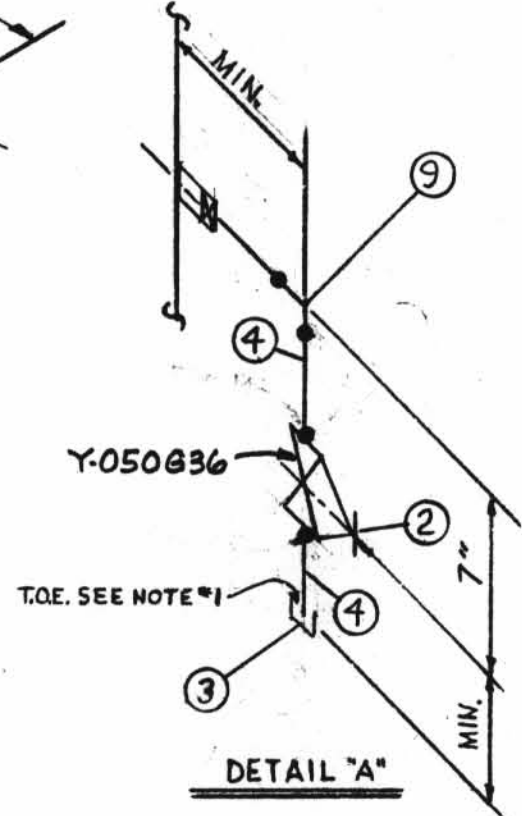
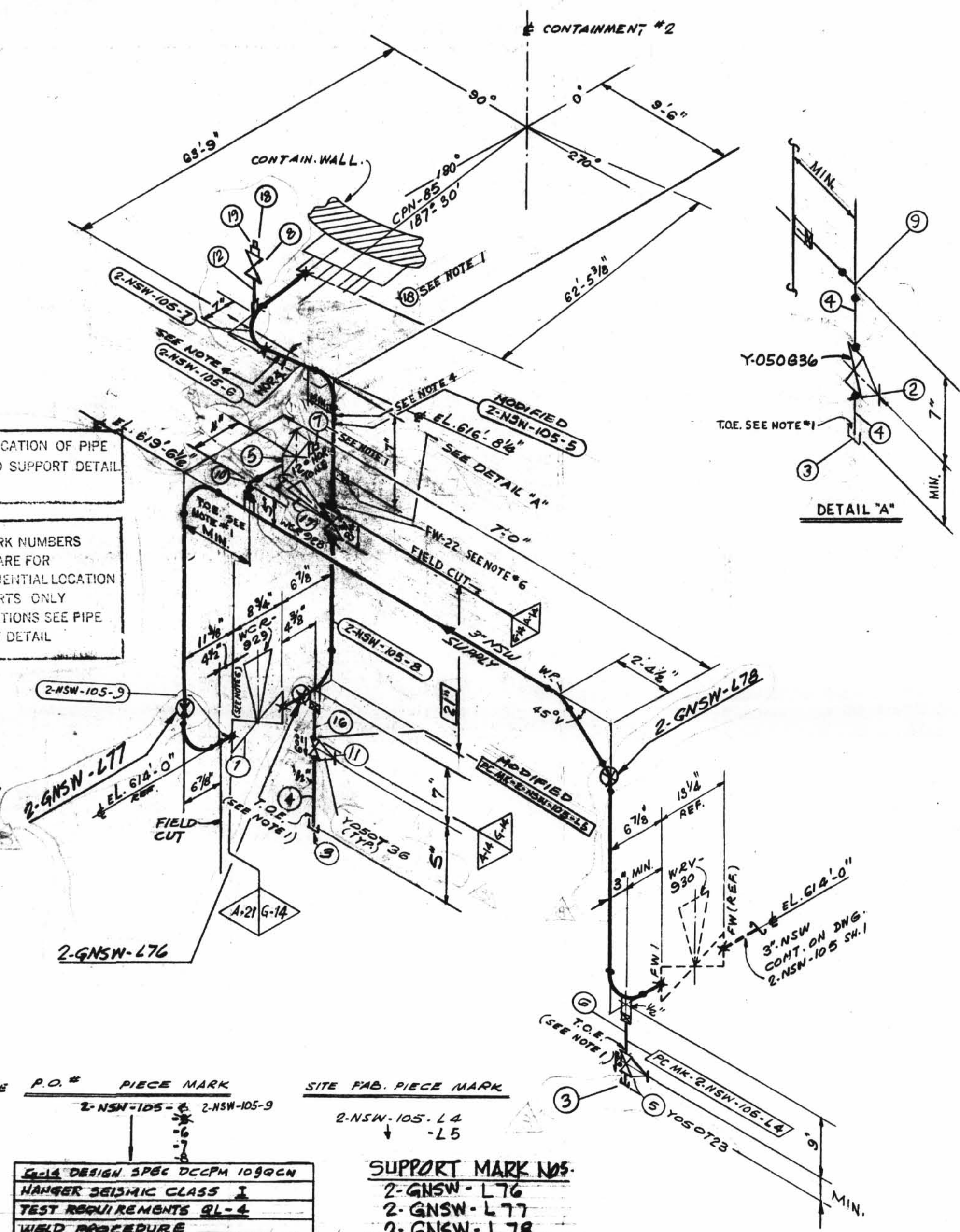
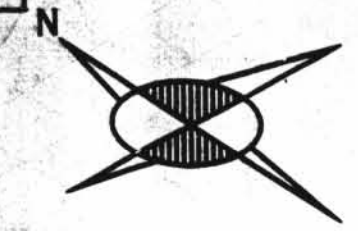


TOTAL
FW
8



FOR REV. & ONLY

SIZE	QUANT.	FW
3"	20	8
1"	-	2
1/2"	4	7

INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

SUPPORT MARK NUMBERS SHOWN ARE FOR GENERAL AND SEQUENTIAL LOCATION OF SUPPORTS ONLY FOR EXACT LOCATIONS SEE PIPE SUPPORT DETAIL

- NOTES:
- USE CRANE 425-A COMPOUND ON ALL THRD CONN.
 - BUTT WELD FWS ARE RT-100% SOCKET WELD FWS ARE MT/PT-100%
 - WELD PROCEDURE AS FOLLOWS:
2" & UNDER - CS-1 OR CS-8
2 1/2" & OVER - CS-1 OR CS-2
 - FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION.
 - FWS PERTAINING TO THIS NOTE ARE TO BE MADE AFTER PIPE IS PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS-BUILT CPN
 - PROVIDE BI-METALLIC WELDS (STAINLESS STEEL-CARBON STEEL)
 - REMOVE BOUNT ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE

SIZE	QUANT.	FW
3"	20	8
1"	-	2
1/2"	4	7

P.O.#	PIECE MARK	SITE FAB. PIECE MARK
	2-NSW-105-8, 2-NSW-105-9	2-NSW-105-L4, -L5

SUPPORT MARK NOS.
2-GNSW-L76
2-GNSW-L77
2-GNSW-L78

DESIGN SPEC. SEE		S.F. BORING POINT		S.B.E. BEVEL BOTH ENDS		F.W. FIELD WELD		H. HORIZONTAL		V. VERTICAL	
HANGER SEISMIC CLASS I		T.O.E. 1 THREAD ONE END		P.O.E. 1 PLAN ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
TEST REQUIREMENTS Q1-4		T.B.E. 1 THREAD BOTH ENDS		P.B.E. 1 PLAN BOTH ENDS		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
WELD PROCEDURE		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
QSL-04 TESTING SEE NOTE #2		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
A-14 DESIGN SPEC. DCCPM 10280CN		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
HANGER SEISMIC CLASS I		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
TEST REQUIREMENTS Q1-4		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
WELD PROCEDURE SEE NOTE 3		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
QSL-04 TESTING SEE NOTE 2		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
A-81 DESIGN SPEC. DCCPM 10280CS		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
HANGER SEISMIC CLASS I		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
TEST REQUIREMENTS Q1-4		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
WELD PROCEDURE SEE NOTE 3		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	
QSL-01 TESTING N/A		T.O.P. TOP OF PIPE ELEV.		S.O.P. 1 SHAPE ONE END		S.W. SHOP WELD		M.S.W. MANUAL SHOP WELD		V.D. VERIFY DIMENSION IN FIELD	

ISO SHT. NO. 2007

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG NO. OR ASTM MAT'L.	HEAT NO.
04	1	1	3"	B.W. DIAPH. CONTROL VA. S.S.	WCR-929	
	2	1	1/2"	600# C.S. SW GATE VALVE	Y050G36	
	3	1	1/2"	3000# C.S. THRD CAP	A-181 GR. I OR II	
	4	AS REQ'D	1/2"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
01	5	2	1/2"	200# THRD GLOBE VA. S.S.	Y050T23	
	6	AS REQ'D	1/2"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
04	7	1	1/2"	3000# THRD. PLUG, C.S.	A-181 GR. I OR II	
	8	1	1"	600# S.W. GLOBE VA., CARB. STL.	Y-100T36	
	9	1	1/2"	90" ELL, 3000# S.W., C.S.	A-181 GR. I OR II	
01	10	1	1"			
	11	1	1/2"	600# GLOBE VA., S.W. C.S.	Y050T36	
	12	AS REQ'D	1"	PIPE (SCH. 40) SMLS., C.S.	A-106 GR. B	
04	16	AS REQ'D	1/2"	PIPE SCH 40S SMLS	A-312 GR. TP. 304	
	17	1	3"	B.W. DIAPH. CONTROL VA. S.S.	WCR-928	
	18	1	3/4"	3000# THRD. PLUG, C.S.	A-181 GR. I OR II	
	19	1	1 1/2"	3000# 1" S.W. X 3/4" THRD. RED. INSERT, C.S.		

REVISION RECORD			
NO.	DATE	DESCRIPTION	REMARKS
1	7/10/76	REVISED BY AEP DESIGN PER RFC-12-671; REV'D; ITEM #2 Y-050G36 WAS CY-050G36 ADDED; 3" CHECK VALVE CISC03A, (2) 1" VENTS - VALVE NO Y-100T23, 1/2" DRAIN VALVE NO Y-050G36	ACTION REQ'D
2	7/23/76	ADDED: ITEMS 9, 10 & 11 TO E/M.	
3	8/1/76	AS PER RFC-12-1790 DELETED VALVE TAG NO. CISC03A, ADDED VALVE TAG NO. CISC03A & ITEMS 12 THRU 15 AND REVISED DIMENSIONS	FIELD ACTION REQ'D
4	7/14/76	PER RFC DC-12-2549 ADDED PIPE SPEC. G-14, DIM'S, PC MK, 845, FIELD WELD 100%. NOTES G & 7, FW 12 TO 23. FSW 24 & 25 ITEMS 16 & 17 TO DIM. DELETED ITEMS 7, 12 TO 15 FROM E/M. REVISED ITEM NO. 1 IN DIM. MODIFIED, PCMK, LS, 2-NSW-105-5.	FIELD ACTION REQ'D
5	7/14/76	PER RFC DC-12-2549 ROTATED ACTUATOR OF VALVE WCR-928 TO 12" HOR. TOWARD NORTH-EAST, REVISED ITEM 3 IN E/M; Y-050T36 WAS Y-050T23	FIELD ACTION REQ'D
6	7/14/76	PER RFC DC-12-2548 RELOCATED TEST CONN. BOXED DIMENSION INDICATES FIELD INFO. ADDED PLUG TO ITEM 8 & 9M.	FIELD ACTION REQ'D
7	7/14/76	PER RFC DC-12-2545 ADDED RED. INSERT, ITEM 19, & PLUG, ITEM 18, TO VALVE, ITEM 8. ITEM 8 WAS Y-100T23 & ITEM 18 WAS 1"	NO ACTION REQ'D
8	7/12/76	TO REFLECT AS-FOUND CONDITIONS FOR RFC DC-12-3010 PER FWR#759 REV. 1; ADDED; DIMS. REVISED; LOCATION OF 1" VENT, 1/2" DRAIN FROM PLUG TO CAP & B/M TO SUIT. ADDED; SUPPORT MARK NOS. 8 SUPERSEDES HGR. 150. NO. 2-GNSW-105 SH. # 2.	NO FIELD ACTION REQ'D

2NSW-105 (sheet 2 of 2)
Upper Containment Ventilation
Unit 3 Supply Line

POUR/ZONE No. 115	FLOW DIAGRAM 2-SH-4A
REQUIRED COMPLETION DATE	Q.S.L. SEE DESIGN
FABRICATED BY TUBECO	WELD PROCEDURE CODE STAMP
NPS DESIGNS INC. NEW YORK, N.Y.	LIVSEY & COMPANY, INC. INDIANA & MICHIGAN ELECTRIC CO. DONALD C. COOK NUCLEAR PLANT
FABRICATOR NOTE: FABRICATION MUST CONFORM TO LATEST A.E.P. ARRGT. DWGS.	DWN: SSG DATE: 6/24/76 CKD: GN DATE: 6/72 ISSUED
	DWG. NO. 2-NSW-105 SH. 2 OF 2
	REV. 8