Appendix 9B. Figures

Figure 9-1. Fuel Building - General Arrangement

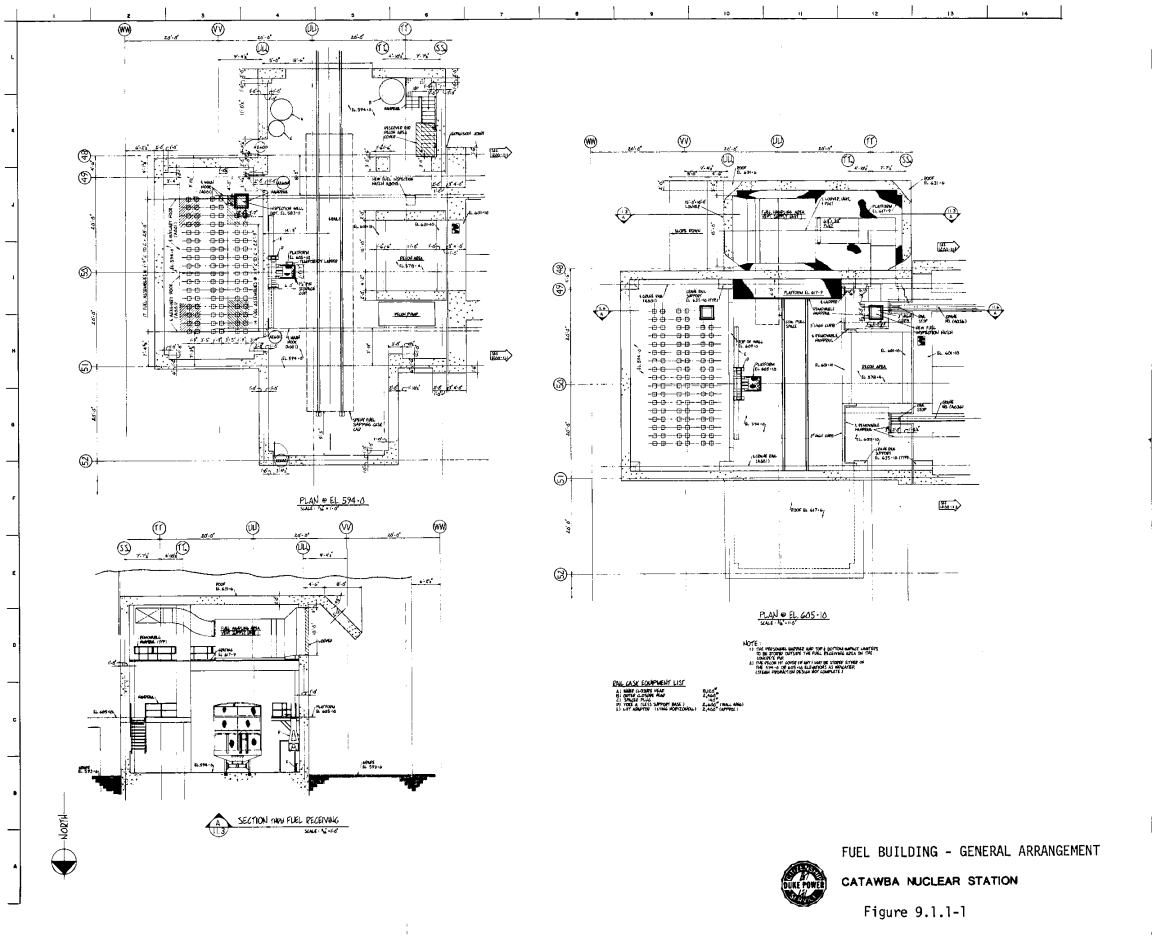

Figure 9-2. Fuel Building - Longitudinal Section Thru Fuel Receiving

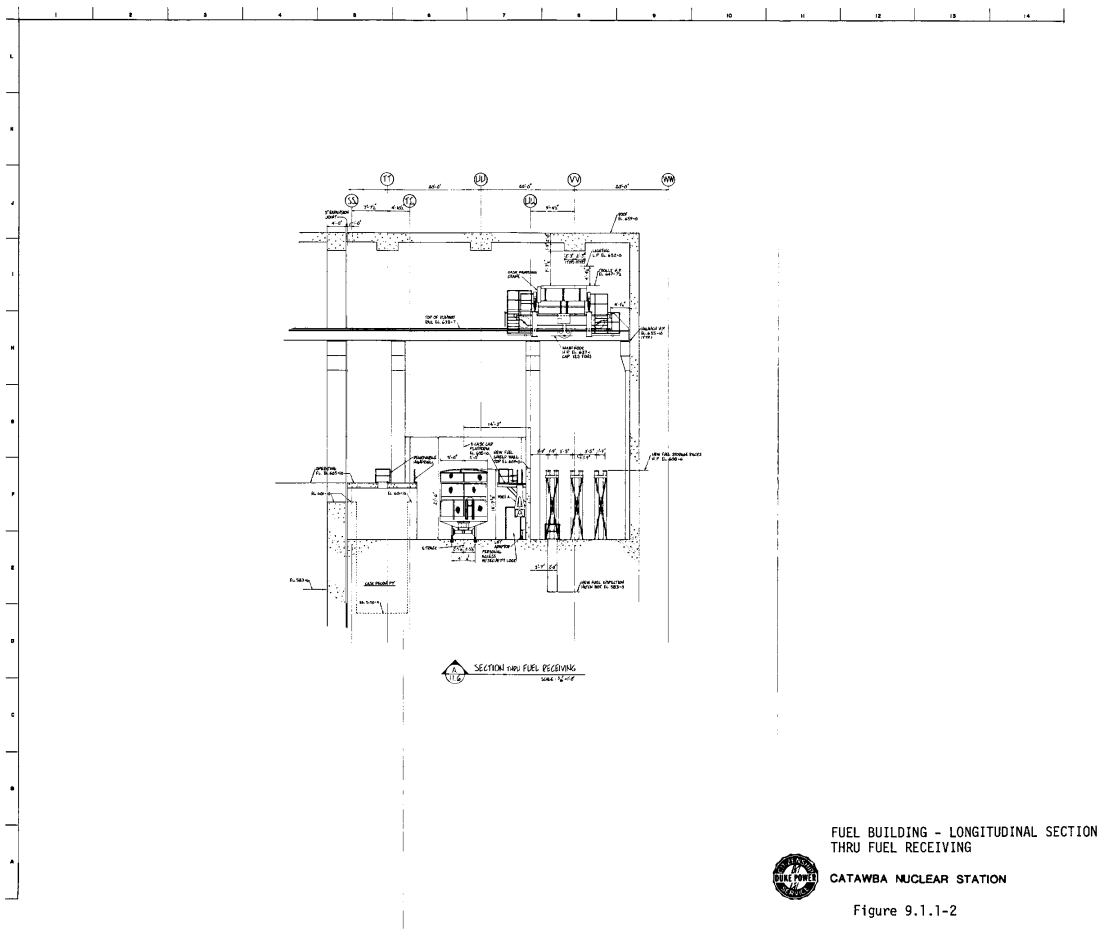

Figure 9-3. Fuel Pool Racks

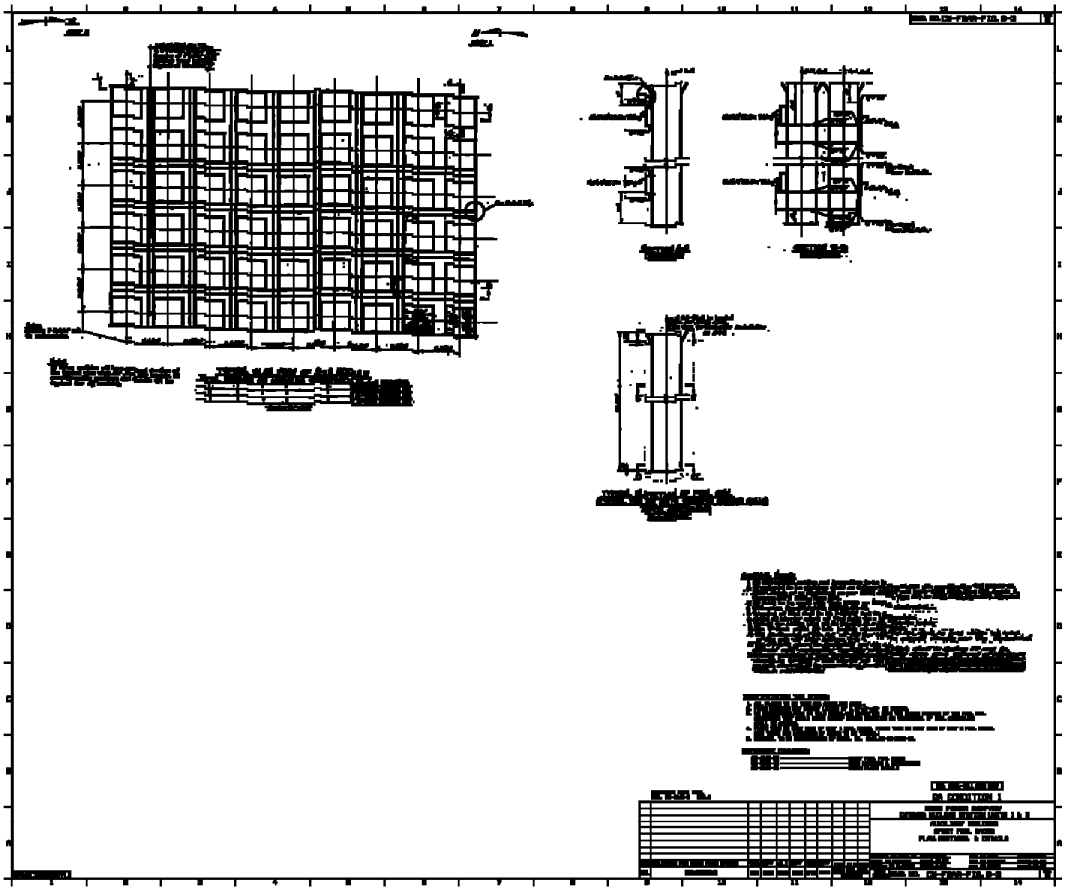

Figure 9-4. Fuel Building Plan @ El. 605+10

Figure 9-5. Fuel Building - Longitudinal Section Thru Fuel Pool

Figure 9-6. Cask Drop Evaluation

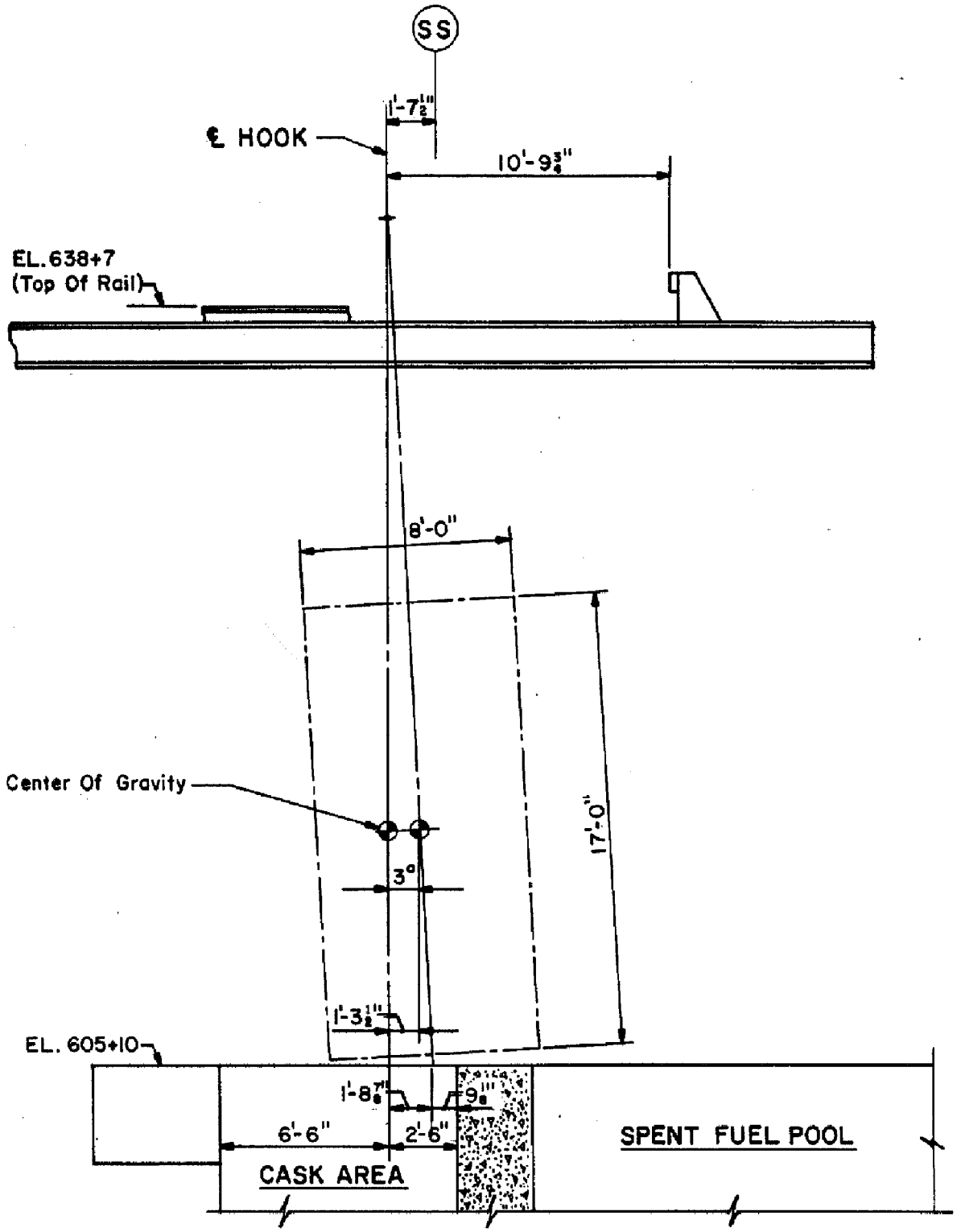

Figure 9-7. Cask Drop Evaluation

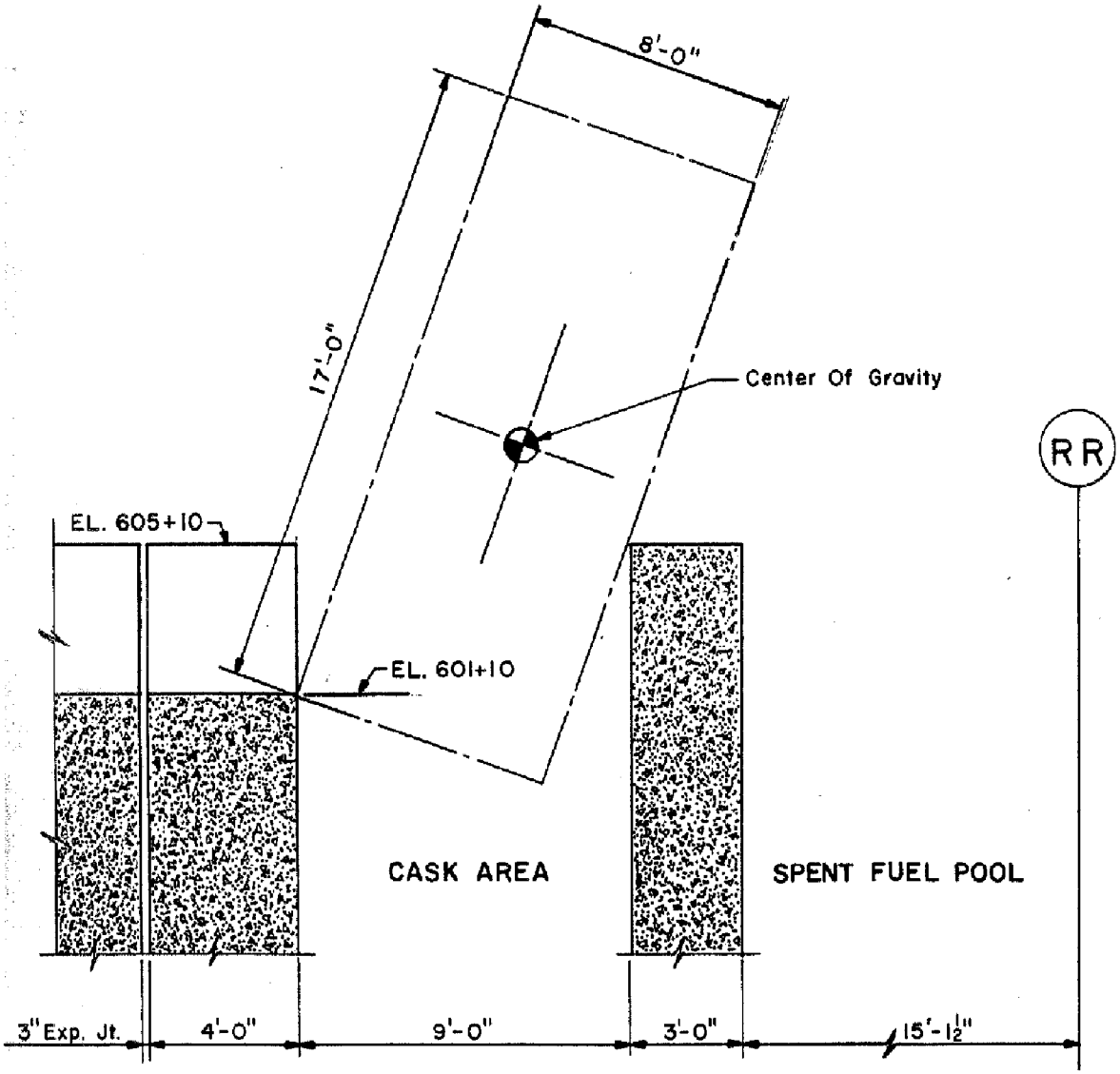

Figure 9-8. Spacer for Spent Fuel Storage

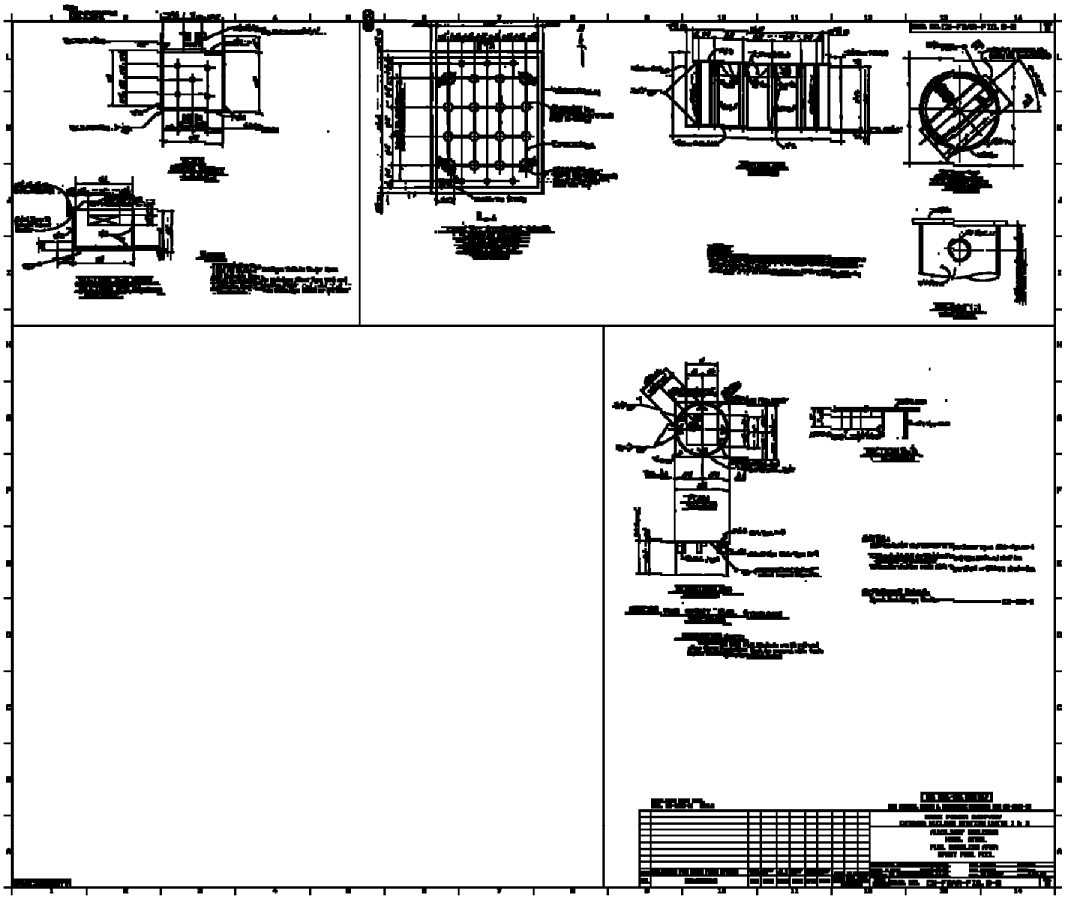

Figure 9-9. Spent Fuel Pool Racks - General Arrangement

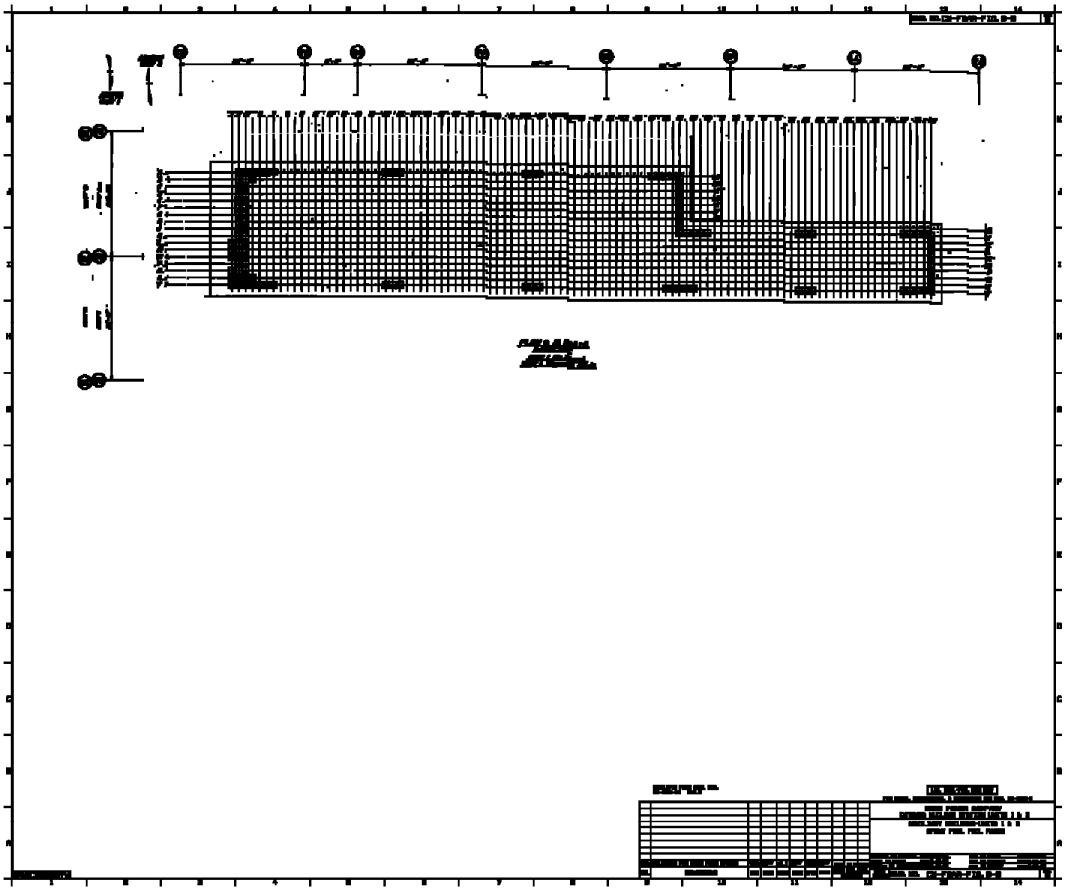

Figure 9-10. Spent Fuel Pool Racks - Details

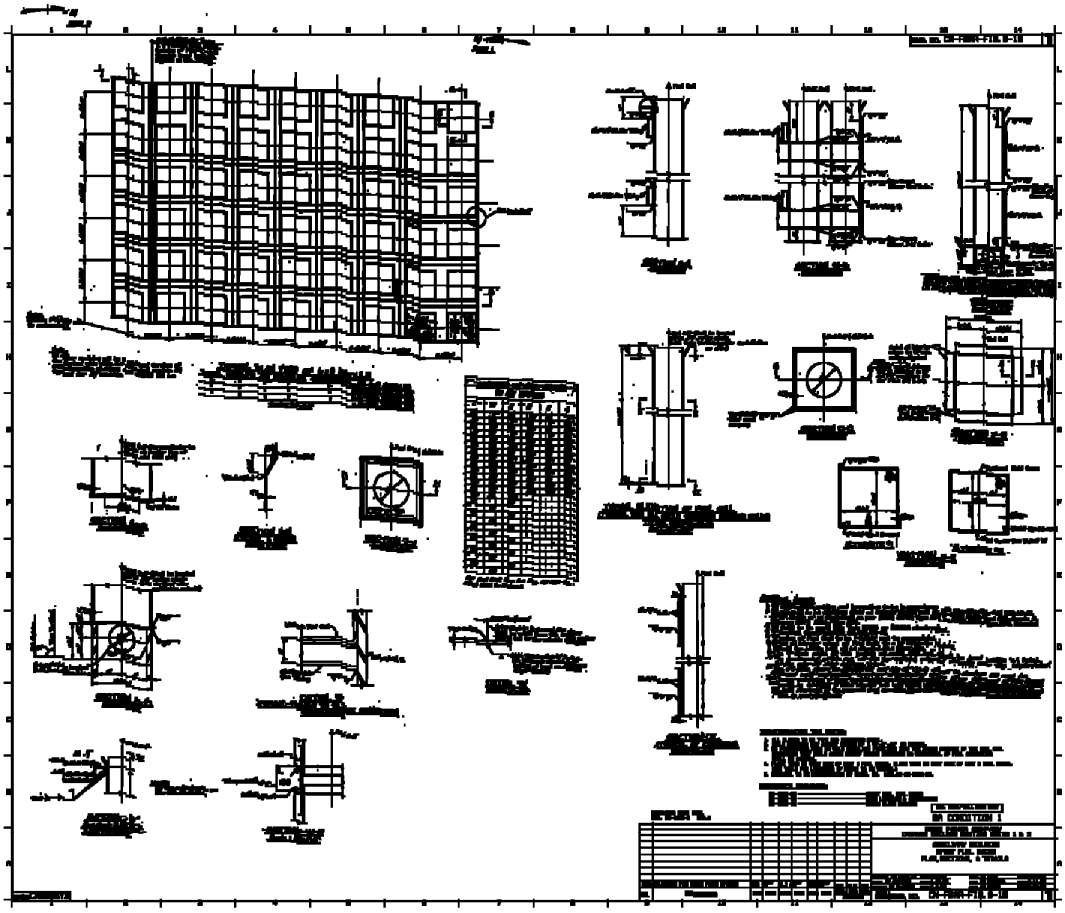

Figure 9-11. Flow Diagram of Spent Fuel Cooling System

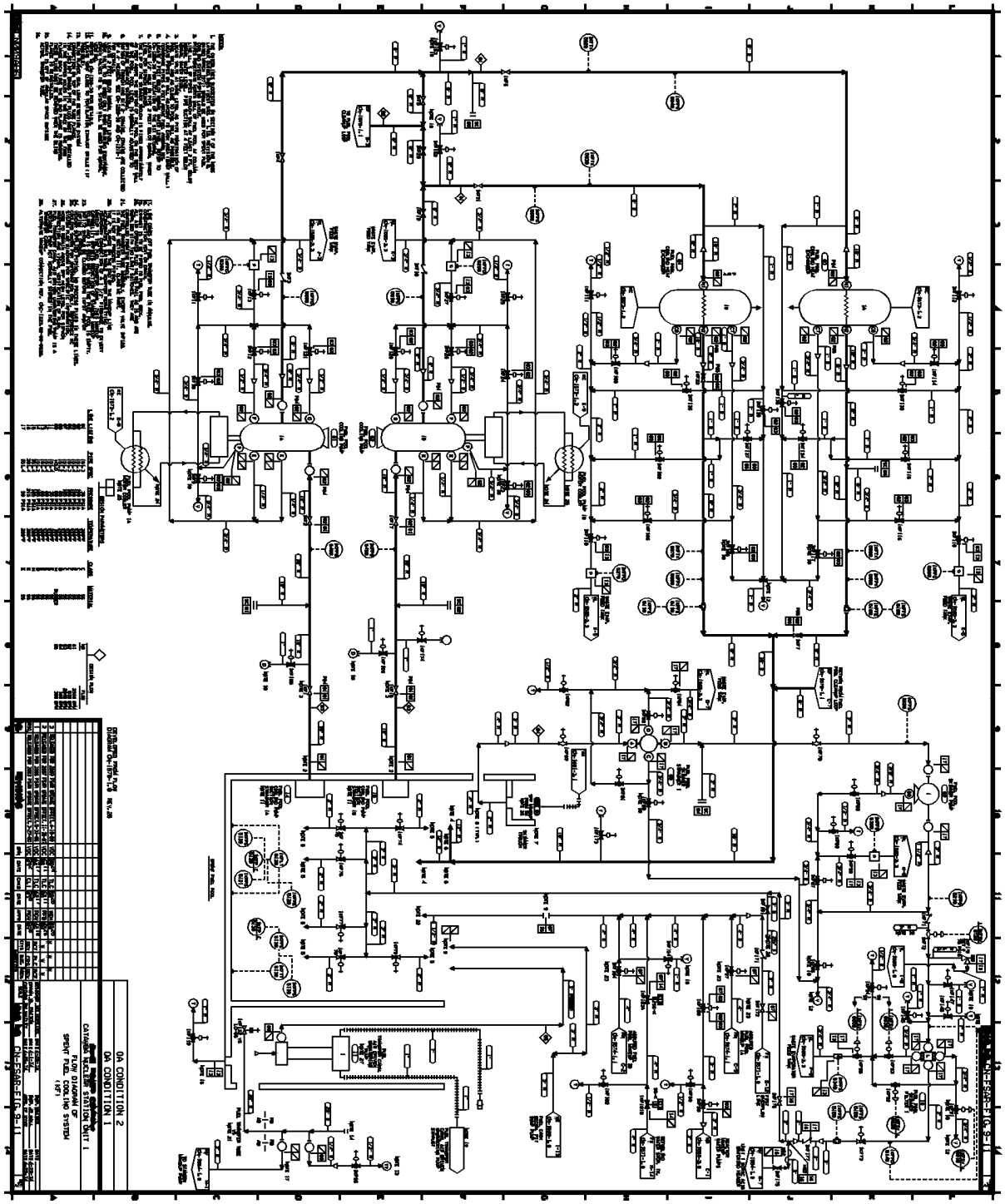

Figure 9-12. Flow Diagram of Spent Fuel Cooling System

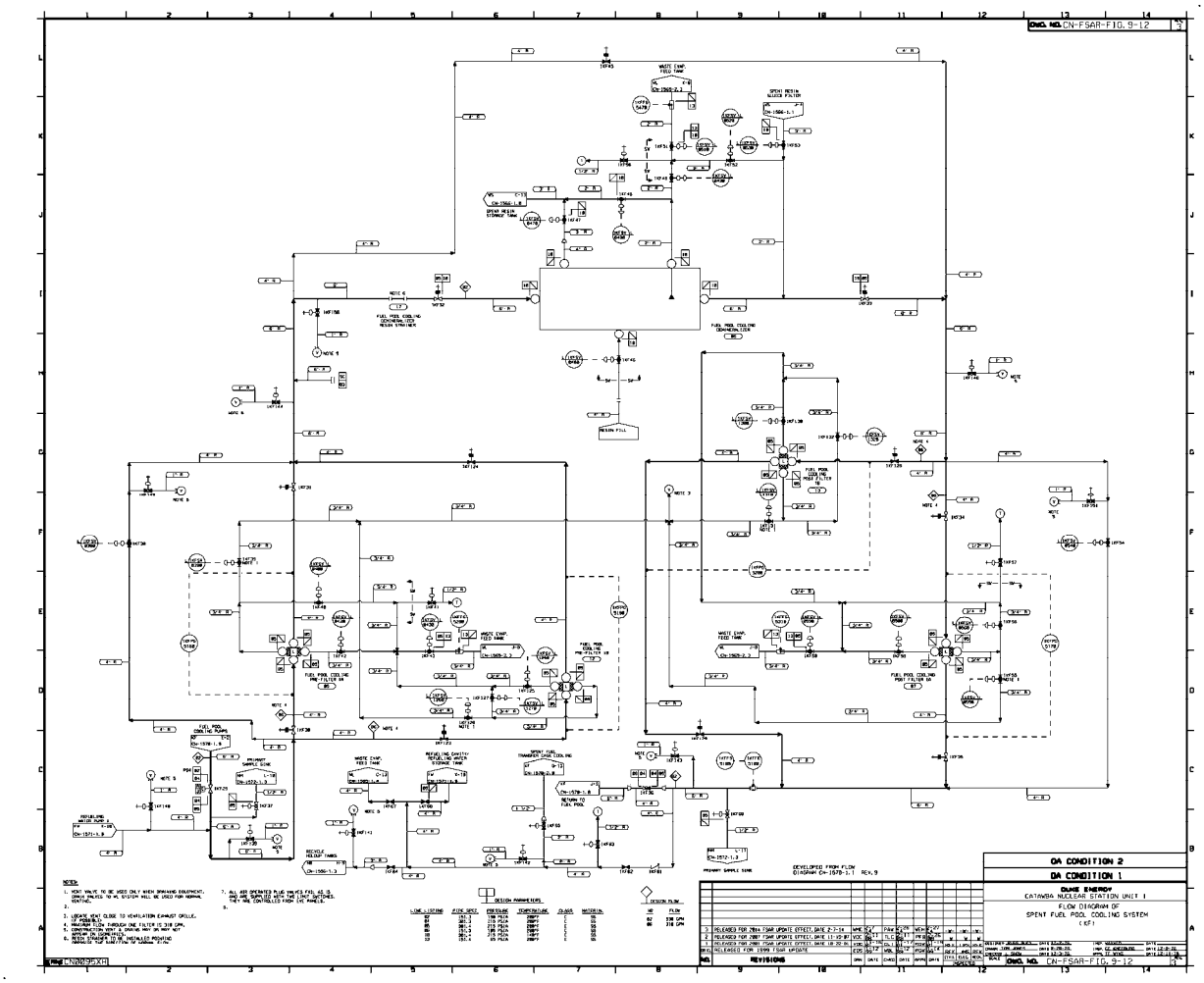

Figure 9-13. Spent Fuel Pool Temperature Versus Time

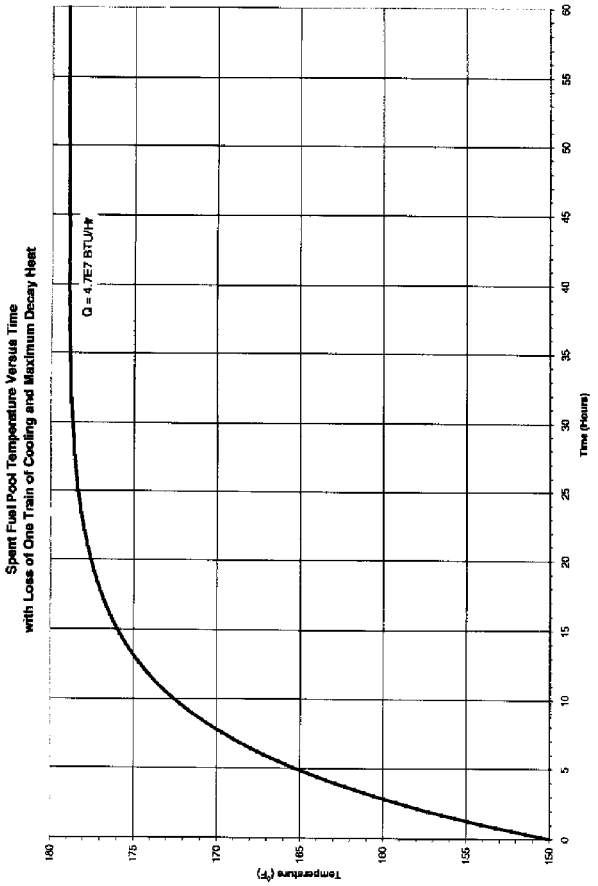

Figure 9-14. Refueling Machine

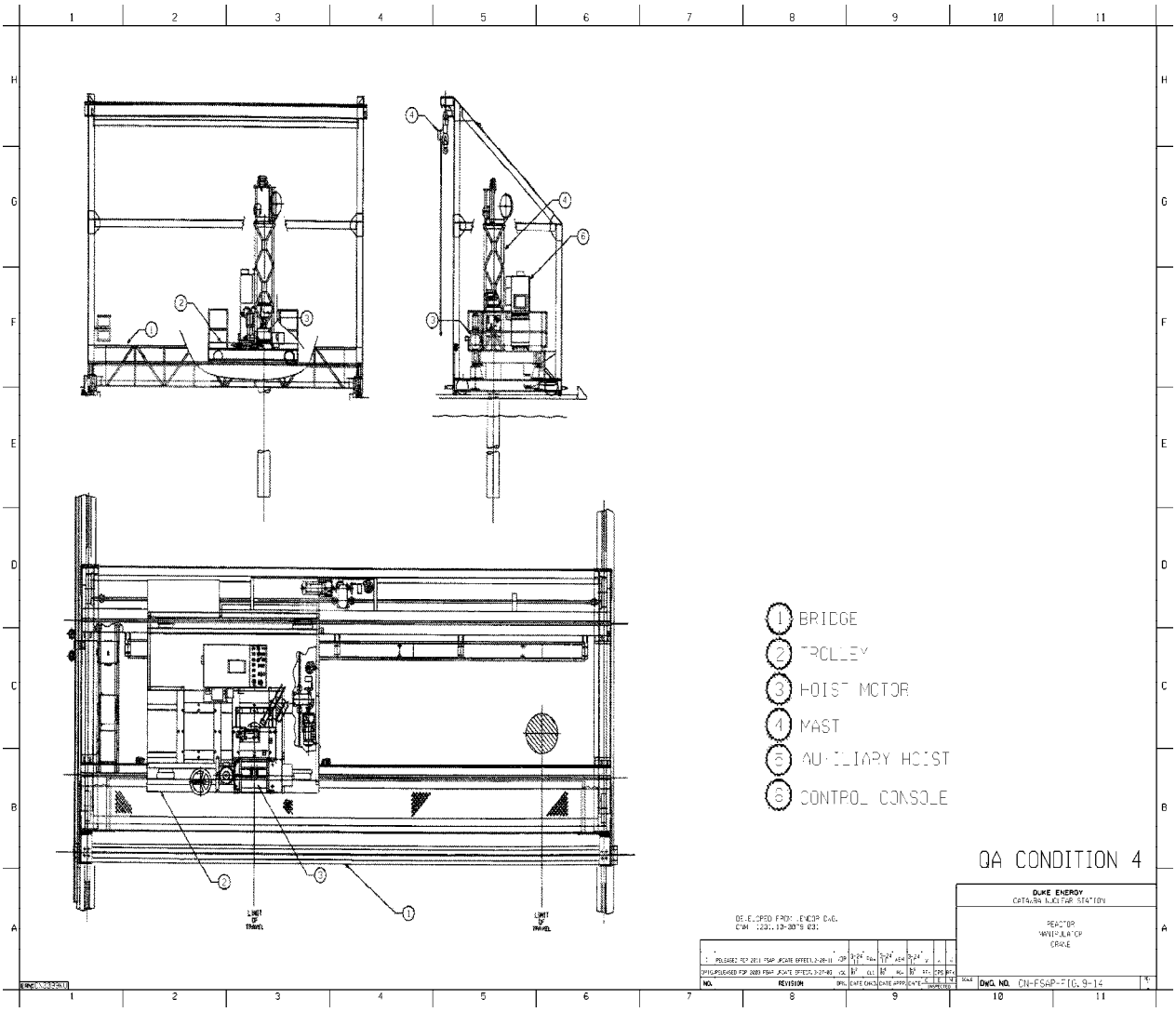

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Figure 9-15. Fuel Handling Machine

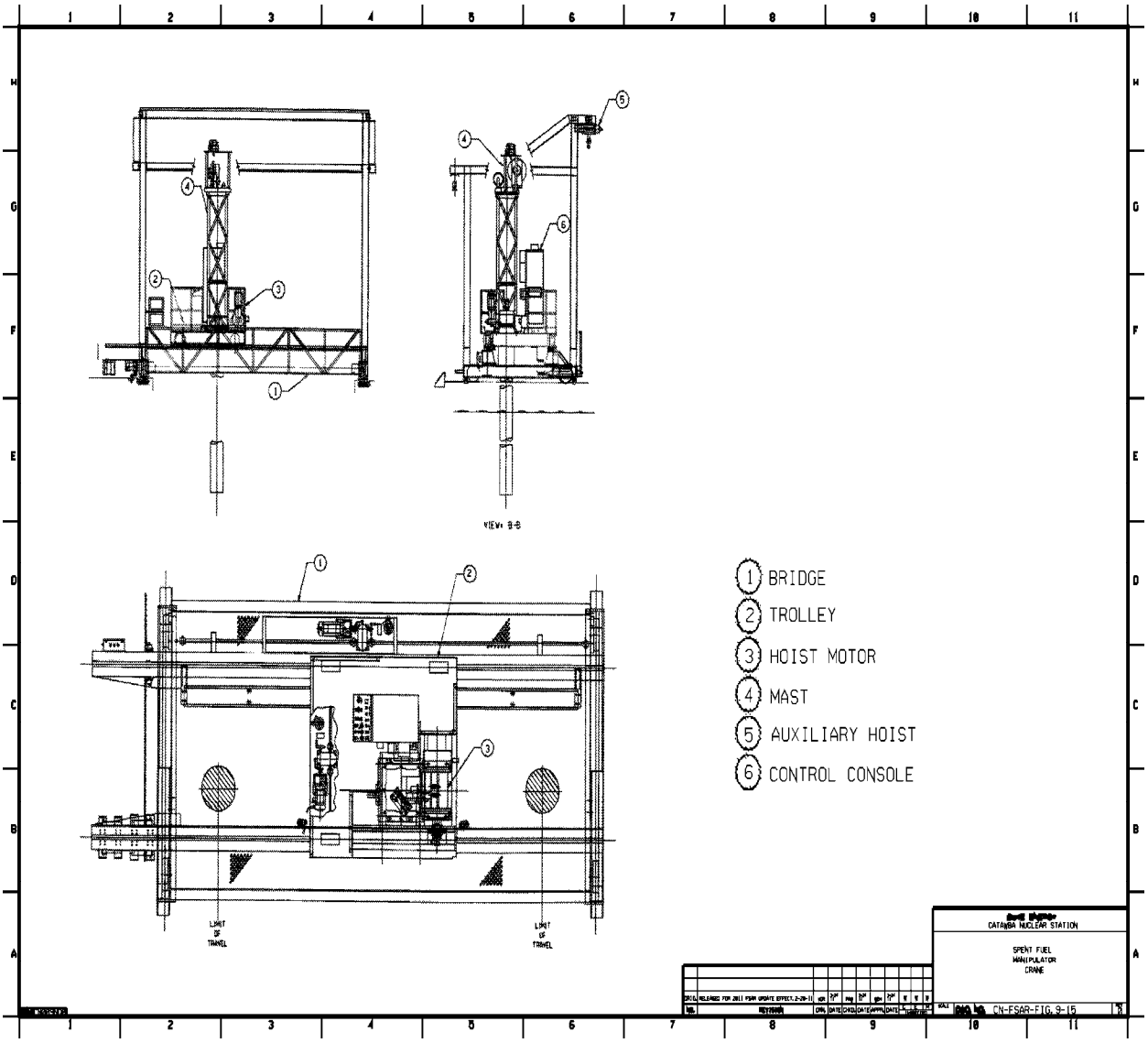

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Figure 9-16. New Fuel Elevator

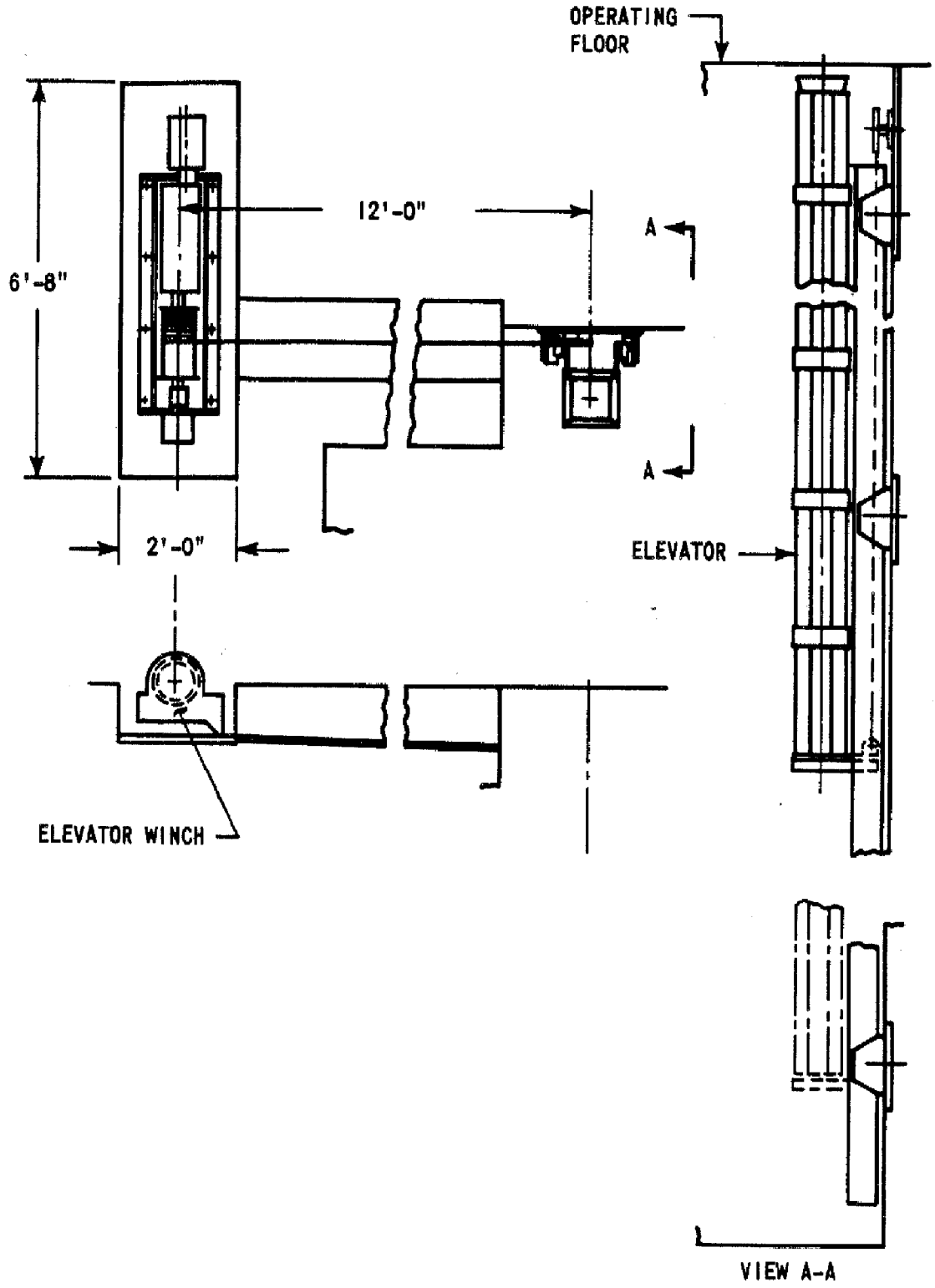

Figure 9-17. Fuel Transfer System

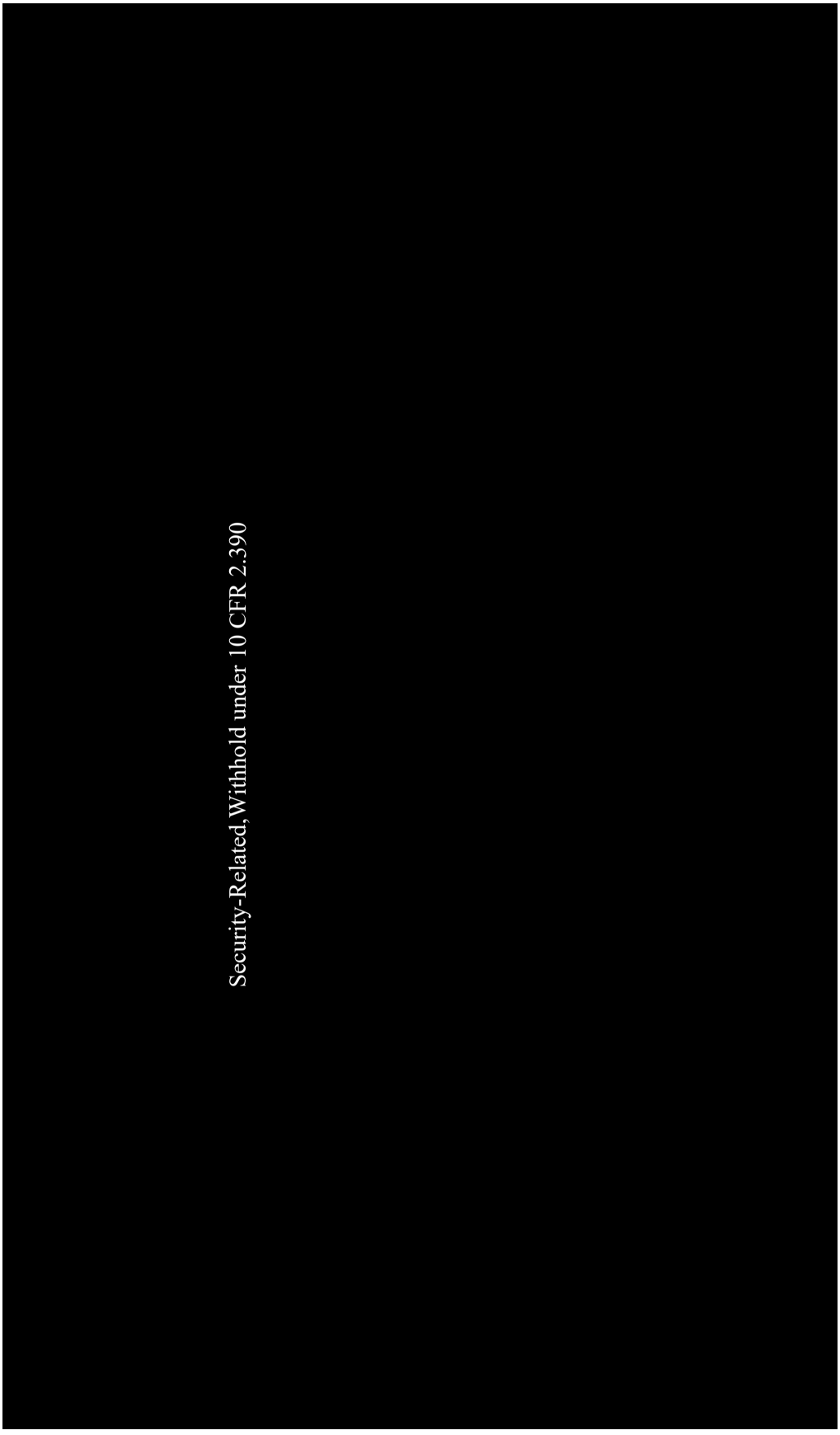

Figure 9-18. Deleted Per 1997 Update

Figure 9-19. Reactor Vessel Head Lifting Device

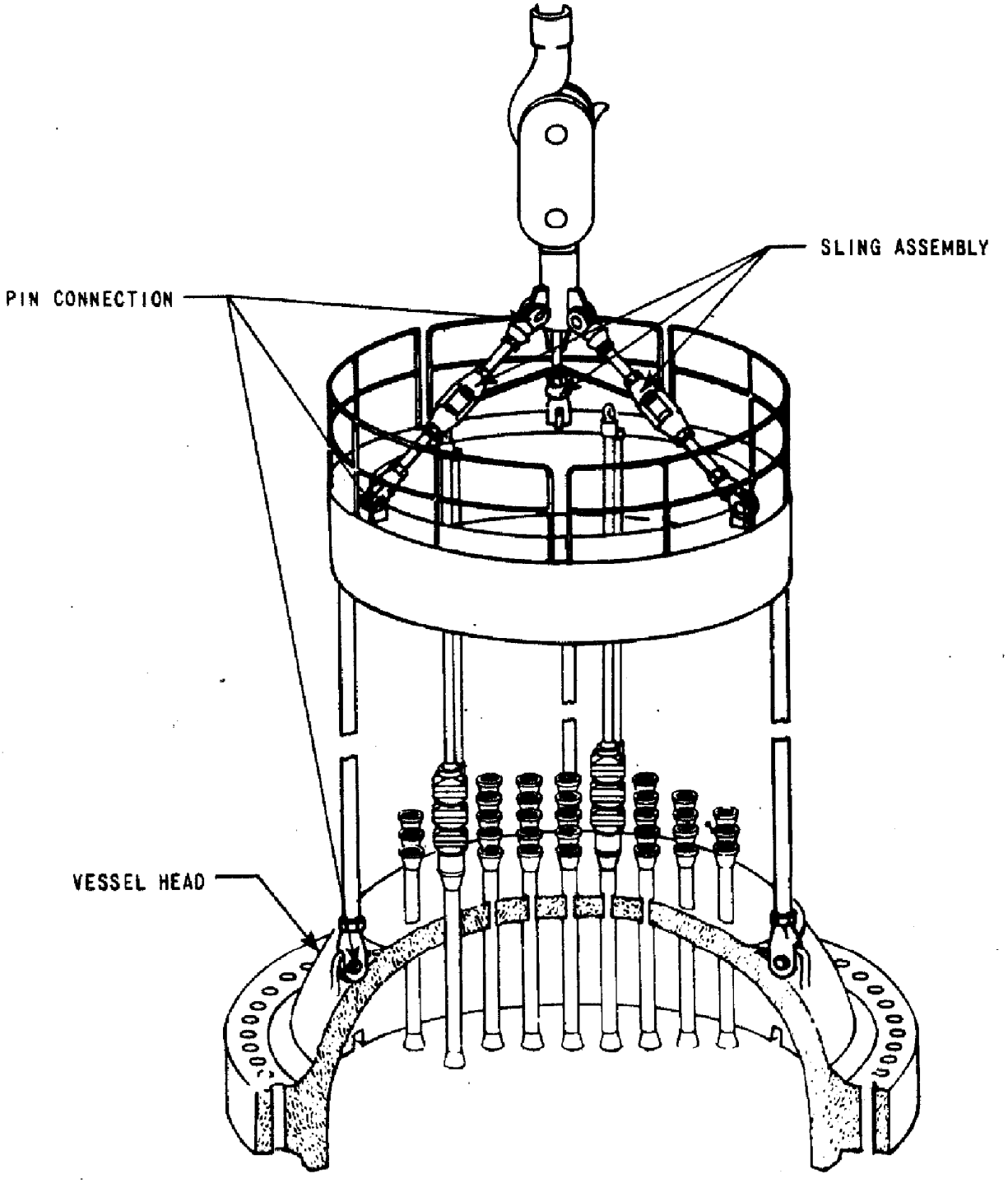

Figure 9-20. Reactor Internals Lifting Device

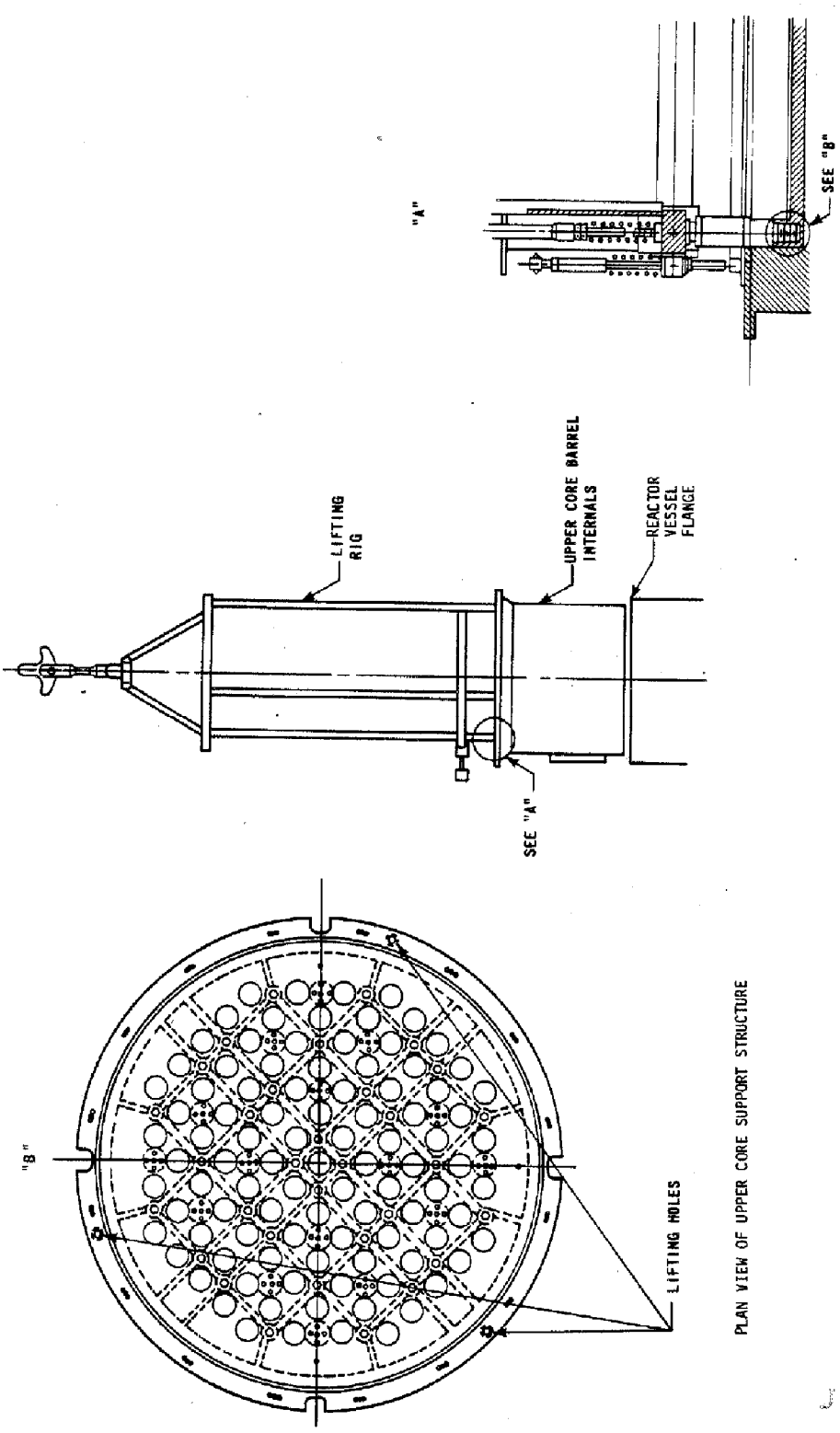

Figure 9-21. Reactor Vessel Stud Tensioner

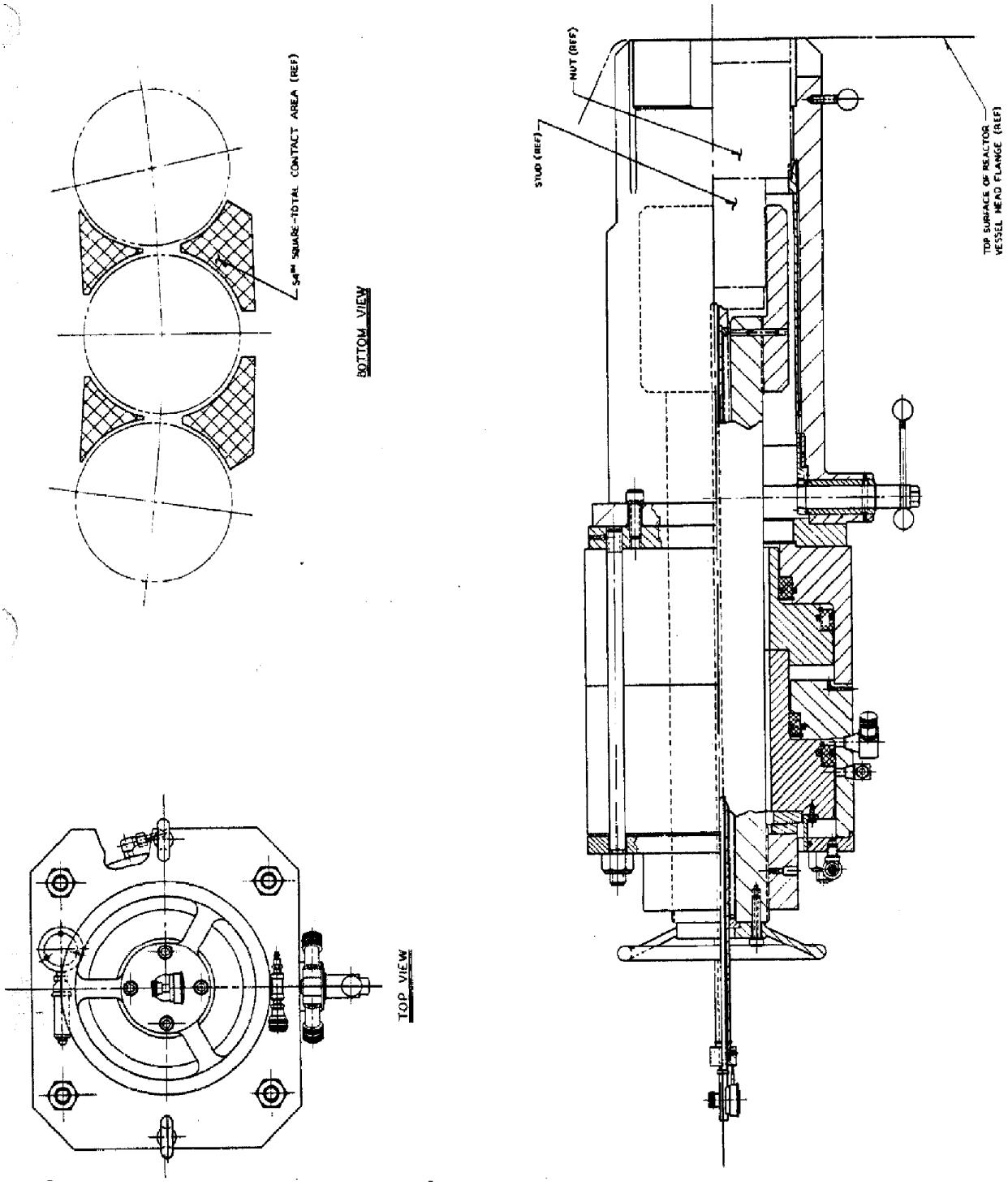

Figure 9-22. Flow Diagram of Nuclear Service Water System

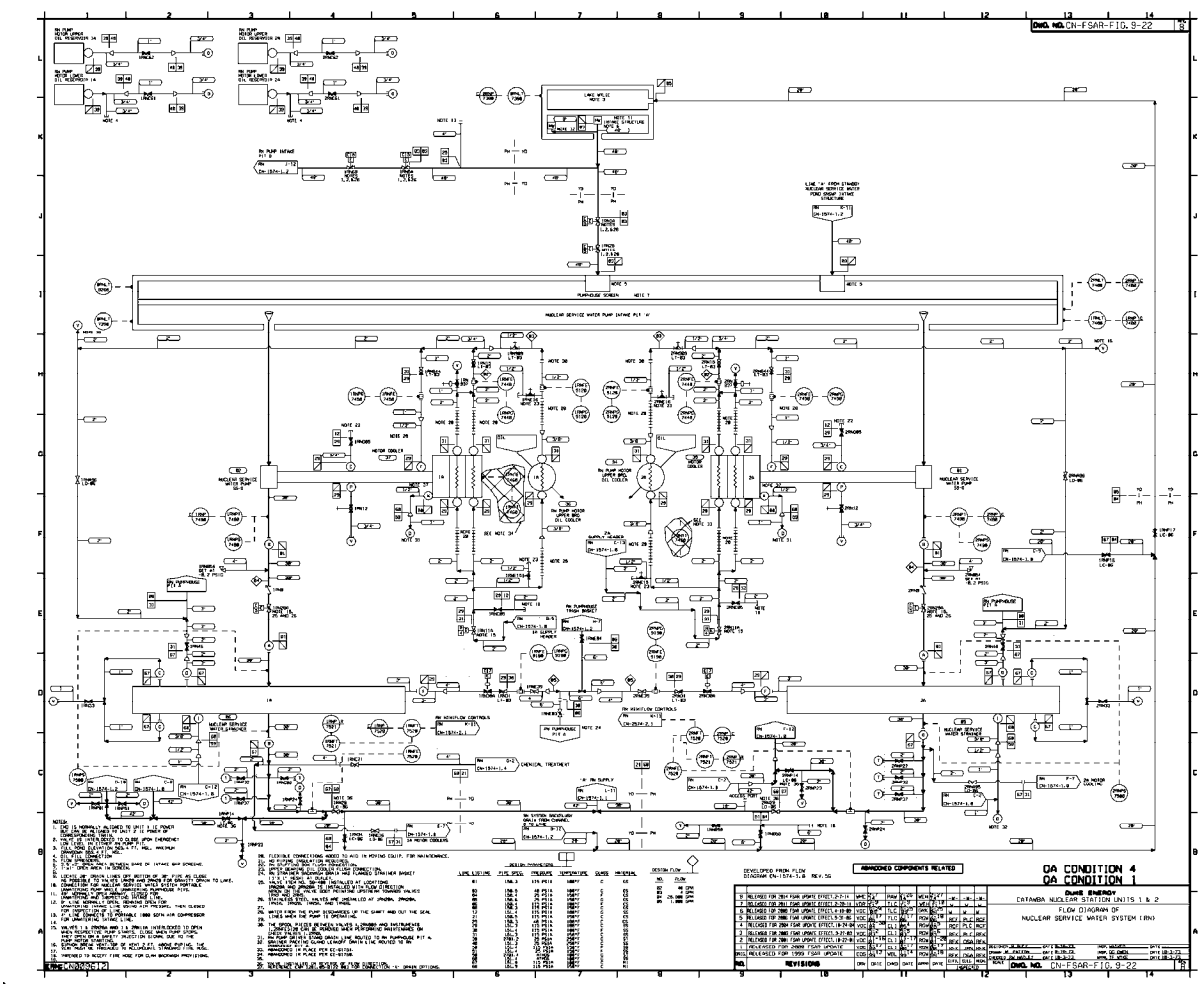

Figure 9-23. Flow Diagram of Nuclear Service Water System

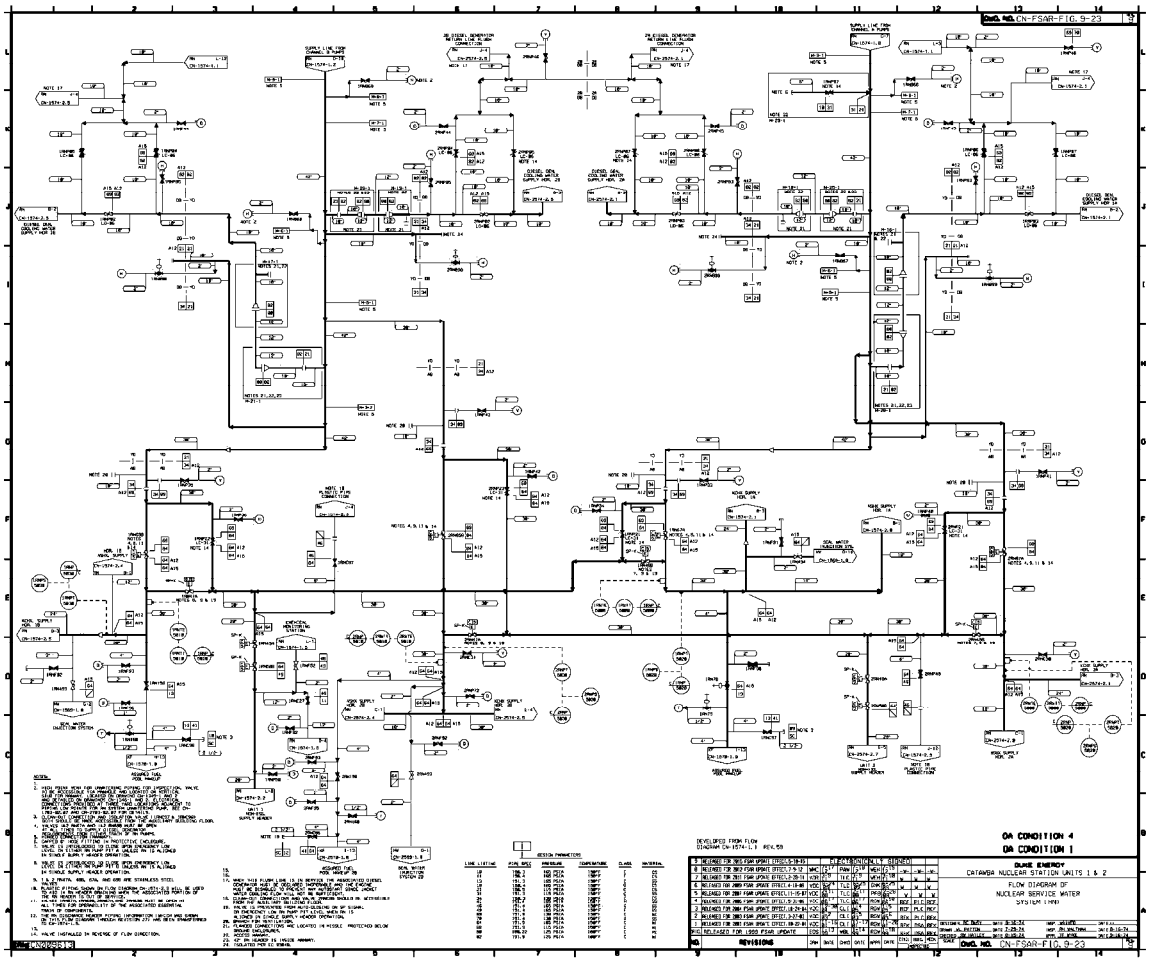

Figure 9-24. Flow Diagram of Nuclear Service Water System

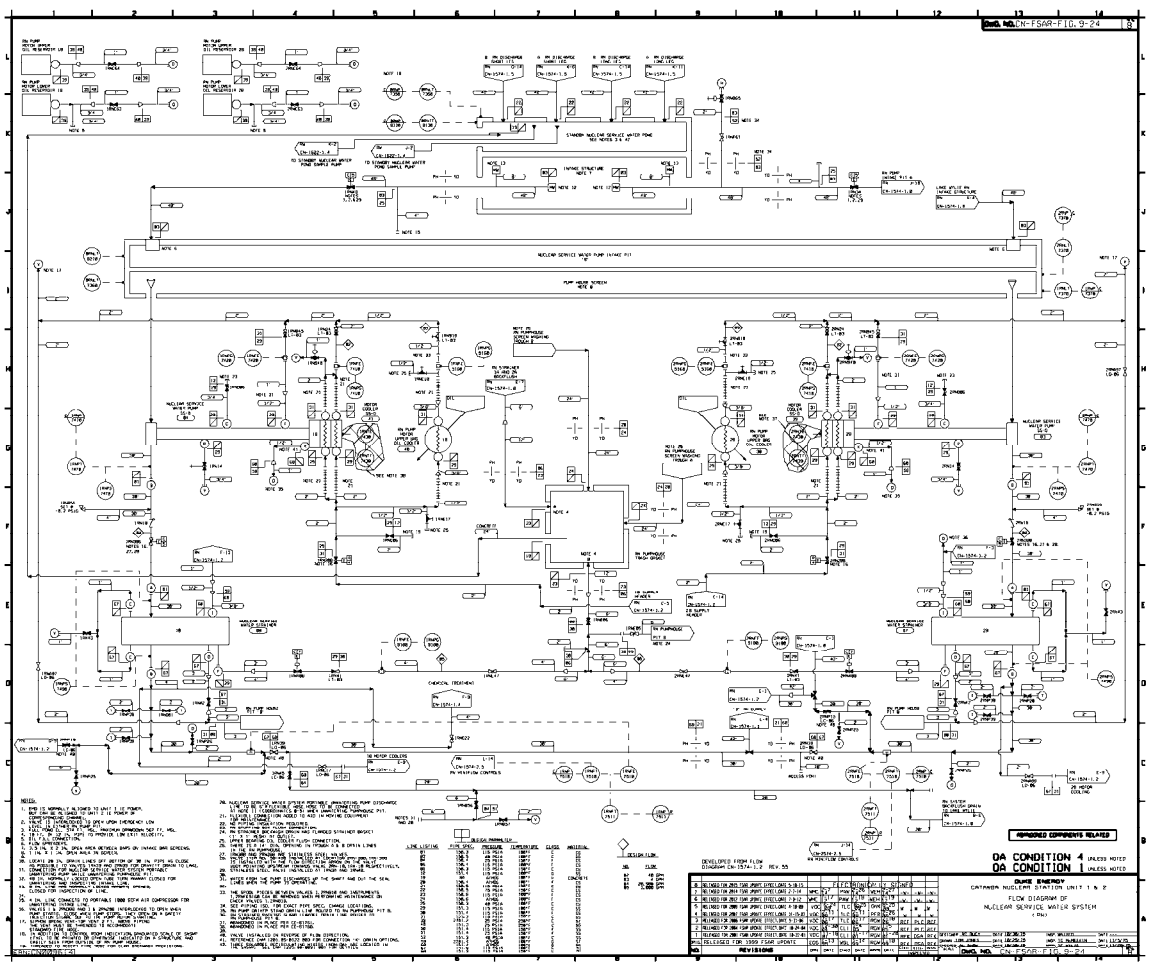

Figure 9-25. Flow Diagram of Nuclear Service Water System

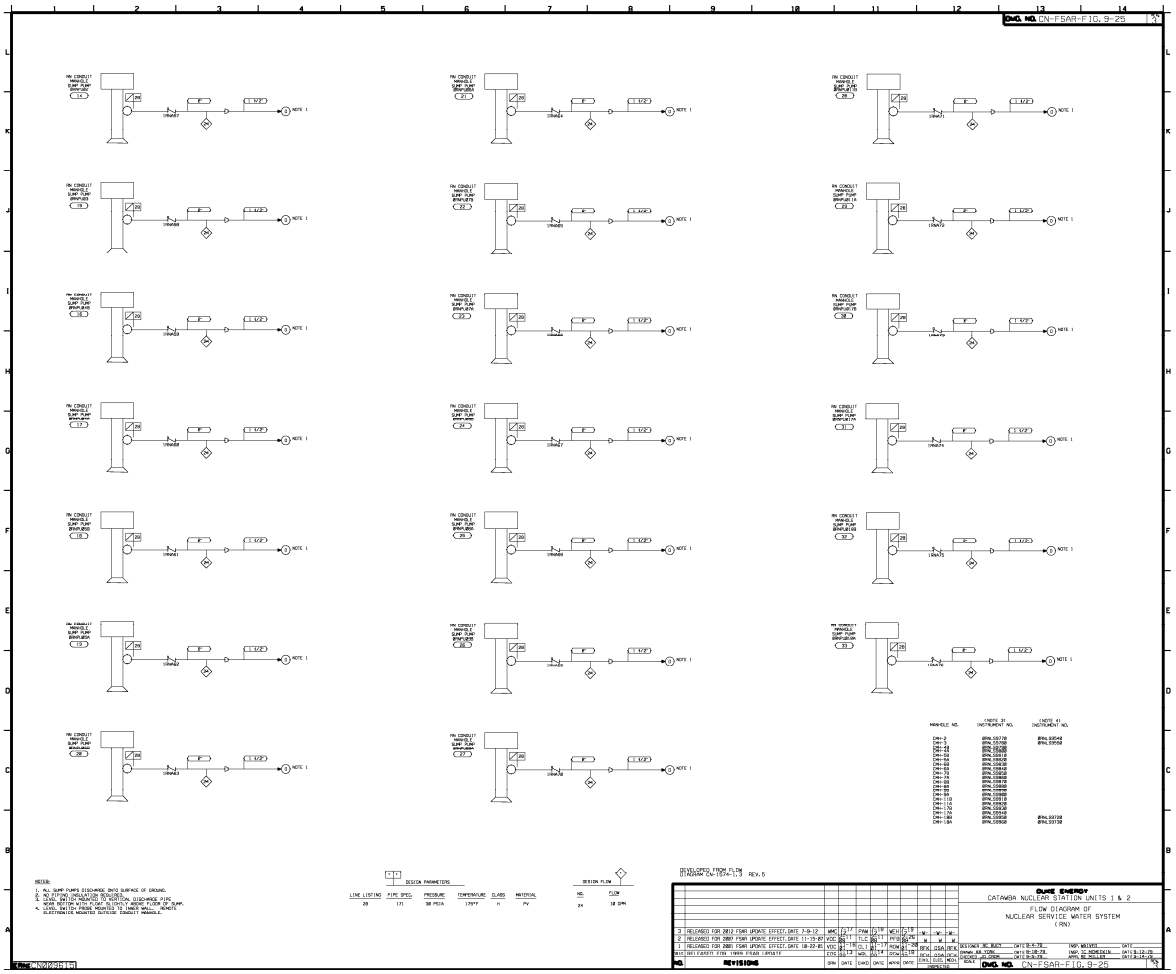

Figure 9-26. Flow Diagram of Nuclear Service Water System

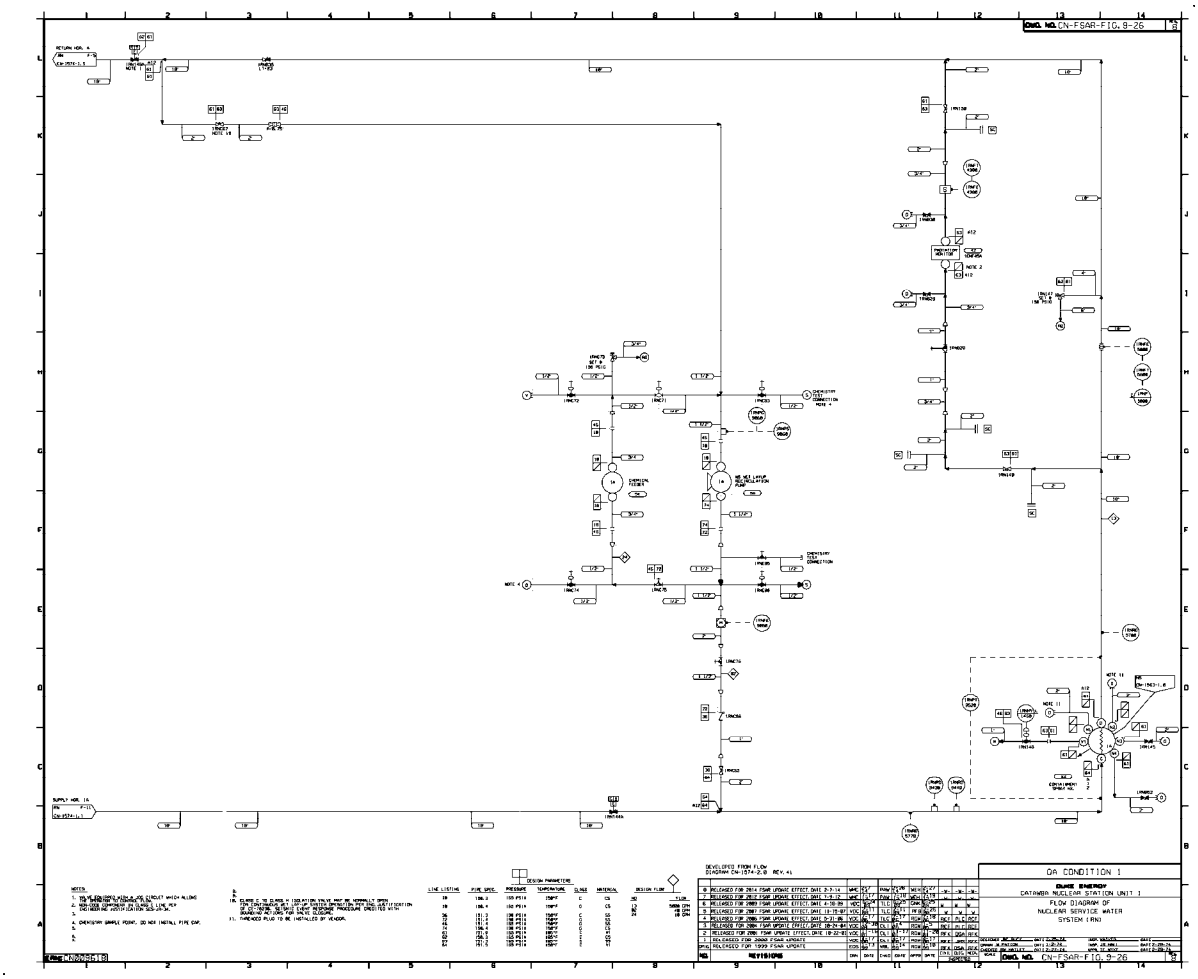

Figure 9-27. Flow Diagram of Nuclear Service Water System

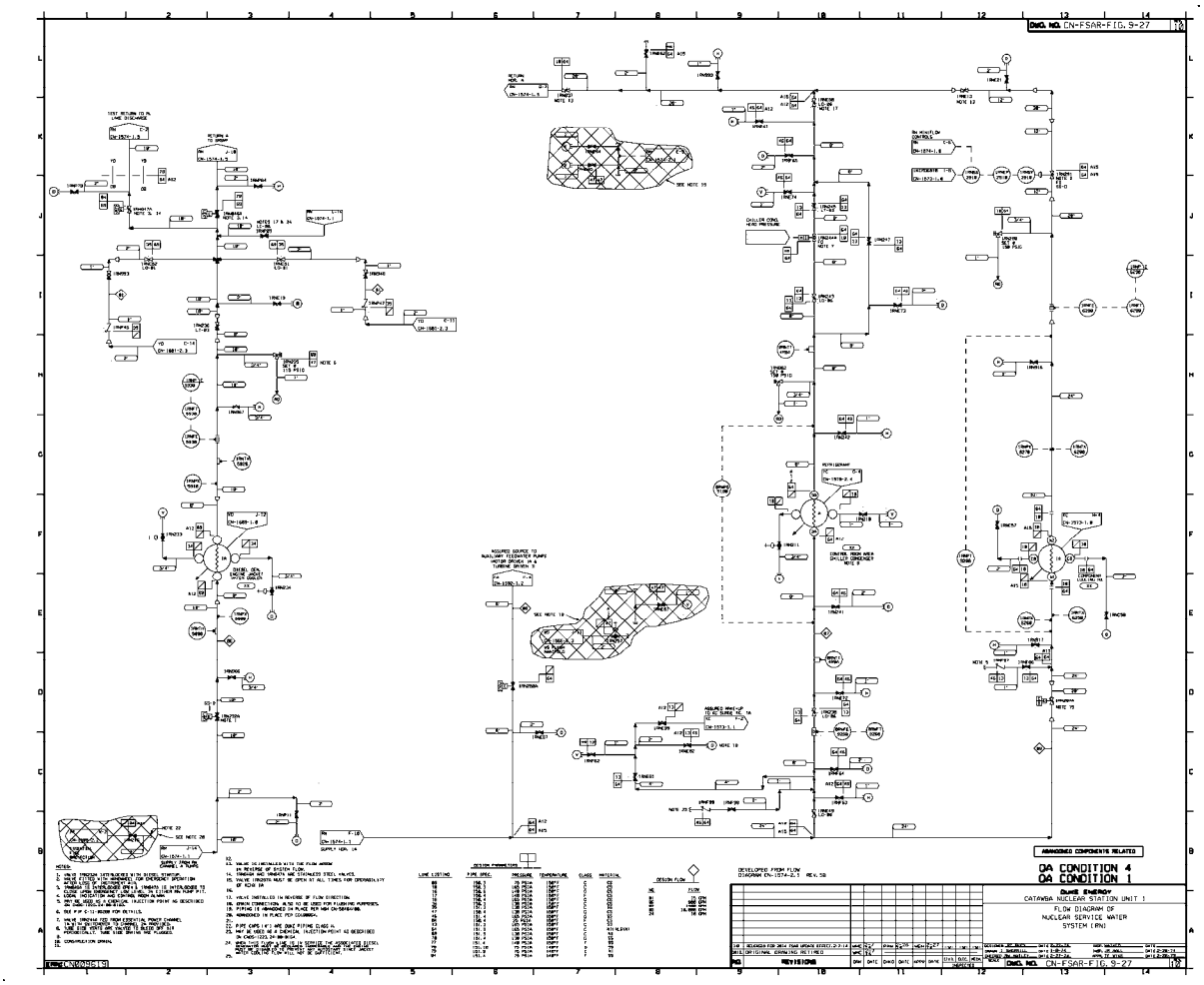

Figure 9-28. Flow Diagram of Nuclear Service Water System

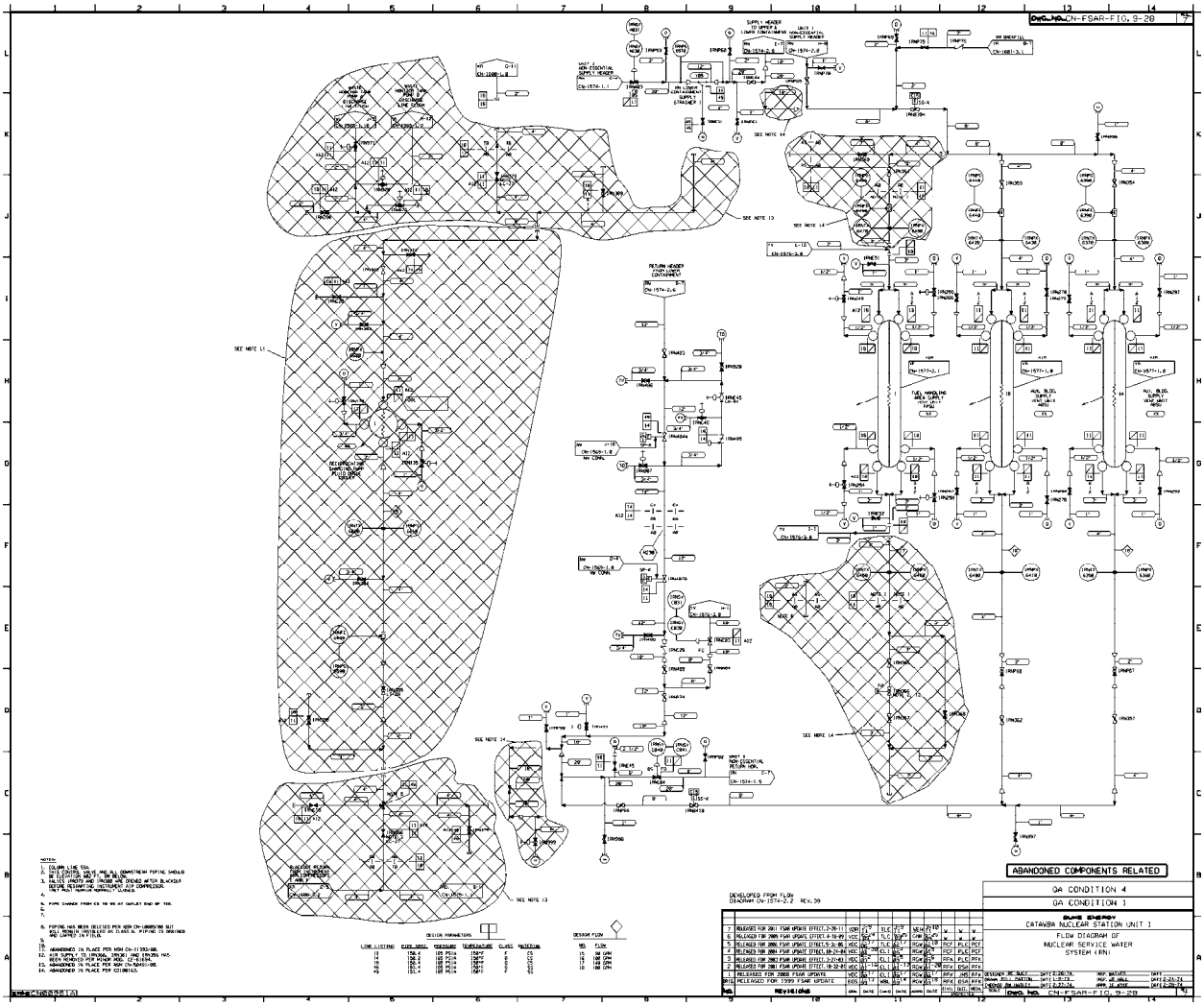

Figure 9-29. Flow Diagram of Nuclear Service Water System

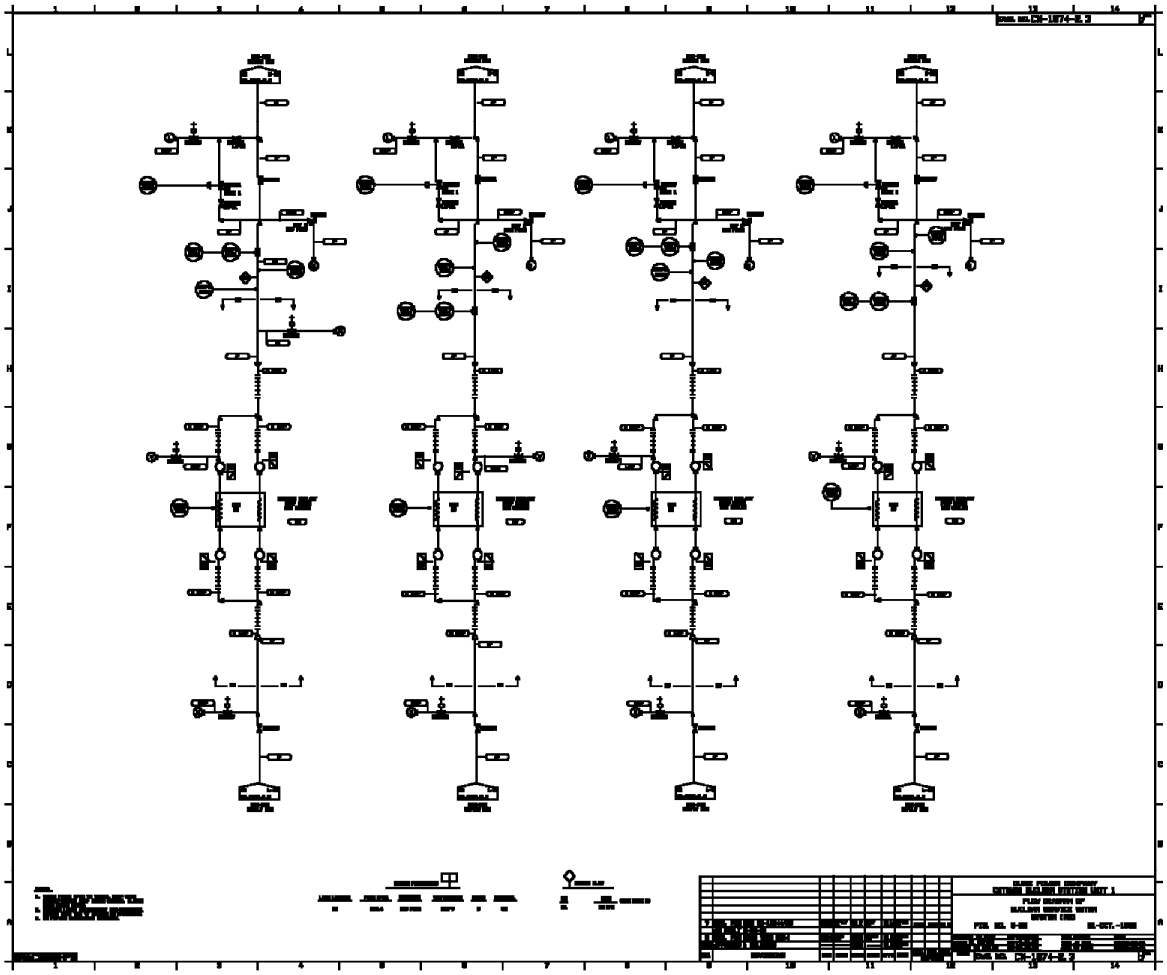

Figure 9-30. Flow Diagram of Nuclear Service Water System

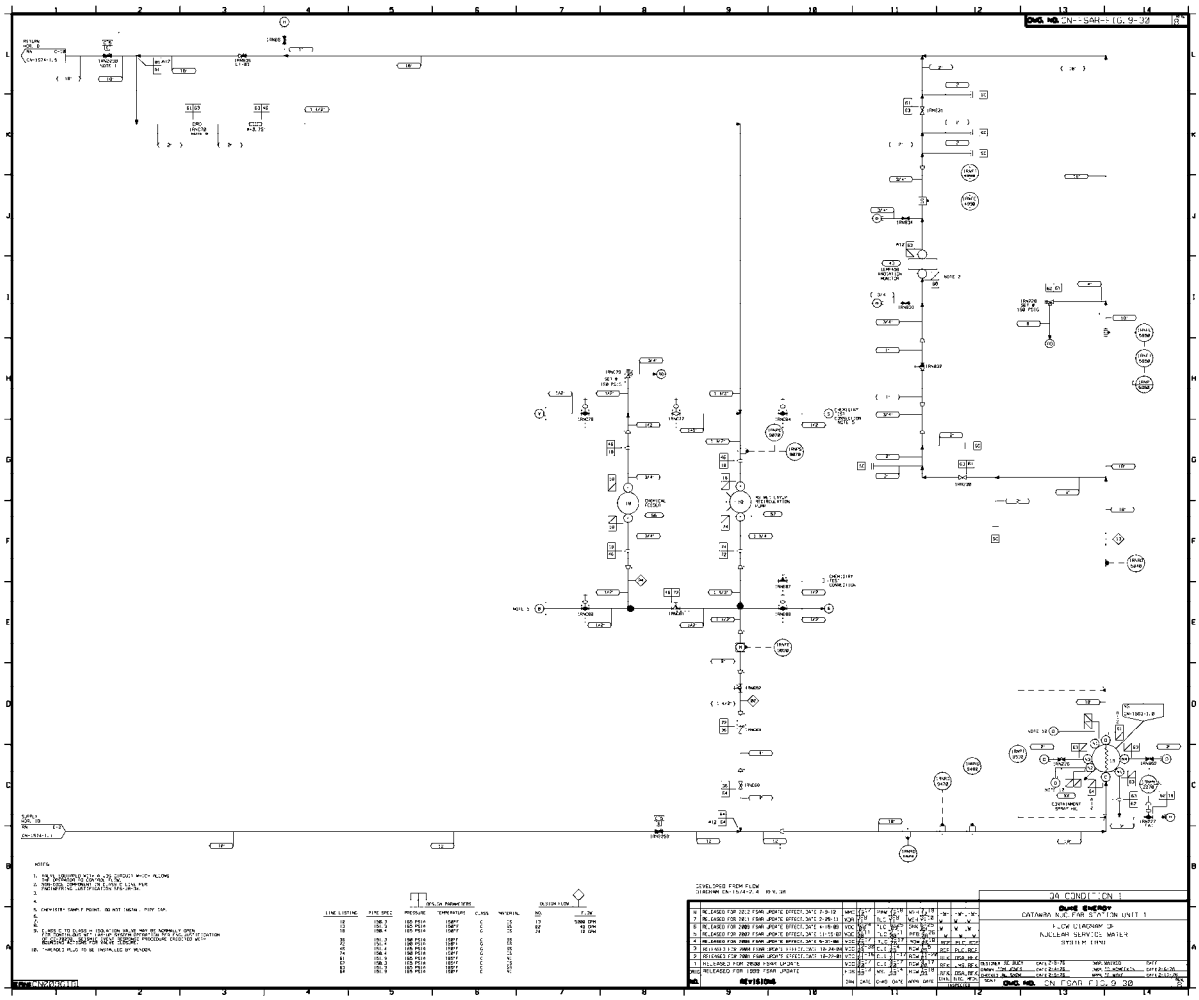

Figure 9-31. Flow Diagram of Nuclear Service Water System

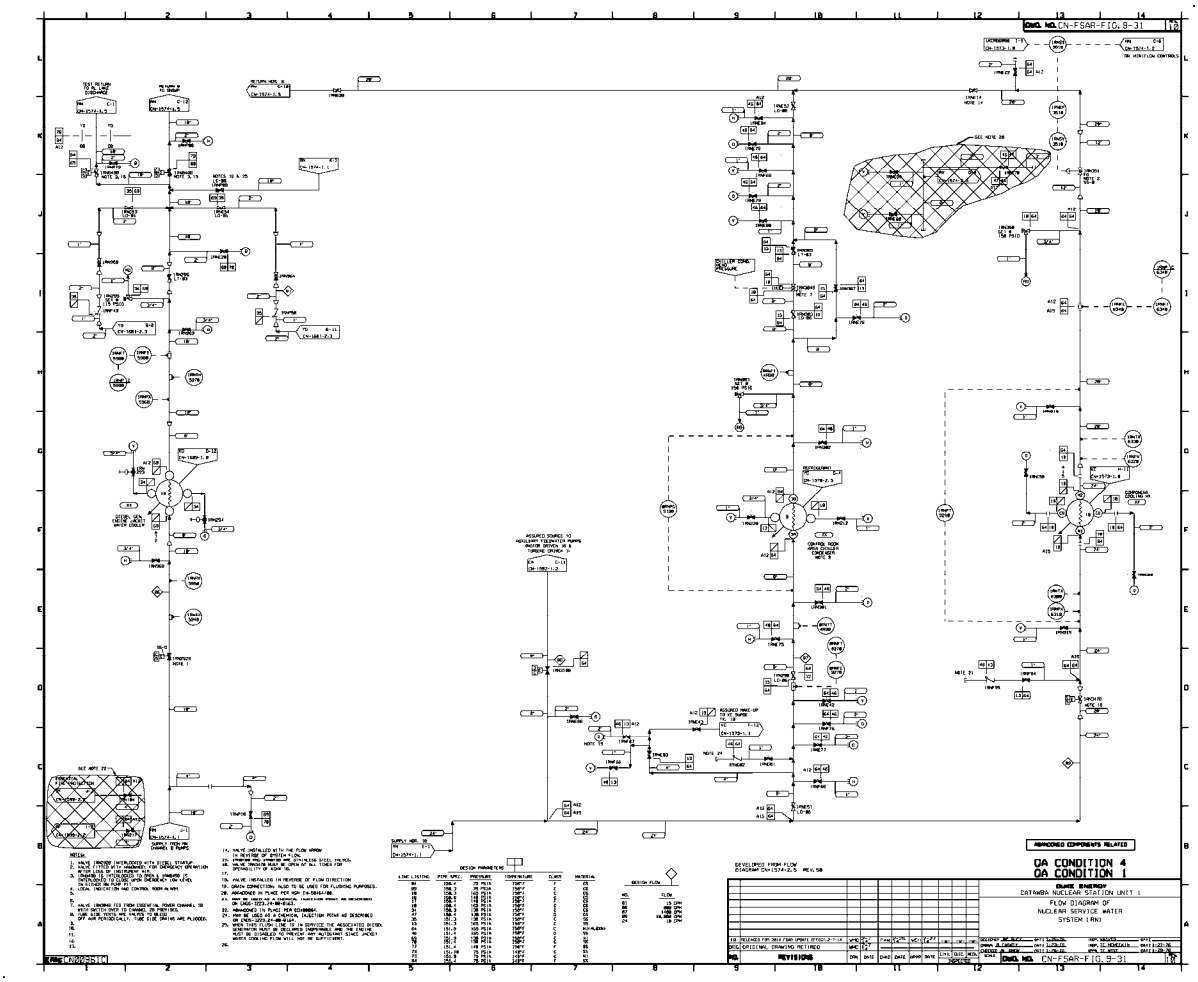

Figure 9-32. Flow Diagram of Nuclear Service Water System

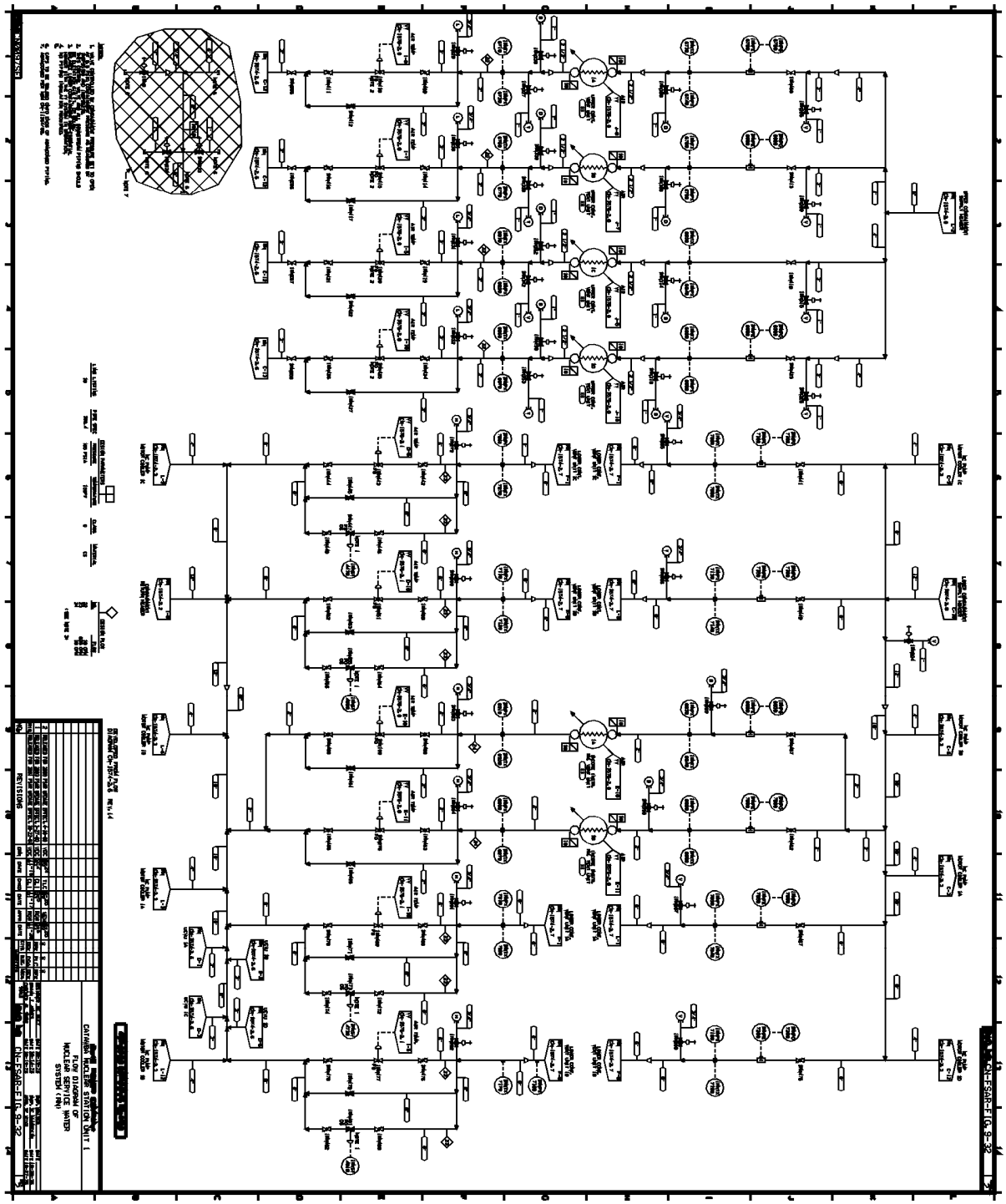

Figure 9-33. Flow Diagram of Nuclear Service Water System

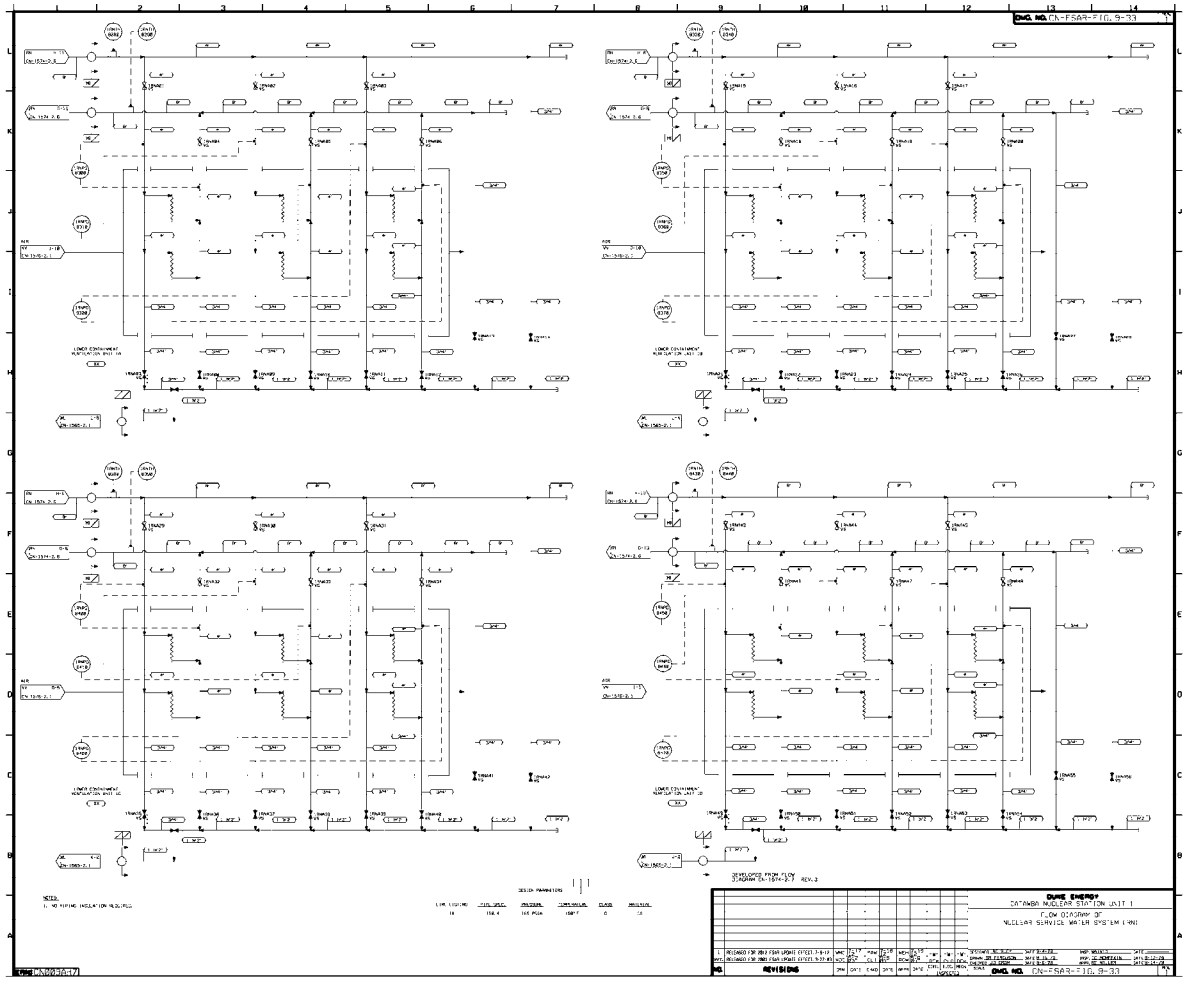

Figure 9-34. Nuclear Service Water System Yard Layout

Figure 9-35. Flow Diagram of Component Cooling System

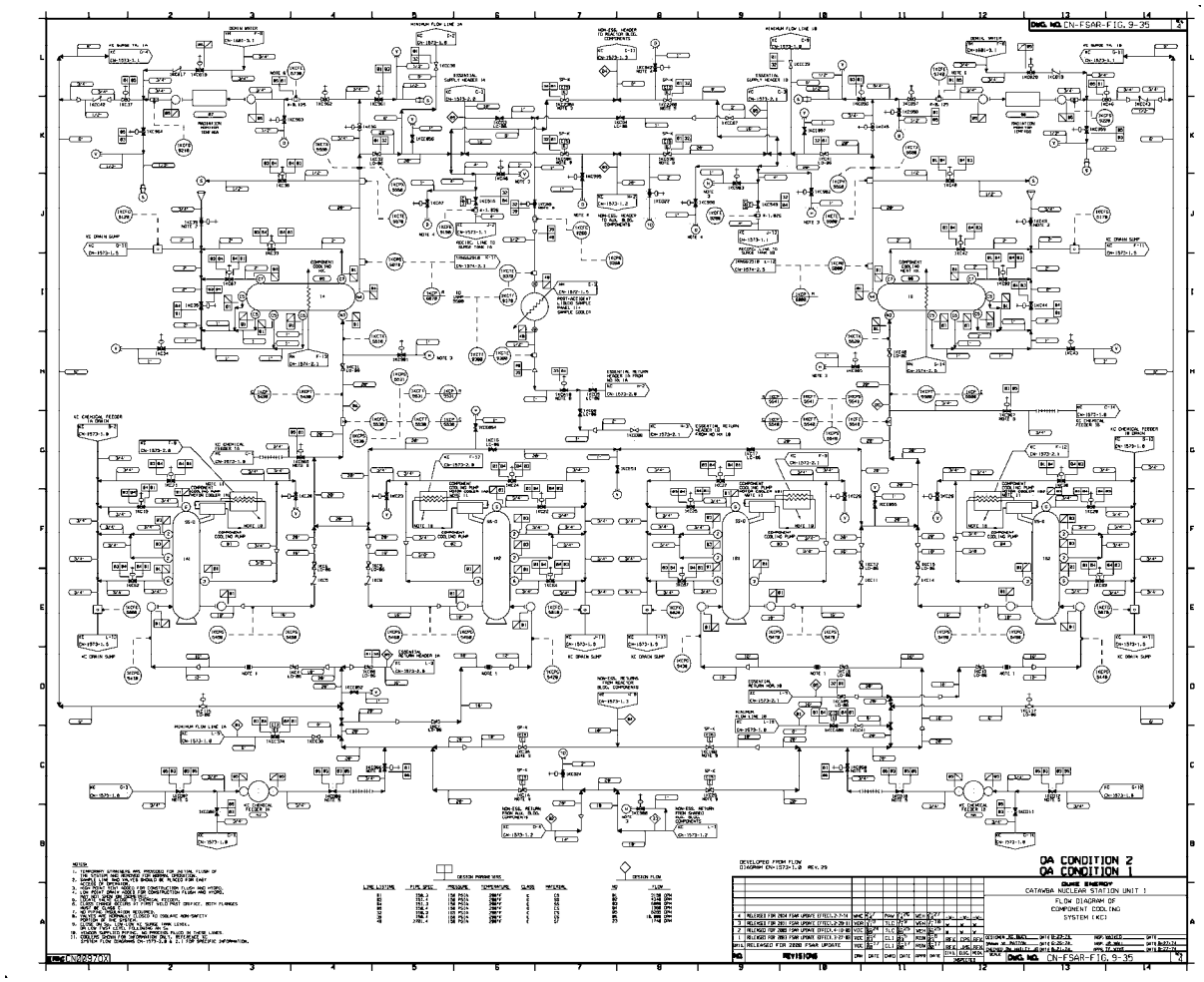

Figure 9-36. Flow Diagram of Component Cooling System

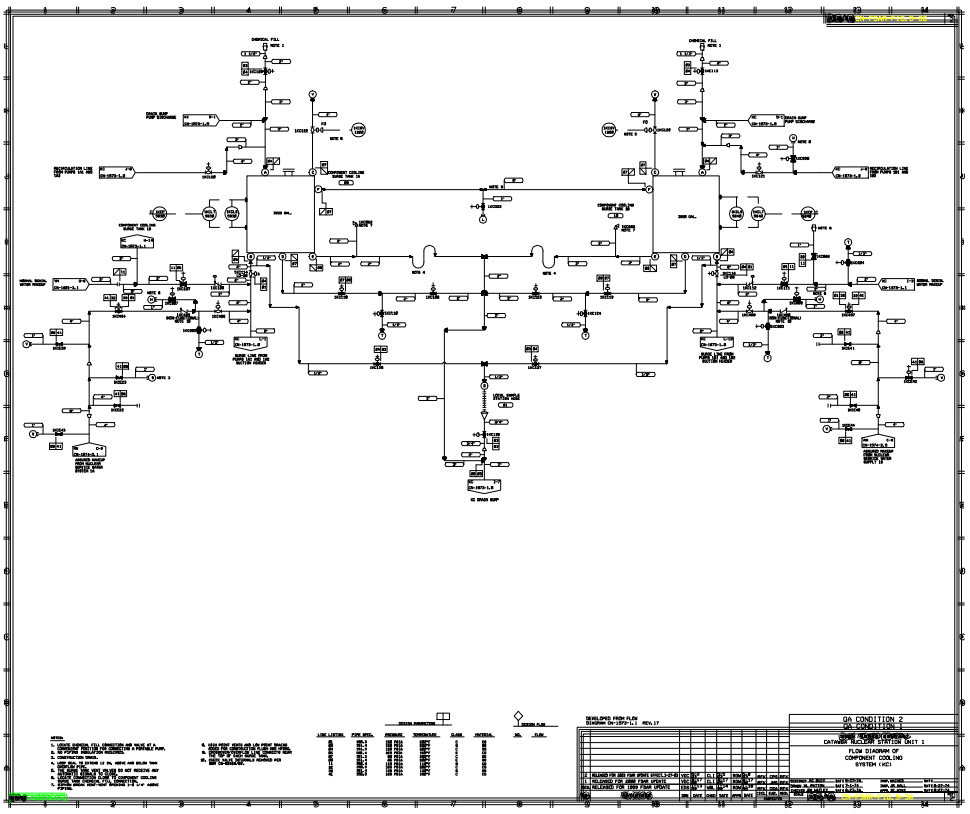

Figure 9-37. Flow Diagram of Component Cooling System

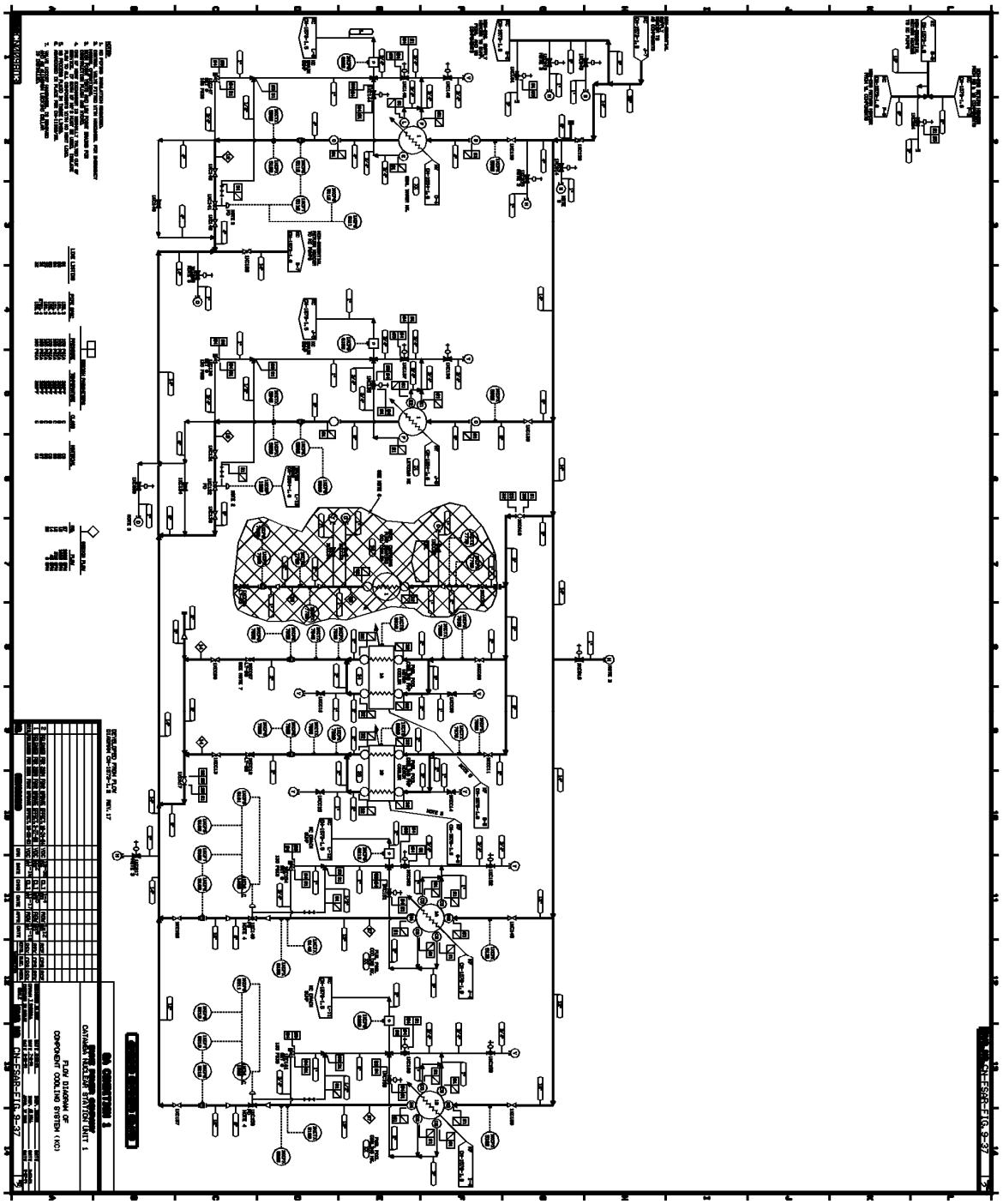

Figure 9-38. Flow Diagram of Component Cooling System

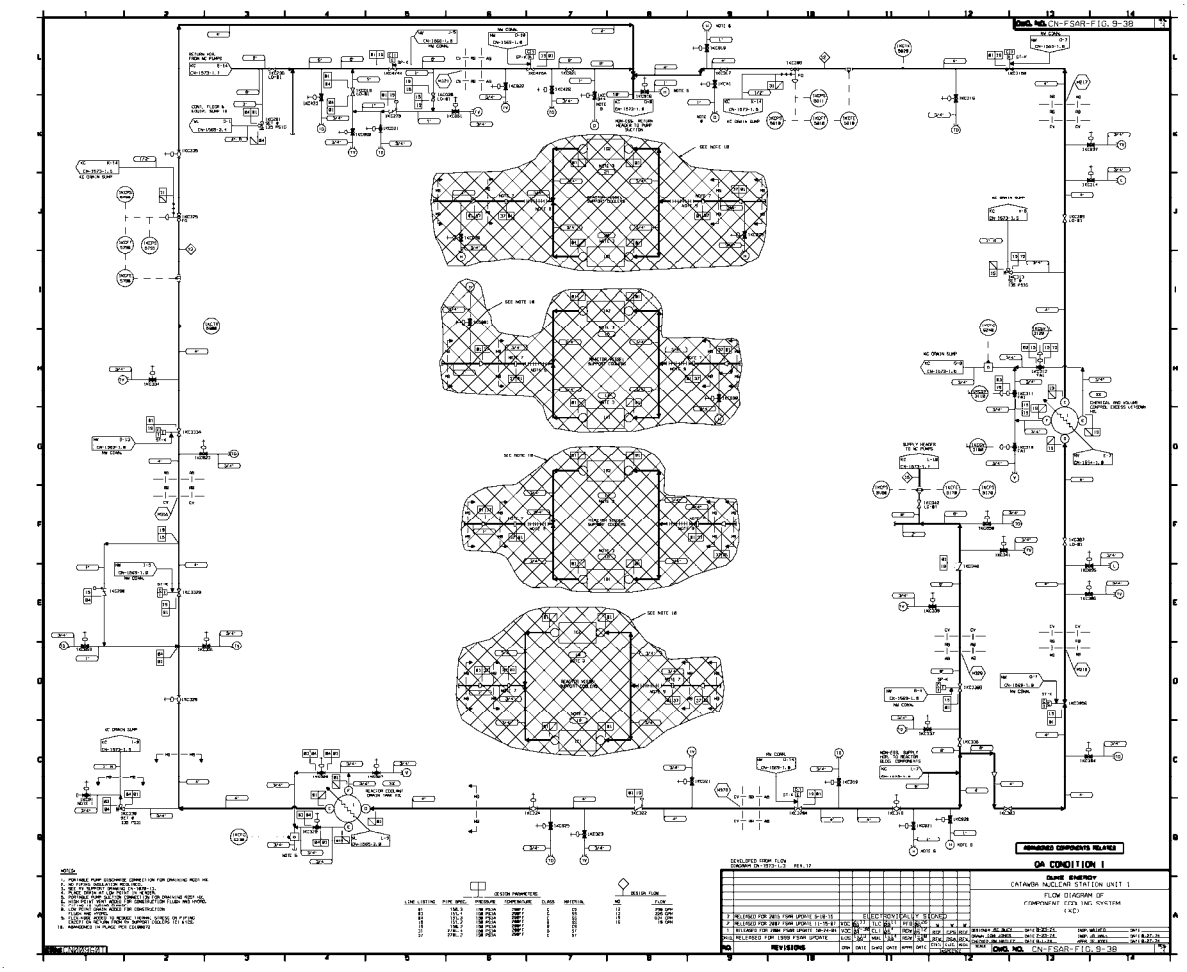

Figure 9-39. Flow Diagram of Component Cooling System

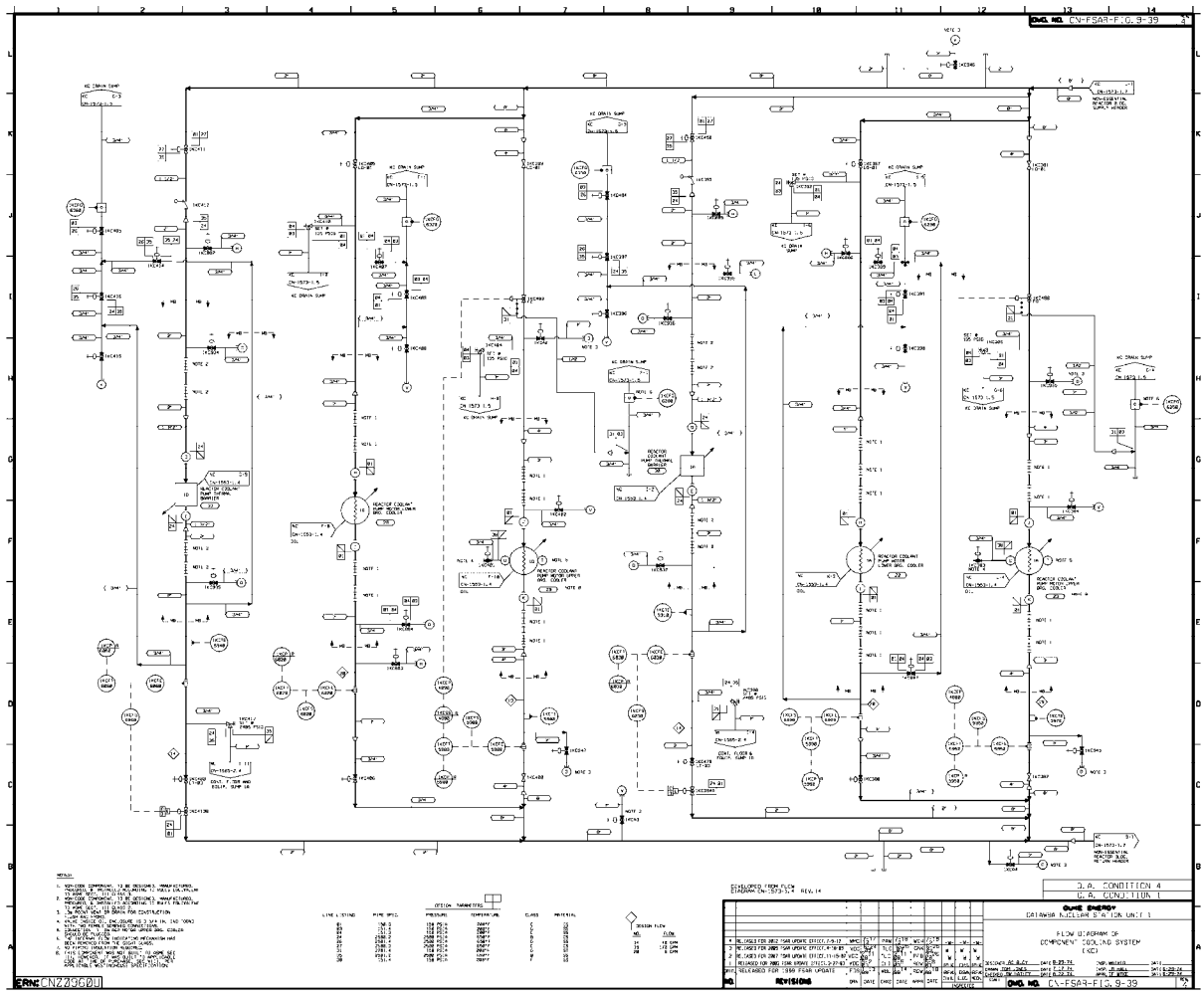

Figure 9-40. Flow Diagram of Component Cooling System

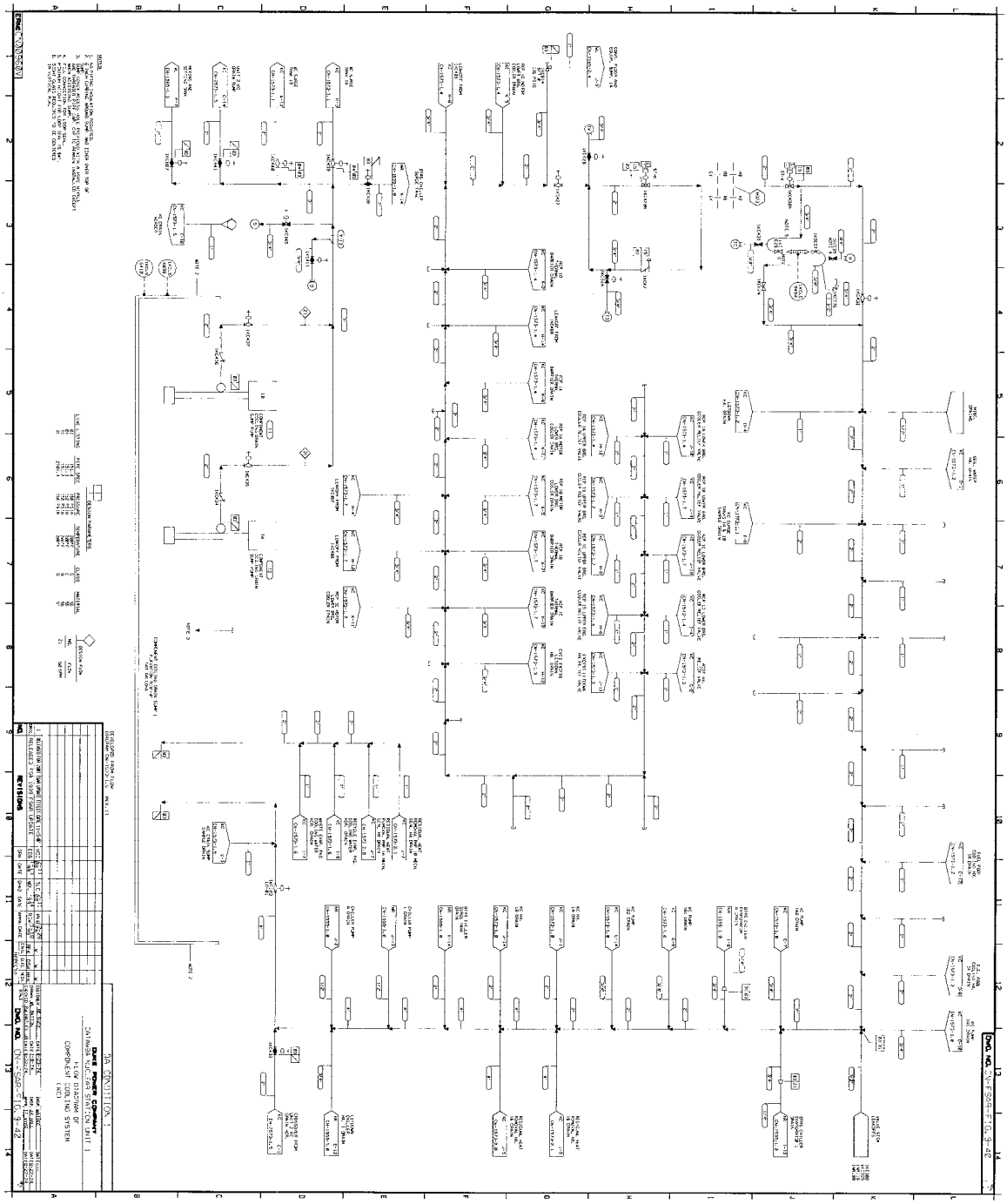

Figure 9-41. Flow Diagram of Component Cooling System

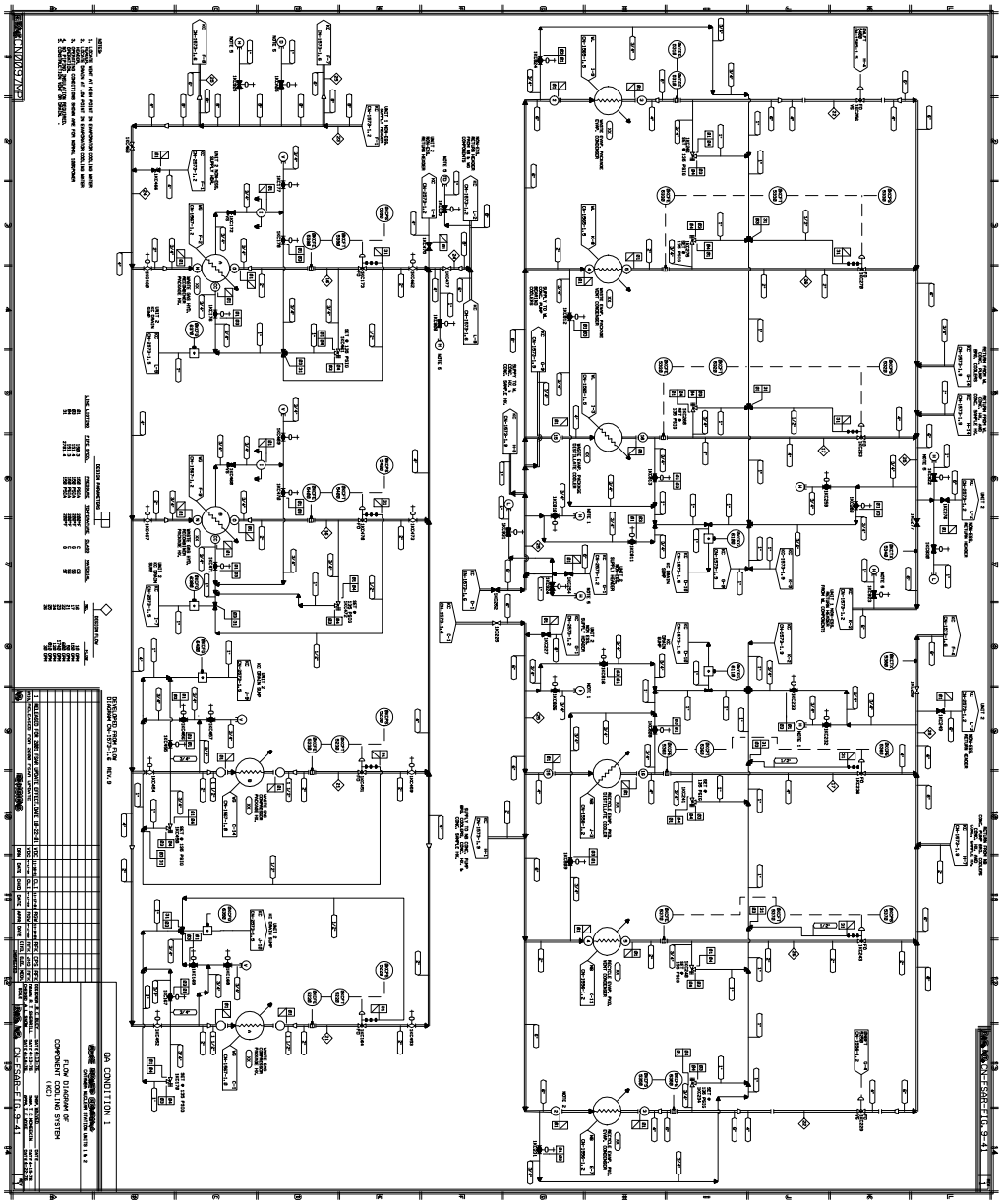

Figure 9-42. Flow Diagram of Component Cooling System

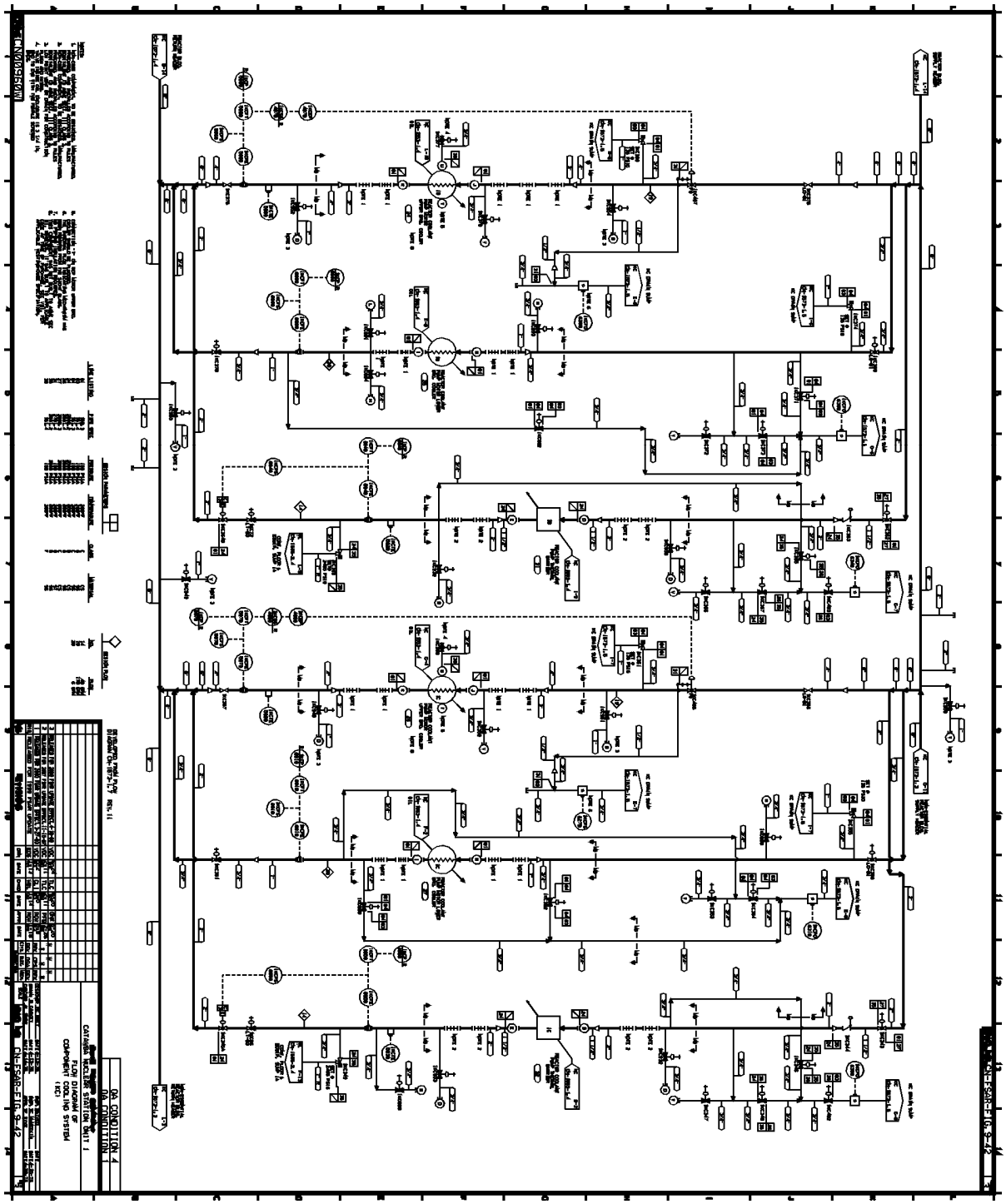

Figure 9-43. Flow Diagram of Component Cooling System

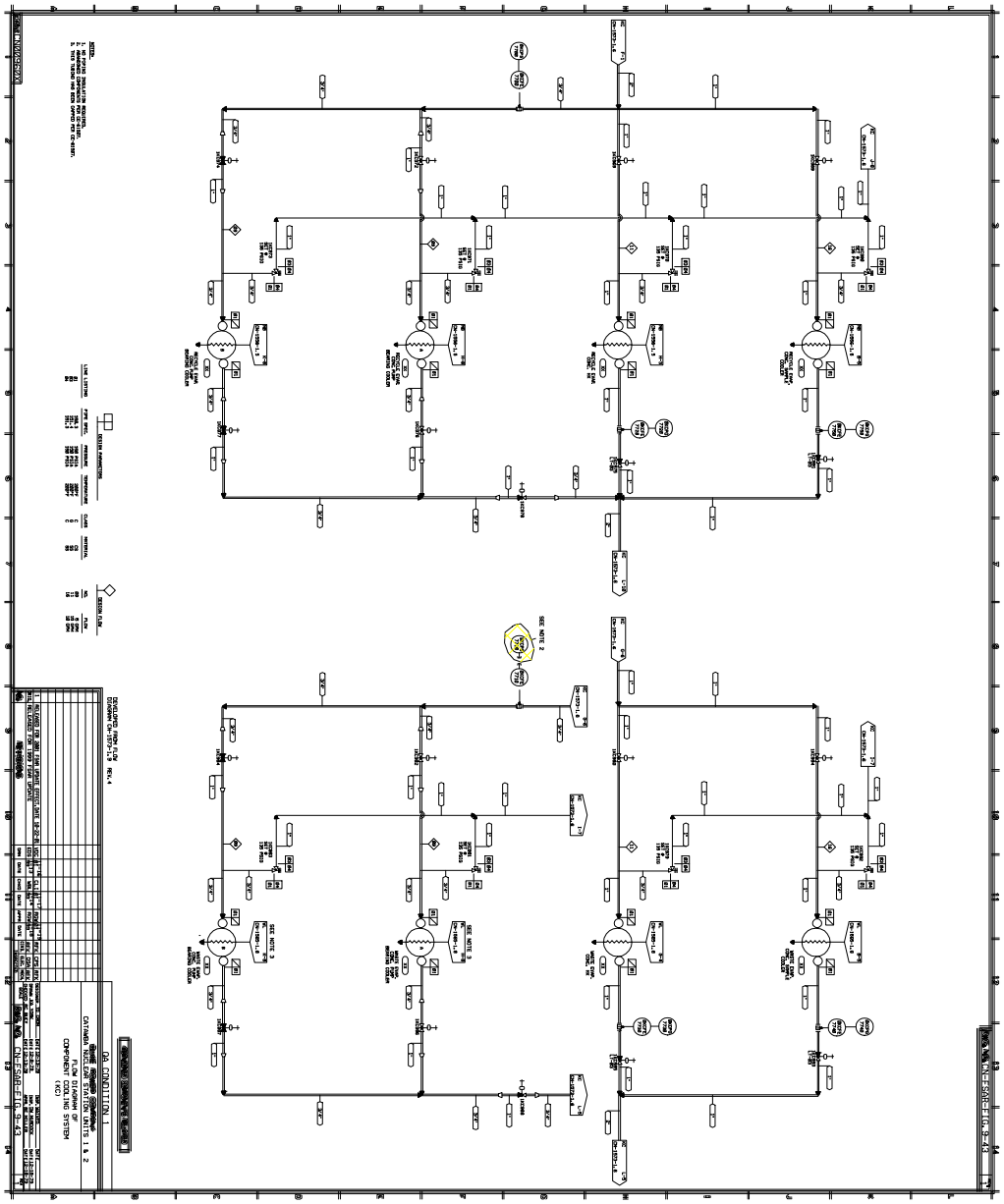

Figure 9-44. Flow Diagram of Makeup Demineralized Water System

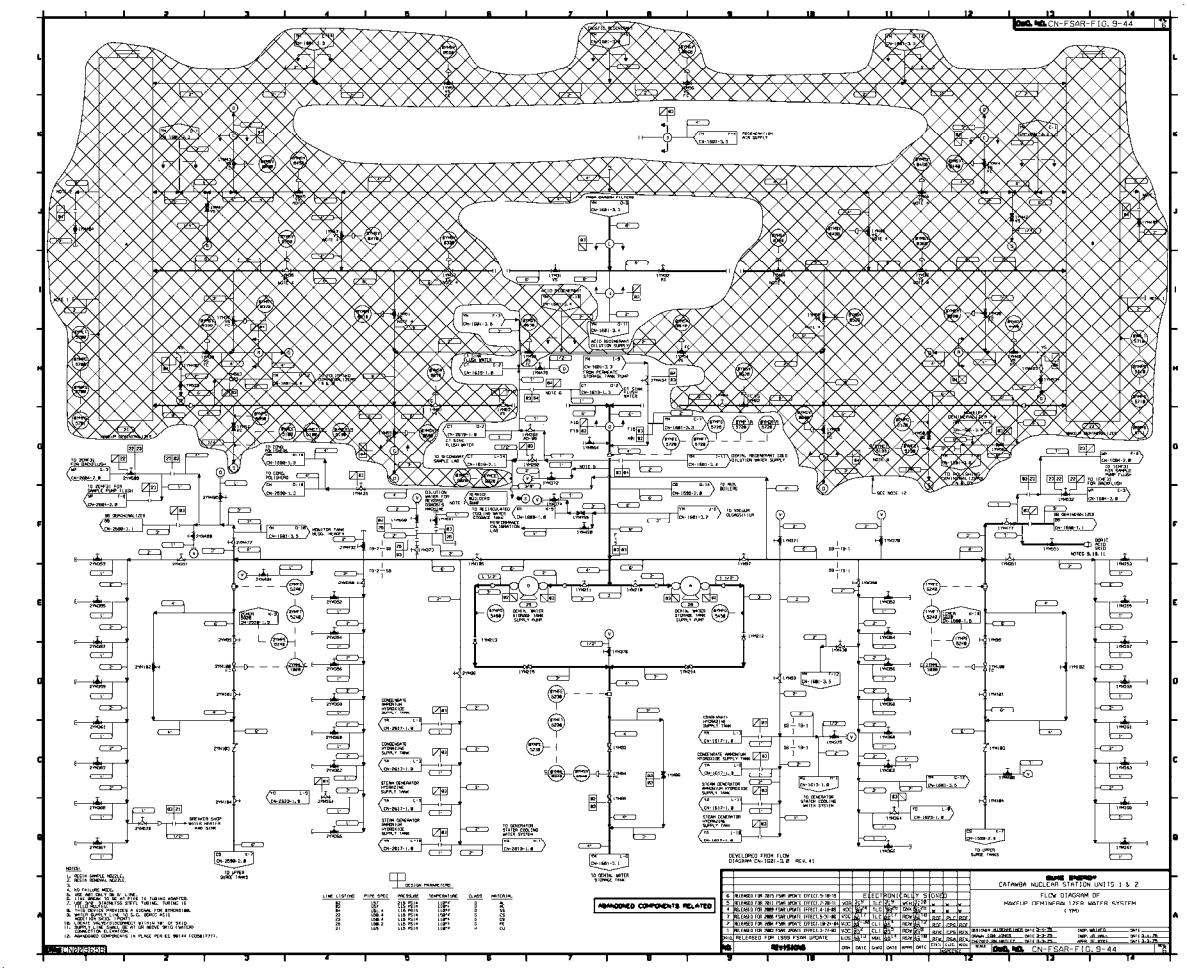

Figure 9-45. Flow Diagram of Makeup Demineralized Water System

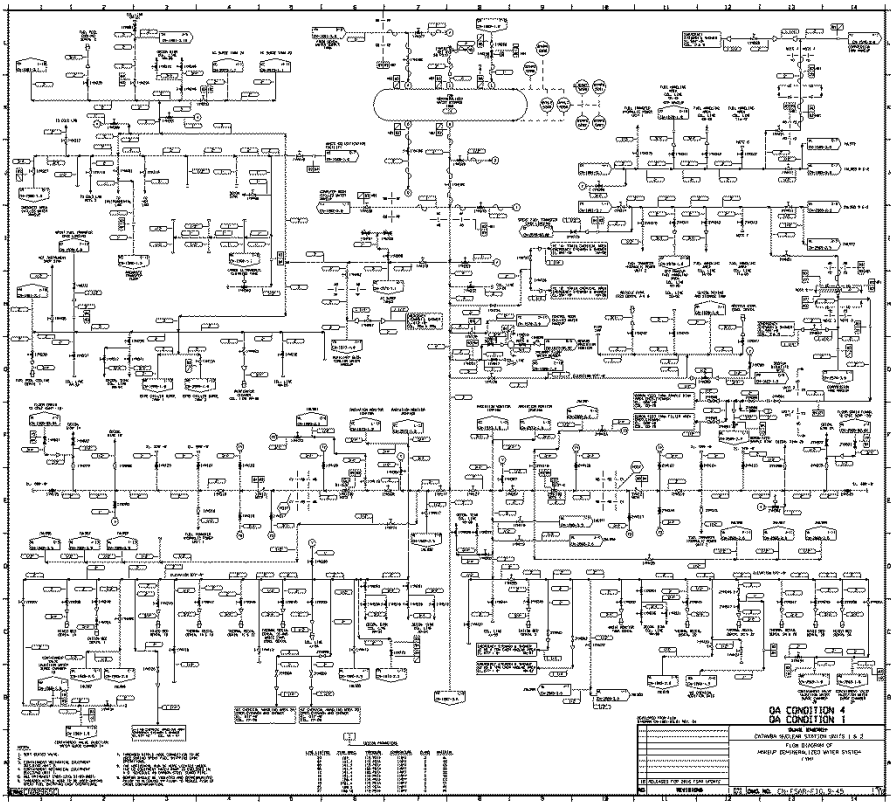

Figure 9-46. Flow Diagram of Makeup Demineralized Water System

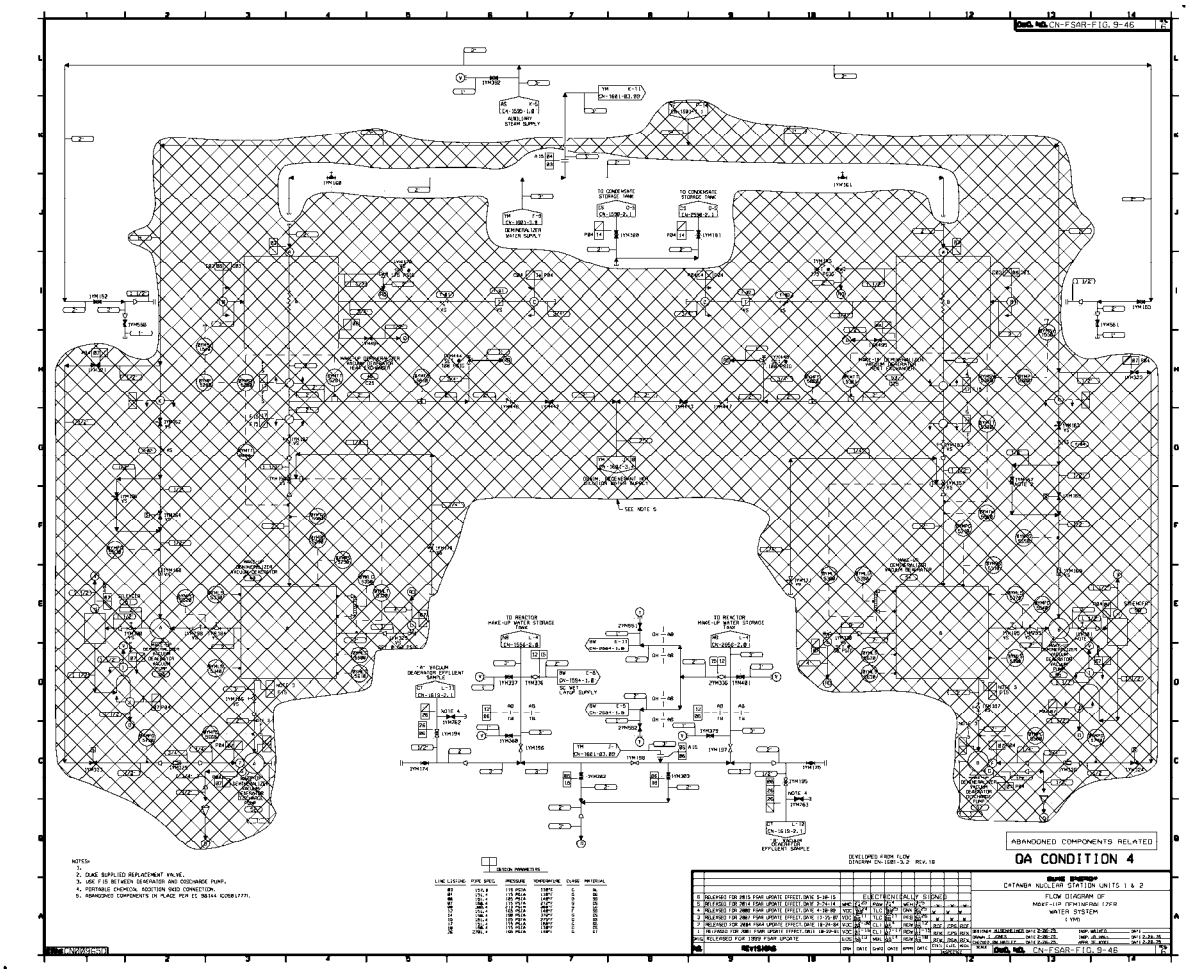

Figure 9-47. Flow Diagram of Makeup Demineralized Water System

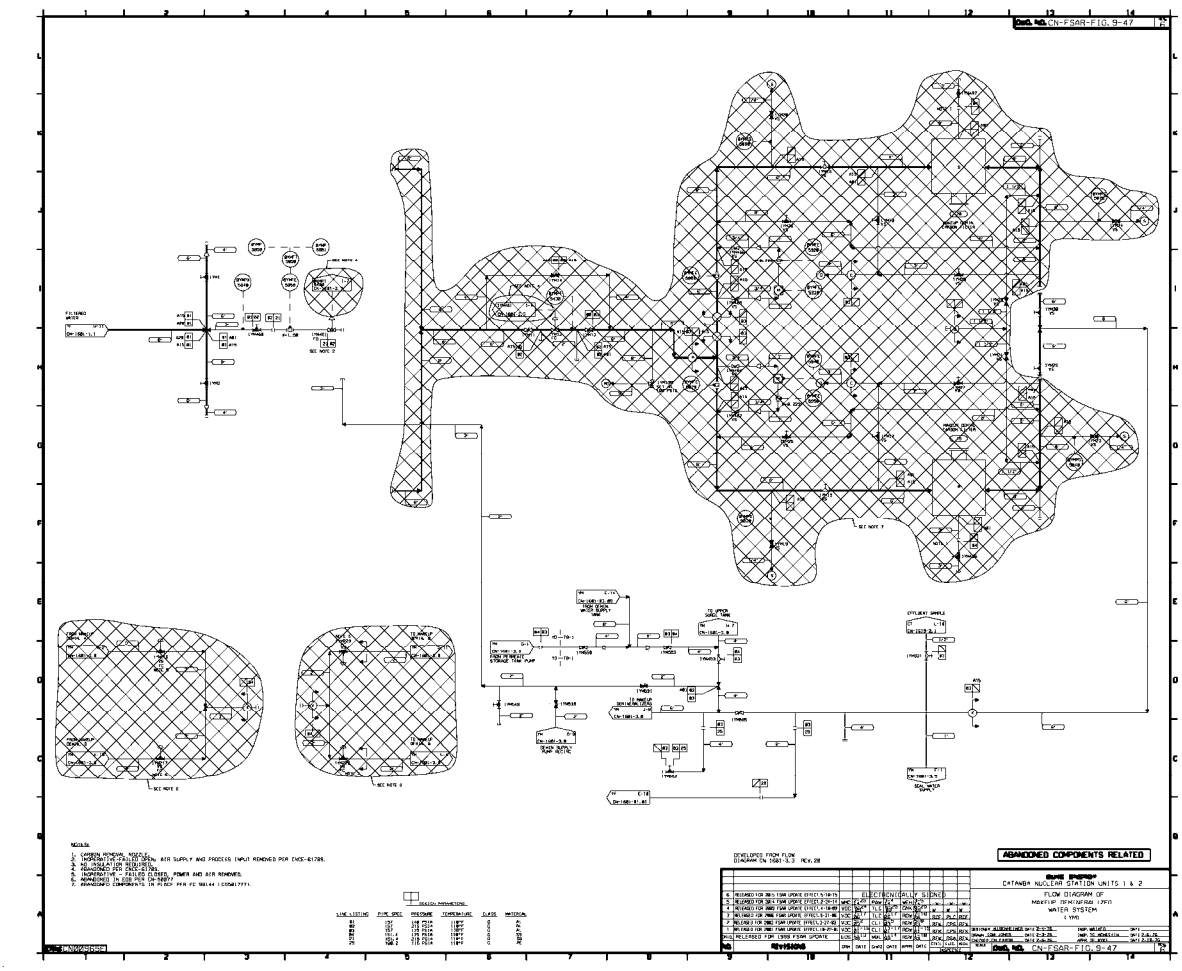

Figure 9-48. Flow Diagram of Makeup Demineralized Water System

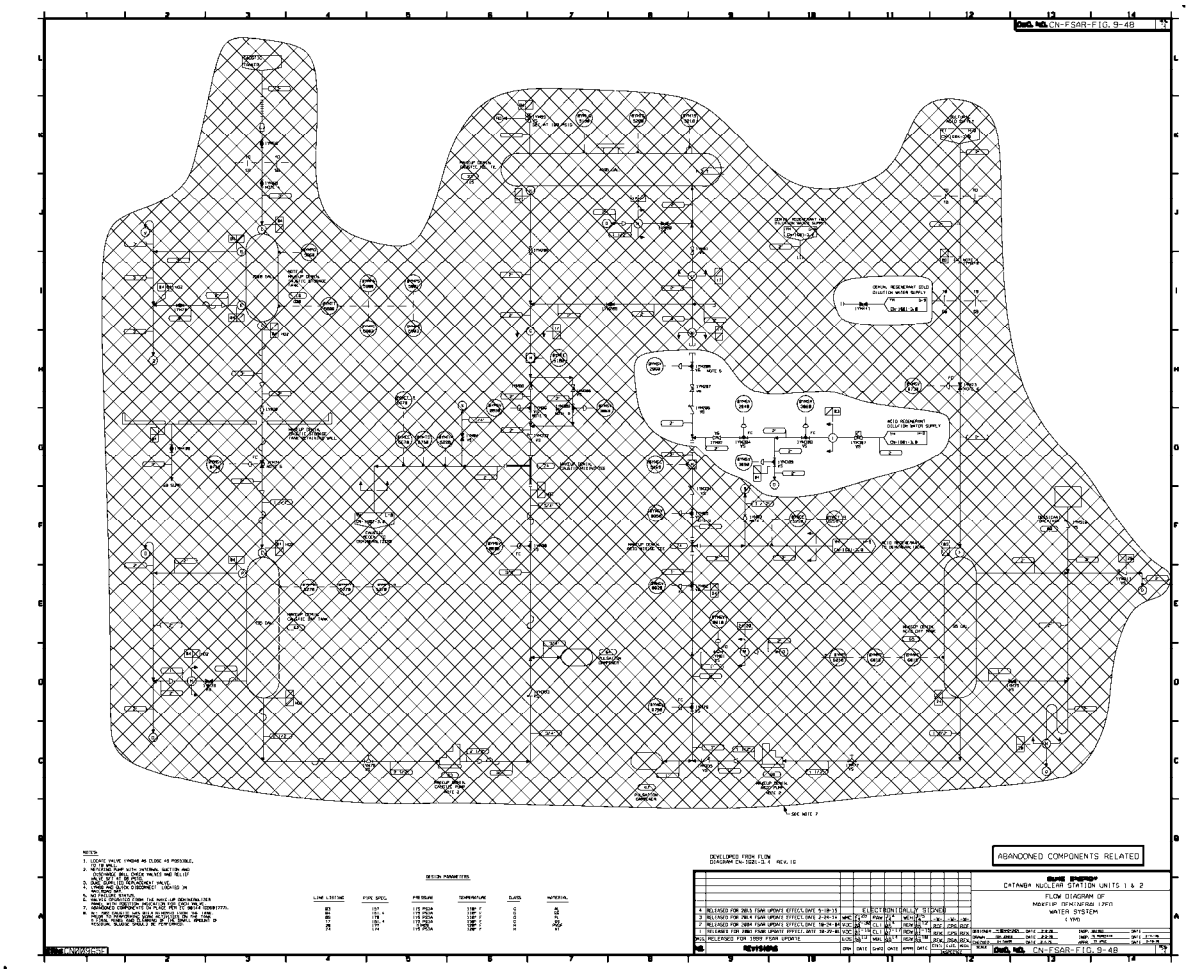

Figure 9-49. Flow Diagram of Makeup Demineralized Water System

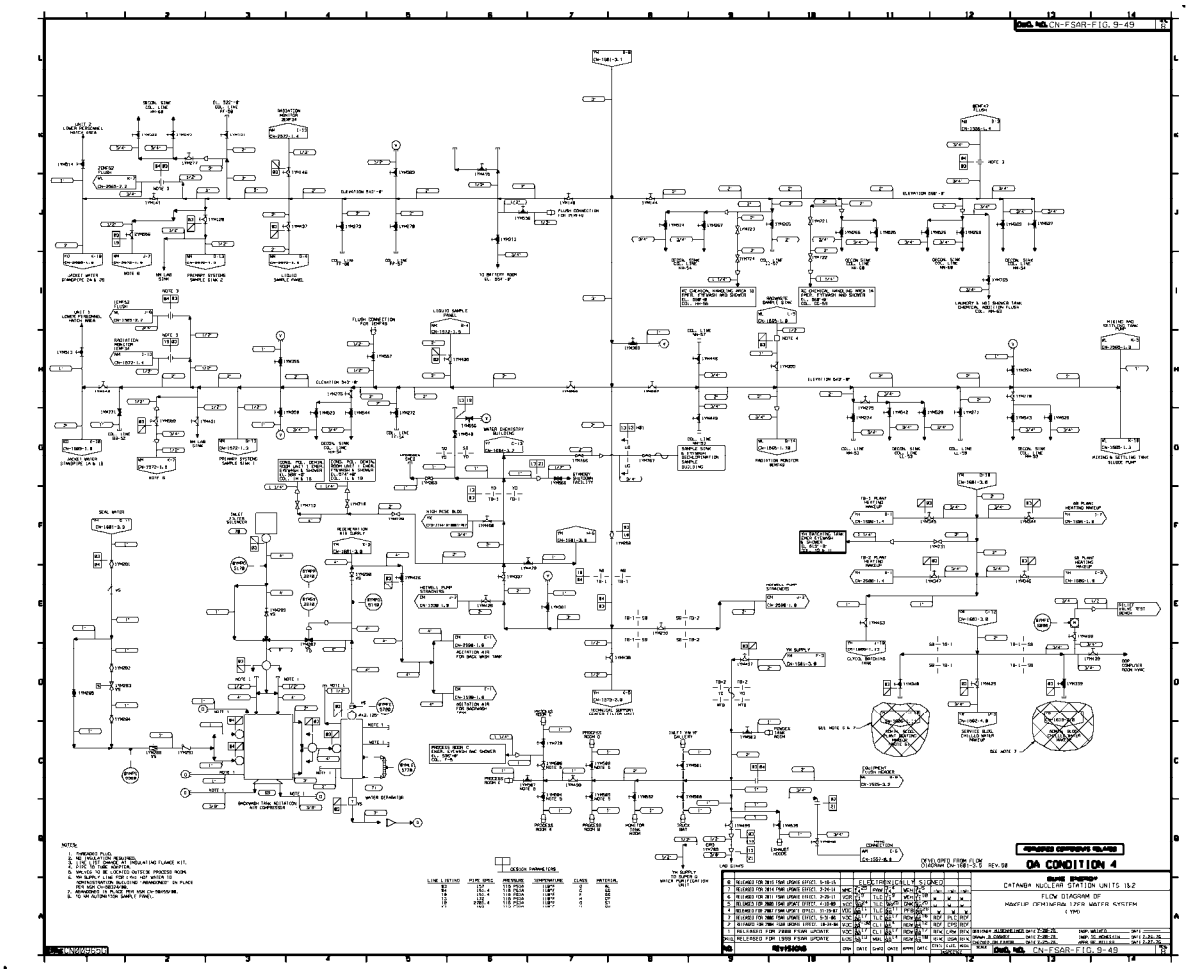

Figure 9-50. Flow Diagram of Filtered Water System

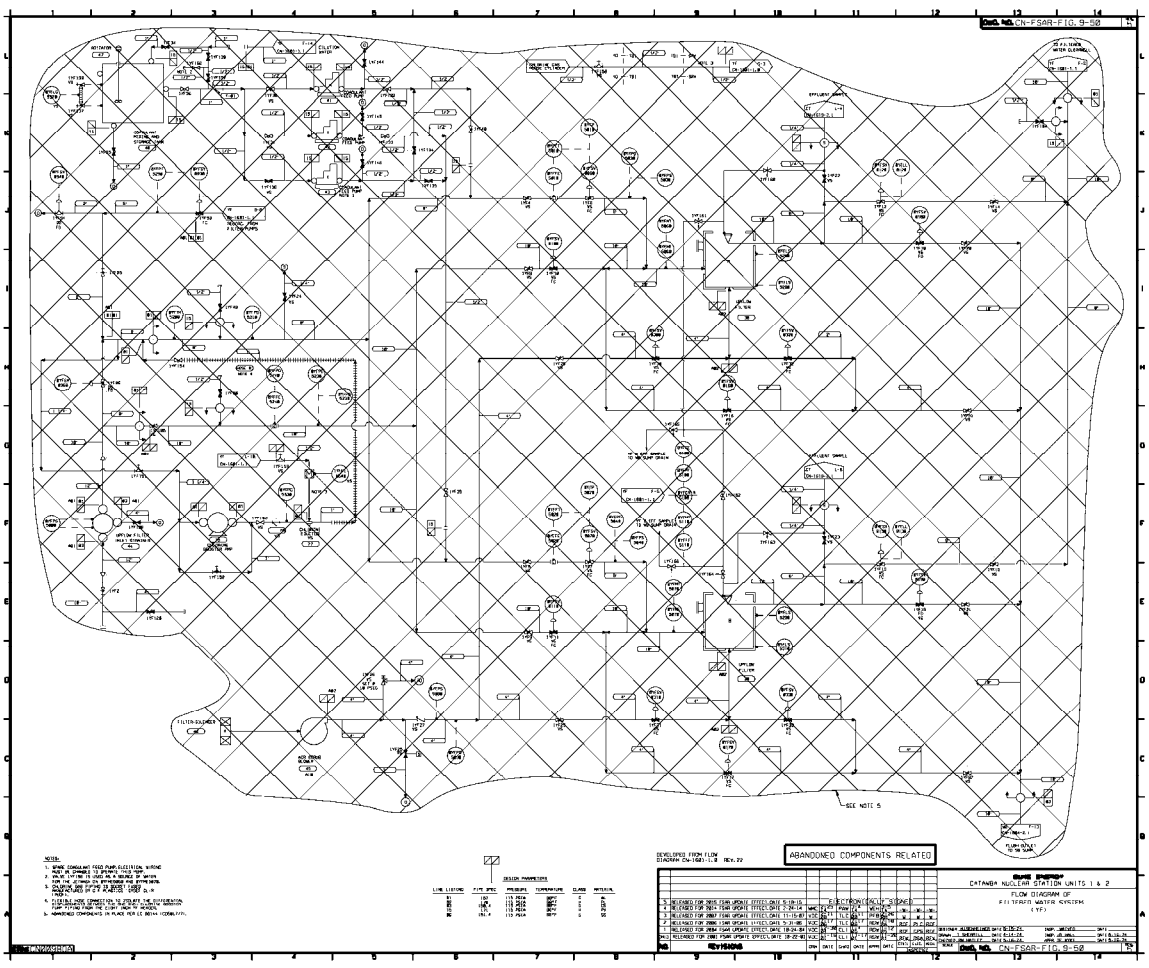

Figure 9-51. Flow Diagram of Filtered Water System

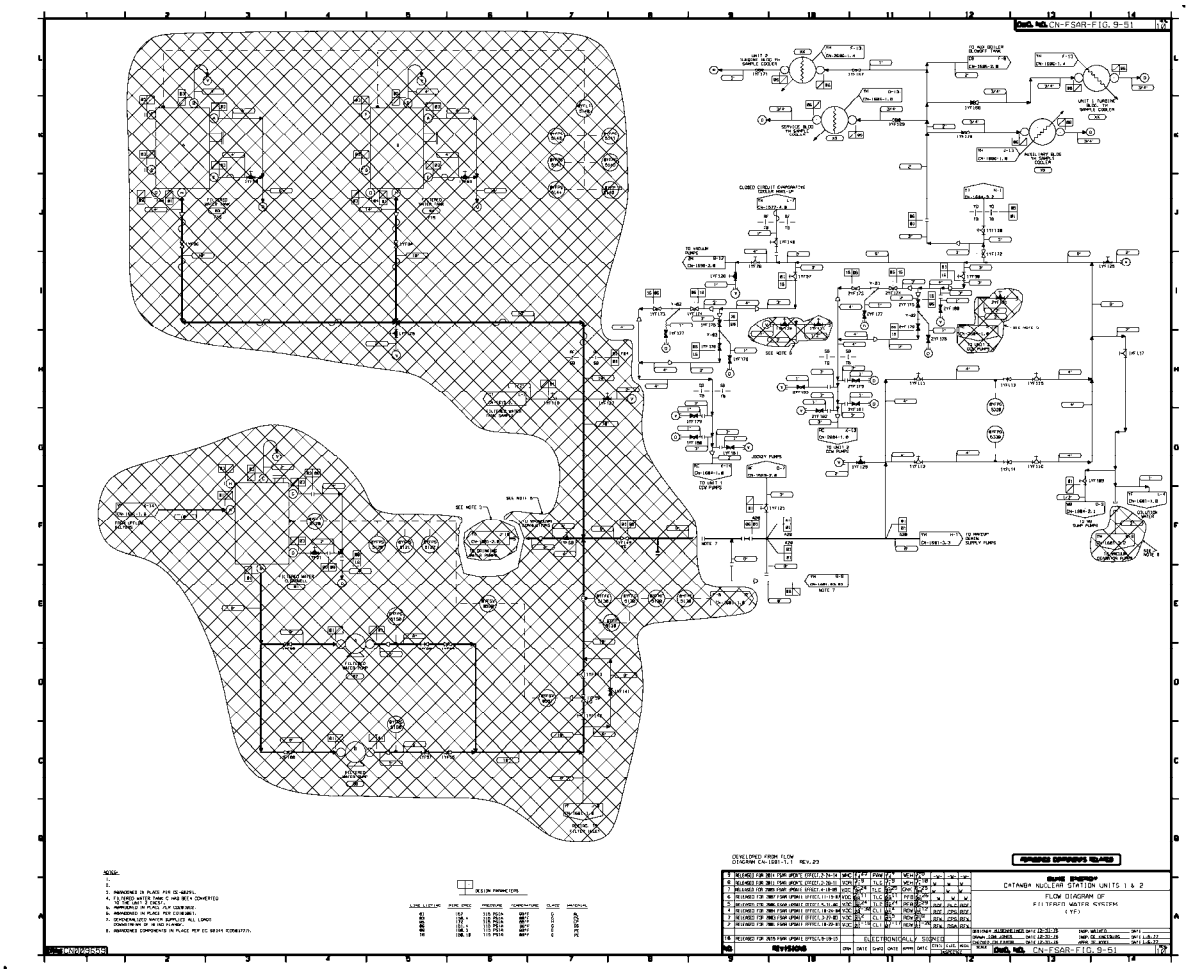

Figure 9-52. Flow Diagram of Drinking Water System

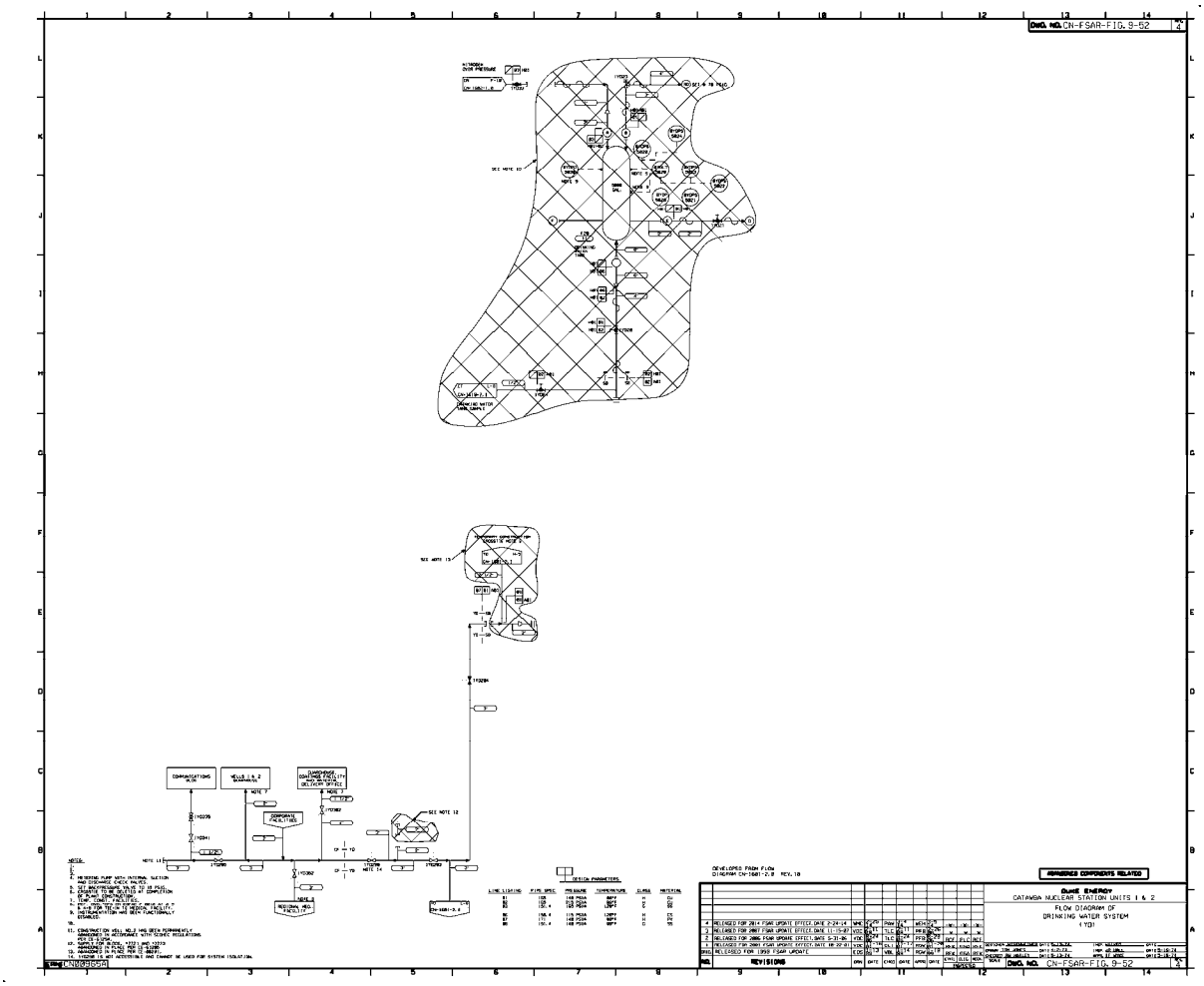

Figure 9-53. NSW Intake & SNSW Discharge Structures

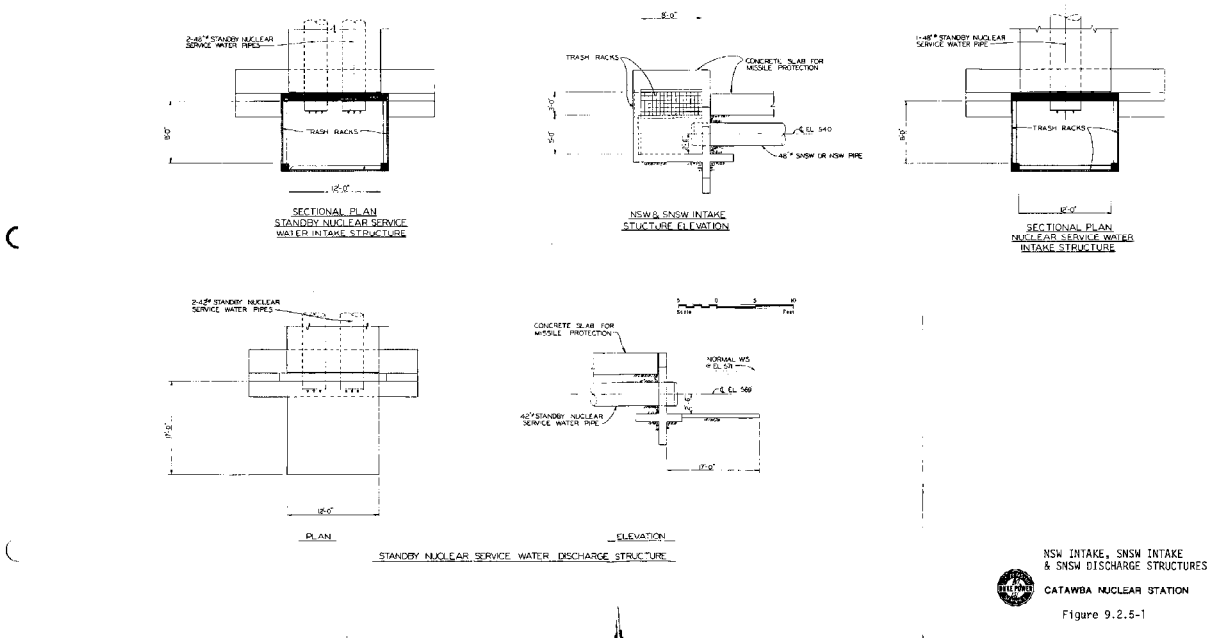

Figure 9-54. Catawba SNSWP Area Volume Curves

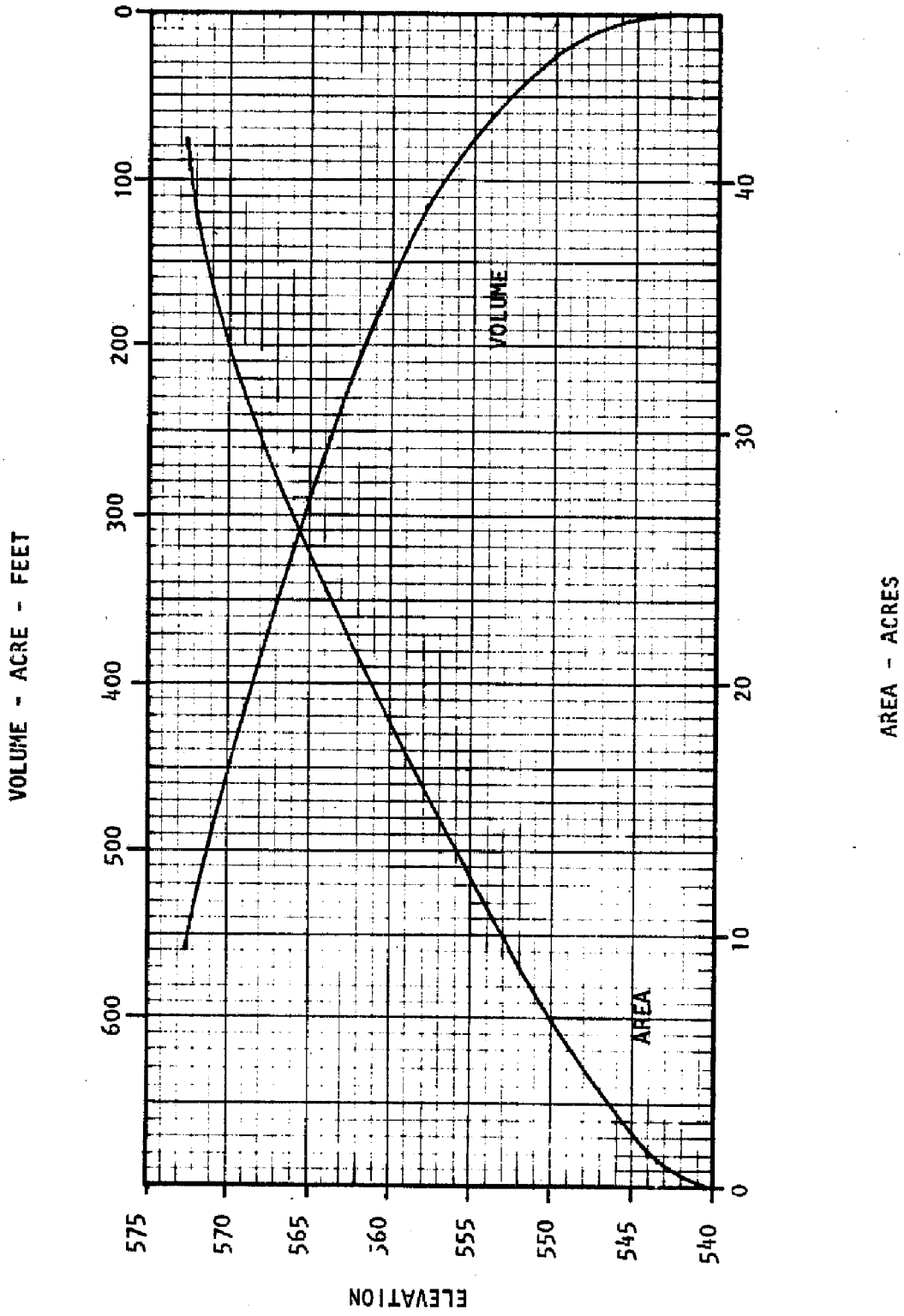

Figure 9-55. Deleted Per 1994 Update

Figure 9-56. Deleted Per 1994 Update

Figure 9-57. Deleted Per 2000 Update

Figure 9-58. Residual Decay Heat

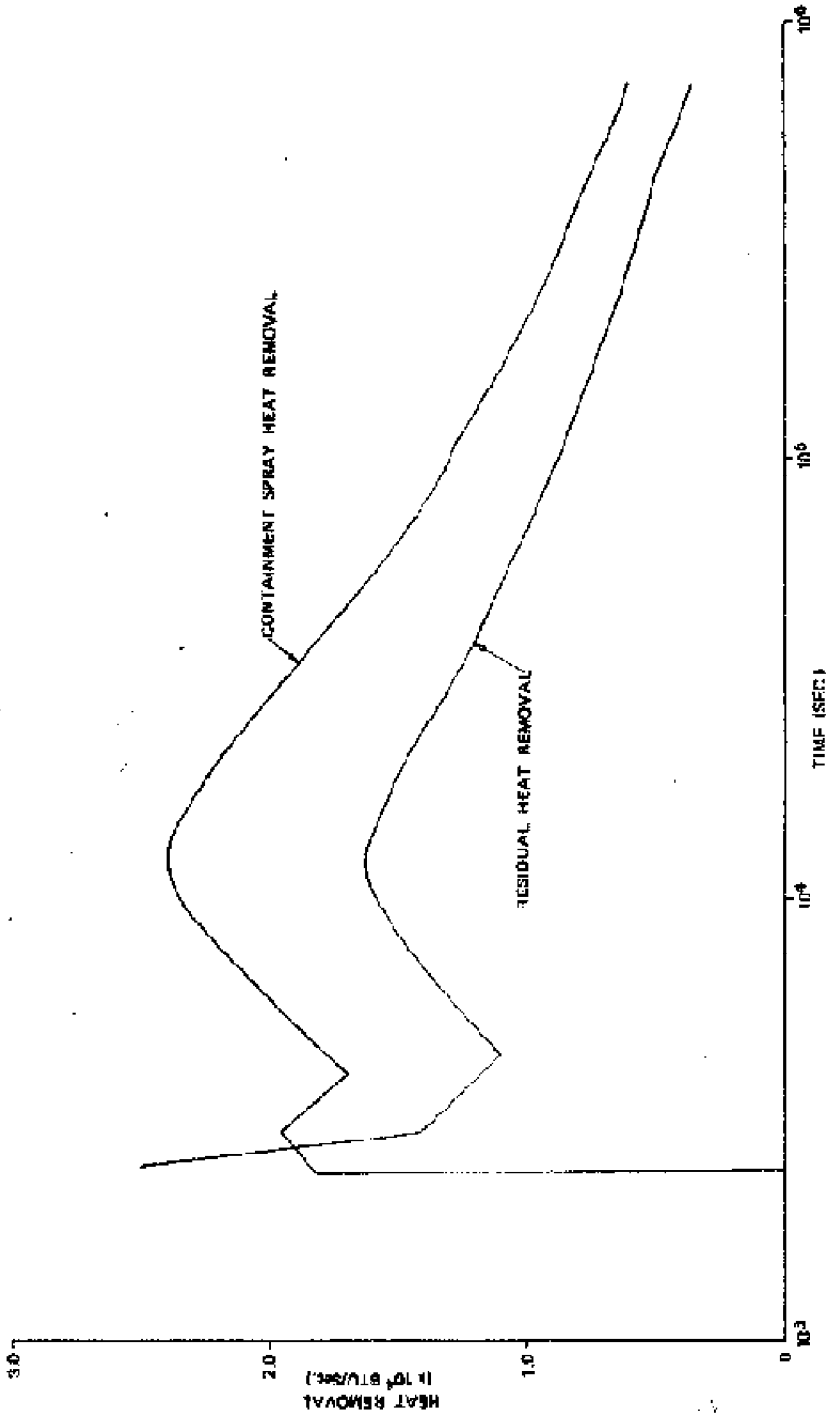

Figure 9-59. Flow Diagram of Condensate Storage System

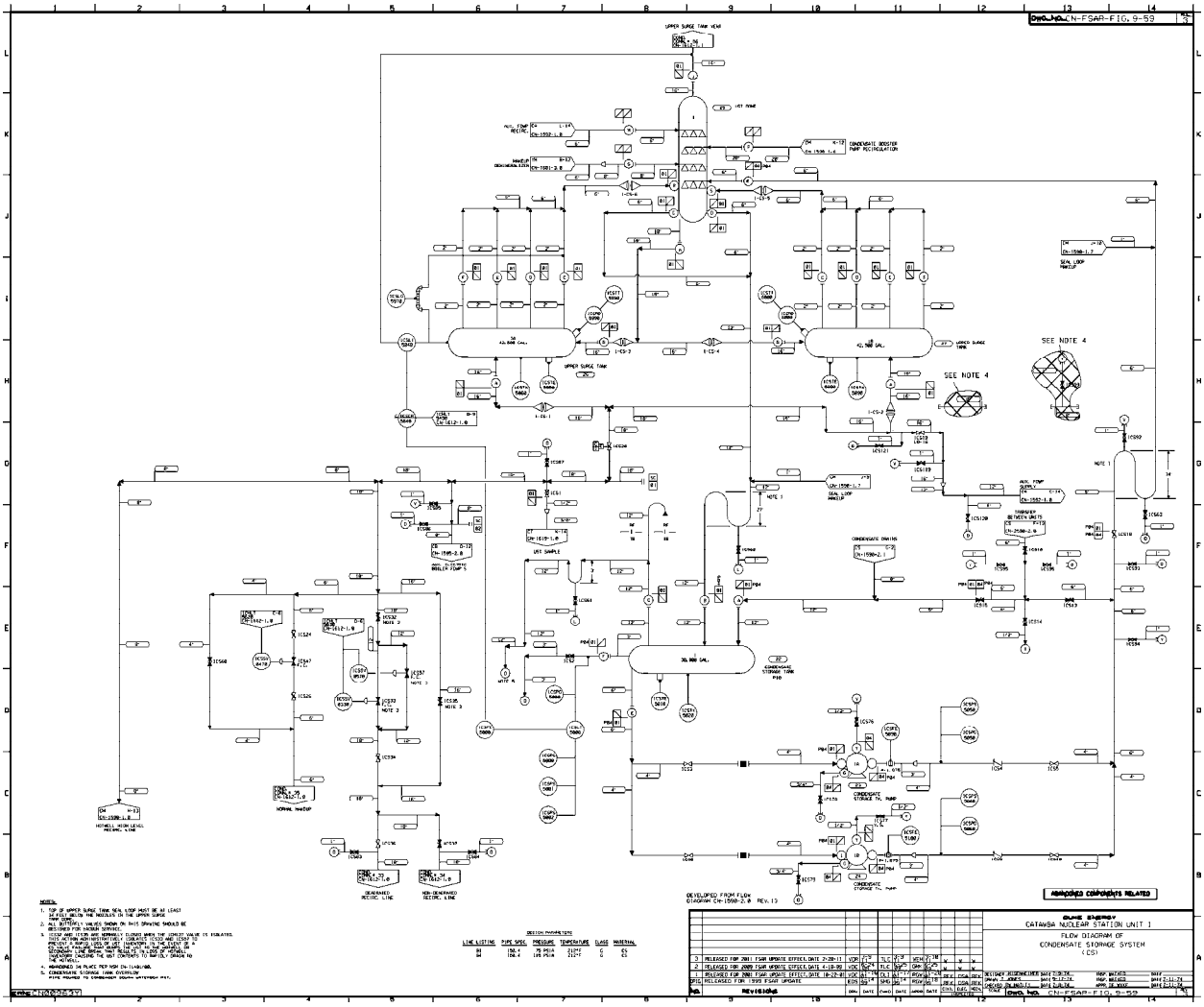

Figure 9-60. Flow Diagram of Condensate Storage System

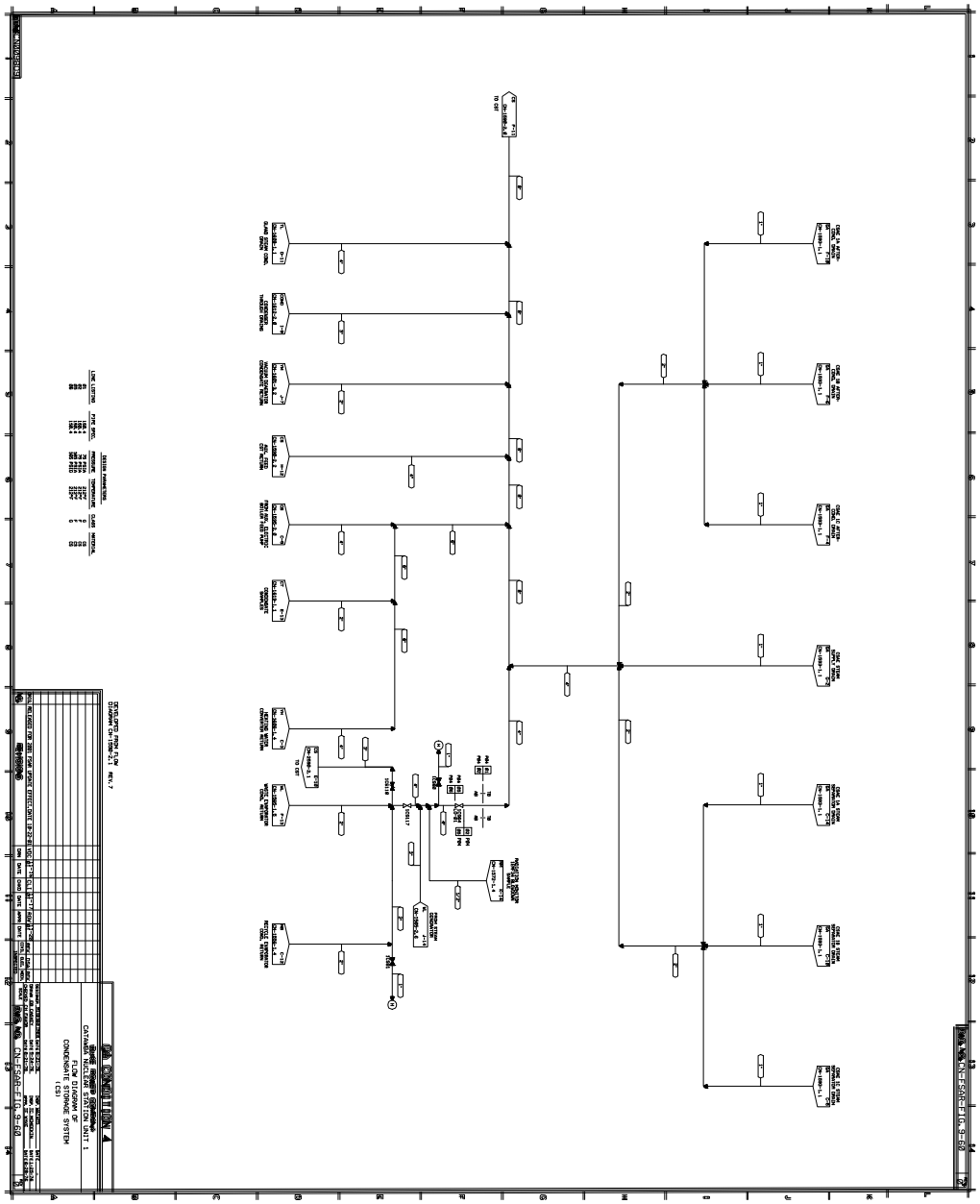

Figure 9-61. Flow Diagram of Condensate Storage System

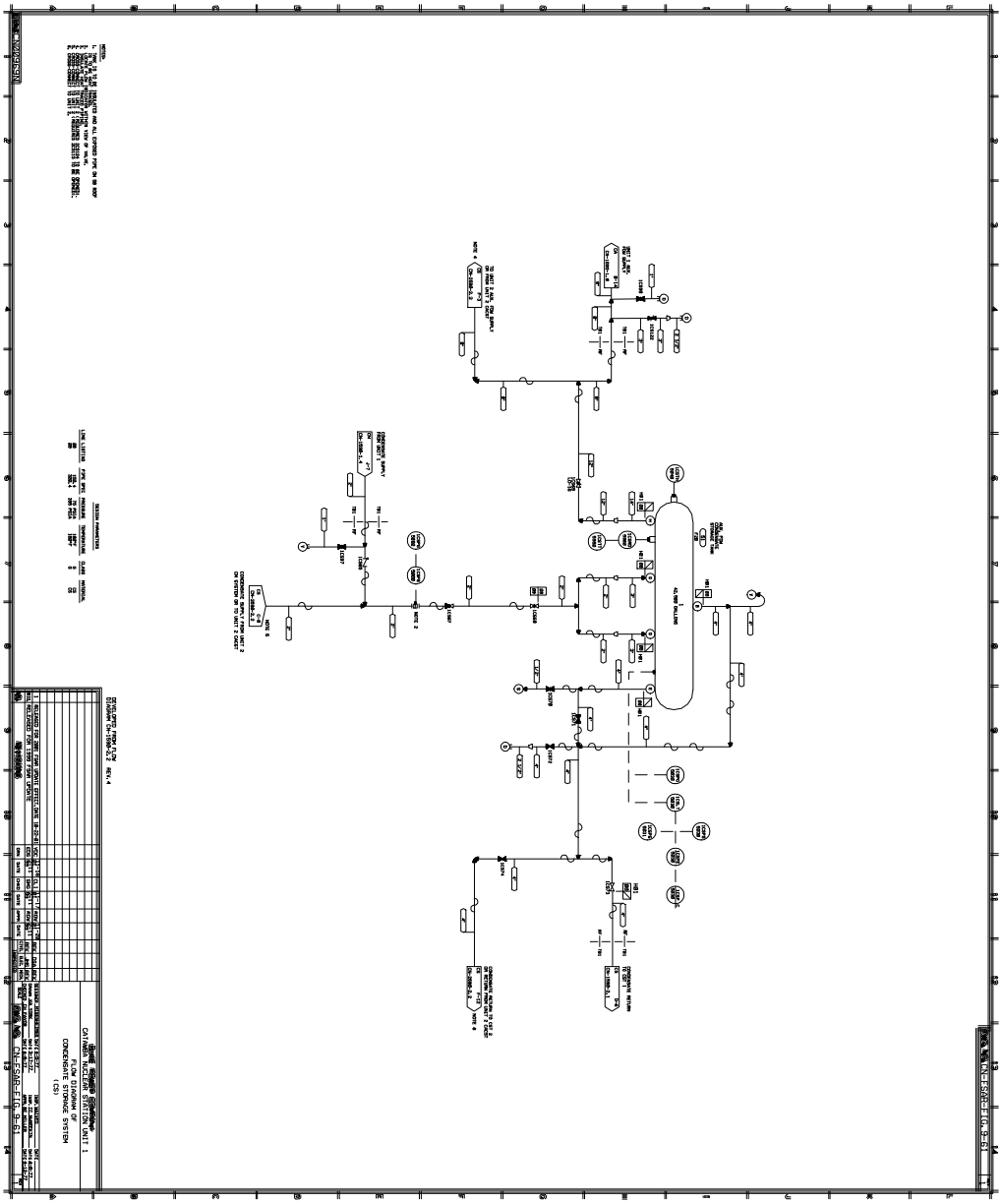

Figure 9-62. Flow Diagram of Refueling Water System

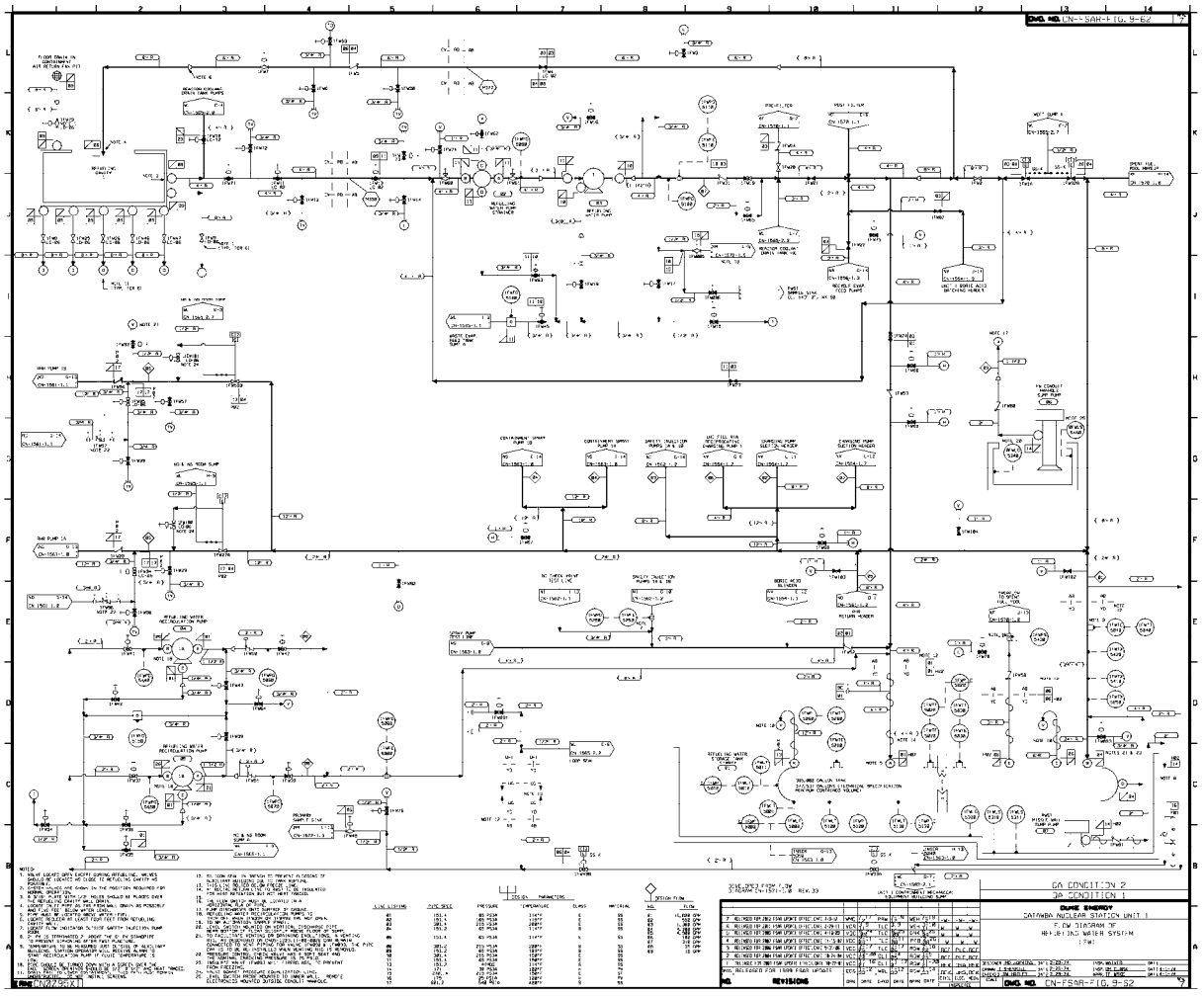

Figure 9-63. Flow Diagram of Conventional LPSW System

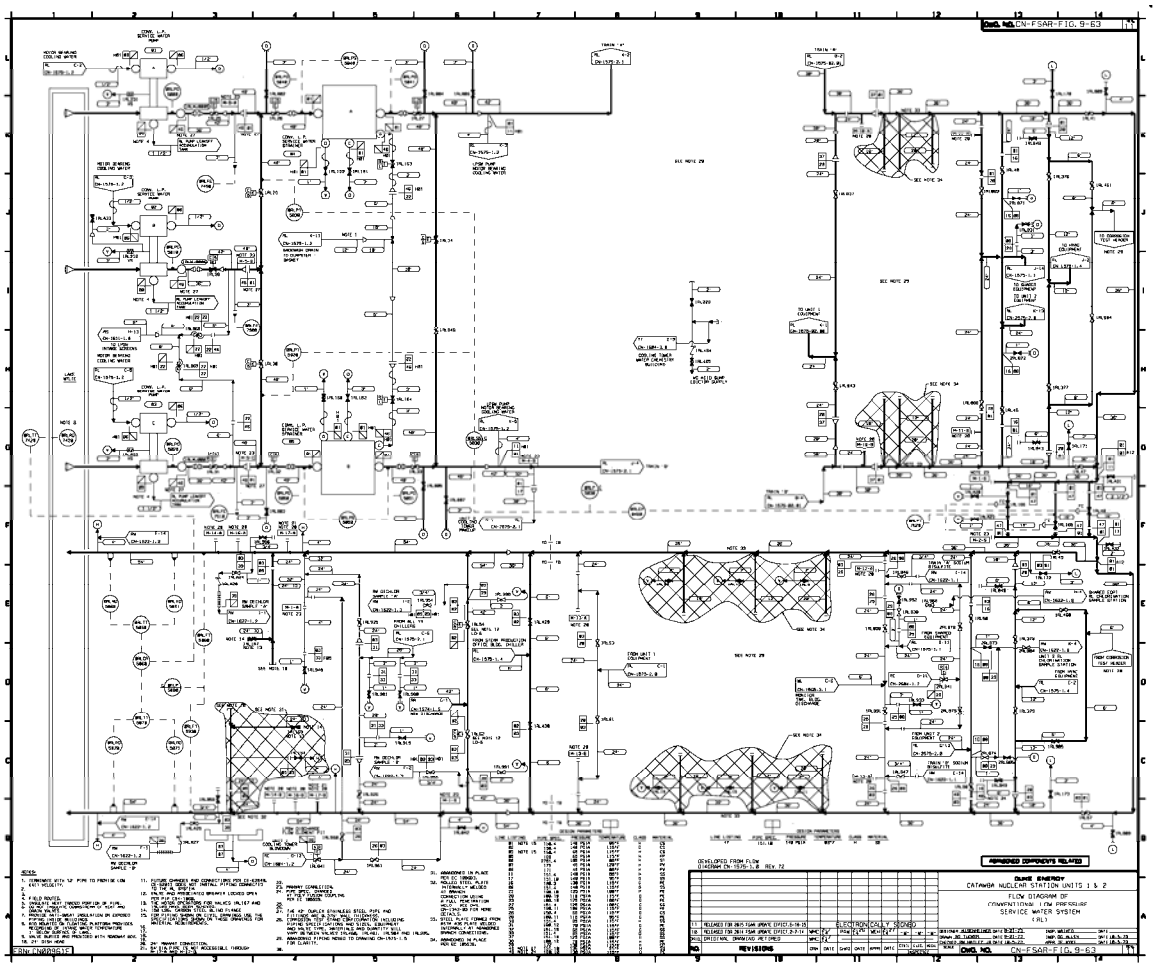

Figure 9-64. Flow Diagram of Conventional LPSW System

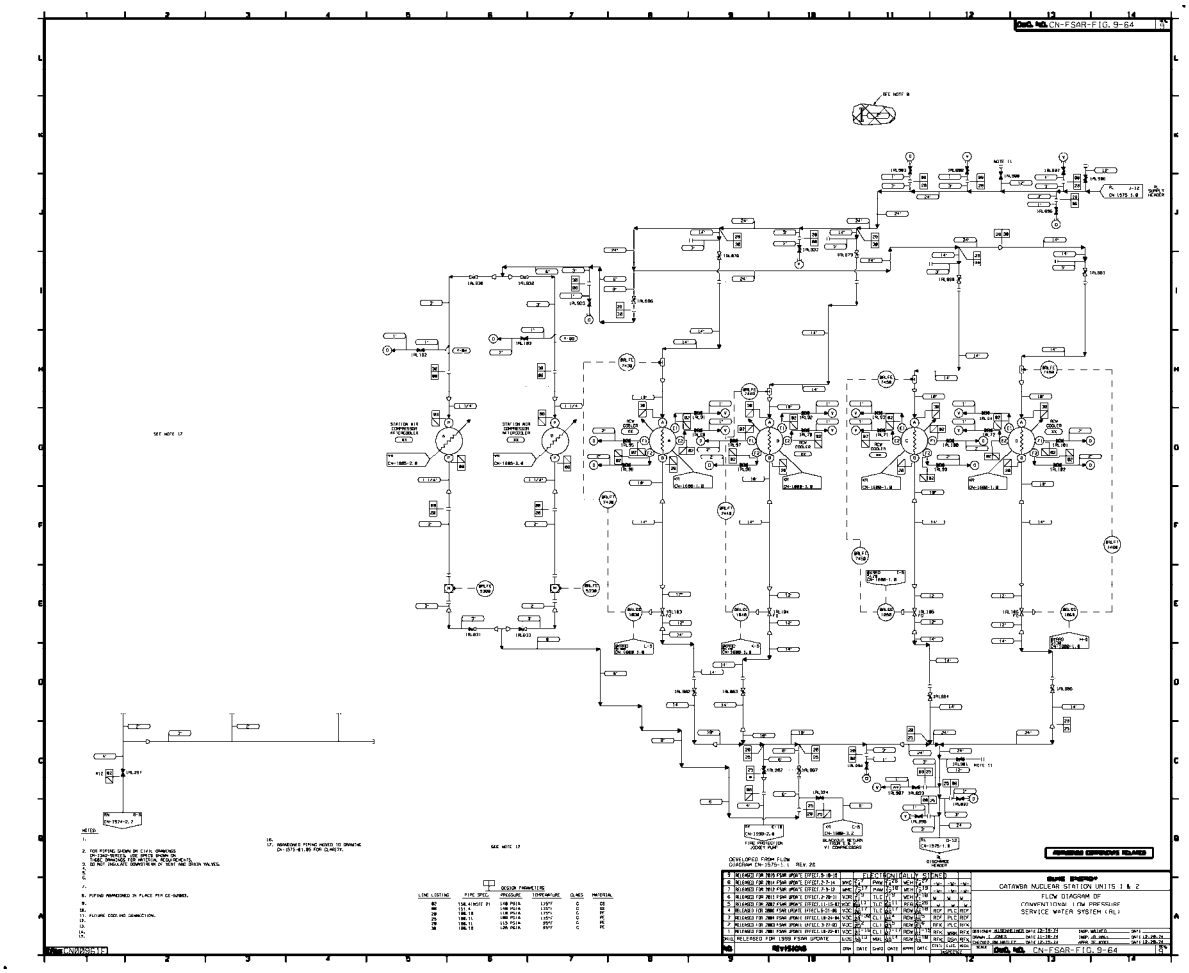

Figure 9-65. Flow Diagram of Conventional LPSW System

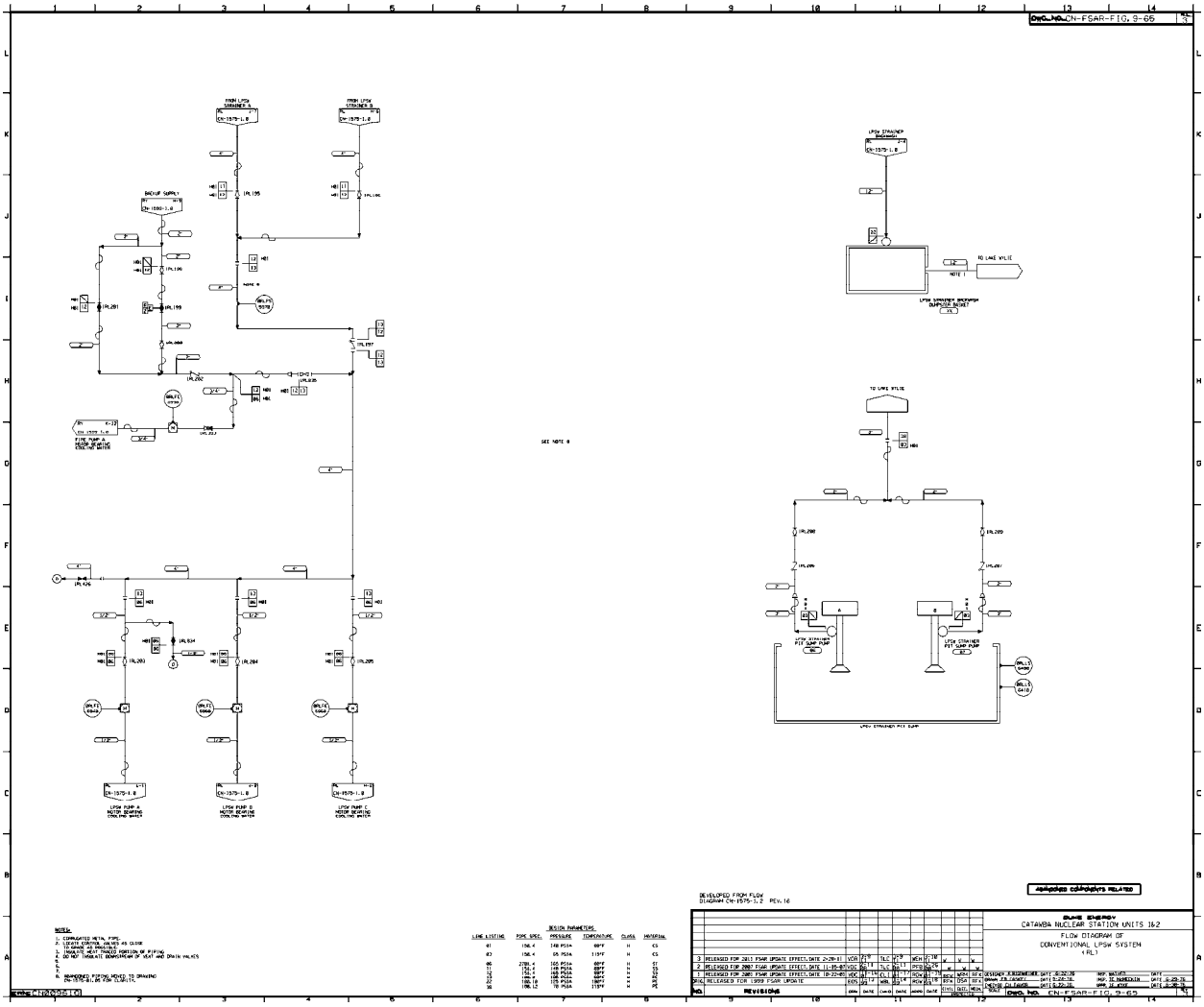

Figure 9-66. Flow Diagram of Conventional LPSW System

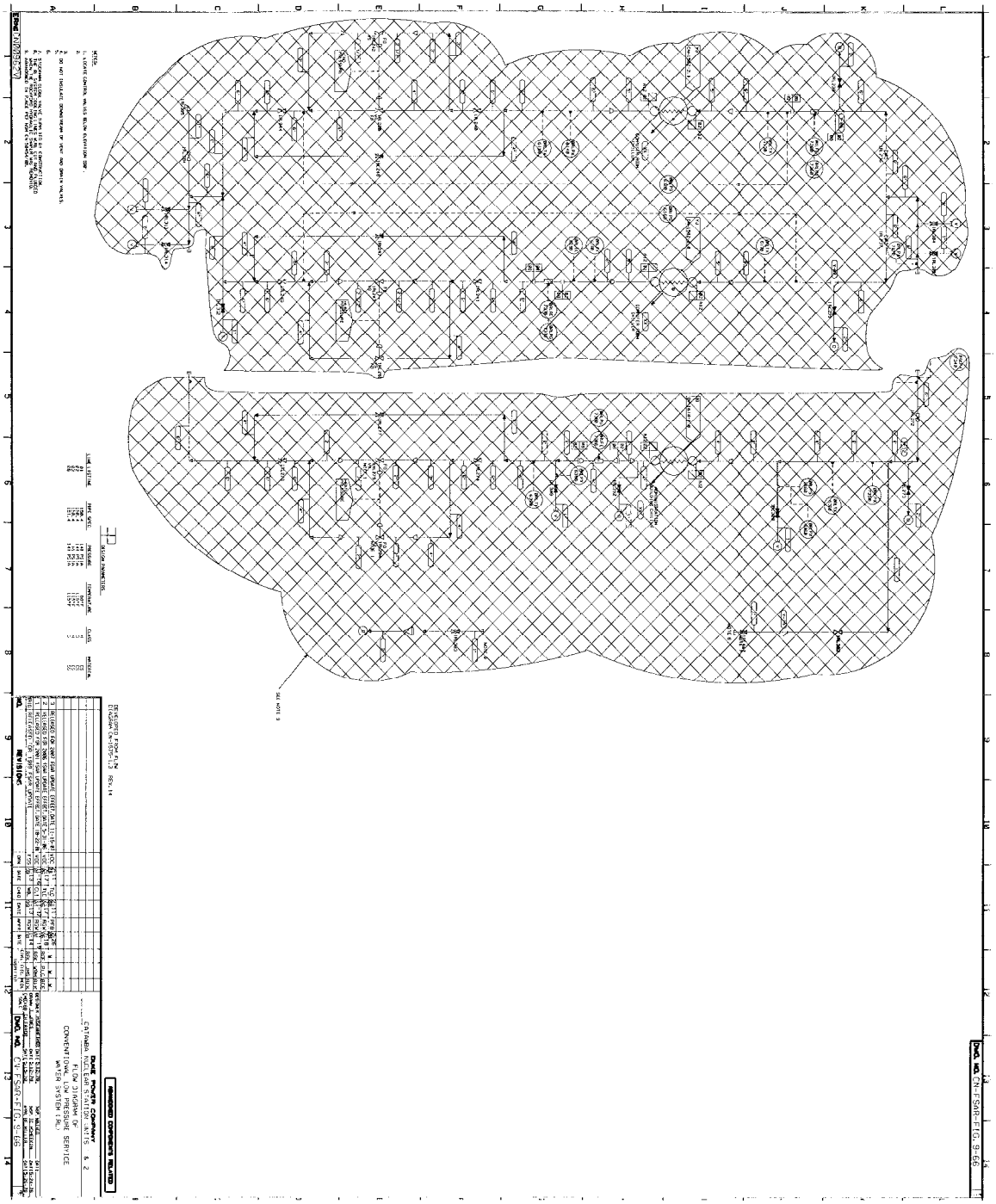

Figure 9-67. Flow Diagram of Conventional LPSW System

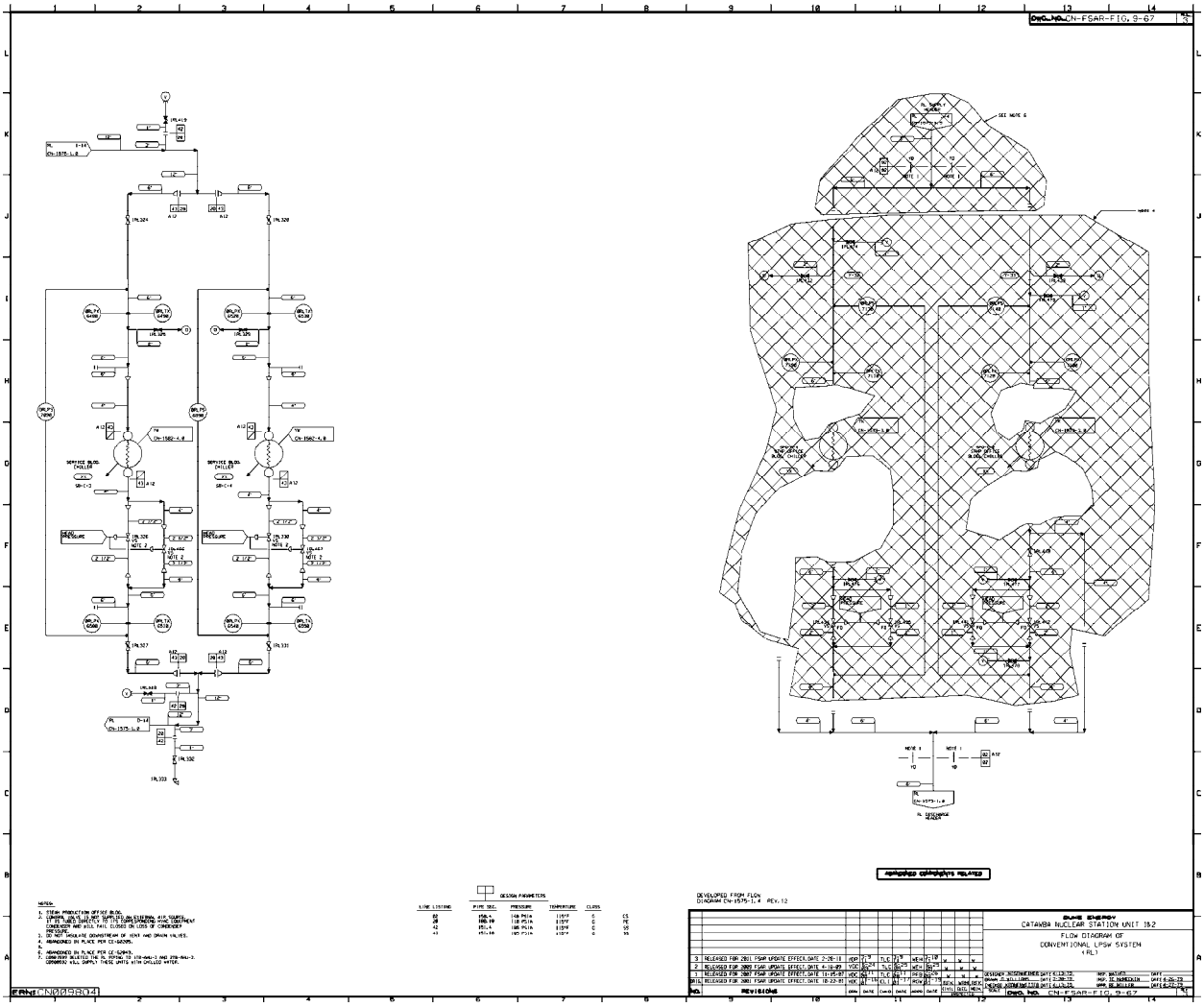

Figure 9-68. Flow Diagram of Conventional LPSW System

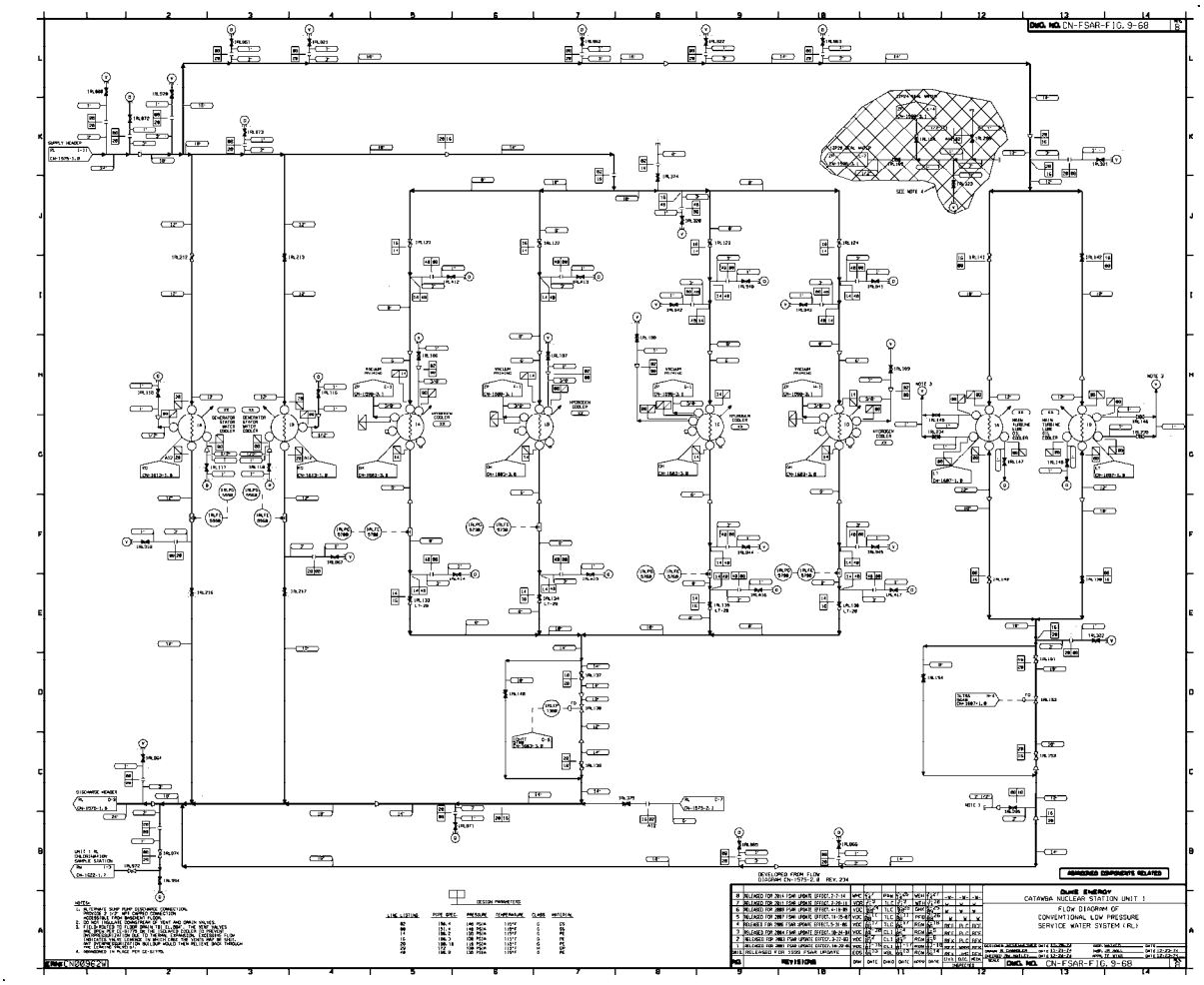

Figure 9-69. Flow Diagram of Conventional LPSW System

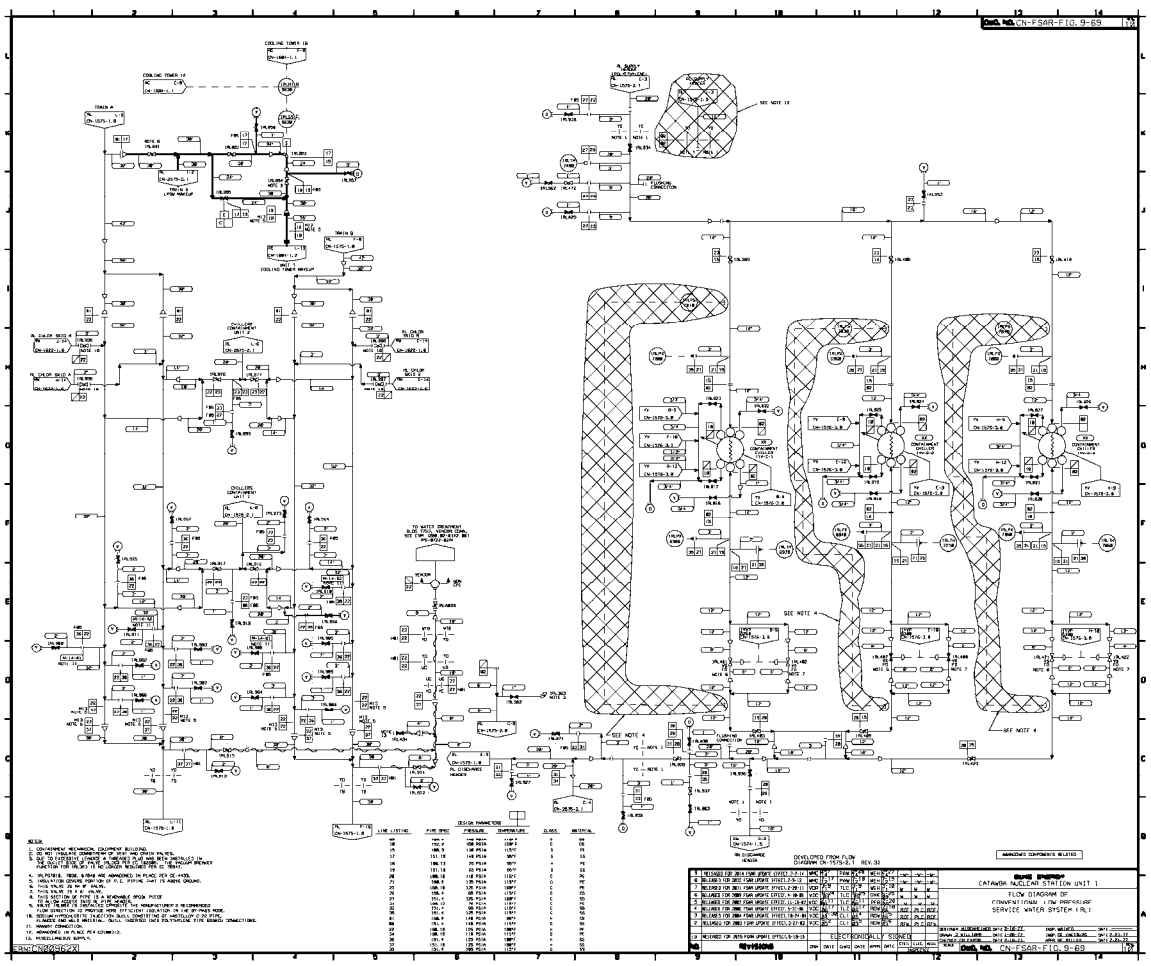

Figure 9-70. Flow Diagram of Instrument Air System

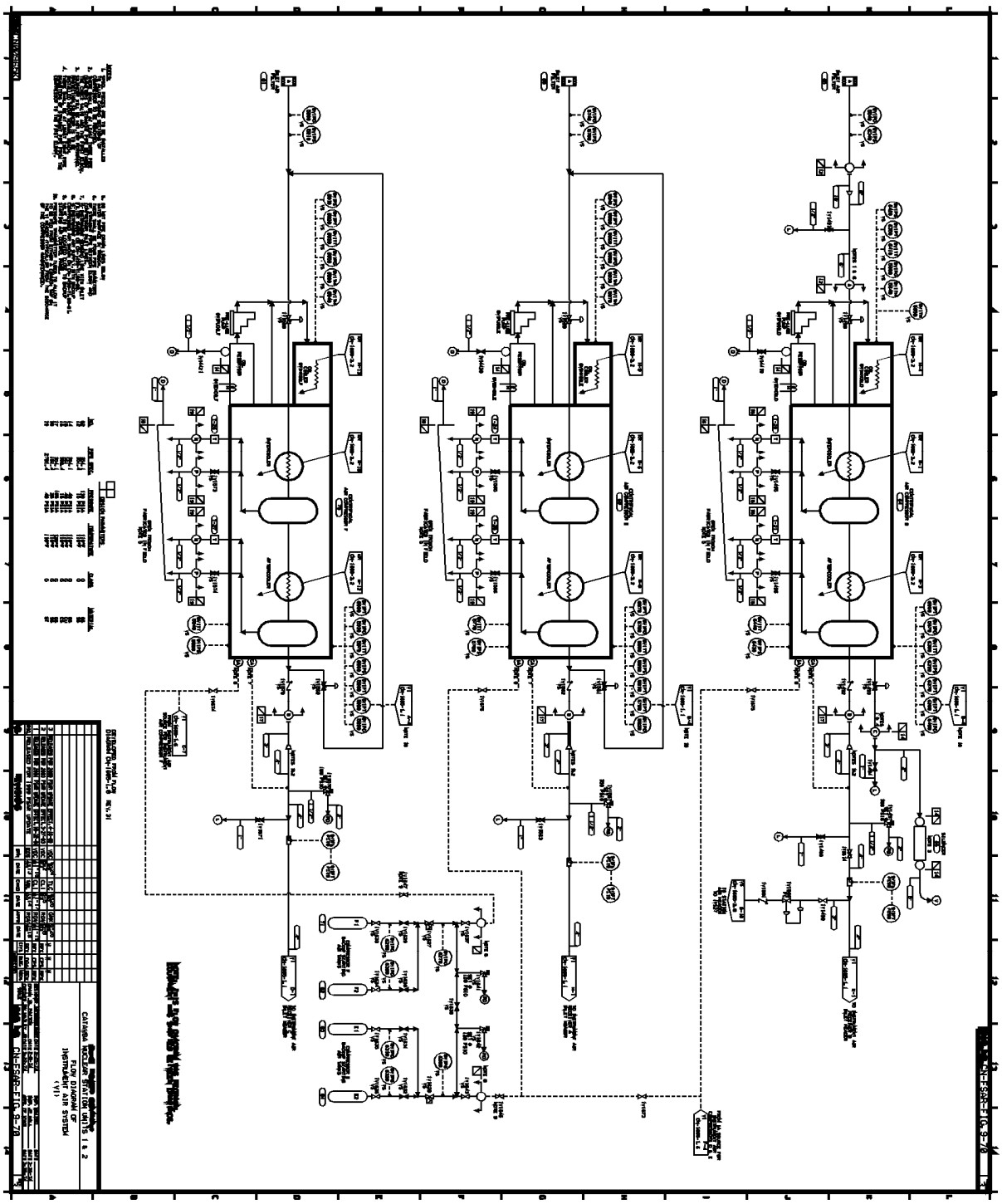

Figure 9-71. Flow Diagram of Instrument Air System

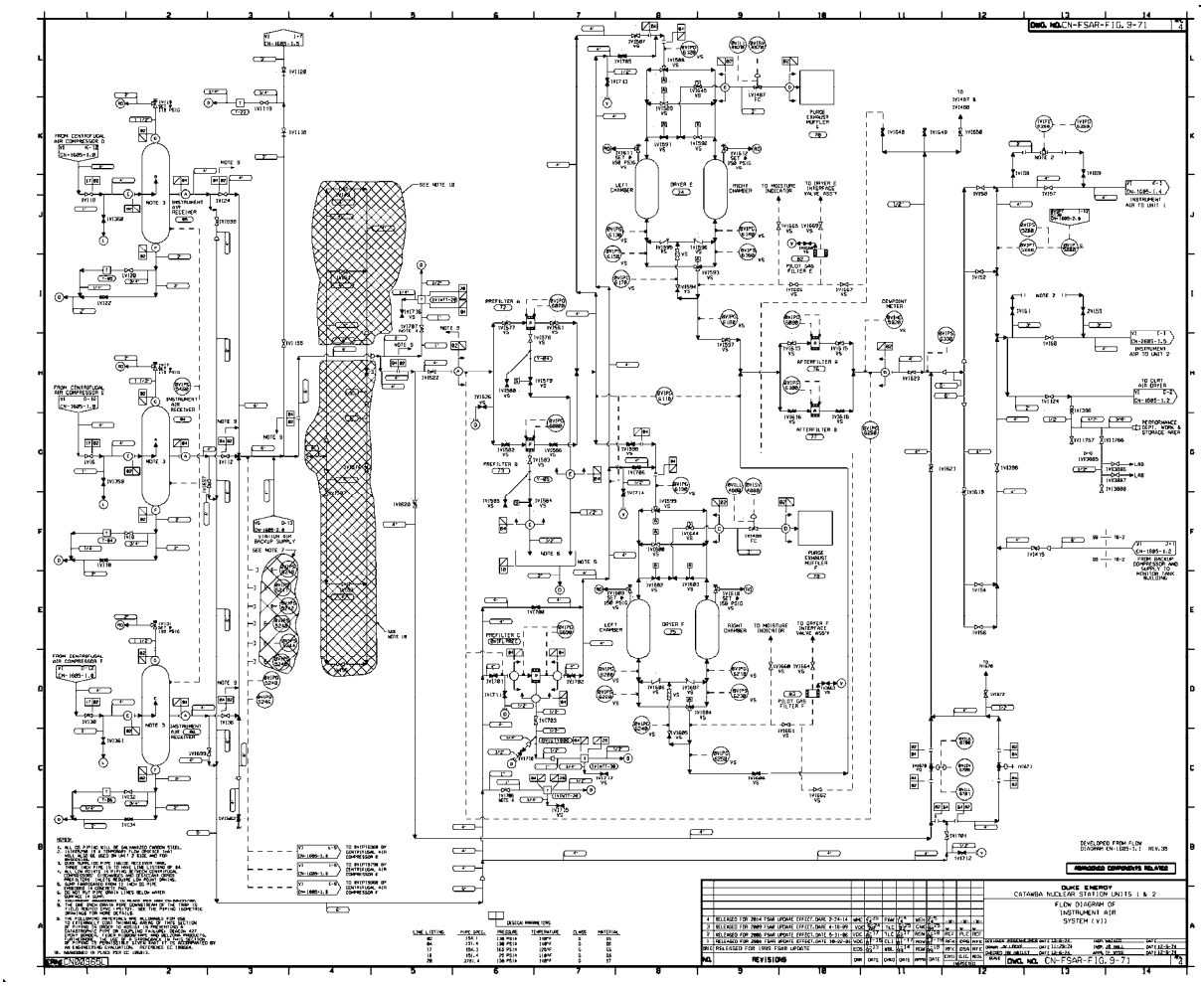

Figure 9-72. Flow Diagram of Instrument Air System

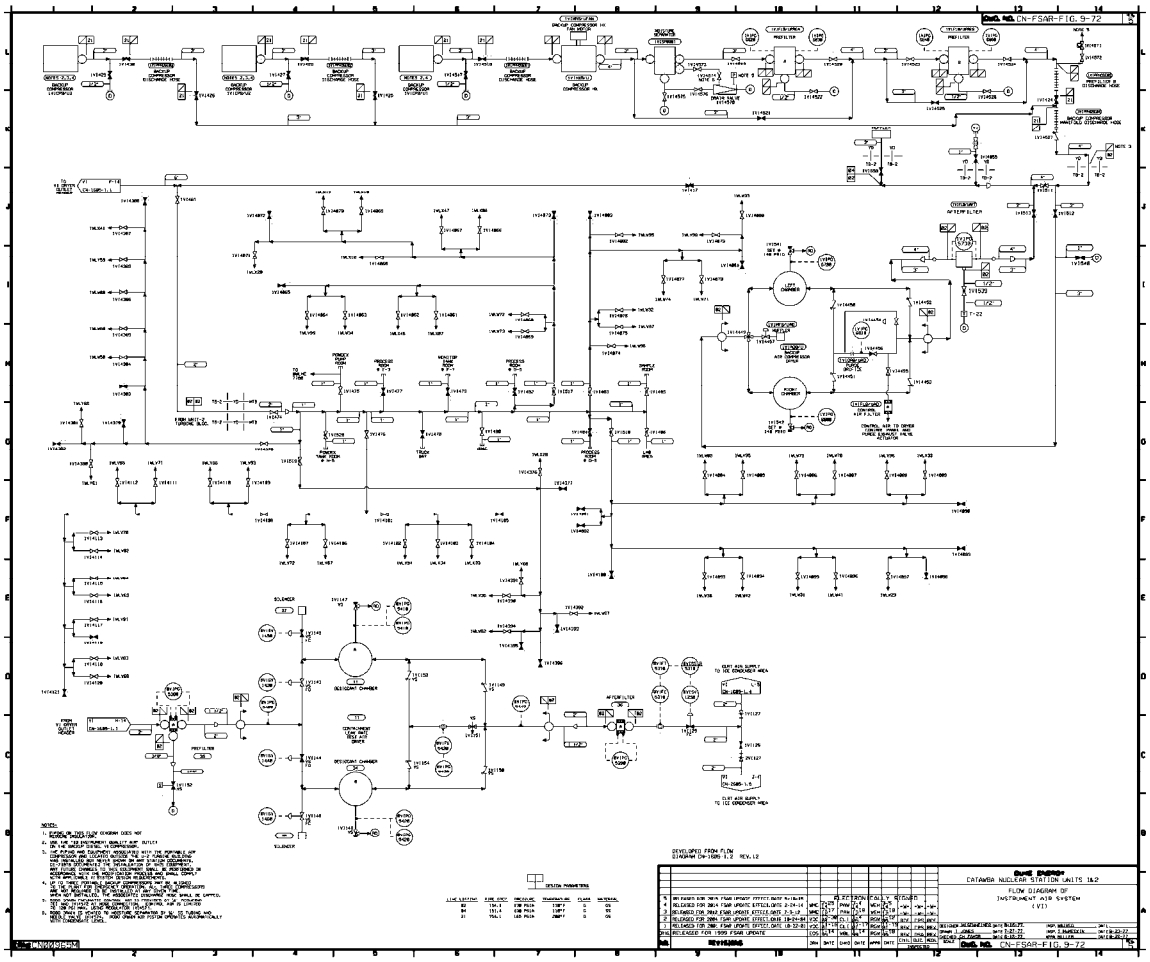

Figure 9-73. Flow Diagram of Station Air System

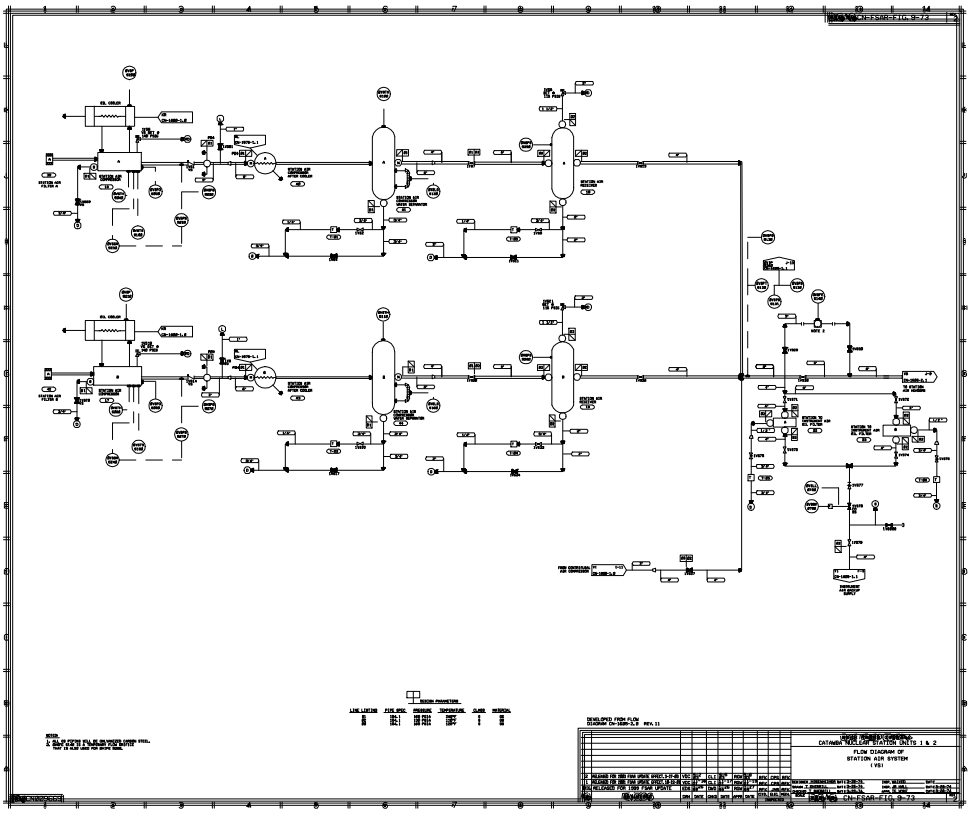

Figure 9-74. Flow Diagram of Station Air System

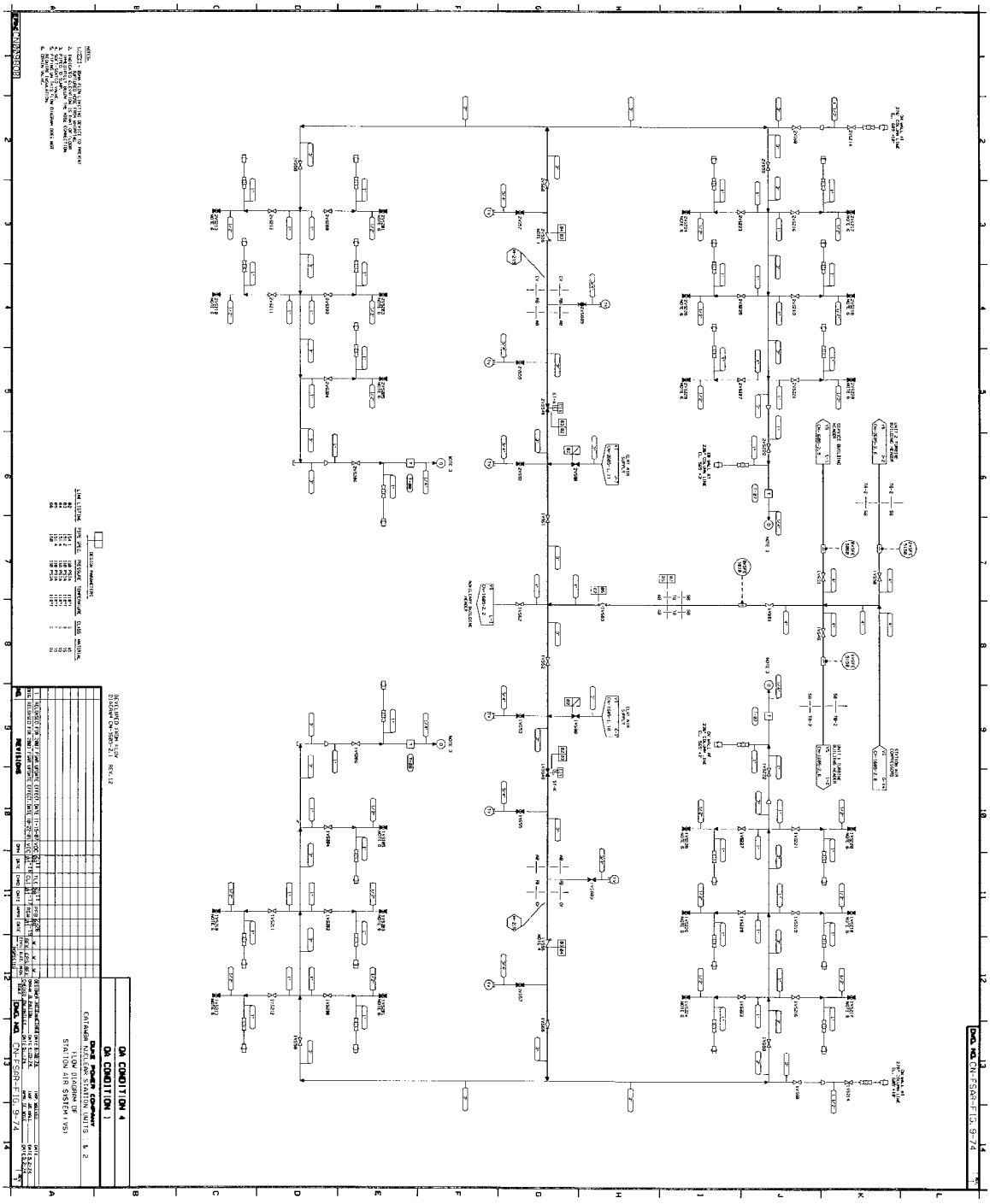

Figure 9-75. Flow Diagram of Breathing Air System

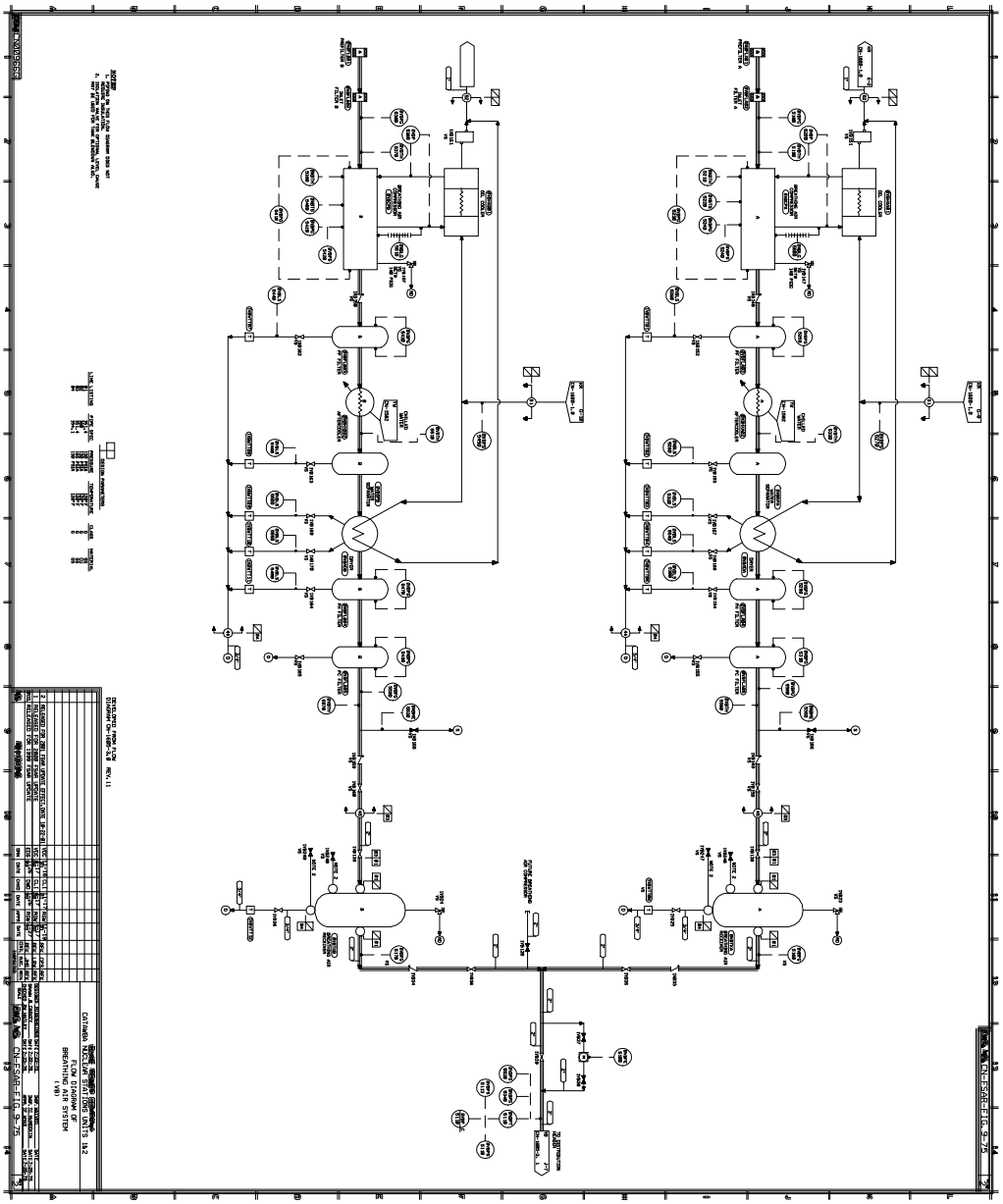

Figure 9-76. Flow Diagram of Breathing Air System

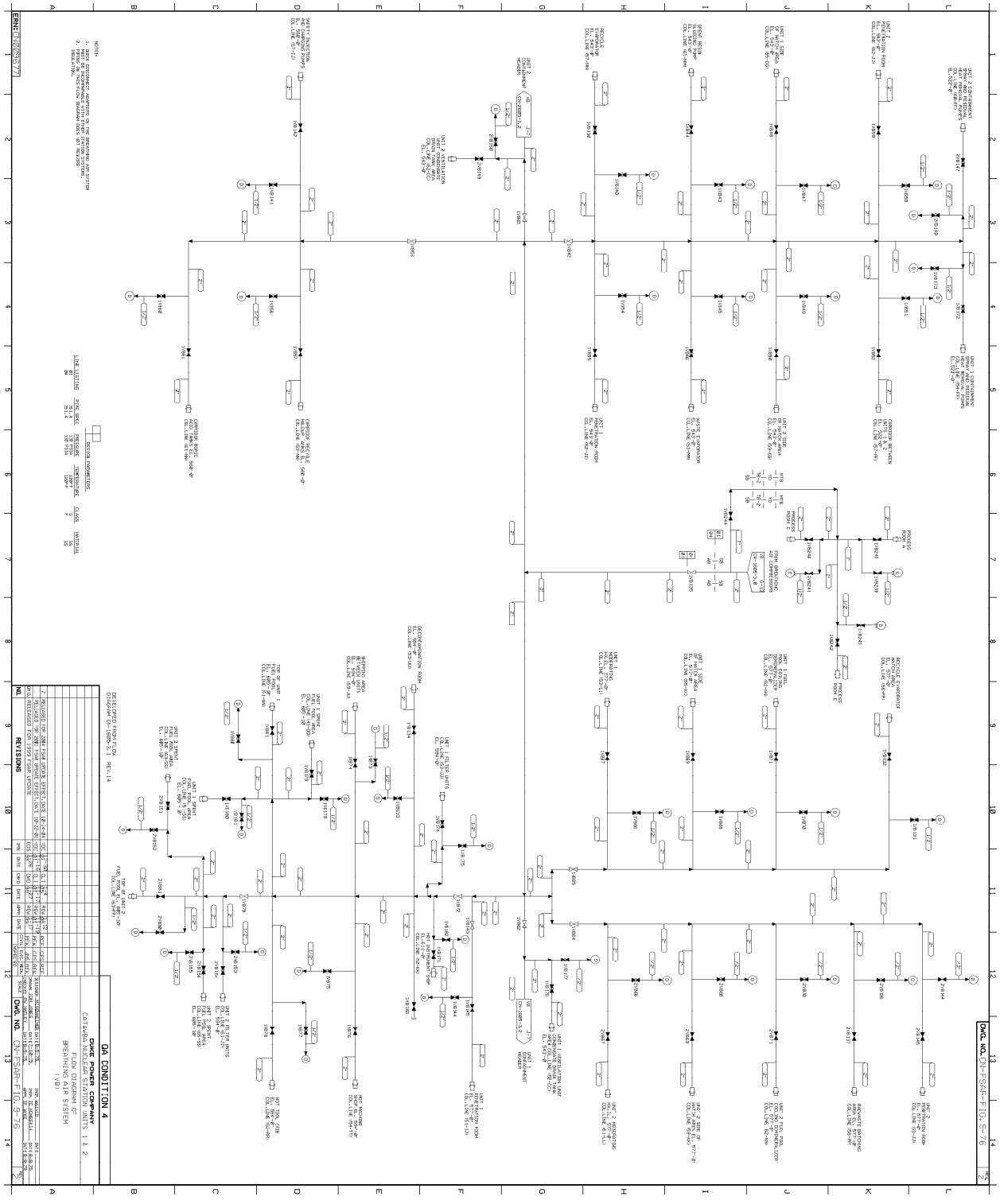

Figure 9-77. Flow Diagram of Breathing Air System

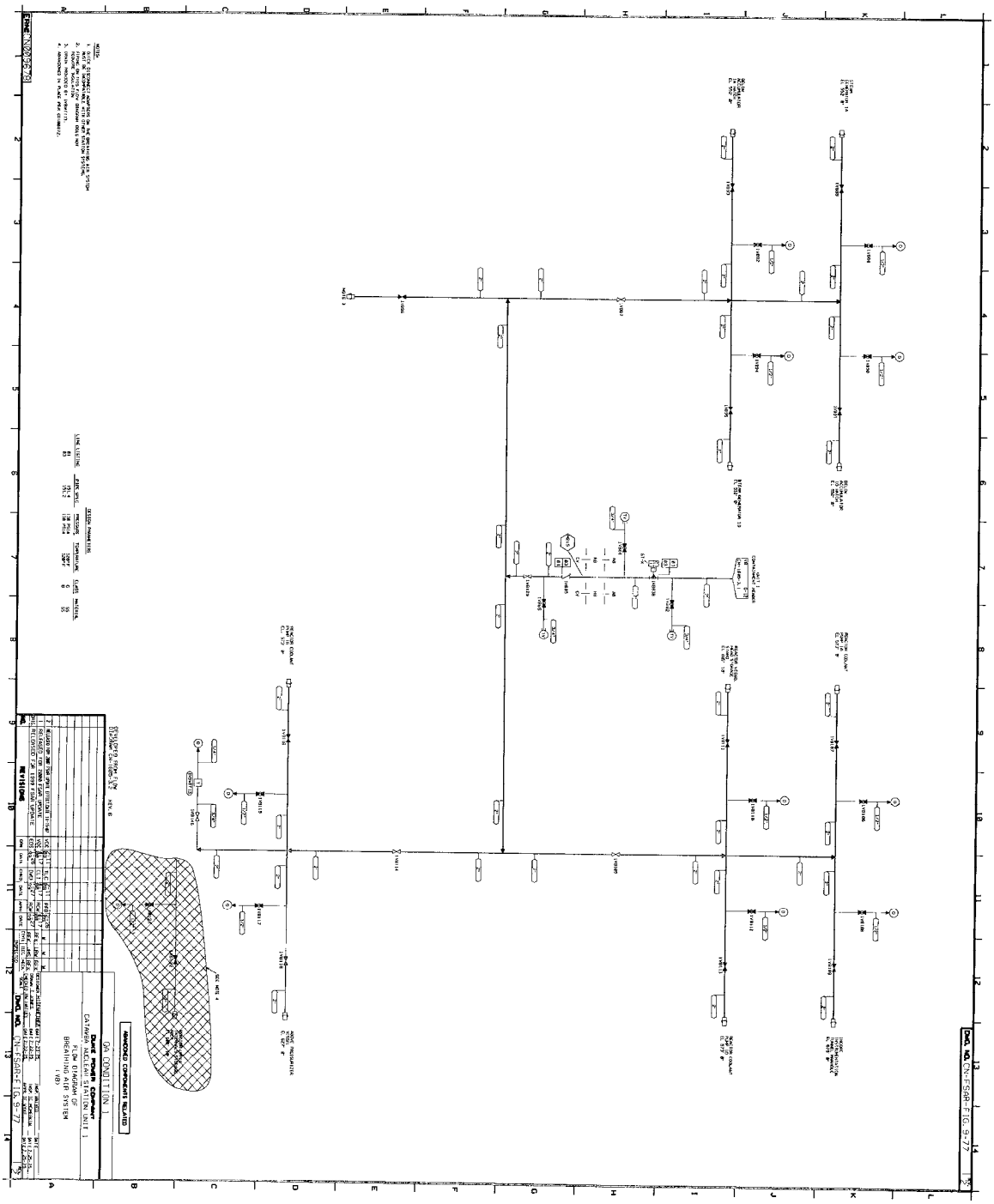

Figure 9-78. Flow Diagram of Nuclear Sampling System

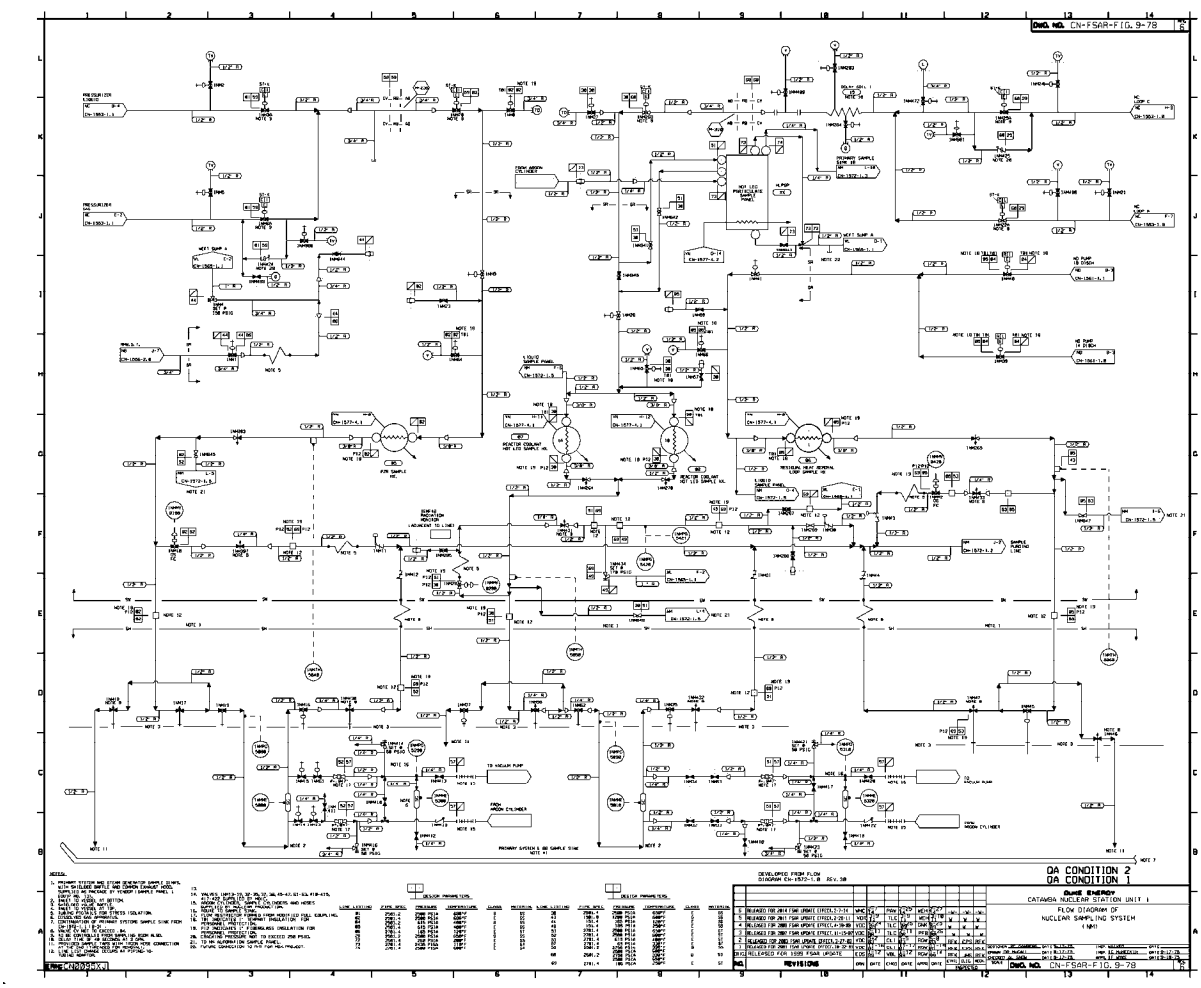

Figure 9-79. Flow Diagram of Nuclear Sampling System

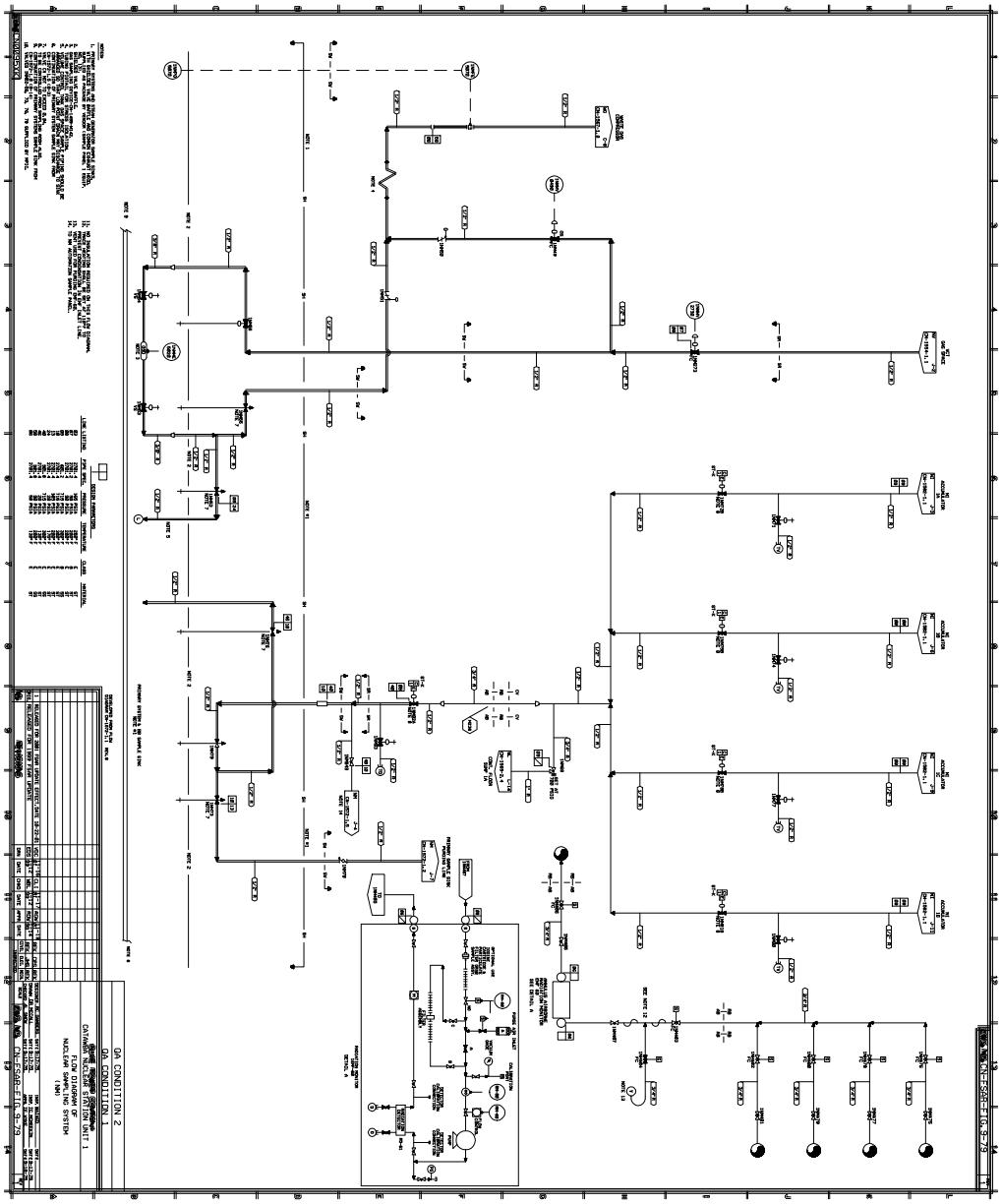

Figure 9-80. Flow Diagram of Nuclear Sampling System

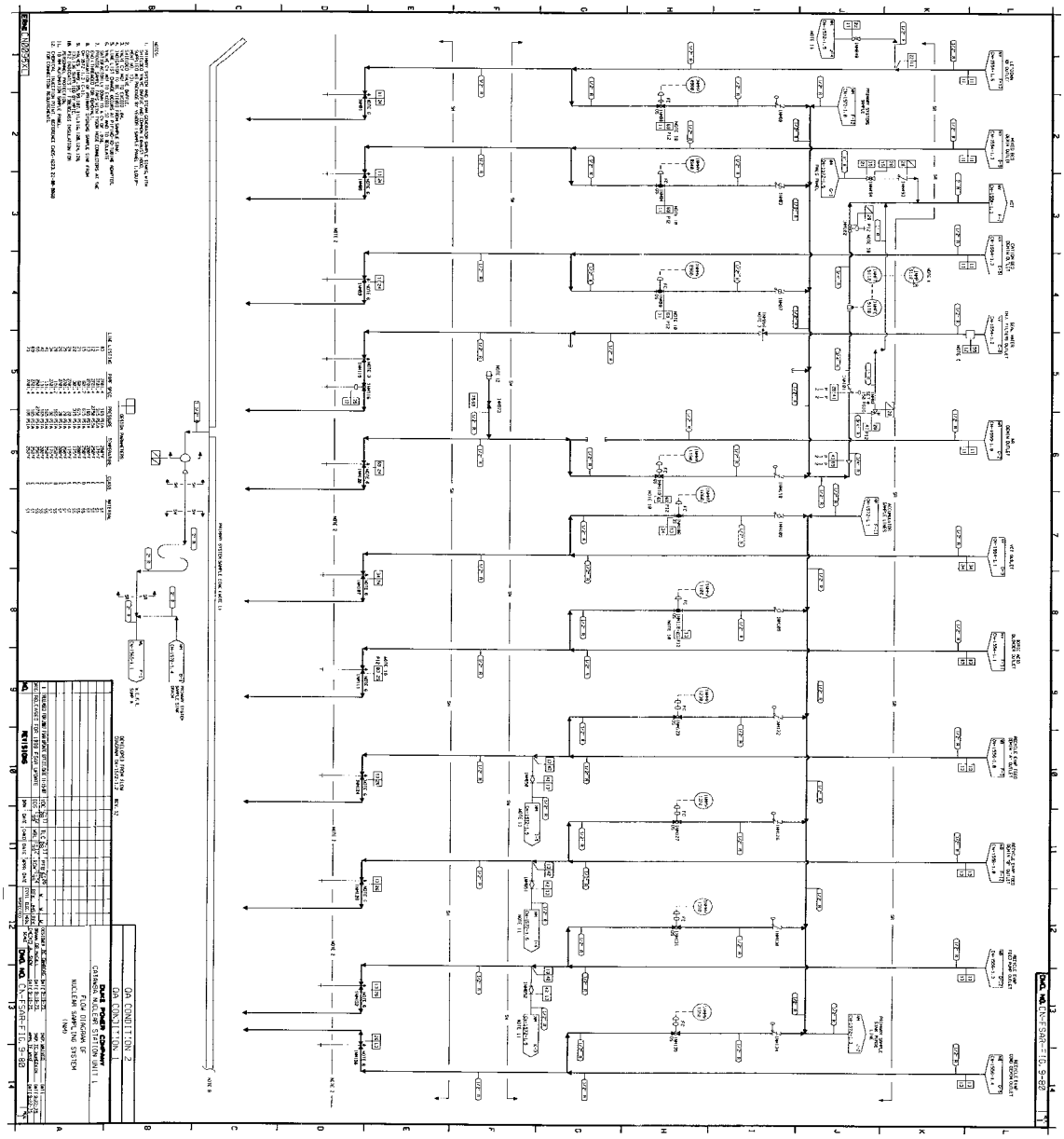

Figure 9-81. Flow Diagram of Nuclear Sampling System

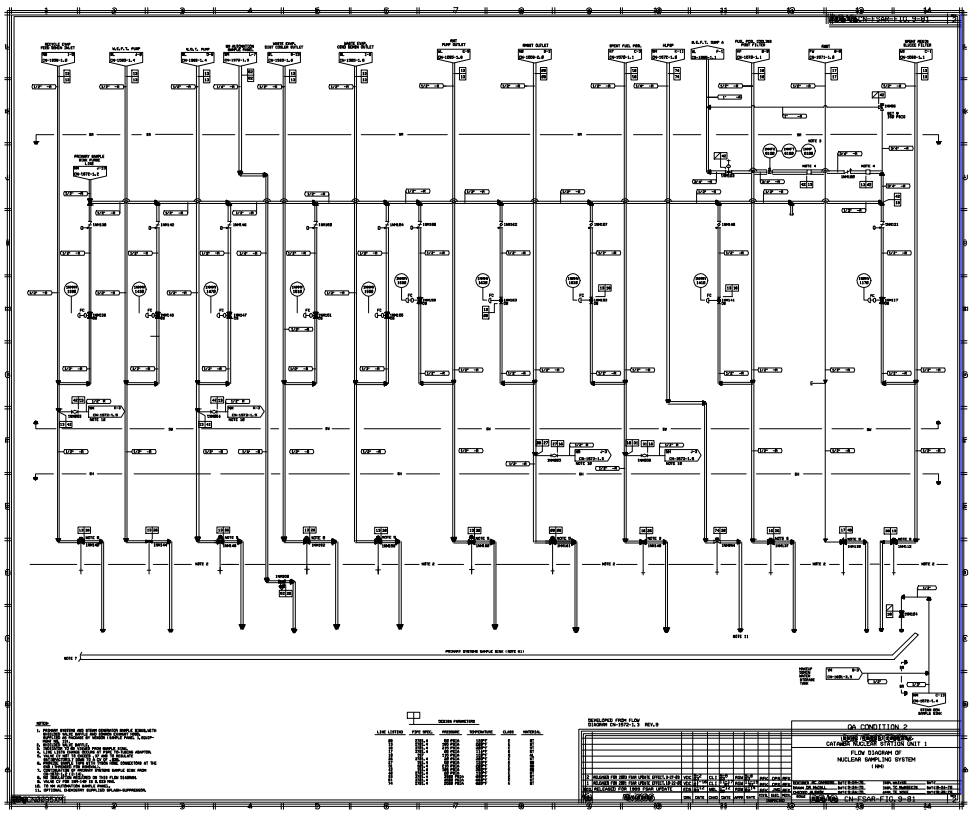

Figure 9-82. Flow Diagram of Nuclear Sampling System

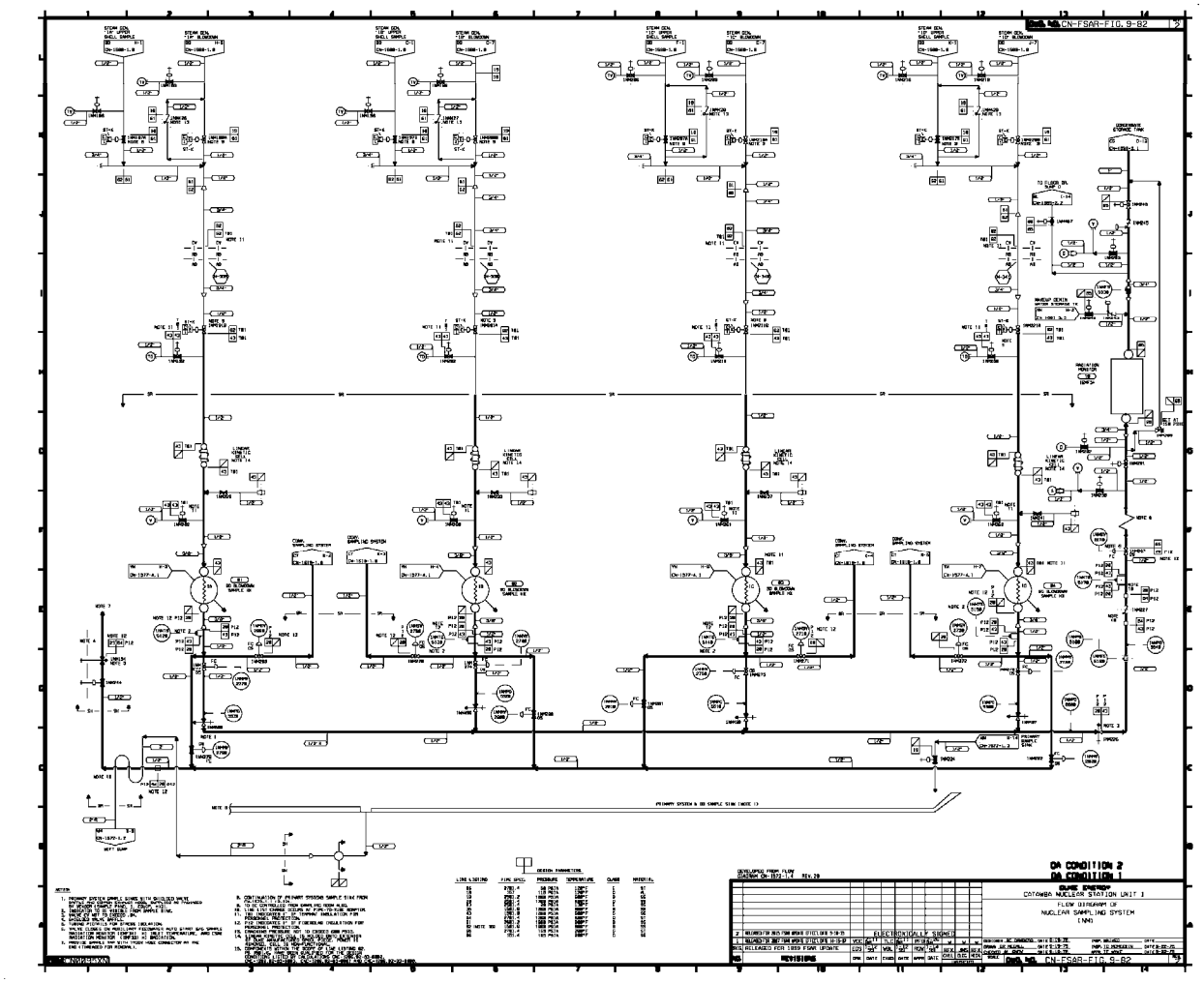

Figure 9-83. Flow Diagram of Conventional Sampling System

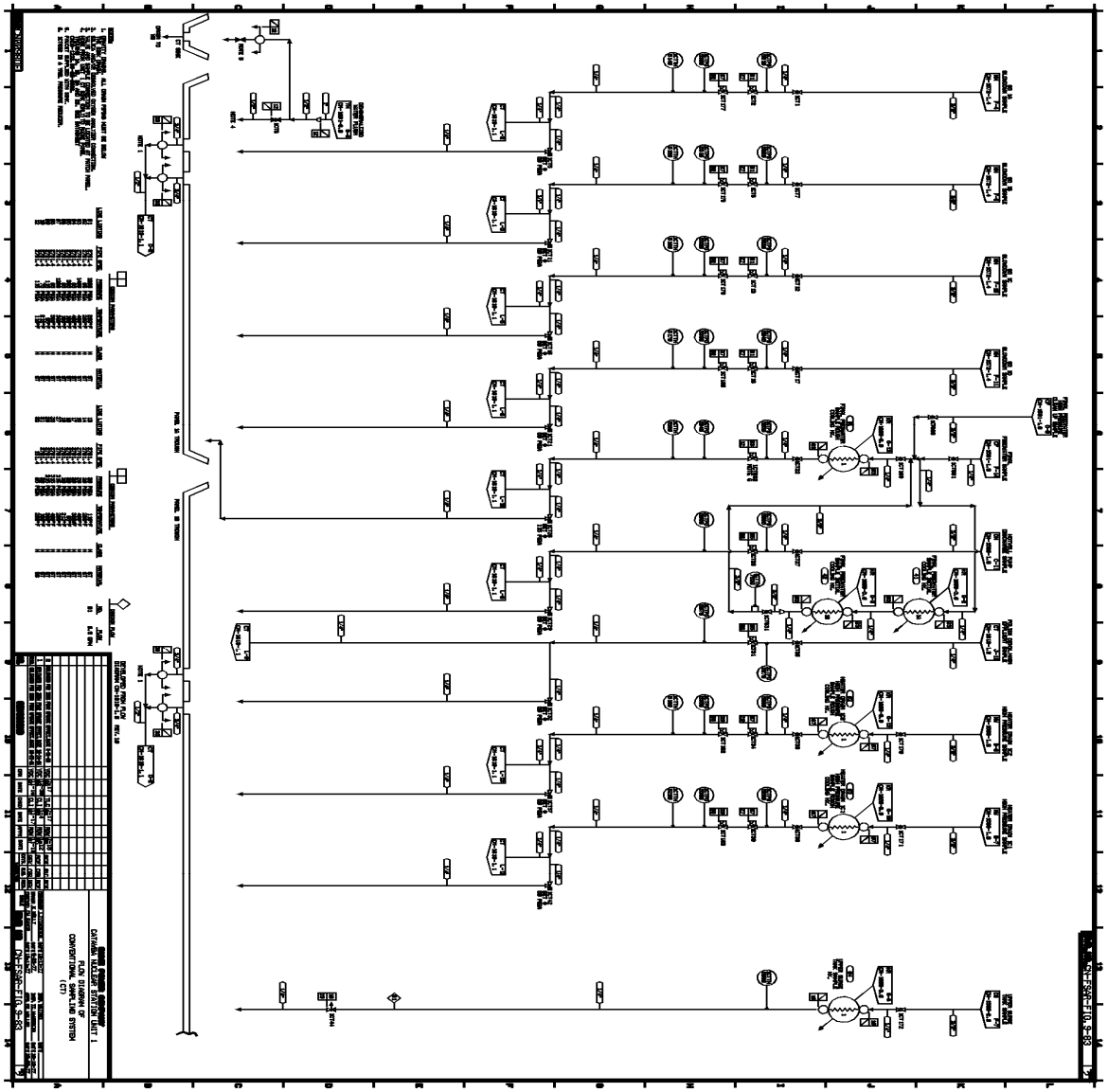

Figure 9-84. Flow Diagram of Conventional Sampling System

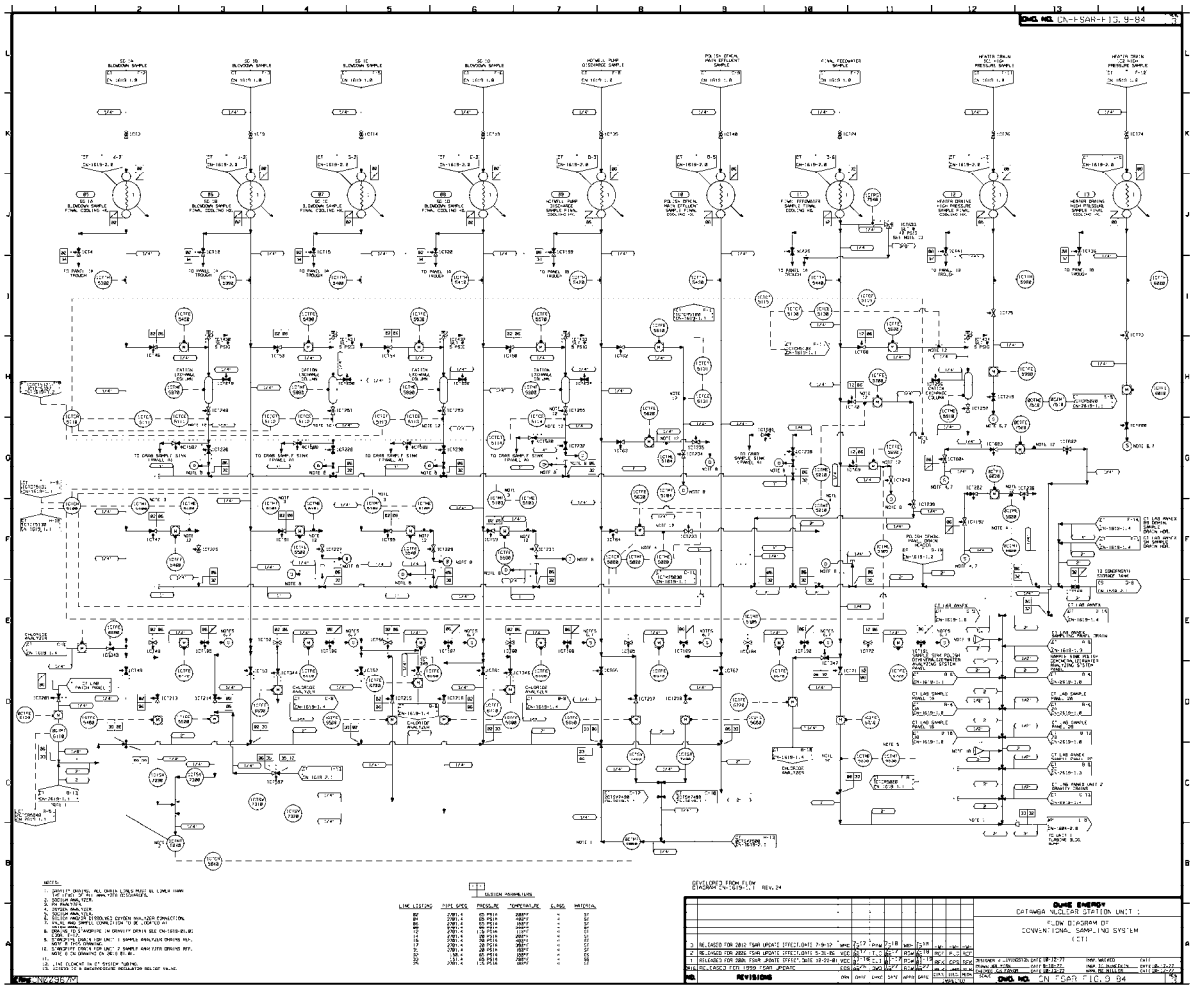

Figure 9-85. Flow Diagram of Conventional Sampling System

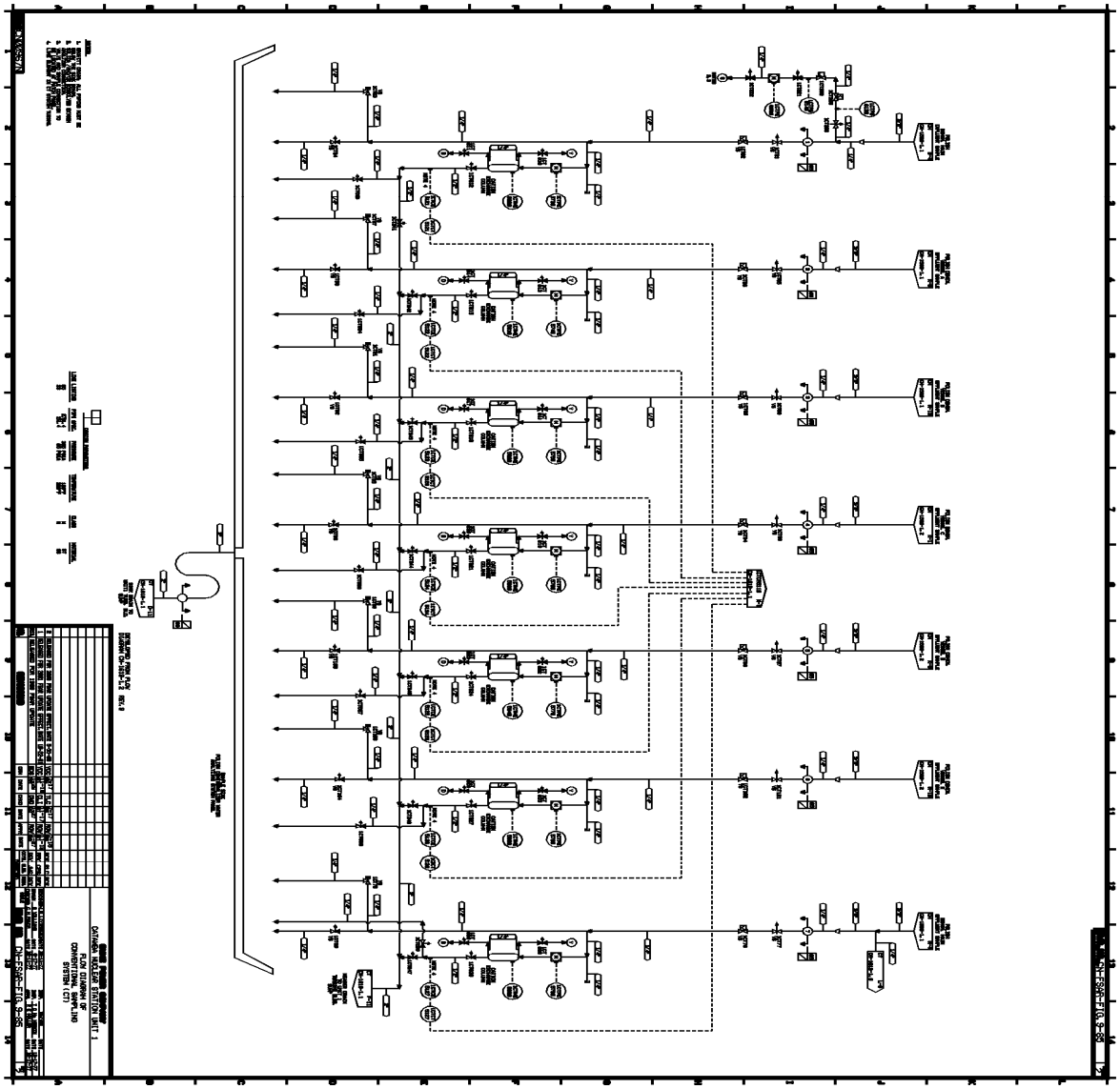

Figure 9-86. Flow Diagram of Conventional Sampling System

This figure is currently unavailable in an electronic format. It can be located in a hardcopy version of the FSAR.

Figure 9-87. Flow Diagram of Conventional Sampling System

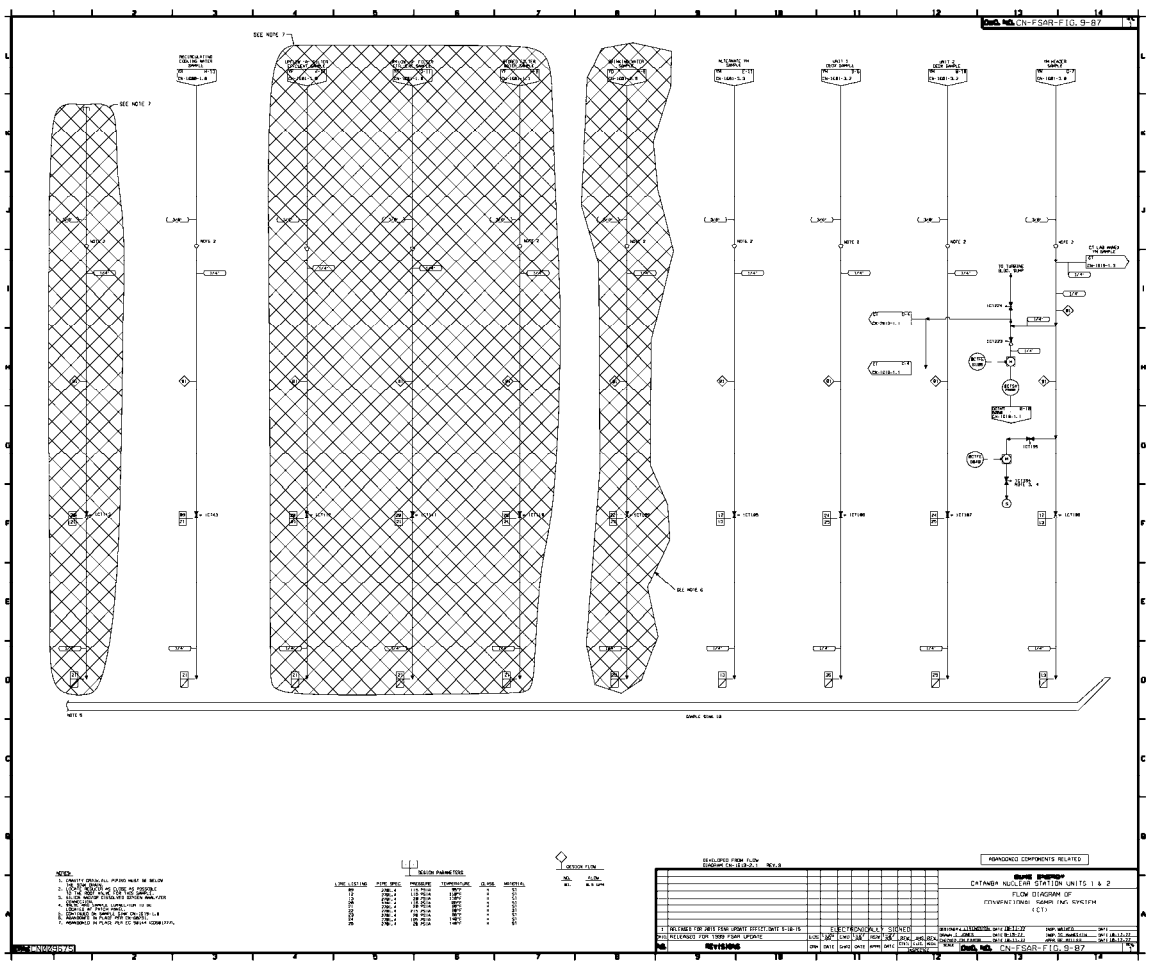

Figure 9-88. Deleted Per 2000 Update.

Figure 9-89. Flow Diagram of Chemical and Volume Control System

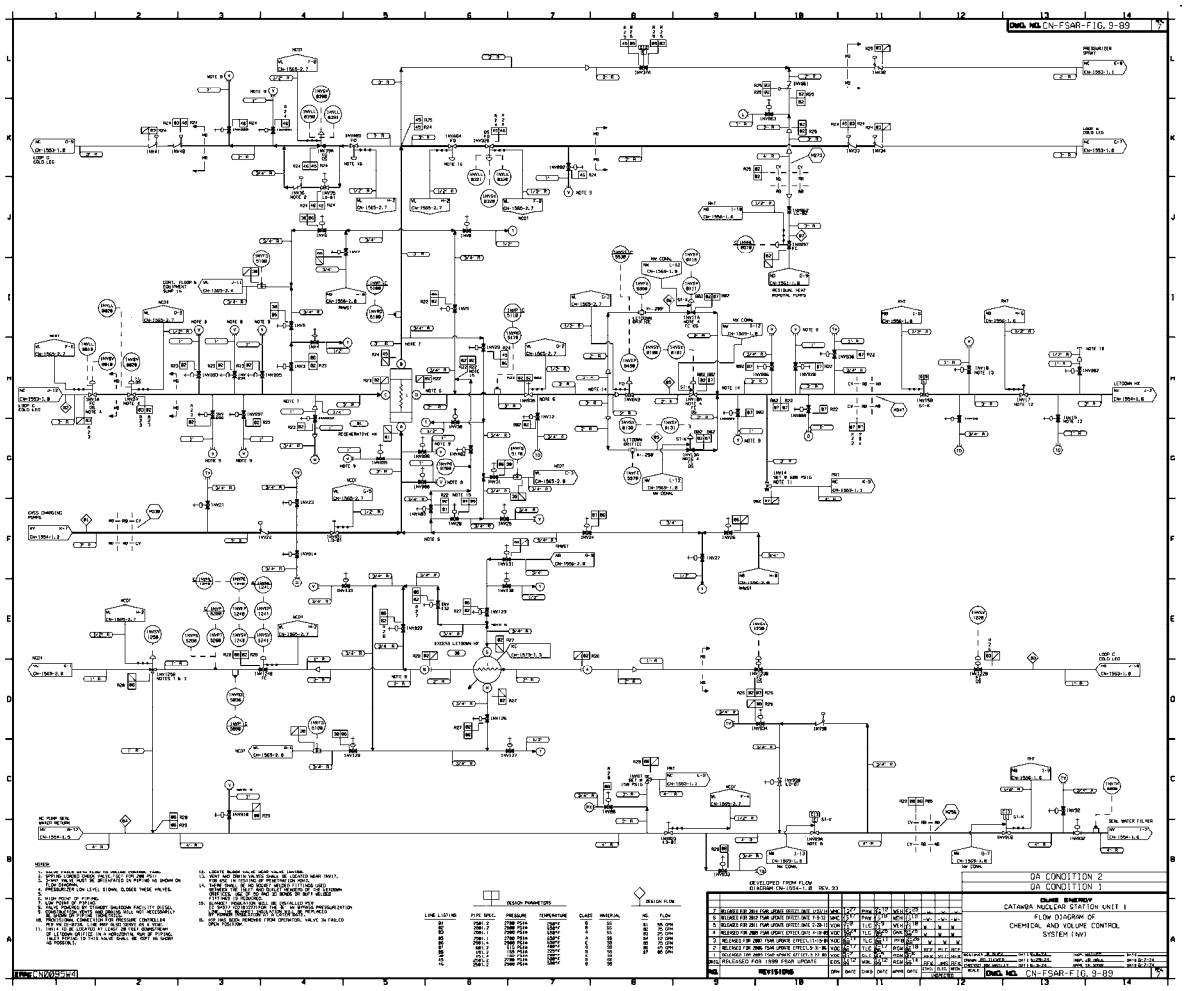

Figure 9-90. Flow Diagram of Chemical and Volume Control System

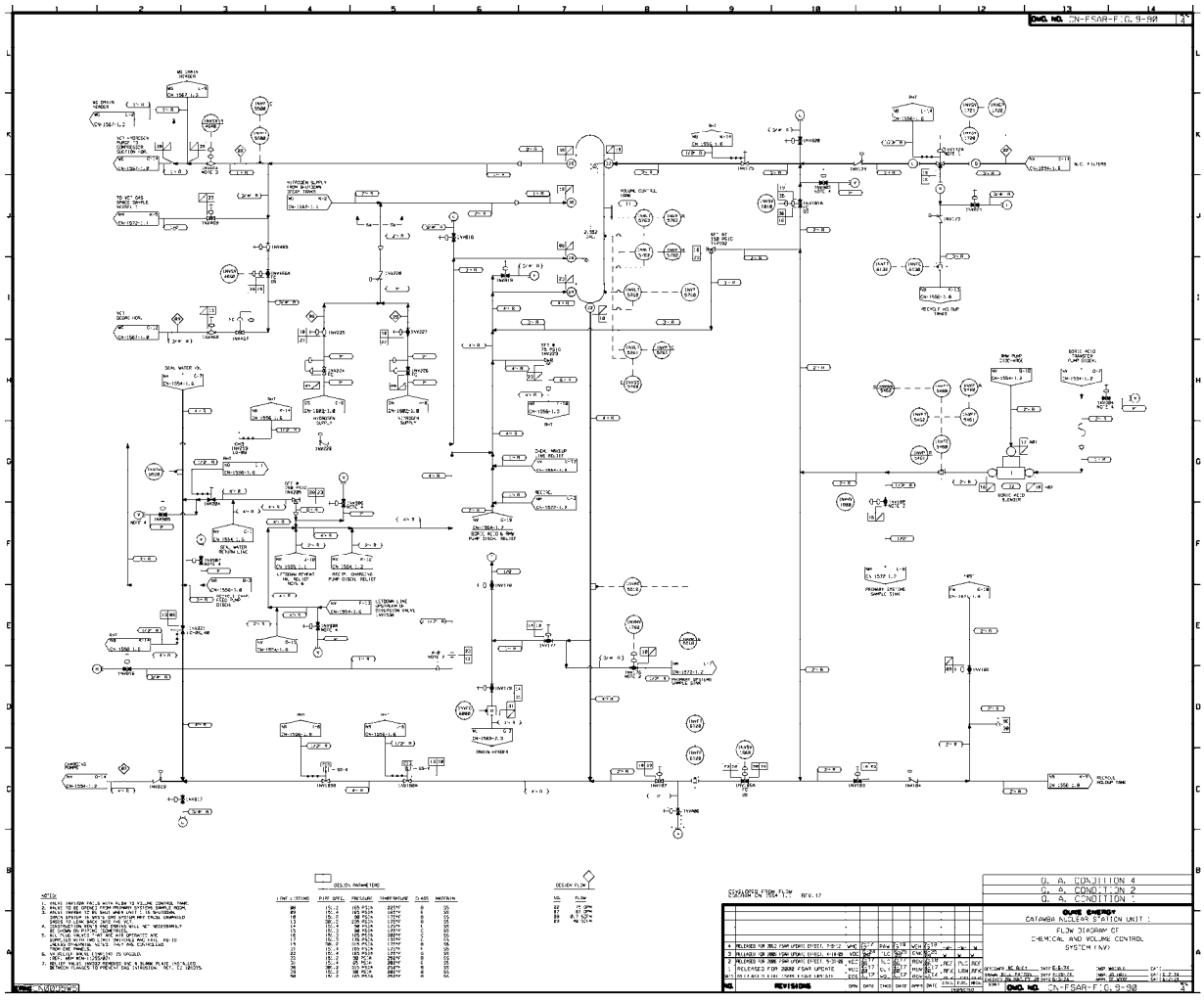

Figure 9-91. Flow Diagram of Chemical and Volume Control System

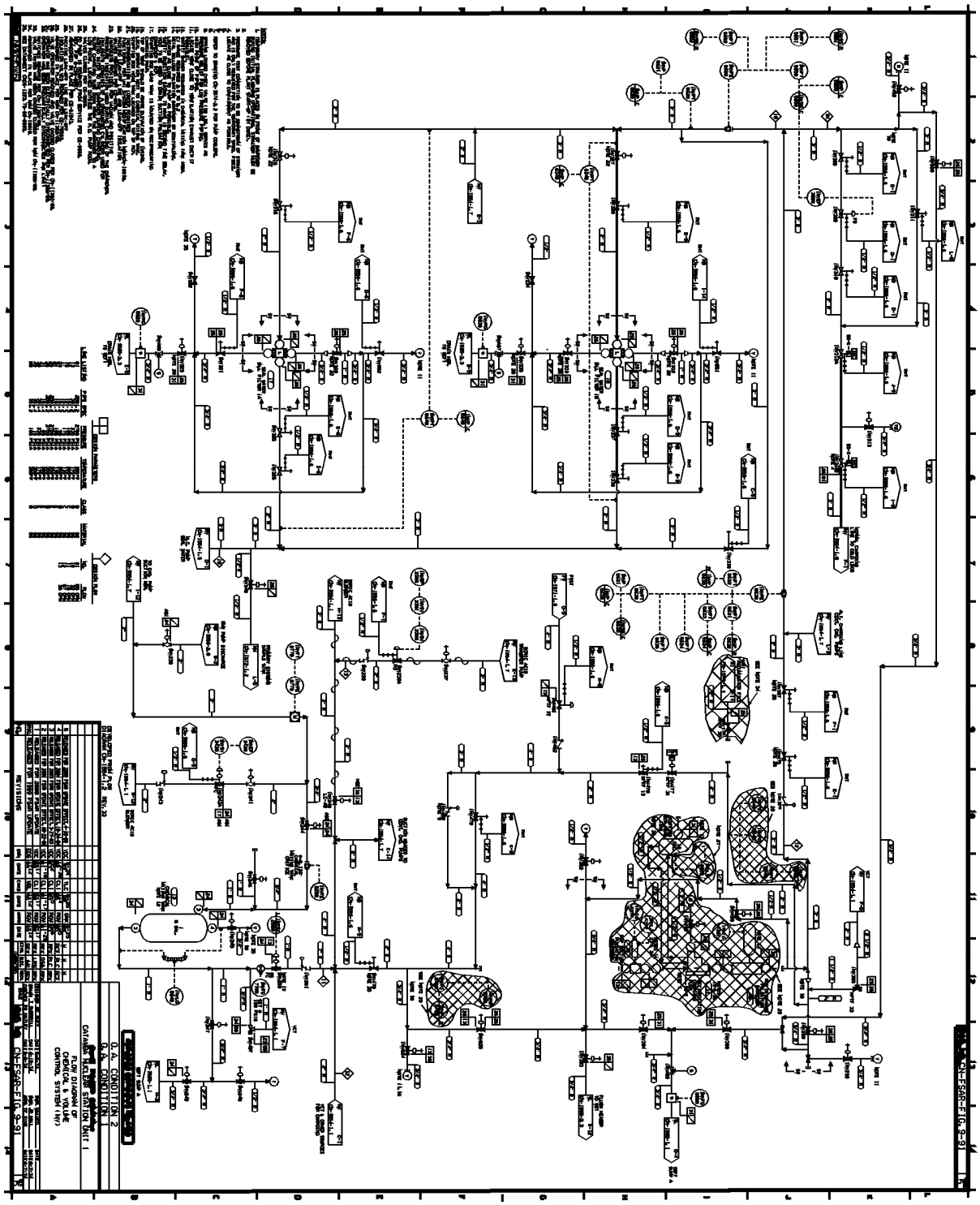

Figure 9-92. Flow Diagram of Chemical and Volume Control System

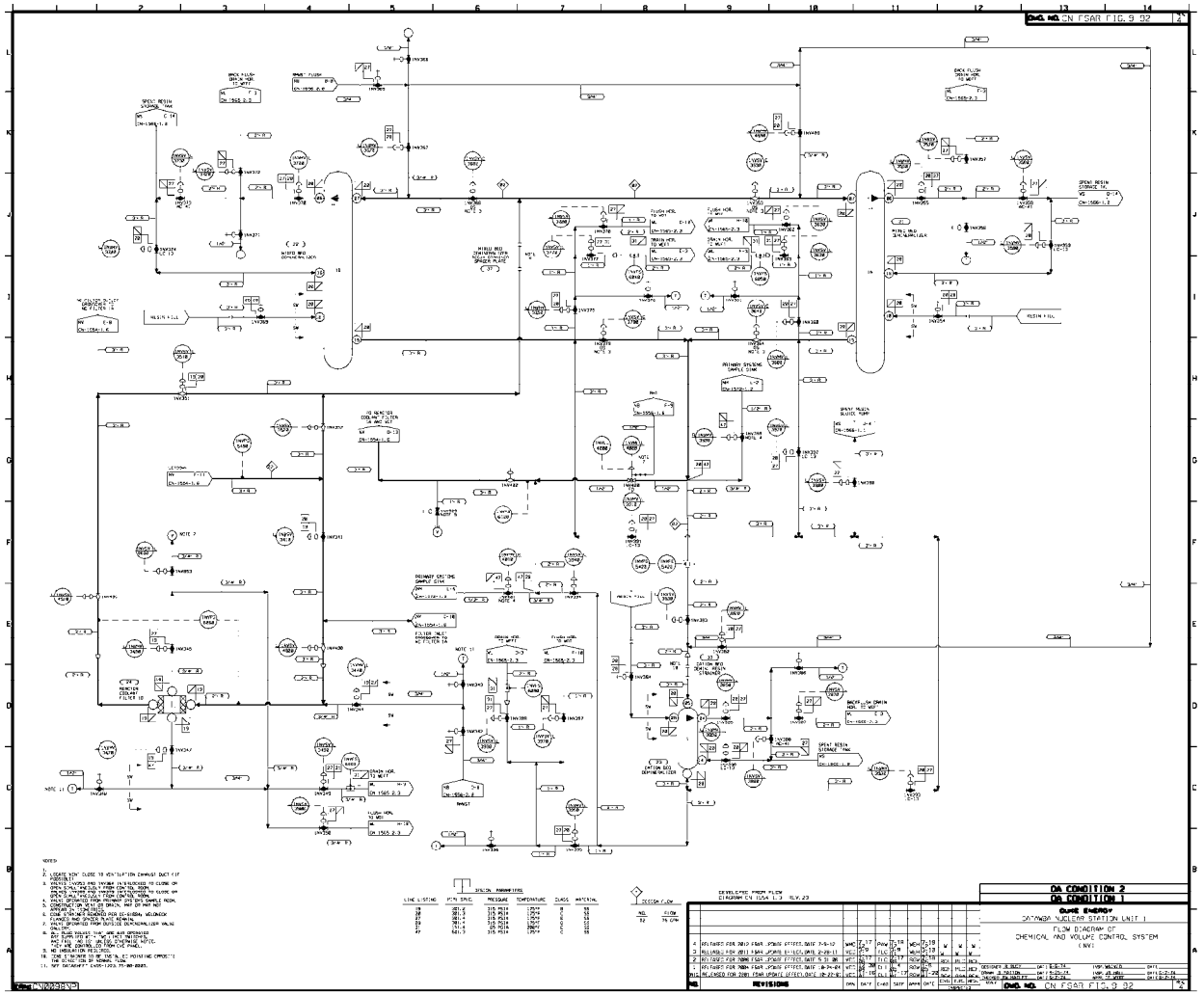

Figure 9-93. Flow Diagram of Chemical and Volume Control System

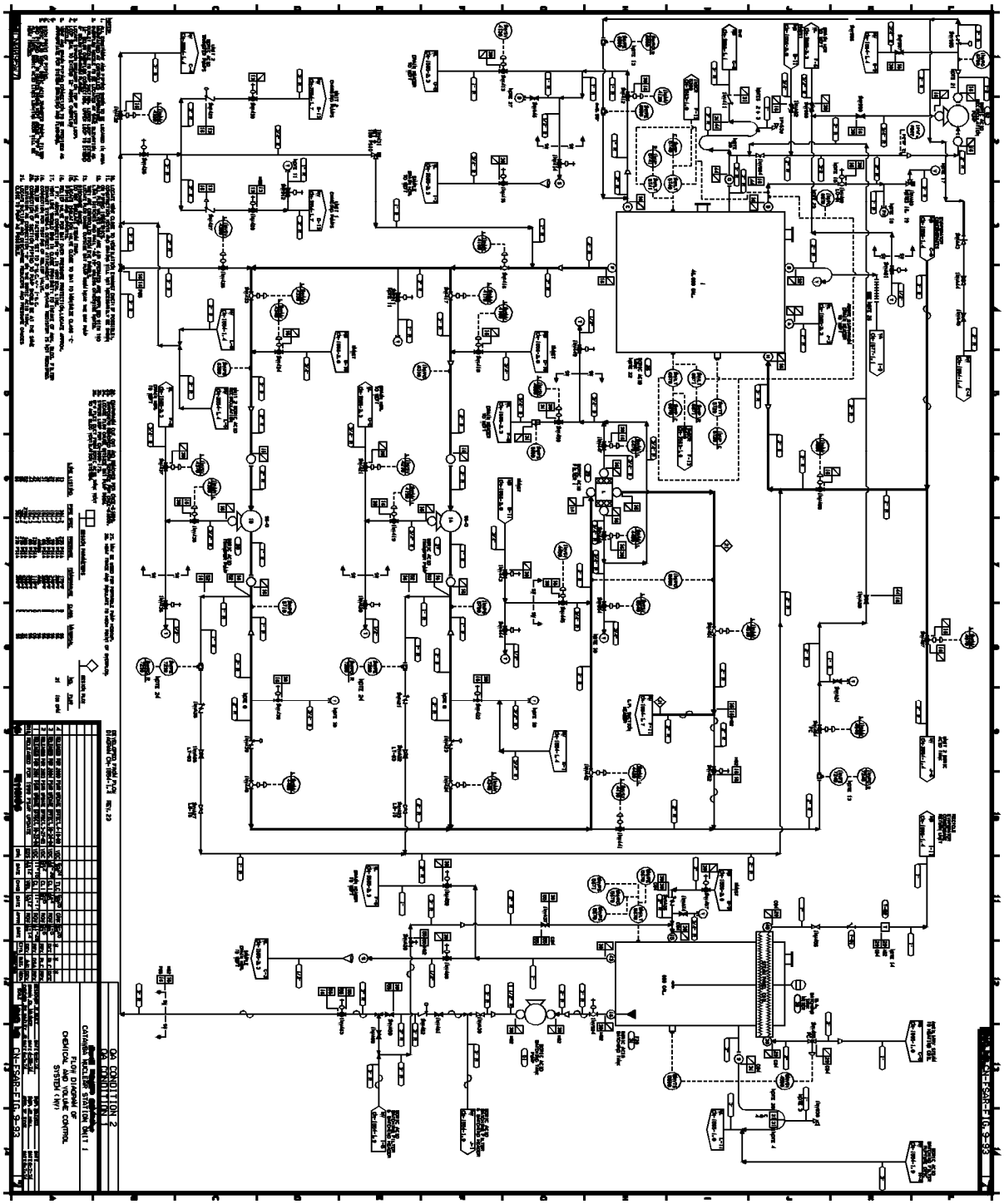

Figure 9-94. Flow Diagram of Chemical and Volume Control System

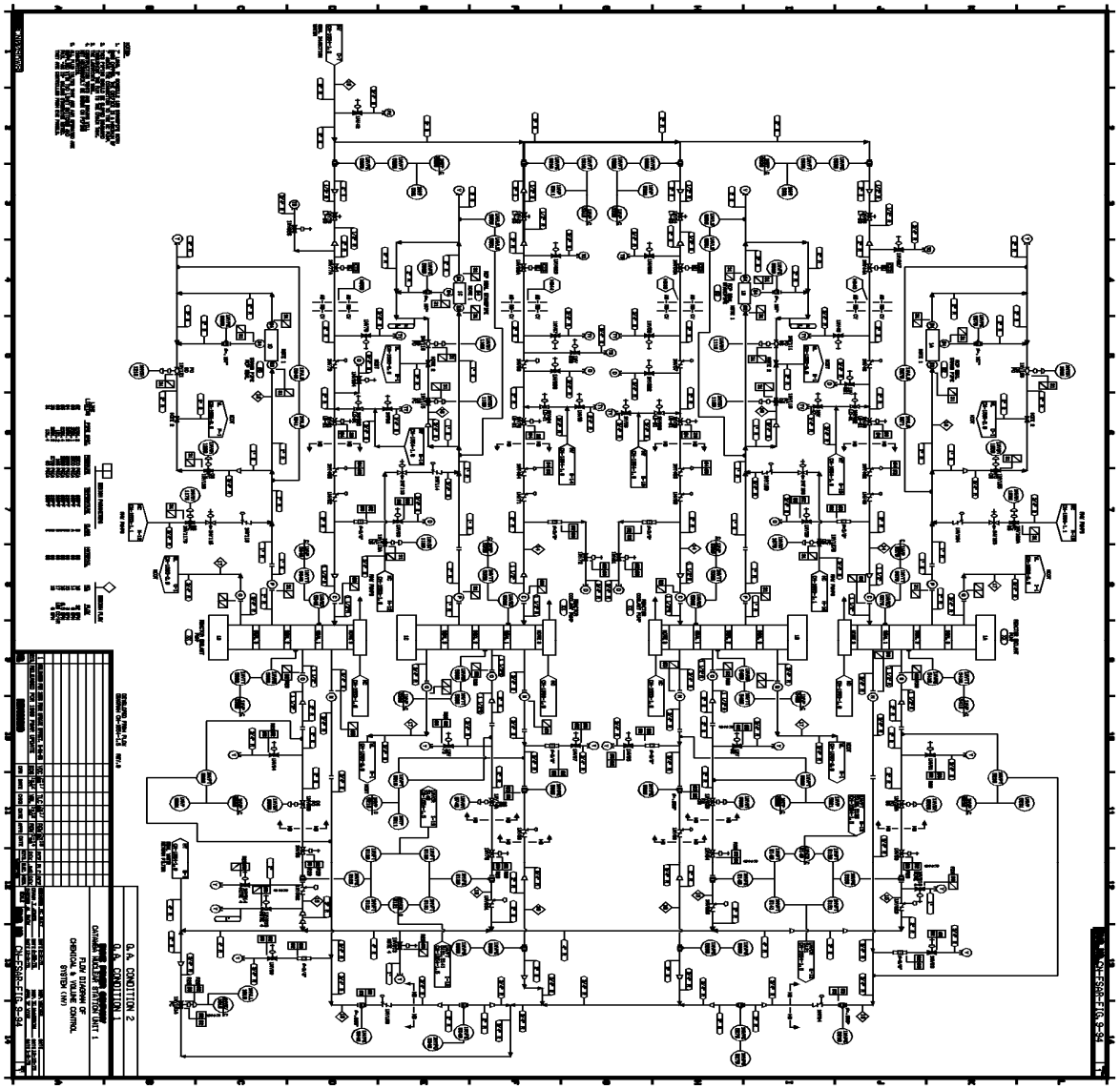

Figure 9-95. Flow Diagram of Chemical and Volume Control System

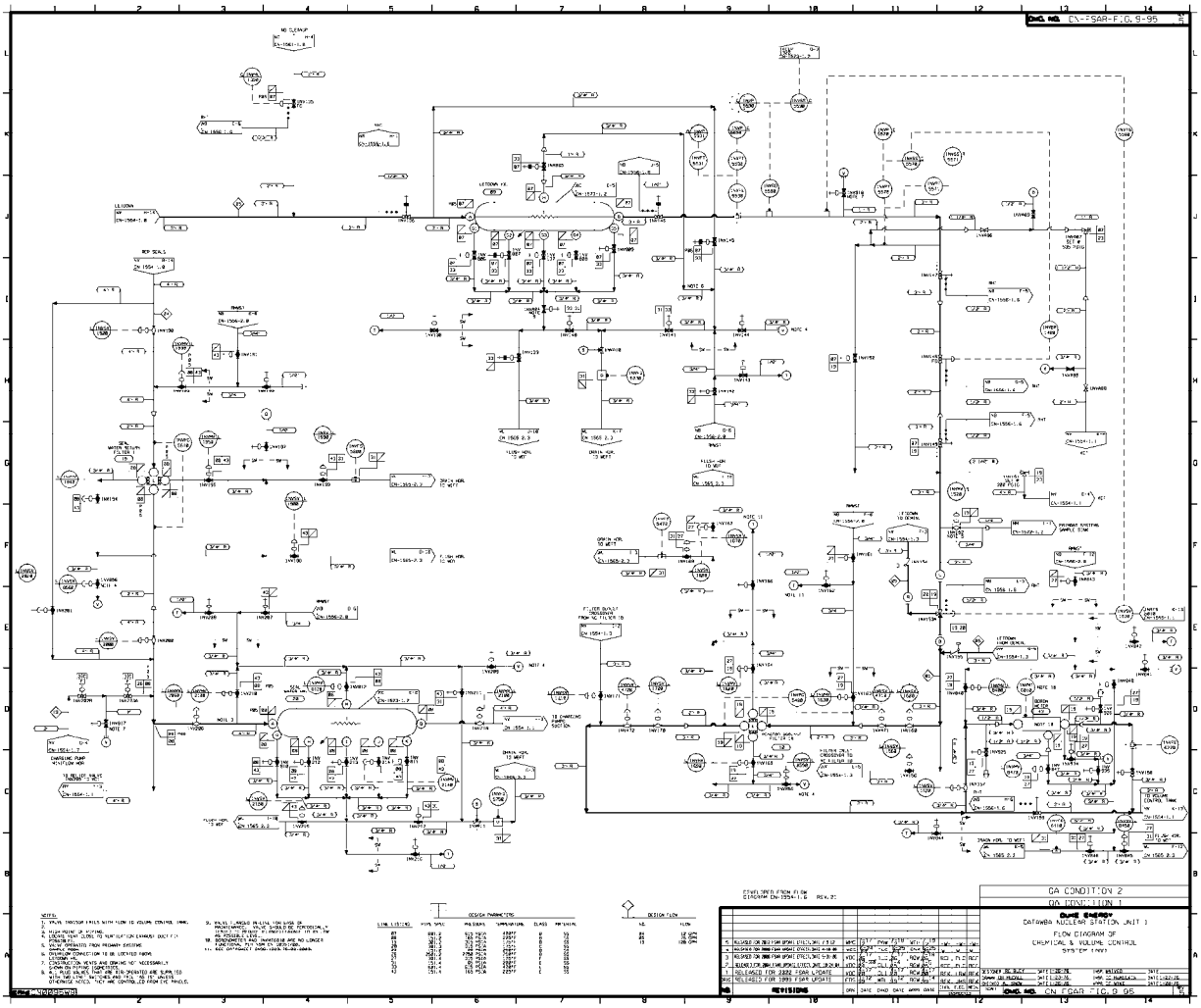

Figure 9-96. Flow Diagram of Chemical and Volume Control System

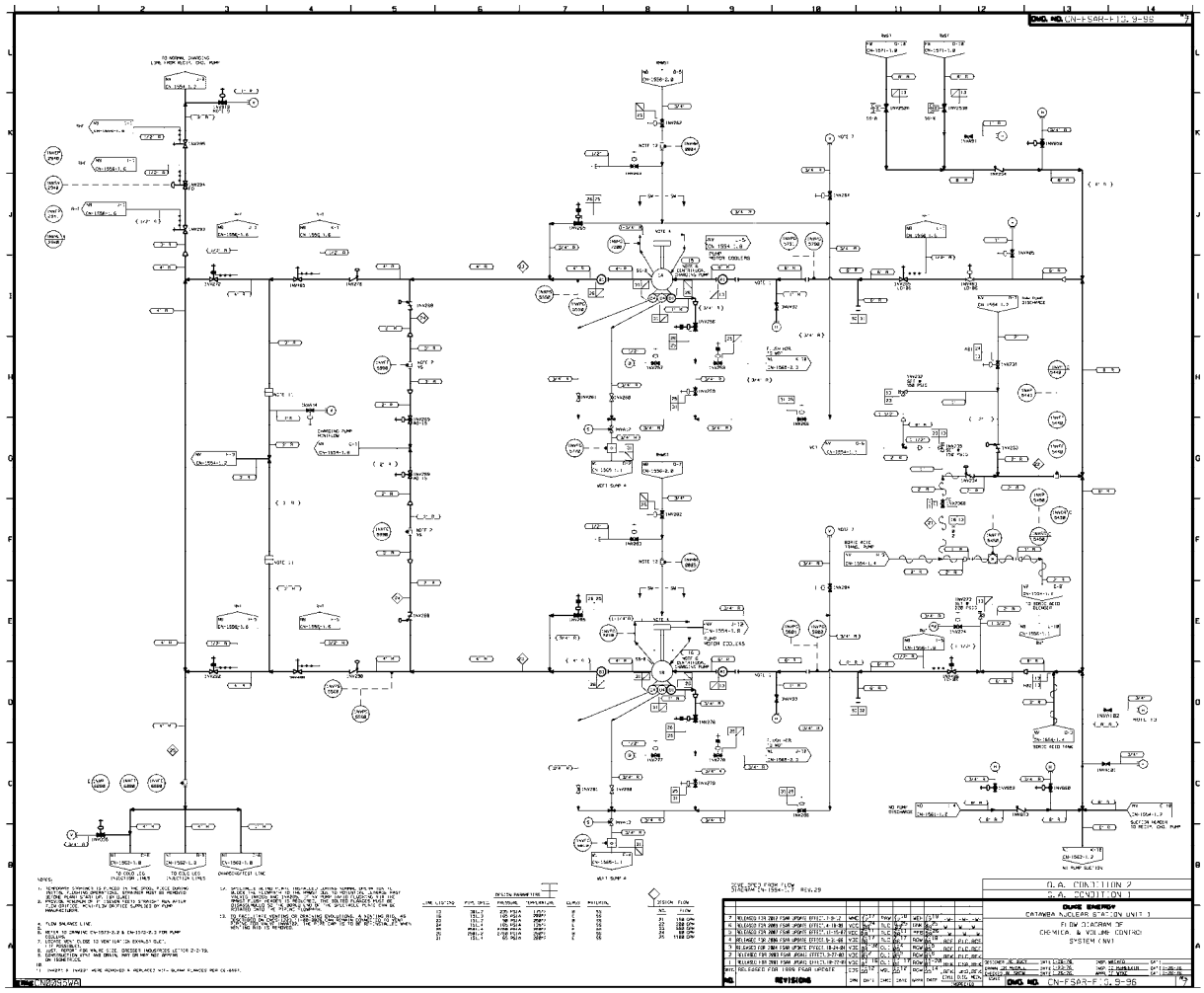

Figure 9-97. Flow Diagram of Chemical and Volume Control System

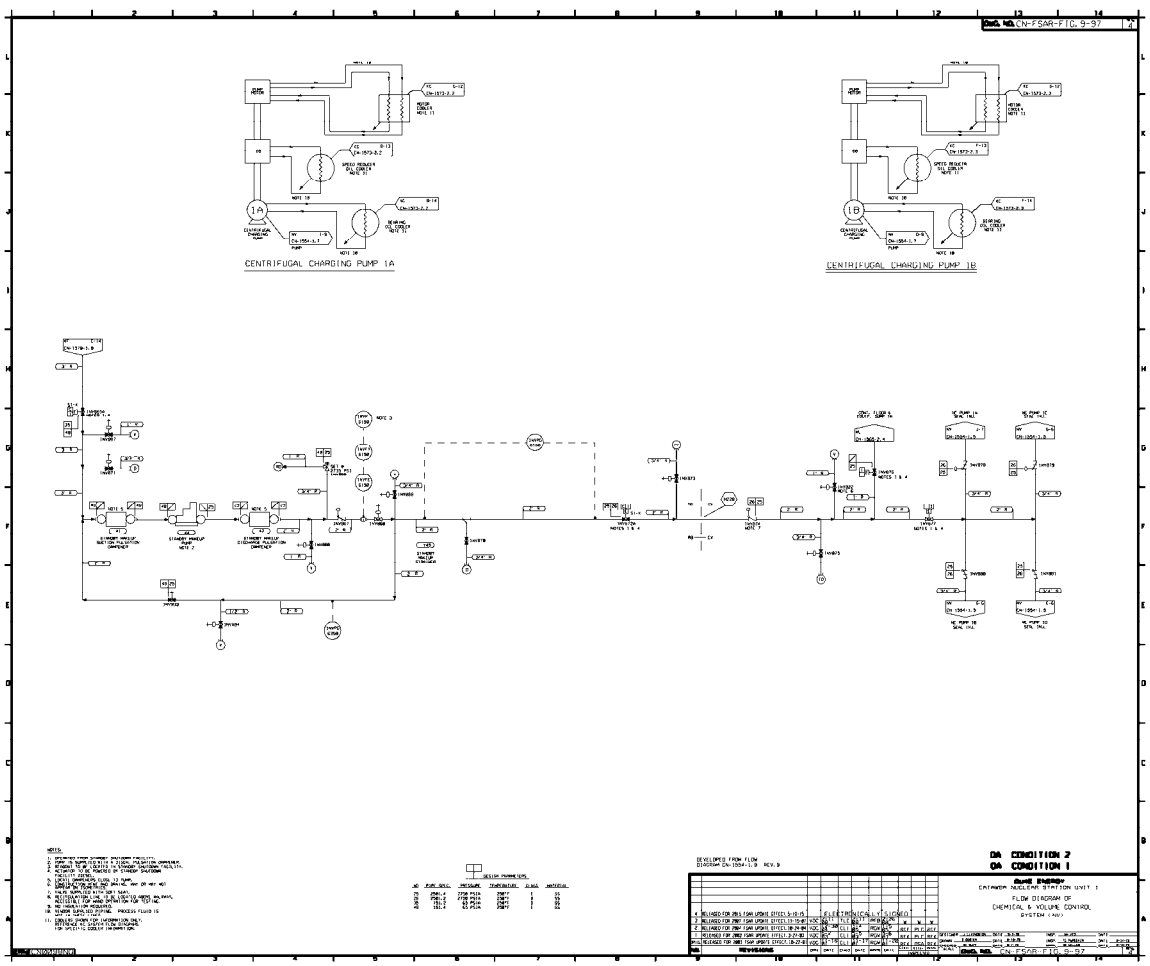

Figure 9-98. Flow Diagram of Boron Recycle System

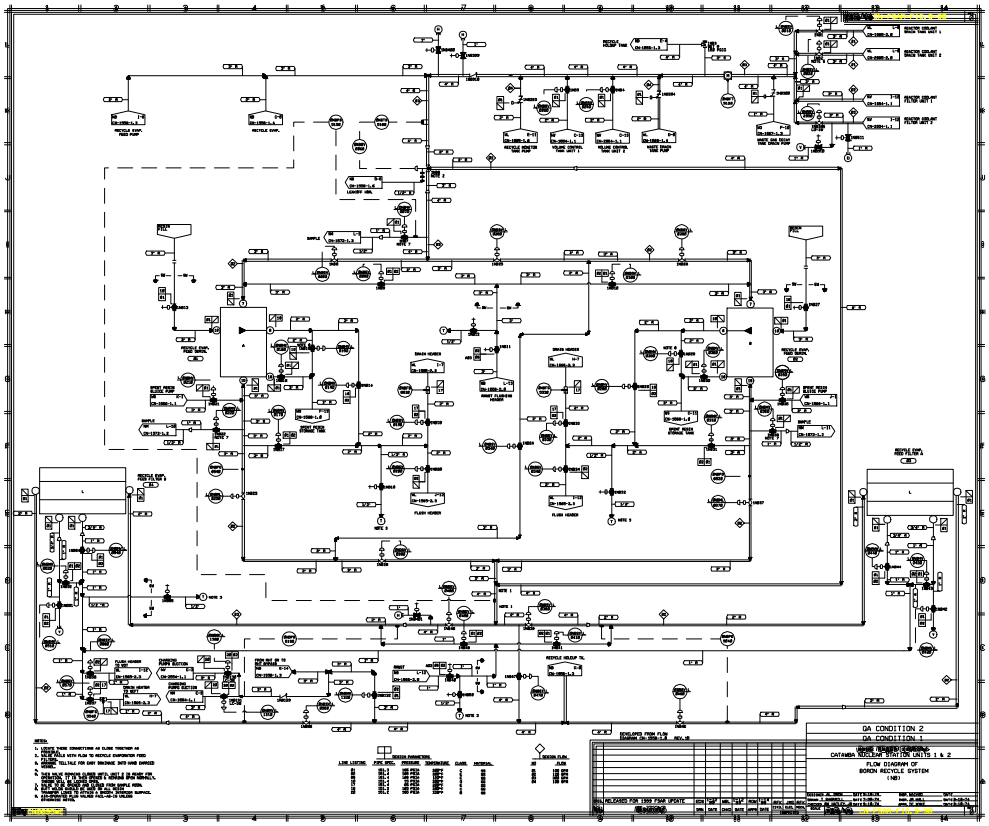

Figure 9-99. Flow Diagram of Boron Recycle System

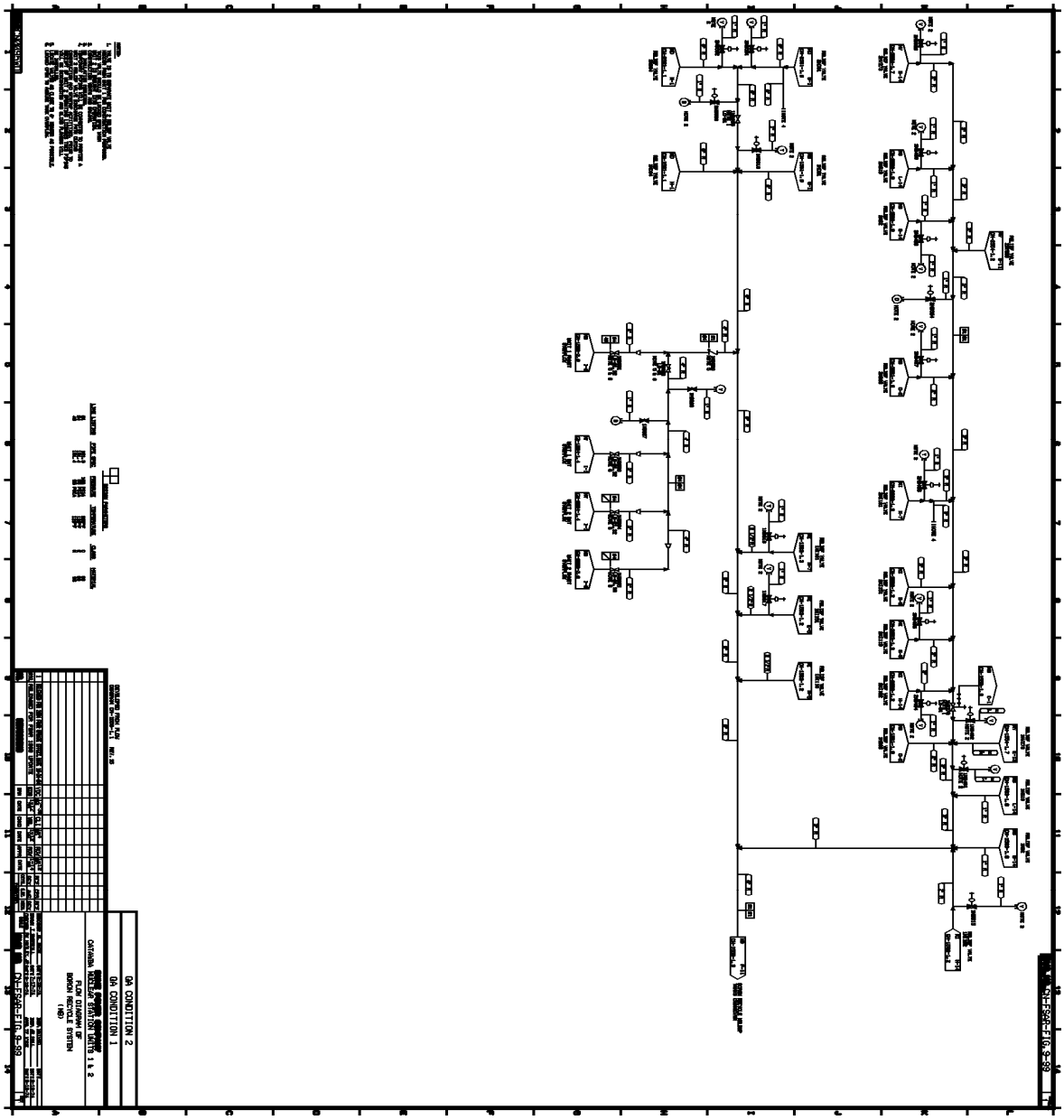

Figure 9-100. Flow Diagram of Boron Recycle System

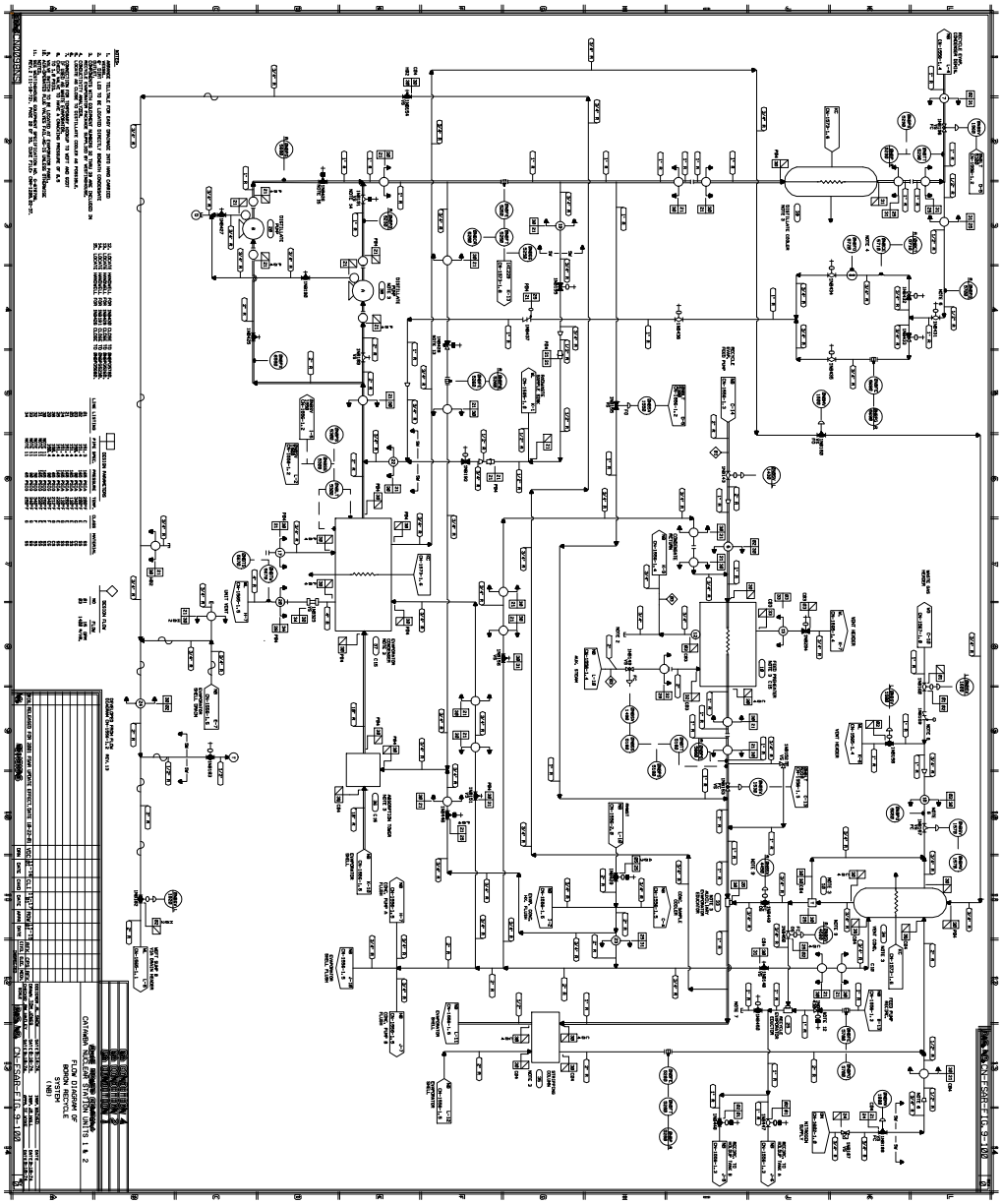

Figure 9-101. Flow Diagram of Boron Recycle System

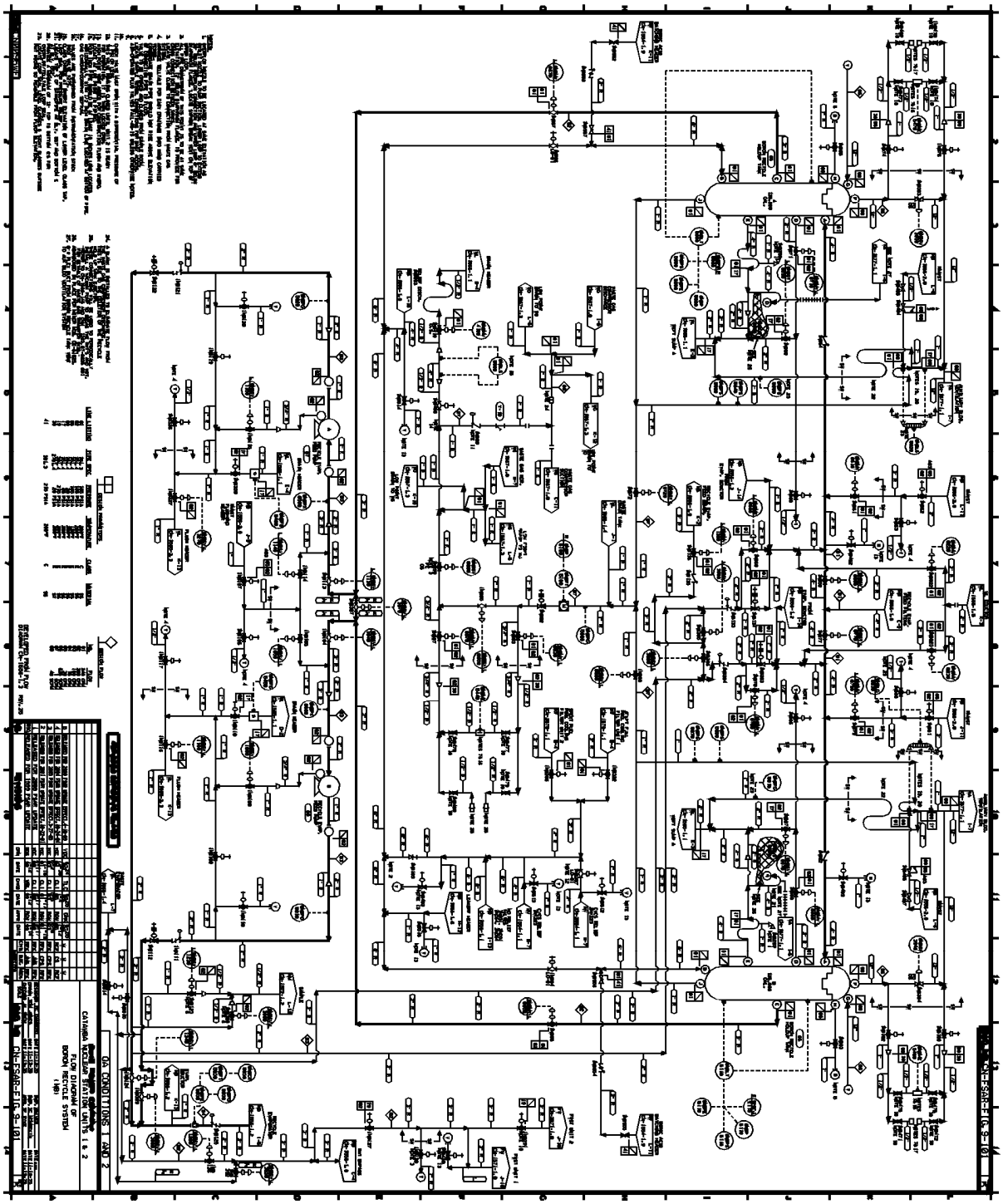

Figure 9-102. Flow Diagram of Boron Recycle System

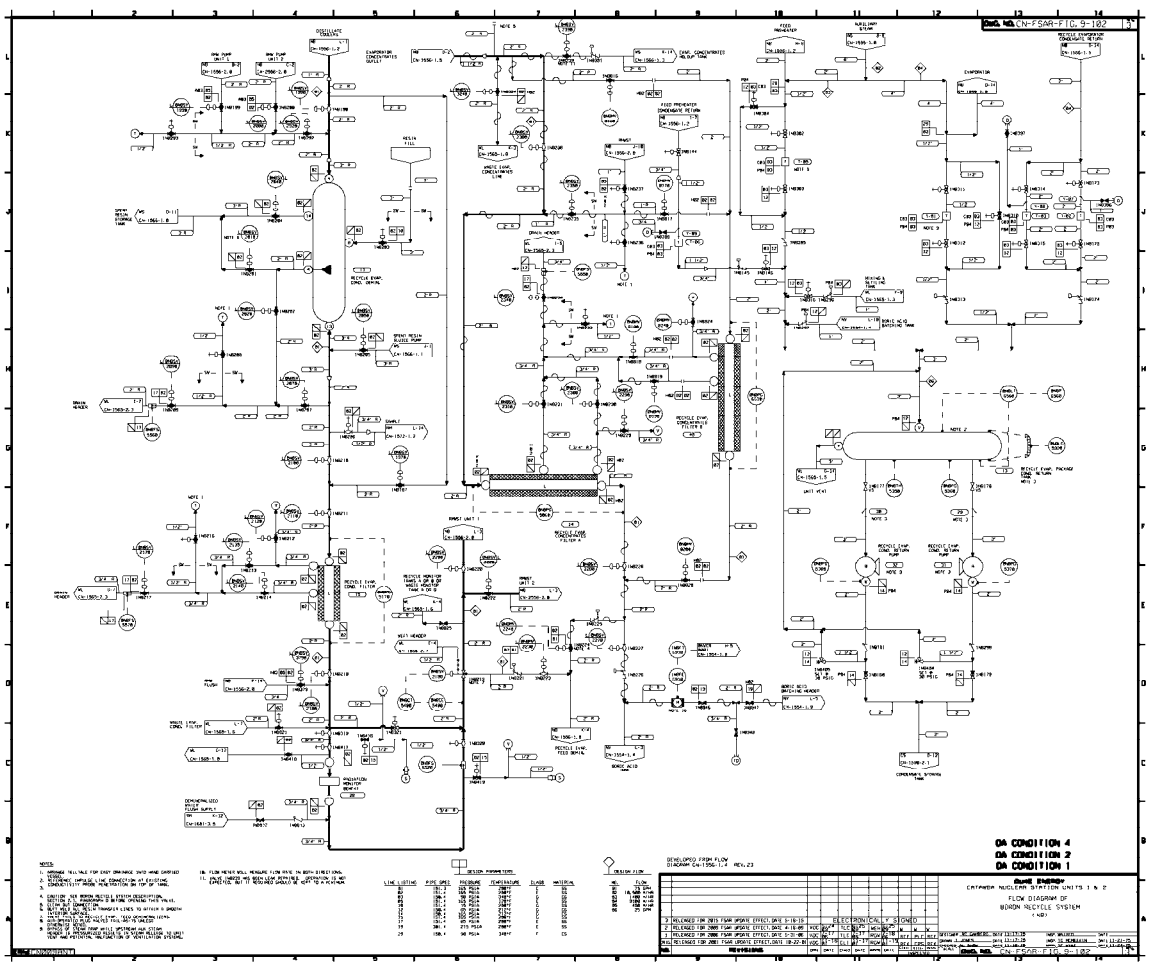

Figure 9-103. Flow Diagram of Boron Recycle System

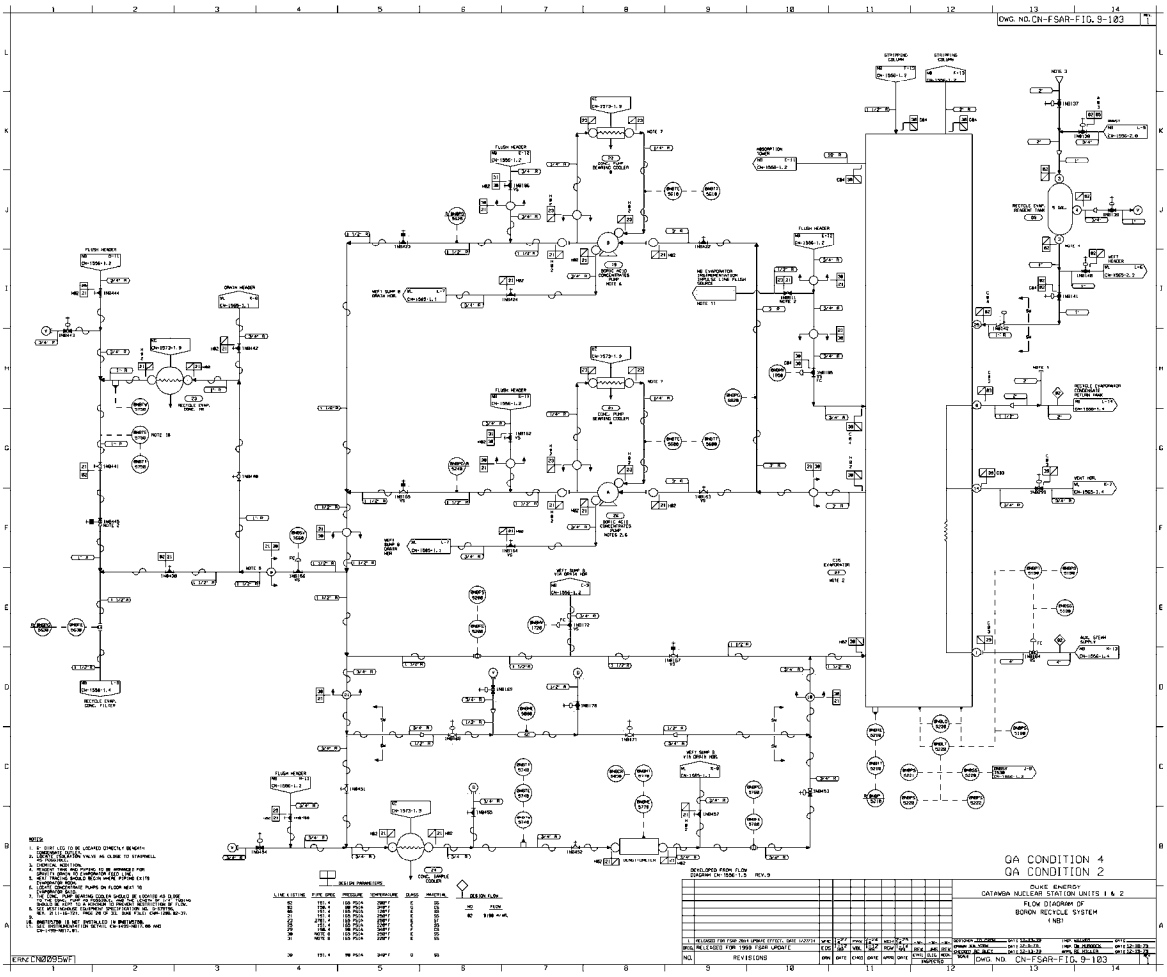

Figure 9-104. Flow Diagram of Boron Recycle System

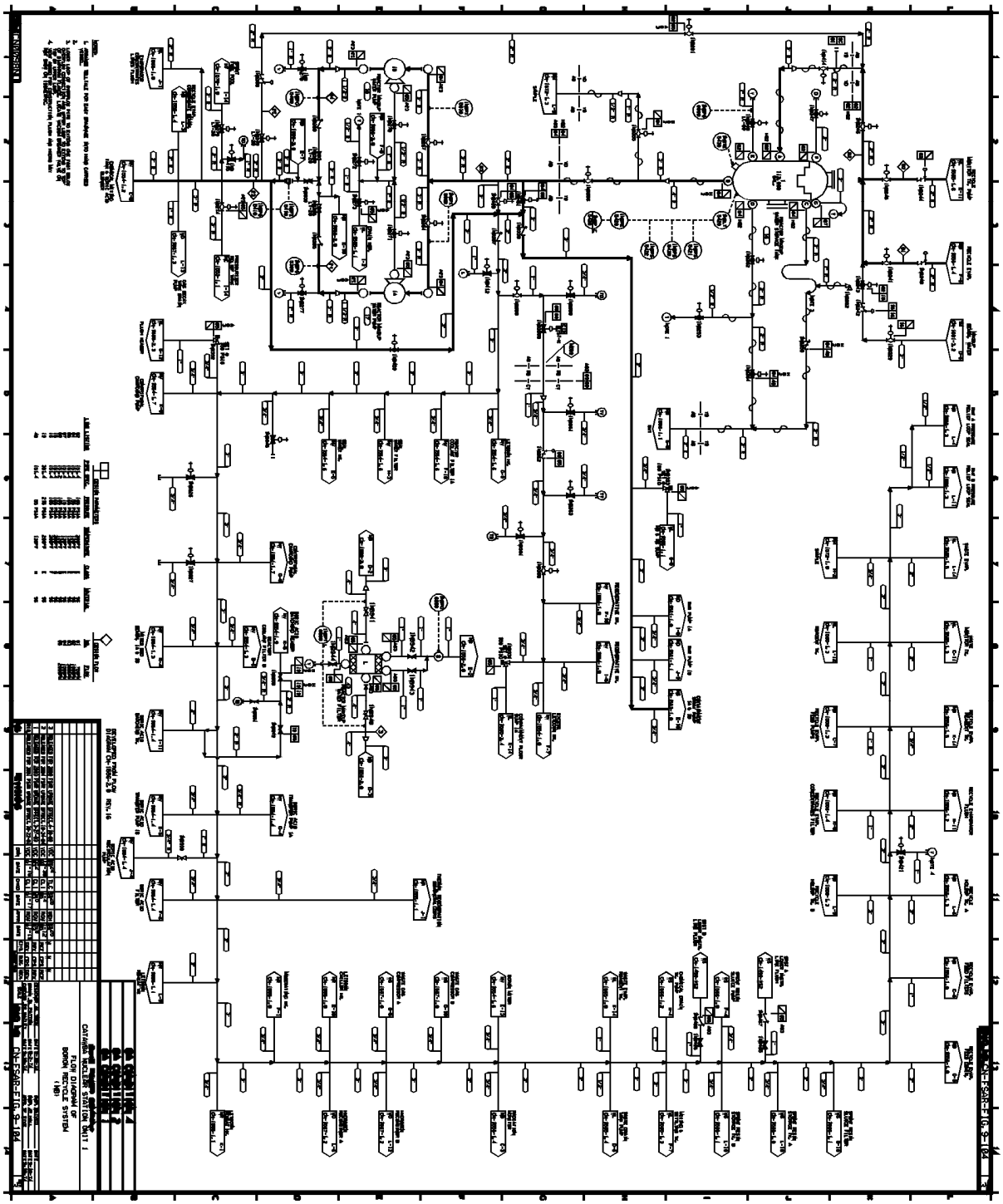

Figure 9-105. Flow Diagram of Boron Recycle System

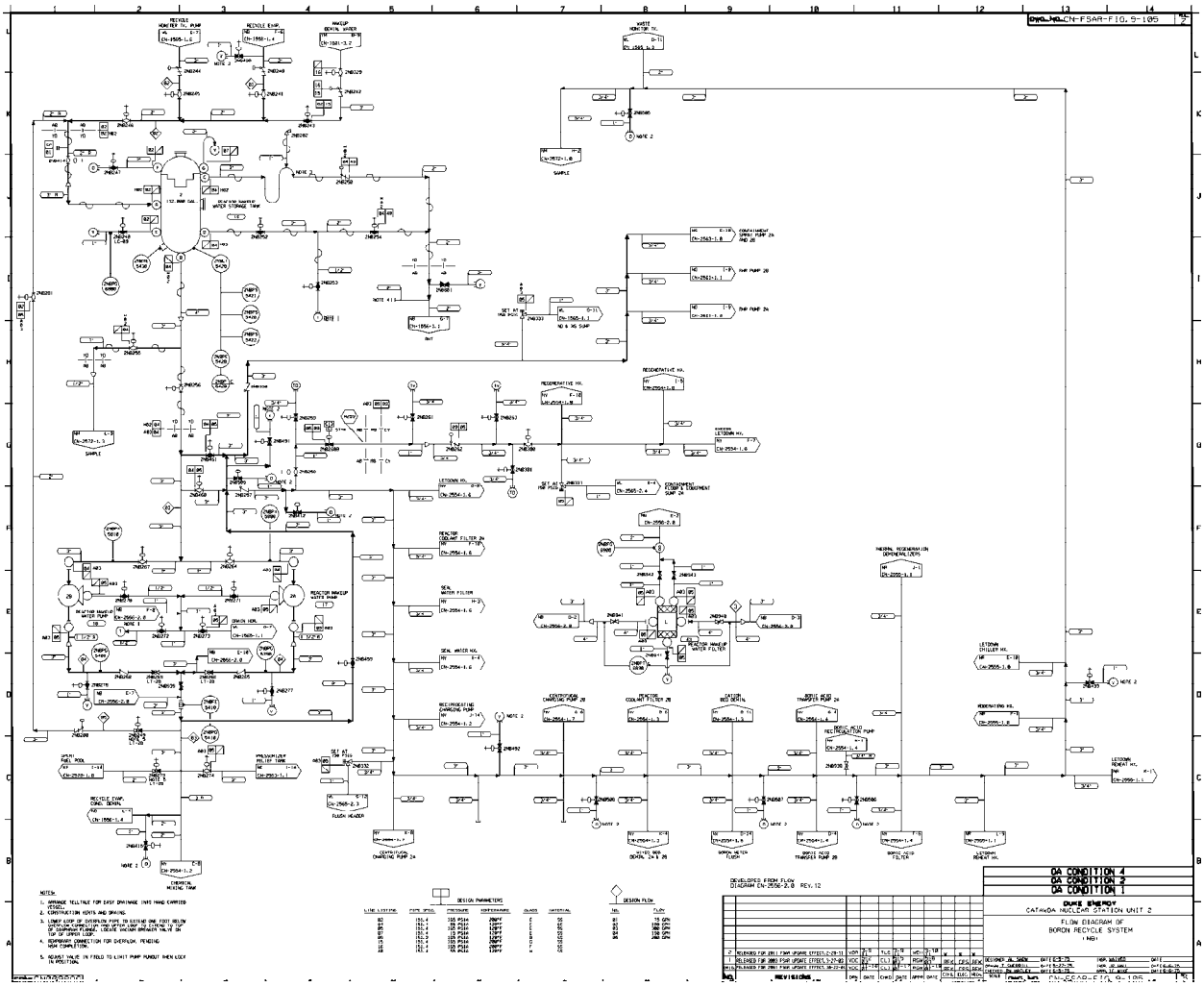

Figure 9-106. Flow Diagram of Boron Thermal Regeneration System

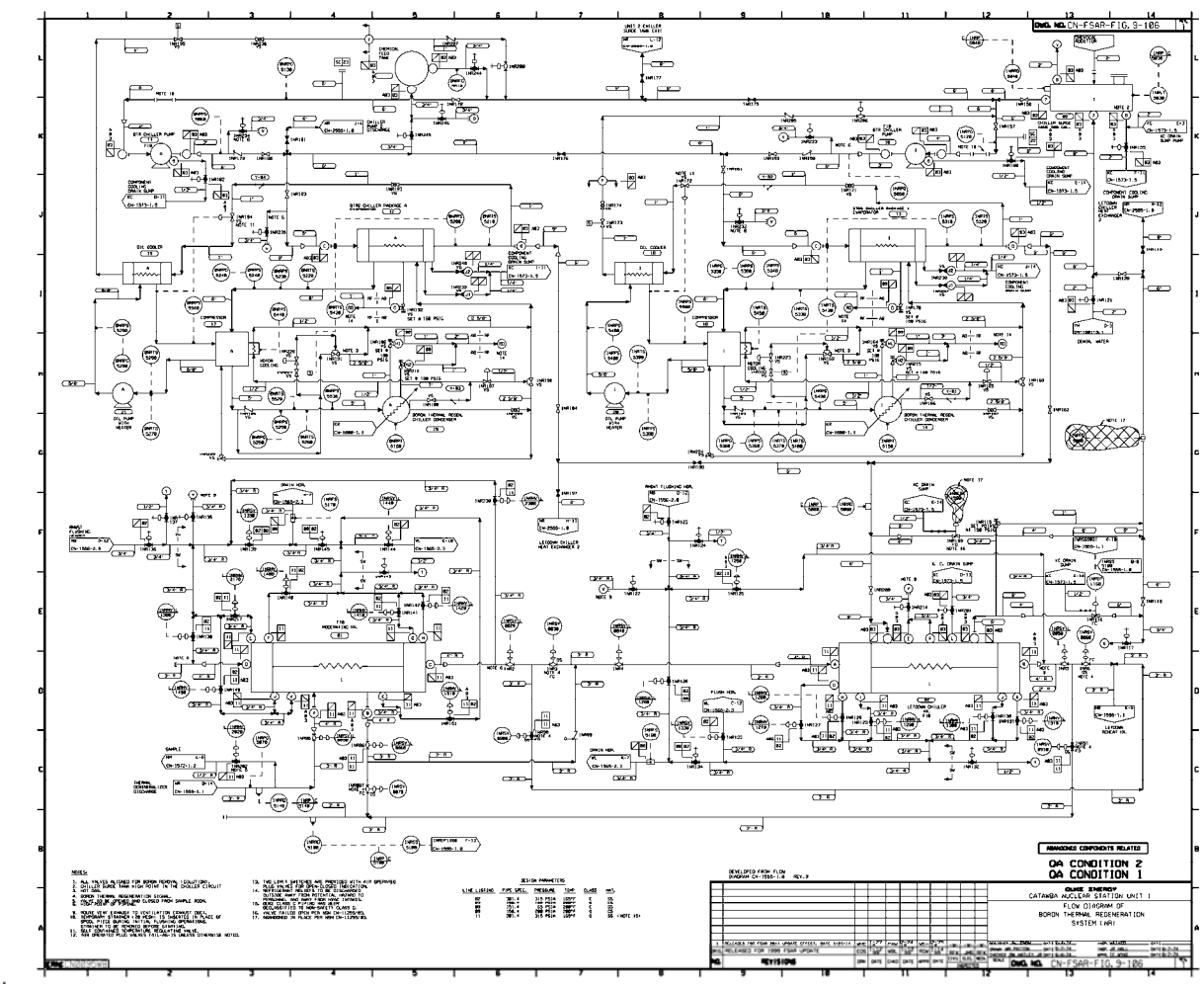

Figure 9-107. Flow Diagram of Boron Thermal Regeneration System

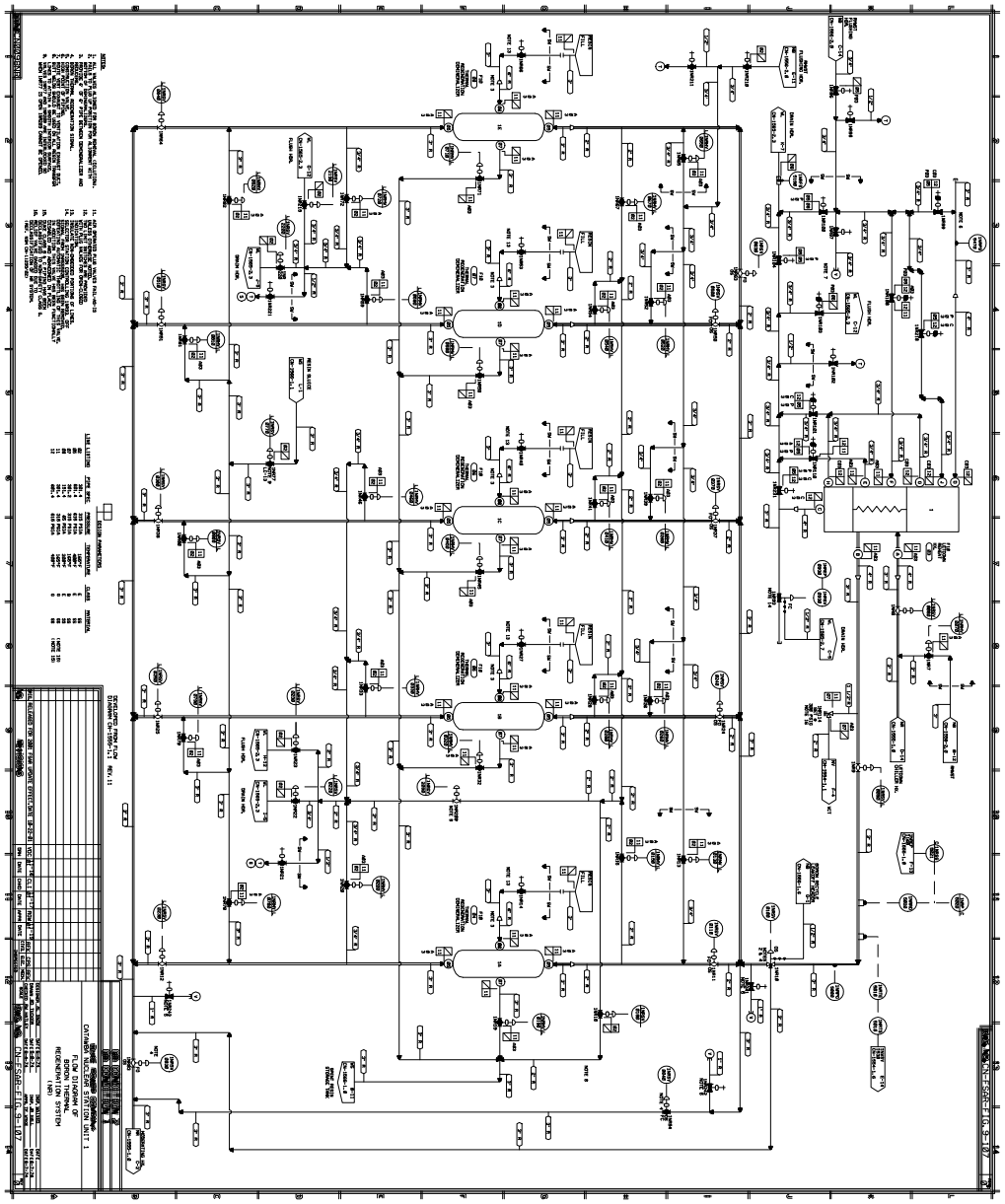

Figure 9-108. Flow Diagram of Control Room Area Ventilation System

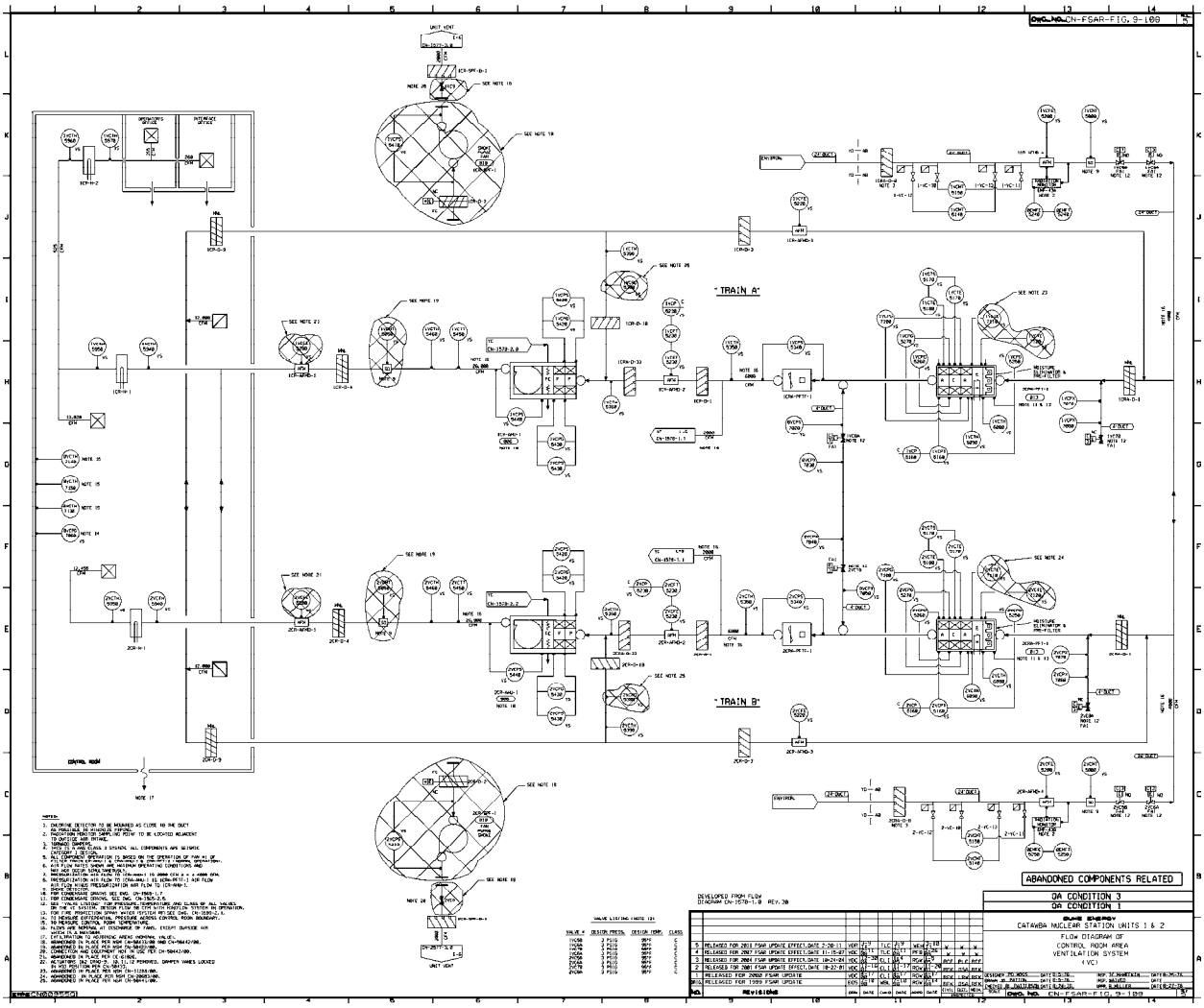

Figure 9-109. Flow Diagram of Control Room Area Ventilation System

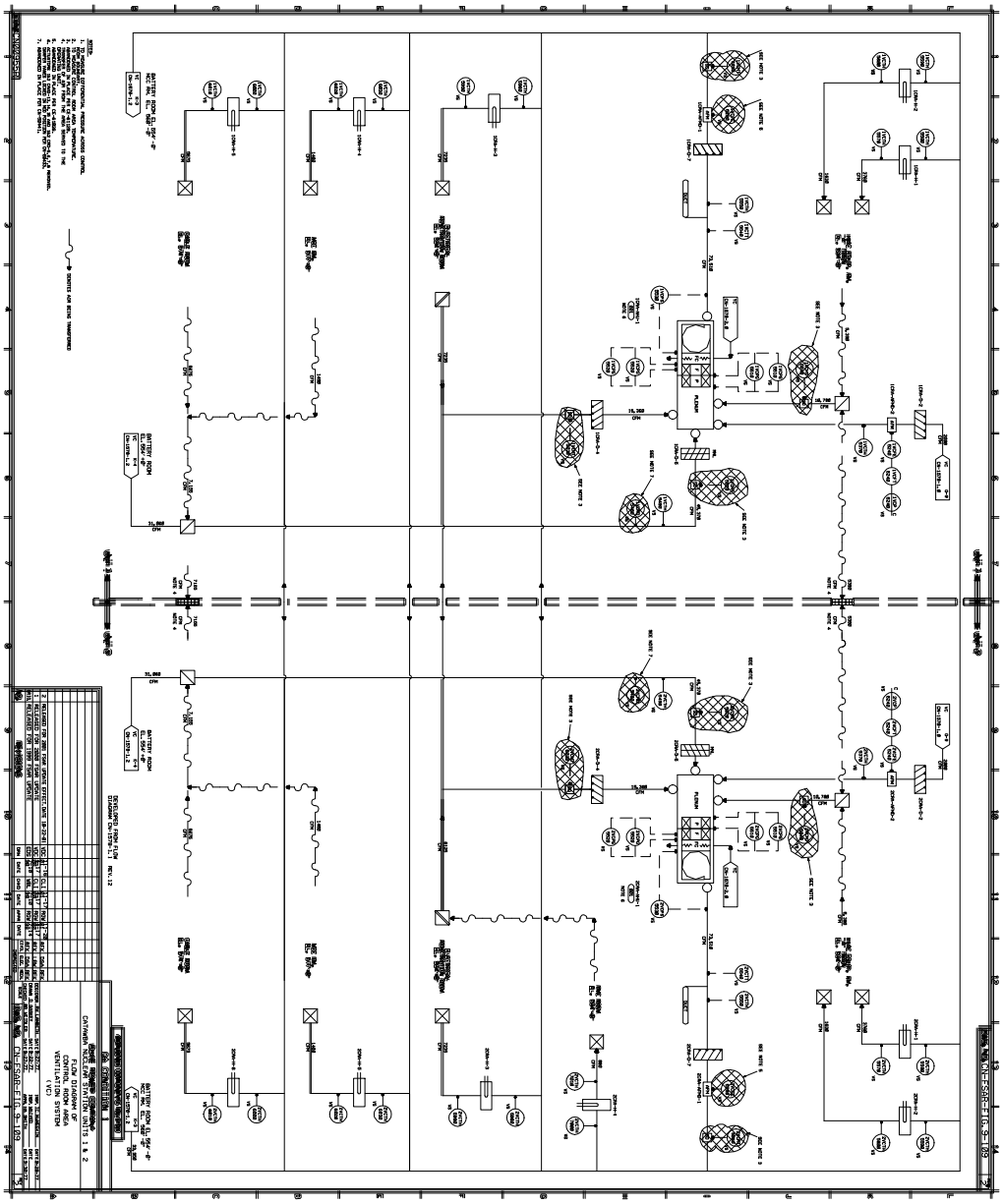

Figure 9-110. Flow Diagram of Control Room Area Ventilation System

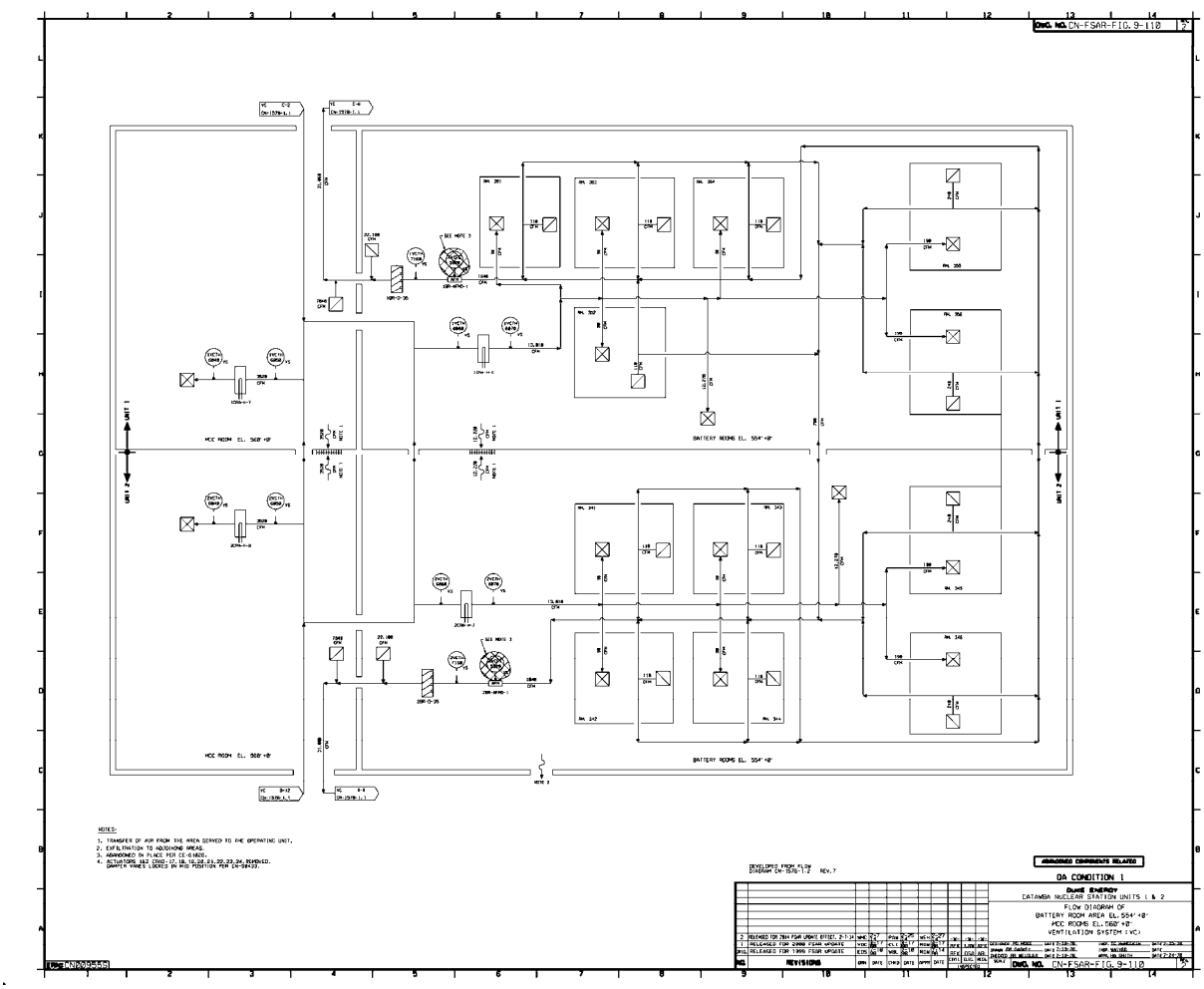

Figure 9-111. Flow Diagram of Battery Room Area Ventilation System EL. 554' + 0'

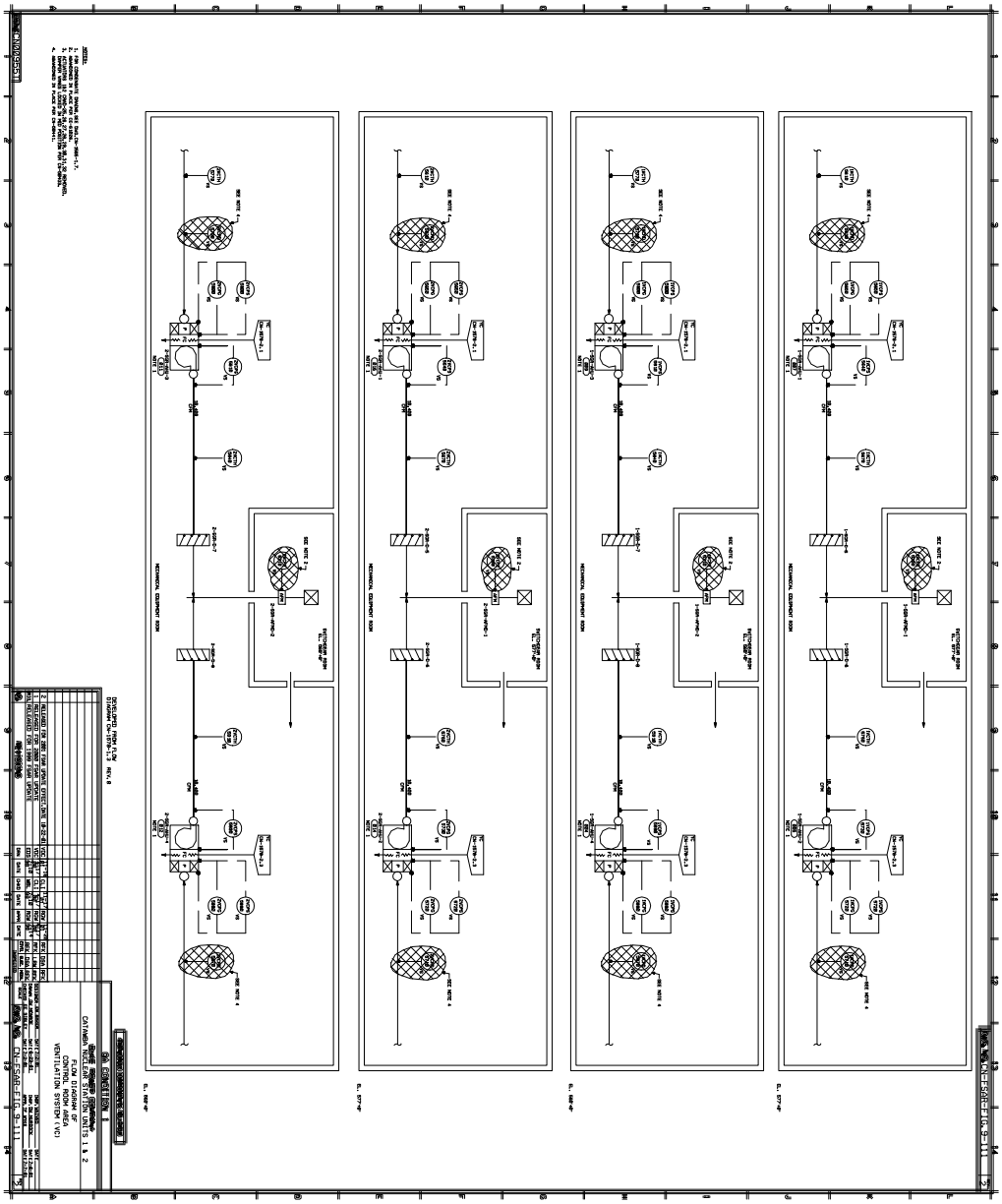

Figure 9-112. Flow Diagram of Control Area Chilled Water System

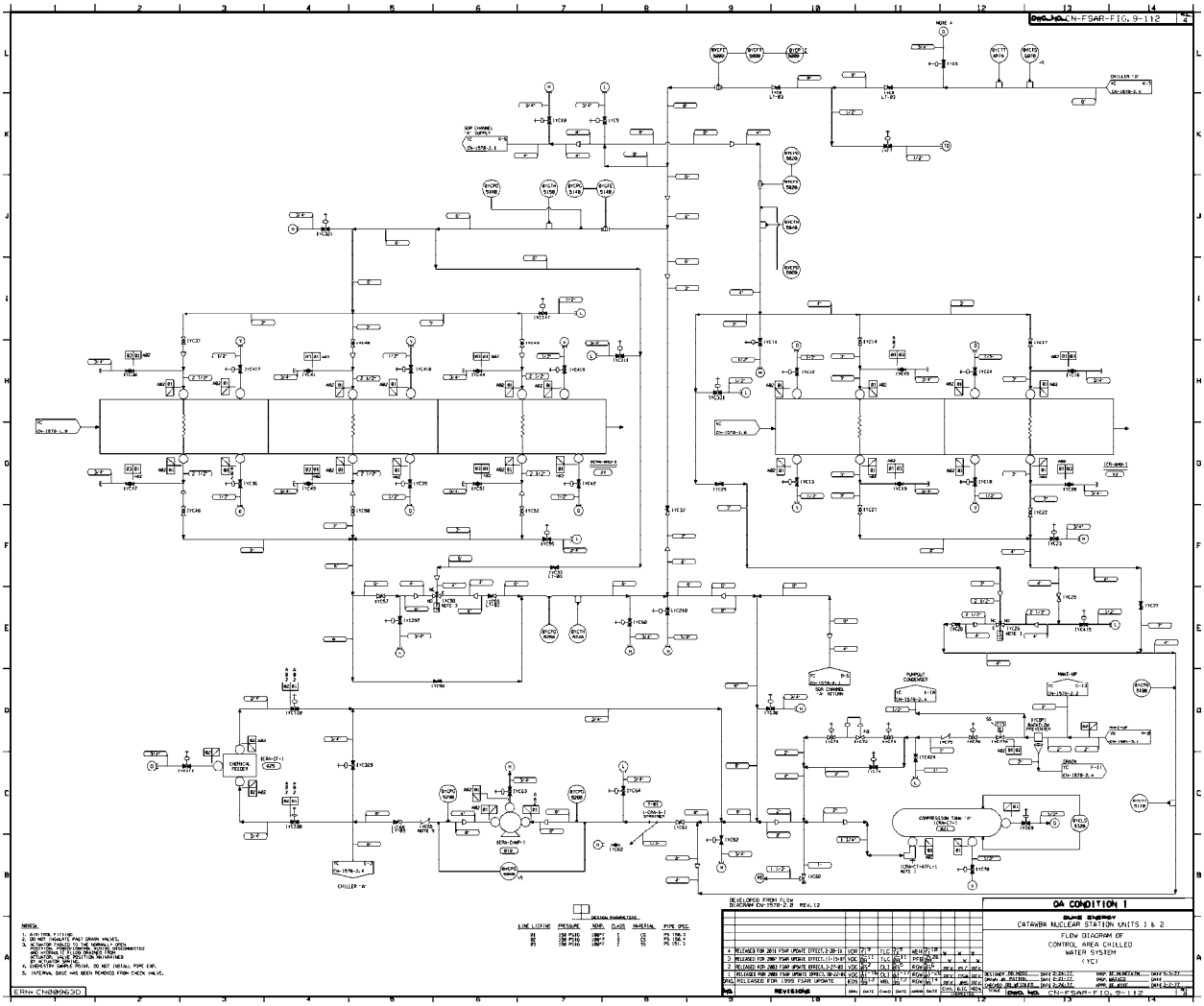

Figure 9-113. Flow Diagram of Control Area Chilled Water System

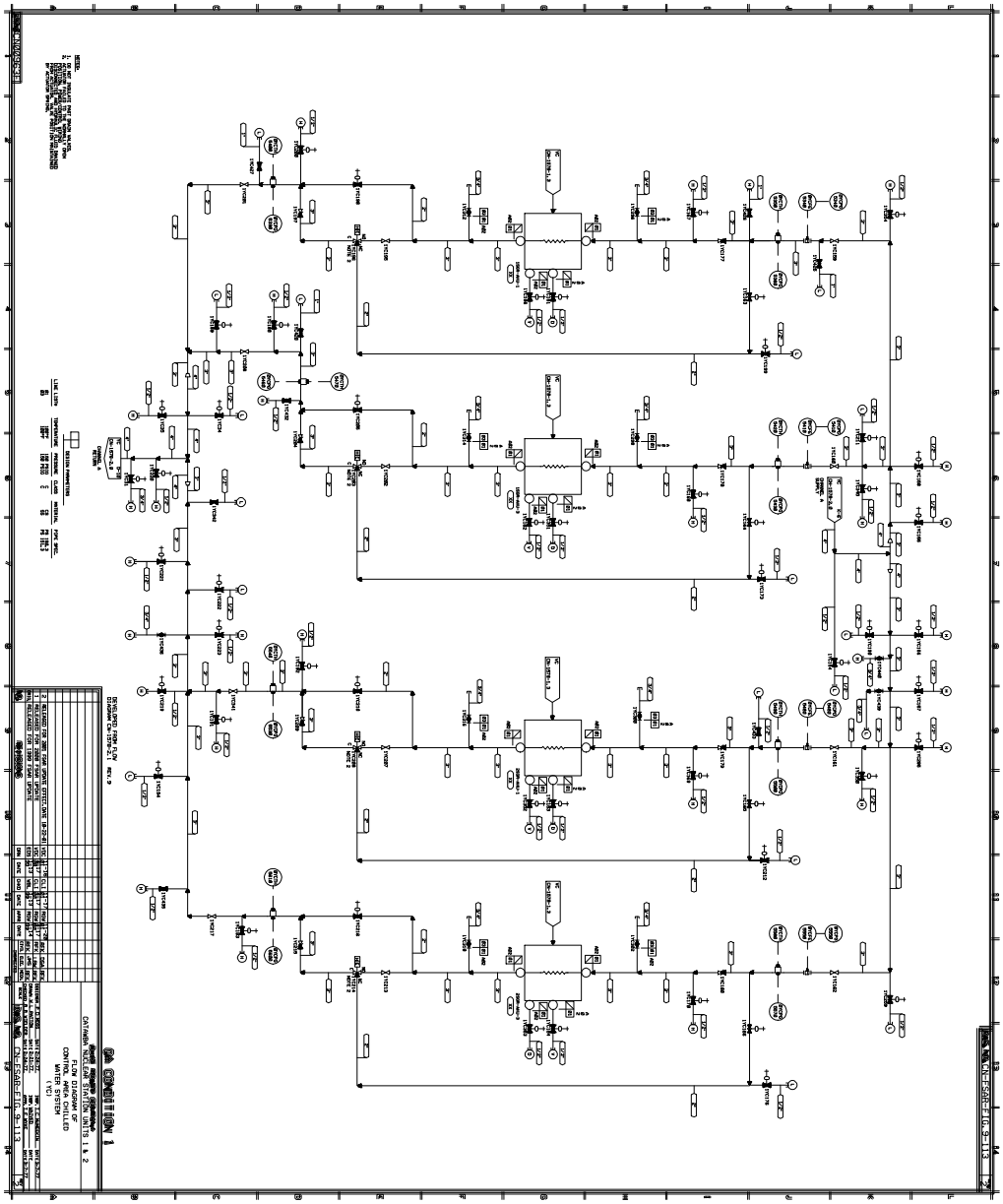

Figure 9-114. Flow Diagram of Control Area Chilled Water System

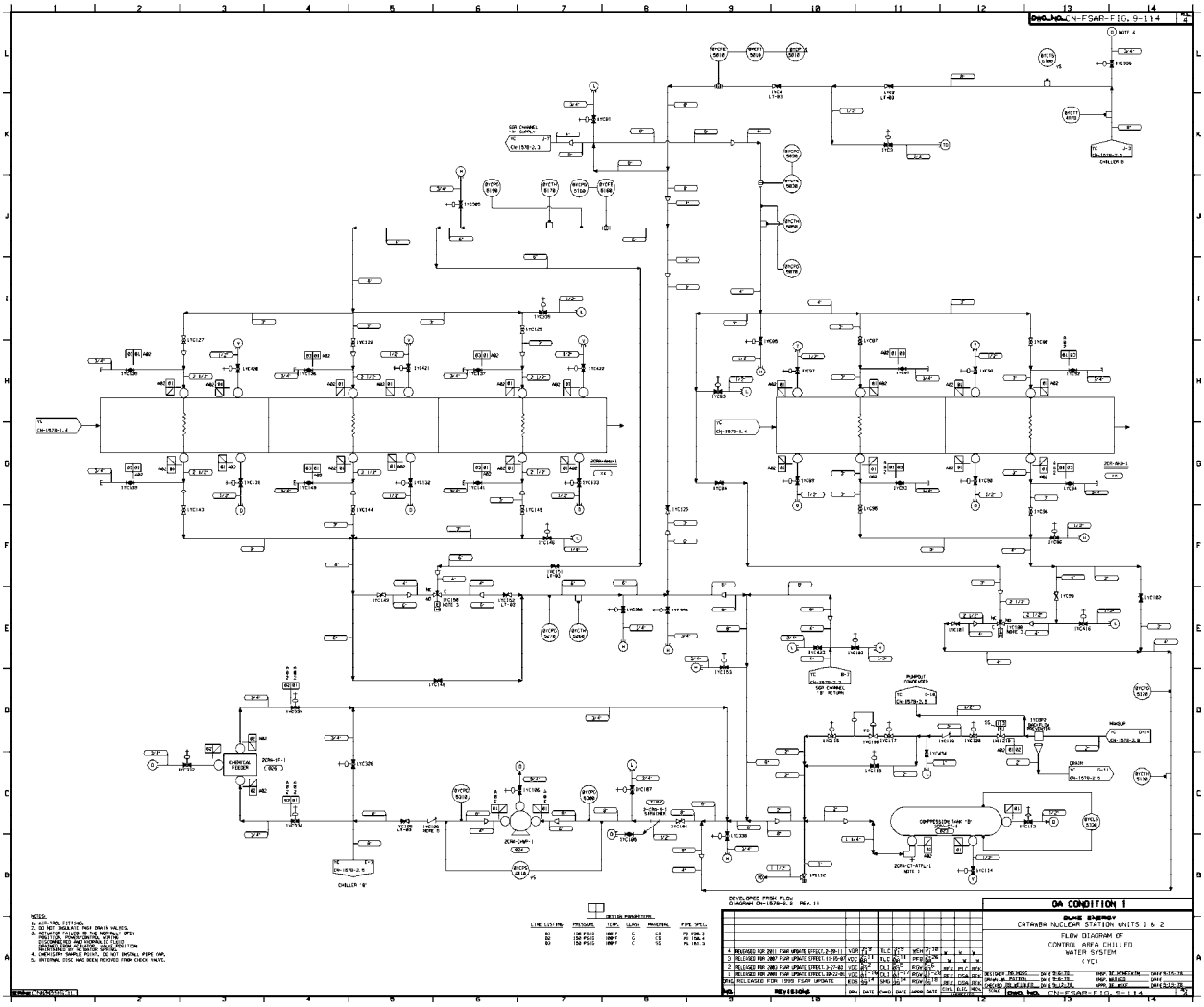

Figure 9-115. Flow Diagram of Control Area Chilled Water System

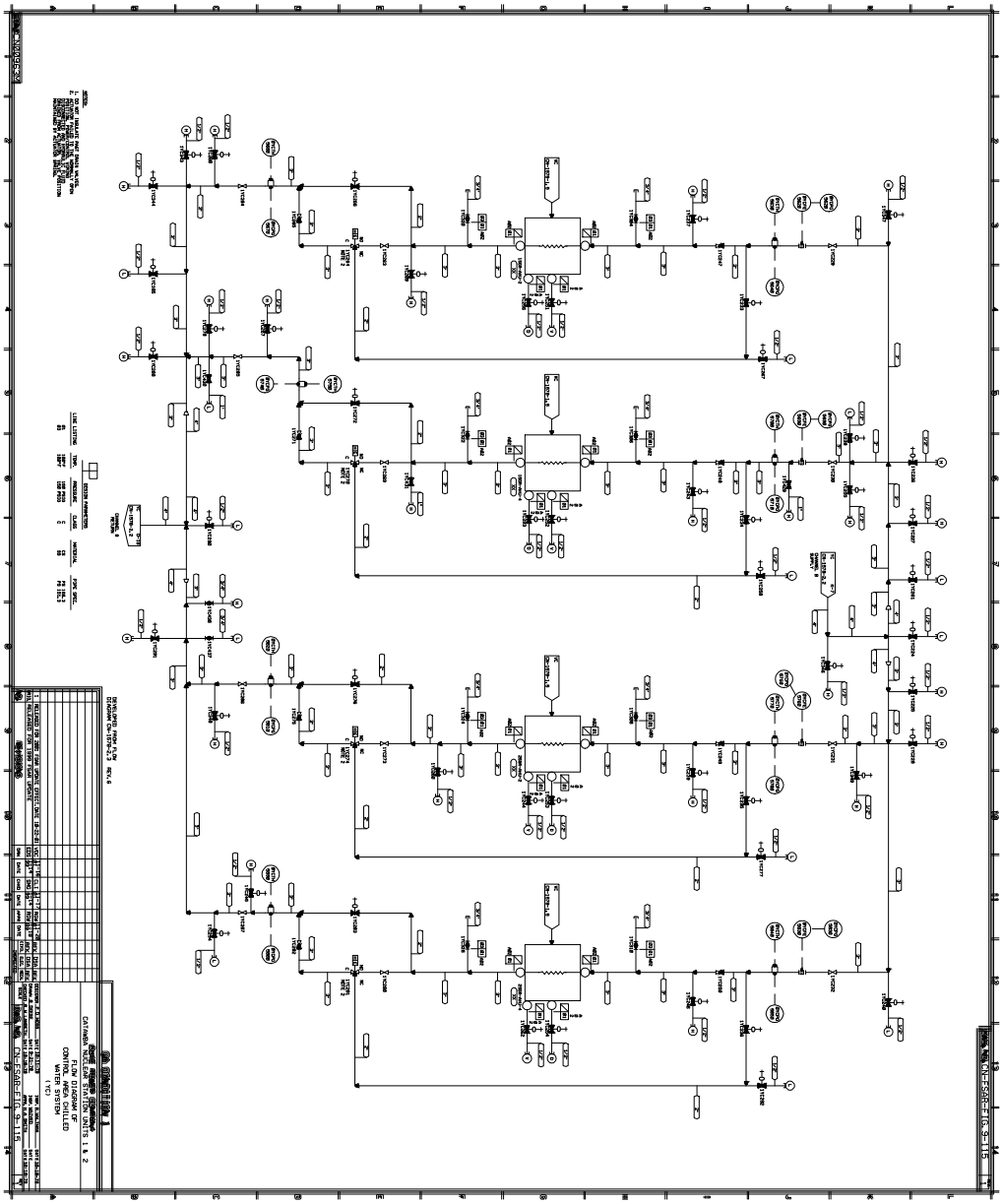

Figure 9-116. Flow Diagram of Control Area Chilled Water System

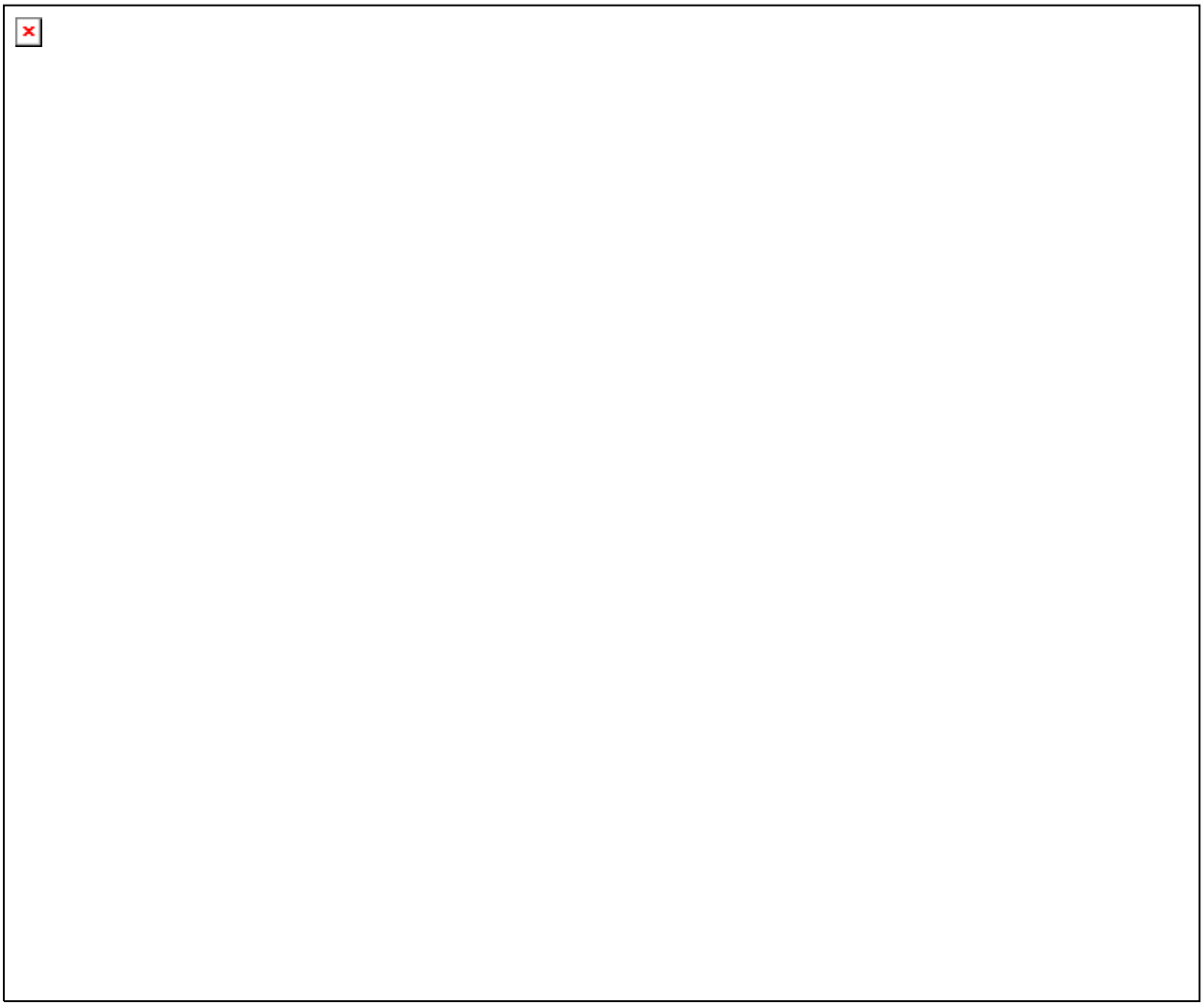

Figure 9-117. Flow Diagram of Control Area Chilled Water System

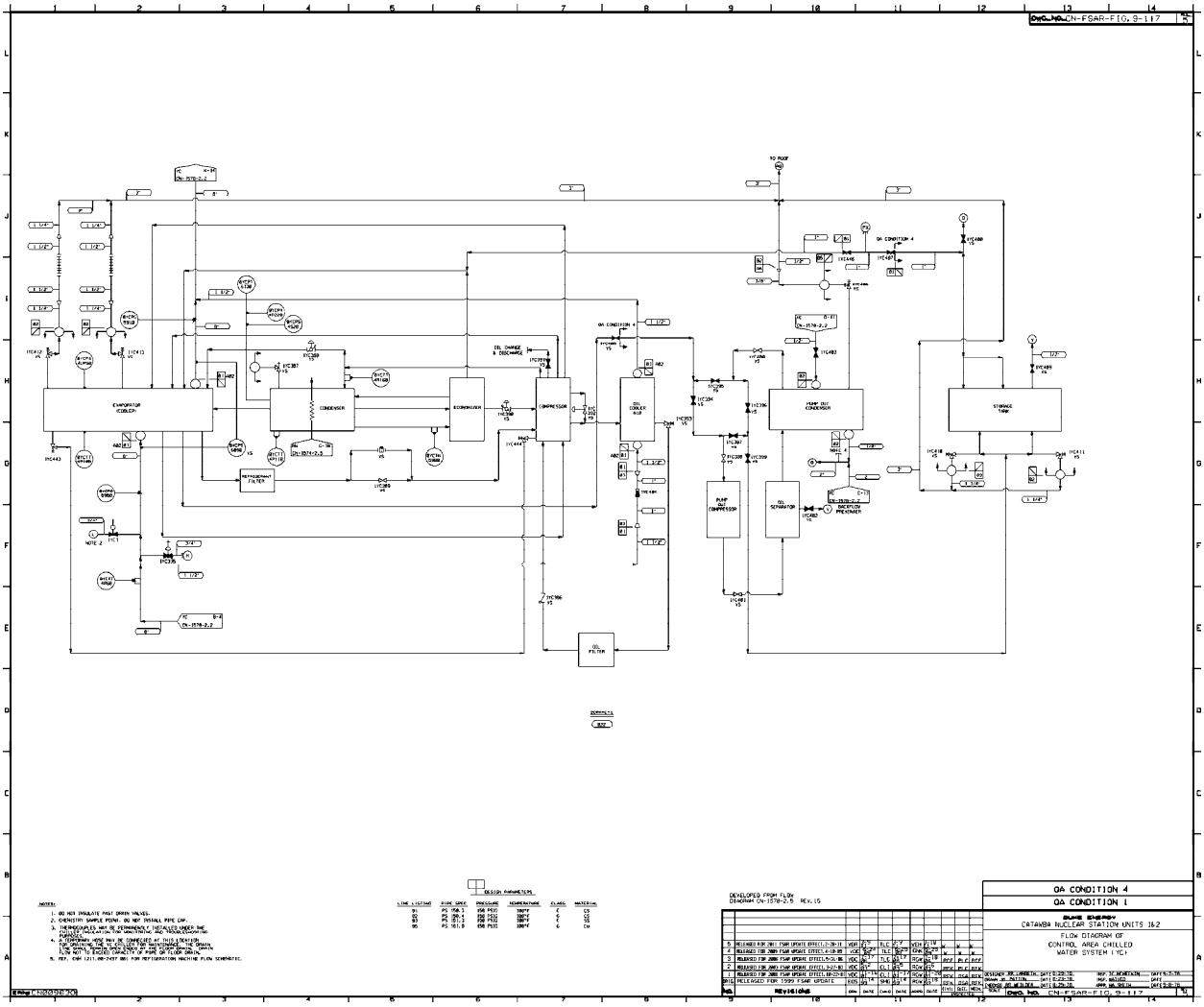

Figure 9-118. Flow Diagram of Fuel Handling Ventilation System

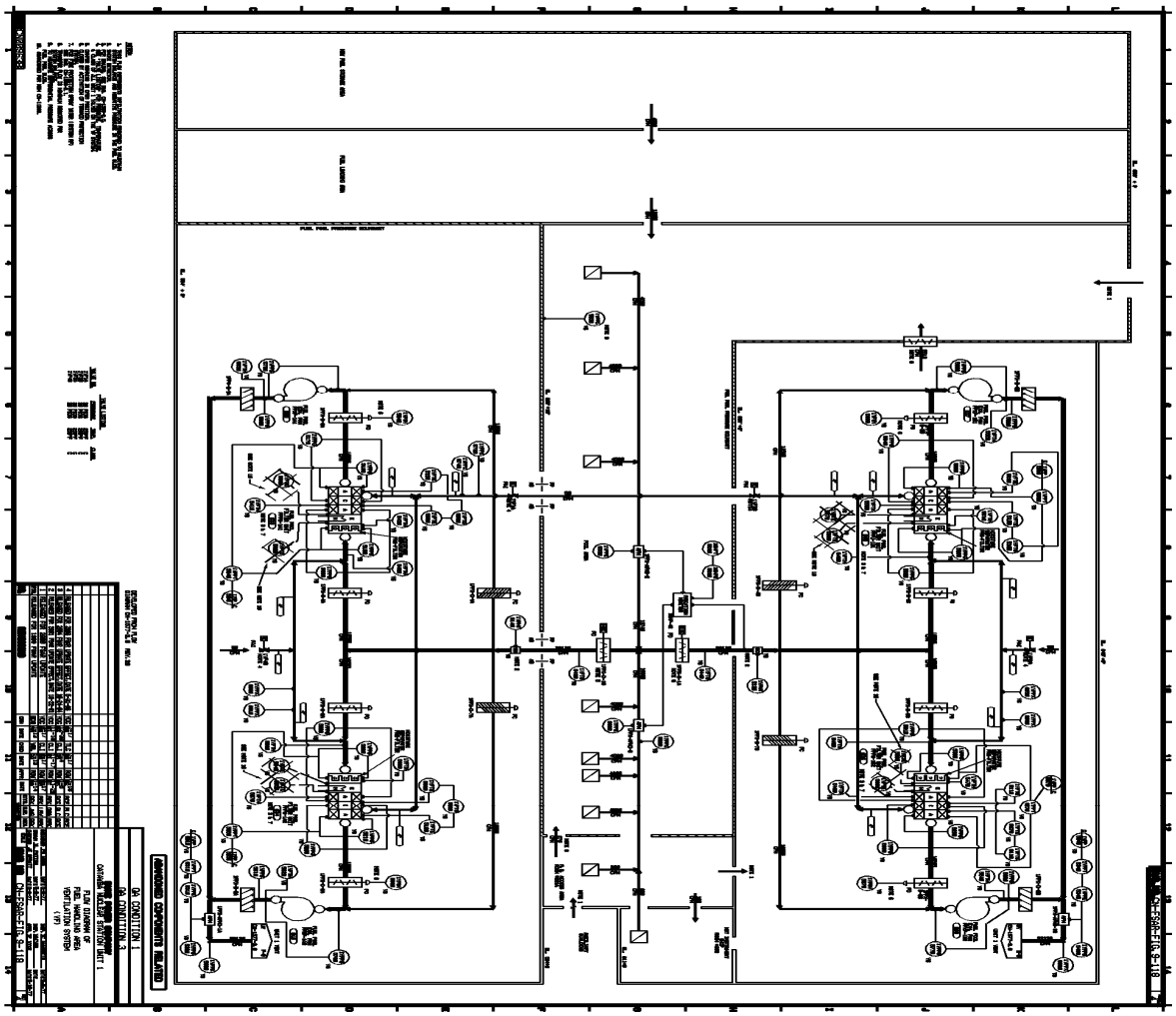

Figure 9-119. Flow Diagram of Fuel Handling Ventilation System

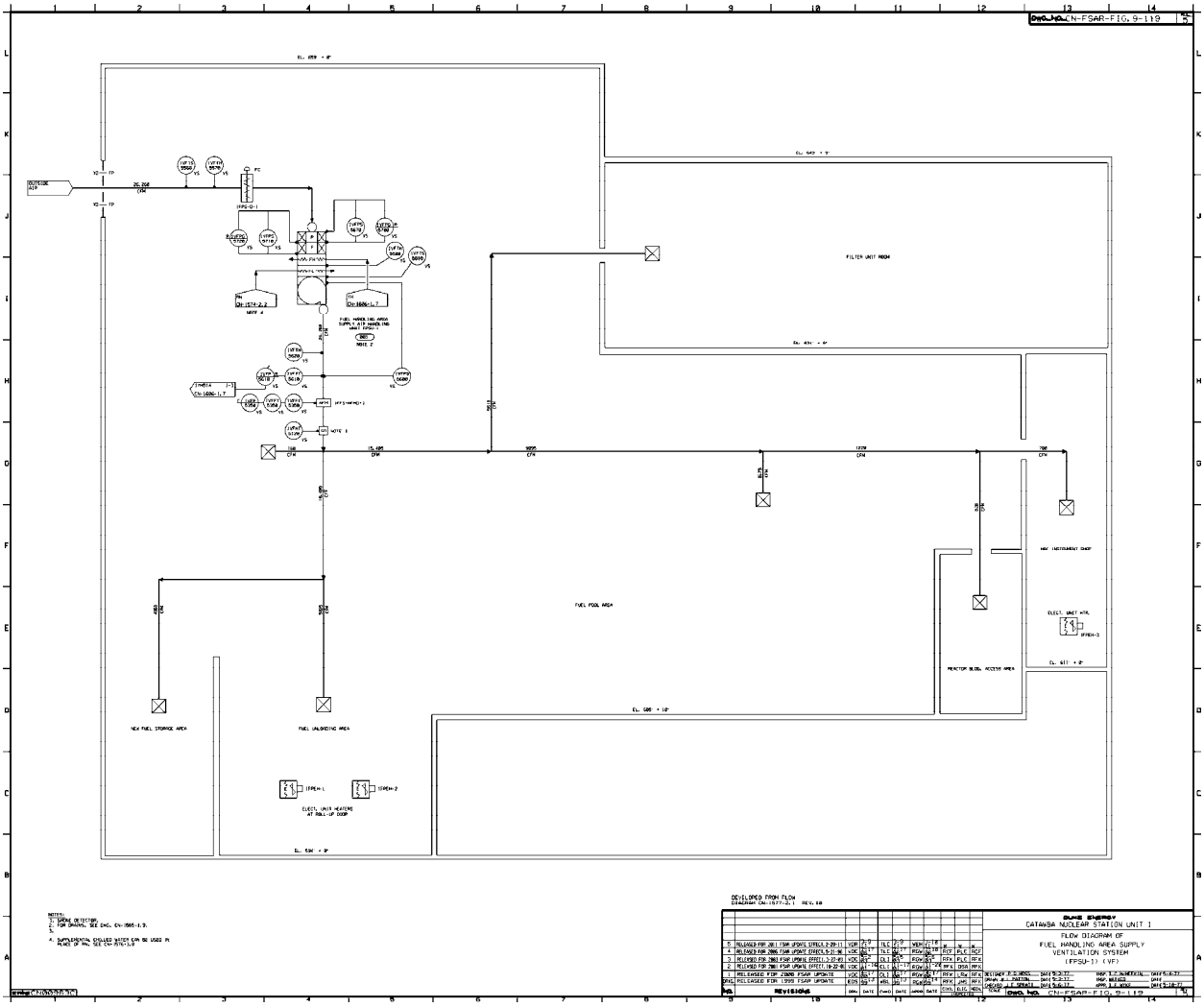

Figure 9-120. Flow Diagram of Unit 1 Vent Stack

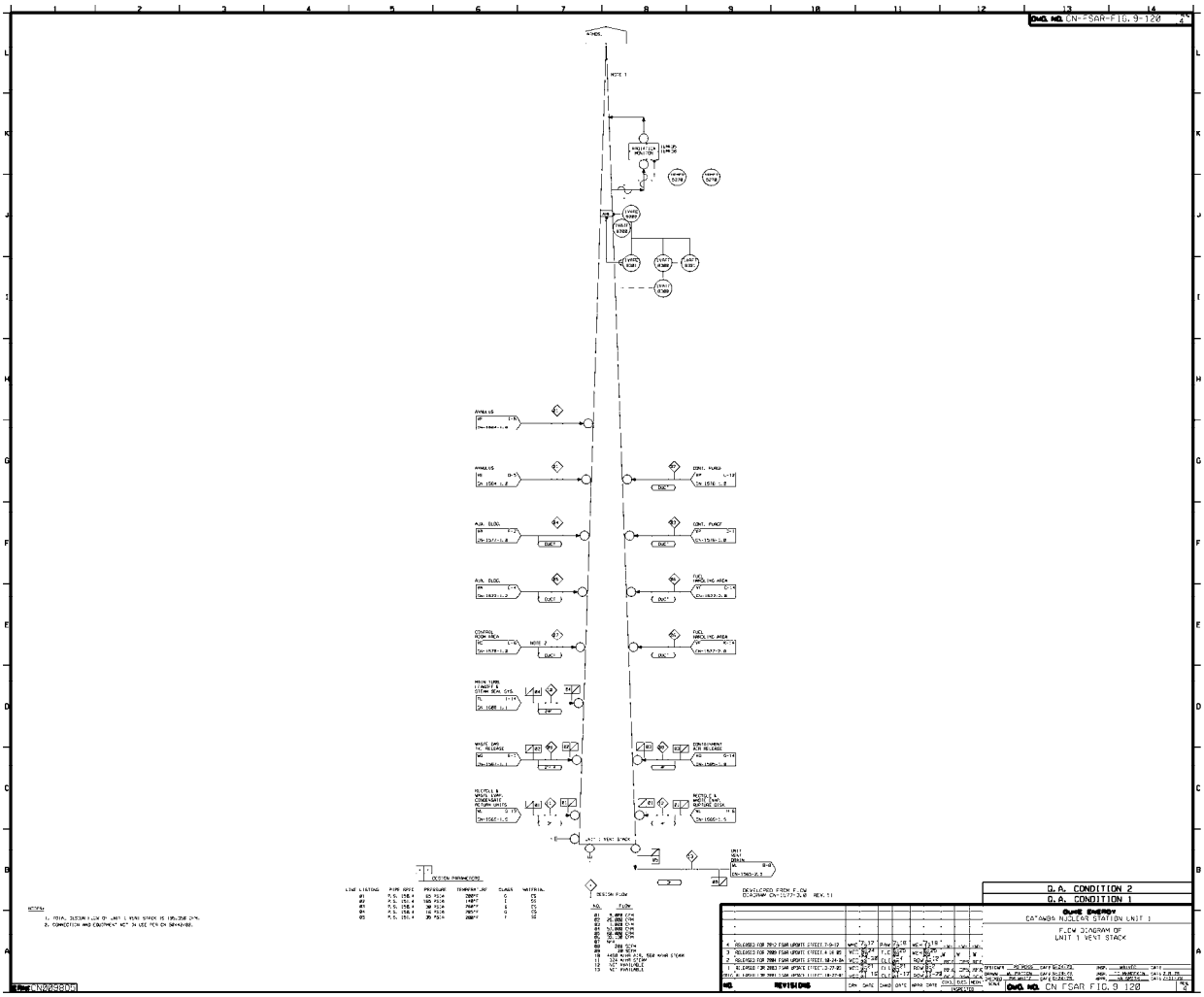

Figure 9-121. Flow Diagram of Auxilary Building Ventilation System

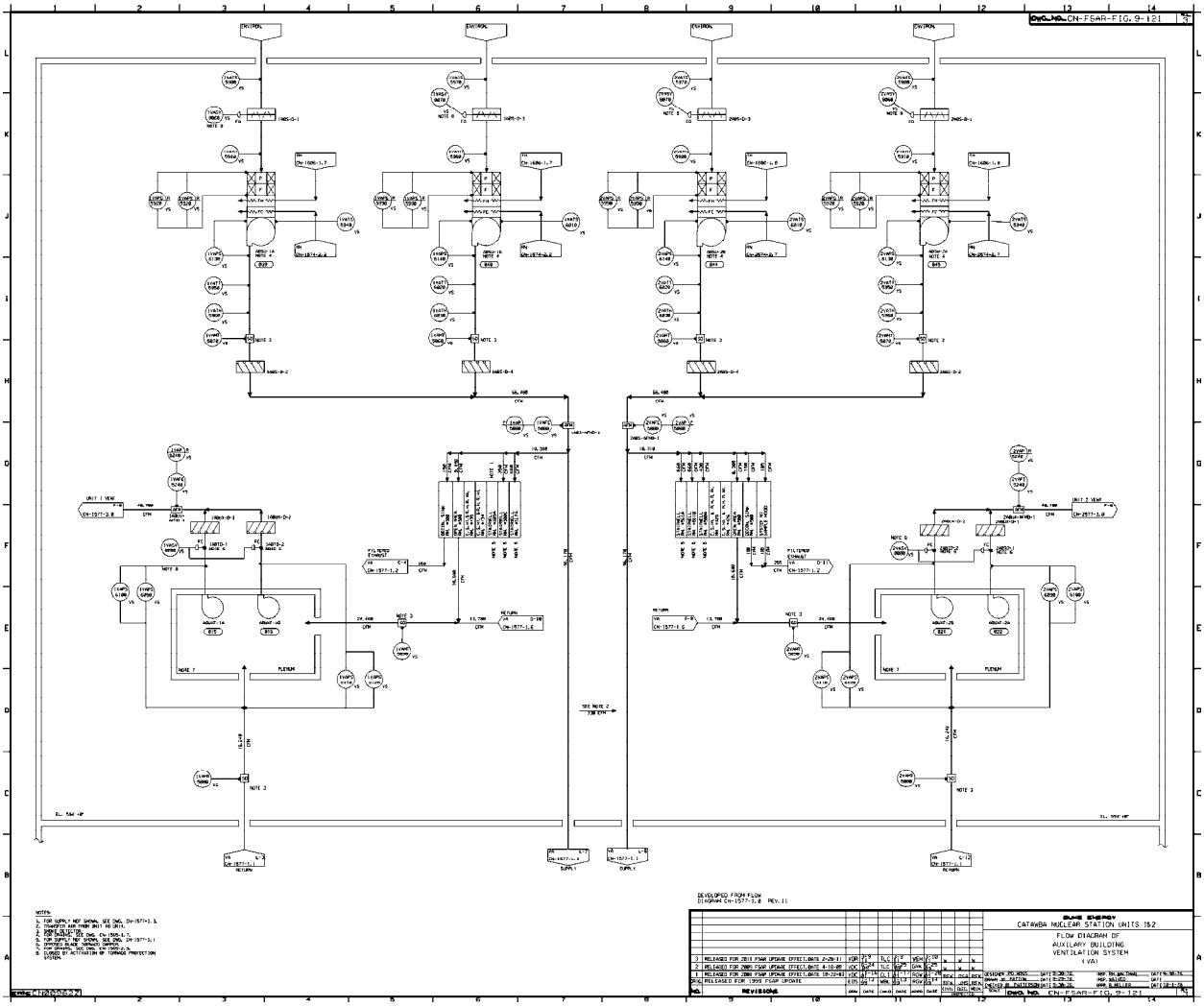

Figure 9-122. Flow Diagram of Auxilary Building Ventilation System

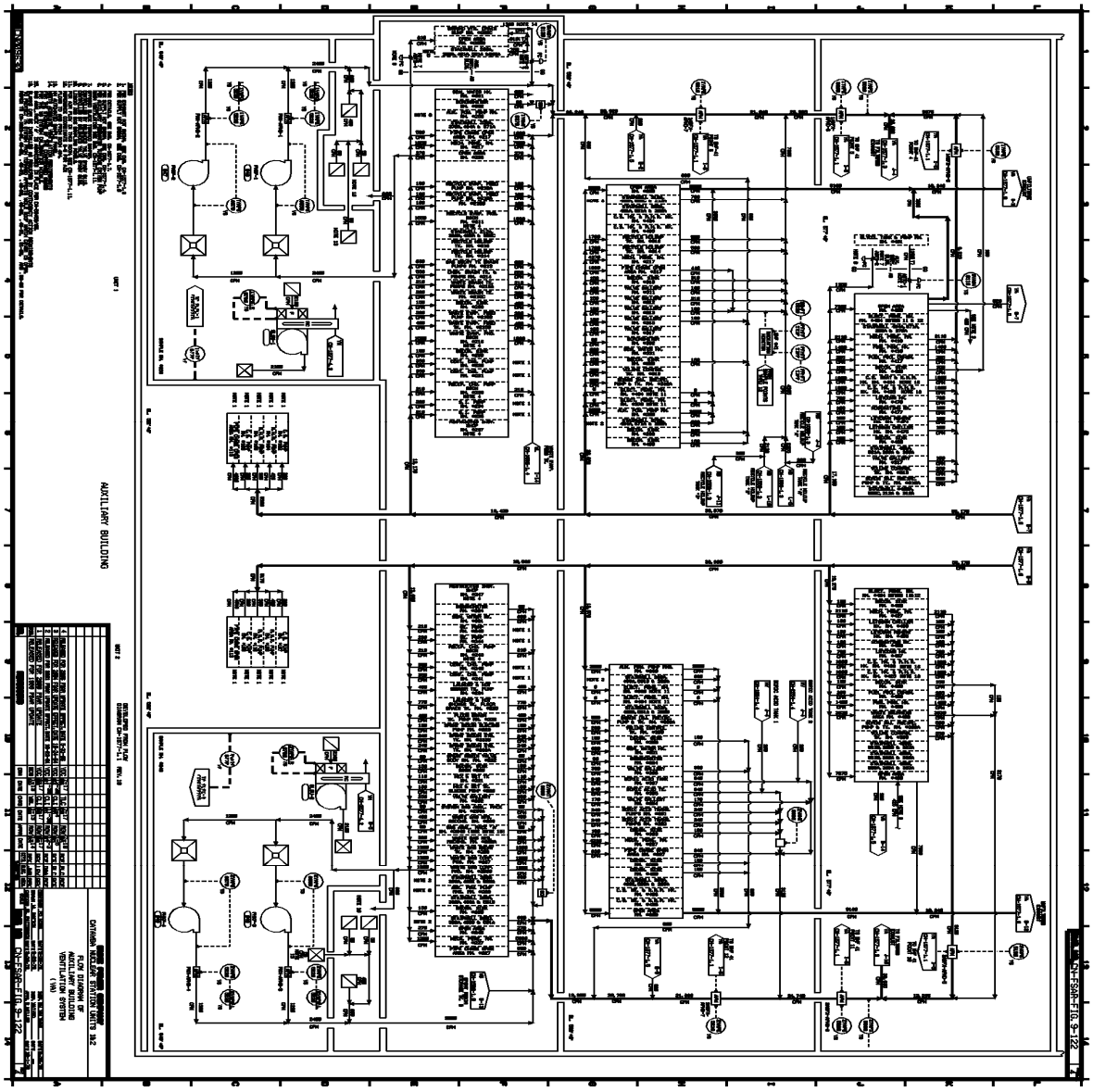

Figure 9-123. Flow Diagram of Auxilary Building Ventilation System

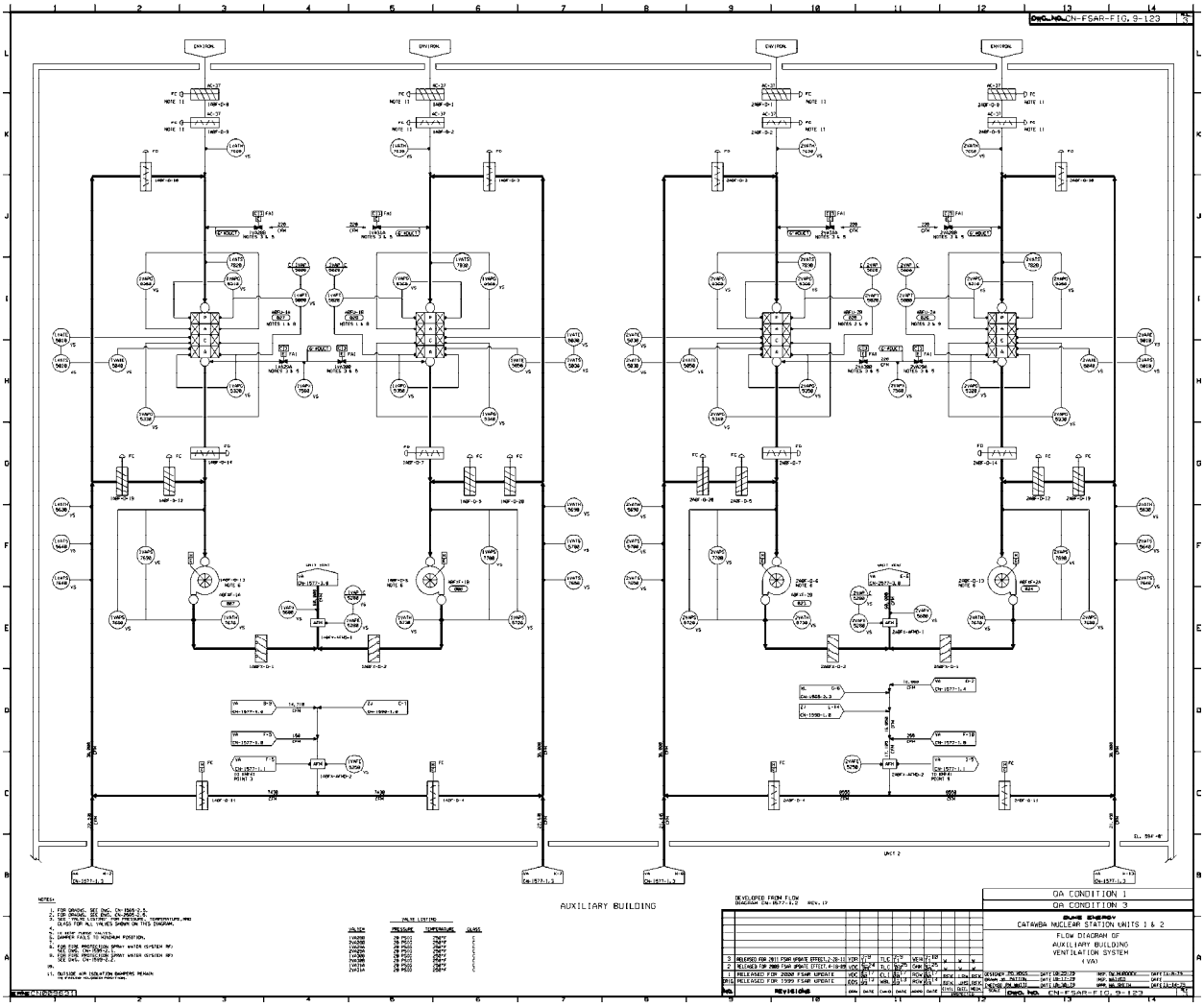

Figure 9-124. Flow Diagram of Auxilary Building Ventilation System

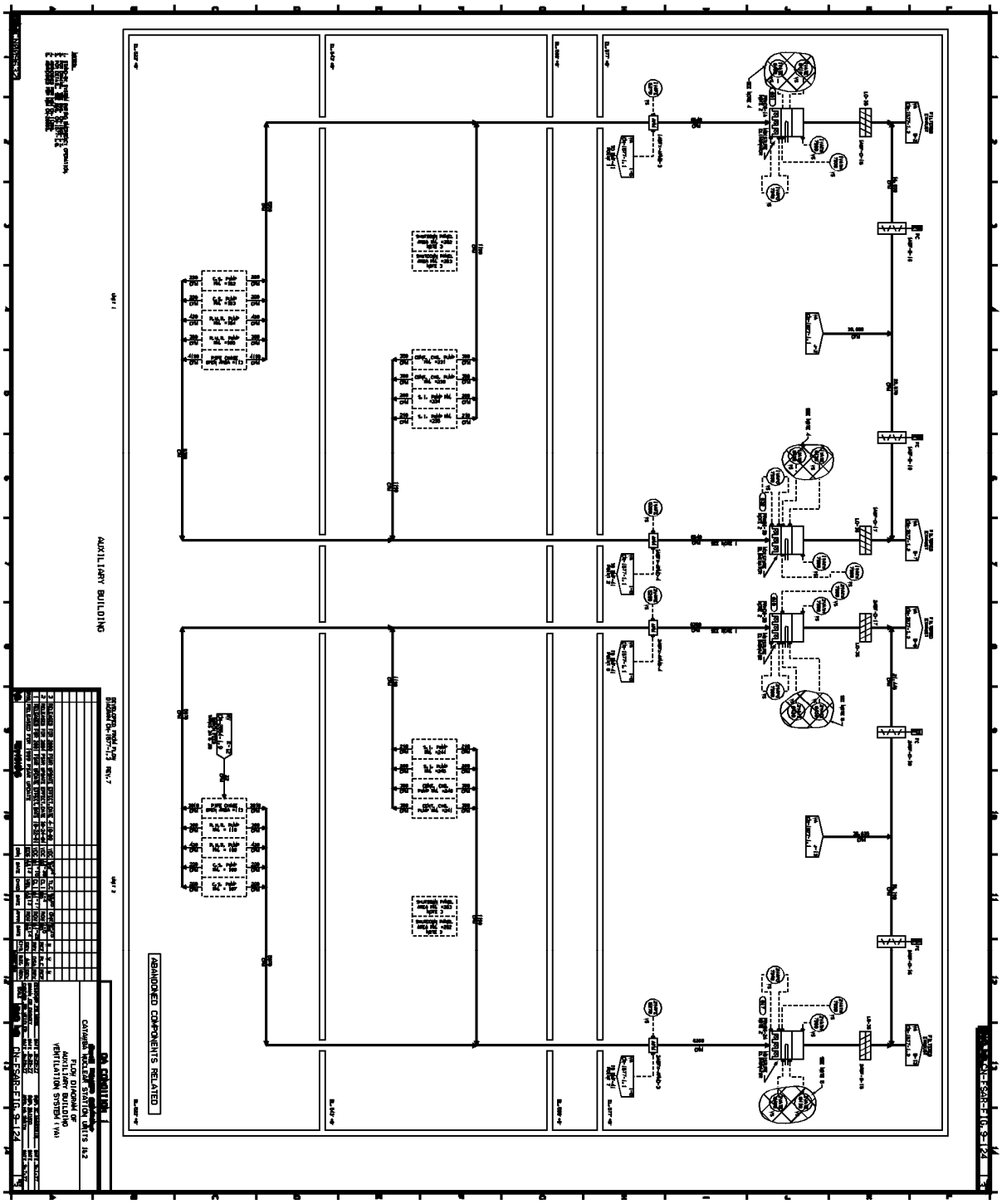

Figure 9-125. Flow Diagram of Auxilary Building Ventilation System

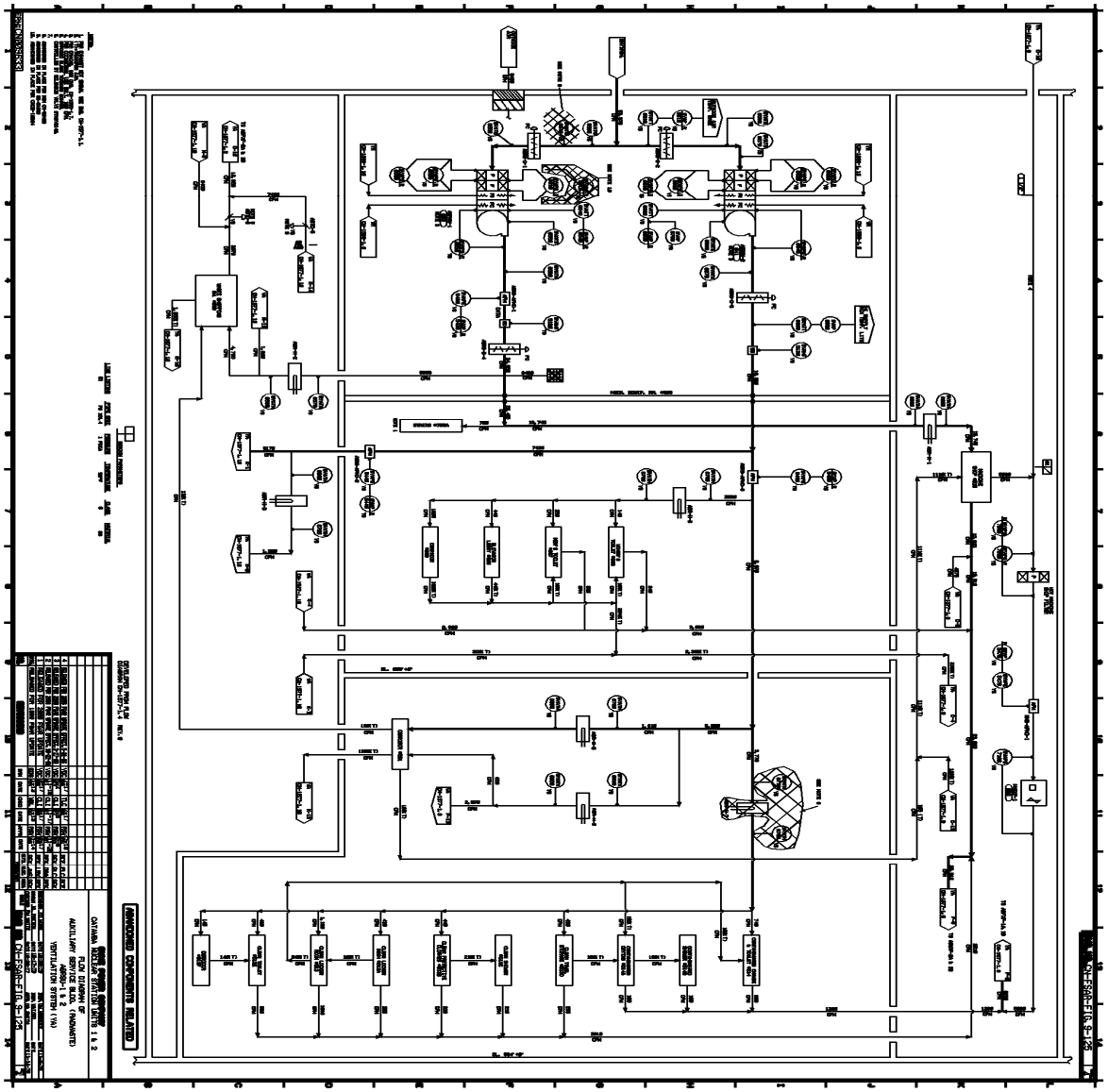

Figure 9-126. Auxiliary Shutdown Panel Air Conditioning System

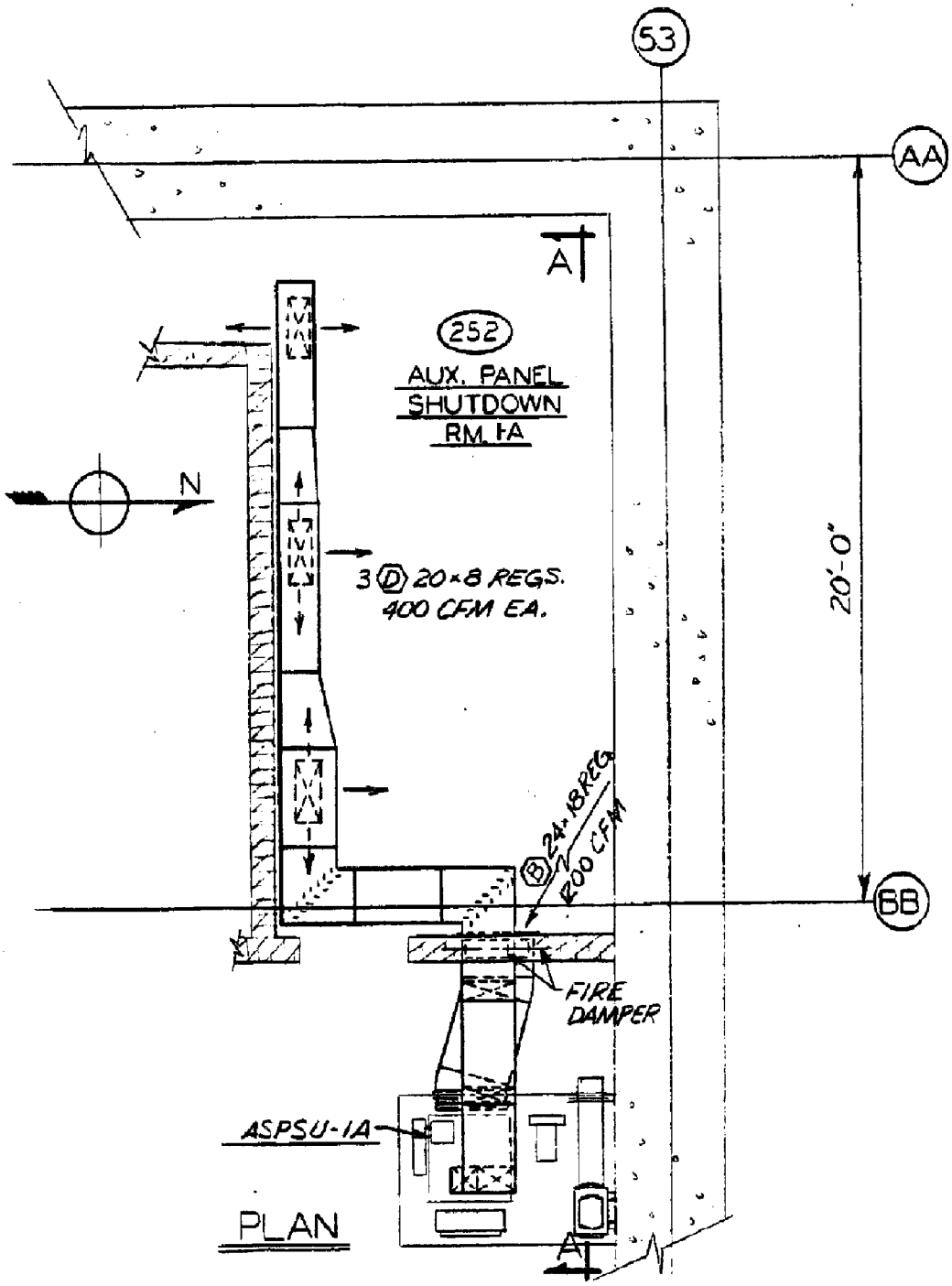

Figure 9-127. Auxiliary Shutdown Panel Air Conditioning System

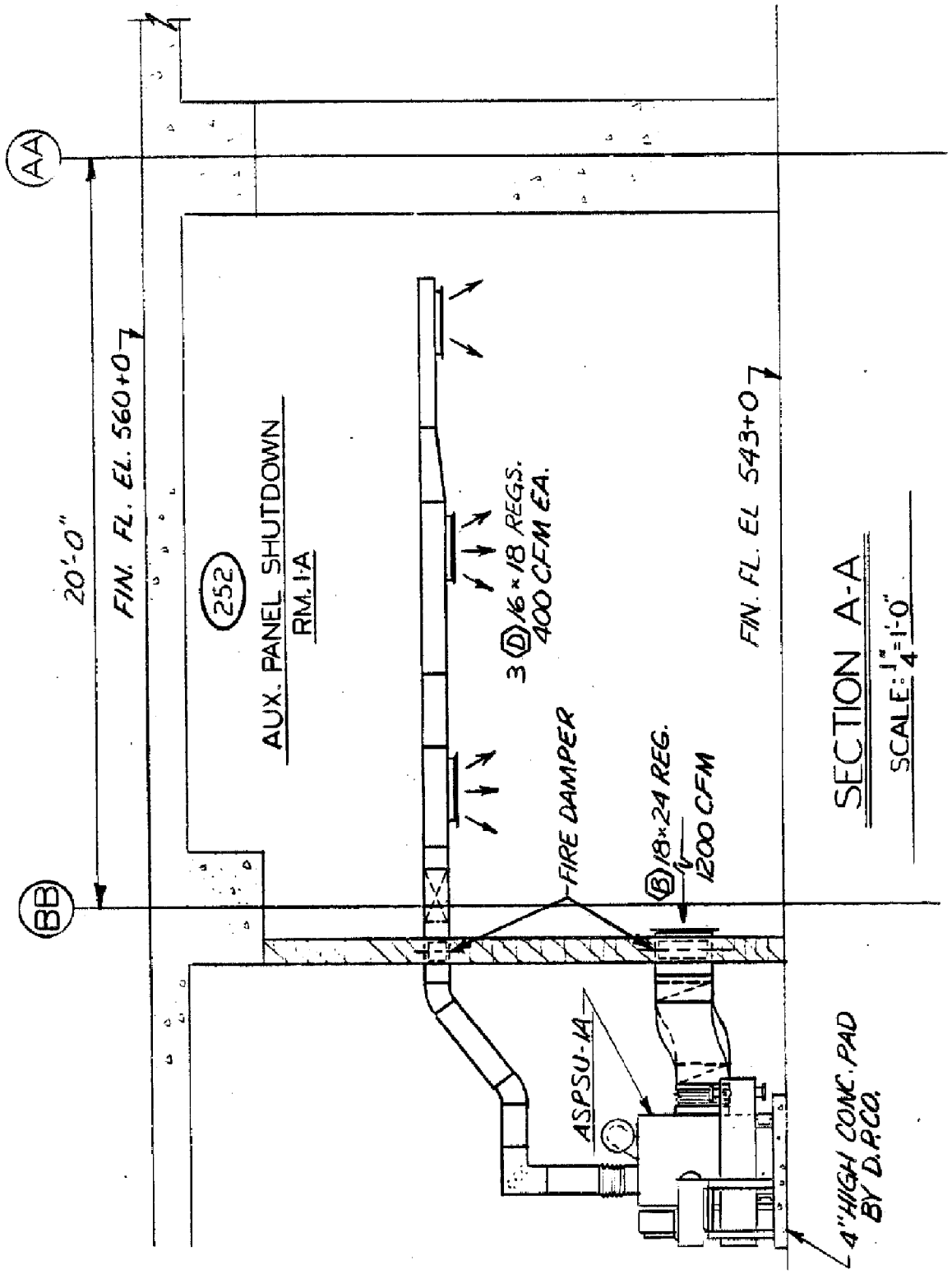

Figure 9-128. Flow Diagram of Diesel Building Ventilation System

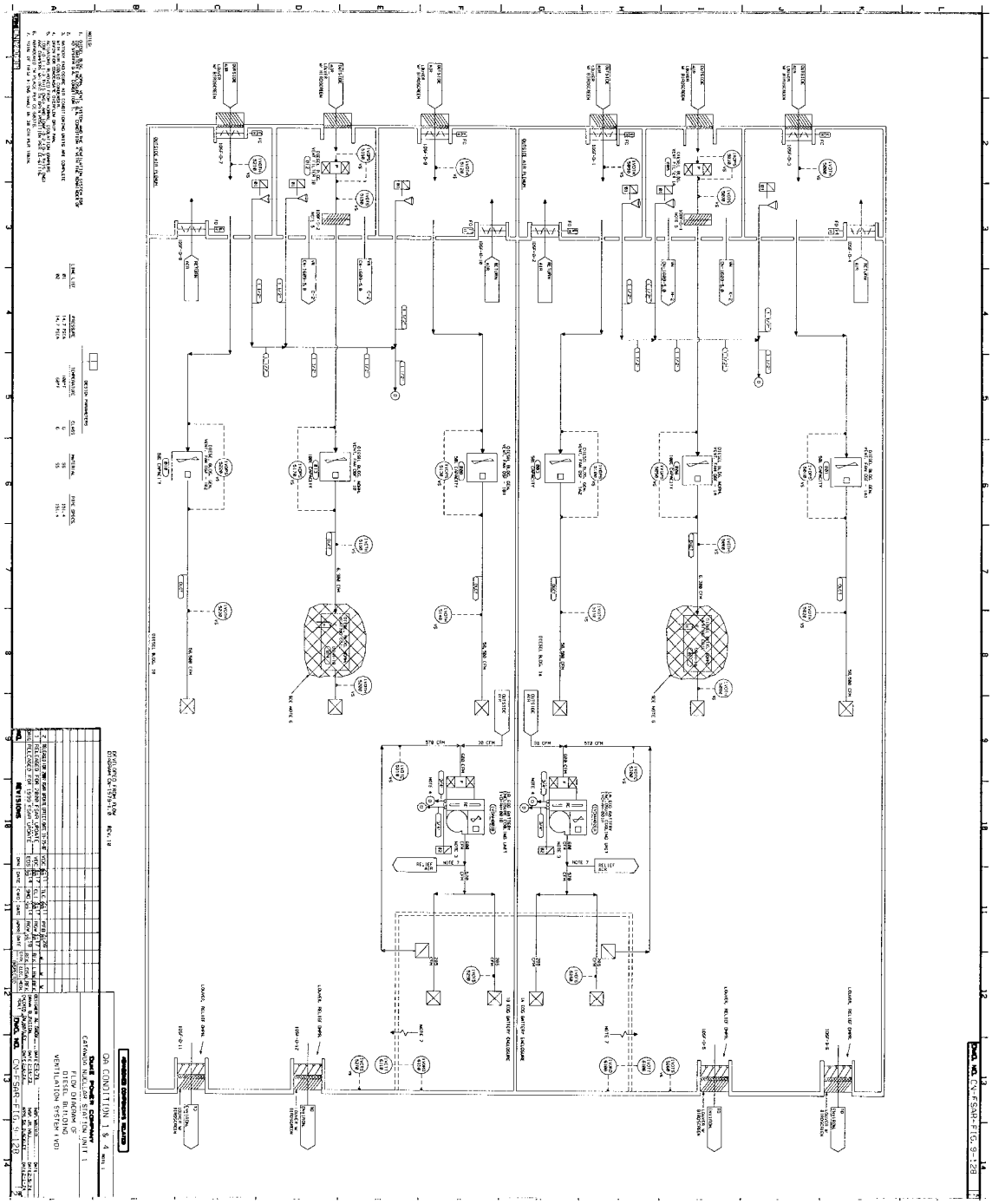

Figure 9-129. Flow Diagram of Containment Purge System

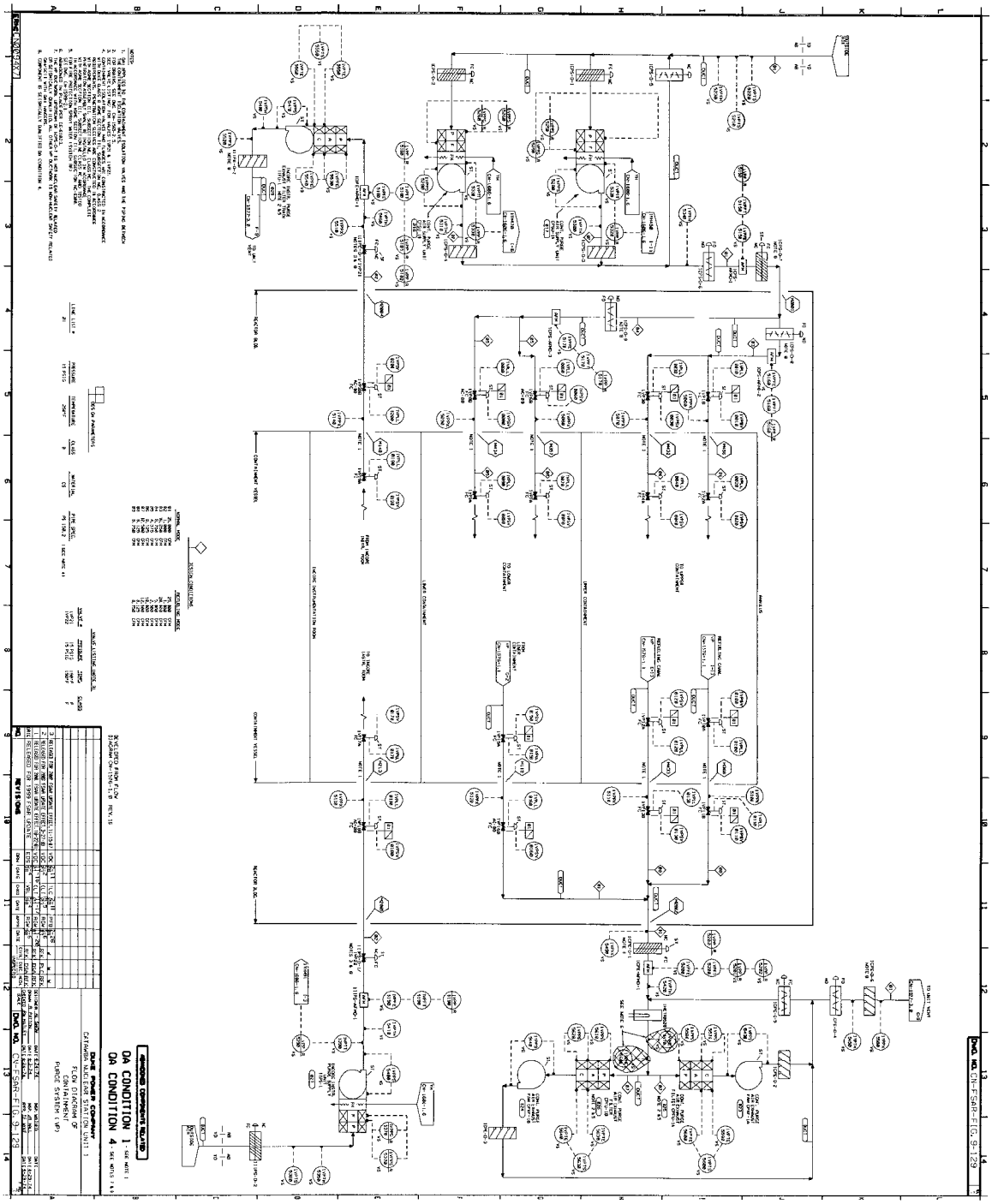

Figure 9-130. Flow Diagram of Containment Purge System

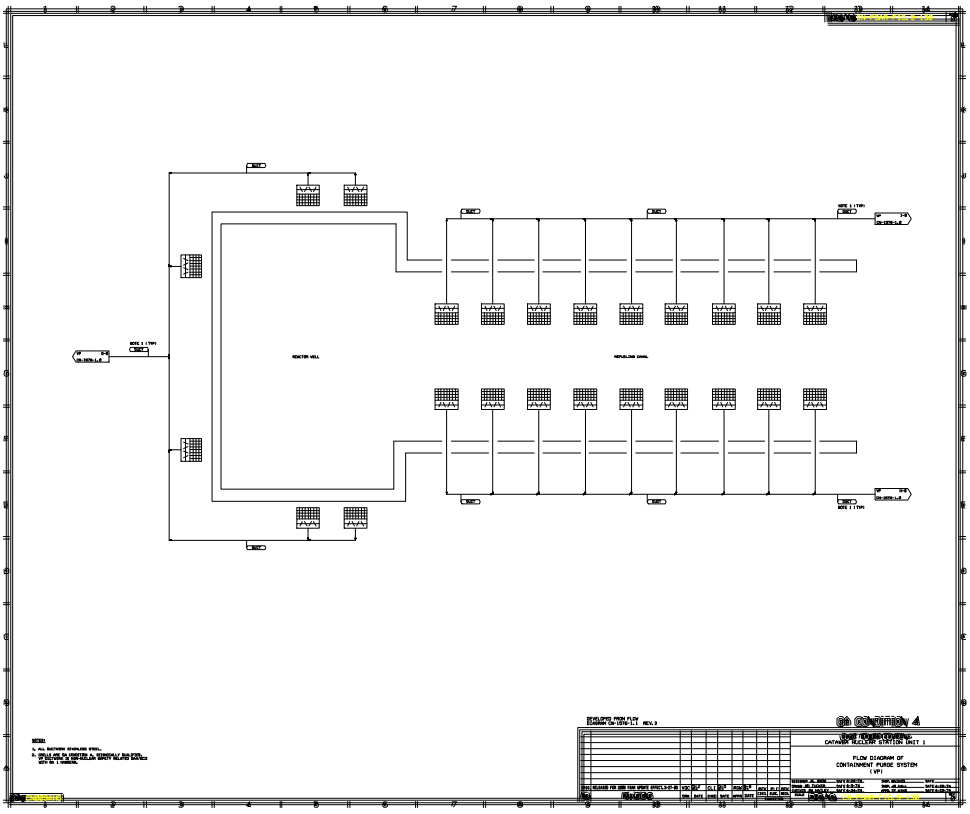

Figure 9-131. Flow Diagram of Containment Ventilation System

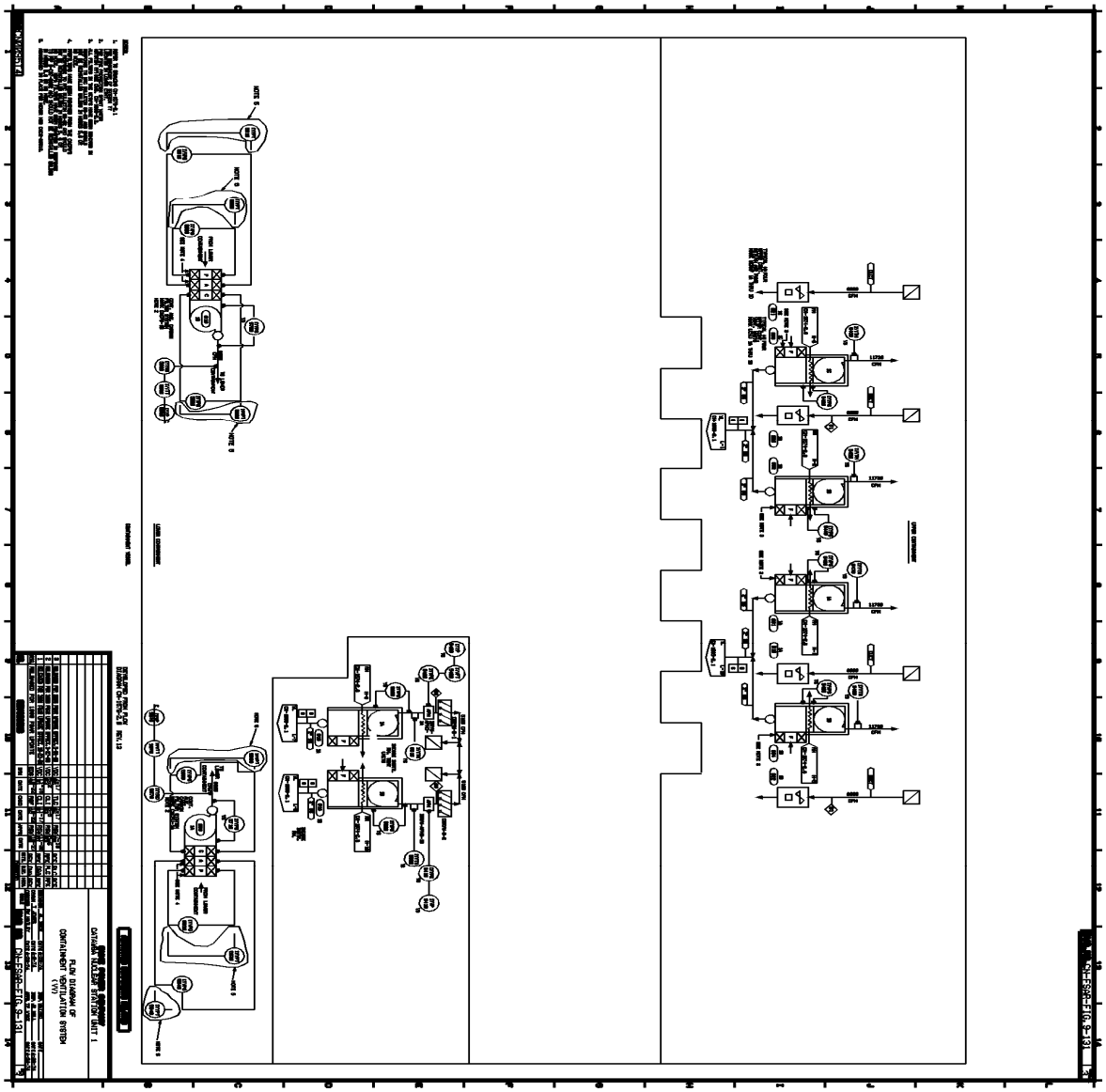

Figure 9-132. Flow Diagram of Turbine Building Ventilation System

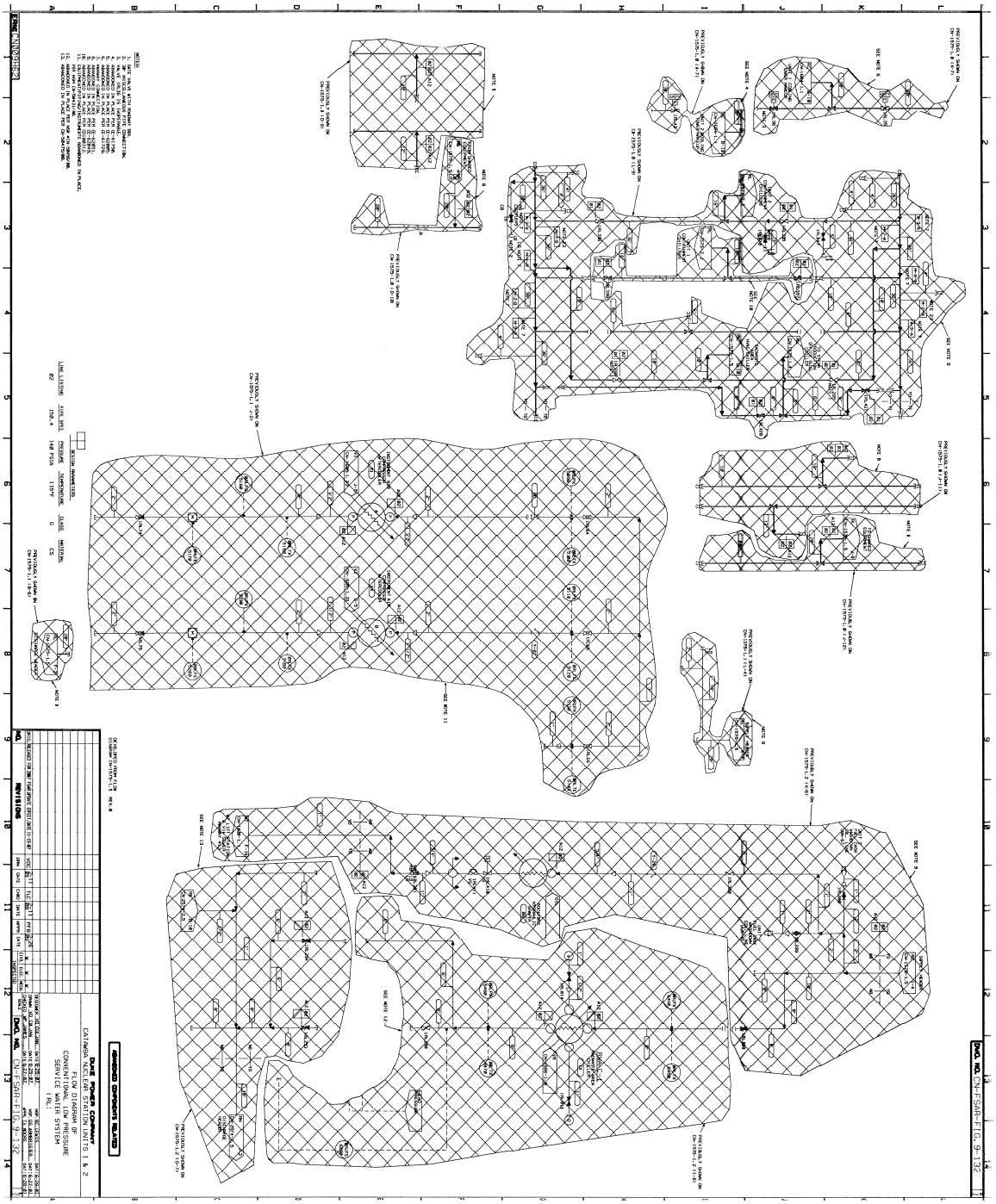

Figure 9-133. Deleted Per 2001 Update

Figure 9-134. Flow Diagram of Nuclear Service Water Pump Structure Ventilation System

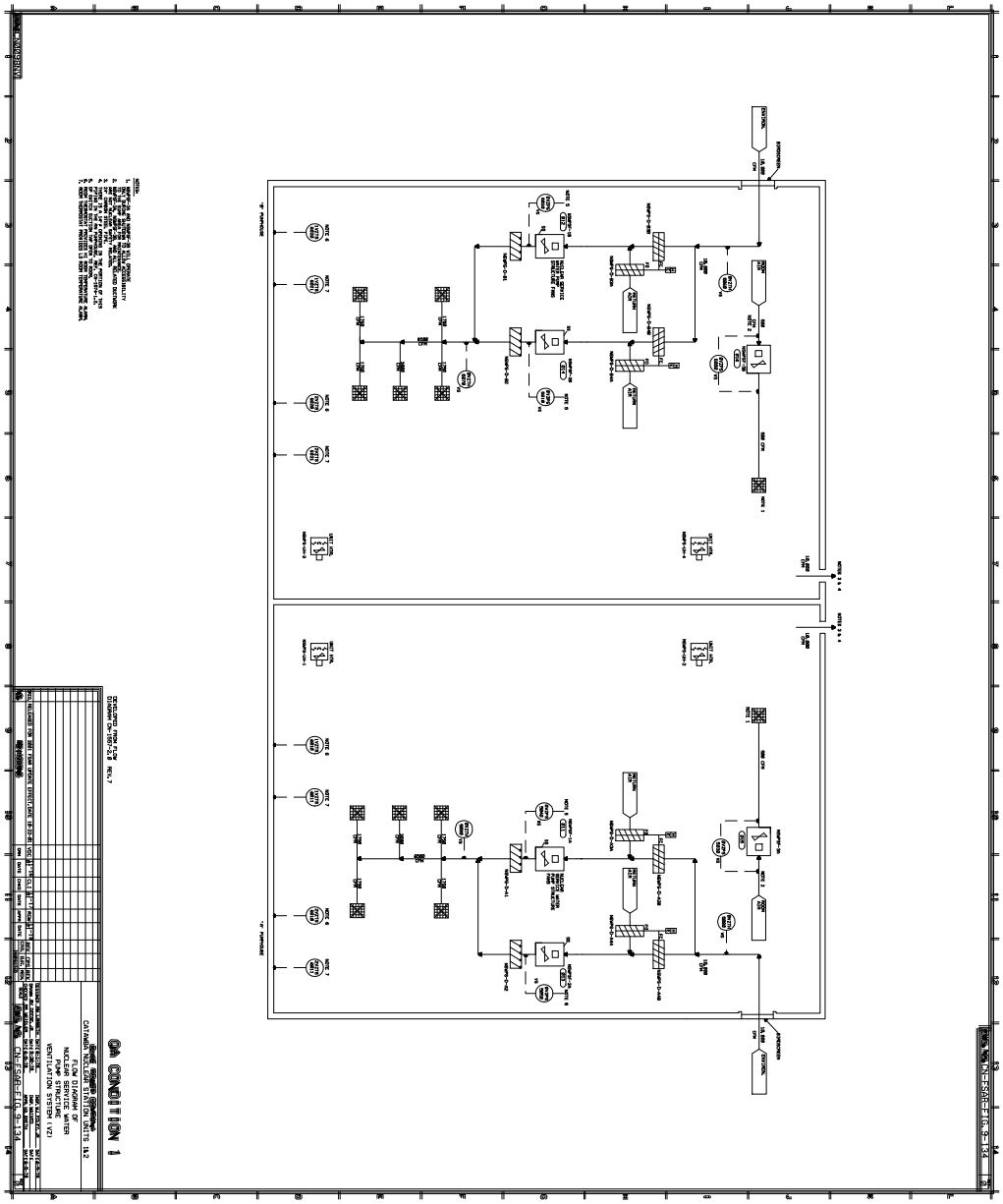

Figure 9-135. Flow Diagram of Annulus Ventilation System

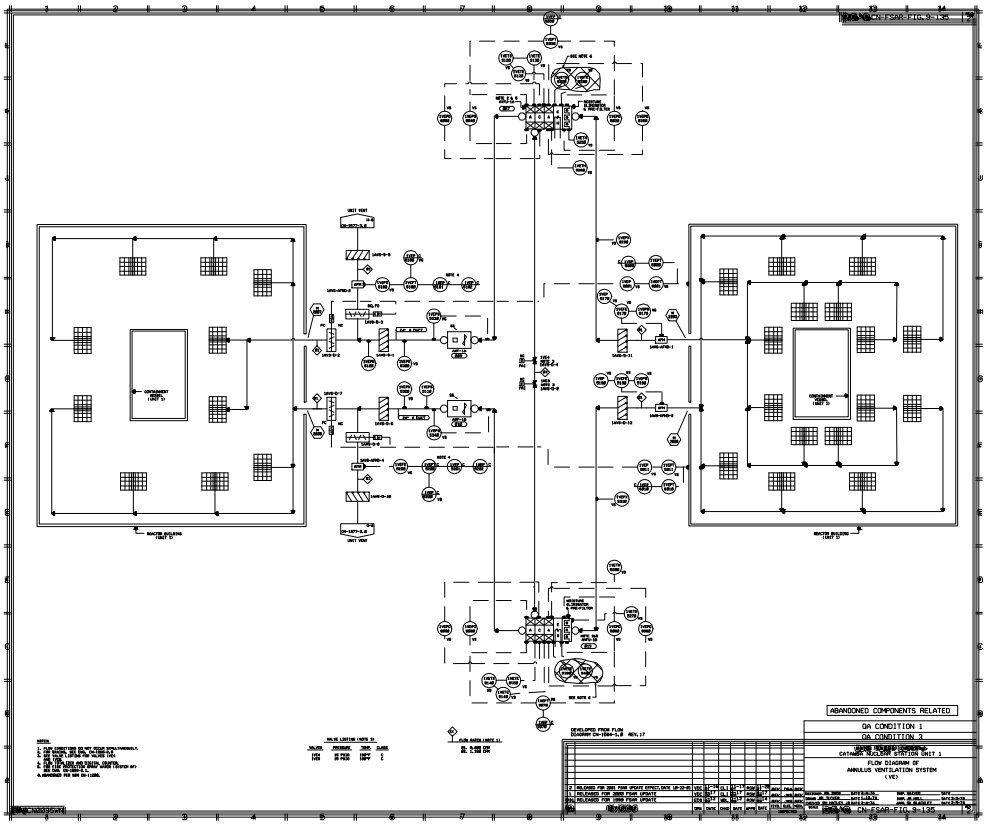

Figure 9-136. Deleted Per 2018 Update

Figure 9-137. Deleted Per 2018 Update

Figure 9-138. Deleted Per 2018 Update

Figure 9-139. Deleted Per 2018 Update

Figure 9-140. Deleted Per 2018 Update

Figure 9-141. Deleted Per 2018 Update

Figure 9-142. Deleted Per 2018 Update

Figure 9-143. Deleted Per 2018 Update

Figure 9-144. Deleted Per 2018 Update

Figure 9-145. Deleted Per 1990 Update

Figure 9-146. Deleted Per 1990 Update

Figure 9-147. Deleted Per 1990 Update

Figure 9-148. Deleted Per 1990 Update

Figure 9-149. Deleted Per 1990 Update

Figure 9-150. Deleted Per 1990 Update

Figure 9-151. Deleted Per 1990 Update

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Figure 9-157. Deleted Per 1990 Update

Figure 9-158. Deleted Per 1990 Update

Figure 9-159. Deleted Per 1990 Update

Figure 9-160. Deleted Per 1990 Update

Figure 9-161. Deleted Per 1990 Update

Figure 9-162. Deleted Per 1990 Update

Figure 9-163. Deleted Per 1990 Update

Figure 9-164. Deleted Per 1990 Update

Figure 9-165. Deleted Per 1990 Update

Figure 9-166. Deleted Per 1990 Update

Figure 9-167. Deleted Per 1990 Update

Figure 9-168. Deleted Per 1990 Update

Figure 9-169. Flow Diagram of Diesel Generator Engine Fuel Oil System

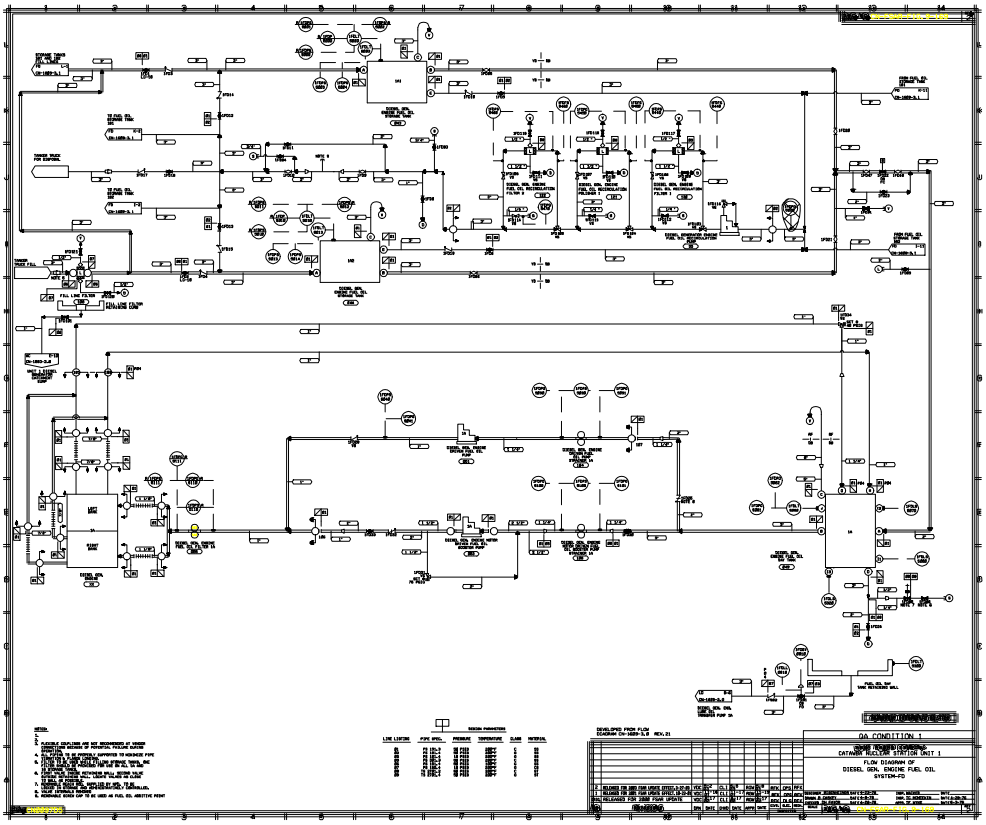

Figure 9-170. Flow Diagram of Diesel Generator Engine Fuel Oil System

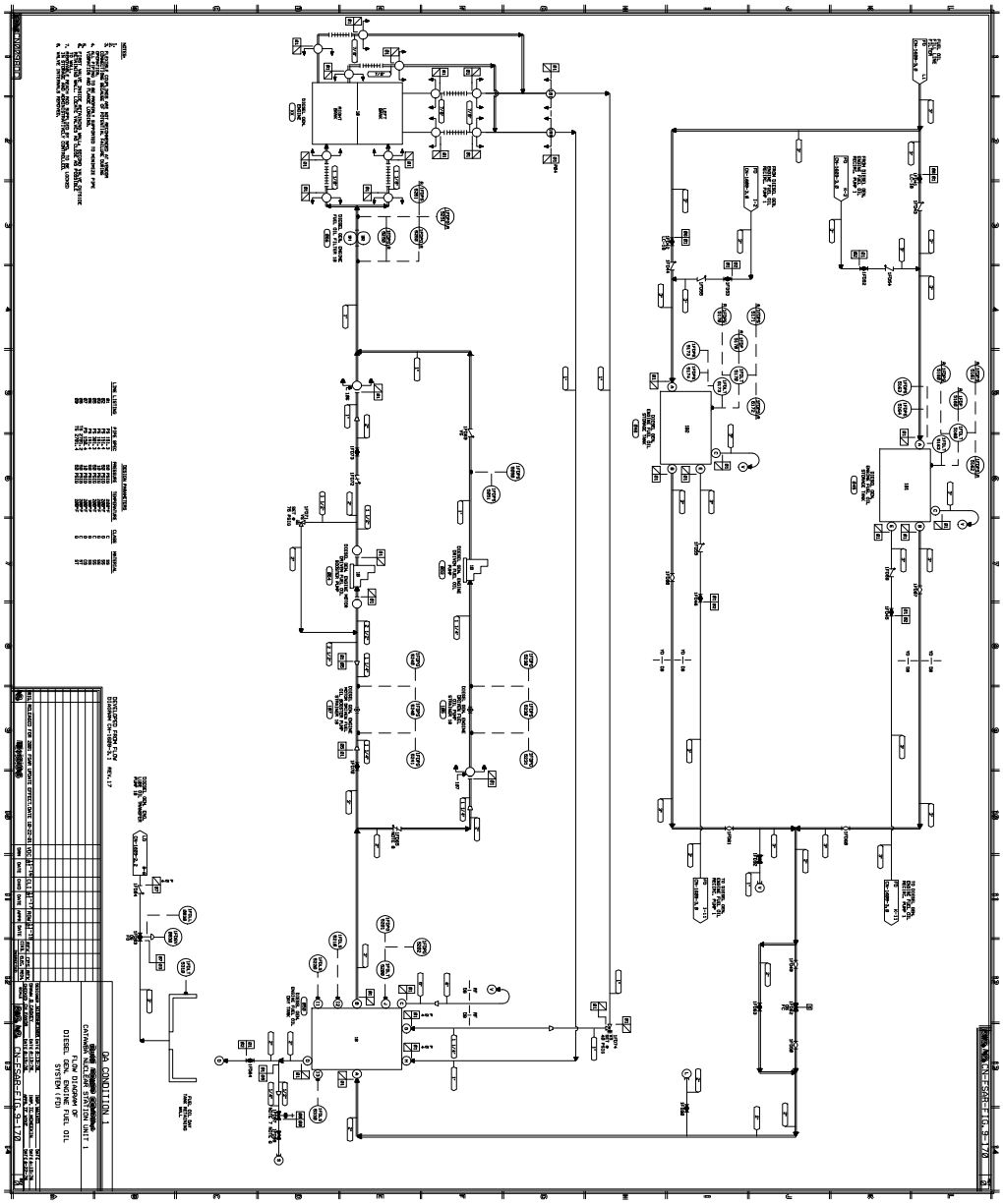

Figure 9-171. Diesel Generator Building Plan @ Elevation 556+0

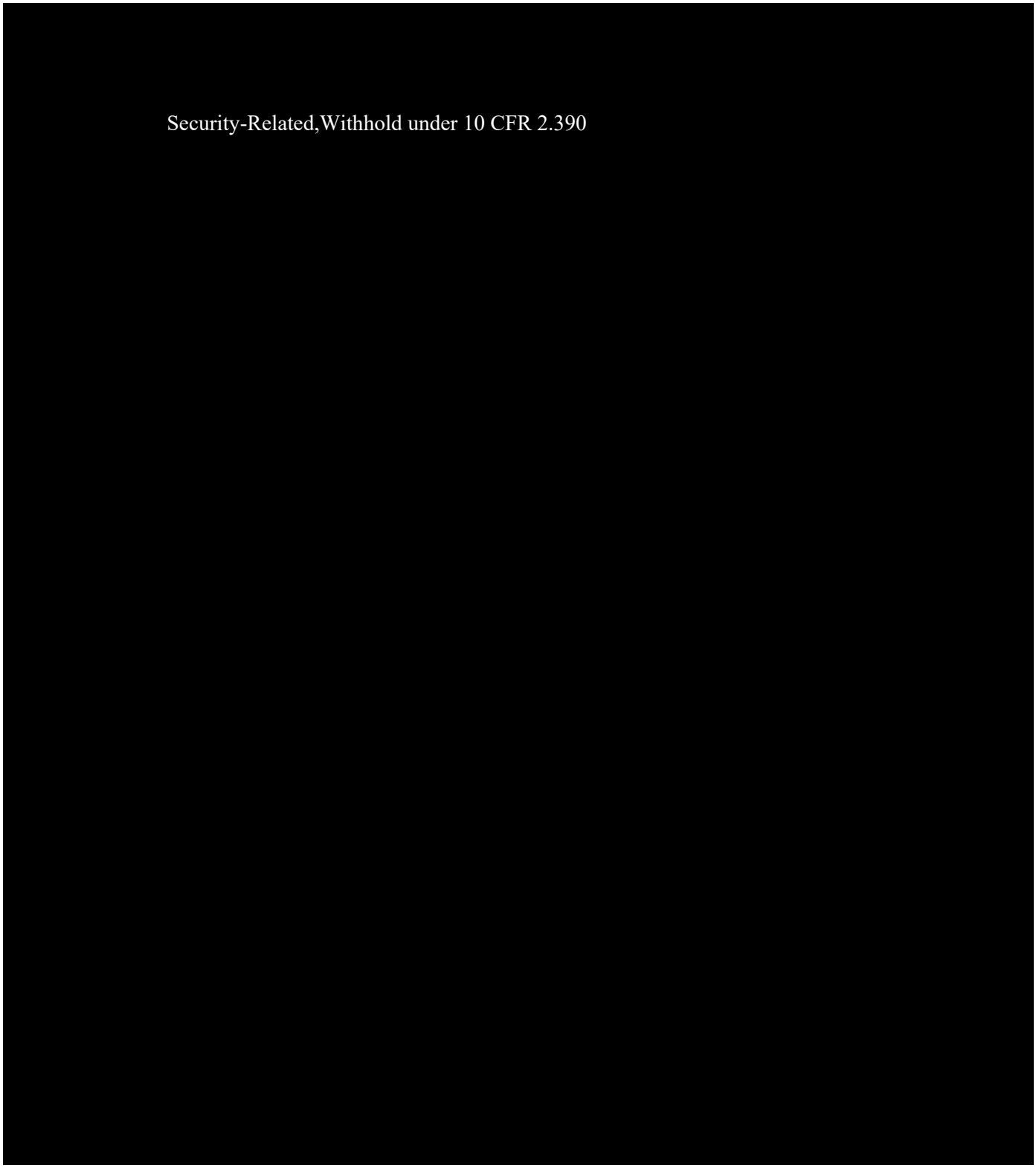

Figure 9-172. Diesel Generator Building Plan @ Elevation 556+0

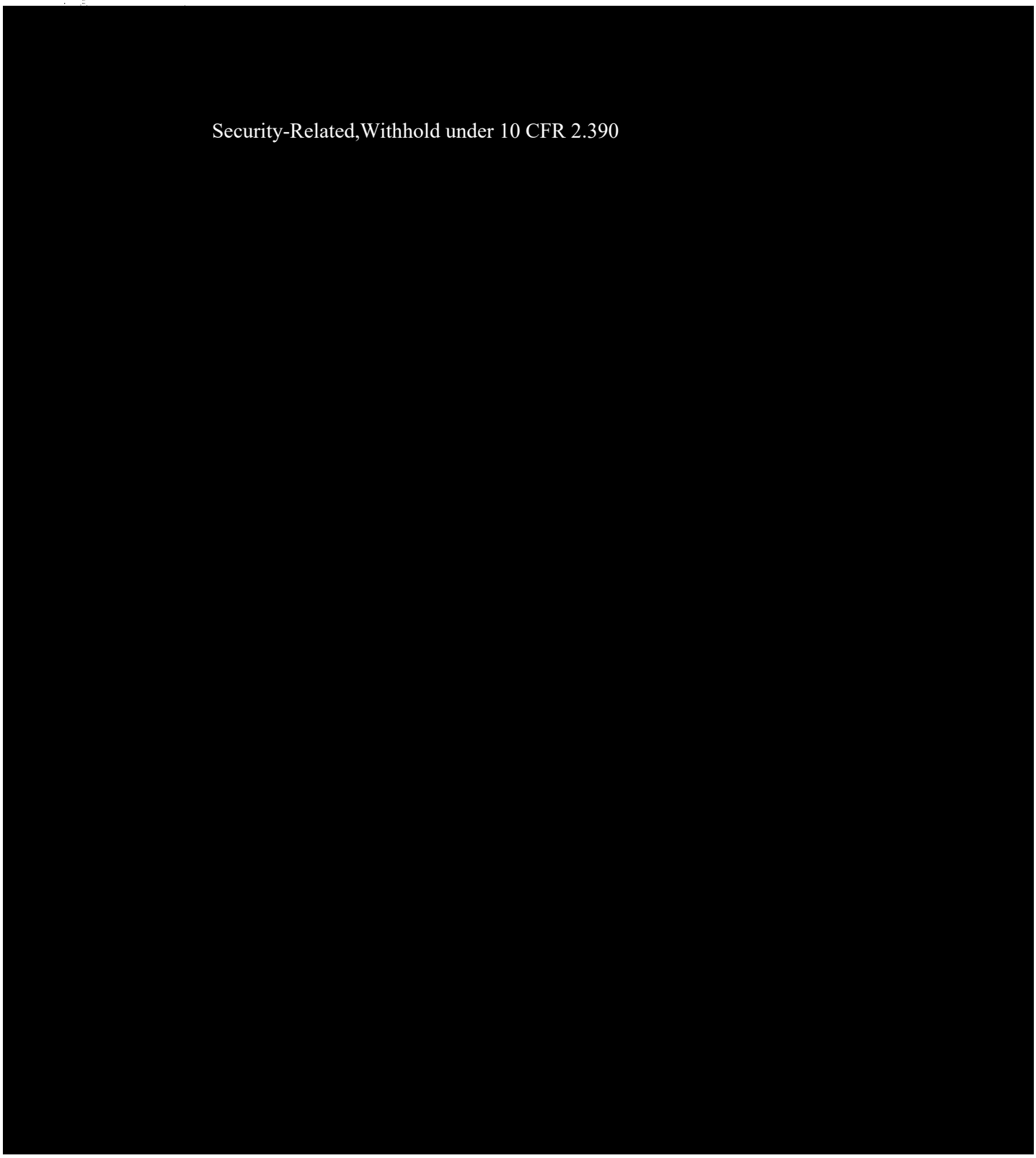

Figure 9-173. Diesel Generator Building Plan @ Elevation 556+0

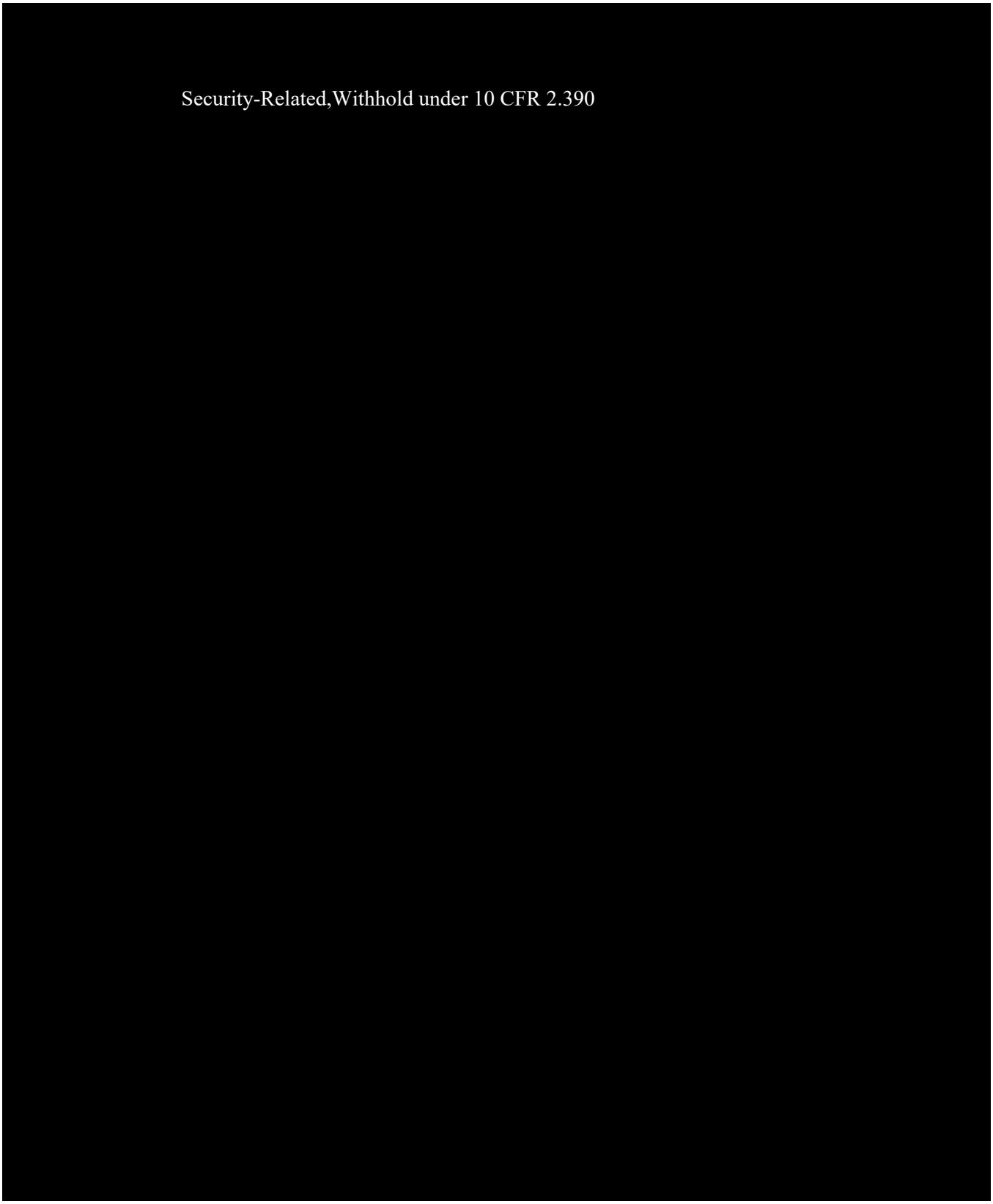

Figure 9-174. Diesel Generator Building Plan @ Elevation 556+0

Figure 9-175. Diesel Generator Building Plan @ Elevation 556+0

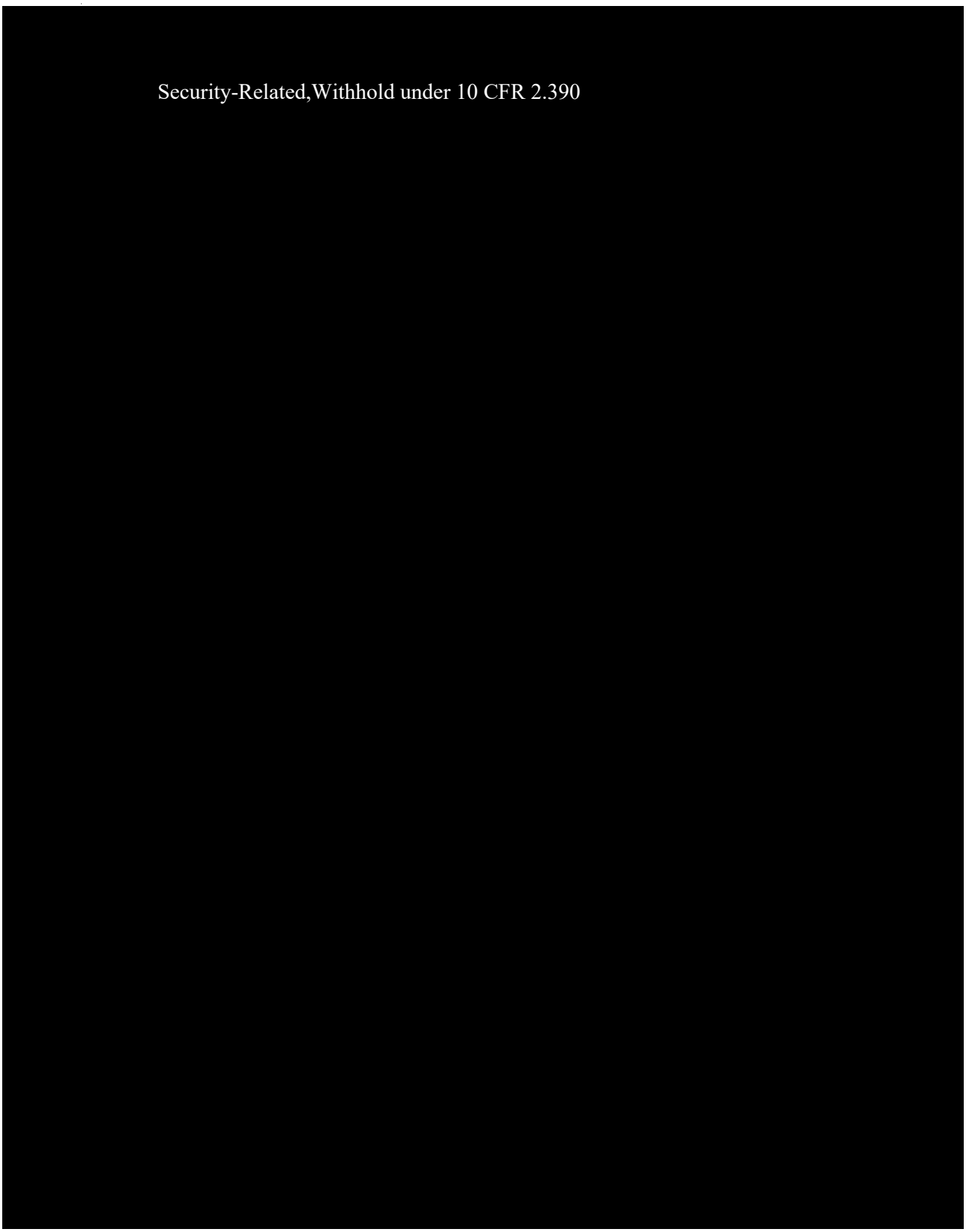

Figure 9-176. Diesel Generator Building Plan @ Elevation 556+0

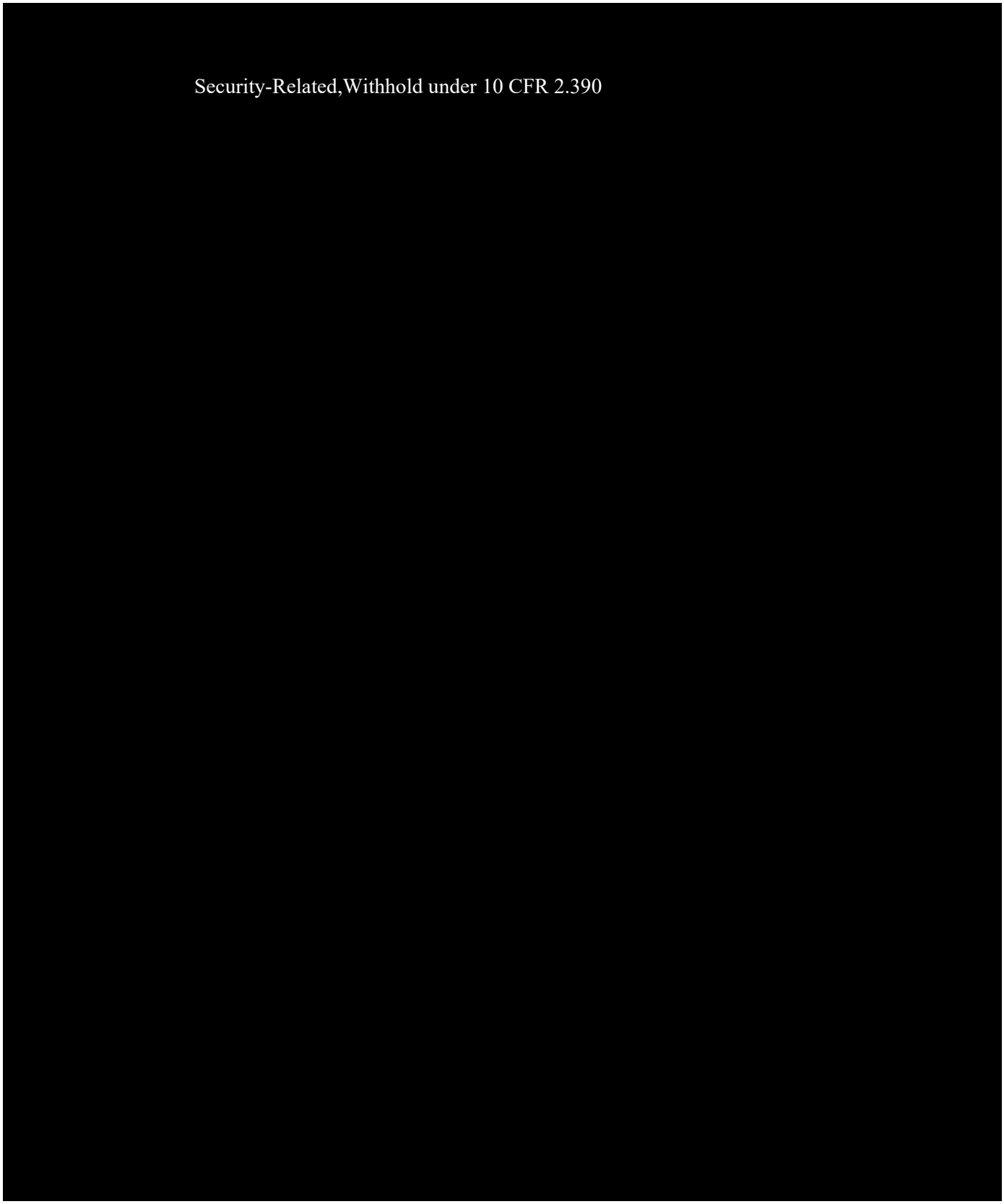

Figure 9-177. Diesel Generator Building Plan @ Elevation 556+0

Figure 9-178. Exterior Miscellaneous Piping

Figure 9-179. Exterior Miscellaneous Piping

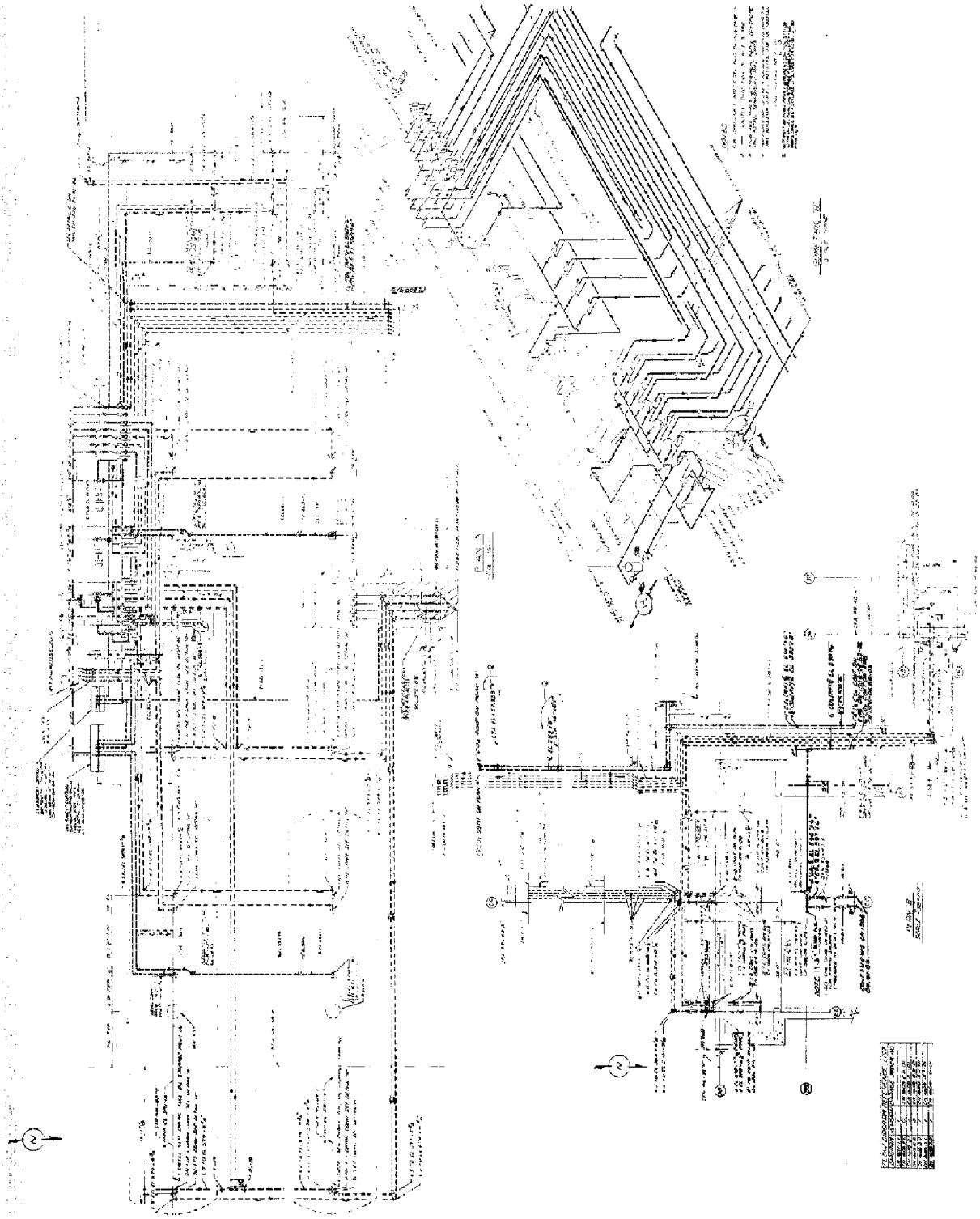

Figure 9-180. Exterior Miscellaneous Piping

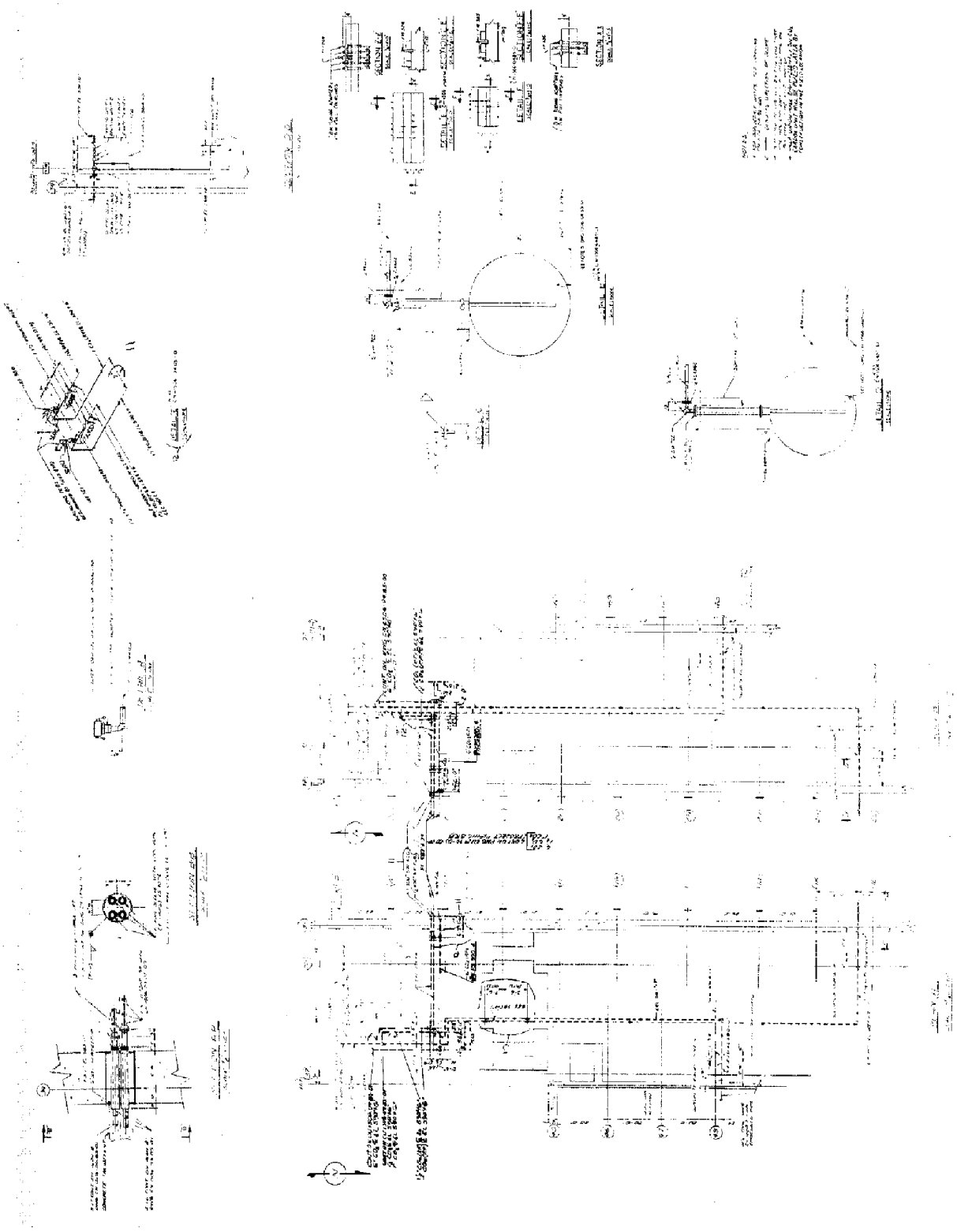

Figure 9-181. HVAC Diesel Generator Rooms

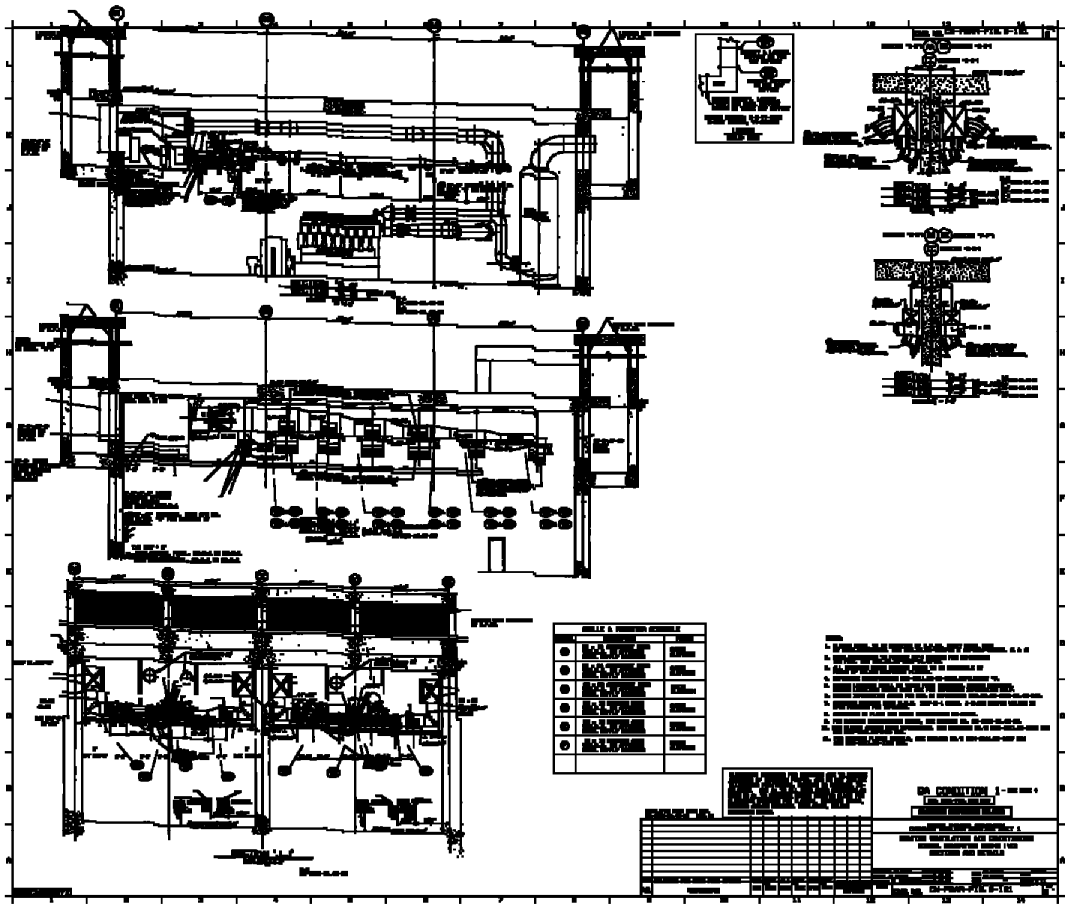

Figure 9-182. Flow Diagram of Diesel Generator Engine Cooling Water System

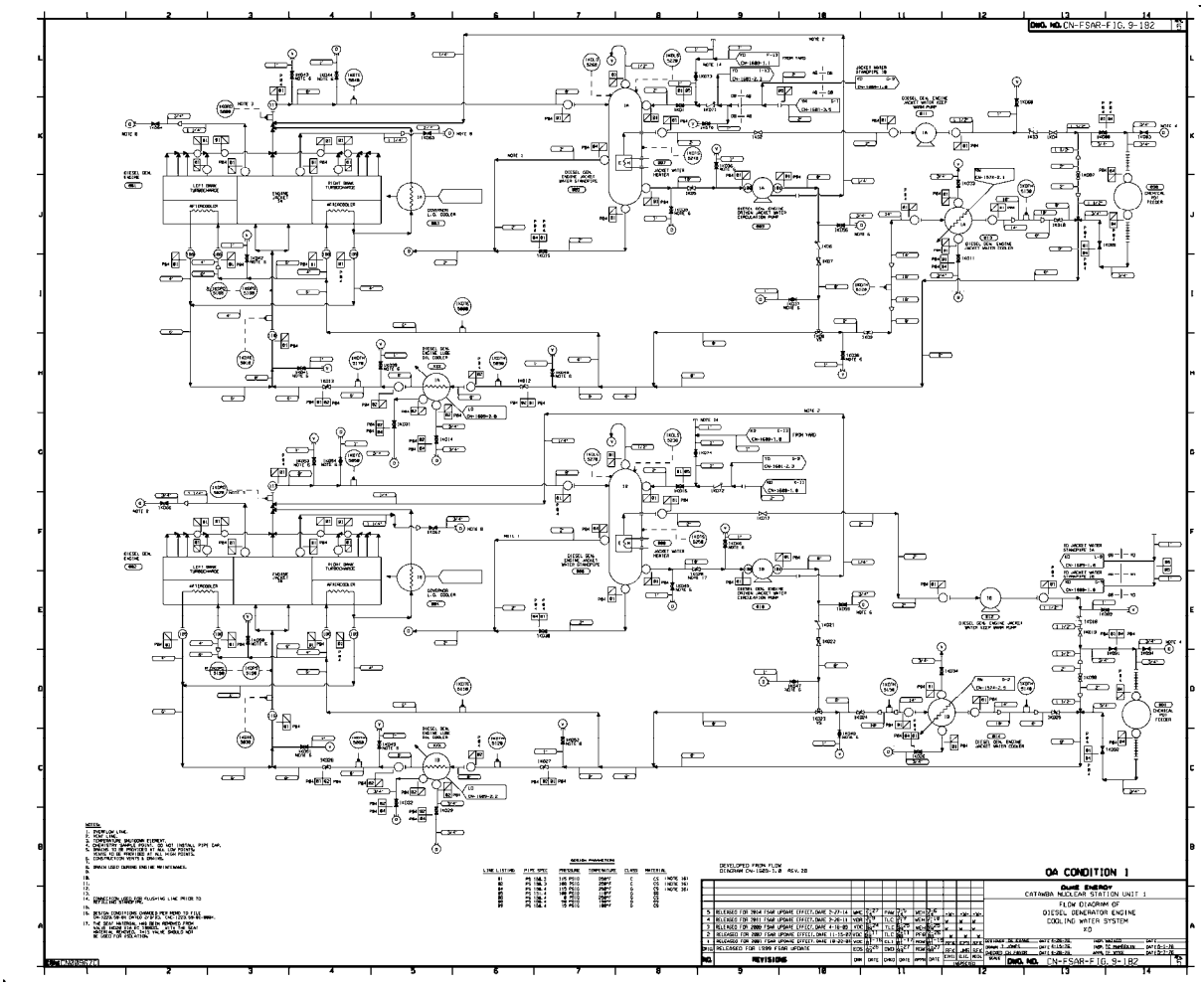

Figure 9-183. Flow Diagram of Diesel Generator Engine Starting Air System

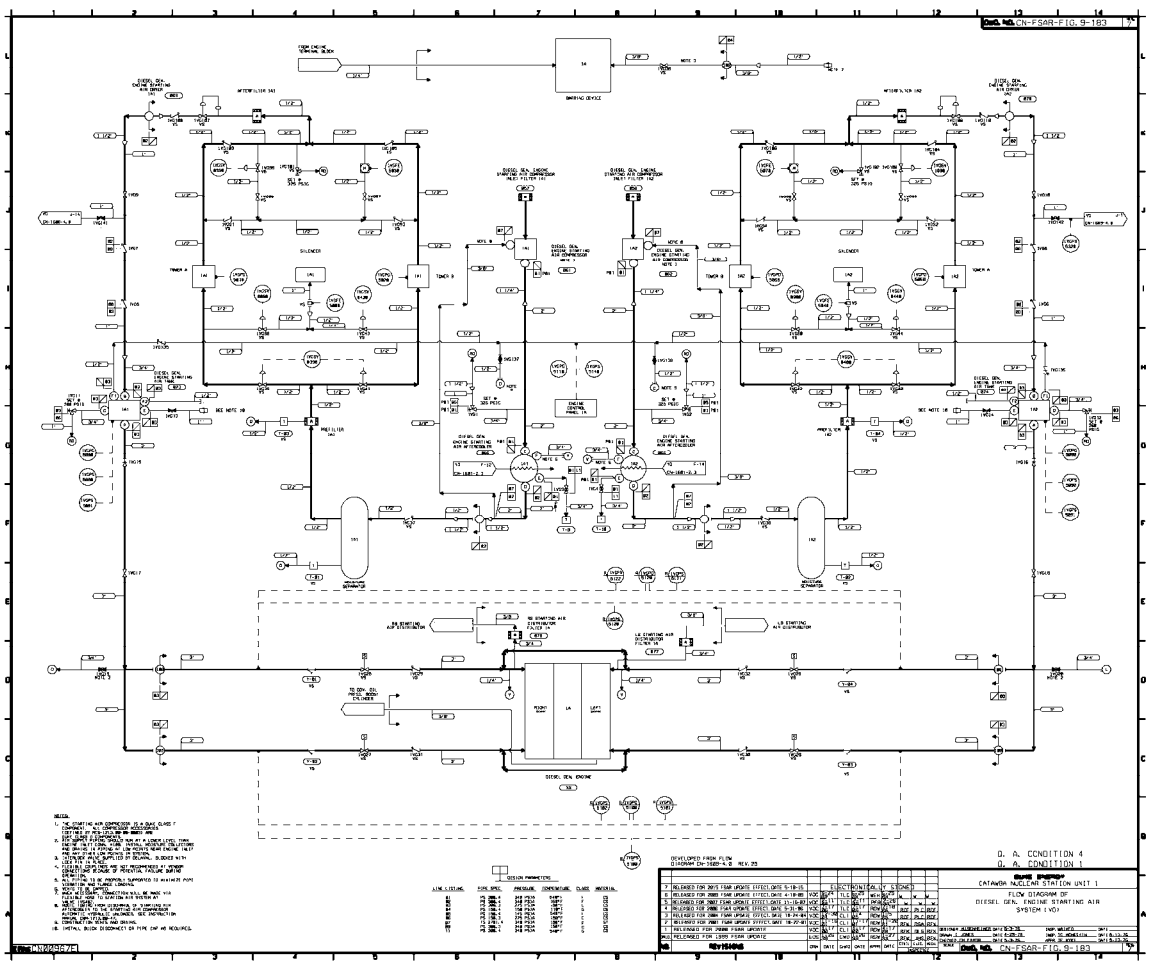

Figure 9-184. Flow Diagram of Diesel Generator Engine Starting Air System

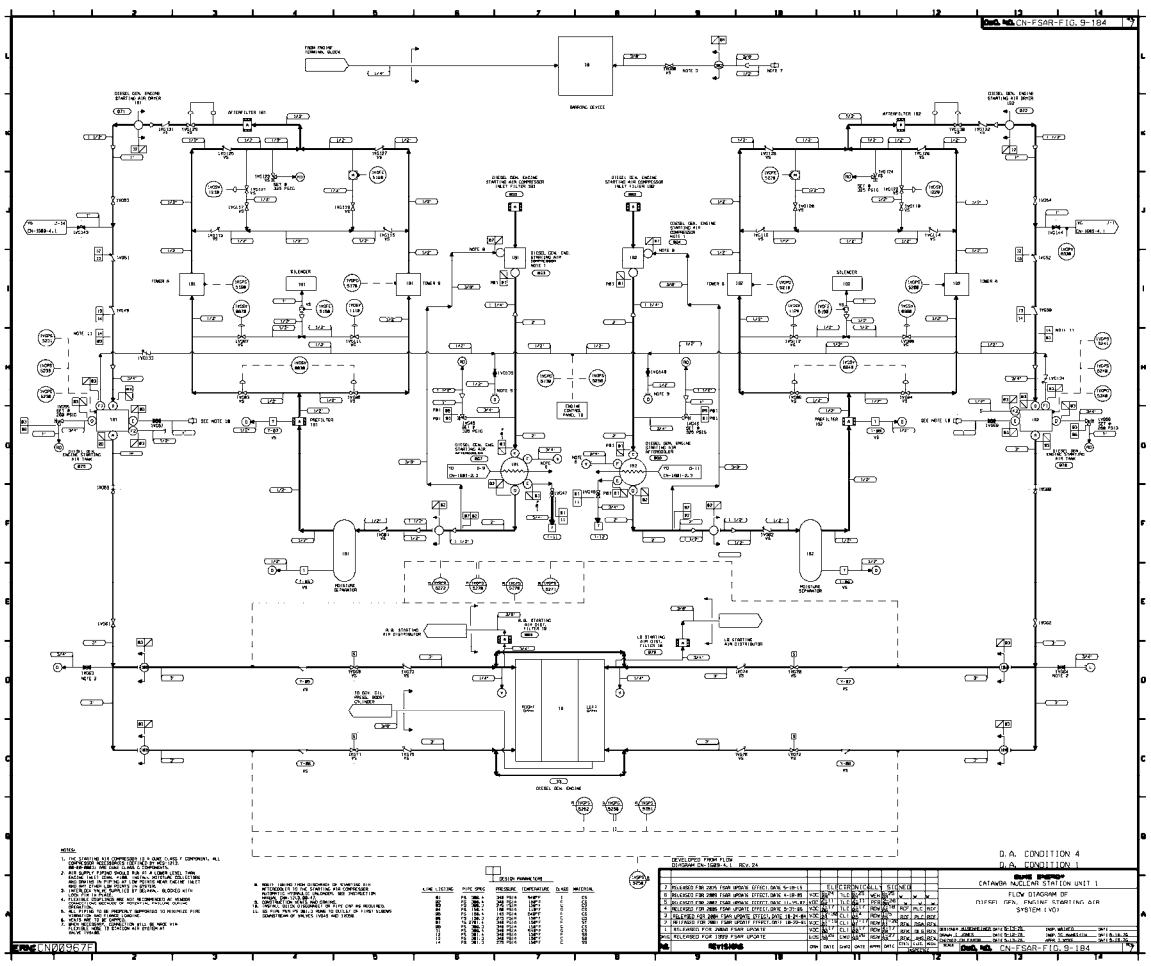

Figure 9-185. Flow Diagram of Diesel Generator Engine Lube Oil System

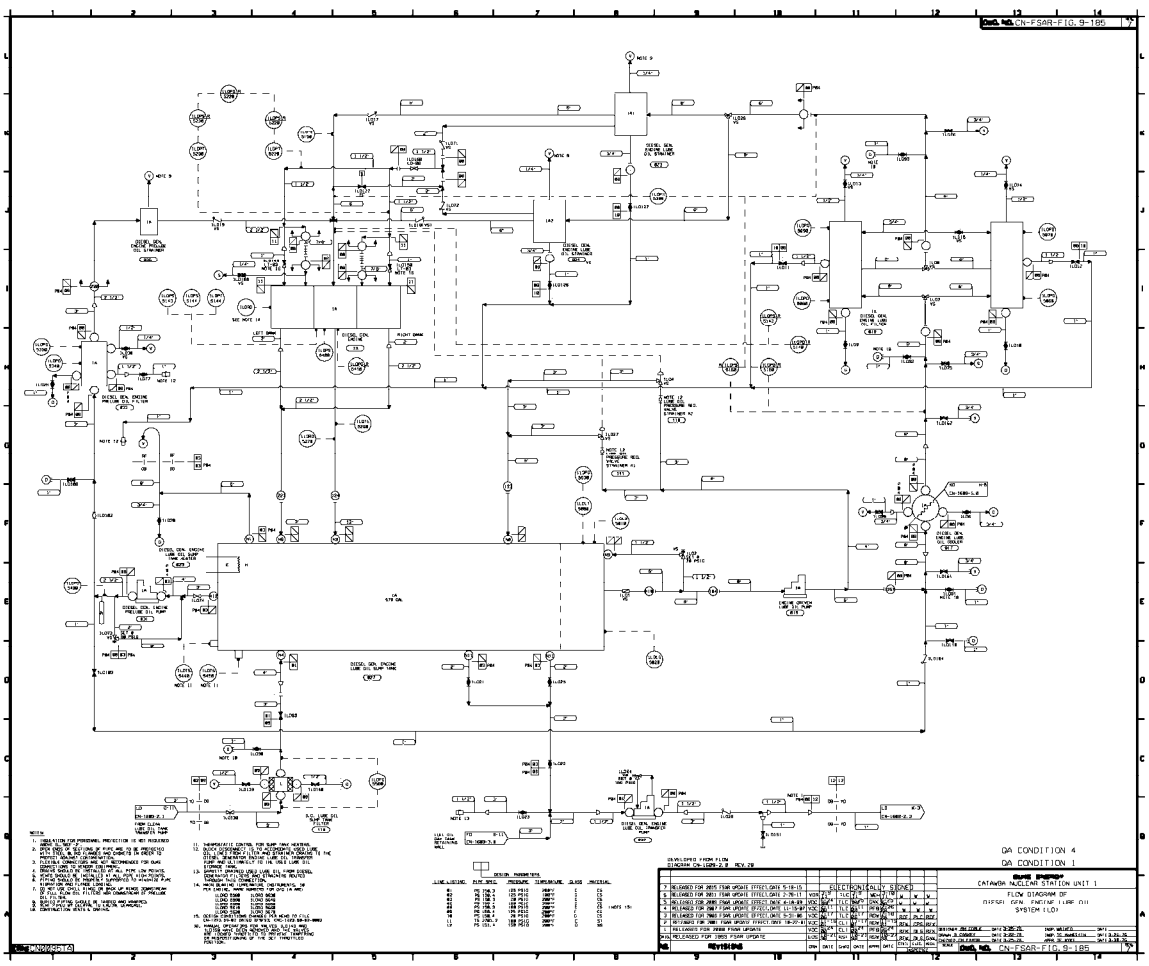

Figure 9-186. Flow Diagram of Diesel Generator Engine Lube Oil System

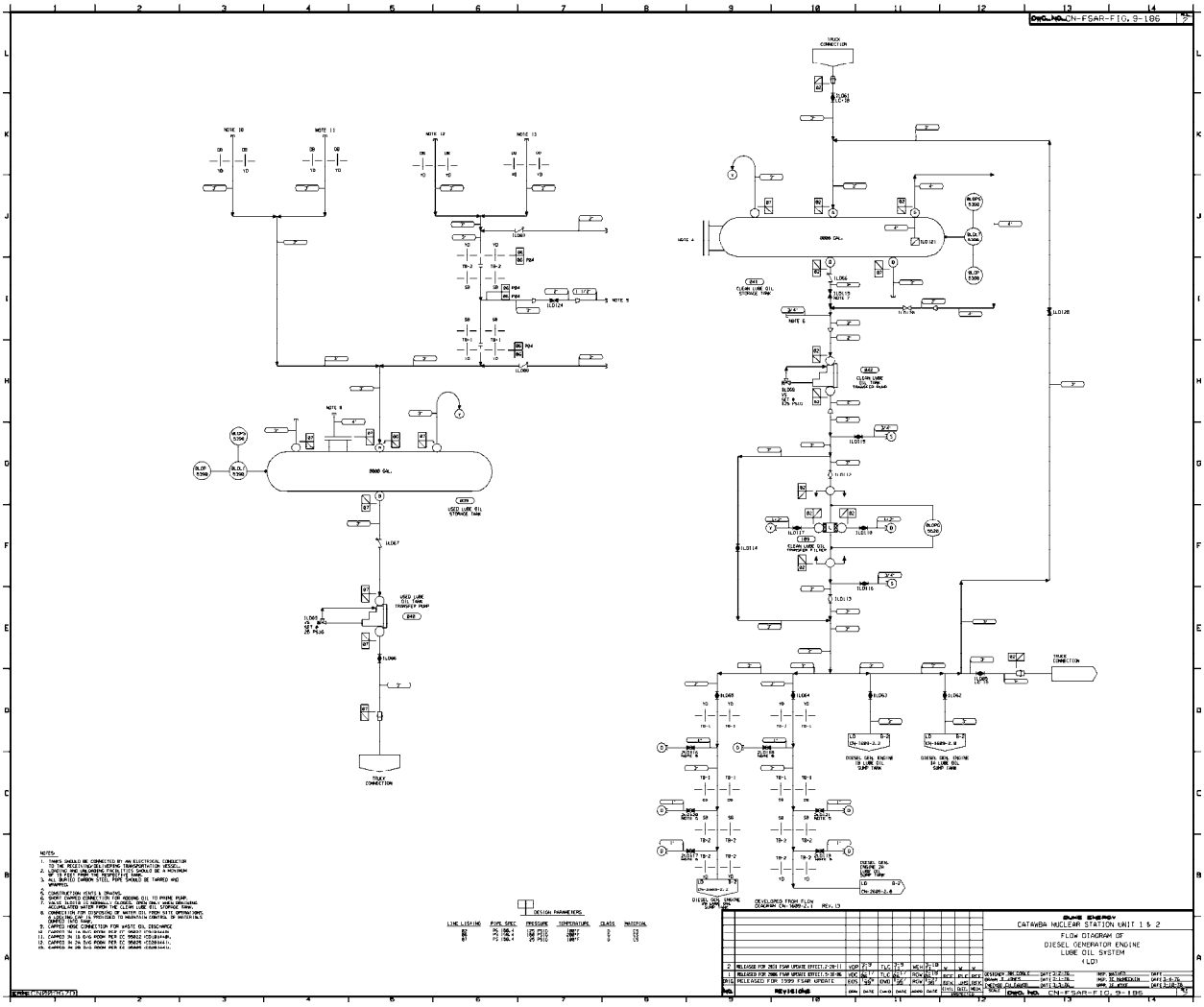

Figure 9-187. Flow Diagram of Diesel Generator Engine Lube Oil System

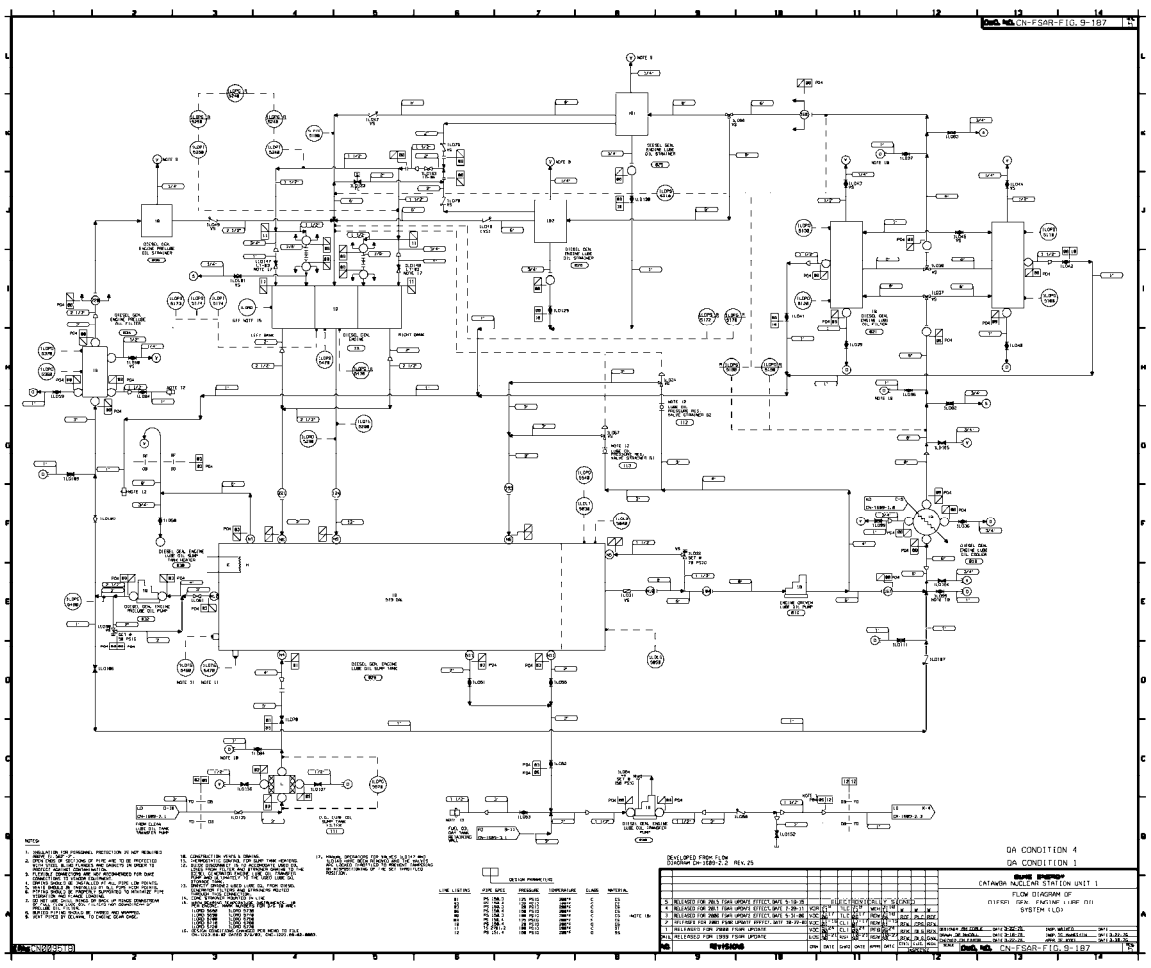

Figure 9-188. Flow Diagram of Diesel Generator Engine Air Intake and Exhaust System

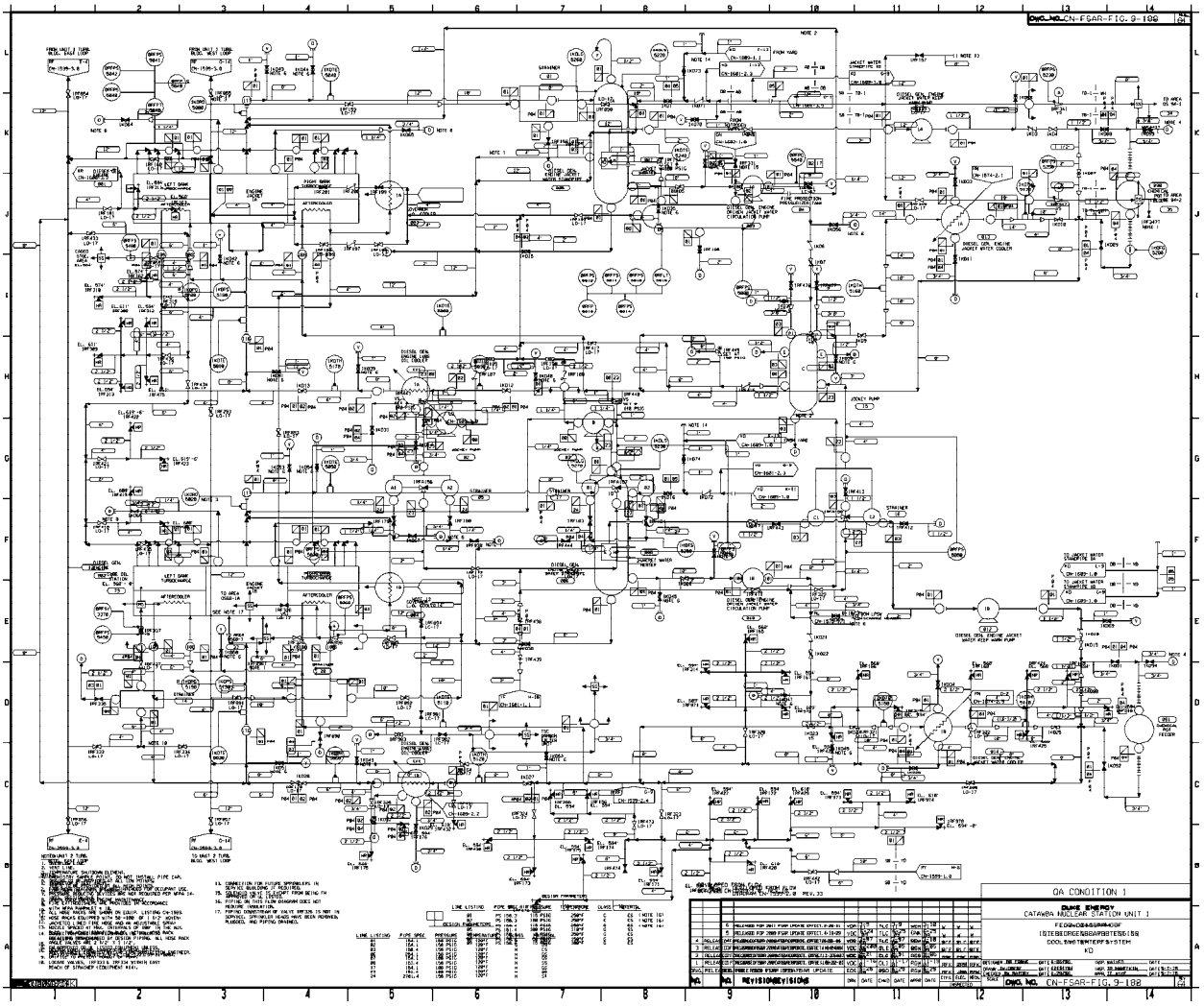

Figure 9-189. Diesel Generator Area Unit 1 General Arrangement

Figure 9-190. Diesel Generator Area Unit 1 General Arrangement

Figure 9-191. Diesel Generator Area Unit 1 General Arrangement

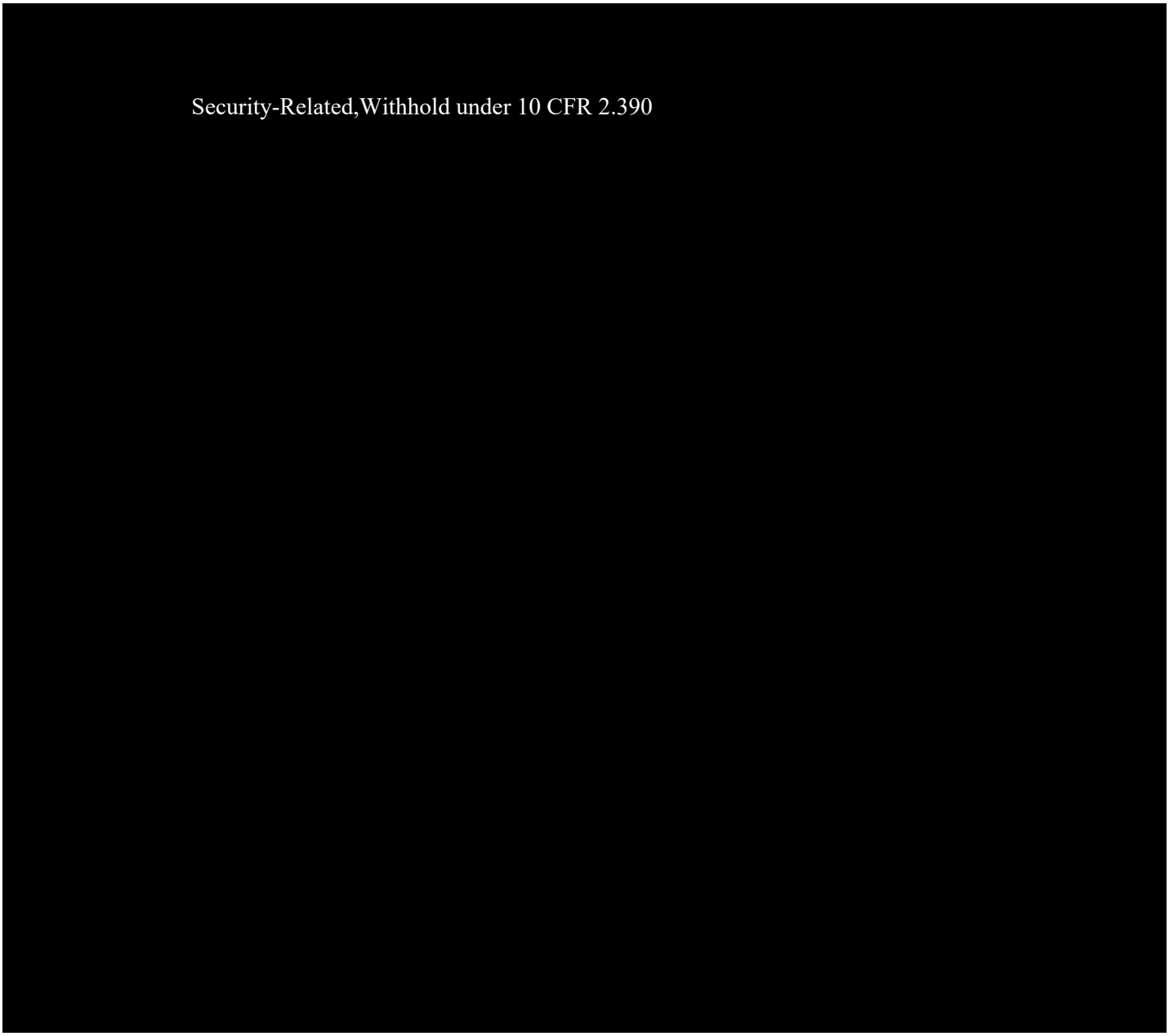

Figure 9-192. Diesel Generator Rooms HVAC

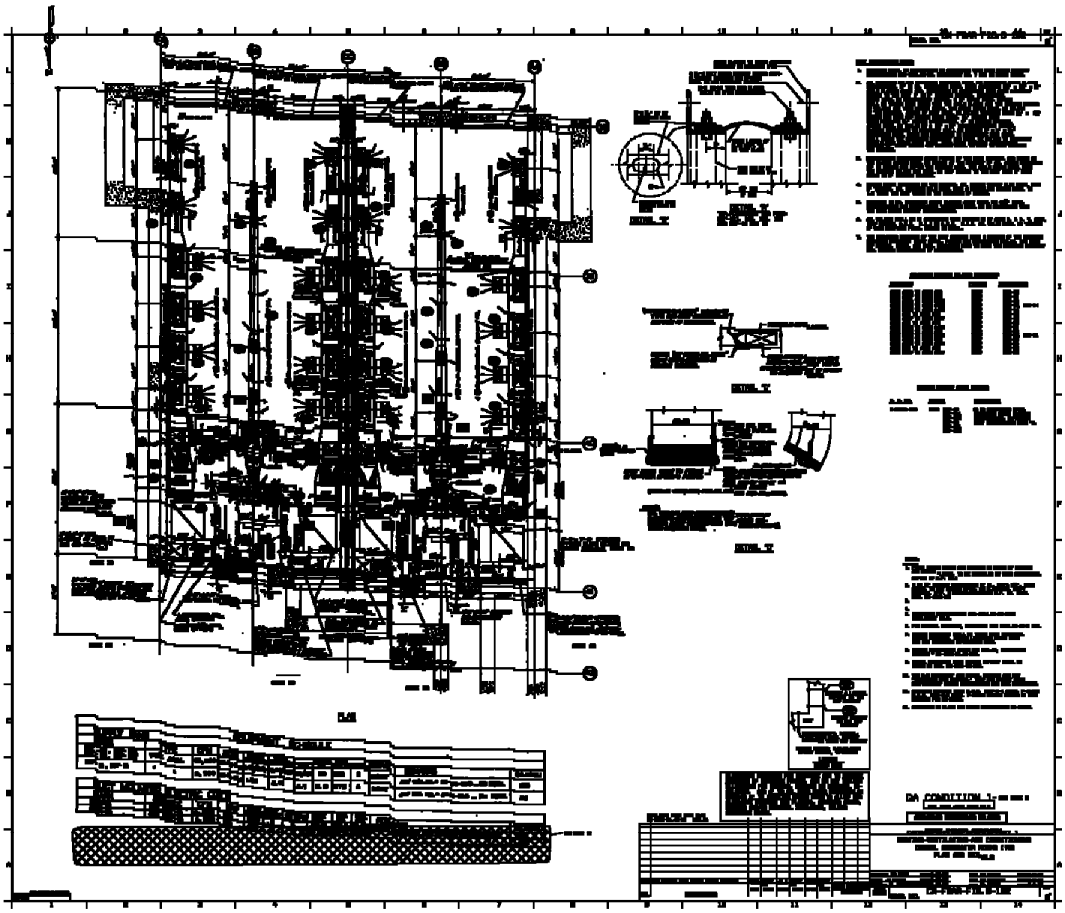

Figure 9-193. Flow Diagram of Diesel Generator Room Sump Pump System

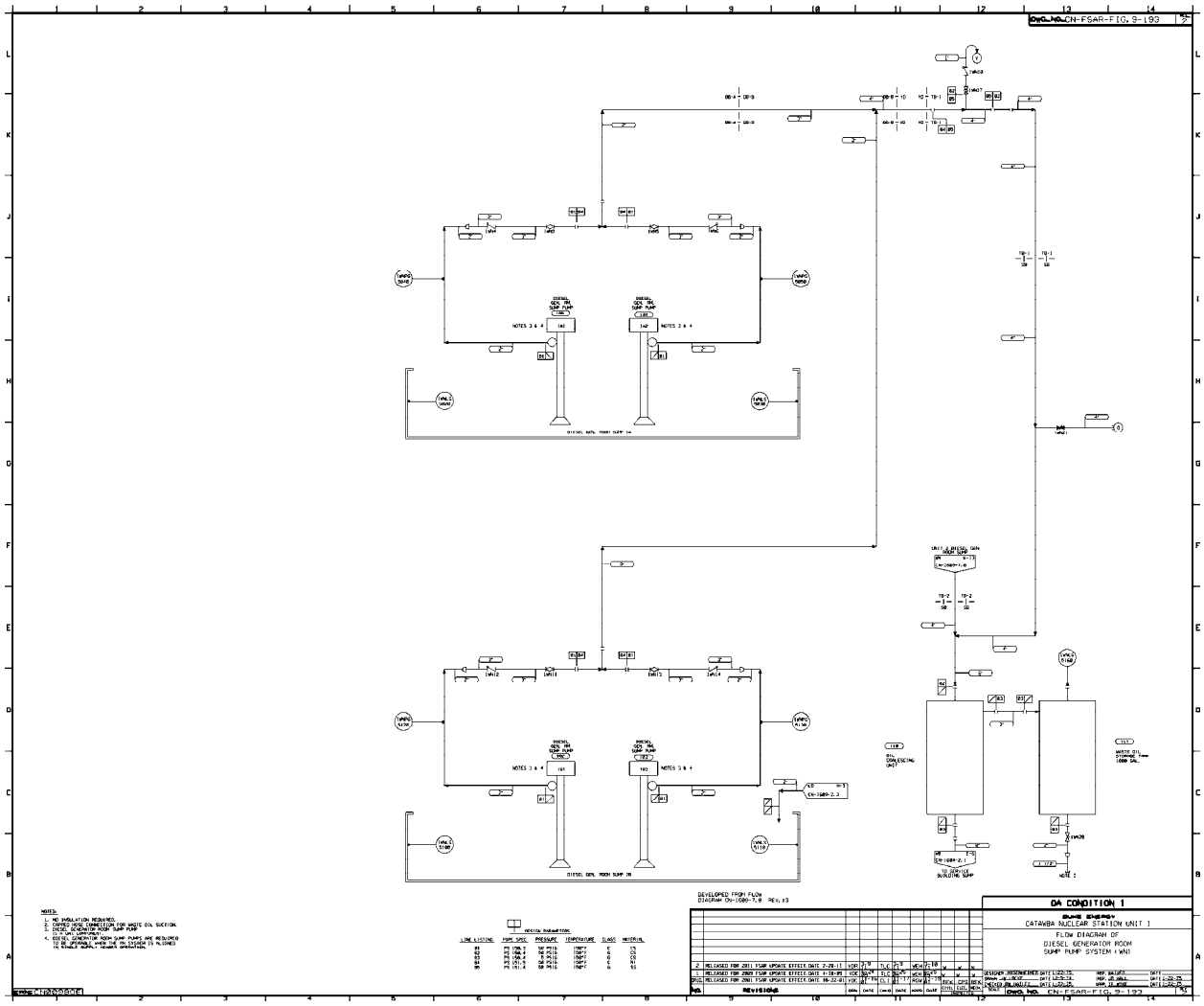

Figure 9-194. Flow Diagram of Containment Air Release and Addition System

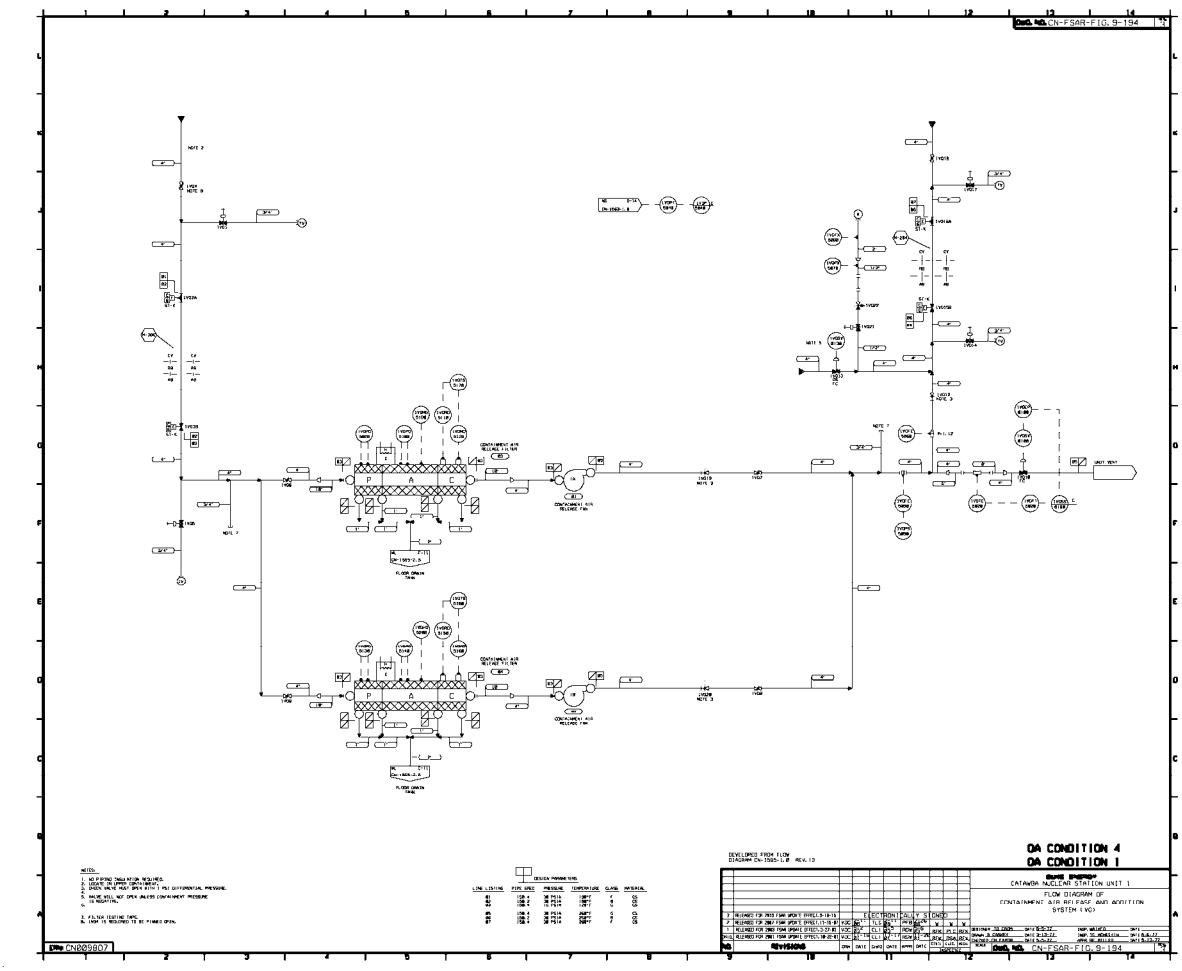

Figure 9-195. Flow Diagram of Groundwater System

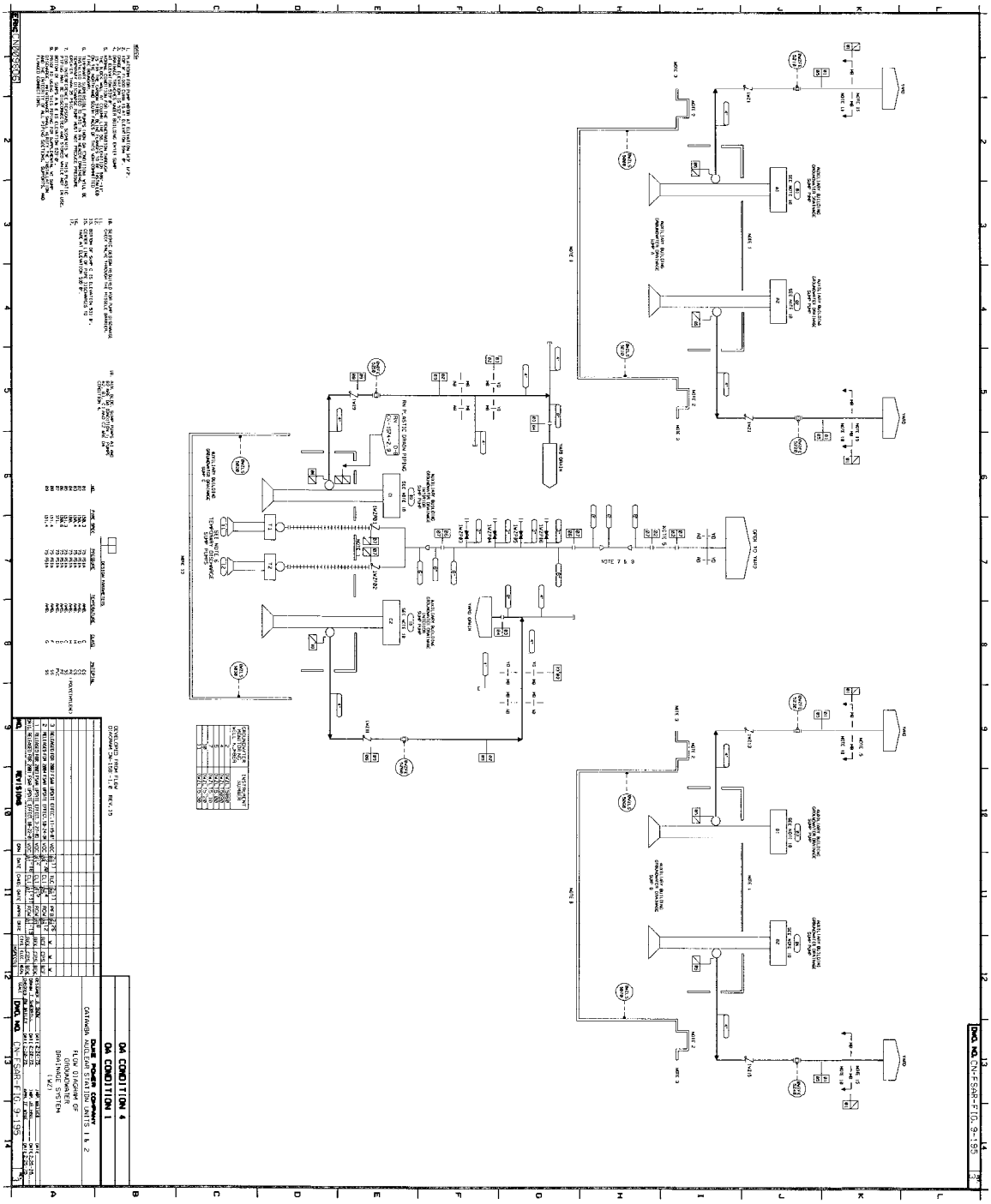

Figure 9-196. Flow Diagram of Groundwater System

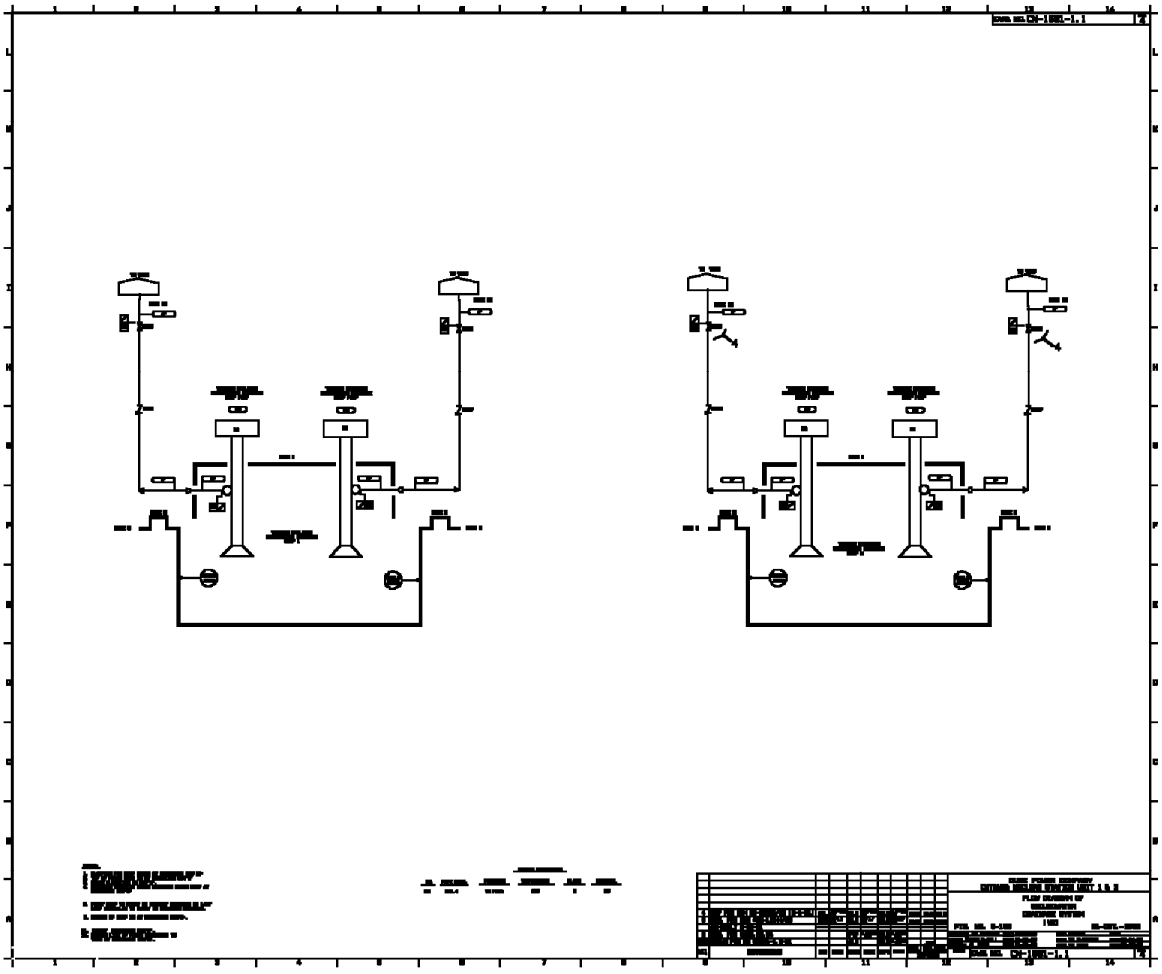

Figure 9-197. Deleted Per 2001 Update

Figure 9-198. Deleted Per 2001 Update

Figure 9-199. Deleted Per 2001 Update

Figure 9-200. Boron Recycle System

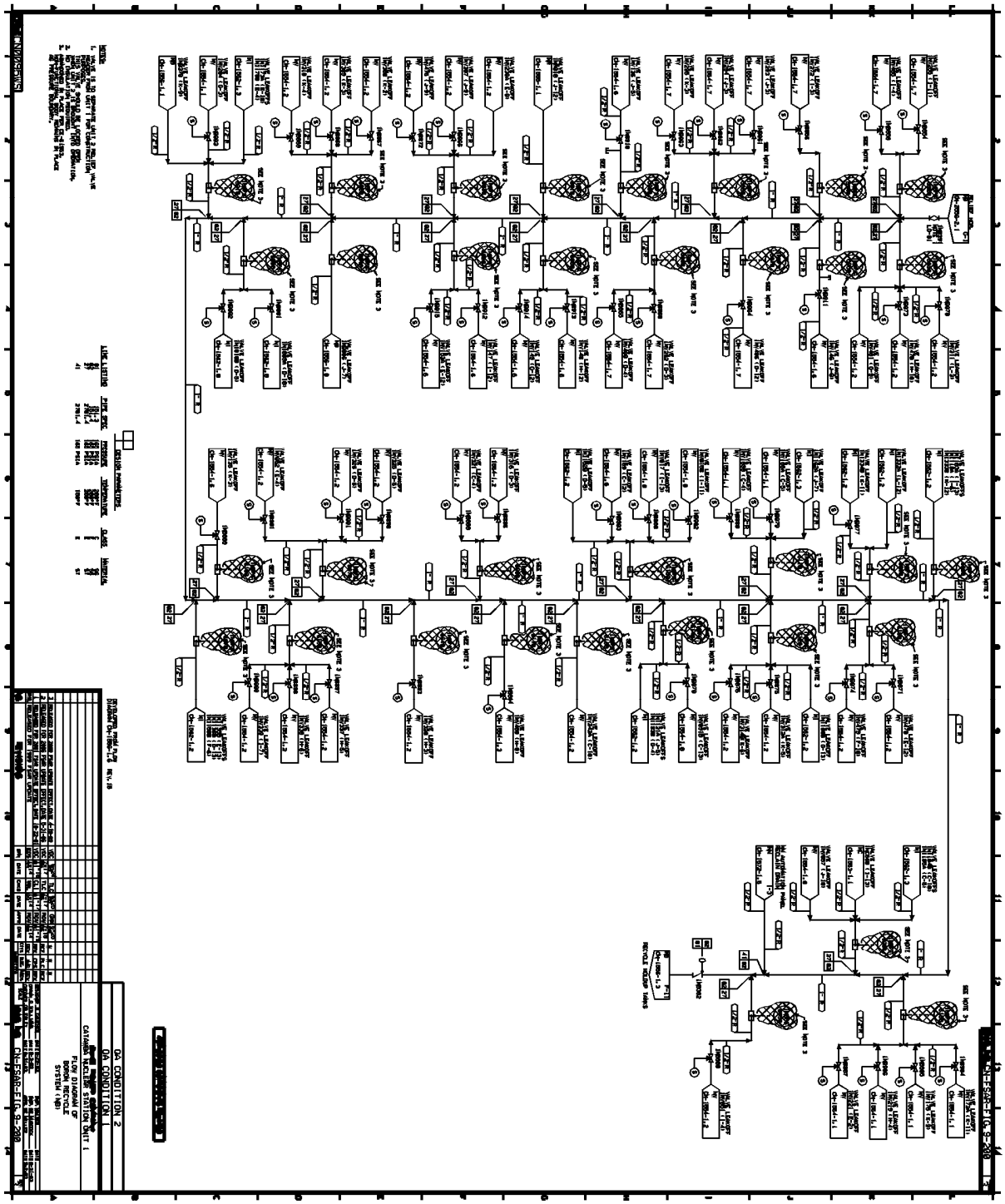

Figure 9-201. Nuclear Sampling System

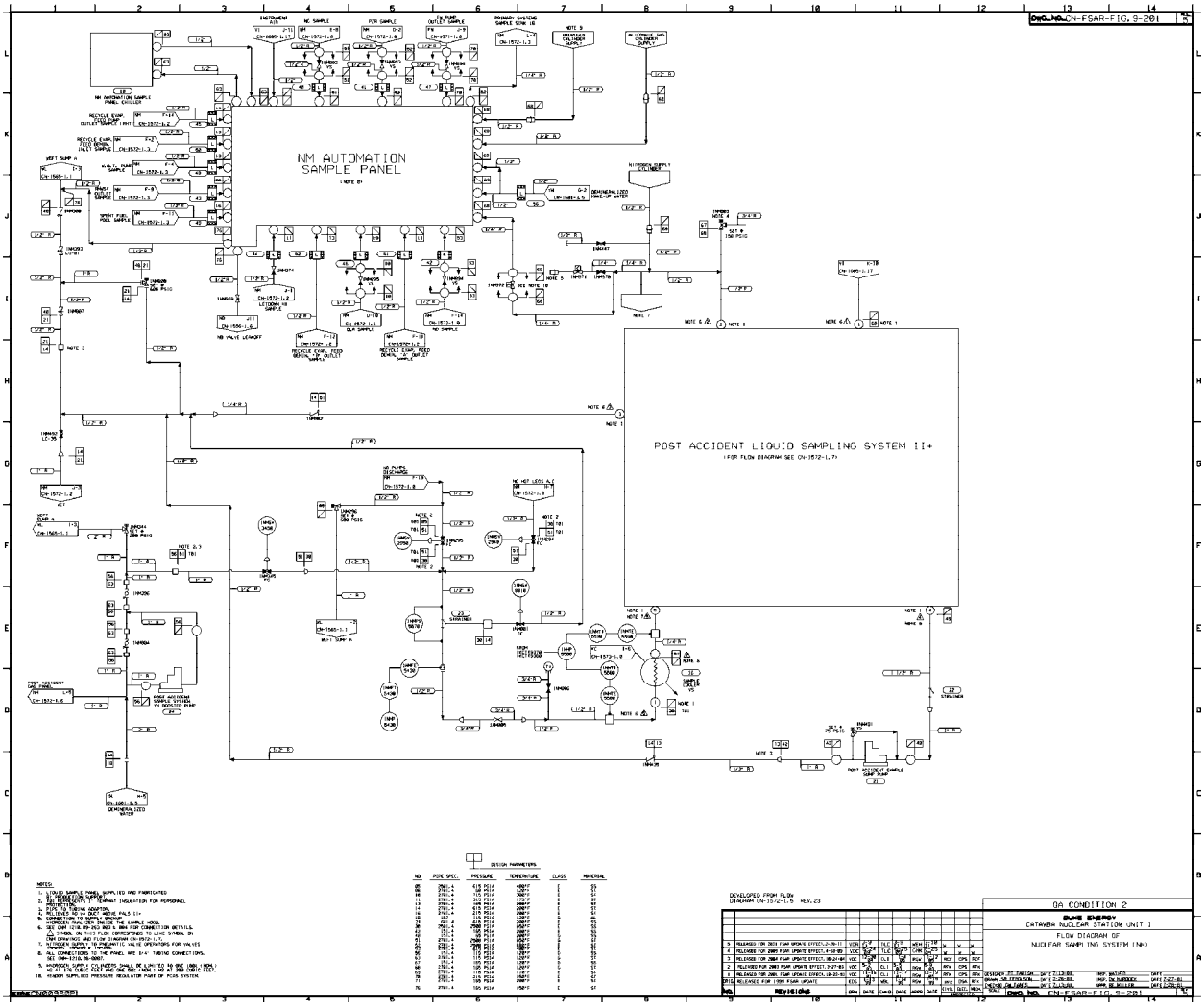

Figure 9-202. Nuclear Sampling System

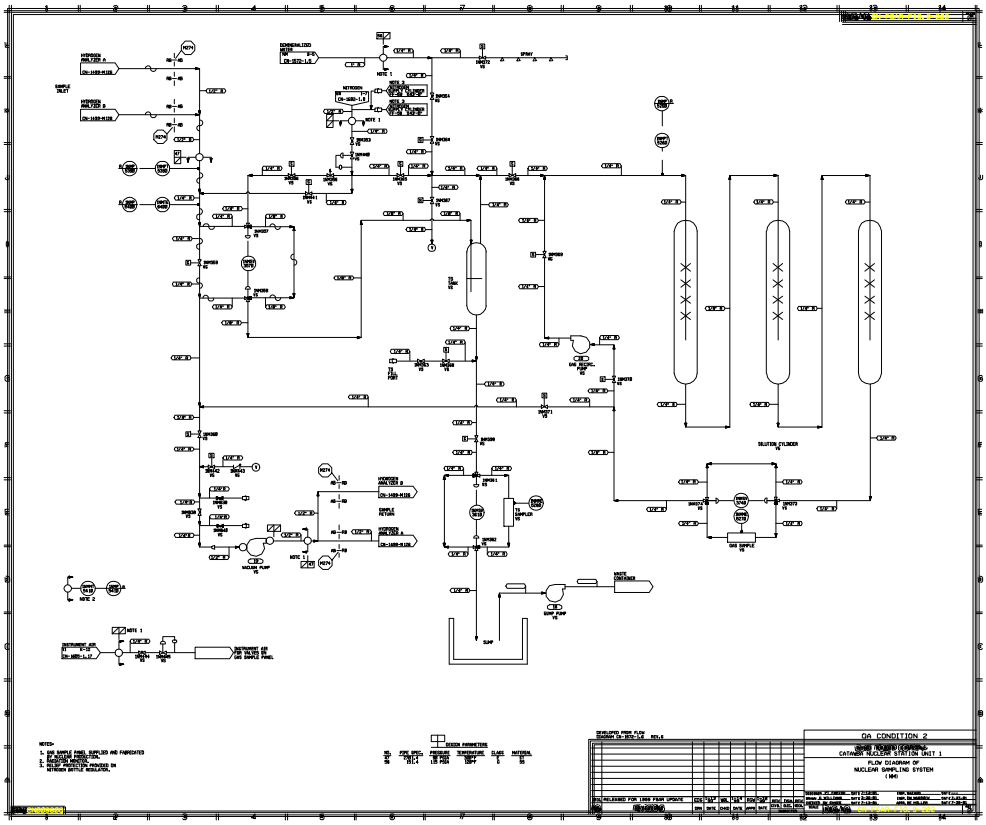

Figure 9-203. Nuclear Sampling System

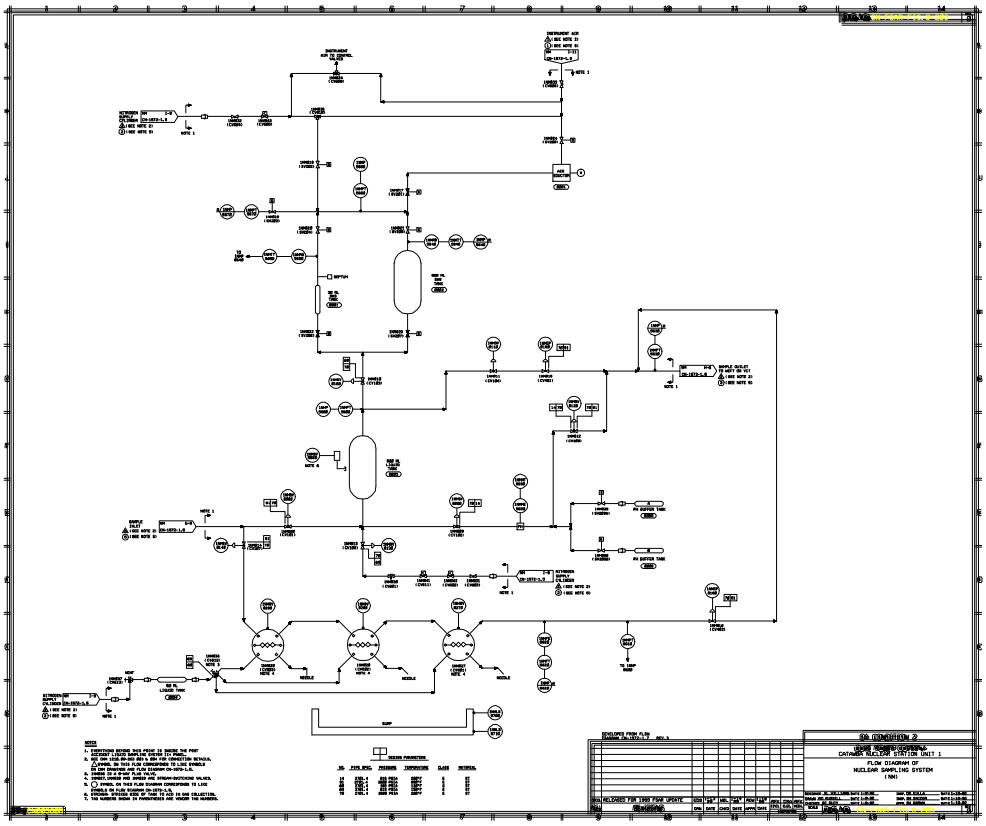

Figure 9-204. Component Cooling System

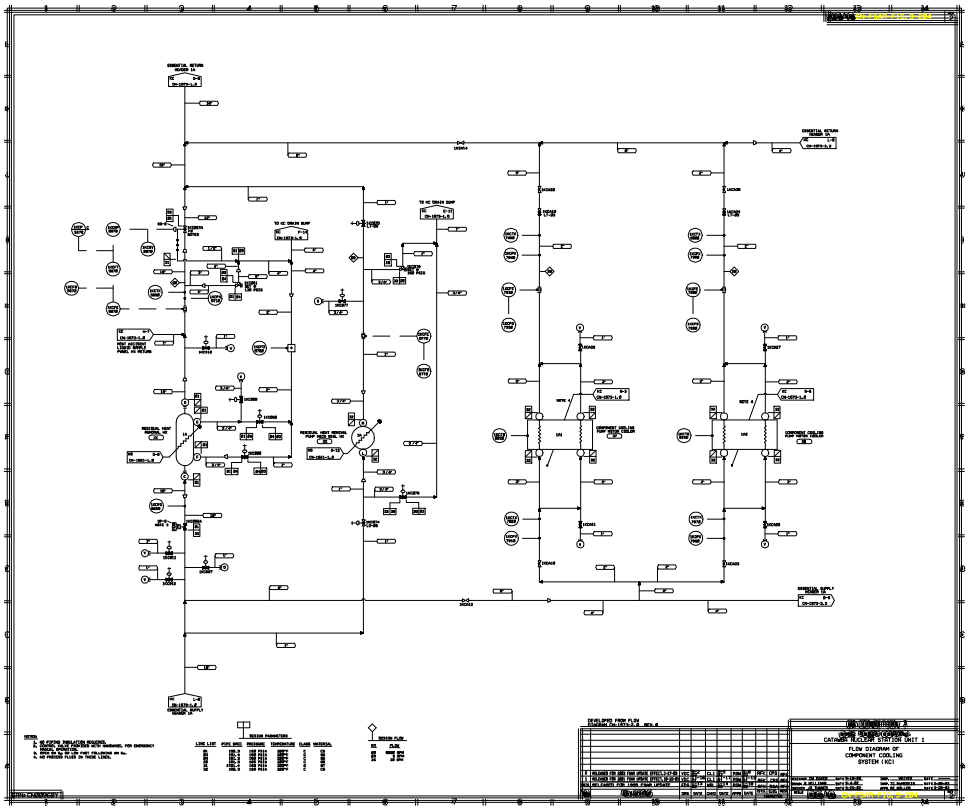

Figure 9-205. Component Cooling System

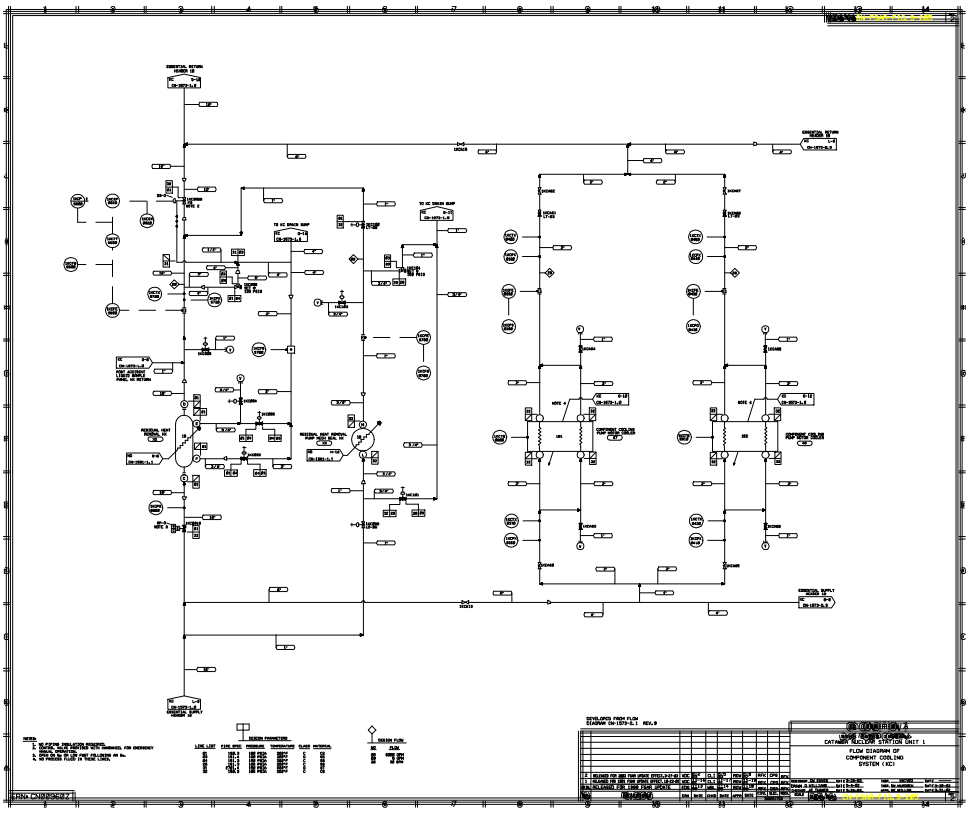

Figure 9-206. Component Cooling System

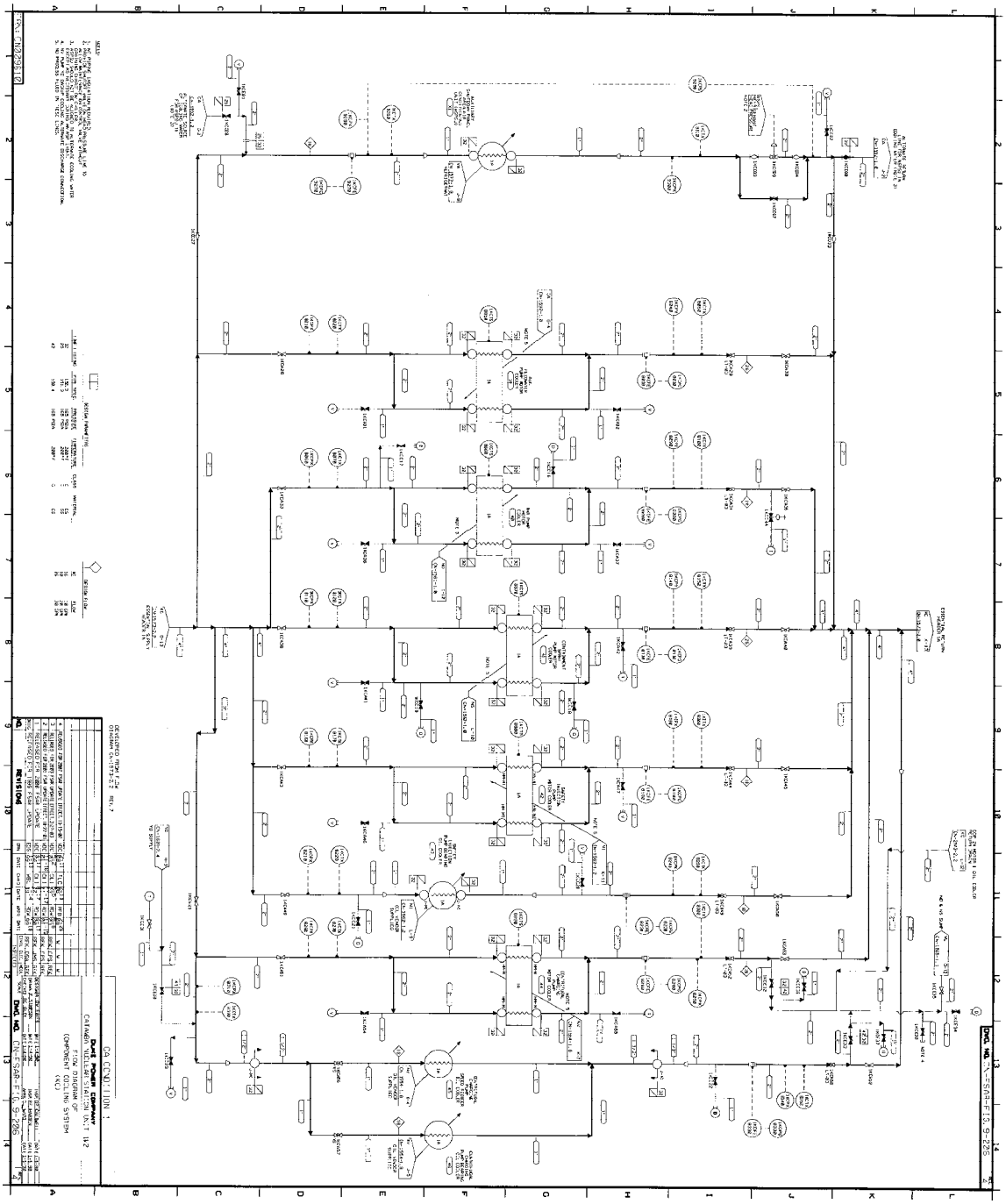

Figure 9-207. Component Cooling System

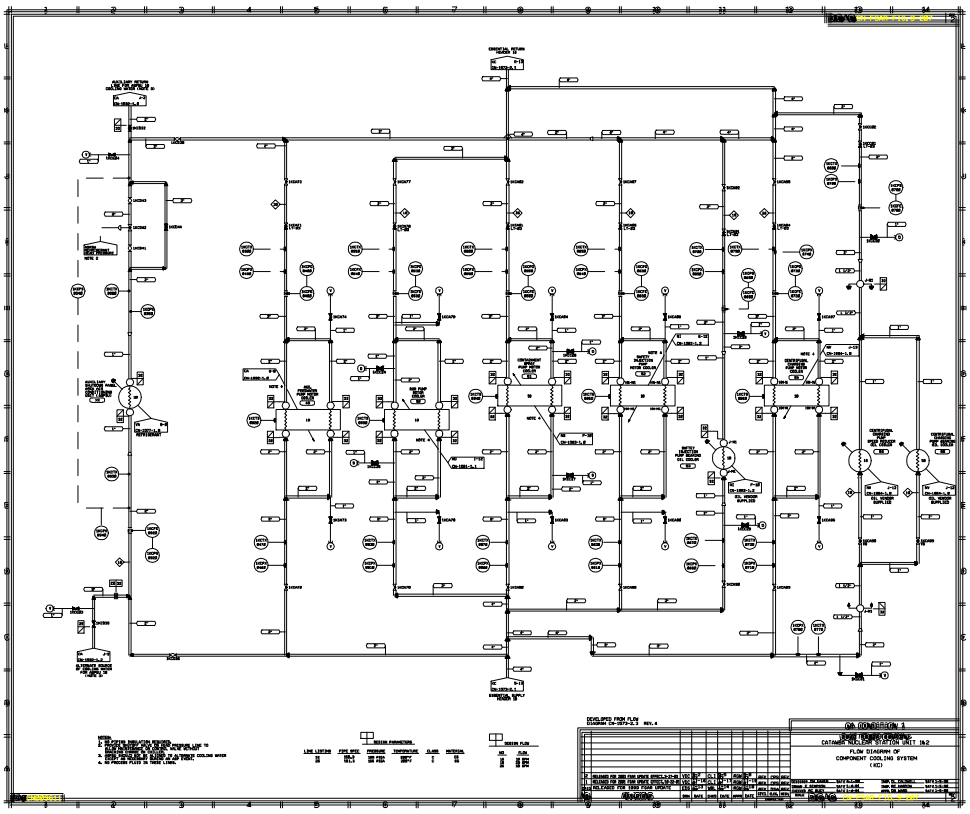

Figure 9-208. Nuclear Service Water System

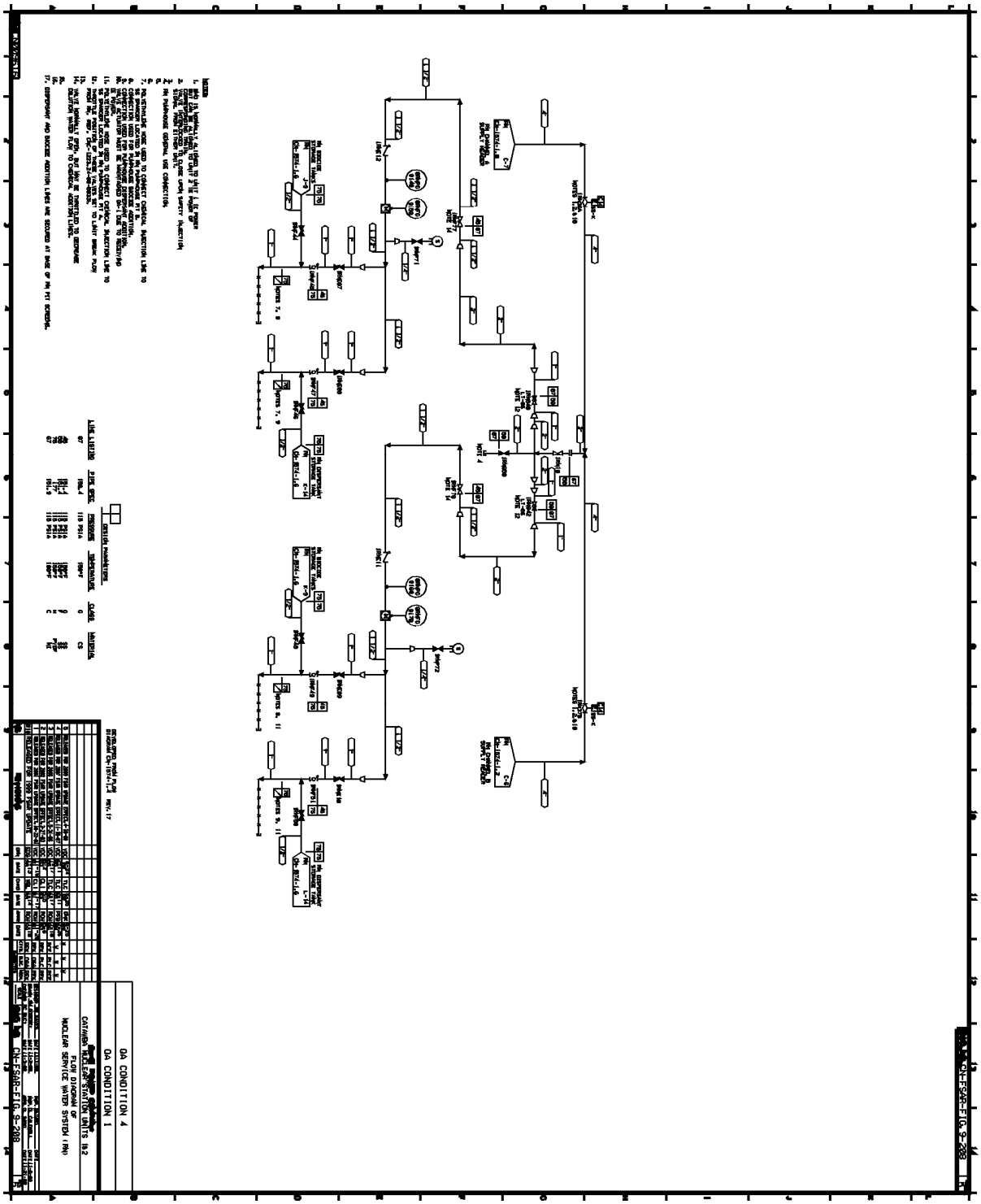

Figure 9-209. Nuclear Service Water System

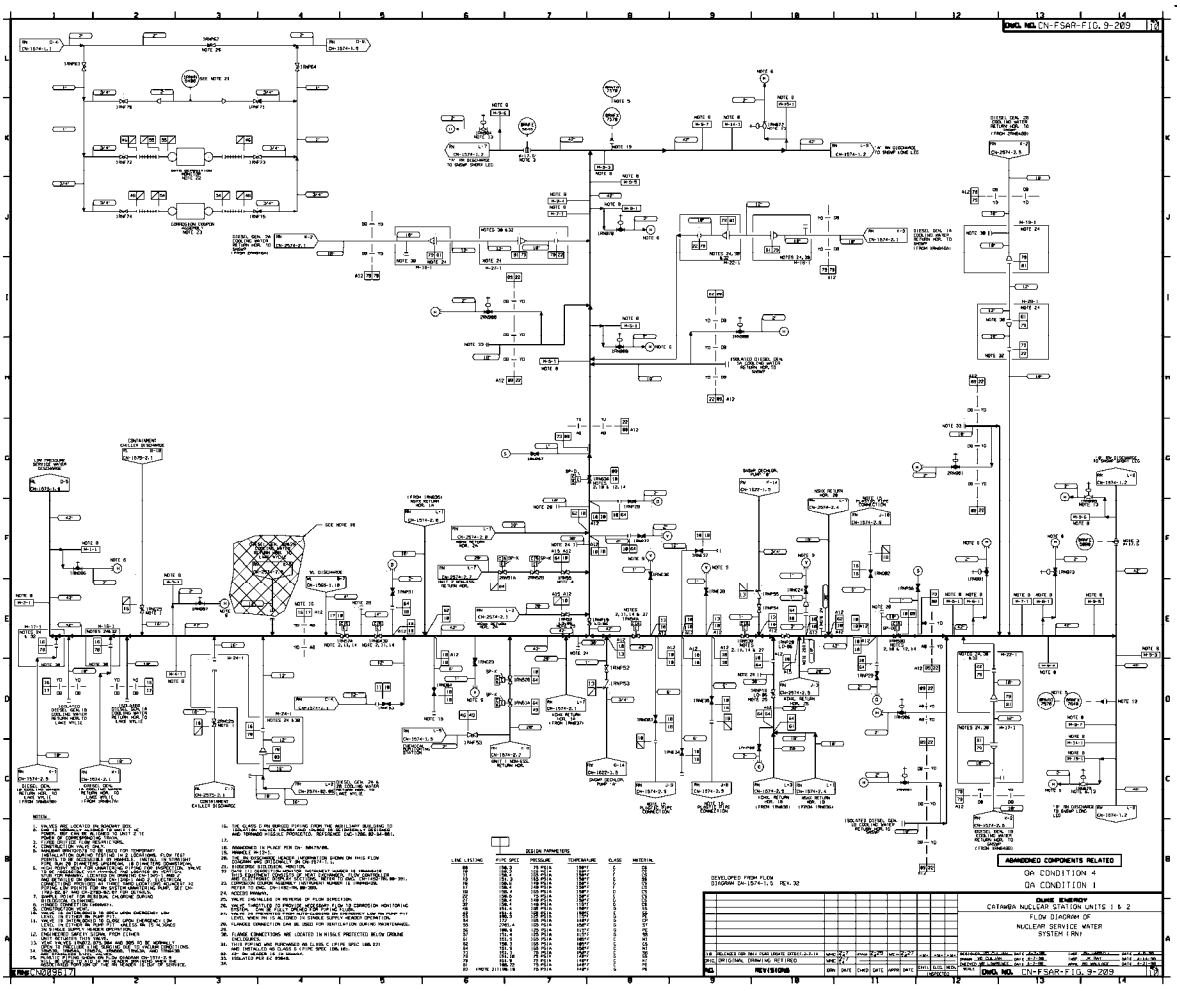

Figure 9-210. Nuclear Service Water System

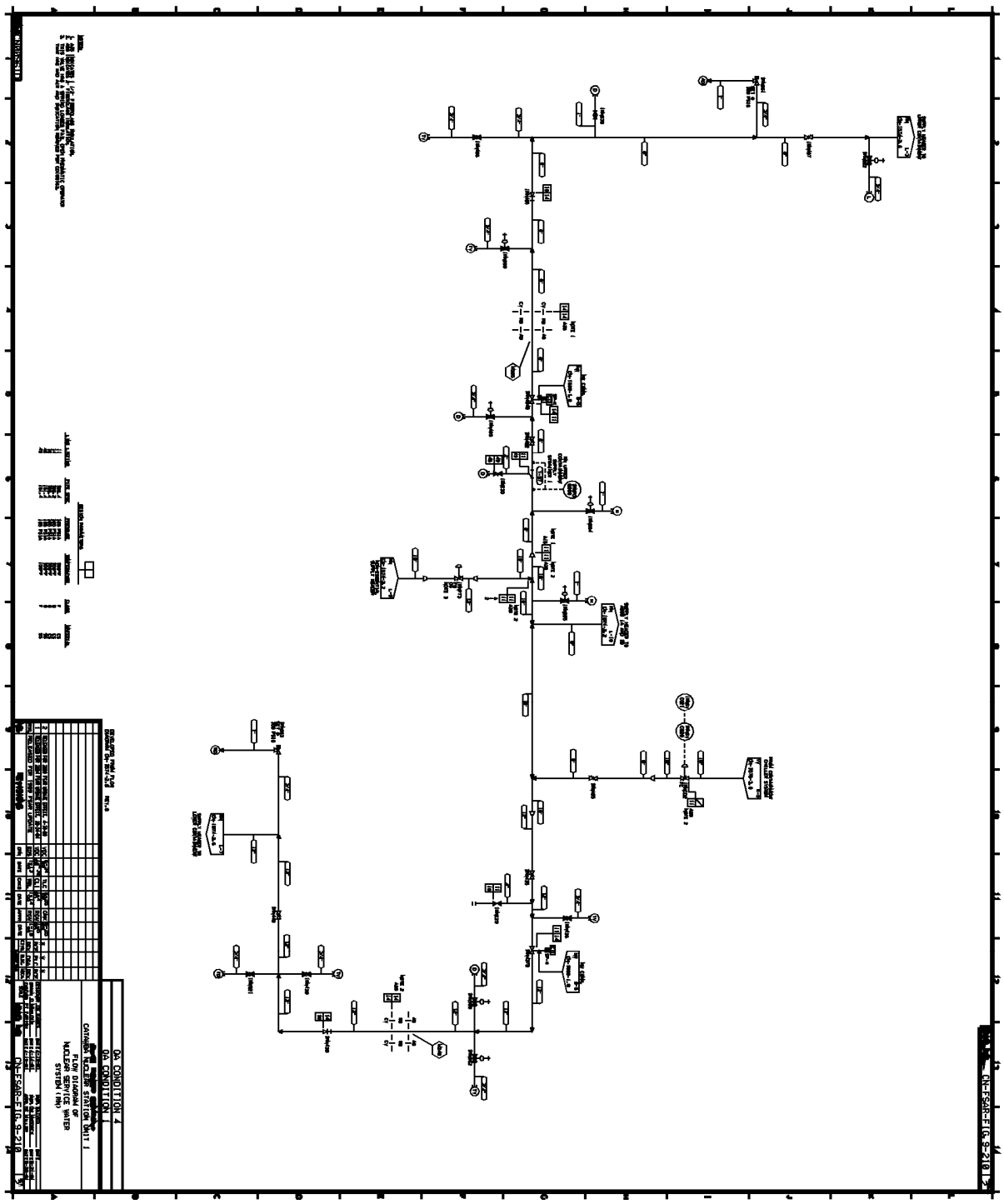

Figure 9-211. Containment Ventilation System

Figure 9-212. Auxiliary Building Ventilation System

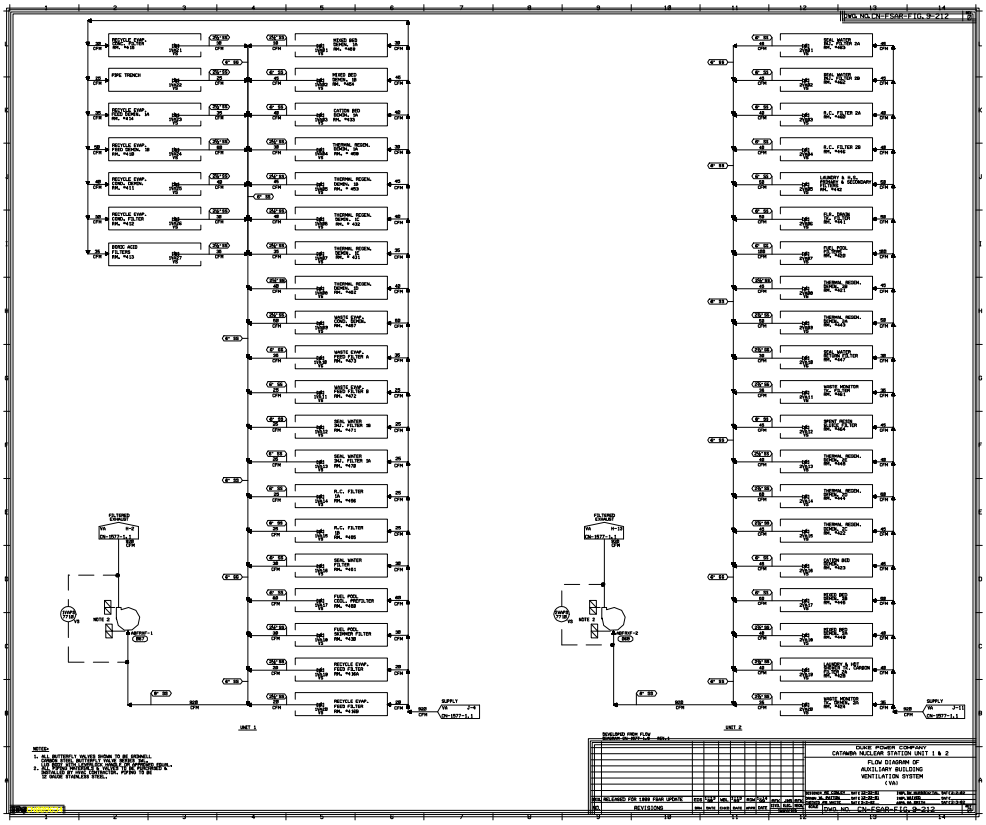

Figure 9-213. Auxiliary Building Ventilation System

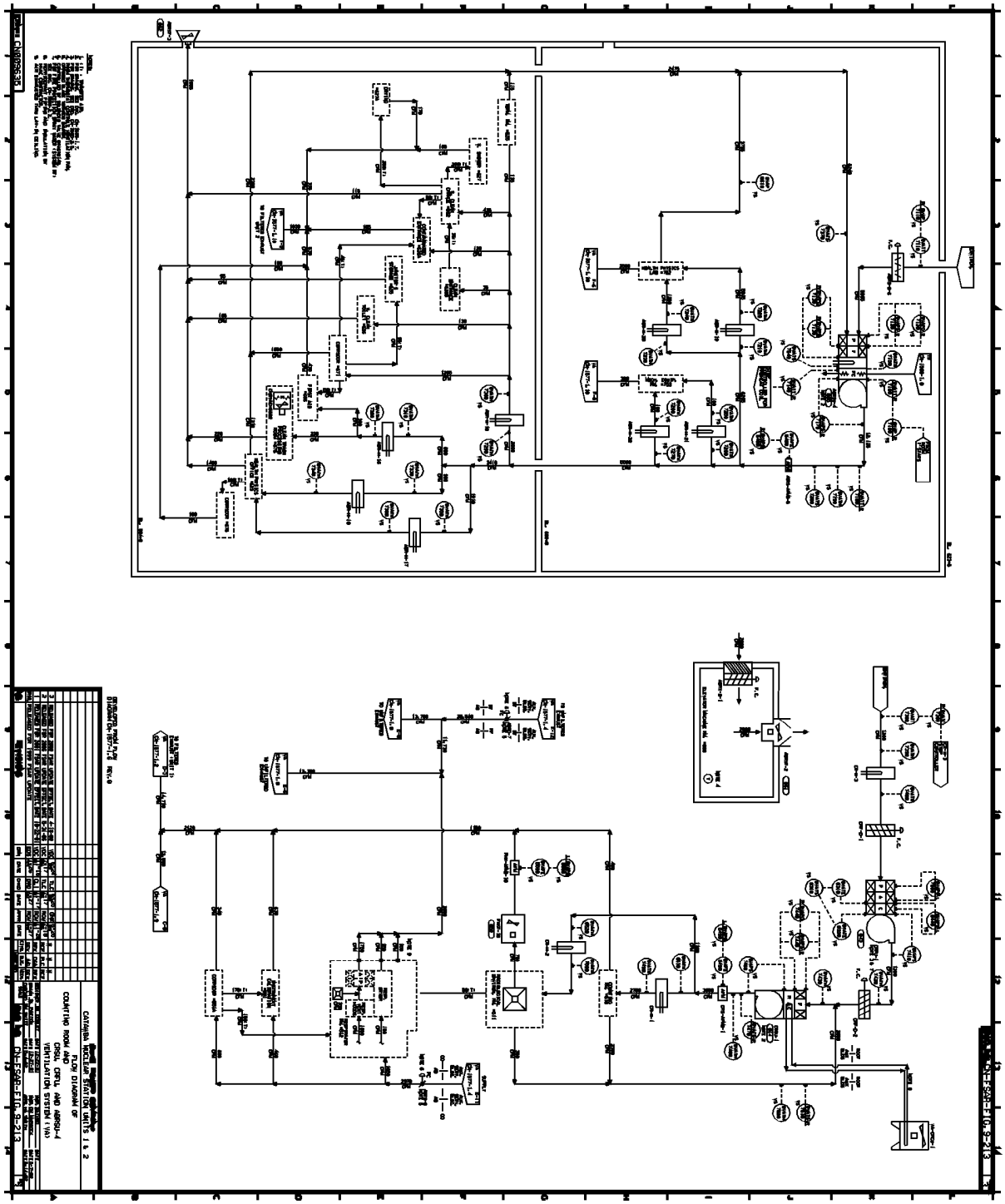

Figure 9-214. Auxiliary Building Ventilation System

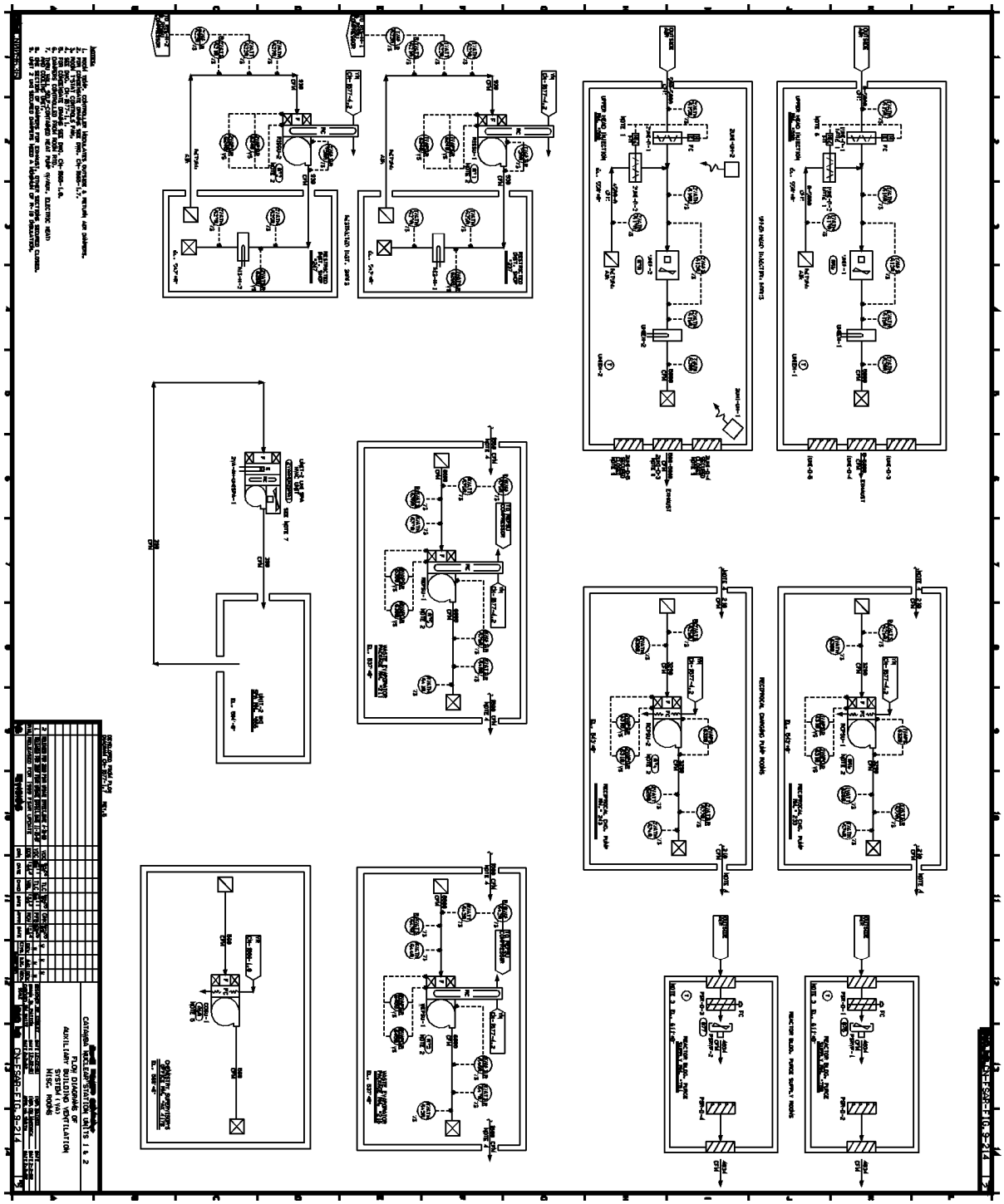

Figure 9-215. Auxiliary Building Ventilation System

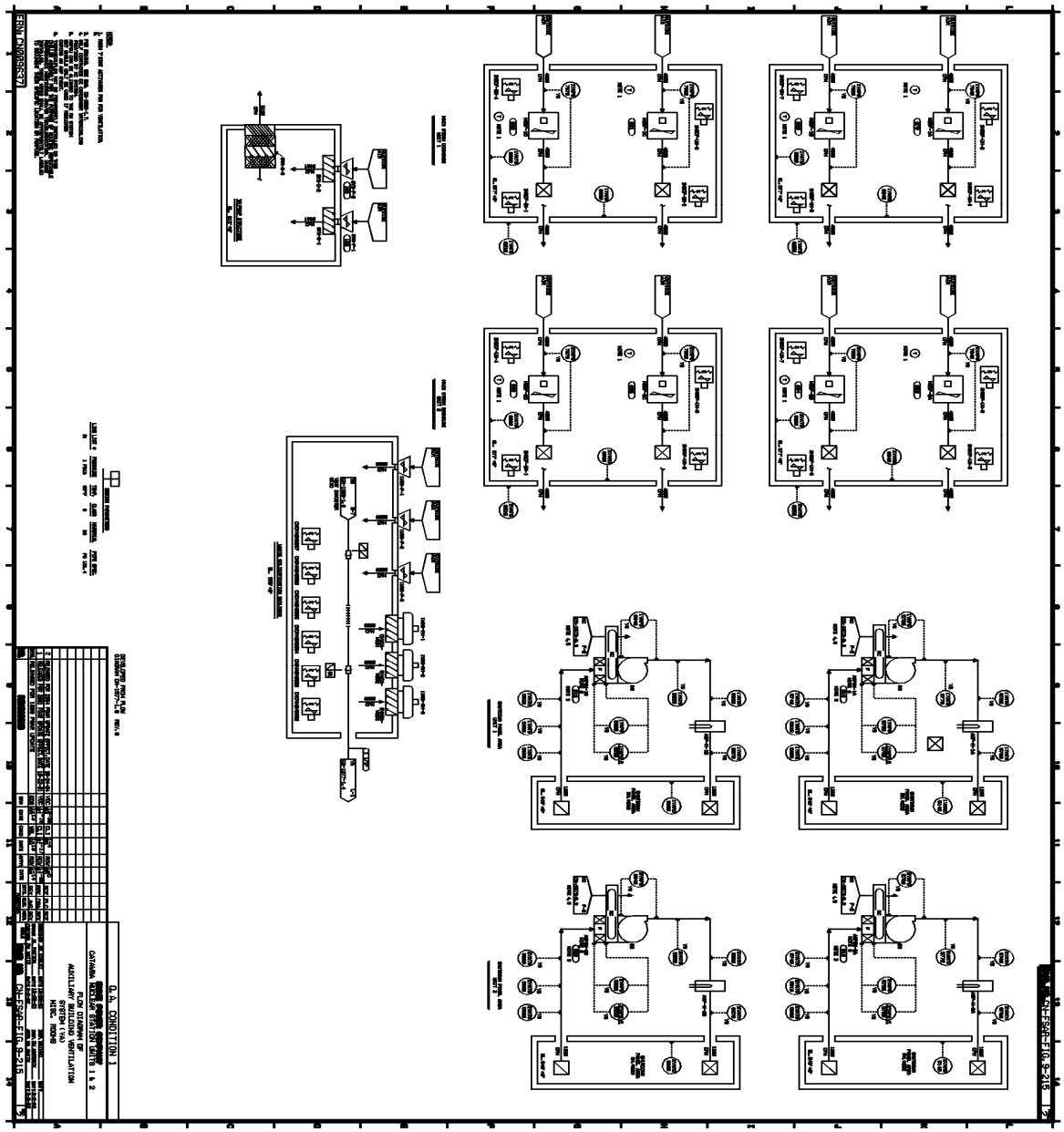

Figure 9-216. Auxiliary Building Ventilation System

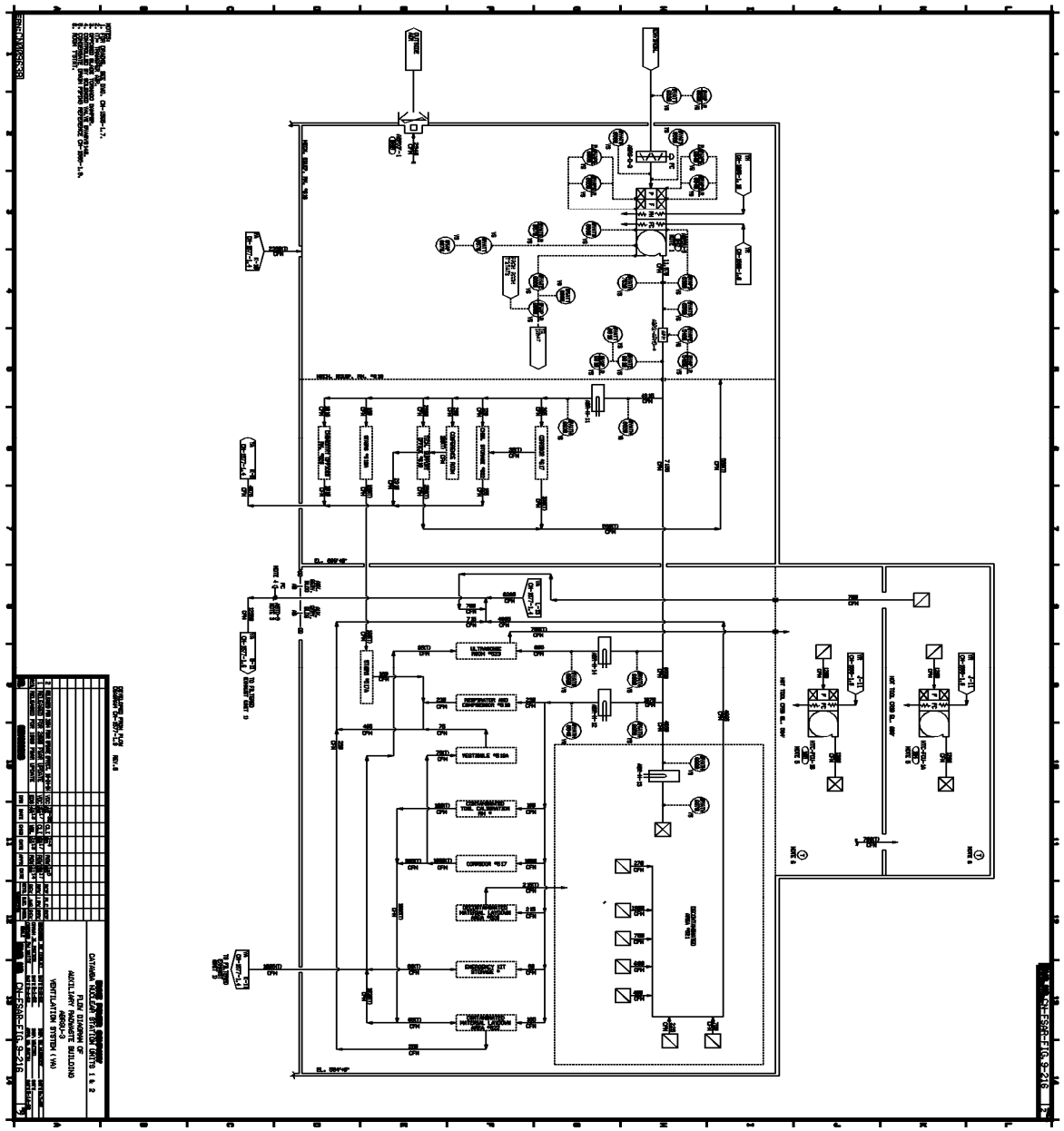

Figure 9-217. Auxiliary Building Ventilation System

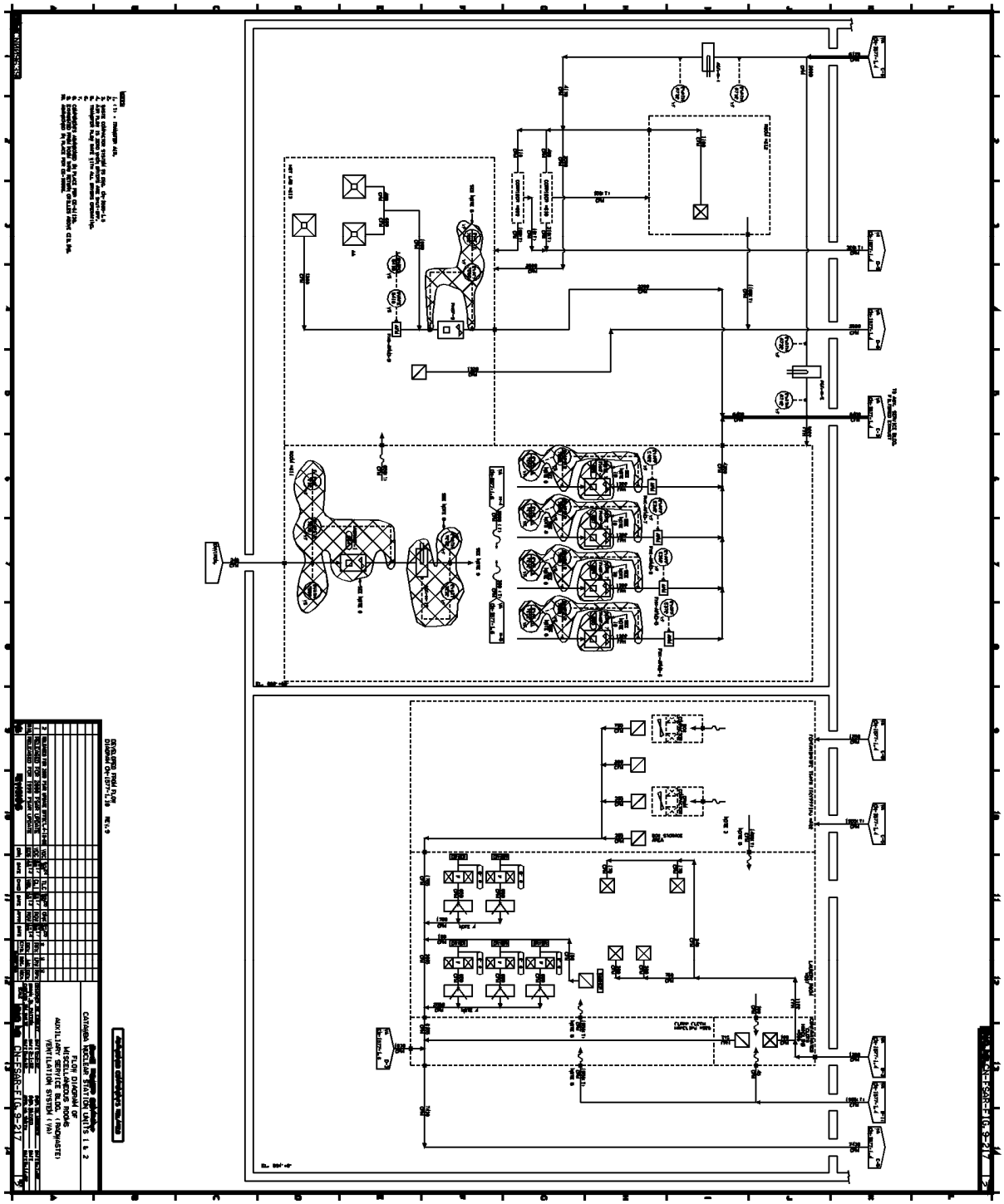

Figure 9-218. Picture Placeholder

Figure 9-219. Picture Placeholder

Figure 9-220. Fire Protection System

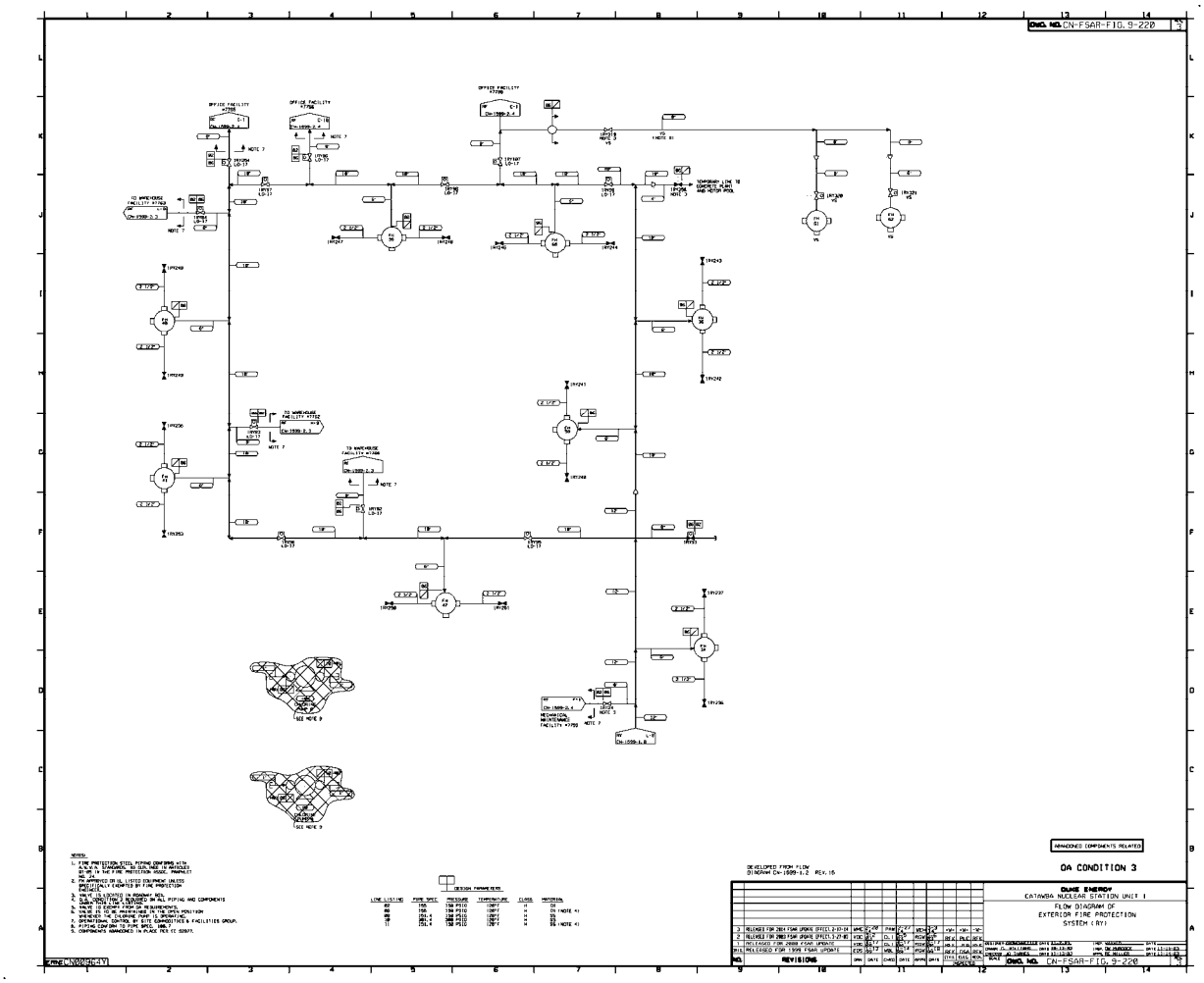

Figure 9-221. Fire Protection System

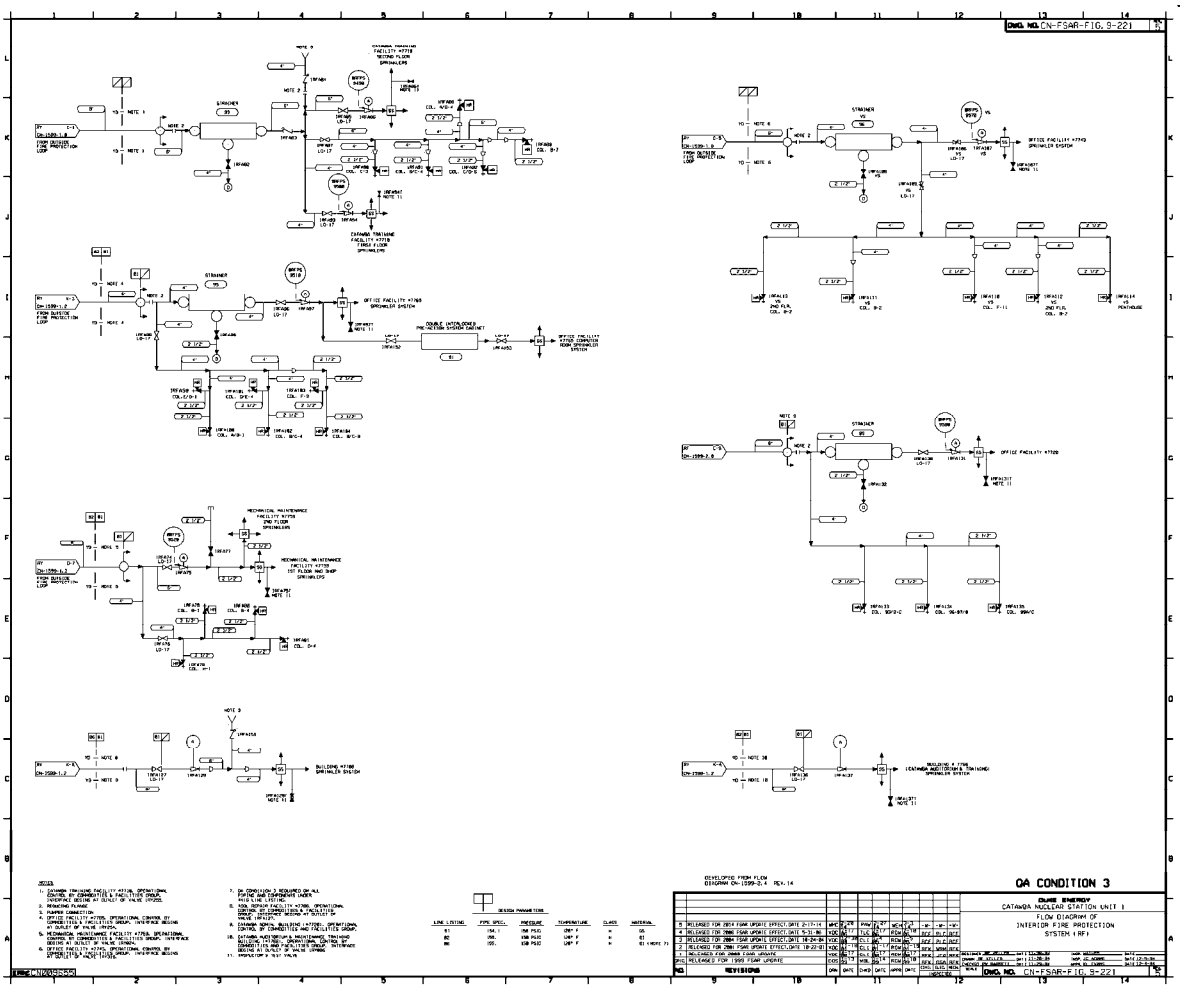

Figure 9-222. Exterior Fire Protection System

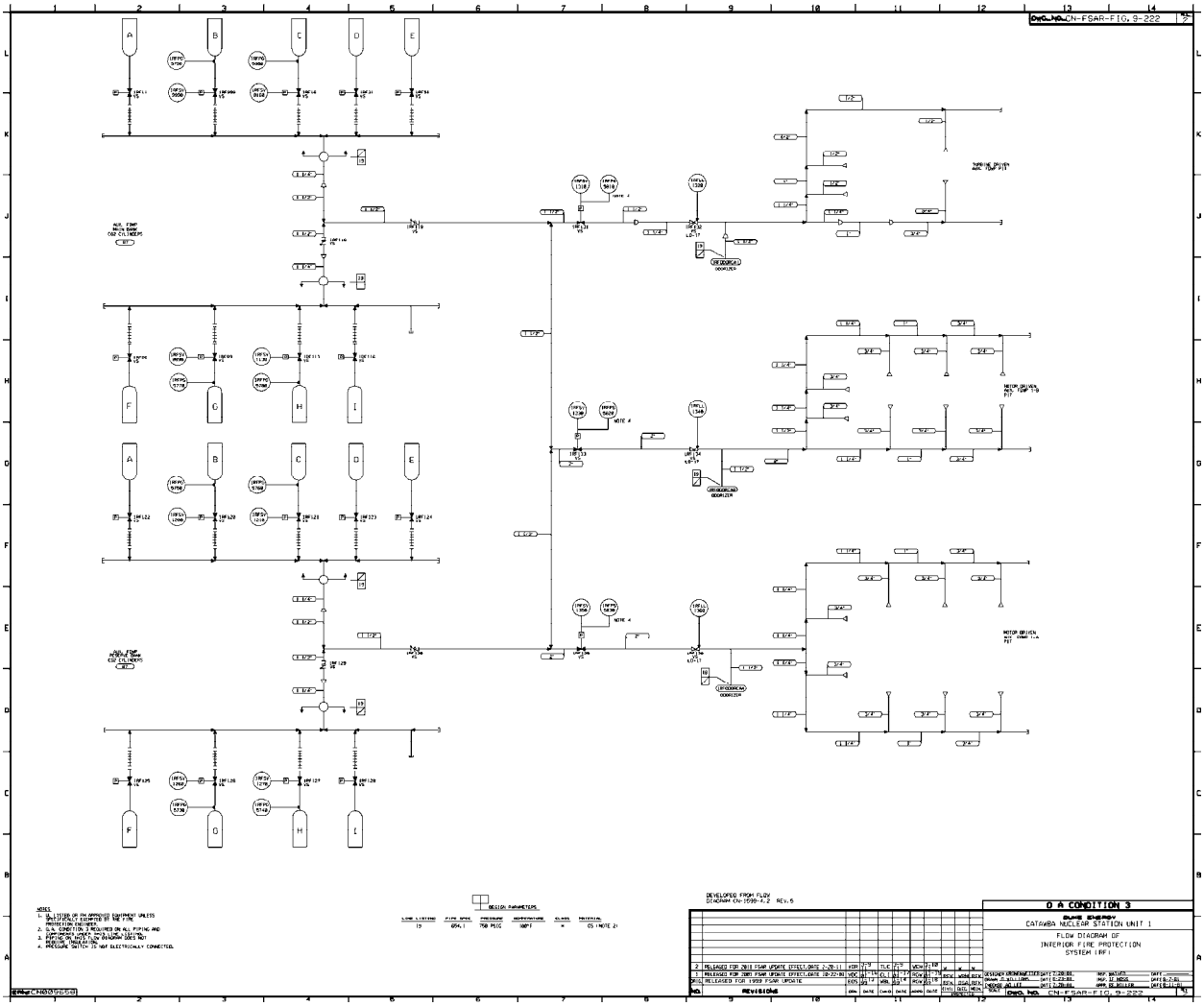

Figure 9-223. Makeup Demineralized Water System

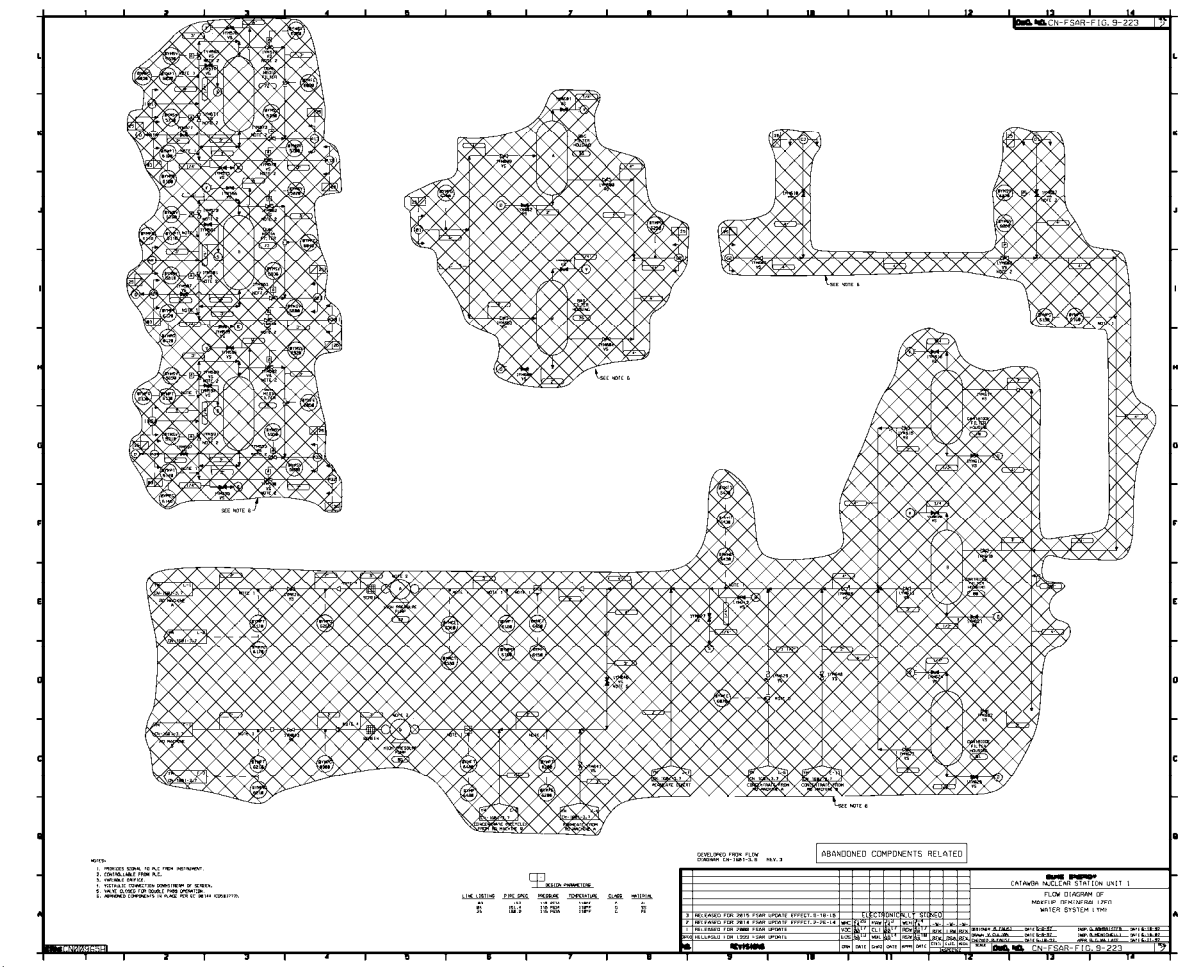

Figure 9-224. Makeup Demineralized Water System

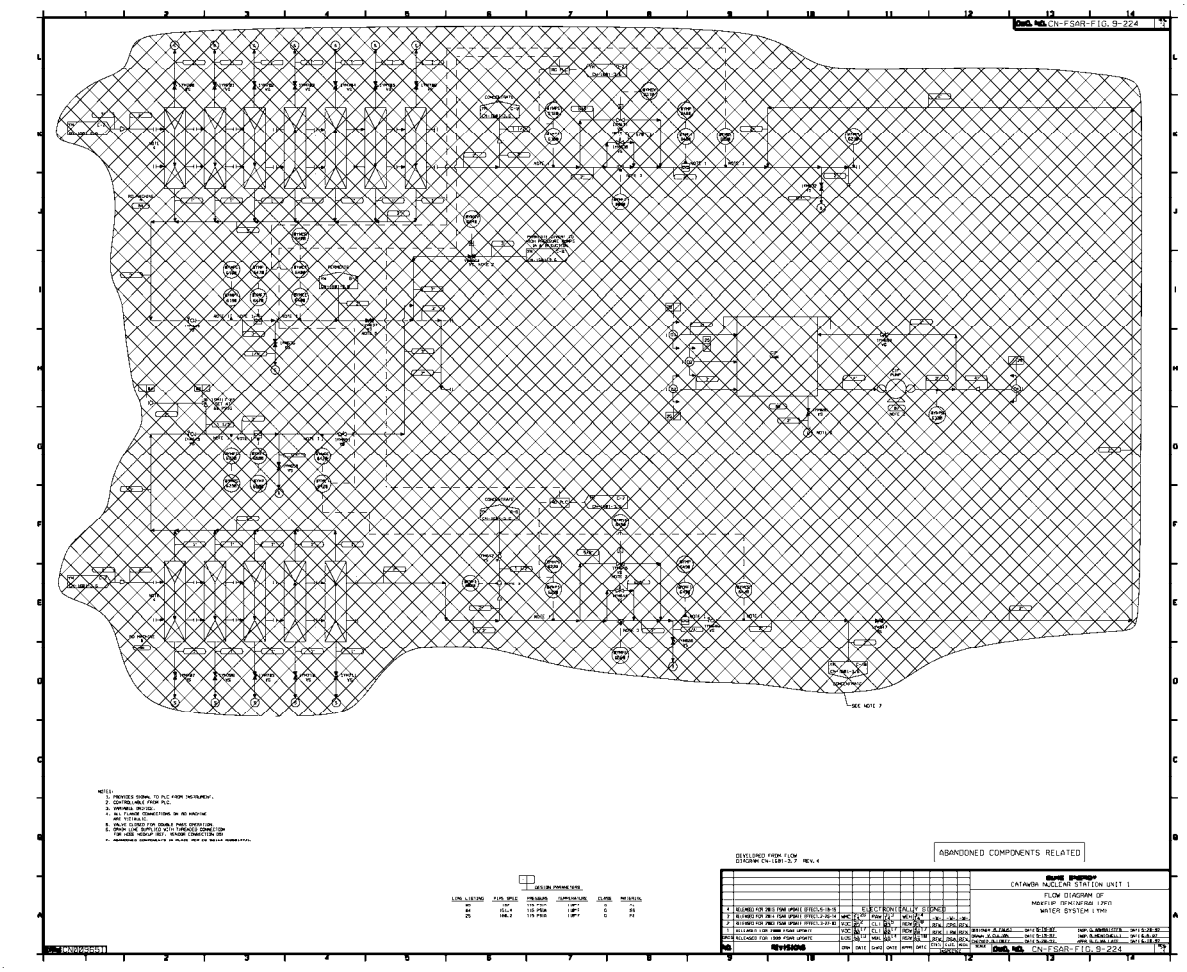

Figure 9-225. Makeup Demineralized Water System

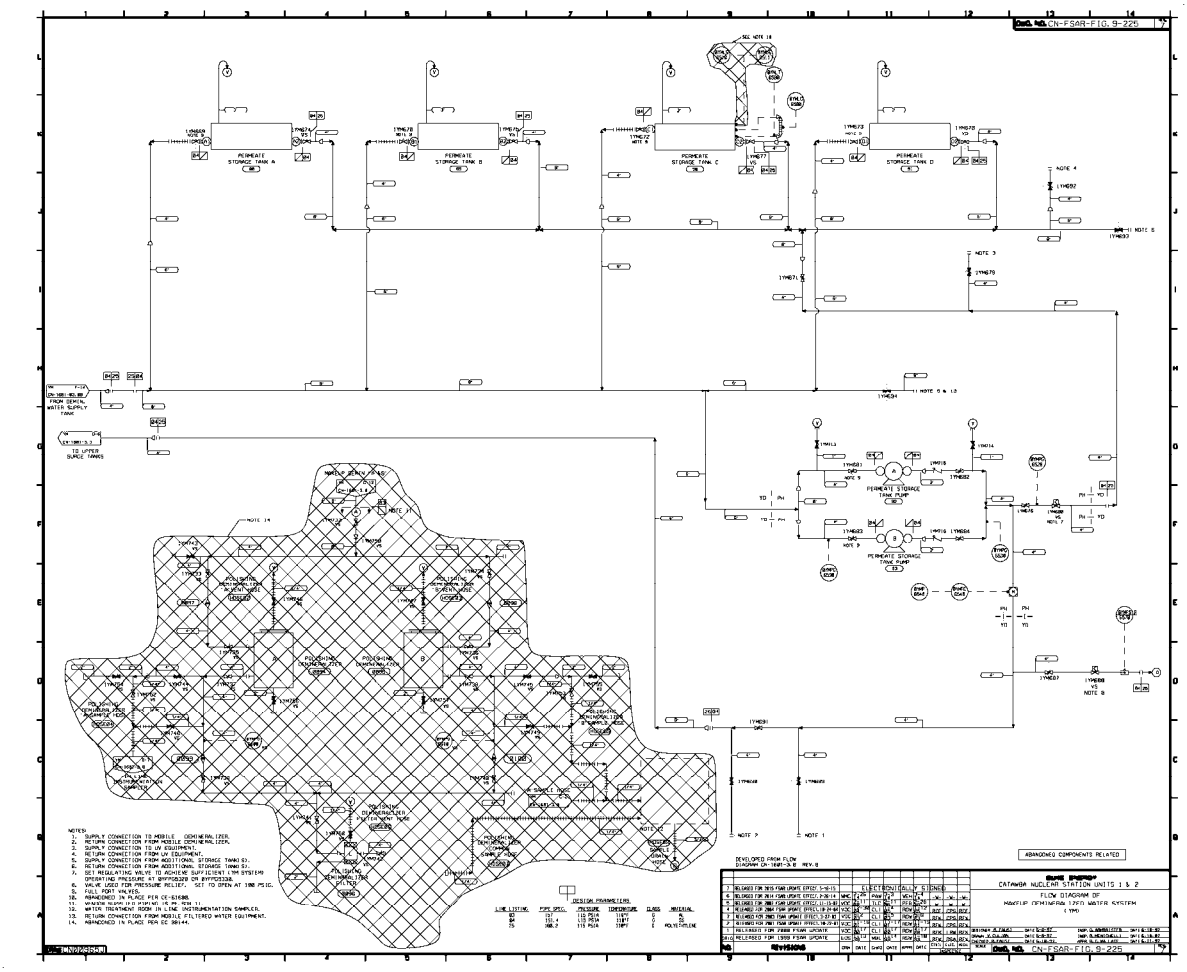

Figure 9-226. Instrument Air System

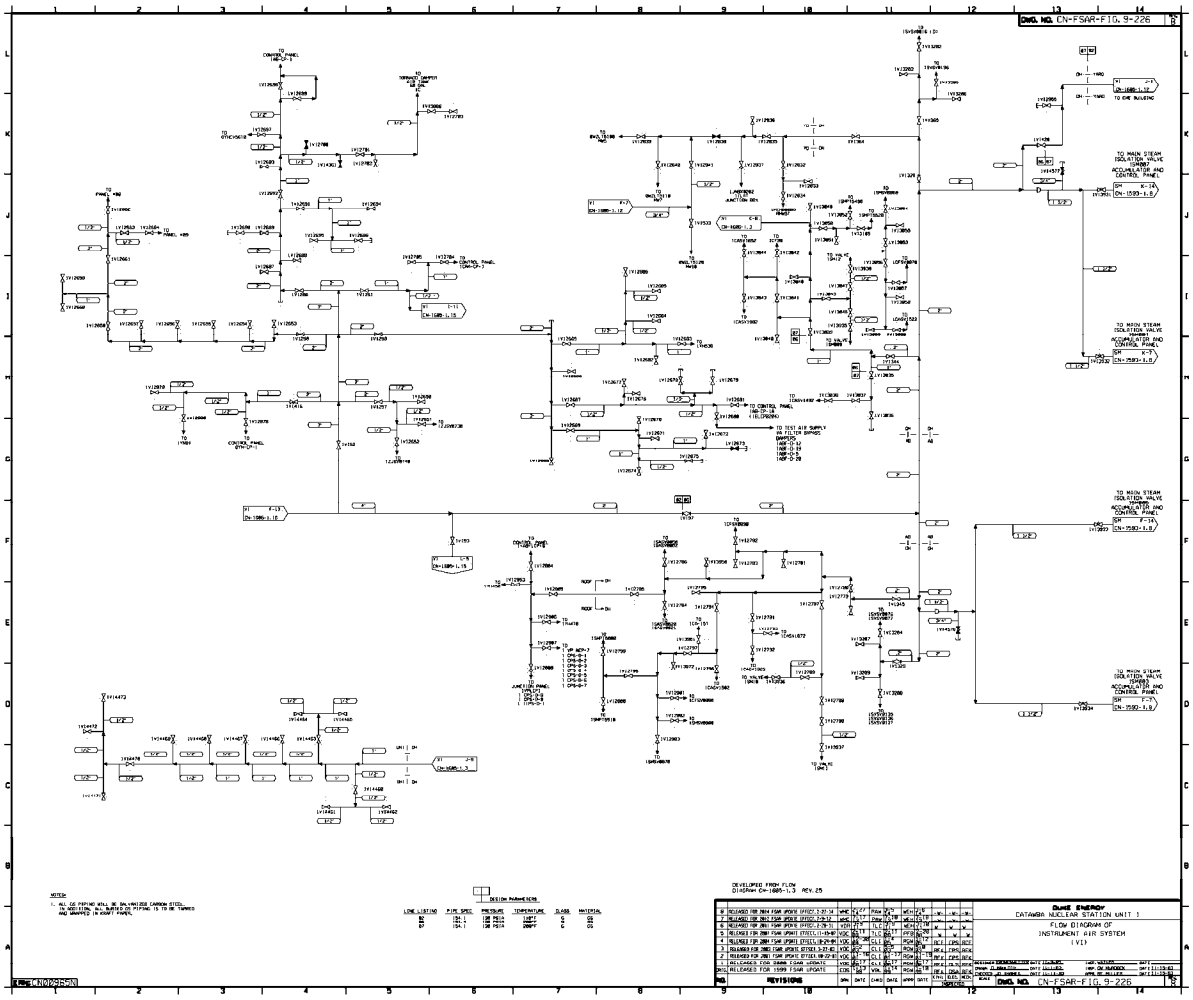

Figure 9-227. Instrument Air System

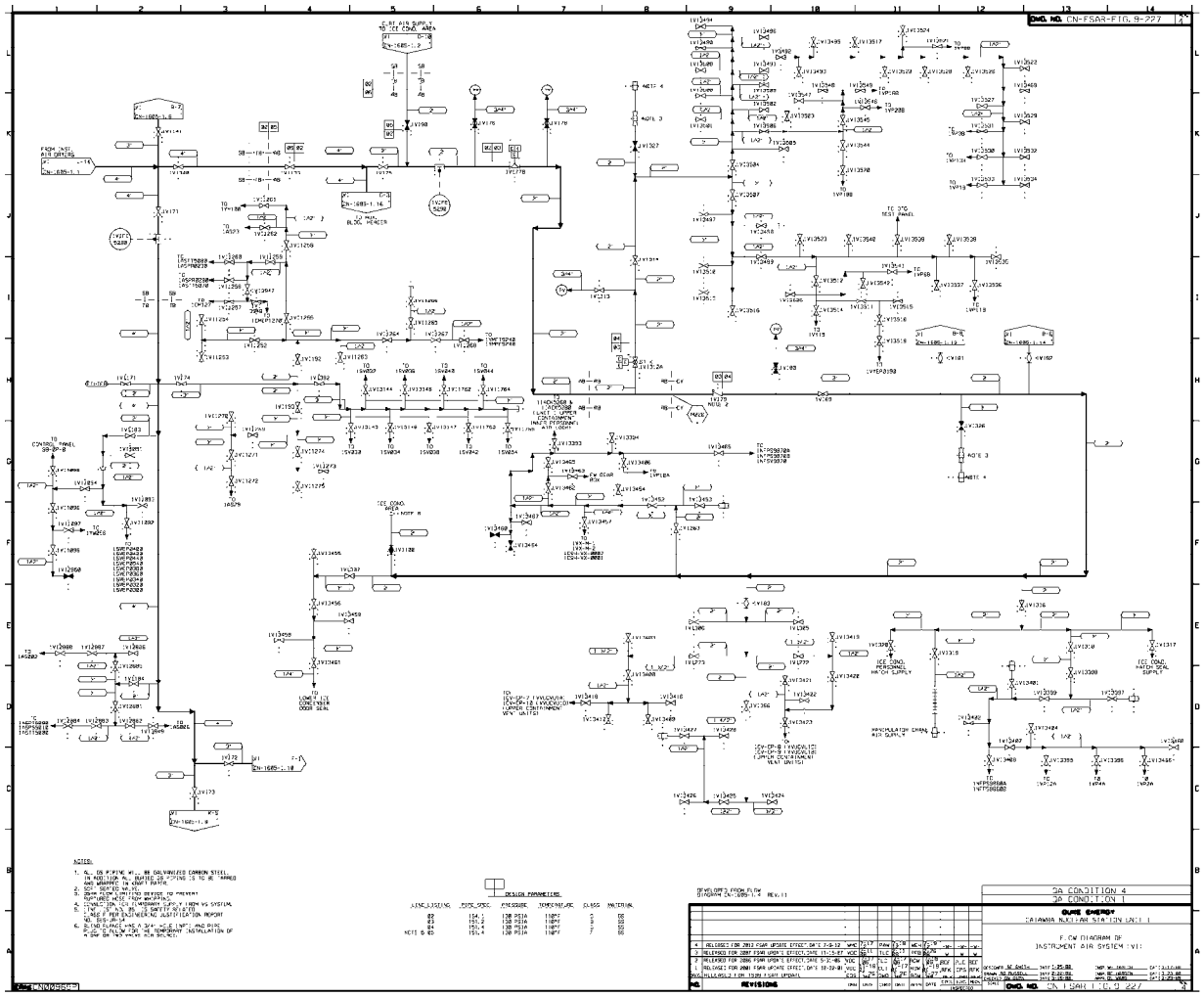

Figure 9-228. Instrument Air System

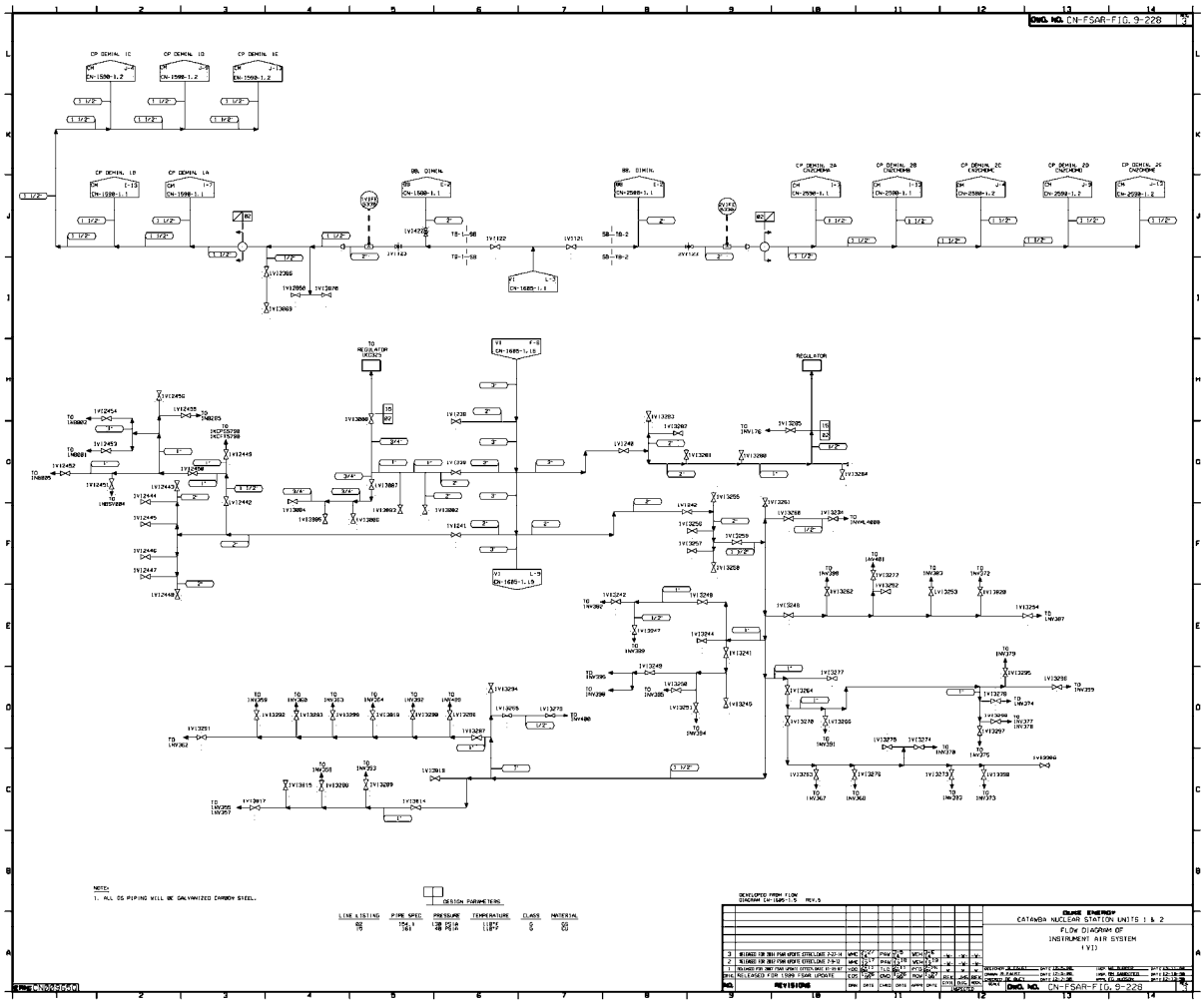

Figure 9-229. Instrument Air System

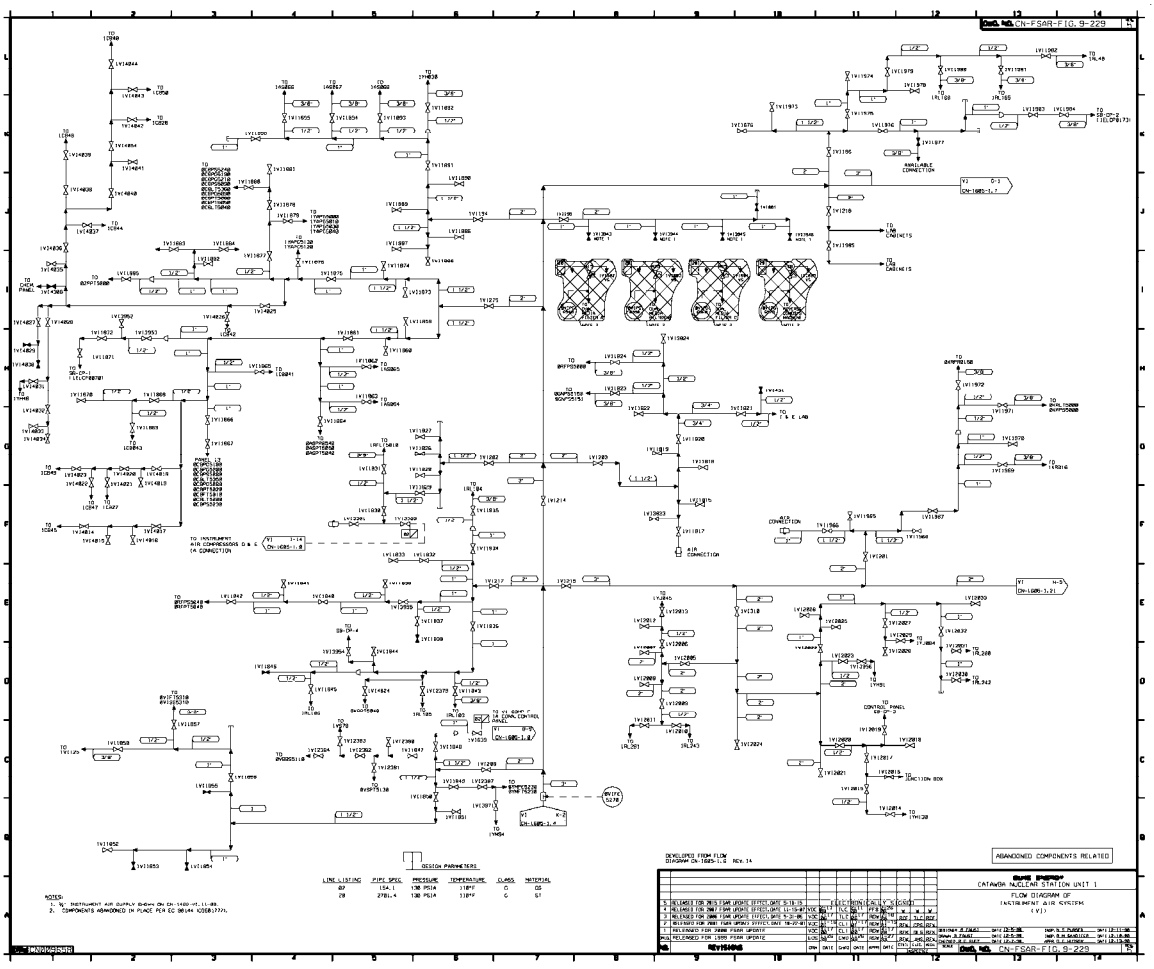

Figure 9-230. Instrument Air System

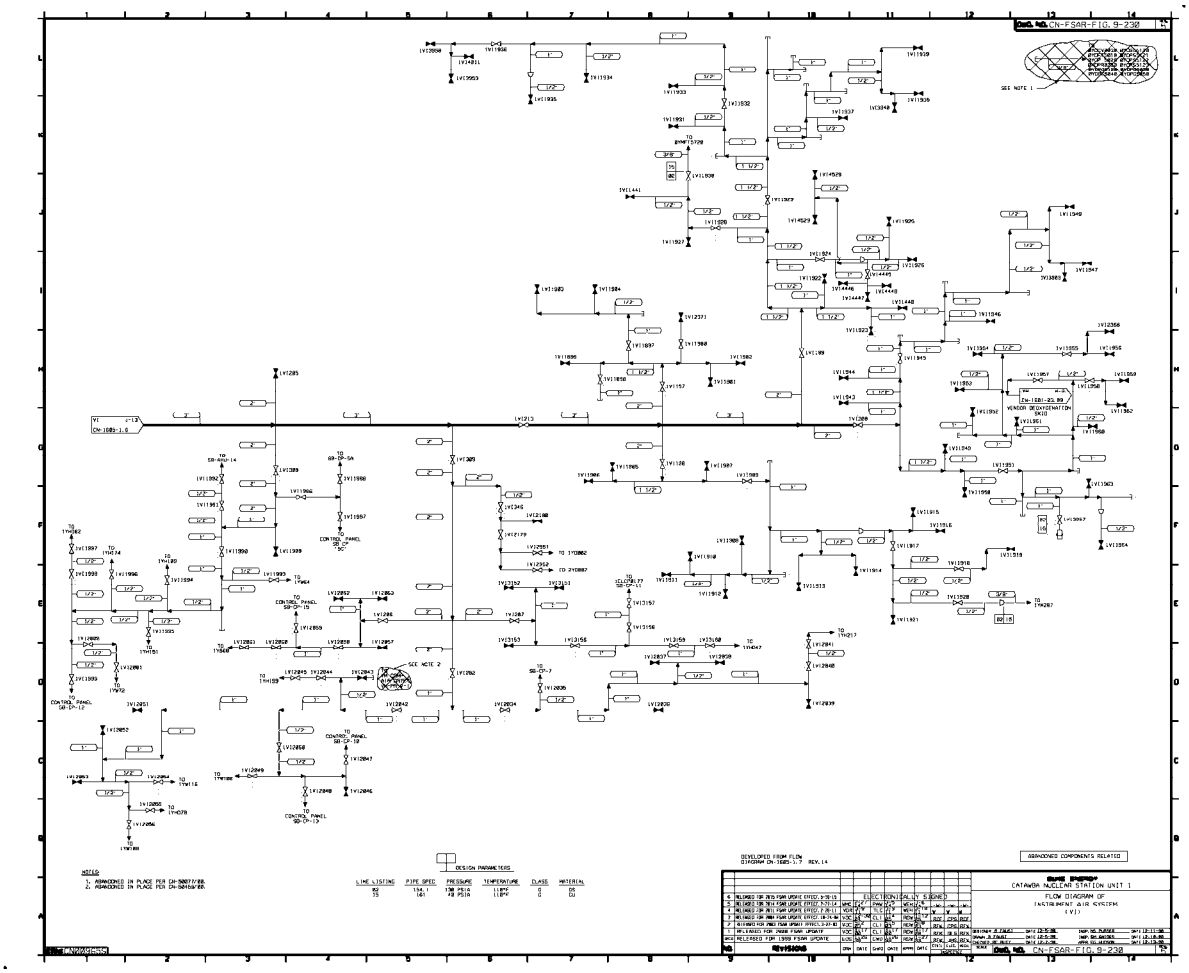

Figure 9-231. Instrument Air System

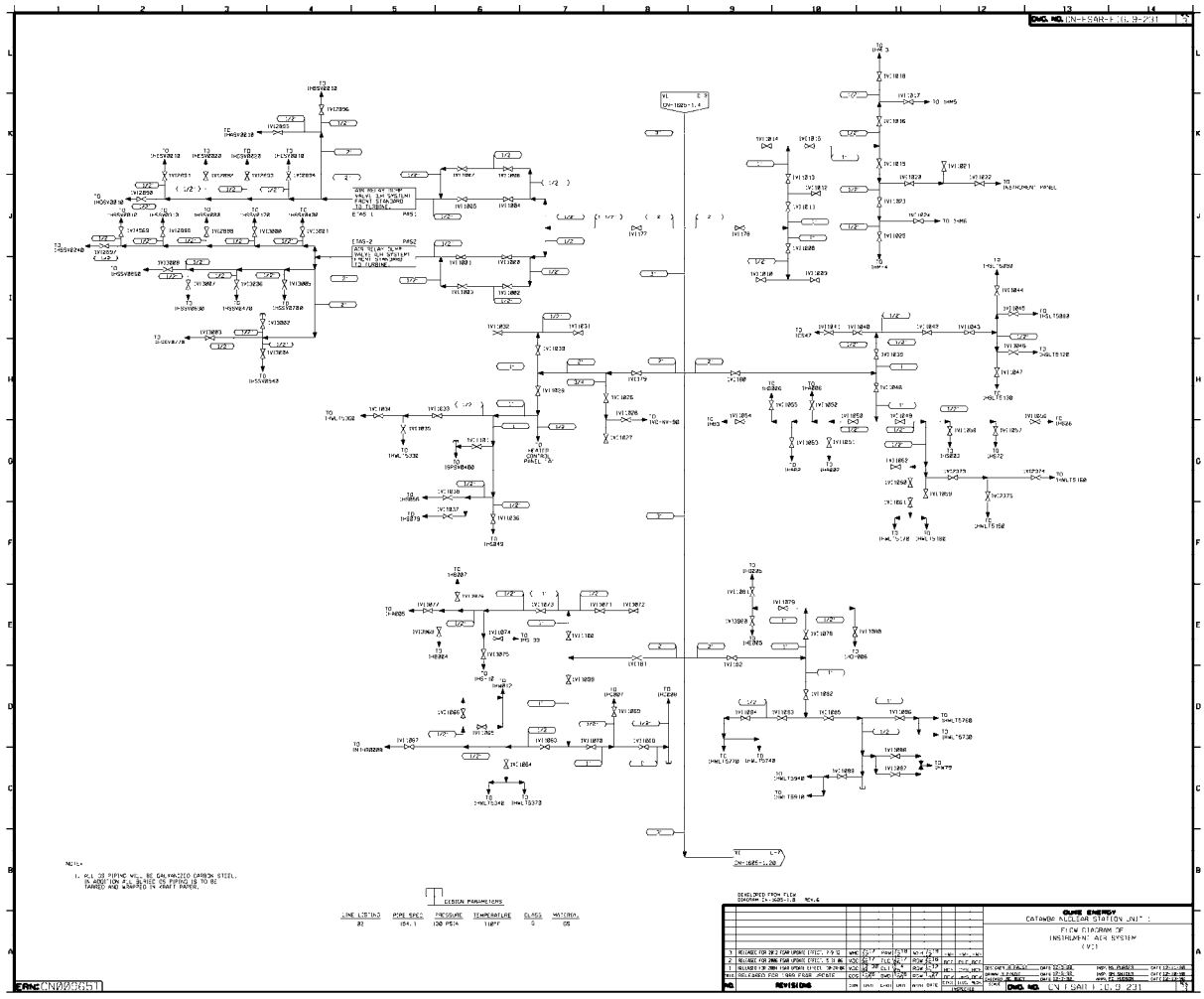

Figure 9-232. Instrument Air System

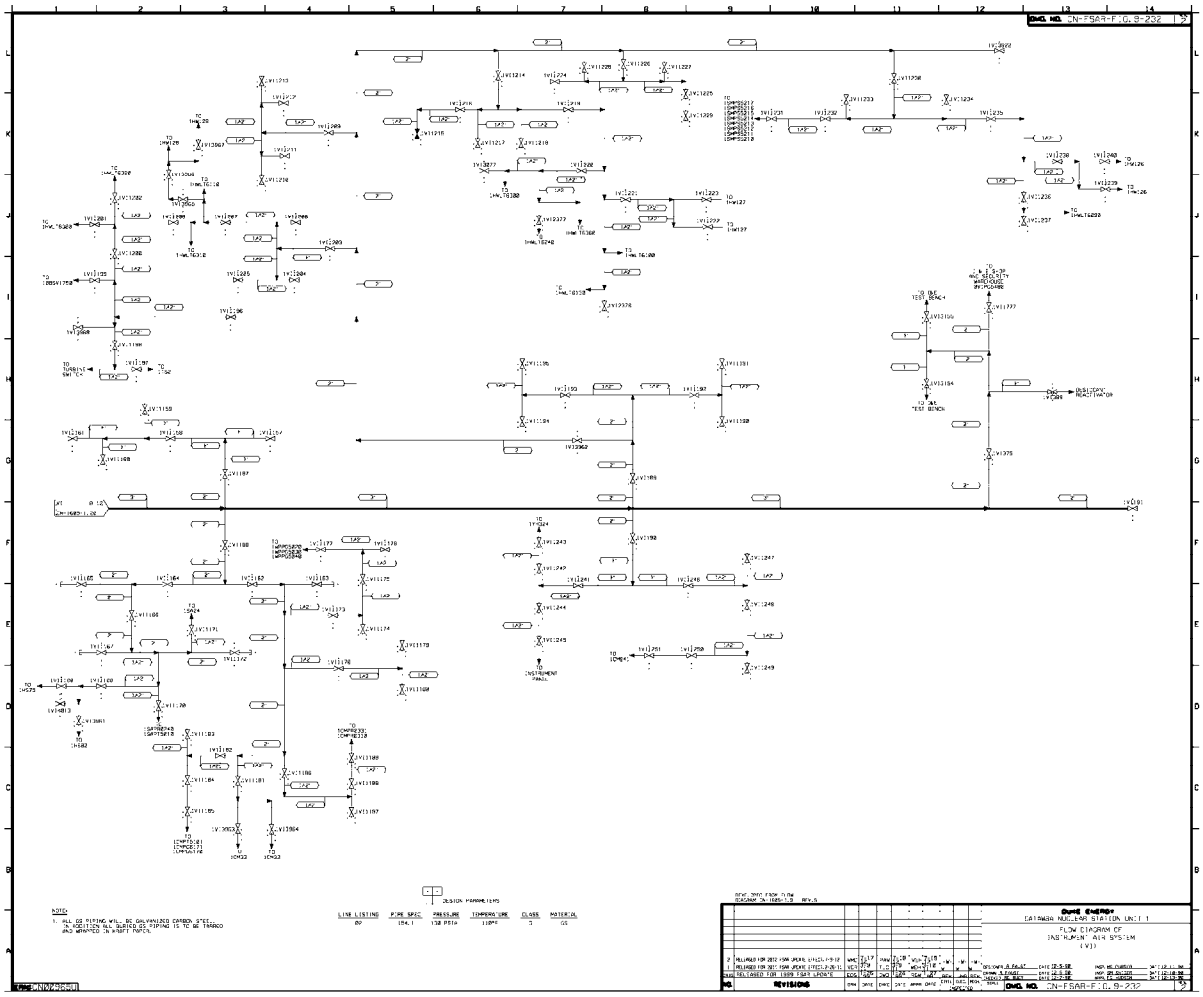

Figure 9-233. Auxiliary Building Ventilation System

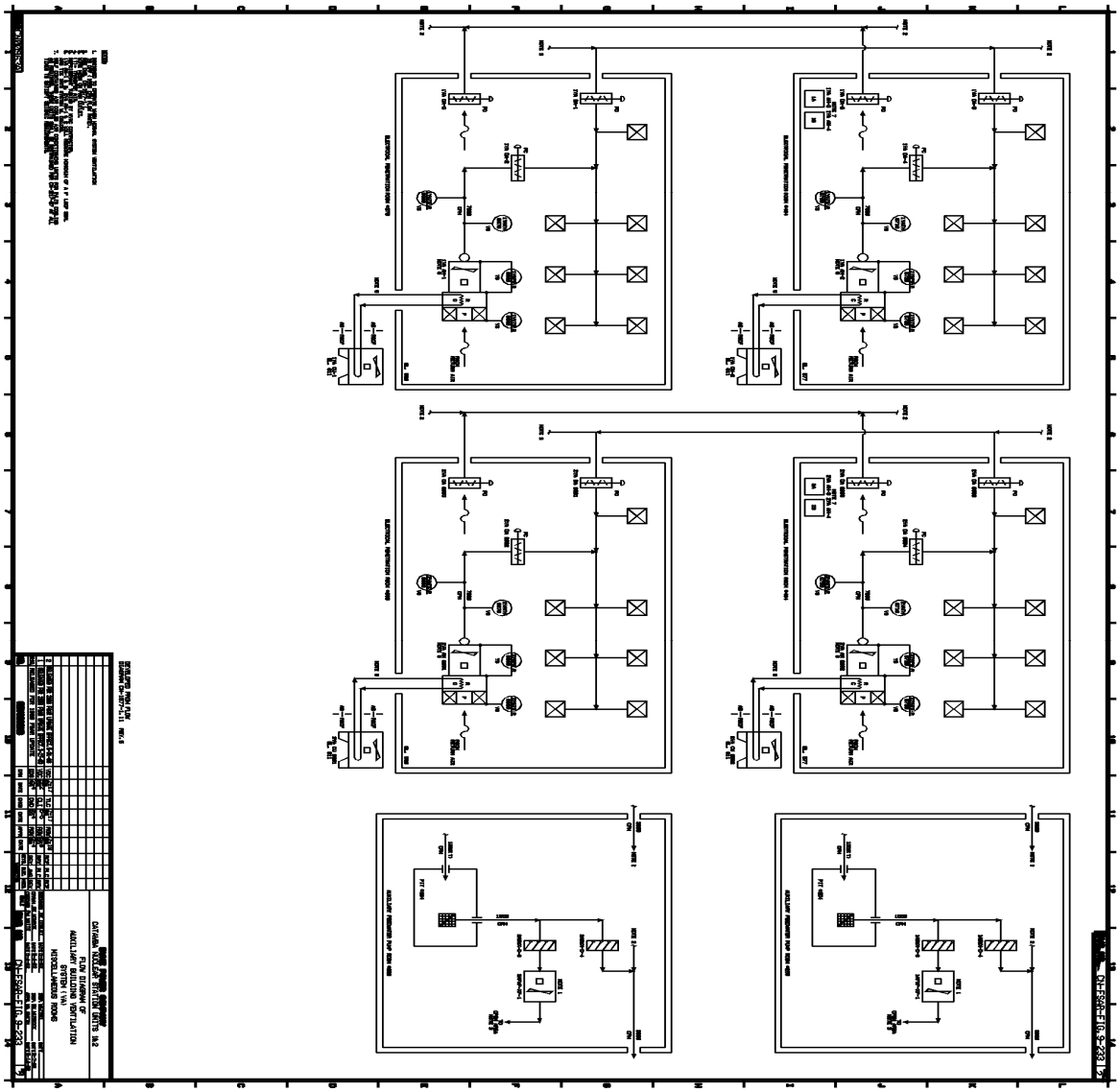

Figure 9-234. Instrument Air System

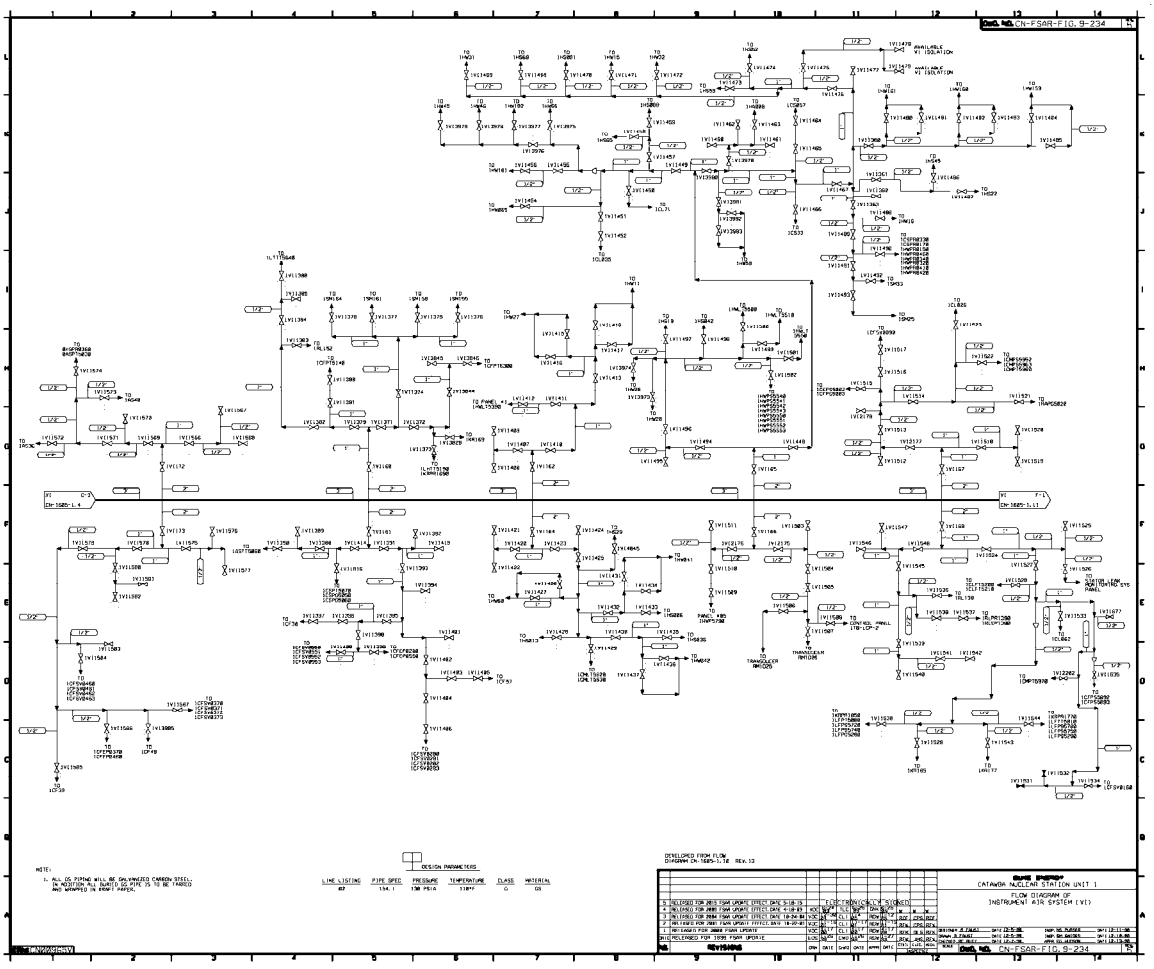

Figure 9-235. Instrument Air System

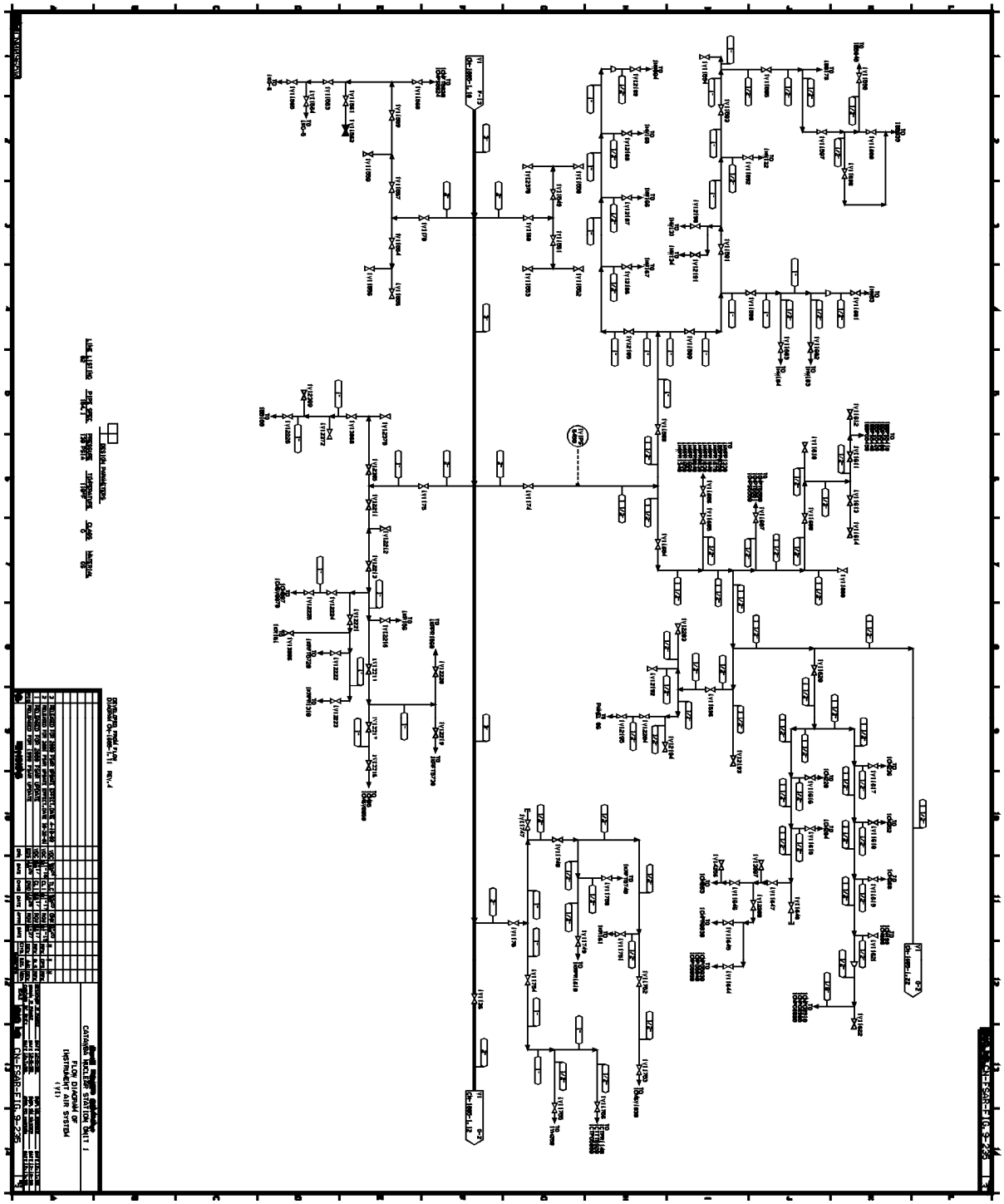

Figure 9-236. Instrument Air System

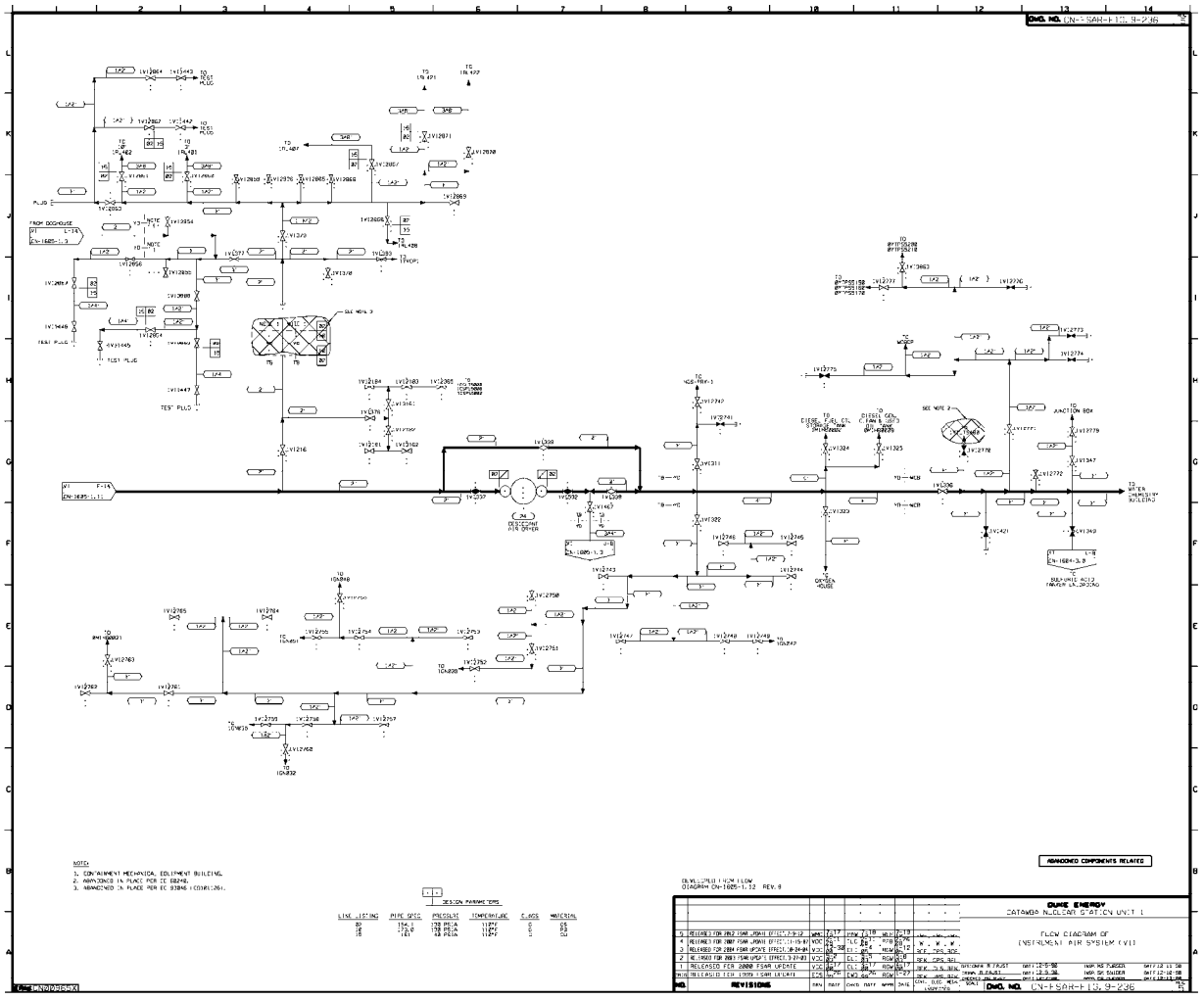

Figure 9-237. Instrument Air System

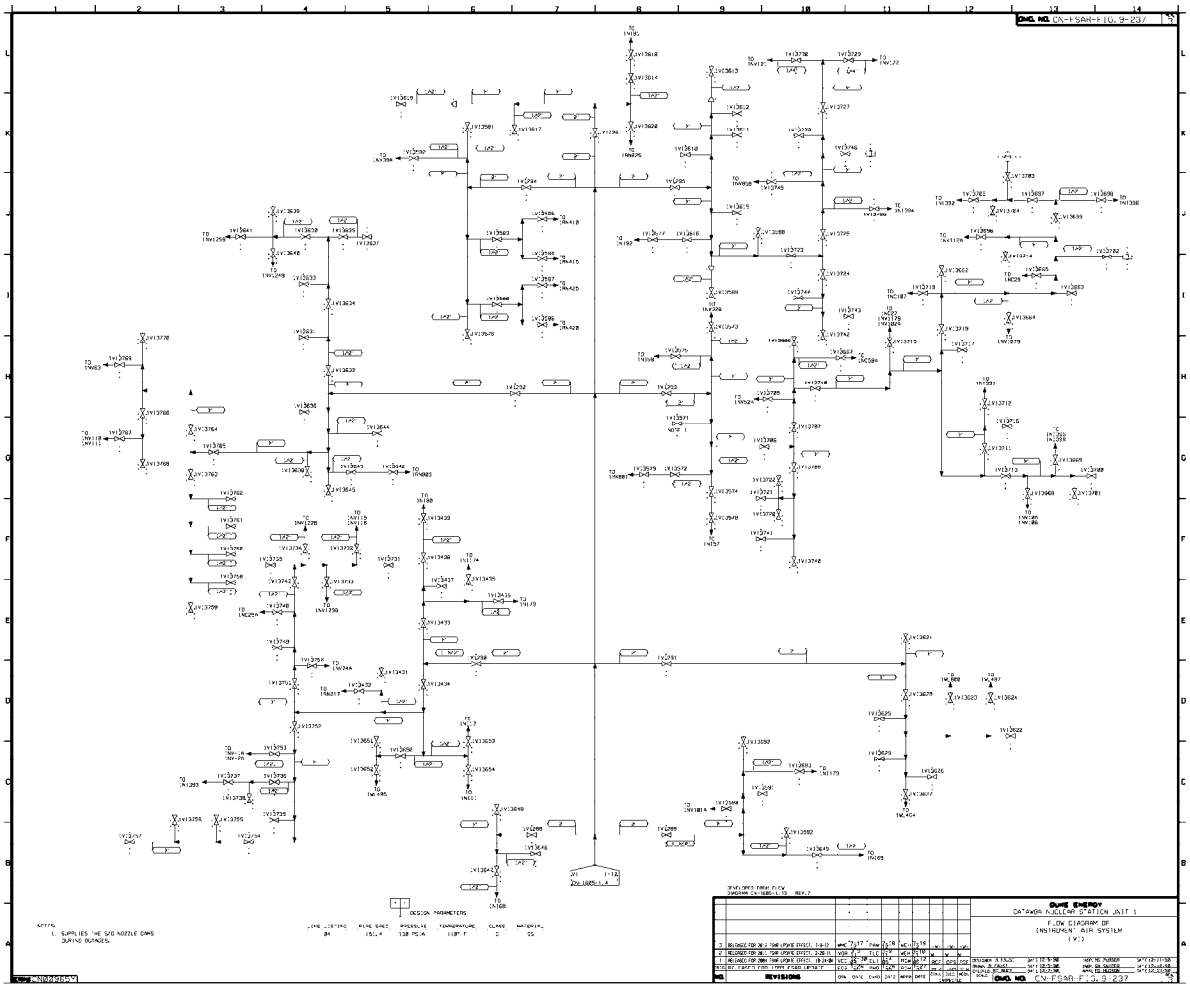

Figure 9-238. Instrument Air System

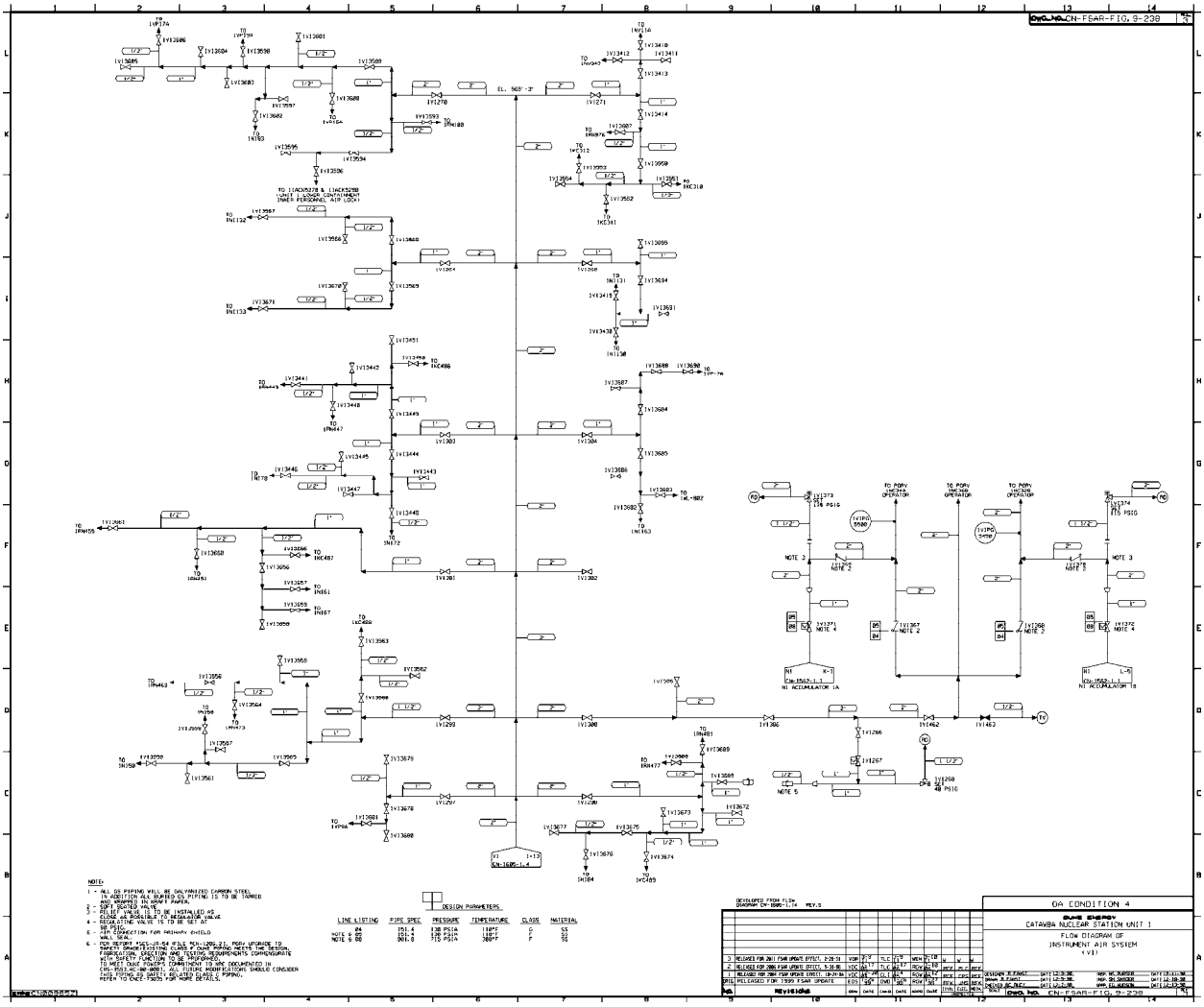

Figure 9-239. Instrument Air System

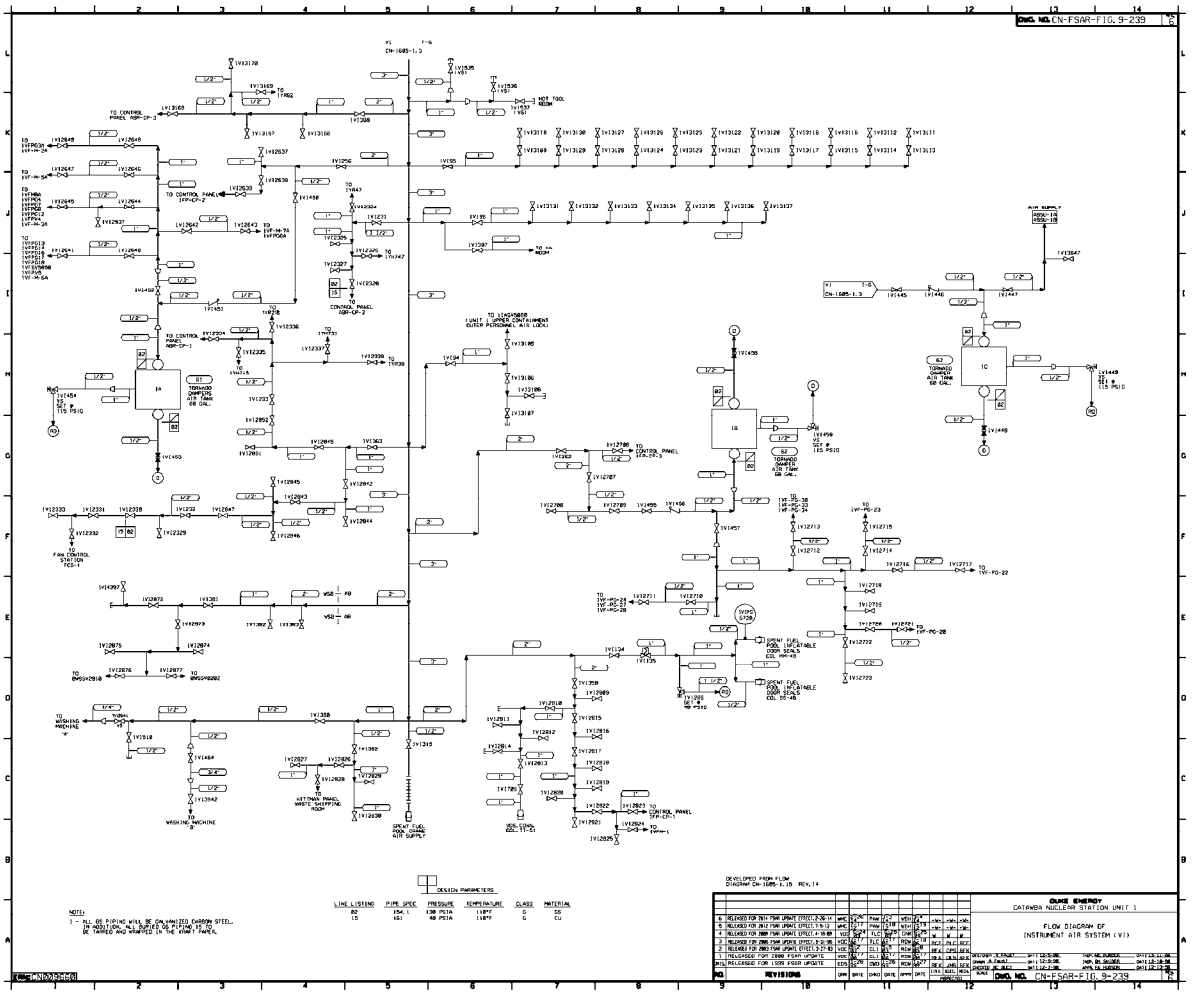

Figure 9-240. Instrument Air System

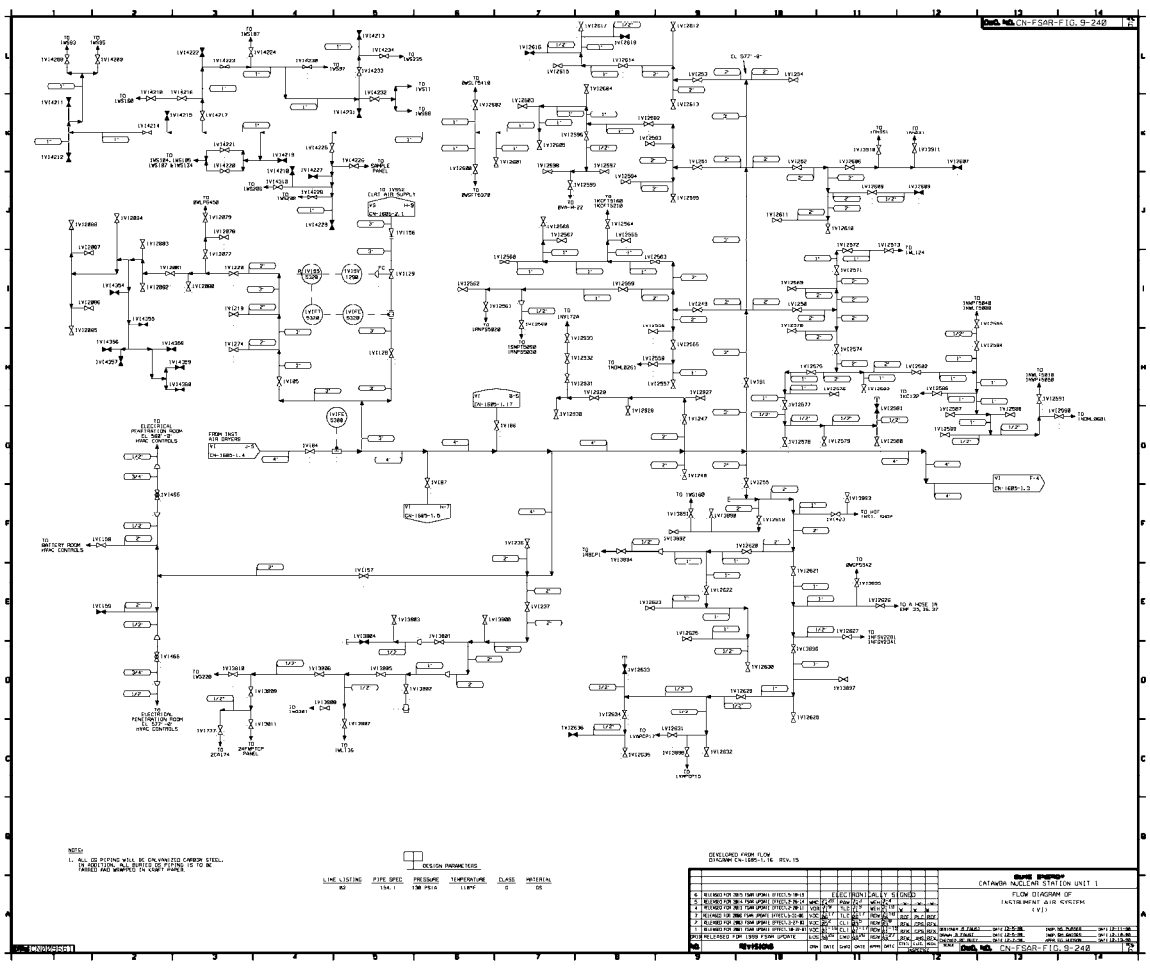

Figure 9-241. Instrument Air System

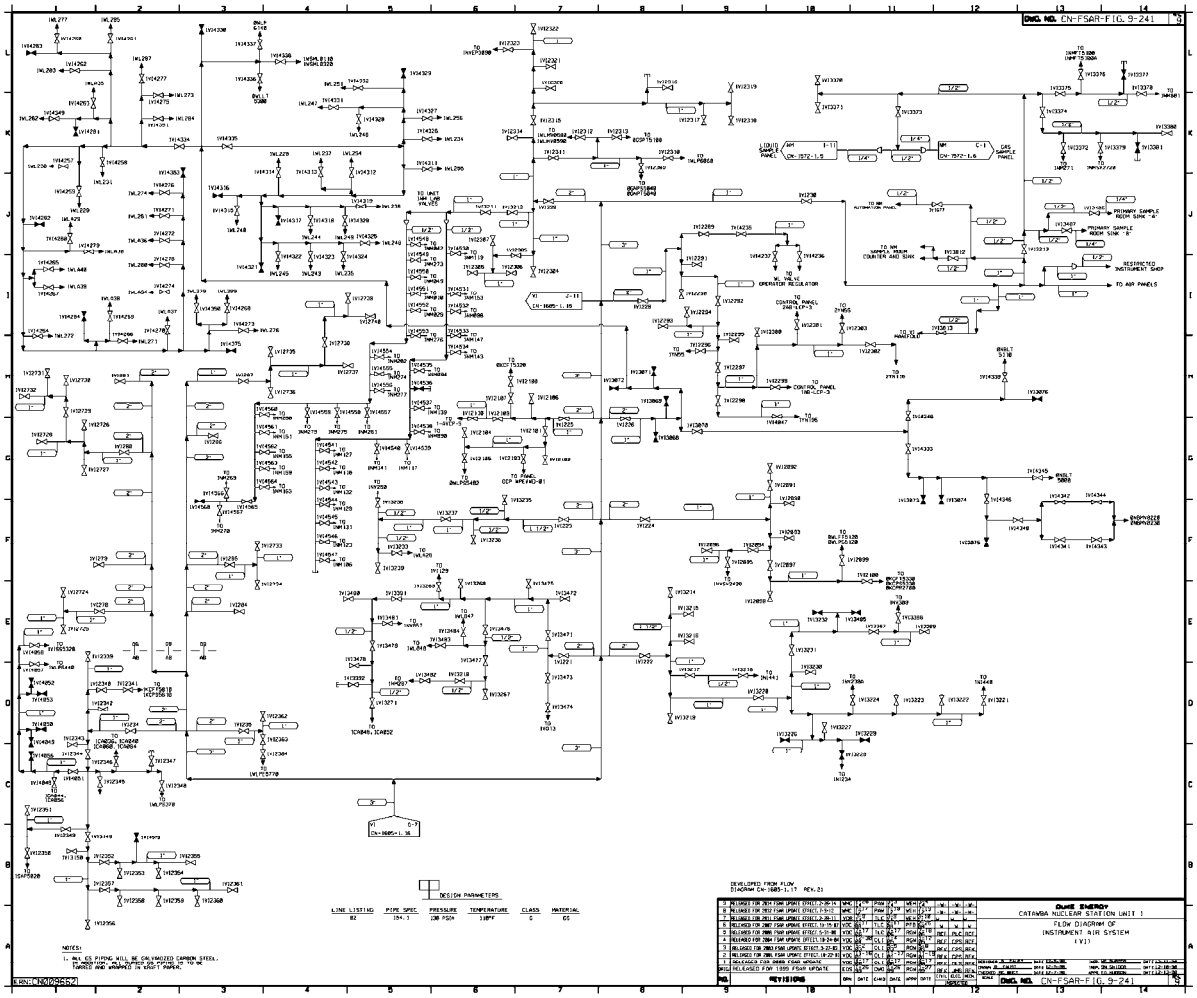

Figure 9-242. Instrument Air System

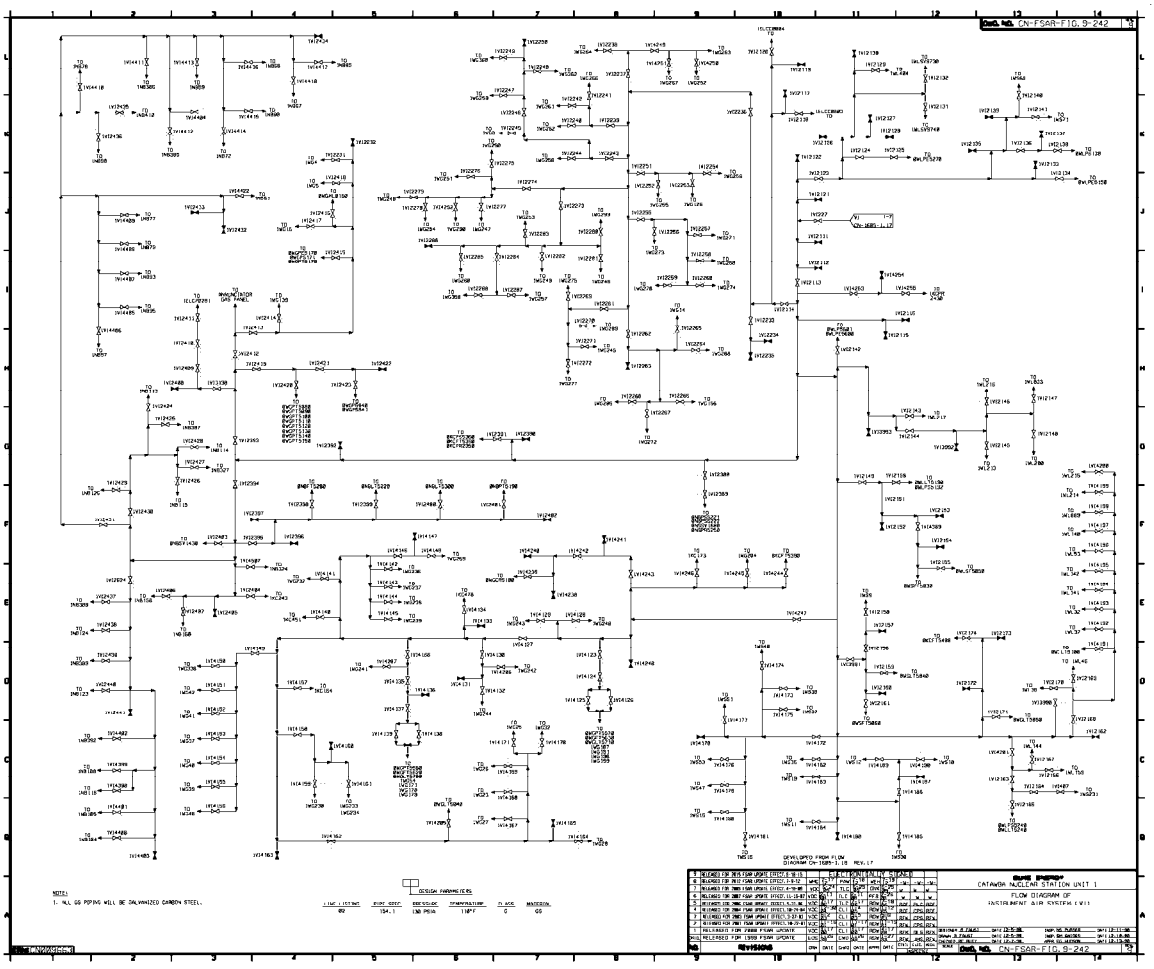

Figure 9-243. Instrument Air System

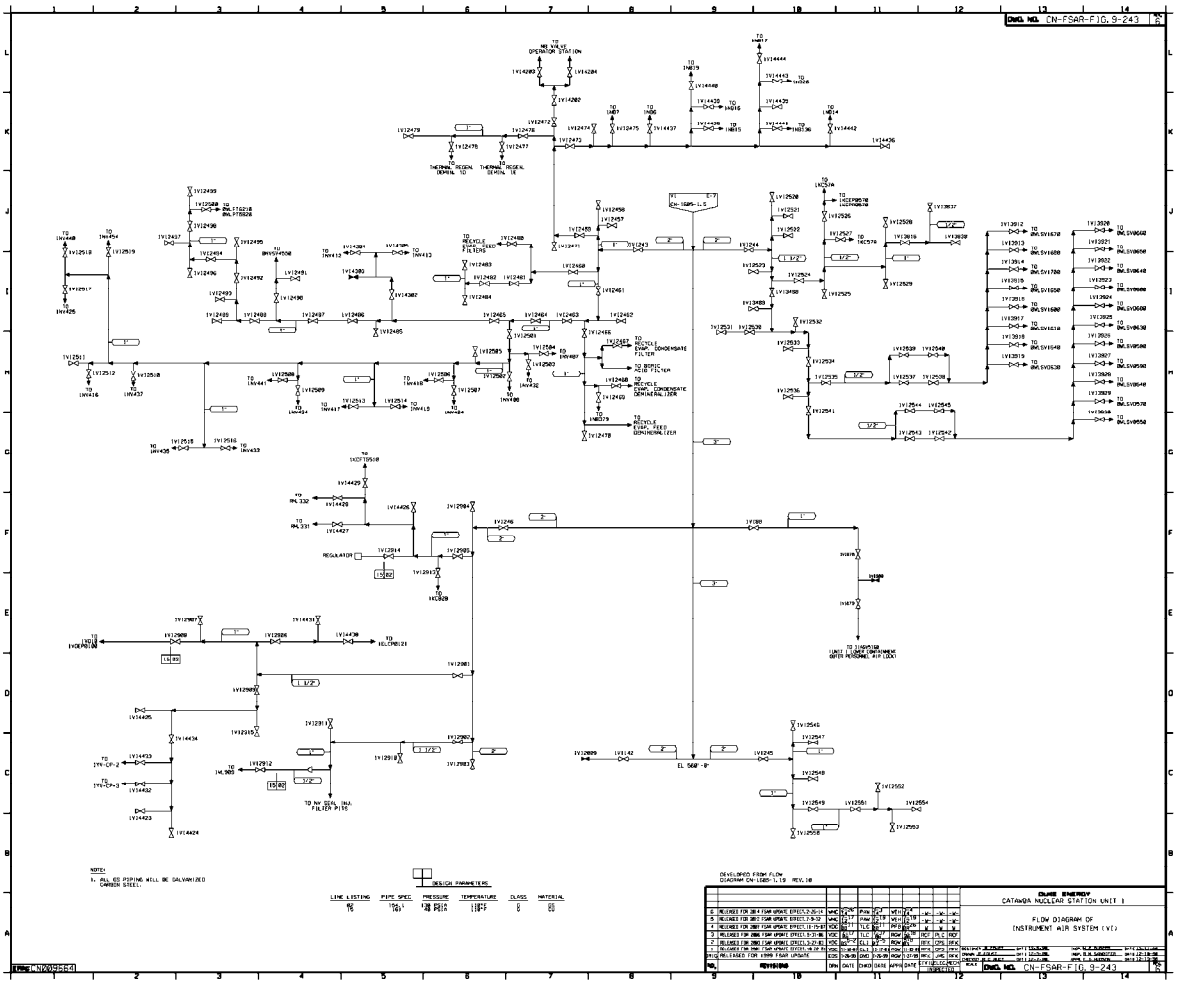

Figure 9-244. Instrument Air System

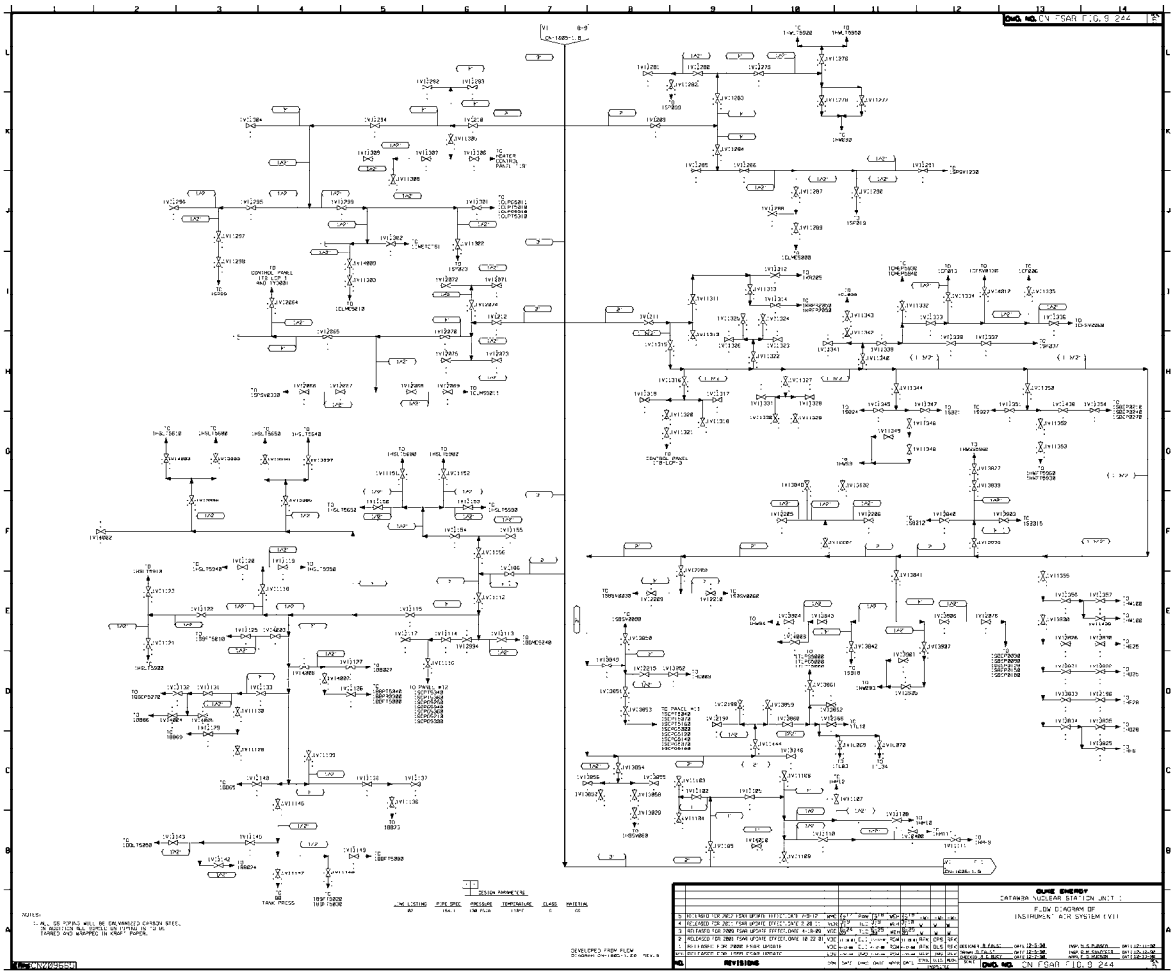

Figure 9-245. Instrument Air System

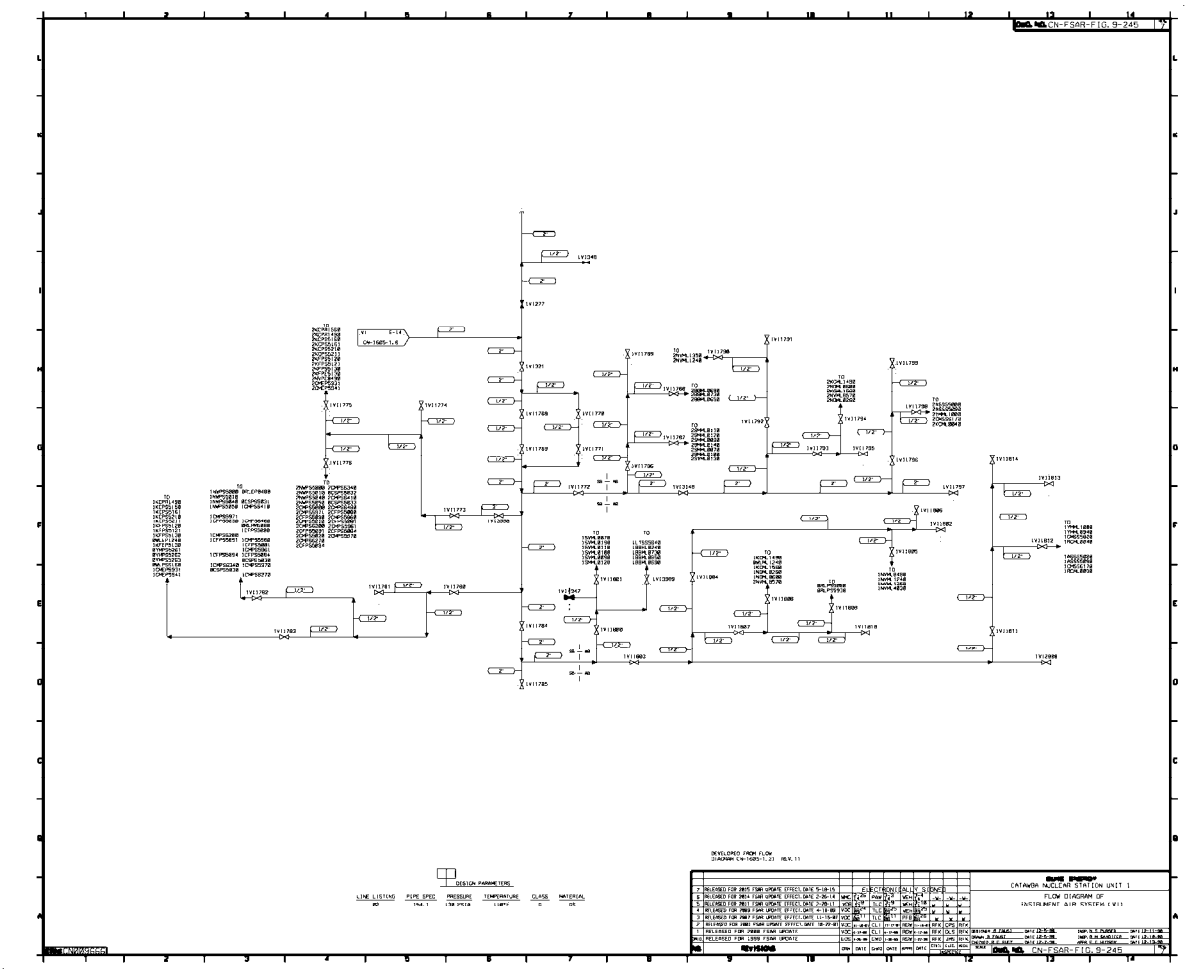

Figure 9-246. Instrument Air System

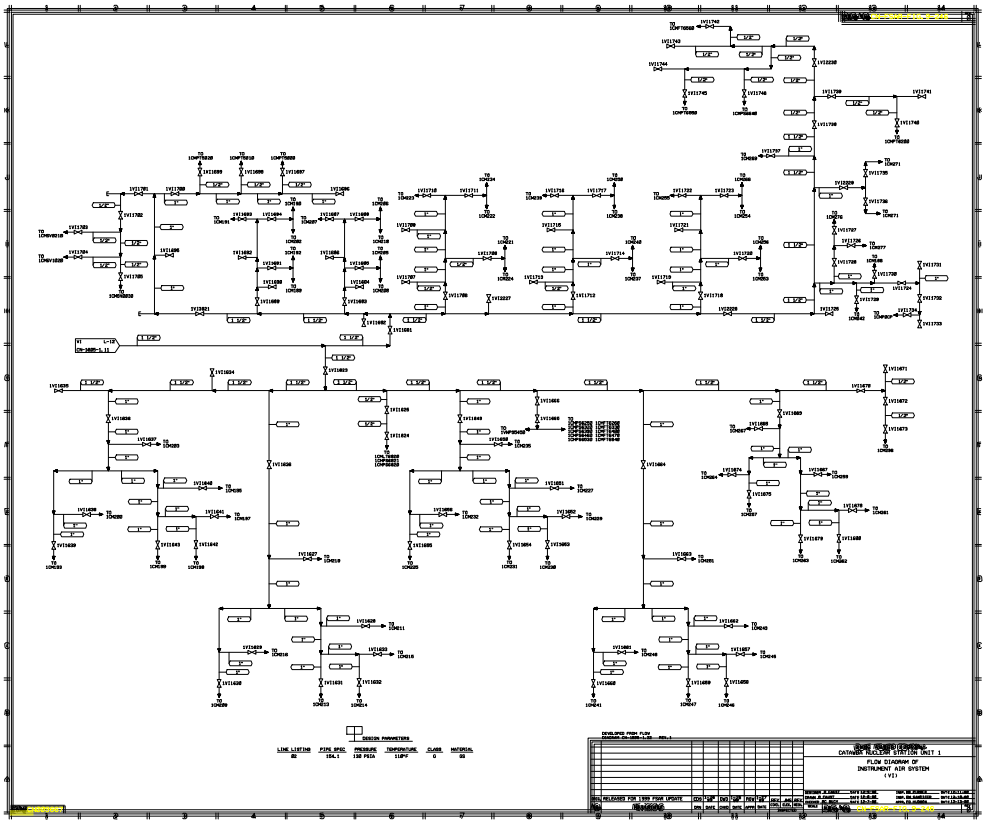

Figure 9-247. Instrument Air System

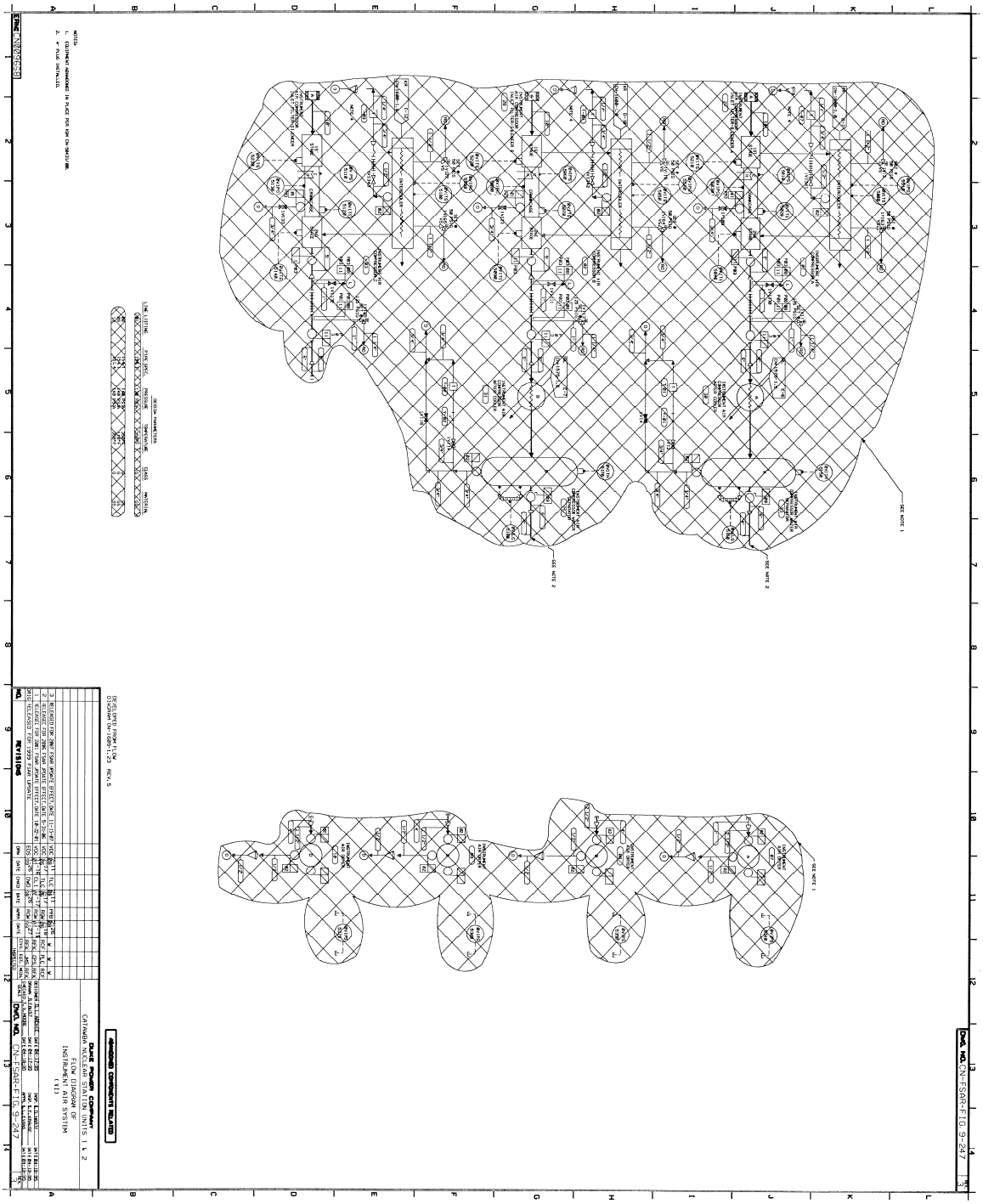

Figure 9-248. Station Air System

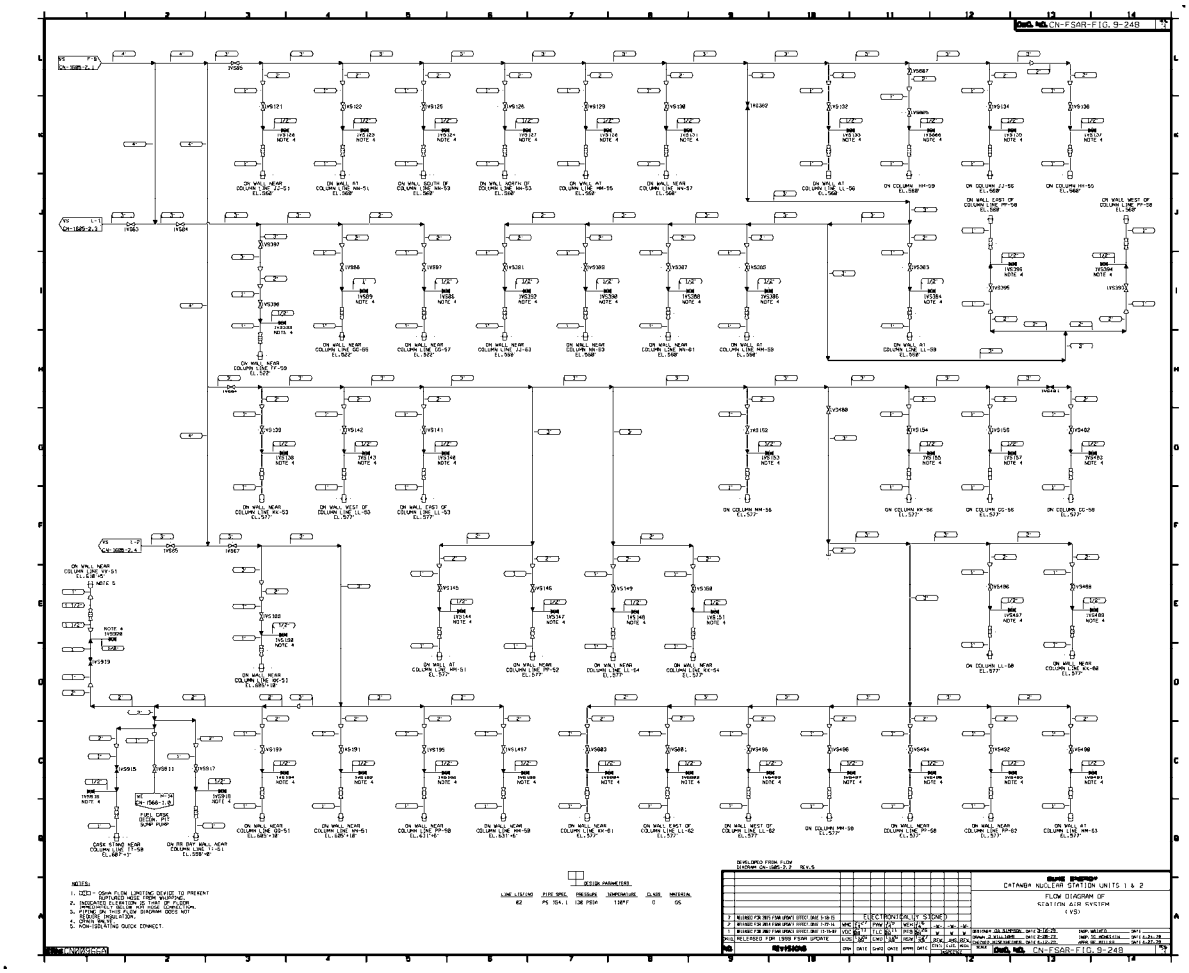

Figure 9-249. Auxiliary Building Ventilation System

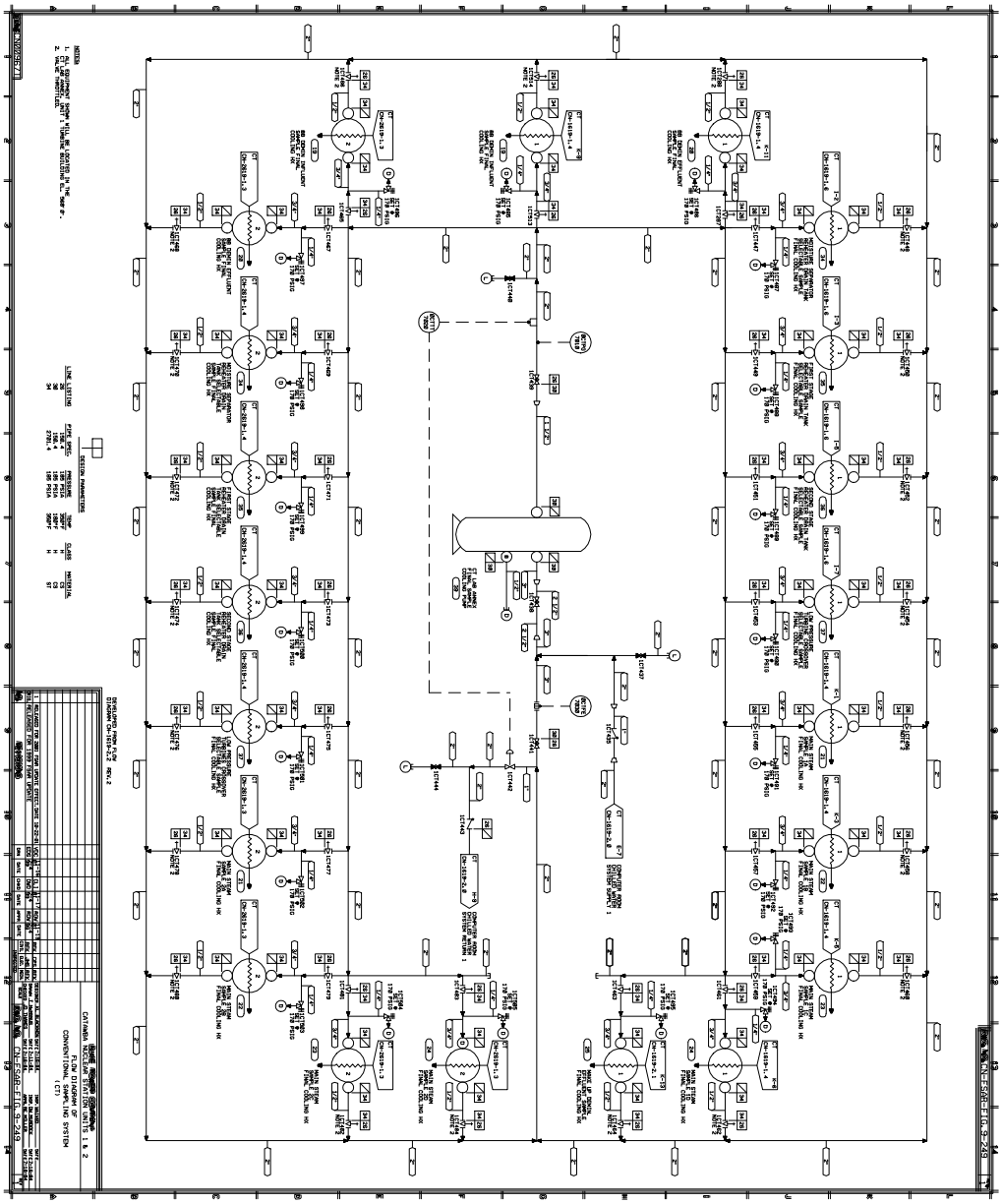

Figure 9-250. Station Air System

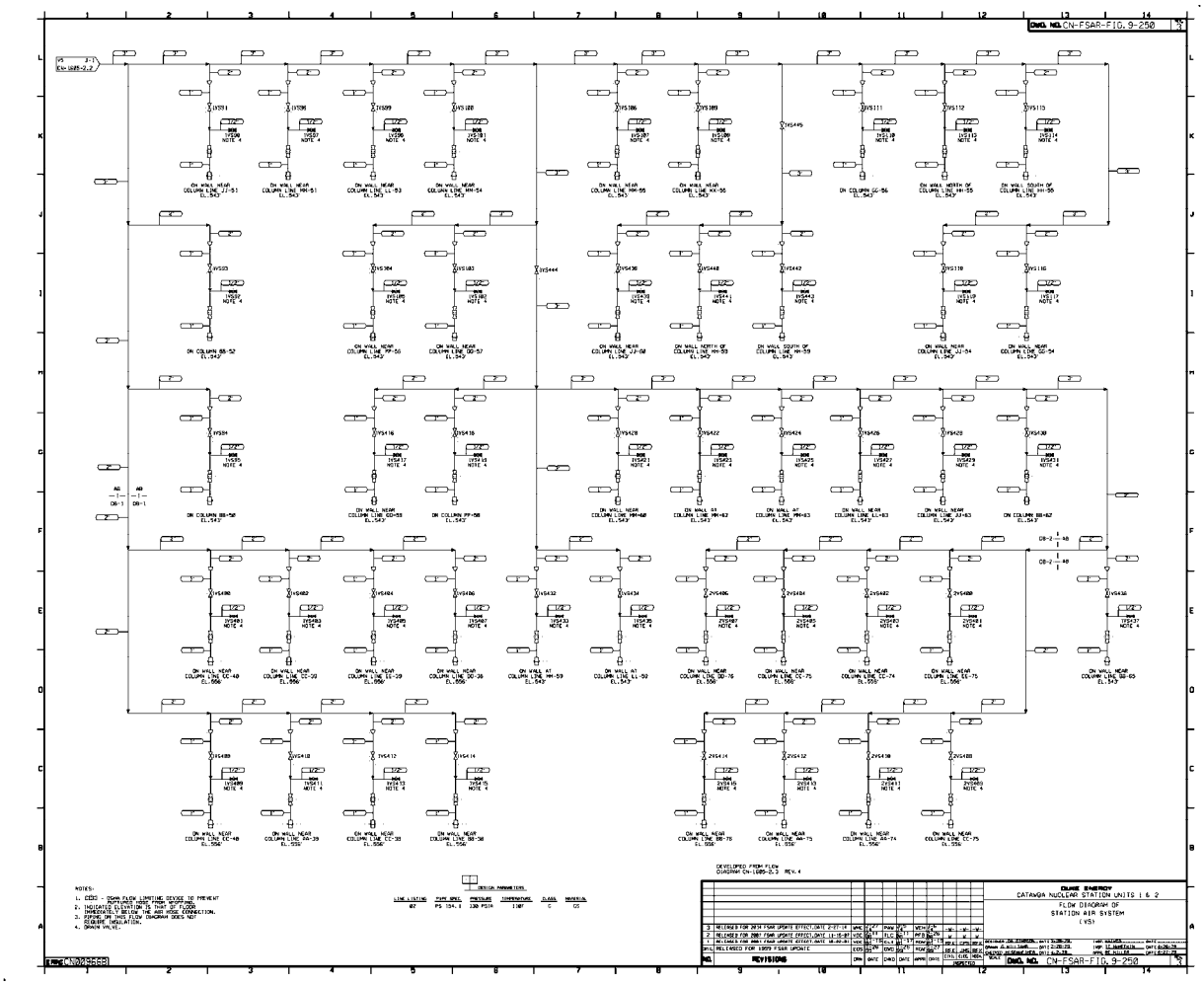

Figure 9-251. Station Air System

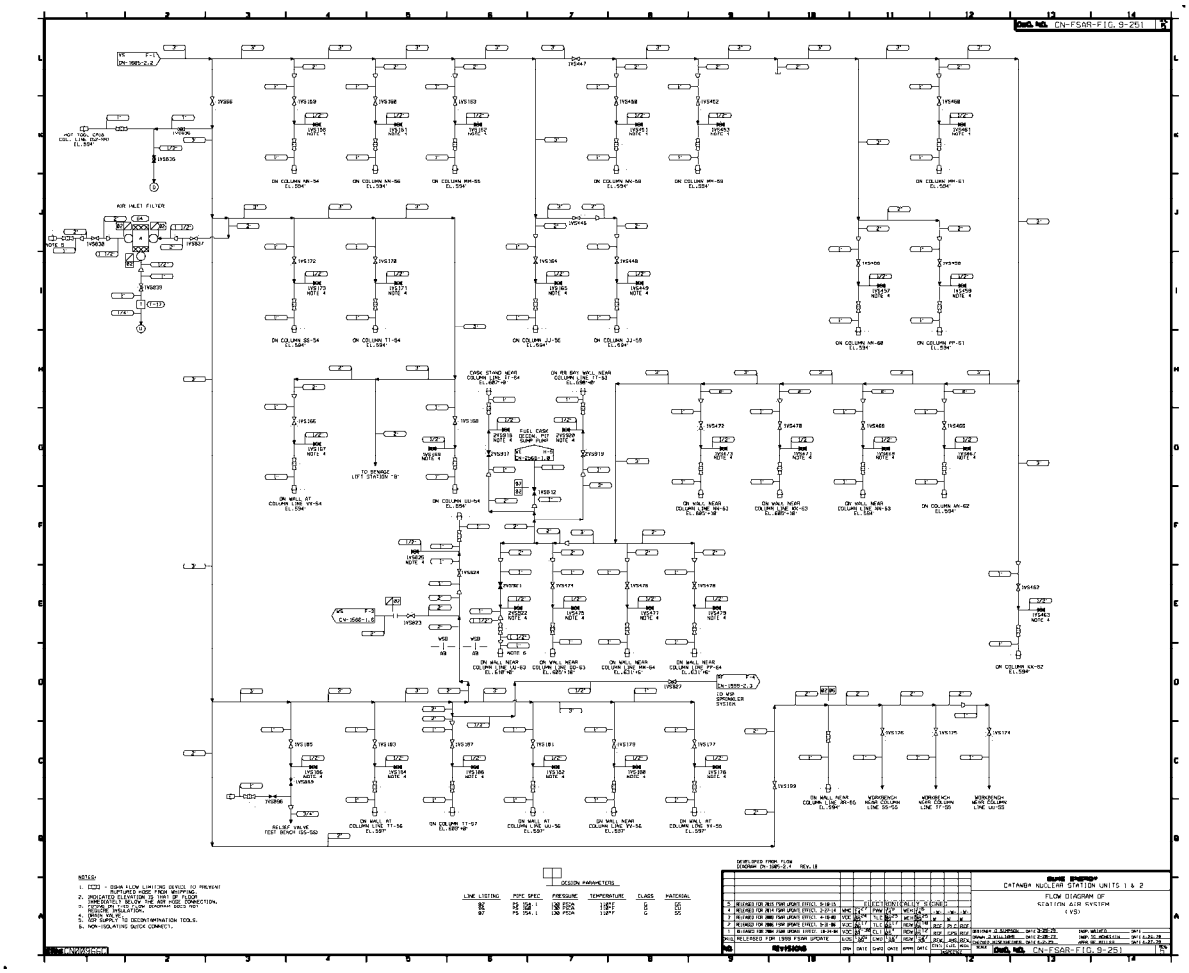

Figure 9-252. Station Air System

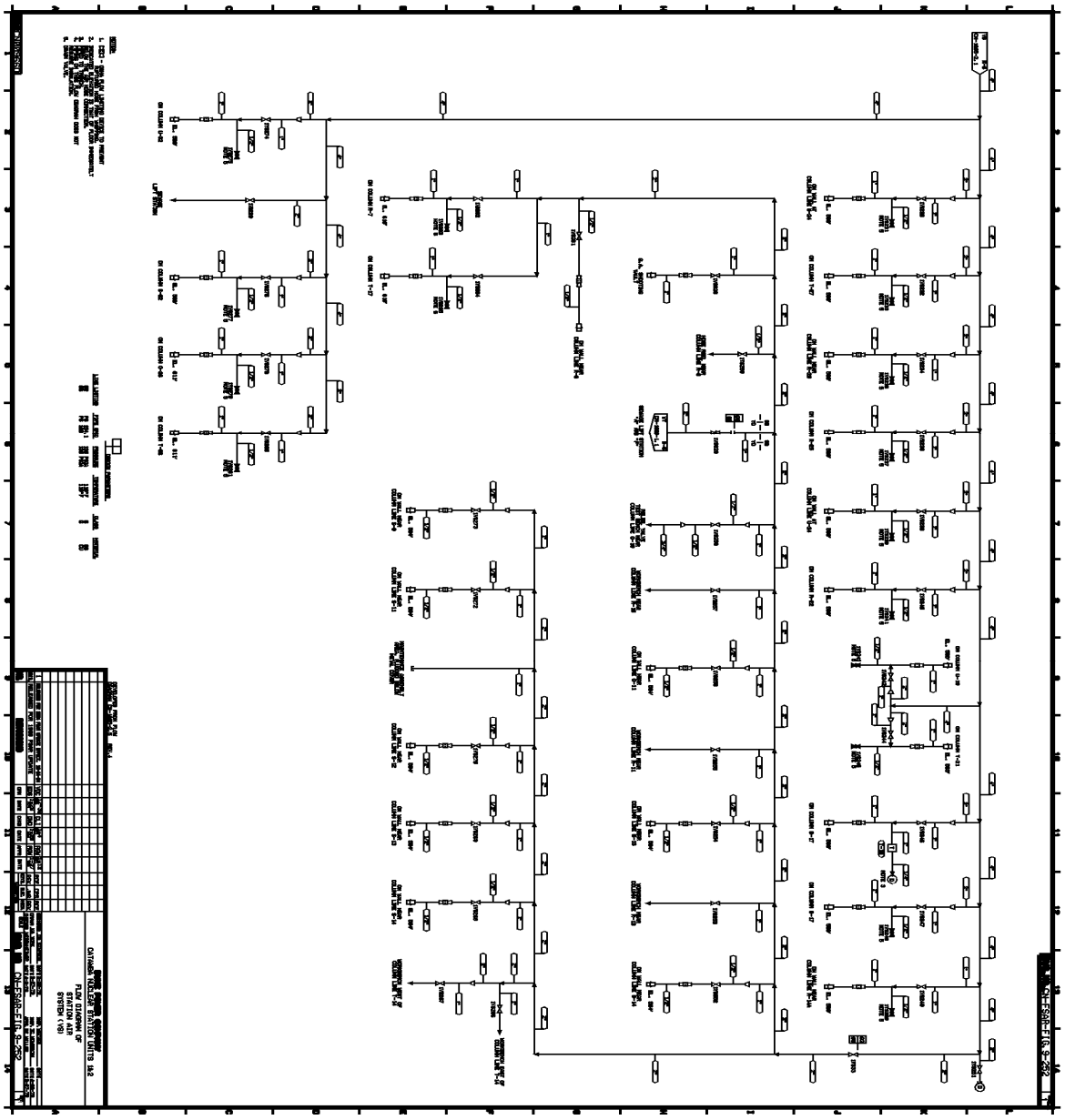

Figure 9-253. Station Air System

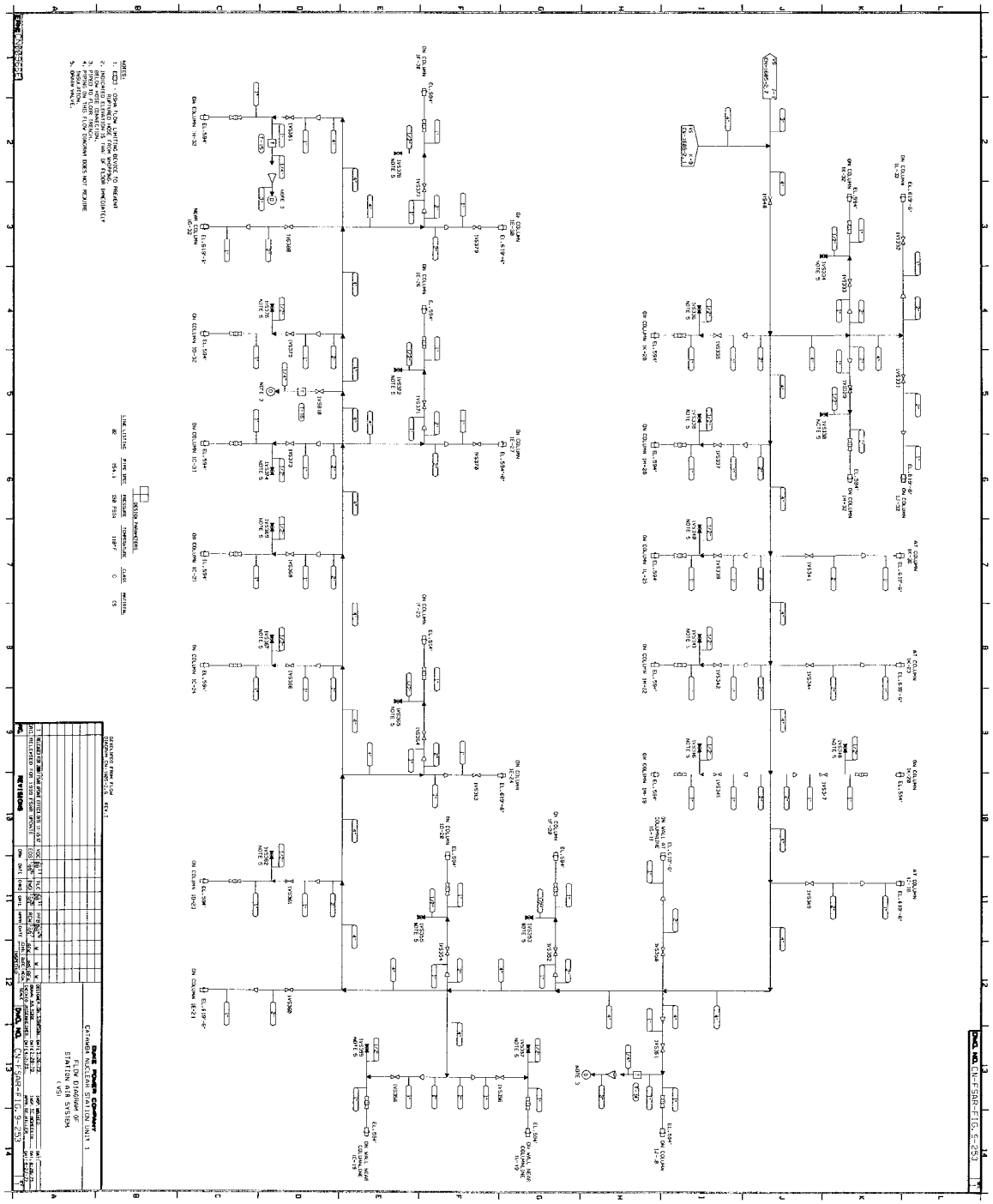

Figure 9-254. Station Air System

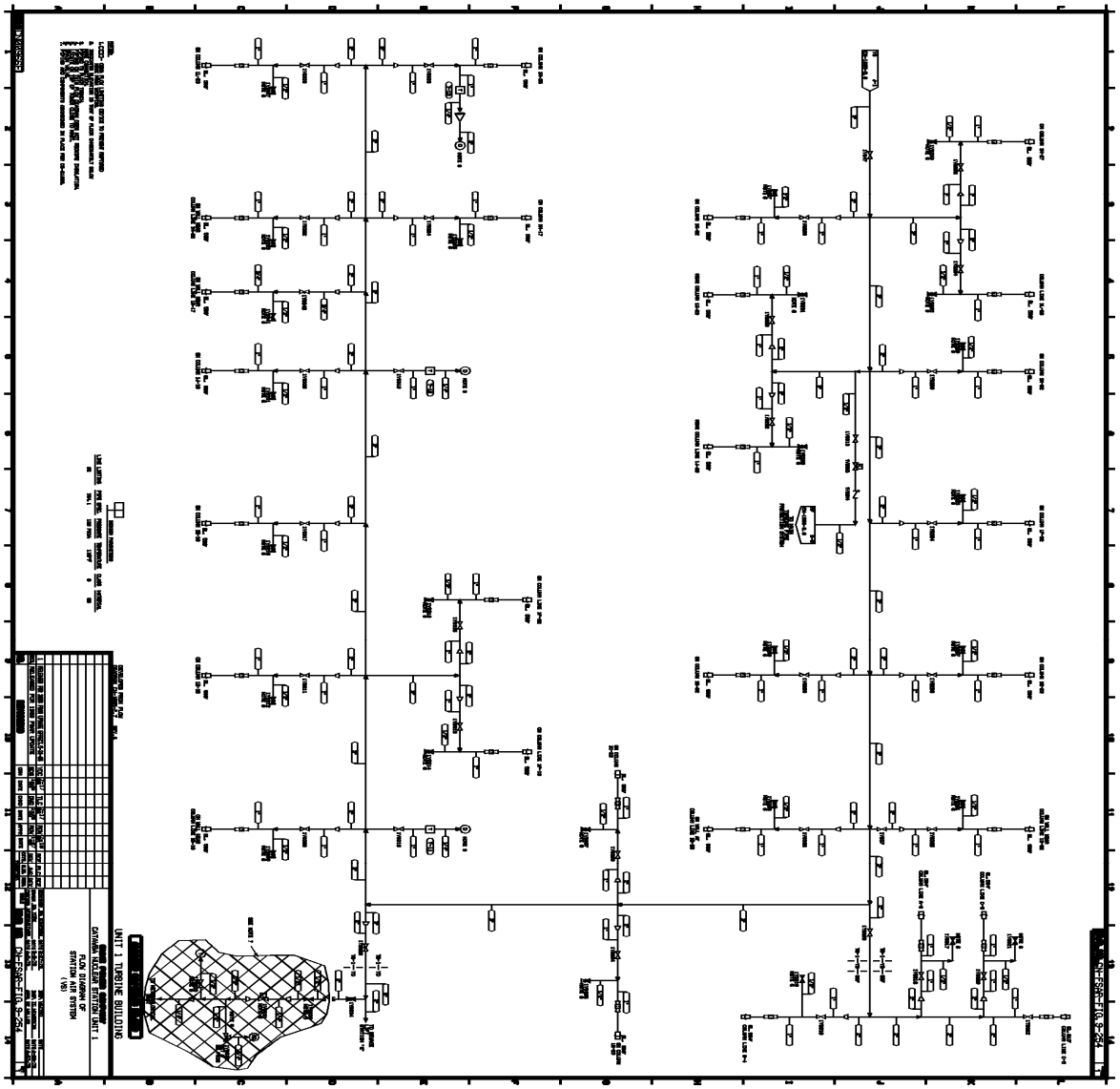

Figure 9-255. Turbine Building Ventilation System

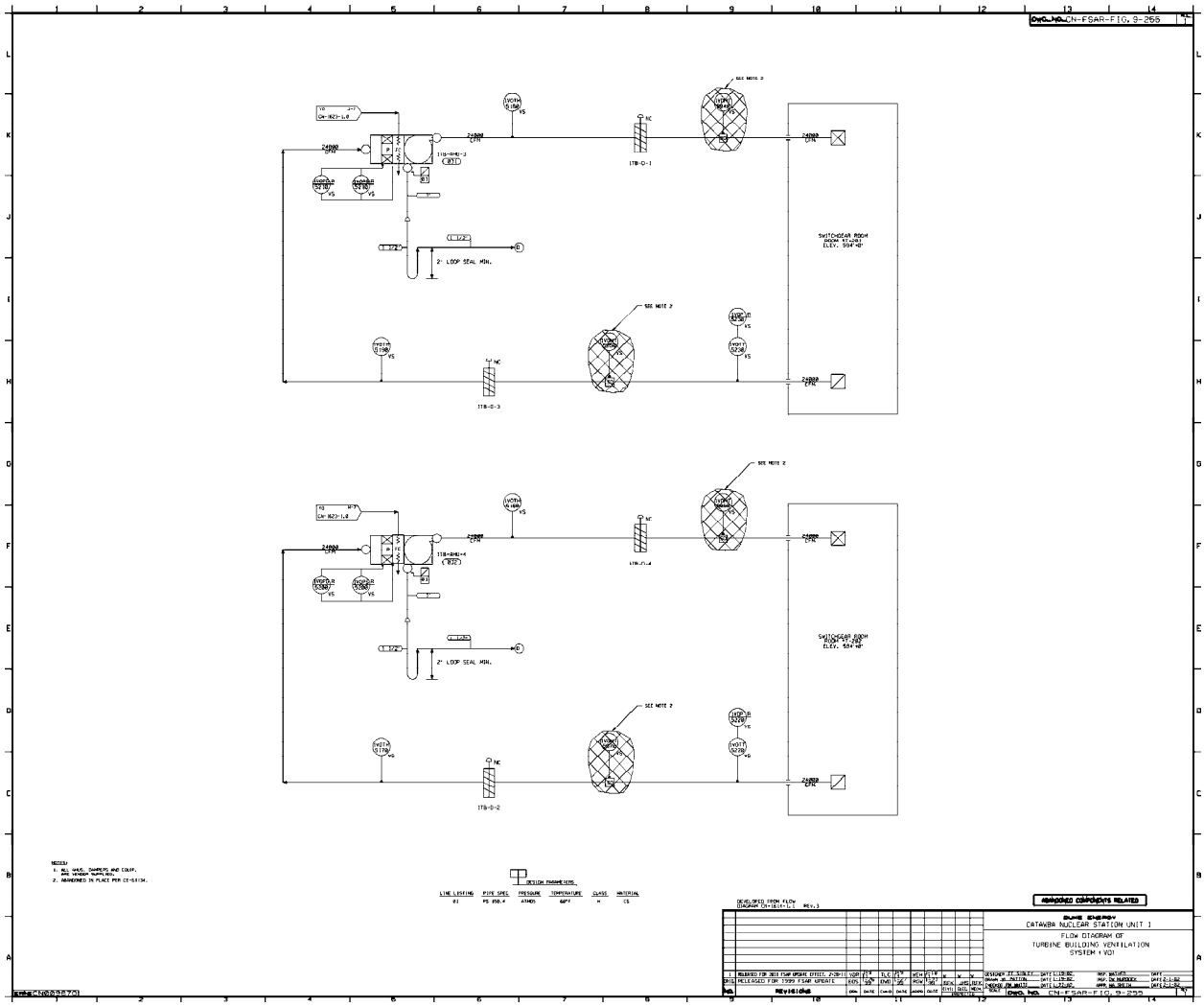

Figure 9-256. Turbine Building Ventilation System

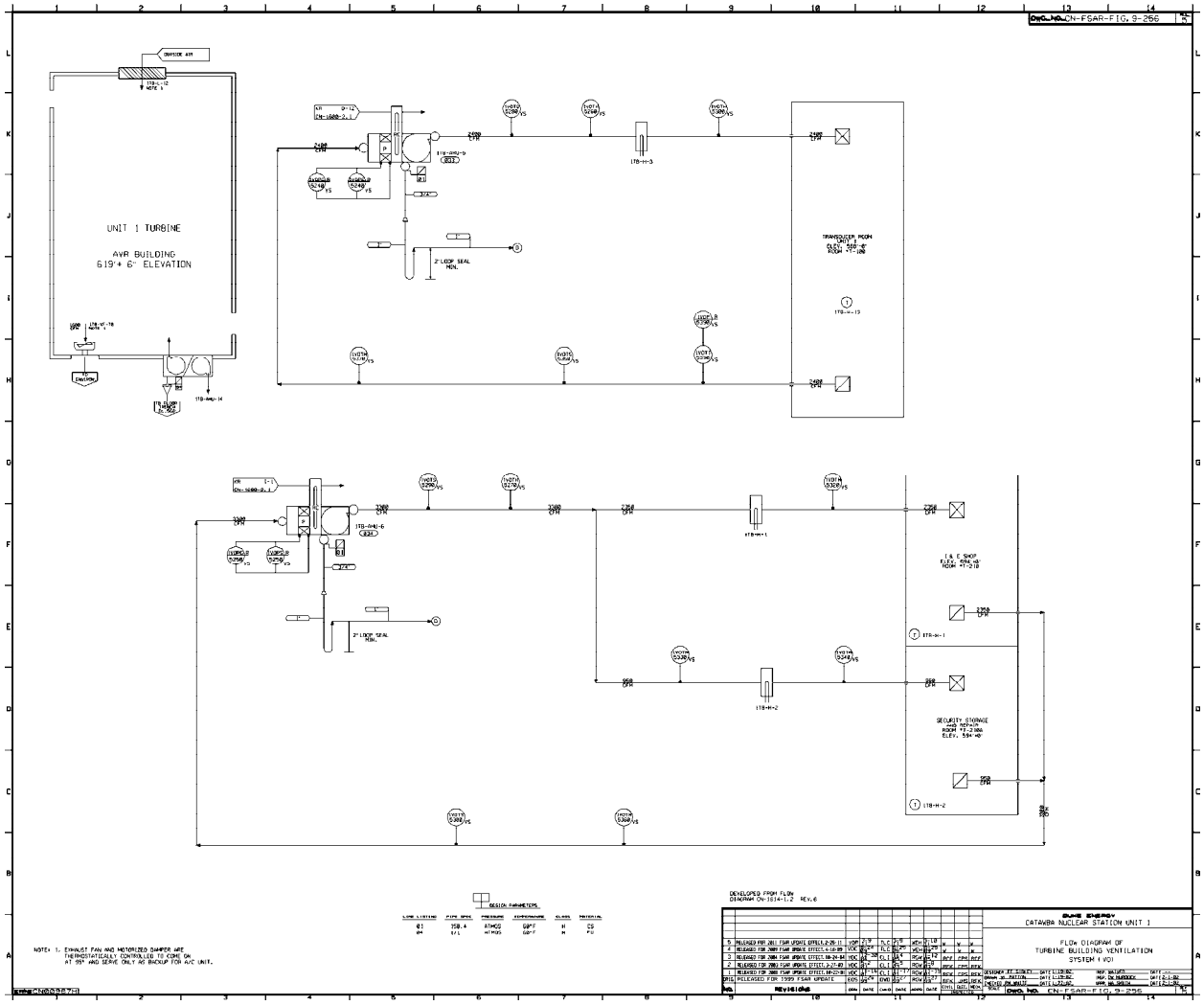

Figure 9-257. Turbine Building Ventilation System

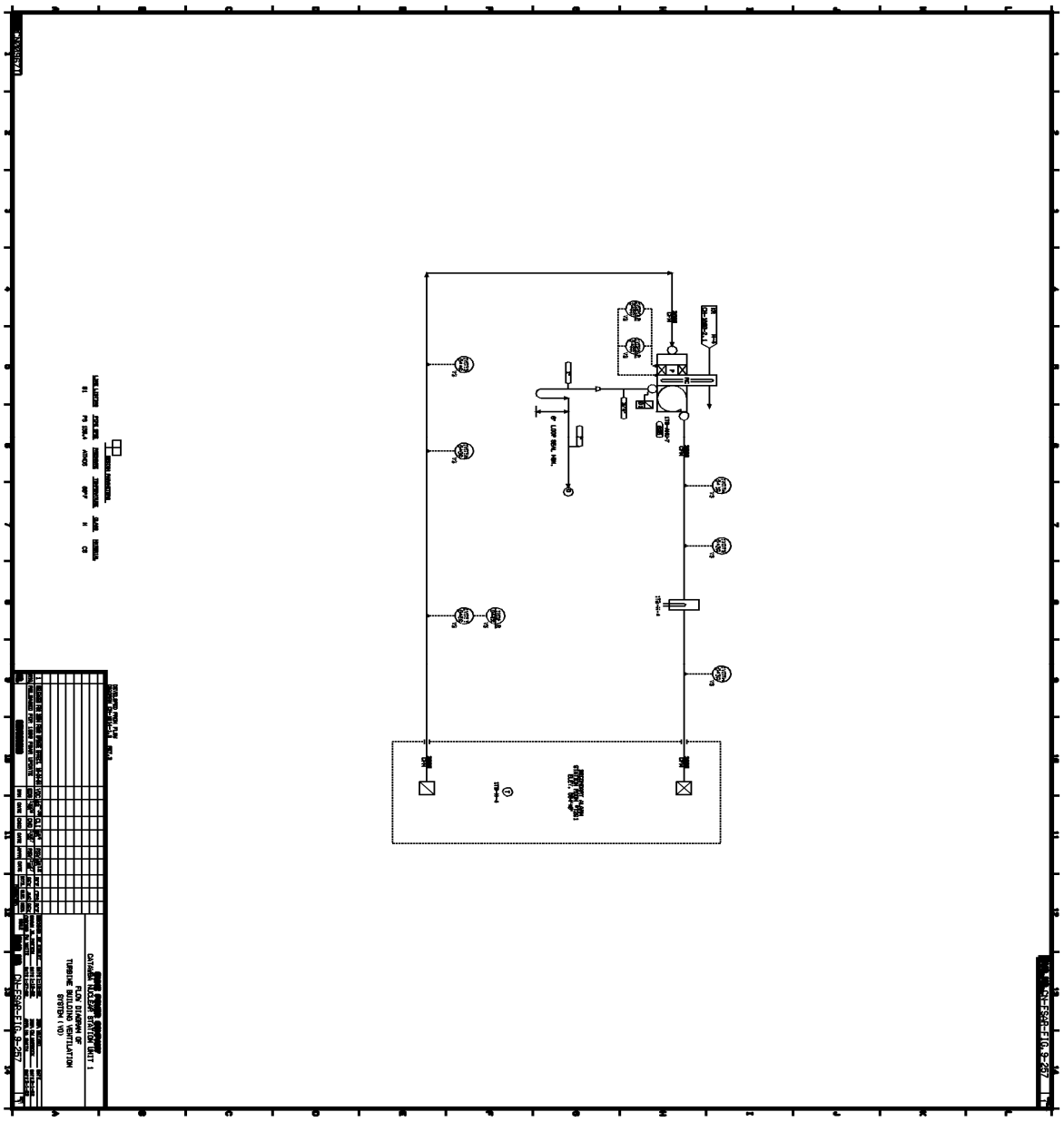

Figure 9-258. Turbine Building Ventilation System

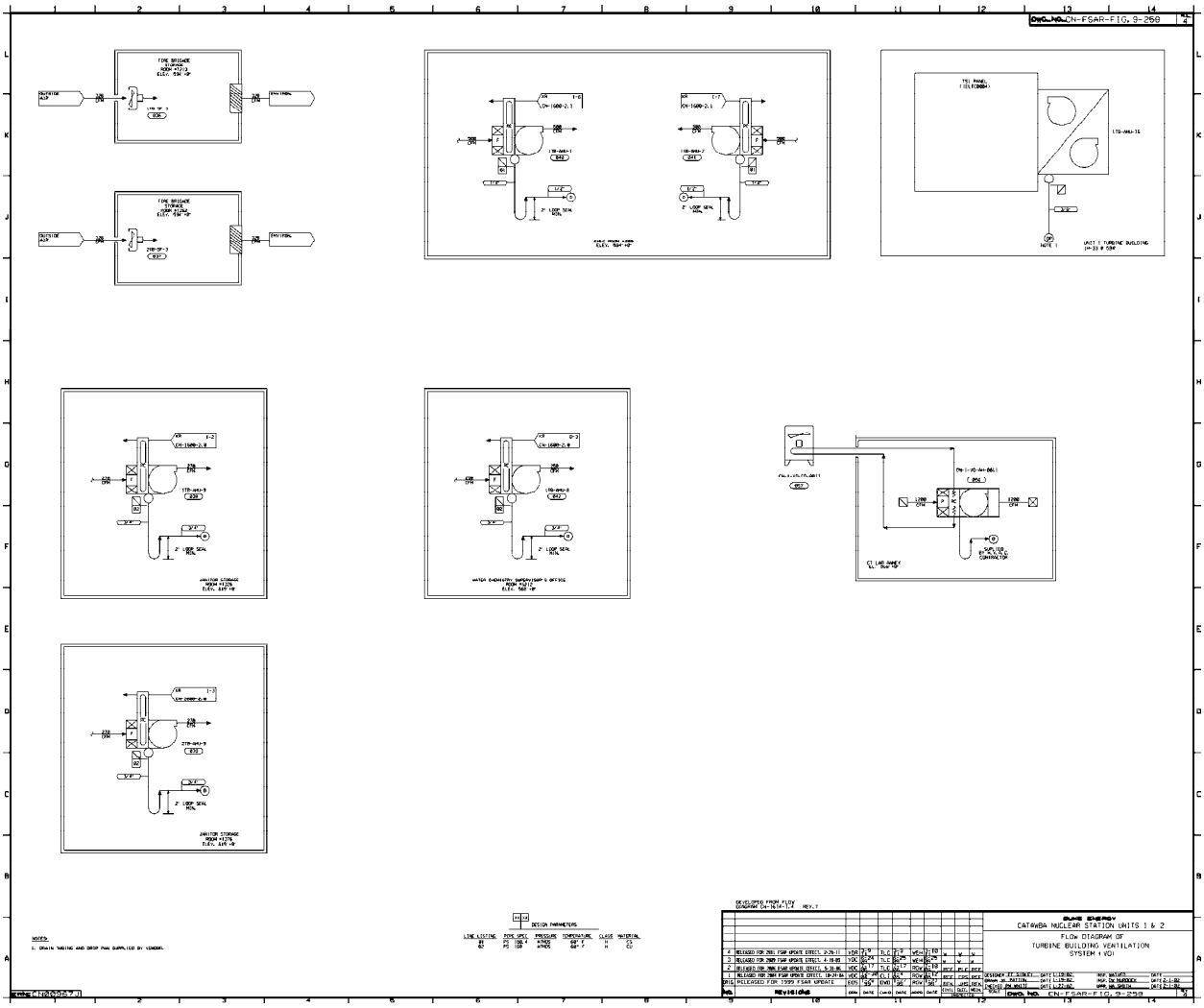

Figure 9-259. Turbine Building Ventilation System

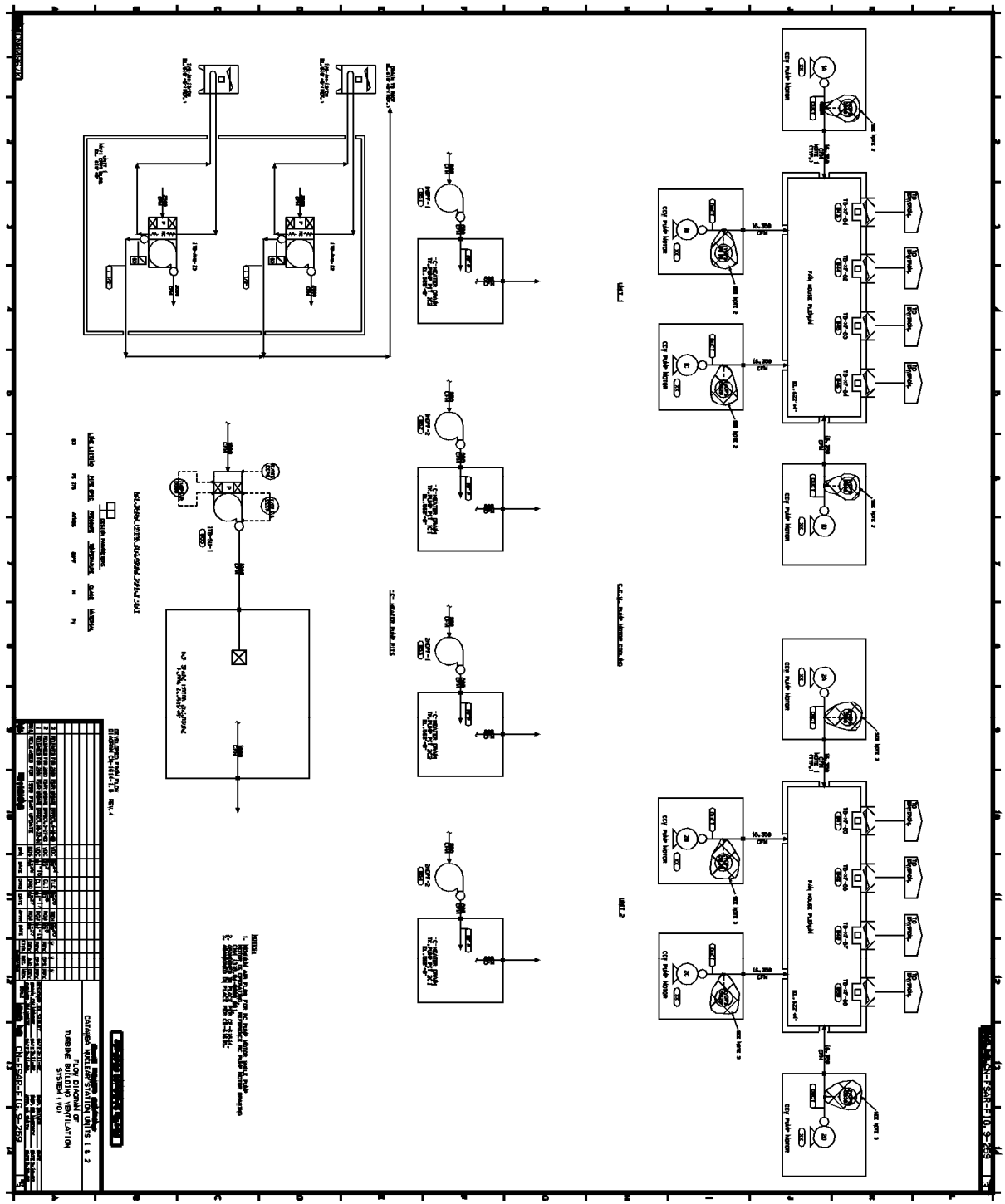

Figure 9-260. Conventional Sampling System

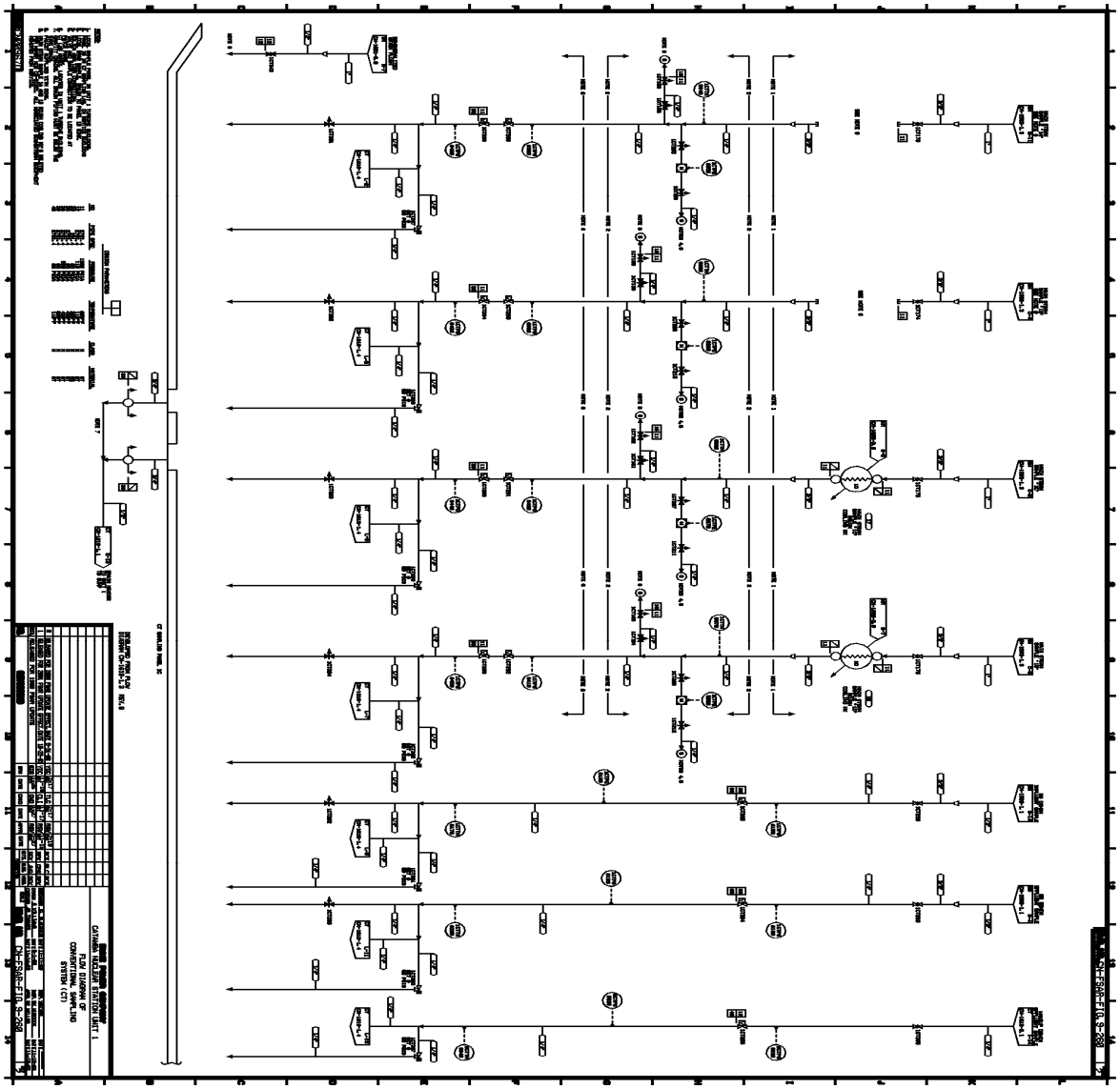

Figure 9-261. Conventional Sampling System

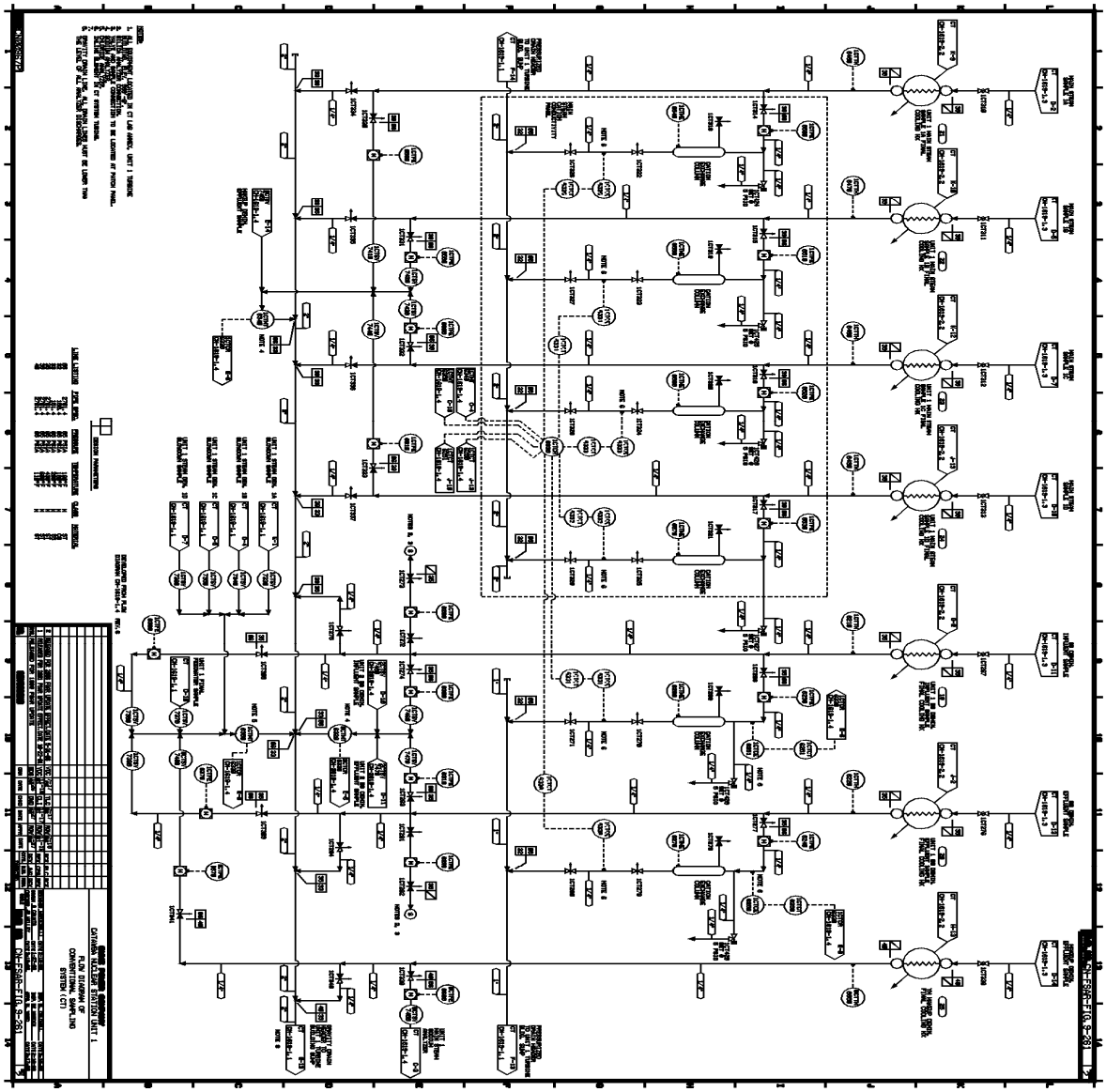

Figure 9-262. Conventional Sampling System

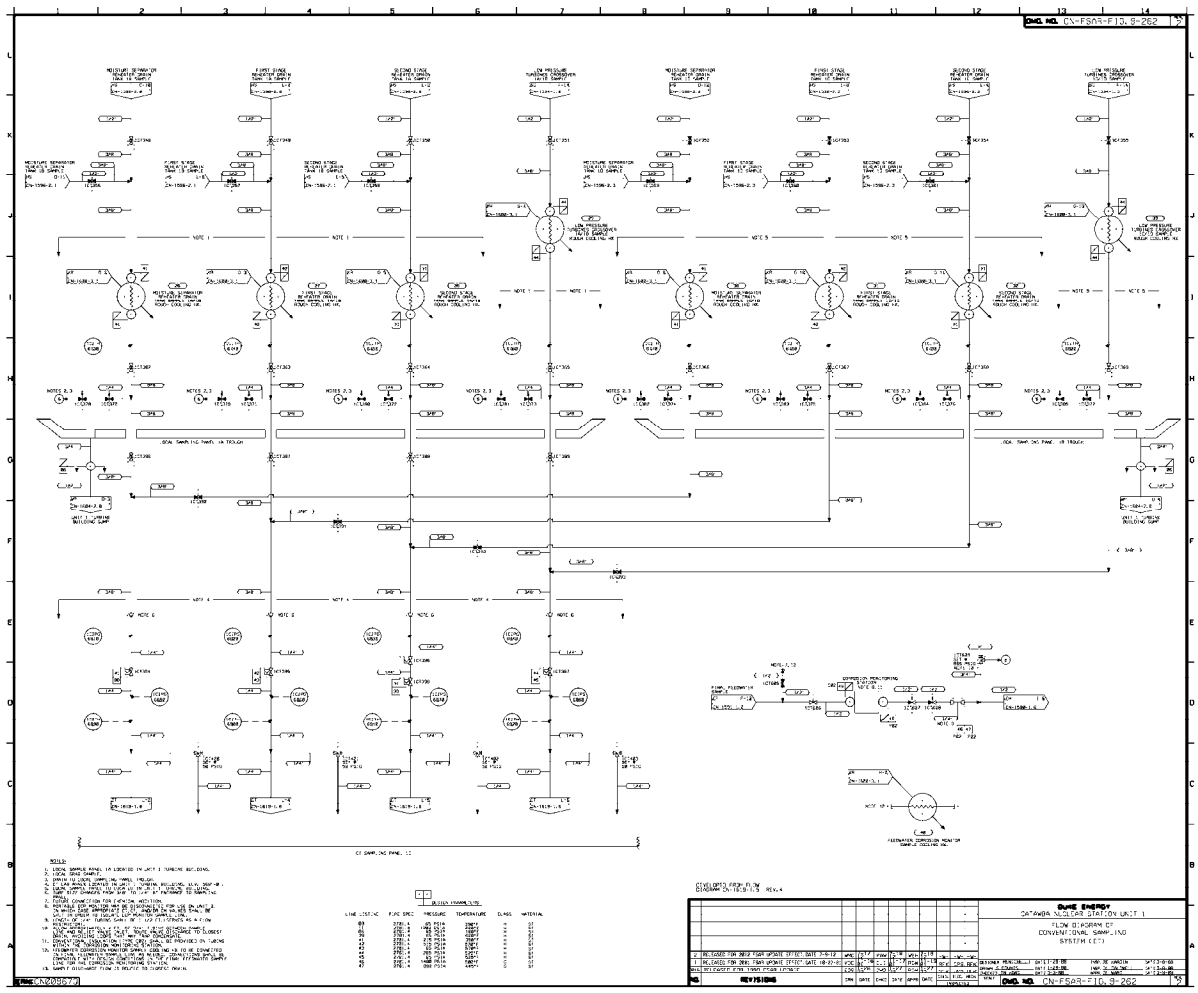

Figure 9-263. Conventional Sampling System

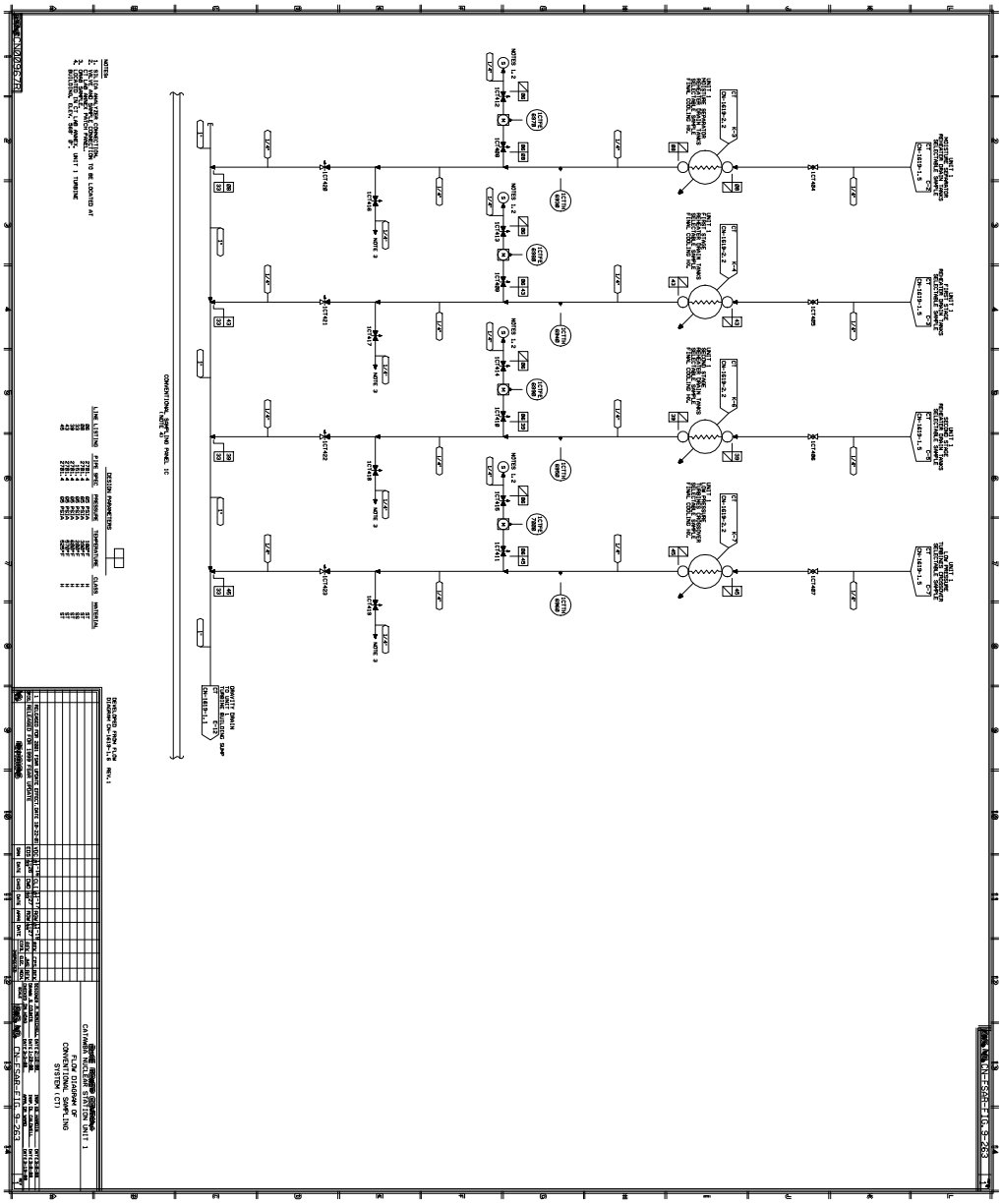

Figure 9-264. Boron Recycle System

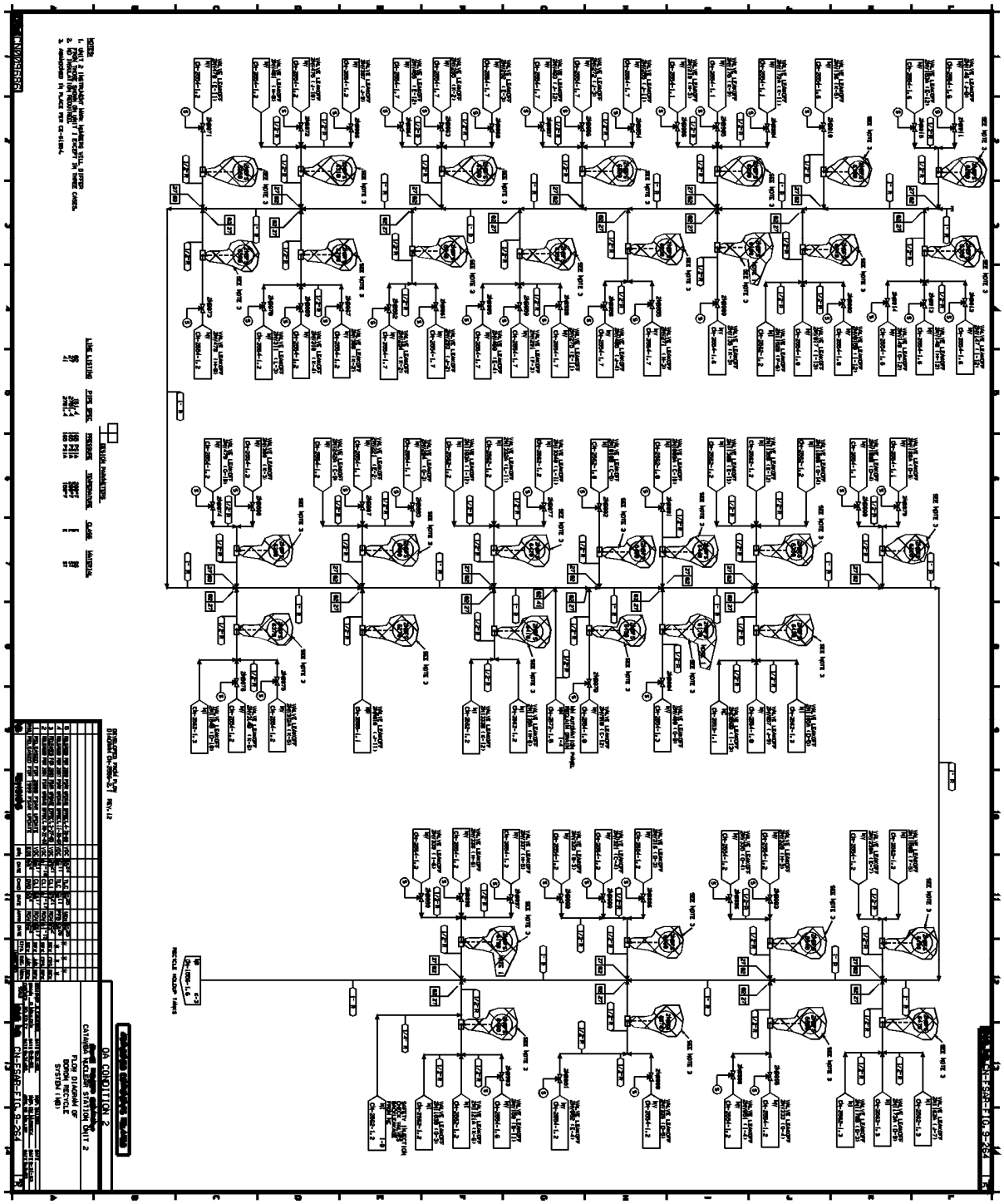

Figure 9-265. Boron Recycle System

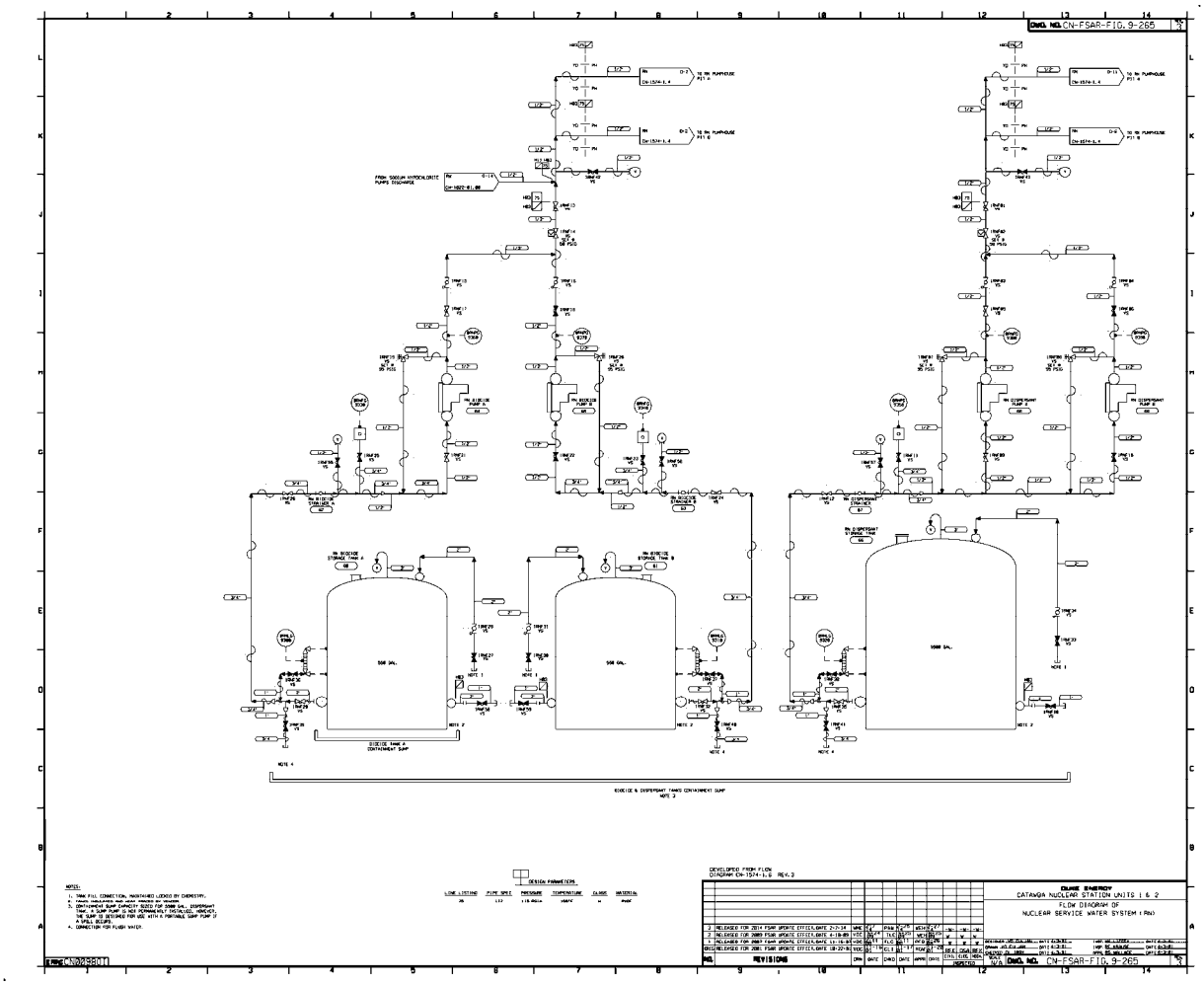

Figure 9-266. Nuclear Service Water System Plastic Pipe

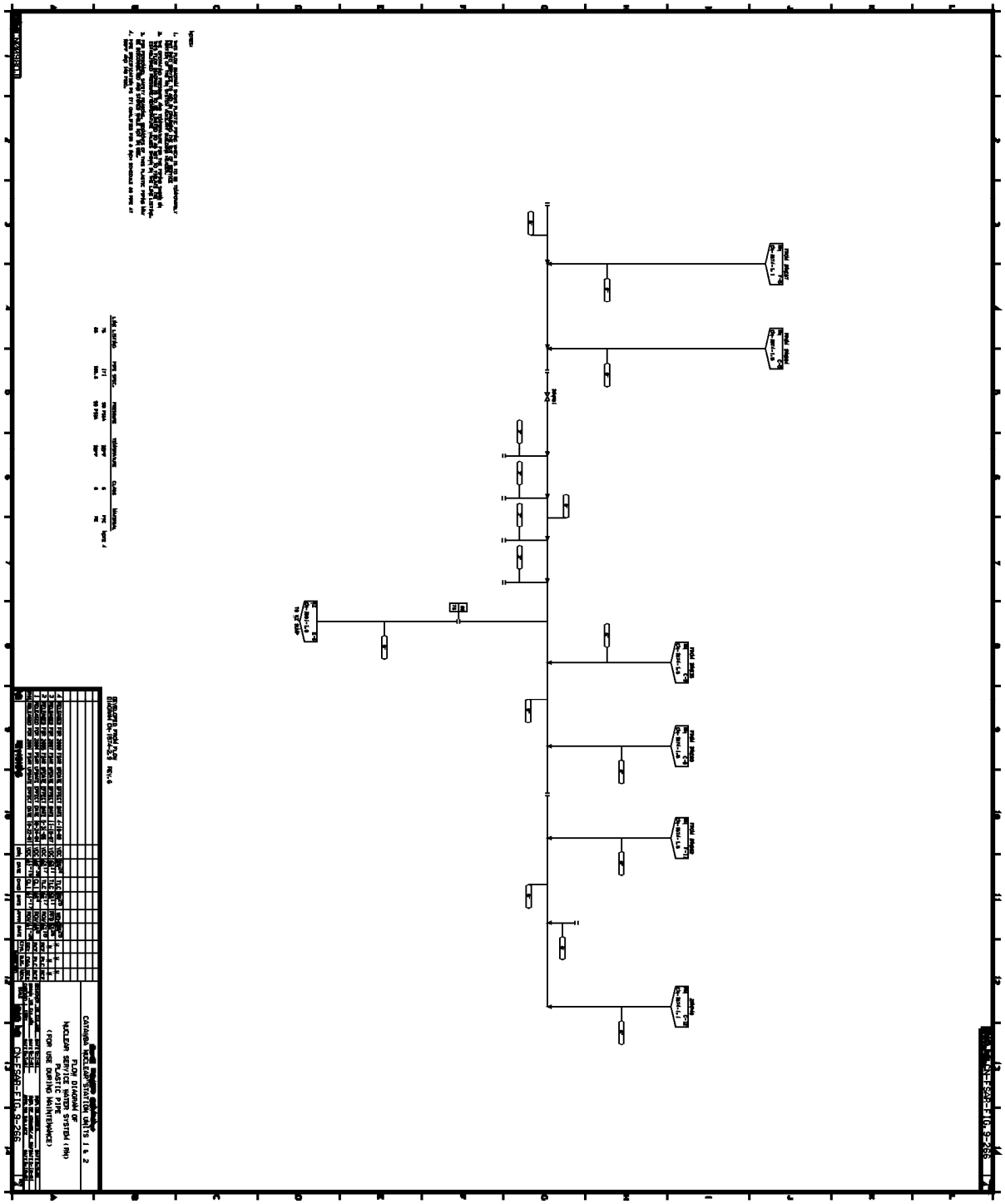

Figure 9-267. Reserved for Future Use

Figure 9-268. Chemical and Volume System (NV)

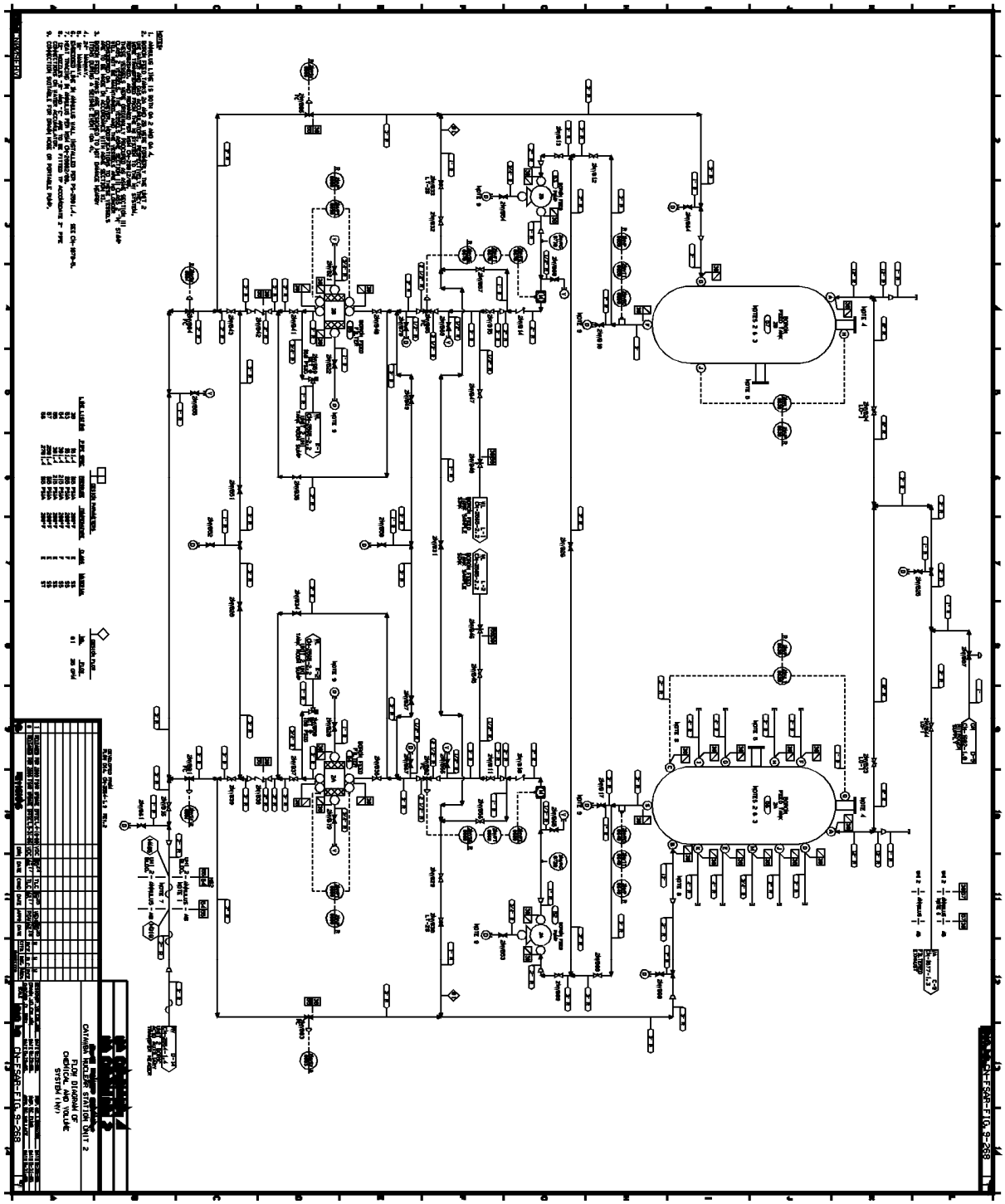

Figure 9-269. Containment Chilled Water System (YV)

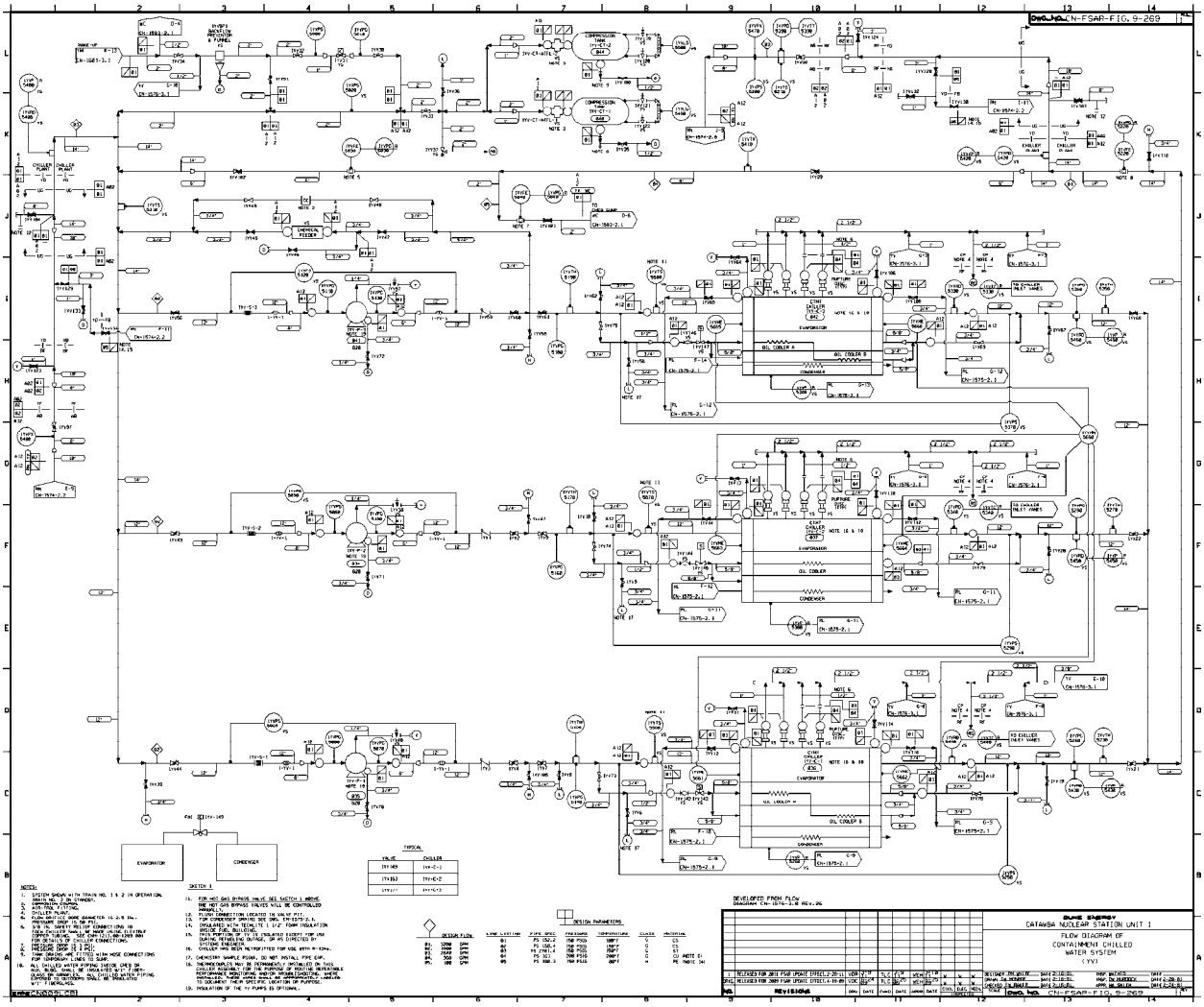

Figure 9-270. Containment Chilled Water System (YV)

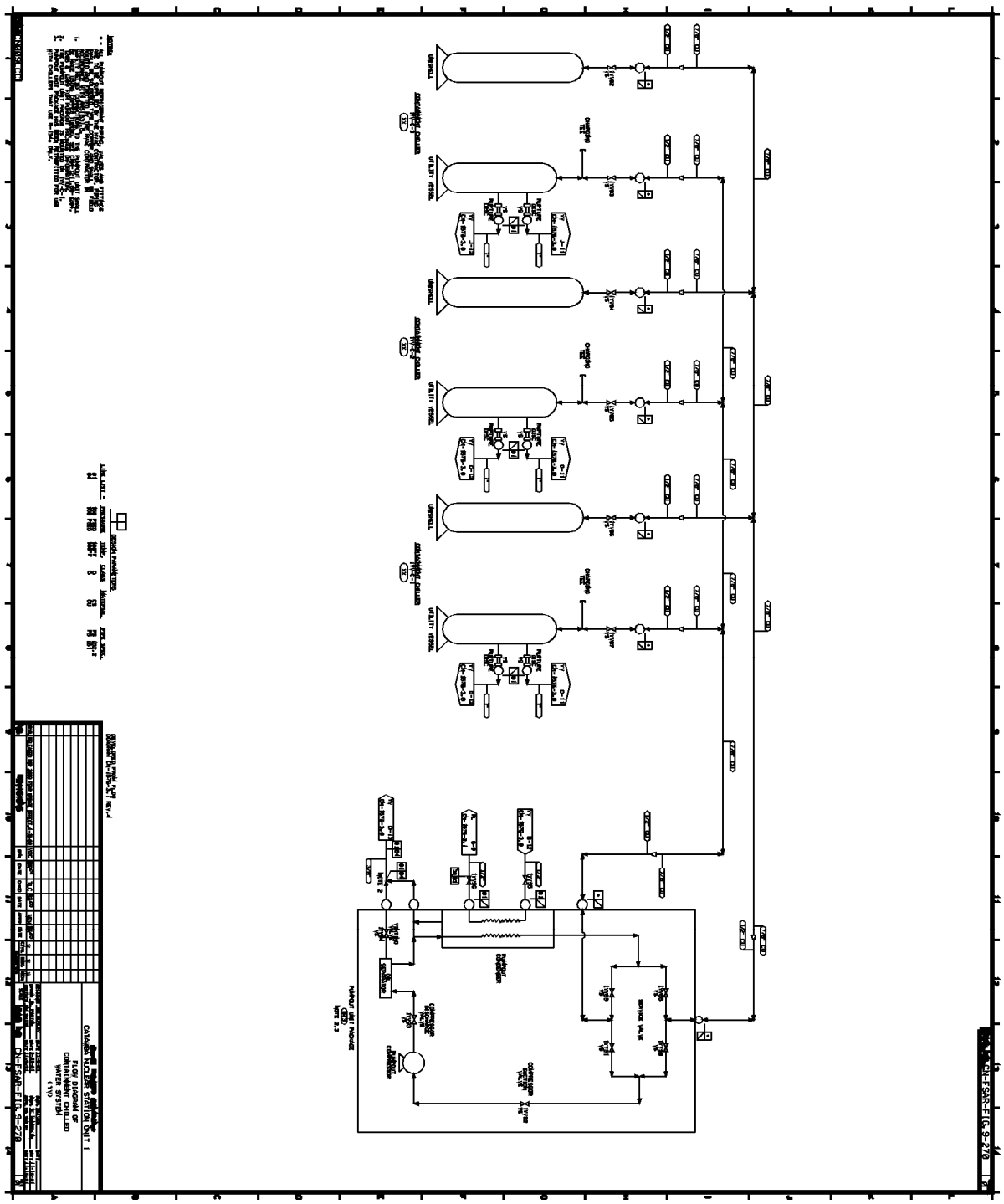

Figure 9-271. Station Air System (VS)

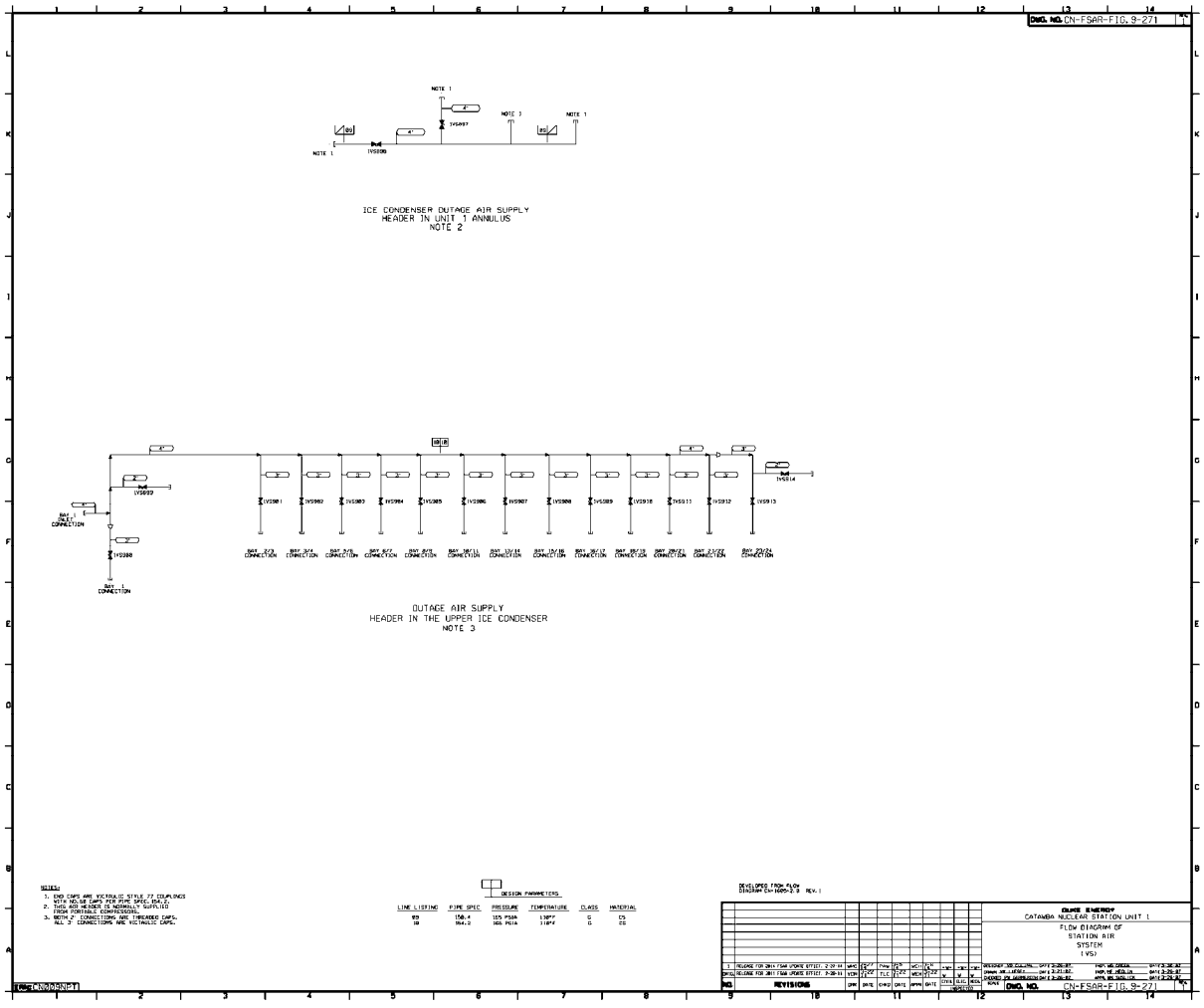

Figure 9-272. Diesel Gen. Engine Lube Oil System (LD)