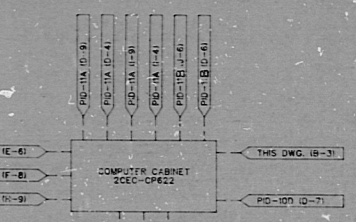


MARK	VALVE DESCRIPTION	SIZE	NO OF VALVES
MOV358	V1000-A-30	3"	2
MOV359	V1000-B-30	3"	2
MOV360	V1000-C-30	3"	2
MOV361	V1000-D-30	3"	2
MOV362	V1000-E-30	3"	2
MOV363	V1000-F-30	3"	2
MOV364	V1000-G-30	3"	2
MOV365	V1000-H-30	3"	2
MOV366	V1000-I-30	3"	2
MOV367	V1000-J-30	3"	2
MOV368	V1000-K-30	3"	2
MOV369	V1000-L-30	3"	2
MOV370	V1000-M-30	3"	2
MOV371	V1000-N-30	3"	2
MOV372	V1000-O-30	3"	2
MOV373	V1000-P-30	3"	2
MOV374	V1000-Q-30	3"	2
MOV375	V1000-R-30	3"	2
MOV376	V1000-S-30	3"	2
MOV377	V1000-T-30	3"	2
MOV378	V1000-U-30	3"	2
MOV379	V1000-V-30	3"	2
MOV380	V1000-W-30	3"	2
MOV381	V1000-X-30	3"	2
MOV382	V1000-Y-30	3"	2
MOV383	V1000-Z-30	3"	2
MOV384	V1000-AA-30	3"	2
MOV385	V1000-AB-30	3"	2
MOV386	V1000-AC-30	3"	2
MOV387	V1000-AD-30	3"	2
MOV388	V1000-AE-30	3"	2
MOV389	V1000-AF-30	3"	2
MOV390	V1000-AG-30	3"	2
MOV391	V1000-AH-30	3"	2
MOV392	V1000-AI-30	3"	2
MOV393	V1000-AJ-30	3"	2
MOV394	V1000-AK-30	3"	2
MOV395	V1000-AL-30	3"	2
MOV396	V1000-AM-30	3"	2
MOV397	V1000-AN-30	3"	2
MOV398	V1000-AO-30	3"	2
MOV399	V1000-AP-30	3"	2
MOV400	V1000-AQ-30	3"	2
MOV401	V1000-AR-30	3"	2
MOV402	V1000-AS-30	3"	2
MOV403	V1000-AT-30	3"	2
MOV404	V1000-AU-30	3"	2
MOV405	V1000-AV-30	3"	2
MOV406	V1000-AW-30	3"	2
MOV407	V1000-AX-30	3"	2
MOV408	V1000-AY-30	3"	2
MOV409	V1000-AZ-30	3"	2
MOV410	V1000-BA-30	3"	2
MOV411	V1000-BB-30	3"	2
MOV412	V1000-BB-30	3"	2



- NOTES:
1. ALL INSTRUMENT AND EQUIPMENT MARKINGS TO BE PRINTED WITH "2500" EXPERT WHERE A DIFFERENT PREFIX IS SHOWN AN ASTERISK IN ALL REPLACE THE SIGN IN IN PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE A PART OF NUCLEAR SAFETY FEATURES SYSTEM.
 2. TEMPERATURE ELEMENTS LOCATED IN 2" STEEL WELLS WHERE NOTED.
 3. ALL PIPING IS CLASS 15 UNLESS SHOWN OTHERWISE.
 4. ALL PRESSURE, DRINK, VENT, SAMPLE, FLOW AND GAGED CONNECTIONS ARE 3/4" LEVEL SWITCH AND THERMOWELL ARE 1" UNLESS SHOWN OTHERWISE.
 5. LAMP CONNECTIONS (HESA AND YEA450) ARE 1/2".
 6. FLOW DETAILS OF PIPING DESIGN FOR THERMOWELL CONNECTIONS SEE DESIGN DIVISION STANDARD D277-K-88-1.
 7. 25WP-C244A & B ARE EACH TO BE INSTALLED IN AN AREA END OF A TEE, FACING THE DIRECTION OF FLOW, TO BE FROM OPPOSITE END AND THROUGH BRANCH OF TEE.
 8. LEAD INDUCTIVE TO DISCHARGE WITH MAIN FLOW STREAM.
 9. THIS IS A "Y" TYPE MOTOR OPERATED GATE VALVE. GATE IS FULLY OPEN NORMALLY TO THE LAKE EXCEPT DURING SWEET PERIODS OF FISH SAMPLING. VALVE IS PROVIDED WITH TWO MOTOR OPERATORS. THE VALVE FLANGE MATERIAL IS A316L.
 10. REMOVABLE SECTION OF PIPE FOR CLEANING.
 11. PERFORATED TAMPING PIPE TO HAVE 2 ROWS OF 40 # 5/16 HOLES SPACED AT 4" O.C. TO THE DOWNSTREAM SECTION, ONE ROW IN THE HORIZONTAL PLANE AND ONE ROW 30 DEG UPWARD FROM THE HORIZONTAL.
 12. VALVES 25WP-001-514, 25WP-002-514, AND 25WP-003-514 ARE TO BE OPERATED DURING NORMAL OPERATION AND ARE PROVIDED FOR TEST PURPOSES ONLY.
 13. THERMOWELL WATER SAMPLES TO BE TAKEN FROM 1" TO 2" SERVICE.
 14. LINES 25WP-003-514-3B AND 25WP-003-514-3A-1 TO TERMINATE IN THE BRACKETED MOTOR VENDOR WILL SUPPLY 3/4" STAINLESS STEEL CONNECTION TO COMPANION A & B.
 15. 25WP-001-514 AND 25WP-002-514 ARE ABANDONED IN PLACE, DESERIALIZED, AND HAVE COMPUTER POINTS DELETED.

DOCUMENT USER: CONSULT DIS TO OBTAIN LATEST APPLICABLE DOCUMENT INFORMATION.

RECEIVED
NUCLEAR SAFETY RELATED
QA CAT I, II
JUL 30 1987
STONE & WEBSTER
CONTROL LEVEL

TI APERTURE CARD
PIPING & INSTRUMENTATION DIAGRAM
SERVICE WATER
SYSTEM
MNE MILE POINT NUCLEAR STATION-UNIT 2
NIAGARA MOHAWK POWER CORPORATION
STONE & WEBSTER ENGINEERING CORPORATION
DRAWING 12177-PID-111-7
REVISIONS BY E.F. O'ROURKE
DESIGNED BY E.F. O'ROURKE
CHECKED BY R.A. SALVER

NO.	DESCRIPTION	DATE		BY	CHECKED BY	REVISION
		REV.	DATE			
1	ISSUED FOR CONSTRUCTION	1	7/23/87	E.F. O'ROURKE	R.A. SALVER	
2	ISSUED FOR CONSTRUCTION	2	7/23/87	E.F. O'ROURKE	R.A. SALVER	
3	ISSUED FOR CONSTRUCTION	3	7/23/87	E.F. O'ROURKE	R.A. SALVER	
4	ISSUED FOR CONSTRUCTION	4	7/23/87	E.F. O'ROURKE	R.A. SALVER	
5	ISSUED FOR CONSTRUCTION	5	7/23/87	E.F. O'ROURKE	R.A. SALVER	
6	ISSUED FOR CONSTRUCTION	6	7/23/87	E.F. O'ROURKE	R.A. SALVER	

PDR RIDS

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