NOTES:

1. INTERPRET DRAWING PER ASME Y14.100.
2. FOR ELECTRICAL SCHEMATIC DIAGRAM, SEE 98-19524. FOR ELECTRICAL WIRING DIAGRAM, SEE 98-19525.
3. BEFORE INSTALLING FIND NO. 23 REMOVE UPPER MOUNTING BRACKET AND HARDWARE, AND DISCARD.
4. RIVETING SHALL BE IN ACCORDANCE WITH 13217E1061, CLASS 3, PREFORMED HEAD NEAR SIDE.
5. VENDOR ITEM-SEE VENDOR ITEM/SOURCE CONTROL DRAWING.
6. AFTER INSTALLING RAIN DEFLECTOR LOUVER, FIND NO. 125, TO AIR OUTLET PANEL, LEFT, FIND NO. 7, APPLY SEALING COMPOUND, FIND NO. 87, ALONG FULL LENGTH OF UPPER LOUVER WHERE UPPER EDGE MATES WITH PANEL.
7.
8. APPLY A THIN CONTINUOUS BEAD OF LOCTITE 565 SEALANT TO THREADS. MAINTAIN END OF FITTINGS ARE FREE OF SEALANT AND ENSURE MATERIAL DOES NOT INVADE LINES.
9. IDENTIFY IN ACCORDANCE WITH MIL-STD-130, METHOD OPTIONAL.
10. RIVETING SHALL BE IN ACCORDANCE WITH 13217E1061, CLASS 3, PREFORMED HEAD FAR SIDE.
11. WHEN INSTALLING ENGINE WIRING HARNESS, FIND NO. 102, ENSURE THERE IS CLEARANCE BETWEEN WIRE P14 AND DRIP SHIELD, FIND NO. 99, WHEN MAIN ACCESS COVER, FIND NO. 10, IS FULLY OPEN AND RELEASED FROM BOTH SLIDE EXTENDERS, FIND NO. 23.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	K	SERVICE SIGN OFF	00-08-09	MTP
	L	SEE ECP 01CE610300	02-05-13	DEP
	M	SEE ECP 01CE613300	02-05-13	DEP
	N	SEE ECP NO. 03CE627600	03-10-20	MTP
	P	SEE ECP NO. 02CE623800	03-11-25	WHM
	R	SEE ECP NO. 04HE003800	04-06-17	WHM
	T	SEE ECP NO. 09CE001900	08-11-25	WHM
	U	SEE ECP NO. 09HE002100	08-11-25	WHM
	V	SEE ECP NO. 12CE001900	12-02-10	MC
	W	SEE ECP NO. 13CE004000	13-08-19	PBS
	Y	REDRAWN SEE ECP NO. 15CE000300	14-12-01	PBS
	AA	SEE ECP NO. 16HE000700	16-01-13	PBS
	AB	SEE ECP NO. 18CE000300	18-01-25	NPJ
	AC	SEE ECP NO. 18CE001600	19-01-24	NPJ
	AD	SEE ECP NO. 20HE003400	22-08-03	SDE
	AE	SEE ECP NO. 21HE001000	22-10-18	SDE
	AF	SEE ECP NO. 23HE000500	23-02-10	SDE

PARTS LIST CONTINUED ON SHEET 2

FIND NO.	CAGE CODE	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL
40		98-19744-03	1	FITTING, BEADED TUBE (7/16-20 X .312 ID HOSE)		NOTE 8
39		88-20579-3	1	HOSE, NON METALLIC (.250 ID) 40.00 LG		NOTE 5
38		88-21114-2	2	FITTING, MALE PIPE TO BARB, 90°		NOTE 5,8
37		88-20579-4	1	HOSE, NON METALLIC (.312 ID) 15.70 LG		NOTE 5
36		88-22765	1	FITTING, BARB (1/2-20 X .312 ID HOSE)		NOTE 5,8
35		88-22755	2	STRAINER, AUXILIARY, FUEL		NOTE 5,8
34		98-19749-02	1	PUMP ASSY, FUEL		
34		00-24002-2	SUB	PUMP, FUEL		
33		69-539-2	1	CAP, TUBE		
32		5-5-070701C	1	ELBOW, BULKHEAD, 90° 1/2-20 37° FLARE	SAE J514	NOTE 8
31		98-19544	1	COLLAR, FUEL TANK		
30		98-19516	1	CAP, FUEL TANK		NOTE 5
29		98-19515	1	STRAINER, FUEL		NOTE 5
28		98-19535	1	FILTER, FUEL		NOTE 5
27		98-19598	1	BRACKET, FUEL FILTER		
26		98-19577	2	KEEPER, PLATE, MODIFIED		NOTE 5
25		98-19534-01	2	LATCH, FLAT CAM AND PLATE		NOTE 5
24		98-19621	2	SPACER, DOOR SUPPORT		
23		98-19559	2	SLIDE EXTENDER, SUPORT		NOTE 3,5
22		98-19543	2	FINGER GUARD, FAN		NOTE 5
21		98-19637	1	SWITCH, TEMPERATURE, 110° F		NOTE 5
20		98-19636	1	SWITCH, TEMPERATURE, 85° F		NOTE 5
19		98-19512-01	2	FAN (115 V AC)		NOTE 5,7
18		98-19618	1	ANGLE, CONTROL BOX BRACE		
17		98-19549	1	BRACKET, INVERTER SUPPORT		
16		98-19712	1	GASKET, EXHAUST		
15		98-19604-01	1	INVERTER/CONVERTER, POWER, 60 HZ		NOTE 5
14		98-19581-02	1	BRACKET, ANGLE, (FRONT BRACE)		
13		98-19581-01	1	BRACKET, ANGLE, (REAR BRACE)		
12		98-19575	2	HINGE, MAIN ACCESS COVER		
11		98-19561	1	PANEL, AIR OUTLET, RIGHT		
10		98-19560	1	COVER, MAIN ACCESS		
9		98-19574	1	DEFLECTOR PANEL, EXHAUST OUTLET		
8		98-19608	1	POCKET, FUEL FILL		
7		98-19573	1	PANEL, AIR OUTLET, LEFT		
6		98-19570	1	PANEL, LEFT SIDE		
5		98-19564	1	PANEL, AIR INLET		
4		98-19565	1	COVER, AIR INLET		
3		98-19772	1	PANEL, RIGHT SIDE		
2		98-19507	1	CONTROL BOX ASSY, 60 HZ		
1		98-19505	1	ENGINE-GEN-BASE ASSY, 3 KW		

PARTS LIST

DOD RELEASE		
	DESIGN	PRODUCTION
AIR FORCE		
ARMY		M. PAYNE
NAVY		
MARINE CORPS		
DRAWING REPOSITORY: U.S. ARMY COMMUNICATION-ELECTRONICS RESEARCH, DEVELOPMENT & ENGINEERING CENTER, ABERDEEN PROVING GROUND, MD. 21005		

98-831	98-831
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ANGLES ±
3 PLACE DECIMALS ±
2 PLACE DECIMALS ±
FRACTIONS ±

MATERIAL: SEE PARTS LIST

CONTRACT NO. DAAK01-96-C-0085

DATE 98-03-06

PREPARED	HEF	98-09-18
CHECKED	MAF	98-09-21
ENGINEER	MAF	98-09-21

DEPT OF DEFENSE PROJECT MANAGER EXPEDITIONARY ENERGY & SUSTAINMENT SYSTEMS: DONALD E. PETERSON

DOD PROJECT MANAGER, EXPEDITIONARY ENERGY & SUSTAINMENT SYSTEMS, WASHINGTON, D.C.

GENERATOR SET ASSY, 3 KW, 60 HZ

SIZE	CAGE CODE	DRAWING NO.
D	30554	98-19503

SCALE 1/4 | REV LETTER AF | SHEET 1 OF 8

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FIND NO.	CAGE CODE	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL
147		98-19769	1	CLAMP, HOSE		NOTE 5
146		98-19700	AR	SEALANT, THREAD, PIPE		NOTE 8
145		SEMS DIN7985 M4X10-A2-70-H	2	SEM MACH, SCREW, PAN HD, M4X10MM, EXT. TOOTH LW	ISO 7045 DIN7985	NOTE 5
144		98-19645-02	1	GASKET, STRIP (1.00 X .062) 4.10 LG		NOTE 5
143		98-19645-02	3	GASKET, STRIP (1.00 X .062) 8.40 LG		NOTE 5
142		98-19645-02	2	GASKET, STRIP (1.00 X .062) 7.70 LG		NOTE 5
141		98-19645-02	6	GASKET, STRIP (1.00 X .062) 2.50 LG		NOTE 5
140		SF SIZE 1	1	CHAIN, WELDLESS, STEEL, ZINC PLATED, 6 IN LG	ASTM A466	STEEL
139		MS87006-3	1	S HOOK	MS87006	
138		98-19735	1	BRACKET, DOCUMENT HOLDER		
137		88-20544-5	1	CLAMP, LOOP, CUSHIONED		NOTE 5
136		MS21333-68	4	CLAMP, LOOP, CUSHIONED	NASM21333	
135		98-19739	1	PLATE, ACCESS, BELLOWS		
134		98-19738	1	PLATE, MOUNTING, BELLOWS		
133		98-19737	1	FLANGE, EXHAUST, ASSY		
132		MS21334-31	2	CLAMP, LOOP, CUSHIONED, DOUBLE TUBE	NASM21334	
131						
130		88-20544-6	1	CLAMP, LOOP, CUSHIONED		NOTE 5
129		88-21674-1	4	NUT, CAGE (.190-32)		NOTE 5
128						
127		95-8125-7	2	NUT, SELF-LOCKING, HEXAGON (.250-28)		NOTE 5
126		MS35207-280	2	SCREW, PAN HD (.250-28 X .625 LG)	NASM35207	
125		98-19584	2	LOUVER, RAIN DEFLECTOR		
124		98-19736-03	1	HOSE, FLEXIBLE BRAIDED LEAK-OFF (260.0 MM LG)		NOTE 5
123		98-19736-02	1	HOSE, FLEXIBLE BRAIDED LEAK-OFF (90.0 MM LG)		NOTE 5
122		88-20579-4	1	HOSE, NON METALIC (.312 ID) 30.00 LG		NOTE 3,5
121		98-19546	1	STRAP, AUXILIARY FUEL HOSE		NOTE 5
120		88-20260-34	2	SCREW, HEX WASHERHEAD (.250-20 X 1.00 LG)		
119		88-20579-4	1	HOSE, NON METALLIC (.312 ID) 10.00 LG		NOTE 5
118						
117		98-19734	2	LINK, GROUND, FAN		
116		98-19645-03	4	GASKET, STRIP (.75 X .250) 5.10 LG		NOTE 5
115		98-19645-03	1	GASKET, STRIP (.75 X .250) 37.50 LG		NOTE 5
114		98-19771	1	INSULATION STRIP, BATTERY PARKING POST		
113		88-20033-5A	4	WASHER, FLAT		
112		69-662-18	4	SCR AND CAPTIVE WSHR ASSY (.138-32 X .38 LG)		NOTE 5
111		98-19709-02	1	LABEL, CAUTION		
110		98-19645-03	2	GASKET, STRIP (.75 X .250) 20.10 LG		NOTE 5
109		88-20556-4	51	WASHER, LOCK-SPRING, HELICAL		
108		98-19709-01	1	LABEL, CAUTION		
107						
106		98-19725-02	1	COVER, PROTECTIVE, TERMINAL BLOCK		
105		98-19725-01	1	COVER, PROTECTIVE, TERMINAL BLOCK		
104		88-22202	2	CONTACTOR, MAGNETIC, DC, 50 AMPS		NOTE 5
103		98-19757	1	BRACKET, AUX FUEL HOSE		
102		98-19782	1	WIRING HARNESS, ENGINE, 60 HZ		NOTE 11
101						
100		98-19548	1	HOLDER, DOCUMENT		
99		98-19758	1	SHIELD, DRIP		

PARTS LIST

FIND NO.	CAGE CODE	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL
98		98-19727	4	SPACER, THREADED (.164-32 X 1.00 LG)		
97		98-19655	1	INSULATION, HOUSING, AIR INLET, LOWER		
96		98-19623	1	INSULATION, HOUSING, AIR OUTLET, LEFT SIDE		
95		98-19605	1	INSULATION, HOUSING, AIR OUTLET, RIGHT SIDE		
94		98-19603	1	INSULATION, HOUSING, MAIN ACCESS COVER		
93		98-19552	1	INSULATION, HOUSING, AIR INLET		
92		88-20274-4	4	TERMINAL, SPADE		NOTE 5
91		98-19706	2	TRANSIENT VOLTAGE SUPPRESSOR, DC		NOTE 5
90		88-20260-22	69	SCREW, HEX WASHERHEAD, (.190-32 X .625 LG)		
89		98-19714-02	1	PLUG AND CORD ASSY		
88		98-19736-01	1	HOSE, FLEXIBLE BRAIDED LEAK-OFF (1020.0 MM)		NOTE 5
87		88-20571-2	AR	SEALING COMPOUND		NOTE 5
86		88-20609-2	2	ADPTR, STR, PIPE TO HOSE (.125 ID HOSE, 1/8 NPT)		NOTE 5,8
85		98-19718-02	1	POST, BATTERY CABLE (+)		
84		98-19718-01	1	POST, BATTERY CABLE (-)		
83		98-19714-01	1	PLUG AND CORD ASSY		
82		A733XS-10CFG	1	NIPPLE, .125 NPT X 2.50 LG	ASTM A733	NOTE 8
81		98-19646	6	CLAMP, HOSE		NOTE 5
80	81349	M24243/6-A402H	2	RIVET, BLIND (.125 DIA X .063 - .125 GRIP)	MIL-R-24243/6	NOTE 10
79		5-070118C	1	LOCKNUT (1/2-20)	SAE J514	
78		MS14226-64YC816	1	WASHER, FLAT, .525 ID X .875 OD	MS14226	
77		GROUP 1, TYPE M	14	CLAMP, HOSE, LOW PRESSURE, SIZE 04	SAE J1508	
76		88-20561-5	2	CLAMP, HOSE, LOW PRESSURE		
75		88-20260-13	8	SCREW, HEX WASHERHEAD (.164-32 X .75 LG)		
74		88-20556-3	22	WASHER, LOCK-SPRING, HELICAL		
73		88-20556-1	4	WASHER, LOCK-SPRING, HELICAL		
72		88-20033-3A	4	WASHER, FLAT		
71		88-22793-2	4	SCREW, PAN HEAD (.112-40 X .375 LG)		
70		98-19576-02	2	GASKET, HINGE, MAIN ACCESS COVER (2 HOLE)		
69		98-19576-01	2	GASKET, HINGE, MAIN ACCESS COVER (3 HOLE)		
68		88-21674-2	9	NUT, CAGE (.190-32)		NOTE 5
67		88-20556-5	10	WASHER, LOCK-SPRING, HELICAL		
66		88-20260-31	11	SCREW, HEX WASHERHEAD (.250-20 X .625 LG)		
65		95-8125-3	4	NUT, SELF-LOCKING, HEXAGON (.164-32)		NOTE 5
64		88-20033-8A	30	WASHER, FLAT		
63		88-20260-11	18	SCREW, HEX WASHERHEAD (.164-32 X .500 LG)		
62		88-20260-21	42	SCREW, HEX WASHERHEAD (.190-32 X .500 LG)		
61		88-20260-36	8	SCREW, HEX WASHERHEAD (.250-20 X 1.500 LG)		
60		95-8125-4	73	NUT, SELF-LOCKING, HEXAGON (.190-32)		NOTE 5
59		88-20033-11A	175	WASHER, FLAT		
58		88-20260-23	13	SCREW, HEX WASHERHEAD (.190-32 X .75 LG)		
57		95-8125-6	26	NUT, SELF-LOCKING, HEXAGON (.250-20)		
56		88-20033-20A	55	WASHER, FLAT		
55		88-20260-32	15	SCREW, HEX WASHERHEAD (.250-20 X .75 LG)		
54		4-4-070221	1	ELBOW, TUBE 90°, SWIVEL 37° FLARED	SAE J514	NOTE 8
53		88-20018-3	10	STRAP, TIEDOWN		
52		88-20579-4	1	HOSE, NON METALLIC (.312 ID) 3.00" LG		NOTE 5
51		88-22705	AR	SEAL, DOOR		NOTE 5
50		98-19732	1	TEE, 1/8 HOSE, MINIATURE BARB		NOTE 5
49		98-19701	1	SPACER, CONTROL BOX MTG.		
48		98-19579	2	BALL JOINT, SWIVEL		NOTE 5
47		88-20579-3	1	HOSE, NON METALLIC (.250 ID) 3.60 LG		NOTE 5
46		98-19708	1	FITTING, BARB (.312 ID HOSE, 1/8 NPT)		NOTE 5,8
45		88-20579-3	1	HOSE, NON METALLIC (.250 ID) 14.20 LG		NOTE 5
44		4-2-430260C	2	FITTING, 90° EL, BEADED TUBE, 1/4H, 1/8NPT	SAE J1231	NOTE 8
43		2-2-2-140438C	2	TEE 1/8 NPT, INTERNAL	SAE J514	NOTE 8
42		88-20579-3	1	HOSE, NON METALLIC (.250 ID) 12.00" LG		NOTE 5
41		98-19753-04	3	FITTING, MALE CONNECTOR (1/4H, 1/8 NPT)		NOTE 5,8

PARTS LIST

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DOD PROJECT MANAGER,
EXPEDITIONARY ENERGY & SUSTAINMENT SYSTEMS
WASHINGTON, D.C.

SIZE	CAGE CODE	DRAWING NO.
D	30554	98-19503

SCALE	REV LETTER	SHEET
1/4	AF	2

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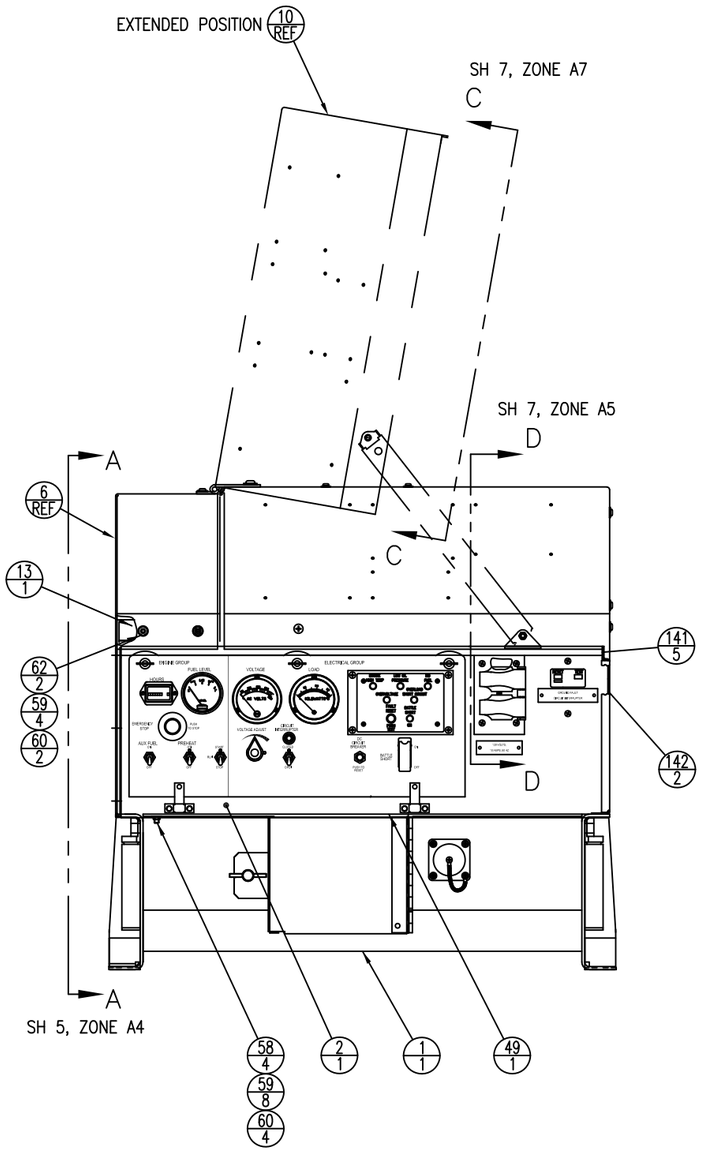

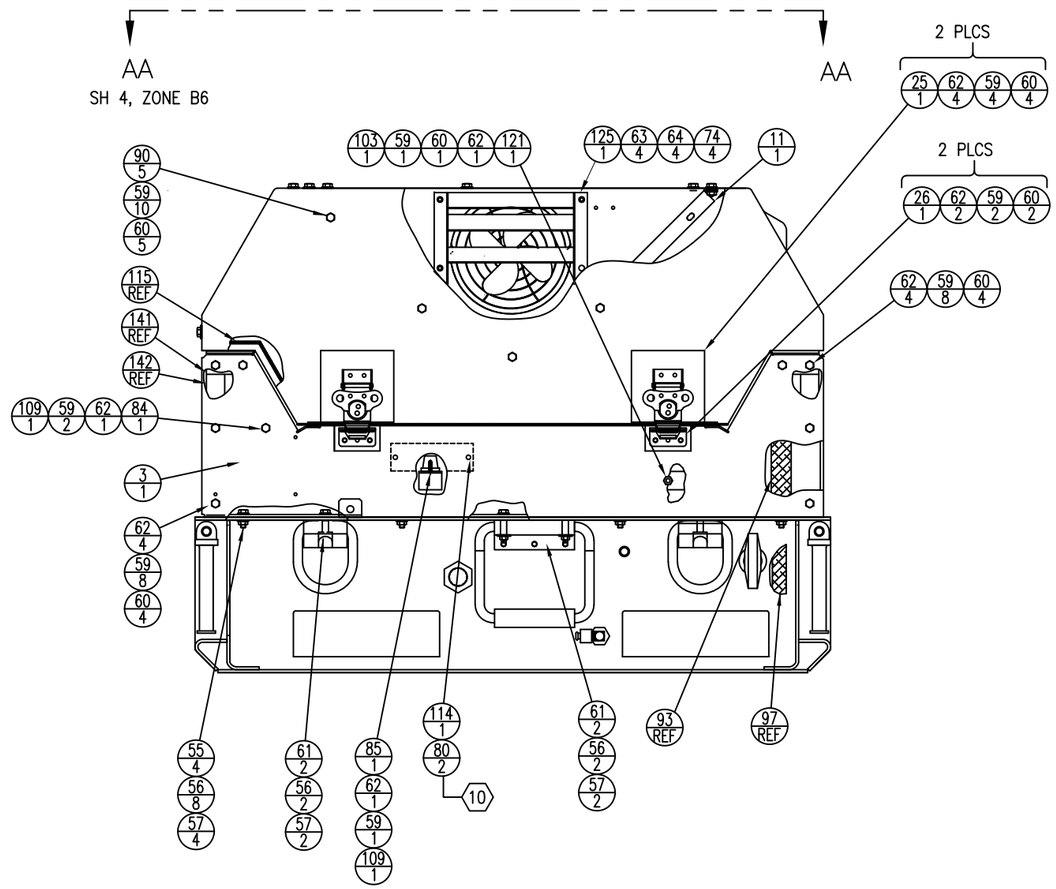

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D	30554	98–19503
SCALE 1/4	REV LETTER AF	SHEET 3

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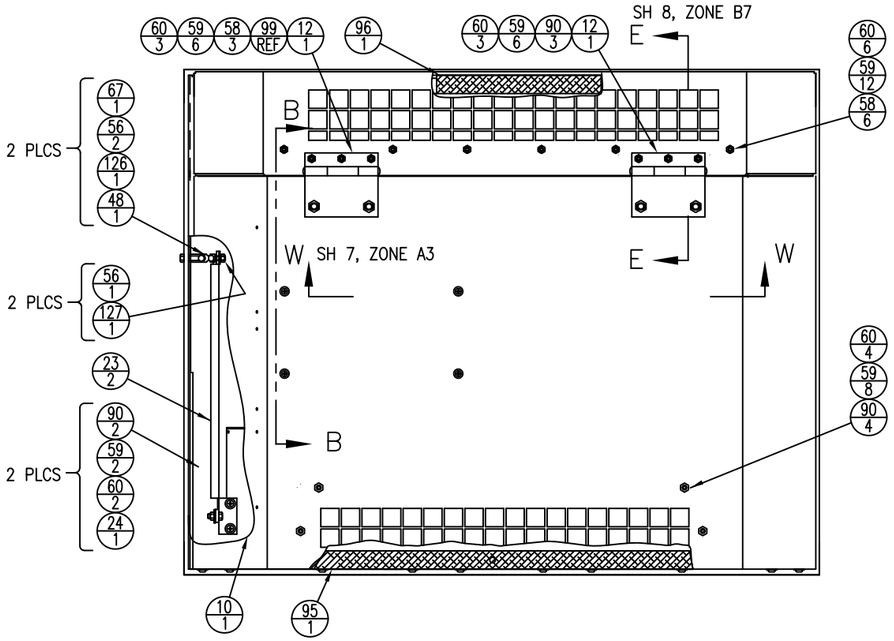
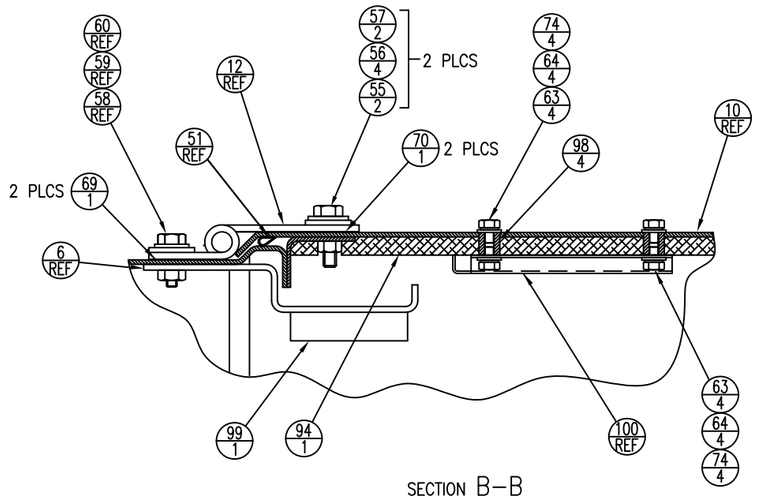


VIEW AA–AA
SH 3, ZONE C5



SECTION B–B
SCALE: NONE
ROTATED 90° CCW

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SIZE	CAGE CODE	DRAWING NO.	
D	30554	98–19503	
SCALE 1/4	REV LETTER AF	SHEET 4	

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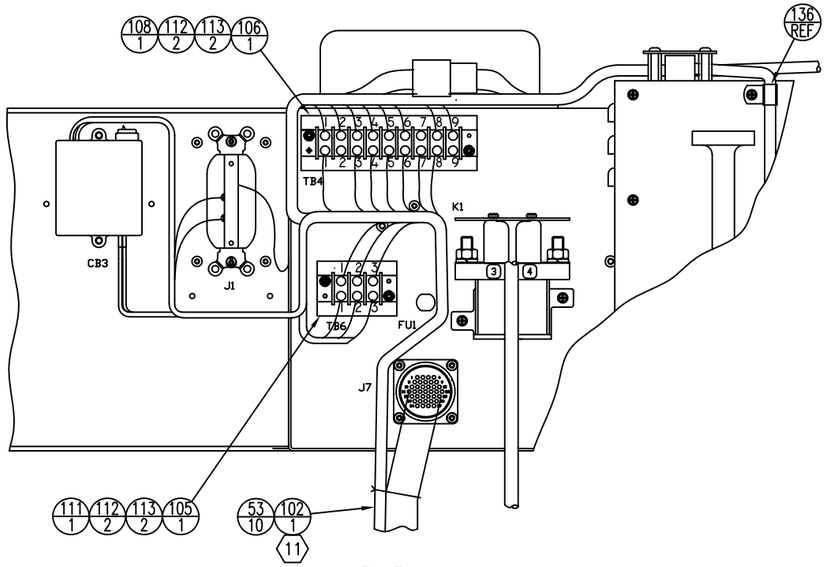
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



VIEW R–R
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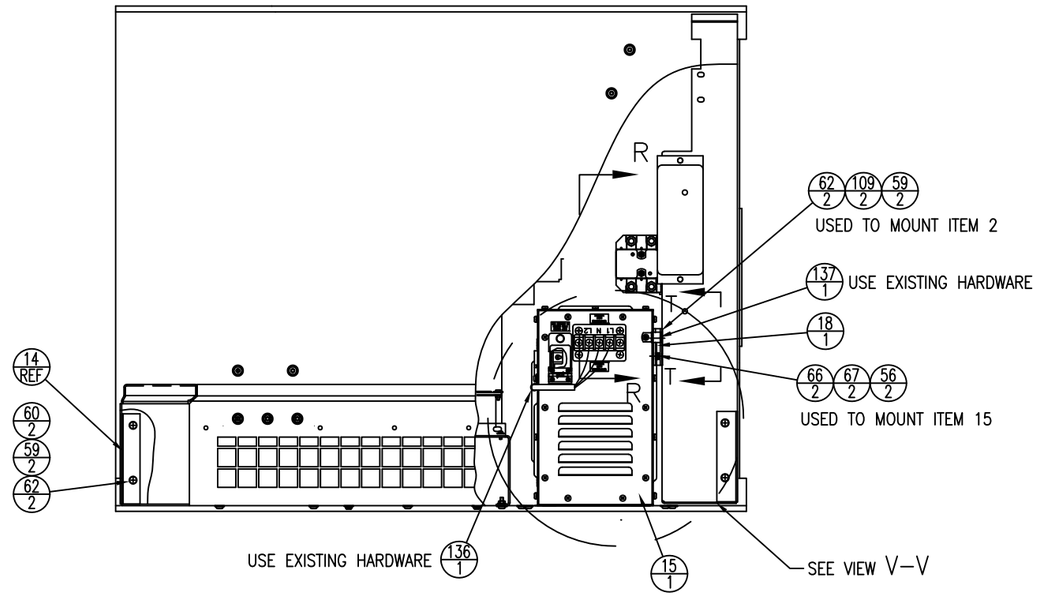
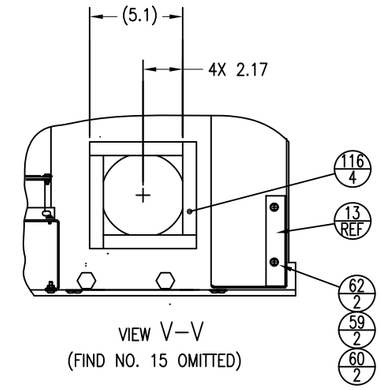
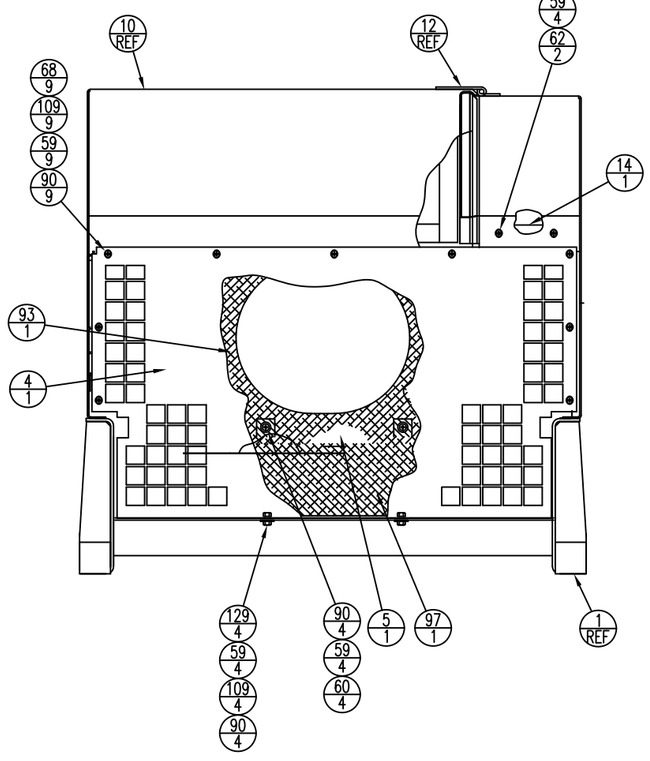
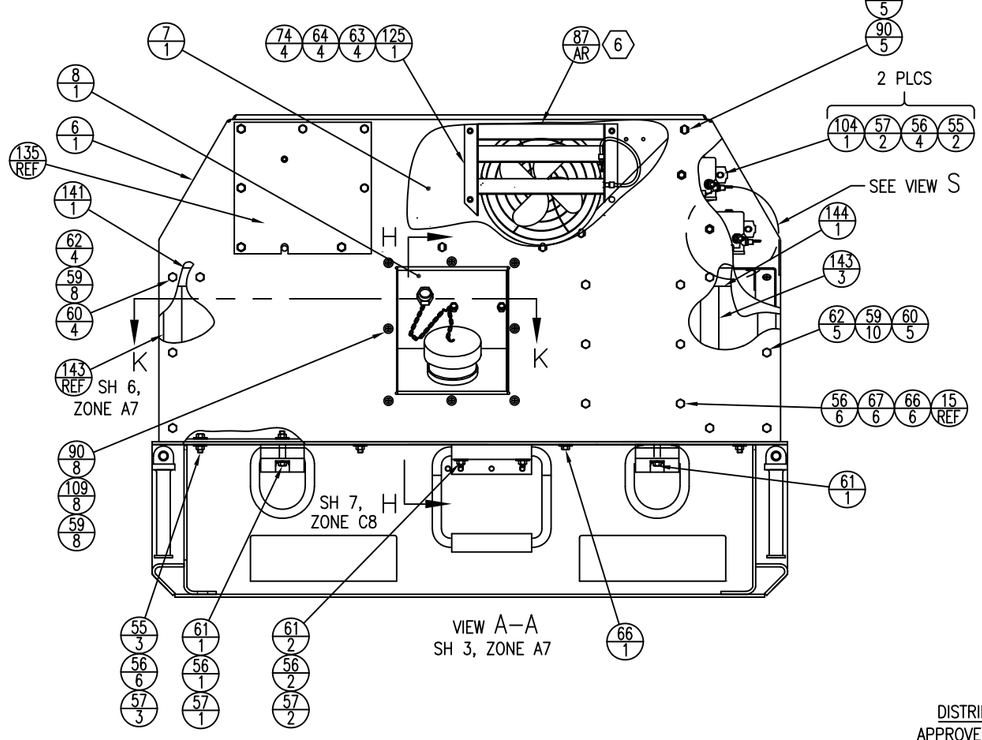


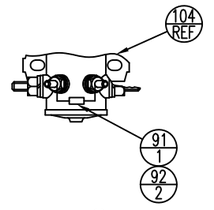


VIEW V–V
(FIND NO. 15 OMITTED)





VIEW A–A
SH 3, ZONE A7



VIEW S
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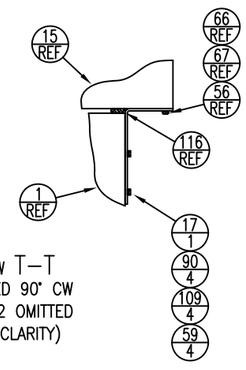
2 PLACES



VIEW T–T
ROTATED 90° CW
(ITEM 2 OMITTED
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SIZE	CAGE CODE	DRAWING NO.	
D	30554	98–19503	
SCALE 1/4	REV LETTER AF	SHEET 5	

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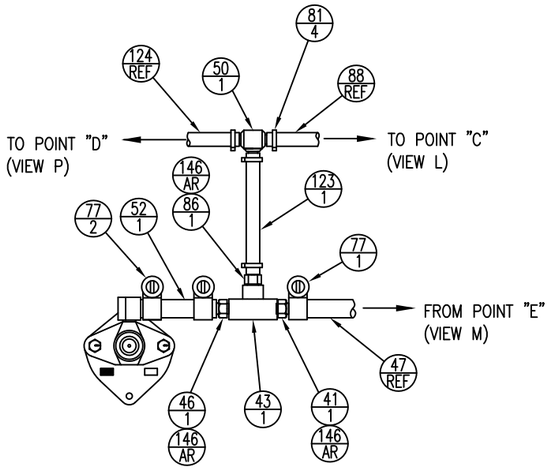
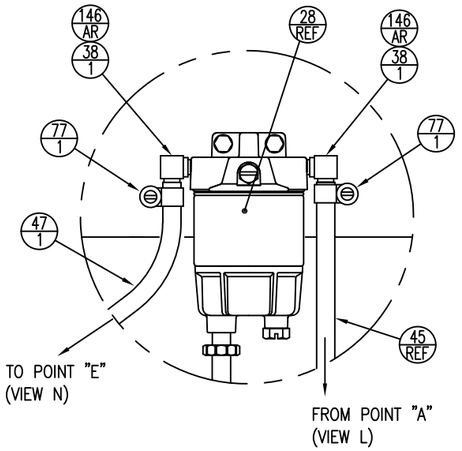
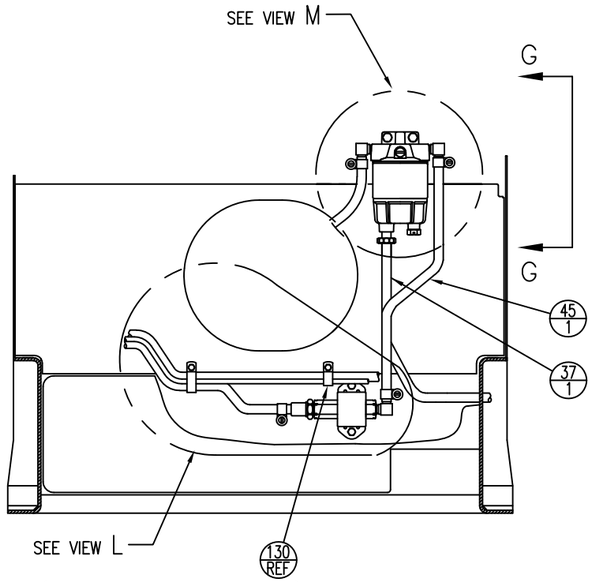
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



VIEW N
ROTATED 180°
SCALE: NONE

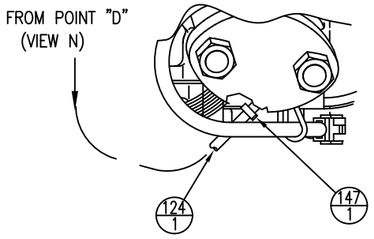


VIEW M
SCALE: NONE

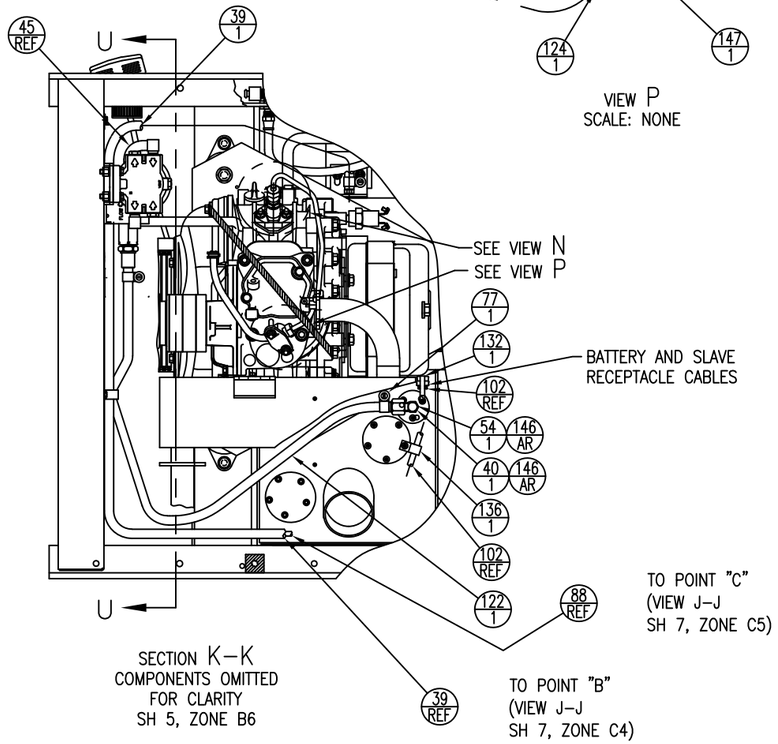


(MOUNT WITH EXISTING HARDWARE)

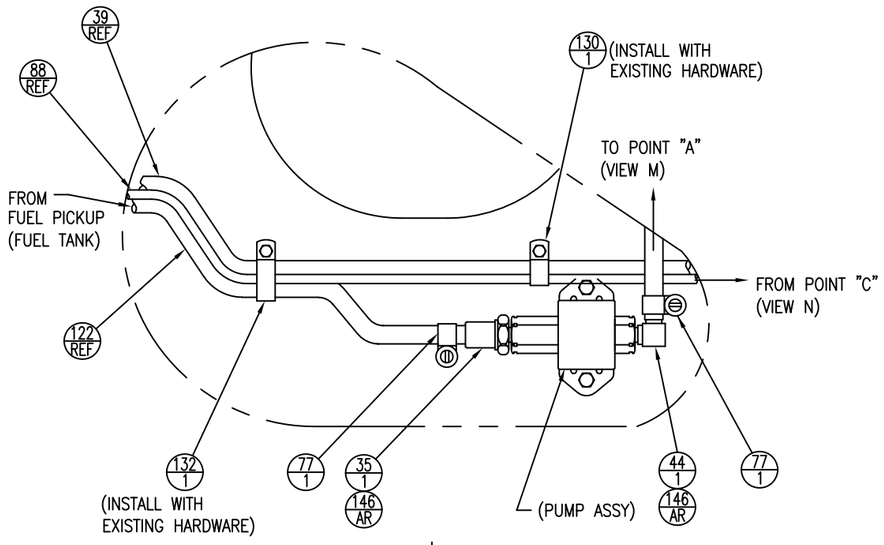
SECTION U–U
ROTATED 90° CW



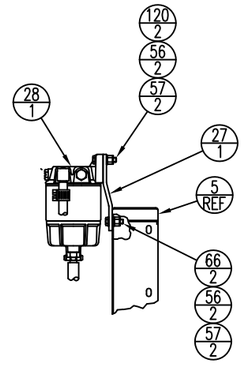
VIEW P
SCALE: NONE



SECTION K–K
COMPONENTS OMITTED FOR CLARITY
SH 5, ZONE B6



VIEW L
SCALE: NONE



VIEW G–G
ITEMS OMITTED FOR CLARITY

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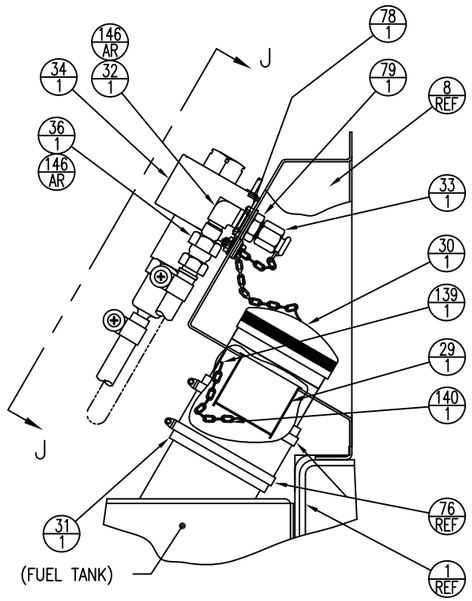
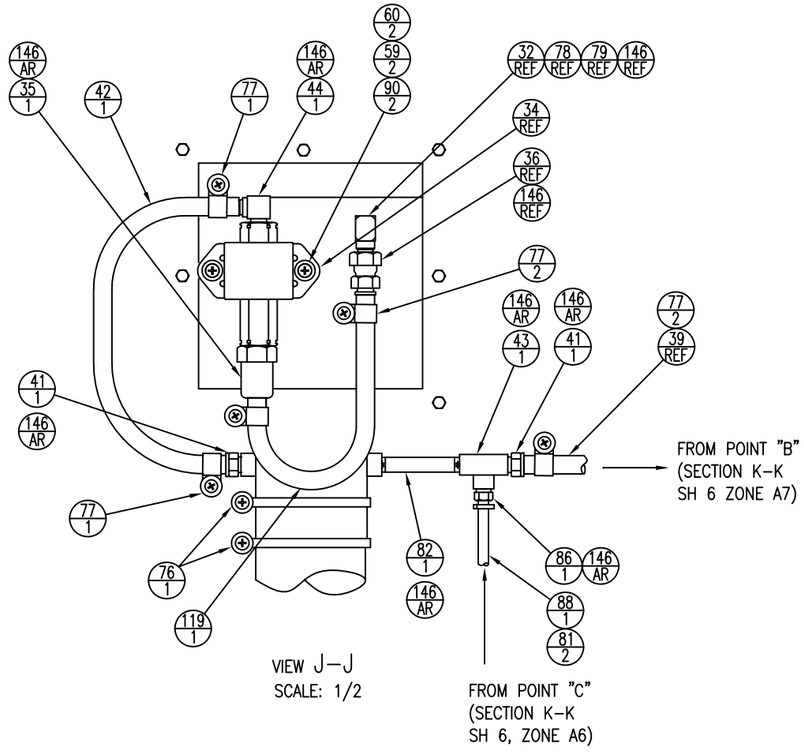
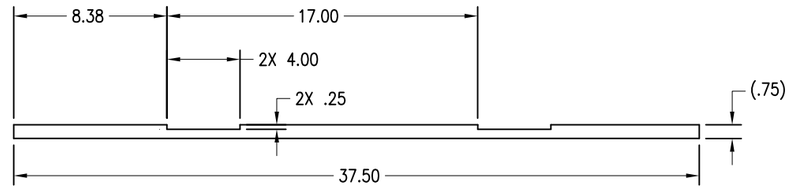


SECTION H–H
SCALE: 1/2
SH 5, ZONE B5

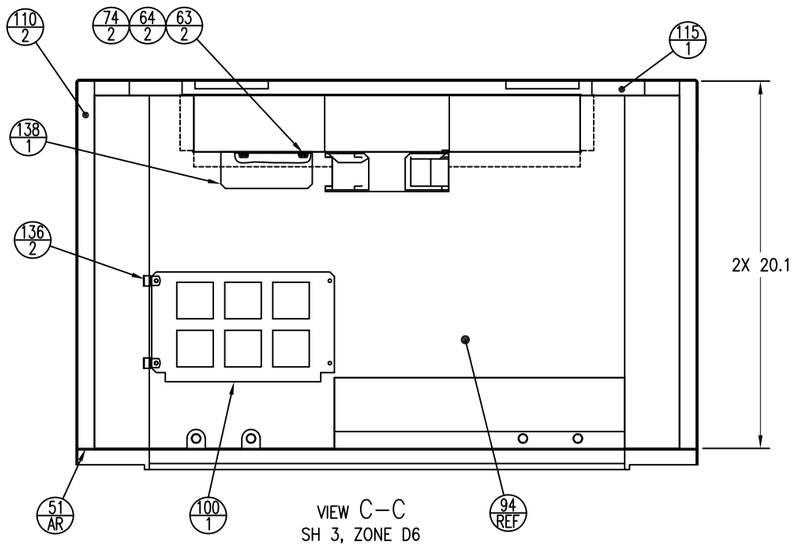


VIEW J–J
SCALE: 1/2

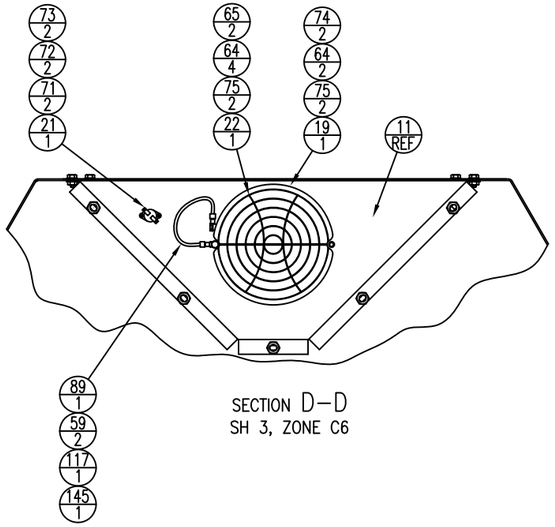
FROM POINT "C" (SECTION K–K SH 6, ZONE A6)



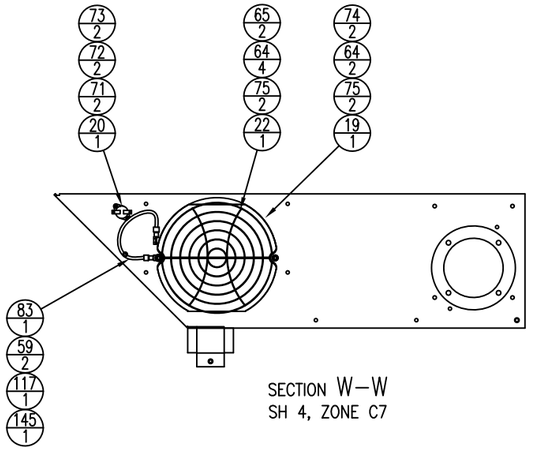
FN–115



VIEW C–C
SH 3, ZONE D6



SECTION D–D
SH 3, ZONE C6



SECTION W–W
SH 4, ZONE C7

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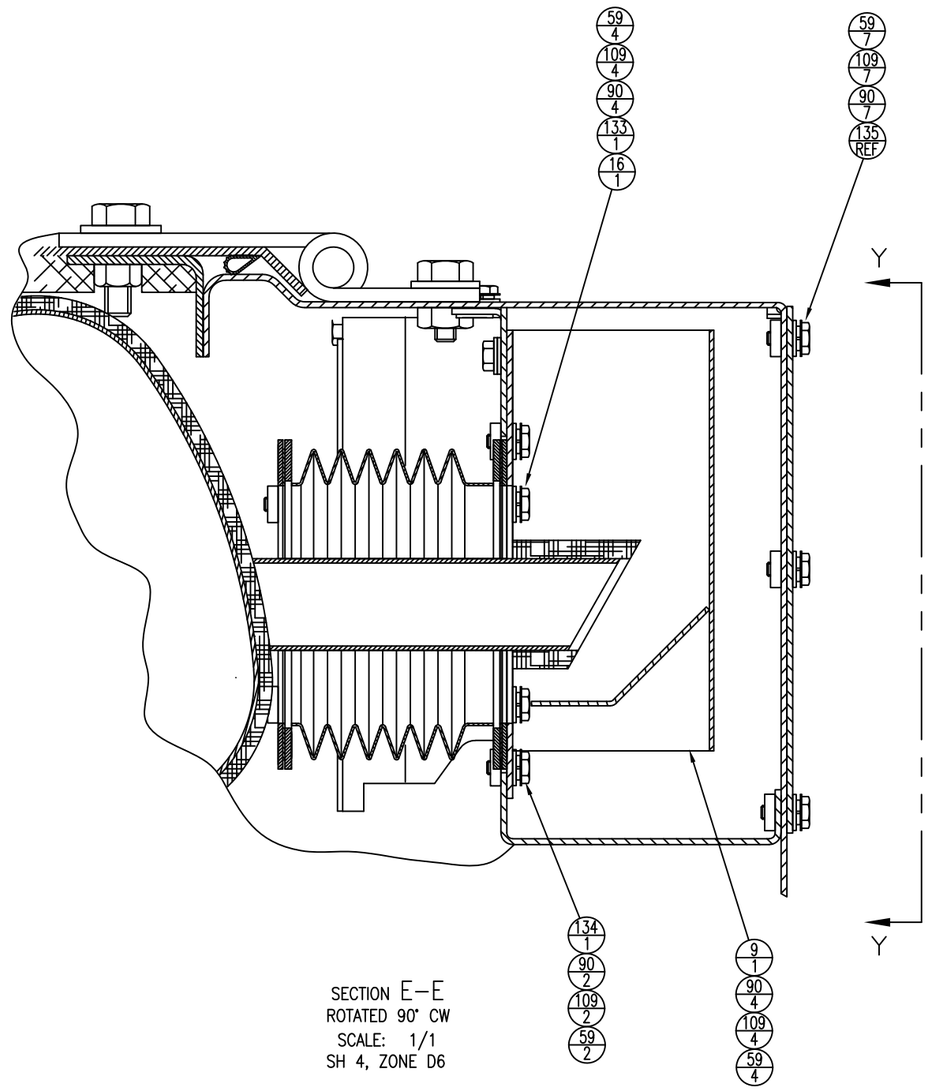
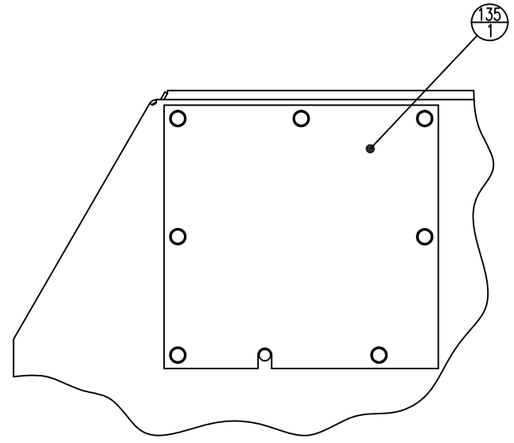


SECTION E–E
ROTATED 90° CW
SCALE: 1/1
SH 4, ZONE D6



VIEW Y–Y
SCALE: 1/2

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