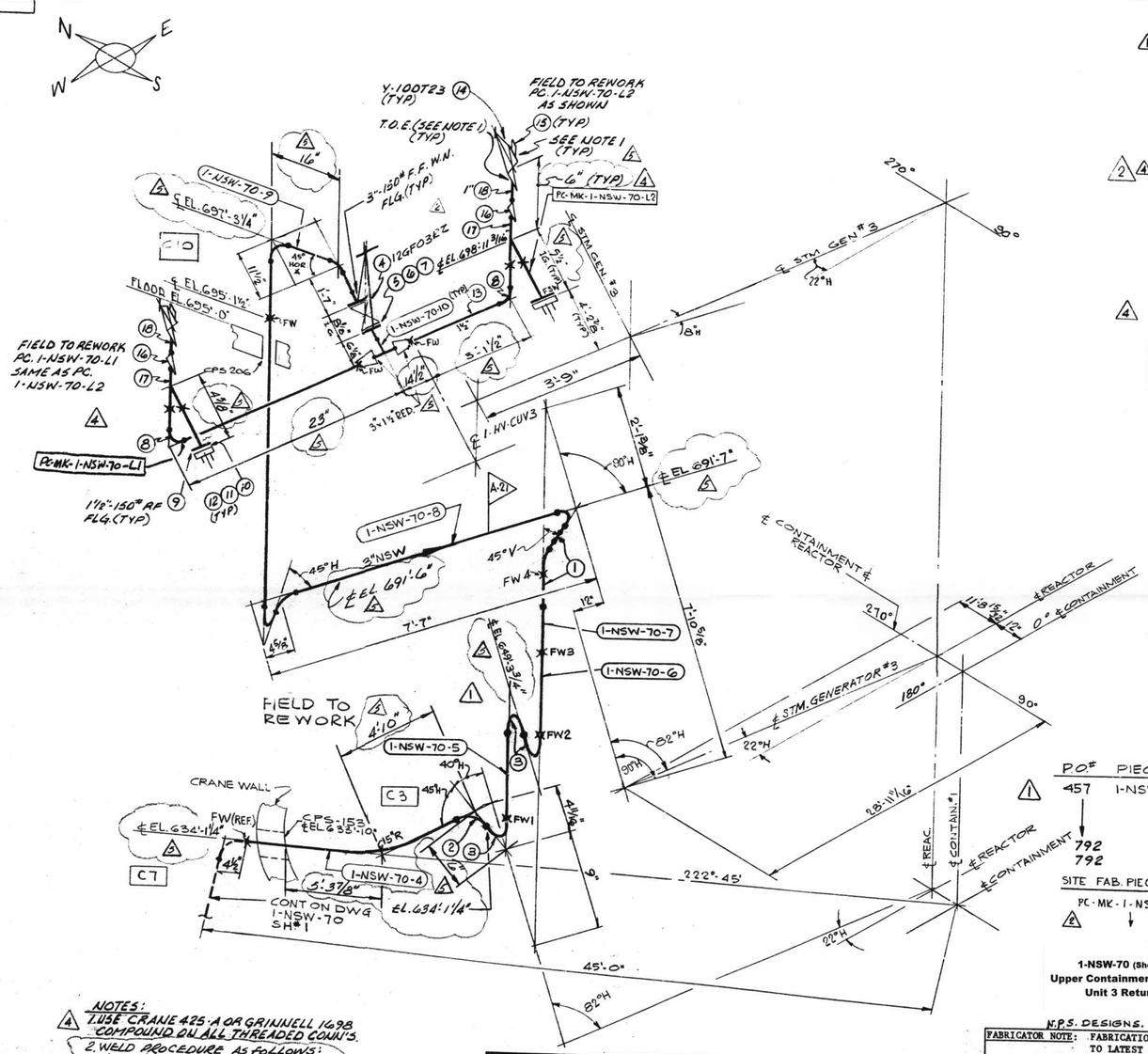
TOTAL FW



QSL	ITEM	QTY. AS REQD	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
				MATERIAL 190 SH. No. 1433		
01	1	AS REQD	3"	PIPE, SMLS, CS, SCH 40	A-106 GR B	
	2	1	3"	45° ELL, BW, CS, SCH 40	A-234 GR WPB	
	3	3	3"	90° LR ELL, BW, CS, SCH 40		
	4	1	3"	125# C.I. FLG'D. GATE VA.	12GF03RZ	
	5	2	3"	1/16 THK 150# FF GASK. COMP ASBESTOS RUBBER BONDED		
	6	8	5/8"	× 3" LG HEX. HD. MACH. BOLTS	A307 GR B	
	7	8	5/8	HEAVY HEX. NUT CLASS 2 TOL.	A307 GR. B	
	8	2	1 1/2"	3000# C.S. SW 90° ELL	A105 OR A105 GR I OR II	
	9	2	1 1/2"	150# RF SW FLG.		
	10	2	1 1/2"	1/16 THK 150# FF GASK. COMP ASBESTOS RUBBER BONDED		
	11	8	1/2" ø × 2 1/4"	LG. HEX. HD MACH. BOLT.	A307 GR B	
	12	8	1/2"	HEAVY HEX. HD NUTS CL 2 TOL.	A307 GR B	
	13	AS REQ	1 1/2"	SMLS. C.S. PIPE SCH 80	A106 GR B	
	14	2	1"	200# THD. BRONZE GLOBE VA.	Y100T23	
	15	2	1"	3000# C.S. THD PLUG	A-181 CL II	
	16	2	1 1/2"x1"	SW RED. INSERT		
	17	2	1 1/2"	SW TEE		
	18	AS REQD	1"	PIPE (SCH. 80) SMLS CS	A-106 GR B	

REV	DATE	DR CHK	DESCRIPTION	REMARKS
1	4/10/72	JQ GN	REVISED PIPING & ADDED NOTE FOR FIELD REWORK FOR PC MK 4 THRU 8. ADDED: ITEMS 1, 2 & 3; P.O.#; BOX FOR TOTAL NO. OF FW'S. DELETED: WELD PROCEDURE. PER A.E.P. DWG 1-5489A-2.	FIELD ACTION REQD
2	6/15/72	CRM EP	ADDED: SPOOLS 9 & 10; PC-MK-1-NSW-70-L1, L2; BILL OF MAT'L. ITEMS 4 THRU 13. PER AEP DWG. 1-5740 - REV. 1. ADDED REF. DWG. 1-5740. REV. BY NPS DESIGN	FIELD ACTION REQ. / FAB. ACTION REQ.
3			BY FIELD	
4	2/1/73	J.Q. JQB	ADDED: 1" VENTS & REWORKED PCS. 1-NSW-70-L1 & L2 TO 3/4". ADDED ITEMS 14 THRU 18 & CHGD QTY OF ITEM 8. ADDED NOTE 2 & P.O.# PER AEP ARRG'T DWG. 1-5744-5	FIELD ACTION REQ. / —
5	1/11/74	GB BR	ADDED: NOTE #2 DIMS. 16" 43/8"; 4'-10" 5'-3 3/8"; EL. 697'-2 3/8"; 697'-3 1/4"; 634'-1 1/4" WAS MIN.; 3'-11/8" WAS 3'-1/4"; 1 1/2" WAS 3/4"; 23" WAS 2'-4 1/2"; 5'-2" WAS 4'-1/2"; EL. 697'-3 1/4" WAS 697'-3"; 691'-7" WAS 691'-6"; 643'-3 3/4" WAS 643'-3"; 634'-1 1/4" WAS 634'-1". PER AS BUILT DIMS. A.E.P. DWGS. 1-5489A-4 & 1-5740-6	NO ACTION REQ'D.

LABOR COST CONTROL — USE ONLY WITH	
PIPE SIZE	
SCHEDULE	
TYPE	
ISO START DATE	
ISO FINISH DATE	
WORK OPERATION	LINE ITEM NUMBER
HANGER INST.	
ERECT	
WELD	
RADIO-G – X-RAY	
STRESS RELIEVE	
MISC. WORK	

LABOR COST CONTROL — USE ONLY WITH	
PIPE SIZE	
SCHEDULE	
TYPE	
ISO START DATE	
ISO FINISH DATE	
WORK OPERATION	LINE ITEM NUMBER
HANGER INST.	
ERECT	
WELD	
RADIO-G – X-RAY	
STRESS RELIEVE	
MISC. WORK	

P.O.#	PIECE MARK
457	1-NSW-70-4
	-5
	-6
	-7
	-8
792	9
792	10

SITE FAB. PIECE MARK

PC-MK-1-NSW-70-L1 / L2

1-NSW-70 (Sheet 2 of 2)
Upper Containment Ventilation
Unit 3 Return Line

N.P.S. DESIGNS.

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

NOTES:
1. USE CRANE 425-A OR GRINNELL 1698 COMPOUND ON ALL THREADED CONN'S.
2. WELD PROCEDURE AS FOLLOWS:
C/S 2 1/2" & UNDER = CS-6 OR CS-11
C/S 3" & OVER UP TO 3/4" WALL = CS-1 OR CS-2
3/4" WALL & UP = CS-5

SIZE	QUAN.	FW
3"	83'-0	13
1 1/2"	5'-0	2
1"	1'	-

DESIGN SPEC.	DCCPM102065
HANGER SEISMIC CLASS	II
TEST REQUIREMENTS	N/A
MATERIAL CLASS	A-21 SP-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.
F/W = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD
R = FIELD WELD
O = AUTOMATIC SHOP WELD
M = MANUAL SHOP WELD
# = VERIFY DIMENSION IN FIELD

PIPE											
A-53	A-106	A-376	A-312								
	GR-B										
STD.	XY	XXY	10	20	30	40	60	80	100	120	140	160
						X					
SMLS	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. 103, 107, 1010
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO

FLOW DIAGRAM 1-2-5114A
O.S.L. 01
WELD PROCEDURE SEE NOTE 2

REVISION RECORD

NO.	DATE	DESCRIPTION

LIVSEY & COMPANY, INC.
DONALD C. COOK NUCLEAR PLANT

DWN. LGR	DATE: 7-15-71	CONTAINMENT BLDG
CKD. GN	DATE: 7-20-71	DWG. NO. 1-NSW-70 SH 2 OF 2
ISSUED		REV 5
REF. DWG. 1-5489A, 1-5740		

D-58B