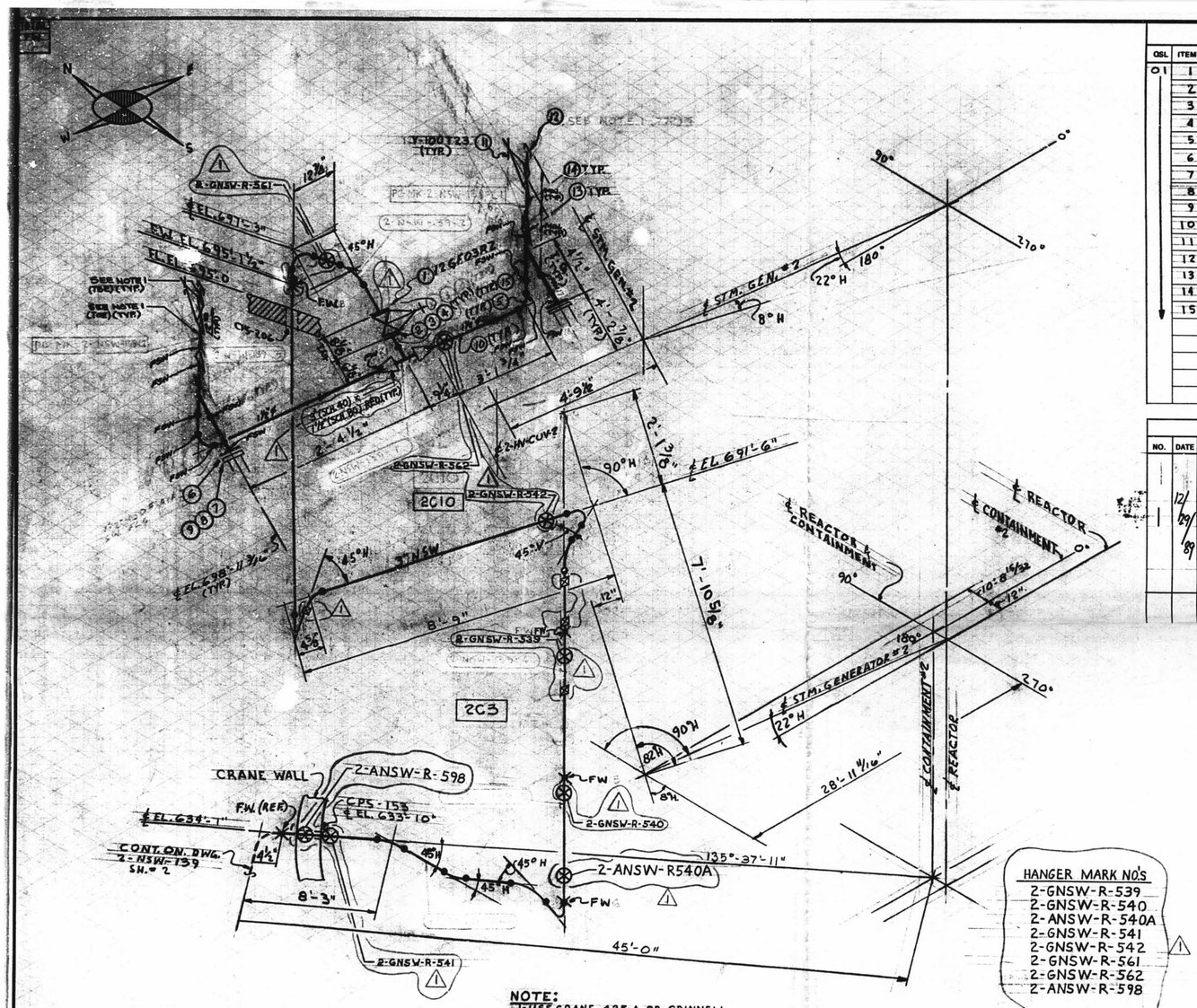

ISO SHT. NO. 3417

OSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	1	3"	125# C.I. FLG'D GATE VA.	12GF03RZ	
	2	2	3"	1/16" TH'K 150# F.F. GASK. COMP. ASBESTOS RUBBER BONDED		
	3	8	5/8"	X 3" LG. HEX. HD. MACH. BOLT	A-307 GR.B	
	4	8	5/8"	HEAVY HEX. HD. NUTS CL 2 TOL	A-307 GR.B	
	5	2	1½"	3000# C.S. SW. 90° ELL	A-181 GR.1 OR II	
	6	2	1½"	150# R.F. SW. FLG. (SCH. 80)		
	7	2	1½"	1/16" THK 150# F.F. GASK. COMP. ASBESTOS RUBBER BONDED		
	8	8	½"	X 2¾" LG. HEX. HD. MACH. BOLT	A-307 GR.B	
	9	8	½"	HEAVY HEX. HD. NUTS CL 2 TOL		
	10	AS REQ'D	1½"	PIPE (SCH. 80) SMLS C.S.	A-106 GR.B	
	11	2	1"	200# THR'D BRONZE GLOBE VA.	Y-100T23	
	12	2	1"	3000# C.S. (THRD) CAP	A-181 GR I OR II	
	13	2	1"x½"	3000# C.S. SW RED. INSERT		
	14	AS REQ'D	1"	PIPE (SCH. 80) SMLS C.S.	A-106 GR.B	
	15	2	1½"	3000# C.S. S.W. TEE	A-181 GR I OR II	

REVISION RECORD

NO.	DATE	BY	DESCRIPTION	REMARKS
1	12/29/89	RWD BC. LB	TO REFLECT AS BUILT COND. FOR RFC DC-12-3070: ADDED SUPPORT MARK NR's & SUPERSEDED HANGER ISO: 2-GNSW-139 (SHT. 1). REVISED H.W. ORIENTATION OF ITEM ONE; FLOW DIAGRAM REF. NO; DESCRIPTION OF ITEM 12@ B/M. * NOTE FOR RED.	NO FIELD ACTION REQ'D
	6/8/89	GJB DBM LB	PER RFC DC-02-2908 THIS DRAWING REVISE IS FOR AS-BUILT INFORMATION ONLY. ADDED NEW FIELD WELDS. PER INFORMATION ON DWG M-SGR-2-NSW-139-1 REV. 2 & FIELD SKETCH NO. 21.	

HANGER MARK NO'S
2-GNSW-R-539
2-GNSW-R-540
2-ANSW-R-540A
2-GNSW-R-541
2-GNSW-R-542
2-GNSW-R-561
2-GNSW-R-562
2-ANSW-R-598

D-44A

NOTE:
USE CRANE 425-A OR GRINNELL 1698 COMPOUND ON ALL THREADED CONN'S.

SIZE	QUAN.	FW
3"	90'-8"	4
1½"	18'-0"	2

⊗ 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.	DCCPM102 QCS
HANGER SEISMIC CLASS	II
TEST REQUIREMENTS	N/A
MATERIAL CLASS	A-21 SPEC. 104

R.P. = BORING POINT; T.O.E. = THREAD ONE END; T.B.E. = THREAD BOTH ENDS; B.E. = BEVEL ONE END; T.O.P. = TOP OF PIPE ELEV.; Q.&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; V = VERTICAL; H = HORIZONTAL; SW = SHOP WELD; FSW = FIELD SHOP WELD; ⊗ = FIELD WELD; A = AUTOMATIC SHOP WELD; M = MANUAL SHOP WELD; ◇ = VERIFY DIMENSION IN FIELD

PIPE														
A-53	A-106 GR.B		A-376		A-312									
STD.	XY	XXY	10	20	30	40	60	80	100	120	140	160		
SMLS	WLD'D													

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. 263EC10
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO
FLOW DIAGRAM 2-5114A
Q.S.L. 01
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. BC DATE 7/17/89 CONTAINMENT BLDG
CKD. E.J.G. DATE 5/26/89
ISSUED
REF. DWG. E-5144-A

DWG. NO. 2-NSW-139 REV. 1
SH # 1 OF 2

2-NSW-139 (Sheet 1 of 2)
Upper Containment Ventilation
Unit 2 Return Line