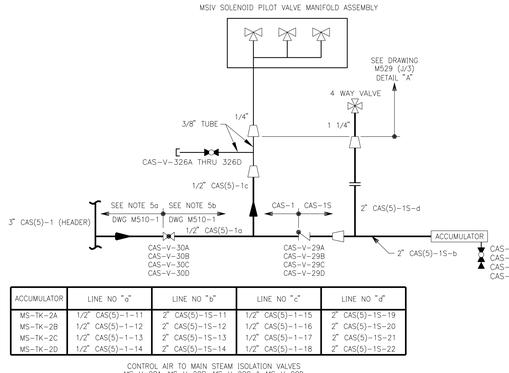
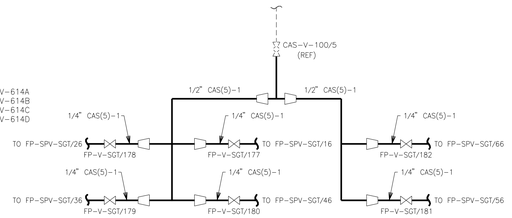


ACCUMULATOR	LINE NO "a"	LINE NO "b"	LINE NO "c"	LINE NO "d"
MS-TK-2A	1/2" CAS(5)-1-11	2" CAS(5)-1S-11	1/2" CAS(5)-1-15	2" CAS(5)-1S-19
MS-TK-2B	1/2" CAS(5)-1-12	2" CAS(5)-1S-12	1/2" CAS(5)-1-16	2" CAS(5)-1S-20
MS-TK-2C	1/2" CAS(5)-1-13	2" CAS(5)-1S-13	1/2" CAS(5)-1-17	2" CAS(5)-1S-21
MS-TK-2D	1/2" CAS(5)-1-14	2" CAS(5)-1S-14	1/2" CAS(5)-1-18	2" CAS(5)-1S-22

CONTROL AIR TO MAIN STEAM ISOLATION VALVES MS-V-28A, MS-V-28B, MS-V-28C & MS-V-28D

DETAIL "B"
M510-2 (H/10)



DETAIL "C"
M510-2 (K/10)

NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING M510-1.
2. CAS VALVES REFLECTED IN TABLES ARE ROOT VALVES FOR SPV'S REFERENCED. TUBING TAKE-OFFS FOR EACH SPV ARE LOCATED WITHIN 12" OF CAS VALVES. EACH TAKE-OFF HAS A 3/8" SHUT-OFF VALVE INSTALLED (TYPICALLY) NEAR THE SPV FOR SINGULAR ISOLATION OF THE SPV AIR SUPPLY.

(NOTE 2)

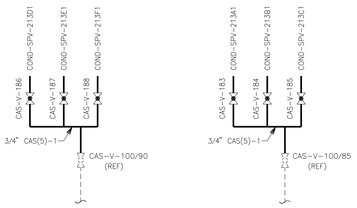
ISOLATION	SUPPLIES
CAS-V-100/81	EDR-SPV-44 EDR-SPV-49 EDR-SPV-51 EDR-SPV-52 EDR-SPV-53 EDR-SPV-54 EDR-SPV-57 EDR-SPV-58 EDR-SPV-59

TABLE "A"
M510-2 (D/6)

(NOTE 2)

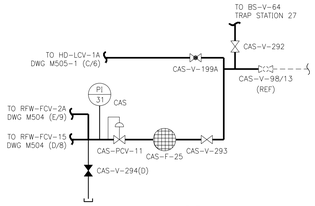
ISOLATION	SUPPLIES
CAS-V-100/75	RWCU-SPV-206A RWCU-SPV-210A RWCU-SPV-214A RWCU-SPV-232A RWCU-SPV-234A

TABLE "F"
M510-2 (D/4)

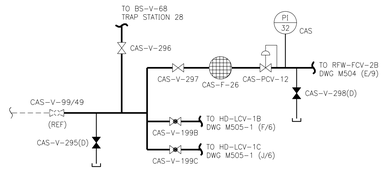


DETAIL "D"
M510-2 (D/7)

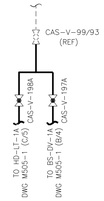
DETAIL "E"
M510-2 (D/7)



DETAIL "F"
M510-2 (B/12)



DETAIL "G"
M510-2 (B/12)



DETAIL "H"
M510-2 (D/13)

(NOTE 2)

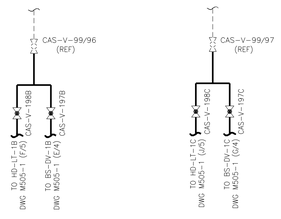
ISOLATION	SUPPLIES
CAS-V-100/83	FDR-SPV-104 FDR-SPV-105 FDR-SPV-108 FDR-SPV-109 FDR-SPV-111 FDR-SPV-112 FDR-SPV-115 FDR-SPV-116 FDR-SPV-118

TABLE "B"
M510-2 (D/6)

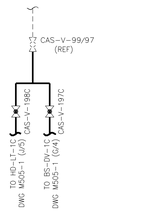
(NOTE 2)

ISOLATION	SUPPLIES
CAS-V-100/77	CF-SPV-616 CF-SPV-619 CF-SPV-620 COND-PCV-264 (CVI 220-01.905,1, THRU 4)

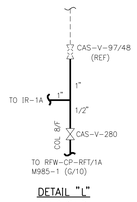
TABLE "G"
M510-2 (D/4)



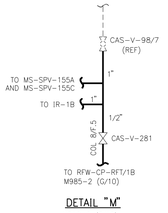
DETAIL "J"
M510-2 (D/13)



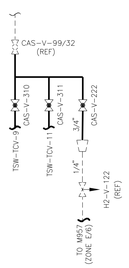
DETAIL "K"
M510-2 (D/13)



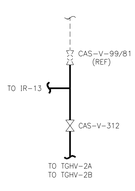
DETAIL "L"
M510-2 (B/13)



DETAIL "M"
M510-2 (B/12)



DETAIL "P"
M510-2 (D/14)



DETAIL "Q"
M510-2 (E/15)

(NOTE 2)

ISOLATION	SUPPLIES
CAS-V-100/79	RWCU-SPV-206B RWCU-SPV-210B RWCU-SPV-214B RWCU-SPV-232B RWCU-SPV-234B

TABLE "C"
M510-2 (D/5)

(NOTE 2)

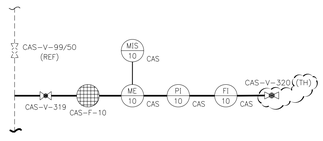
ISOLATION	SUPPLIES
CAS-V-98/40	CF-SPV-47 CF-SPV-89 COND-SPV-221 (CVI 220-01,905,1 THRU 4) COND-SPV-218 (CVI 220-01,905,1 THRU 4) RWCU-SPV-223 SA-SPV-50

TABLE "H"
M510-2 (D/6)

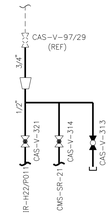
(NOTE 2)

ISOLATION	SUPPLIES
CAS-V-100/78	RWCU-SPV-207B RWCU-SPV-211B RWCU-SPV-212B RWCU-SPV-213B RWCU-SPV-231B RWCU-SPV-238B

TABLE "D"
M510-2 (D/5)

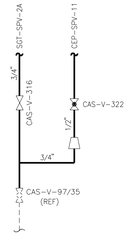


DETAIL "R"
M510-2 (B/11)

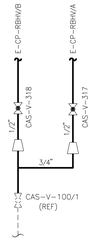


DETAIL "S"
M510-2 (K/6)

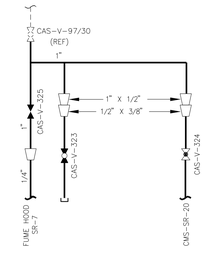
DETAIL "T"
M510-2 (K/9)



DETAIL "U"
M510-2 (K/10)



DETAIL "V"
M510-2 (K/8)

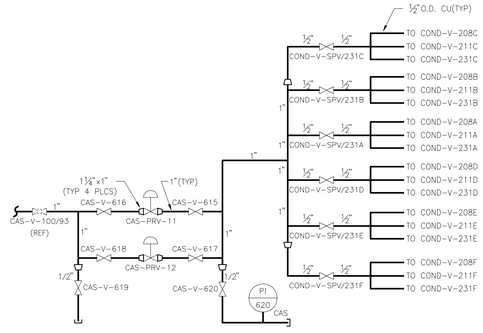


DETAIL "W"
M510-2 (K/7)

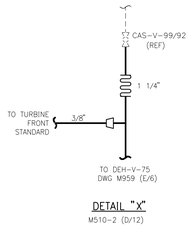
(NOTE 2)

ISOLATION	SUPPLIES
CAS-V-100/76	RWCU-SPV-207A RWCU-SPV-211A RWCU-SPV-212A RWCU-SPV-213A RWCU-SPV-231A RWCU-SPV-238A

TABLE "E"
M510-2 (D/4)



DETAIL "N"
M510-2 (D/8)



DETAIL "X"
M510-2 (D/12)

ISOLATION	SUPPLIES
CAS-V-98/48	FPC-SPV-8A FPC-SPV-8B MWR-SPV-509A MWR-SPV-509B MWR-SPV-525A MWR-SPV-525B MWR-SPV-576A MWR-SPV-576B MWR-SPV-620A MWR-SPV-620B RWCU-SPV-443 — DEACTIVATED

TABLE "J"
M510-2 (D/4)

FSAR FIG.

REV	DATE	DESCRIPTION	DWN	CHK	APVD
11	02-10-05	REV PER 03436-301(C-D/9)	DC	HL	DRJ

REV	DATE	DESCRIPTION	DWN	CHK	APVD
5	6/27/97	REVISED PER 90-0209-0A-302 (J/6-7).	KL	HL	DLE
6	12-30-97	REVISED PER 55-3034-0A-308 (E/8-9). TRANSLATED DRAWING.	KL	HL	DLE
7	7/1/98	REV. PER 98-05-004-0004 (E-F/6)	LNL	HL	DLE
8	3/18/99	REVISED PER 99-02-012-0004 (B/5).	KL	HL	DRJ
9	7-26-02	REV PER 01728-002 (D/5).	NT	KB	DRJ
10	12/23/03	REV PER 02269-279 (C/5), 02269-280 (C/8)	JL	HL	SRP

REV	DATE	DESCRIPTION	DWN	CHK	APVD
0	12-10-93	NEW DRAWING PER 55-2887-0A-202.	SR	PAA	JFB
1	8-19-94	REVISED PER 94-08-030-0004 (B/10)	HL	KL	DEG
2	6-22-95	REVISED PER 89-0356-0A-301 (J-K/7-8)	HL	PAA	RC
3	6-27-96	REVISED PER 94-0375-1B-300 (C,D,E/3, H/2)	HL	KL	RC
4	1-9-97	REVISED PER 96-08-006-0003 (B-D/1-3, E-F/7)	HL	KL	DLE

ENERGY NORTHWEST
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COLUMBIA GENERATING STATION

SIGNATURE		DATE
APPROVED	JAMES F BROWER	12-10-93
DESIGN	ROBY C	12-10-93
CHECKED	P ANDERSON	12-10-93
DRAWN	S RHOTEN	9-23-93
SCALE	N/A	

TITLE: FLOW DIAGRAM CONTROL AND SERVICE AIR SYSTEMS CAS TABLES AND DETAILS

DWG NO: M510-2A REV: 11

FILE NAME: SERVER84\MECH\M500\M510-2A.DWG

TOP TIER