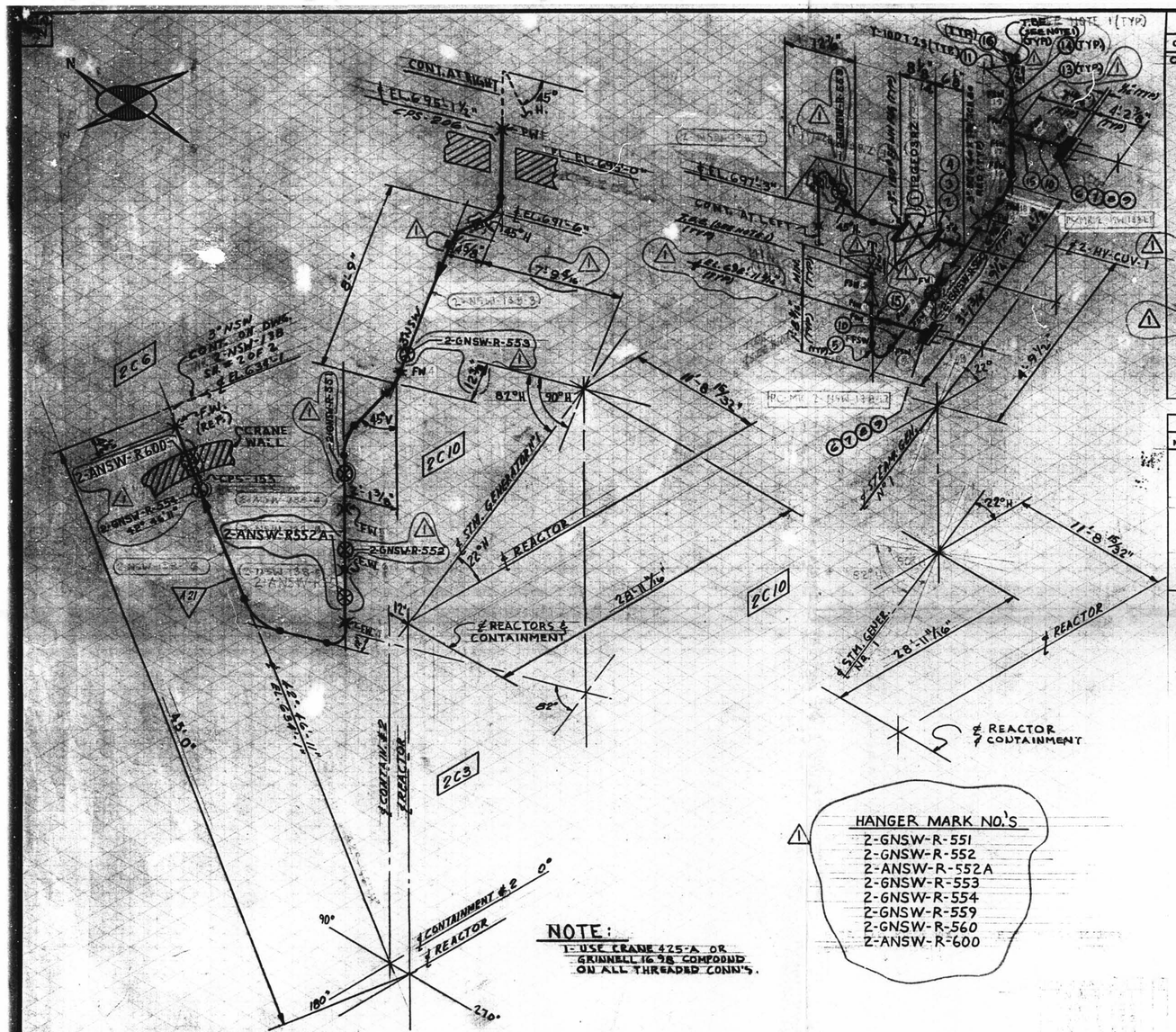
ISO SHT. NO. 3415

| QSL | ITEM | QTY. | SIZE | MATERIAL DESCRIPTION | TAG No. OR ASTM MAT'L. | HEAT NO. |
|---|---|---|---|---|---|---|
| 01 | 1 | 1 | 3" | 125# CI. FLG'D GATE VA. | 12GFD5RZ | |
| | 2 | 2 | 3" | 1/16" THK 150# F.F. GASK. COMP. ASBESTOS RUBBER BONDED | | |
| | 3 | 8 | 5/8"x3" | LG. HEX. HD. MACH. BOLT CL 2 TOL | 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. S.W. 90° ELL | A-181 OR A-105 GR. I OR II | |
| | 6 | 2 | 1½" | 150# R.F. S.W. FLG. (SCH. 80) | " | |
| | 7 | 2 | 1½" | 1/16" THK 150# F.F. GASK. COMP. ASBESTOS RUBBER BONDED | | |
| | 8 | 8 | ½"x2¼" | LG. HEX. HD. MACH. BOLT CL 2 TOL | 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-100T-23 | |
| | 12 | 2 | 1" | 3000# C.S. THR'D PLUG | A-181 OR A-105 GR. I OR II | DELETED |
| | 13 | 2 | 1½"x1" | 3000# C.S. S.W. 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 OR A-105 GR. I OR II | |
| | 16 | 2 | 1" | 3000# CS, THR'D CAP | A-181 OR A-105 GR. I OR II | |

**REVISION RECORD**

| NO. | DATE | DRAWN/CHK'D | DESCRIPTION | REMARKS |
|---|---|---|---|---|
| | | BWD | TO REFLECT AS BUILT COND. FOR REF. DC-12-3070: ADDED SUPPORT MARK NOS & SUPERSEDED HGR. ISO 2-GNSW-138 (SHT. 1); REVISED H.W. ORIENTATION OF ITEM 13, FLOW DIAGRAM REF. NO. SHEET 5 & B/M TO SUIT. | NO FIELD ACTION REQ'D |
| 1 | 12/29/89 | BC LB GJB DDM LB | PER REF. DC-02-2908 THIS DRAWING ISSUE IS FOR AS-BUILT INFORMATION ONLY ADDED NEW FIELD WELDS. PER INFORMATION ON DWG. M-5GR-2-NSW-138-1 REV. 4, DCDR-047, DCDR-243 & FIELD SKETCH FIG. NO. 5. | |




HANGER MARK NO.'S
2-GNSW-R-551
2-GNSW-R-552
2-ANSW-R-552A
2-GNSW-R-553
2-GNSW-R-554
2-GNSW-R-559
2-GNSW-R-560
2-ANSW-R-600

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

D-45A

2-NSW-138 (Sheet 1 of 2)
Upper Containment Ventilation
Unit 1 Return Line

| SIZE | QUAN. | FW |
|---|---|---|
| 3" | 40' | 6 |
| 1½" | 9' | 2 |
| 1" | 1' | - |

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

⊗ INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

DESIGN SPEC. DCCPM102 QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS N/A
MATERIAL CLASS A-21 SPEC 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
G.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 | | | |
| 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, 2C6, 2C9 FLOW DIAGRAM 2-5114 A
REQUIRED COMPLETION DATE Q.S.L. 01
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.L.C. DATE 7/16/79
CKD. C.D. DATE 7/16/79
ISSUED
REF. DWG. 2-5488-A 2-5744

CONTAINMENT BLDG.
DWG. NO. 2-NSW-138
SH. 1 OF 2
REV. 1