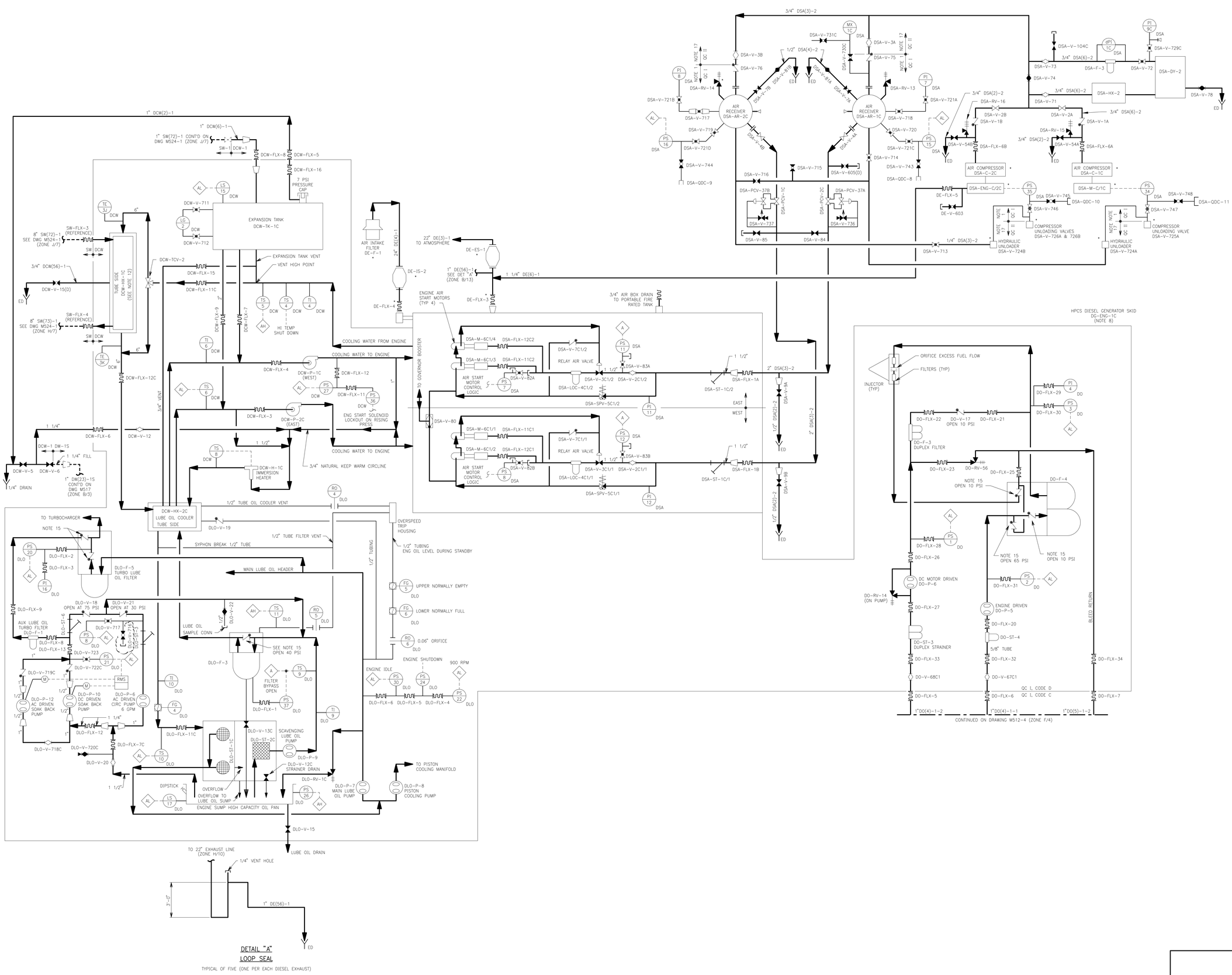

NOTES:

1. ALL DIESEL STARTING AIR (DSA), DIESEL COOLING WATER (DCW), AND DIESEL EXHAUST (DE) PIPING AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACTS 2, 53 AND 215 EXCEPT AS NOTED IN NOTE 17 ARE CLASSIFIED:
   QUALITY CLASS I
   CODE GROUP D
   SEISMIC CATEGORY I
2. ALL DIESEL OIL (DO) PIPING AND ASSOCIATED COMPONENTS ON THIS DRAWING EXCEPT AS NOTED IN NOTES 11 AND 22 ARE CLASSIFIED:
   QUALITY CLASS I
   CODE GROUP C FOR CONTRACT 215
   CODE GROUP D FOR CONTRACT 2 AND 53
   SEISMIC CATEGORY I
3. (DELETED)
4. ALL PIPING AND FITTINGS FOR DE(1)-1 AND DE(2)-1 ARE SUPPLIED BY CONTRACT 53 AND SUPPORTED AND ERECTED BY CONTRACT 215.
5. DELETED
6. EQUIPMENT TAG NUMBER WITH SUFFIX A1 REFERS TO NUMBER 1 ENGINE OF DIESEL GENERATOR DG-ENG-1A. SUFFIX A2 REFERS TO NUMBER 2 ENGINE OF DIESEL GENERATOR DG-ENG-1A. SUFFIX B1 REFERS TO NUMBER 1 ENGINE OF DIESEL GENERATOR DG-ENG-1B AND SUFFIX B2 REFERS TO NUMBER 2 ENGINE OF DIESEL GENERATOR DG-ENG-1B.
7. ALL ITEMS MARKED • ARE FURNISHED WITH ASSOCIATED DG SKID SUPPLIER.
8. ALL PIPING COMPONENTS AND INSTRUMENTATION SHOWN WITHIN THE CONFINES OF THE ENGINE SKID OR AIR RECEIVER SKID ARE SUPPLIED BY THE DG SUPPLIER AND ARE:
   QUALITY CLASS I
   CODE GROUP D
   SEISMIC CATEGORY I
9. (DELETED)
10. (DELETED)
11. ALL DIESEL OIL(DO) PIPING AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACT 215 AND REFERRED TO BY THIS NOTE ARE CLASSIFIED:
    QUALITY CLASS II
    CODE GROUP D
    SEISMIC CATEGORY II
12. DCW-HX-1C IS SUPPLIED BY CONTRACT 2 AND IS ASME SECTION VIII DIVISION 1, DCW-HX-1A1, 1A2, 1B1, 1B2 WERE SUPPLIED BY CONTRACT 53 AND ARE ASME III, 3.
13. (DELETED)
14. CODE BREAK DEFINITIONS FOR THERMOWELLS ARE SHOWN ON DRAWING M610 "INSTALLATION OF THE THERMOWELLS AND SAMPLE PROBES".
15. ALL ITEMS REFERRING TO THIS NOTE ARE INSTALLED WITHIN THE FILTER MANIFOLD.
16. (DELETED)
17. DSA PIPING & EQUIPMENT REFERRED TO BY THIS NOTE ARE CLASSIFIED:
    QUALITY CLASS II
    CODE GROUP D
    SEISMIC CATEGORY I•
    • SEISMIC MOUNTING ONLY
18. THE DIESEL LUBE OIL (DLO) SYSTEM FOR DG-ENG-1A & 1B IS A DUPLICATE OF STEWART & STEVENSONS VENDOR DRAWING NUMBER 209 (CVI NUMBER 53-00,53) AS MODIFIED BY POWER SYSTEMS DRAWING 6911R03002 SHEET 1 THRU SHEET 4 (CVI NUMBER 332-00,1,1 THRU 332-00,1,4 RESPECTIVELY).
19. (DELETED)
20. THE DIESEL LUBE OIL PRESSURE SWITCHES ARE INSTALLED BUT JUMPER IS INSTALLED TO BYPASS THEM. SEE ZONES D1 AND E15 ON SHEETS 2 AND 3.
21. THESE DIESEL LUBE OIL PRESSURE SWITCHES ARE SPARED IN PLACE. SEE ZONES D2 AND D15 ON SHEETS 2 AND 3.
22. ALL DIESEL OIL (DO) PIPING AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACT 215 AND REFERRED TO BY THIS NOTE ARE CLASSIFIED:
    QUALITY CLASS II
    CODE GROUP D+
    SEISMIC CATEGORY I

LEGEND:

1. ALL VALVES SUFFIXED WITH A (V) DENOTE A VENT VALVE.
2. ALL VALVES SUFFIXED WITH A (D) DENOTE A DRAIN VALVE.
3. ALL VALVES SUFFIXED WITH A (TH) DENOTE A THROTTLED VALVE.

REV	DATE	DESCRIPTION	DWN	CHK	APVD
28	11-10-94	REVISED PER 94-10-102-0002 (G-H/7)	HL	KL	WHK
29	12-8-94	REVISED PER 92-0178-5F-332 (H-J/6,8)	HL	KL	JD
30	1-26-95	REVISED PER 89-0227-0A-A26 (K/7)	HL	PAA	TWW
31	2-16-95	REVISED PER 94-10-061-0003 (J/8, K/6)	MJH	HL	RC
32	5-11-95	REVISED PER 91-0298-0A-306 (J/4)	PAA	HL	RC

REV	DATE	REMARKS	DRWN	CHKD	ENGR
24	10-22-93	CORRECTED INCORPORATION OF 55-1800-0A-301 (E/1).	KL	HL	SW
25	11-5-93	REVISED PER 93-09-044-0002 (J-K/6), 93-09-044-0003 (E/15), 93-09-044-0004 (D/4-5), 93-09-044-0005 (H/4-5), 93-09-044-0015 (G-H/10-12), 93-09-044-0016 (J/8), 93-09-044-0028 (G-H/1-2), 93-09-044-0030 (H-K/1-2).	HL	KL	JD
26	6-17-94	REVISED PER 55-3046-0A-301 (F-G/10-11)	HL	PAA	JHD
27	7-1-94	REVISED PER 94-05-169-0003 (D/6)	HL	PAA	JHD

REV	DATE	DESCRIPTION	DWN	CHK	APVD
33	5-20-97	REVISED PER 89-0212-0A-302 (J/4-5), 92-0178-3D-300 (H/3-5).	KL	HL	DLE
34	9-16-99	REVISED PER 99-07-003-0003 (E-G/7-8; H-K/4-7).	HL	KL	SRP
35	1-4-01	REVISED PER 0764-002 (C/12).	KL	BLS	SRP
36	3-14-02	REVISED PER 1486-007 (H/15, J/13)	DMS	KL	SRP
37	3-4-04	REVISED PER 01935-003 (D/14)	H.AL	HL	DRJ

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COLUMBIA GENERATING STATION

SIGNED		DATE
APPROVED	JC MOWERY	4-22-88
DESIGN	JR MILLER	4-22-88
CHECKED	SR PAYNE	4-11-88
DRAWN	DR JACOBSEN	3-24-88

TITLE: FLOW DIAGRAM DIESEL OIL & MISCELLANEOUS SYSTEMS DIESEL GENERATOR BUILDING

DRAWING # M512-1

SCALE N/A REV. 37

MECH\M500\M512-1.DWG

TOP TIER