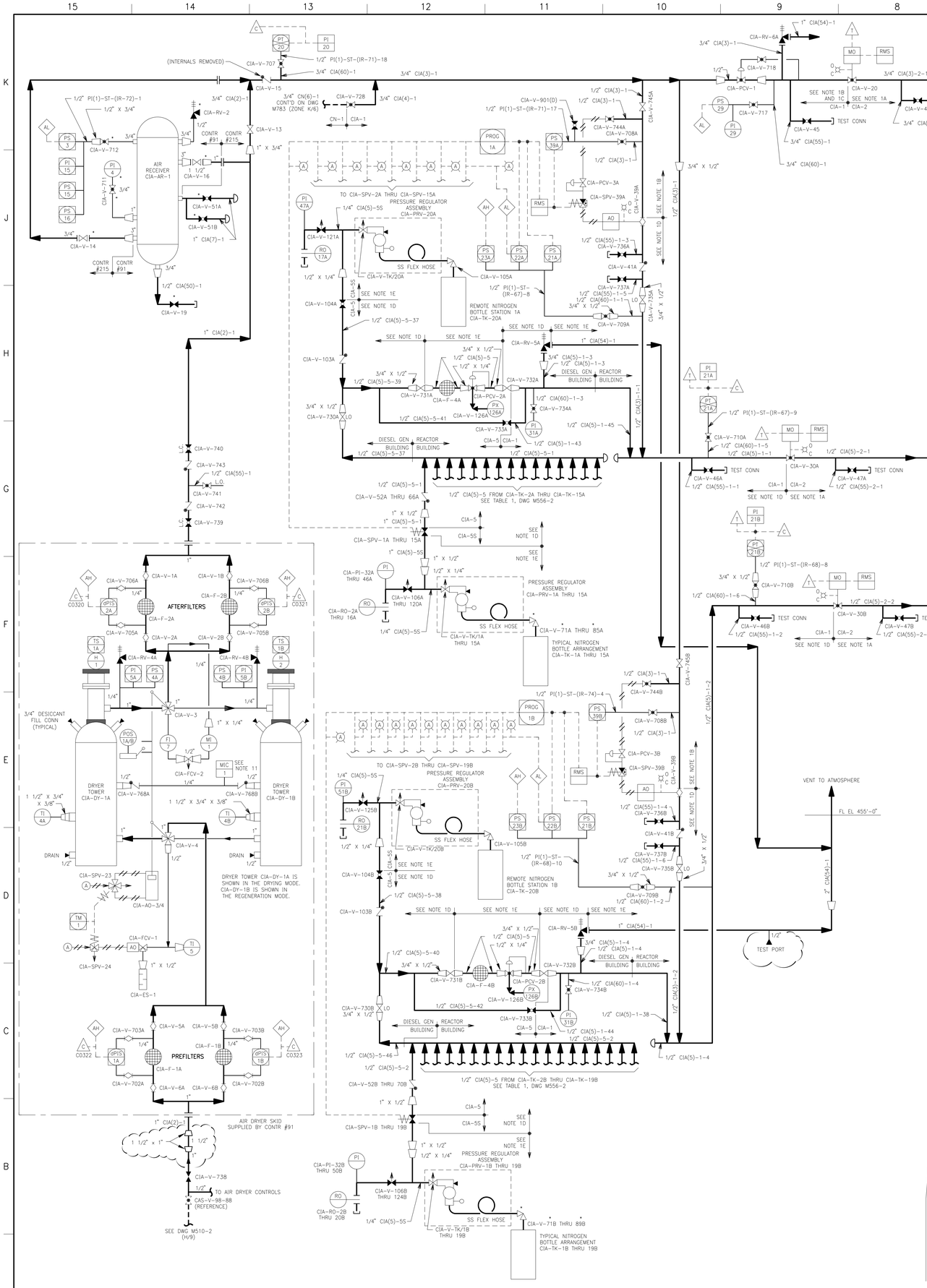

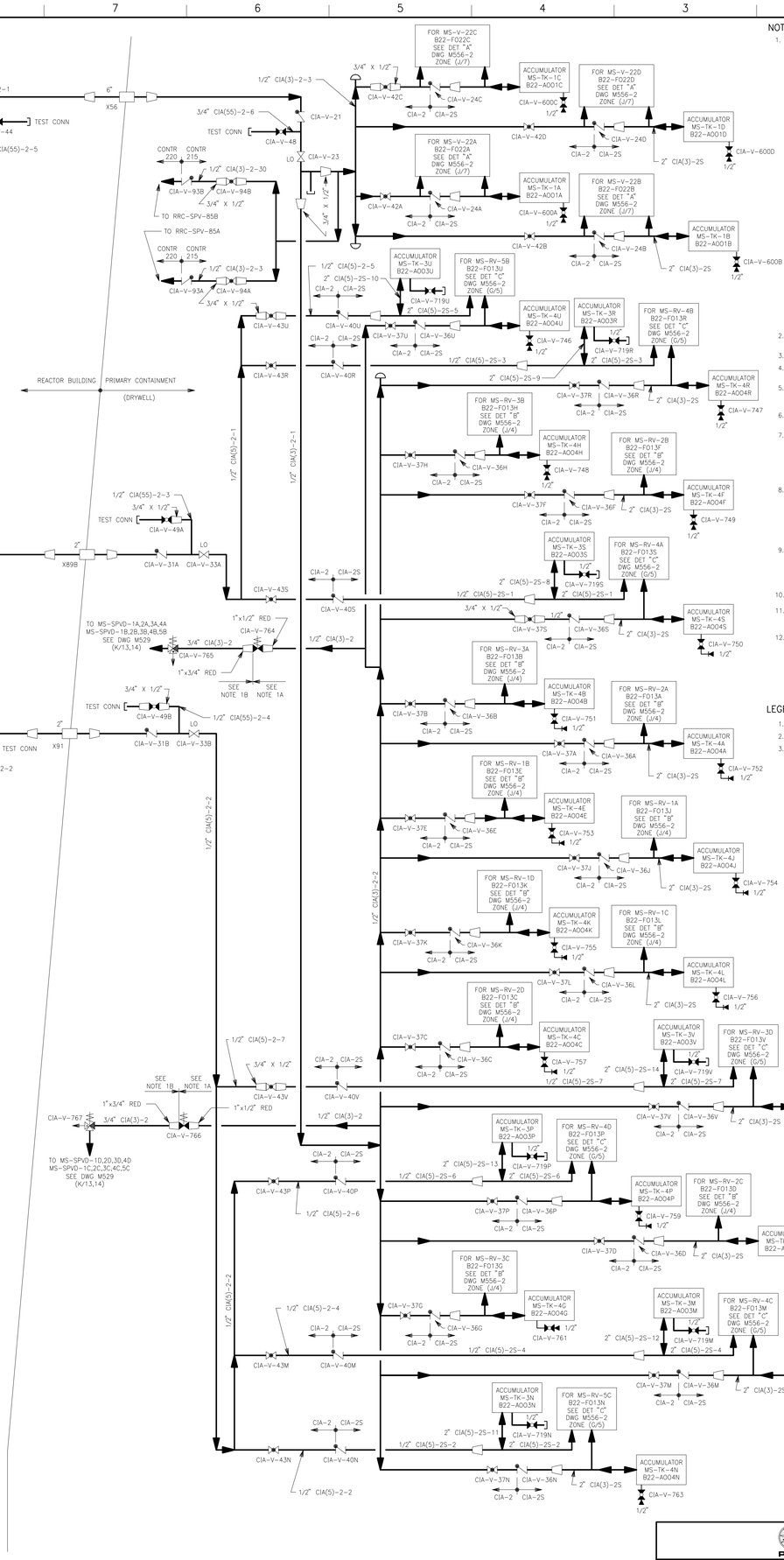

NOTES:

1. PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE INDICATED ON THE FLOW DIAGRAM):
   A) WITHIN PRIMARY CONTAINMENT AND OUT THROUGH THE OUTERMOST PRIMARY CONTAINMENT ISOLATION VALVES:
      SEISMIC CATEGORY I
      QUALITY CLASS I
      CODE GROUP B
   B) PIPING BEYOND OUTERMOST PRIMARY CONTAINMENT ISOLATION VALVE EXCEPT CIA (5):
      SEISMIC CATEGORY II ⊕
      QUALITY CLASS II } ø
      CODE GROUP D
      ⊕ HANGERS TO BE DESIGNED TO SEISMIC CATEGORY I LOADS
   C) EQUIPMENT BEYOND OUTERMOST PRIMARY CONTAINMENT ISOLATION VALVE EXCEPT CIA (5):
      SEISMIC CATEGORY II ⊕
      QUALITY CLASS II } ø
      CODE GROUP D
      ⊕ HANGERS TO BE DESIGNED TO SEISMIC CATEGORY I LOADS
   D) CIA (3) AS NOTED, AND CIA (5) BEYOND OUTERMOST PRIMARY CONTAINMENT ISOLATION VALVE EXCEPT NITROGEN BOTTLES AND ASSOCIATED EQUIPMENT:
      SEISMIC CATEGORY I
      QUALITY CLASS I } ø
      CODE GROUP C
   E) NITROGEN BOTTLES AND ASSOCIATED EQUIPMENT:
      SEISMIC CATEGORY I
      QUALITY CLASS I } ø
      CODE GROUP D
   ø EXCEPT AS NOTED ON M619 INSTRUMENT CONNECTION DIAGRAMS.
2. ALL ITEMS MARKED WITH • ARE FURNISHED WITH ASSOCIATED EQUIPMENT.
3. (DELETED)
4. ALL INSTRUMENTS ON THIS DRAWING TO BE IDENTIFIED BY THE PREFIX "CIA" UNLESS SPECIFICALLY NOTED OTHERWISE.
5. ALL PRESSURE AND FLOW INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
6. FOR UNIQUE LINE NUMBERS NOT SHOWN SEE TABLES I AND II ON DWG M556-2.
7. ALL INSTRUMENT LINES ARE DESIGNATED BY CODE AND LINE NUMBER.
   EXAMPLE: LINES ORIGINATING OUTSIDE CONTAINMENT:
   1/2" PI(1)-ST – (IR-74)-4
   CODE DESIGNATION — LINE NUMBER
8. ALL FLEX HOSE ASSEMBLIES REFERENCED TO THIS NOTE ON THIS DRAWING SHALL BE CLASSIFIED AS:
   SEISMIC CATEGORY I
   QUALITY CLASS I
   CODE GROUP COMMERCIAL ••
   •• MATERIAL CERTIFICATION TO ASME OR ASTM REQUIRED
9. THE "T" HANDLE HAS BEEN REMOVED FROM CIA-PCV-2A AND CIA-PCV-2B. AFTER REGULATOR ADJUSTMENT, A SEAL WIRE SHALL BE RUN THROUGH THE ADJUSTING SCREW, SPIRALED DOWN AROUND THE VALVE BODY AND FIXED WITH A LEAD SEAL.
10. DELETED
11. MOISTURE INDICATING CONTROLLER FEATURE HAS BEEN DEACTIVATED.
12. ALL LOW PRESSURE GAGES HAVE BEEN REMOVED FROM THE NITROGEN BOTTLE REGULATORS, THE PORT PLUGGED, AND THE GAGES RELOCATED DOWN STREAM OF THE BLEED/SHUT-OFF VALVES.

LEGEND

1. ALL VALVES SUFFIXED WITH A (V) DENOTE A 3/4" VENT VALVE
2. ALL VALVES SUFFIXED WITH A (D) DENOTE A 3/4" DRAIN VALVE
3. ALL VALVES SUFFIXED WITH A (TH) DENOTE A THROTTLED VALVE

FSAR FIG

REV	DATE	REMARKS	DRWN	CHKD	ENGR
47	6/27/97	REVISED PER 90-0209-0A-300(J-K/2-4). TRANSLATED DRAWING.	KL	HL	DLE
48	11/13/97	REVISED PER 97-07-004-002 (B / 14)	JAA	SRP	DLE
49	6-16-05	REVISED PER 01077-300 (D/9) AND 03858 (B/14)	HL	KB	SRP

REV	DATE	DESCRIPTION	DWN	CHK	APVD
44	10-4-91	REVISED PER 55-1584-0A-300 (B-G/13-15), 55-1584-0A-301 (D,E,H,J-K/11; F/3; G/1-2), 55-1584-0A-302 (B/2,4; C,J/3; D,H/3-4; G/4), 55-1584-0A-303 (A,G/3; H/4; J-K/14-15) AND 55-1584-0A-304 (C,D/2,3,4; E/2,4; F/3,4; G/3)	SR	RC	JRC
45	8-7-92	REVISED PER 55-1800-0A-303 (F/1-2), 88-0138-3E-301 (C-D/5-7), 88-0138-3E-302 (G/5-8), 90-0344-1A-201 (B-J/11-13; G/1-2), 90-0344-1A-A12 (F/12), 90-0344-1A-A13 (H-J/12-13), 90-0344-1A-A14 (A-B/12) AND 90-0344-1A-A15 (D-E/12)	SR	SRP	MRG
46	6-13-95	REVISED PER 91-0445-0A-304 (G/1-2,C-D/11-12), 91-0445-0A-305 (H/11-12), 94-0380-0A-076 (J/1-2).	HL	KL	RC

REV	DATE	REMARKS	DRWN	CHKD	ENGR
38	8-25-88	REDRAWN AND REVISED PER BDC 86-0519-0A-216	DRJ	KAB	DI
39	5-10-90	REVISED PER BDC 55-0496-0A-755 (B/14)	SR	SRP	MRG
40	6-26-90	REVISED PER 90-0026-0A-200 (J/14).	DRJ	SRP	WDB
41	4-12-91	REVISED PER 55-0586-0A-300 (F-G/9-10).	TCS	DRJ	JPF
42	7-12-91	REVISED PER 88-0261-0A-200 (A-J/2-4).	PHK	SRP	SWW
43	7-26-91	REVISED PER 55-1575-0A-300 (G/1-2)	SR	RC	JPF

ENERGY NORTHWEST
People·Vision·Solutions

COLUMBIA GENERATING STATION

	SIGNED	DATE
APPROVED	D INJERD	8-25-88
DESIGN	JR MILLER	8-25-88
CHECKED	KA BOOTHROYD	8-12-88
DRAWN	DR JACOBSEN	4-11-88

TITLE: FLOW DIAGRAM
CONTAINMENT INSTRUMENT AIR SYSTEM

DRAWING # M556

SCALE N/A | REV. 49 | SHEET 1 OF 2

TOP TIER