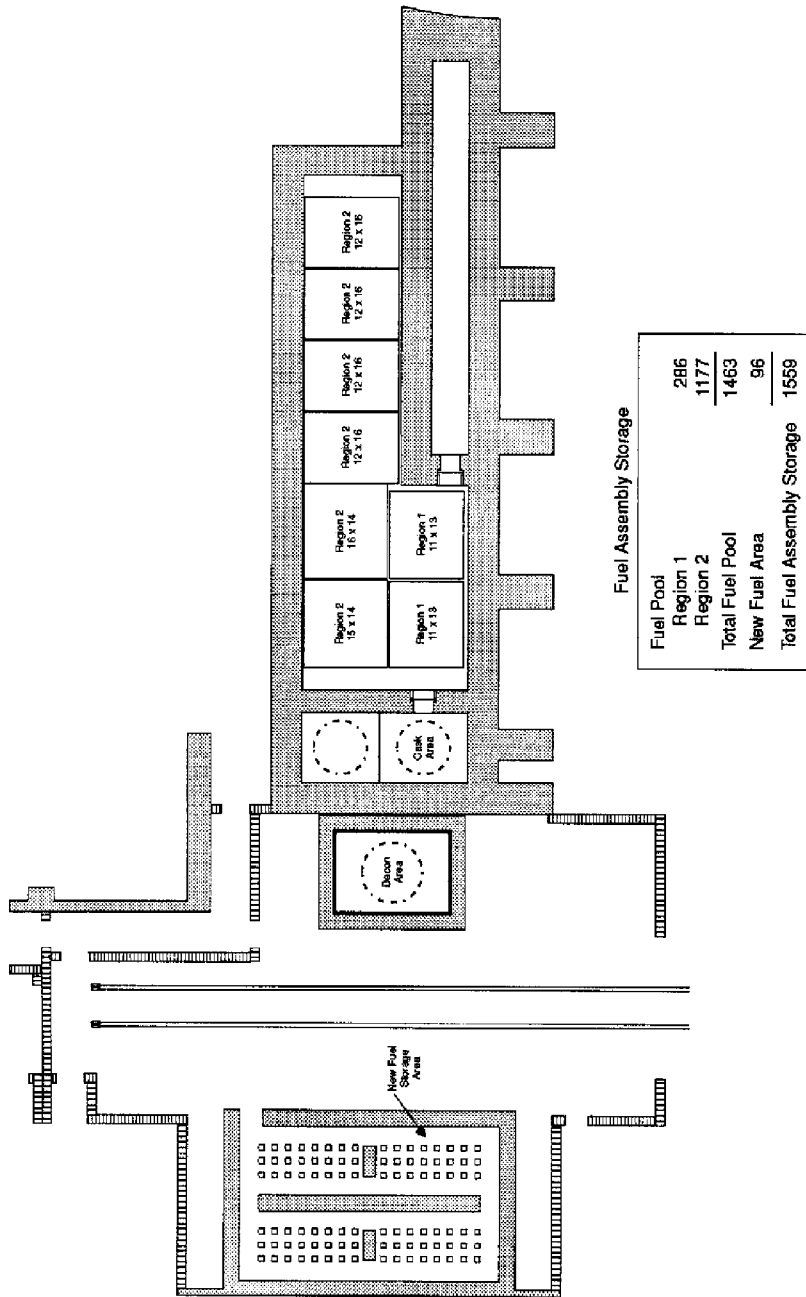


## Appendix 9B. Figures

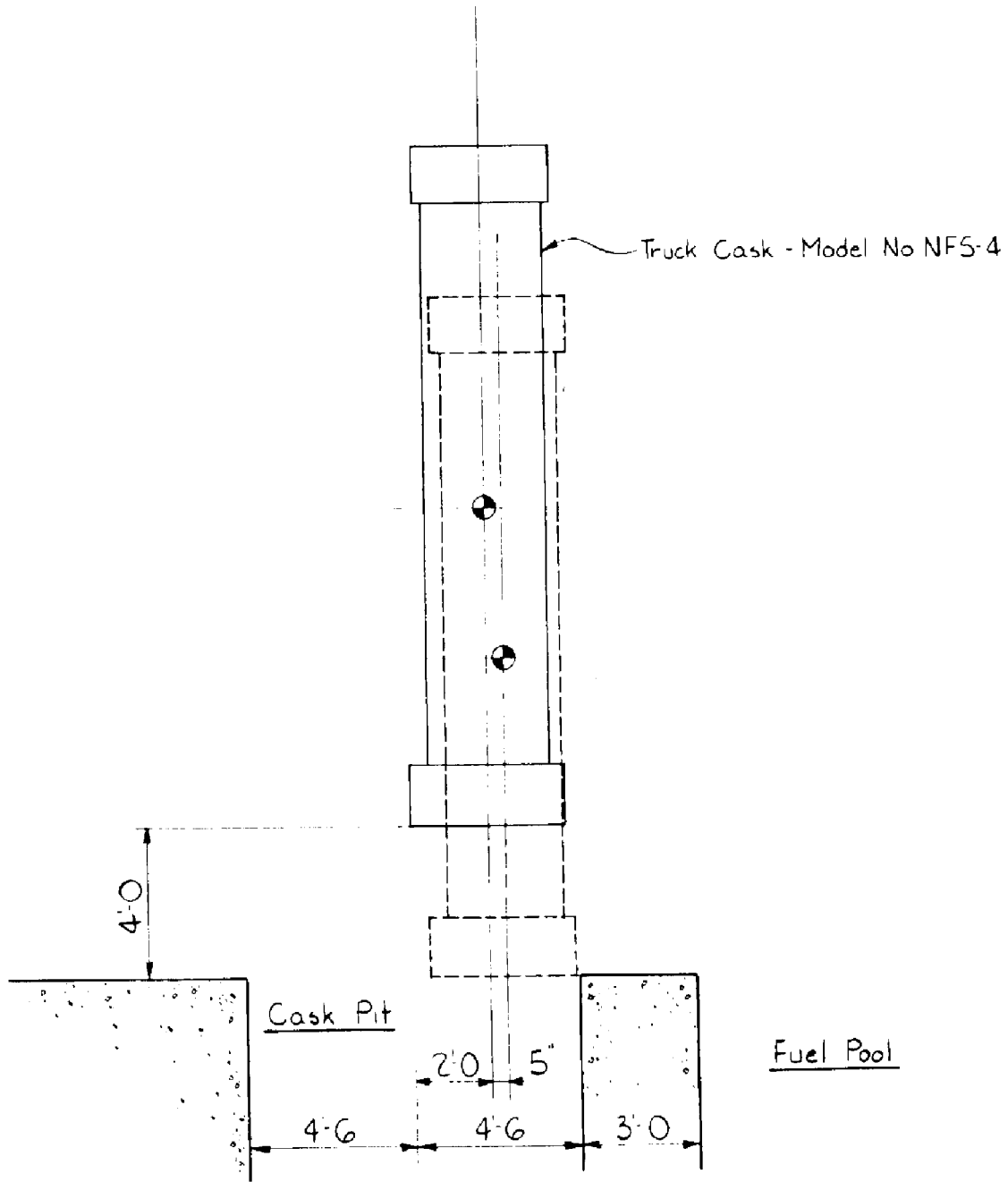
Figure 9-1. Fuel Building - General Arrangement





**Figure 9-3. Cask Drop Evaluation**

←



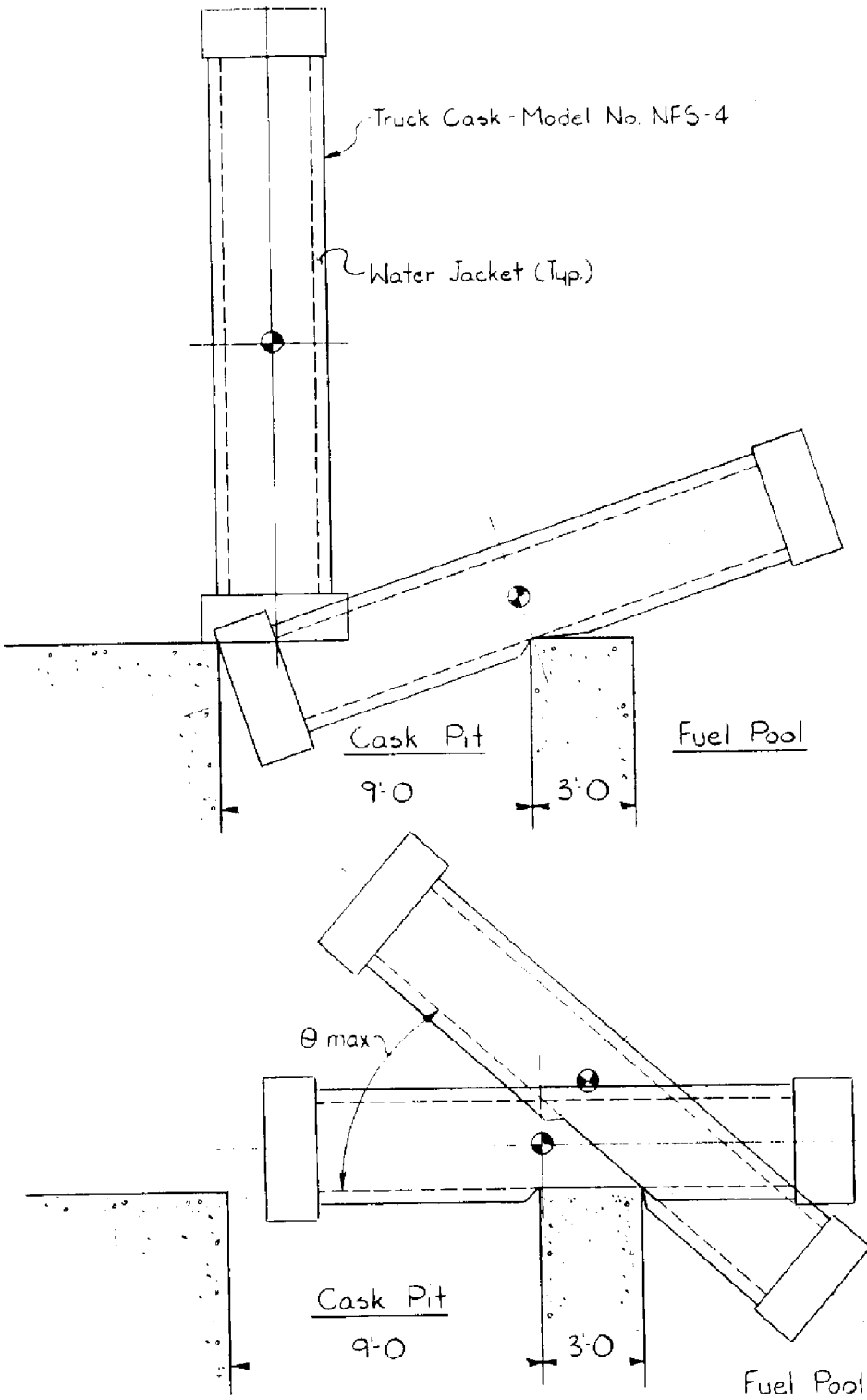


Figure 9-4. Cask Drop Evaluation

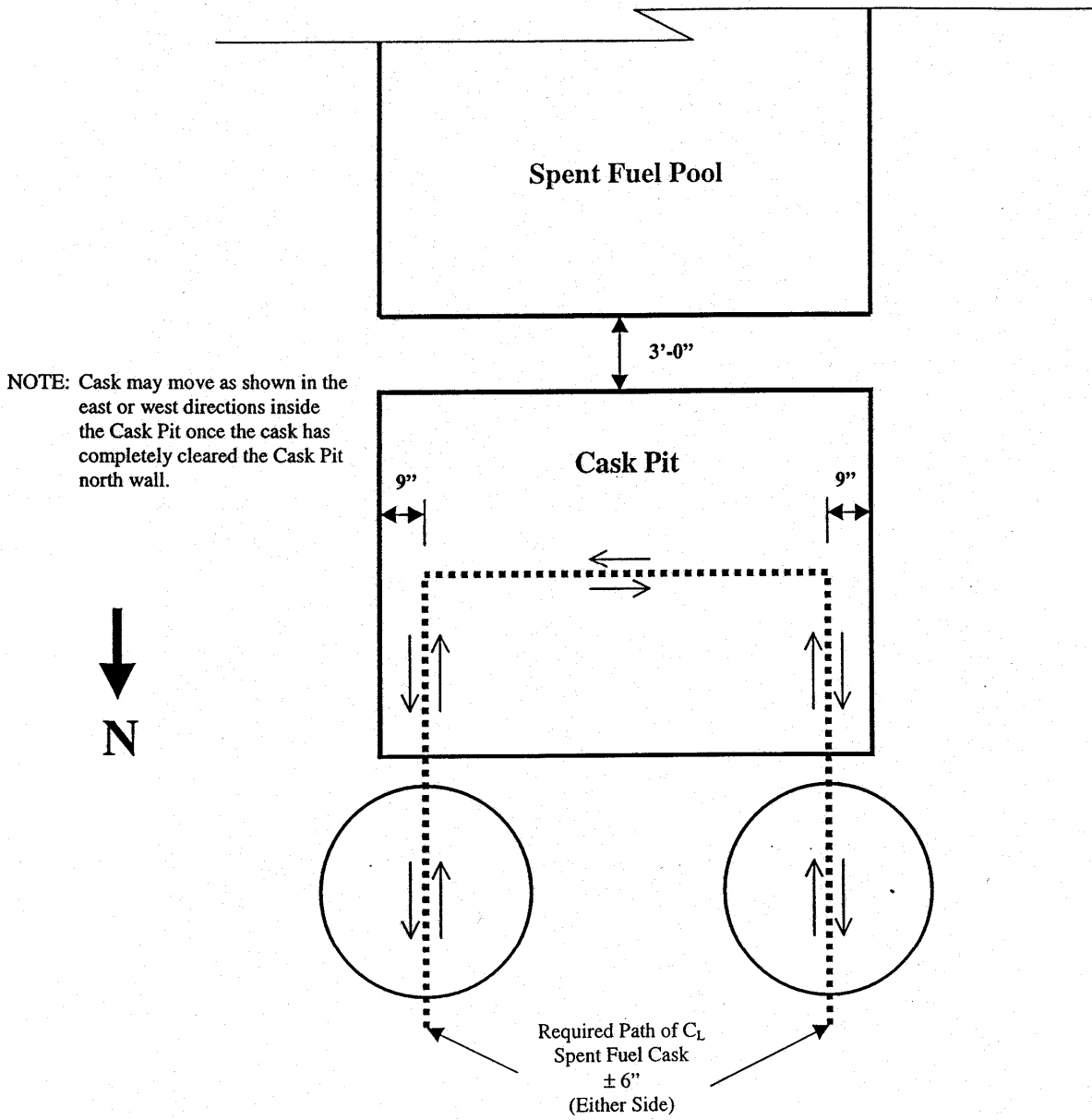


Figure 9-5. Tornado Missile Study

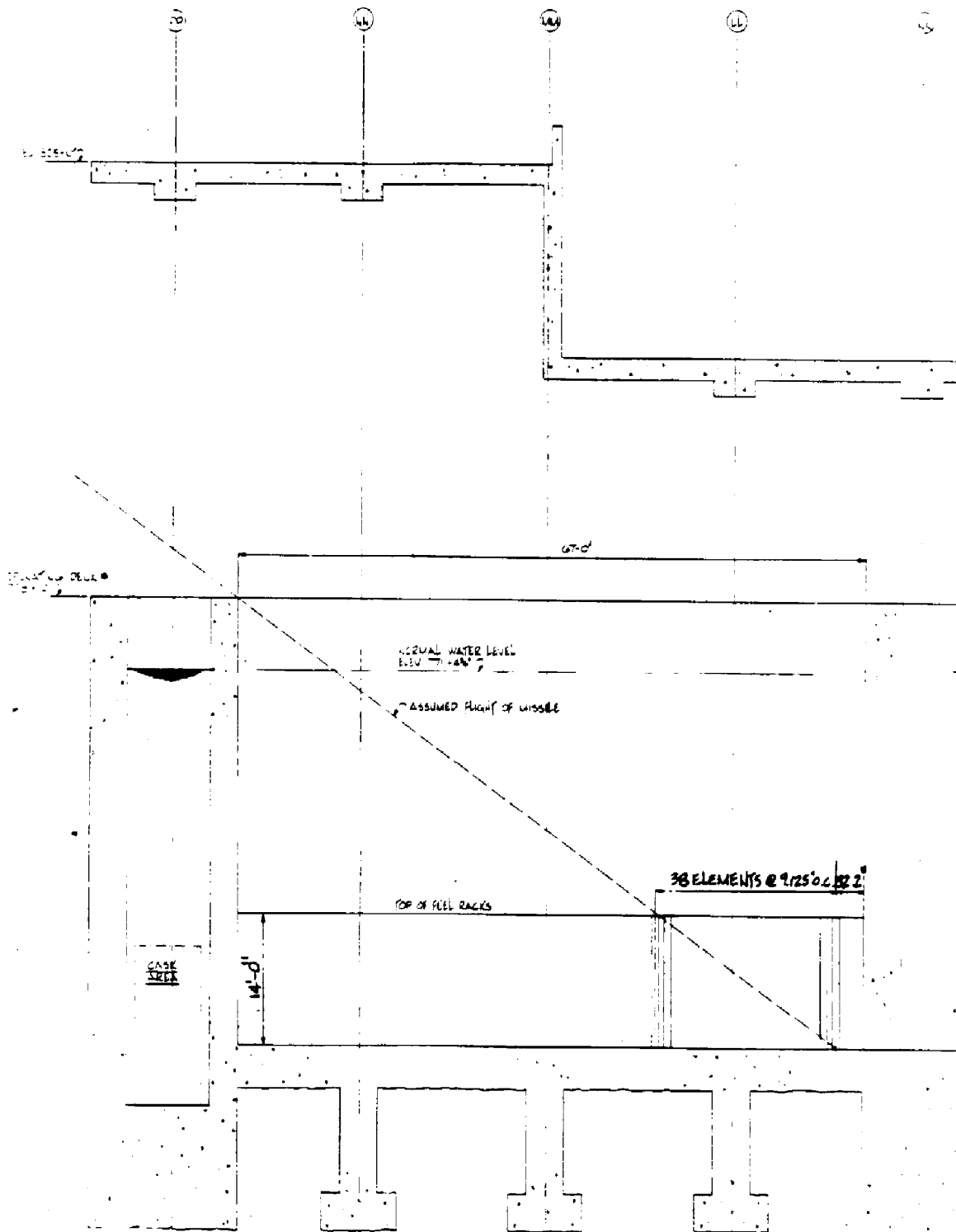




Figure 9-6. Spent Fuel Pool Arrangement Unit 1

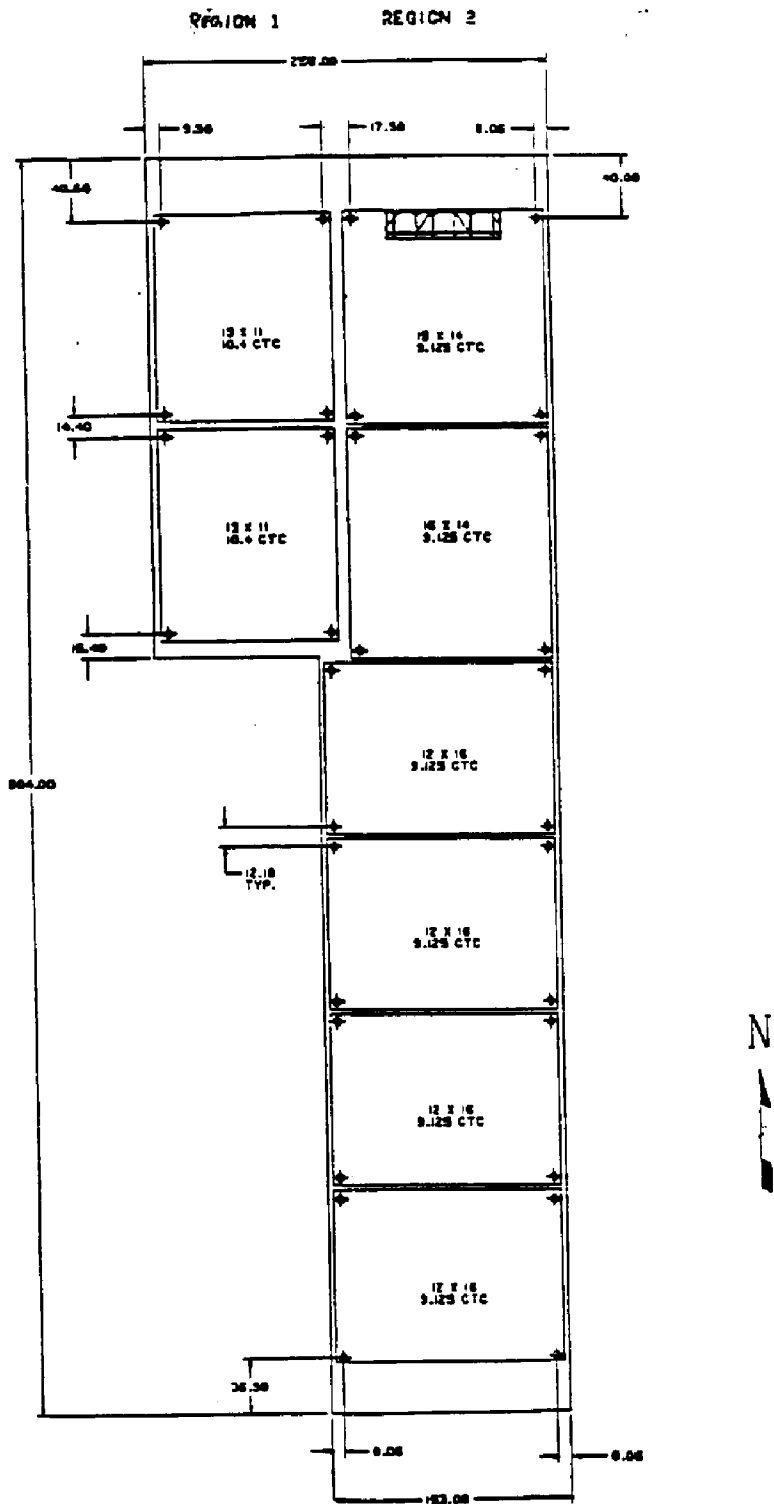
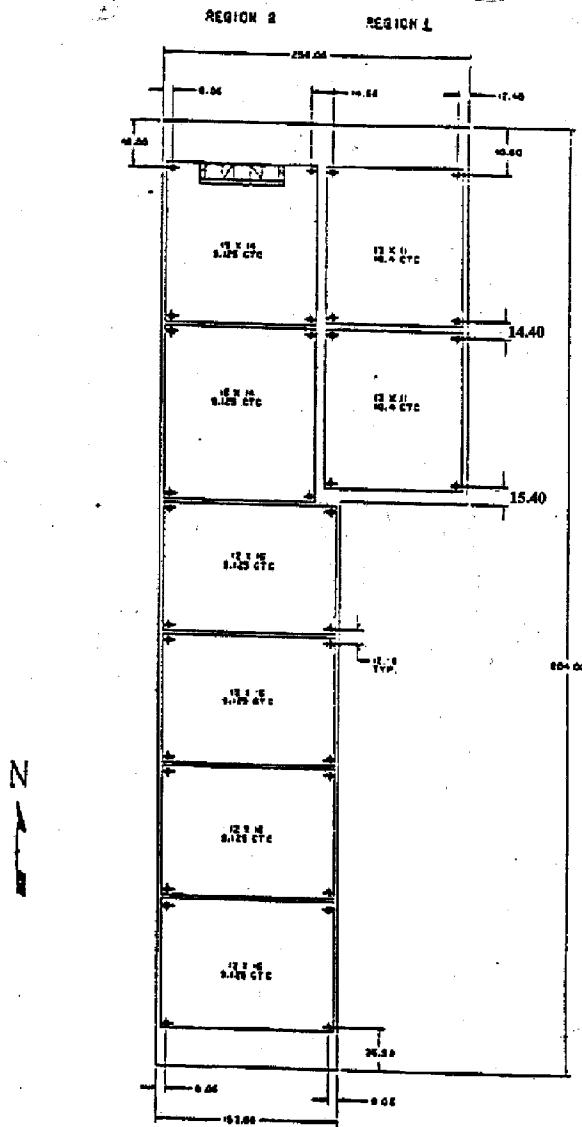


Figure 9-7. Spent Fuel Pool Arrangement Unit 2



**Figure 9-8. Deleted Per 1996 Update**

**Figure 9-9. Fuel Storage Rack Assembly (Region 1)**

**Figure 9-10. Fuel Storage Rack Module (Region 2)**

Figure 9-11. Region 1 Cell Layout

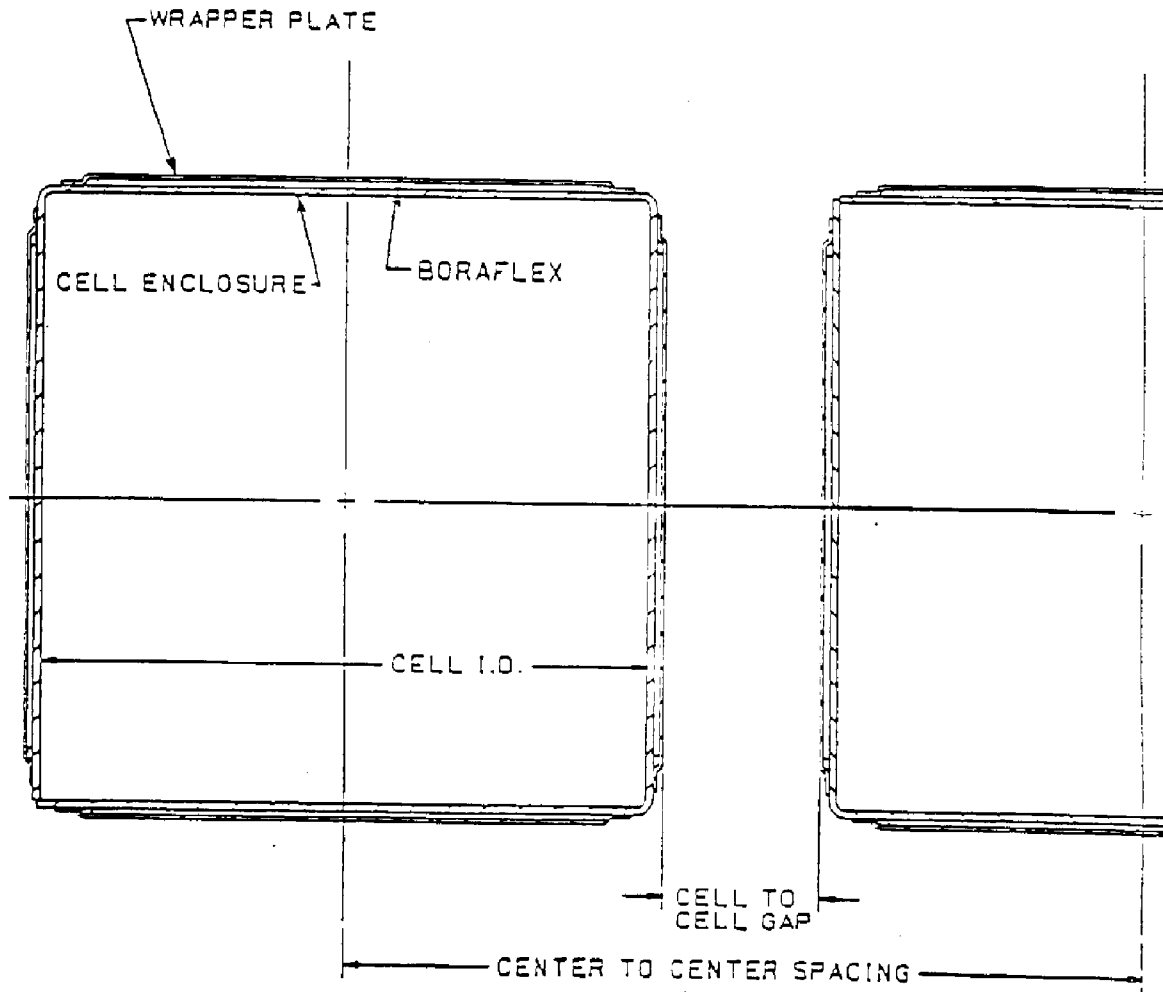


Figure 9-12. Region 2 Cell Layout

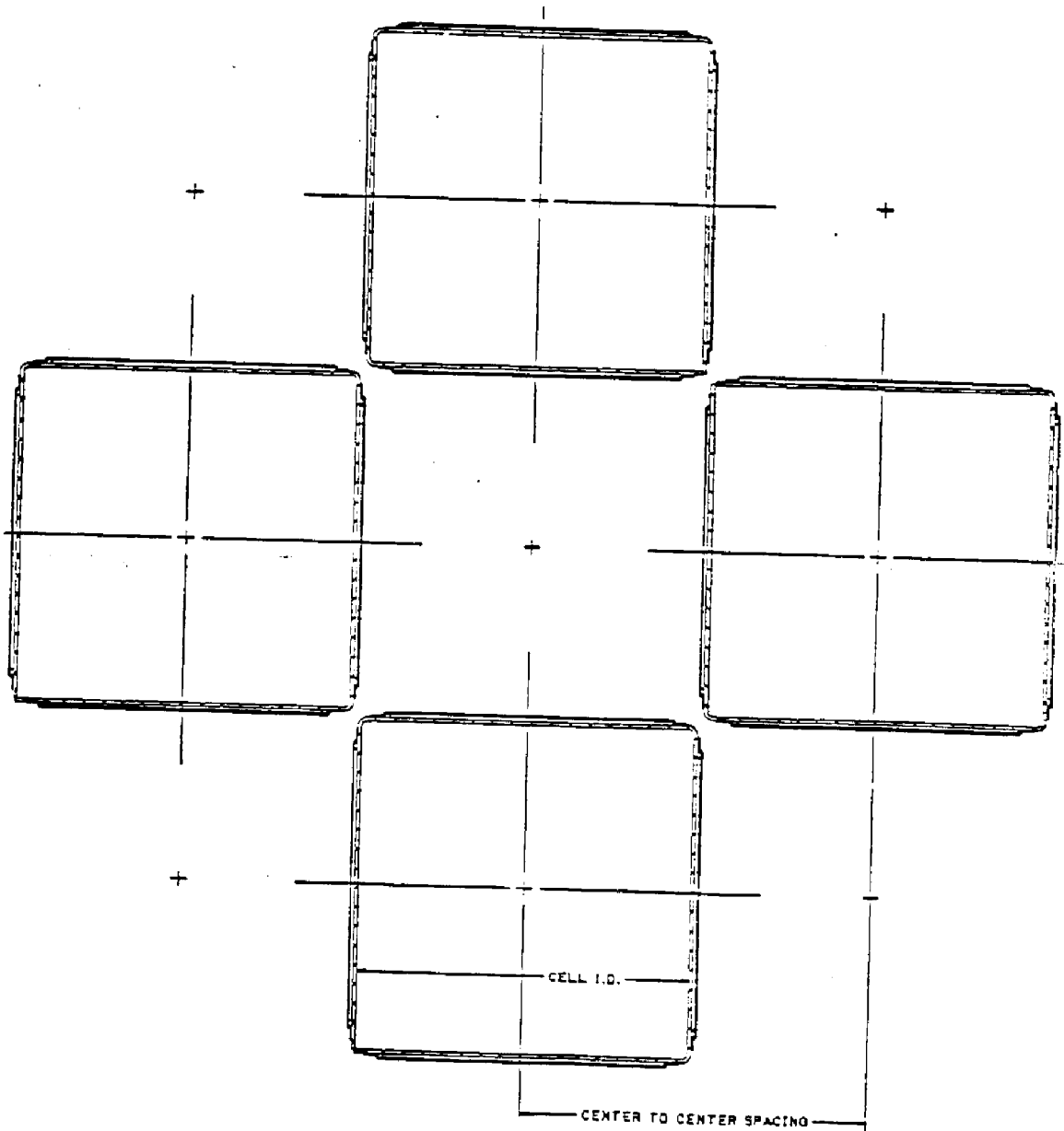


Figure 9-13. Summary Flow Diagram Spent Fuel Cooling System (KF)

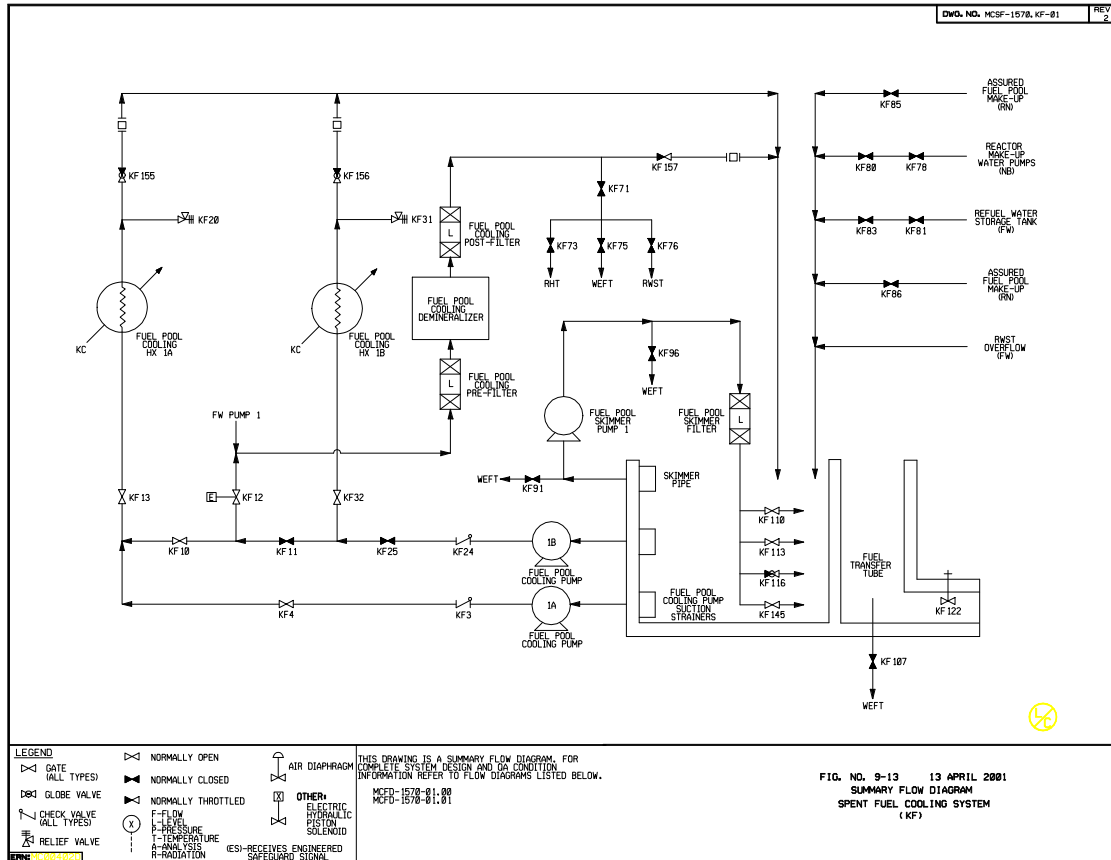
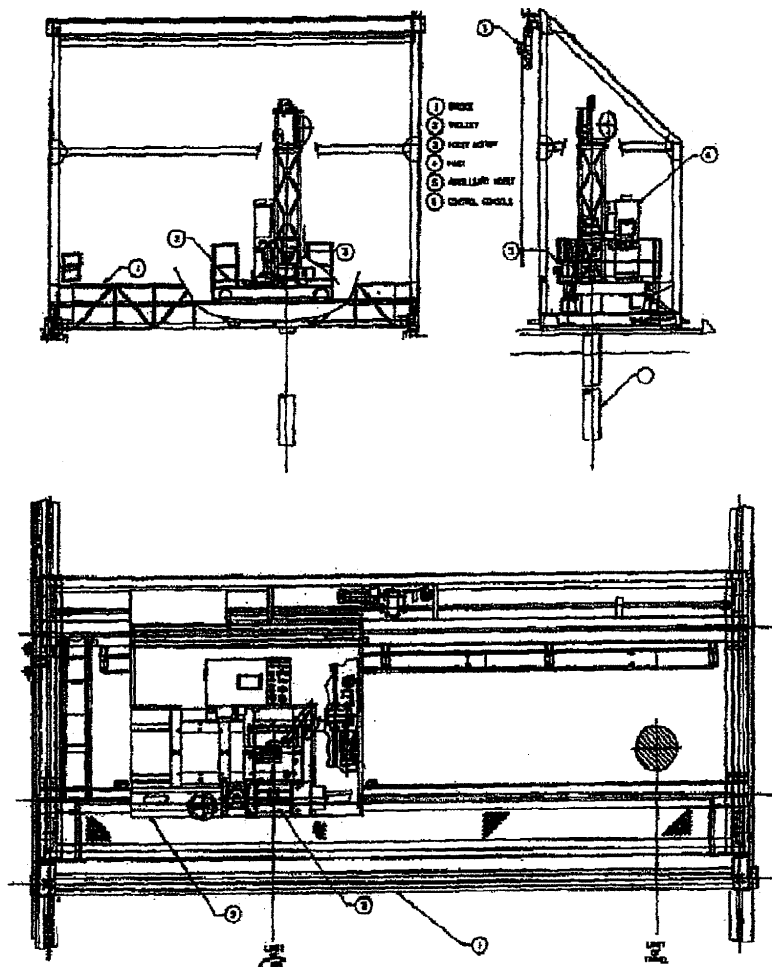




Figure 9-14. Reactor Manipulator Crane



**Figure 9-15. Deleted Per 2009 Update**

Figure 9-16. Fuel Pool Manipulator Crane

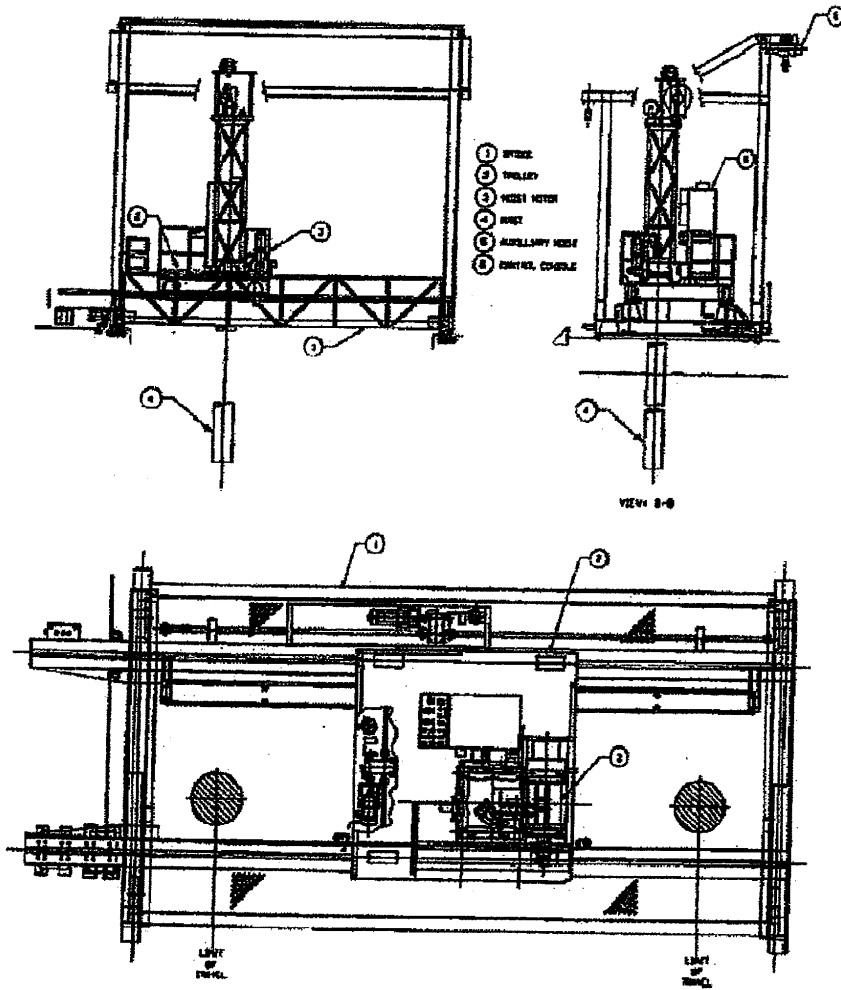


Figure 9-17. New Fuel Elevator

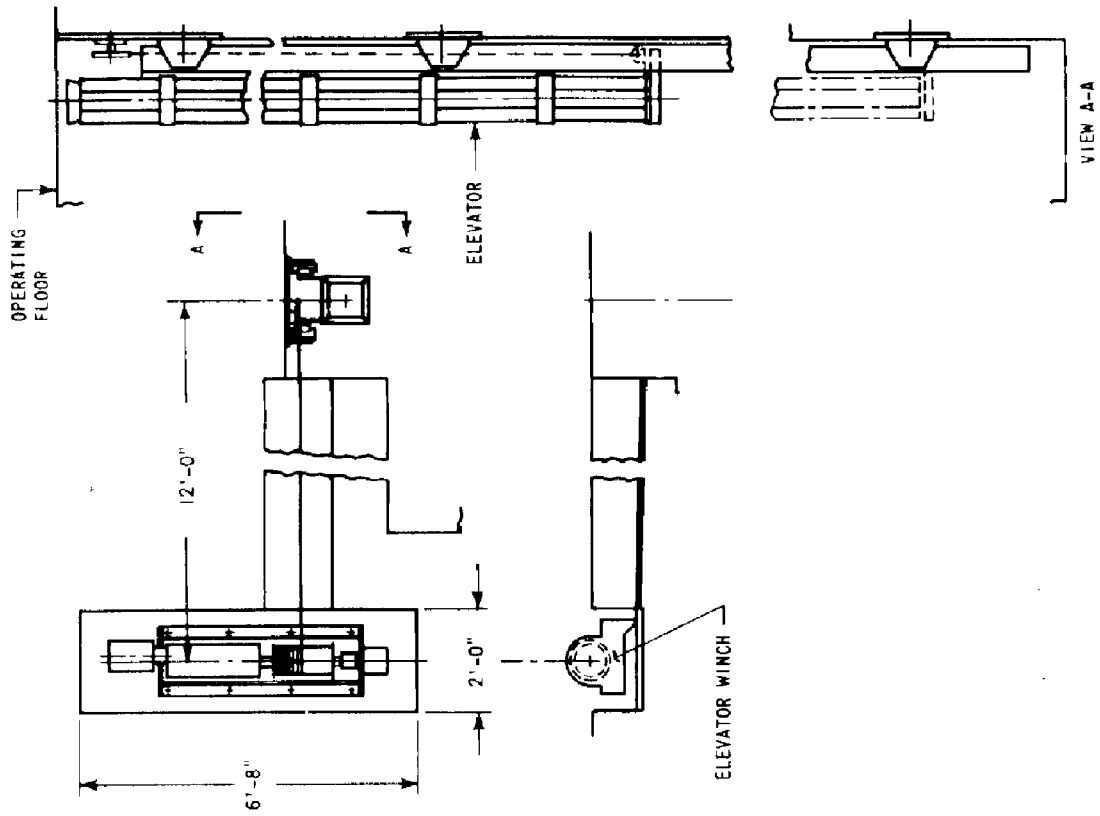


Figure 9-18. Fuel Transfer System

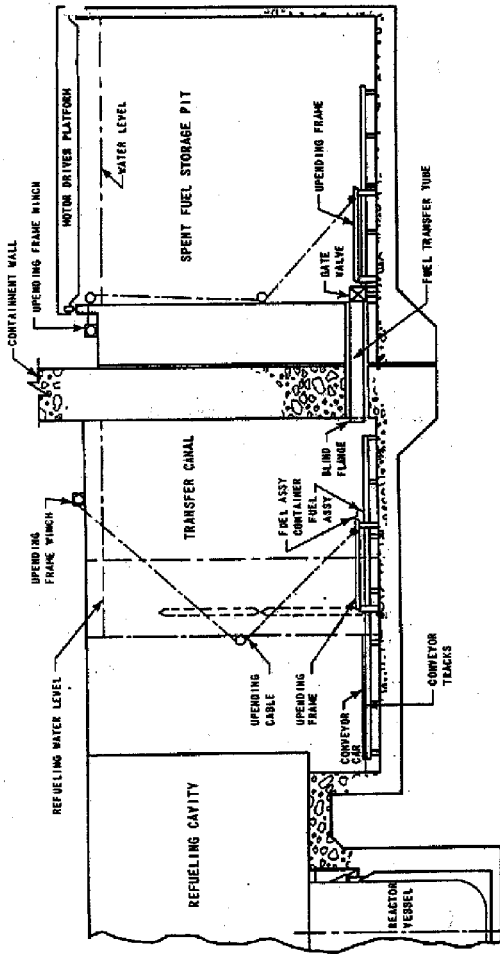


Figure 9-19. Rod Cluster Control Changing Fixture

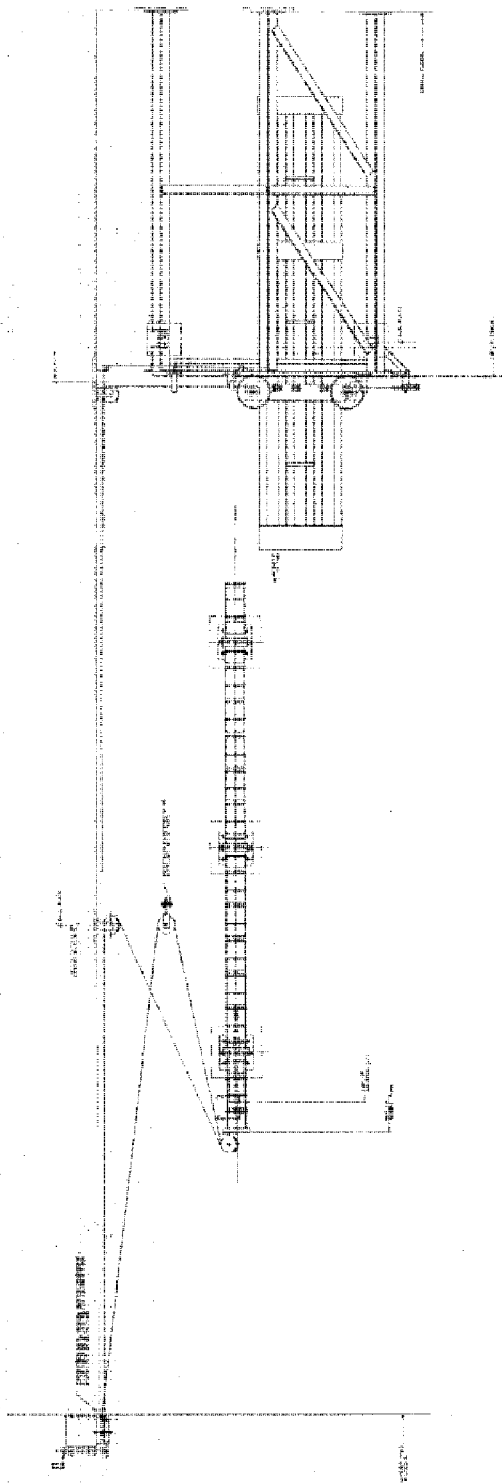


Figure 9-20. Spacer for Spent Fuel Storage

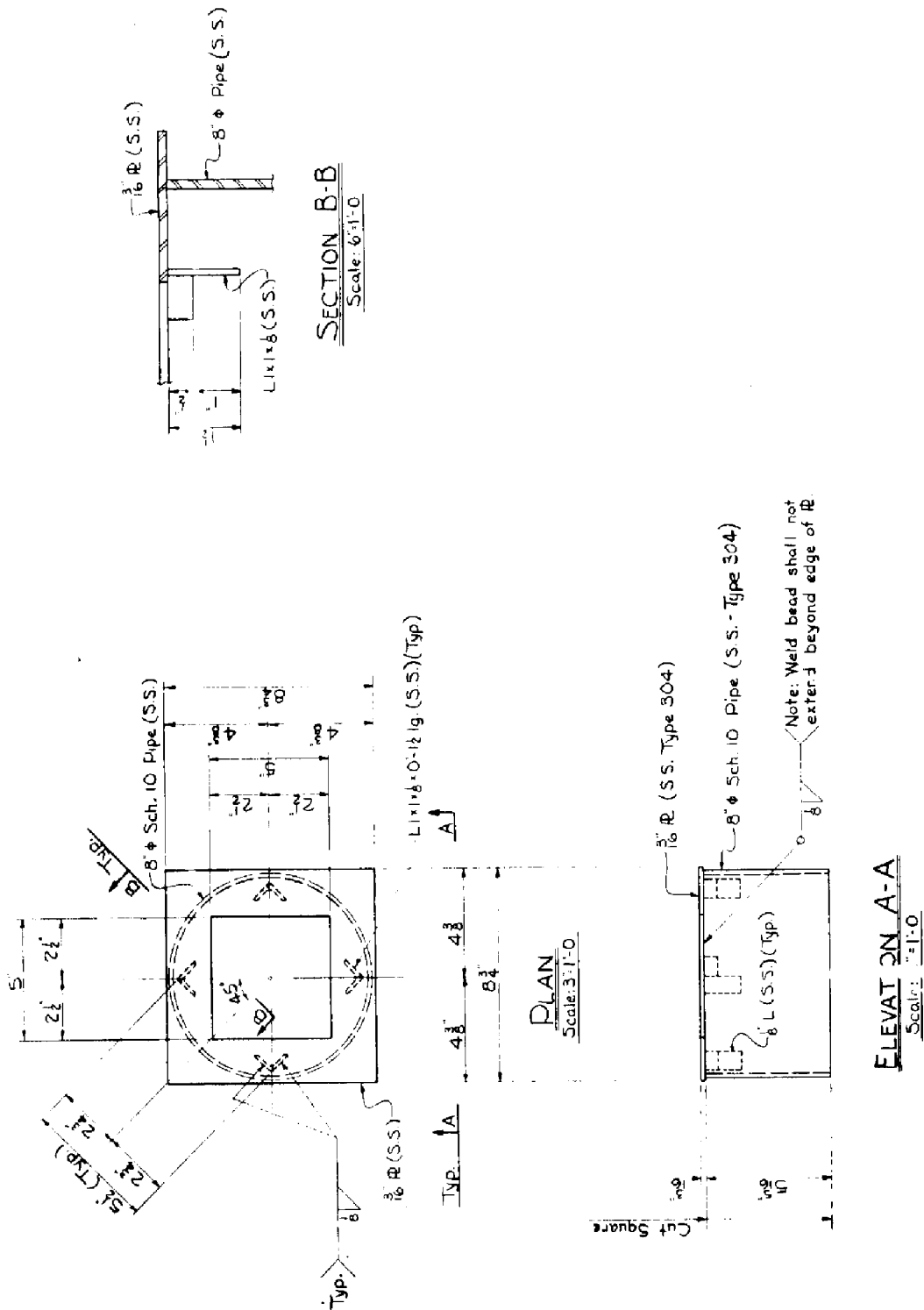


Figure 9-21. Reactor Vessel Head Lifting Device

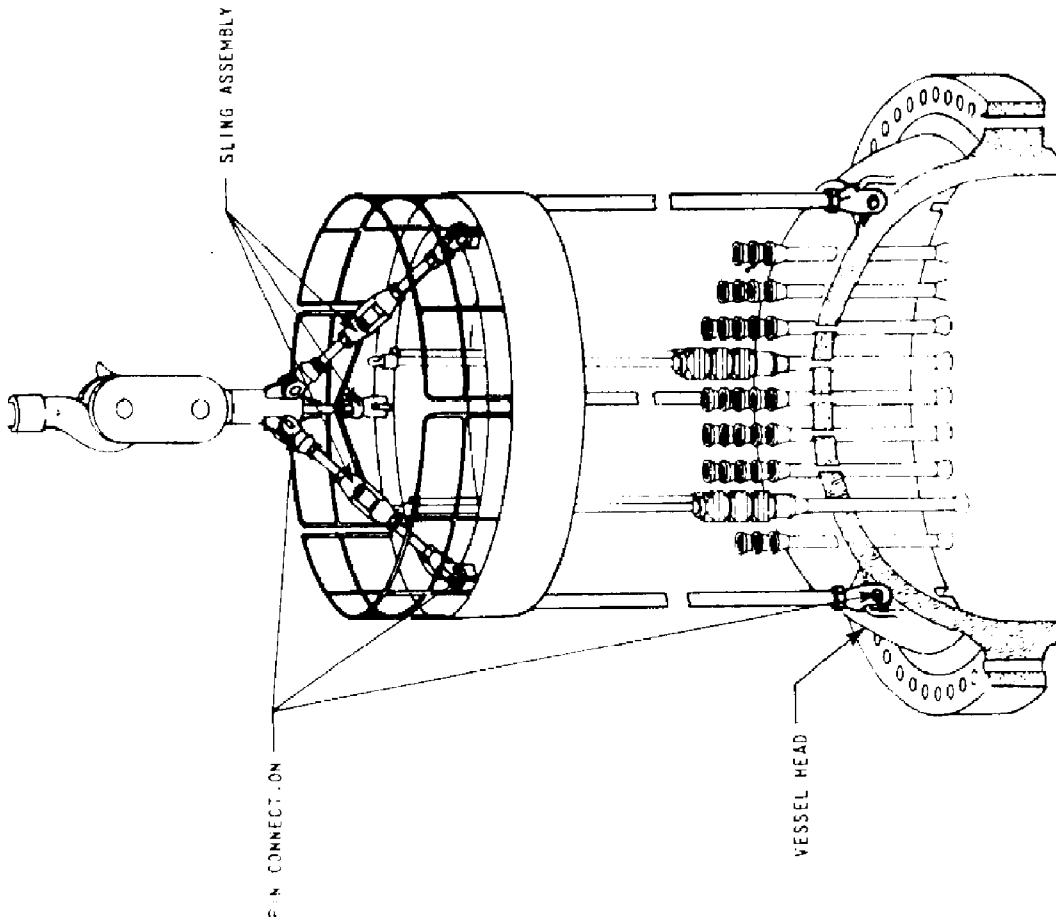
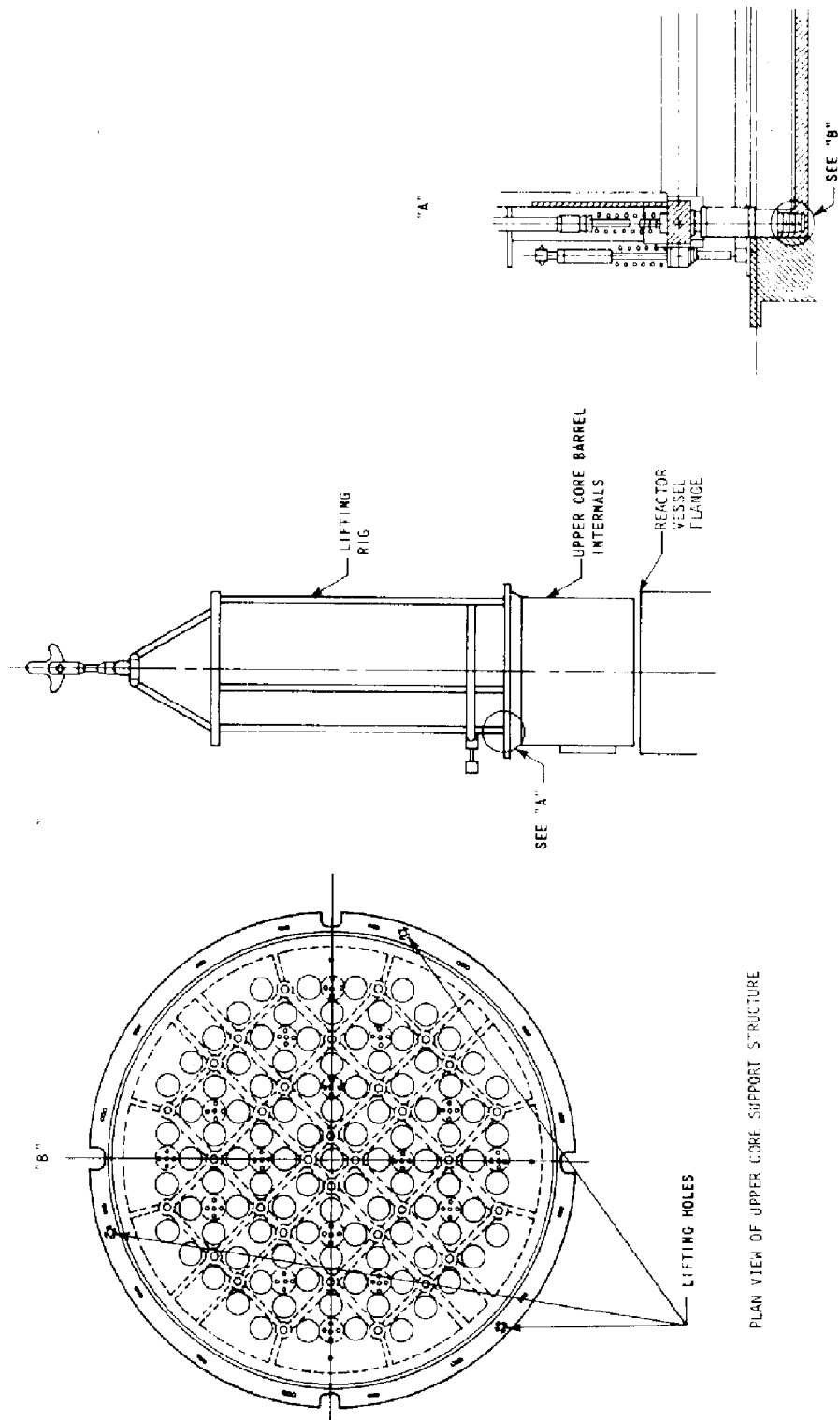




Figure 9-22. Reactor Internals Lifting Device



PLAN VIEW OF UPPER CORE SUPPORT STRUCTURE

Figure 9-23. Reactor Vessel Stud Tensioner

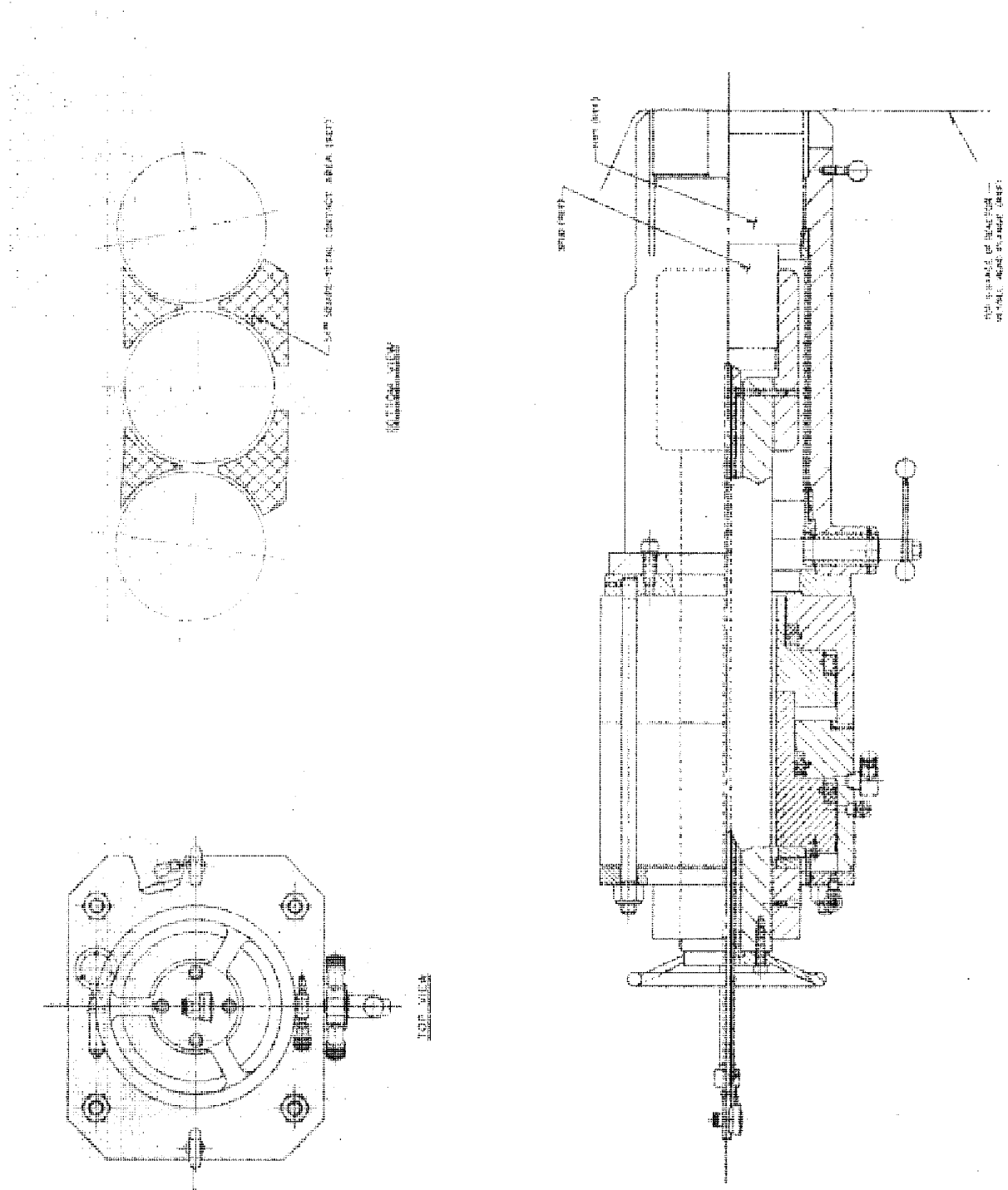


Figure 9-24. Auxiliary and Reactor Building Refueling Canal Layout/Longitudinal Section

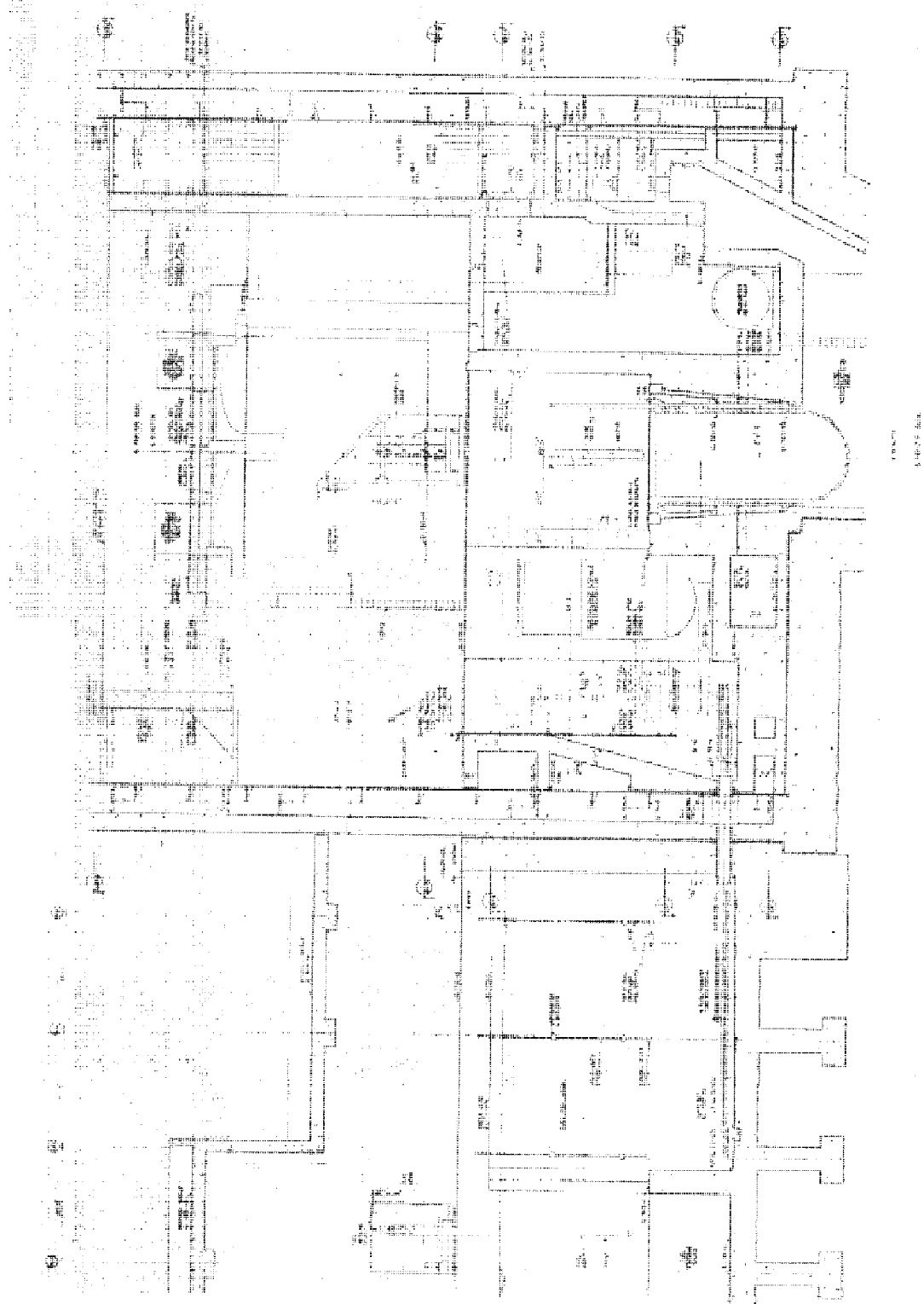


Figure 9-25. Flow Diagram of Recirculated Cooling Water System

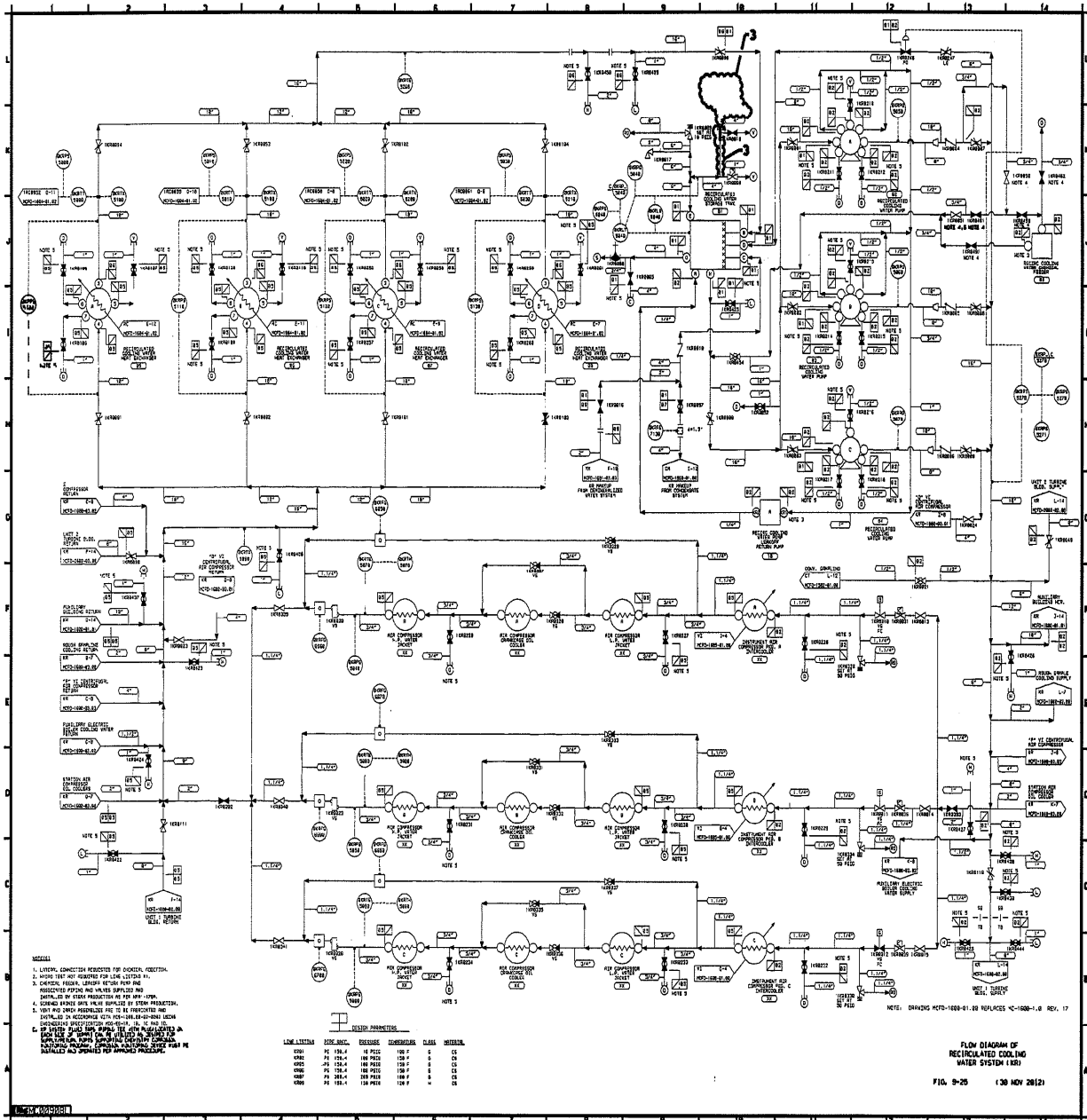


Figure 9-26. Flow Diagram of Recirculated Cooling Water System (KR)

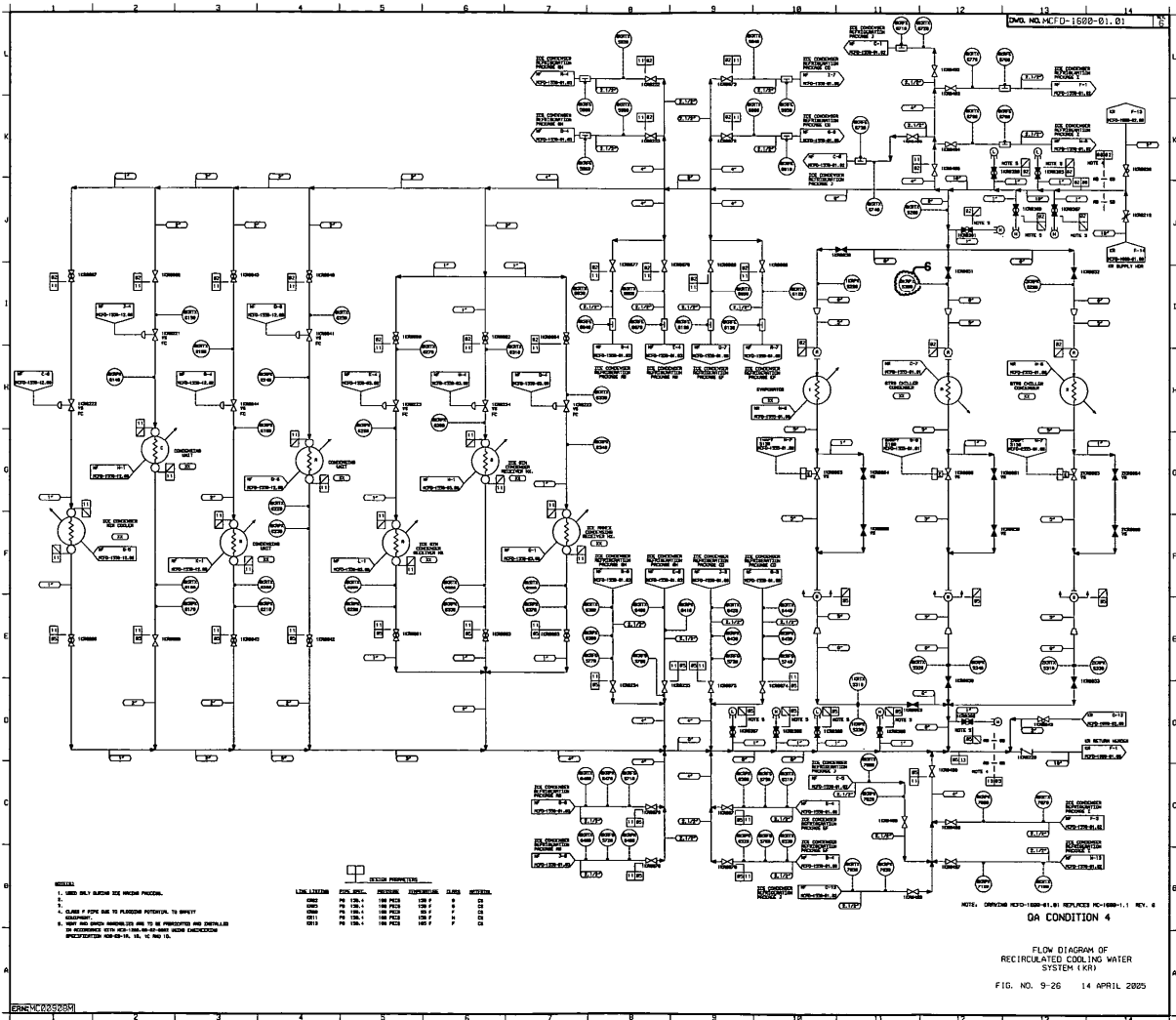


Figure 9-27. Flow Diagram of Recirculated Cooling Water System (KR)

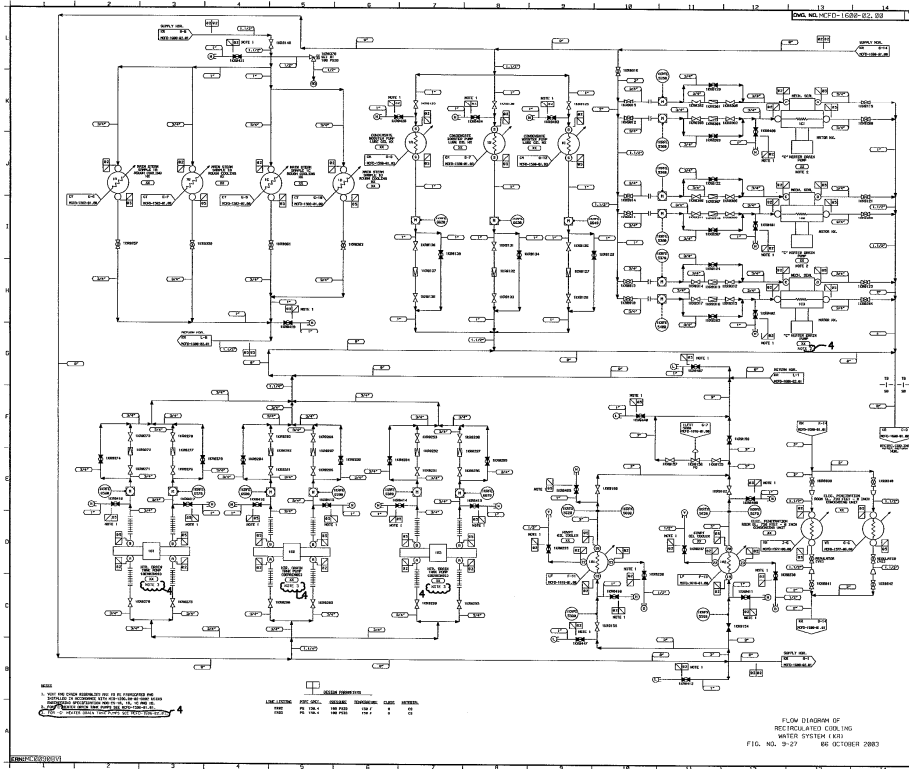


Figure 9-28. Flow Diagram of Recirculated Cooling Water System (KR)

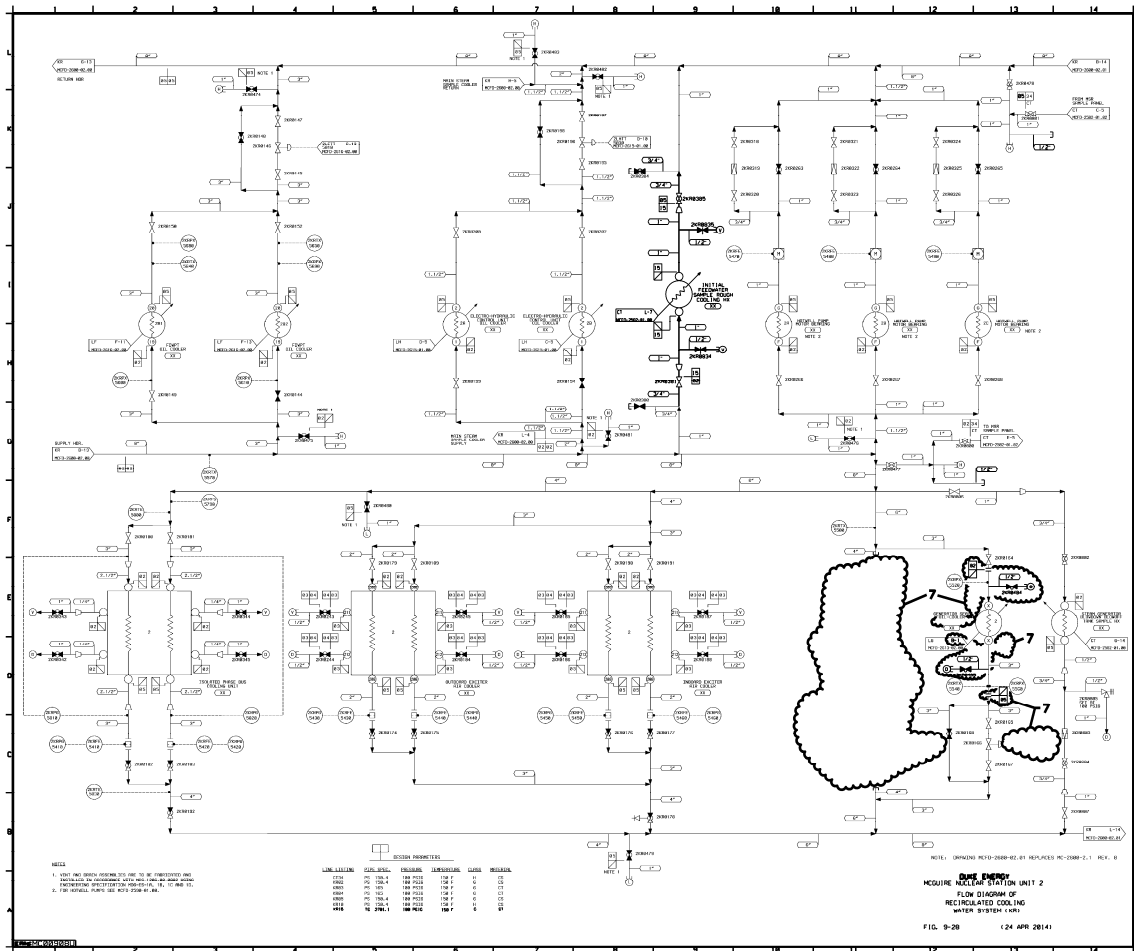


Figure 9-29. Flow Diagram of Recirculated Cooling Water System (KR)

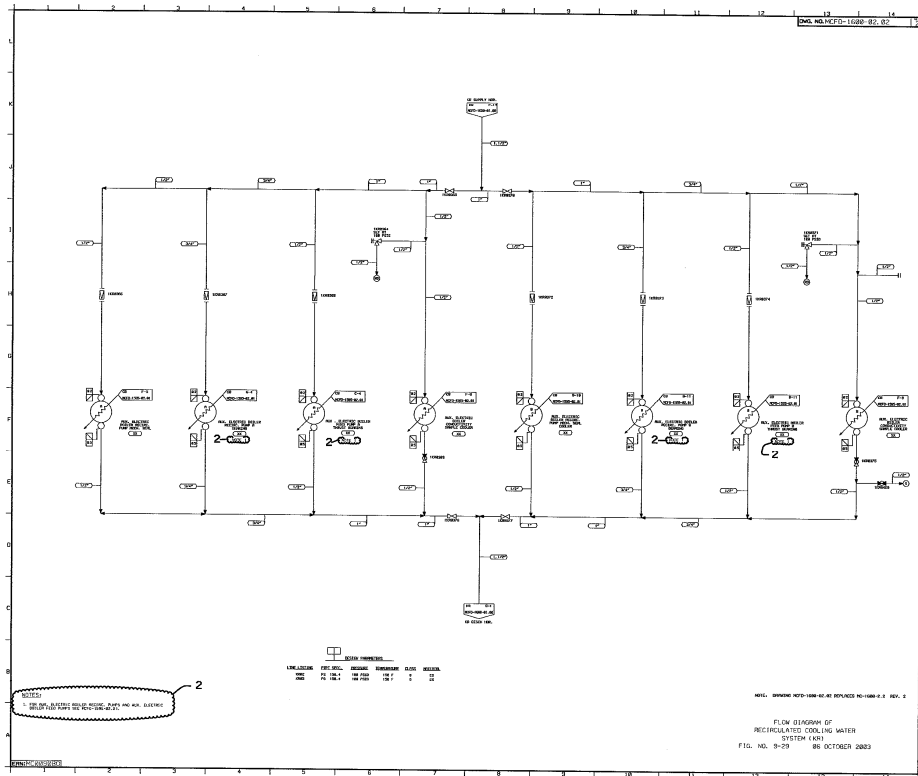




Figure 9-30. Flow Diagram of Recirculated Cooling Water System (KR)

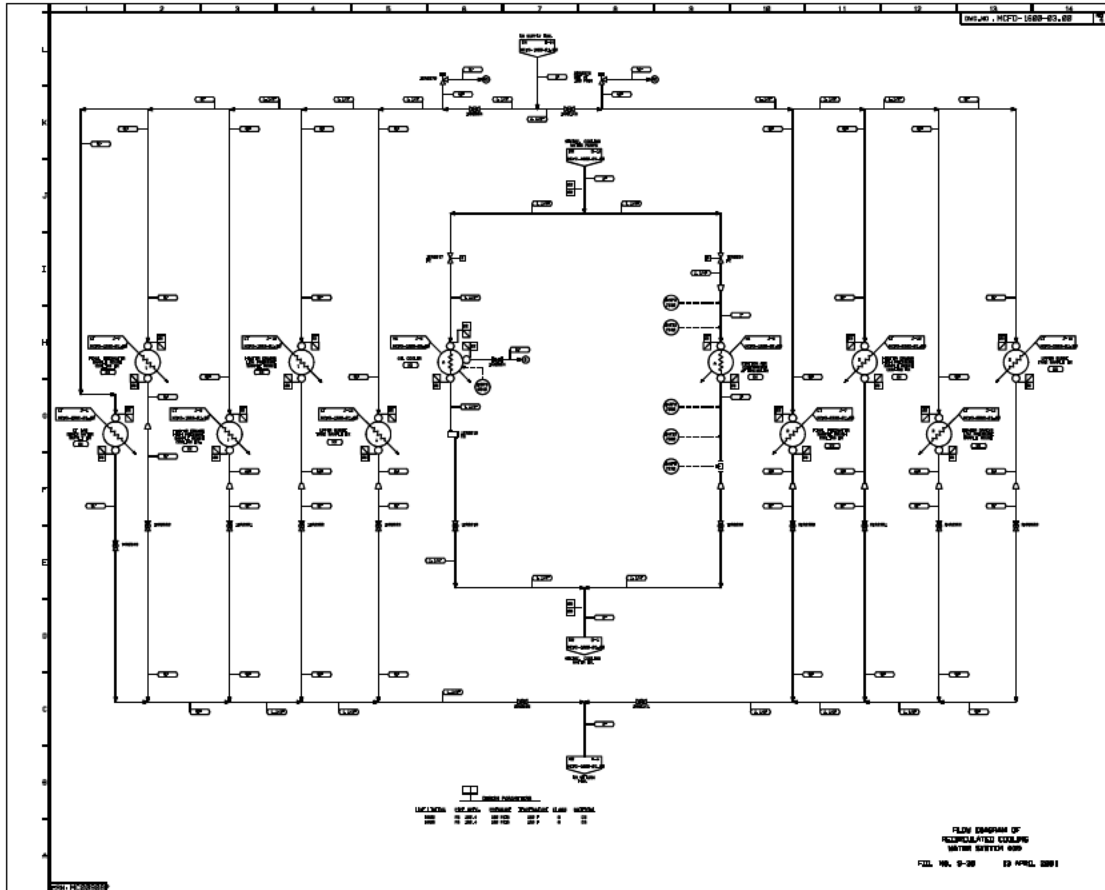


Figure 9-31. Nuclear Service Water System (RN)

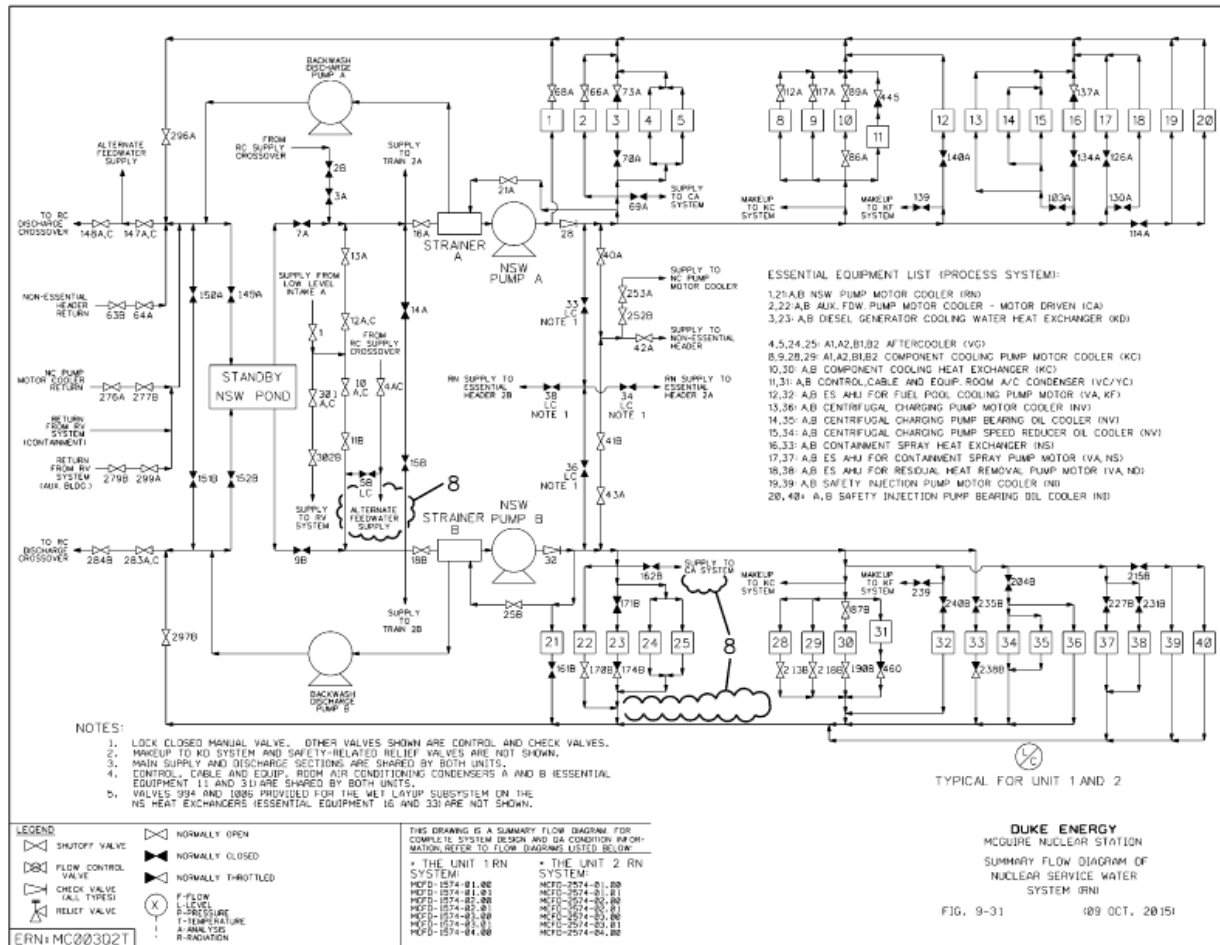


Figure 9-32. Deleted Per 1993 Update

Figure 9-33. Deleted Per 1993 Update

Figure 9-34. Deleted Per 1993 Update

Figure 9-35. Deleted Per 1993 Update

Figure 9-36. Deleted Per 1993 Update

Figure 9-37. Deleted Per 1993 Update

Figure 9-38. Deleted Per 1991 Update

Figure 9-39. Residual Decay Heat

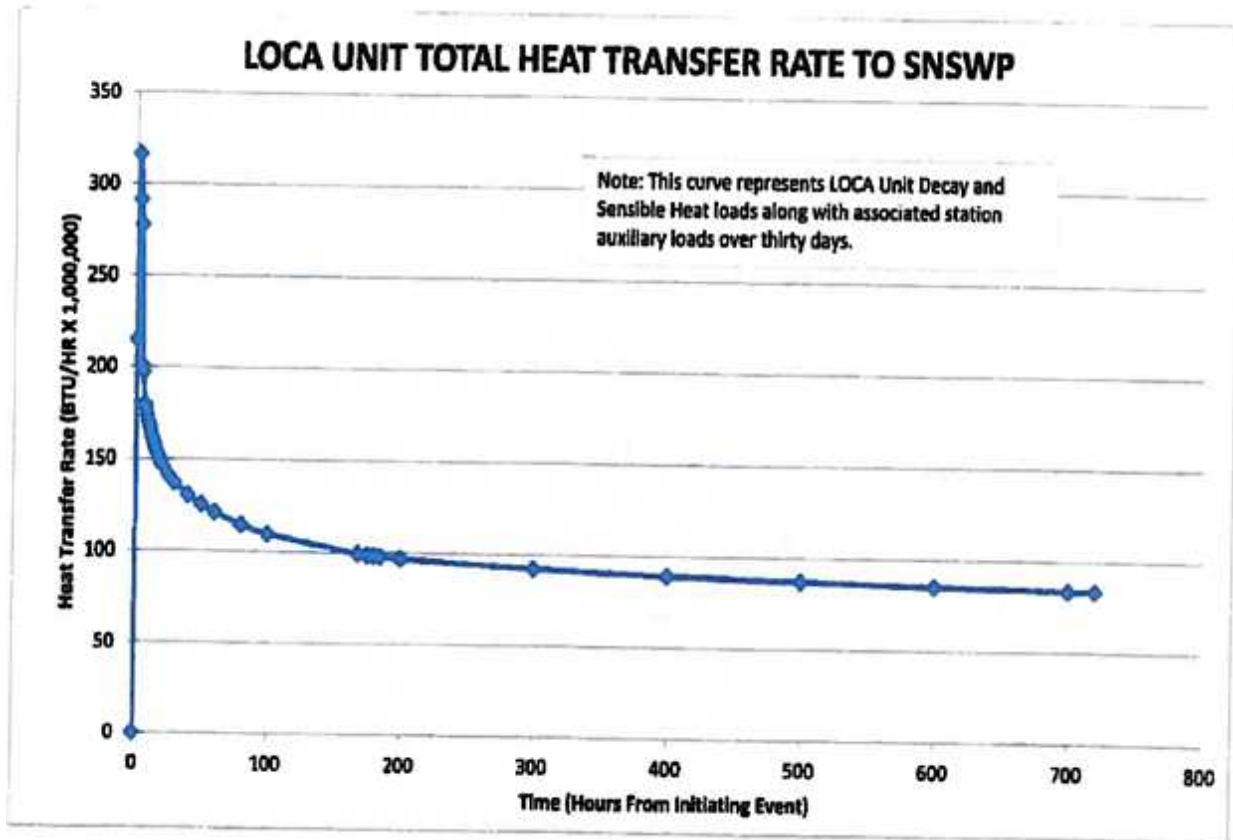


Figure 9-40. Residual Decay Heat

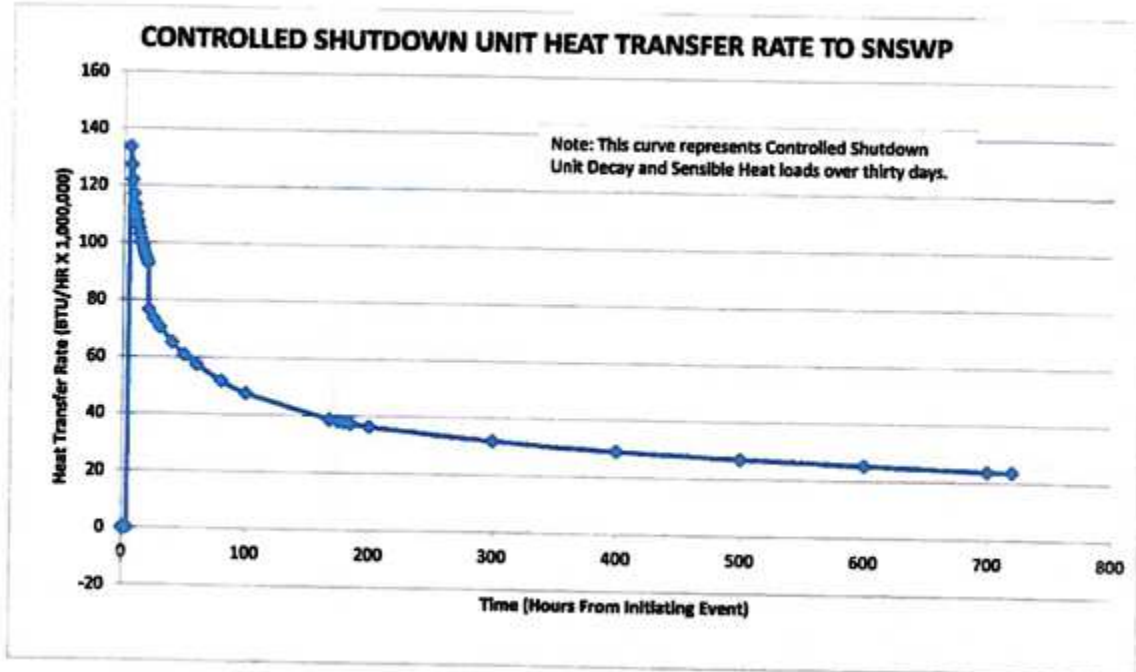


Figure 9-41. Total Heat Rejected

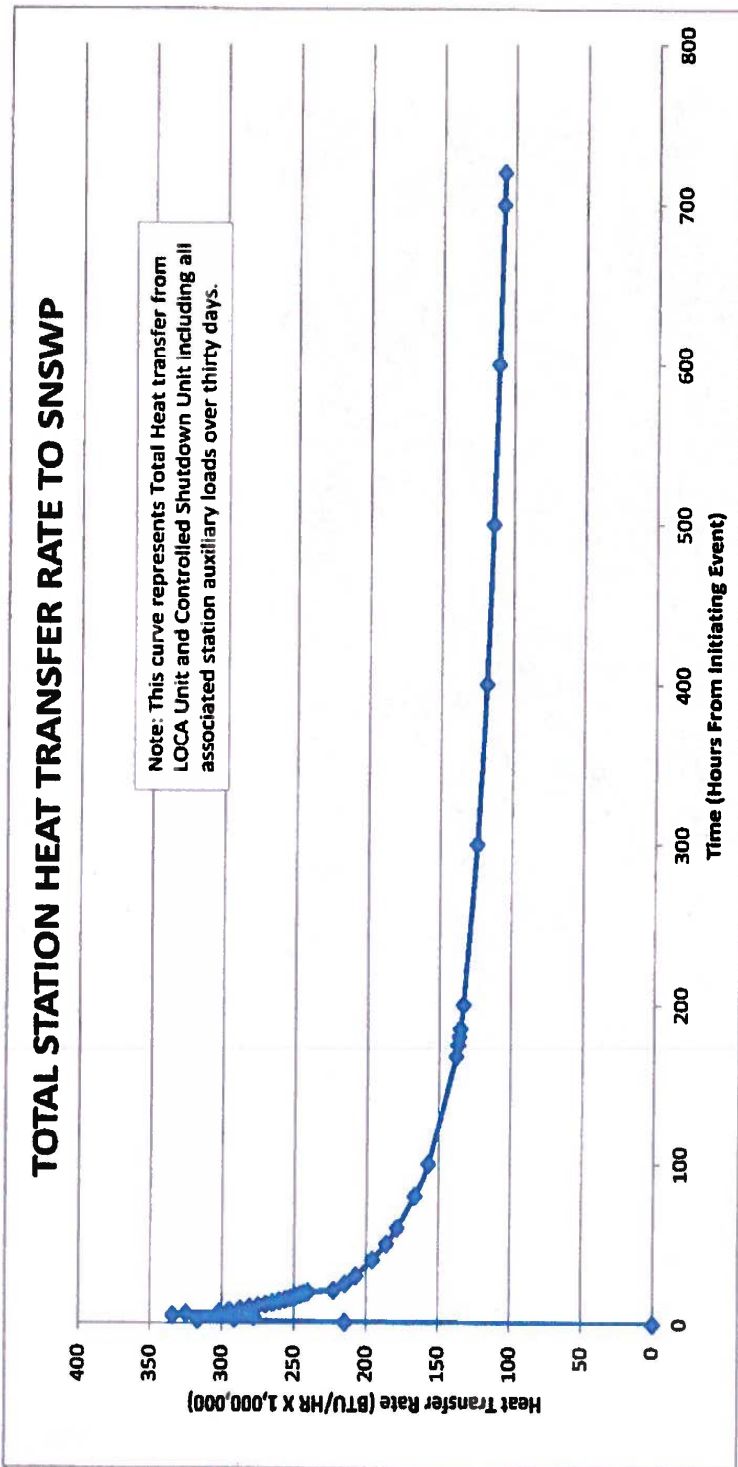


Figure 9-42. Standby Nuclear Service Water Pond Area/Volume Curve

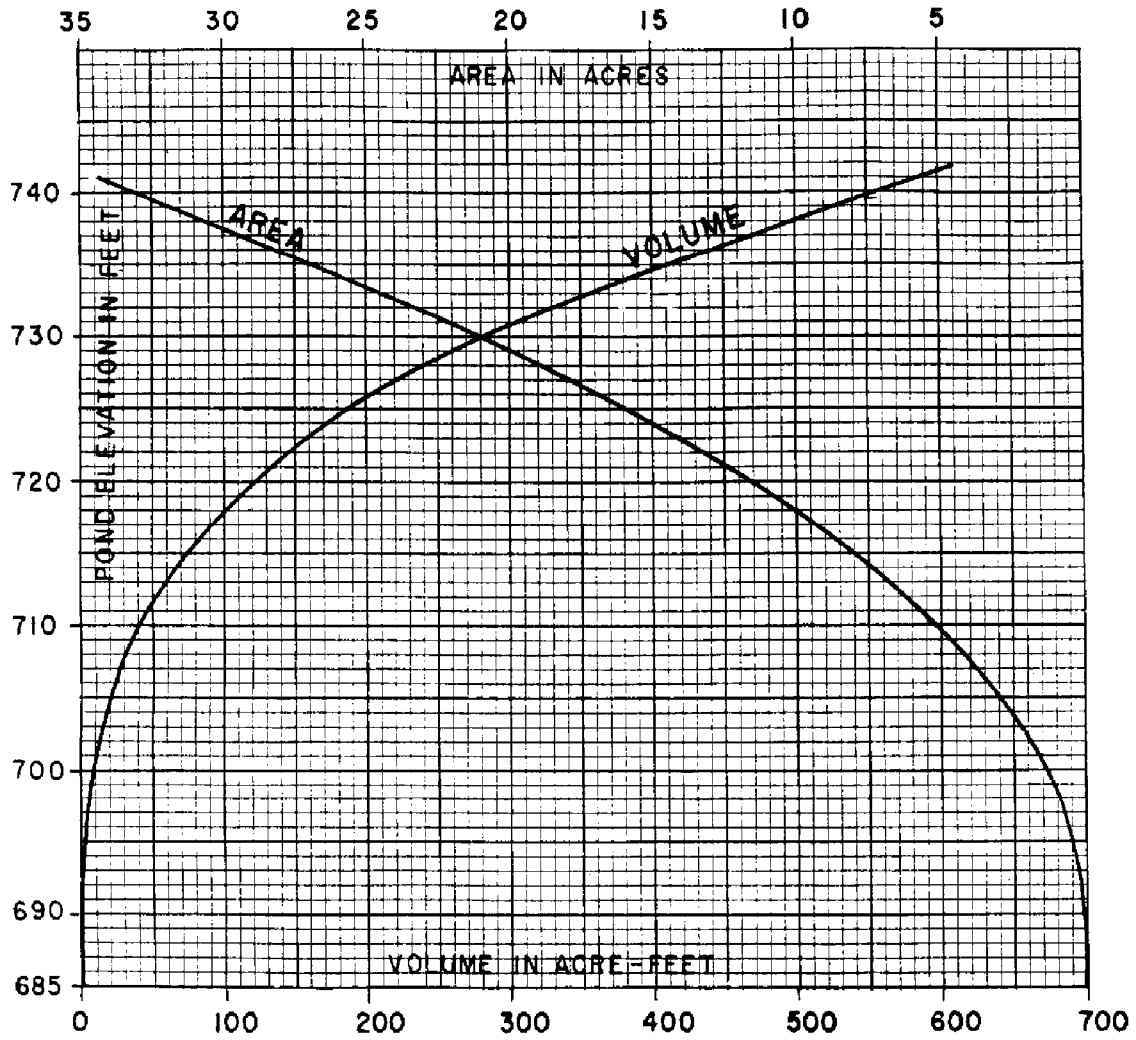


Figure 9-43. Low Level Nuclear Service Water Pipe and Standby Nuclear Service Water Pipe Routing Plan

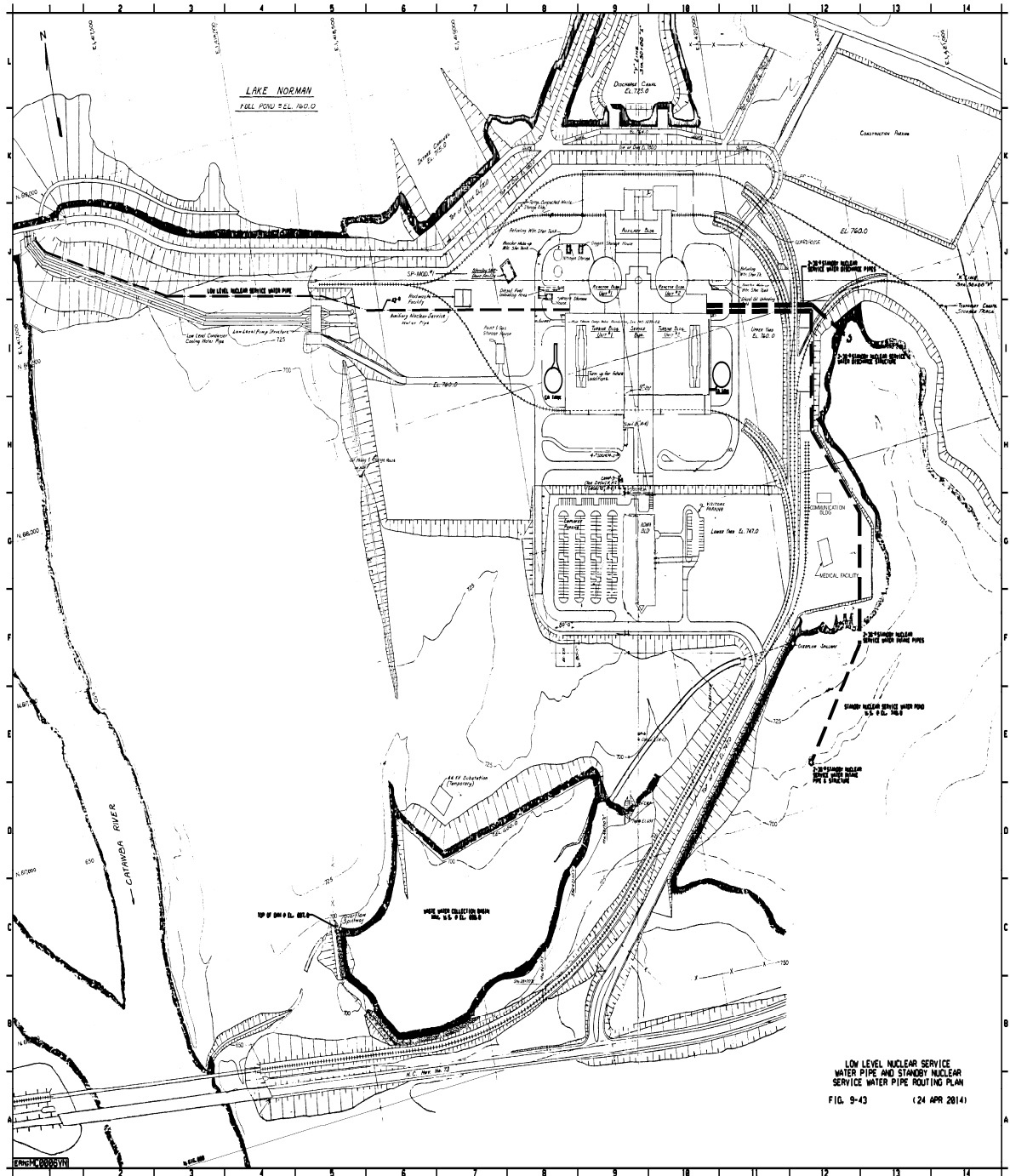




Figure 9-44. Profile of Standby Nuclear Service Water Pipes

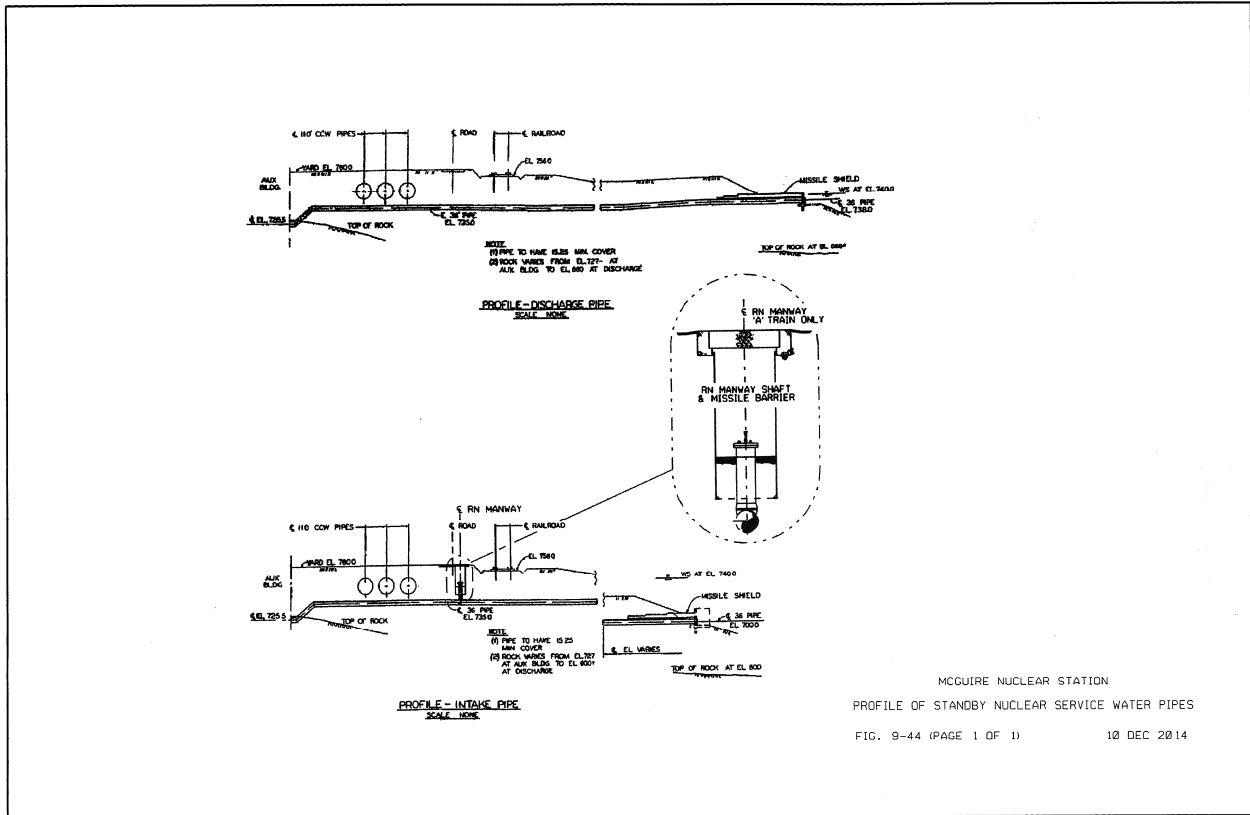


Figure 9-45. Profile of Low Level Nuclear Service Water Pipe

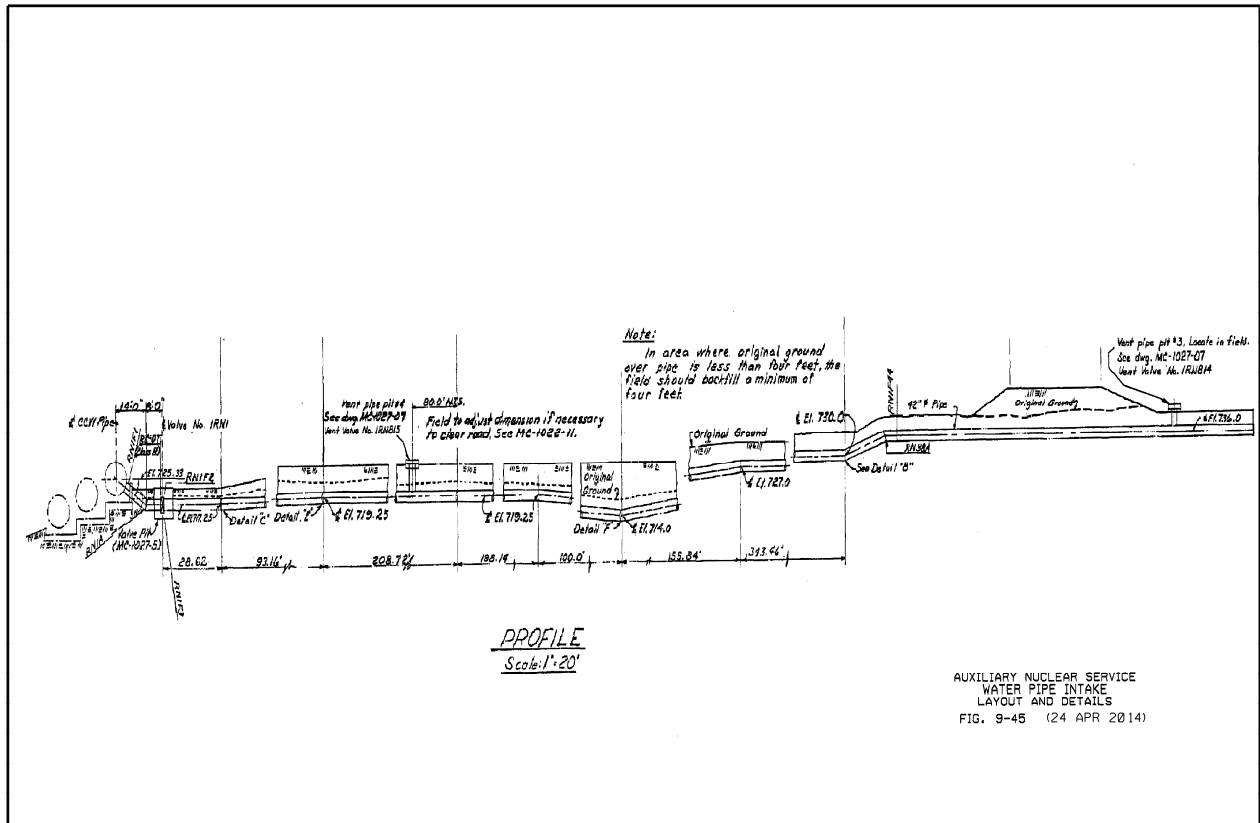


Figure 9-46. Deleted Per 2012 Update

Figure 9-47. Deleted Per 2012 Update

Figure 9-48. Deleted Per 2012 Update

Figure 9-49. Deleted Per 2012 Update

Figure 9-50. Deleted Per 2012 Update

Figure 9-51. Deleted Per 2012 Update

Figure 9-52. Deleted Per 2012 Update

Figure 9-53. Deleted Per 2012 Update

Figure 9-54. Flow Diagram of Conventional Low Pressure Service Water System (RL)

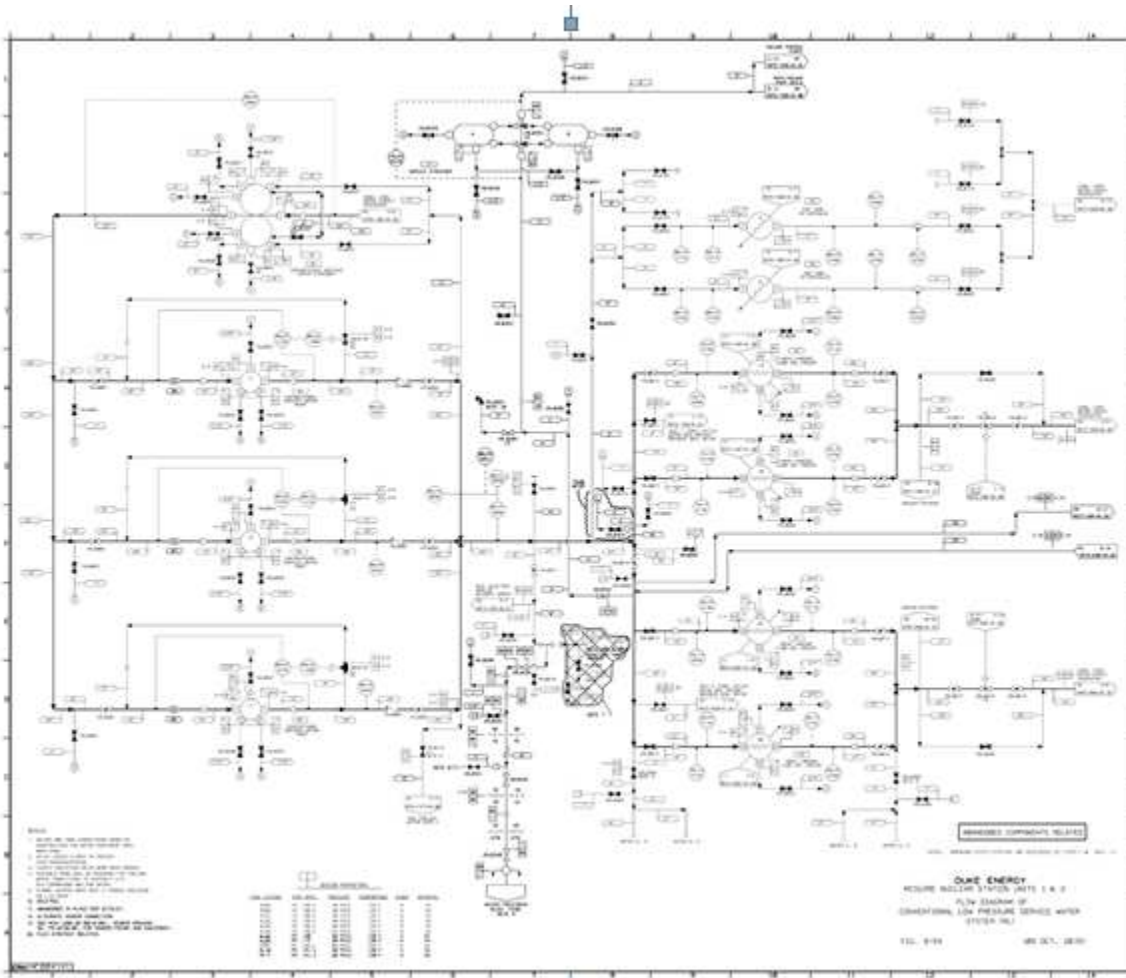


Figure 9-55. Flow Diagram of Conventional Low Pressure Water System (RL) (Service Bldg. Cooling Coils)

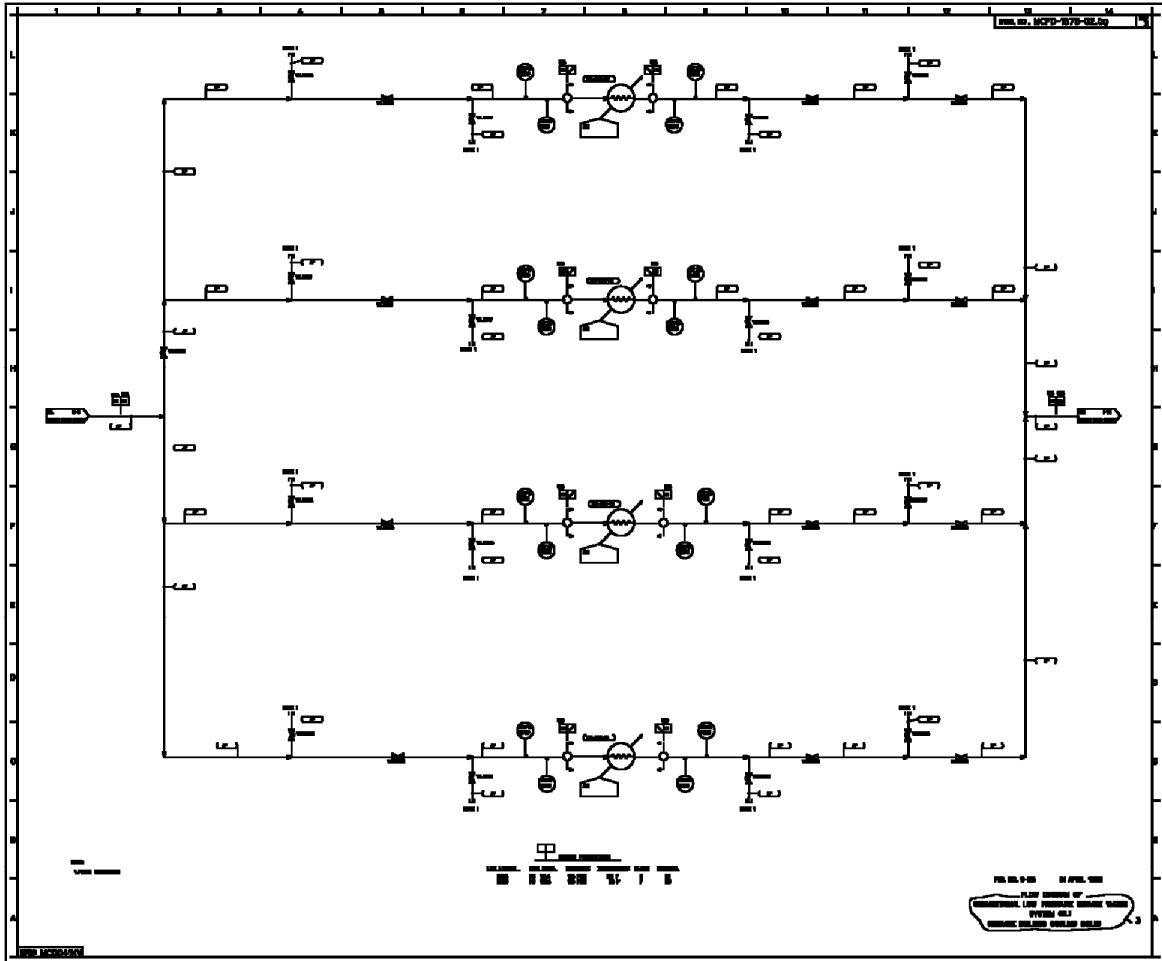


Figure 9-56. Flow Diagram of Conventional Low Pressure Service Water System (RL)

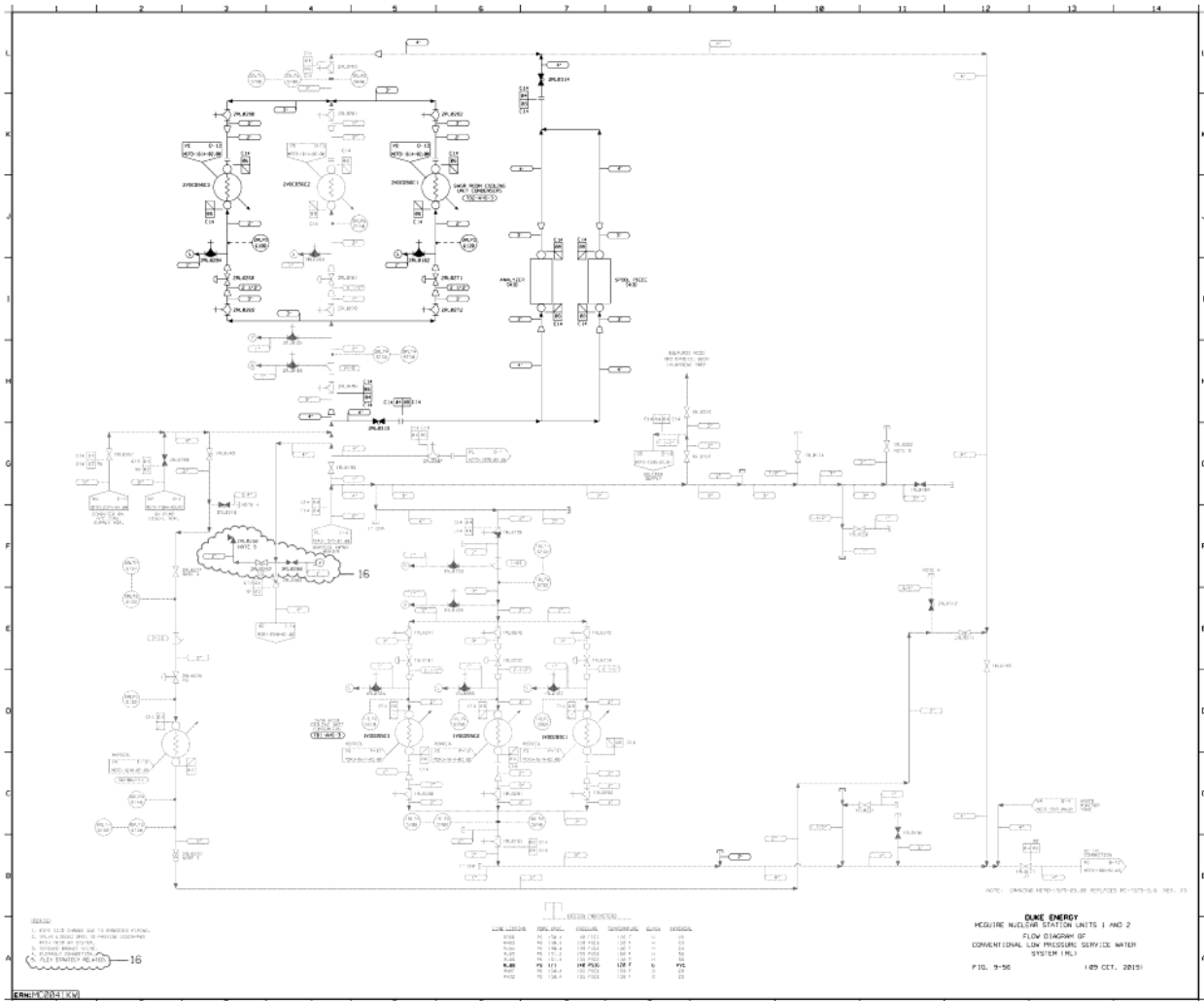


Figure 9-57. Component Cooling System

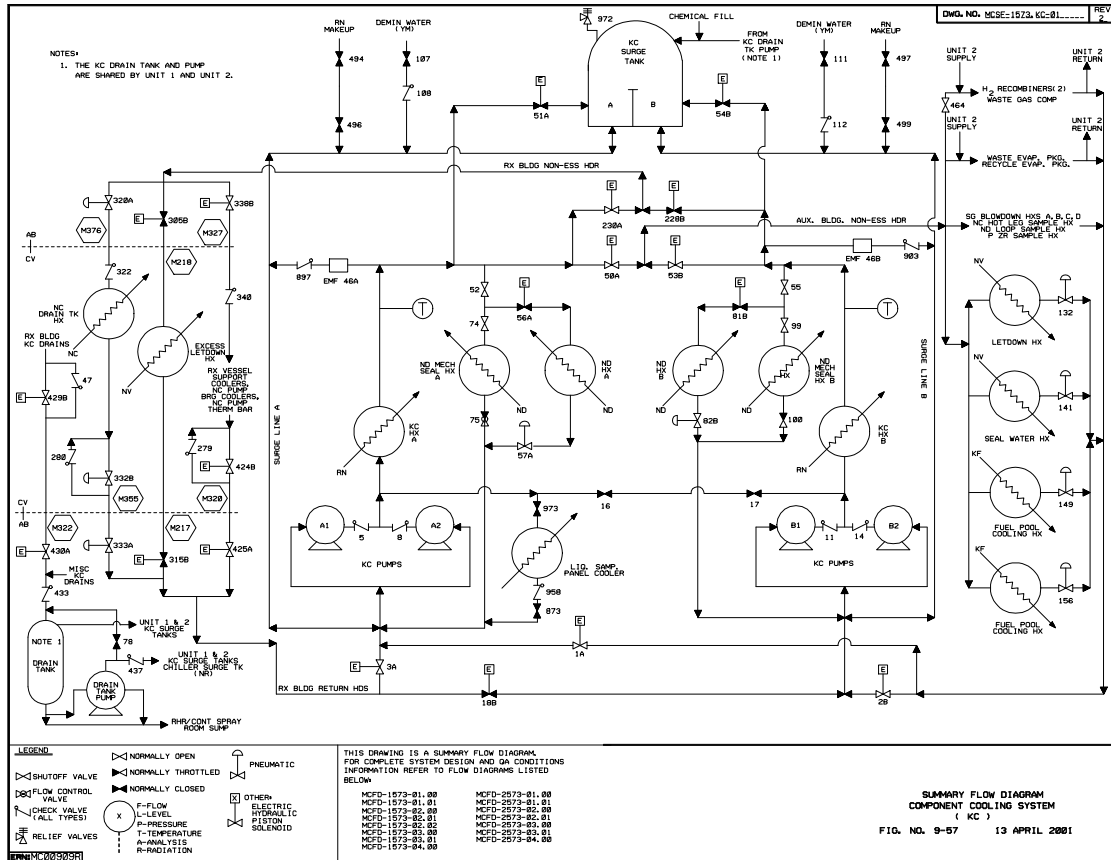


Figure 9-58. Deleted Per 1996 Update

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Figure 9-63. Deleted Per 1996 Update

Figure 9-64. Deleted Per 1996 Update



Figure 9-65. Refueling Water System (FW)

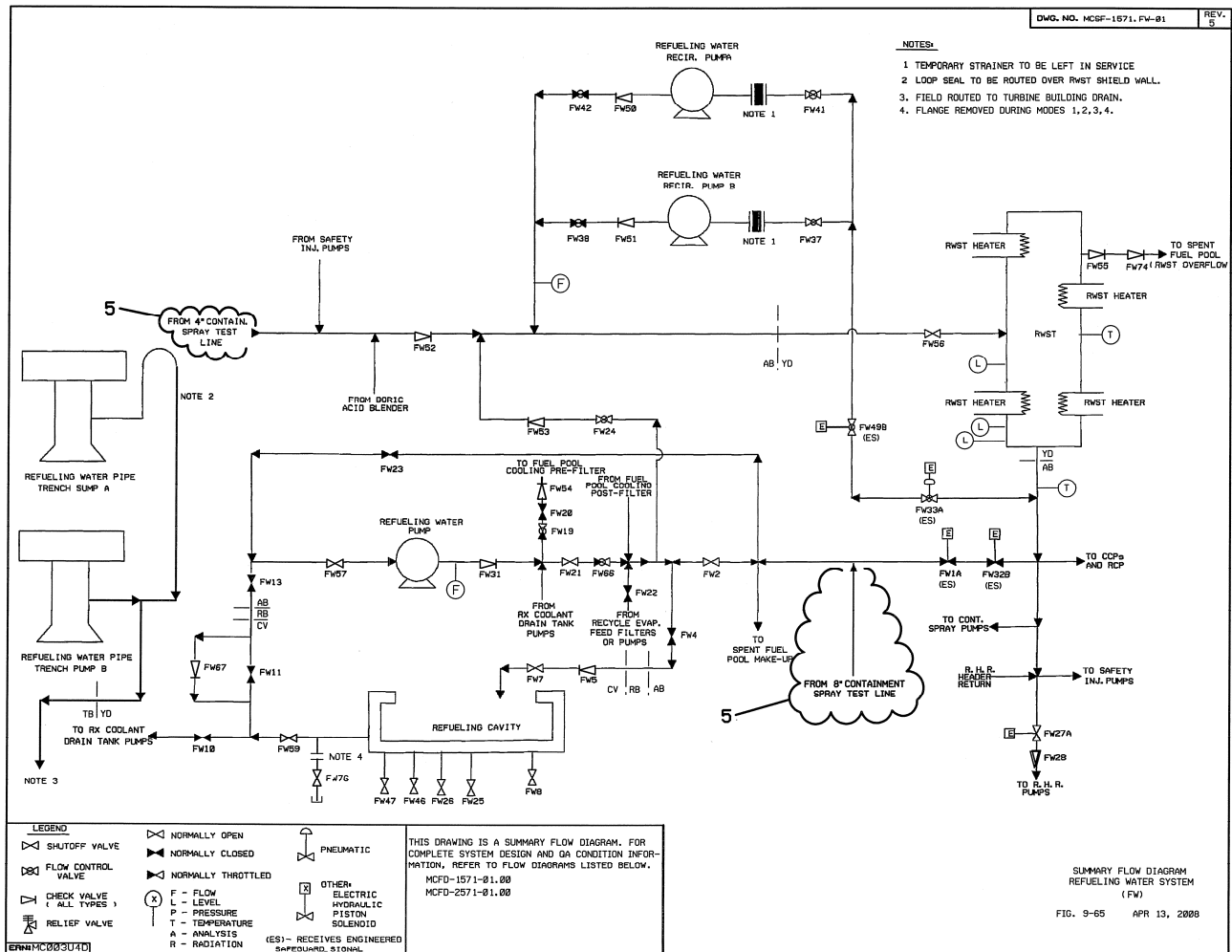


Figure 9-66. Flow Diagram of Filtered Water System

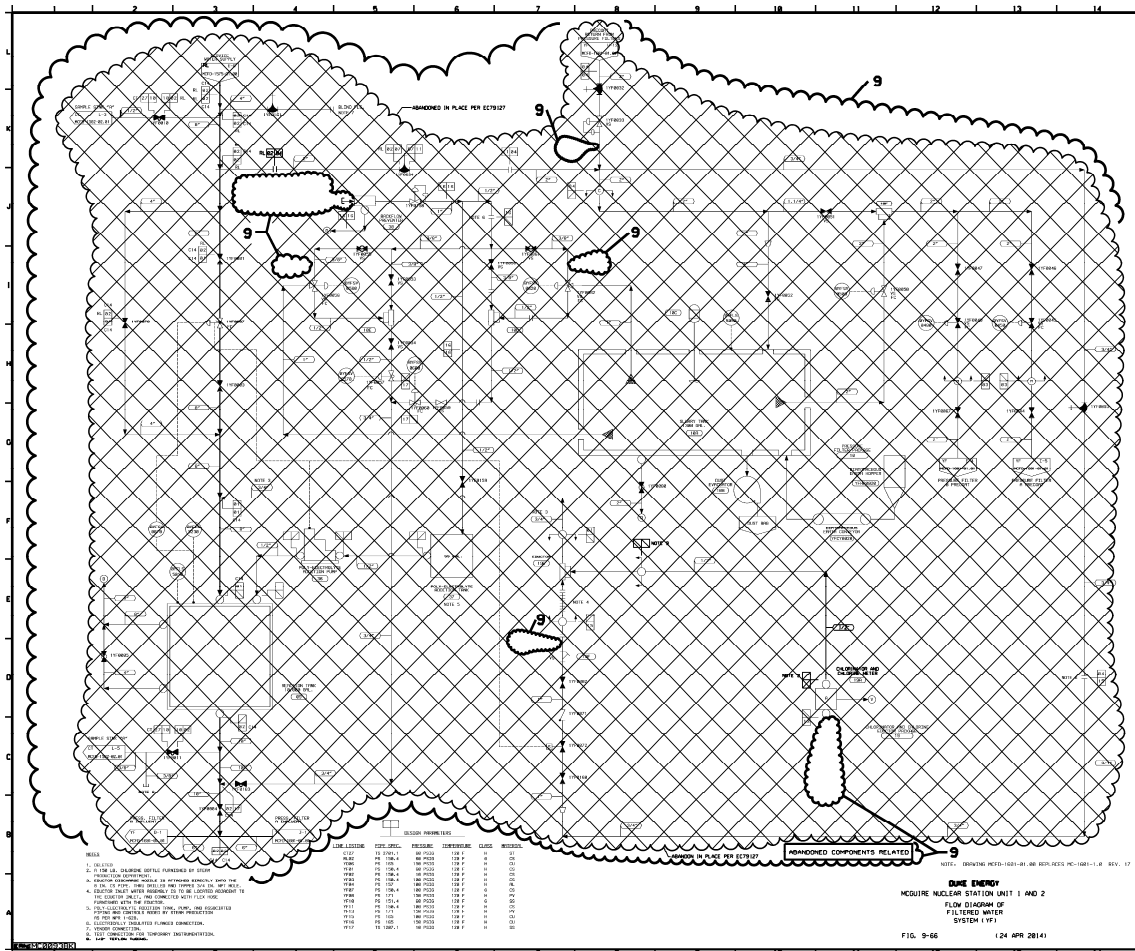


Figure 9-67. Flow Diagram of Filtered Water System (YF)

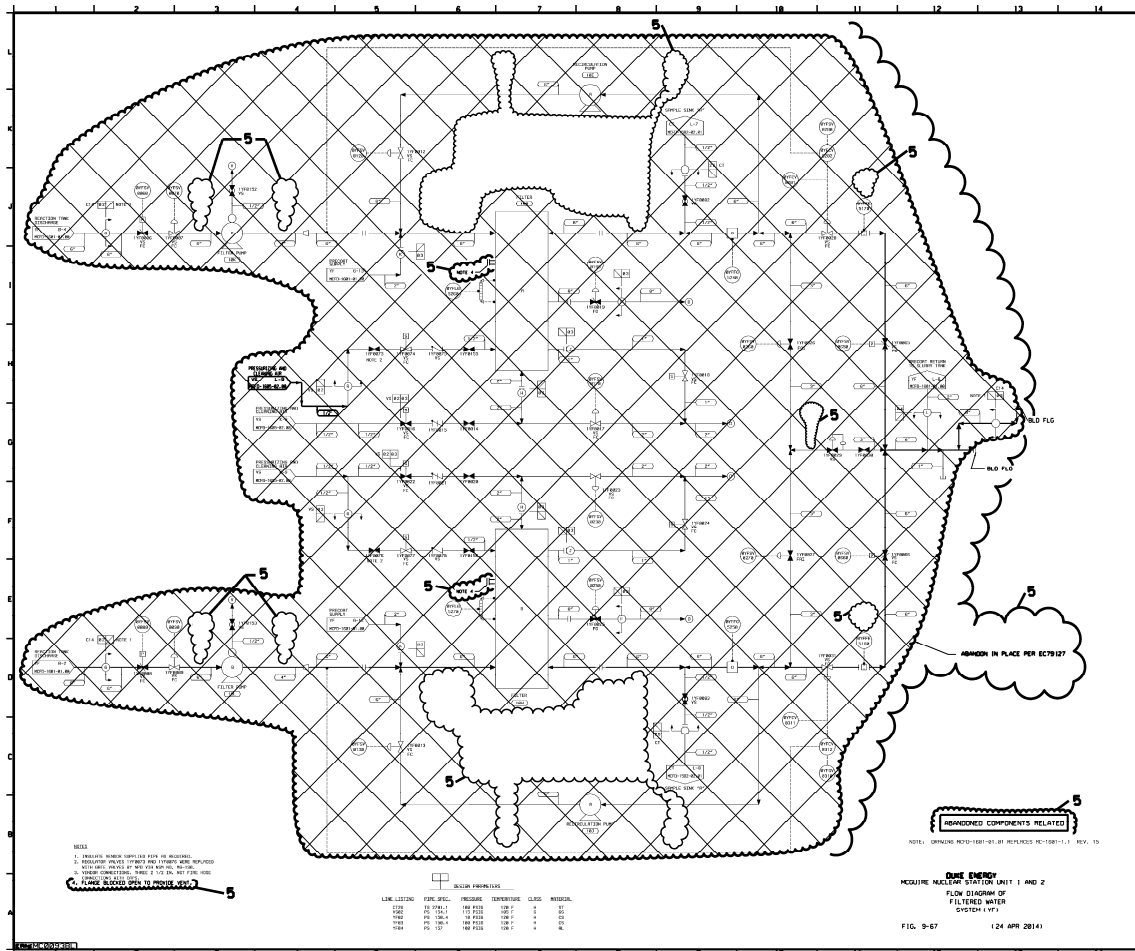


Figure 9-68. Filtered Water System (YF)

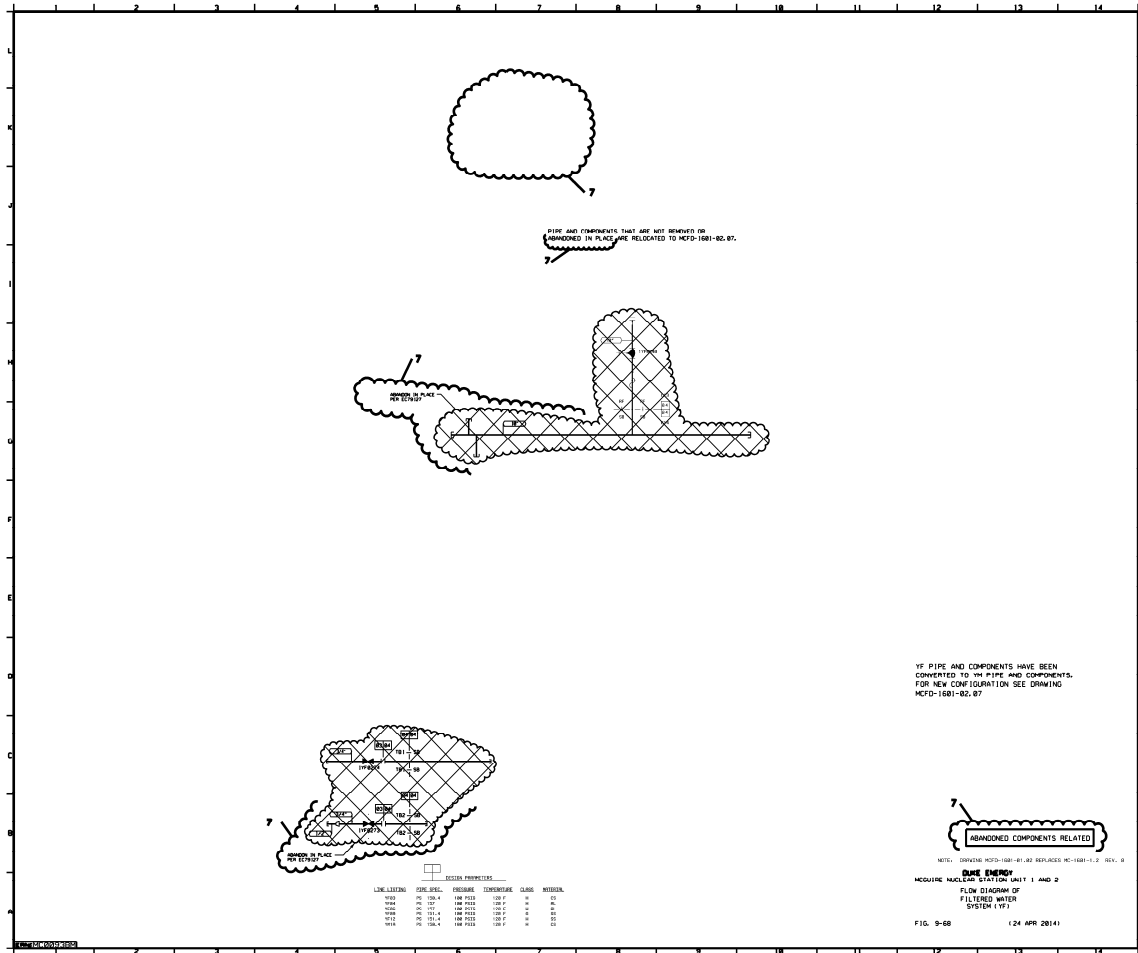


Figure 9-69. Flow Diagram of Makeup Demineralized Water System (YM)

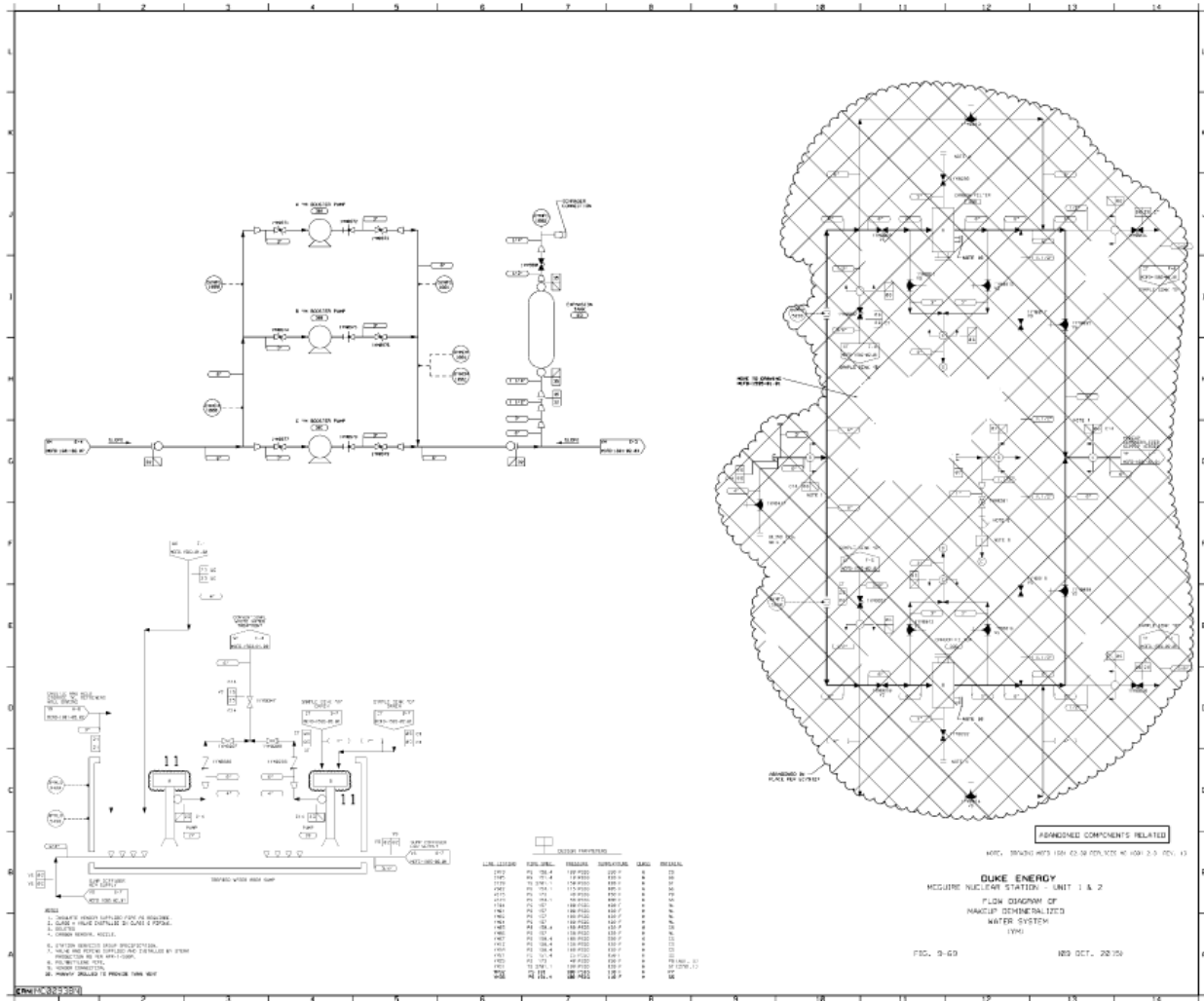


Figure 9-70. Flow Diagram of Makeup Demineralized Water System (YM)

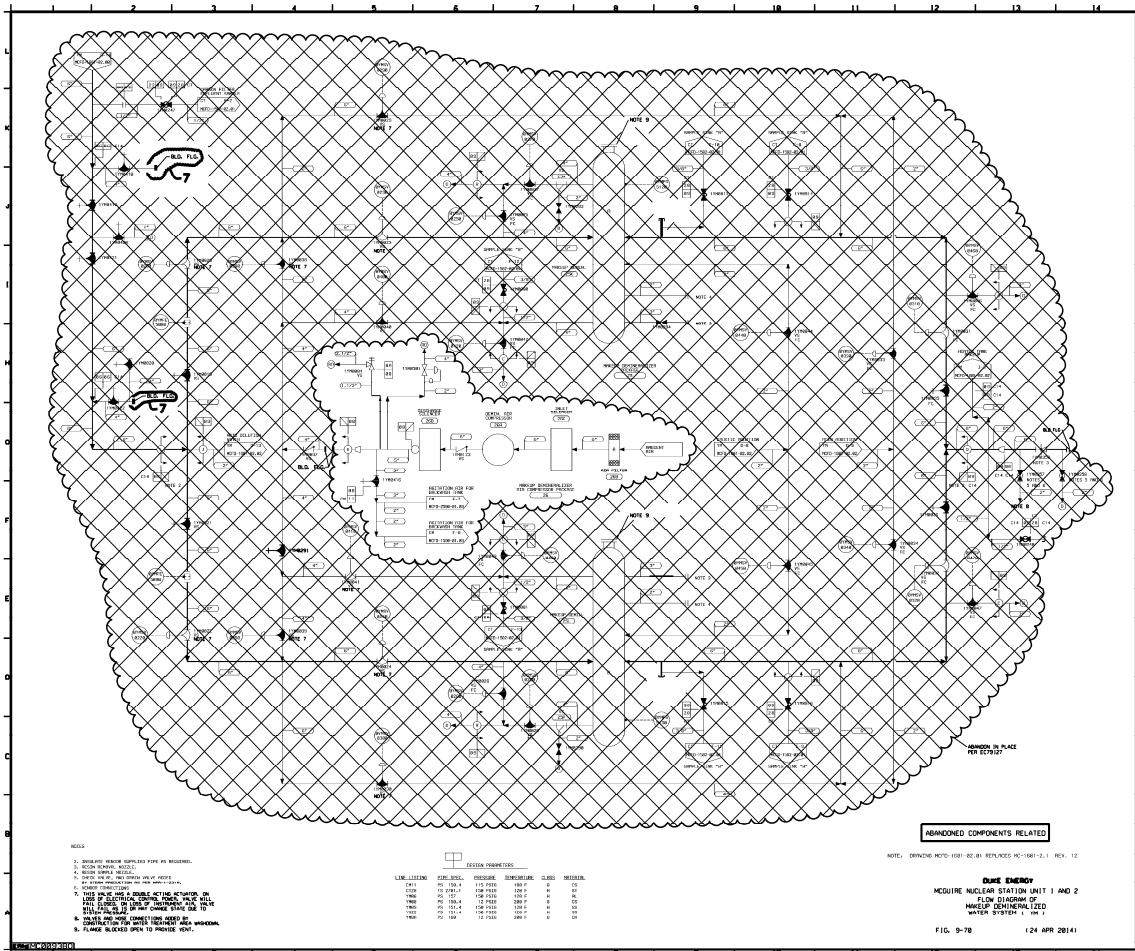


Figure 9-71. Flow Diagram of Makeup Demineralized Water System (YM)

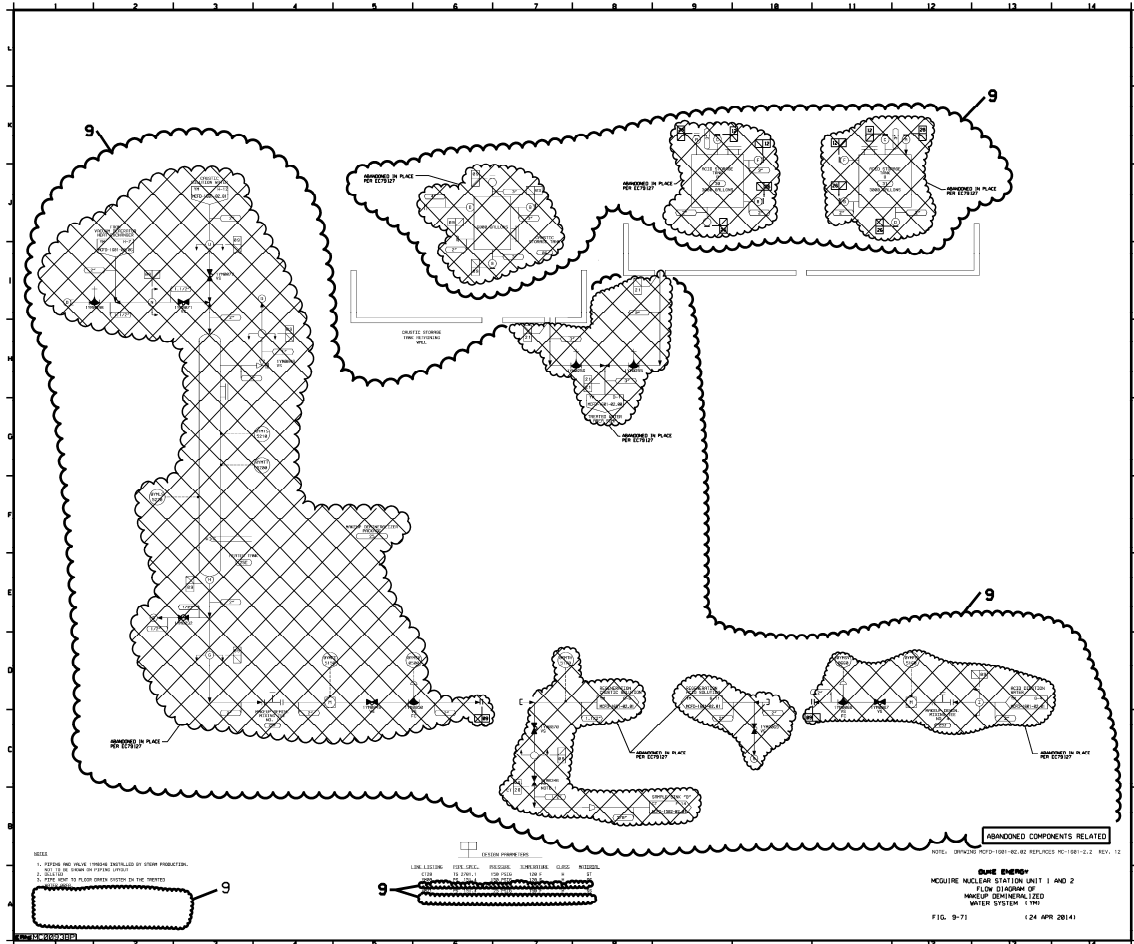






Figure 9-73. Makeup Demineralized Water System (YM)

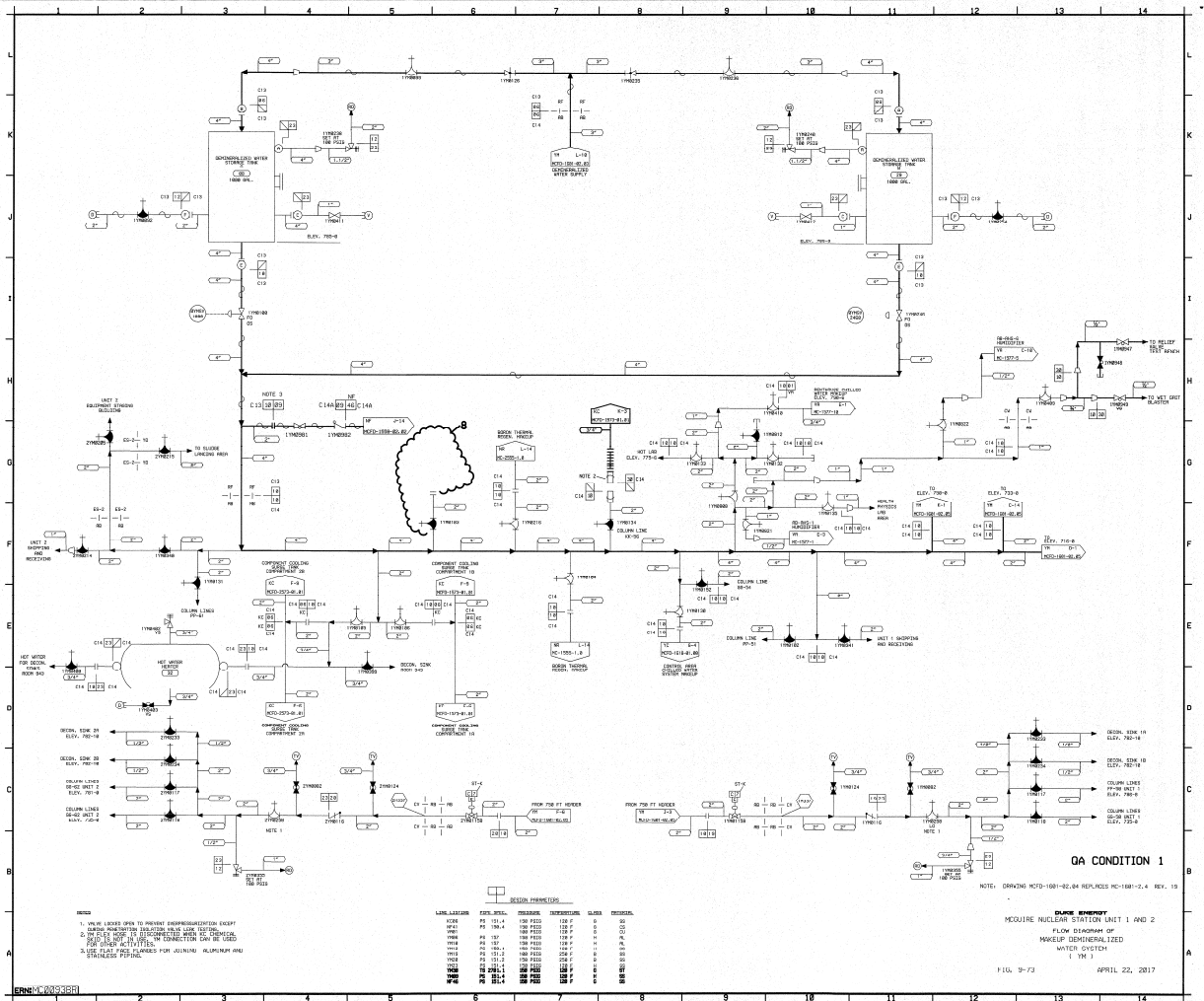


Figure 9-74. Flow Diagram of Makeup Demineralized Water System (YM)

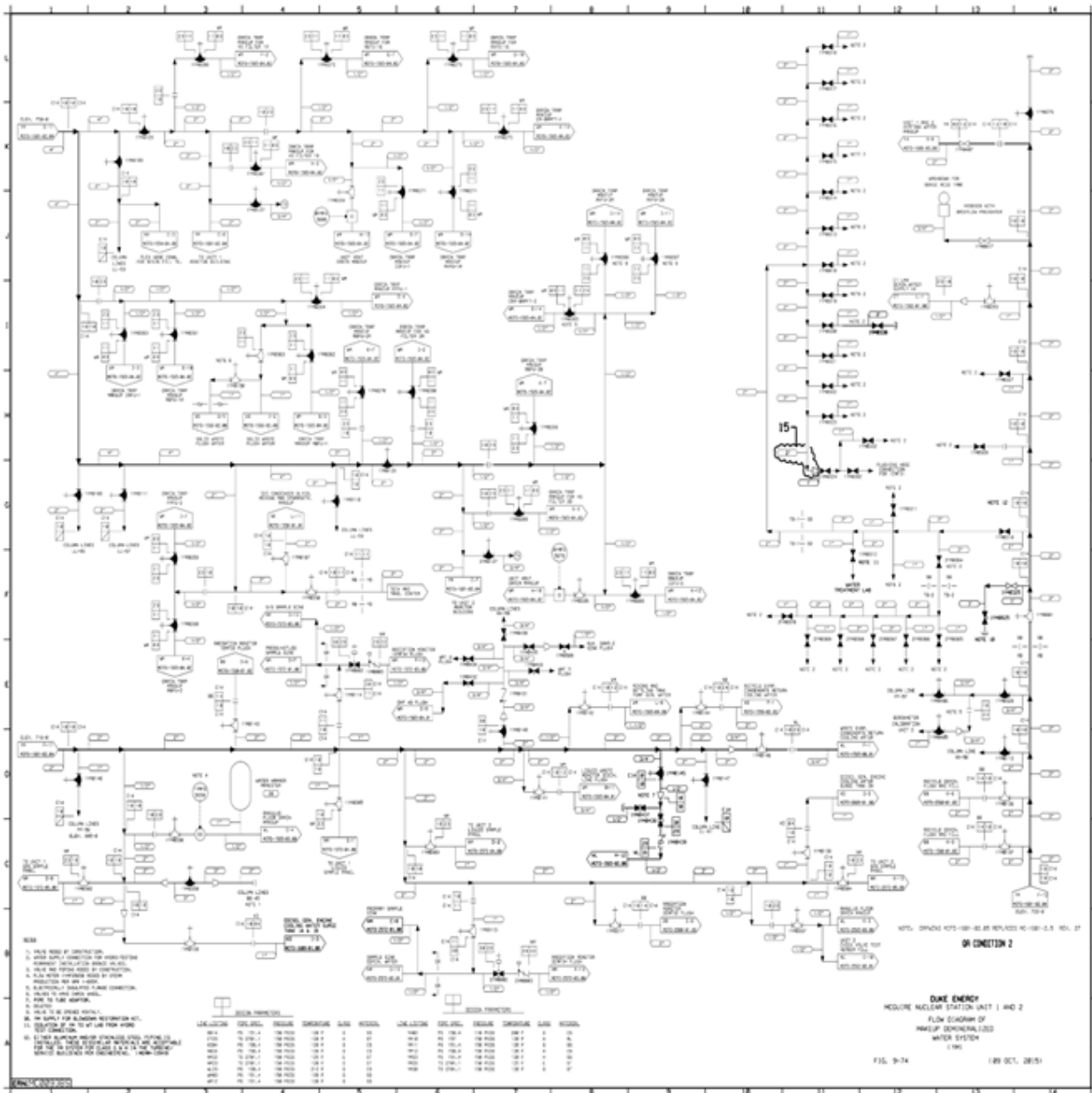
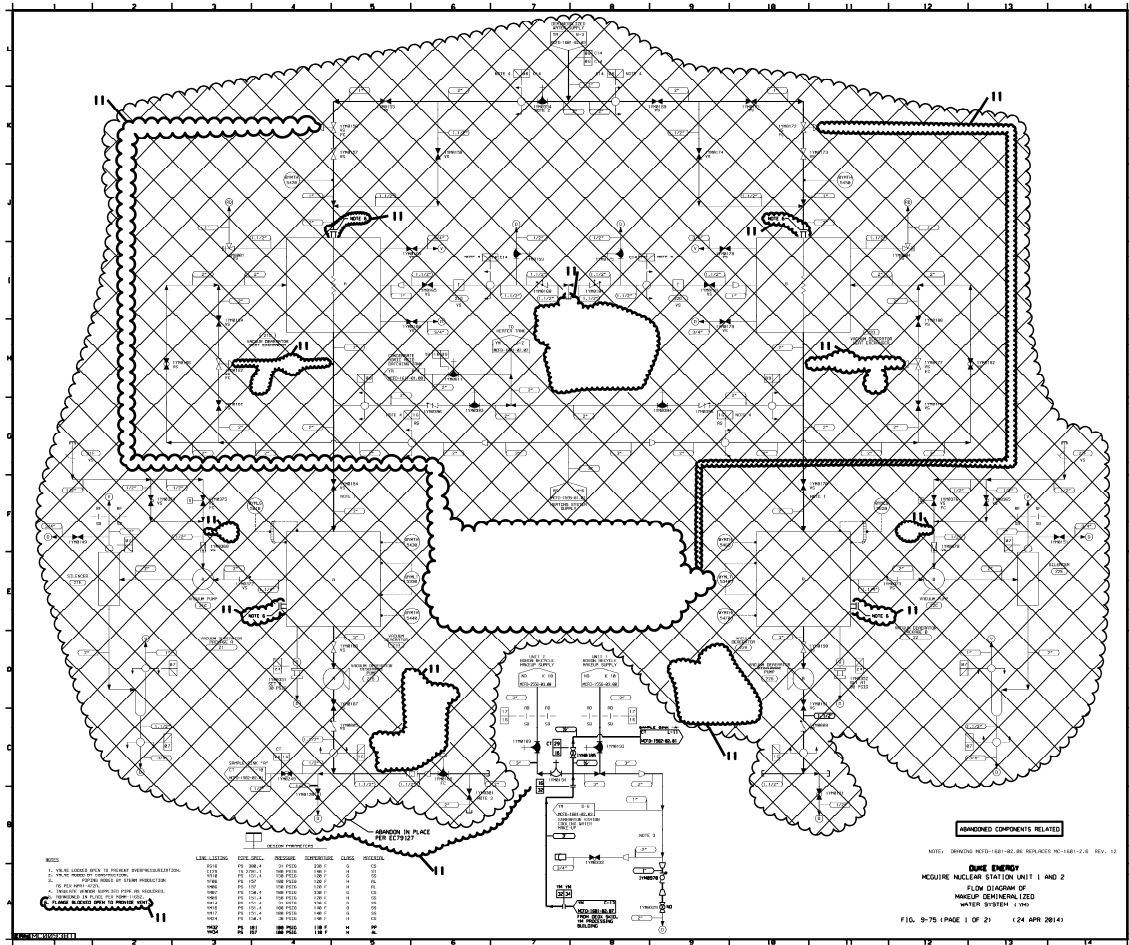


Figure 9-75. Flow Diagram of Makeup Demineralized Water System (YM)



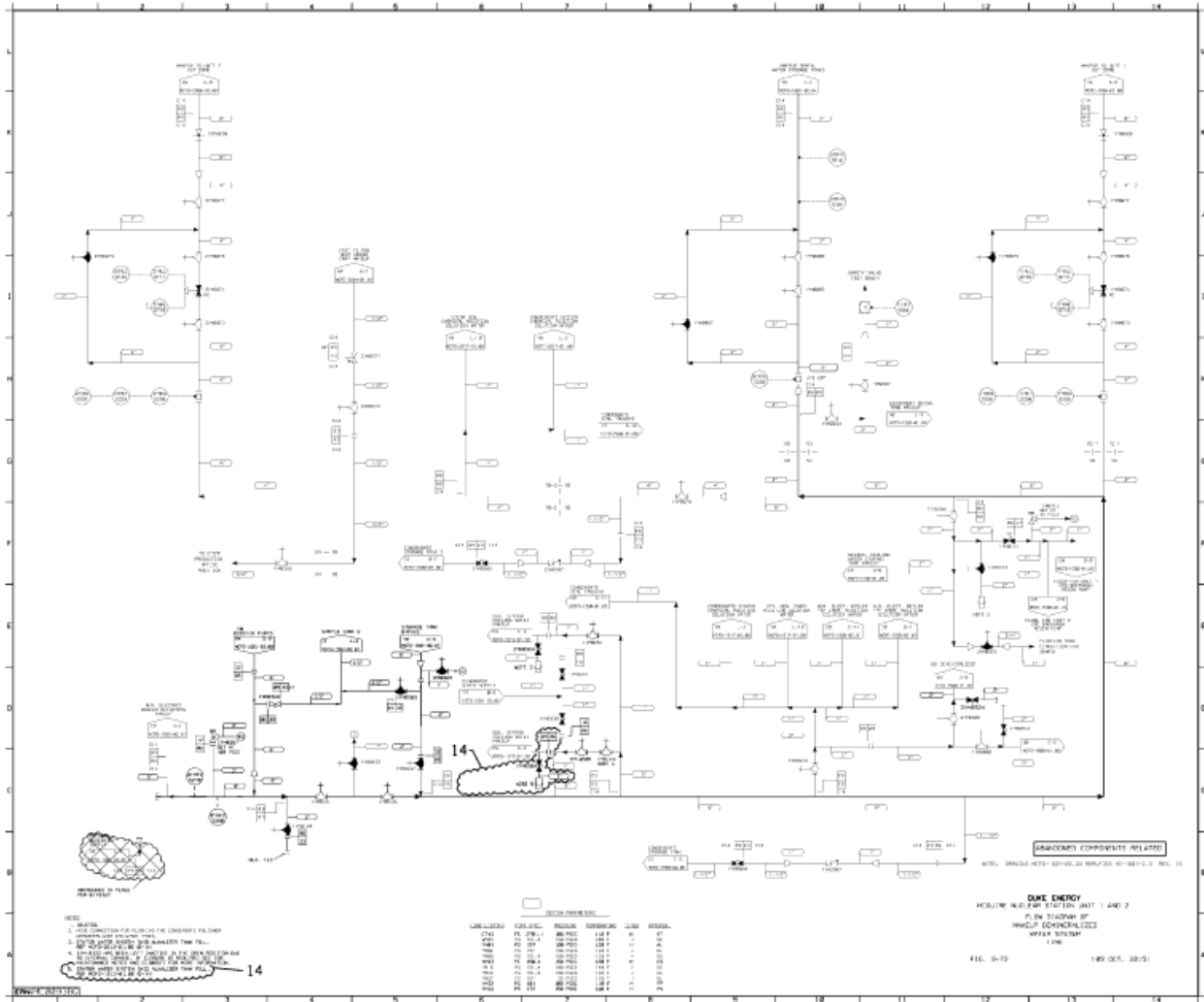


Figure 9-76. Flow Diagram of Drinking Water System (YD)

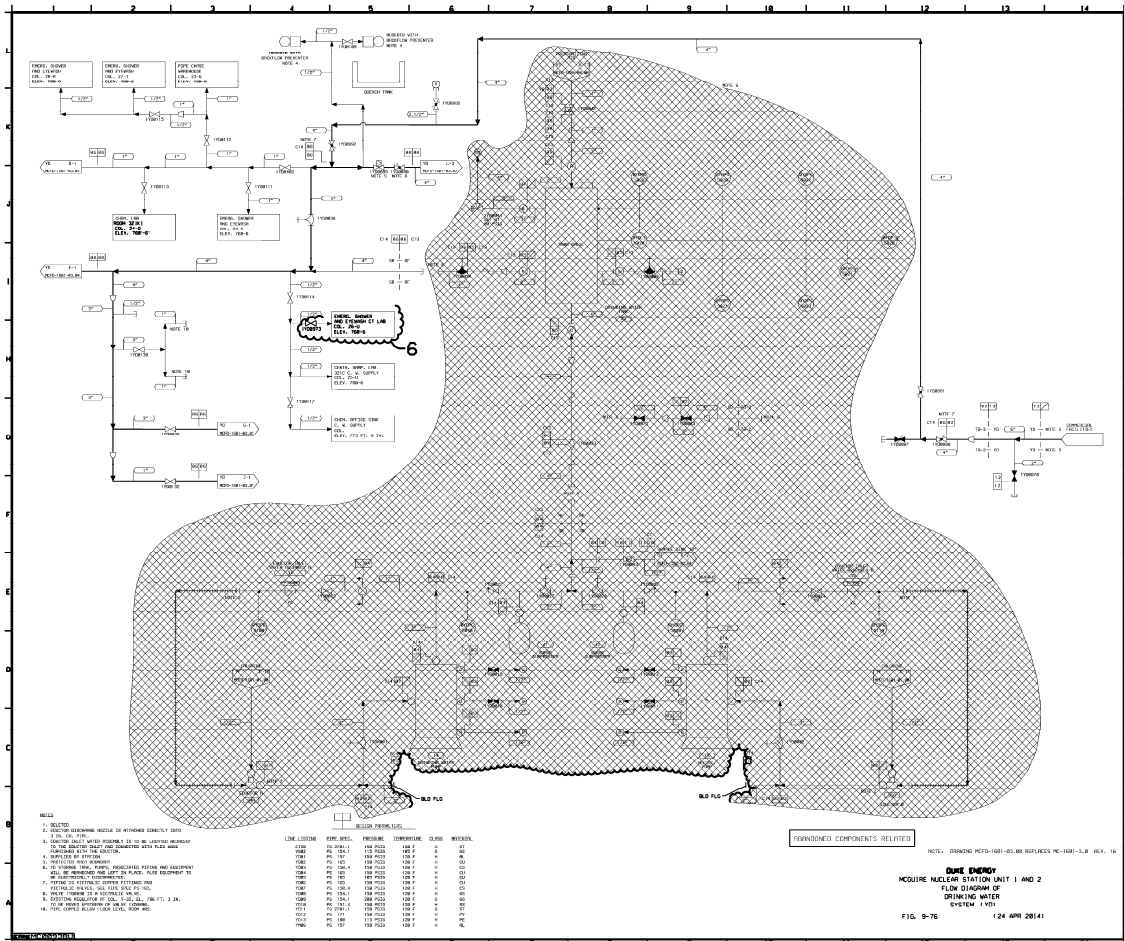
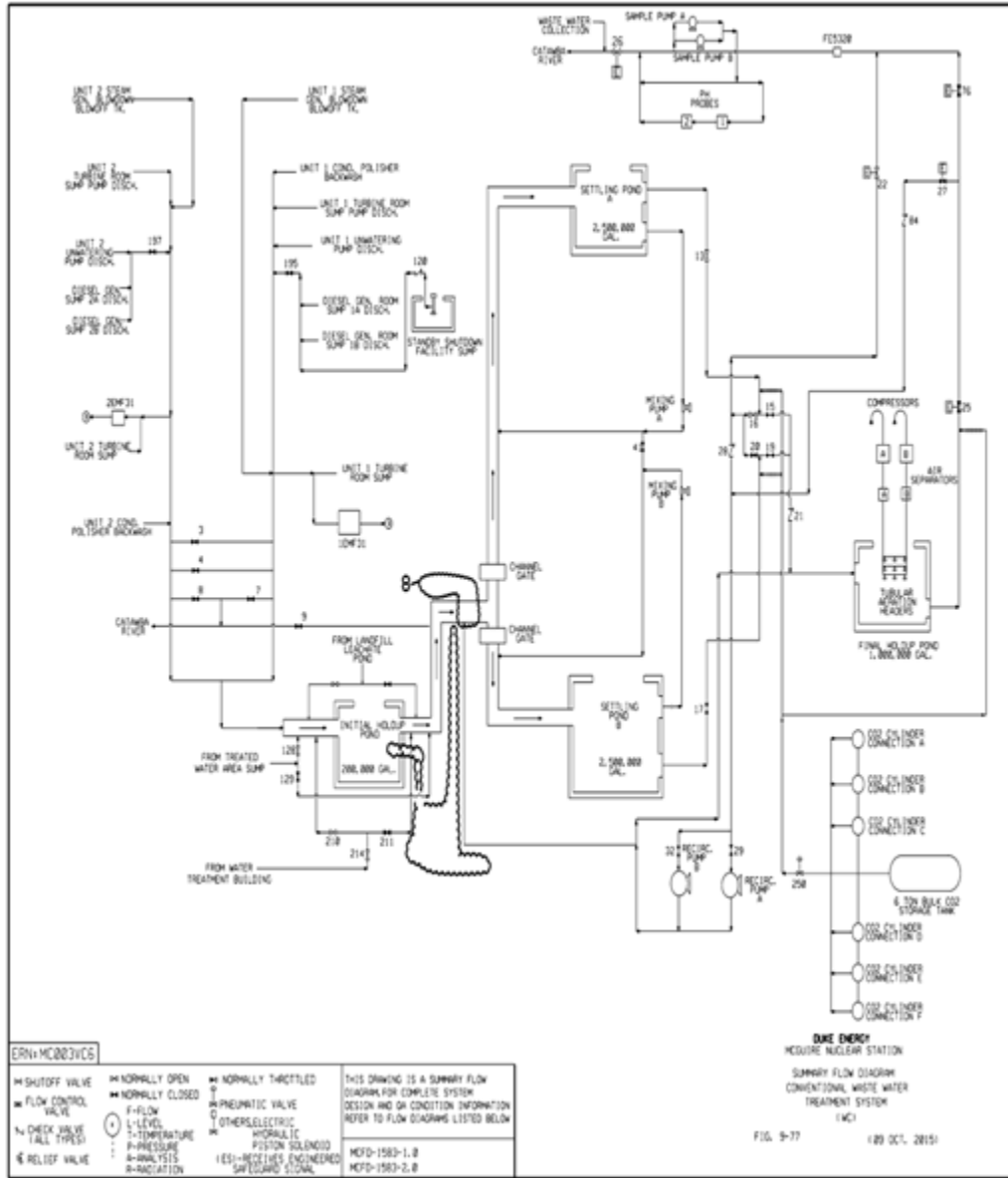


Figure 9-77. Flow Diagram of Conventional Waste Water Treatment System (WC)



ERN+MCD/3VCS

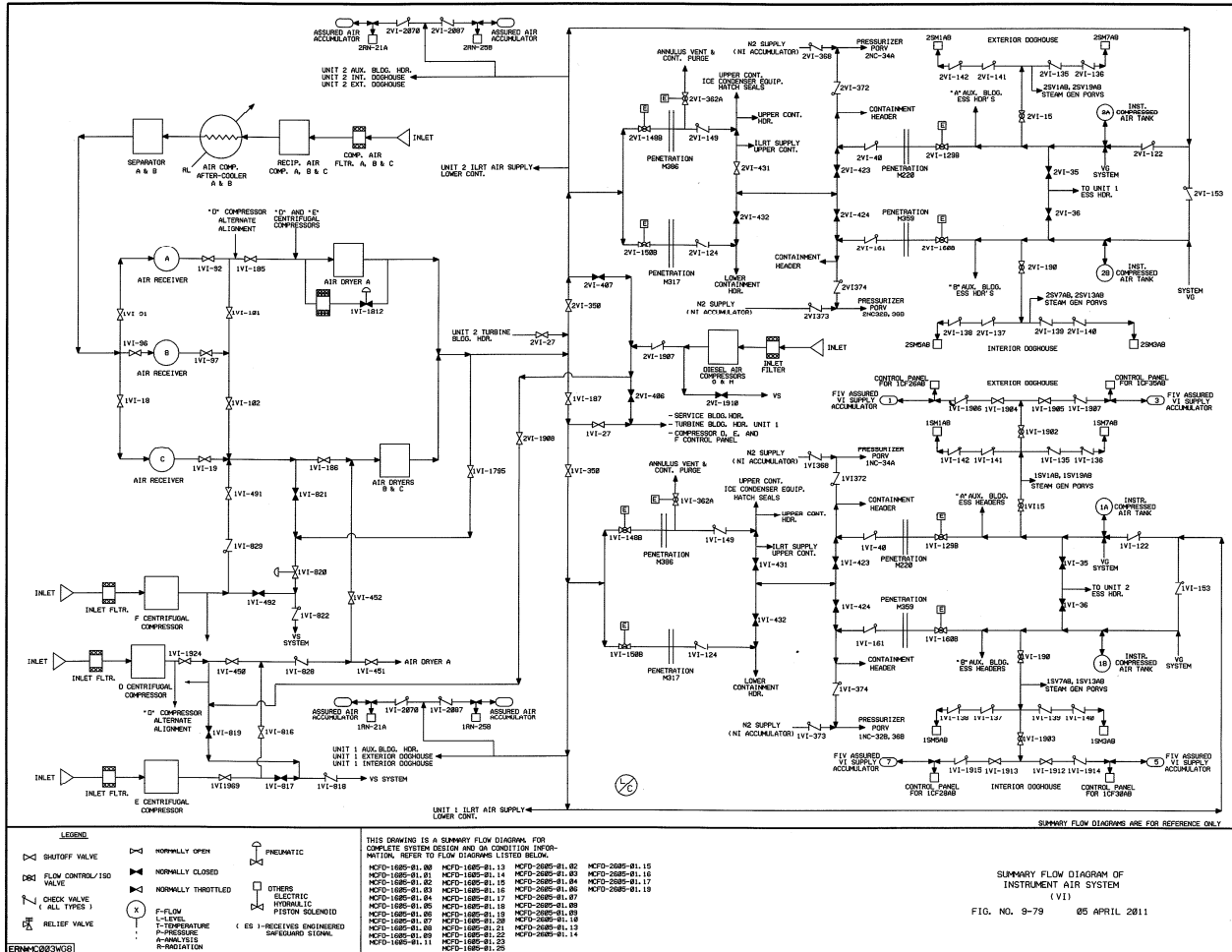
<ul style="list-style-type: none"> <li>■ SHUTOFF VALVE</li> <li>■ FLOW CONTROL VALVE</li> <li>✓ CHECK VALVE (ALL TYPES)</li> <li>⊕ RELIEF VALVE</li> </ul>	<ul style="list-style-type: none"> <li>○ NORMALLY OPEN</li> <li>● NORMALLY CLOSED</li> <li>F FLOW</li> <li>L LEVEL</li> <li>T TEMPERATURE</li> <li>P PRESSURE</li> <li>A ANALYSIS</li> <li>R RADIATION</li> </ul>	<ul style="list-style-type: none"> <li>⊘ NORMALLY THROTTLED</li> <li>⊕ PNEUMATIC VALVE</li> <li>⊖ OTHER/ELECTRIC</li> <li>⊘ HYDRAULIC</li> <li>⊕ PISTON SOLENOID</li> <li>⊖ (ES)-RECEIVES ENGINEERED SAFEGUARD SIGNAL</li> </ul>	<p>THIS DRAWING IS A SUMMARY FLOW DIAGRAM FOR COMPLETE SYSTEM DESIGN AND GA CONDITION INFORMATION REFER TO FLOW DIAGRAMS LISTED BELOW</p> <p>MFD-1563-1.0 MFD-1563-2.0</p>
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ONE ENERGY  
MCUIRE NUCLEAR STATION  
SUMMARY FLOW DIAGRAM  
CONVENTIONAL WASTE WATER  
TREATMENT SYSTEM  
(WC)

FIG. 9-77 (09 OCT. 2015)

**Figure 9-78. Deleted Per 1993 Update**

Figure 9-79. Summary Flow Diagram of Instrument Air System (VI)





**Figure 9-80. Deleted Per 1993 Update**

**Figure 9-81. Deleted Per 1993 Update**

**Figure 9-82. Deleted Per 1993 Update**

**Figure 9-83. Flow Diagram of Station Air System**

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Figure 9-84. Deleted Per 1993 Update

Figure 9-85. Deleted Per 1993 Update

Figure 9-86. Deleted Per 1993 Update

Figure 9-87. Deleted Per 1993 Update

Figure 9-88. Deleted Per 1993 Update

Figure 9-89. Deleted Per 1993 Update

Figure 9-90. Summary Flow Diagram Of Nuclear Sampling System (NM)

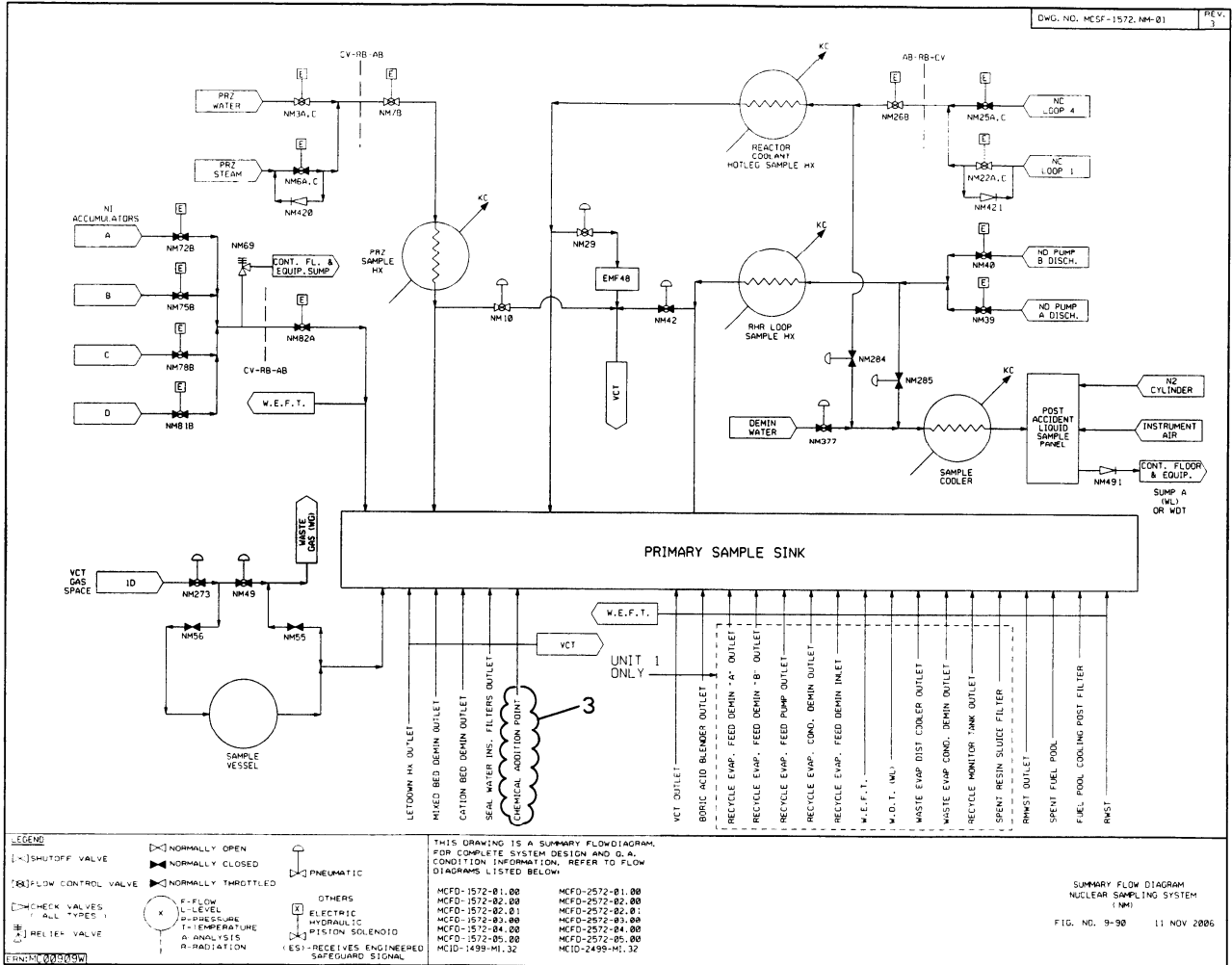


Figure 9-91. Flow Diagram of Nuclear Sampling System

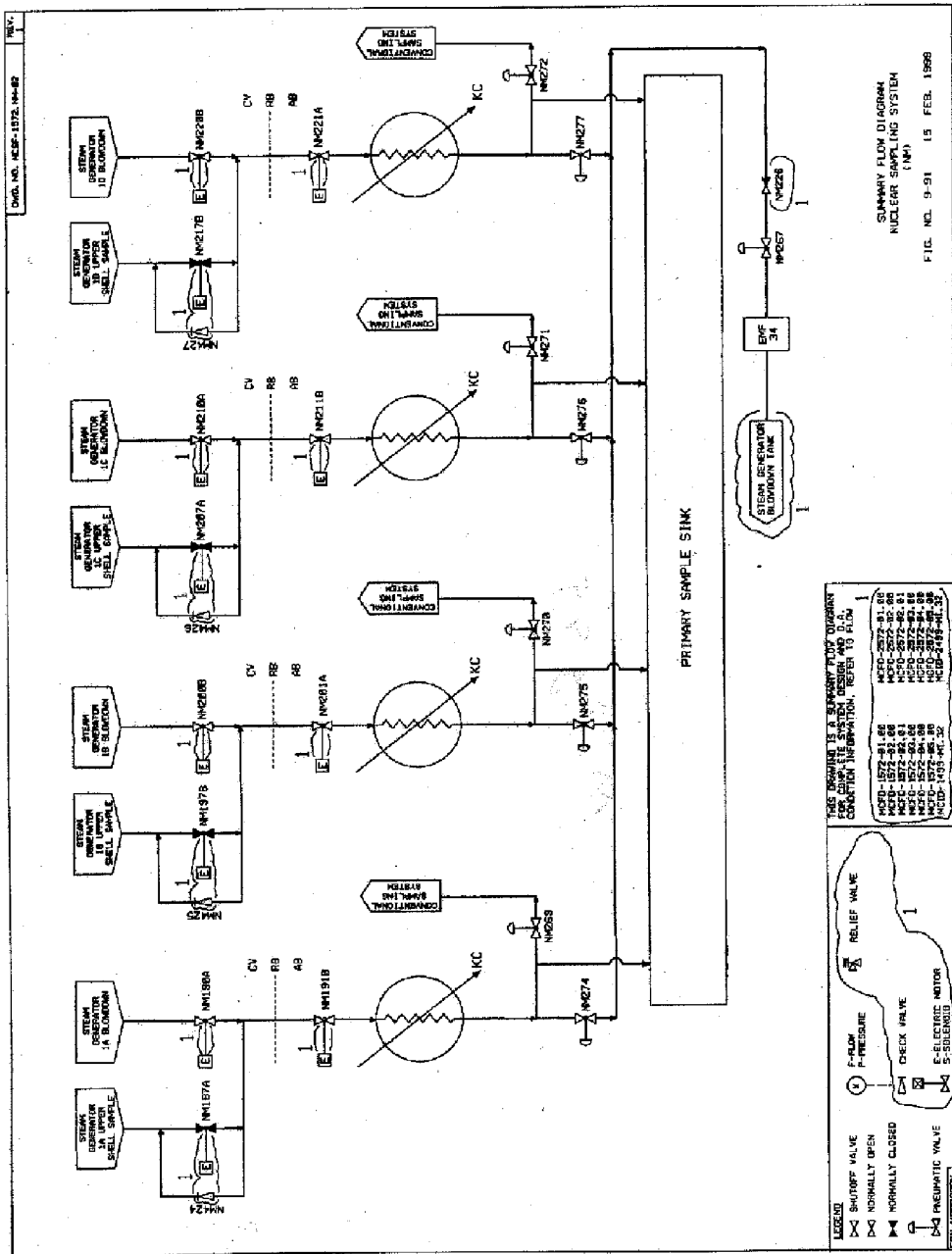
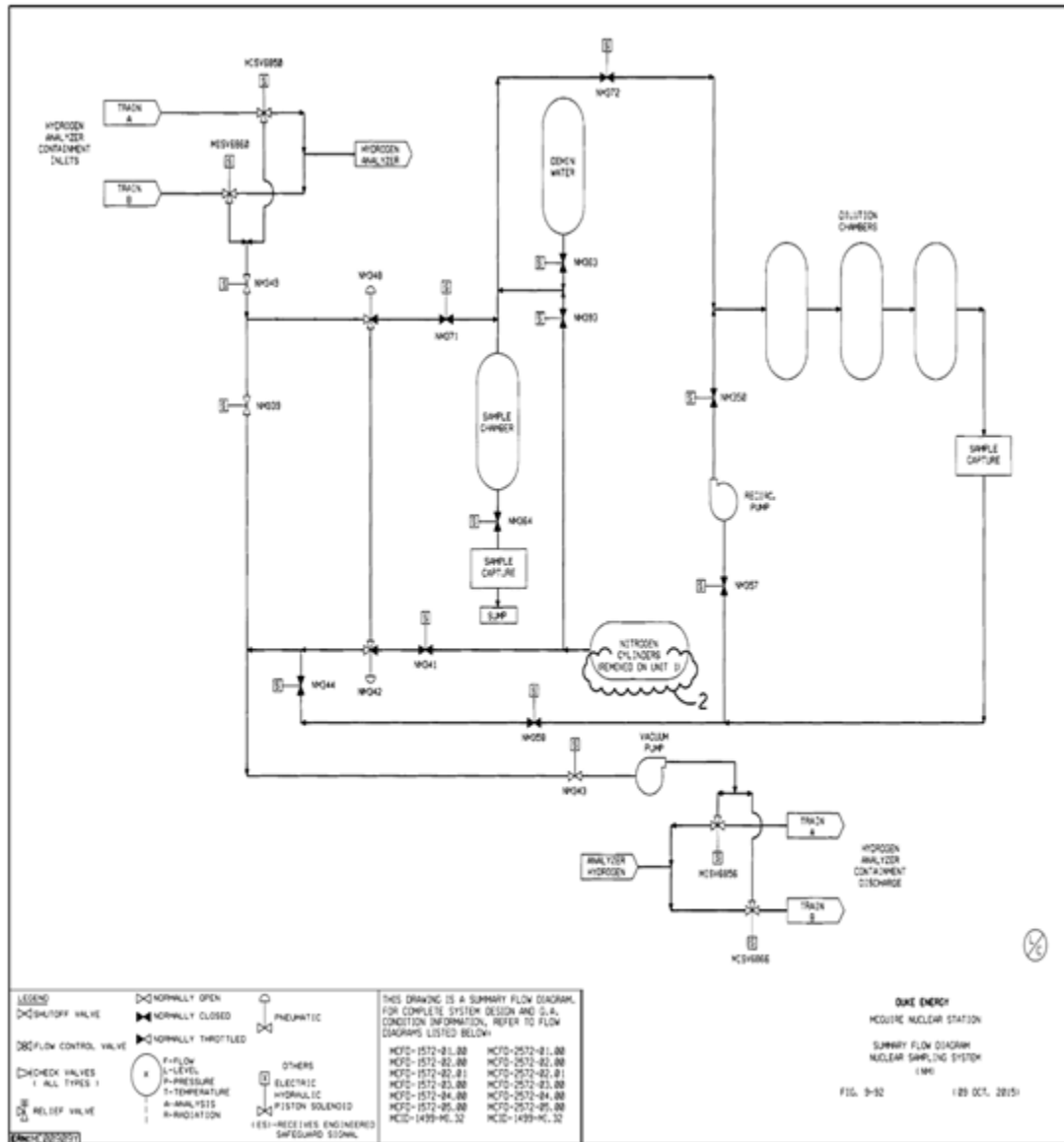


Figure 9-92. Flow Diagram of Nuclear Sampling System

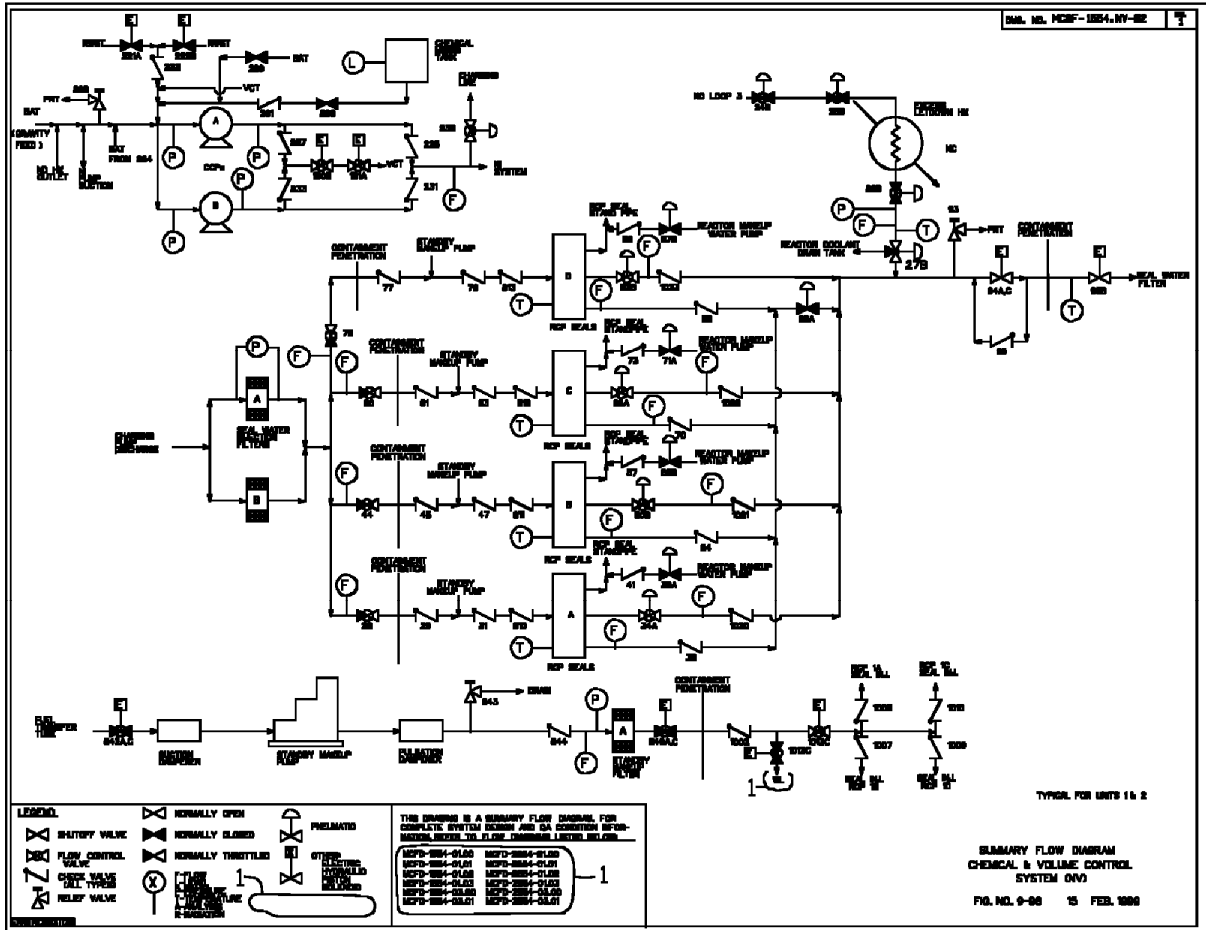


**Figure 9-93. Deleted Per 1996 Update**

**Figure 9-94. Deleted Per 1993 Update**

**Figure 9-95. Deleted Per 1993 Update**

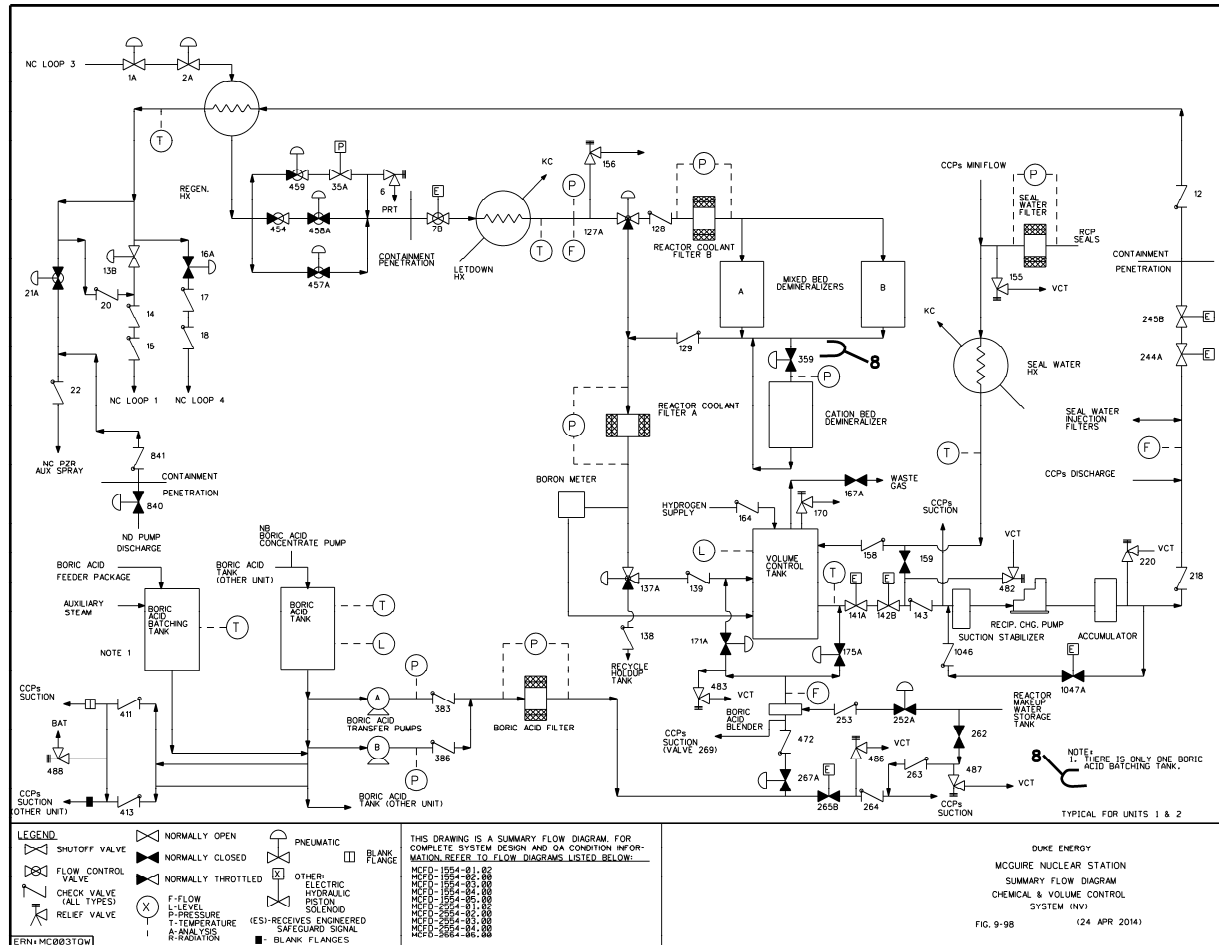
Figure 9-96. Flow Diagram of Chemical and Volume Control System





**Figure 9-97. Deleted Per 1993 Update**

Figure 9-98. Summary Flow Diagram of Chemical and Volume Control System (NV)



**Figure 9-99. Deleted Per 1993 Update**

**Figure 9-100. Deleted Per 1993 Update**

**Figure 9-101. Deleted Per 1993 Update**

**Figure 9-102. Deleted Per 1993 Update**

**Figure 9-103. Deleted Per 1993 Update**

**Figure 9-104. Deleted Per 1993 Update**

**Figure 9-105. Deleted Per 1993 Update**

**Figure 9-106. Deleted Per 1993 Update**

Figure 9-107. Flow Diagram of Boron Thermal Regeneration System (NR)

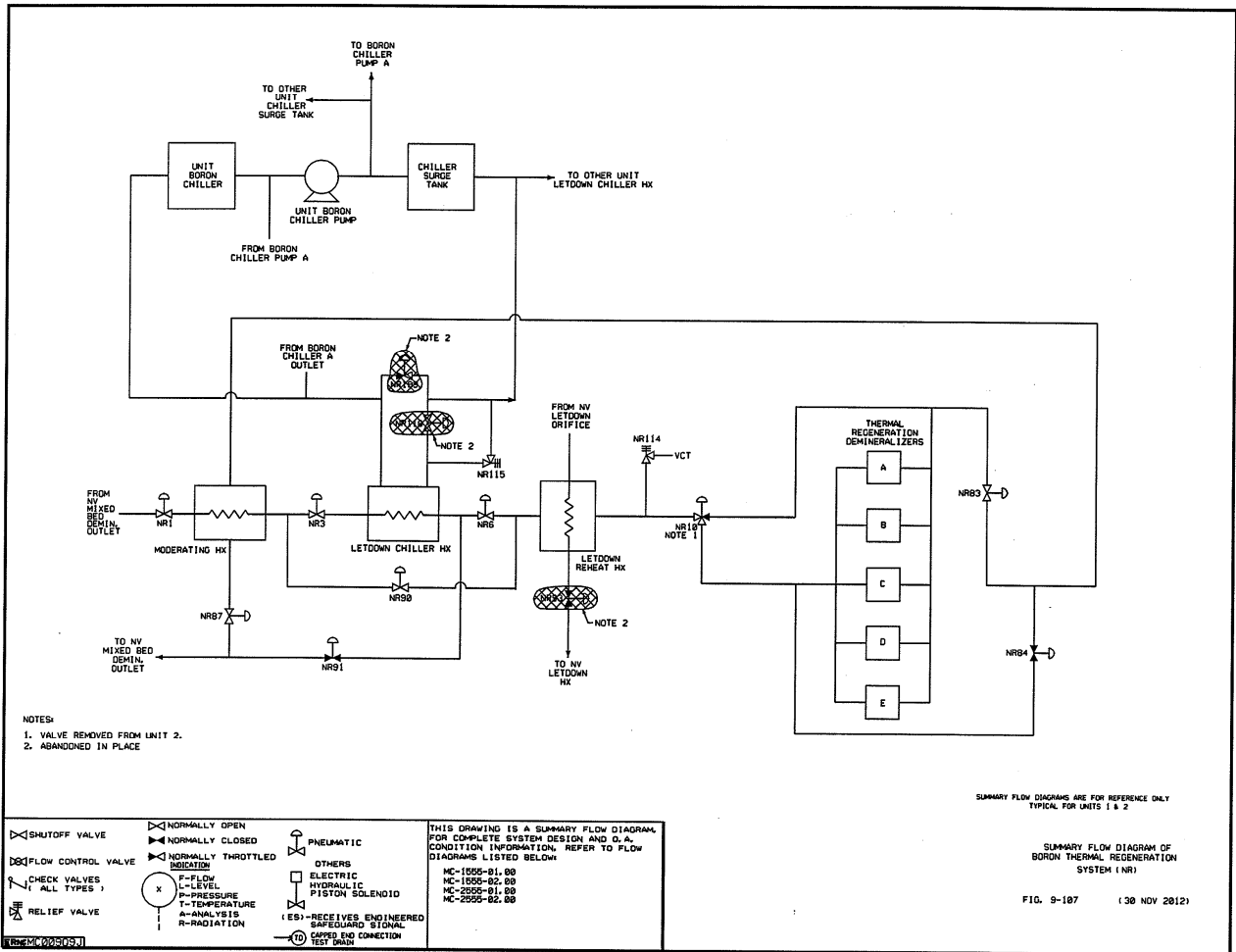
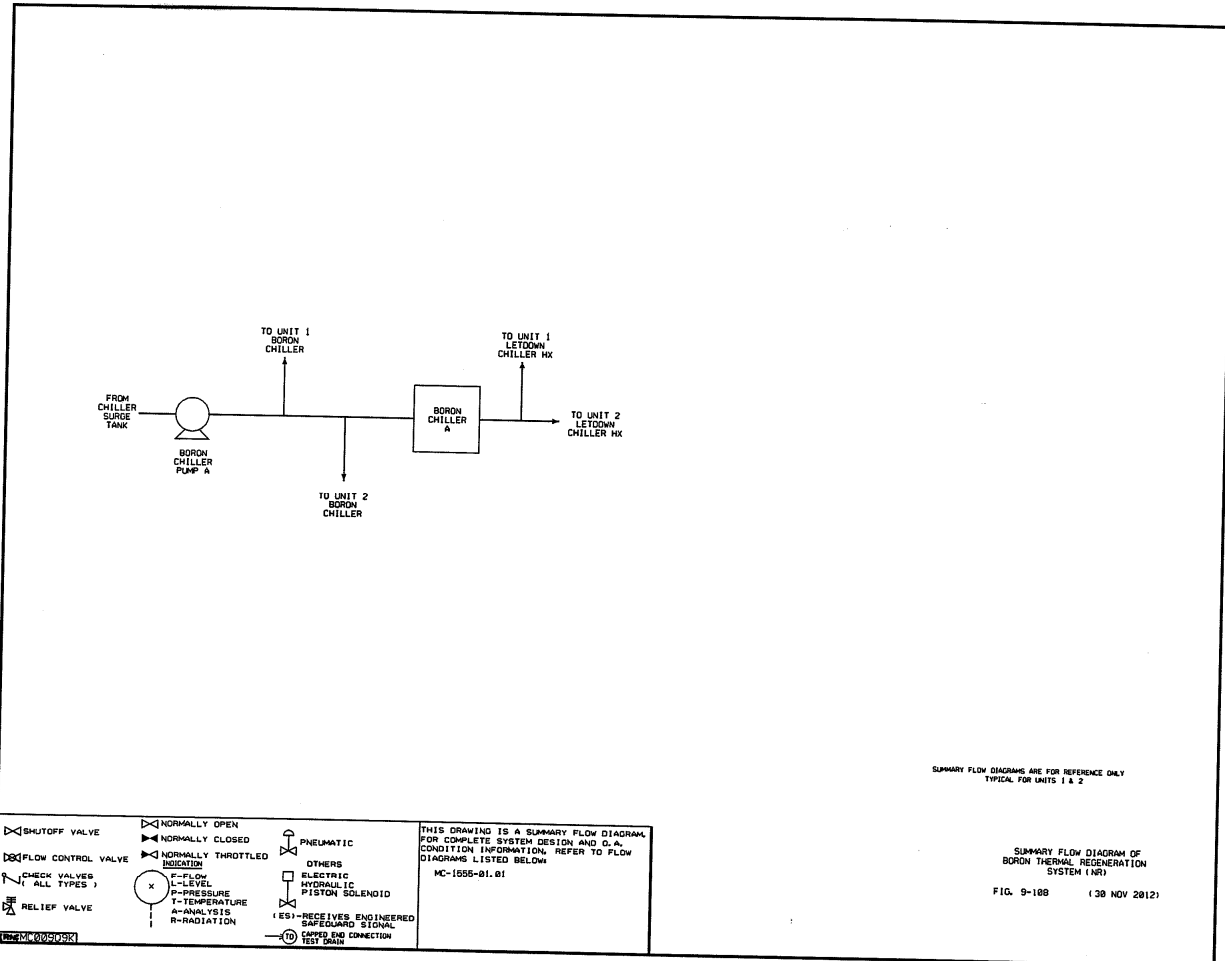


Figure 9-108. Flow Diagram of Boron Thermal Regeneration System



**Figure 9-109. Deleted Per 2012 Update**

Figure 9-110. Flow Diagram of Boron Recycle System (NB)

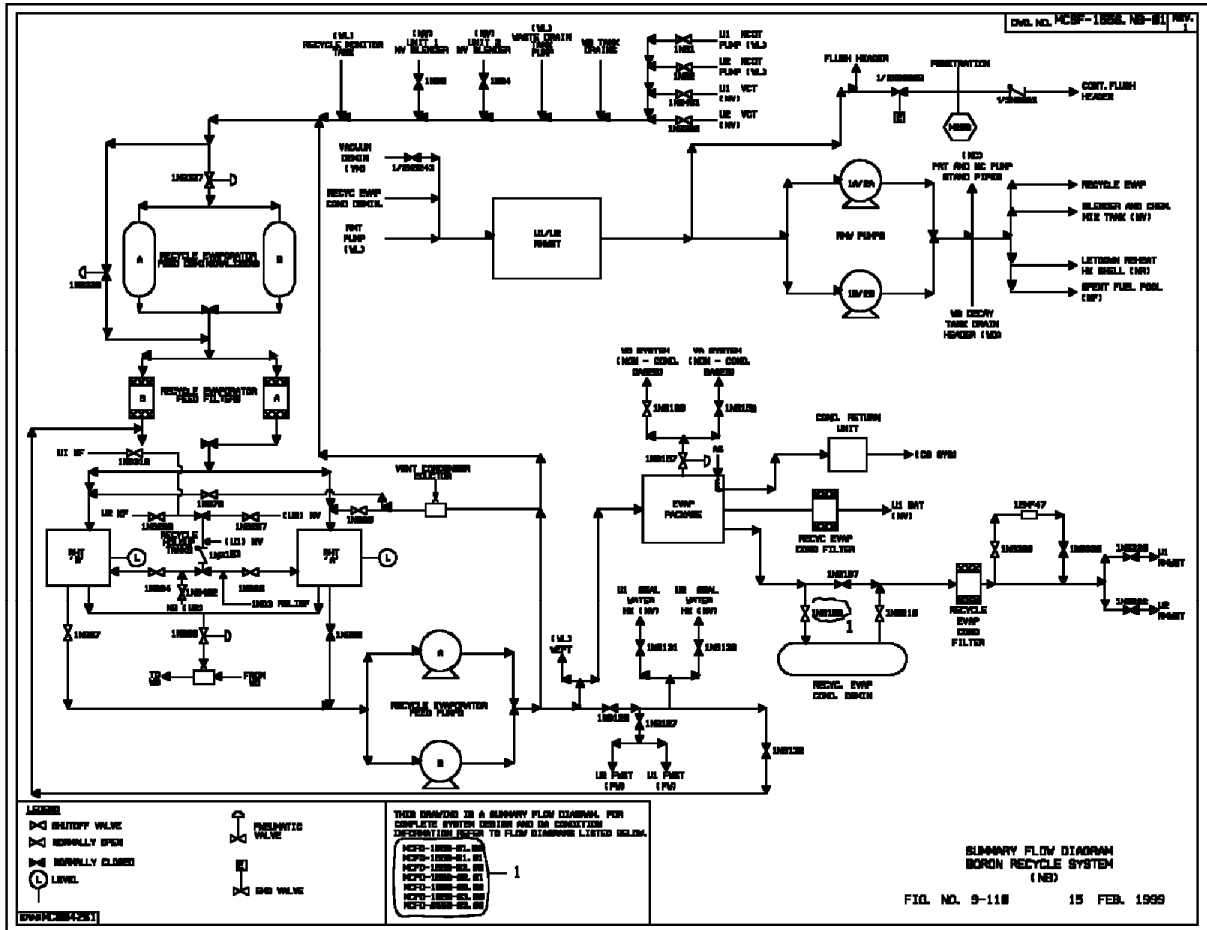


Figure 9-111. Deleted Per 1994 Update

Figure 9-112. Deleted Per 1994 Update

Figure 9-113. Deleted Per 1994 Update

Figure 9-114. Deleted Per 1994 Update

Figure 9-115. Deleted Per 1994 Update

Figure 9-116. Deleted Per 2002 Update



Figure 9-117. Flow Diagram of Auxiliary Building Ventilation System

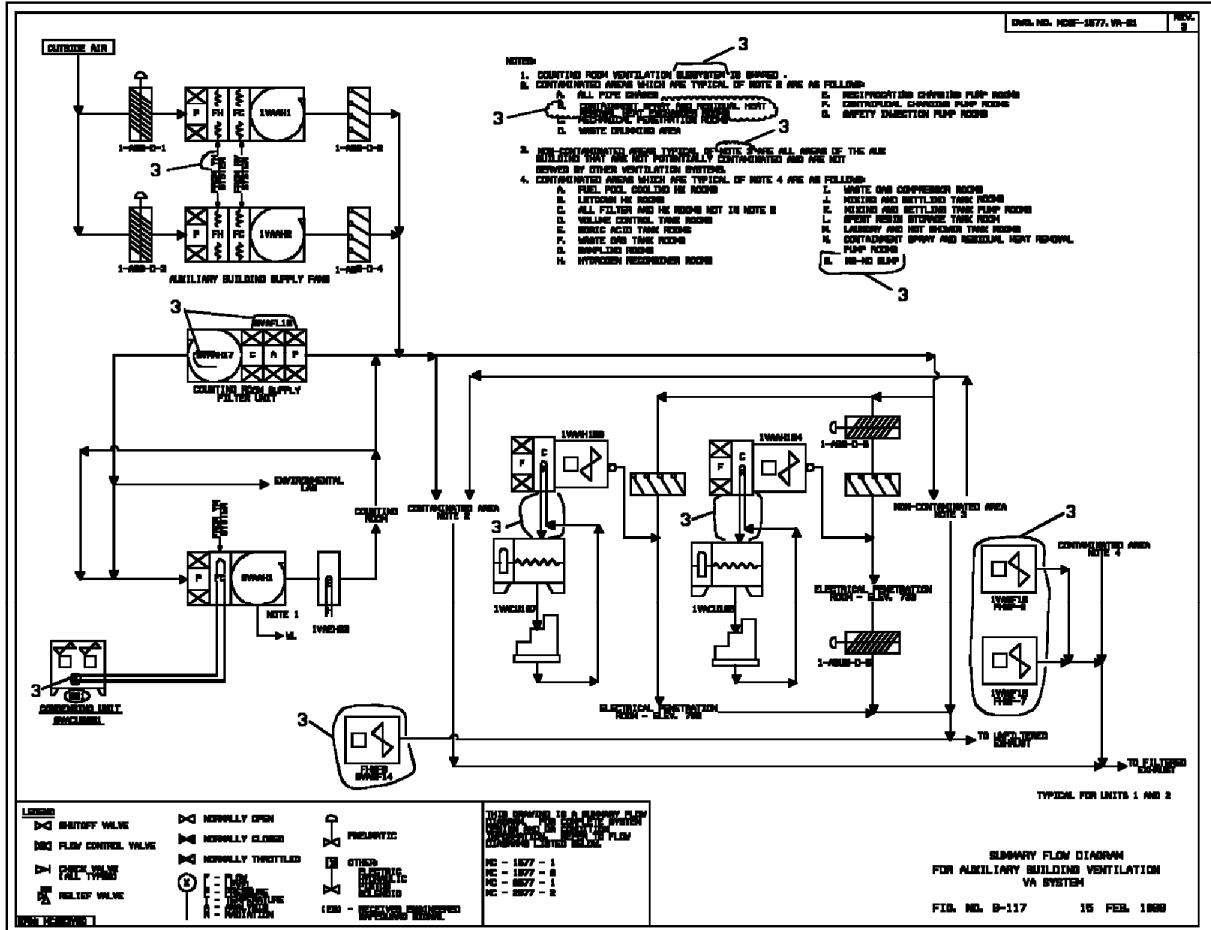
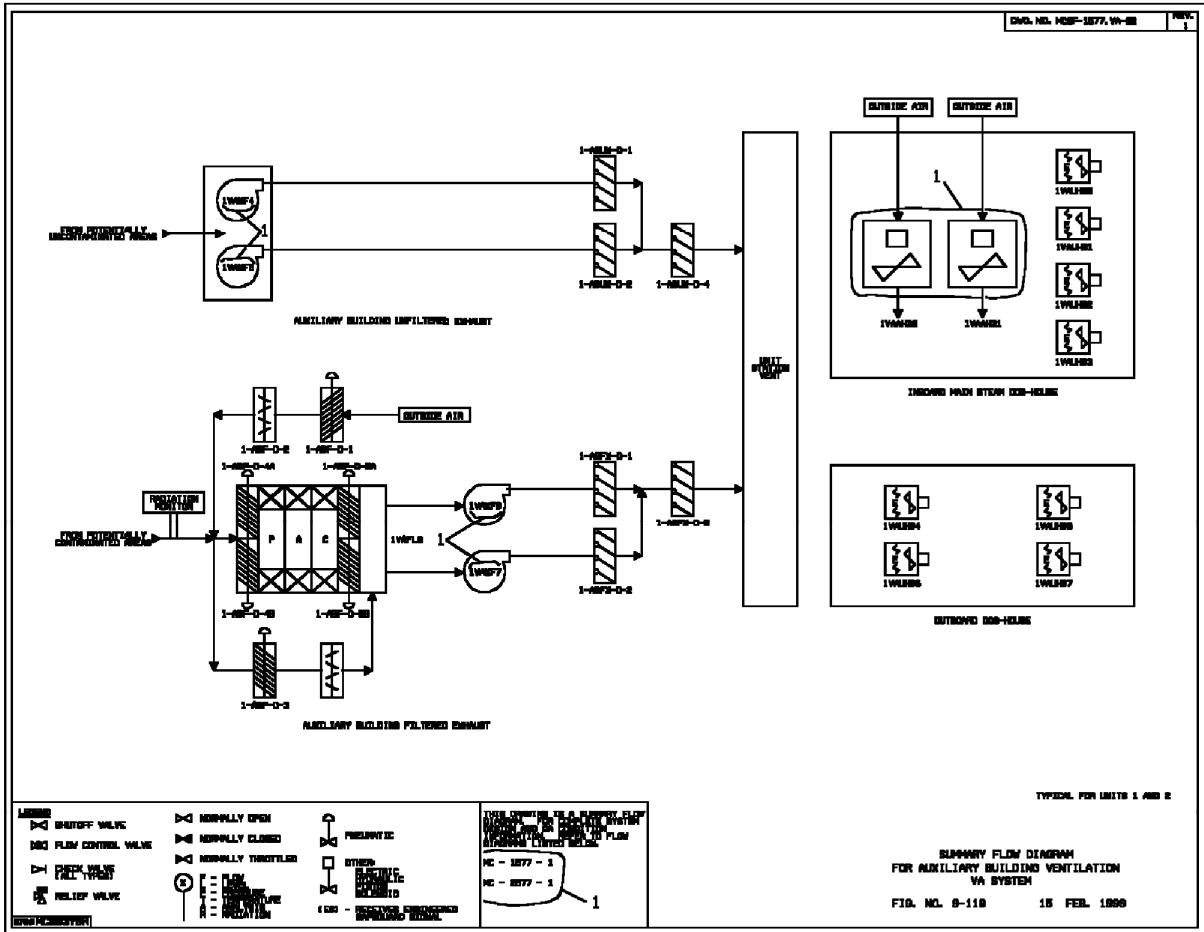


Figure 9-118. Flow Diagram of Auxiliary Building Ventilation System





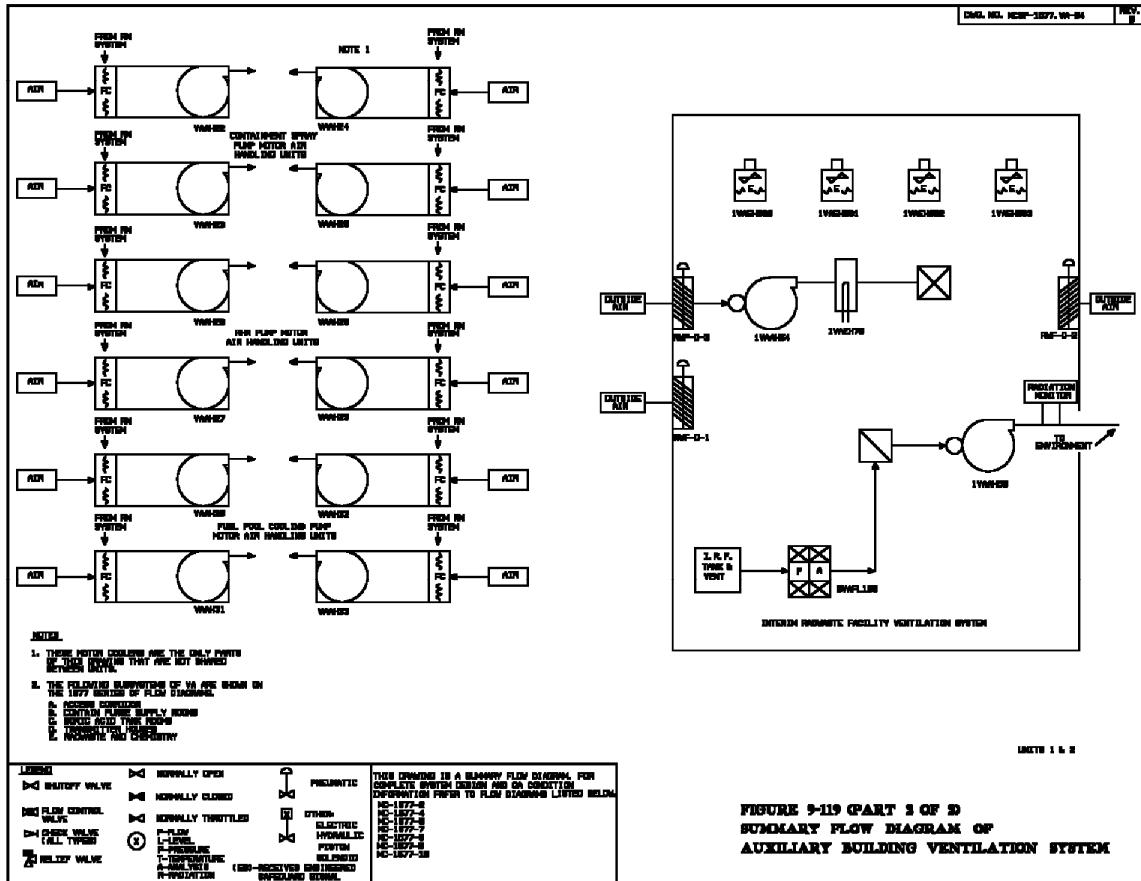


Figure 9-120. Flow Diagram of Turbine Building Ventilation System

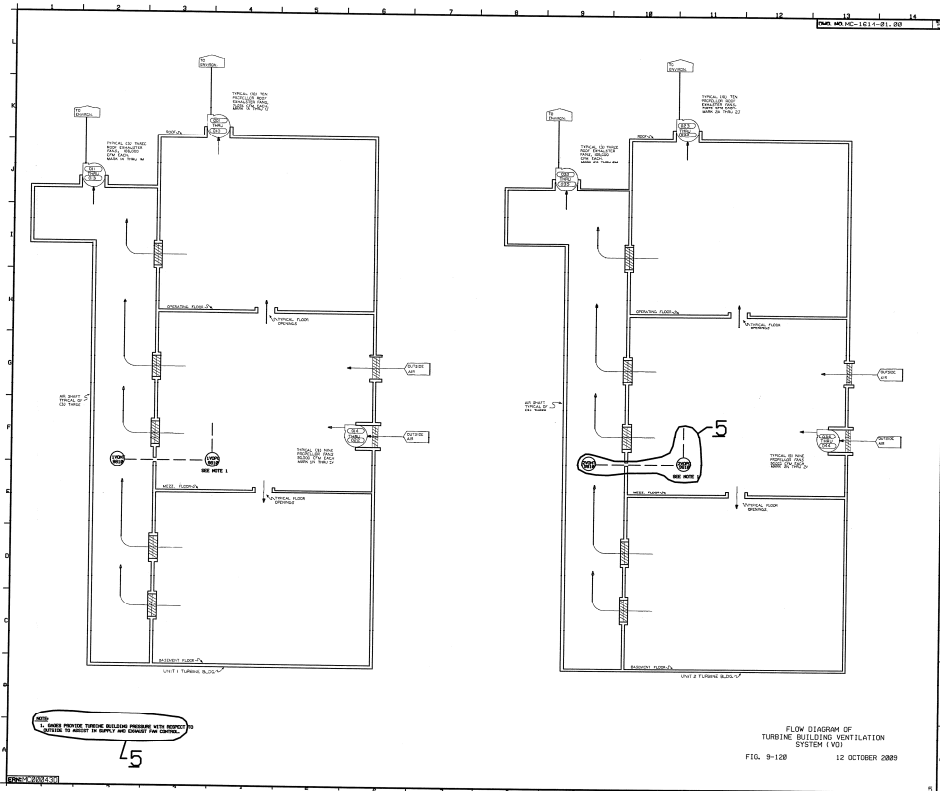
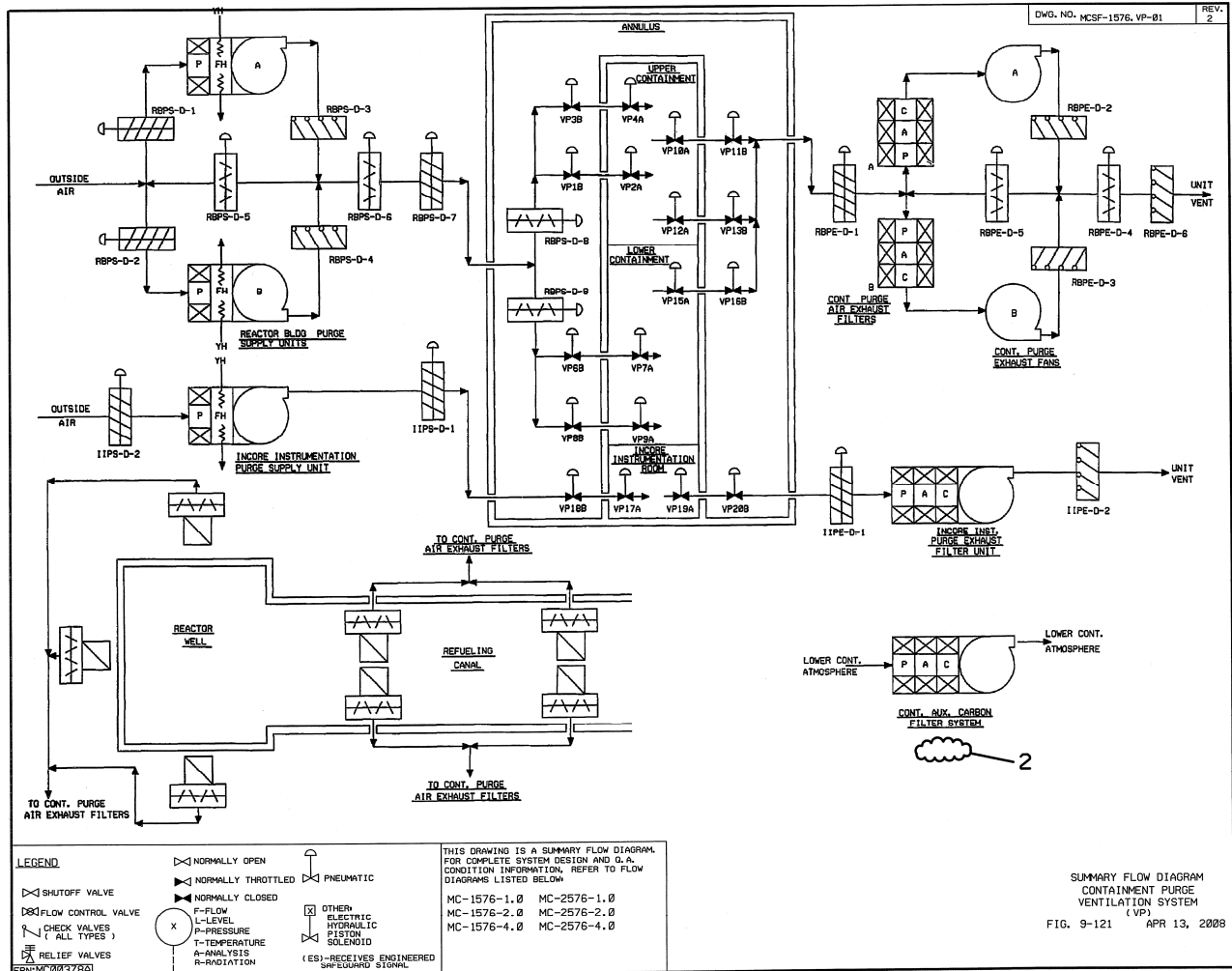


Figure 9-121. Flow Diagram of Containment Purge and Ventilation System (VP)



**Figure 9-122. Deleted Per 1994 Update**

Figure 9-123. Flow Diagram of Diesel Building Ventilation System

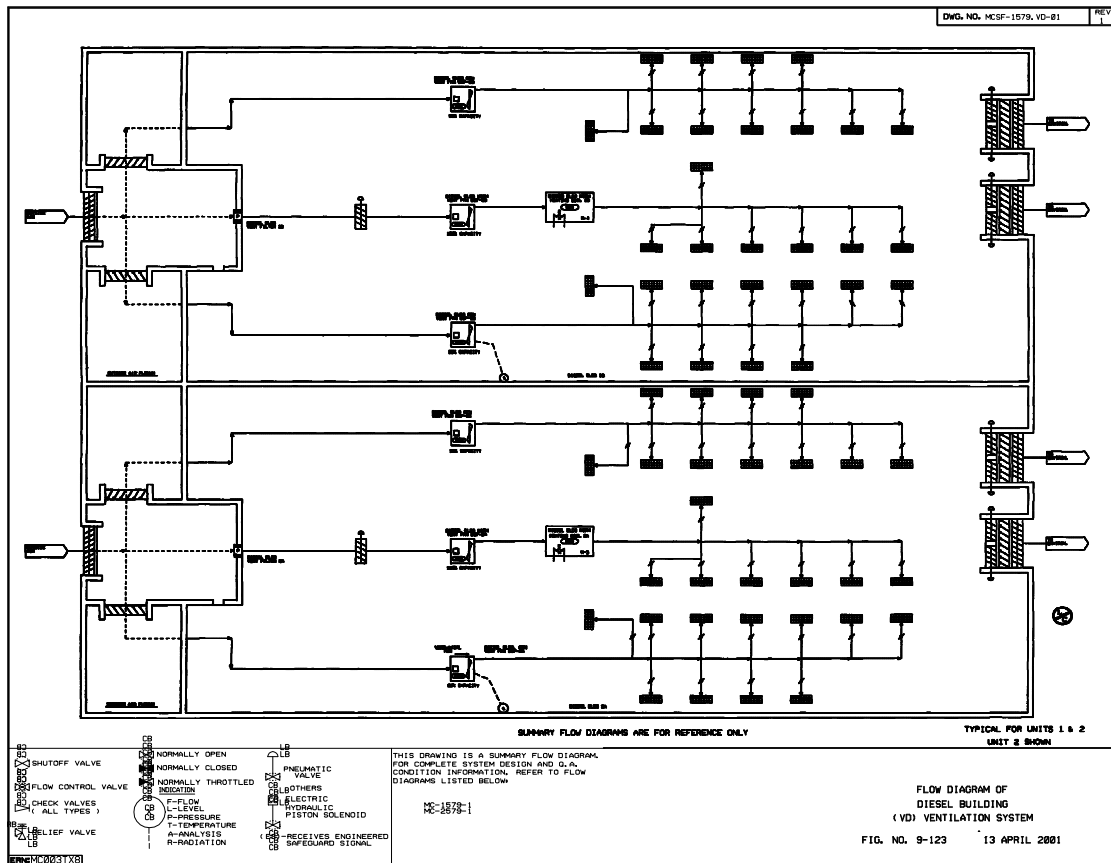




Figure 9-124. Deleted Per 2018 Update

Figure 9-125. Deleted Per 2018 Update

Figure 9-126. Deleted Per 1993 Update

Figure 9-127. Deleted Per 1993 Update

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Figure 9-130. Deleted Per 1993 Update

Figure 9-131. Deleted Per 1993 Update

Figure 9-132. Communication Systems

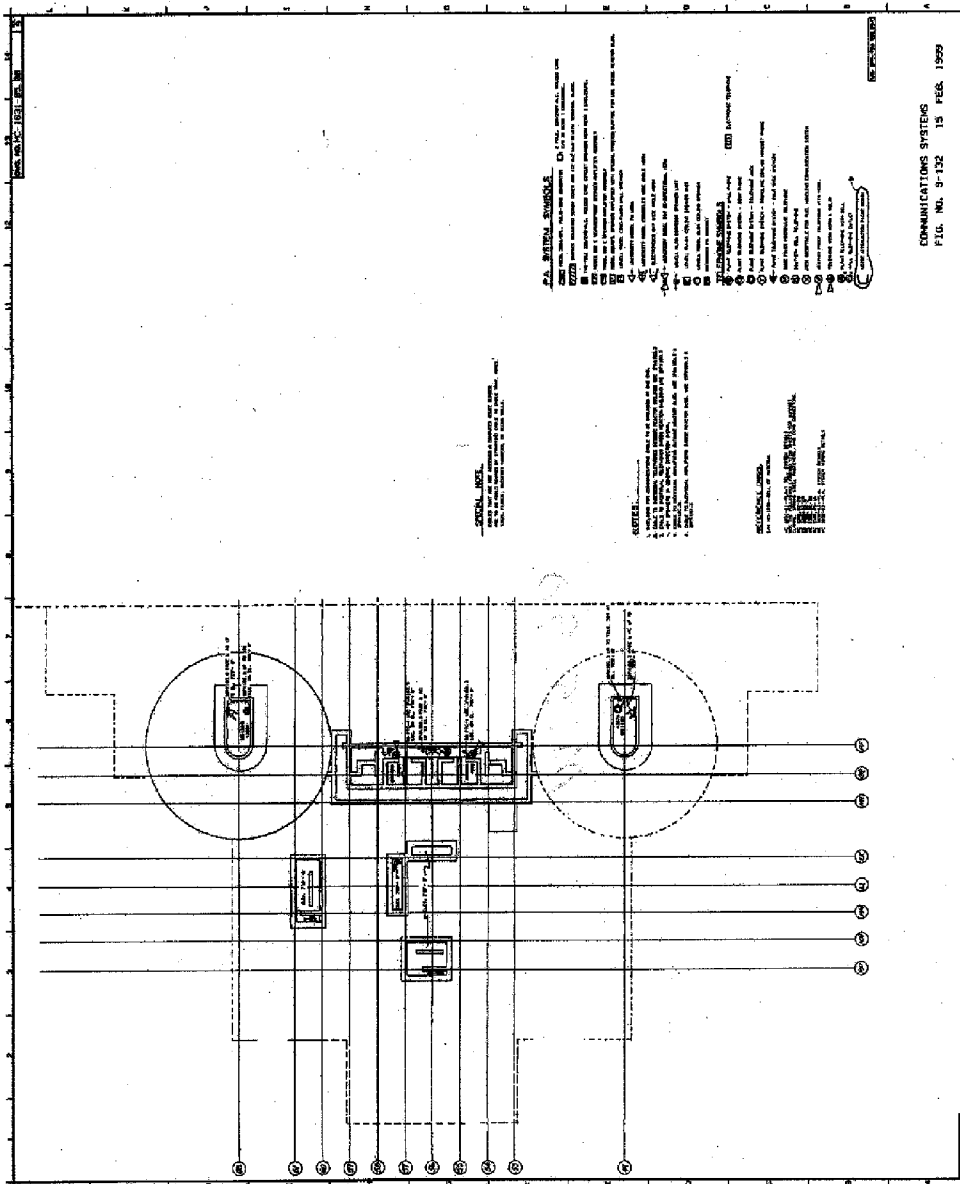


Figure 9-133. Communication Systems

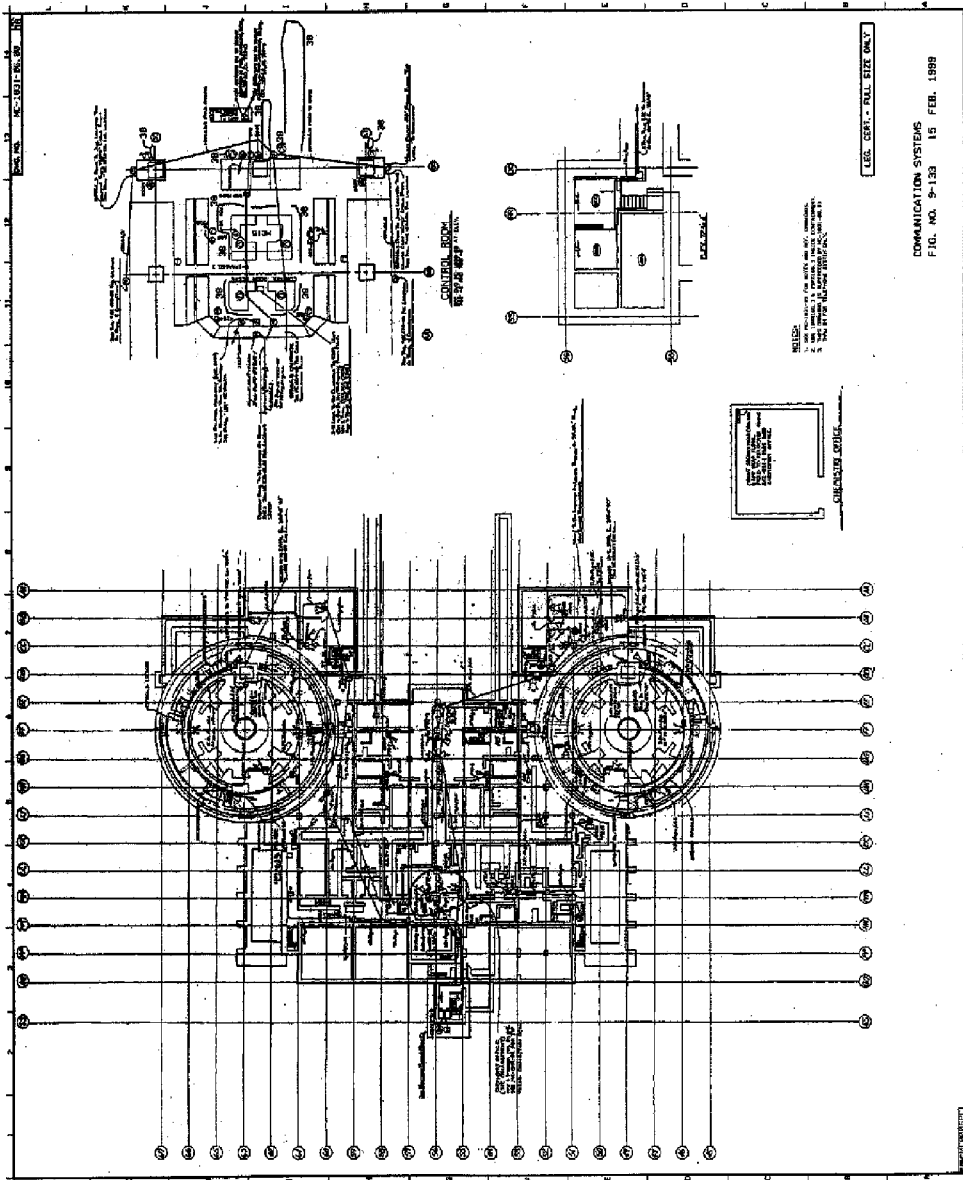


Figure 9-134. Communication Systems

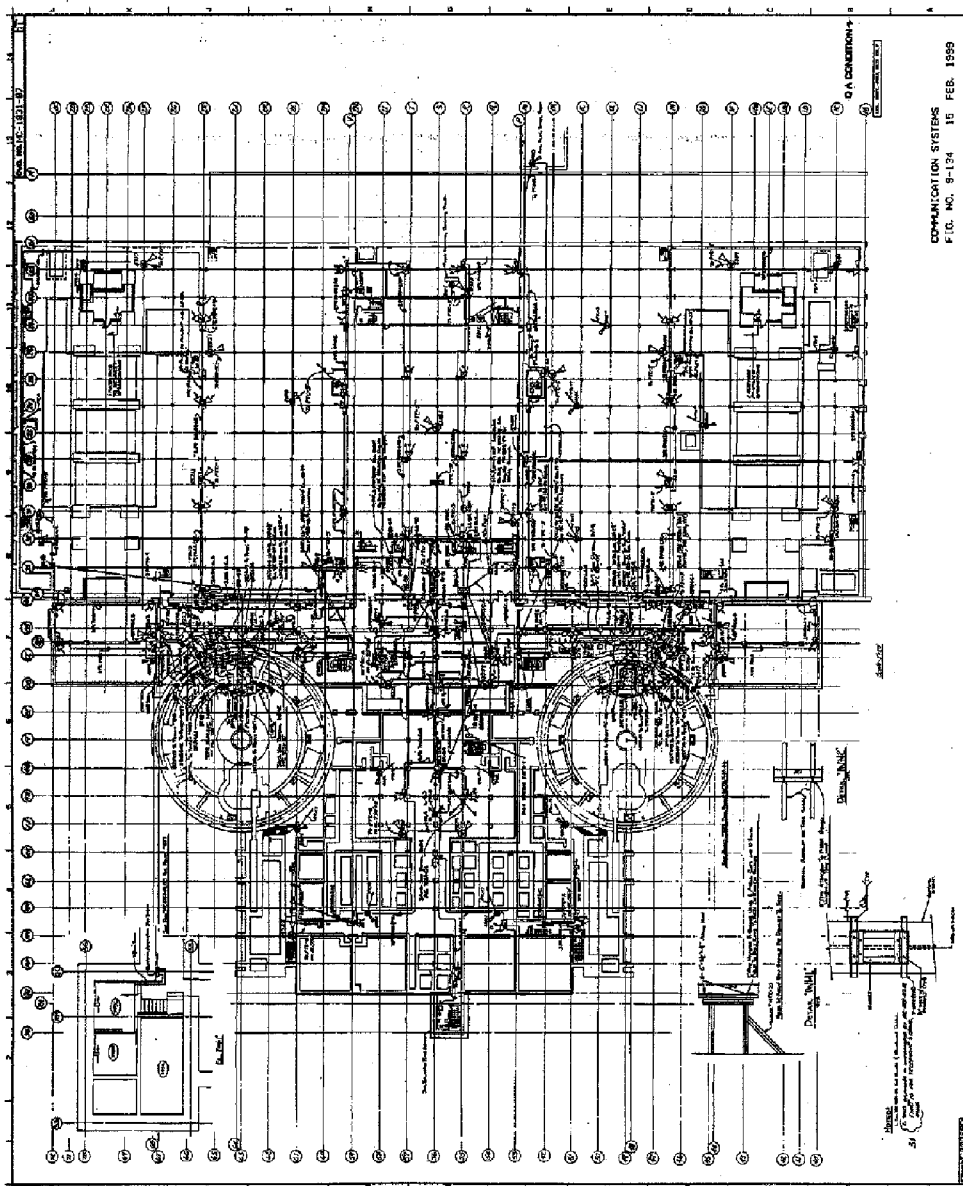


Figure 9-135. Communication Systems

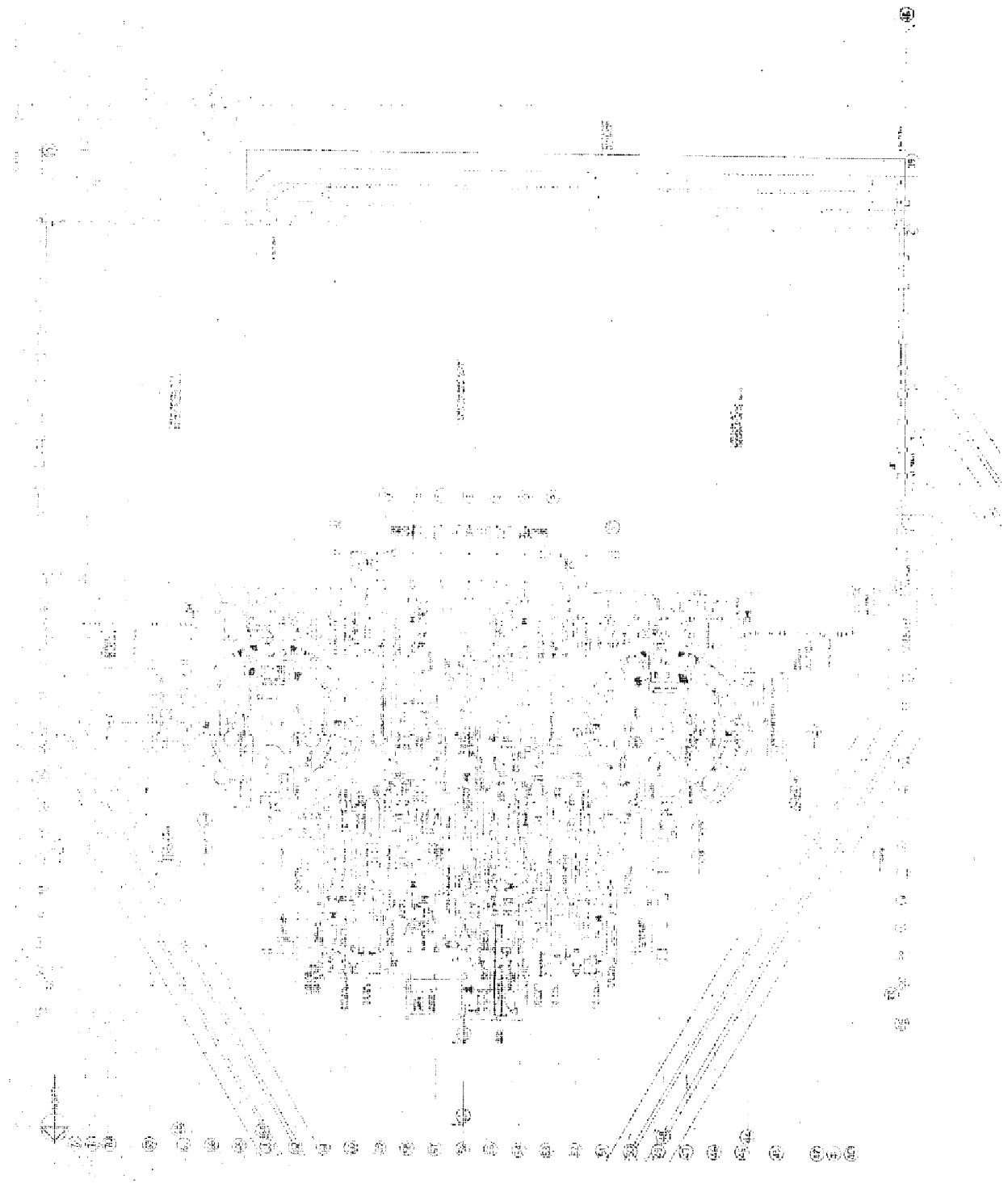


Figure 9-136. Communication Systems

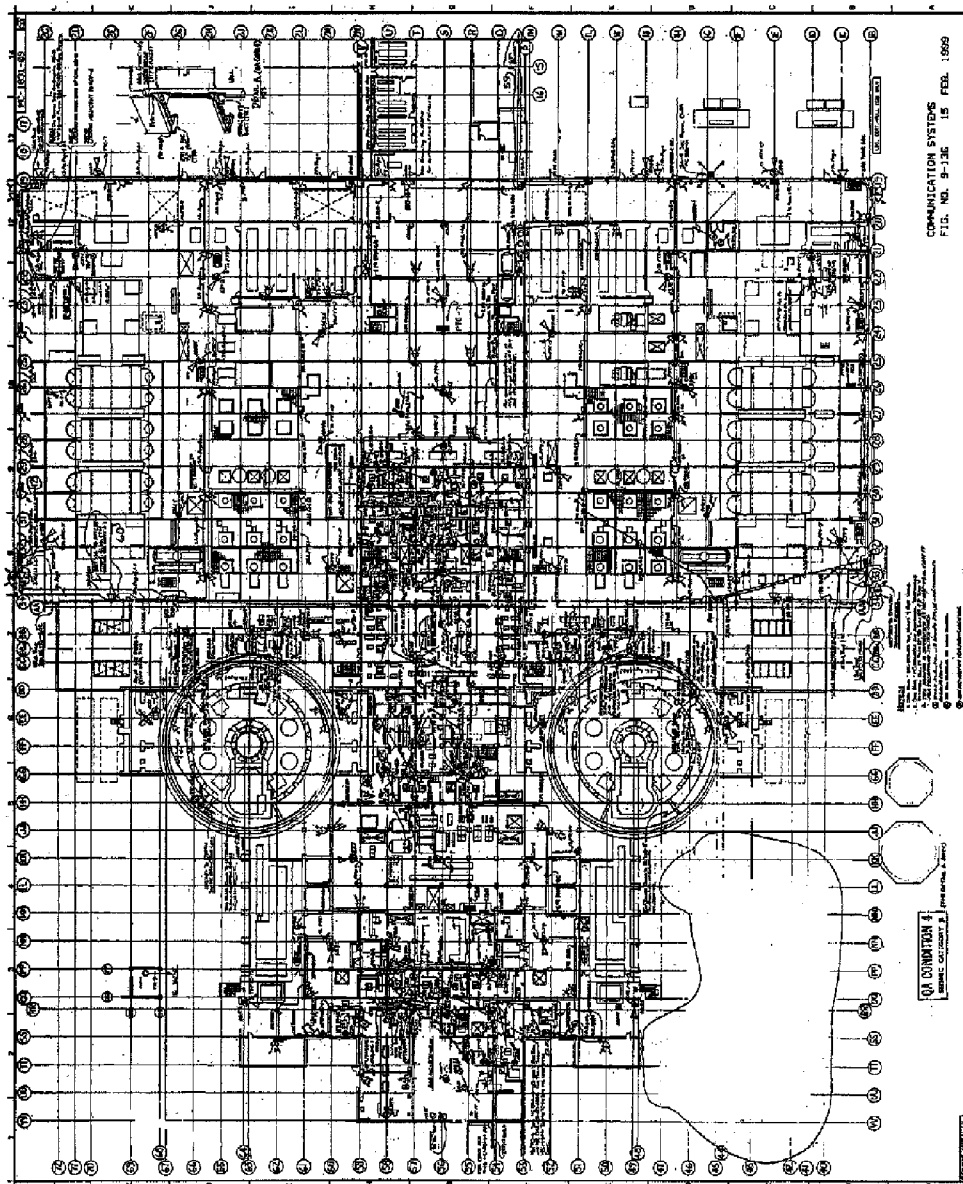




Figure 9-137. Communication Systems

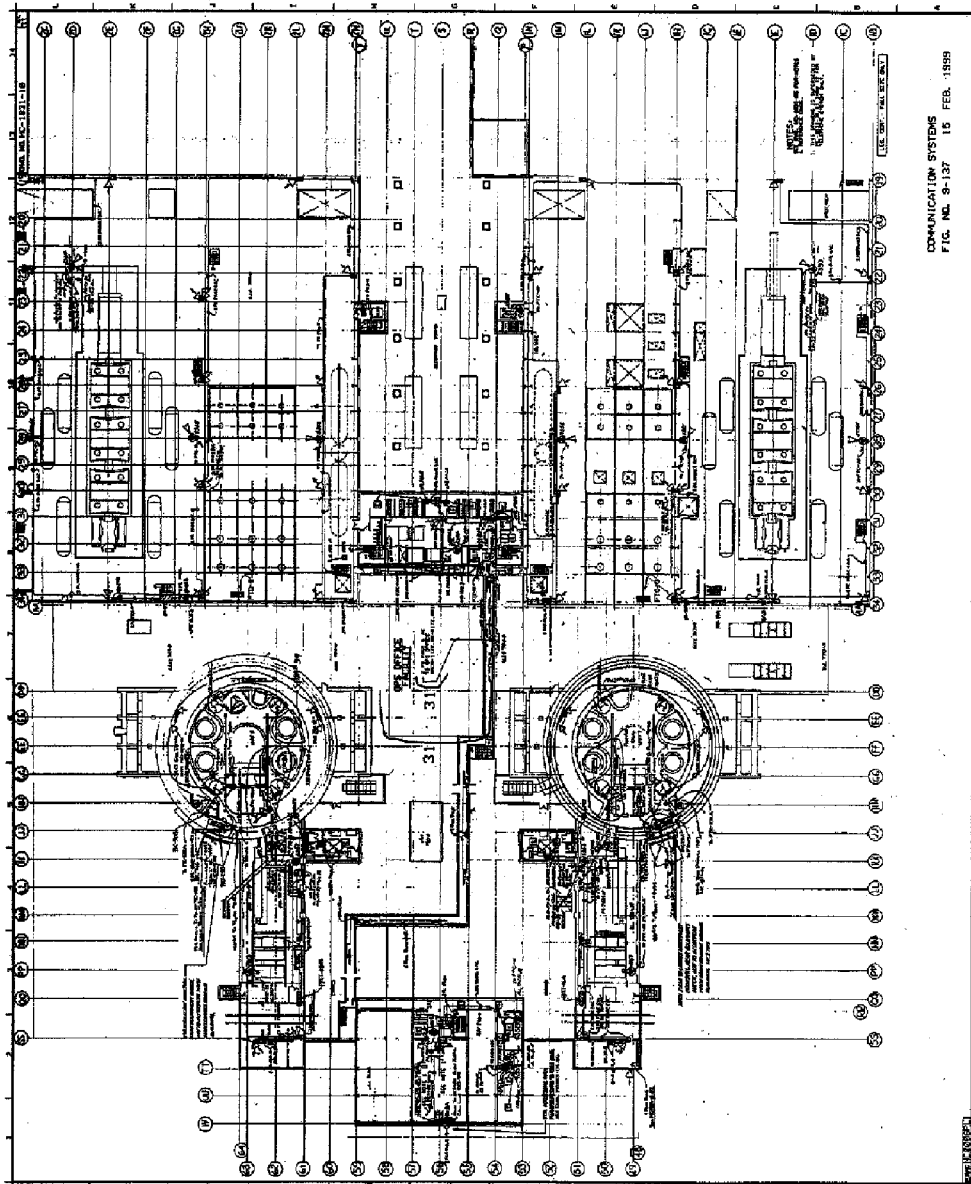
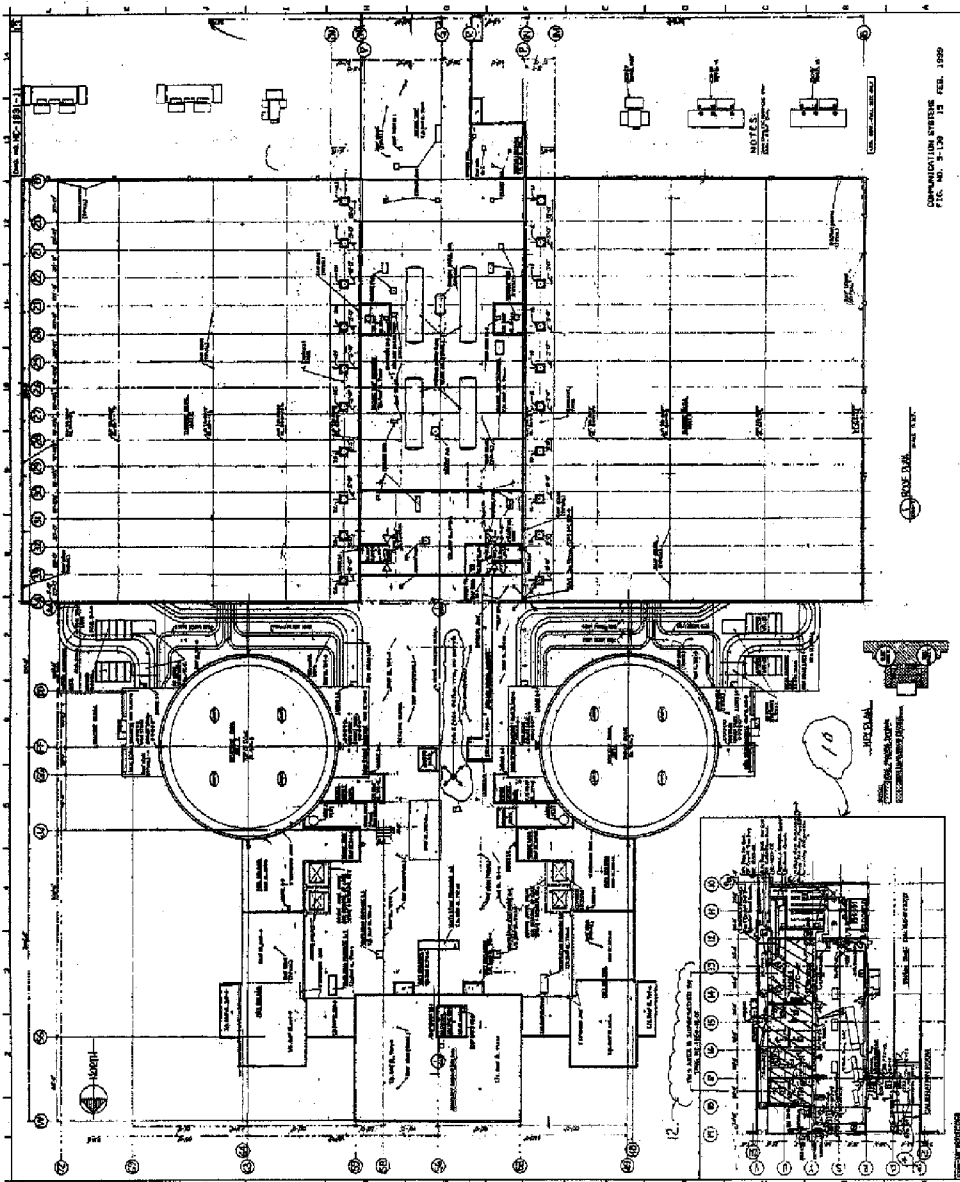


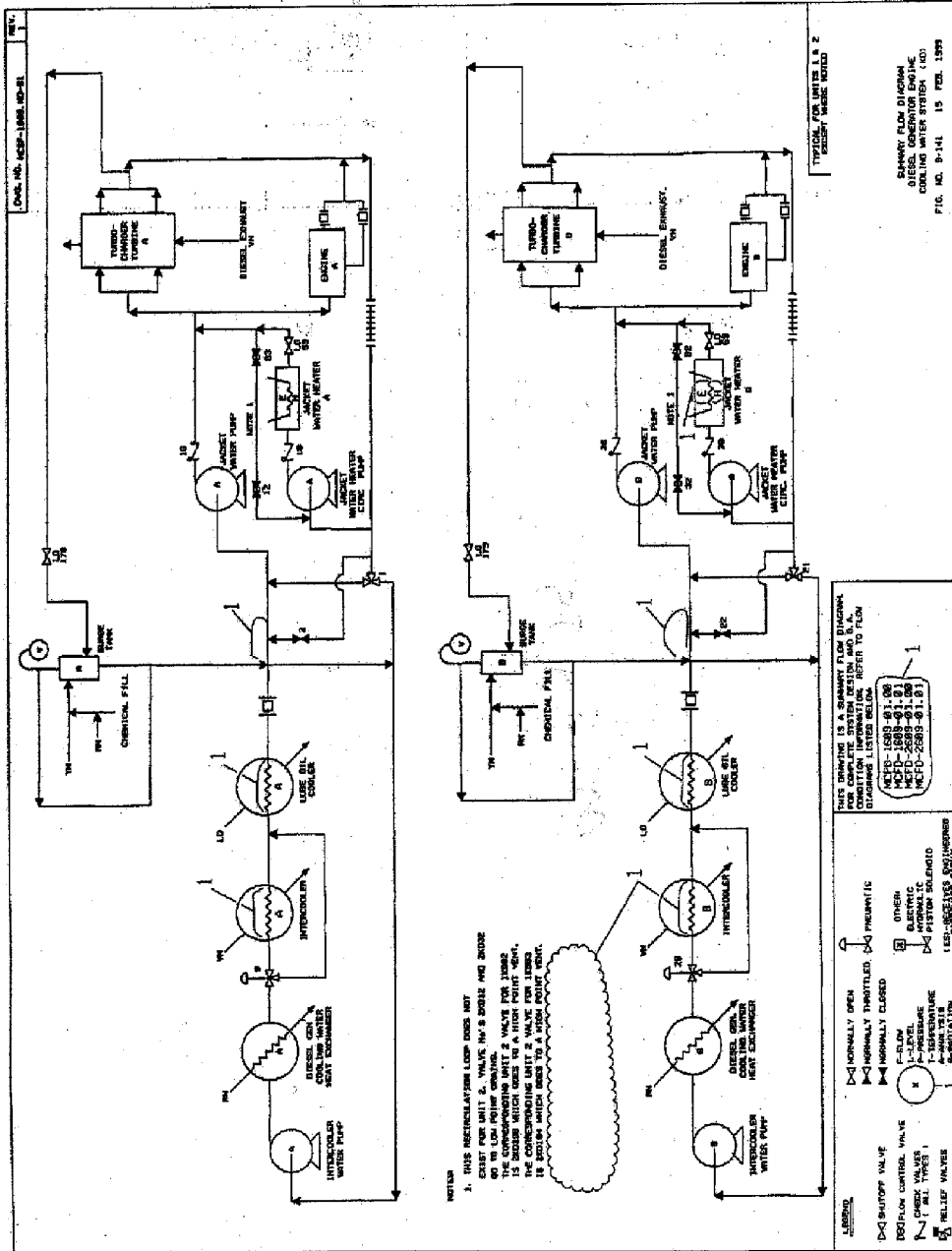
Figure 9-138. Communication Systems





**Figure 9-140. Deleted Per 1993 Update**

Figure 9-141. Flow Diagram of Diesel Generator Engine Cooling Water System



**Figure 9-142. Deleted Per 1993 Update**

Figure 9-143. Flow Diagram of Diesel Generator Engine Starting Air System (VG)

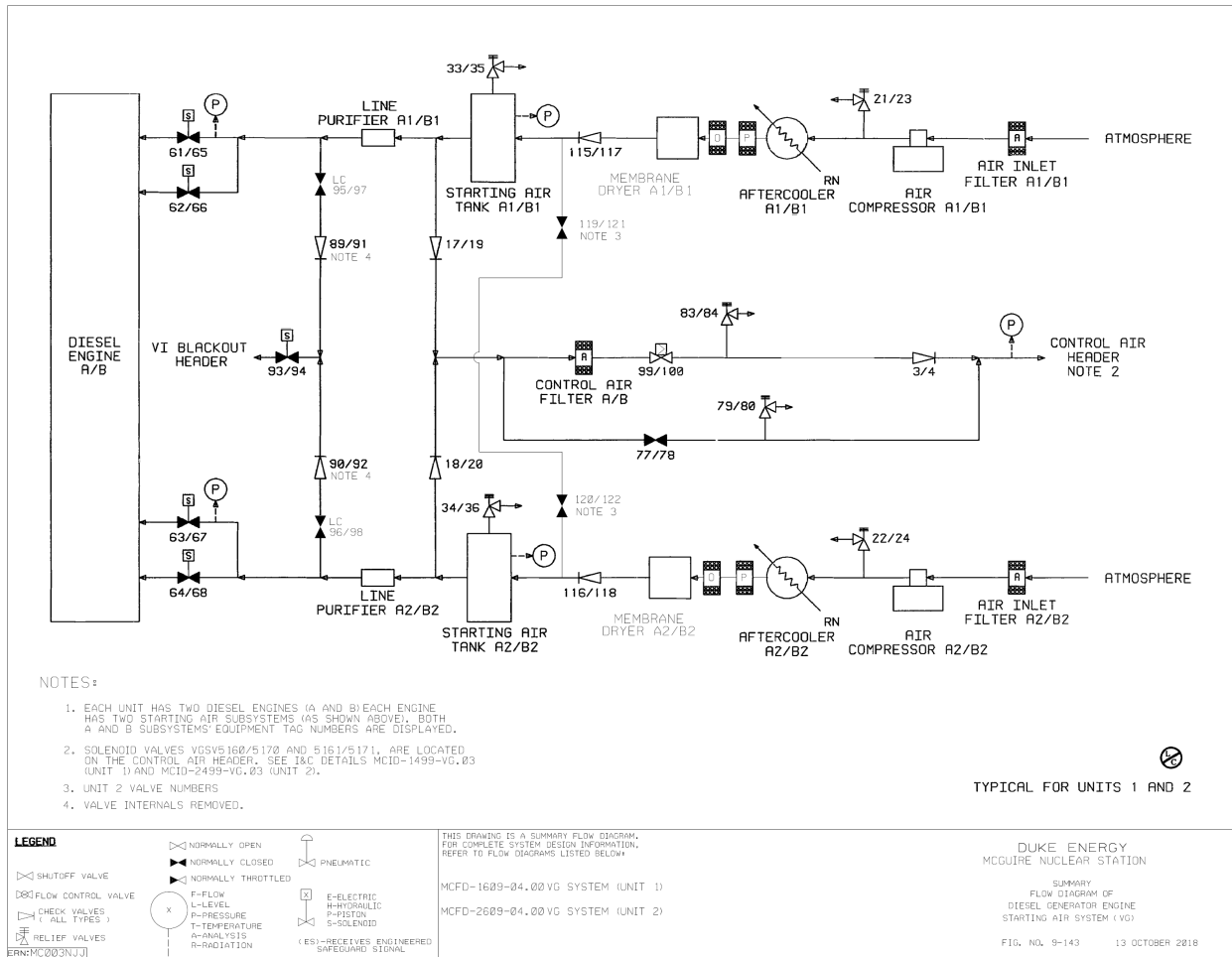
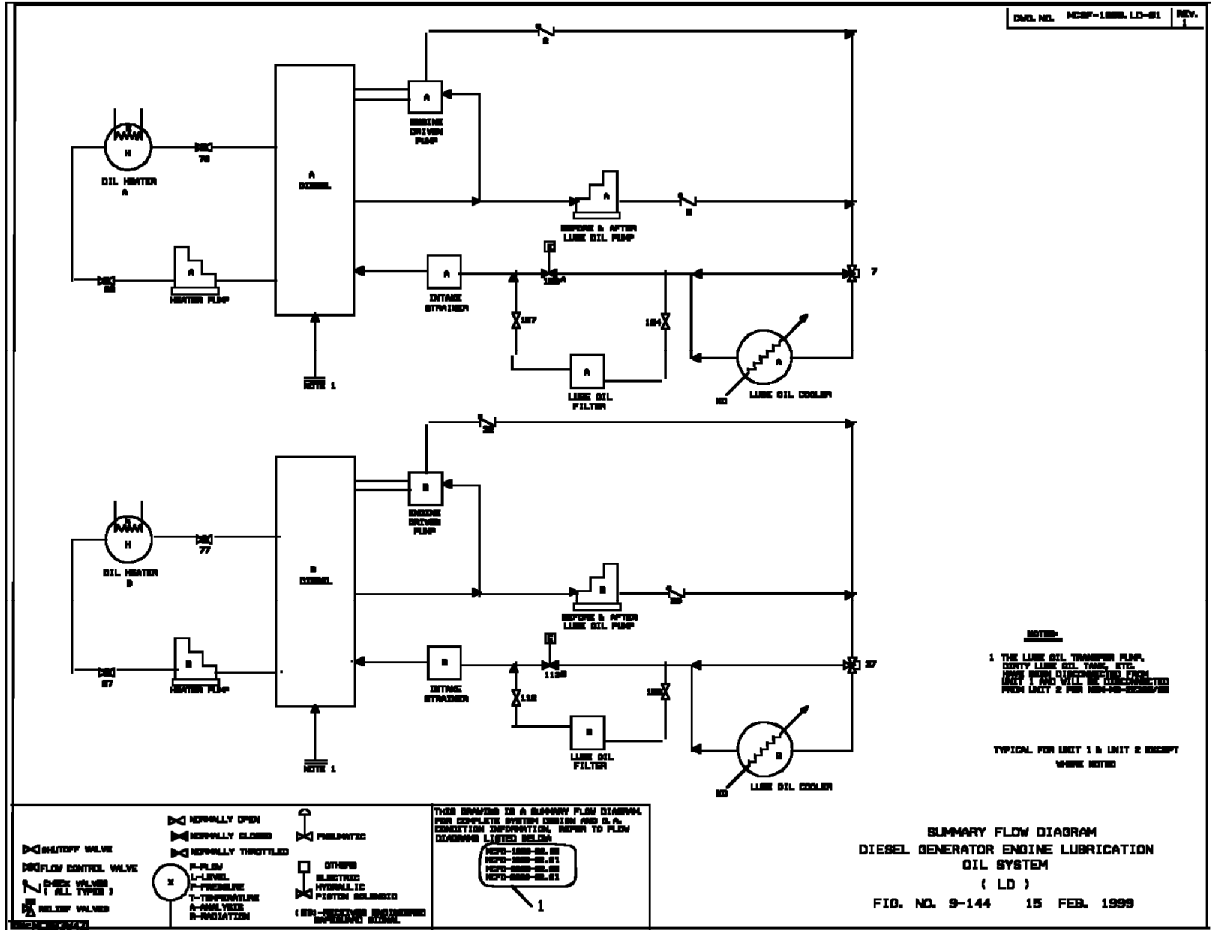


Figure 9-144. Flow Diagram of Diesel Generator Engine Lube Oil System





**Figure 9-145. Deleted Per 1993 Update**

Figure 9-146. Groundwater Drainage System

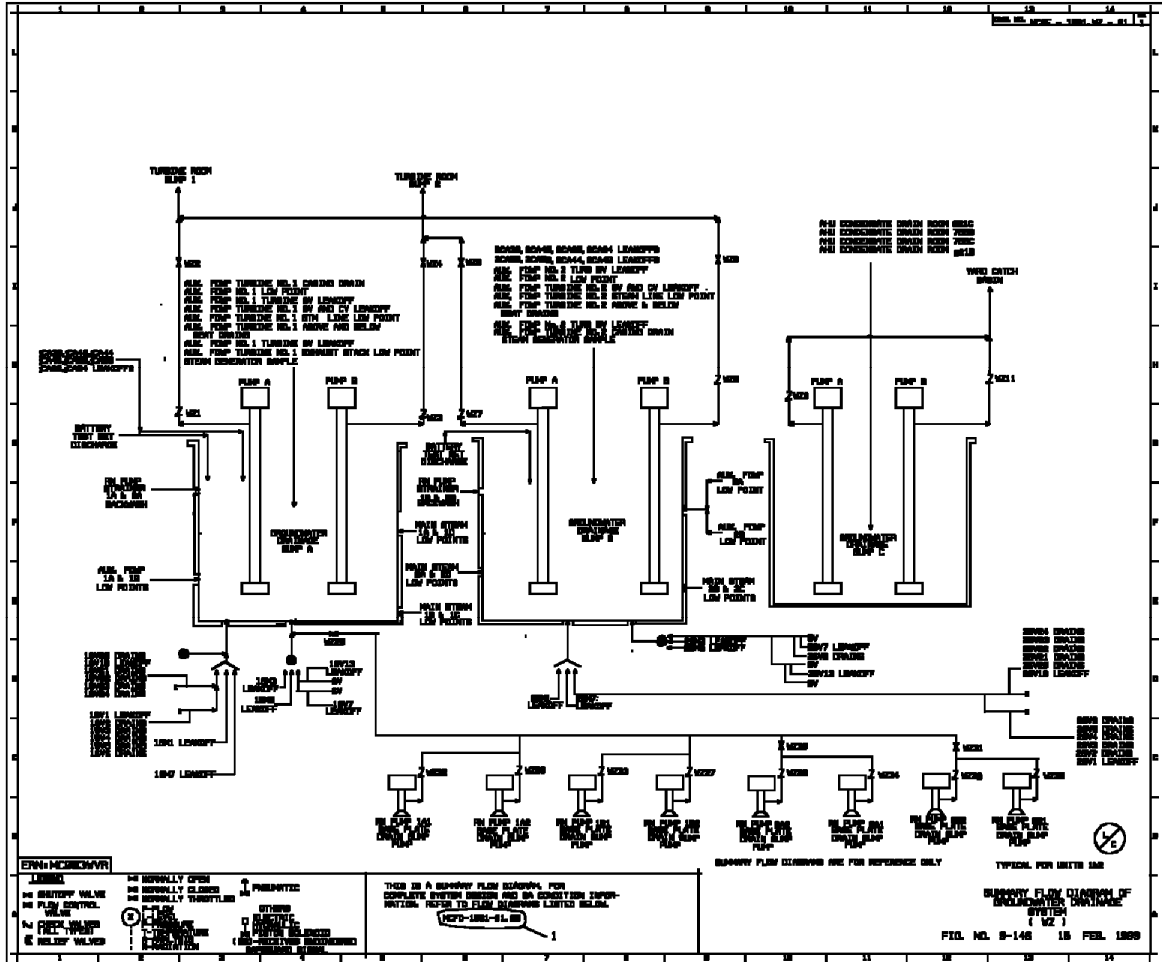


Figure 9-147. Flow Diagram of Diesel Generator Engine Crankcase Vacuum System

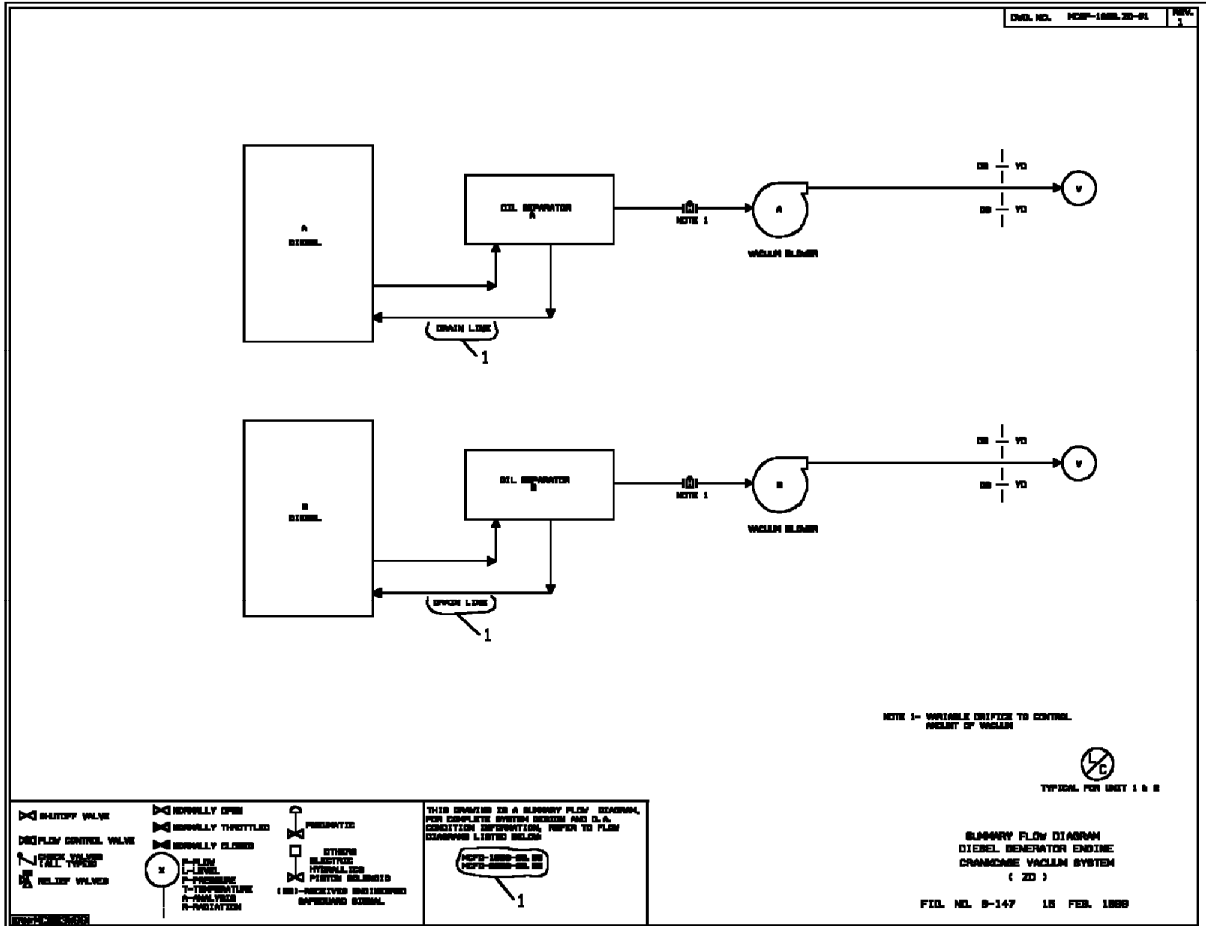




Figure 9-149. Flow Diagram of Diesel Generator Engine Air Intake & Exhaust System

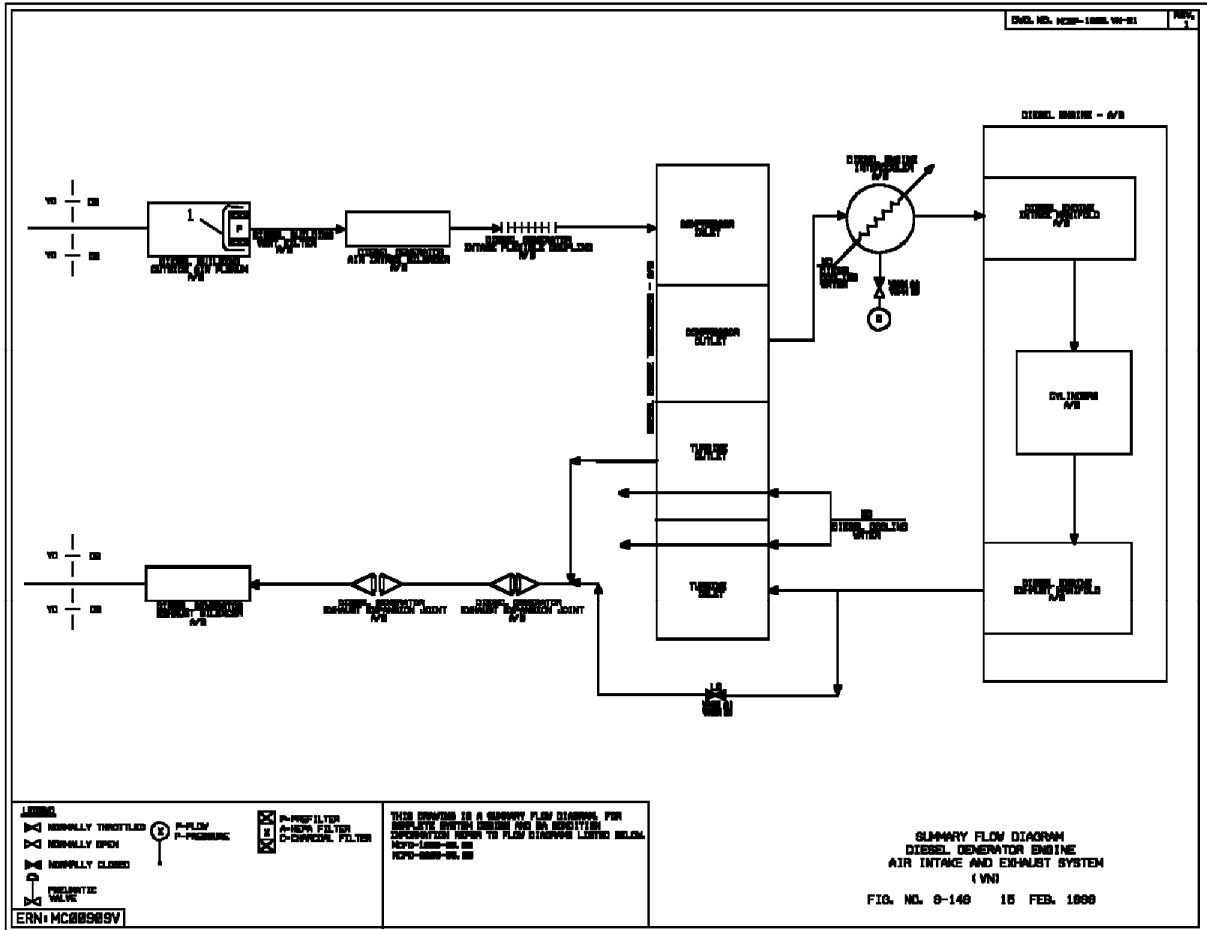


Figure 9-150. Containment Air Release and Addition System

