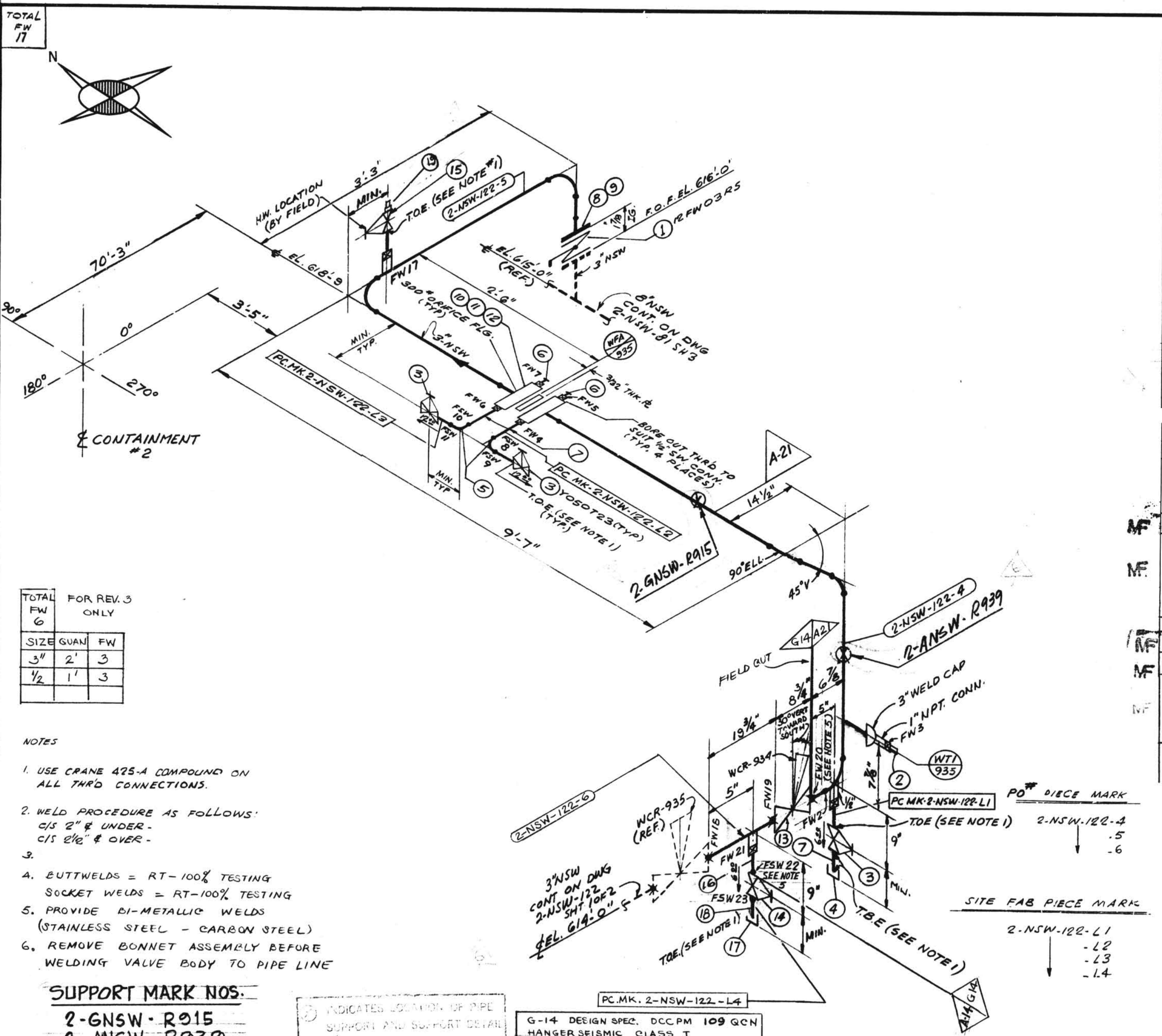

TOTAL FW 6	FOR REV. 3 ONLY	
SIZE	QUAN	FW
3"	2'	3
1/2	1'	3

NOTES

1. USE CRANE 425-A COMPOUND ON ALL THR'D CONNECTIONS.
2. WELD PROCEDURE AS FOLLOWS: C/S 2" ¢ UNDER - C/S 2½" ¢ OVER -
3.
4. BUTTWELDS = RT-100% TESTING SOCKET WELDS = RT-100% TESTING
5. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL - CARBON STEEL)
6. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE

SUPPORT MARK NOS.

2-GNSW-R915
2-ANSW-R939

SIZE	QUAN.	FW
3"	20'	3
1"	—	2
1/2"	3'	12

ISO SHT. NO. 2123

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	1	3"	125# C.I. WAFER BUTTERFLY VA	12FW03RS	
	2	1	1"	BI-METAL THERM. WELL	WTI-935	
	3	3	½"	200# SCR'D. GLOBE VA. BRASS OR BRONZE	YO50723	
	4	1	½"	3000# SCR'D CAP CS.	A-181 GR I OR II	
	5	2	½"	3000# S.W C.S. 90° ELL		
	6	2	½"	3000# S.W. PLUG C.S.		
	7	AS REQ'D	½"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR. B	
	8	4	5/8"ɸ	5" LG. HEX. HD. MACH. BOLT	A-307 GR. B	
	9	4	5/8"	HEAVY HEX. NUT CL. 2 TOL.		
	10	2	3"	1/8" THK. SPIRAL WOUND FLEXITALLIC GASKET STYLE CG TYP 304		
	11	8	3/4"ɸ	4¼" LG. STUD BOLT	A-193 GR. B7	
	12	16	3/4"	HEAVY HEX. NUT	A-194 GR. 2H	
04	13	1	3"	B.W. DIAPH. CONTROL VA SS	WCR-934	
	14	1	½"	600# S.W. C.S. GLOBE VALVE	Y-050T36	
01	15	1	1"	200# SCR'D. GLOBE VA. BRASS OR BRZ	Y-100T23	
04	16	AS REQ'D	½"	PIPE (SCH-40S) SMLS S.S.	A-312 GR. TP 304	
	17	1	½"	3000# SCR'D. CAP, C.S.	A-181 GR. I OR II	
	18	AS REQD	½"	PIPE (SCH. 80) SMLS., C.S.	A-106 GR. B	
01	19	1	1"	3000# THR'D. PLUG, C.S.	A-181 GR. I OR II	

REVISION RECORD

NO.	DATE	DR. CHK	DESCRIPTION	REMARKS
1	1-20-76	DR B.R	REVISED BY AEP DESIGN: PER RFC-DC-12-671: ADDED; 3" B.W CONTROL VA. WCR-934, ½" DRAIN-VALVE No. Y-050T36, 1" VENT-VALVE No. Y-100T23	ACTION REQ'D.
2	9/12/78	GP LB	AS PER ADM-MC-0312 ADDED AS BUILT DIMENSIONS AND NOTE 3.	NO ACTION REQ'D
3	9/11/81	D.L DR	PER RFC-DC-12-2549 ADDED SPEC. G-14 PCMK # 6, FIELD WELD BOX, NOTES 4, 5 & 6, FIELD WELDS 18 TO 21 FSW 22 & 23, ITEM NOS. 16 TO 18 IN B/M PCMK L4, REVISED ITEM 13 IN B/M, DIM'S. REMOVED DIM'S. FROM AS BUILT BOXES.	FIELD ACTION REQ'D
4	9/23/81	K.A. DLF	PER RFC DC-12-2549 ROTATED VALVE ACTUATOR AT 30° VERT TOWARD SOUTH.	FIELD ACTION REQ'D.
5	[illegible]	ME JM	PER RFC-DC-12-2549 LOCATED WTI-935	NO FIELD ACTION REQD.
6	7/12/89	EBB DCM LB	TO REFLECT AS-FOUND CONDITIONS FOR RFC-DC-12-3010 PER FWR #759 REV. 1, ADDED: 1" PLUG & ITEM 19 ON B/M, SUPPORT MARK NOS. & SUPERSEDES HGR. ISO. NO. 2-GNSW-122 SH. NO. 2.	NO FIELD ACTION REQ'D.

D-31B

2NSW-122 (sheet 2 of 2)
Upper Containment Ventilation
Unit 4 Return Line

G-14 DESIGN SPEC. DCCPM 109 QCN
HANGER SEISMIC CLASS I
TEST EQUIPMENTS QL-4
WELD PROCEDURE
QSL-04 TESTING SEE NOTE # 4

DESIGN SPEC.	DCCPM 102 QCS
HANGER SEISMIC CLASS	II
TEST REQUIREMENTS	N/A
MATERIAL CLASS	A-21 SPEC. 104

W.P. = WORKING POINT
T.O.E. = THREAD ONE END
T.B.E. = THREAD BOTH ENDS
B.O.E. = BEVEL ONE END
T.O.P. = TOP OF PIPE ELEV
Q.S.L. = MATERIAL QUALITY REQUIREMENTS
T.L. = TRUE LENGTH
B.B.E = BEVEL BOTH ENDS
P.O.E. = PLAIN ONE END
P.B.E. = PLAIN BOTH ENDS
S.O.E. = SHAPE ONE END
B.O.P. = BOTTOM OF PIPE ELEV.
FW = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD
B = FIELD WELD
O = AUTOMATIC SHOP WELD
● = MANUAL SHOP WELD
■ = VERIFY DIMENSION IN FIELD

PIPE: A-53; A-106 GR. B; A-376; A-312 GR. TP-304
STD. XY XXY 10 20 30 40 (X) 60 80 100 120 140 160
SMLS (X) WLDD
FITTINGS: A-105 A-234 A-182 A-403 A-181
TESTING: N.D.T. N/A; M.T. P.T. R.T. U.T.; PRESSURE TEST: MED. PRESS. DURATION
ADDITIONAL

POUR/ZONE No. 2C5 — FLOW DIAGRAM 2-5114A
REQUIRED COMPLETION DATE — Q.S.L. 01
FABRICATED BY TUBECO — WELD PROCEDURE SEE NOTE 2

NPS DESIGNS INC.
NEW YORK, N.Y.

FABRICATOR NOTE:
FABRICATION MUST CONFORM TO LATEST A.E.P. ARRGT. DWGS.

LIVSEY & COMPANY, INC.
INDIANA & MICHIGAN ELECTRIC CO.
DONALD C. COOK NUCLEAR PLANT

DWN: SG DATE: 1-14-72 CONTAIN. VICINITY
CKD: LdB DATE: 3/3/72 DWG. NO. 2-NSW-122 SH. 2 OF 2 REV. 6
ISSUED
REF. DWG. 2-5497A