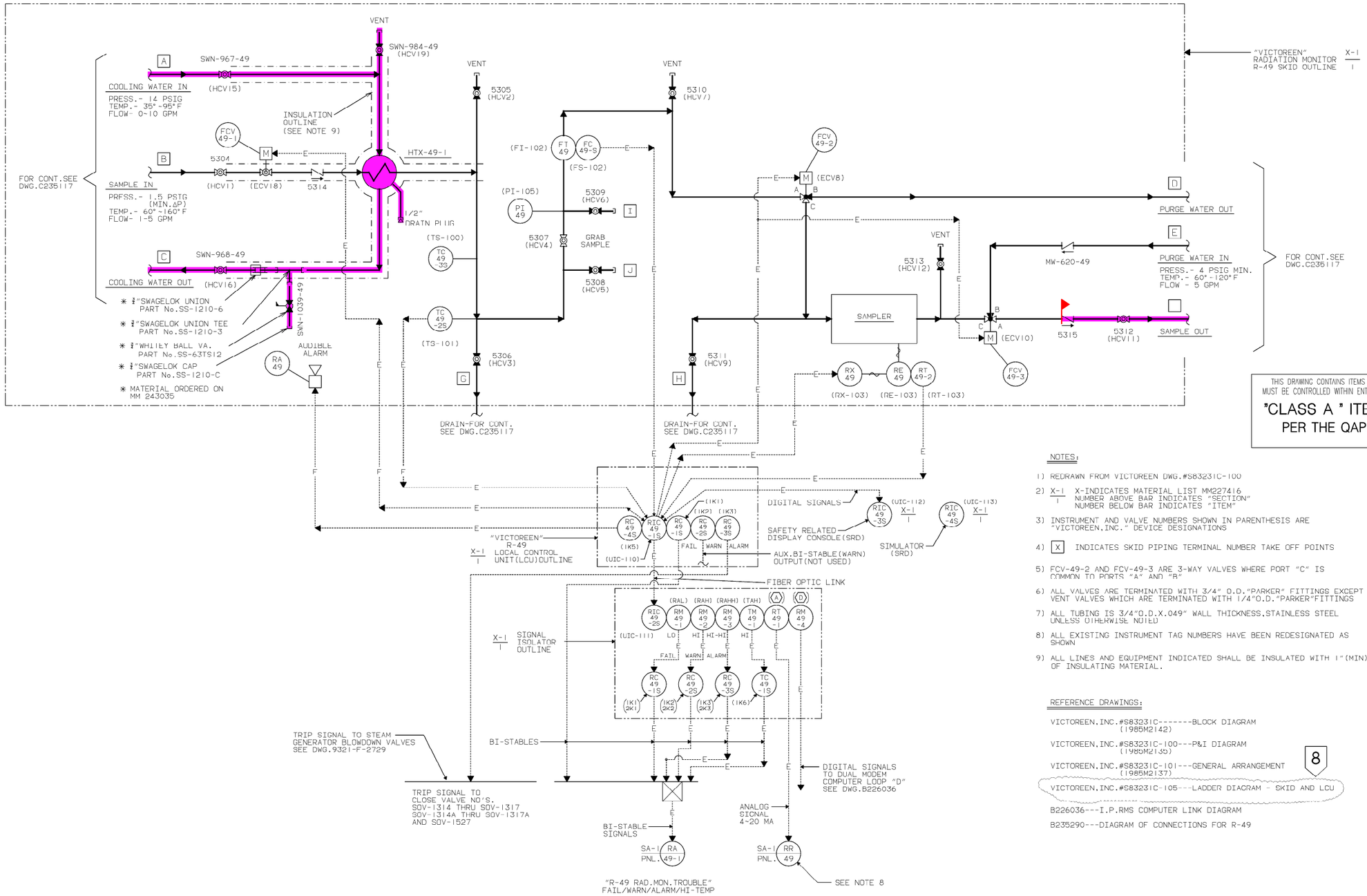
B226038



THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN ENTERGY AS:

"CLASS A " ITEMS PER THE QAPD

NOTES:

1) REDRAWN FROM VICTOREEN DWG.#S83231C-100
2) X-1 / 1 X-INDICATES MATERIAL LIST MM227416 NUMBER ABOVE BAR INDICATES "SECTION" NUMBER BELOW BAR INDICATES "ITEM"
3) INSTRUMENT AND VALVE NUMBERS SHOWN IN PARENTHESIS ARE "VICTOREEN.INC." DEVICE DESIGNATIONS
4) [X] INDICATES SKID PIPING TERMINAL NUMBER TAKE OFF POINTS
5) FCV-49-2 AND FCV-49-3 ARE 3-WAY VALVES WHERE PORT "C" IS COMMON TO PORTS "A" AND "B"
6) ALL VALVES ARE TERMINATED WITH 3/4" O.D."PARKER" FITTINGS EXCEPT VENT VALVES WHICH ARE TERMINATED WITH 1/4"O.D."PARKER"FITTINGS
7) ALL TUBING IS 3/4"O.D.X.049" WALL THICKNESS,STAINLESS STEEL UNLESS OTHERWISE NOTED
8) ALL EXISTING INSTRUMENT TAG NUMBERS HAVE BEEN REDESIGNATED AS SHOWN
9) ALL LINES AND EQUIPMENT INDICATED SHALL BE INSULATED WITH 1"(MIN) THICKNESS OF INSULATING MATERIAL.

REFERENCE DRAWINGS:

VICTOREEN.INC.#S83231C-------BLOCK DIAGRAM (1985M2142)

VICTOREEN.INC.#S83231C-100---P&I DIAGRAM (1985M2136)

VICTOREEN.INC.#S83231C-101---GENERAL ARRANGEMENT (1985M2137)

8

VICTOREEN.INC.#S83231C-105---LADDER DIAGRAM - SKID AND LCU

B226036---I.P.RMS COMPUTER LINK DIAGRAM

B235290---DIAGRAM OF CONNECTIONS FOR R-49

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

SERVICE WATER SYSTEMS AMM-12

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION								
V. MYERS 11/05/03 DES	THIS REVISION IS NON CLASS AS PER THE QAPD. UPDATED DWG AS PER CR-IP2-2003-05968 RELEASED FOR RECORD.	11/28/88	N.D.	F.A.	W.J.KING 11-28-88		
ENG	P.N.69901-AF AM	DATE	CKR.	SUPV.	DESIGN ENG	DISC. ENG.	ENG. MGR.
			REVIEW		APPROVALS		

TITLE: P&I DIAGRAM FOR RADIATION MONITOR R-49 STEAM GENERATOR BLOWDOWN

Con Edison — STATION: INDIAN POINT

DRAWN BY G.KOVACS | SCALE NONE | REC'D

DWG. NO. B226038-8 | MB

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	3-30-06	.	.	.	.	.

REVISIONS

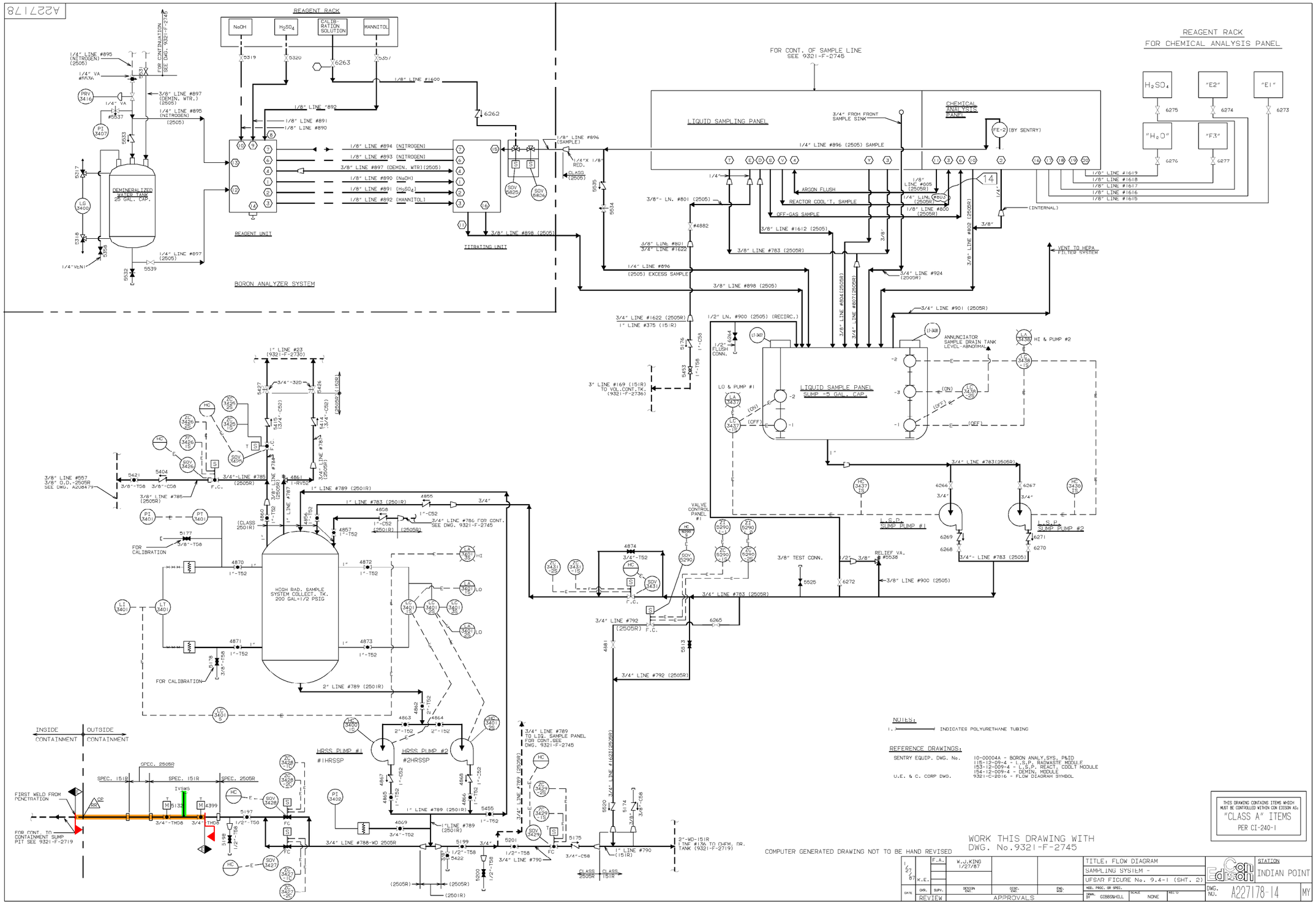
LRA-226038-0

CAD FILE LRA-226038_08.DGN

MASTER FILE 226038_08.CAL

KARL-3898

A227178



NOTES:

1. ——— INDICATES POLYURETHANE TUBING

REFERENCE DRAWINGS:

SENTRY EQUIP. DWG. No.	10-00004A - BORON ANALY.SYS. P&ID 115-12-09-4 - L.S.P. RADWASTE MODULE 153-12-009-4 - L.S.P. REACT. COOLT MODULE 154-12-009-4 - DEMIN. MODULE
U.E. & C. CORP DWG.	9321-C-2016 - FLOW DIAGRAM SYMBOL

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN CON EDISON ASs
"CLASS A" ITEMS
PER CI-240-1

WORK THIS DRAWING WITH DWG. No.9321-F-2745

1/27/87	F.A.	W.J.KING 1/27/87		
	K.E.			
DATE	DWG.	SUPV.	DESIGN ENG.	DISC. ENG.	ENG. MGR.
REVIEW			APPROVALS		

TITLE: FLOW DIAGRAM
SAMPLING SYSTEM -
UFSAR FIGURE No. 9.4-1 (SHT. 2)

MOD. PROC. OR SPEC.
DRWN. BY GIBBSMILL | SCALE NONE | REC'D

Edison — STATION INDIAN POINT

DWG. NO. A227178-14 | MY

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

CONTAINMENT ISOLATION SYSTEM (HPC, IVSW, WCPS & WCCPP) AMM-02

CONTAINMENT PENETRATIONS AMM-26

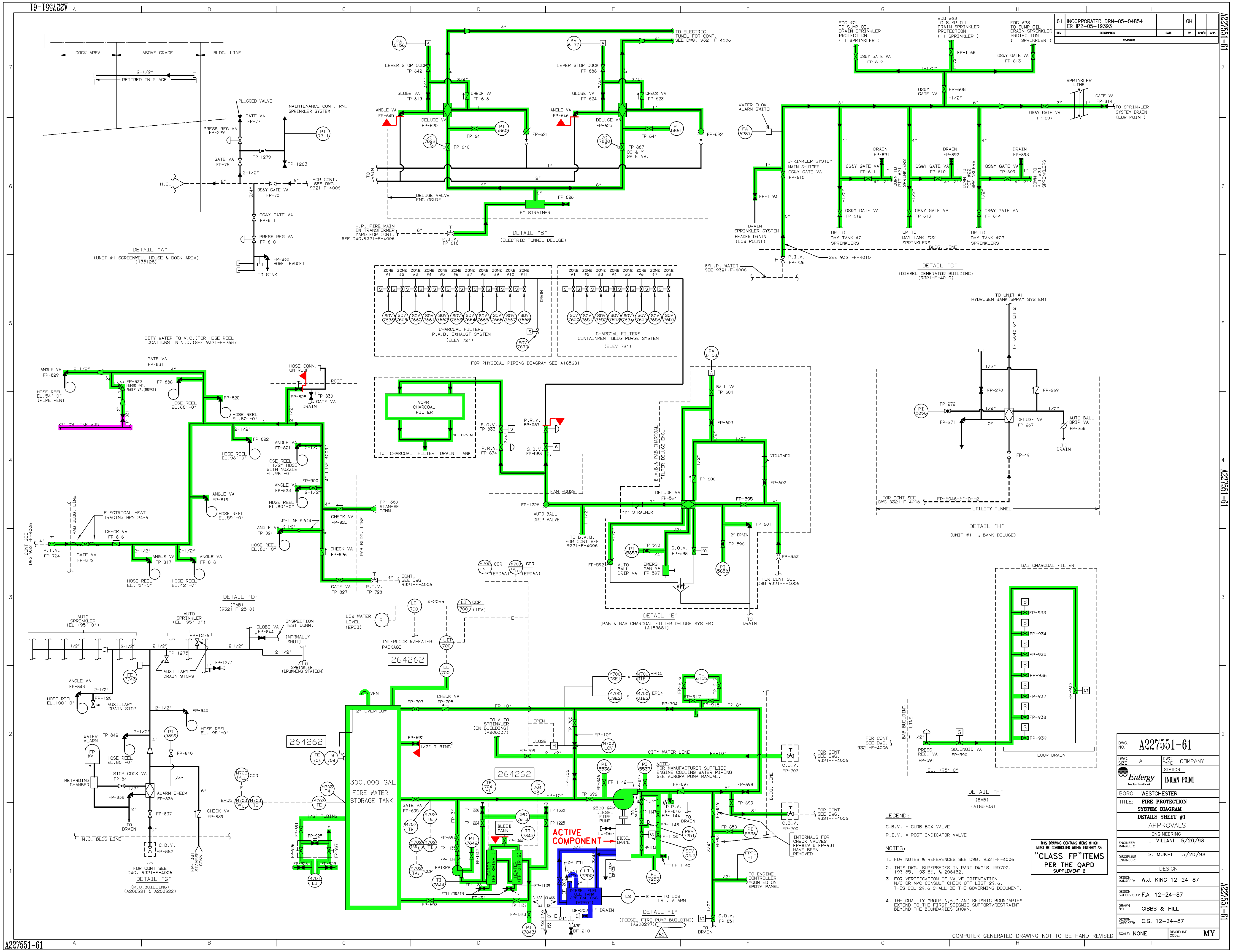
NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	1-2-07		.	.	.	.

REVISIONS

LRA-227178-0

CAD FILE LRA-227178_14.DGN

RASTER FILE 227178_14.CAL



SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- CITY WATER SYSTEM AMM-04
- FIRE PROTECTION WATER SYSTEM AMM-16
- FUEL OIL SYSTEM AMM-21

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	9-27-06	.	.	.	.	.

REVISIONS

LRA-227551-0

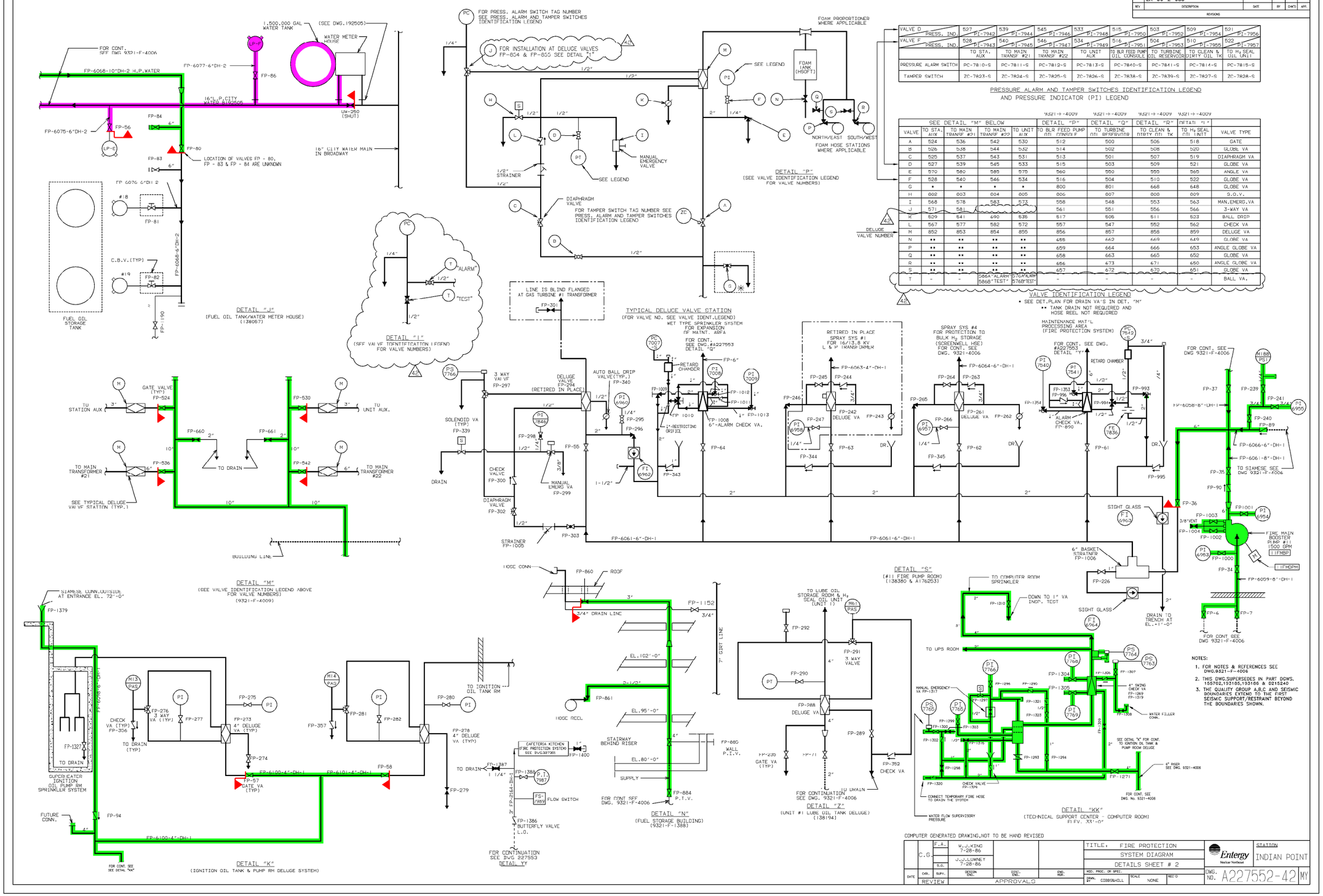
CAD FILE LRA-227551_61.DGN

MASTER FILE 227551_61.CAL

A227552

REV	DESCRIPTION	DATE	BY	CHK'D	APP.
42	INCORPORATED DRN-06-03392. ER-06-2-083		DM		

REVISIONS



VALVE D PRESS. IND.	527 PI-7942	539 PI-7944	545 PI-7946	533 PI-7948	515 PI-7950	503 PI-7952	509 PI-7954	521 PI-7956
VALVE F PRESS. IND.	528 PI-7943	540 PI-7945	546 PI-7947	534 PI-7949	516 PI-7951	504 PI-7953	510 PI-7955	522 PI-7957
	TO STA. AUX	TO MAIN TRANSF #21	TO MAIN TRANSF #22	TO UNIT AUX	TO BLR FEED PUMP OIL CONSOLE	TO TURBINE OIL RESERVOIR	TO CLEAN & DIRTY OIL TK	TO H_2 SEAL OIL UNIT
PRESSURE ALARM SWITCH	PC-7810-S	PC-7811-S	PC-7812-S	PC-7813-S	PC-7840-S	PC-7841-S	PC-7814-S	PC-7815-S
TAMPER SWITCH	ZC-7823-S	ZC-7824-S	ZC-7825-S	ZC-7826-S	ZC-7838-S	ZC-7839-S	ZC-7827-S	ZC-7828-S

PRESSURE ALARM AND TAMPER SWITCHES IDENTIFICATION LEGEND
AND PRESSURE INDICATOR (PI) LEGEND

	SEE DETAIL "M" BELOW				DETAIL "P" 9321-F-4009	DETAIL "Q" 9321-F-4009	DETAIL "R" 9321-F-4009	DETAIL "I" 9321-F-4009	
VALVE	TO STA. AUX	TO MAIN TRANSF #21	TO MAIN TRANSF #22	TO UNIT AUX	TO BLR FEED PUMP OIL CONSOLE	TO TURBINE OIL RESERVOIR	TO CLEAN & DIRTY OIL TK	TO H_2 SEAL OIL UNIT	VALVE TYPE
A	524	536	542	530	512	500	506	518	GATE
B	526	538	544	532	514	502	508	520	GLOBE VA
C	525	537	543	531	513	501	507	519	DIAPHRAGM VA
D	527	539	545	533	515	503	509	521	GLOBE VA
E	570	580	585	575	560	550	555	565	ANGLE VA
F	528	540	546	534	516	504	510	522	GLOBE VA
G	*	*	*	*	800	801	668	648	GLOBE VA
H	602	603	604	605	606	607	608	609	3.O.V.
I	568	578	583	573	558	548	553	563	MAN.EMERG.VA
J	571	581			561	551	556	566	3-WAY VA
K	639	641	690	635	617	606	611	603	BALL DRIP
L	567	577	582	572	557	547	552	562	CHECK VA
M	852	853	854	855	856	857	858	859	DELUGE VA
N	**	**	**	**	655	662	669	649	GLOBE VA
P	**	**	**	**	659	664	665	653	ANGLE GLOBE VA
Q	**	**	**	**	658	663	665	652	GLOBE VA
R	**	**	**	**	656	673	671	650	ANGLE GLOBE VA
S	**	**	**	**	657	672	670	651	GLOBE VA
T	-	-	586A"ALARM" 586B"TEST"	576A"ALARM" 576B"TEST"	-	-	-	-	BALL VA.

DELUGE VALVE NUMBER

VALVE IDENTIFICATION LEGEND

* SEE DET.PLAN FOR DRAIN VA'S IN DET. "M"

** TANK DRAIN NOT REQUIRED AND HOSE REEL NOT REQUIRED

NOTES:

1. FOR NOTES & REFERENCES SEE DWG.9321-F-4006
2. THIS DWG.SUPERSEDES IN PART DGWS. 155702,193185,193186 & 02152240
3. THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

COMPUTER GENERATED DRAWING,NOT TO BE HAND REVISED

DATE	CKR.	SUPV.	DESIGN ENG.	SYSTEM ENG.	ENG. MGR.
	C.G.	F.A. W.J.KING 7-28-86			
		J.J.LUNNEY 7-28-86			
		S.G.			
REVIEW		APPROVALS			

TITLE: FIRE PROTECTION SYSTEM DIAGRAM DETAILS SHEET # 2

MOD. PROC. OR SPEC.

DRWN. BY GIBBSWHILL SCALE NONE REC'D

Entergy Nuclear Northeast

STATION INDIAN POINT

DWG. NO. A227552-42 MY

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	11-14-06					

REVISIONS

LRA-227552-0

CAD FILE LRA-227552_42.DGN

MASTER FILE 227552_42.CAL

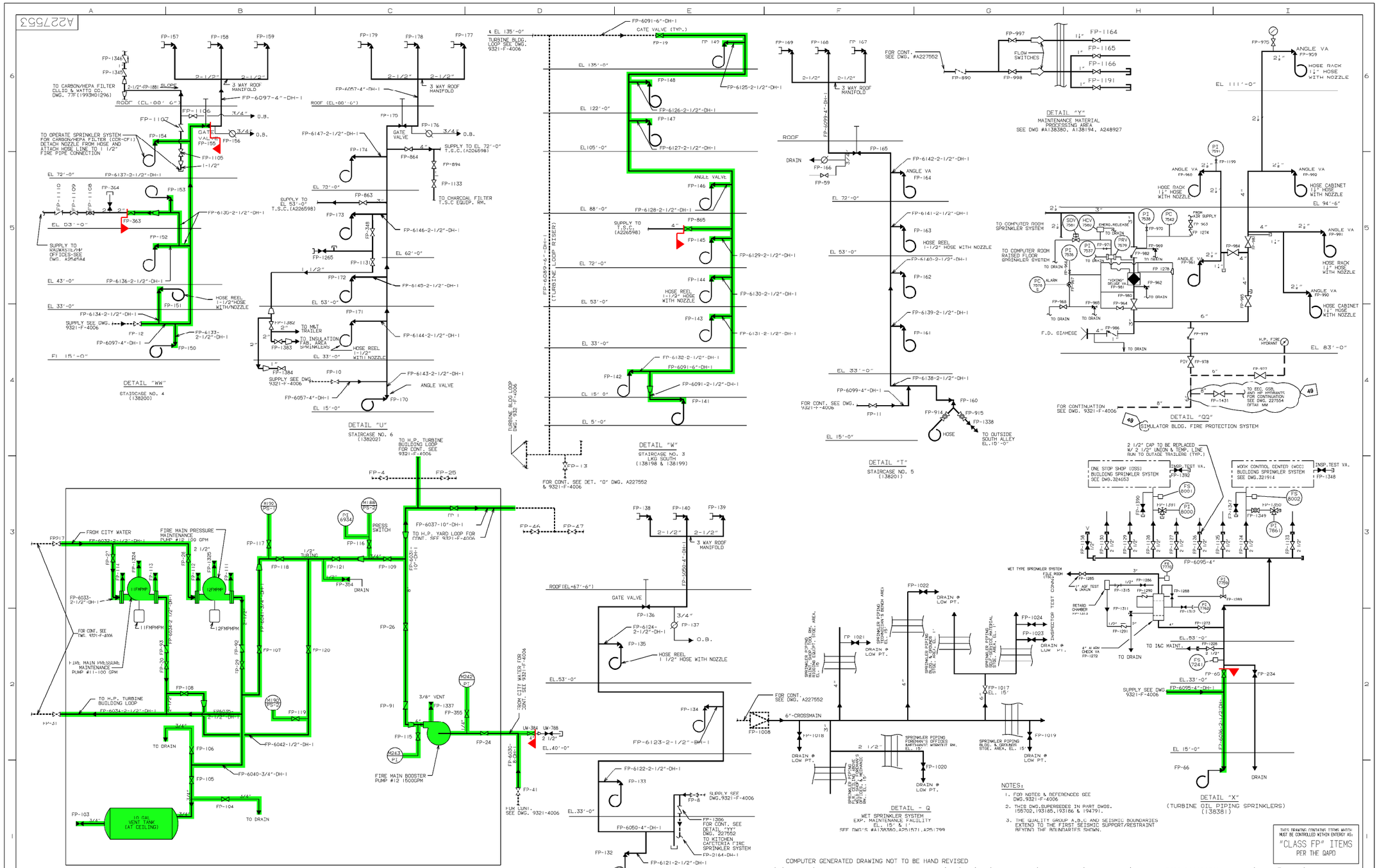
SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

CITY WATER SYSTEM AMM-04

FIRE PROTECTION WATER SYSTEM AMM-16

A227553



NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	9-22-06					

REVISIONS

LRA-227553-0

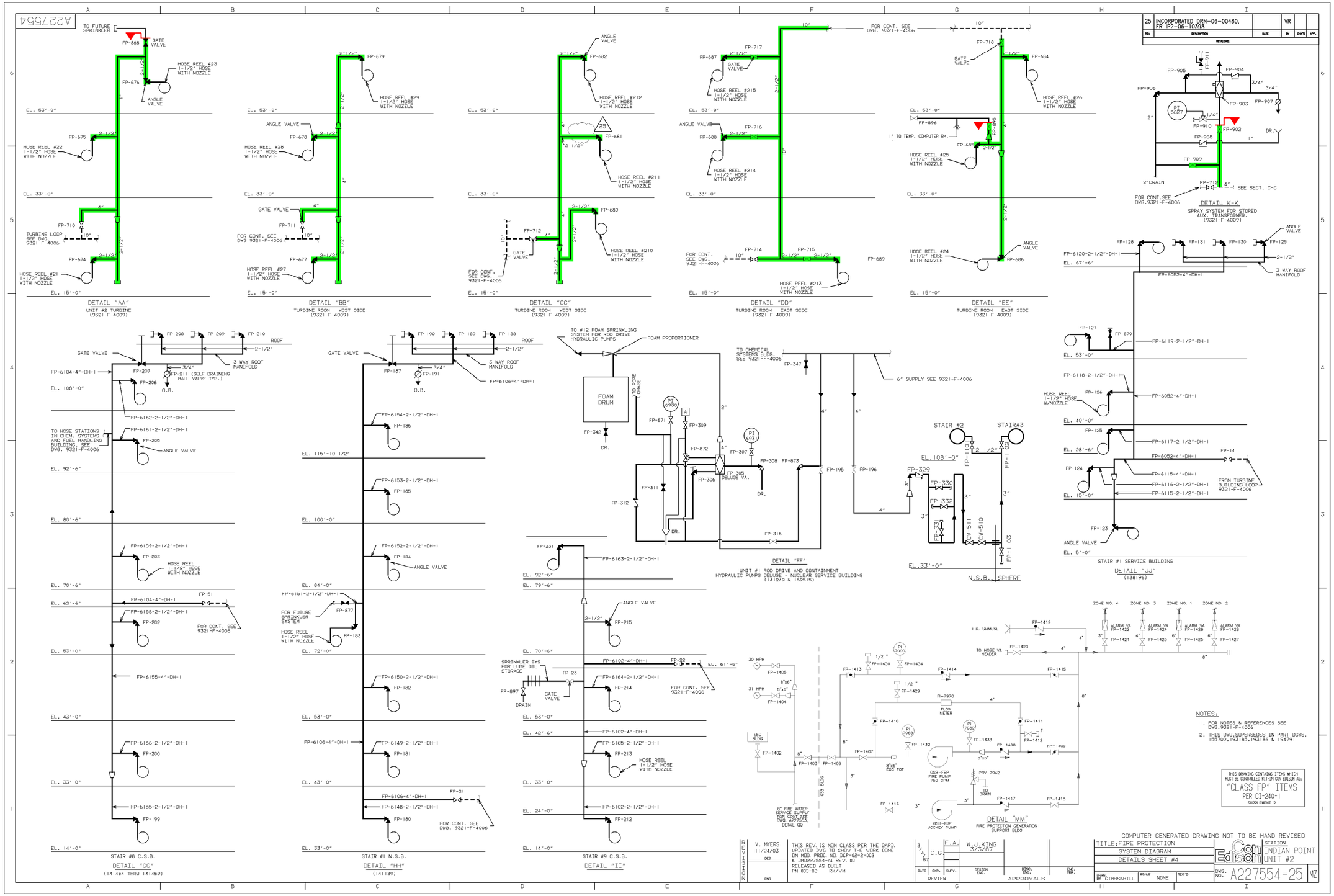
CAD FILE LRA-227553_49.DGN

MASTER FILE 227553_49.CAL

A227554

REV	DESCRIPTION	DATE	BY	CHK'D	APP.
25	INCORPORATED DRN-06-00480, FR IP2-06-1039R		VR		

REVISIONS



SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

FIRE PROTECTION WATER SYSTEM AMM-16

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	9-21-06					

REVISIONS

LRA-227554-0

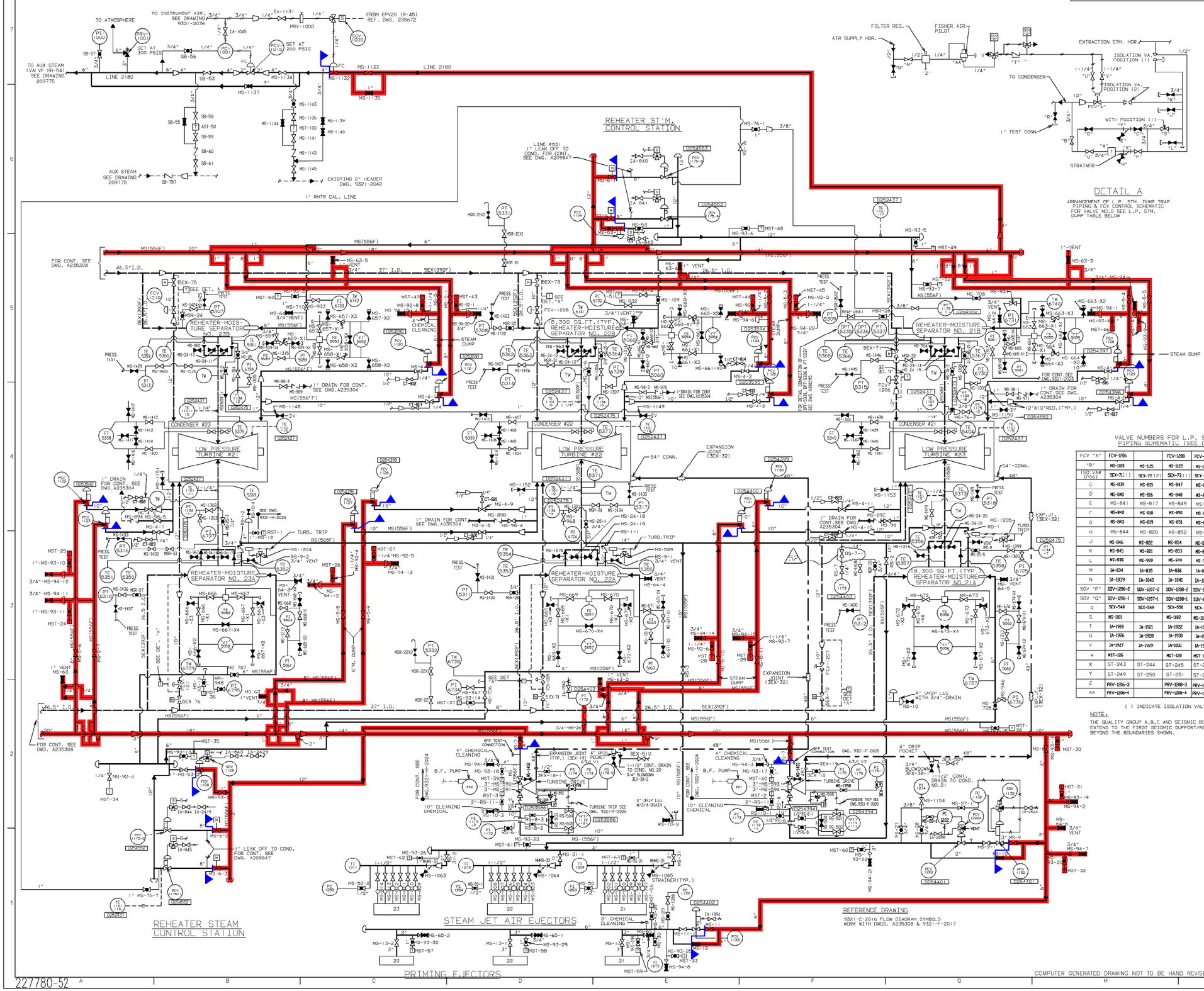
CAD FILE LRA-227554_25.DGN

MASTER FILE 227554_25.CAL

REV	DESCRIPTION	DATE	BY	CHK'D	APP.
52	INCORPORATED DRN-06-00927 ER IP2-05-26044		RM	JF	

REVISIONS

REVISION USE .1 SIZE TEXT ONLY



VALVE NUMBERS FOR L.P. STEAM DUMP PIPING SCHEMATIC (SEE DET. "A")

FCV "A"	FCV-1206		FCV-1208	FCV-1209	FCV-1210	FCV-1211
"B"	MS-1120	MS-1121	MS-1122	MS-1123	MS-1124	MS-1125
ISO.VA# (NOS.)	SEX-71(1)	SEX-72 (2)	SEX-73 (1)	SEX-74(1)	SEX-75 (2)	SEX-76 (1)
C	MS-839	MS-815	MS-847	MS-823	MS-855	MS-831
D	MS-840	MS-816	MS-848	MS-824	MS-856	MS-832
E	MS-841	MS-817	MS-849	MS-825	MS-857	MS-833
F	MS-842	MS 818	MS-850	MS-826	MS-858	MS-834
G	MS-843	MS-819	MS-851	MS-827	MS-859	MS-835
H	MS-844	MS-820	MS-852	MS-828	MS-860	MS-836
J	MS-846	MS-822	MS-854	MS-830	MS-862	MS-838
K	MS-845	MS-821	MS-853	MS-829	MS-861	MS-837
L	MS-939	MS-929	MS-940	MS-941	MS-942	MS-943
M	IA-834	IA-835	IA-836	IA-837	IA-838	IA-839
N	IA-1039	IA-1040	IA-1041	IA-1042	IA-1043	IA-1044
SOV "P"	SDV-1206-2	SDV-1207-2	SDV-1208-2	SDV-1209-2	SDV-1210-2	SDV-1211-2
SOV "Q"	SDV-1206-1	SDV-1207-1	SDV-1208-1	SDV-1209-1	SDV-1210-1	SDV-1211-1
R	SEX-548	SEX-549	SEX-550	SEX-551	SEX-552	SEX 553
S	MS-1181		MS-1182	MS-1183		MS-1184
T	IA-1920	IA-1921	IA-1922	IA-1923	IA-1924	IA-1925
U	IA-1926	IA-1928	IA-1930	IA-1932	IA-1934	IA-1936
V	IA-1927	IA-1929	IA-1931	IA-1933	IA-1935	IA-1937
W	MST-126		MST-128	MST-129	MST-130	MST-131
X	ST-243	ST-244	ST-245	ST-246	ST-247	ST-248
Y	ST-249	ST-250	ST-251	ST-252	ST-253	ST-254
Z	PRV-1206-3		PRV-1208-3	PRV-1209-3	PRV-1210-3	PRV-1211-3
AA	PRV-1206-4		PRV-1208-4	PRV-1209-4	PRV-1210-4	PRV-1211-4

( ) INDICATE ISOLATION VALVE POSITION

NOTE:
THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

MAIN STEAM SYSTEM AMM-23

REVISION SIGNATURES

REV	PROJECT ENGINEER
52	

DWG. NO. 227780-52

Entergy Nuclear Northeast

DWG. TYPE FLOW DIAG.

DWG. SIZE A.

LOCATION INDIAN POINT 2

TITLE FLOW DIAGRAM
MAIN STEAM
UFSAR FIG. NO. 10.2-1 (SHT. 1)

— APPROVALS —

ENGINEERING MANAGER:

PROJECT ENGINEER: F.A.

DESIGNER: W.J.KING 2/12/88

DRAWN BY: GIBBS&HILL

SCALE:

DISCIPLINE CODE: MY

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	1-19-07					

REVISIONS

LRA-227780-0

CAD FILE LRA-227780_52.DGN

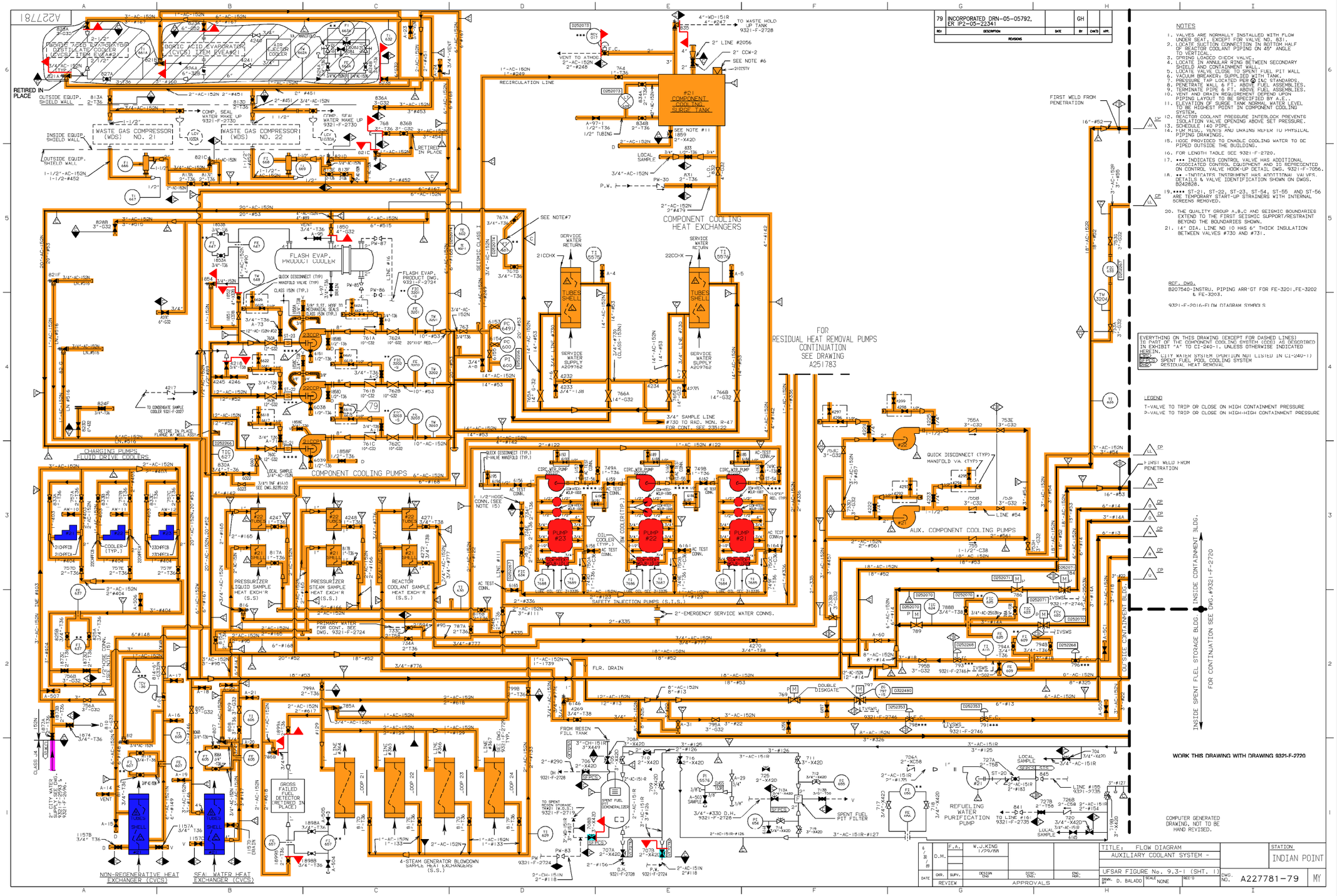
MASTER FILE 227780_51.CAL

227780-52

MECHANICAL

REV	DESCRIPTION	DATE	BY	CHK'D	APP.
79	INCORPORATED DRN-05-05792, ER IP2-05-22341		GH		

REVISIONS



NOTES

1. VALVES ARE NORMALLY INSTALLED WITH FLOW UNDER SEAT, EXCEPT FOR VALVE NO. 831.
2. LOCATE SUCTION CONNECTION IN BOTTOM HALF OF REACTOR COOLANT PIPING ON 45° ANGLE TO VERTICAL.
3. SPRING LOADED CHECK VALVE.
4. LOCATE IN ANNULAR RING BETWEEN SECONDARY SHIELD AND CONTAINMENT WALL.
5. LOCATE VALVE CLOSE TO SPENT FUEL PIT WALL
6. VACUUM BREAKER; SUPPLIED WITH TANK.
7. PRESSURE TAP LOCATED PER ⓪ I&C STANDARDS.
8. PENETRATE WALL 6 FT. ABOVE FUEL ASSEMBLIES.
9. TERMINATE PIPE 6 FT. ABOVE FUEL ASSEMBLIES.
10. VENT AND DRAIN REQUIREMENT DEPEND UPON PIPING LAYOUT TO BE SPECIFIED BY A.E.
11. ELEVATION OF SURGE TANK NORMAL WATER LEVEL TO BE HIGHEST POINT IN COMPONENT COOLING SYSTEM.
12. REACTOR COOLANT PRESSURE INTERLOCK PREVENTS ISOLATION VALVE OPENING ABOVE SET PRESSURE.
13. SCHEDULE 140 PIPE.
14. FOR MISC. VENTS AND DRAINS REFER TO PHYSICAL PIPING DRAWINGS.
15. HOSE PROVIDED TO ENABLE COOLING WATER TO BE PIPED OUTSIDE THE BUILDING.
16. FOR LENGTH TABLE SEE 9321-F-2720.
17. ••• INDICATES CONTROL VALVE HAS ADDITIONAL ASSOCIATED CONTROL EQUIPMENT AND IS REPRESENTED ON CONTROL VALVE HOOK-UP DETAIL DWG. 9321-F-7056.
18. •• -INDICATES INSTRUMENT HAS ADDITIONAL VALVES. DETAILS & VALVE IDENTIFICATION SHOWN ON DWGS. B242828.
19. •••• ST-21, ST-22, ST-23, ST-54, ST-55 AND ST-56 ARE TEMPORARY START-UP STRAINERS WITH INTERNAL SCREENS REMOVED.
20. THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.
21. 14" DIA. LINE NO 10 HAS 6" THICK INSULATION BETWEEN VALVES #730 AND #731.

REF. DWG.
B207540-INSTRU. PIPING ARR'GT FOR FE-3201,FE-3202 & FE-3203.

9321-F-2016-FLOW DIAGRAM SYMBOLS

EVERYTHING ON THIS DRAWING (EXCEPT FOR DASHED LINES) IS PART OF THE COMPONENT COOLING SYSTEM (CCS) AS DESCRIBED IN EXHIBIT "A" TO CI-240-1, UNLESS OTHERWISE INDICATED HEREIN.
CW CITY WATER SYSTEM (MAKEUP NOT LISTED IN CI-240-1)
SFPCS SPENT FUEL POOL COOLING SYSTEM
RHR RESIDUAL HEAT REMOVAL

LEGEND
T-VALVE TO TRIP OR CLOSE ON HIGH CONTAINMENT PRESSURE
P-VALVE TO TRIP OR CLOSE ON HIGH-HIGH CONTAINMENT PRESSURE

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- SAFETY INJECTION SYSTEM AMM-03
- CITY WATER SYSTEM AMM-4
- PRIMARY MAKEUP WATER SYSTEM AMM-06
- CHEMICAL AND VOLUME CONTROL SYSTEM AMM-07
- COMPONENT COOLING WATER SYSTEM AMM-13

DATE				
6/30/89	D.M.	F.A.	W.J.KING 1/29/88	
	DKR.	SUPV.	DESIGN ENG	DISC. ENG. / ENG. MGR.
	REVIEW		APPROVALS	

TITLE: FLOW DIAGRAM
AUXILIARY COOLANT SYSTEM -
UFSAR FIGURE No. 9.3-1 (SHT. 1)

DRAWN BY D. BALADO | SCALE NONE | REC'D

STATION: INDIAN POINT

DWG. NO. A227781-79 | MY

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	10-18-06					

REVISIONS

LRA-227781-0

CAD FILE LRA-227781_79.DGN
MASTER FILE 227781_79.CAL

C235117

SERVICE WTR.TUNNEL @EL.35'-0"

STEAM GEN BLOWDOWN TK.RM. @EL.51'-0"

PAB @ EL.15'-0"

FOR CONT.SEE DWG. A209762

3/4" SWN-942

1" LINE #1576 (CLASS SWN-SS)

2"LINE #12

SWN-940

FOR CONT.SEE DWG. A209762

3/4" SWN-943

2" LINE 1579 (CLASS SWN-SS)

2"LINE #12

SWN-945

3/4"

FOR CONT.SEE DWG. A209762

SWN-941

2" LINE #12

SWN-939

" LINE #1575 (CLASS SWN-SS)

3/4" LINE #1578 (CLASS 153)

#5302

1/2" LINE #366

#5301

FOR CONT. SEE DWG. 9321-F-2729

P.A.B. EL.80'-0"

MW-595

3/4" MW-594

FOR CONT. SEE 9321-F -2696

SUMP PUMP #25

1" LINE #1580 (CLASS-153)

1"

3/4"

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN CON EDISON AS:

" CLASS A" ITEMS PER CI-240-1

FOR TAGGING, SEE DMD25117-AC

ELECTRICAL HEAT TRACE 8"Φ CONTAINMENT PIPE (CLASS SWN-SS)

LG XXXX

LEVEL GAGE

ELECTRICAL HEAT TRACE 3"Φ CONTAINMENT PIPE (CLASS SWN SS)

#SWN-961

1/2"

#SWN-962

#SWN-960

1/2" LINE #1621 (CLASS-153)

RADIATION MONITOR ENCLOSURE

MW-600

1" LINE #1580

3/4" LINE # 1579 (TYP.)

2" LINE #1579

3/4" LINE #1577

1" PORTABLE PUMP CONN.

3/4" LINE # 1575 (TYP.)

1" LINE #1575

3/4" LINE # 1576 (TYP.)

1" LINE #1576

SWN-982 R-46 **

3/4" COOLING WTR. INL.(TYP.) A

3/4" COOLING WTR. OUTL.(TYP.) C

3/4" SAMPLE INL.(TYP.) B

3/4" PURGE WTR OUTL.(TYP.) D

3/4" PURGE WTR INL.(TYP.) E

3/4" SAMPLE OUTL.(TYP.) F

H G

MW-597

SWN-983 R-53 **

A C B D E F H G

MW-598

SWN-981 R-49 *

A C B D E F H G

MW-596

3/4" LINE #1580 (TYP.)

(2)3/4" DRAINS (TYP.)

NOTE :

ALL PIPING IS "CLASS A", 10CFR21 SEISMIC CLASS I

* CODE PIPE INCLUDES FIRST ISOLATION VALVE.

** FOR R-46 AND R-53, CODE PIPE FROM TERMINAL A THROUGH TERMINAL C AND FROM TERMINAL B THROUGH TERMINAL F.

FLOW DIAGRAM

FOR P & I DIAGRAM SEE DWG.B226037(R-46)& B242687(R-53) (TUBING ARRANGEMENT ON SKID)

FOR P & I DIAGRAM SEE DWG.B226038 (TUBING ARRANGEMENT ON SKID)

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION	DES	ENG		DATE	CKR.	SUPV.	REVIEW
	P. DUGGAN 09-10-97		THIS REVISION IS NON-CLASS PER CI-240-1. UPDATED DRAWING TO SHOW WORK DONE ON OIR#97-E02808 , FILE#0-1200. RELEASED AS CONSTRUCTED	11 28 88	WWS	FA	
			P.N. 69911-CI WG/VJ 09-10-97				

APPROVALS			
DESIGN	DISC.	ENG.	DRWN.
W. KING 11/28/88			
DESIGN ENG	DISC. ENG.	ENG. MGR.	

TITLE: FLOW DIAGRAM FOR RADIATION MONITOR R-46,R-49 AND R-53

DRWN. BY MORMINO | SCALE NONE | REC'D

Con Edison

STATION INDIAN POINT

DWG. NO. C235117-03 MB

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

SERVICE WATER SYSTEMS AMM-12

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	3-30-06					

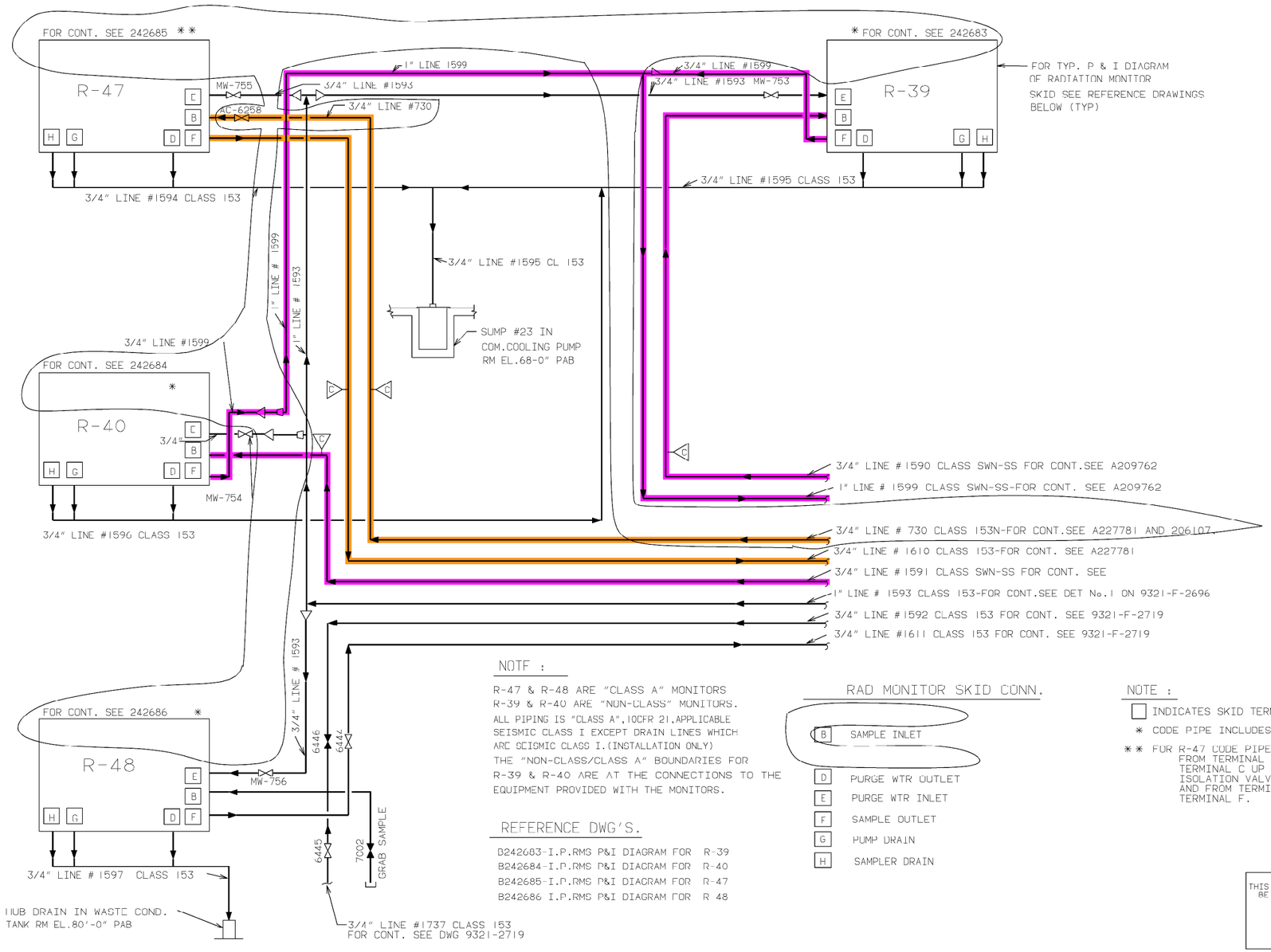
REVISIONS

LRA-235117-0

CAD FILE LRA-235117_3.DGN

MASTER FILE 235117_3.CAL

B235122



NOTE :

R-47 & R-48 ARE "CLASS A" MONITORS
R-39 & R-40 ARE "NON-CLASS" MONITORS.
ALL PIPING IS "CLASS A",10CFR 21,APPLICABLE SEISMIC CLASS I EXCEPT DRAIN LINES WHICH ARE SEISMIC CLASS I.(INSTALLATION ONLY)
THE "NON-CLASS/CLASS A" BOUNDARIES FOR R-39 & R-40 ARE AT THE CONNECTIONS TO THE EQUIPMENT PROVIDED WITH THE MONITORS.

REFERENCE DWG'S.

B242683-I.P.RMS P&I DIAGRAM FOR R-39
B242684-I.P.RMS P&I DIAGRAM FOR R-40
B242685-I.P.RMS P&I DIAGRAM FOR R-47
B242686 I.P.RMS P&I DIAGRAM FOR R 48

RAD MONITOR SKID CONN.

- B SAMPLE INLET
- D PURGE WTR OUTLET
- E PURGE WTR INLET
- F SAMPLE OUTLET
- G PUMP DRAIN
- H SAMPLER DRAIN

NOTE :

☐ INDICATES SKID TERMINAL TAKE-OFF POINT
* CODE PIPE INCLUDES FIRST ISOLATION VALVE.
** FOR R-47 CODE PIPE FROM TERMINAL A THROUGH TERMINAL C UP TO AND INCLUDING ISOLATION VALVE, AND FROM TERMINAL B THROUGH TERMINAL F.

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN CON EDISON AS
"CLASS A" ITEMS
PER CI-240-1

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

SERVICE WATER SYSTEMS AMM-12

COMPONENT COOLING WATER SYSTEM AMM-13

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION								
	V.JAYARAMAN 12-07-98 DES	THIS REVISION IS CLASS "A" PER CI-240-1. UPDATED DRAWING PER MOD. PROC. PGI-93-09701-M AND DMDS 235122-AD REV.00 AND 235122-AE REV.00 FILE # R-761. RELEASED AS BUILT. P/N 09701-93 AG/VJ	11/28/88	R.M.	F.A.	W.J.KING 11-28-88		
	ENG		DATE	CKR.	SUPV.	DESIGN ENG	DISC. ENG.	ENG. MGR.
				REVIEW		APPROVALS		

TITLE: FLOW DIAGRAM FOR RADIATION MONITORS R-39, R-40, R-47 & R-48

DRWN BY MARZULLO | SCALE NONE | REC'D

Con Edison | STATION INDIAN POINT

DWG. NO. B235122-04 | MB

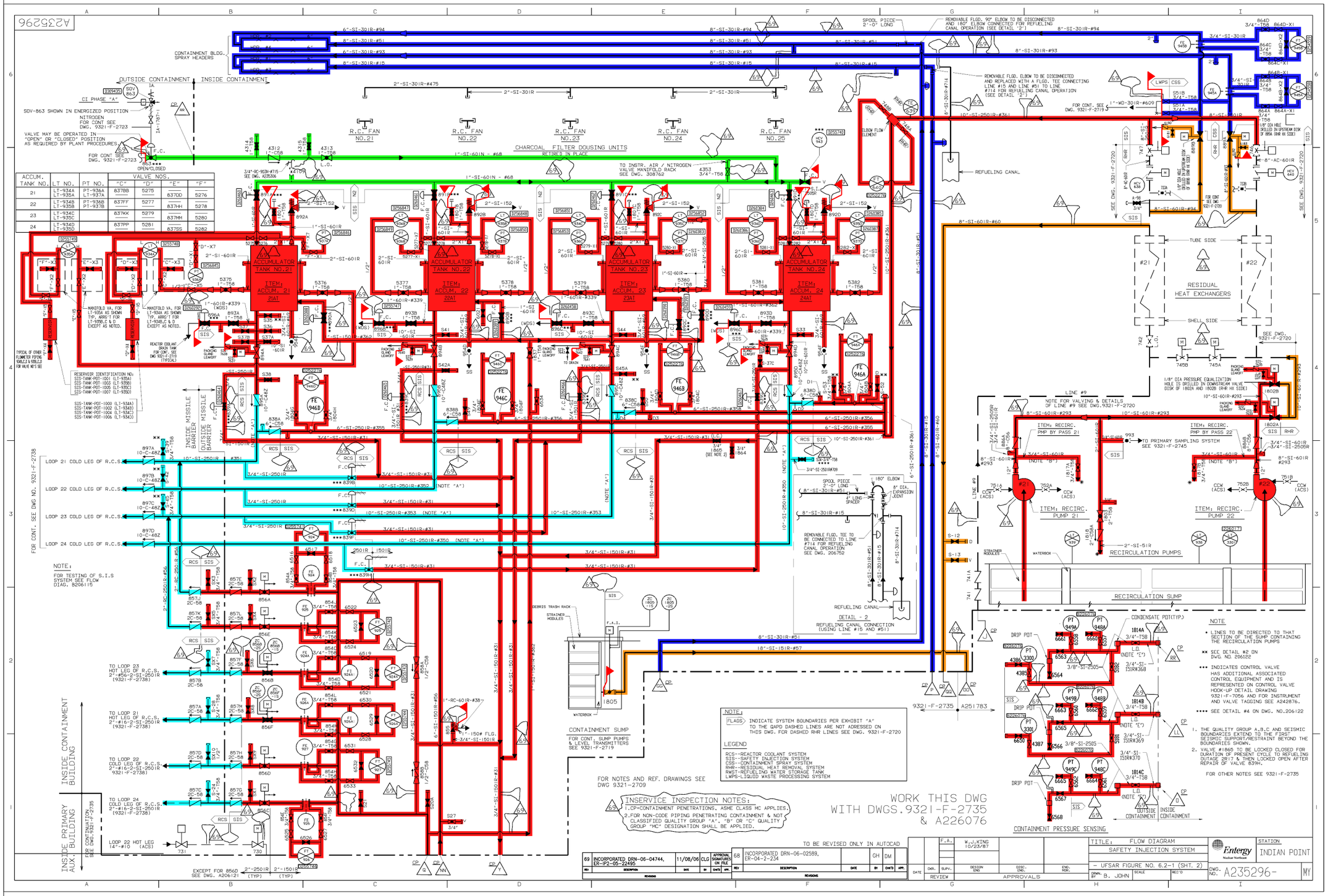
NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	12-1-06		.	.	.	.

REVISIONS

LRA-235122-0

CAD FILE LRA-235122_4.DGN
MASTER FILE 235122_4.CAL

A235296



SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- CONTAINMENT SPRAY SYSTEM AMM-01
- SAFETY INJECTION SYSTEM AMM-03
- RESIDUAL HEAT REMOVAL AMM-05
- NITROGEN SYSTEMS AMM-10
- REACTOR COOLANT SYSTEM AMM-33

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	1-19-07					

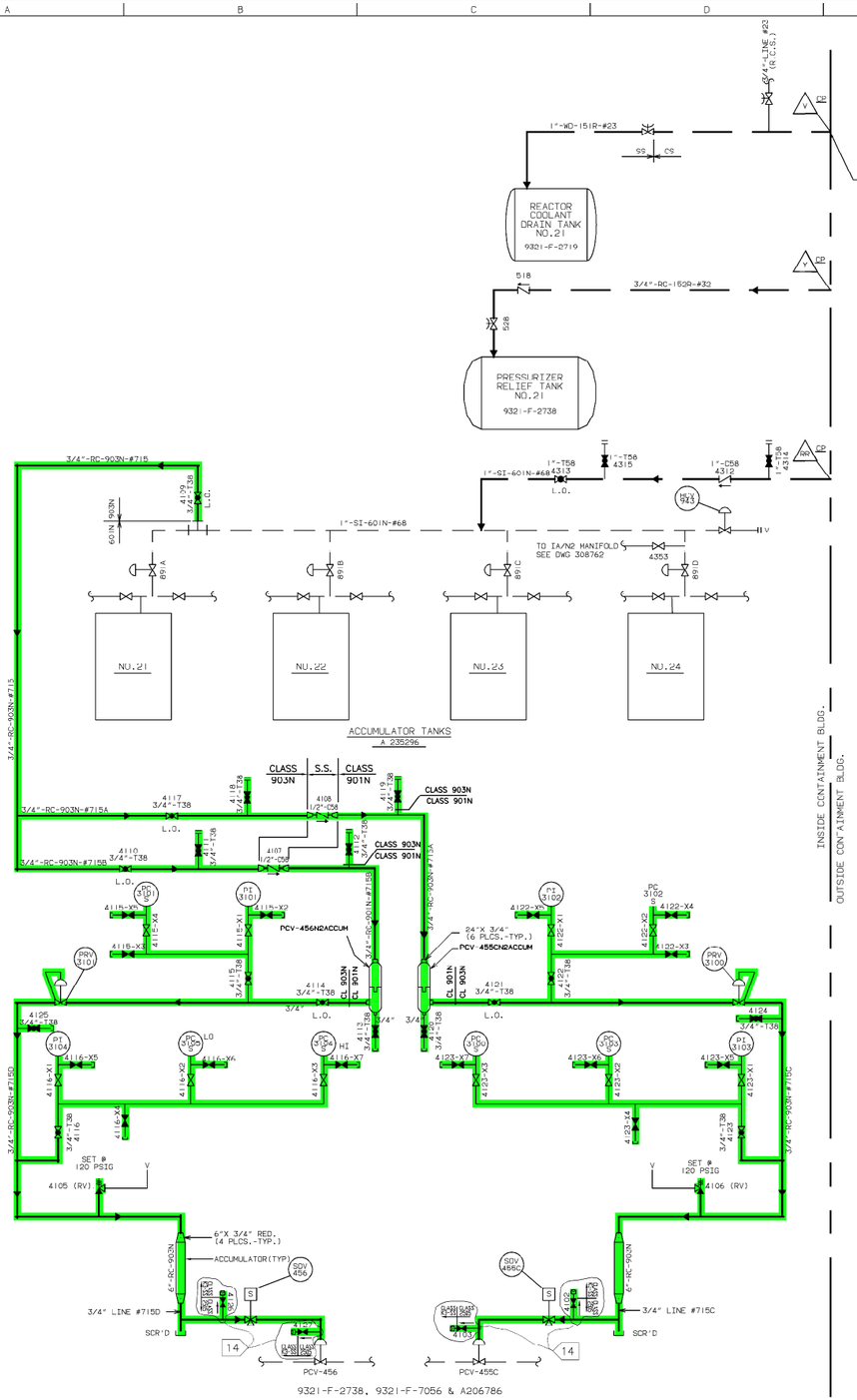
REVISIONS

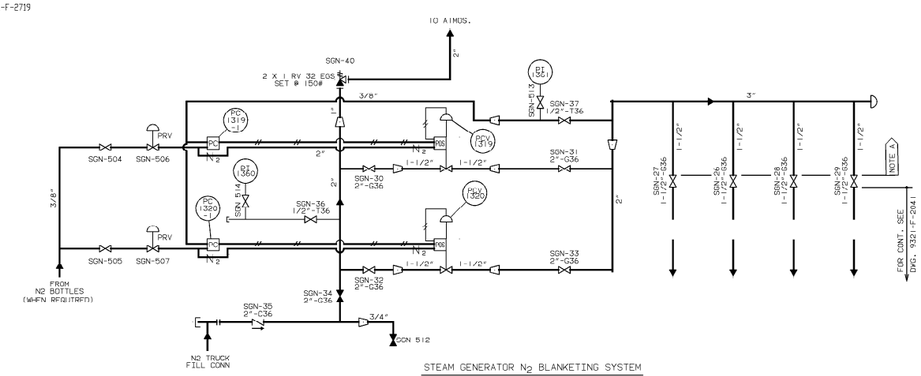
LRA-235296-0

CAD FILE LRA-235296_69.DGN

RASTER FILE 235296_69.CAL

A235306





STEAM GENERATOR N_2 BLANKETING SYSTEM

REFERENCE DRAWINGS

U.E.&C. DWG. NO.

9321-F-2730	WASTE DISPOSAL SYSTEM SH.2
9321-F-2719	WASTE DISPOSAL SYSTEM SH.1
9321-F-2738	REACTOR COOLANT SYSTEM
9321-F-2735	SAFETY INJECTION SYSTEM
9321-F-2736	CHEM. VOLUME CONTROL SYST.SH.1
9321-F-2737	CHEM. VOLUME CONTROL SYST.SH.2
9321-F-2746	ISOLATION VALVE SEAL WATER SYST.
9013-F-2016	FLOW DIAGRAM SYMBOL

EVERYTHING ON THIS DRAWING (EXCEPT FOR DASHED LINES)IS PART OF THE NITROGEN SUPPLY SYSTEM(N2).ISTED IN EXHIBIT A.CI-240-1.EXCEPT AS OTHERWISE INDICATED HEREIN.

NOTE A

THESE NITROGEN SUPPLY LINES ARE EXCLUDED FROM THE NITROGEN SUPPLY SYSTEM AS DESCRIBED IN CI-240-1.

LEGEND:

(DASH LINES)-SYS.OTHER THAN N2.
(DASH LINES)-N_2 SHOWN ON OTHER. FLOW DIAGRAM

NOTES:

1. THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN CON EDISON AS "CLASS A" ITEMS PER CI-240-1

WORK THIS DWG. WITH 9321-F-2723

THIS DWG. TO BE REVISED ONLY IN CUSTOMIZED AUTOPLANT.

REVISION					
G. BHALLA 11/18/02	THIS REVISION IS CLASS "A" PER THE QAPD. UPDATED DRAWING PER MOD #DCP-01-08241-M SMT-08241 SHEET #2 TRANSFERRED DMD335306-AE REV 01 RELEASED AS-BUILT P.N. 08241-01 D.B./G.B.	7/28/87	J.M.	F.A. W.J.KING 7-28-87	
DES		DATE	DWR.	SUPV.	DESIGN ENG. / DISC. ENG. / ENG. MGR.
ENG			REVIEW	APPROVALS	

TITLE: FLOW DIAGRAM - NITROGEN TO NUCLEAR EQUIPMENT

DRAWN BY GIBBS&HILL | SCALE NONE | REQ'D

Con Edison | STATION INDIAN POINT | DWG. NO. A235306-14 | MY

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

NITROGEN SYSTEMS AMM-10

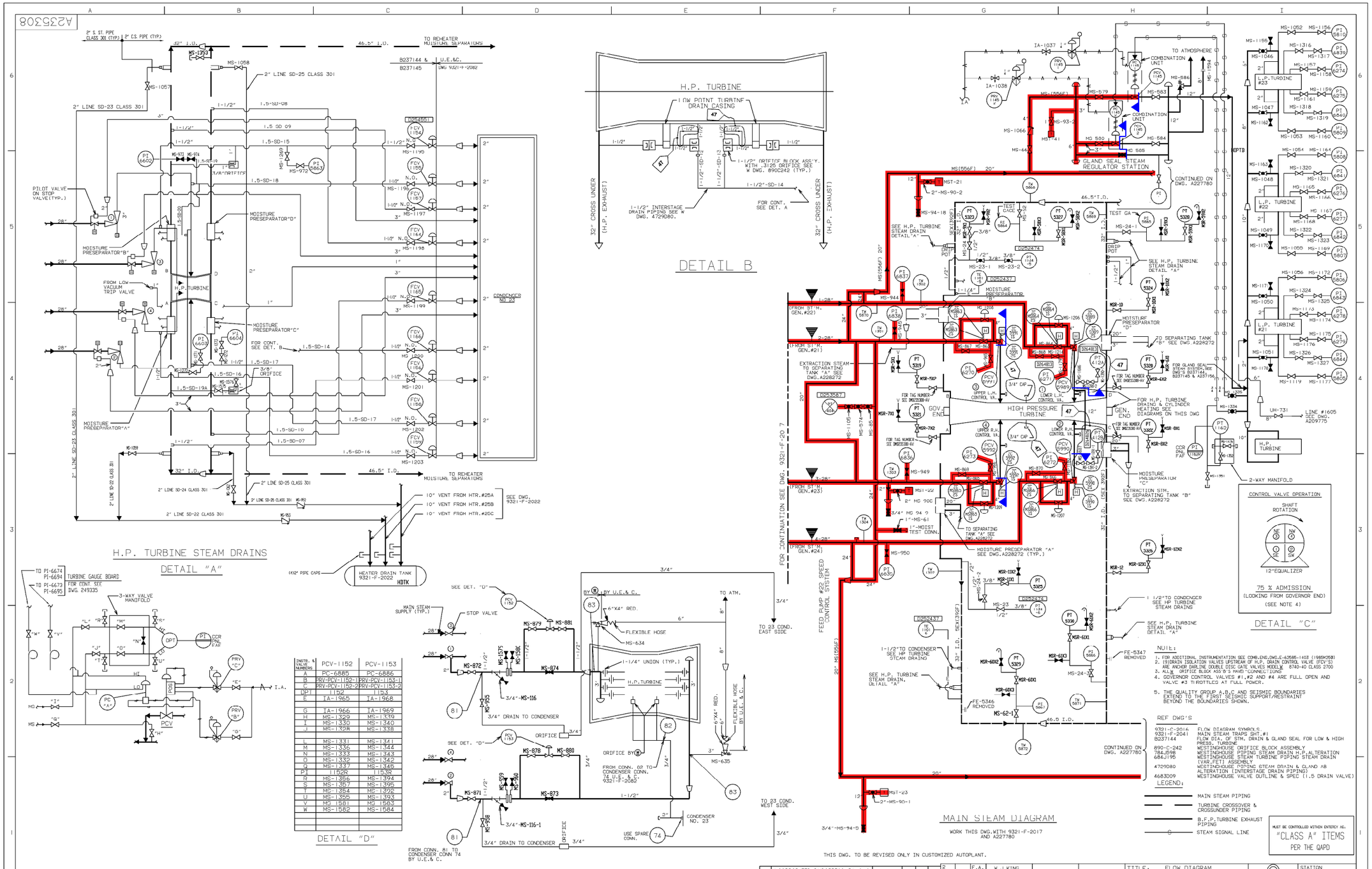
NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	5-3-06	.	.	.	.	.

REVISIONS

LRA-235306-0

CAD FILE LRA-235306_14.DGN

MASTER FILE 235306_14.CAL



SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

MAIN STEAM SYSTEM AMM-23

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	1-23-07					

REVISIONS

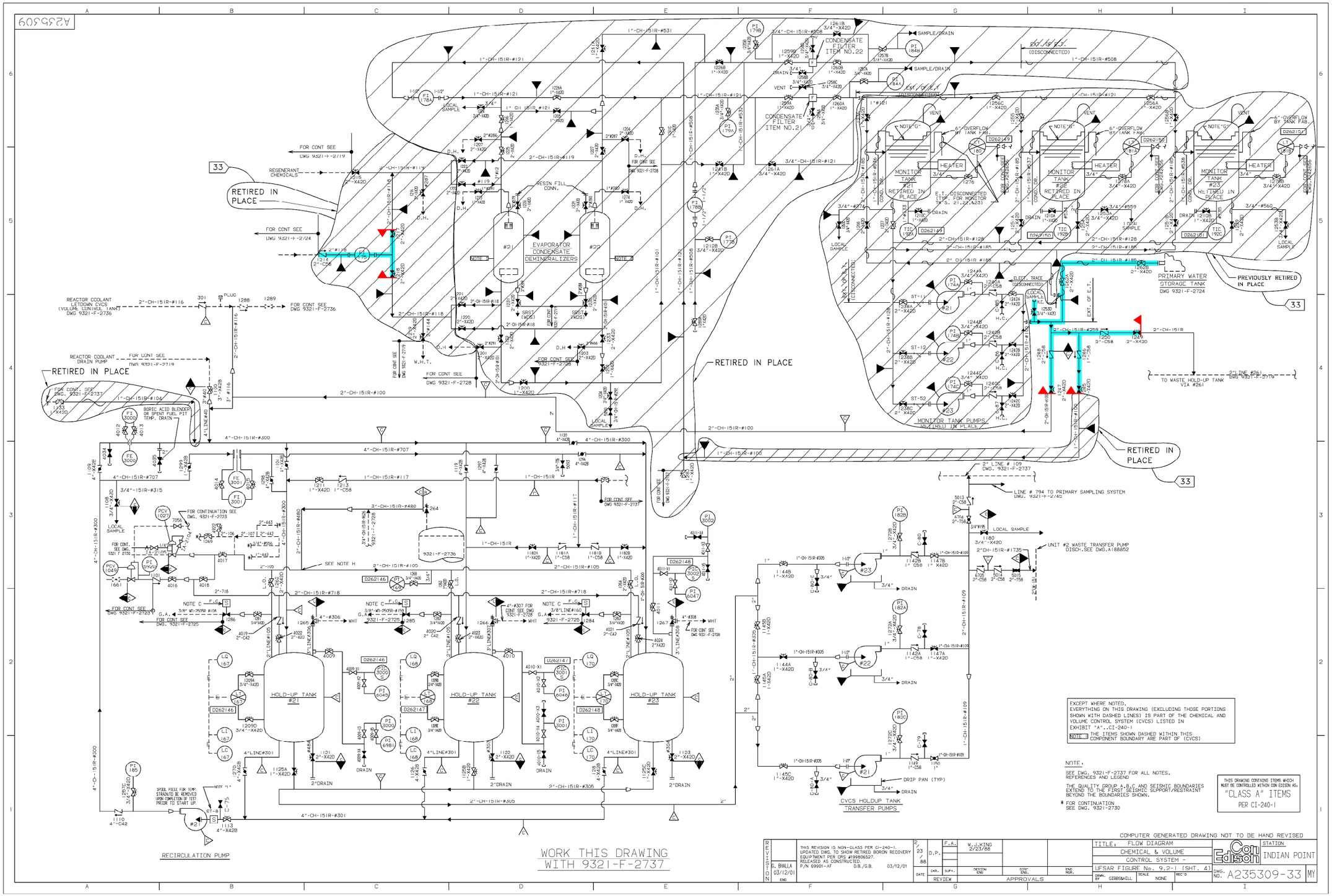
LRA-235308-0

CAD FILE LRA-235308_47.DGN

PLOTTER FILE 235308_47.CAL

MECHANICAL

A235309



EXCEPT WHERE NOTED, EVERYTHING ON THIS DRAWING (EXCLUDING THOSE PORTIONS SHOWN WITH DASHED LINES) IS PART OF THE CHEMICAL AND VOLUME CONTROL SYSTEM (CVCS) LISTED IN EXHIBIT "A", CI-240-1

NOTE 1: THE ITEMS SHOWN DASHED WITHIN THIS COMPONENT BOUNDARY ARE PART OF (CVCS)

NOTE:

SEE DWG. 9321-F-2737 FOR ALL NOTES, REFERENCES AND LEGEND

THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

* FOR CONTINUATION SEE DWG. 9321-F2730

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN CON EDISON AS: "CLASS A" ITEMS PER CI-240-1

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

0	10/12/01	G. BHALLA	THIS REVISION IS NON-CLASS PER CI-240-1. UPDATED DWG. TO SHOW RETIRED BORON RECOVERY EQUIPMENT PER CRS #199806527. RELEASED AS CONSTRUCTED. P/N 69901-AF D.B./G.B.	03/12/01	ENG

DATE	2/23/88	D.P.	F.A.	W.J.KING 2/23/88
CAR.	SURV.	DESIGN ENG.	DISC. ENG.	ENG. MGR.
REVIEW		APPROVALS		

TITLE: FLOW DIAGRAM
CHEMICAL & VOLUME
CONTROL SYSTEM -
UFSAR FIGURE No. 9.2-1 (SHT. 4)

Con Edison — STATION: INDIAN POINT

DRAWN BY: GIBBSMHILL — SCALE: NONE — REC'D — DWG. NO. A235309-33 — MY

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

PRIMARY MAKEUP WATER SYSTEM AMM-06

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	10-18-06					

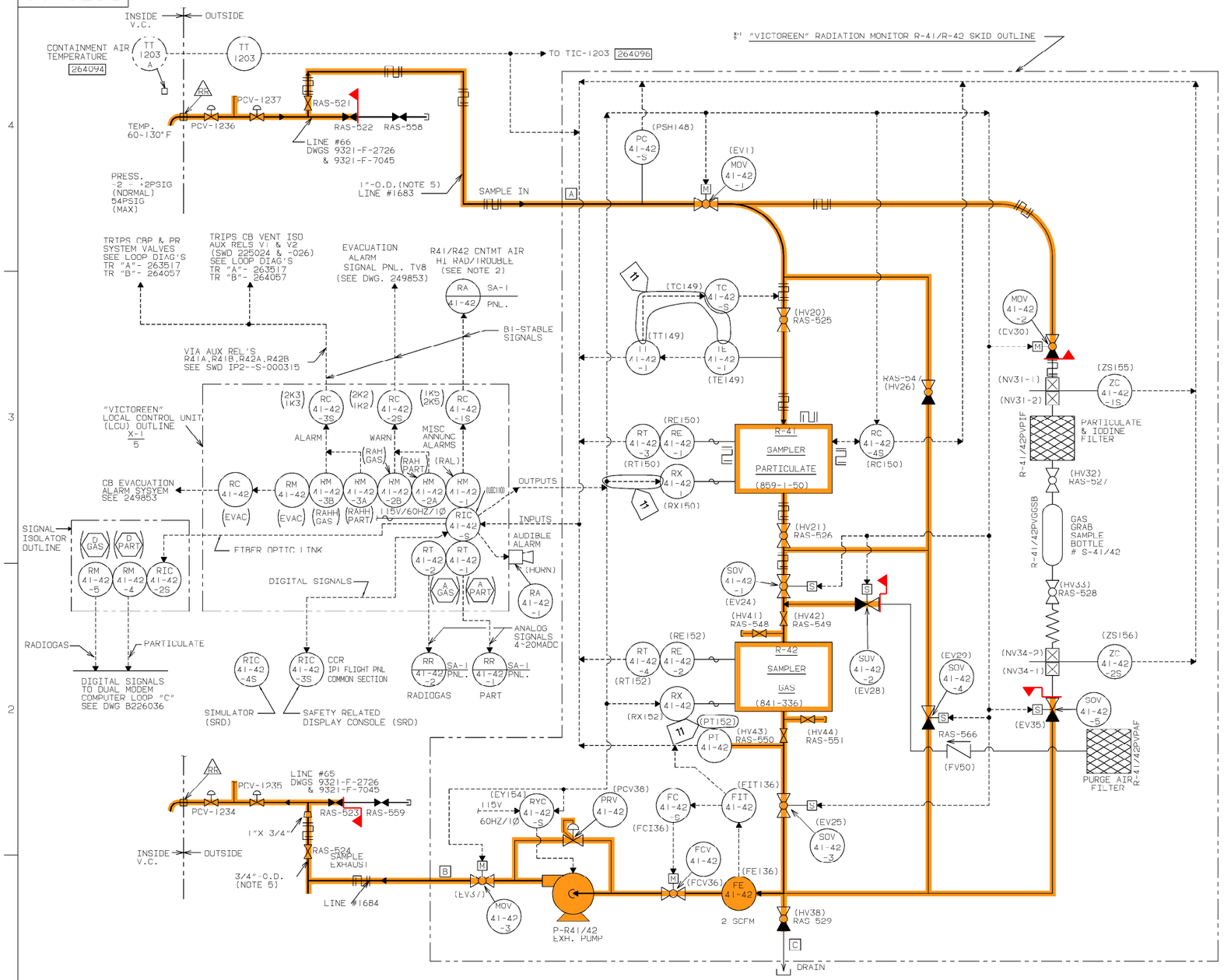
REVISIONS

LRA-235309-0

CAD FILE: LRA-235309_33.DGN

MASTER FILE: 235309_33.CAL

B238106



P & I DIAGRAM FOR CONTAINMENT AIR PARTICULATE(R-41) & RADIOGAS(R-42) RADIATION MONITORS

LEGEND:

X-1 / 2	X-INDICATES MATERIAL LIST MM 227416.01 NO. ABOVE BAR INDICATES SECTION NO. BELOW BAR INDICATES ITEM
	NORMALLY OPEN VALVE
	NORMALLY CLOSE VALVE
X	INDICATES SKID PIPING TERMINAL NO. TAKE-OFF POINTS.
	INDICATES LINES REDUNDANTLY HEAT-TRACED ELECTRICALLY
	RADIATION SENSING LINE

NOTES:

1. INSTR. & VALVE NOS. SHOWN IN PARENTHESIS ARE "VICTOREEN, INC." DEVICE DESIGNATIONS.
2. "R41/R42 CNTMT AIR HI RAD/TROUBLE" ALARM IS ENABLED BY FOLLOWING:
   WARN - SELECTED RADIATION SET POINT.
   ALARM - SAME AS WARN BUT HIGHER.

   FAULTS:

   NO CPM - MONITOR FAILURE IS NO CPM.
   LOW FLOW - LOW FLOW OR HIGH DIFFERENTIAL PRESSURE.
   TAPE TARE - PARTICULATE TAPE FILTER TEARS OR SUPPLY REEL IS EMPTY.
   TAPE LOW - ADVISORY THAT ABOUT 8 HOURS OF TAPE FILTER IS REMAINING.
   EXTERNAL HEAT TRACE FAILURE - LOSS OF POWER OR CIRCUIT CONTINUITY TO THE AIR SAMPLE INTAKE OR EXHAUST PIPING HEAT TRACE.
   LOW DELTA TEMP - SAMPLE TEMPERATURE IS LESS THAN 10°F ABOVE THE CONTAINMENT AIR TEMP. (NULLIFIED VIA MODIFICATION FIX-98-12006-1)
   CONTAINMENT HIGH PRESSURE - PRESSURE RISES ABOVE SET POINT.
3. ALL INPUT/OUTPUT VALVES ARE TERMINATED WITH "PARKER" FITTINGS.
4. SKID TUBING IS STAINLESS STEEL 3/4"x.049"WALL AND 1"x.065"WALL.
5. SAMPLE & EXHAUST TUBING EXTERNAL TO SKID OUTLINE SHALL BE 1"-O.D.x.065"WALL THICKNESS AND 3/4"-O.D.x.049"WALL THICKNESS RESPECTIVELY. MATERIAL SHALL BE SEAMLESS STN. STL. TYPE 304. ASTM A269. BRIGHT SOFT ANNEALED, SUITABLE FOR FLARING & BENDING.

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN ENTERGY AS "CLASS A" ITEMS PER THE QAPD

REFERENCE DWGS:
FOREIGN PRINTS
M. FILM 1986M03867 - P & ID

CON EDISON DRAWINGS:

9321-F-2726 - F/D PENET. & LINER WELD JOINT CHNL. PRESSURIZATION SYS.
A237159 - R-41/R-42 INSTALLATION PLAN & SECT.
B226036 - I.P. RMS COMPUTER LINK DIAGRAM
A209762 - F/D SERV. WTR. SYS-NSSS SH1 2
C249853 - WIRING DIAG. FOR CONTAINMENT EVACUATION ALARM

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

CONTAINMENT PENETRATIONS AMM-26

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION						
ENG	THIS REVISION IS CLASS 'A' PER THE QAPD. UPDATED DRAWING PER CR-IP2-2003-06791. RELEASED AS BUILT. P.N. 69901-AF RM/TC	4/20/92	FCA	W J KING 5/11/92		
I. CONEVSKI						
DCS			RS			
DATE		CKR.	SUPV.	DESIGN ENG	DISC. ENG.	ENG. MGR.
		REVIEW		APPROVALS		

TITLE: I.P. RADIATION MONITORING SYS. P. & I. DIAG. FOR MONITORS R-41/R-42.

DRWN. BY B. PIVEN | SCALE NONE | REC'D

Con Edison | STATION INDIAN POINT

DWG. NO. B238106-11 | MB

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	3-13-07					

REVISIONS

LRA-238106-0

CAD FILE LRA-238106_11.DGN
MASTER FILE 238106_11.CAL

A242656

BORIC ACID EVAPORATOR BUILDING

DWG.#A205309 (RETIRED IN PLACE)

NUCLEAR TANK PAD

WASTE HOLD-UP PIT

#22 H_2 RECOMBINER PANEL B

#21 H_2 RECOMBINER PANEL A

FAN HOUSE ELEV.90'-0"

DIESEL GENERATOR BUILDING

INST AIR FOR NUCLEAR SERVICE FOR CONT SEE DWG 9321-F-2036

#21 CHARGING PUMP ROOM

#22 CHARGING PUMP ROOM

#23 CHARGING PUMP ROOM

WDS CONTROL PANEL

INSTRUMENT AIR HEADER

NOT A LONG LIVED COMPONENT

FLEX HOSE

NITROGEN TANK

21 BORIC ACID EVAP. ROOM

TO BORIC ACID CONTROL PANEL (RETIRED IN PLACE)

TO GAS STRIPPER CONTROL PANEL (RETIRED IN PLACE)

TO DRUMMING PANEL

AIR LINE CRIMPED

TO GAS STRIPPER

WASTE GAS COMPRESSOR ROOM

3"LINE #39 INST AIR FOR NUCLEAR SERVICE

2"EMERGENCY MAKE-UP

FOR CONT SEE DWG 9321-F-2036

SEE PENETRATION & WELD CHANNEL PRESSURIZATION SYSTEM DIAG DWG 9321-F-2726

PRIMARY AUXILIARY BUILDING

WORK THIS DRAWING WITH DRAWING 9321-F-2036

NOTES:

1. THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

EVERYTHING ON THIS DRAWING IS PART OF THE INSTRUMENT AIR SYSTEM (IA) AS LISTED IN EXHIBIT A, CI-240-1, EXCEPT AS SPECIFICALLY INDICATED HEREIN:

NOTE>

7. THESE LINES ARE PART OF THE STATION AIR SUPPLY SYSTEM WHICH IS NOT LISTED IN CI-240-1.
8. THE LINES BEYOND THIS POINT ARE OUTSIDE THE INSTRUMENT AIR BOUNDARIES AS DESCRIBED IN CI-240-1 EXHIBIT "A".

NCPPS> WELD CHANNEL & PENETRATION PRESSURIZATION

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN ENTERGY AS: "CLASS A" ITEMS PER THE Q.A.P.D.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

NITROGEN SYSTEMS AMM-10

COMPRESSED AIR SYSTEMS AMM-14

NO	DESCRIPTION	DATE	BY	CHK'D	APR.
29	INCORPORATED DRN-06-02935, MMT-SC-2-006	7/14/06	JF		

REVISIONS

DATE	DCR.	SUPV.	DESIGN ENG.	ELEC. ENG.	ENG. MGR.
4/11/89			W.J.KING 4-11-89		

REVIEW — APPROVALS

TITLE: FLOW DIAG INSTRUMENT AIR
PRIMARY AUX.BLDG.DIESEL GEN.BLDG
BORID ACID EVAP.BLDG.NUCLEAR TK PAD
& WASTE HOLD-UP PIT

DRWN. BY: B.JOHN | SCALE: NONE | REC'D

Entergy Nuclear Northeast

STATION: INDIAN POINT

DWG NO. A242656 -29 | MY

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	12-1-06					

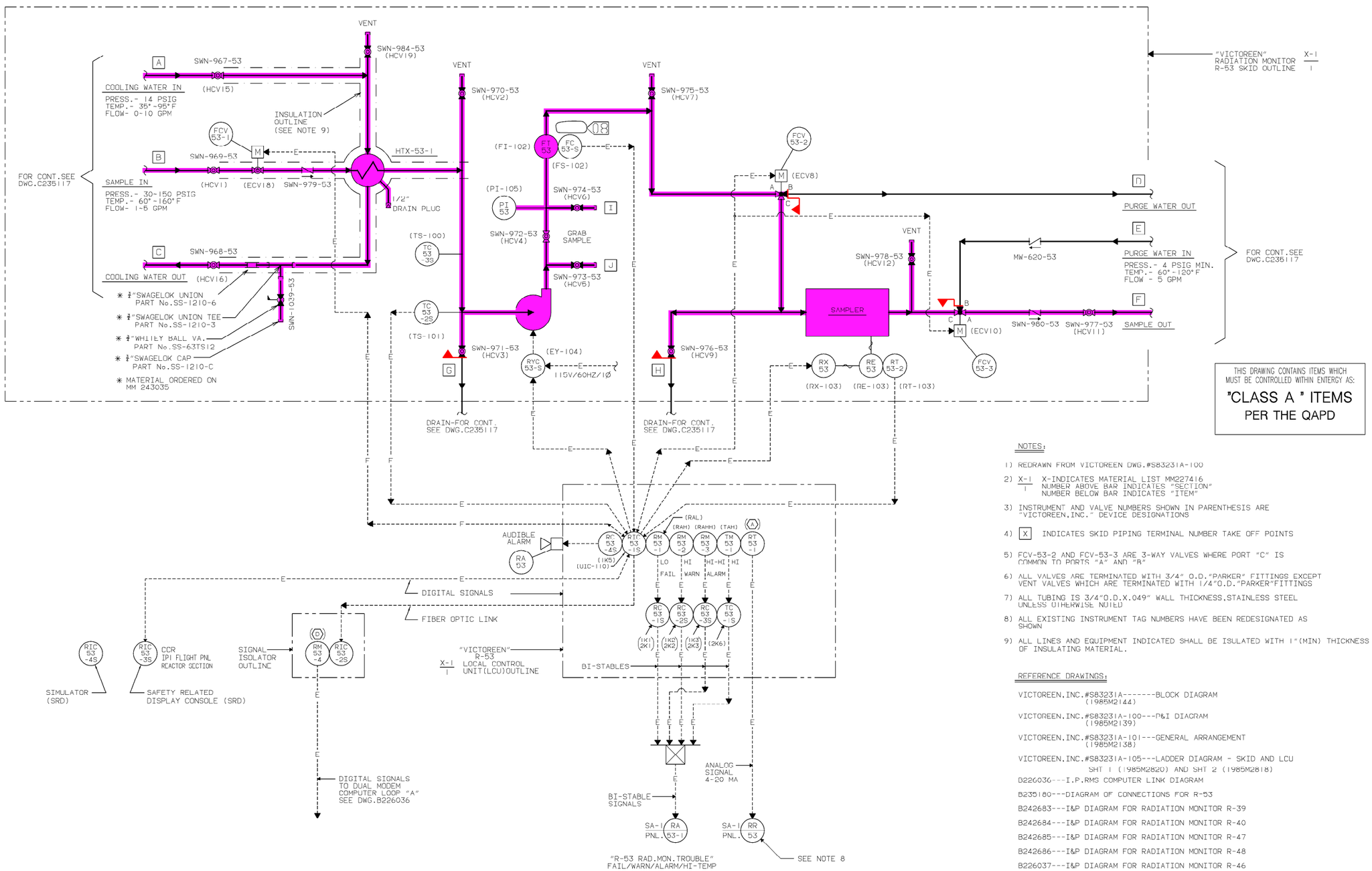
REVISIONS

LRA-242656-0

CAD FILE: LRA-242656_29.DGN

MASTER FILE: 242656_29.CAL

B242687



THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN ENTERGY AS:

"CLASS A " ITEMS PER THE QAPD

NOTES:

1) REDRAWN FROM VICTOREEN DWG.#S83231A-100
2) X-1 / 1 — X-INDICATES MATERIAL LIST MM227416; NUMBER ABOVE BAR INDICATES "SECTION"; NUMBER BELOW BAR INDICATES "ITEM"
3) INSTRUMENT AND VALVE NUMBERS SHOWN IN PARENTHESIS ARE "VICTOREEN,INC." DEVICE DESIGNATIONS
4) [X] INDICATES SKID PIPING TERMINAL NUMBER TAKE OFF POINTS
5) FCV-53-2 AND FCV-53-3 ARE 3-WAY VALVES WHERE PORT "C" IS COMMON TO PORTS "A" AND "B"
6) ALL VALVES ARE TERMINATED WITH 3/4" O.D."PARKER" FITTINGS EXCEPT VENT VALVES WHICH ARE TERMINATED WITH 1/4"O.D."PARKER"FITTINGS
7) ALL TUBING IS 3/4"O.D.X.049" WALL THICKNESS.STAINLESS STEEL UNLESS OTHERWISE NOTED
8) ALL EXISTING INSTRUMENT TAG NUMBERS HAVE BEEN REDESIGNATED AS SHOWN
9) ALL LINES AND EQUIPMENT INDICATED SHALL BE ISULATED WITH 1"(MIN) THICKNESS OF INSULATING MATERIAL.

REFERENCE DRAWINGS:

VICTOREEN,INC.#S83231A-------BLOCK DIAGRAM (1985M2144)
VICTOREEN,INC.#S83231A-100---P&I DIAGRAM (1985M2139)
VICTOREEN,INC.#S83231A-101---GENERAL ARRANGEMENT (1985M2138)
VICTOREEN,INC.#S83231A-105---LADDER DIAGRAM - SKID AND LCU SHT 1 (1985M2820) AND SHT 2 (1985M2818)
B226036---I.P.RMS COMPUTER LINK DIAGRAM
B235180---DIAGRAM OF CONNECTIONS FOR R-53
B242683---I&P DIAGRAM FOR RADIATION MONITOR R-39
B242684---I&P DIAGRAM FOR RADIATION MONITOR R-40
B242685---I&P DIAGRAM FOR RADIATION MONITOR R-47
B242686---I&P DIAGRAM FOR RADIATION MONITOR R-48
B226037---I&P DIAGRAM FOR RADIATION MONITOR R-46

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

SERVICE WATER SYSTEMS AMM-12

REVISION								
P.GROPP 7/21/03 DES	THIS REVISION IS NON CLASS PER QAPD. REVISED DWG. PER CRS 199900877, CA # 04 RELEASED FOR RECORD.	11/28/88	N.D.	F.A. W.J.KING 11-28-88			TITLE: P&I DIAGRAM FOR RADIATION MONITOR R-53 FAN COOLER SERVICE WATER RETURN (DOWNSTREAM)	Con Edison STATION INDIAN POINT
ENG	P.N.69901-AF OG/DM	DATE	CKR.	SUPV.	DESIGN ENG	DISC. ENG.	ENG. MGR.	DRAWN BY G.KOVACS · SCALE NONE · REC'D · DWG. NO. B242687-08 · MB
			REVIEW		APPROVALS			

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	12-1-06					

REVISIONS

LRA-242687-0

CAD FILE LRA-242687_08.DGN

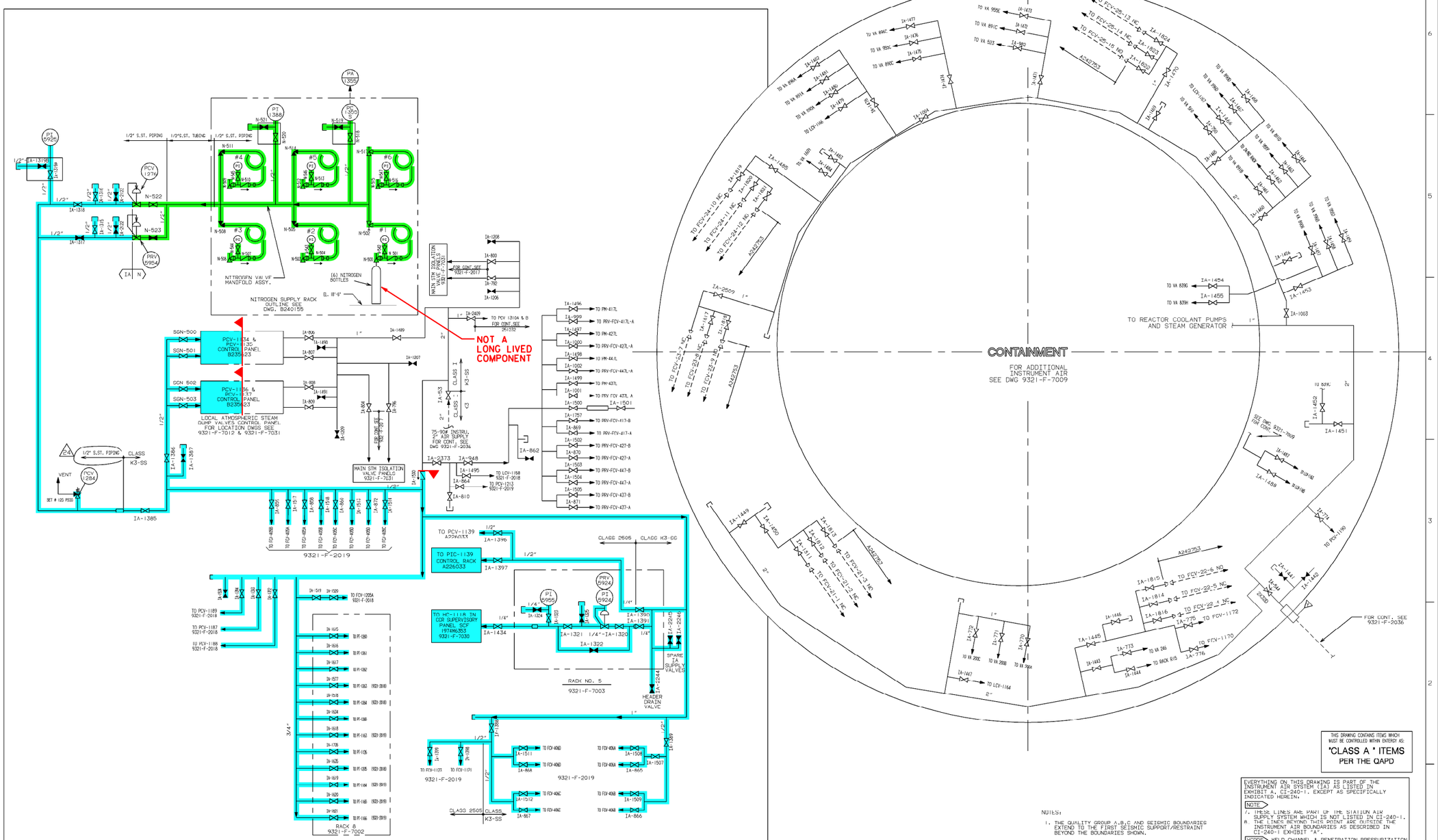
MASTER FILE 242687_08.CAL

MECH

A242688

REV	DESCRIPTION	DATE	BY	CHK'D	APP.
24	INCORPORATED DRN-05-04127, FR IP2-05-14804		GH		

REVISIONS



SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

NITROGEN SYSTEMS AMM-10

COMPRESSED AIR SYSTEMS AMM-14

THIS DRAWING CONTAINS ITEMS WHICH MUST BE CONTROLLED WITHIN ENTERGY AS:
'CLASS A ' ITEMS
PER THE QAPD

EVERYTHING ON THIS DRAWING IS PART OF THE INSTRUMENT AIR SYSTEM (IA) AS LISTED IN EXHIBIT A, CI-240-1, EXCEPT AS SPECIFICALLY INDICATED HEREIN.

NOTE

A. THESE LINES ARE PART OF THE STATION AIR SUPPLY SYSTEM WHICH IS NOT LISTED IN CI-240-1.
B. THE LINES BEYOND THIS POINT ARE OUTSIDE THE INSTRUMENT AIR BOUNDARIES AS DESCRIBED IN CI-240-1 EXHIBIT "A".

MCPPS WELD CHANNEL & PENETRATION PRESSURIZATION

NOTES:

1. THE QUALITY GROUP A,B,C AND SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

WORK THIS DRAWING WITH DRAWING 9321-F-2036

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

4/11/89	D.M.	W.J.KING 4/11/89		
DATE	CKD.	SUPV.	DESIGN ENG.	STRC. ENG. / ELEC. ENG.
	REVIEW		APPROVALS	

TITLE: FLOW DIAGRAM INSTRUMENT AIR CONTAINMENT BLDG & AUXILIARY BLR FEED PUMP BLD

DRWN. BY B.JOHN | SCALE NONE | REQ'D

Entergy Nuclear Northeast

STATION INDIAN POINT

DWG. NO. A242688-24 MY

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	11-2-06	.	.	.	.	.

REVISIONS

LRA-242688-0

CAD FILE LRA-242688_24.DGN

RASTER FILE 242688_24.CAL

A250073

REV	DESCRIPTION	DATE	BY	CHK'D	APP.
6	INCORPORATED DRN-05-04715, ER-04-2-032		RM	RM	

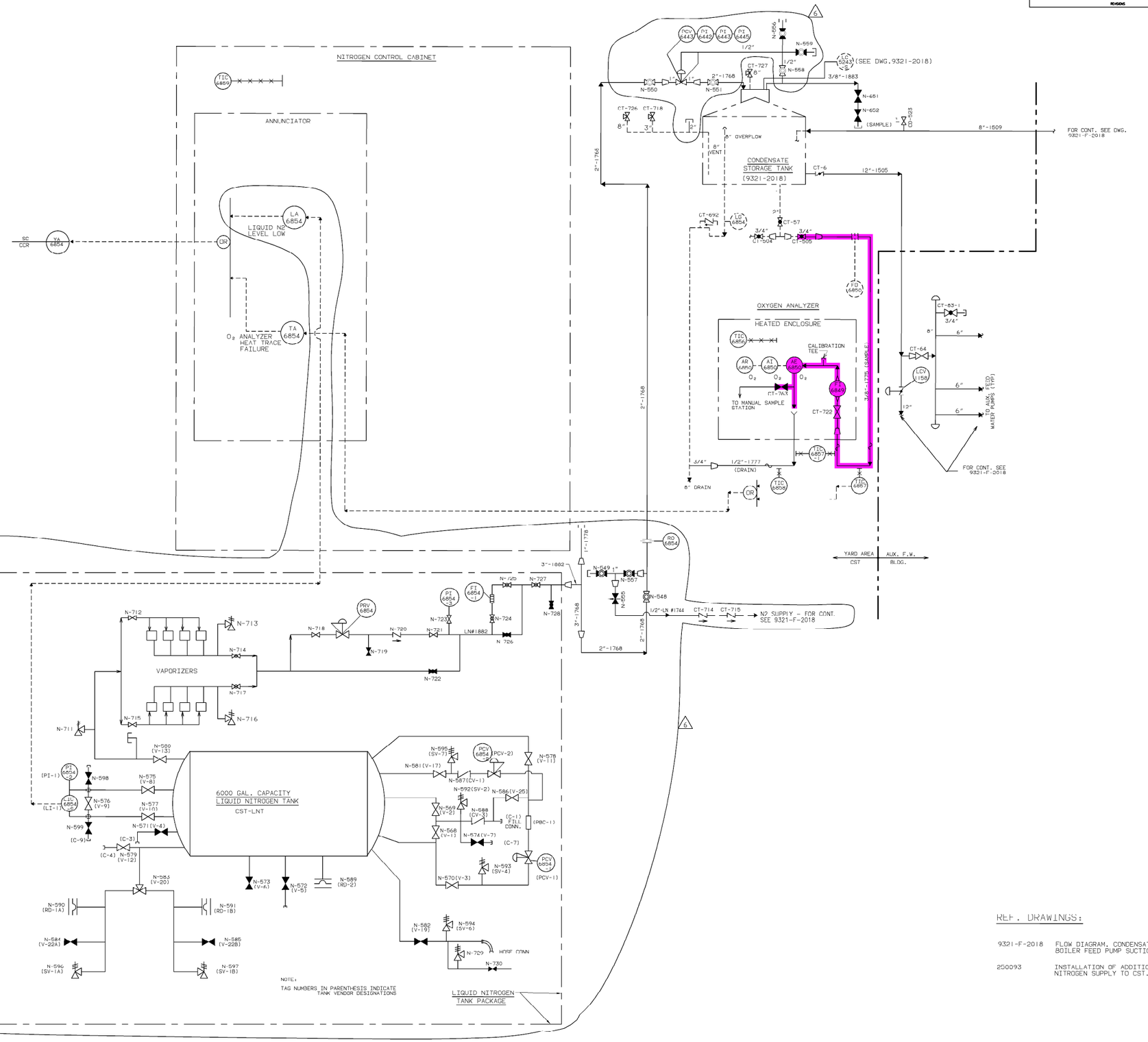
REVISIONS

REVISION
USE .1 SIZE TEXT ONLY

M.ENTENBERG 03
THIS REV. IS NON-CLASS PER CI-240-1 UPDATED DWG. IN RESPONSE TO OIR 93-09-497. AND OIR 93-09-498. AND TO SHOW WORK DONE ON MOD.PROC. FPX-92-07537-F PKG. NO. 9075 RELEASE AG CONSTRUCTCD
P.N. 07537-92
BK/PFS

M.ENTENBERG 04
THIS REV. IS NON-CLASS PER CI-240-1 UPDATED DWG. PER OIR-95-06-654-01 PKG. NO. 0-281. RELEASE AG CONSTRUCTED
P.N. 69982-QA
BK/PFS

M.ENTENBERG 05
THIS REV. IS NON-CLASS PER CI-240-1 UPDATED DWG. TO SHOW WORK DONE ON MOD.PROC. FPX-94-10017-F PKG R #242 RELEASE AG CONSTRUCTCD
P.N. 10017-94
BK/GH



REF. DRAWINGS:

9321-F-2018	FLOW DIAGRAM, CONDENSATE BOILER FEED PUMP SUCTION
250093	INSTALLATION OF ADDITIONAL NITROGEN SUPPLY TO CST.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

AUXILIARY FEEDWATER SYSTEM AMM-24

REVISION SIGNATURES		
REV	DES	ENG
05		

DWG. NO. A250073-6

DWG. SIZE | DWG. TYPE

Entergy Nuclear Northeast — STATION: INDIAN POINT

BORO: WESTCHESTER

TITLE: LOOP DIAG N02 SUPPLY & O2 ANALYZER COND. STOR TANK LOOP 6854

APPROVALS

ENGINEERING

ENGINEER MANAGER: M.ENTENBERG

DISCIPLINE ENGINEER: A.BEKKERMAN

DESIGN

DESIGN MANAGER:

DESIGN SUPERVISOR:

DRAWN BY: GH

DESIGN CHECKER: PFS

SCALE: | DISCIPLINE CODE: MB

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	10-23-06					

REVISIONS

LRA-250073-0

CAD FILE: LRA-250073_06.DGN

MASTER FILE: 250073_06.CAL

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