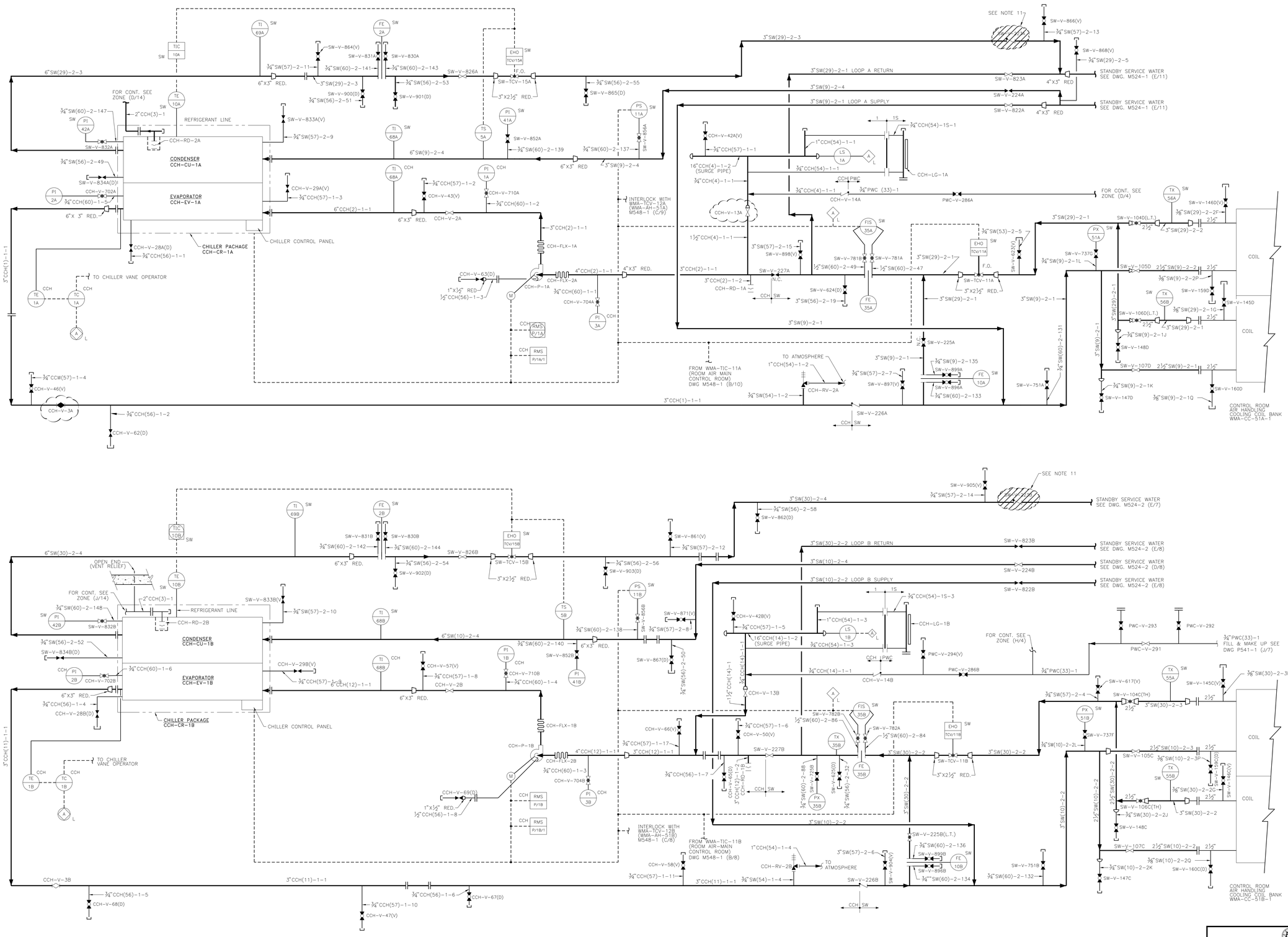

GENERAL NOTES

1. FOR FLOW DIAGRAM LEGEND, SYMBOLS AND ABBREVIATIONS SEE DWG M-501
2. ALL PIPING, INSTRUMENTATION, AND CONTROLS SHALL BE INSTALLED BY THE 215 CONTRACTOR
3. ALL INSTRUMENTATION FOR THE CHILLED WATER SYSTEM SHALL BE PREFIXED BY "CCH" AND ALL INSTRUMENTATION FOR THE STANDBY WATER SYSTEM SHALL BE PREFIXED BY "SW"
4. DELETED
5. ALL INSTRUMENT ROOT VALVES SHALL BE ¾" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
6. ALL PIPING, VALVES AND ASSOCIATED COMPONENTS IN THE SW, CCH AND CHILLER PACKAGE SYSTEM ON THIS DWG EXCEPT AS STATED IN NOTE 7 SHALL BE CLASSIFIED AS FOLLOWS:
   - QUALITY CLASS I
   - SEISMIC CATEGORY I
   - CODE GROUP C
7. ALL VENT AND DRAIN PIPING DOWNSTREAM OF THE ISOLATION VALVES AND RUPTURE DISCS SHALL BE CLASSIFIED AS FOLLOWS:
   - SEISMIC CATEGORY II ⊕
   - QUALITY CLASS II
   - CODE GROUP D

   ⊕ PIPING SUPPORTS TO BE SEISMIC CATEGORY I
8. NORMAL VALVE LINEUP:
   WMA-CC-51A TO STANDBY SERVICE WATER
   WMA-CC-51B TO CHILLED WATER
9. DELETED
10. DELETED
11. CHECK VALVE INTERNALS OF SW-V-223A AND SW-V-223B HAVE BEEN REMOVED.

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
4. ALL VALVES SUFFIXED WITH A (L.T.) DENOTE A LOCKED THROTTLED VALVE

ANNUNCIATION DETAIL

- A — HIGH REFRIGERANT PRESSURE; LOW REFRIGERANT PRESSURE; LOW OIL PRESSURE; HIGH MOTOR TEMPERATURE; HIGH OIL TEMPERATURE (COMPRESSOR DISCHARGE); MOTOR OVERLOAD
- A L — LOW CHILLED WATER FLOW THRU EVAPORATOR
- A L — LOW WATER LEVEL IN SURGE PIPE (16" CCH(4)-1-2) (16" CCW(14)-1-2)
- A — LOW CHILLED WATER TEMPERATURE

REV	DATE	DESCRIPTION	DWN	CHK	APVD
20	2-16-00	REDRAWN AND REVISED PER 199-0002	ARF	JAA	CJZ
21	3-24-00	REVISED PER 256-0003 (B,H/9).	HL	KL	DRJ
22	3-11-02	REV PER 01496-019 (D/3), 01458-011 (B/8-9, G/8, H/9).	NT	HL	SRP
23	8-28-03	REV PER 02515-011 (B/6, H/4 & G/4) & 02515-014 (F/2)	CMO	HL	DRJ
24	6-17-04	REV PER 03029-007 (F/14) AND 03029-009 (H/8).	JFT	HL	SRP

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COLUMBIA GENERATING STATION

SIGNATURE		DATE
APPROVED	CJ ZEAMER	2-16-00
CHECKED	JA ANDERSON	2-15-00
DRAWN	AR FULLER	2-14-00
SCALE	NONE	

TITLE: FLOW DIAGRAM EMERGENCY CHILLED WATER PIPING SYSTEM CONTROL ROOM

DWG NO. M775 REV. 24

SERVER84\MECH\M700\M775.DWG

TOP TIER