAL NOTES

7007 THE CONNECTING RING REFERRED TO HEREIN, IS A FEMALF-CONNECTOR PROVIDED WITH THE FLEX HOSE ASSEMBLY, SIMILAR TO THAT SHOWN ON BUSHIP'S DRAWING S3801-607819 REV. D.

[81] 7008 THE RETAINING PIN, (PN 17) PERMANENTLY RETAINS THE COVER ASSEMBLY TO THE STRONGBACK ASSEMBLY. THE PLUG WELDS SHOWN ON SHEETS 11, AND 16, ARE TO BE ACCOMPLISHED AT THE FINAL ASSEMBLY OF THE COVER TO THE STHONGBACK.

SIZE	CAGE CODE	MSO	NAVSEA DRAWING NO	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	ED CORP DRAWING NO. H512-0108		SHEET 6-2

LAST MOD 07/11/97 DR 14

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ENGINEERING PARTS LIST

EPL DEFINITIONS

MF/EQ PART NO.	MAKE FROM OR EQUIVALENT PART NO. OR BLANK IF NOT APPLICABLE
PS LVL	PRODUCT STRUCTURE LEVEL
REV	AUTHORIZING REVISION OF EPL RECORD
PSC	PART STATUS CODE (F=FINAL, O=OPTIONAL, A=ALTERNATE, I=INFORMATION, E=ESTIMATE)
SS	SUBSAFE MATERIAL IDENTIFICATION (SS = SUBSAFE; NS = NOT SUBSAFE)
HI	HULL INTEGRITY MATERIAL (YES OR NO)
LVL	MATERIAL IDENTIFICATION AND CONTROL LEVEL (I, III OR NA)
C/G	CONTRACTOR (CON) OR GOVERNMENT (GFE) FURNISHED MATERIAL
M/E	MAKE FROM (MF) OR EQUIVALENT (EQ) PART CODE OR BLANK
PICL	PIPE CLASS
PART NAME	PART NAME INCLUDING NOUN NAME, TYPE, MODIFIER
MF/EQ PART NAME	MF/EQ PART NAME INCLUDING NOUN NAME, TYPE, MODIFIER
DESCRIPTION	PART OR MF/EQ PART DESCRIPTION IF APPLICABLE (MAT'L, SIZE, PRESSURE RATING, ELECTRICAL CABLE/COMP TYPE)
CAGE/SPECIFICATION	PRIMARY SPECIFICATIONS (DOCUMENTS) FOR THE PART WITH THEIR ASSOCIATED CAGE CODES AND SPECIFICATION CLASS DATA
CAGE	COMMERCIAL AND GOVERNMENT ENTITY CODE
TILE SYSTEM	TILE SYSTEM APPLIED TO THE PART
HSC	HIERARCHICAL STRUCTURE CODE
CLHAP	CLASS AND HULL APPLICABILITY
UM	UNIT OF MEASURE
QTY	QUANTITY

SIZE	CAGE CODE	MOD	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB COMP DRAWING NO. H512-0108		SHEET 7-1

LAST MOD 07/14/97 07:21

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ENGINEERING PARTS LIST - QTY PER ASSY

	PART NUMBER / PS LVL / MF/EQ PART NO.	REV / PSC / C/G	SS / HI / LVL	QTY / UM / M/E / PICL	PART NAME / MF/EQ PART NAME / DESCRIPTION / CAGE/SPECIFICATION	REMARKS 1 / REMARKS 2 / REMARKS 3 / TILE SYSTEM HSC	CLHAP
B1	A1 1	B F CON	NS NO NA	1 PC	HOSE CONNECTION FLEX VENTILATION	8.0 INCH DIAMETER SEE SHEET 8 NONE	NSSN
B1	1 2	B F CON	NS NO NA	1 PC	FLANGE ASSY HOSE CONN VENTILATION	SEE SHEET 9 NONE	NSSN
	2 3 22-62-0125A	A F CON	NS NO NA	1 PC MF	FLANGE MOUNTING VENTL HOSE CONN SHEET CRES 304 0.125 THICK 81348/QQ-S-766 CL-304 COND A	NONE	NSSN
	3 3 22-62-0125A	A F CON	NS NO NA	1 PC MF	RING RETAINING VENTL HOSE CONN SHEET CRES 304 0.125 THICK 81348/QQ-S-766 CL-304 COND A	NONE	NSSN
	4 3 22-72-0062A	A F CON	NS NO NA	2 PC MF	CLIP RETAINING VENTL HOSE CONN SHEET CRES 304 0.062 THICK 81348/QQ-S-766 CL-304 COND-A FIN-2B	SEE SHEET 12-1 NONE	NSSN
	5 3 211024901	A F CON	NS NO NA	1 PC MF	SCREEN VENTILATION WIRE FABRIC INDUSTRIAL CRES 304 2 X 2 MESH X 48.000 WIDE 81348/RR-W-360 TY-I, CL-1, CMPSN-304	0.063 DIA WIRE NONE	NSSN
	6 3 EB211015942	A F CON	NS NO NA	2 PC MF	PIN ALIGNMENT VENTL HOSE CONN WIRE ROUND COLD FINISHED CRES 304 0.188 81348/QQ-S-763 CL-304, COND-B	NONE	NSSN
B1	~~11~~ ~~3~~ ~~211073386~~	~~B~~ ~~F~~ ~~CON~~	~~NS~~ ~~NO~~ ~~NA~~	~~1~~ ~~PC~~ ~~MF~~	~~GASKET COVER VENTL HOSE CONN~~ ~~SHEET~~ ~~SYNTH RBR 36.000WX300.000LX0.125THK~~ ~~81349/MIL-R-6855/1 M6855/1-102087~~	~~NONE~~	~~NSSN~~
	20 3 22-62-0125A	A F CON	NS NO NA	1 PC MF	RETAINER SCREEN VENTL HOSE CONN SHEET CRES 304 0.125 THICK 81348/QQ-S-766 CL-304 COND A	NONE	NSSN
B1	31 3 211073386	B F CON	NS NO NA	1 PC MF	GASKET COVER VENTL HOSE CONN SHEET SYNTH RBR 36.000WX300.000LX0.125THK 81349/MIL-R-6855/1 M6855/1-102087	NONE	NSSN

SIZE	CAGE CODE	MOD	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 7-2

LAST MOD 07/14/97 07:21

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ENGINEERING PARTS LIST - QTY PER ASSY

	PART NUMBER / PS LVL / MF/EQ PART NO.	REV / PSC / C/G	SS / HT / LVL	QTY / UM / M/E / PICL	PART NAME / MF/EQ PART NAME / DESCRIPTION / CAGE/SPECIFICATION			REMARKS 1 / REMARKS 2 / REMARKS 3 / TILE SYSTEM HSC	CLHAP
B1	7 2	B F CON	NS NO NA	1 PC	COVER ASSY	HOSE CONN	VENTILATION	SEE SHEET 10 NONE	NSSN
	8 3 22-72-0062A	A F CON	NS NO NA	1 PC MF	COVER SHEET CRES 304 81348/QQ-S-766	HOSE CONN 0.062 THICK CL-304 COND-A FIN-2B	VENTILATION	NONE	NSSN
	9 3 211015951	A F CON	NS NO NA	1 PC MF	SLEEVE BAR CRES 304 81348/QQ-S-763	GUIDE ROUND 0.500 DIA CL-304 COND-B	VENTL HOSE COVER COLD FINISHED	SEE SHEET 12-2 NONE	NSSN
	10 3 211058473	A F CON	NS NO NA	1 PC MF	BEARING PLATE SHEET CRES 304 81348/QQ-S-766	COVER 0.109 THK CL-304 COND-A FIN-2D (BS)	VENTL HOSE CONN	SEE SHEET 12-1 NONE	NSSN
	11 3 211073386	A F CON	NS NO NA	1 PC MF	GASKET SHEET SYNTH RBR 81349/MIL-R-6855/1	COVER 36.000WX300.000LX0.125THK M6855/1-102087	VENTL HOSE CONN	SEE SECTION 10-B NONE	NSSN
B1	12 2	B F CON	NS NO NA	1 PC	STRONGBACK ASSY	HOSE CONN	VENTILATION	SEE SHEET 11 NONE	NSSN
	13 3 22-72-0062A	A F CON	NS NO NA	1 PC MF	STRONGBACK SHEET CRES 304 81348/QQ-S-766	 0.062 THICK CL-304 COND-A FIN-2B	VENTL HOSE CONN	NONE	NSSN
	14 3 211058473	A F CON	NS NO NA	1 PC MF	LEVER SHEET CRES 304 81348/QQ-S-766	LOCKING 0.109 THK CL-304 COND-A FIN-2D (BS)	STRONGBACK	SEE SHEET 12-2 NONE	NSSN
B1	15 3 37-40-7802	B F CON	NS NO NA	1 PC MF	PIN BAR PHBRZ 81348/QQ-B-750	HINGE ROUND 0.125 CNPSN-A, TEM-HARD	LEVER	SEE SECTION 11-C SHEET 11 NONE	NSSN
B1	16 3 25-27-0253	B F CON	NS NO NA	2 PC MF	WASHER SHEET BRS 81348/QQ-B-613	PIN SECURING 0.0253 THICK ALY 260 1/2H	LOCKING LEVER	SEE SECTION 11-C SHEET 11 0.1331D X 0.2810D NONE	NSSN

SIZE	CAGE CODE	WBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE	DOC TYPE	EB CORP DRAWING NO.		SHEET
NONE	AD	H512-0108		7-3

LAST MOD 07/14/97 07:21

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ENGINEERING PARTS LIST - QTY PER ASSY

	PART NUMBER / PS LVL / MF/EQ PART NO.	REV / PSC / C/G	SS / HI / LVL	QTY / UM / M/E / PICL	PART NAME / MF/EQ PART NAME / DESCRIPTION / CAGE/SPECIFICATION			REMARKS 1 / REMARKS 2 / REMARKS 3 / TILE SYSTEM	CLHAP
B1	17 2 E8211015847	B F CON	NS NO NA	1 PC MF	PIN BAR CRES 304 81348/QQ-S-763 CL-304 COND-A	RETAINING ROUND 0.375	STRONGBACK HOT FINISHED	SEE SHEET 12-1 NONE	NSSN
	18 2 211028598	A F CON	NS NO NA	1 PC MF	WIRE ROPE WIRE ROPE CRES 81348/MIL-W-83420 1Y-I, COMP-B	FLEXIBLE FLEXIBLE 0.063 DIA, 7 X 7 CONSTR		SEE PLAN B-A NONE	NSSN
	19 2 216018182	A F CON	NS NO NA	2 PC EQ	SLEEVE SLEEVE CU 20388/NO 26-1-C	SWAGING SWAGING 0.063 CABLE SIZE	WR WR	SEE PLAN B-A NONE	NSSN
B2	A2 1	B F CON	NS NO NA	1 PC	HOSE CONNECTION FLEX W/COVER ASSY		VENTILATION	4.0 INCH DIAMETER NONE	NSSN
B2	21 2	B F CON	NS NO NA	1 PC	FLANGE ASSY	HOSE CONN	VENTILATION	SEE SHEET 14 NONE	NSSN
B2	4 3 22-72-0082A	B F CON	NS NO NA	2 PC MF	CLIP SHEET CRES 304 81348/QQ-S-766 CL-304 COND-A FIN-2B	RETAINING 0.082 THICK	VENTL HOSE CONN	SEE SHEET 12-1 NONE	NSSN
B2	8 3 E8211015942	B F CON	NS NO NA	2 PC MF	PIN WIRE CRES 304 81348/QQ-S-763 CL-304, COND-B	ALIGNMENT ROUND 0.188	VENTL HOSE CONN COLD FINISHED	 NONE	NSSN
B2	22 3 22-82-0125A	B F CON	NS NO NA	1 PC MF	FLANGE SHEET CRES 304 81348/QQ-S-766 CL-304 COND A	MOUNTING 0.125 THICK	VENTL HOSE CONN	 NONE	NSSN
B2	23 3 22-82-0125A	B F CON	NS NO NA	1 PC MF	RING SHEET CRES 304 81348/QQ-S-766 CL-304 COND A	RETAINING 0.125 THICK	VENTL HOSE CONN	 NONE	NSSN
B2	24 3 22-82-0125A	B F CON	NS NO NA	1 PC MF	RETAINER SHEET CRES 304 81348/QQ-S-766 CL-304 COND A	SCREEN 0.125 THICK	VENTL HOSE CONN	 NONE	NSSN

SIZE	CAGE CODE	MSS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 7-4

LAST MOD 07/14/97 07:21

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ENGINEERING PARTS LIST - QTY PER ASSY

	PART NUMBER / PS LVL / MF/EQ PART NO.	REV / PSC / C/G	SS / HI / LVL	QTY / UM / M/E / PICL	PART NAME / MF/EQ PART NAME / DESCRIPTION / CAGE/SPECIFICATION			REMARKS 1 / REMARKS 2 / REMARKS 3 / TILE SYSTEM HSC	CLHAP
B2	29 3 211073388	B F CON	NS NO NA	1 PC MF	GASKET SHEET SYNTH RBR 81349/MIL-R-6855/1 M6855/1-102087	COVER 36.000WX300.000LX0.125THK	VENTL HOSE CONN	SEE DETAIL 14-C SHEET 14 NONE	NSSN
B2	32 3 211024901	B F CON	NS NO NA	1 PC MF	SCREEN WIRE CRES 304 81348/RR-W-360 TY-I, CL-1, CMPSN-304	VENTILATION FABRIC 2 X 2 MESH X 48.000 WIDE	 INDUSTRIAL	0.063 DIA WIRE NONE	NSSN
B2	17 2 EB211015947	B F CON	NS NO NA	1 PC MF	PIN BAR CRES 304 81348/QQ-S-763 CL-304 COND-A	RETAINING ROUND 0.375	STRONGBACK HOT FINISHED	SEE SHEET 12-1 NONE	NSSN
B2	18 2 211028598	B F CON	NS NO NA	1 PC MF	WIRE ROPE WIRE ROPE CRES 81349/MIL-W-83420 TY-I, COMP-B	FLEXIBLE FLEXIBLE 0.063 DIA, 7 X 7 CONSTR		SEE PLAN 13-A NONE	NSSN
B2	19 2 216018182	B F CON	NS NO NA	2 PC EQ	SLEEVE SLEEVE CU 20386/NO 26-1-C	SWAGING SWAGING 0.063 CABLE SIZE	NR NR	SEE PLAN 13-A NONE	NSSN
B2	25 2	B F CON	NS NO NA	1 PC	COVER ASSY	HOSE CONN	VENTILATION	SEE SHEET 15 NONE	NSSN
B2	9 3 211015951	B F CON	NS NO NA	1 PC MF	SLEEVE BAR CRES 304 81348/QQ-S-763 CL-304 COND-B	GUIDE ROUND 0.500 DIA	VENTL HOSE COVER COLD FINISHED	SEE SHEET 12-2 NONE	NSSN
B2	10 3 211058473	B F CON	NS NO NA	1 PC MF	BEARING PLATE SHEET CRES 304 81348/QQ-S-766 CL-304 COND-A FIN-2D (BS)	COVER 0.109 THK	VENTL HOSE CONN	SEE SHEET 12-1 NONE	NSSN
B2	26 3 22-72-0082A	B F CON	NS NO NA	1 PC MF	COVER SHEET CRES 304 81348/QQ-S-766 CL-304 COND-A FIN-2B	HOSE CONN 0.062 THICK	VENTILATION	 NONE	NSSN
B2	30 3 211073385	B F CON	NS NO NA	1 PC MF	GASKET SHEET SYNTH RBR 81349/MIL-R-6855/1 M6855/1-102087	COVER 36.000WX300.000LX0.125THK	VENTL HOSE CONN	SEE SECTION 15-B NONE	NSSN

SIZE	CAGE CODE	MBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 7-5

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ENGINEERING PARTS LIST - QTY PER ASSY

	PART NUMBER / PS LVL / NF/EQ PART NO.	REV / PSC / C/G	SS / NI / LVL	QTY / UN / M/E / PICL	PART NAME / NF/EQ PART NAME / DESCRIPTION / CAGE/SPECIFICATION	REMARKS 1 / REMARKS 2 / REMARKS 3 / TILE SYSTEM HSC	CLHAP
B2	27 2	B F CON	NS NO NA	1 PC	STRONGBACK ASSY HOSE CONN VENTILATION	SEE SHEET 16 NONE	NSSN
B2	14 3 211058473	B F CON	NS NO NA	1 PC NF	LEVER LOCKING STRONGBACK SHEET CRES 304 0.109 THK 81348/QQ-S-766 CL-304 COND-A FIN-2D (BS)	SEE SHEET 12-2 NONE	NSSN
B2	15 3 37-40-7802	B F CON	NS NO NA	1 PC NF	PIN HINGE LEVER BAR ROUND PHBRZ 0.125 81348/QQ-B-750 CMPSN-A, TEM-HARD	SEE DETAIL 16-B SHEET 16 NONE	NSSN
B2	16 3 25-27-0253	B F CON	NS NO NA	2 PC NF	WASHER PIN SECURING LOCKING LEVER SHEET BRS 0.0253 THICK 81348/QQ-B-613 ALY 260 1/2H	SEE DETAIL 16-B SHEET 16 0.1331D X 0.2810D NONE	NSSN
B2	20 3 22-72-0062A	B F CON	NS NO NA	1 PC NF	STRONGBACK VENTL HOSE CONN SHEET CRES 304 0.062 THICK 81348/QQ-S-766 CL-304 COND-A FIN-2B	NONE	NSSN
B2	A3 1	B F CON	NS NO NA	1 PC	HOSE CONNECTION FLEX W/O COVER ASSY VENTILATION	4.0 INCH DIAMETER W/O COVER SEE SHEET 17 NONE	NSSN
B2	33 2	B F CON	NS NO NA	1 PC	FLANGE ASSY HOSE CONN VENTILATION	SEE SHEET 18 NONE	NSSN
B2	22 3 22-82-0125A	B F CON	NS NO NA	1 PC NF	FLANGE MOUNTING VENTL HOSE CONN SHEET CRES 304 0.125 THICK 81348/QQ-S-766 CL-304 COND A	NONE	NSSN
B2	23 3 22-82-0125A	B F CON	NS NO NA	1 PC NF	RING RETAINING VENTL HOSE CONN SHEET CRES 304 0.125 THICK 81348/QQ-S-766 CL-304 COND A	NONE	NSSN
B2	4 3 22-72-0062A	B F CON	NS NO NA	2 PC NF	CLIP RETAINING VENTL HOSE CONN SHEET CRES 304 0.062 THICK 81348/QQ-S-766 CL-304 COND-A FIN-2B	SEE SHEET 12-1 NONE	NSSN

SIZE	CAGE CODE	MOD	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 7-6

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ENGINEERING PARTS LIST - QTY PER ASSY

	PART NUMBER / PS LVL / MF/EQ PART NO.	REV / PSC / C/G	SS / HI / LVL	QTY / UN / M/E / PIC	PART NAME / MF/EQ PART NAME / DESCRIPTION / CAGE/SPECIFICATION			REMARKS 1 / REMARKS 2 / REMARKS 3 / TILE SYSTEM HSC	CLHAP
B2	8 3 E8211015942	B F CON	NS NO NA	2 PC MF	PIN WIRE CRES 304 81348/QQ-S-763	ALIGNMENT ROUND 0.188 CL-304, COND-B	VENTL HOSE CONN COLD FINISHED	 NONE	NSSN
B2	24 3 22-82-0125A	B F CON	NS NO NA	1 PC MF	RETAINER SHEET CRES 304 81348/QQ-S-766	SCREEN 0.125 THICK CL-304 COND A	VENTL HOSE CONN	 NONE	NSSN
B2	32 3 211024901	B F CON	NS NO NA	1 PC MF	SCREEN WIRE CRES 304 81348/RR-W-360	VENTILATION FABRIC 2 X 2 MESH X 48.000 WIDE TY-I, CL-1, CMPSN-304	 INDUSTRIAL	0.063 DIA WIRE NONE	NSSN

SIZE	CAGE CODE	MSS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: NONE	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 7-7

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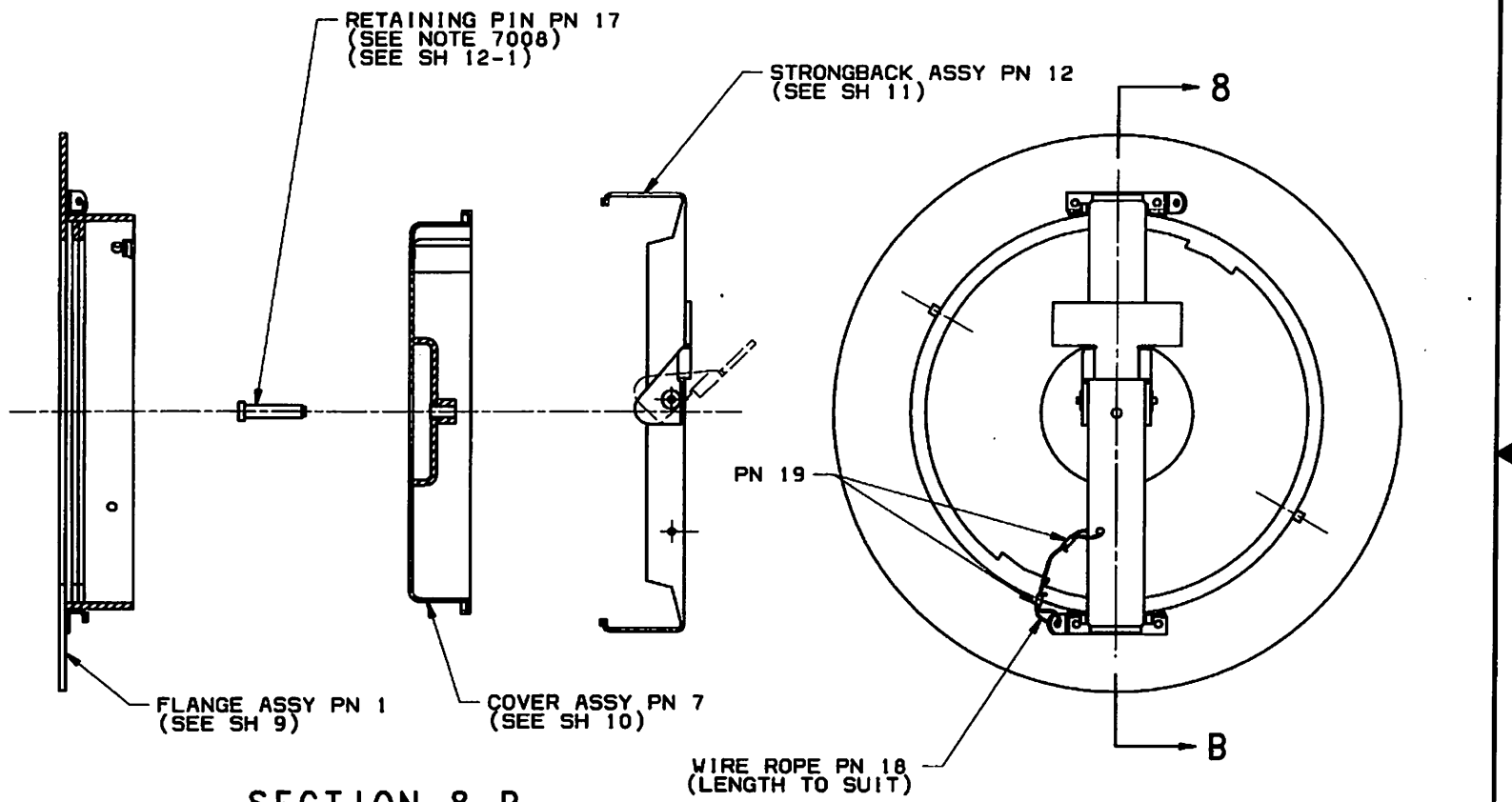

SECTION 8-B

PLAN 8-A

HOSE CONNECTION ASSEMBLY NO.A1

FOR 8.0 INCH DIAMETER HOSE

SIZE	CAGE CODE	VSS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: 1/2	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 8

07/08/97 07:55

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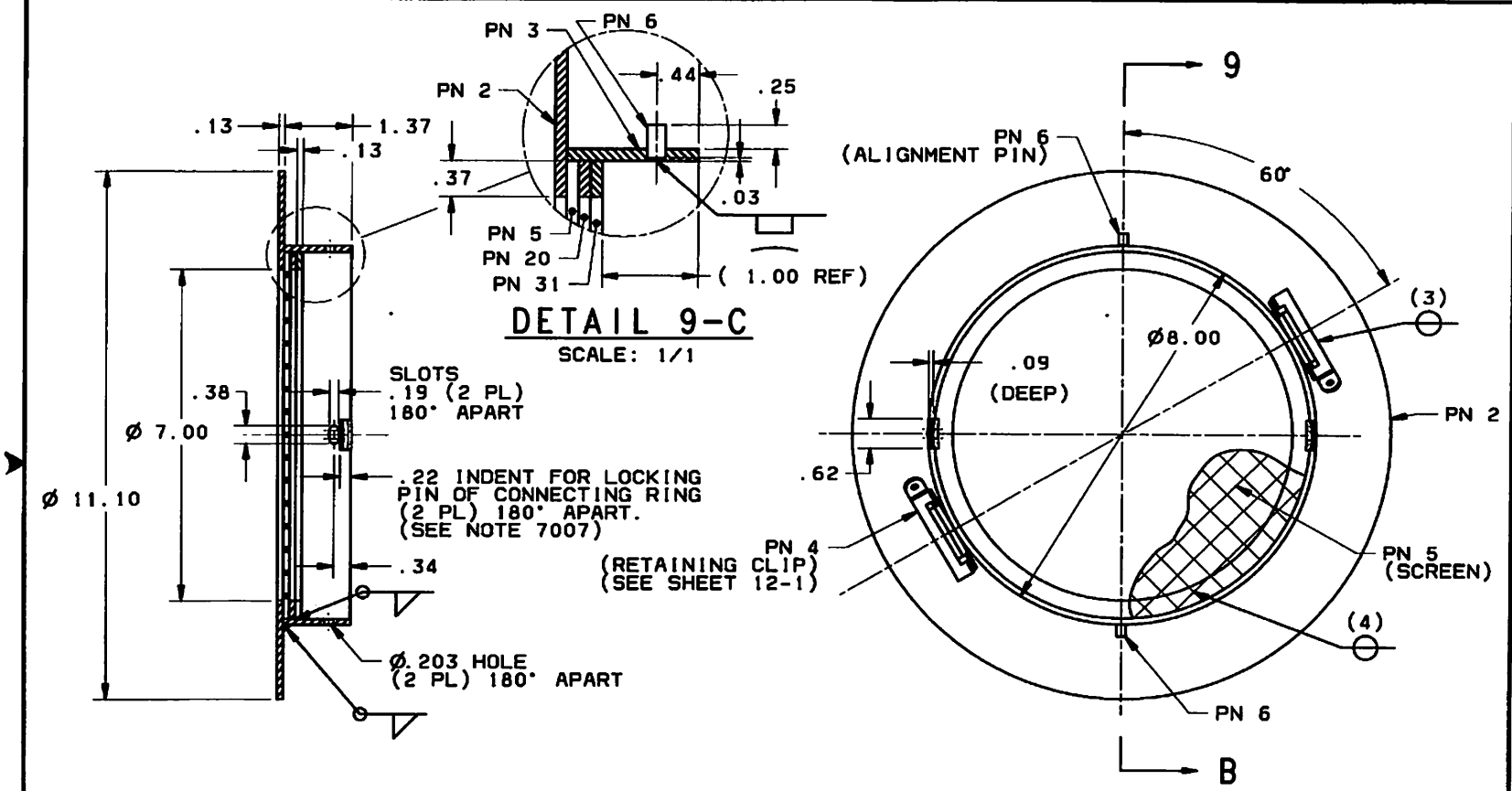

DETAIL 9-C
SCALE: 1/1

SECTION 9-B
PN 6 NOT SHOWN
SCALE: 1/2

PLAN 9-A
PN 31 AND PN 20 NOT SHOWN FOR CLARITY
SCALE: 1/2

ASSEMBLY A1-FLANGE
FLANGE ASSY PN 1

SIZE	CAGE CODE	VSS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: AS NOTED	DGE TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 9

07/07/97 13:18

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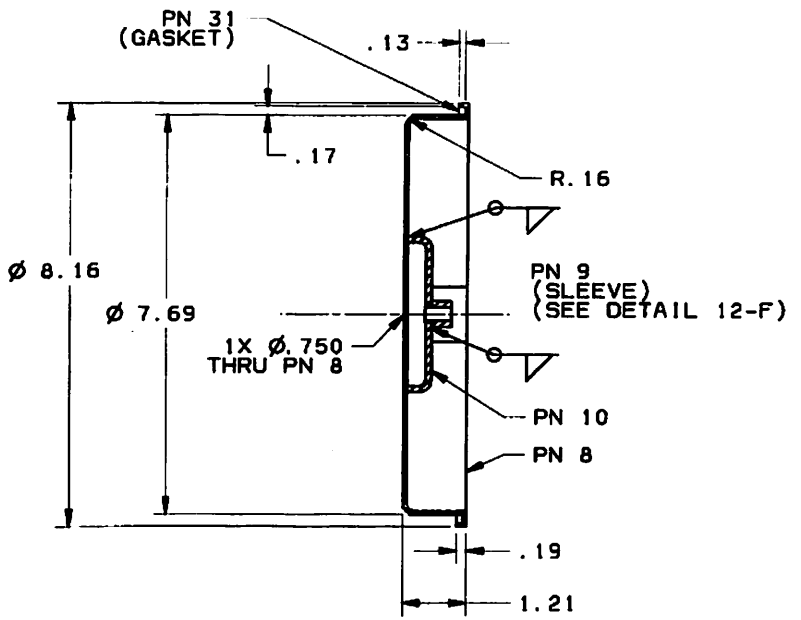
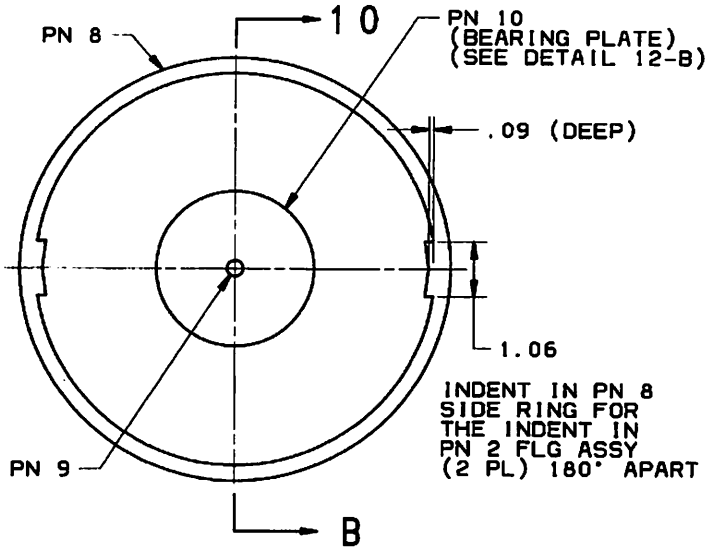


SECTION 10-B



PLAN 10-A

ASSEMBLY A1-COVER

COVER ASSY PN 7

SIZE	CAGE CODE	USE	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: 1/2	DOC TYPE AD	ED CORP DRAWING NO. H512-0108		SHEET 10

07/11/97 09:32

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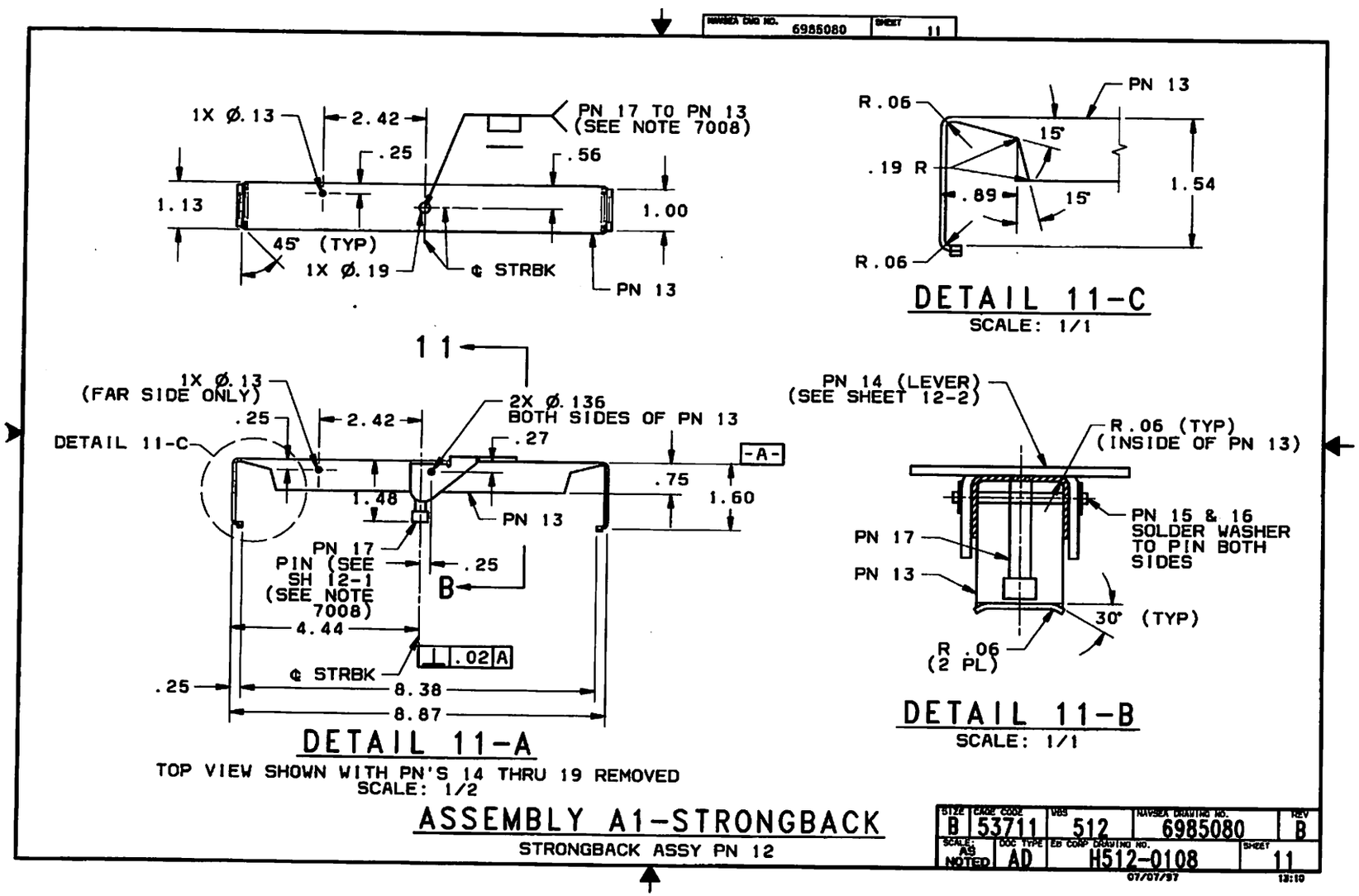

NAVSEA 1 NOV 1999 07.02.27

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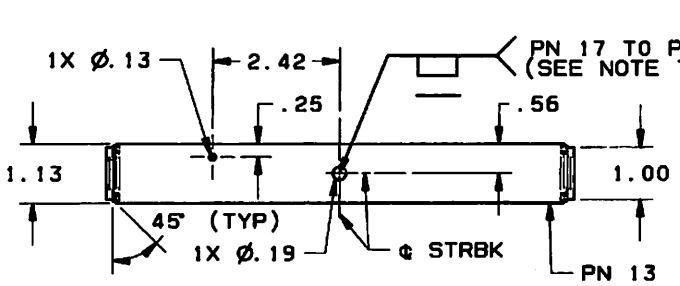
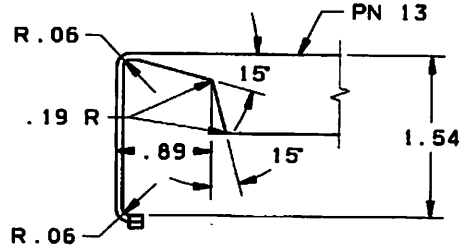
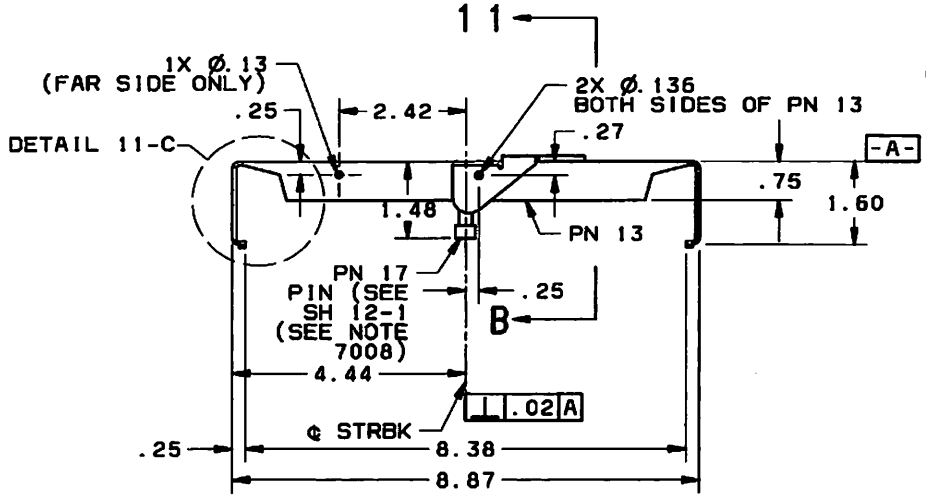
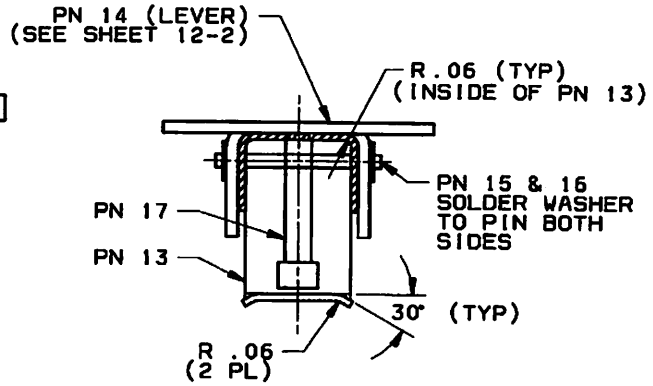




DETAIL 11-C
SCALE: 1/1



DETAIL 11-A
TOP VIEW SHOWN WITH PN'S 14 THRU 19 REMOVED
SCALE: 1/2



DETAIL 11-B
SCALE: 1/1

ASSEMBLY A1-STRONGBACK

STRONGBACK ASSY PN 12

SIZE	CAGE CODE	VBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: AS NOTED	DOC TYPE AD	ED CORP DRAWING NO. H512-0108		SHEET 11

07/07/97 13:10

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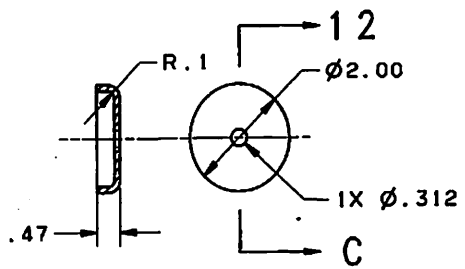
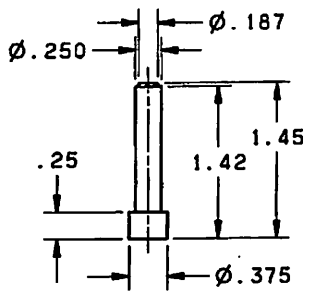
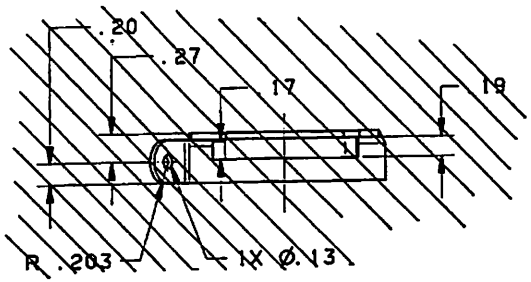
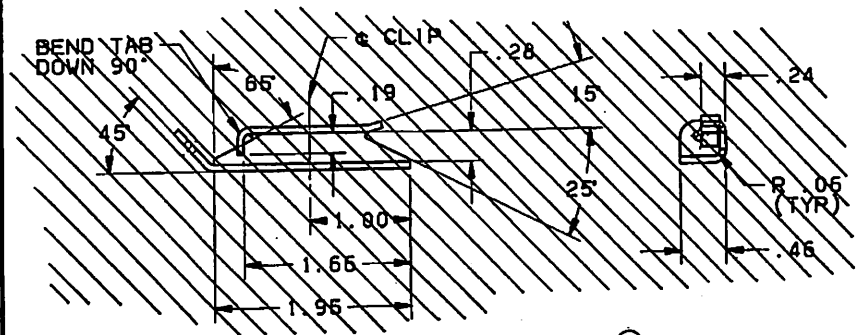


DETAIL 12-C
BEARING PLATE PN 34
SCALE: 1/2

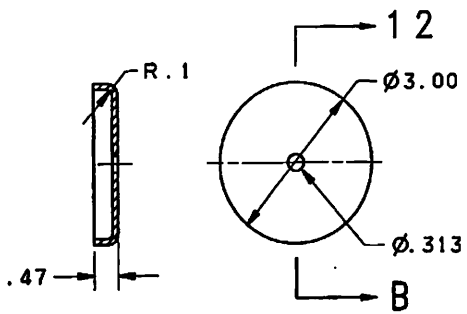


DETAIL 12-D
RETAINING PIN PN 17
SCALE: 1/1





DETAIL 12-A (82)
RETAINING CLIP PN 4
SCALE: 1/1



DETAIL 12-B
BEARING PLATE PN 10
SCALE: 1/2

DETAILS

ER H512-010882 SH 4 OF 5

SIZE	CAGE NO.	ESWBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: AS NOTED	DOC TYPE AD	ES DIV DRAWING NO. H512-0108		SHEET 12-1

07/07/97 13:22

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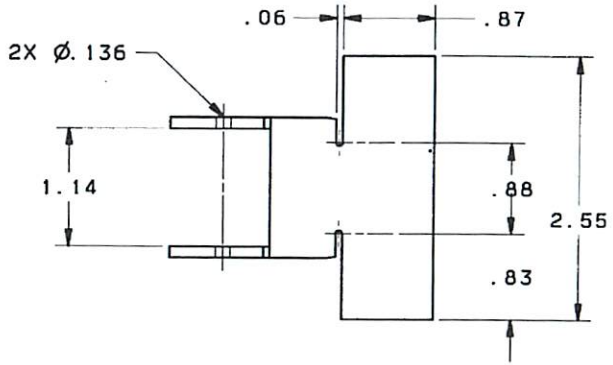
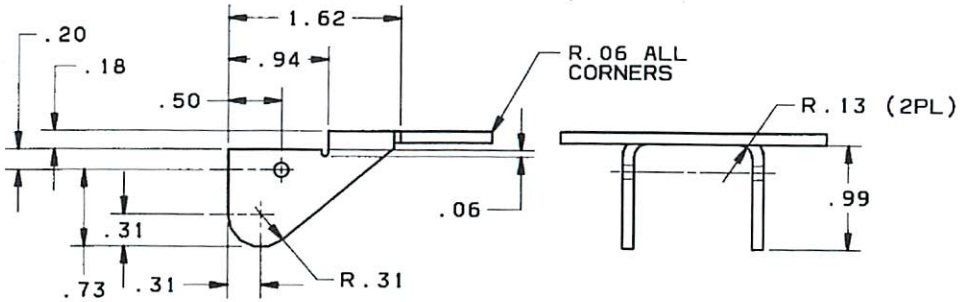
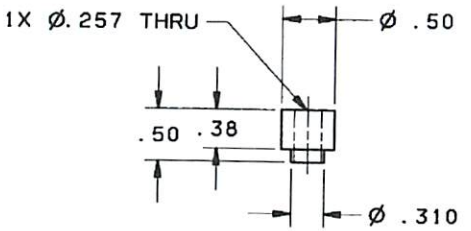




DETAIL 12-E
LEVER PN 14



DETAIL 12-F
SLEEVE PN 9

DETAILS

SIZE	CAGE NO.	ESWBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: 1/1	DOC TYPE AD	EB DIV DRAWING NO. H512-0108		SHEET 12-2

07/01/97 15:18

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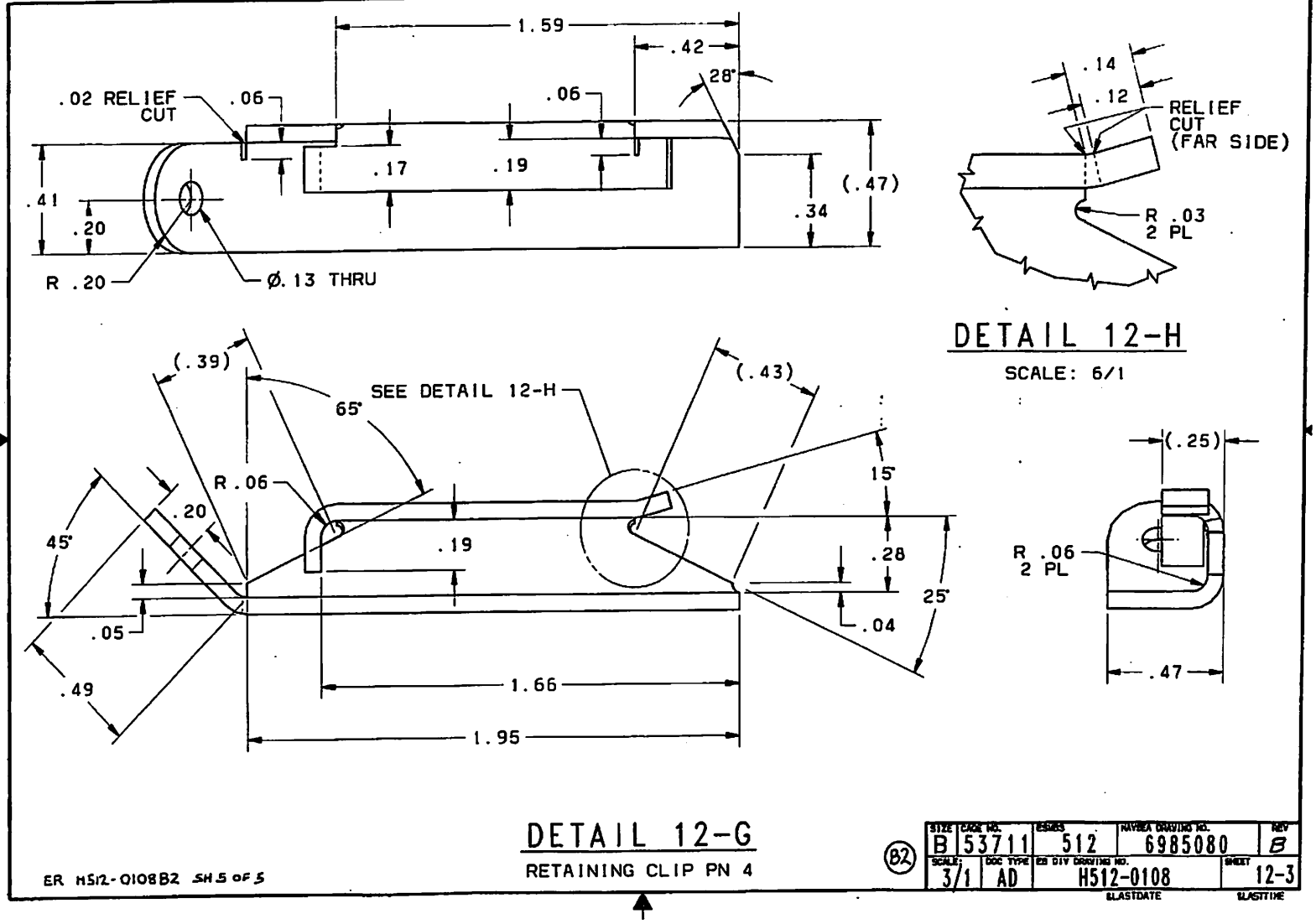

DETAIL 12-H

SCALE: 6/1

DETAIL 12-G

RETAINING CLIP PN 4

ER H512-0108B2 SH 5 OF 5

SIZE	CAGE NO.	ISSUED	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: 3/1	DOC TYPE AD	EB DIV DRAWING NO. H512-0108	SHEET 12-3	
		LASTDATE	LASTTIME	

(82)

FRAME 1 NOVEMBER 5, 1999 07.02.27

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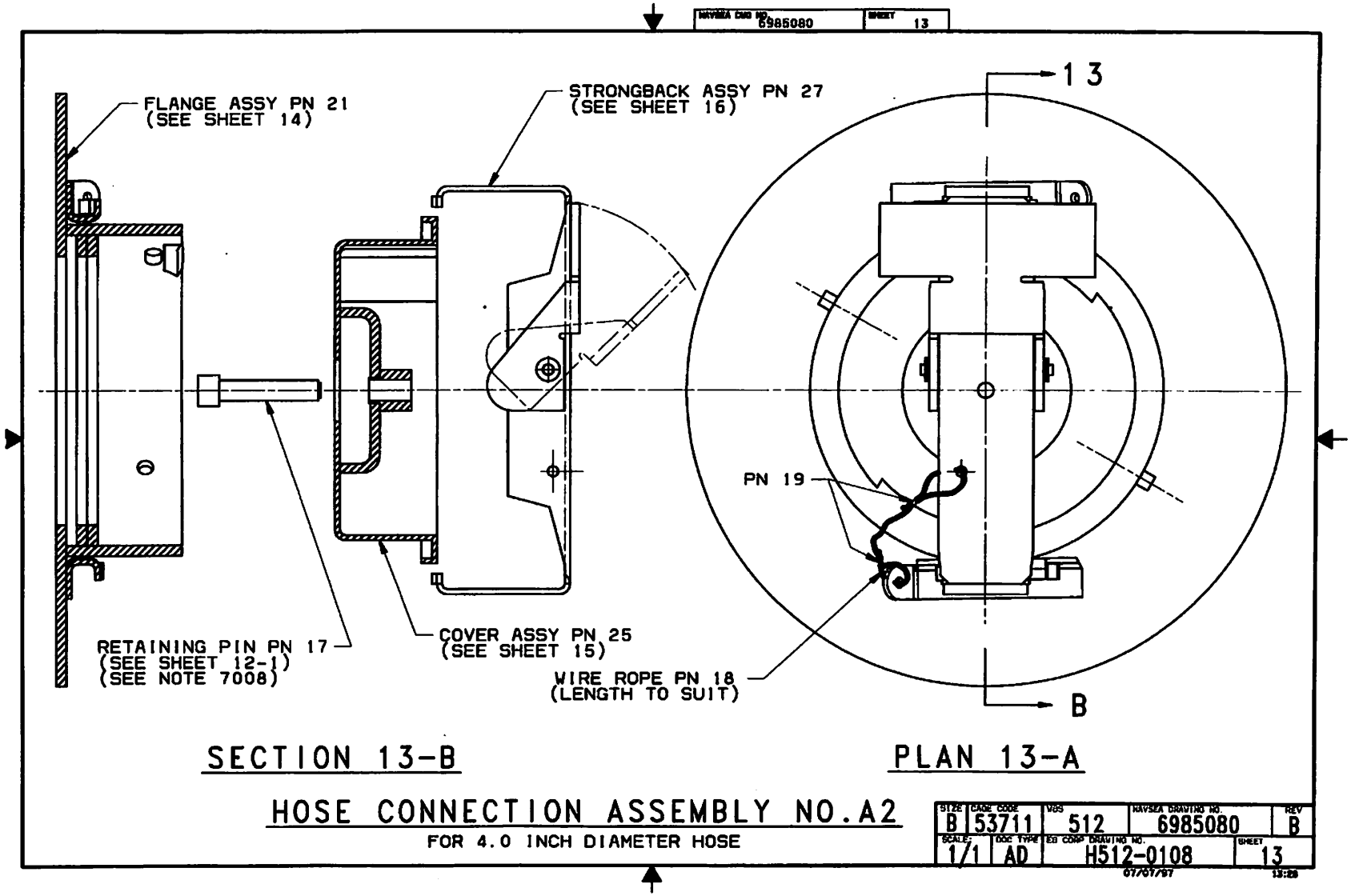

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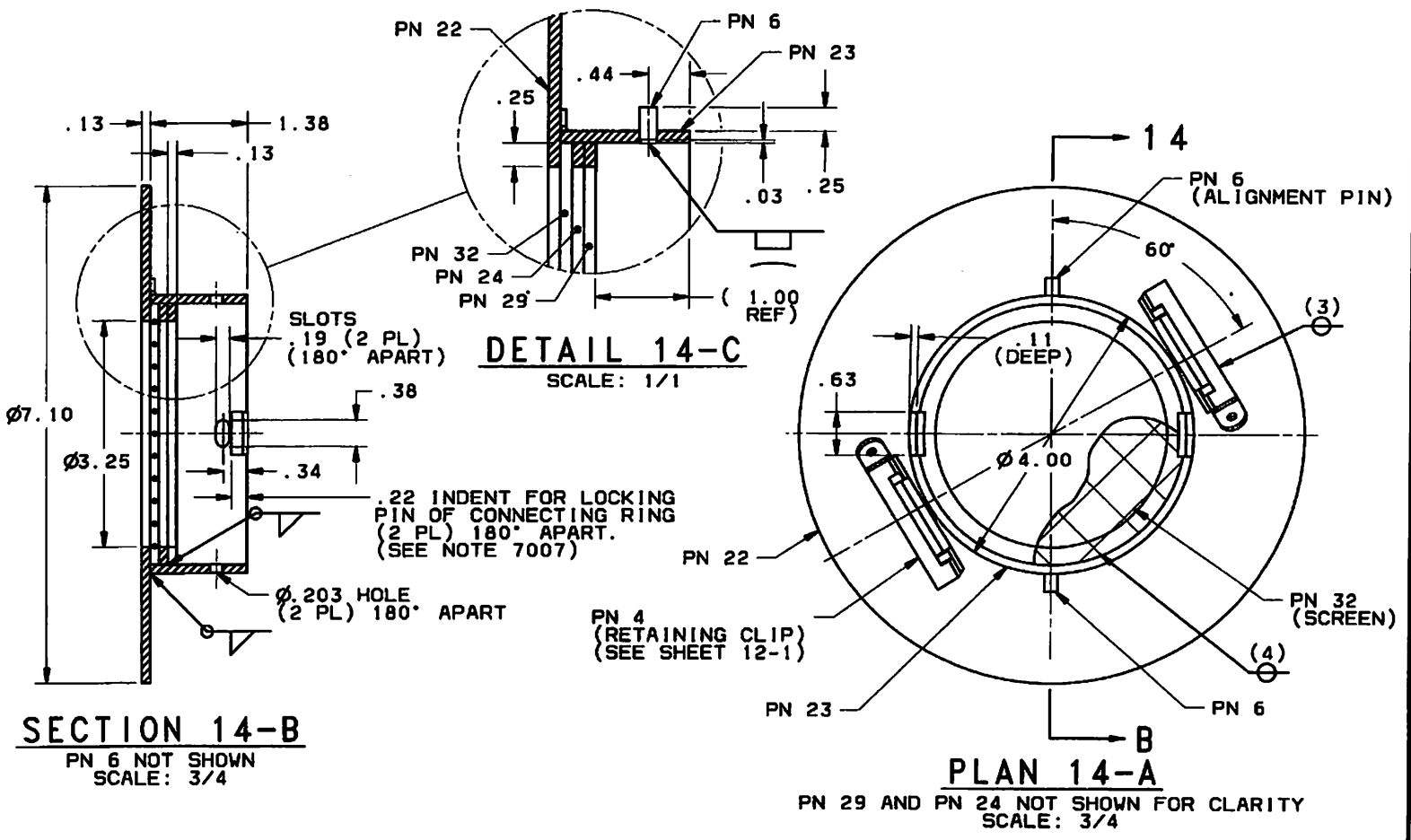

DETAIL 14-C
SCALE: 1/1

SECTION 14-B
PN 6 NOT SHOWN
SCALE: 3/4

PLAN 14-A
PN 29 AND PN 24 NOT SHOWN FOR CLARITY
SCALE: 3/4

ASSEMBLY A2-FLANGE
FLANGE ASSY PN 21

SIZE	CAGE CODE	VBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE: AS NOTED	DOC TYPE AD	EB CORP DRAWING NO. H512-0108		SHEET 14

07/07/97 13:18

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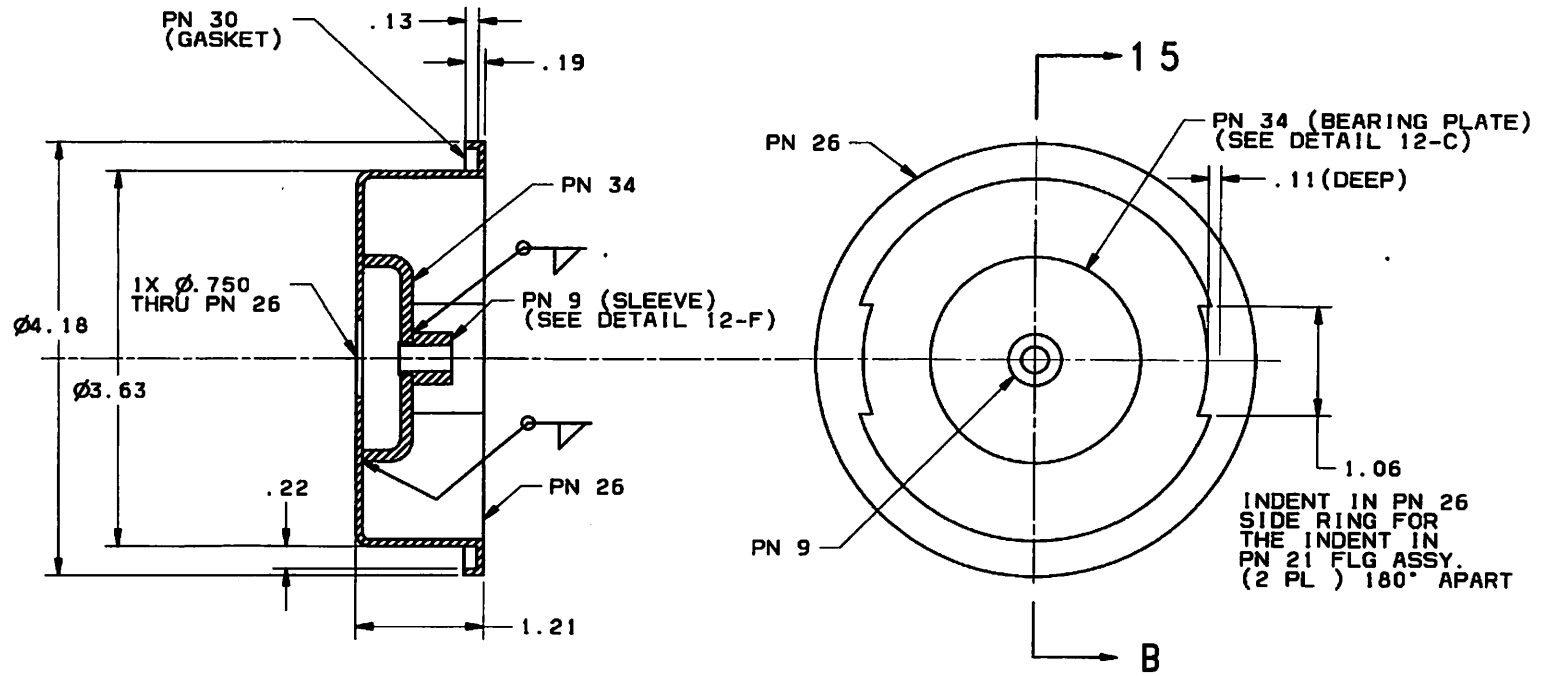

SECTION 15-B

PLAN 15-A

ASSEMBLY A2-COVER

COVER ASSY PN 25

SIZE	CAGE CODE	VES	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE:	DOC TYPE	EB CORP DRAWING NO.		SHEET
1/1	AD	H512-0108		15

07/07/97 13:30

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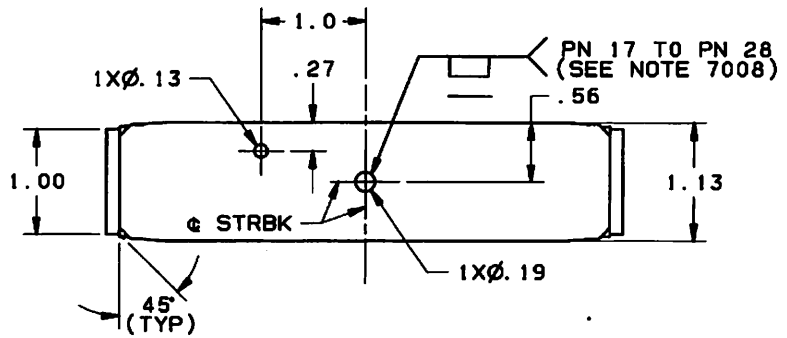
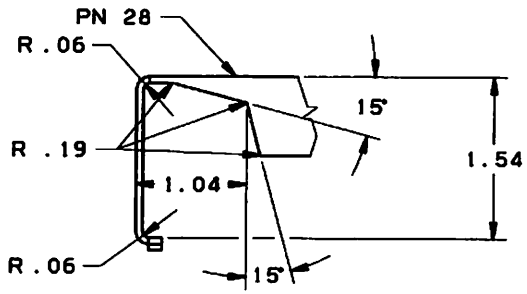
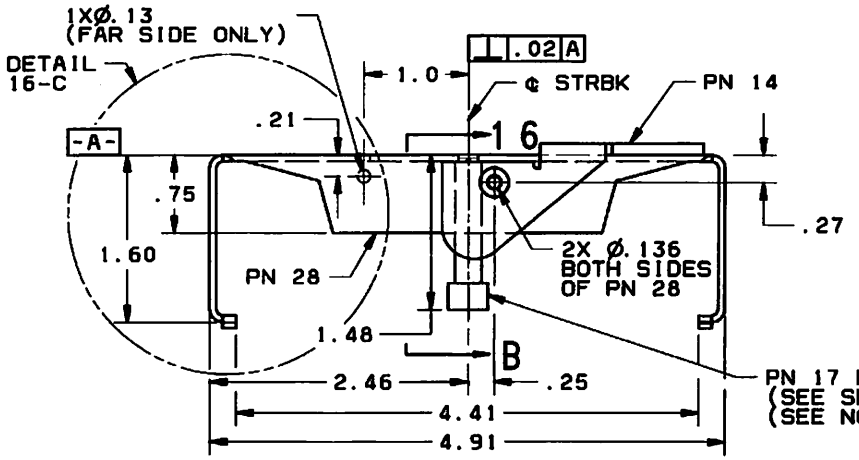


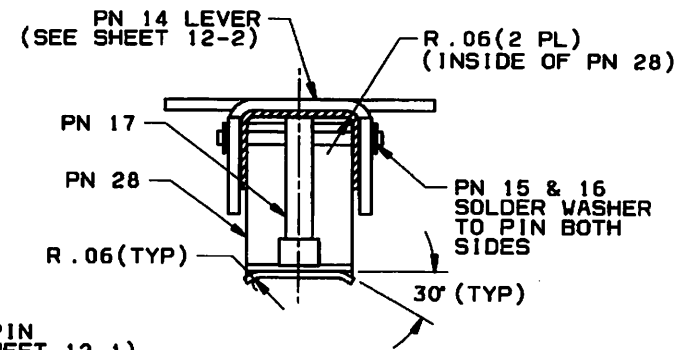


DETAIL 16-C



DETAIL 16-A

TOP VIEW SHOWN WITH PN'S 14 THRU 19 REMOVED



DETAIL 16-B

ASSEMBLY A2-STRONGBACK

STRONGBACK ASSY PN 27

SIZE	CAGE CODE	USS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
SCALE	CCC TYPE	EB CORP DRAWING NO.		SHEET
1/1	AD	H512-0108		16

07/01/97 14:17

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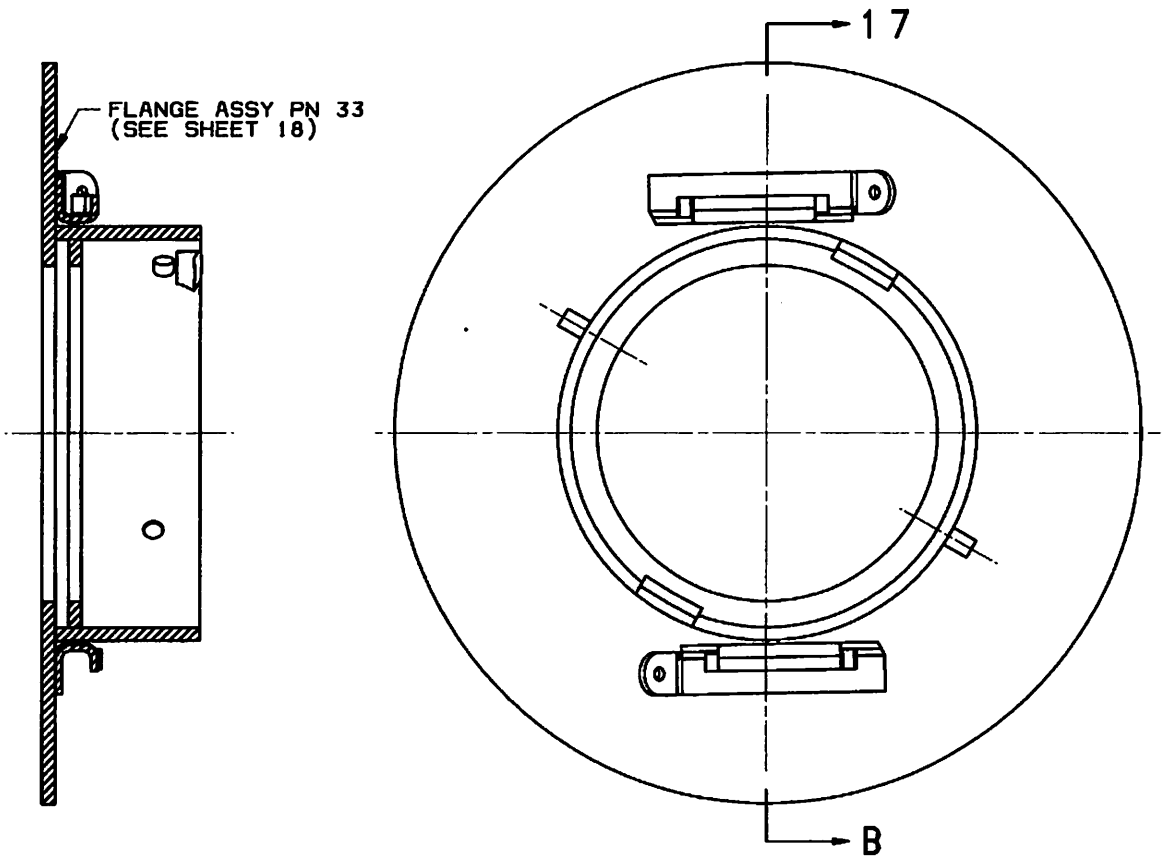

SECTION 17-B

PLAN 17-A

HOSE CONNECTION ASSEMBLY NO.A3

FOR 4.0 INCH DIAMETER HOSE

SIZE	CAGE CODE	VBS	NAVSEA DRAWING NO.	REV
B	53711	512	6985080	B
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07/07/97 13:52

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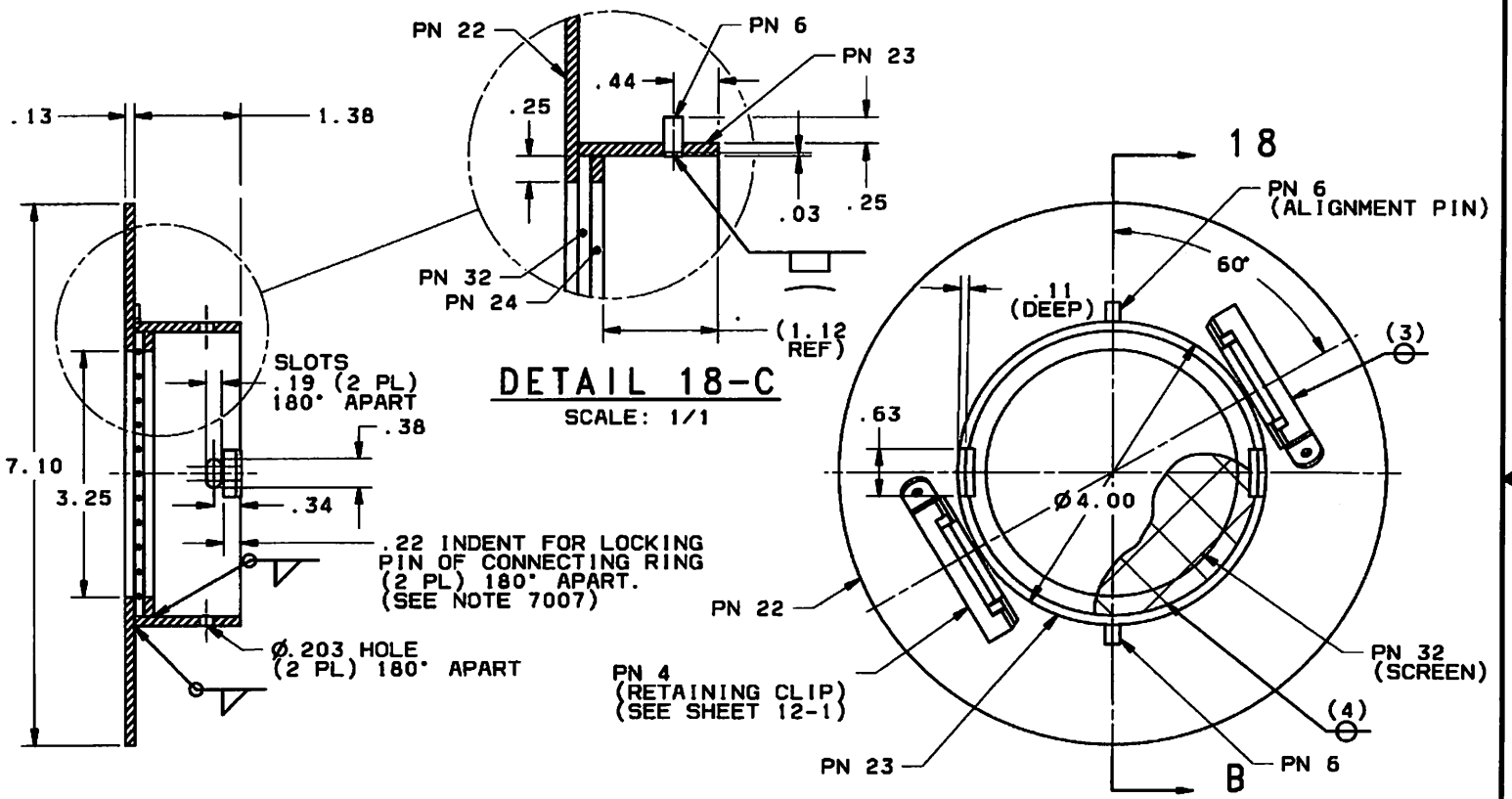

DETAIL 18-C
SCALE: 1/1

SECTION 18-B
PN 6 NOT SHOWN
SCALE: 3/4

PLAN 18-A
PN 24 NOT SHOWN FOR CLARITY
SCALE: 3/4

ASSEMBLY A3-FLANGE
FLANGE ASSY PN 33

SIZE	CAGE CODE	VSS	NAVSEA DRAWING NO.	REV
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SCALE: AS NOTED	DOC TYPE AD	EB CORP DRAWING NO. H512-0108	SHEET 18	

07/07/97 13:00