MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
MOV30A,B	VV1000-A-3G	4"-6" 10"-8"	2
MOV77A,B	VV1000-A-3G	4"-6" 24"-6"	2
MOV599	VVF000-B-3RQ	30"	1
MOV93A,B	VVF000-B-3RQ	24"	2
MOVV936 MOVV936	SAMESE RMDFE GT VGF012-Y-4FO	42"	1
V182,183,185,399	VOT020-C-4	3/4"	6
V933,934	VCT020-C-4	3"	1
V184	VCT020-C-4	3"	1
V189,191,9148,B V972A,B,973A,B V974A,B,975A,B V976A,B,977A,B V978A,B	VOS060-D-3	3/4"	18
V3808,1808,1809	VCF000-C-3RQ	36"	3
V1090	VCW015-P-3K	6"	1
V720A,B	VCS060-H-3	1"	2
V980,982	VCW015-P-3K	16"	2
V727,729,746,746A,750 V763,767,681,686	VOS060-D-4	3/4"	9
V748A,B,667A,B	VCS060-C-3	3"	4
V958	VDW015-CA-4	3/4"	1
V983,984	VV1015-F-4Q	16"	2
V985	VVF000-F-4RQ	16"	1
V986,929	VCT020-C-4	3/4"	2
V987,988,938A,B	BY VENDOR	3/4"	4
V911,908,992,995	VVF000-B-3RQ	24"	4
V935A,B,913A,B	VOS060-D-3	1"	4
V927	VVF000-F-4RQ	12"	1
V928	VV1015-F-4Q	24"	1
V1077,1078	VOS060-D-3	3/4"	2
V959A,B	VVF000-B-3RQ	36"	2
V996A	VDW030-C-2K	12"	1
V996B	VDW015-P-3K	12"	1
V932	VVF000-B-4RQ	24"	1
FV47A,B,54A,B	VVF000-B-3RQ	36"	4
V1053,1053	BY VENDOR	1 1/2"	2
V1054,1055	BY VENDOR	1 1/2"	2
V1180,V1181	VCS060-C-3	3/4"	2
V1048,V1041,1186,1187 V1118,V1111	VOS060-E-3	3/4"	6
V1184,1185,V1188,V1189	VBF030-D-3	2"	4
V1226,1227	BY VENDOR	1"	2
V1224,1225	BY VENDOR	1 1/2"	2

LR NOTE:
PLEASE REFER TO DRAWING LR-000 SHEETS 2A THROUGH 2F FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

NOTES:
1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2SWP-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN. AN ASTERISK (✱) WILL REPLACE THE DASH (-) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE A PART OF NUCLEAR SAFETY FEATURES SYSTEM.
2. TEMPERATURE ELEMENTS LOCATED IN 2" STILL WELLS WHERE NOTED.
3. ALL PIPING IS CLASS 151 UNLESS SHOWN OTHERWISE.
4. ALL PRESSURE, DRAIN, VENT, SAMPLE, FLOW AND CAPPED CONNECTIONS ARE 3/4", LEVEL SWITCH AND THERMOWELL ARE 1" UNLESS SHOWN OTHERWISE.
5. TEMP CONNECTIONS TE145A AND TE145B ARE 1 1/4"
6. FOR DETAILS OF PIPING DESIGN FOR THERMOWELL CONNECTIONS SEE DESIGN DIVISION STANDARD 12177-C-60A-1.
7. 2SWP-CE144A & B ARE EACH TO BE INSTALLED IN A RUN END OF A TEE, FACING THE DIRECTION OF FLOW. FLOW TO BE FROM OPPOSITE RUN END AND THROUGH BRANCH OF TEE.
8. LIQUID RADWASTE TO DISCHARGE INTO MAIN FLOW STREAM.
9. THIS IS A "Y" TYPE MOTOR OPERATED SIAMESE KNIFE GATE VALVE. FLOW IS NORMALLY TO THE LAKE EXCEPT DURING BRIEF PERIODS OF FISH SAMPLING. VALVE IS PROVIDED WITH TWO MOTOR OPERATORS. THE VALVE FLANGE MATERIAL IS ASTM A 516.
10. REMOVABLE SECTION OF PIPE FOR CLEANING.
11. PERFORATED TEMPERING PIPE TO HAVE A TOTAL OF 48 1" DIA HOLES SPACED AT 4'-1/2 "C.C. IN THE DOWNSTREAM DIRECTION, ONE ROW IN THE HORIZONTAL PLANE AND ONE ROW 30 DEG UPWARD FROM THE HORIZONTAL.
12. VALVES 2SWP-V182, 299, 933, AND 934 REMAIN CLOSED DURING NORMAL OPERATION AND ARE PROVIDED FOR TESTING PURPOSES ONLY.
13. TRAVELING WATER SCREEN PIPING SHOWN ON P10-12 SERIES.
14. LINES 2-SWP-030-422-3(B-) AND 2-SWP-030-423-3(A-) TERMINATE IN THE DISCHARGE BAY AT EL. 279'-2".
15. THE RADIATION MONITOR VENDOR WILL SUPPLY 3/4" STAINLESS STEEL CONNECTION TO 2SWPRCAB146A & B.
16. ⊠ DENOTES EQUIPMENT SUPPLIED BY ANNUBAR VENDOR.
17. 2-SWP-AE143A,B AND 2SWP-CE144A,B ARE ABANDONED IN PLACE, DE-ENERGIZED, AND HAVE COMPUTER POINTS DELETED.
18. ENVIRONMENTAL SAMPLE TAPS REMOVED AND VALVES 2SWPBV1877 AND 2SWPBV1878 CLOSED, REMAINING PIPING ABANDONED IN PLACE.
19. SPECIALLY MADE QUILL DESIGN (SEE DRAWING EP-908A FOR DETAILS.

ALL LINES & EQUIPMENT INSIDE THIS BOUNDARY ARE ABANDONED IN PLACE.

NON-SAFETY RELATED
QUALITY RELATED
SAFETY RELATED
(REF. SAR FIG. 9.2-1h & ISPT-11H)

THIS DRAWING WAS PRODUCED ELECTRONICALLY, DO NOT MAKE ANY CHANGES MANUALLY.

MF	REV	DATE	DESCRIPTION OF REVISION	M.O.	DFT	DES	CHKD	ENG	ELEC	MECH	STR

Constellation Energy Group
NINE MILE POINT NUCLEAR STATION UNIT 2 - SCRIBA, N.Y.

PIPING & INSTRUMENTATION DIAGRAM
SERVICE WATER SYSTEM

SCALE NONE | DRAWING NO LR-11H-0