REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	–	SEE ECP NO. 21HE001000	22-10-18	SDE

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100.

2. HEAT STAMP APPROPRIATE CONNECTOR IDENTIFICATION P4 OR J7 ON (STRAP, TIEDOWN) FN 14 USING BLACK CHARACTERS IN ACCORDANCE WITH MIL-M-60903. LOCATE AT APPROPRIATE ENDS.

3. ADD PART IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130 BY HEAT STAMPING, IN ACCORDANCE WITH MIL-M-60903, "98-19780" ON (STRAP, TIEDOWN) FN 19, USING BLACK CHARACTERS AND LOCATE AT APPROXIMATE CENTER.

4. HARNESS LAYOUTS SHOWN ARE SINGLE LINE SCHEMATIC DIAGRAMS NOT TO BE USED AS A CONSTRUCTION PATTERN. HARNESS SHALL BE CONSTRUCTED SO THAT WHILE INSTALLED IN THE NEXT HIGHER ASSEMBLY, IT SHALL FIT NEATLY AND MAKE THE NECESSARY CONNECTIONS.

5. MARK WIRES WITH APPROPRIATE "WIRE MARKING NO" AND "MARKING COLOR" INDICATED IN WIRE LIST TABLE, BY HEAT STAMPING, IN ACCORDANCE WITH MIL-M-60903, AT 3.00 INCH MAXIMUM INTERVALS.

6. STRAP WIRE BUNDLES WITH TIEDOWN STRAPS FN 15 OR 16 AT 3.00 MAXIMUM SPACING ALONG BRANCHES AND AT BRANCH-OFFS.

7. WIRE REF NO'S 83, 84 AND 86 ARE LOOSE, UNMARKED WIRES, TO BE INSTALLED AT NEXT ASSEMBLY.

8. TERMINAL FIND NUMBERS INDICATED AS "TIN" IN THE WIRE LIST TABLE, ARE TO HAVE THE INSULATION STRIPPED .25 INCH AND TINNED WITH SOLDER IN ACCORDANCE WITH MANUFACTURER'S COMMERCIAL PRACTICE.

9. FOR WIRE LENGTHS LESS THAN 1.00 INCH, THE TOLERANCE SHALL BE +1.00 -.00, FOR LENGTHS BETWEEN 1.00 INCH AND 5.00 INCHES, THE TOLERANCE SHALL BE +1.00 -.50, FOR LENGTHS LONGER THAN 5.00 INCHES THE TOLERANCE SHALL BE ± 1.00.

10. INSTALLED CRIMPED CONNECTIONS SHALL WITHSTAND AN AXIAL LOAD OF 8 POUNDS, SHALL HAVE CONTINUITY AND SHALL SHOW NO EVIDENCE OF DAMAGE OR ARCING WHEN CRIMPED WITH MANUFACTURERS RECOMMENDED CRIMPING TOOL.

11. FOR REFERENCE SEE WIRING DIAGRAM DWG NO. 98-19525.

12. VENDOR ITEM-SEE VENDOR ITEM DRAWING.

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FIND NO.	CAGE CODE	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL
19		88-20019-1	1	STRAP, TIEDOWN, ELECTRICAL COMPONENTS, IDENTIFICATION		NOTE 12
18		98-19743	2	TERMINAL, INSULATOR		NOTE 12
17		98-19678	1	SPIRAL WRAP (7.00 LG)		NOTE 12
16		88-20018-3	22	STRAP, TIEDOWN		NOTE 12
15		88-20018-2	15	STRAP, TIEDOWN		NOTE 12
14		88-20018-1	2	STRAP, TIEDOWN		NOTE 12
13		98-19774-01	10	CONTACT, ELECTRICAL, FEMALE		NOTE 12
12		98-19528-01	1	CONNECTOR BODY, ELECTRICAL RECEPTACLE		NOTE 12
11	97403	13226E0107-6	4	TERMINAL, LUG, SMALL, RING, TONGUE, FULLY INSULATED		NOTE 12
10		88-20274-4	10	TERMINAL, SPADE		NOTE 12
9		88-20275-1	2	TERMINAL, DISCONNECT		NOTE 12
8		88-20274-11	2	TERMINAL, SPADE		NOTE 12
7		88-20274-5	12	TERMINAL, SPADE		NOTE 12
6		88-20274-1	86	TERMINAL, SPADE		NOTE 12
5		M22759/16-20-9	A/R	WIRE ELECTRICAL 20GA	SAE-AS22759/16	
4		M22759/16-18-9	A/R	WIRE ELECTRICAL 18GA	SAE-AS22759/16	
3		M22759/16-16-9	A/R	WIRE ELECTRICAL 16GA	SAE-AS22759/16	
2		88-21943	35	PIN		NOTE 12
1		88-21939	1	CONNECTOR BODY, RECEPTACLE, ELECTRICAL		NOTE 12

PARTS LIST

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NEXT ASSY	USED ON
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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	K. HESCOCK	22-10-18
CHECKED	R. BALTAZAR	22-10-18
ENGINEER	K. BEUTEL	22-10-18

DEPT OF DEFENSE PROJECT MANAGER
EXPEDITIONARY ENERGY & SUSTAINMENT SYSTEMS
CORY R. GOETZ

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

WIRING HARNESS,
CONTROL BOX, 60 HZ

SIZE	CAGE CODE	DRAWING NO.
D	30554	98-19780

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WIRE LIST TABLE

WIRE REF NO	WIRE MARKING	FROM	TERMINAL FN	TO	TERMINAL FN	WIRE FN	MARKING COLOR	WIRE LENGTH
1	1A16	TB5–13A	7	CB1–LINE	8	3	RED	26.5
2	1B16	TB5–13B	7	TB3–1A	7	3	RED	8.0
3	1E16	J7–17	2	TB5–13B	7	3	RED	23.5
4	2A18	TB3–2A	6	S7–2	6	4	RED	32.0
5	2B20	CP–GND	10	P4–6	13	5	RED	12.8
6	2C18	TB3–2A	6	CB–GND	10	4	RED	14.3
7	2D18	K14–13	6	K12–12	6	4	RED	6.0
8	2E18	K12–12	6	TB5–15A	6	4	RED	10.3
9	2F18	A5–G	6	TB5–15A	6	4	RED	6.5
10	2G20	CP–GND	10	S7–2	6	5	RED	11.0
11	2H16	J7–6	2	TB5–15B	7	3	RED	22.0
12	2J20	M5–G	10	CP–GND	10	5	RED	18.5
13	2K20	M5–G	10	DS6–3	TIN	5	RED	12.0
14	2X18	CB–GND	10	TB5–15B	6	4	RED	13.5
15	5A16	S1–5	7	S19–2	7	3	RED	11.0
16	5B18	S1–5	6	S18–2	6	4	RED	7.3
17	6A18	J7–15	2	S18–1	6	4	RED	32.0
18	7A18	S1–2	6	TB5–4A	6	4	RED	39.5
19	7B18	S1–4	6	S17–3	6	4	RED	8.5
20	7C18	K12–1	6	TB5–4A	6	4	RED	8.0
21	8A18	S1–1	6	TB5–11A	6	4	RED	37.3
22	9B18	J7–10	2	K15–8	6	4	RED	15.5
23	9C18	S7–9	6	K15–8	6	4	RED	24.8
24	10B18	J7–22	2	TB5–9A	6	4	RED	20.5
25	11A18	J7–16	2	K15–1	6	4	RED	15.3
26	12A20	S7–3	6	P4–1	13	5	RED	10.8
27	13A20	TB5–7A	6	M3–1	9	5	RED	41.5
28	13B20	M5–I	10	DS6–1	TIN	5	RED	12.0
29	13C18	TB5–6A	6	J7–13	2	4	RED	22.0
30								
31	13F20	TB5–6A	6	TB3–3A	6	5	RED	14.3
32	13J18	TB3–3A	6	M5–I	10	4	RED	39.5
33	14A20	S7–5	6	P4–5	13	5	RED	10.5
34	35D18	K12–8	6	S7–4	6	4	RED	29.5
35	15A18	K12–14	6	S1–3	6	4	RED	40.0
36	15B18	S1–3	6	P4–7	13	4	RED	16.8
37	16A16	S19–1	7	CB1–LOAD	8	3	RED	14.5
38	17A18	K12–9	6	A5–F	6	4	RED	14.0
39	19B18	J7–14	2	S5–4	6	4	RED	28.0
40	20A20	M3–2	9	S5–5	6	5	RED	13.3
41	20B20	S5–5	6	S7–8	6	5	RED	11.8
42	20C18	S7–8	6	J7–9	2	4	RED	23.8
43	21A20	K15–12	6	K12–4	6	5	RED	13.0
44	22A18	S17–2	6	TB5–1A	6	4	RED	43.0
45	23A18	K14–8	6	J7–30	2	4	RED	16.5
46	24A18	K14–12	6	TB5–14A	6	4	RED	10.0
47	24B18	TB5–14B	6	J7–31	2	4	RED	23.0

WIRE LIST TABLE (CONTINUED)

WIRE REF NO	WIRE MARKING	FROM	TERMINAL FN	TO	TERMINAL FN	WIRE FN	MARKING COLOR	WIRE LENGTH
48	24D18	K14–14	6	TB5–14A	6	4	RED	10.3
49	25A20	TB5–3A	6	K14–5	6	5	RED	10.5
50	25B18	TB5–3A	6	J7–27	2	4	RED	24.3
51	26A18	K14–9	6	J7–32	2	4	RED	24.0
52	27A18	TB5–16A	6	J7–21	2	4	RED	18.5
53	27G18	TB5–16A	6	P4–3	13	4	RED	30.0
54	28A18	J7–26	2	P4–10	13	4	RED	26.3
55	29A18	P4–9	13	J7–25	2	4	RED	26.3
56	30A18	P4–8	13	J7–24	2	4	RED	26.3
57	31A20	TB5–8A	6	S5–2	6	5	RED	35.5
58	31D20	S5–2	6	DS6–2	TIN	5	RED	8.8
59	31E18	J7–29	2	TB5–8A	6	4	RED	21.5
60	32A18	J7–1	2	P4–4	13	4	RED	26.3
61	33A18	S7–1	6	K15–9	6	4	RED	34.5
62	34B18	J7–12	2	P4–2	13	4	RED	26.3
63	35A20	S7–4	6	K12–13	6	5	RED	33.0
64	35B18	K12–8	6	J7–34	2	4	RED	20.0
65	40B18	M5–S	10	J7–2	2	4	RED	31.5
66	43A18	A5–H	6	J7–8	2	4	RED	23.5
67	44A18	A5–J	6	J7–11	2	4	RED	24.0
68	101E18	TB3–7A	6	J7–33	2	4	BLK	24.9
69	101K18	TB3–7A	6	K15–14	6	4	BLK	19.0
70	101L18	K15–14	6	M1–1	11	4	BLK	40.0
71	102F18	J7–18	2	TB3–6A	6	4	BLK	24.5
72	102K18	TB3–6A	6	K15–13	6	4	BLK	19.0
73	109A18	R1–3	TIN	J7–19	2	4	BLK	29.0
74	110A18	A5–E	6	J7–20	2	4	BLK	22.0
75	110C18	A5–E	6	R1–1	TIN	4	BLK	37.0
76	114A16	A5–D	7	J7–23	2	3	BLK	22.0
77	115A16	A5–A	7	J7–28	2	3	BLK	20.5
78	116A16	A5–B	7	J7–4	2	3	BLK	21.0
79	117A16	A5–C	7	J7–5	2	3	BLK	21.5
80	120A18	M1–2	11	J7–3	2	4	BLK	29.0
81	121B18	J7–37	2	M2–(–)	11	4	BLK	25.3
82	122B18	J7–36	2	M2–(+)	11	4	BLK	25.3
83		S1–2	6	S1–4	6	4		4.3
84		S5–1	6	S5–4	6	4		1.3
85								
86		R1–2	TIN	R1–3	TIN	4		4.0

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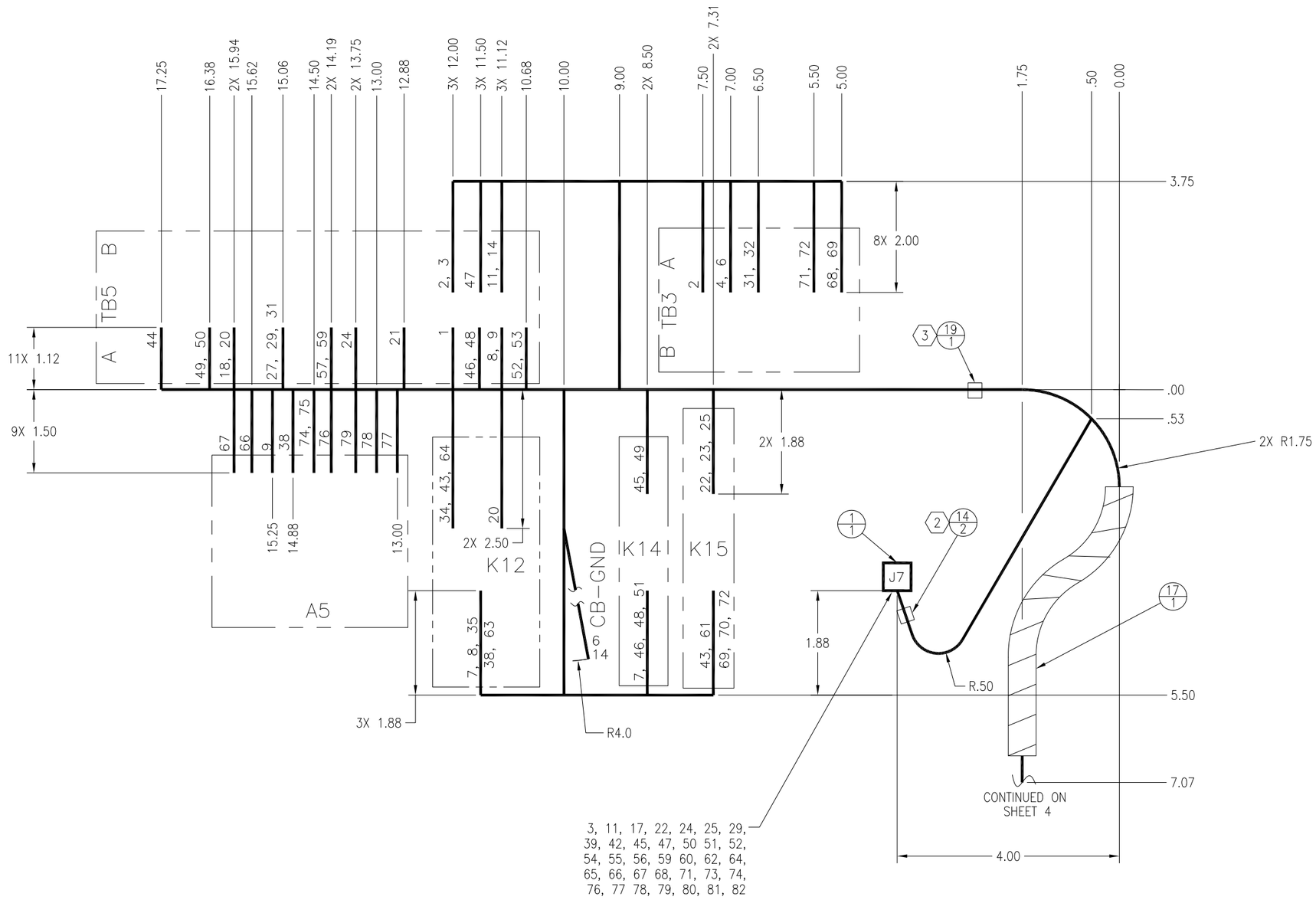

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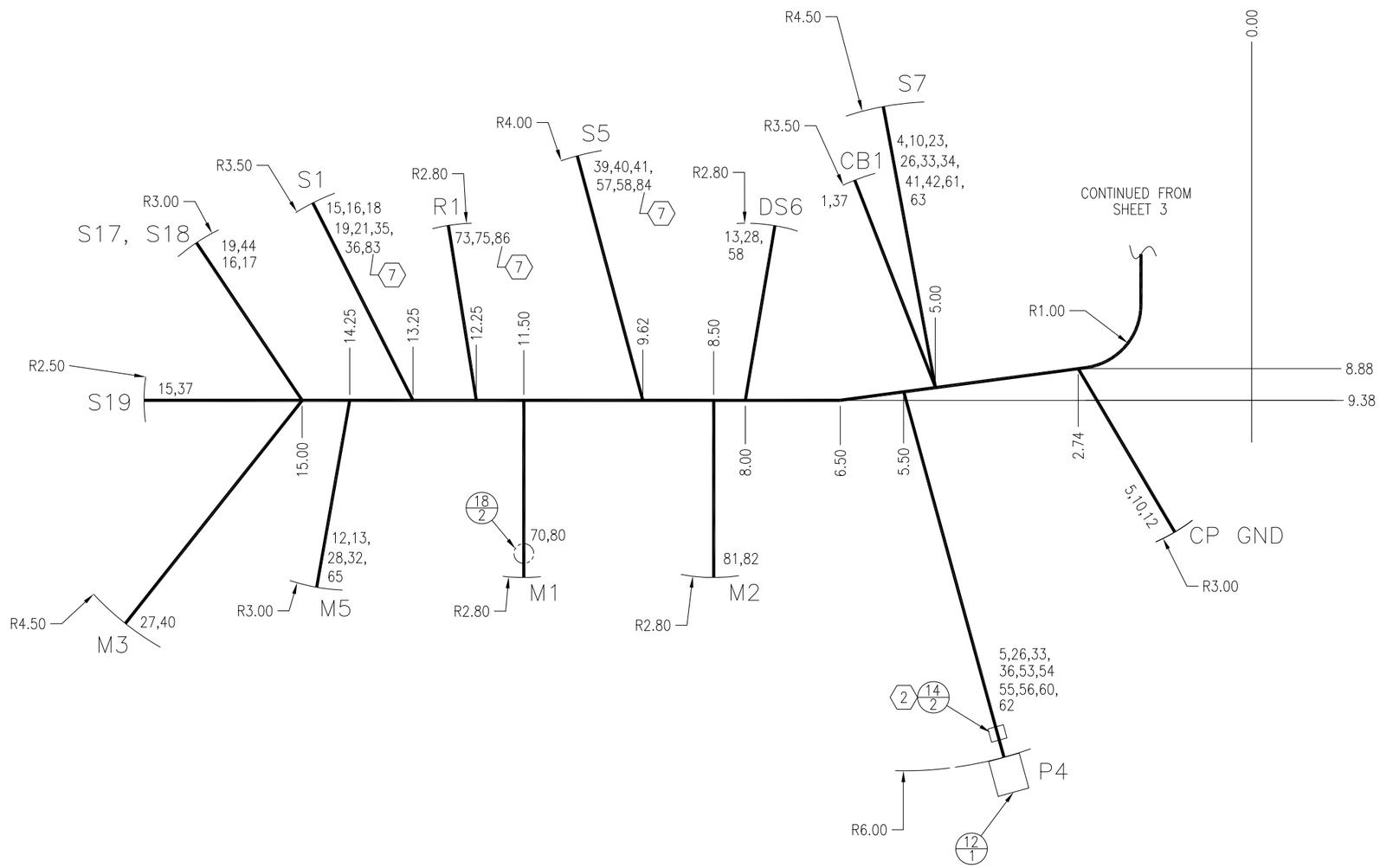

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