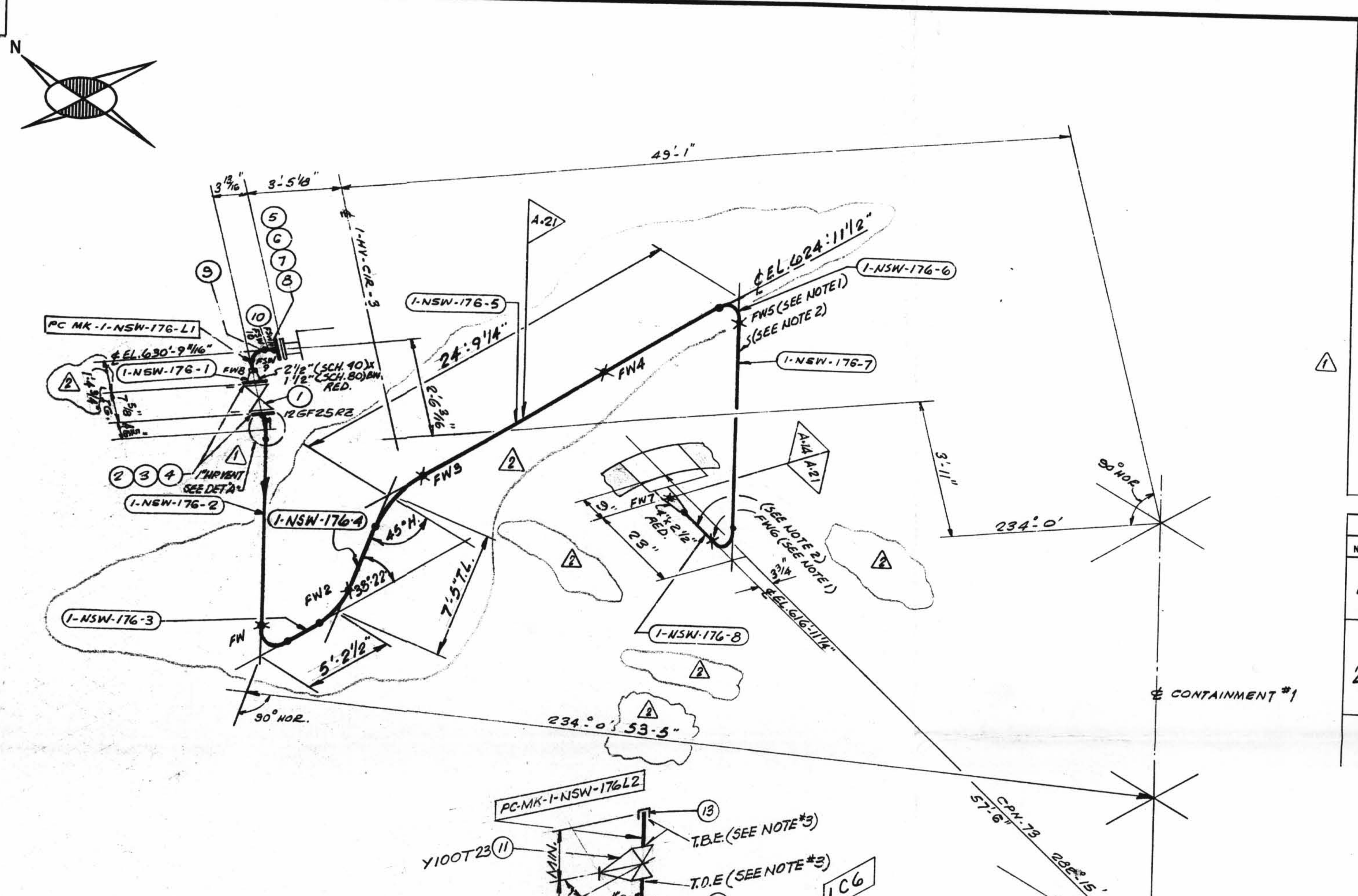
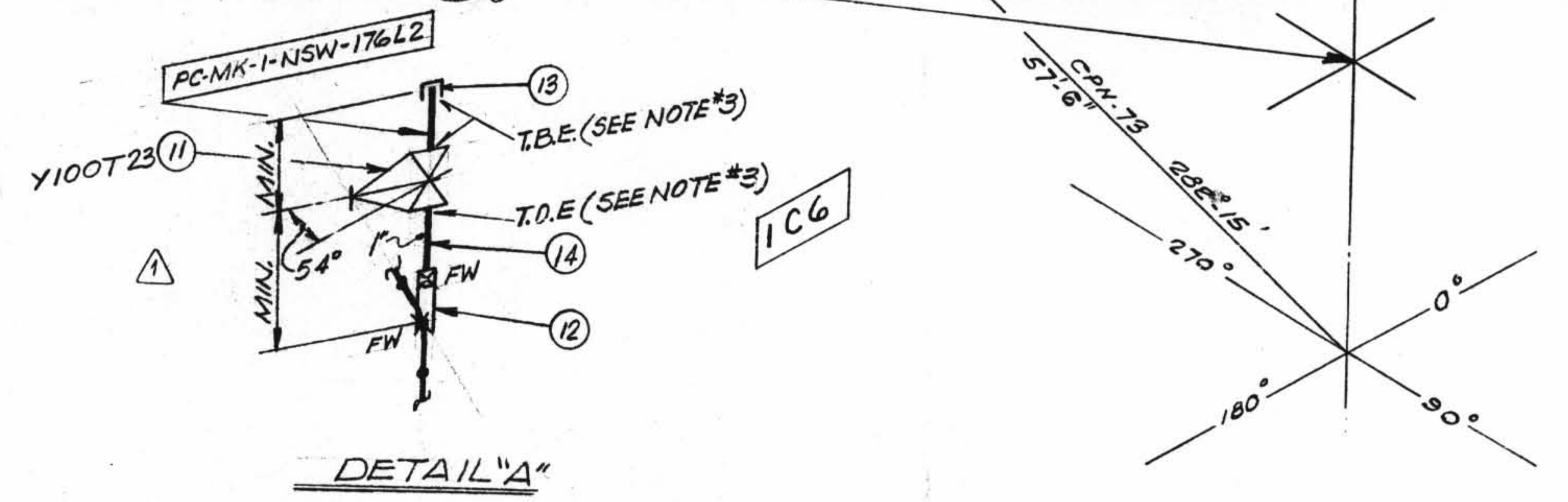

TOTAL FW
N
49'-1"
3'13/16"
3'-5 1/8"
1-NSW-176-5
1-NSW-176-6
1-NSW-176-7
1-NSW-176-1
1-NSW-176-2
1-NSW-176-3
1-NSW-176-4
1-NSW-176-8
PC MK-1-NSW-176-L1
EL.630'-9 11/16"
EL.624'-11 1/2"
EL.616'-11 1/4"
FWS (SEE NOTE 1)
(SEE NOTE 2)
24'-9 1/4"
12GF25RZ
1" VENT SEE DET A
45°H.
38°22'
7'5" T.L.
5'-2 1/2"
FW2
FW3
FW4
FW6 (SEE NOTE 1)
FW7
90° HOR.
234°-0'
234°-0' 53'-5"
31'-1"
℄ CONTAINMENT #1
CPN-73
57'-6"
270°
0°
180°
90°



DETAIL "A"

NOTES:

1. FIELD WELDS REFERENCED TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, PREALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS BUILT CPN.
2. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE AND PLAIN END TO FACILITATE INSTALLATION.
3. USE CRANE 425A COMPOUND OR GRINNELL 1698 ON ALL THREADED CONNS. △1
4. WELD PROCEDURE AS FOLLOWS: C/S 2½" & UNDER - CS-6; C/S 3" & OVER UP TO ¾" WALL CS-1 OR CS-2; ¾" WALL & UP - CS-5 △2

SITE FAB. PIECE MARK	P.O. # PIECE MARK
1-NSW-176-L1 1-NSW-176-L2 △1	1-NSW-176-1 -2 -3 -4 -5 -6 -7 -8

D-62

ISO SHT. NO. 2703

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	1	2½"	125# C.I. FLG'D. GATE VA	12GF25RZ	
	2	2	2½"	1/16" THK. FULL FACE, COMP. ASBESTOS RUBBER BONDED GASKET.		
	3	8	⅝"φ	3" LG. HEX. HD. MACH. BOLT	A-307 GR. B	
	4	8	⅝"	HEAVY HEX. NUT CL. 2 TOL.	↓	
	5	1	1½"	150# R.F S.W. FLG.	A-181 GR. I OR II	
	6	4	½"φ	2¼" LG. HEX. HED. MACH. BOLT	A-307 GR. B.	
	7	4	½"	HEAVY HEX. NUT CL. 2 TOL.	↓	
	8	1	1½"	1/16" THK. FULL FACE, COMP. ASBESTOS RUBBER BONDED GASKET		
	9	1	1½"	3000# C.S. S.W. 90° ELL.	A-181 GR I OR II	
	10	AS REQ'D	1½"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR. B.	
	11	1	1"	200# THD GLOBE VALVE BRONZE OR BRASS	Y100T23	
	12	1	1"	3000# SW C.S. ELBOLET	A-181 GR I OR II	
	13	1	1"	3000# THD C.S. CAP	A-181 GR I OR II	
△1 ↓	14	AS REQ'D	1"	PIPE (SCH.80) SMLS C.S.	A-106 GR. B	

REVISION RECORD

NO.	DATE	DR CHK.	DESCRIPTION	REMARKS
1	3. 20. 73	JQ / LGR	REVISED BY N.P.S. DESIGNS: ADDED ITEM'S 11 THRU 14 TO B/M, LIVSEY SPOOL 1-NSW-176-L2, DETAIL "A" NOTE #3 TO SUIT A.E.P. ARRG'T DWG 1-5702 REV. 7	FIELD ACTION REQ'D —
2	8. 10. 73	JQ QFJ	REVISED BY N.P.S. DESIGNS. REVISED PC. MKS 1-NSW-176-3, 4, 5 & 6. DELETED: P.T. 275° P.T. 250°-12'-55"-54'-6", P.T. 262°-36'-29"-54'-6", EL. 619'-3", EL. 623'-0", 2'-3" DIM., 20 1/16" & 45° V. ADDED: "EL. 624'-11½", 24'-9¼" DIM., 45° H, 38°22', 7'-5" T.L., 5'-2½" DIM. & NOTE 4. 53'-5" DIM. WAS 52'-9 13/16", 1'-4¾" WAS 7⅞" PER AS-BUILT DIM'S. A.E.P. ARRG'T. DWG. 1-5702 REV. 7	NO ACTION REQ'D

1-NSW-176
Instrument Room Ventilation
Unit 3 Return Line

SIZE	QUAN.	FW
4	-	1
2½	53	6
1½	2	1
1	1	2

A.14 DESIGN SPEC. DCCPM 103 QCN
HANGAR SEISMIC CLASS I
TEST REQUIREMENTS QL. 4
WELD PROCEDURE (SEE NOTE 4)
QSL-04 TESTING 100% R.T. B.W.

A.21 DESIGN SPEC. DCCPM 102 QCS.
HANGAR SEISMIC CLASS II
TEST REQUIREMENTS QL. N/A
WELD PROCEDURE (SEE NOTE 4)
QSL-01 TESTING N/A.

DESIGN SPEC.	SEE
HANGER SEISMIC CLASS	DESIGN
TEST REQUIREMENTS	CODE
MATERIAL CLASS	STAMP

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
= FIELD WELD
O = AUTOMATIC SHOP WELD
= 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											
X												

FITTINGS

A-105	A-234	A-182
A-403	A-181	

TESTING

N.D.T. SEE DESIGN CODE STAMP

M.T.	P.T.	R.T.	U.T.

PRESSURE TEST

MED.	PRESS.	DURATION

ADDITIONAL

POUR/ZONE No. 1C6
REQUIRED COMPLETION DATE ____
FABRICATED BY TUBECO
FLOW DIAGRAM 1-2-5114 A
Q.S.L. SEE DESIGN
WELD PROCEDURE CODE STAMP.

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: S.G.	DATE: 6-12-72	CONTAINMENT BLDG	
CKD: WP	DATE: 7-5-72	DWG. NO.	REV.
ISSUED		1-NSW-176	2
REF. DWG. 1-5702			