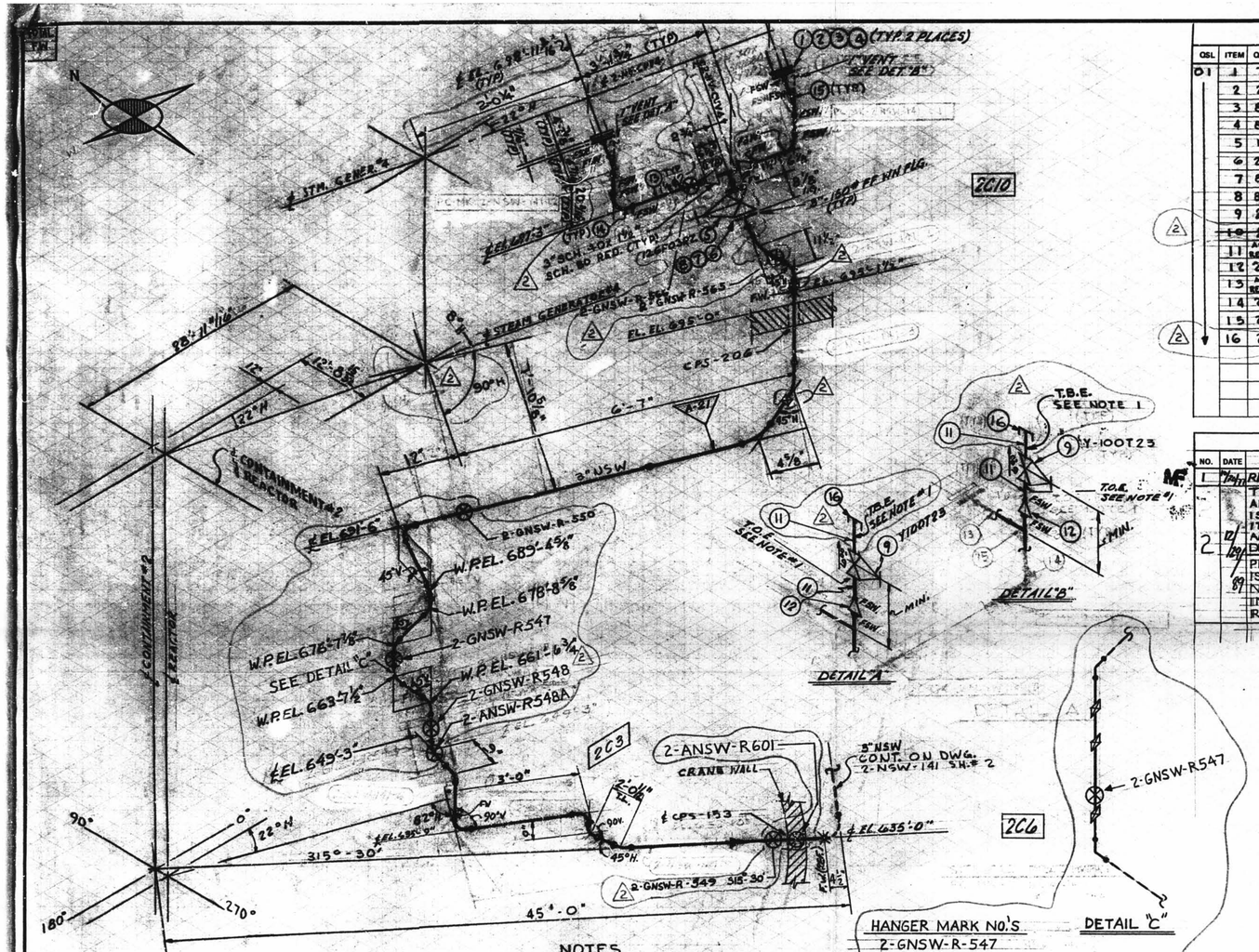
ISO SHT. NO. 3421

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
Q1	1	2	1½"	150# R.F. S.W. FLG. (SCH. 80)	A-181 OR A-105 GR. I OR II	
	2	2	1½"	1/16" THK 150# F.F. GASK. COMP. ASBESTOS RUBBER BONDED		
	3	8	¾"	x 2¼" LG. HEX. HD. MACH. BOLTS CL. 2 TOL.	A-307 GR. B.	
	4	8	¾"	HEAVY HEX. NUTS CL. 2 TOL	A-307 GR. B	
	5	1	3"	125# C.I. FLG'D GATE VA.	12GF03R2	
	6	2	3"	1/16" THK 150# F.F. GASK. COMP. ASBESTOS RUBBER BONDED		
	7	8	⅝"	x 3" LG. HEX. HD. MACH. BOLTS CL. 2 TOL.	A-307 GR. B.	
	8	8	⅝"	HEAVY HEX. NUTS CL. 2 TOL	A-307 GR. B	
	9	2	1"	200# THR'D BRONZE GLOBE VA.	Y-100T23	
	~~10~~	~~2~~	~~1~~	~~3000# THR'D C.S. PLUG~~	~~A-181 OR A-105 GR. I OR II~~	DELETED
	11	AS REQ'D	1"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
	12	2	1½"	3000# C.S. S.W. RED. INSERT	A-181 OR A-105 GR. I OR II	
	13	AS REQ'D	1½"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
	14	2	1½"	3000# C.S. S.W. 90° ELL	A-181 OR A-105 GR. I OR II	
	15	2	1½"	3000# C.S. S.W. TEE	A-181 OR A-105 GR. I OR II	
	16	2	1"	3000# THR'D CS CAP	A-181 OR A-105 GR. I OR II	

REVISION RECORD

NO.	DATE	DESCRIPTION	DRWN/CHK'D	REMARKS
1	7/21/77	REV. PER RDM-MC-0177; ADDED NOTE #2. SJ		
2	12/29/87	TO REFLECT AS BUILT COND. FOR RFC DC 12-2876 ADDED SUPPORT MARK NOS. & SUPERSEDED HANGER ISO 2-GNSW-141 (SHT. 1). REVISED H/W ORIENT. OF ITEM 55 PER DIAGRAM REF. NOZZLE 73 & ELIM. TO SUIT ANGLE OFF STEAM GENERATOR. PIPING CONFIGURATION. DELETED NOTE 2 & SYMBOLS.	RJD BC LB	NO FIELD ACTION REQ'D.
		PER RFC DC-02-2908 THIS DRAWING ISSUE IS FOR AS-BUILT INFORMATION ONLY. ADDED: NEW FIELD WELDS & DETAIL "C", PER INFORMATION ON DWG. M-SGR-2-NSW-141-1 REV. 3, DCDR-047 & FIELD SKETCH FIG. NO. 38.	GJB DJM LB	



NOTES

1. USE CRANE 425 A OR GRINNELL 1698 COMPOUND ON ALL THREADED CONN'S

HANGER MARK NO.'S

2-GNSW-R-547
2-GNSW-R-548
2-ANSW-R-548A
2-GNSW-R-549
2-GNSW-R-550
2-GNSW-R-565
2-GNSW-R-566
2-ANSW-R-601

DETAIL "C"

D-42A

2-NSW-141 (Sheet 1 of 2)
Upper Containment Ventilation
Unit 4 Return Line

SIZE	QUAN.	FW
3"	90'-0"	5
1½"	8'-0"	2
1"	1'-0"	—

⊗ 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

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

B.P. = BORING POINT
T.B.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 GR. B; A-106; A-376; A-312. STD. XY XXY 10 20 30 40 60 80 100 120 140 160. 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. 2C10, 2C3, 2C6 FLOW DIAGRAM 2-5116A
REQUIRED COMPLETION DATE Q.S.L. Q1
FABRICATED BY TUBECO WELD PROCEDURE

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. A.J.C. DATE 5/21/73 CONTAINMENT BLDG
CKD. C.D. DATE 5/21/73 DWG. NO. 2-NSW-141 REV. 2
ISSUED
REF. DWG. 2-5489A 2-5748 SH. 1 OF 2