

AMENDMENT 76
MAY 1, 1989

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

EFFECT OF IRREVERSIBLE LOSSES
OF ASYMPTOTIC AREA RATIO

FIGURE 3.6B-96E

CPSES / FSAR

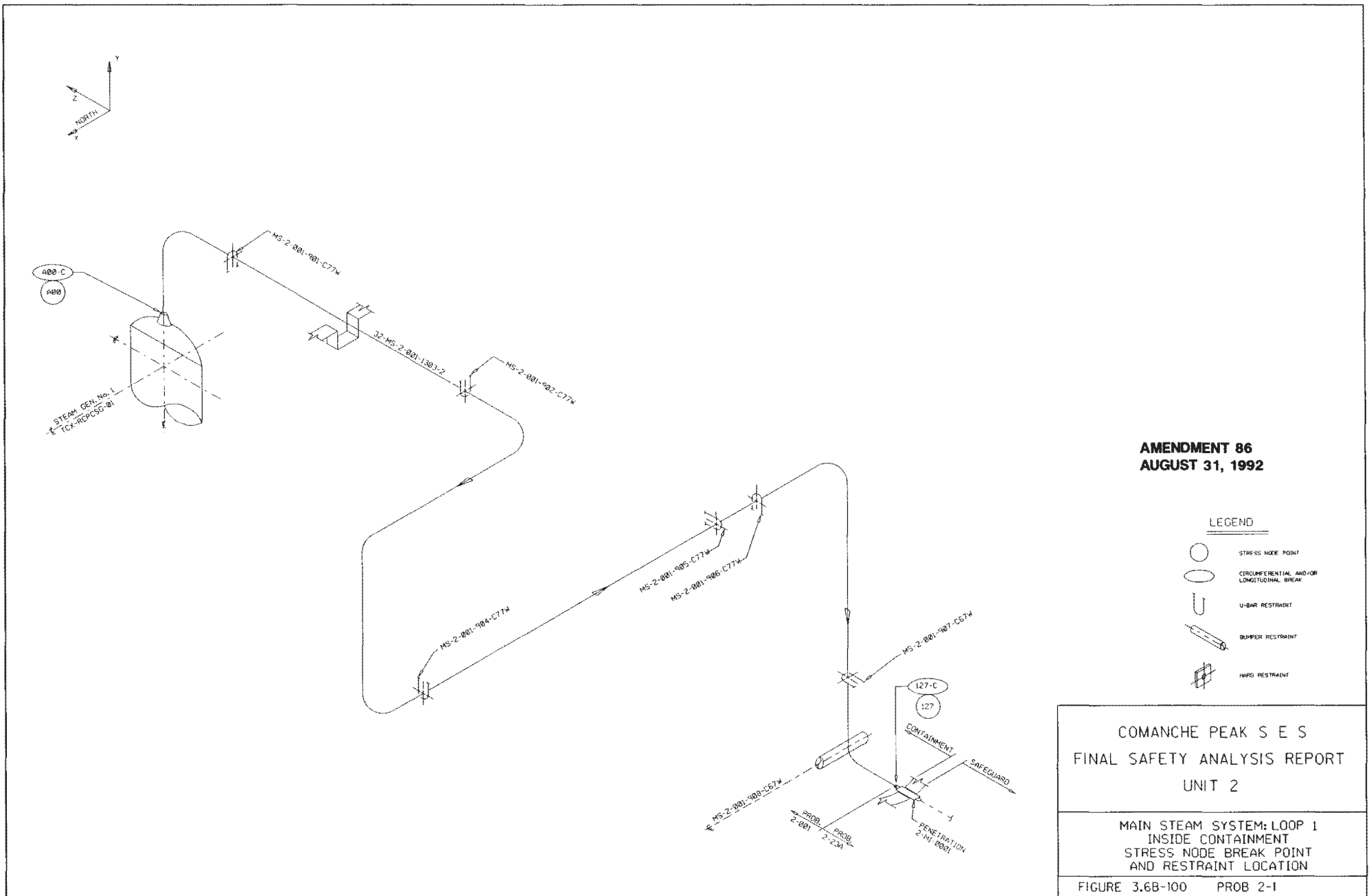
**Figure 3.6B-97 thru 3.6B-99
(NOT USED)**

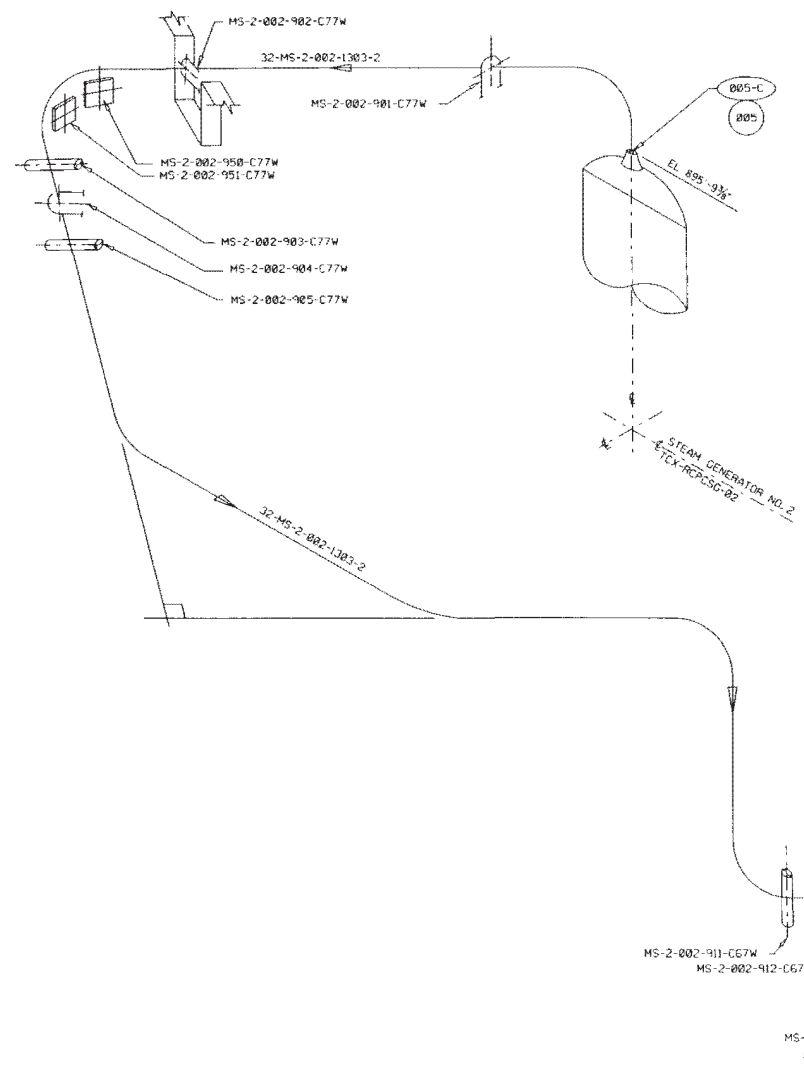
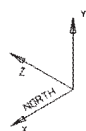
CPSES / FSAR

**Figure 3.6B-97 thru 3.6B-99
(NOT USED)**

CPSES / FSAR






**Figure 3.6B-97 thru 3.6B-99
(NOT USED)**



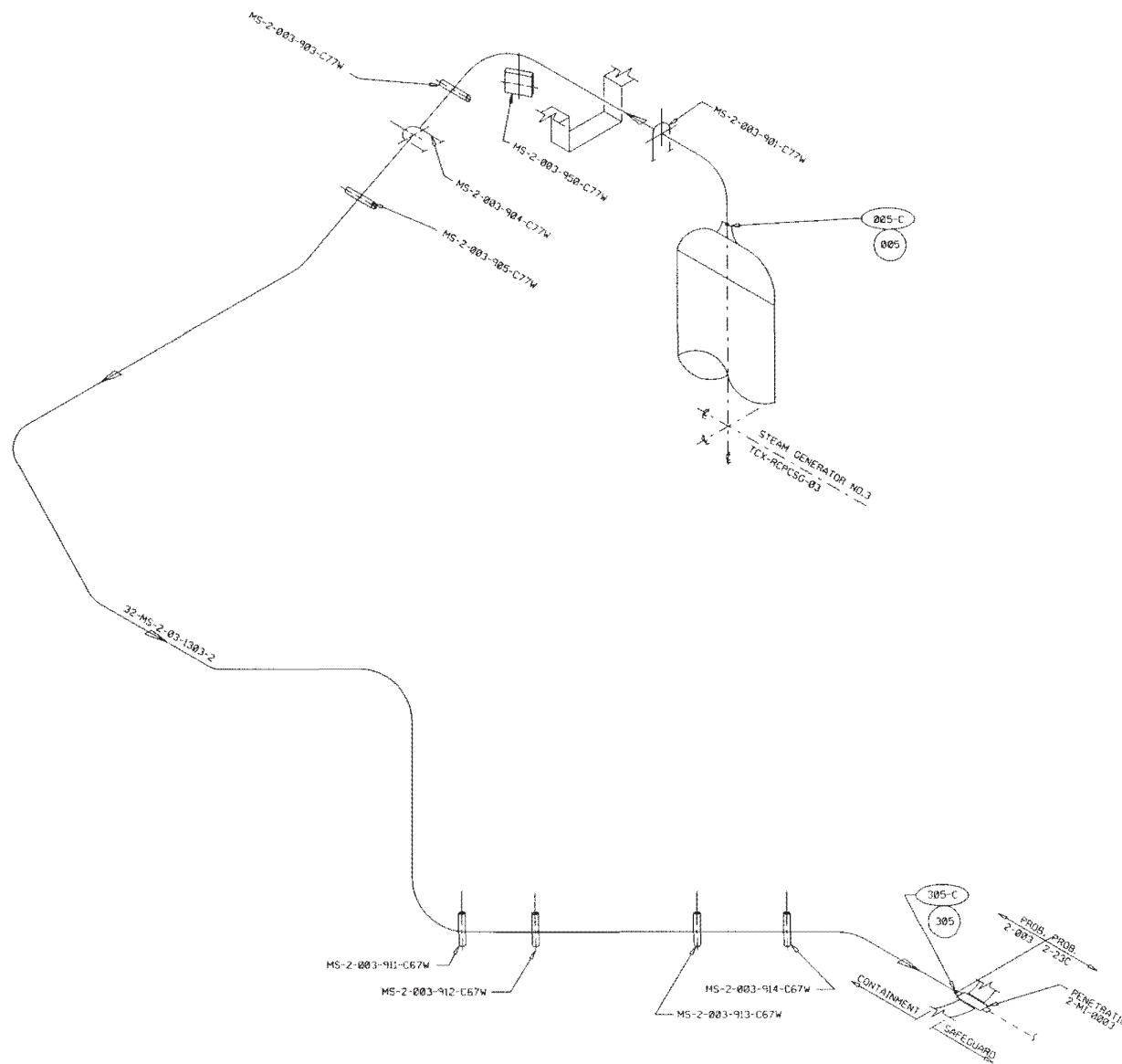
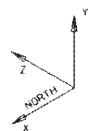


**AMENDMENT 86
AUGUST 31, 1992**

LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
-  U-BAR RESTRAINT
-  BRACKET RESTRAINT
-  HARD RESTRAINT

COMANCHE PEAK S E S	
FINAL SAFETY ANALYSIS REPORT	
UNIT 2	
MAIN STEAM SYSTEM: LOOP 2	
INSIDE CONTAINMENT	
STRESS NODE BREAK POINT	
AND RESTRAINT LOCATION	
FIGURE 3.6B-101	PROB 2-2

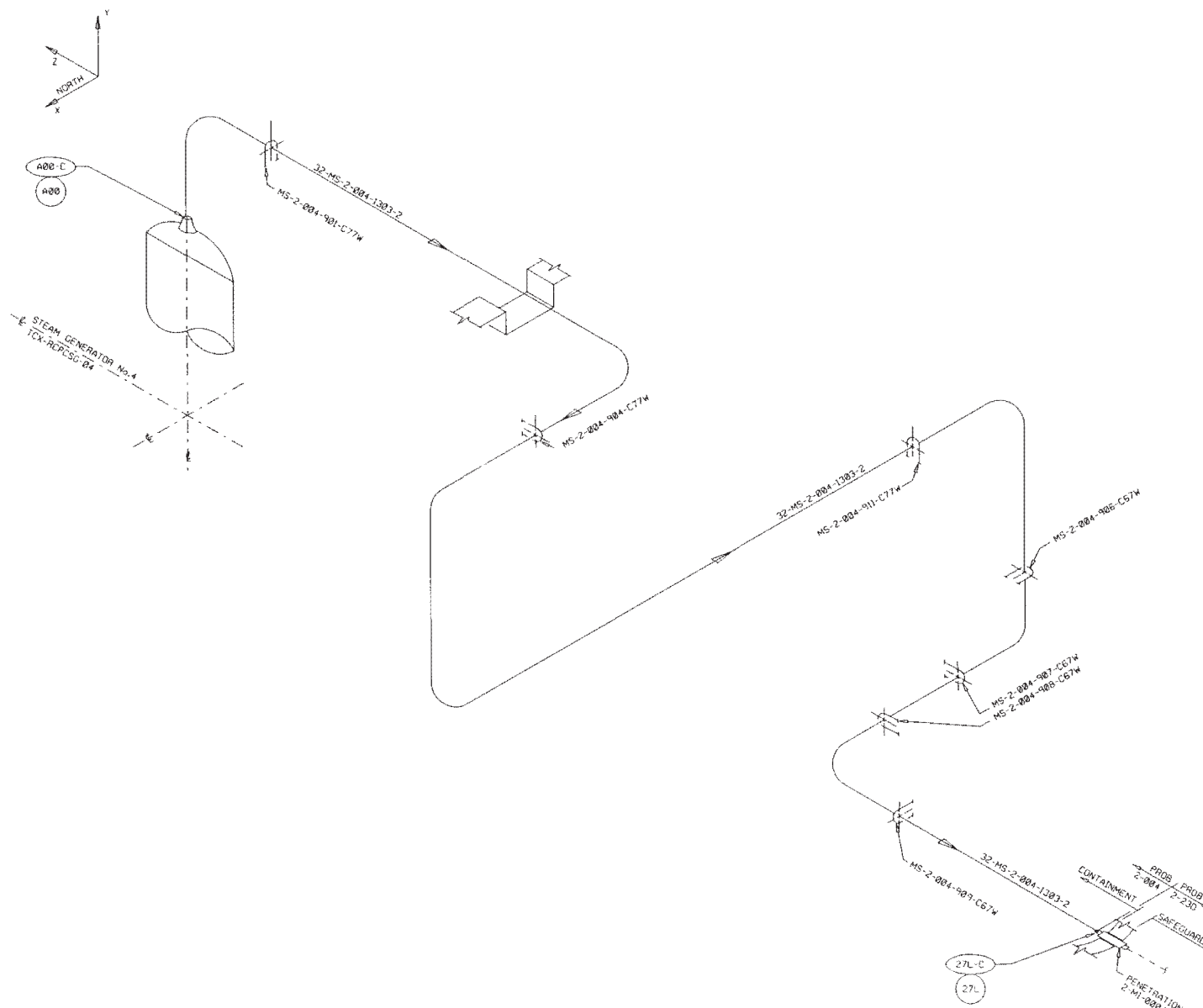


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COMANCHE PEAK S E S
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UNIT 2

MAIN STEAM SYSTEM: LOOP 3
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-102 PROB 2-3

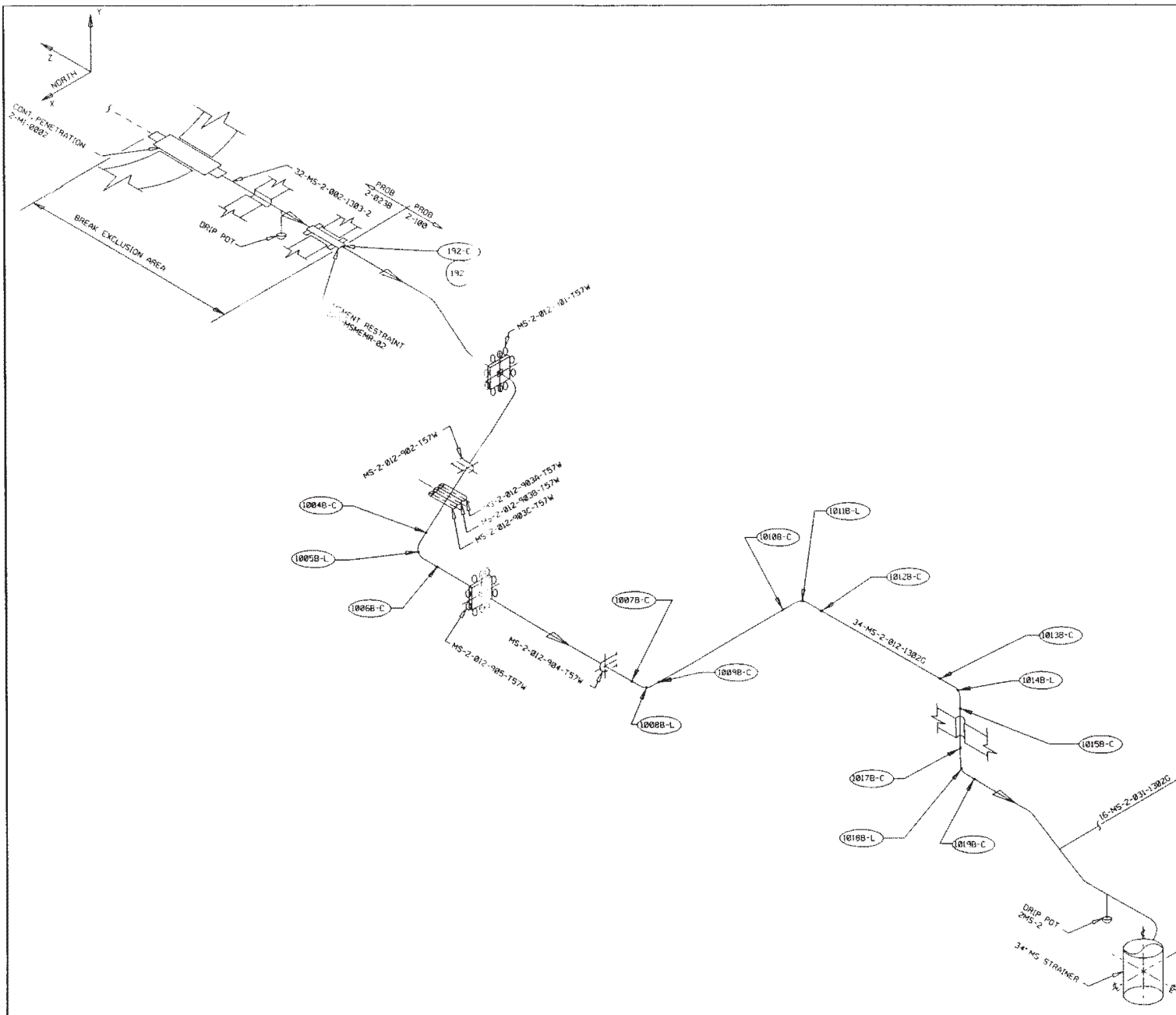


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UNIT 2






MAIN STEAM SYSTEM: LOOP 4
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-103 PROB 2-4



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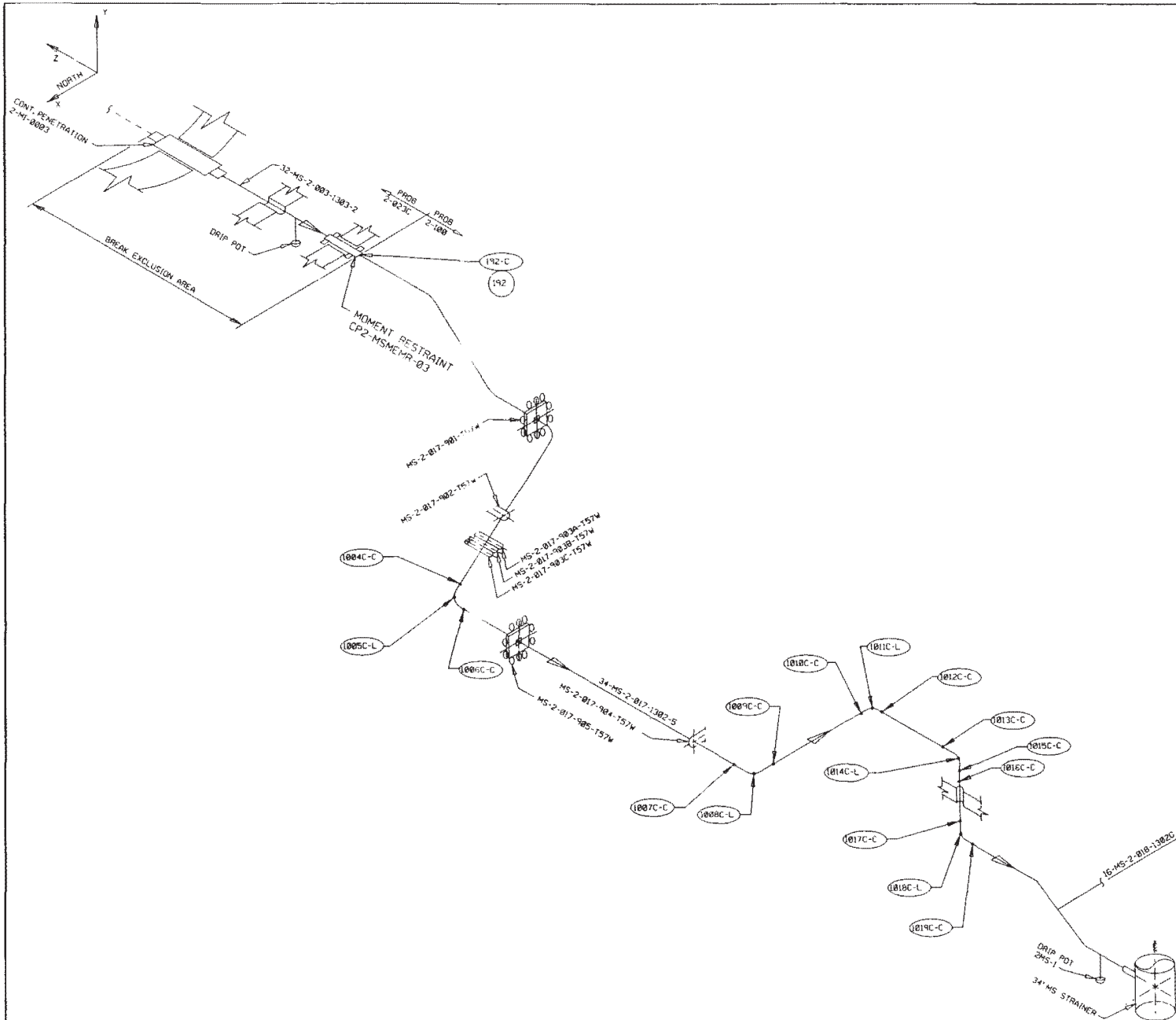
LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
-  U-BAR RESTRAINT
-  BUMPER RESTRAINT
-  SPECIAL BUMPER RESTRAINT

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FINAL SAFETY ANALYSIS REPORT
UNIT 2






MAIN STEAM SYSTEM: LOOP 2
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-105 PROB 2-100



**AMENDMENT 86
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LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
-  U-BAR RESTRAINT
-  BUMPER RESTRAINT
-  SPECIAL BUMPER RESTRAINT

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

MAIN STEAM SYSTEM: LOOP 3
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-106 PROB 2-100

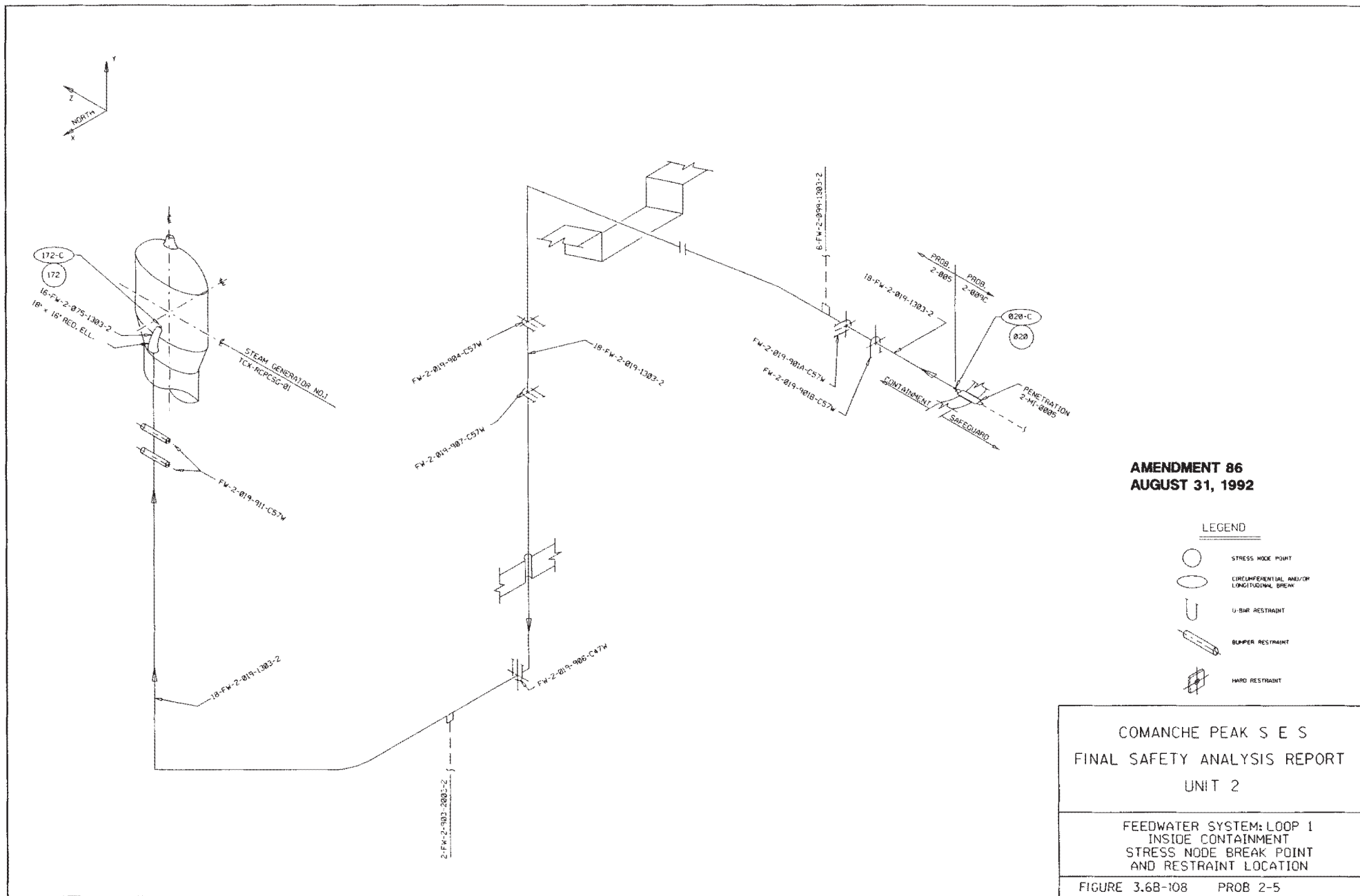
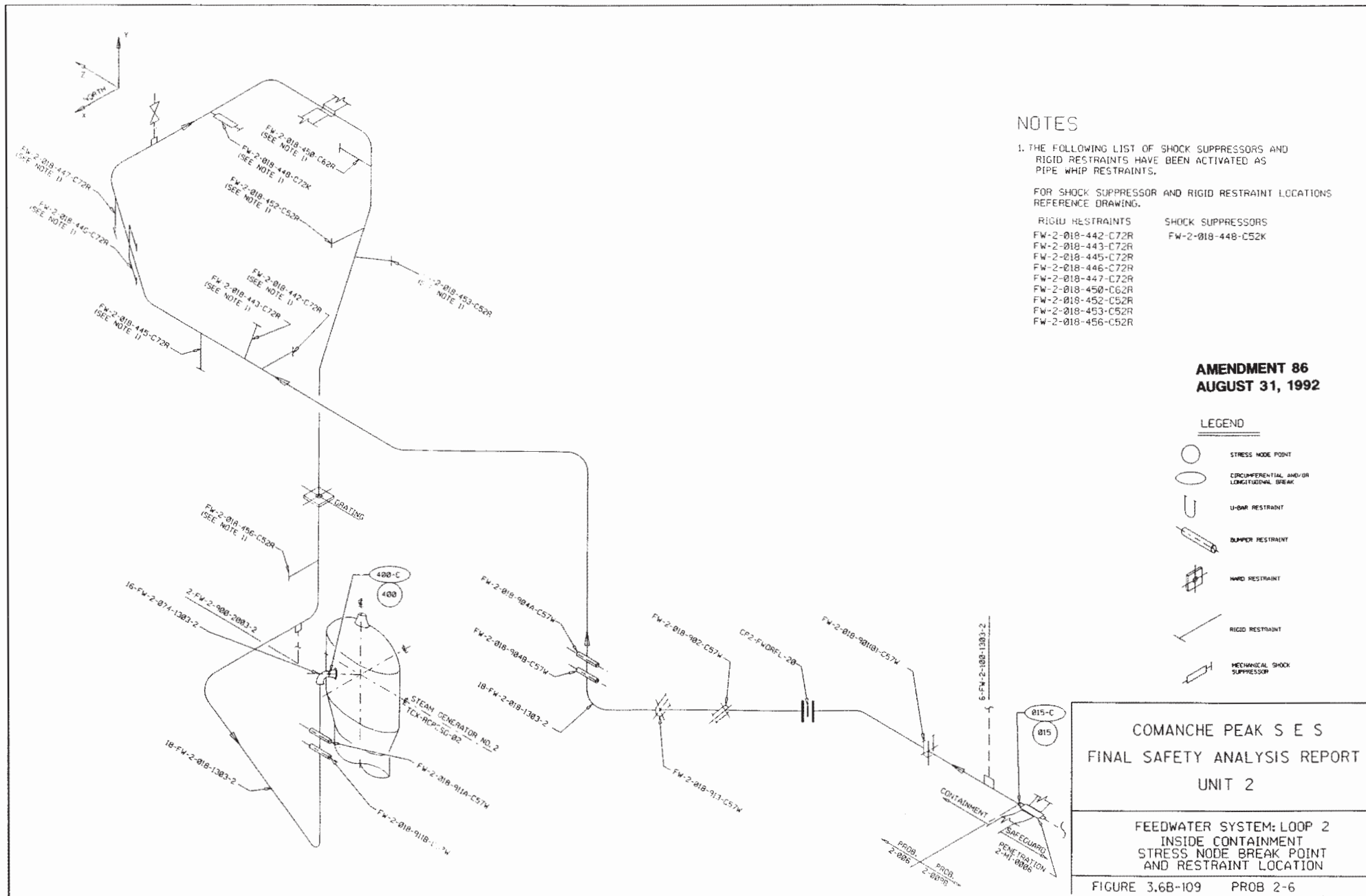
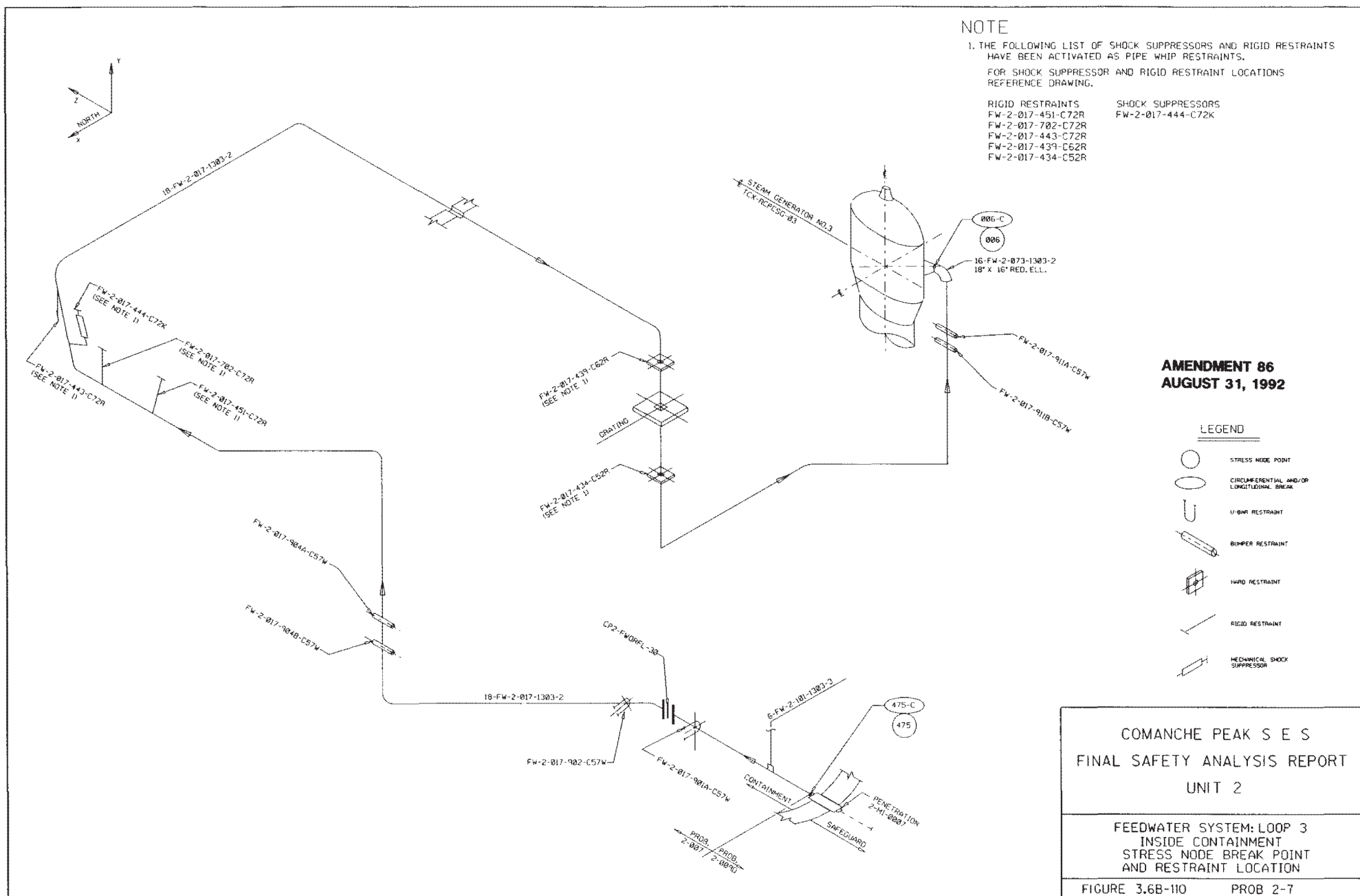





FIG108000.BIT



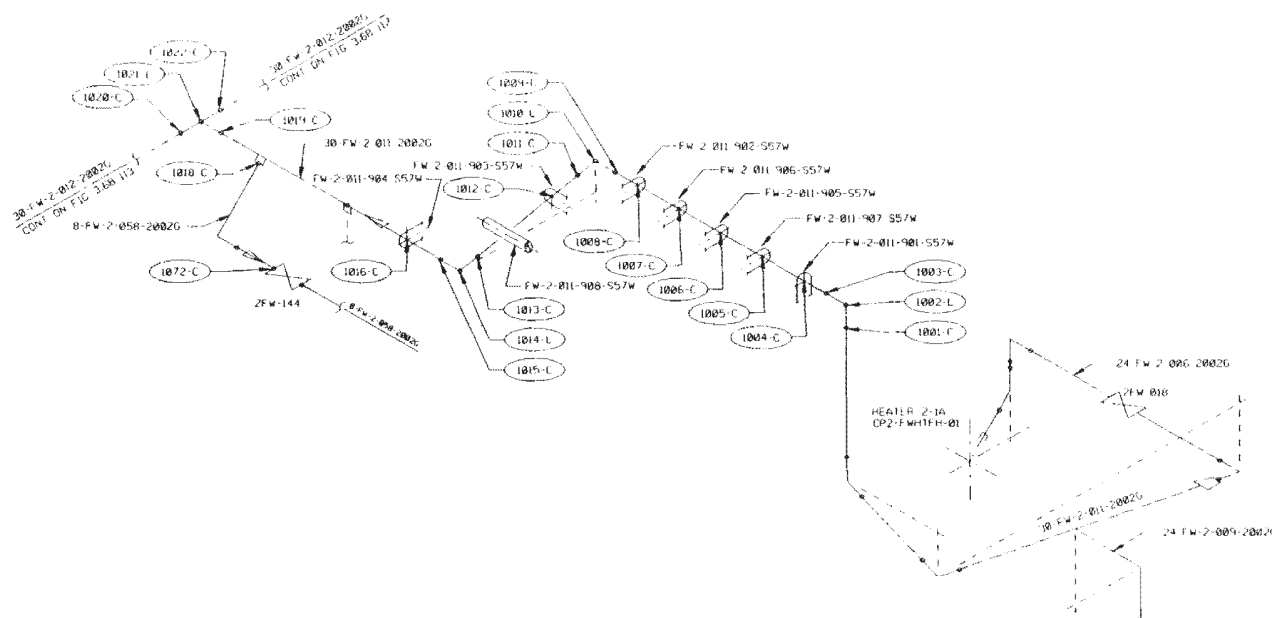




	STRESS NODE POINT
	CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
	BUMPER RESTRAINT

FEEDWATER SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIG113000.B1 I



COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

FEEDWATER SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

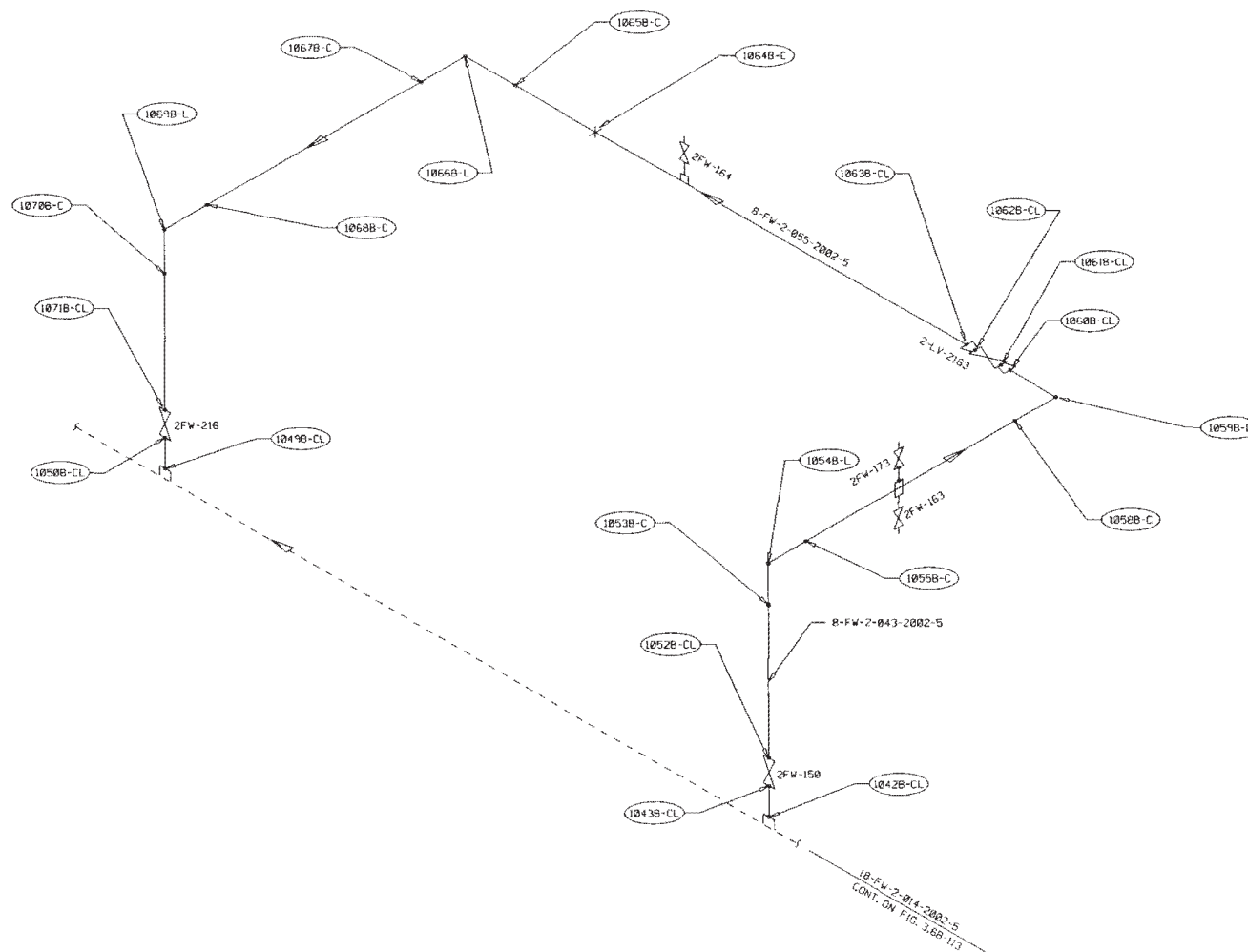
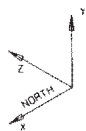
FIGURE 3.6B-114 PROB 2-104

AMENDMENT 87
DECEMBER 18, 1992



FEEDWATER SYSTEM: FW BY-PASS
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

AMENDMENT 87
DECEMBER 18, 1992



AMENDMENT 86
AUGUST 31, 1992

LEGEND

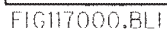
- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
- U-BAR RESTRAINT
- BUMPER RESTRAINT
- HARD RESTRAINT

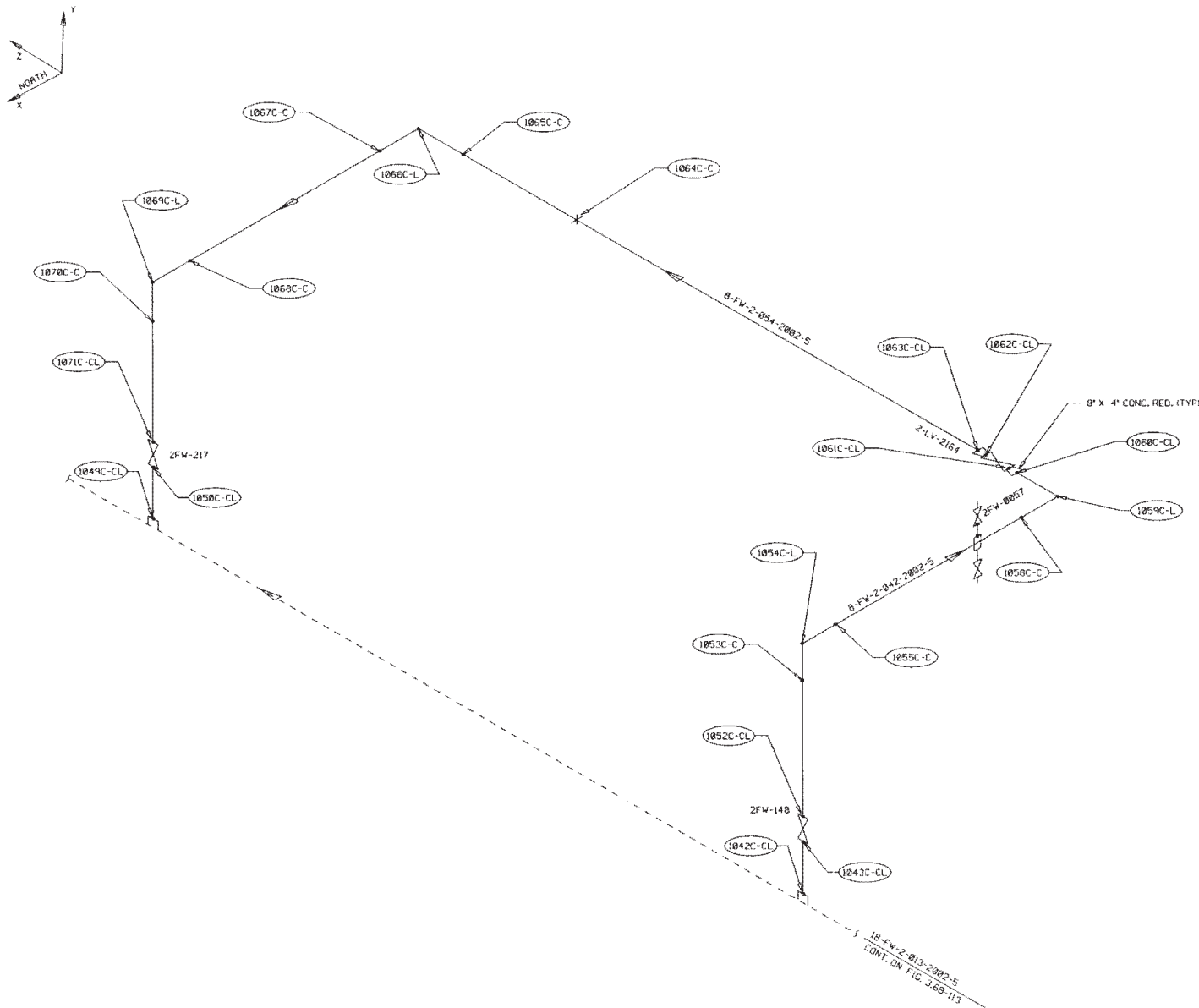
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

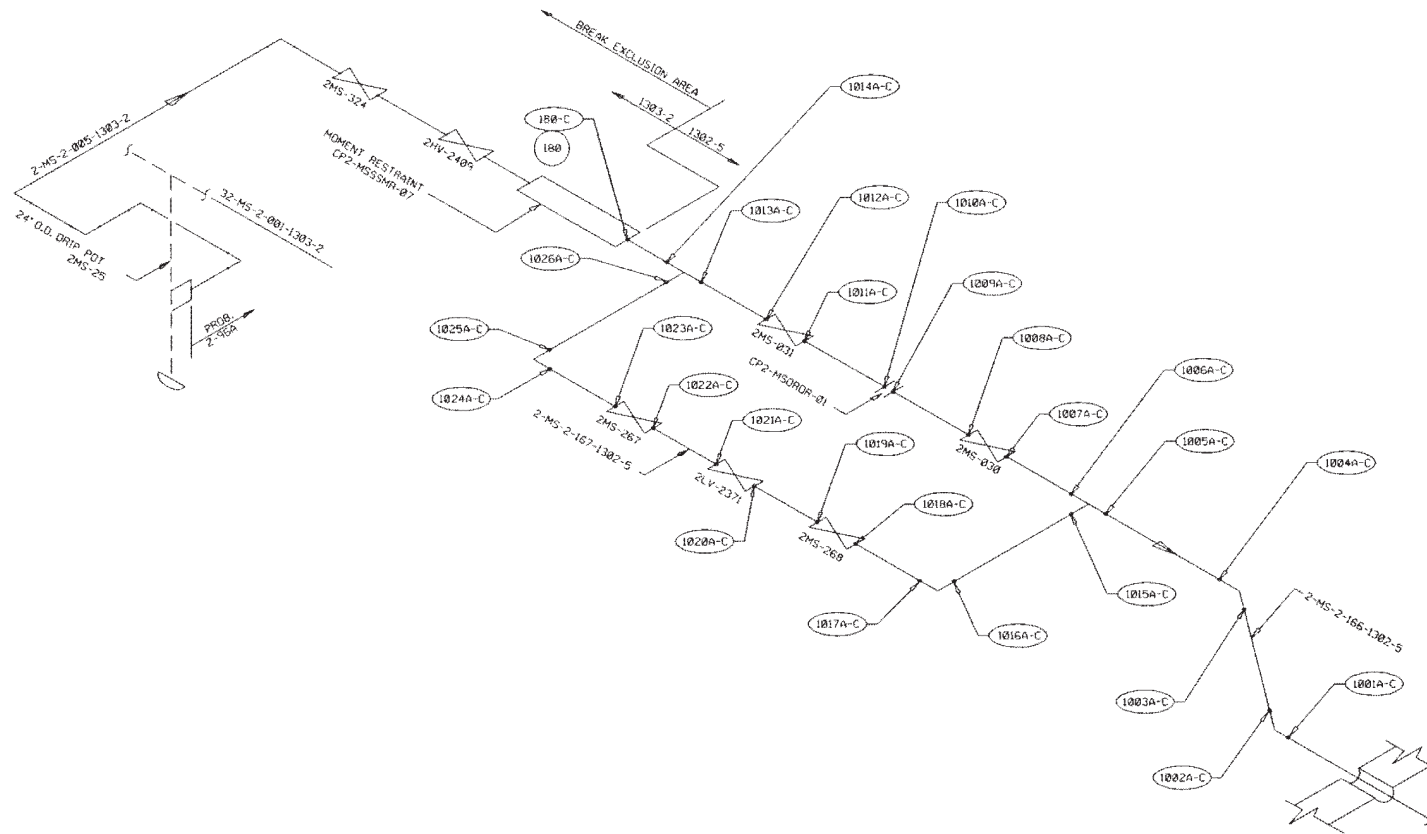
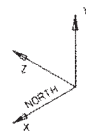
FEEDWATER SYSTEM: F.W. BY-PASS
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-116

PROB 2-104









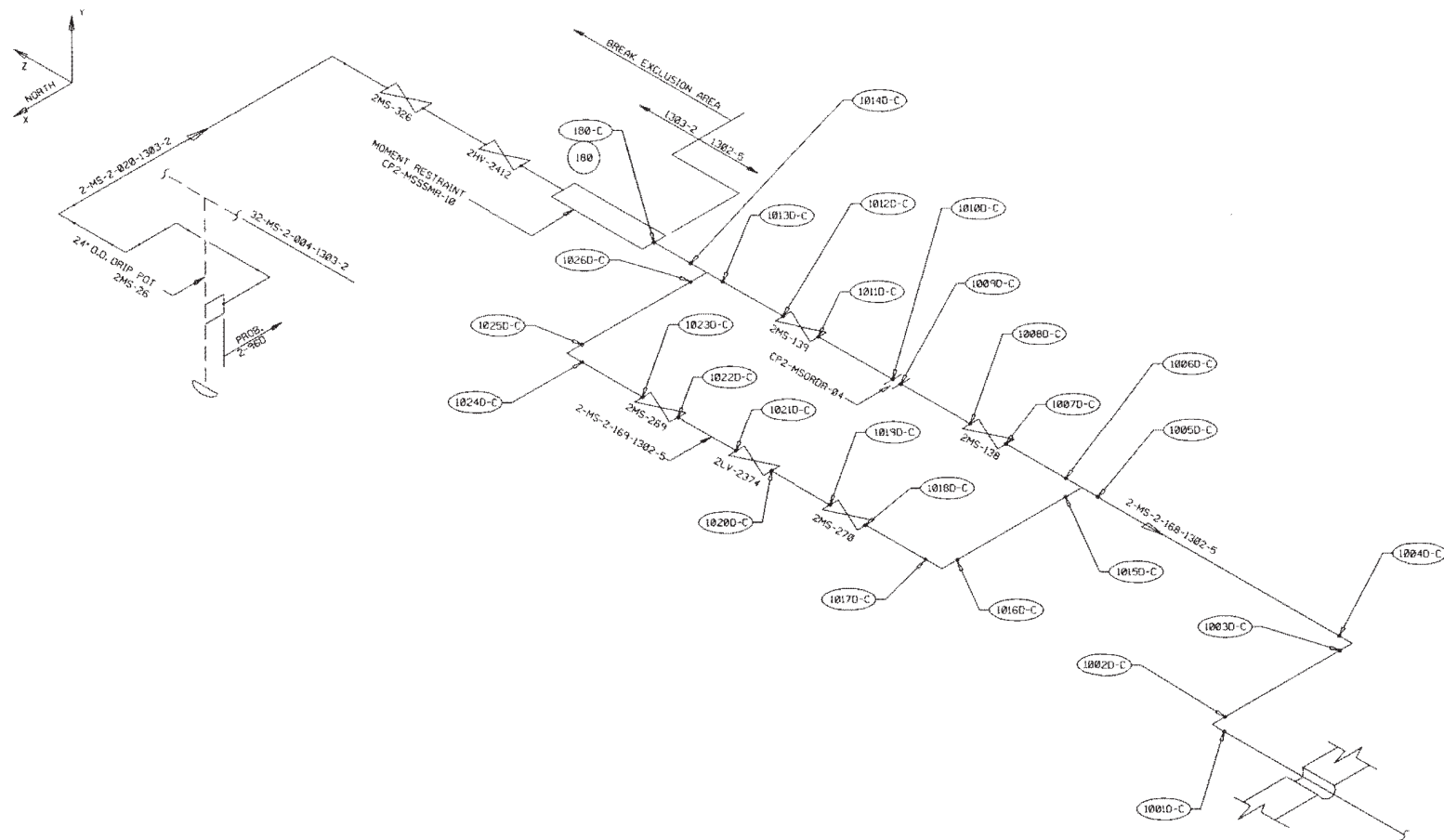
**AMENDMENT 86
AUGUST 31, 1992**

LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

<p>COMANCHE PEAK S E S FINAL SAFETY ANALYSIS REPORT UNIT 2</p>
<p>MAIN STEAM SYSTEM: M.S. BLOWDOWN OUTSIDE CONTAINMENT STRESS NODE BREAK POINT AND RESTRAINT LOCATION</p>
<p>FIGURE 3.6B-119 PROB 2-96A</p>

FIG121000.BLI



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LEGEND

- STRESS NODE POINT
- LONGITUDINAL BREAK
CIRCUMFERENTIAL AND/OR





COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

MAIN STEAM SYSTEM: M.S. BLOWDOWN
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-122 PROB 2-96D

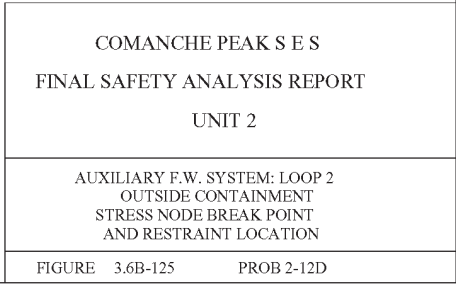
CPSES / FSAR

**Figure 3.6B-123
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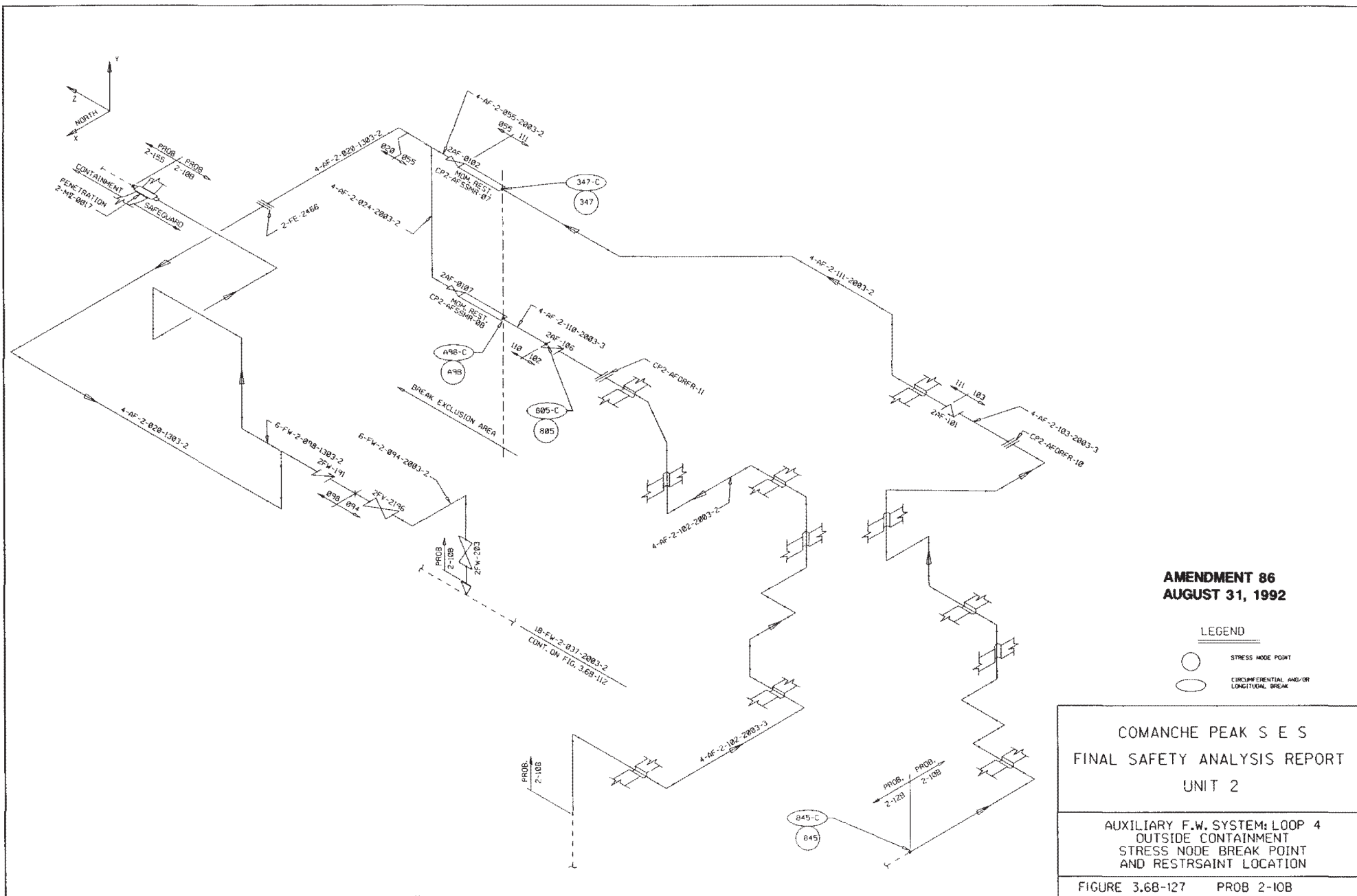
	STRESS NODE POINT
	CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
	U-BAR RESTRAINT
	HARD RESTRAINT

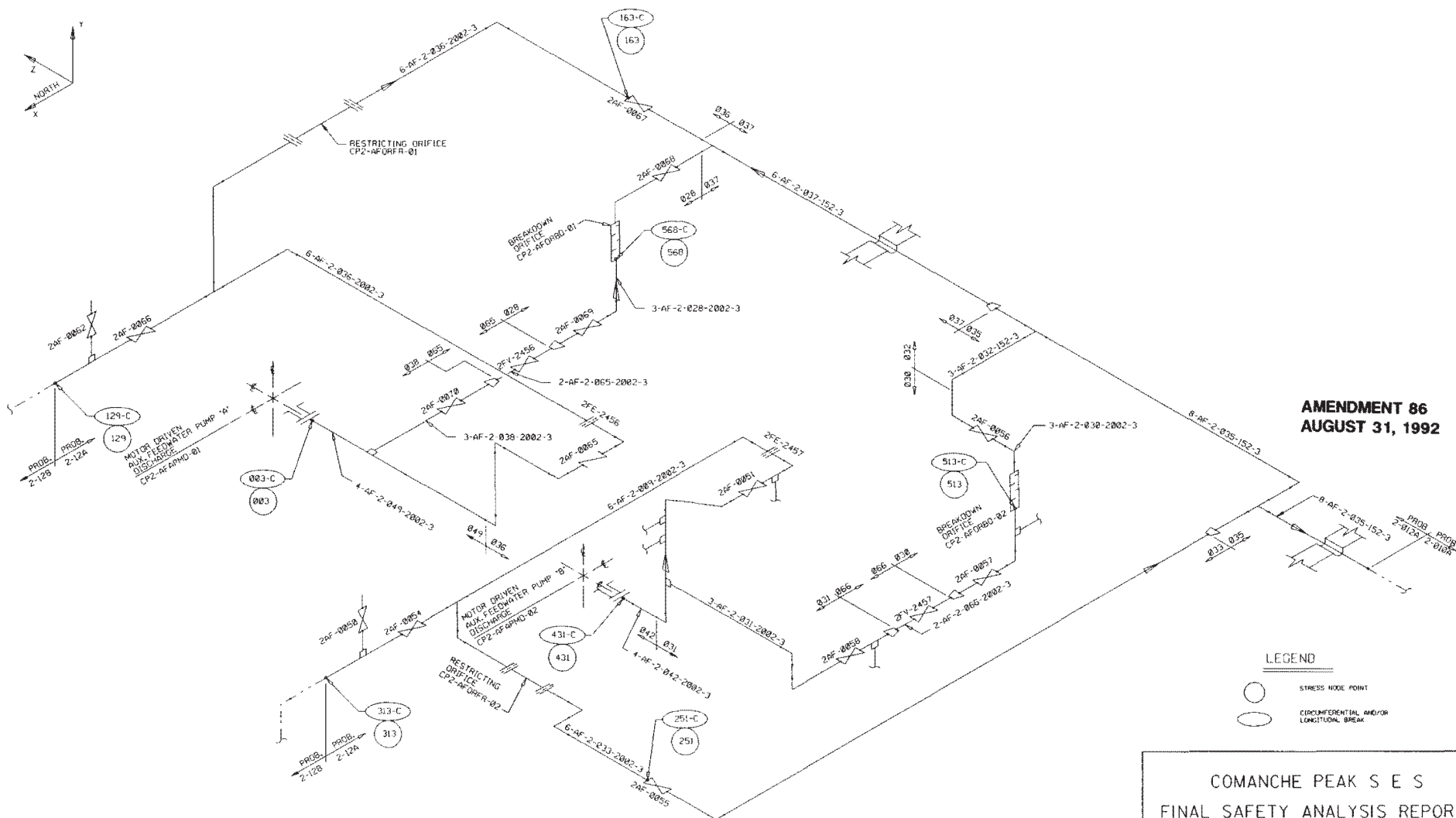
AUXILIARY F.W. SYSTEM: LOOP 1
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT

ve0002fr.dgn



AUXILIARY F.W. SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION





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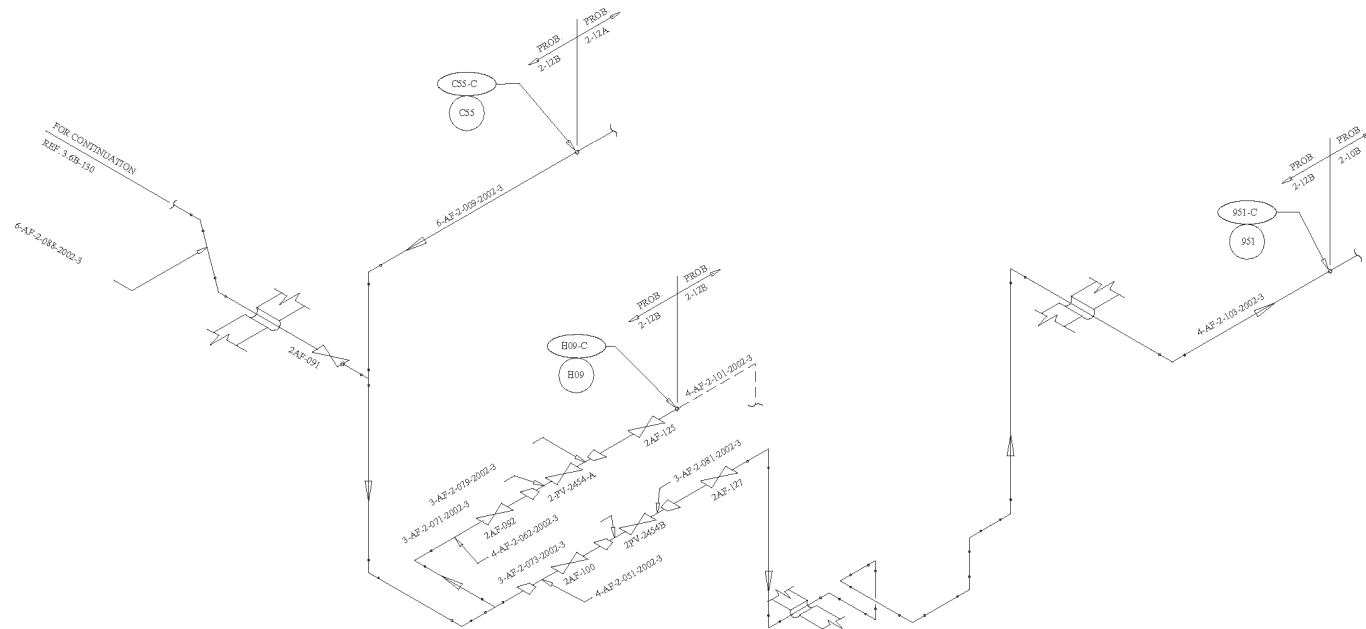
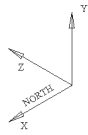
LEGEND

- STRESS NODE POINT
- /○ CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK



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FINAL SAFETY ANALYSIS REPORT
UNIT 2

AUXILIARY F.W. SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-128 PROB 2-12A

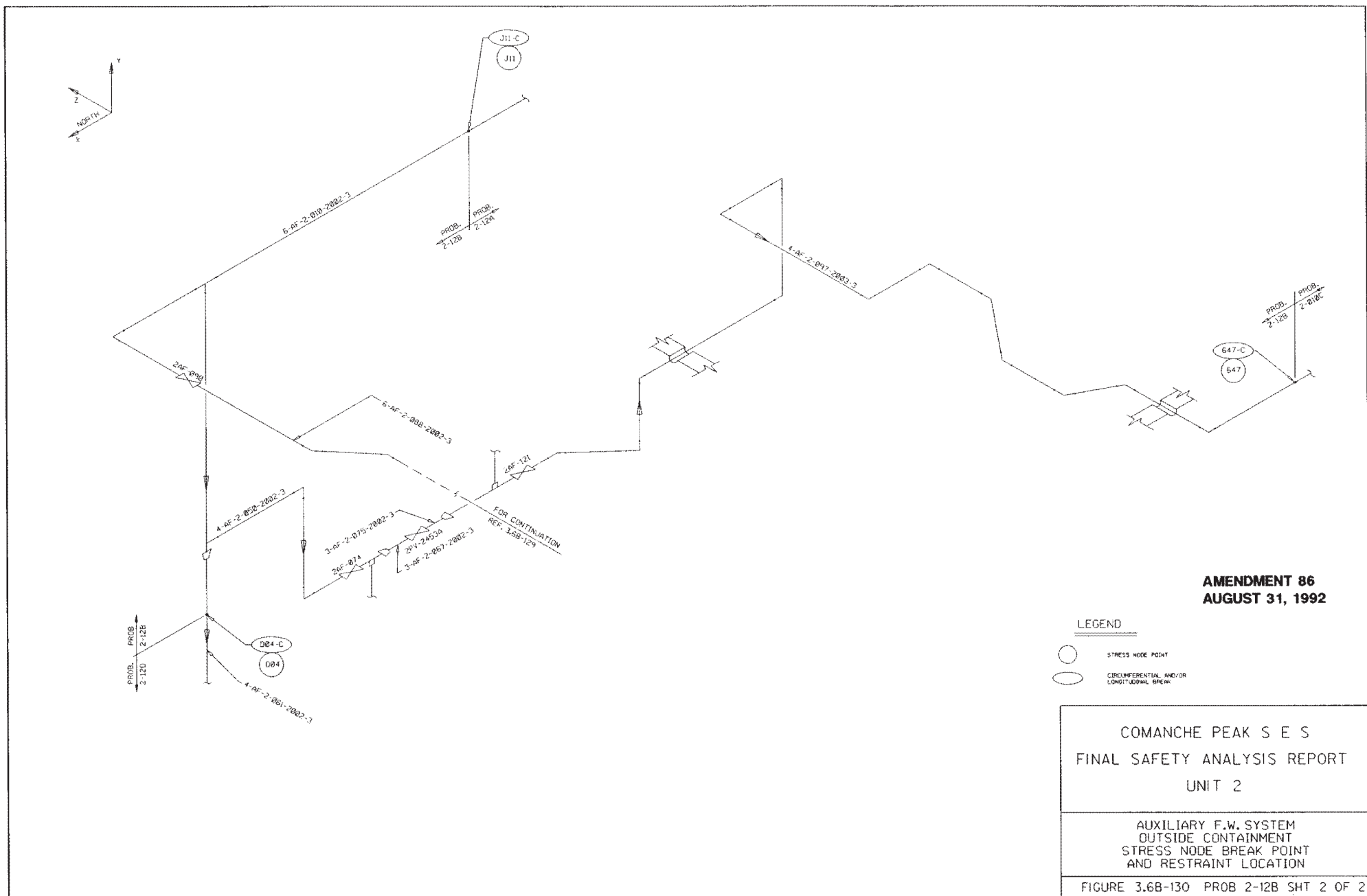


LEGEND

-  STRESS NODE/REPORT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

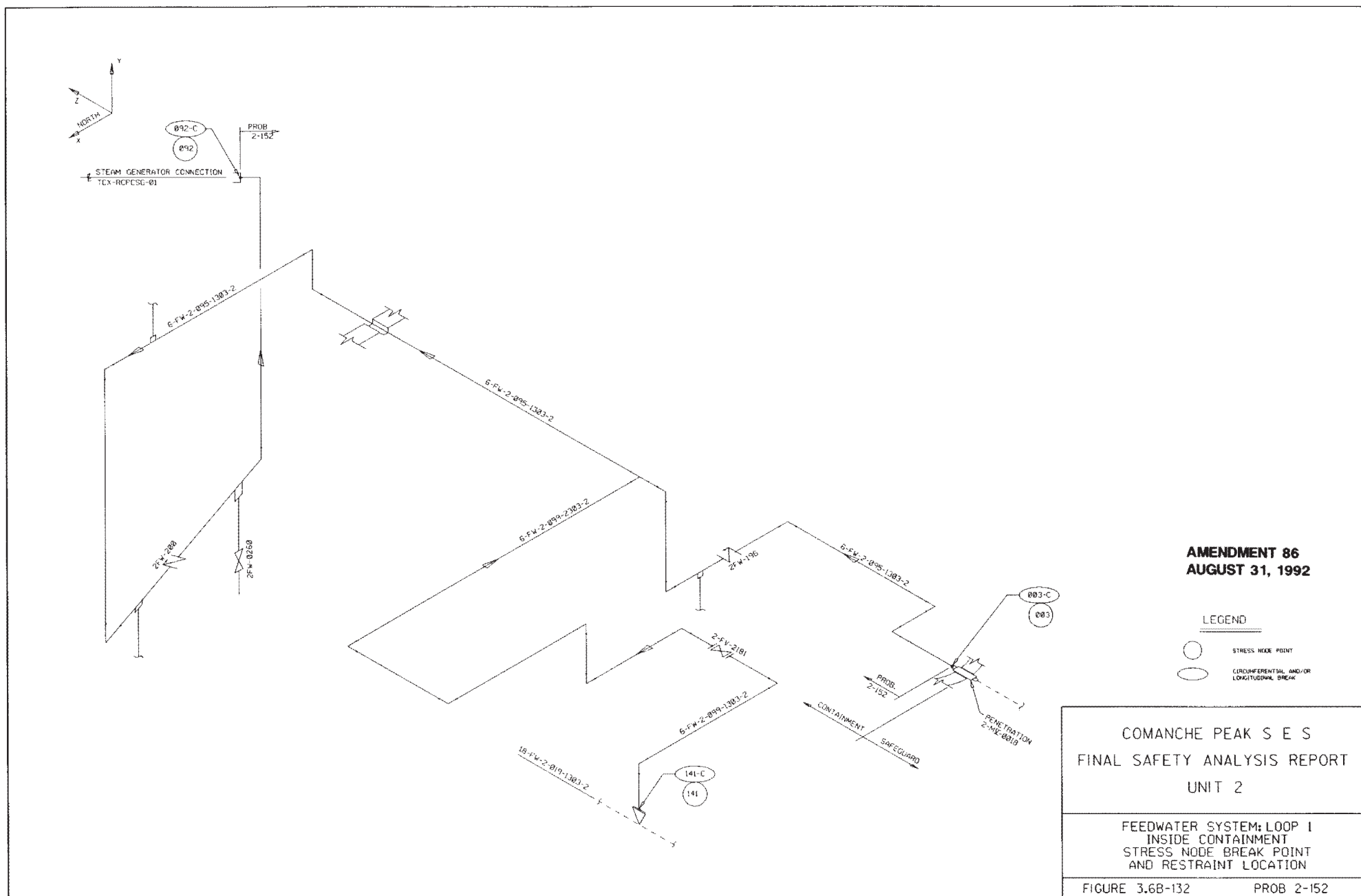
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

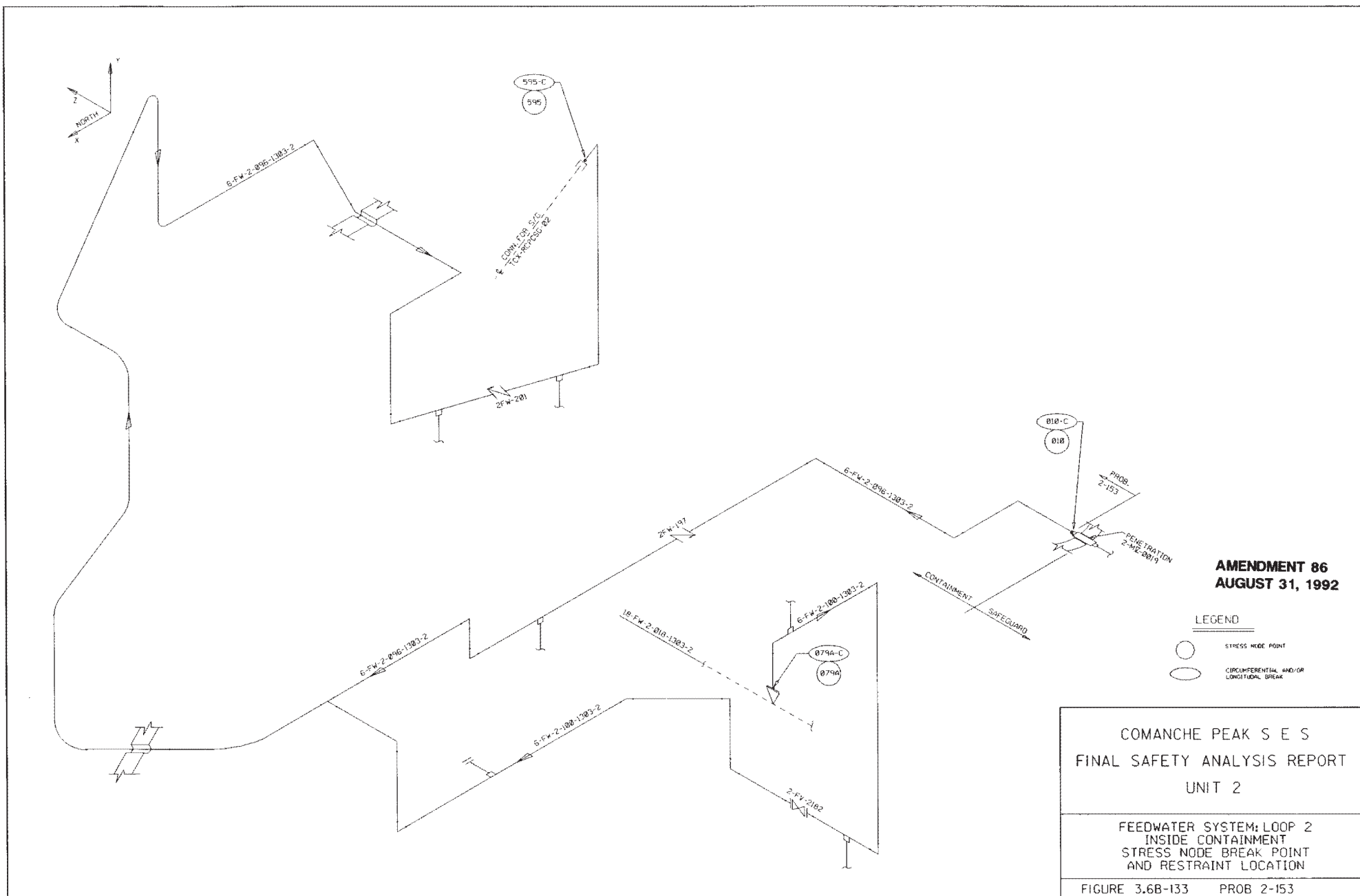
AUXILIARY F.W. SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

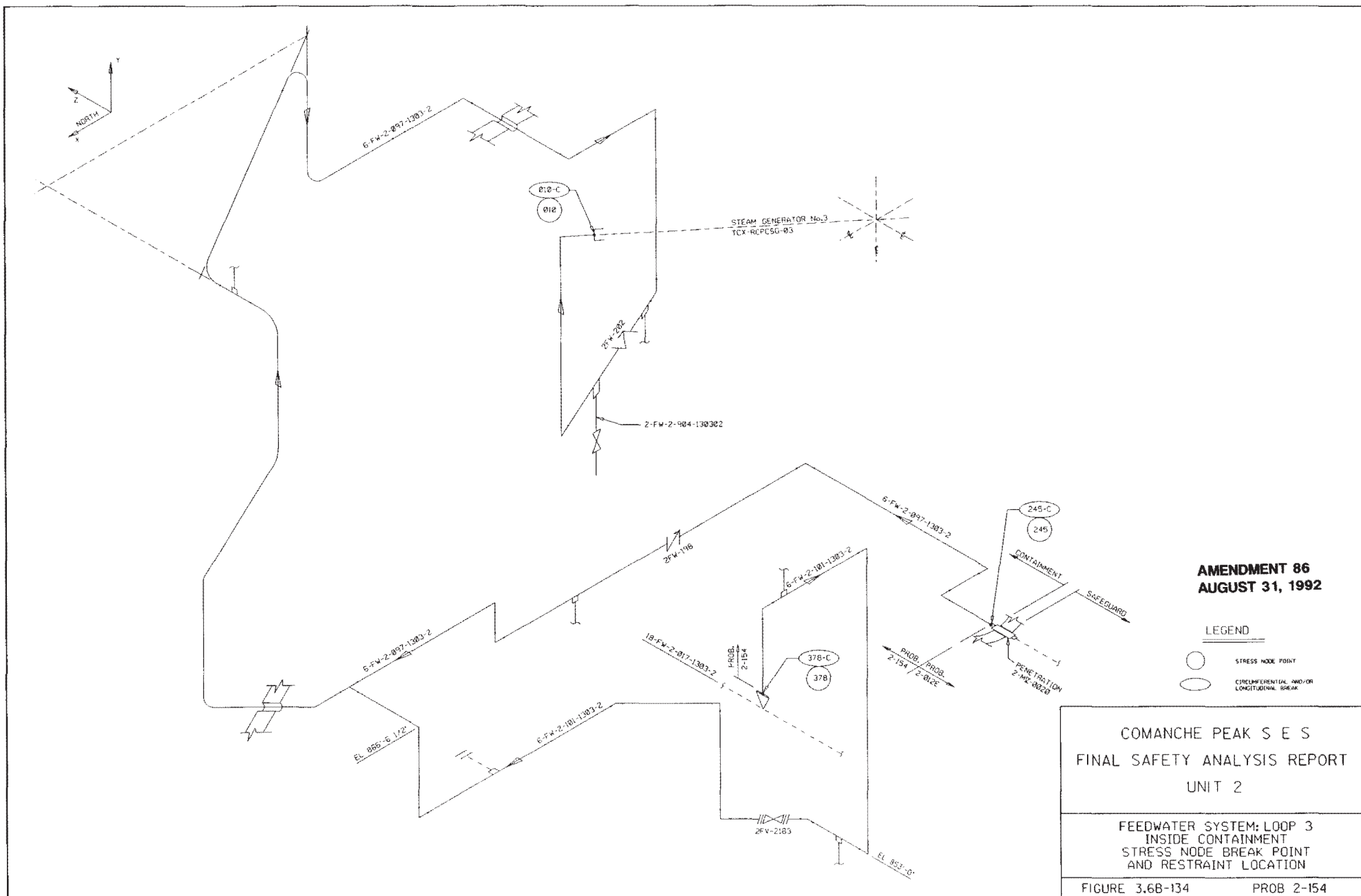


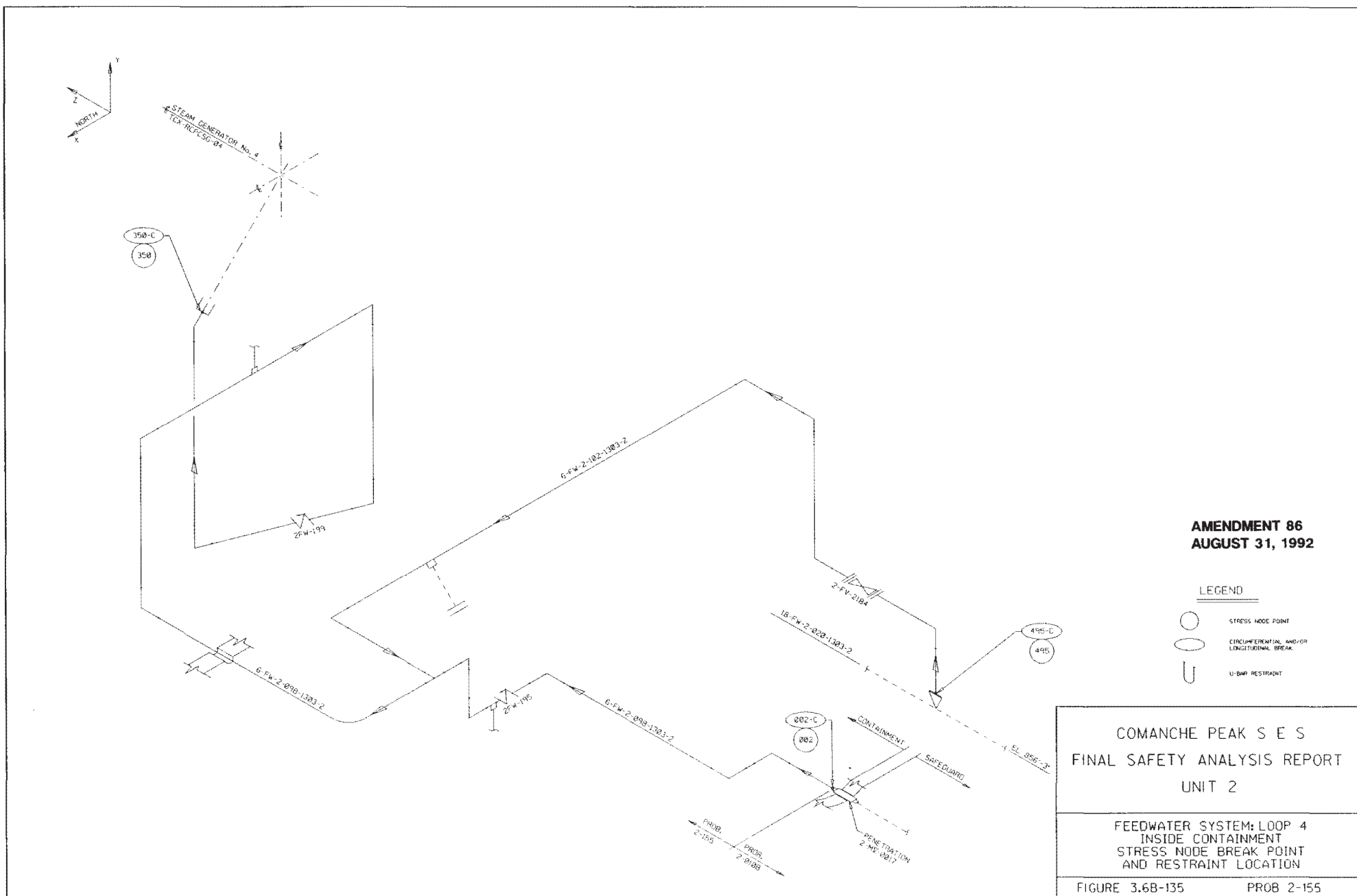
CPSES / FSAR

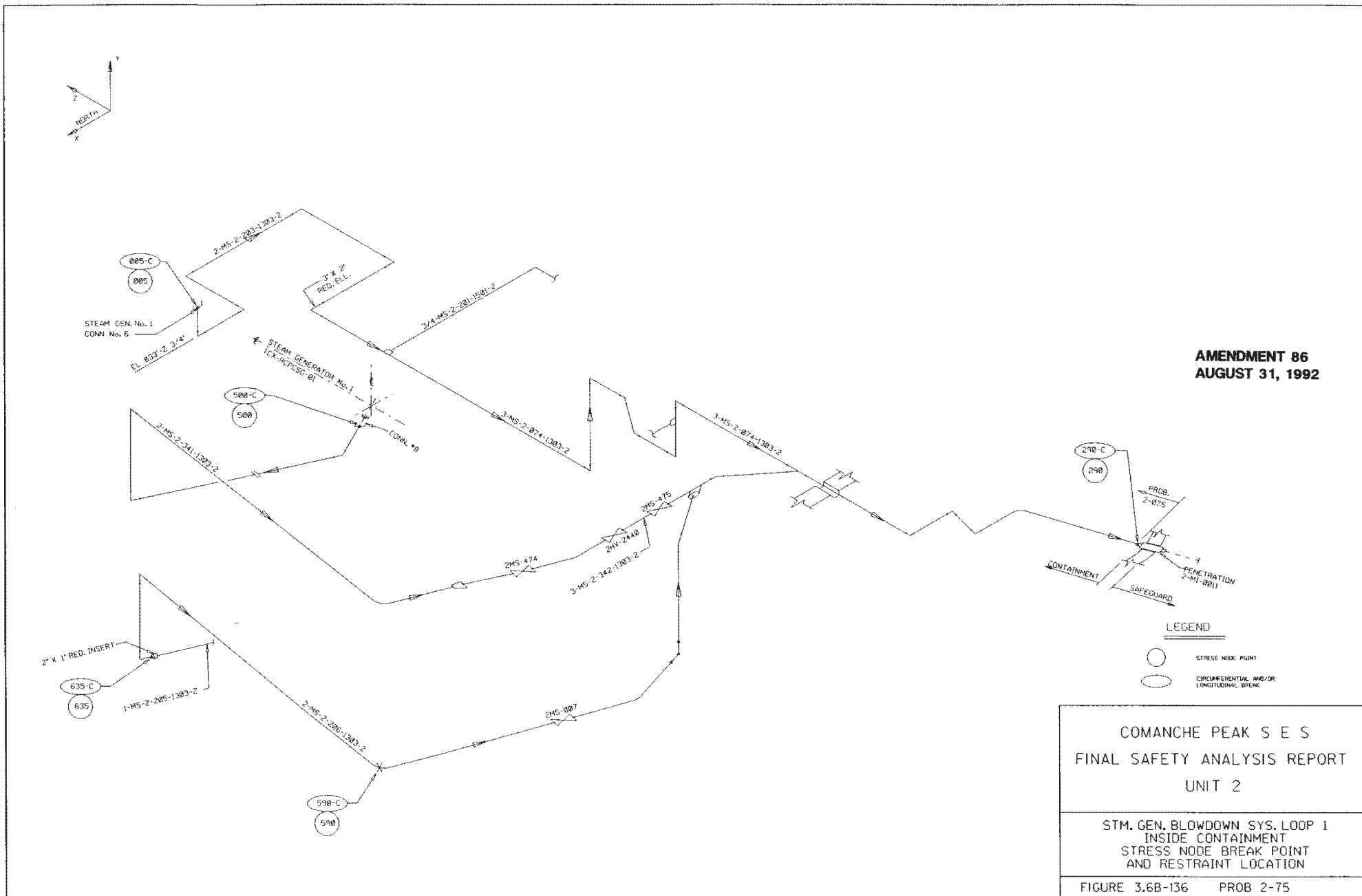
**Figure 3.6B-131
(NOT USED)**

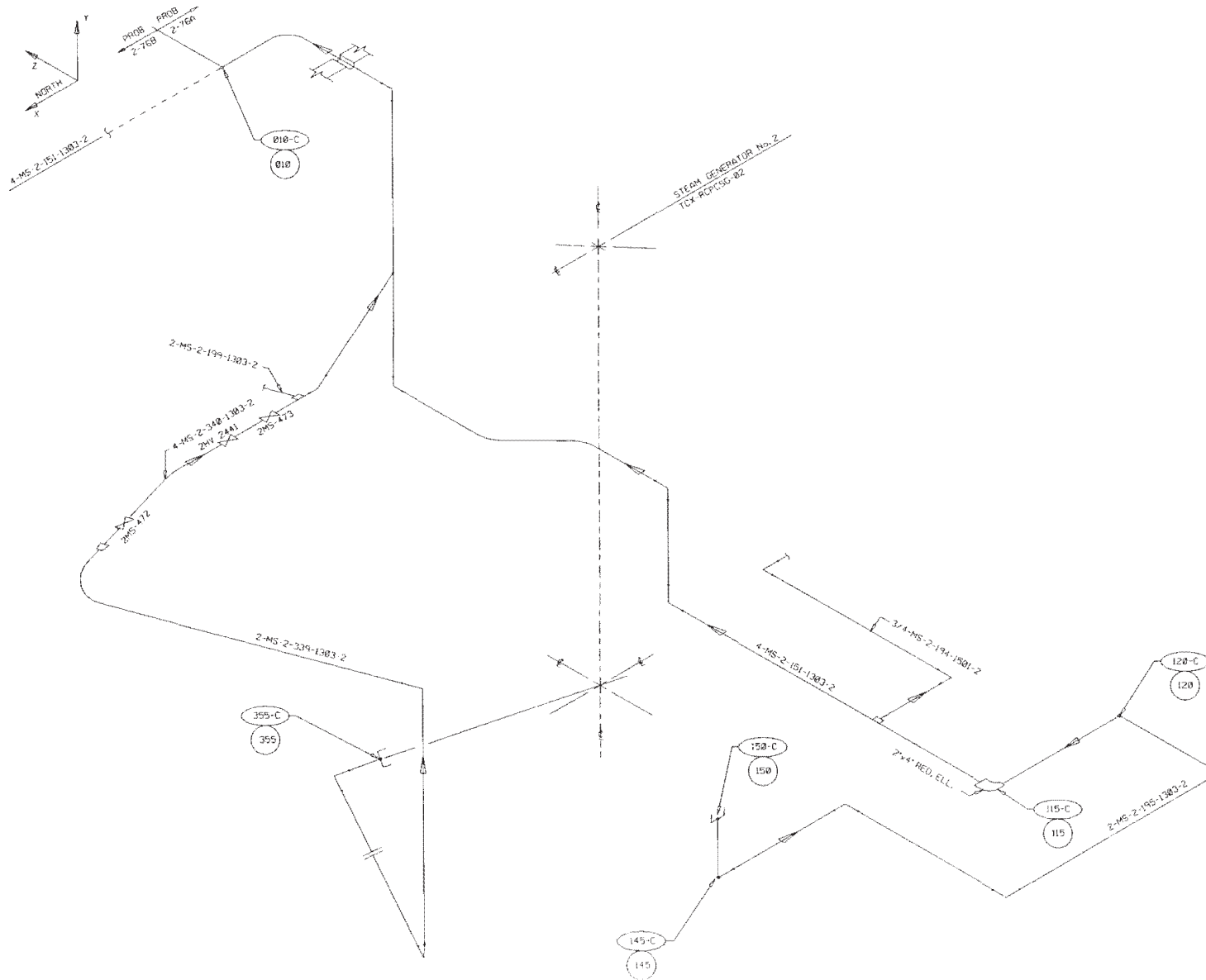














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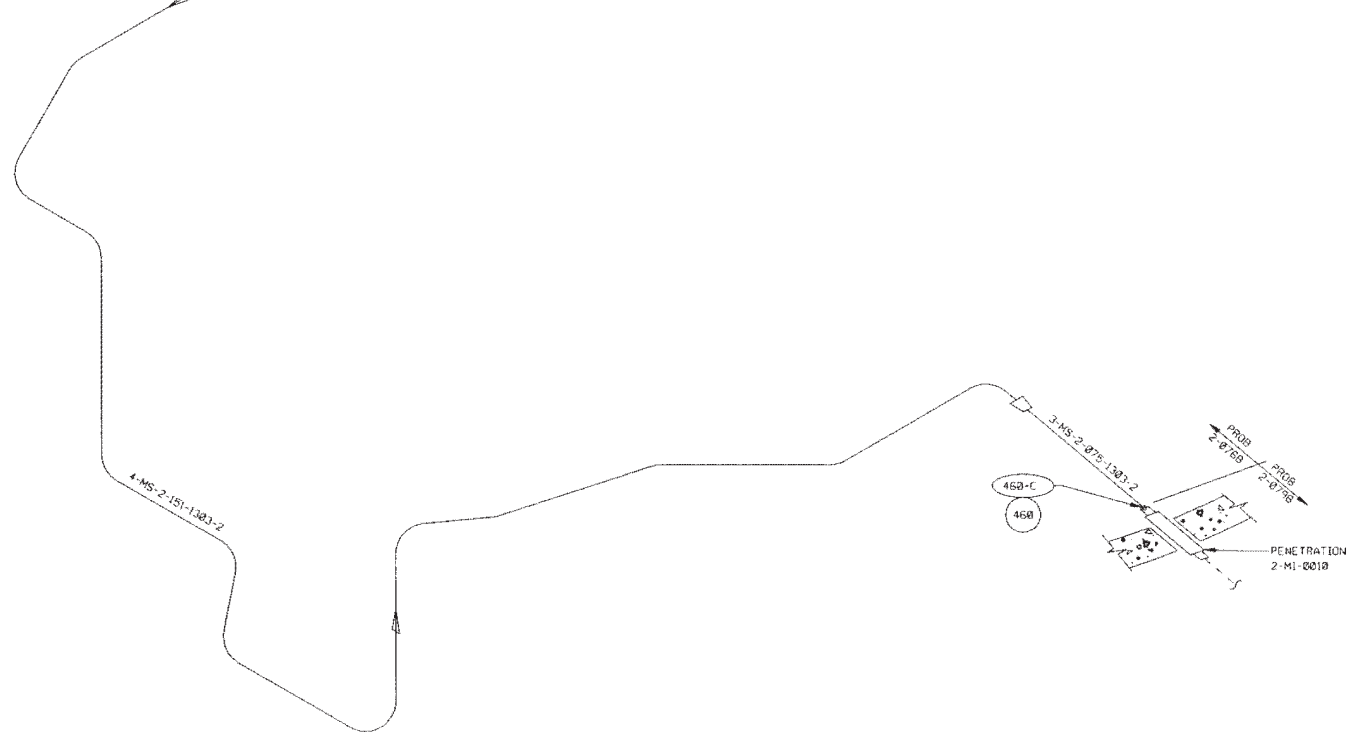
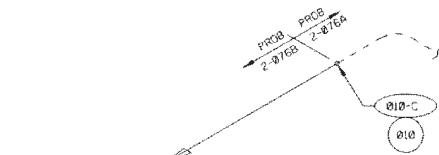
LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2



STM. GEN. BLOWDOWN SYS. LOOP 2
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-137 PROB 2-76A



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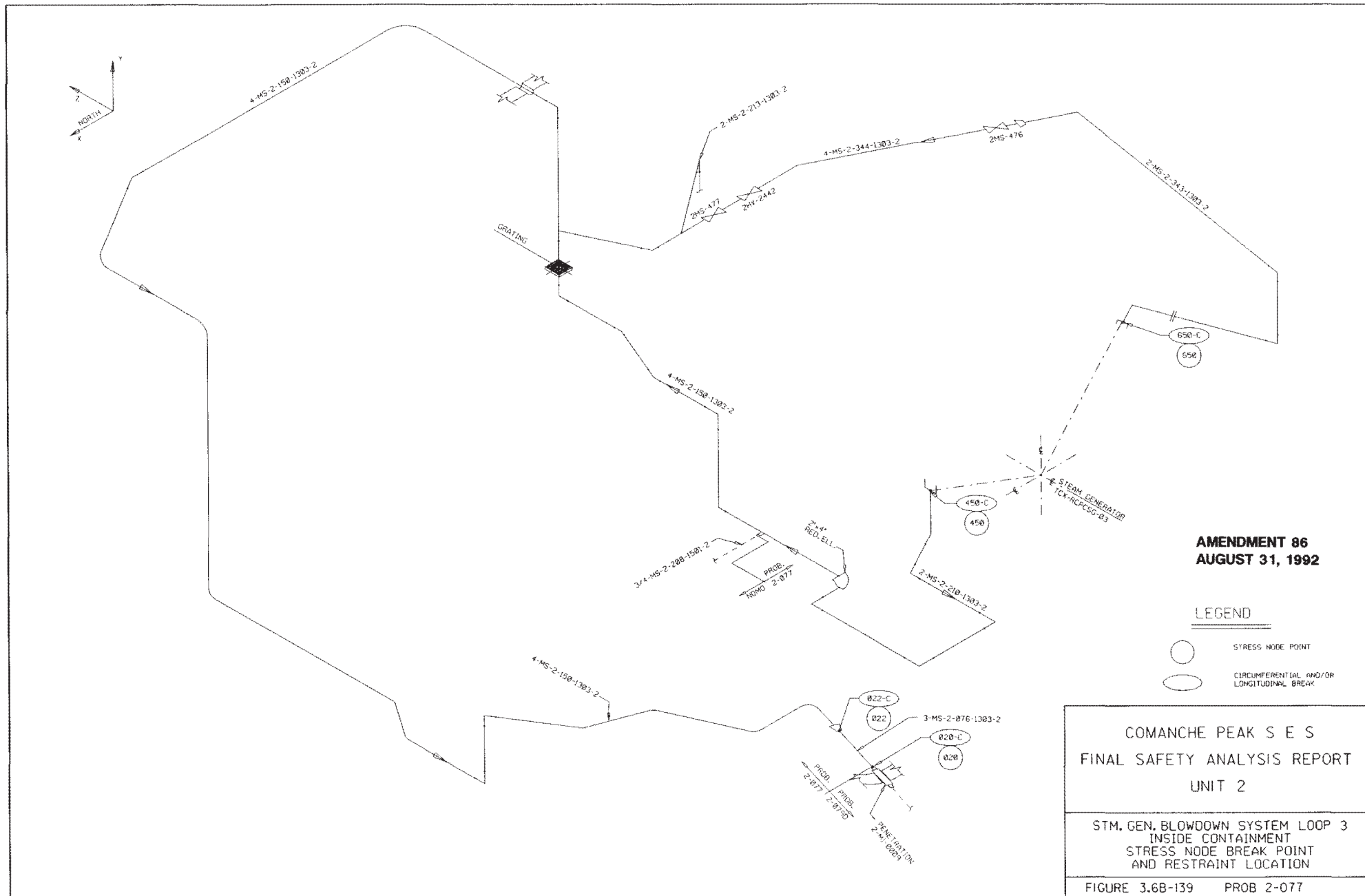
LEGEND

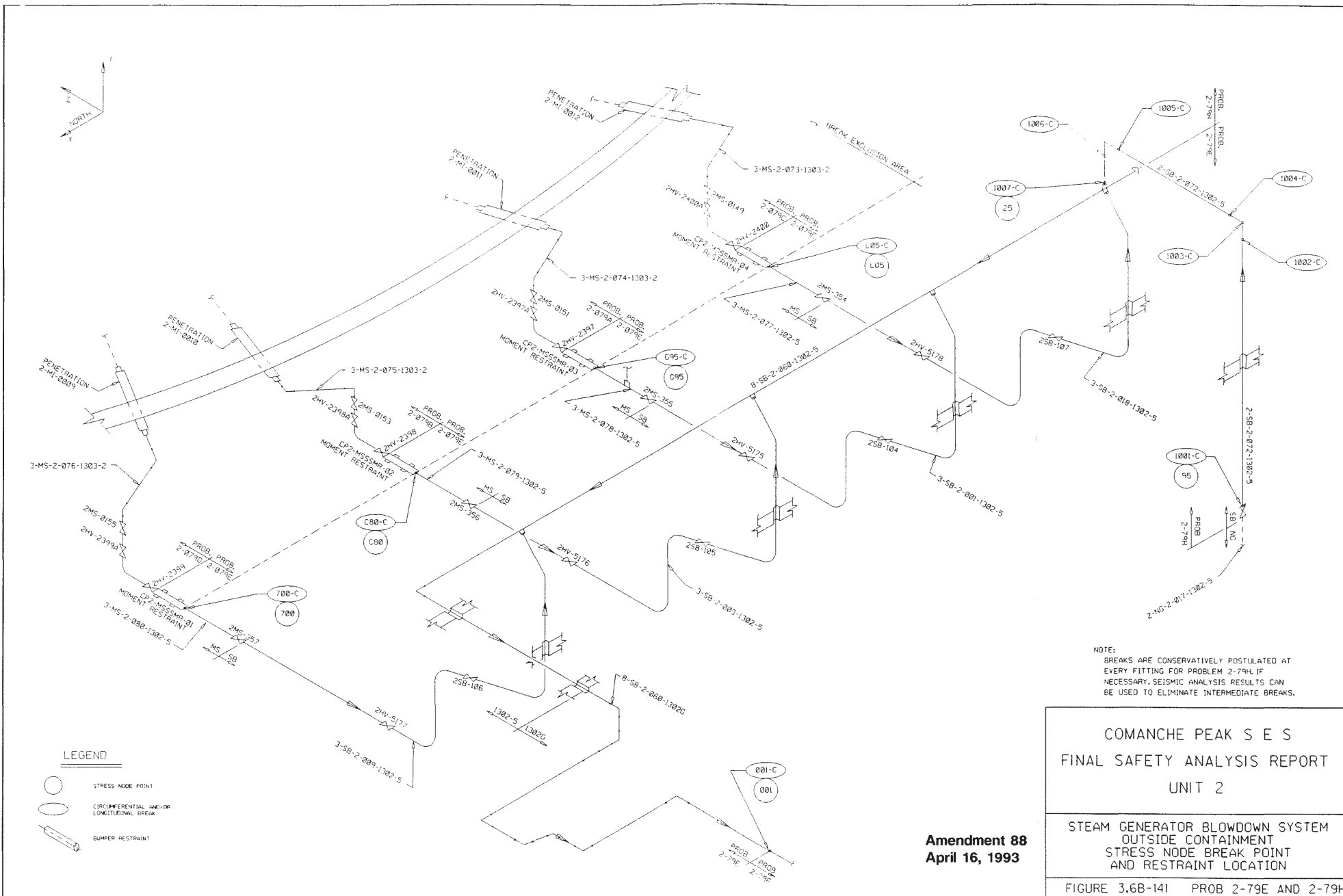
-  STRESS NODE POINT
-  CIRCUMFERENTIAL, AND/OR LONGITUDINAL BREAK

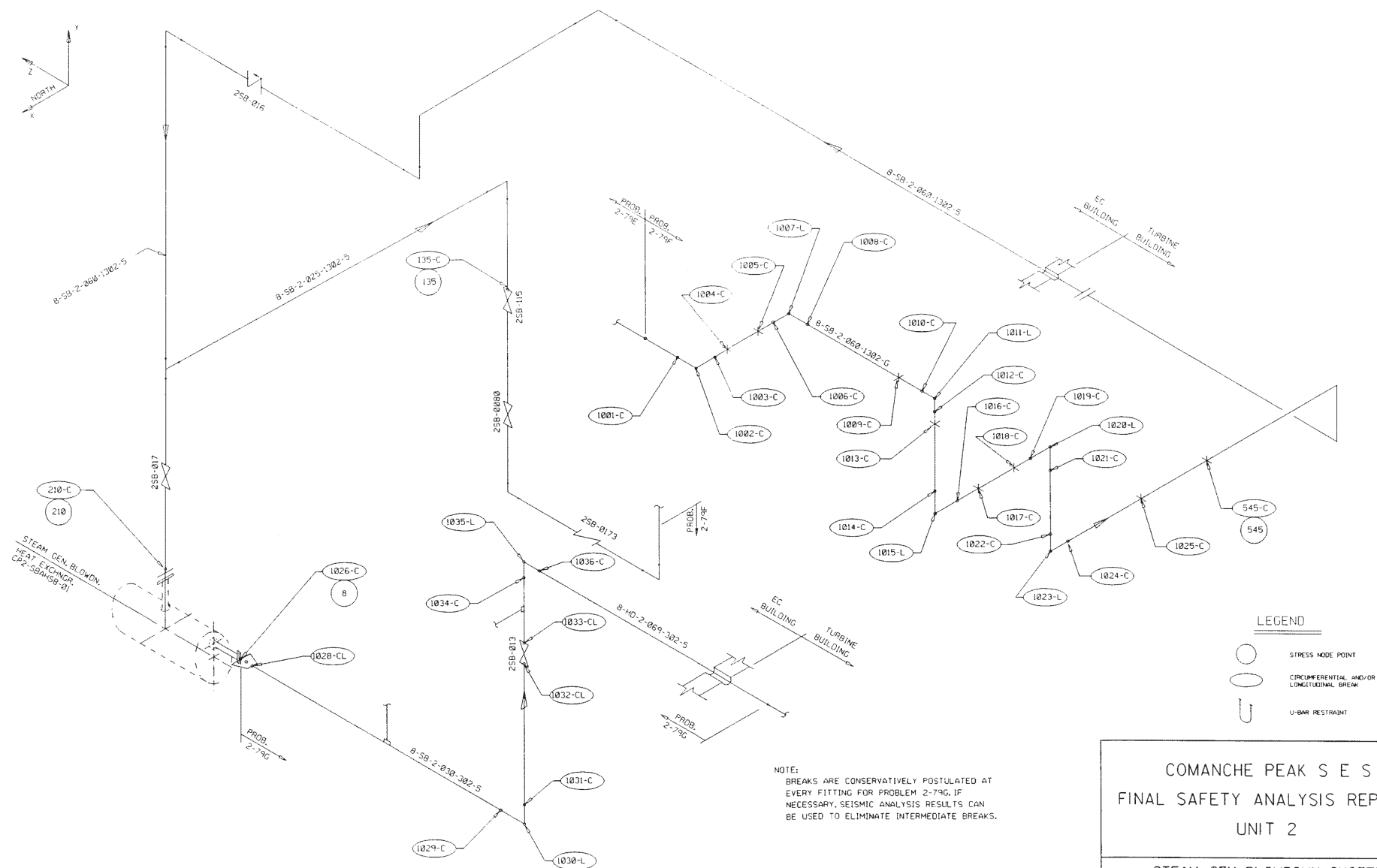
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

STM GEN BLOWDOWN SYS LOOP 2
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-138 PROB 2-076B







NOTE:
BREAKS ARE CONSERVATIVELY POSTULATED AT
EVERY FITTING FOR PROBLEM 2-79G. IF
NECESSARY, SEISMIC ANALYSIS RESULTS CAN
BE USED TO ELIMINATE INTERMEDIATE BREAKS.

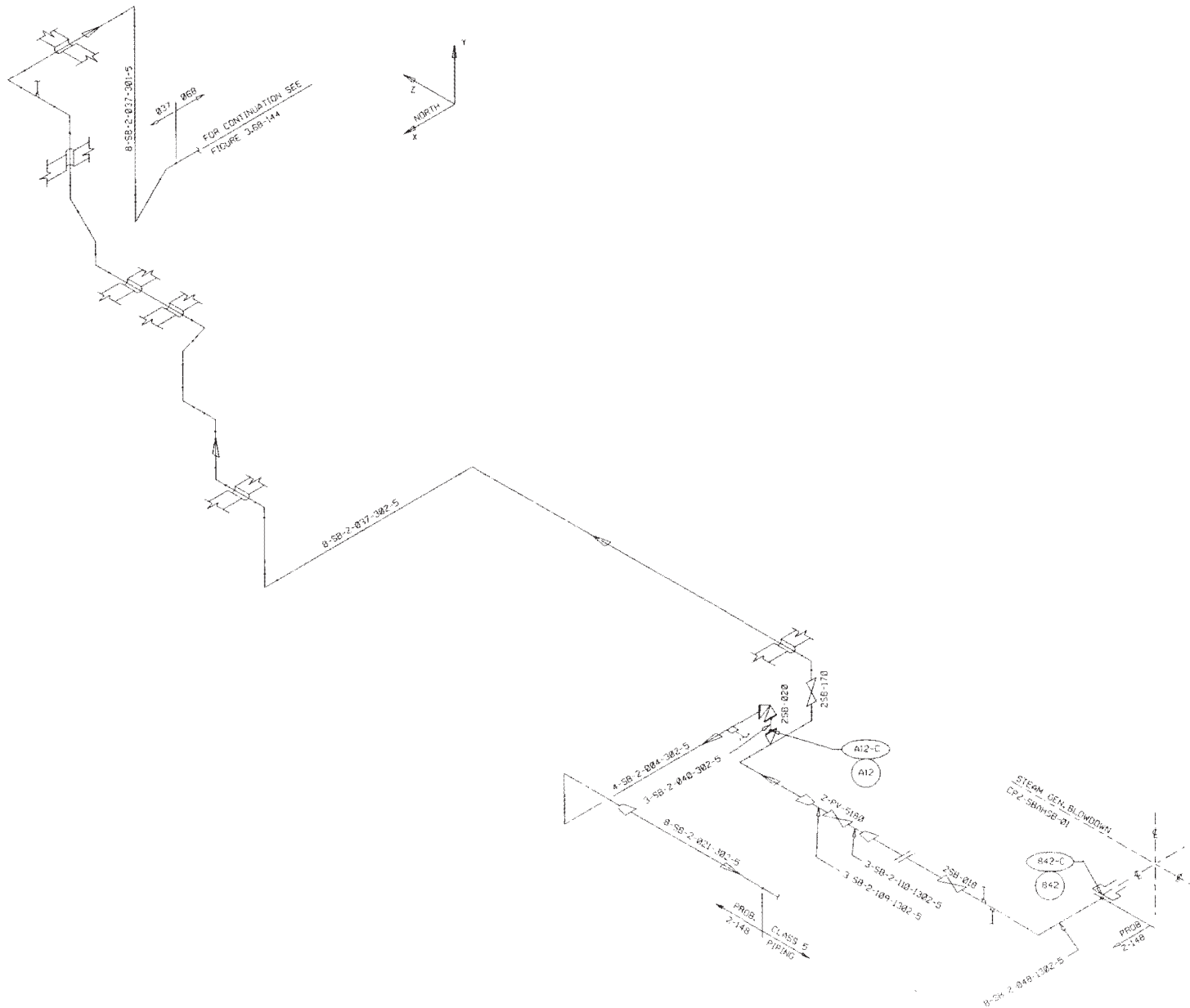
Amendment 88
April 16, 1993

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

STEAM GEN. BLOWDOWN SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-142 PROB 2-79F AND 2-79G

FIG142000.B11



**AMENDMENT 86
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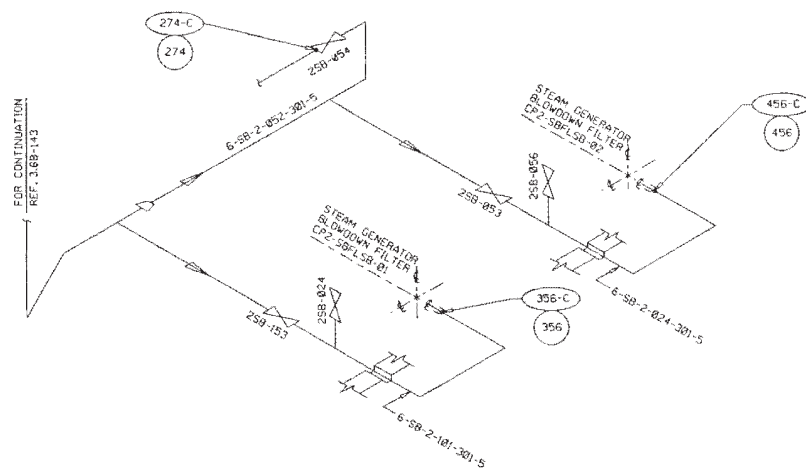
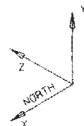
LEGEND

- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

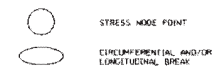
STEAM GEN. BLOWDOWN SYSTEM
AUX. BUILDING
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-143 PROB 2-148 SH 1 OF 2



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LEGEND



COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

STEAM GEN. BLOWDOWN SYSTEM
AUX. BUILDING
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

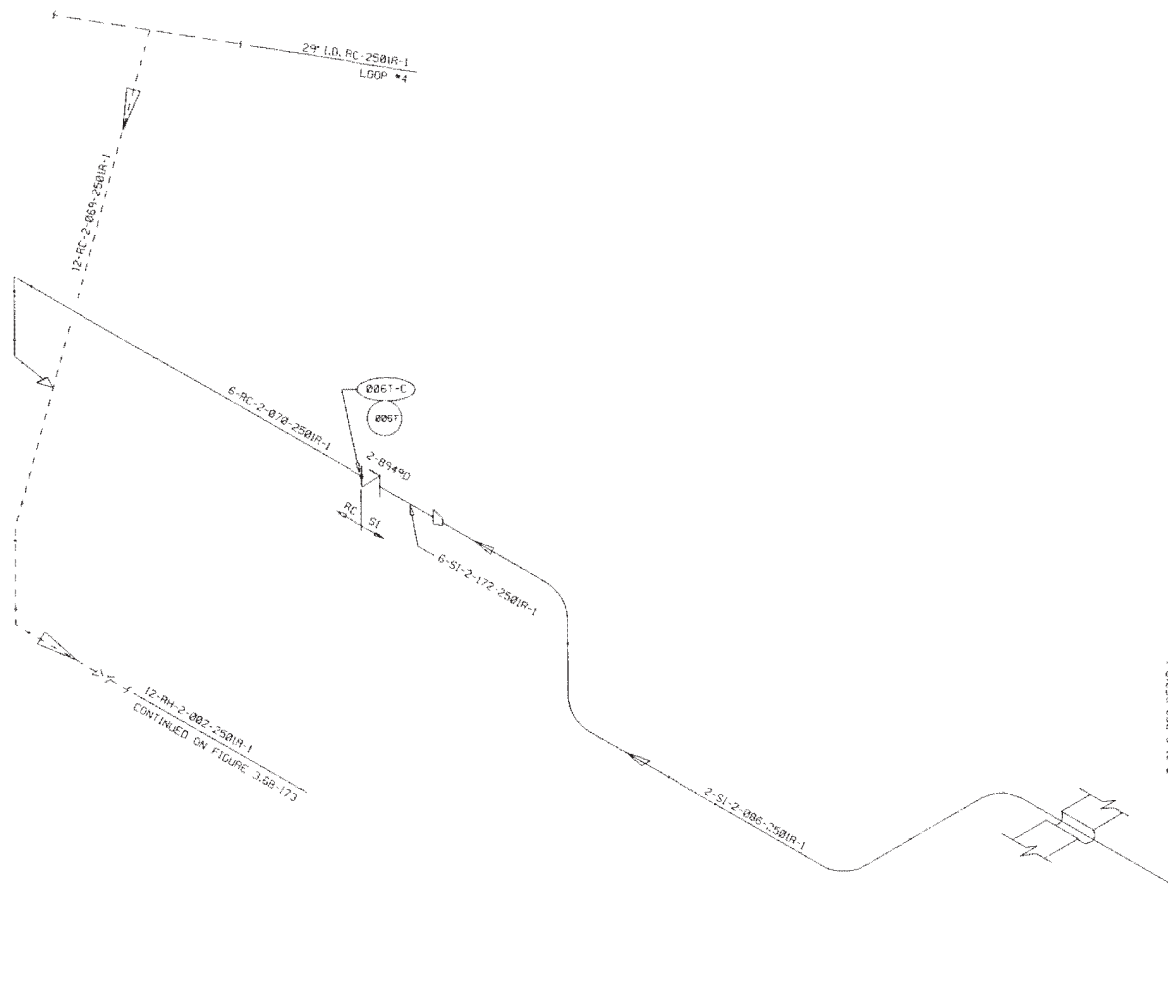
FIGURE 3.6B-144 PROB 2-148 SH 2 OF 2

CPSES / FSAR

**Figure 3.6B-145
(NOT USED)**




CPSES / FSAR

**Figure 3.6B-146
(NOT USED)**



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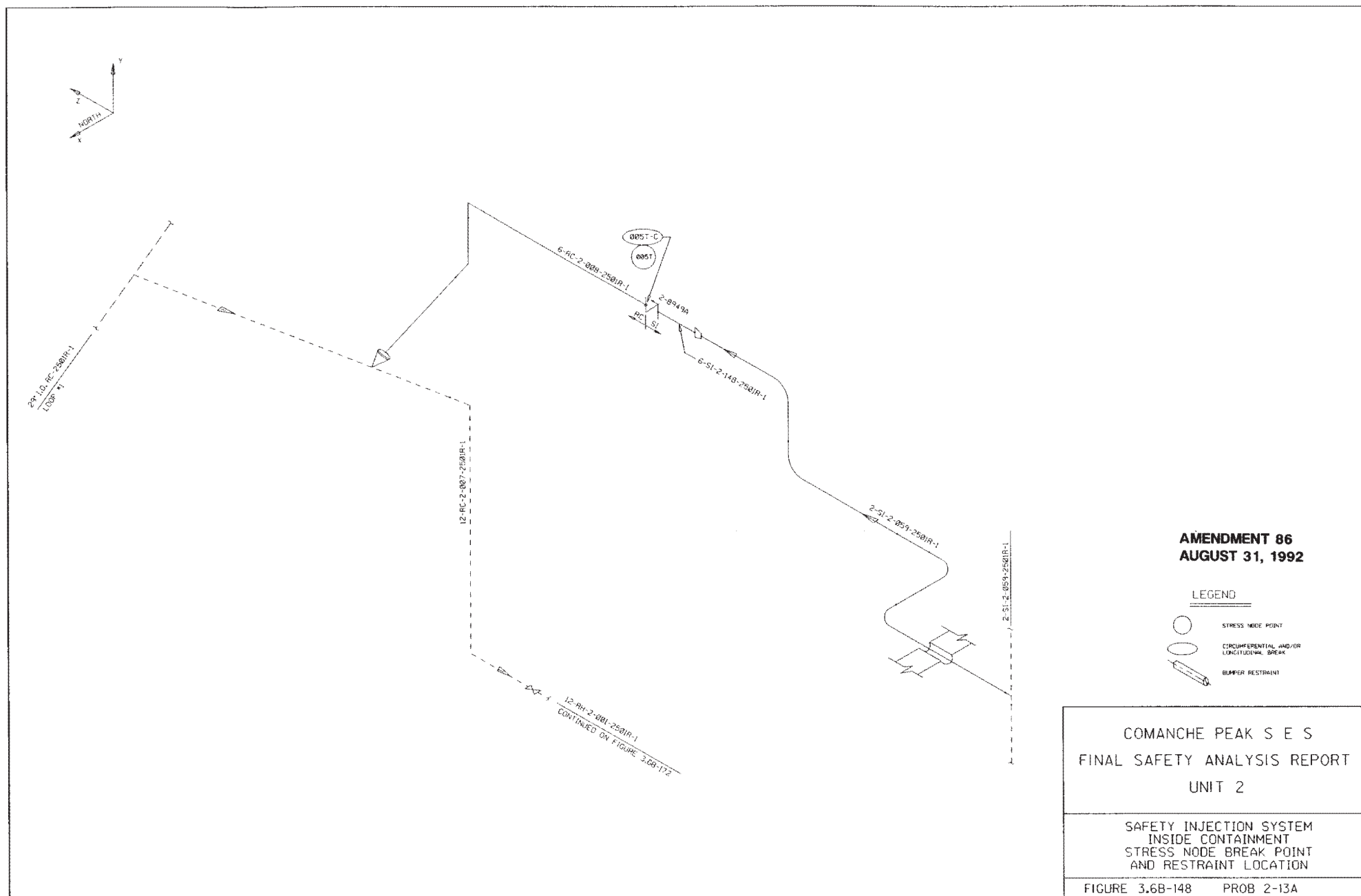
LEGEND

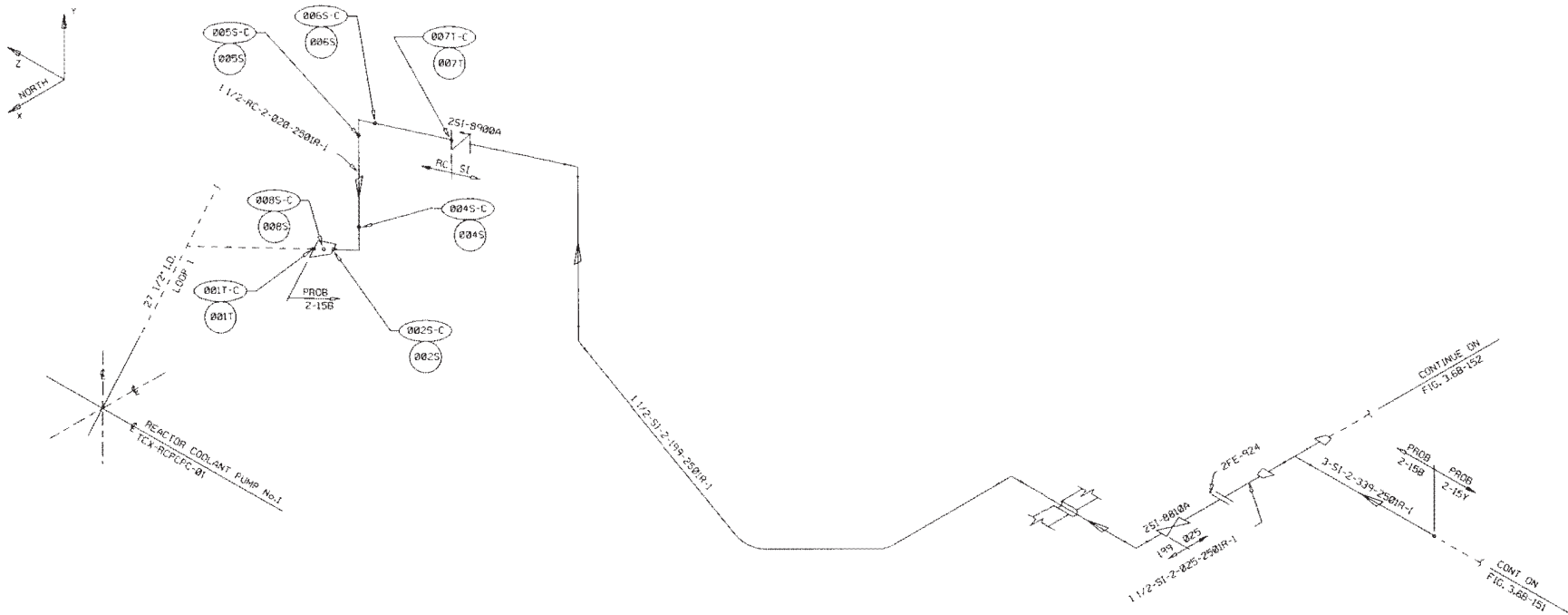
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
-  BUMPER RESTRAINT

**COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2**

**SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION**

FIGURE 3.6B-147 PROB 2-13B





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LEGEND

- STRESS NODE POINT
- LONGITUDINAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
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UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-150 PROB 2-15B

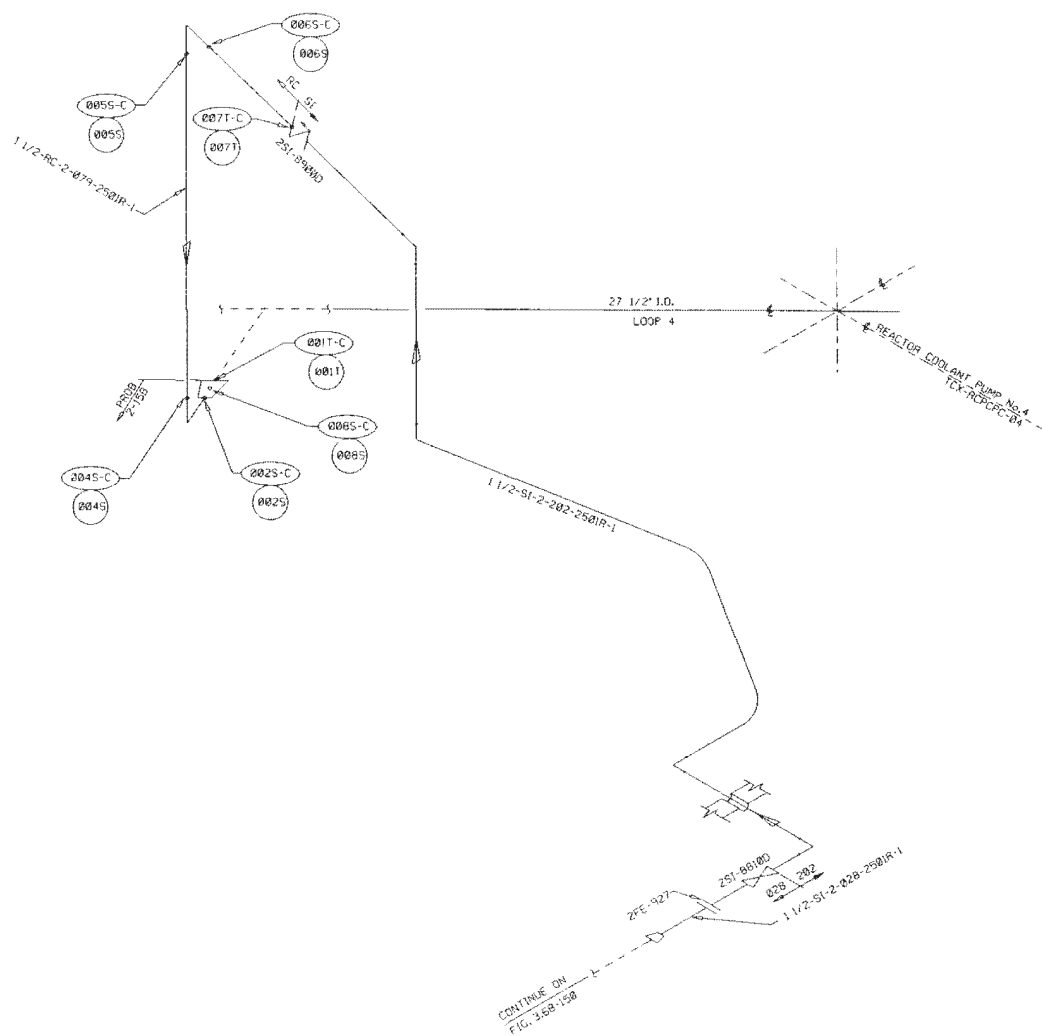
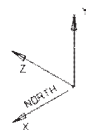


○ STRESS NODE POINT

— CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-151 PROB 2-15Y



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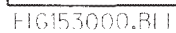
LEGEND

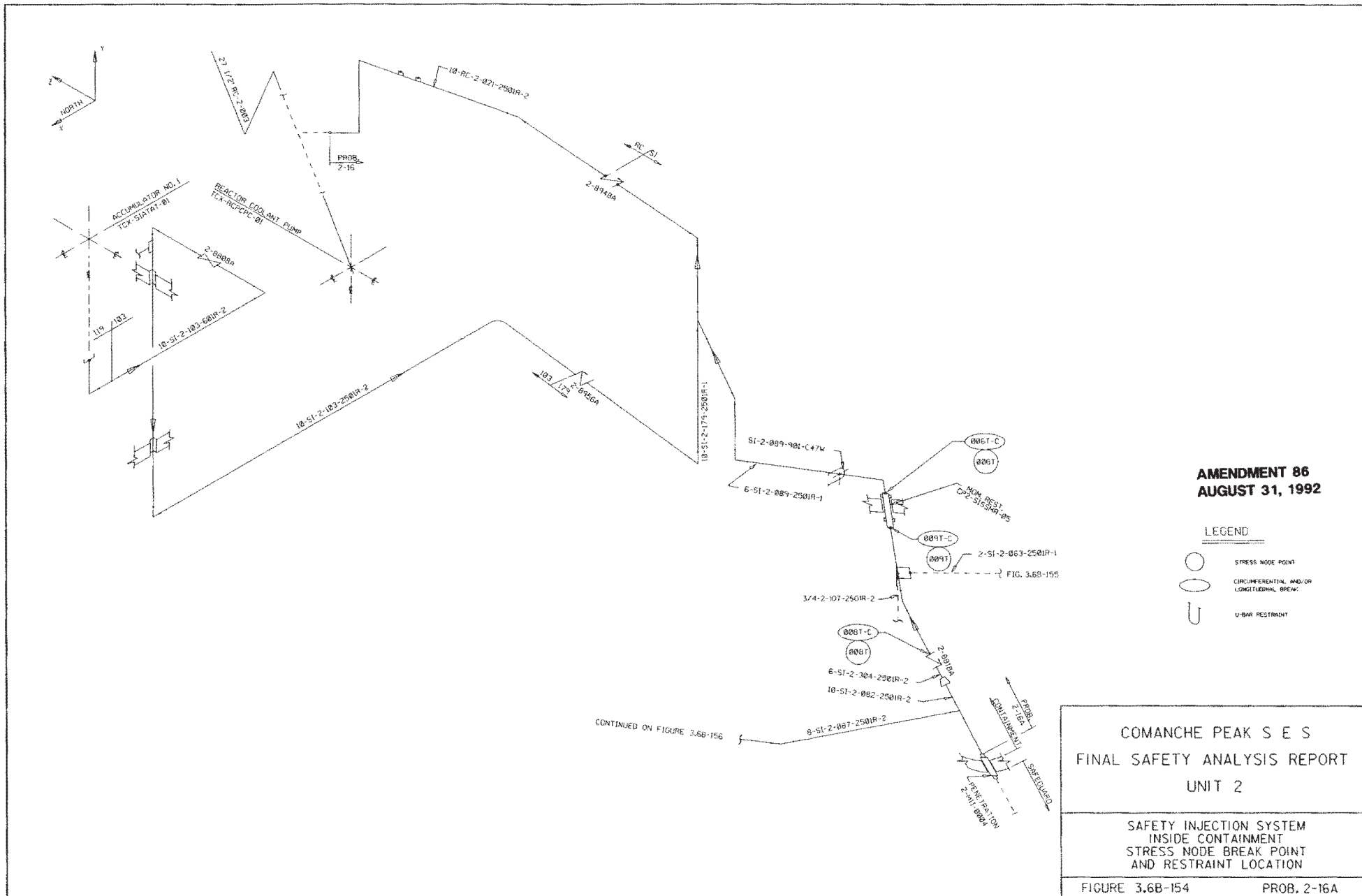
- STRESS NODE POINT
- CONCURRENTIAL AND/OR LONGITUDINAL BREAK

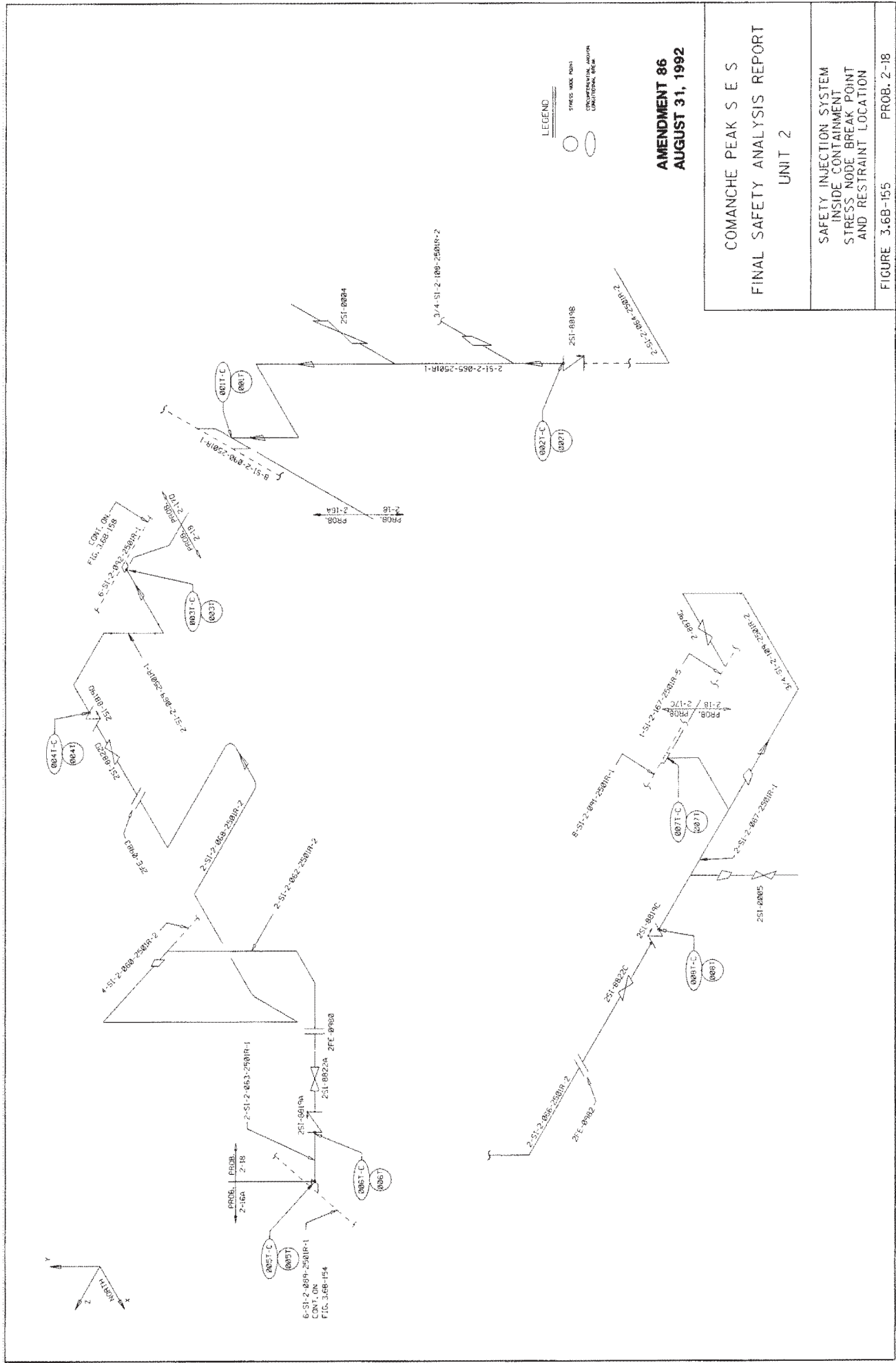
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

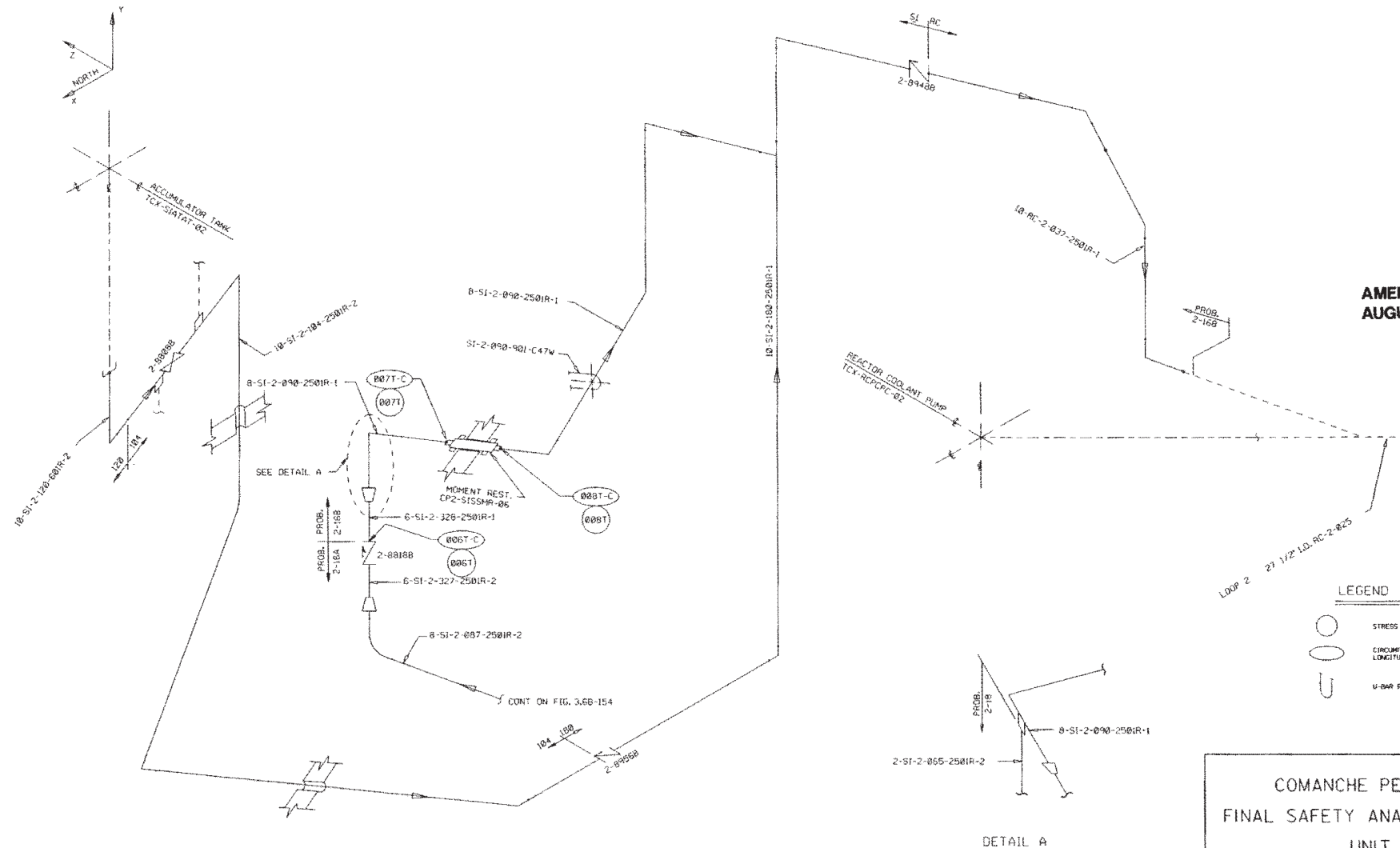
FIGURE 3.6B-152 PROB 2-15B







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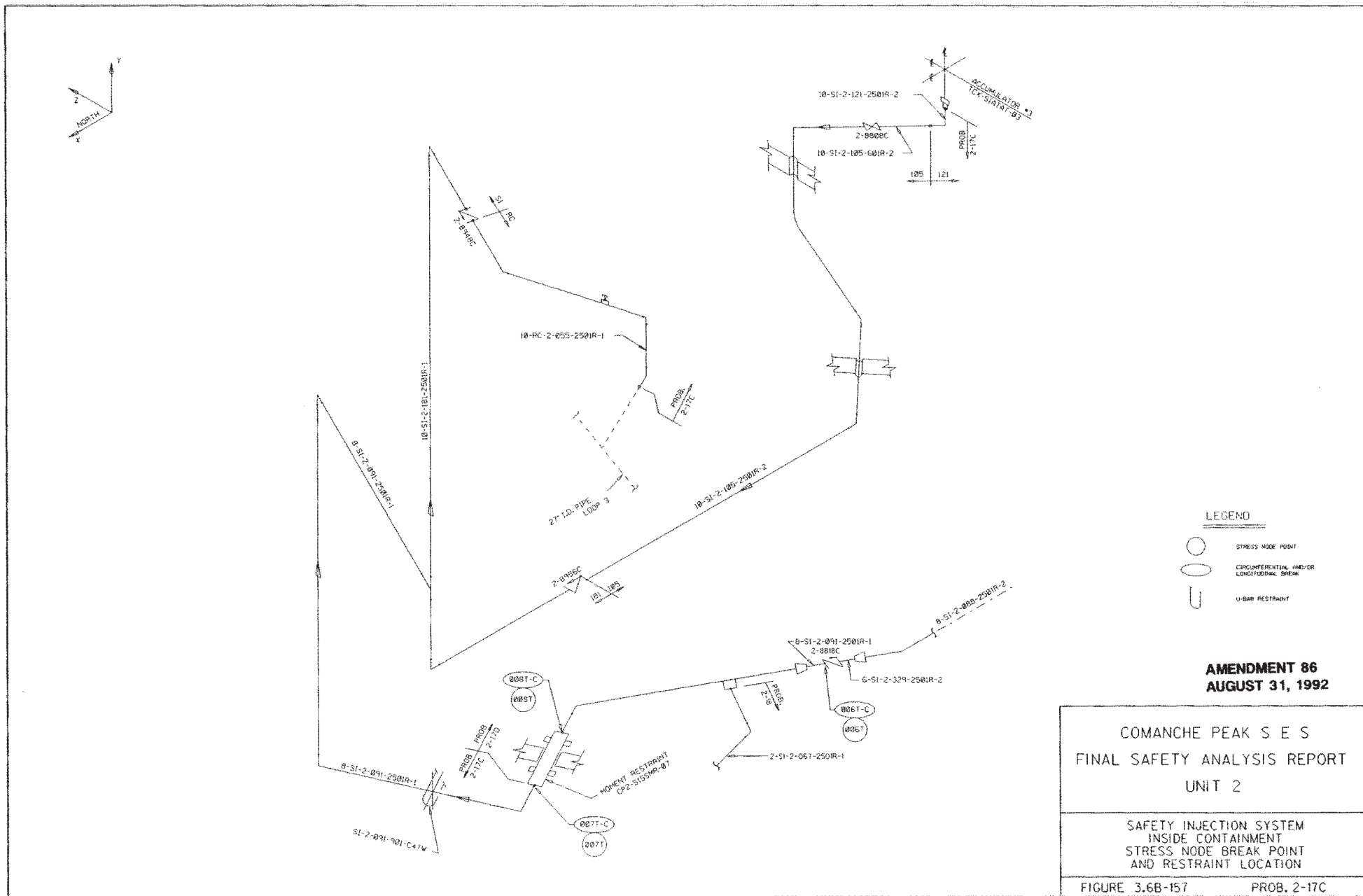


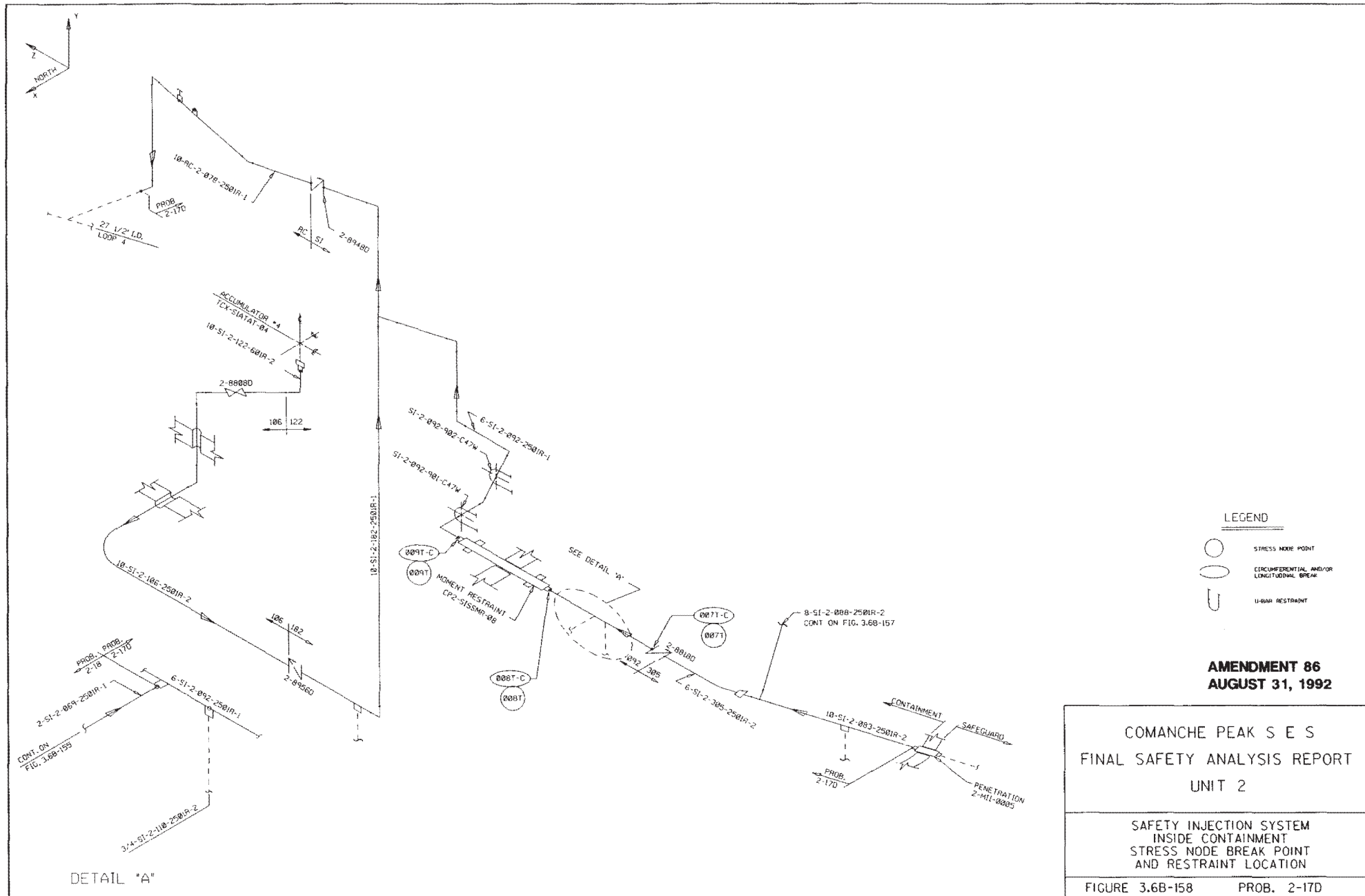
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

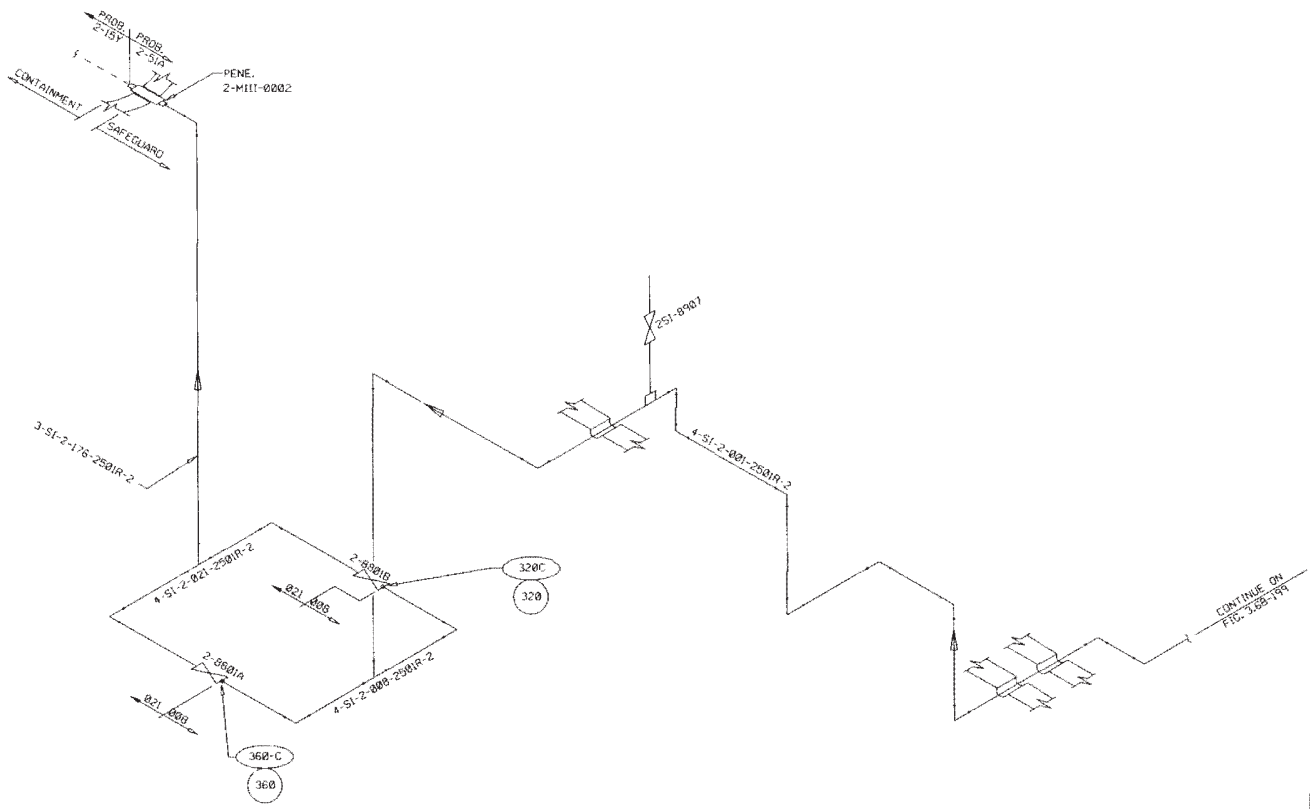
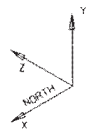
SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-156

PROB. 2-16B









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AUGUST 31, 1992

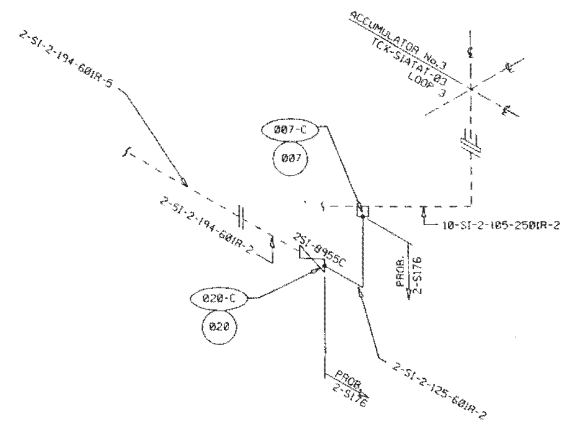
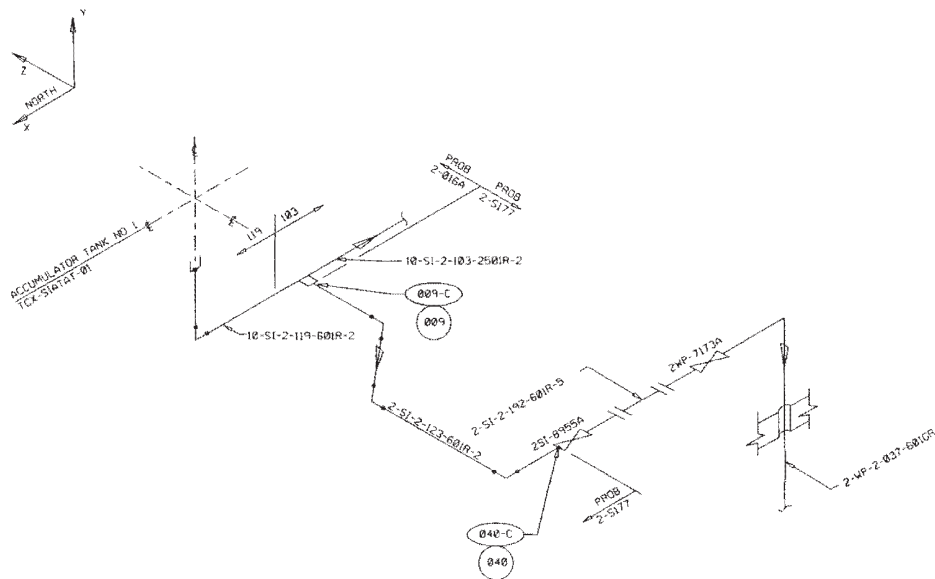
LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

SAFETY INJECTION SYSTEM
OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-159 PROB. 2-51A



**AMENDMENT 86
AUGUST 31, 1992**

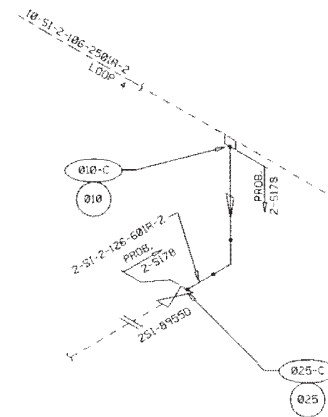
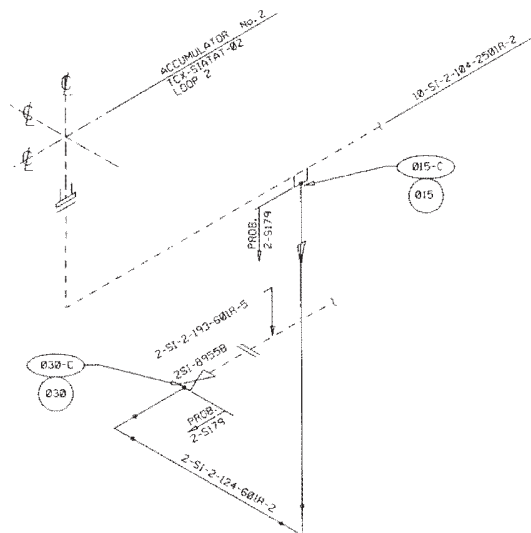
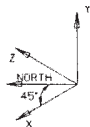
LEGEND

- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

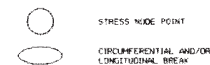
SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-160 PROB. 2-S176 & 2-S177



**AMENDMENT 86
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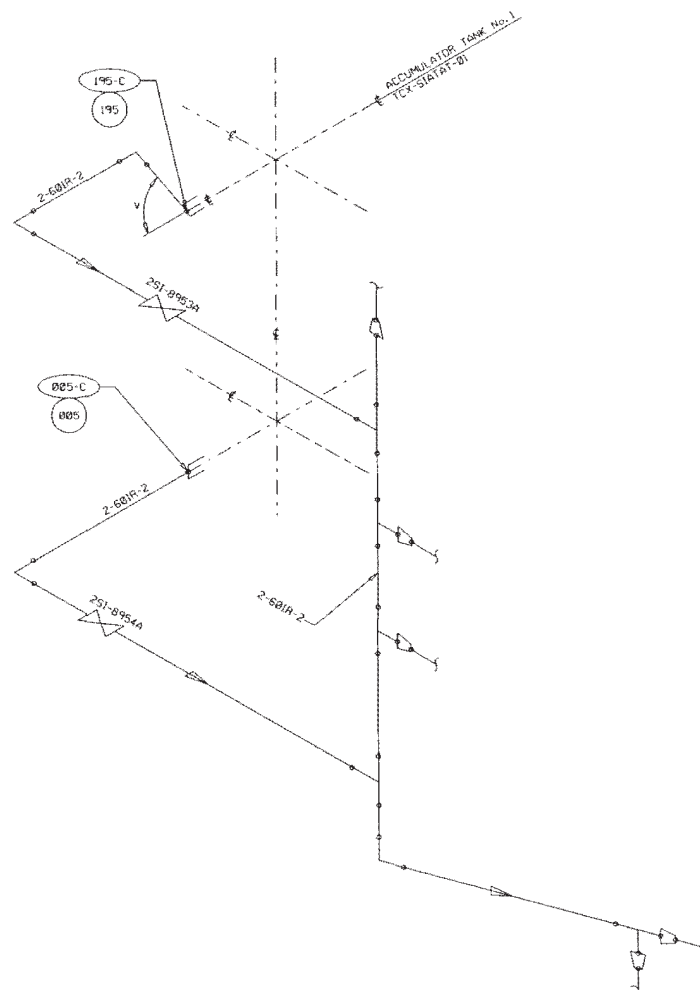
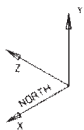
LEGEND



COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
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SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-161 PROB. 2-S178 & 2-S179



**AMENDMENT 86
AUGUST 31, 1992**

LEGEND

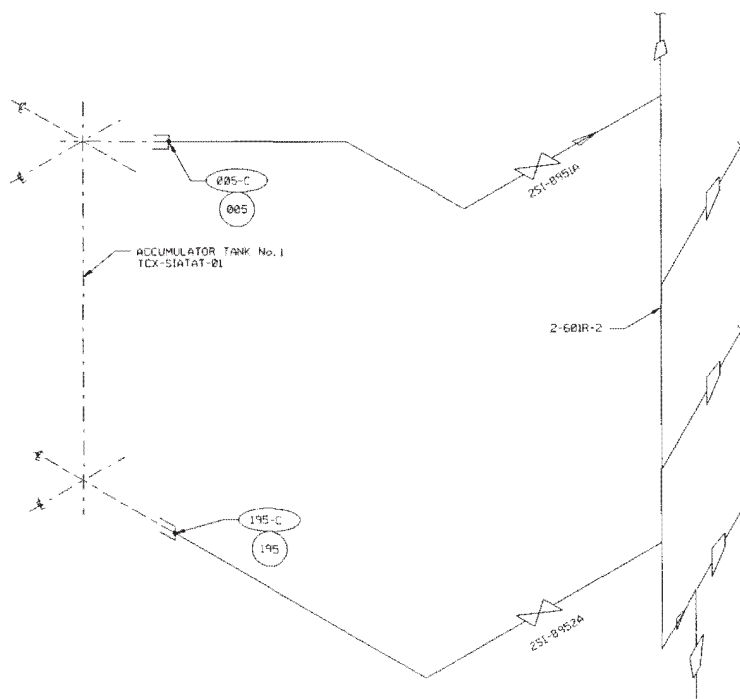
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
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SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-162

PROB. 2-S116



**AMENDMENT 86
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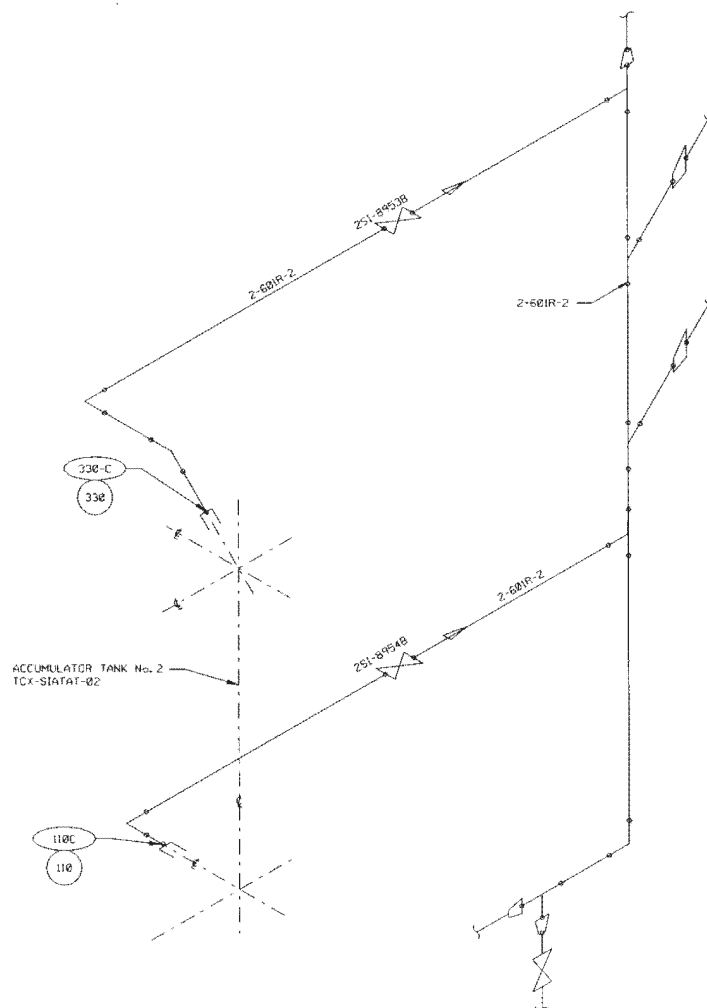
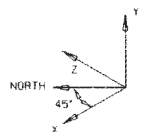
LEGEND

- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
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SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-163 PROB. 2-S086



**AMENDMENT 86
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LEGEND

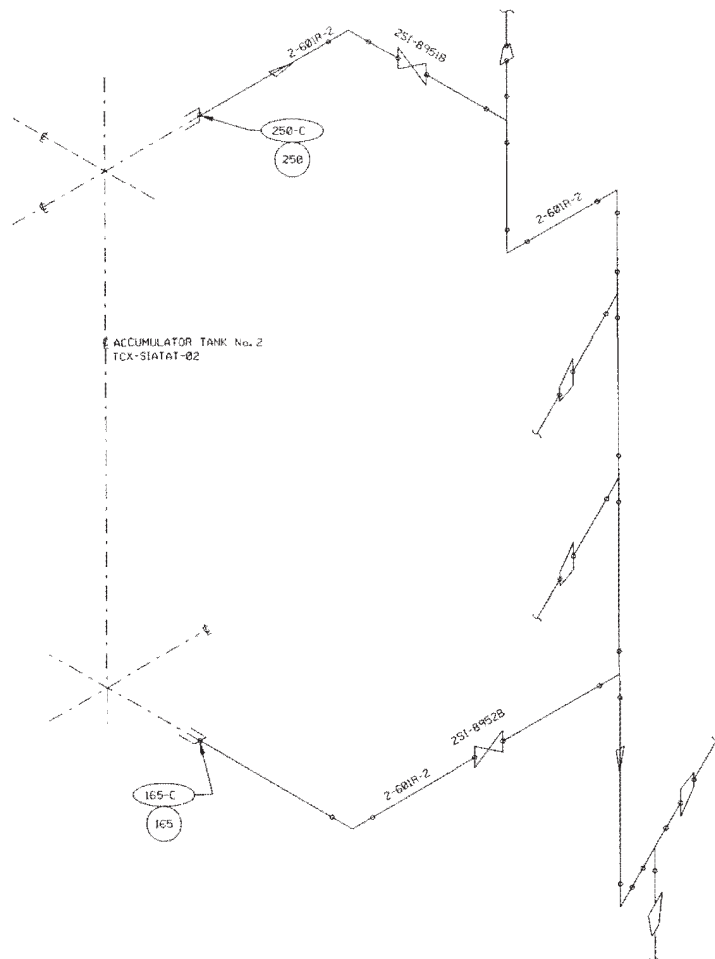
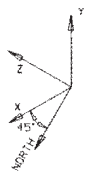
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION



FIGURE 3.6B-164

PROB. 2-S095



**AMENDMENT 86
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LEGEND

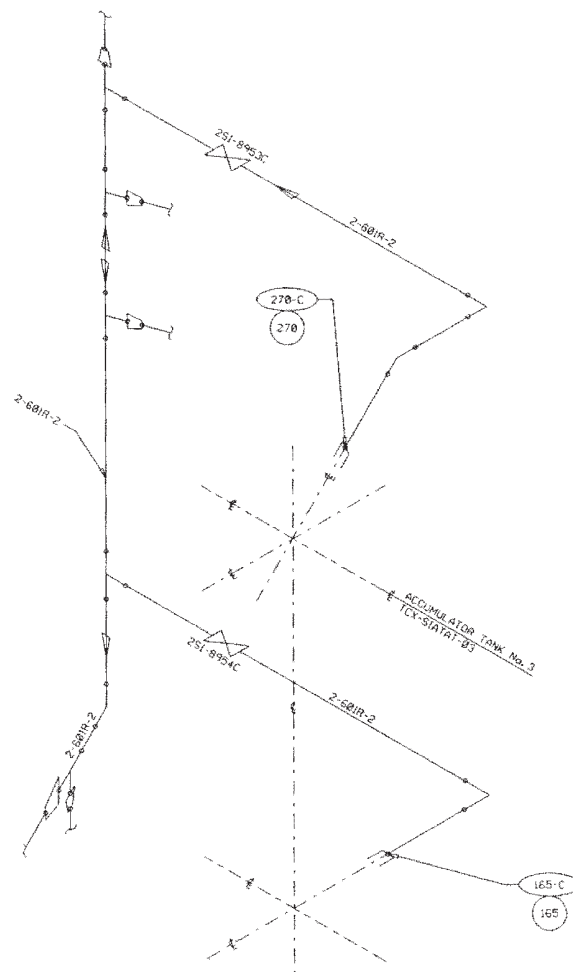
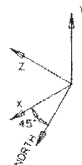
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION



FIGURE 3.6B-165

PROB. 2-S119



**AMENDMENT 86
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LEGEND

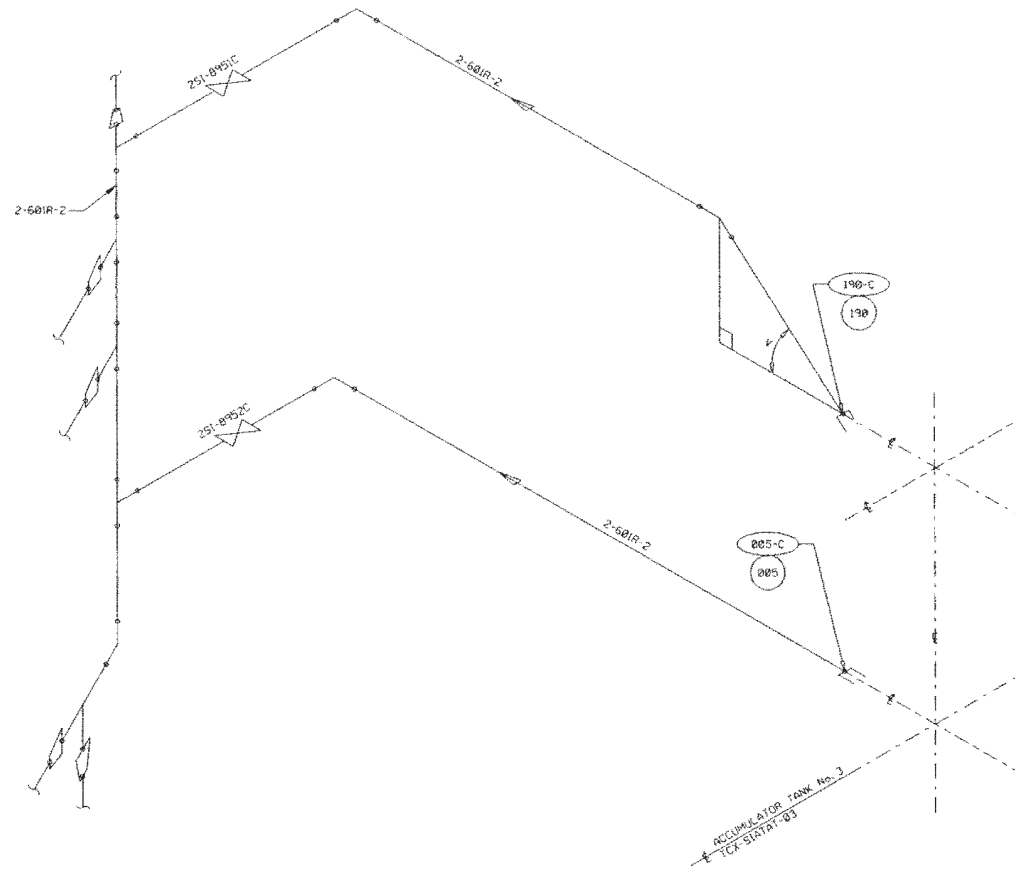
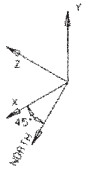
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION



FIGURE 3.6B-166

PROB. 2-S088



**AMENDMENT 86
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LEGEND

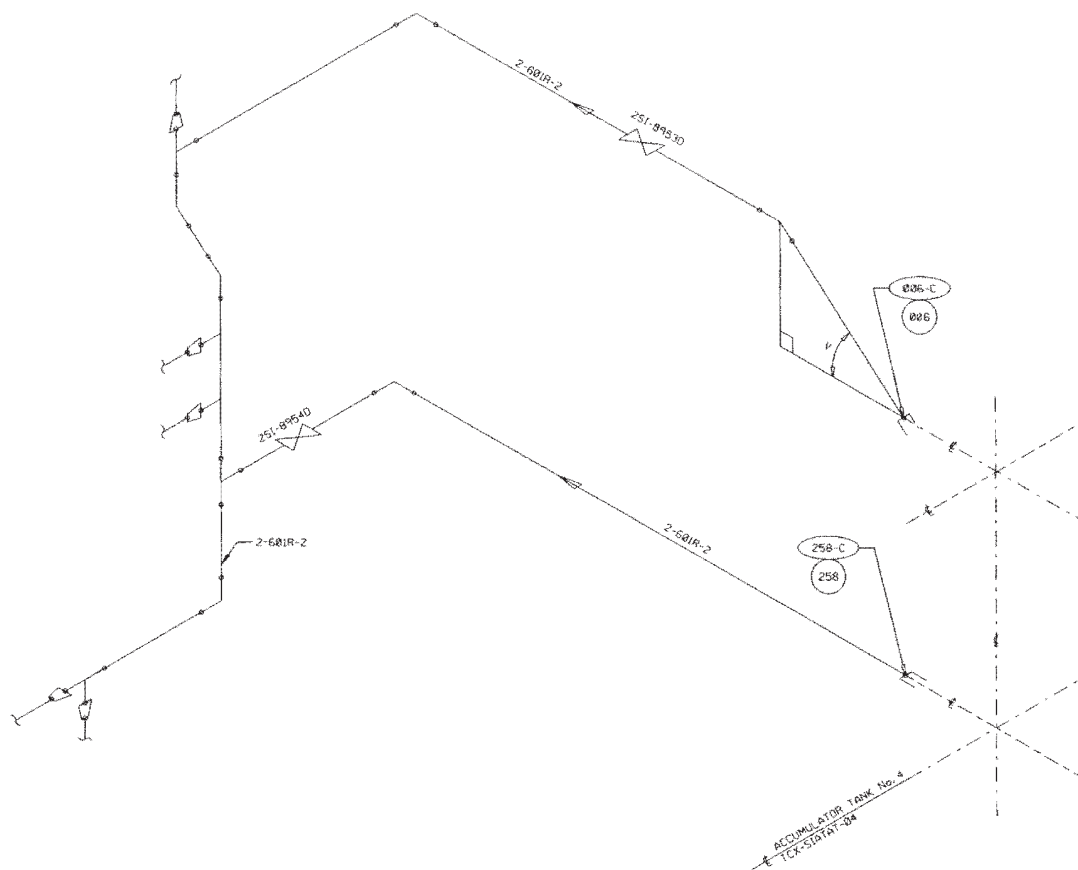
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION



FIGURE 3.6B-167

PROB. 2-S121



**AMENDMENT 86
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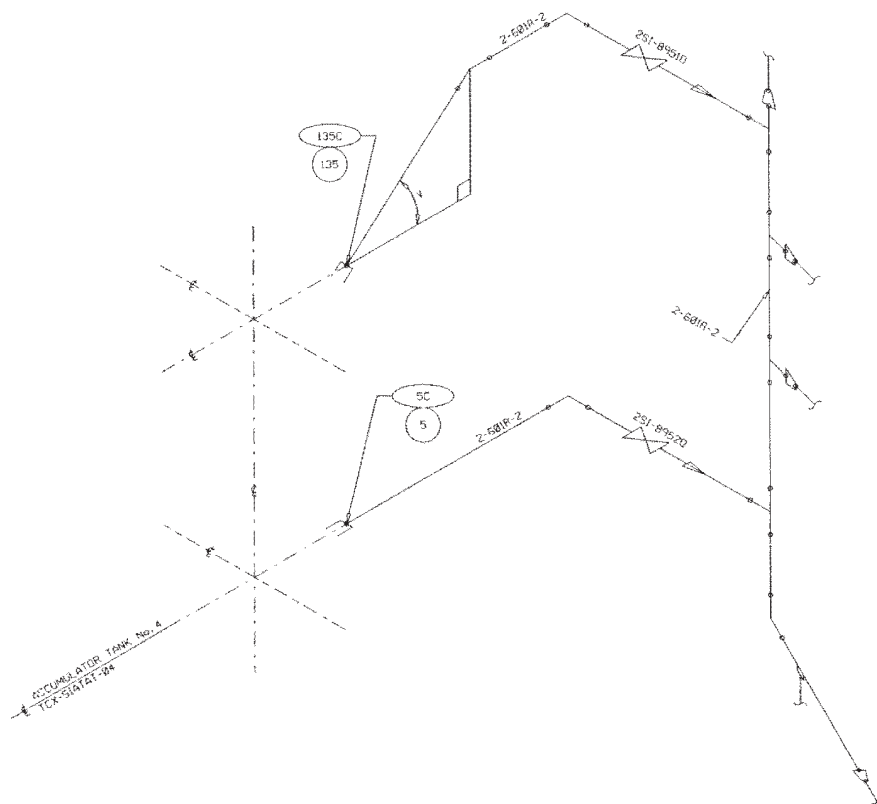
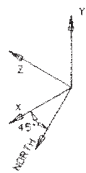
LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
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UNIT 2



SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-168 PROB. 2-S090



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LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

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UNIT 2

SAFETY INJECTION SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-169

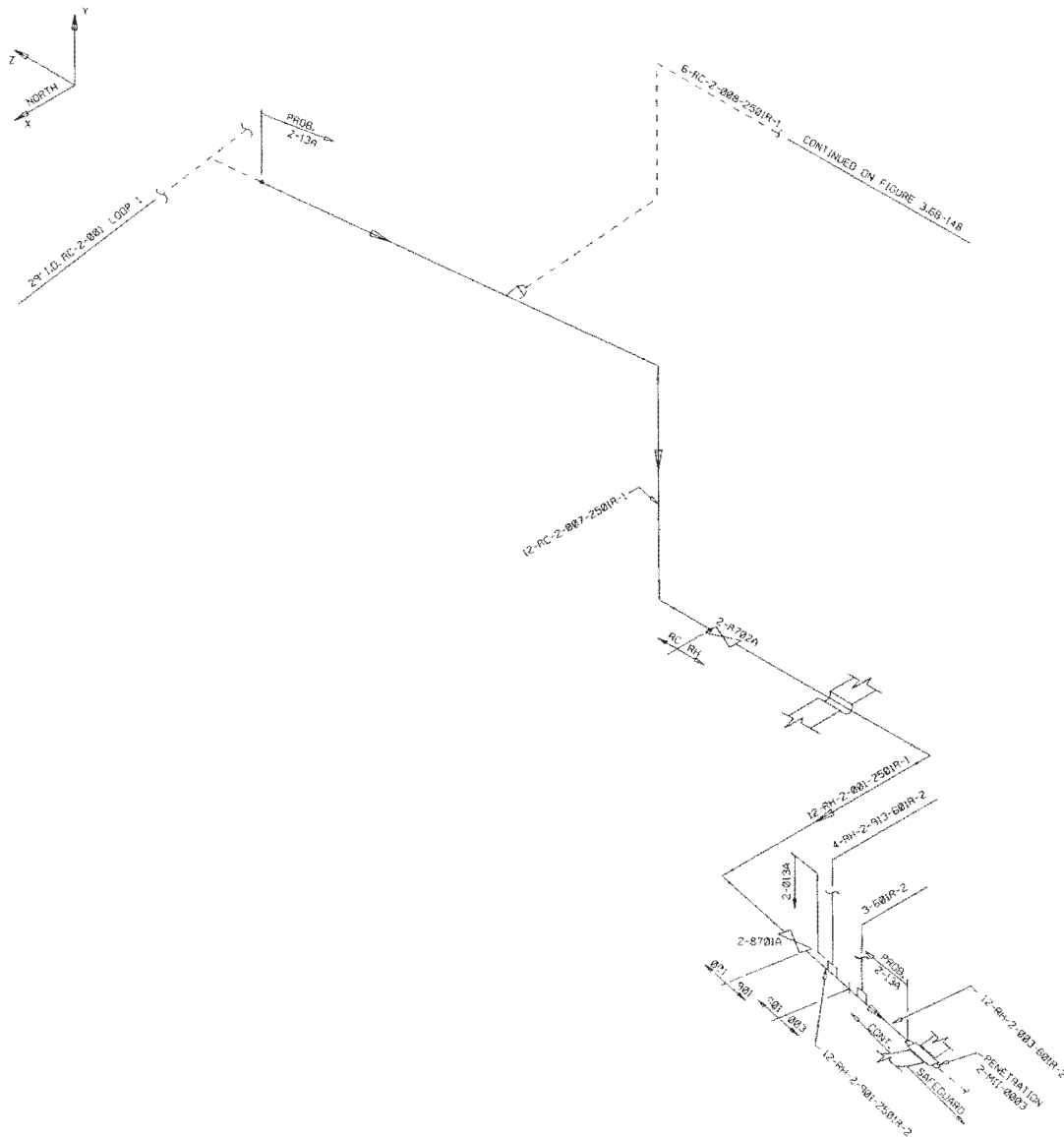
PROB. 2-S089

CPSES / FSAR

**Figure 3.6B-170 thru 3.6B-171
(NOT USED)**



CPSES / FSAR

**Figure 3.6B-170 thru 3.6B-171
(NOT USED)**



**AMENDMENT 86
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LEGEND

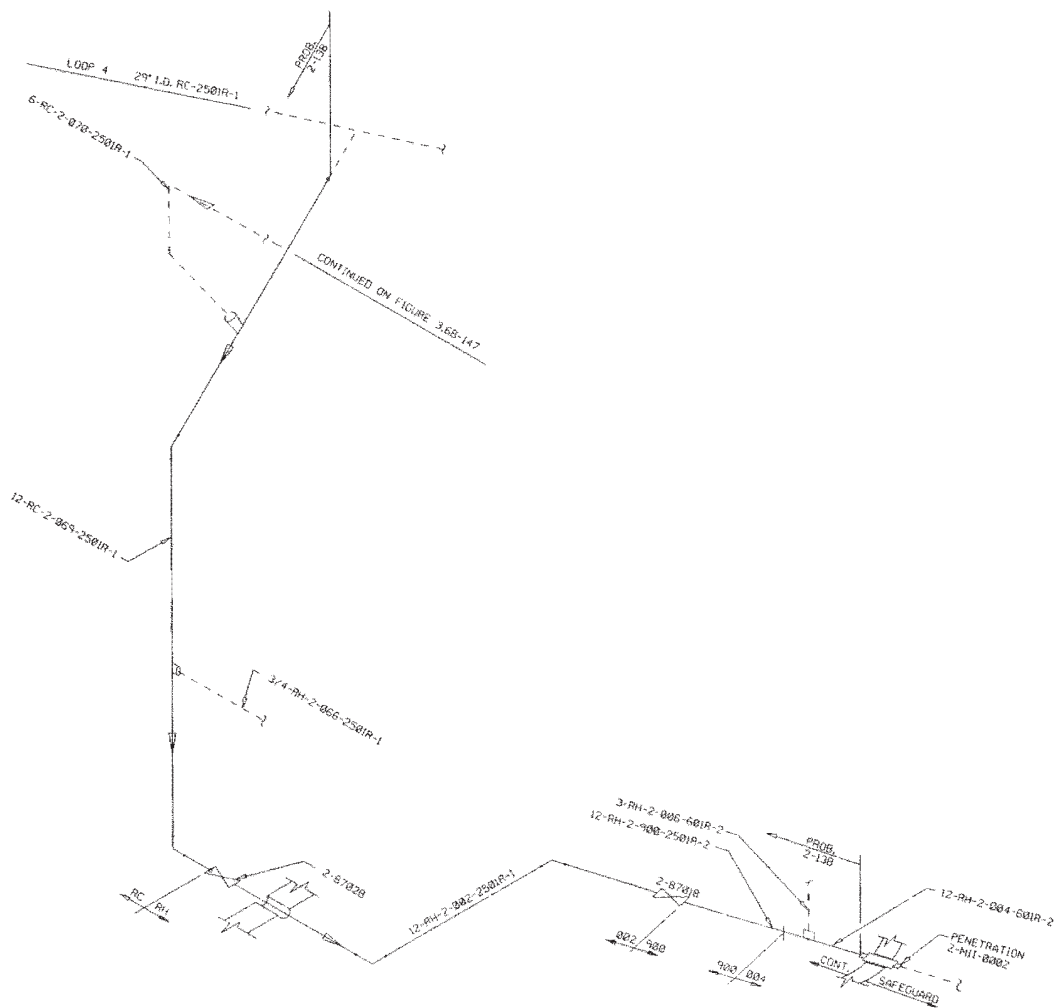
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
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UNIT 2

RHR SYSTEM
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION



FIGURE 3.6B-172

PROB 2-13A



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LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
 FINAL SAFETY ANALYSIS REPORT
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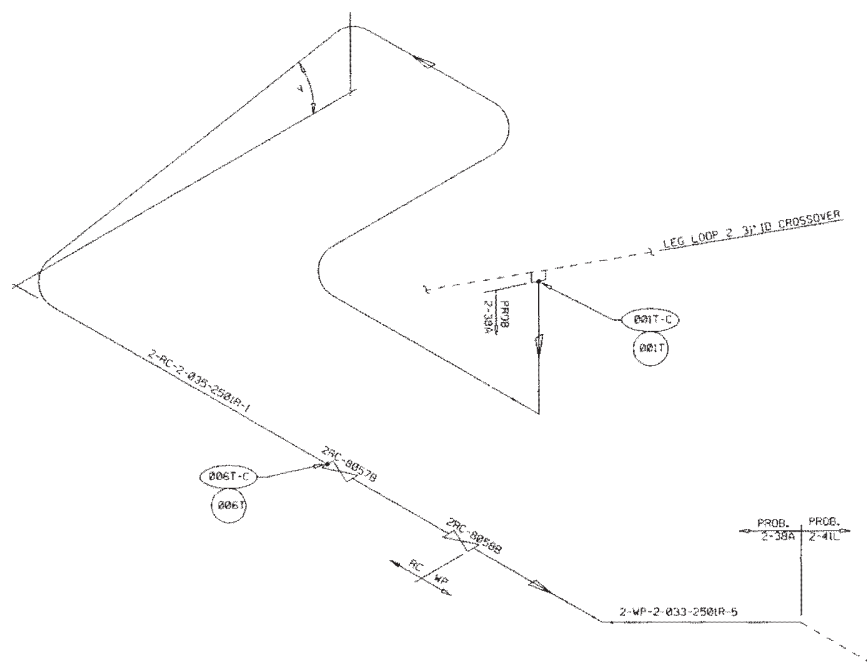
RHR SYSTEM
 STRESS NODE BREAK POINT
 AND RESTRAINT LOCATION

FIGURE 3.6B-173

PROB 2-13B

CPSES / FSAR

**Figure 3.6B-174
(NOT USED)**



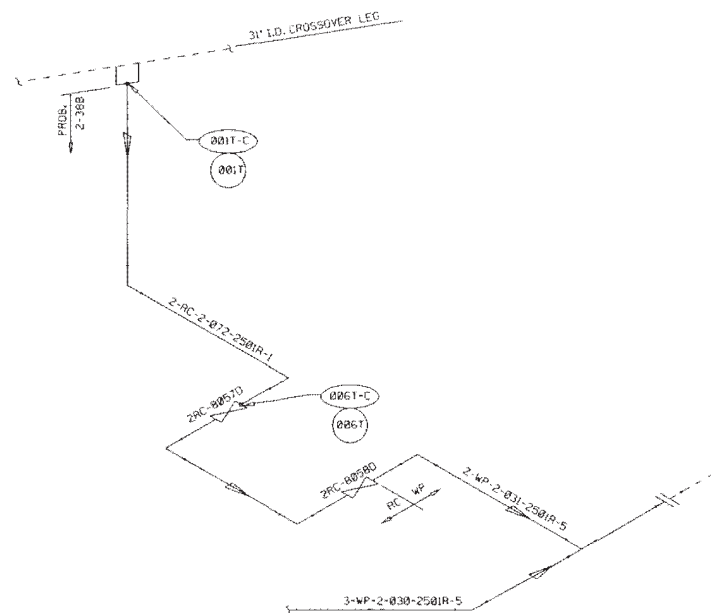
**AMENDMENT 86
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**COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
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**REACTOR COOLANT SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION**

FIGURE 3.6B-175 PROB. 2-38A



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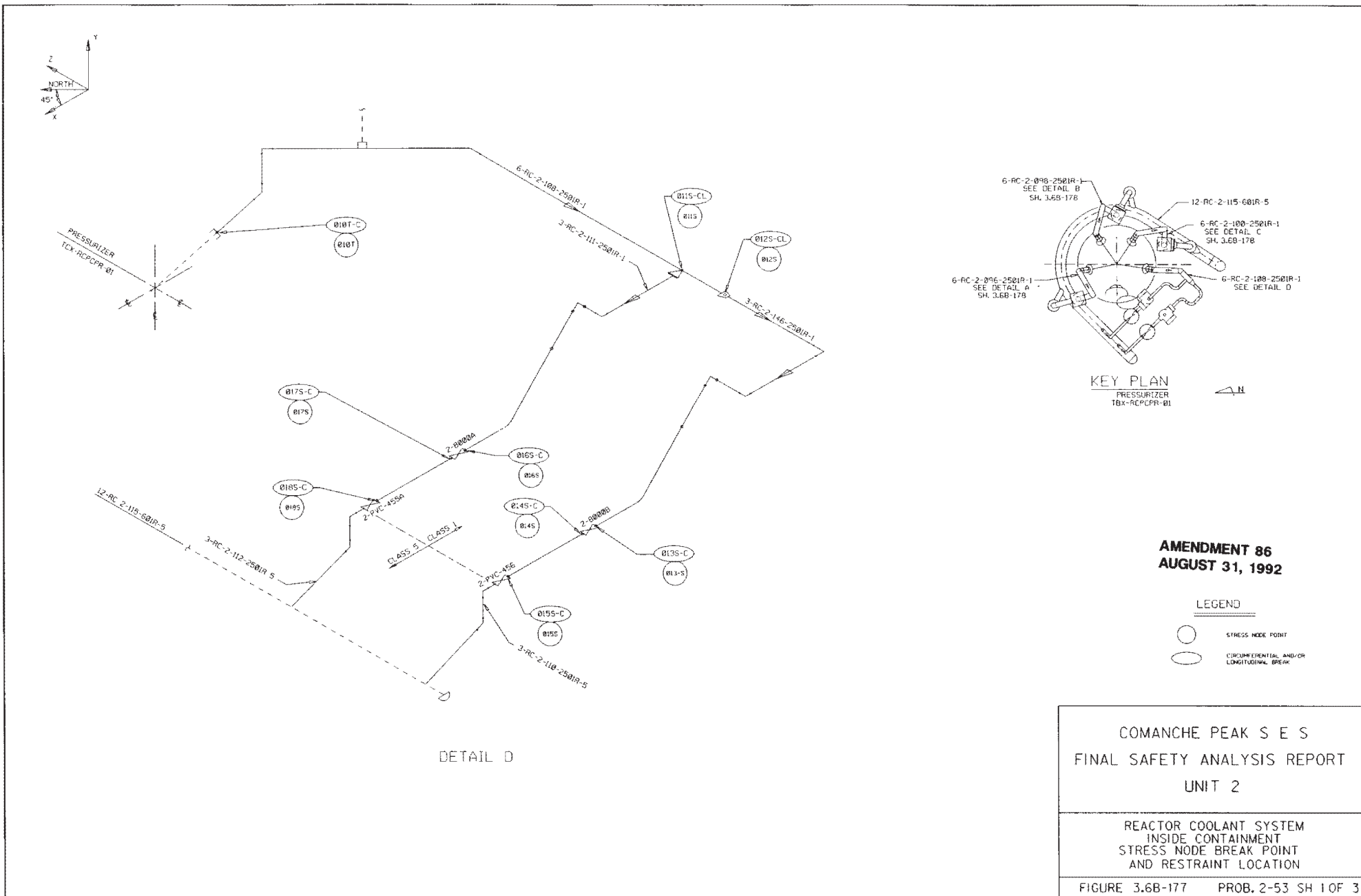
LEGEND

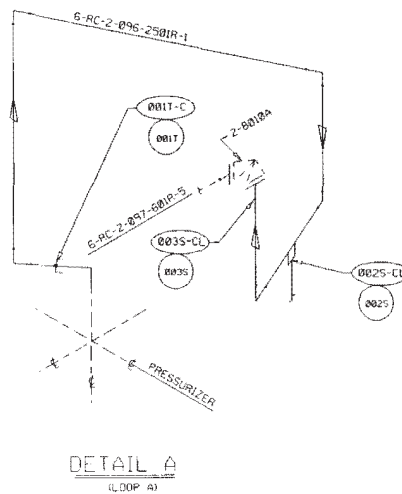
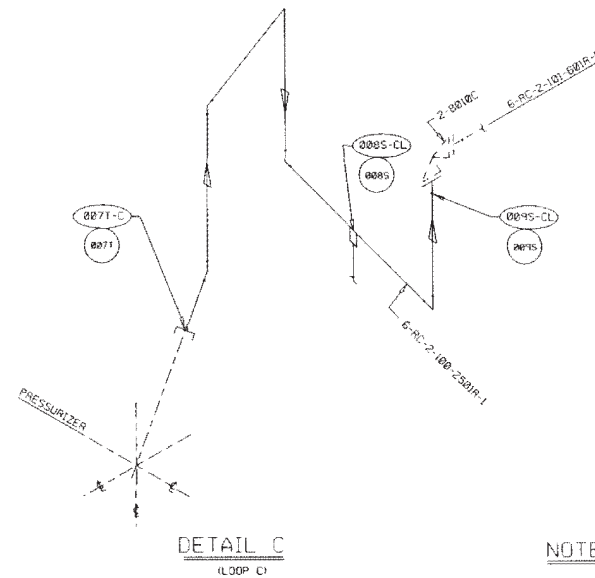
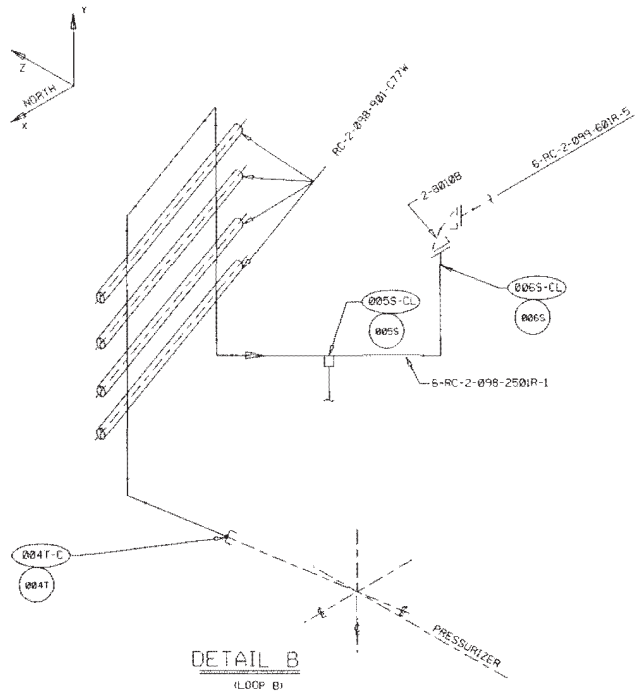
- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

REACTOR COOLANT SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-176 PROB. 2-38B



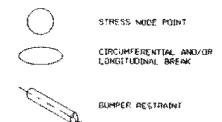


AMENDMENT 86
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NOTES

1. FOR LOCATION OF BREAKS ON
LOOPS A, B, & C SEE DETAIL E
FIG. 3.6B-179.

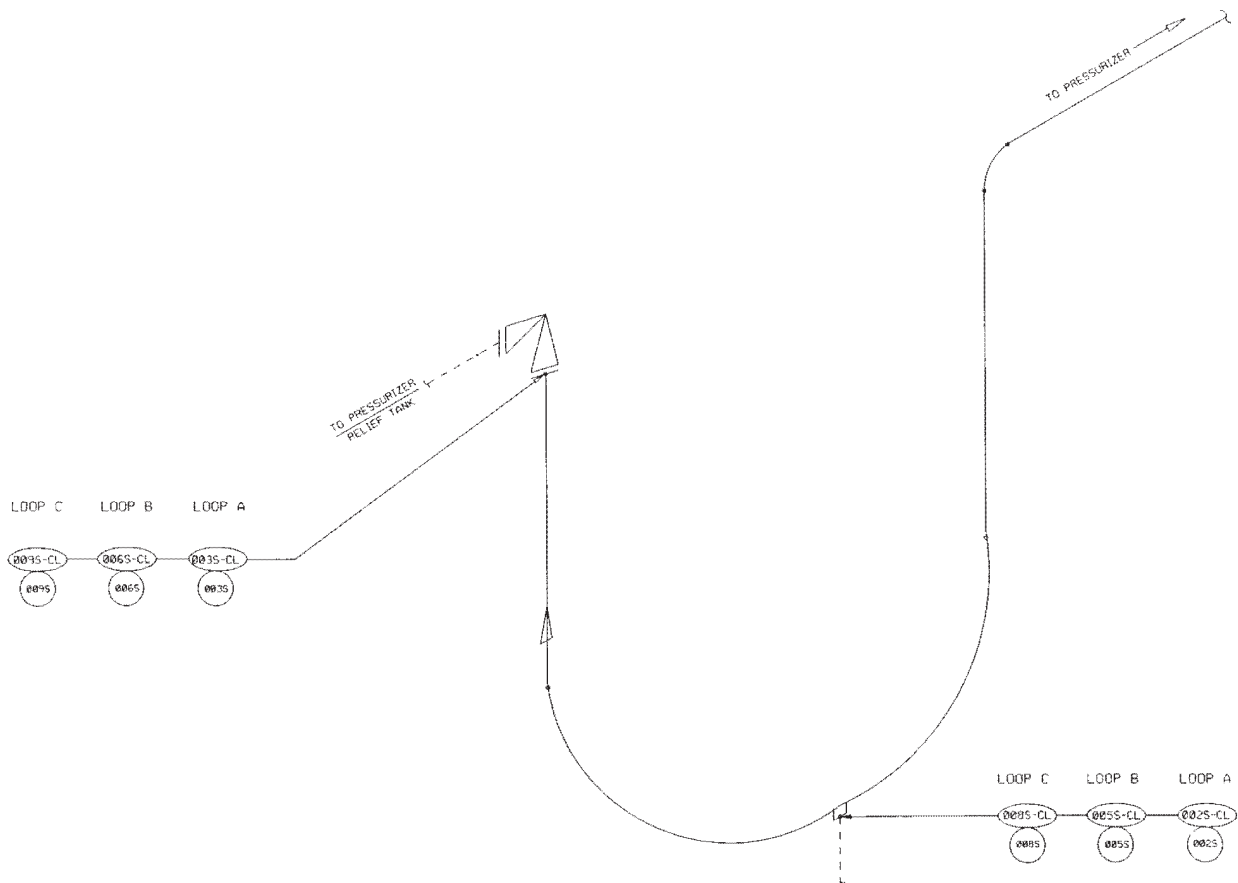
LEGEND



COMANCHE PEAK S E S
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UNIT 2

REACTOR COOLANT SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-178 PROB. 2-53 SH 2 OF 3



DETAIL E
 BREAK LOCATIONS
 FOR LOOPS A, B, & C.
 REF. 3.6B-179

AMENDMENT 86
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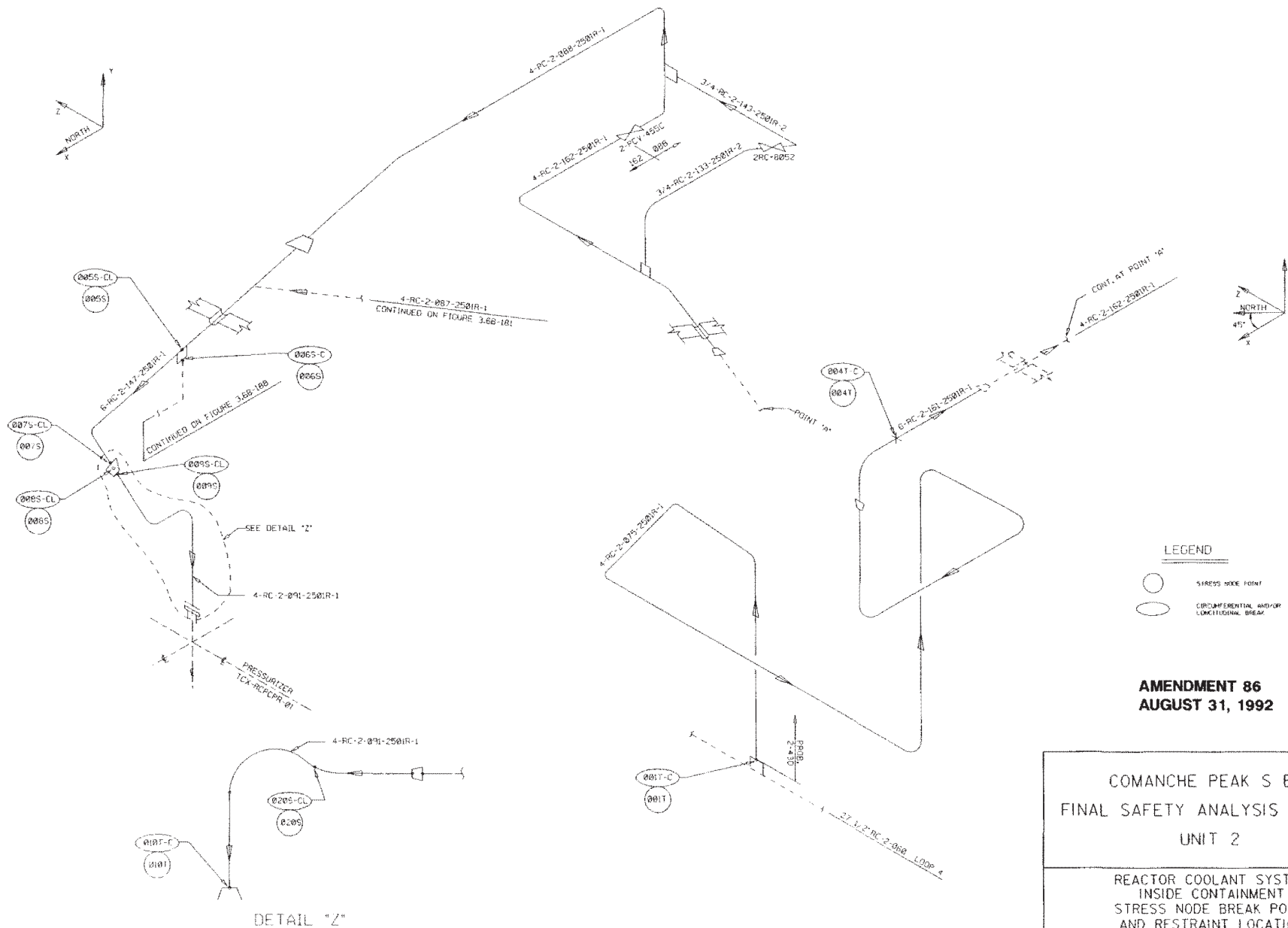
LEGEND

- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
 FINAL SAFETY ANALYSIS REPORT
 UNIT 2

REACTOR COOLANT SYSTEM
 INSIDE CONTAINMENT
 STRESS NODE BREAK POINT
 AND RESTRAINT LOCATION

FIGURE 3.6B-179 PR0B.2-53 SH 3 OF 3



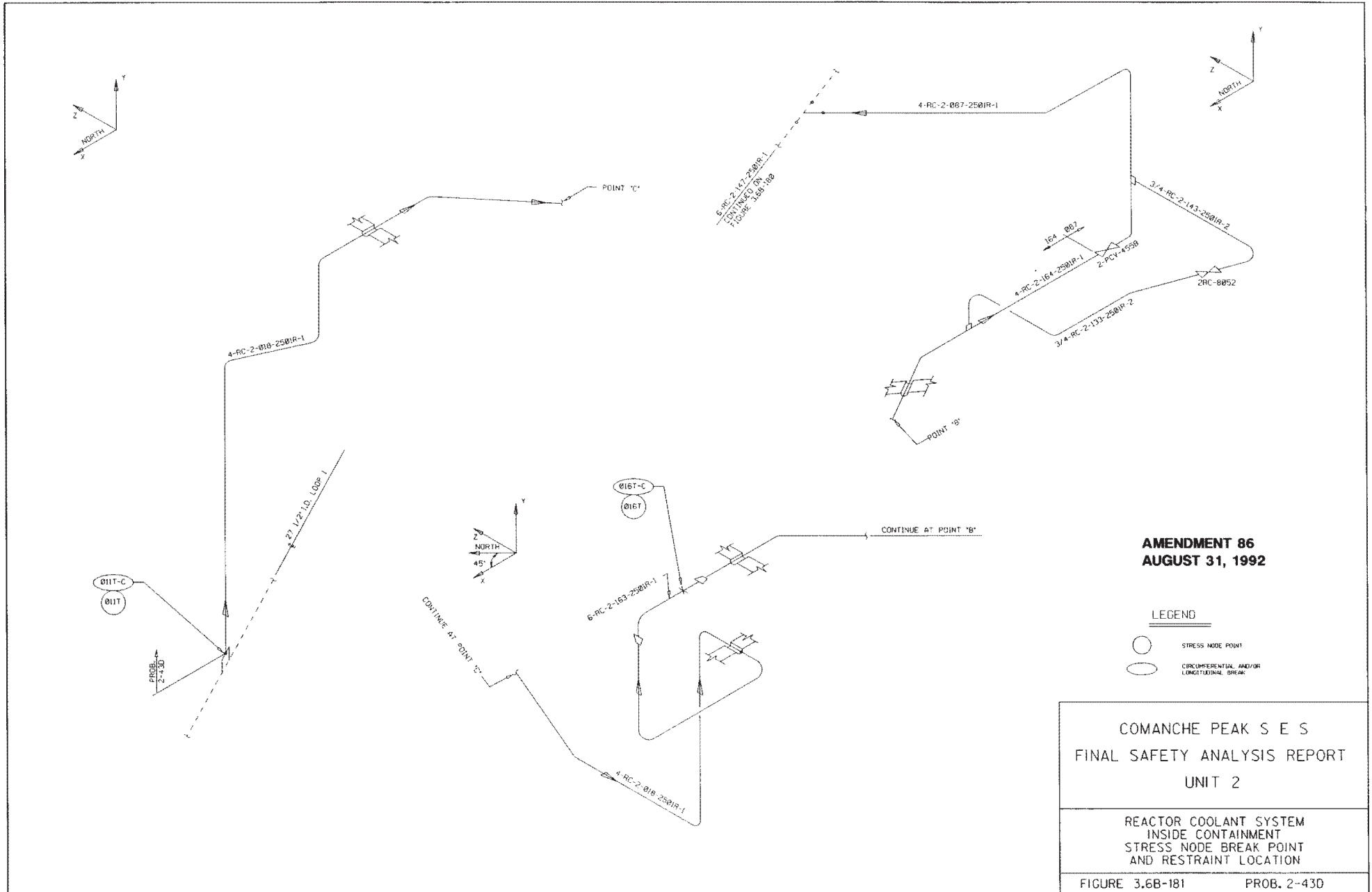
**AMENDMENT 86
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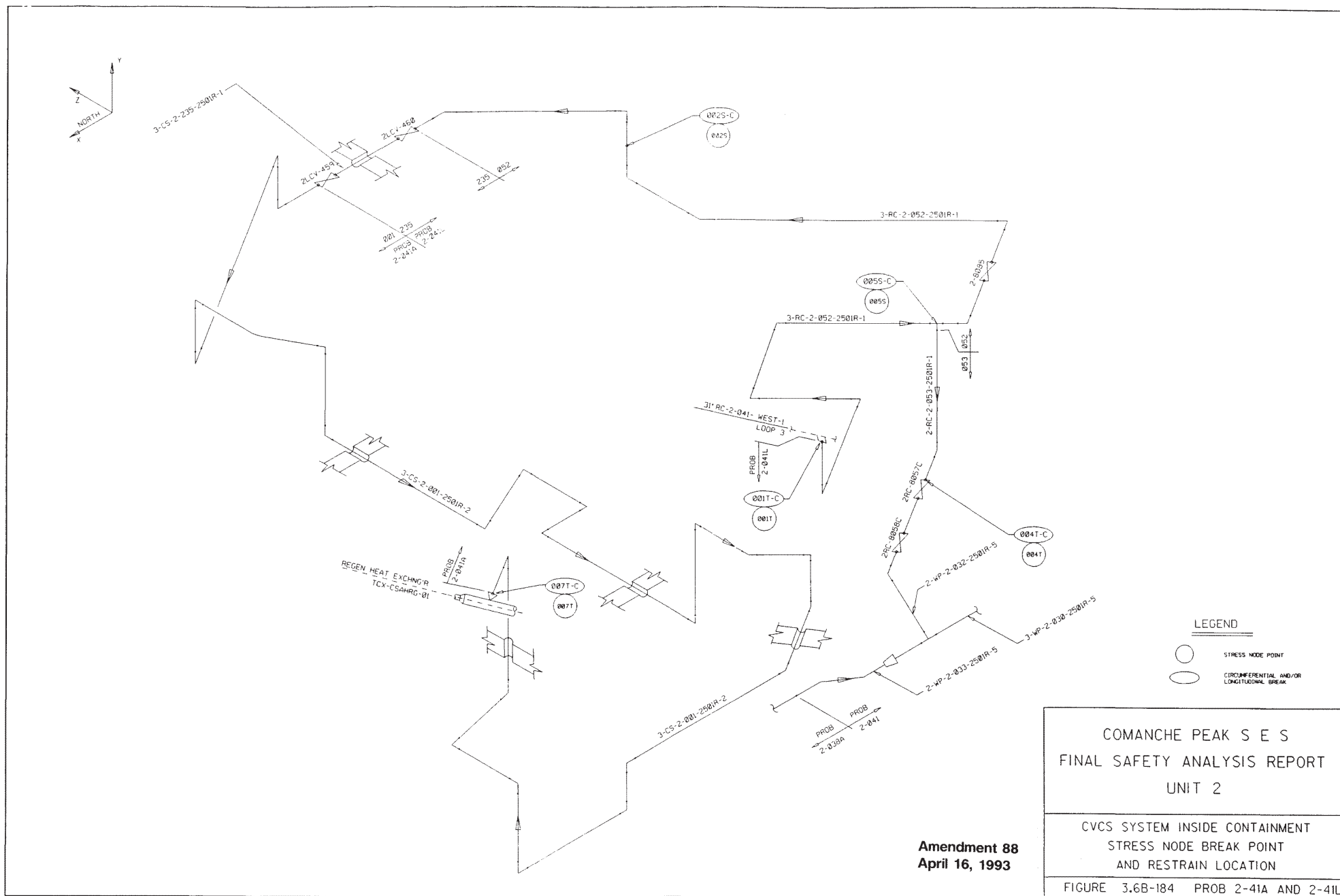
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

REACTOR COOLANT SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-180

PROB. 2-43D





CPSES / FSAR

**Figure 3.6B-186
(NOT USED)**

CPSES / FSAR

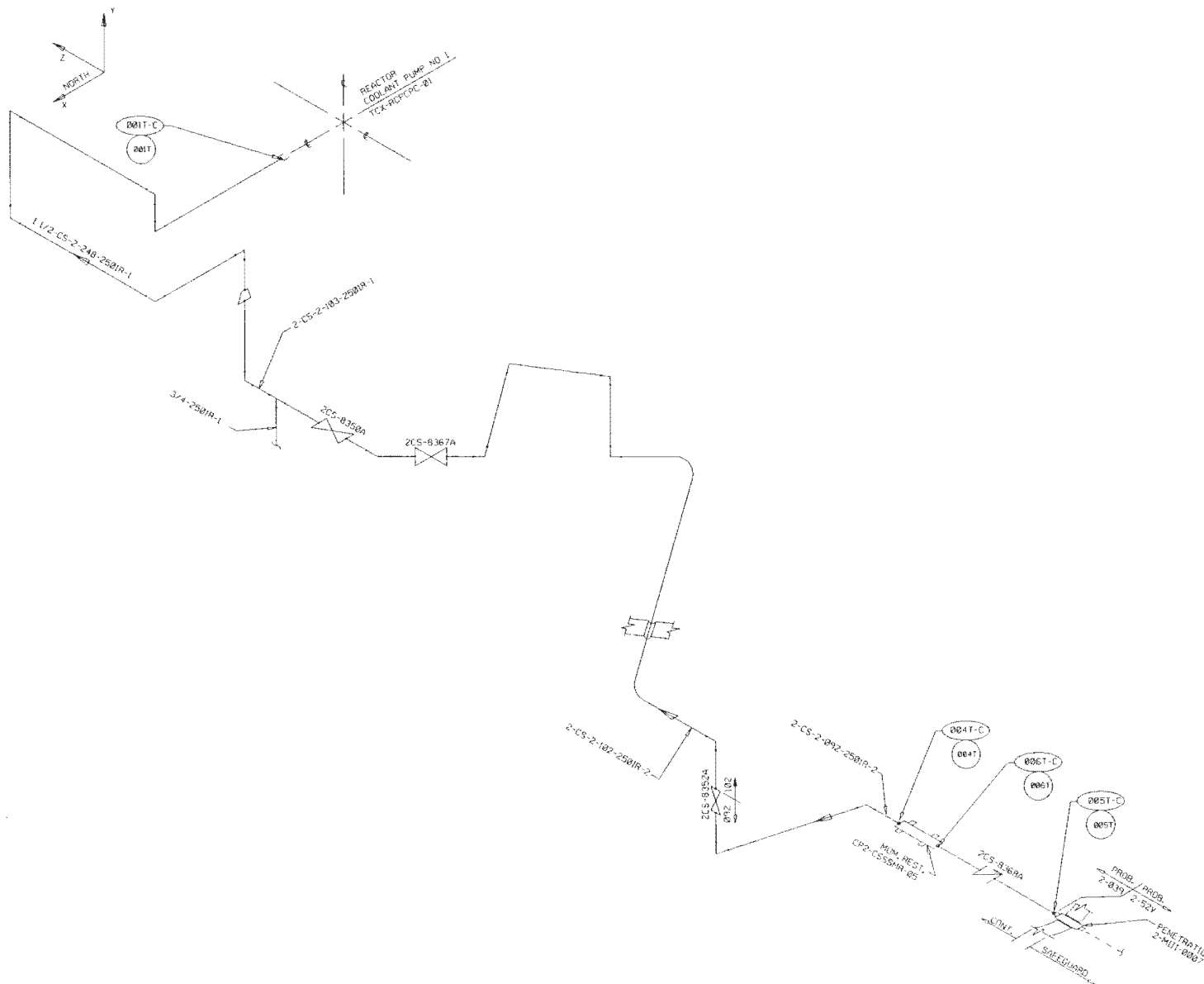
**Figure 3.6B-187
(NOT USED)**

CPSES / FSAR

**Figure 3.6B-190 thru 3.6B-191
(NOT USED)**



CPSES / FSAR

**Figure 3.6B-190 thru 3.6B-191
(NOT USED)**



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LEGEND

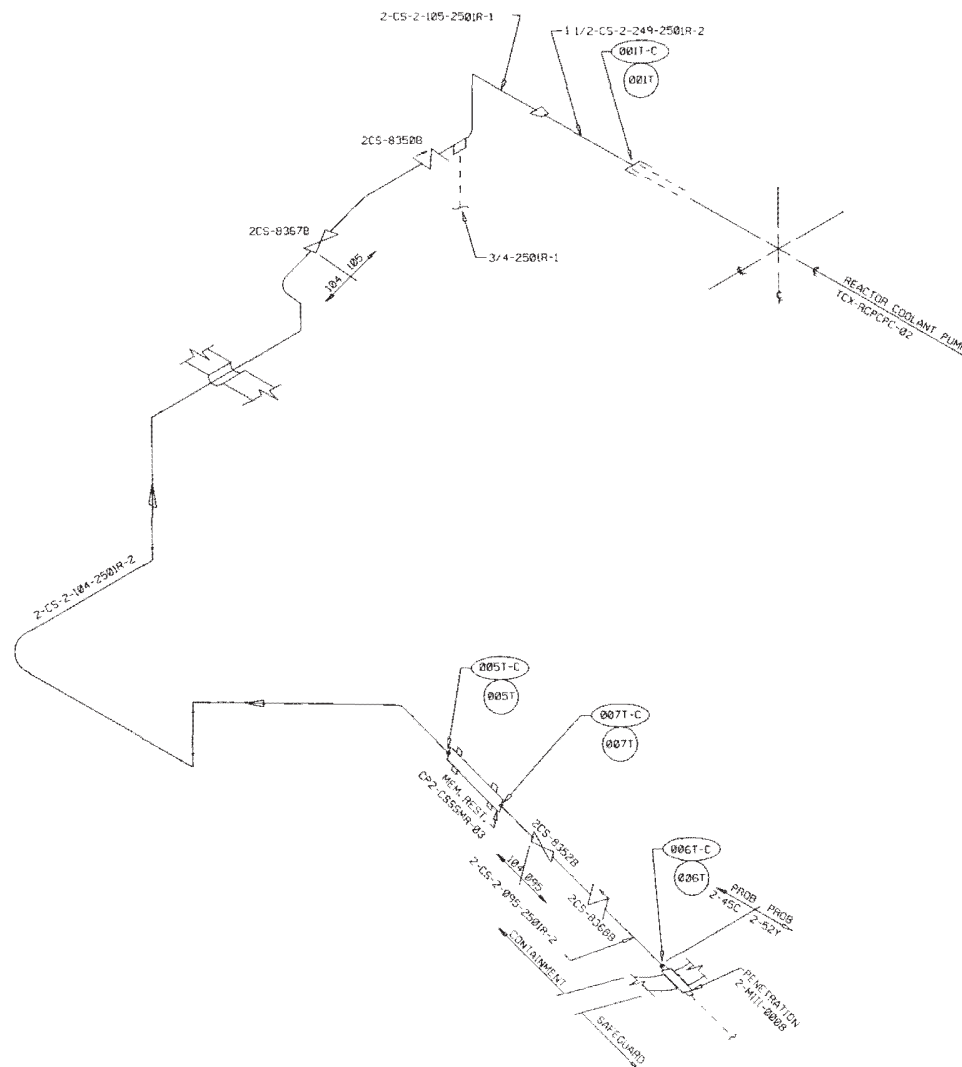
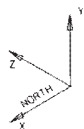
-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

**COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2**

**CVCS SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION**

FIGURE 3.6B-192

PROB 2-39



LEGEND

- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

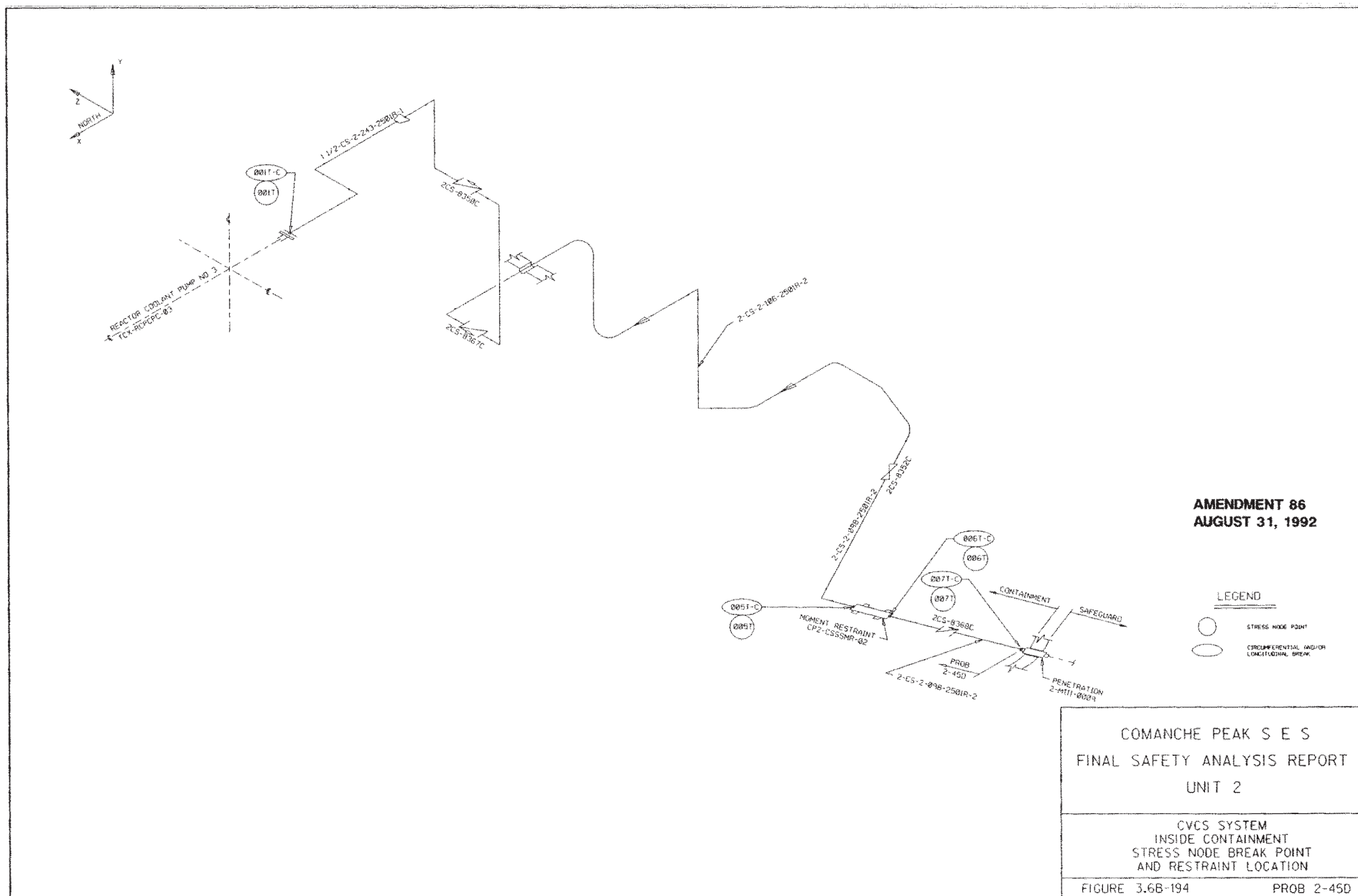
AMENDMENT 86
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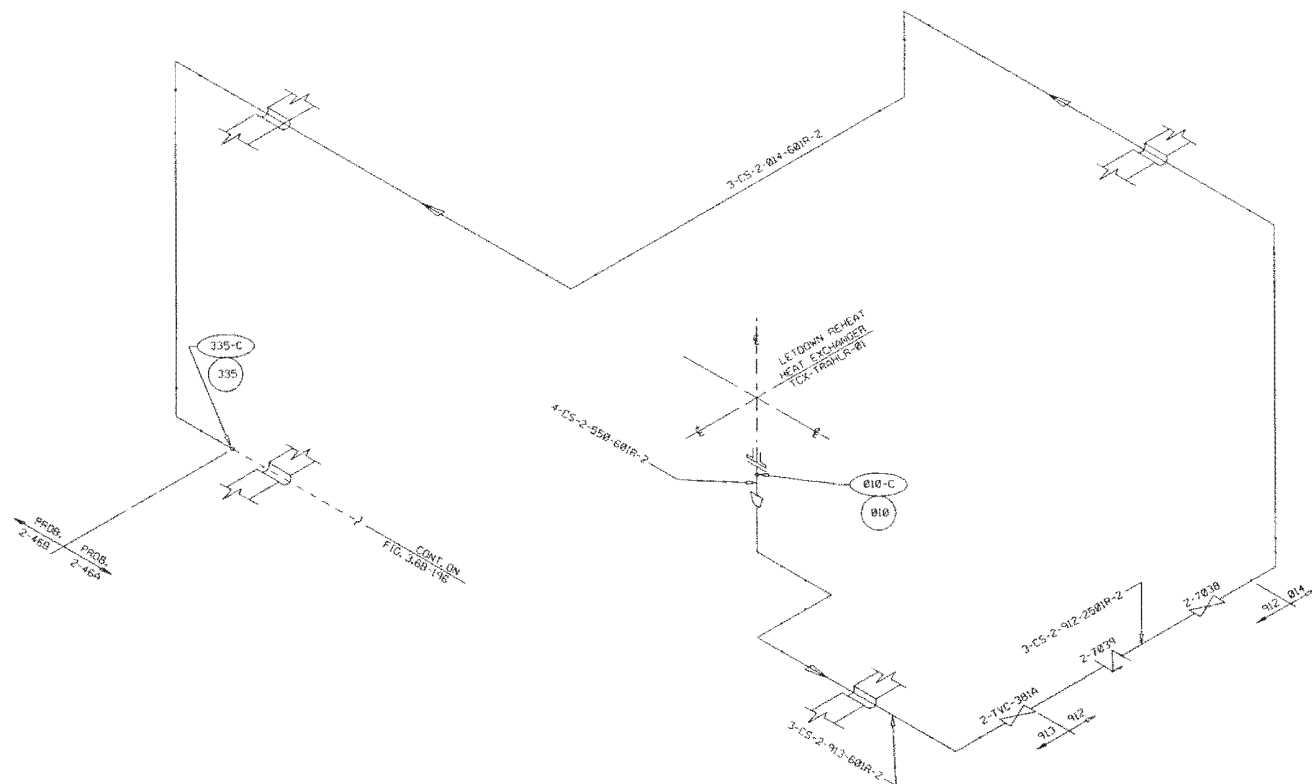
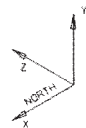
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

CVCS SYSTEM
INSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-193

PROB 2-45C





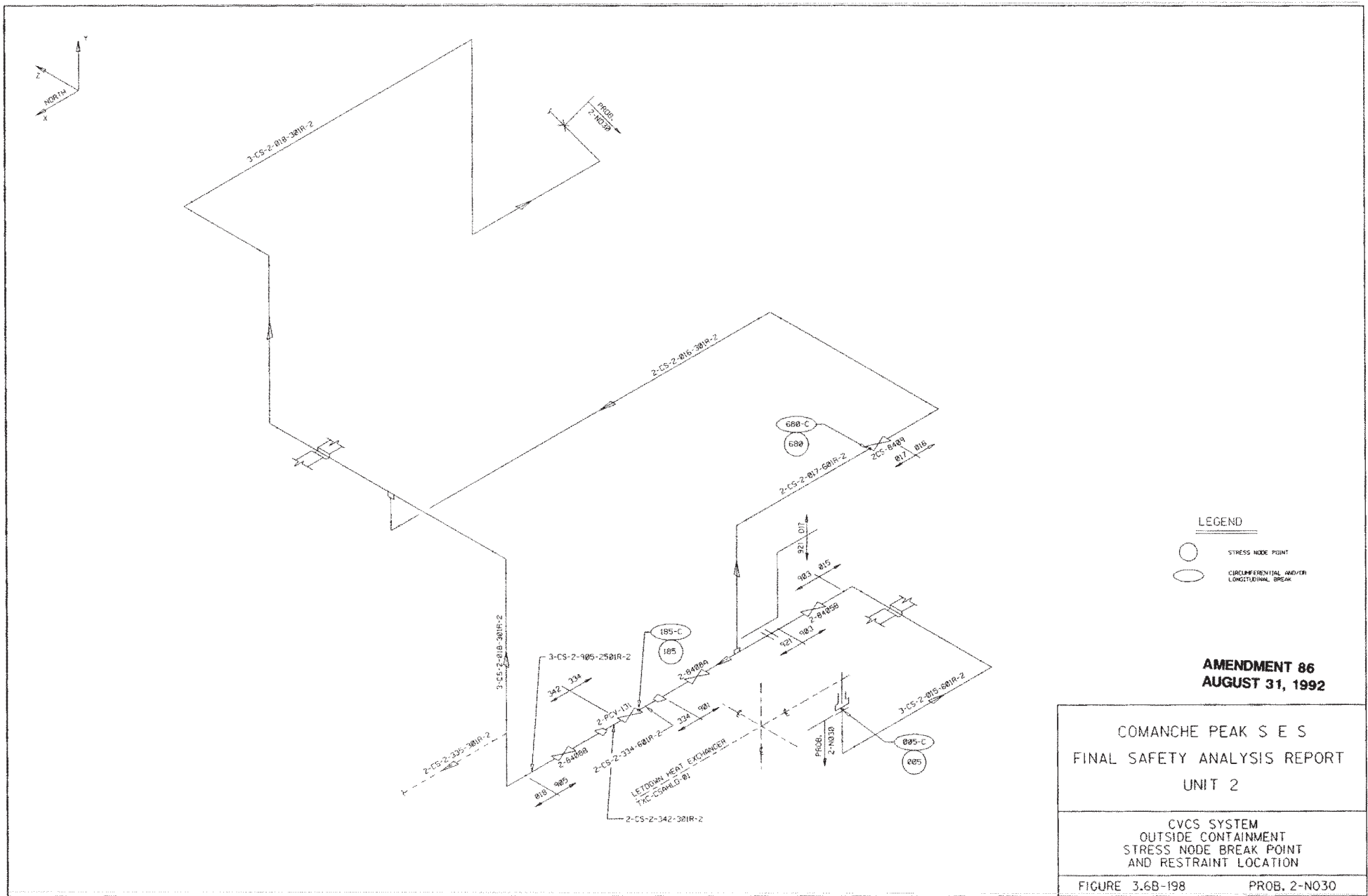
**AMENDMENT 86
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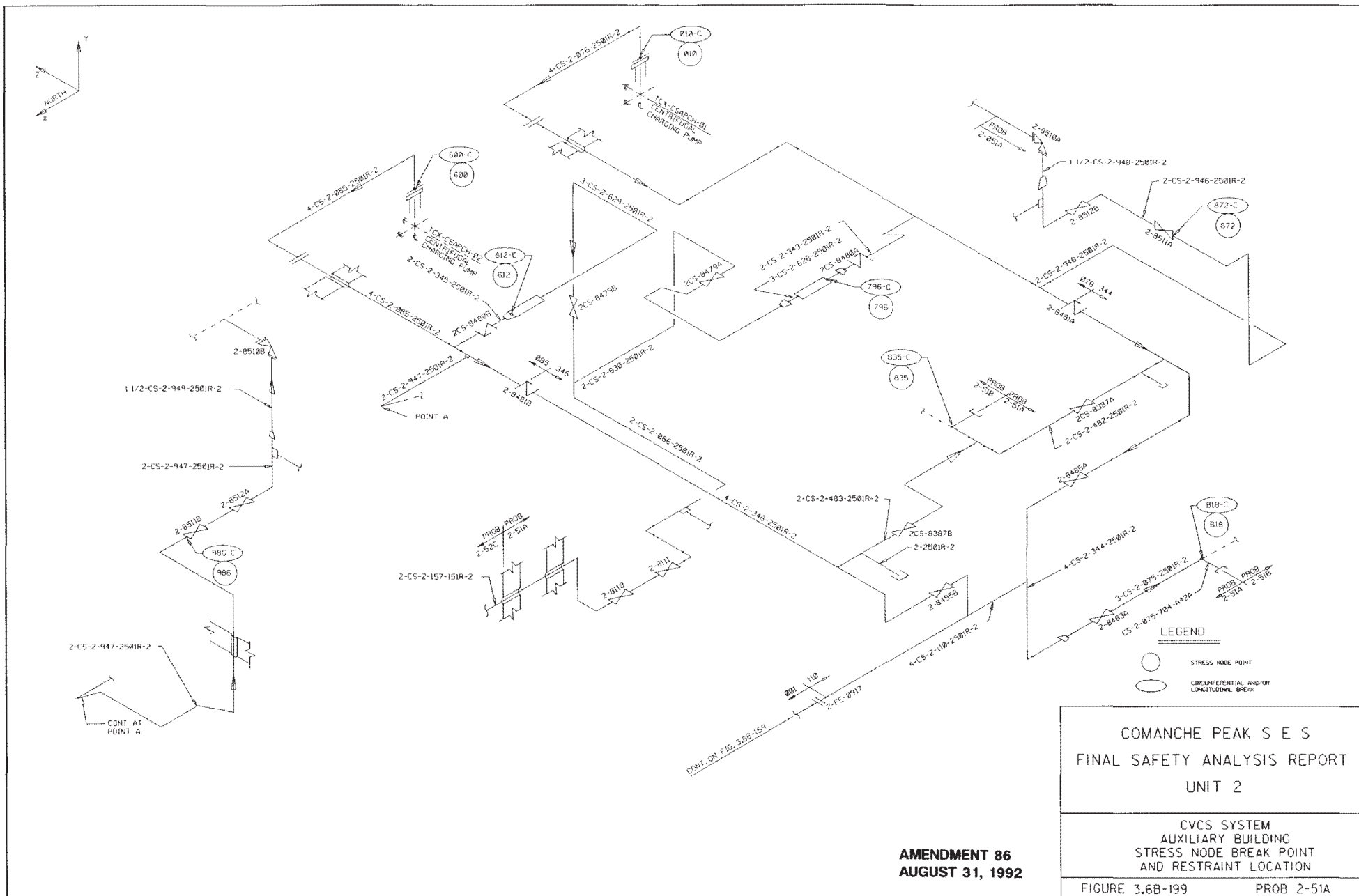
LEGEND
○ STRESS NODE POINT
○ CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

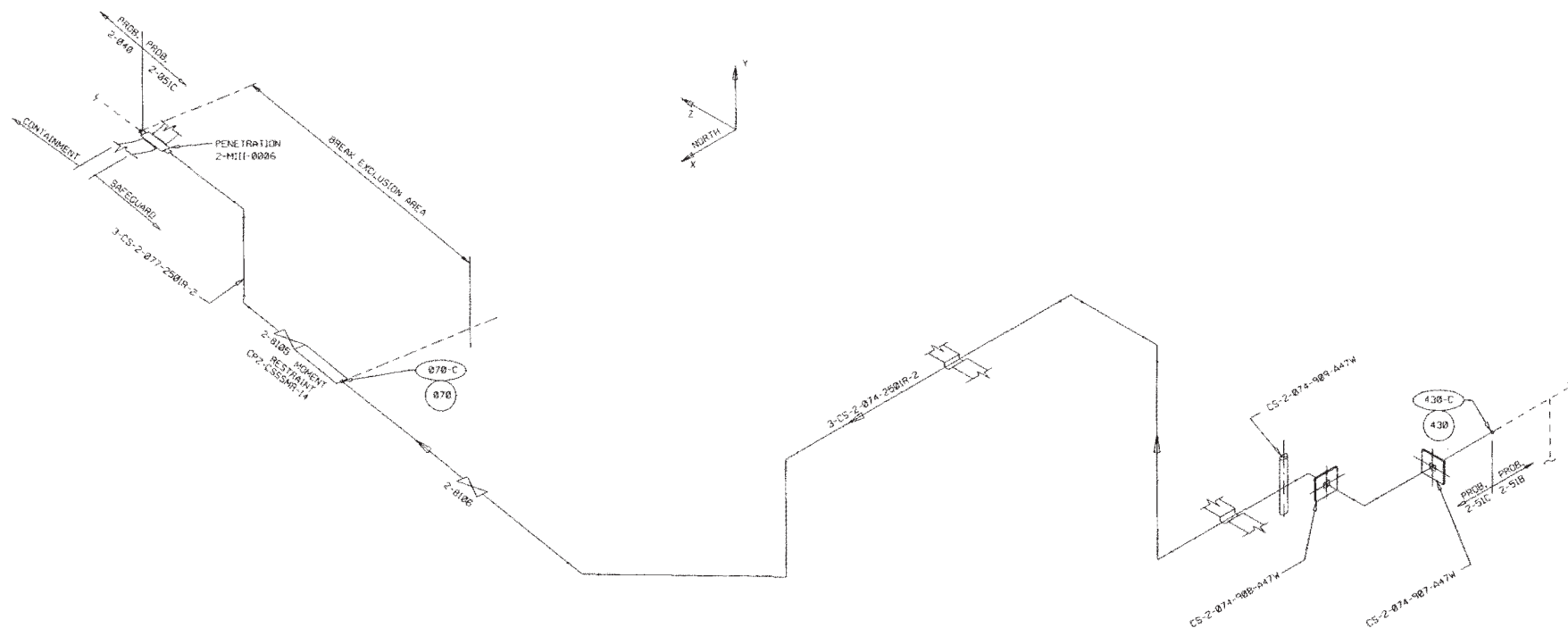
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

CVCS SYSTEM OUTSIDE CONTAINMENT
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION





FIGURE 3.6B-197 PROB. 2-46B







LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK
-  BUMPER RESTRAINT
-  HARD RESTRAINT

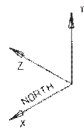
COMANCHE PEAK S E S FINAL SAFETY ANALYSIS REPORT UNIT 2

CVCS SYSTEM
AUX. BUILDING
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

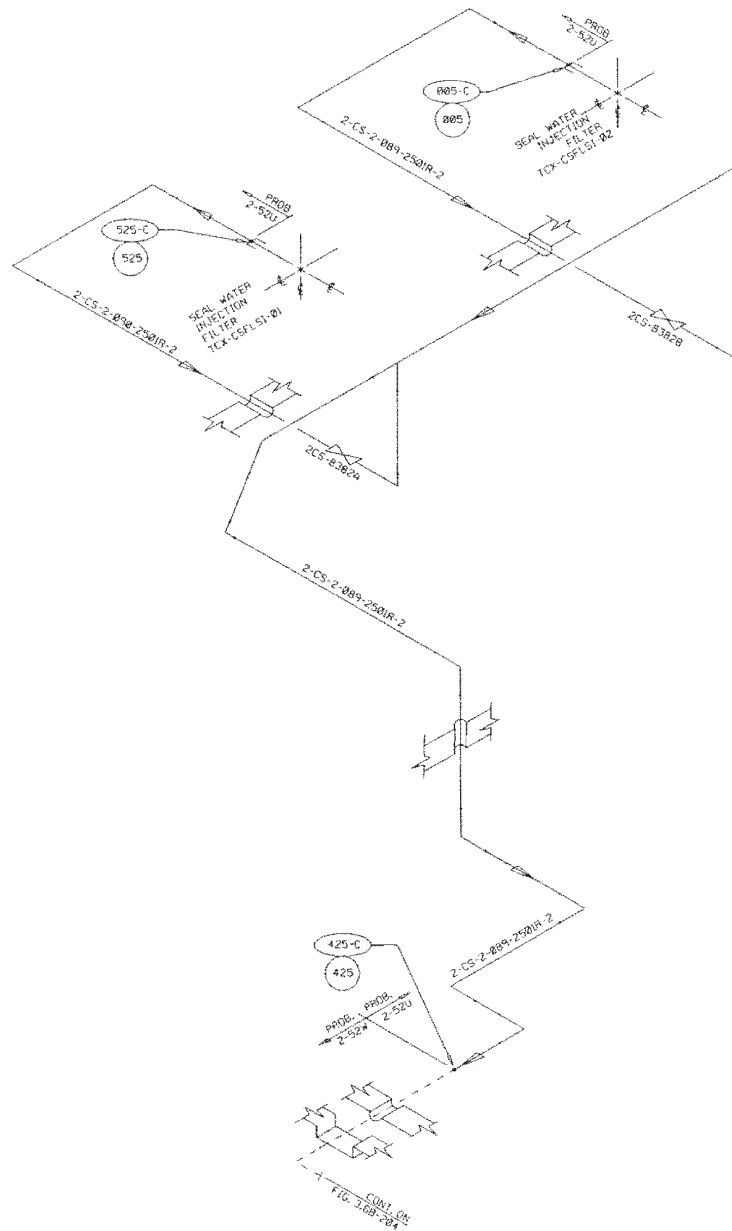
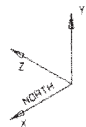
FIGURE 3.6B-201

PROB. 2-51C

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PROB. 2-51D



**AMENDMENT 86
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LEGEND

-  STRESS NODE POINT
-  CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

CVCS SYSTEM
AUX. BUILDING
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-203

PROB. 2-52U

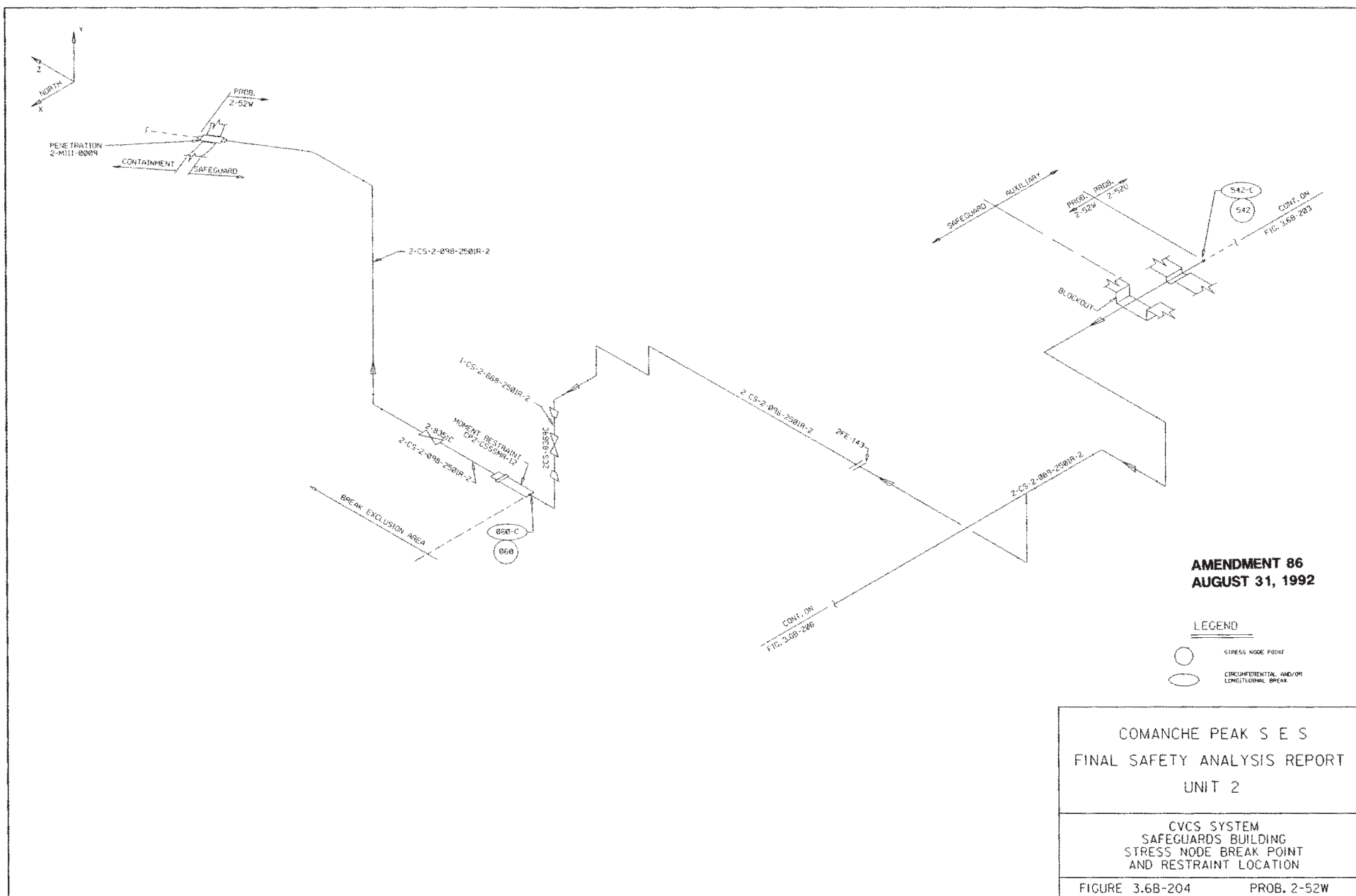


FIG204000.B11

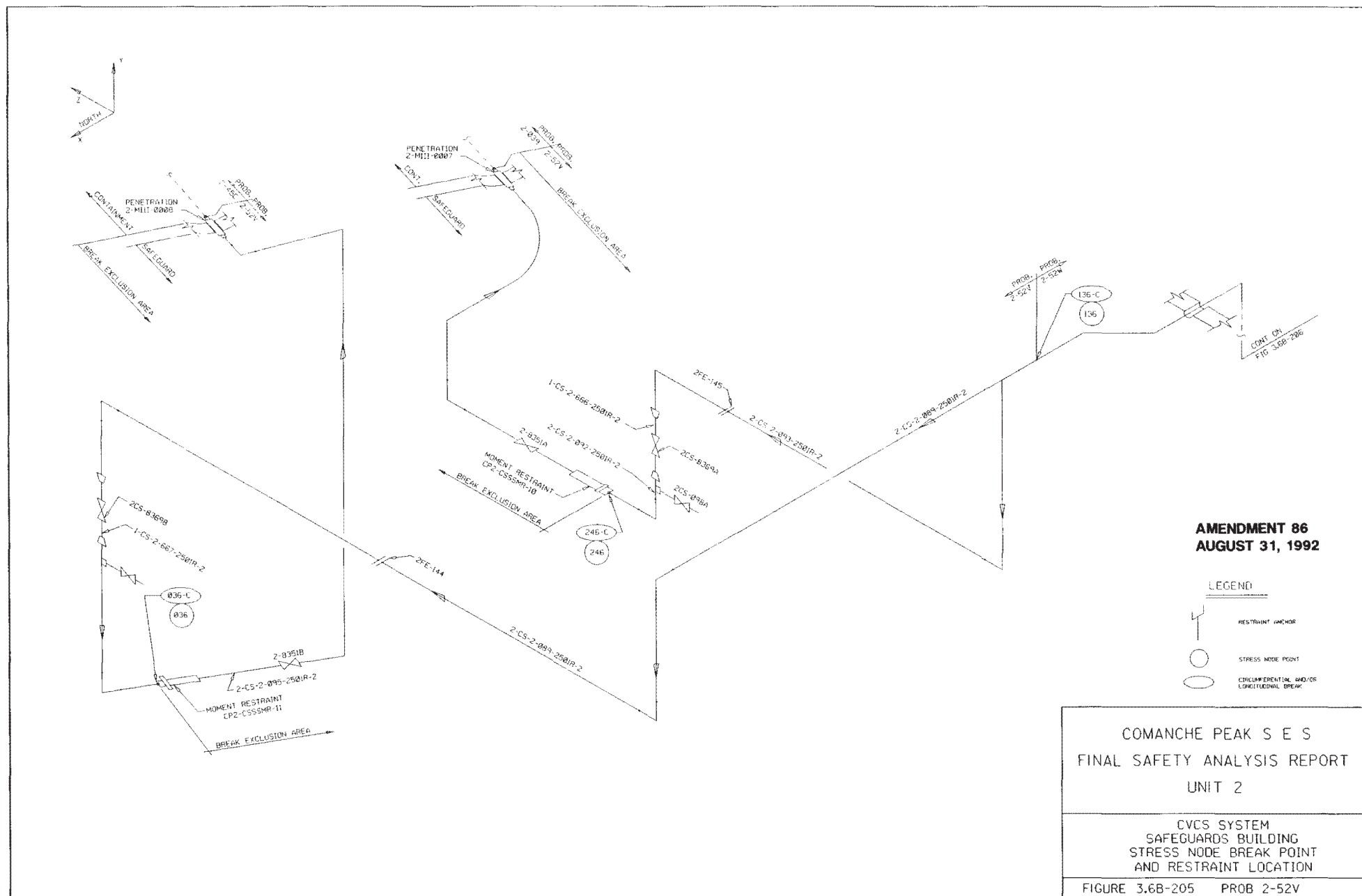
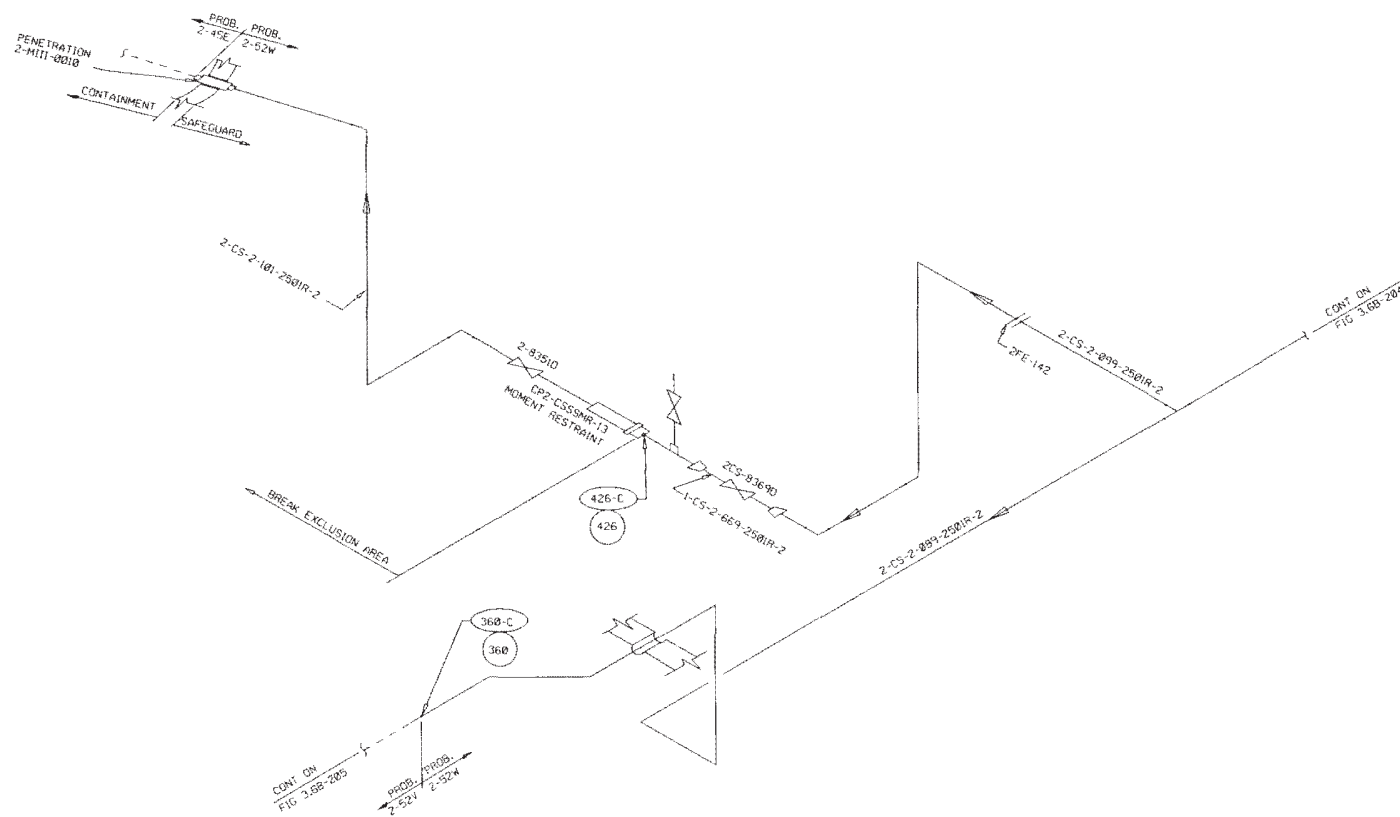
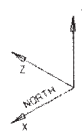


FIG205000.BLI



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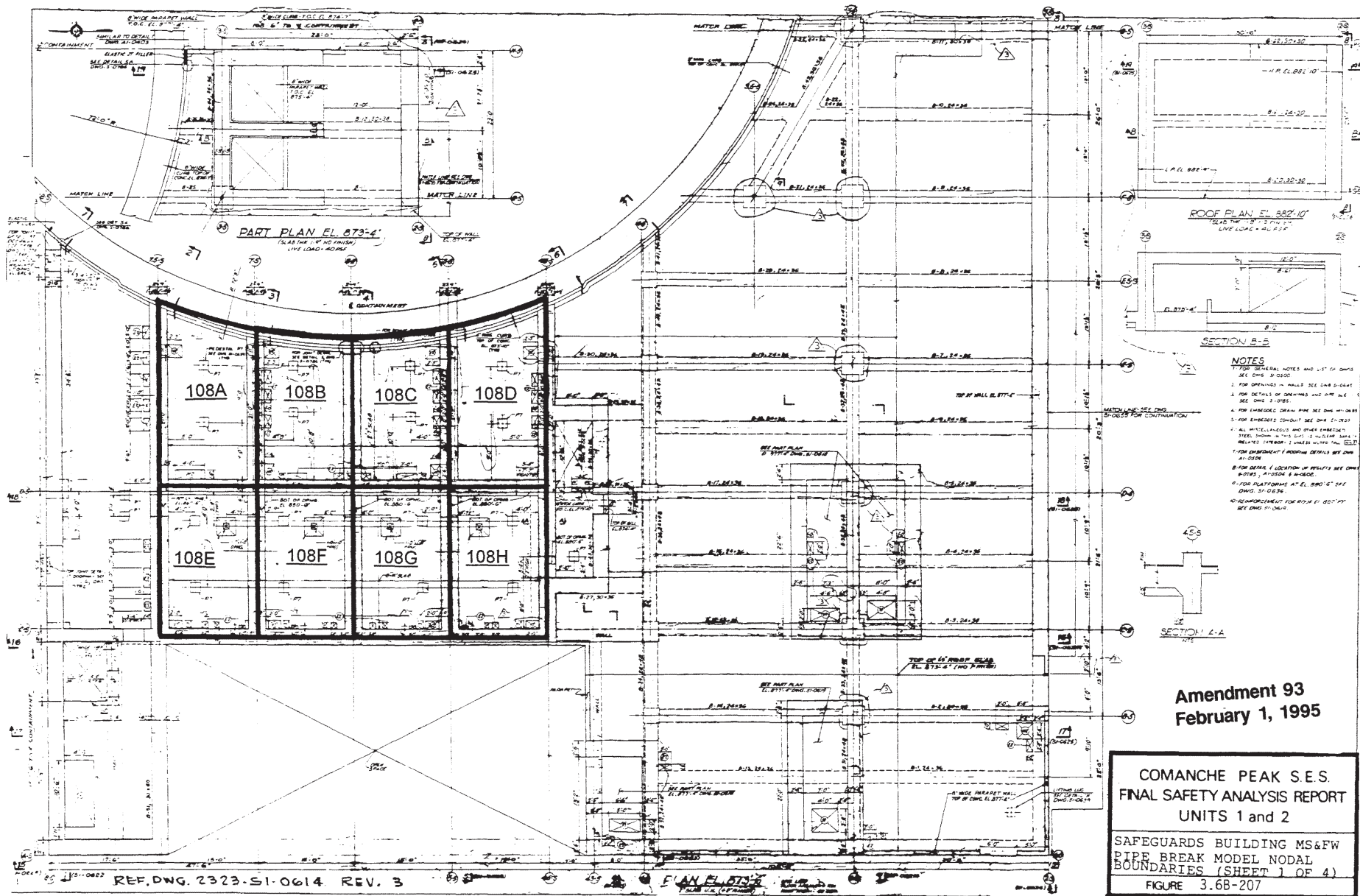
LEGEND

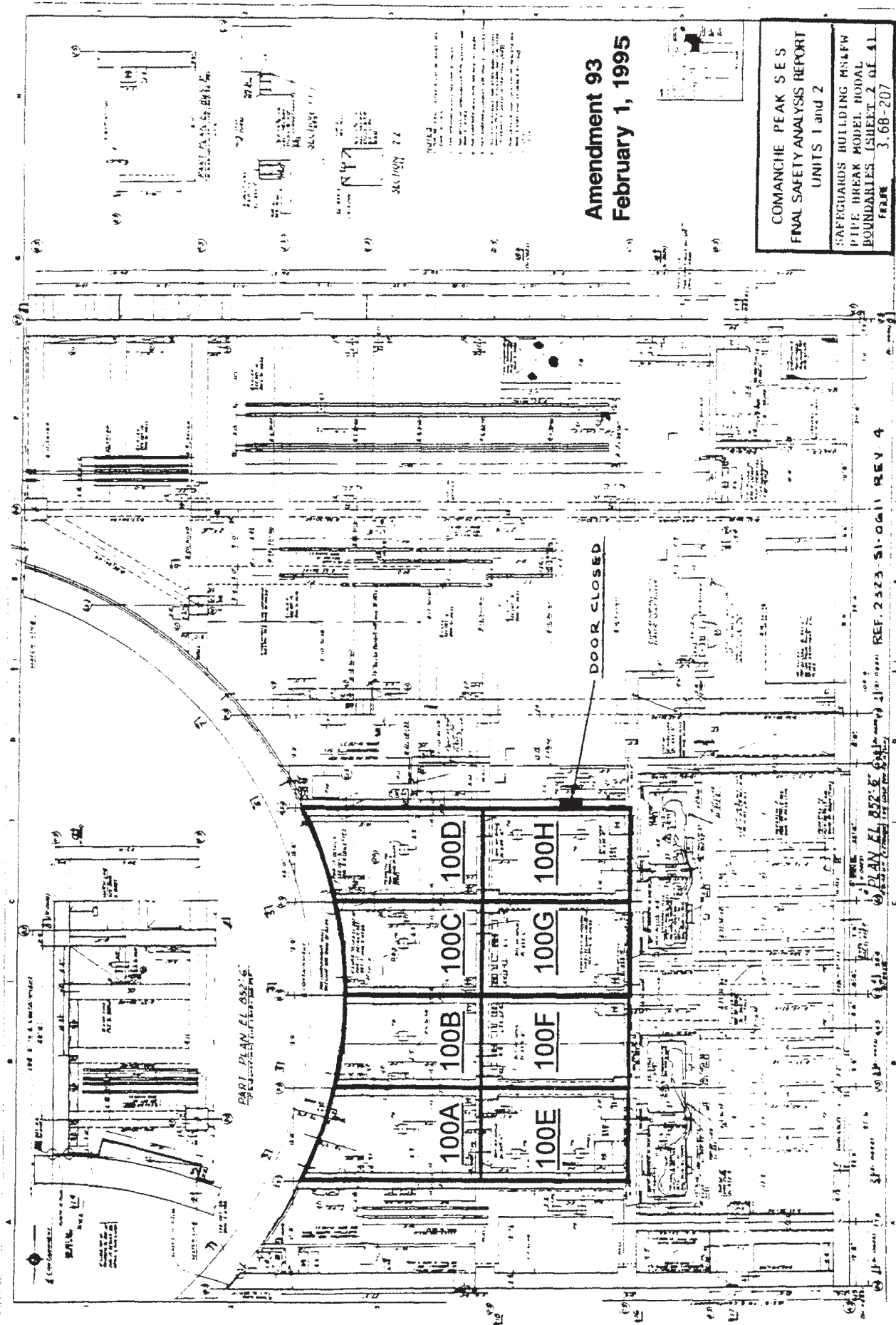
- STRESS NODE POINT
- CIRCUMFERENTIAL AND/OR LONGITUDINAL BREAK

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNIT 2

CVCS SYSTEM
SAFEGUARDS BUILDING
STRESS NODE BREAK POINT
AND RESTRAINT LOCATION

FIGURE 3.6B-206 PROB 2-52W





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COMANCHE PEAK S E S
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UNITS 1 and 2
SAFEGUARDS BUILDING MS&FW
PIPE BREAK MODEL HOODAL
BOUNDARIES (SHEET 2 OF 41)
PAGE 3.68-207

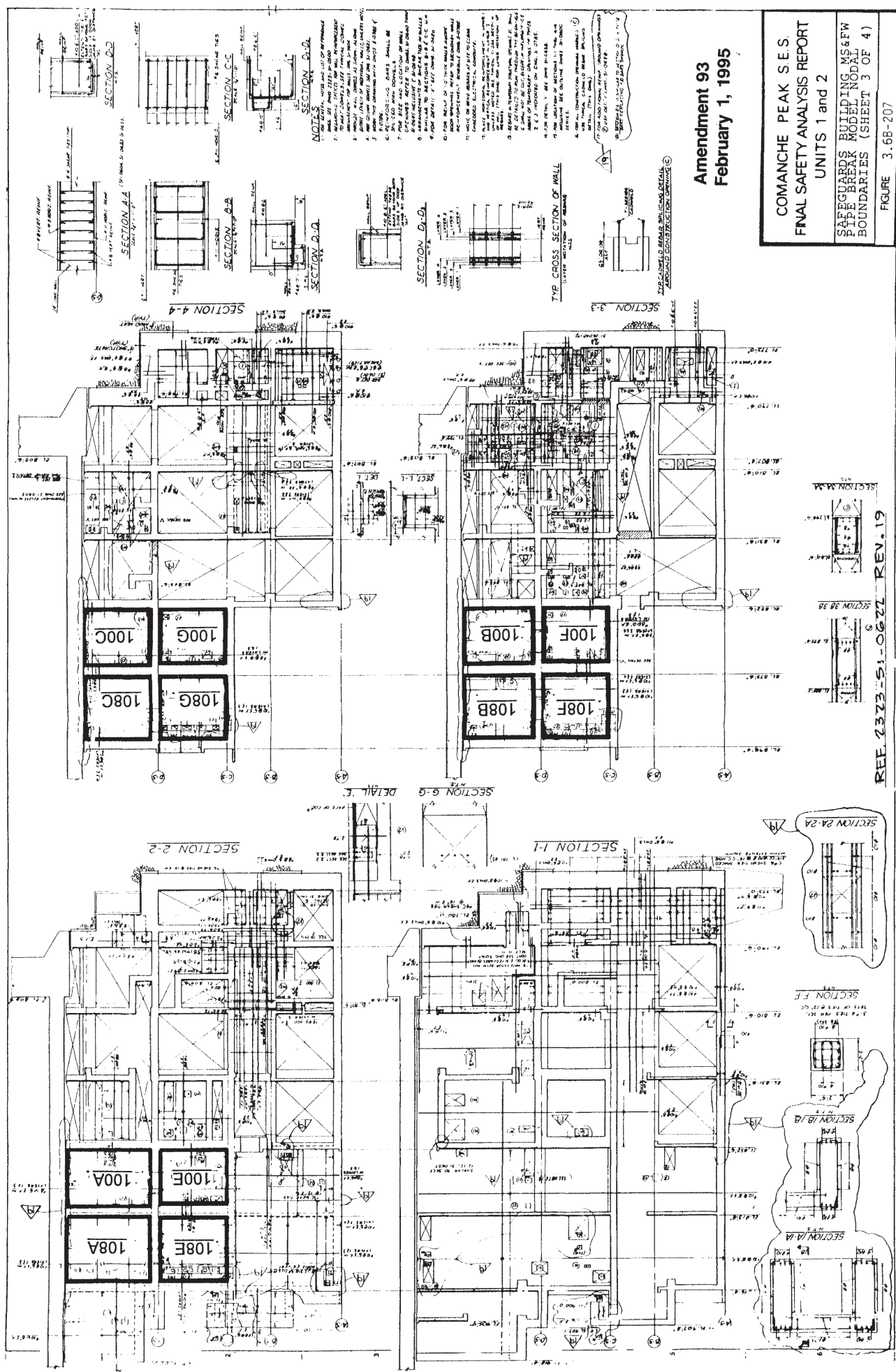
PART PLAN EL 852.6

PLAN EL 852.6
REF. 2323-SI-0611 REV 4

Amendment 93
February 1, 1995

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2
SAFE GUARDS BUILDING MS&FW
PIPE BREAK MODEL NODAL
BOUNDARIES (SHEET 3 OF 4)

FIGURE 3.68-207

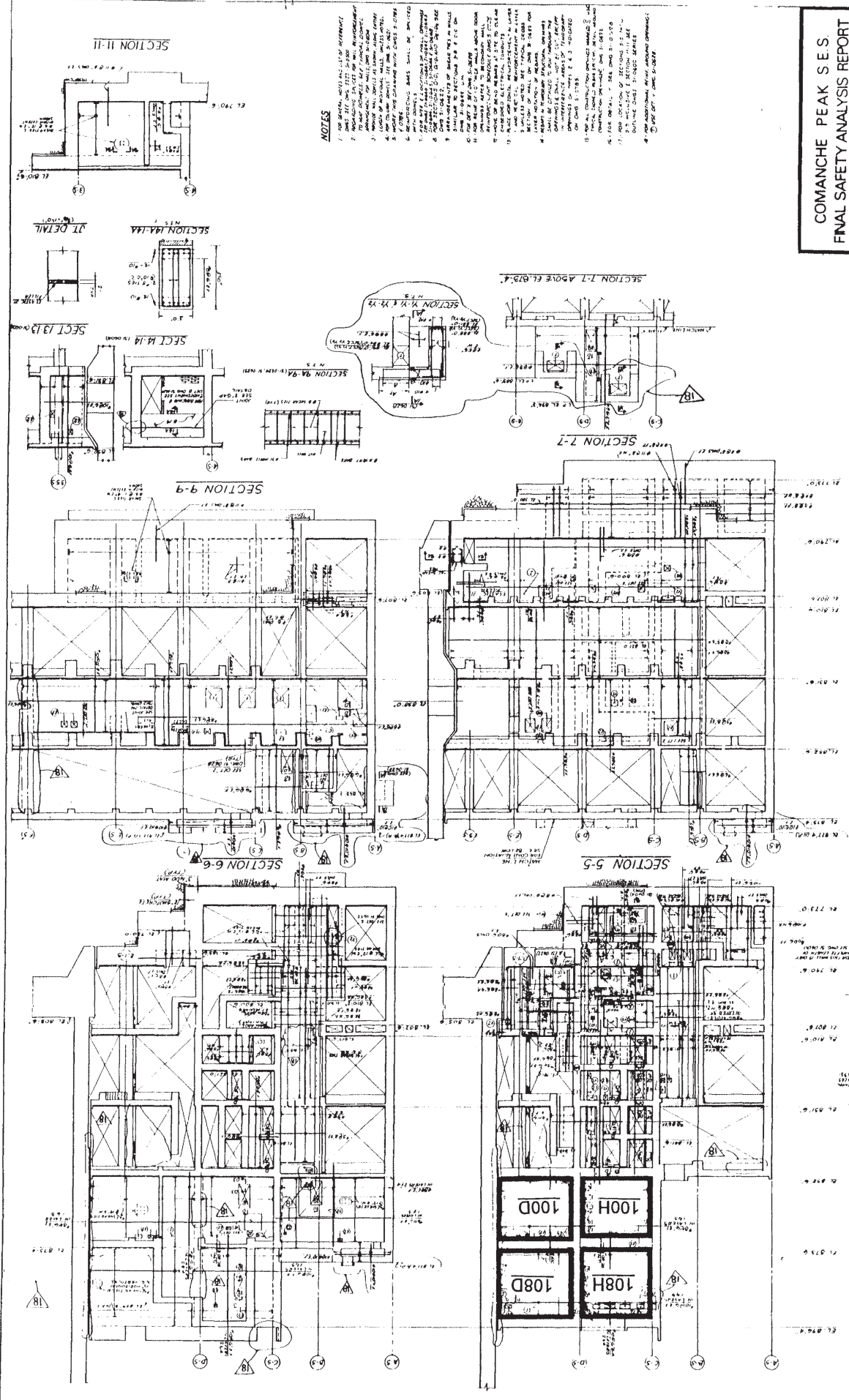


REF. 2323-51-0622 REV. 19

COMANCHE PEAK S.E.S.
 FINAL SAFETY ANALYSIS REPORT
 UNITS 1 and 2
 SAFEGUARDS BUILDING MS&FW
 PIPE BREAK MODEL NODAL
 BOUNDARIES (SHEET 4 of 4)
 FIGURE 3.6B-207

Amendment 93
 February 1, 1995

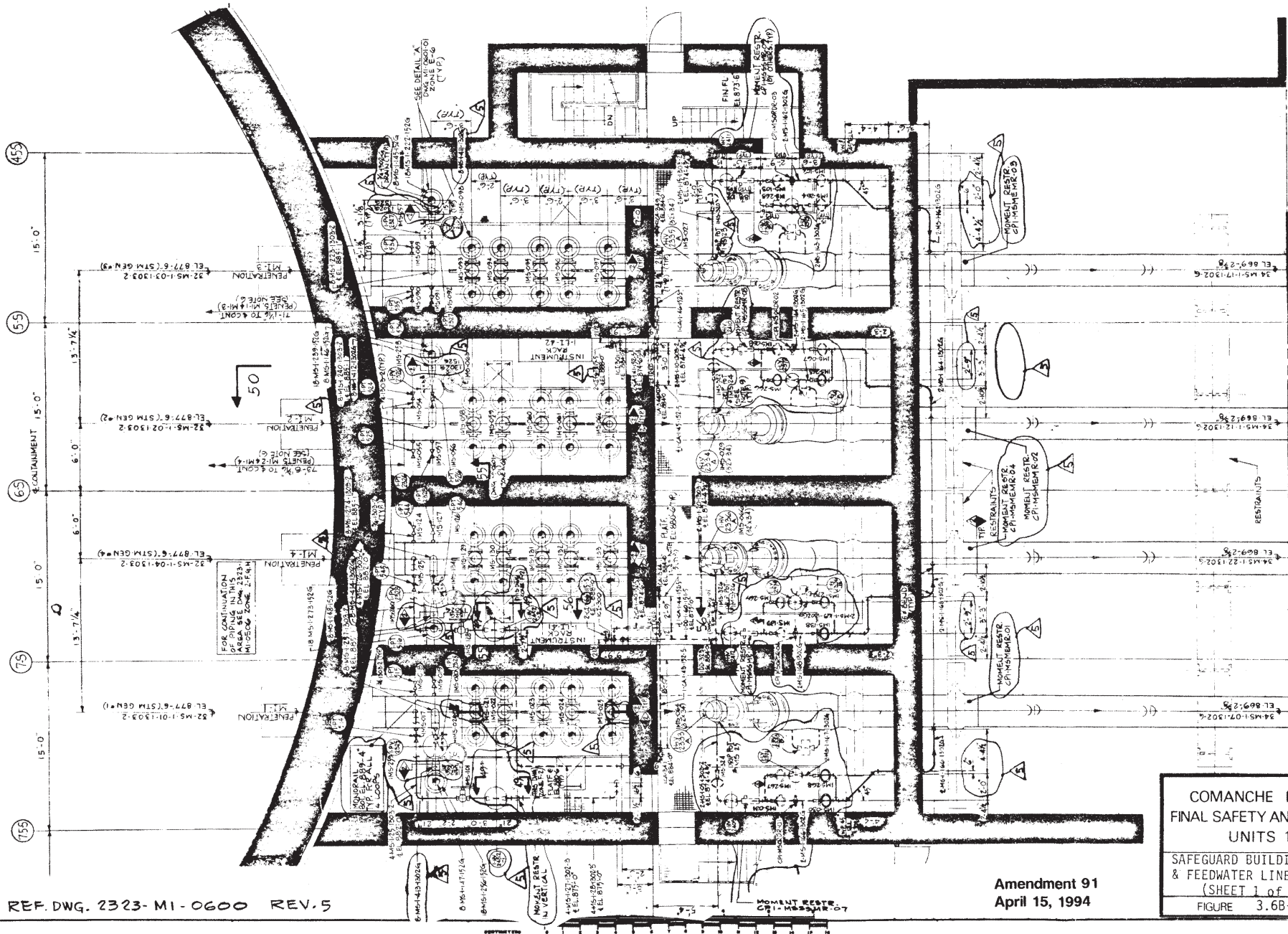
REF. 2223-S1-0623 REV.10



NOTES

1. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
2. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
3. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
4. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
5. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
6. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
7. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
8. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
9. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
10. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
11. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
12. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
13. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
14. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
15. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
16. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
17. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.
18. THE SAFEGUARDS BUILDING IS A 10-STOREY BUILDING WITH A TOTAL HEIGHT OF 100.0 METRES.

REF. DWG. 2323-MI-0600 REV.5



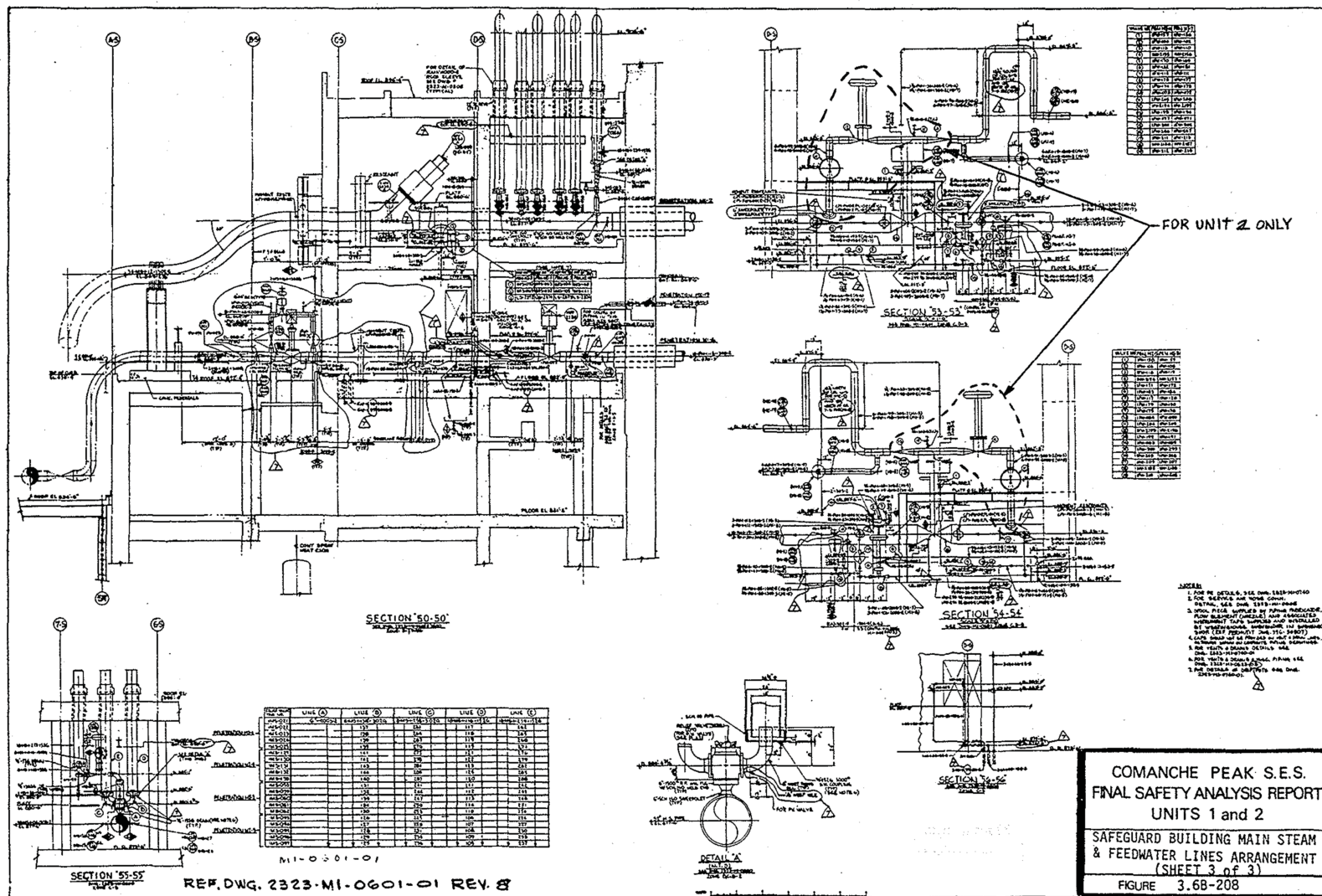
Amendment 91
April 15, 1994

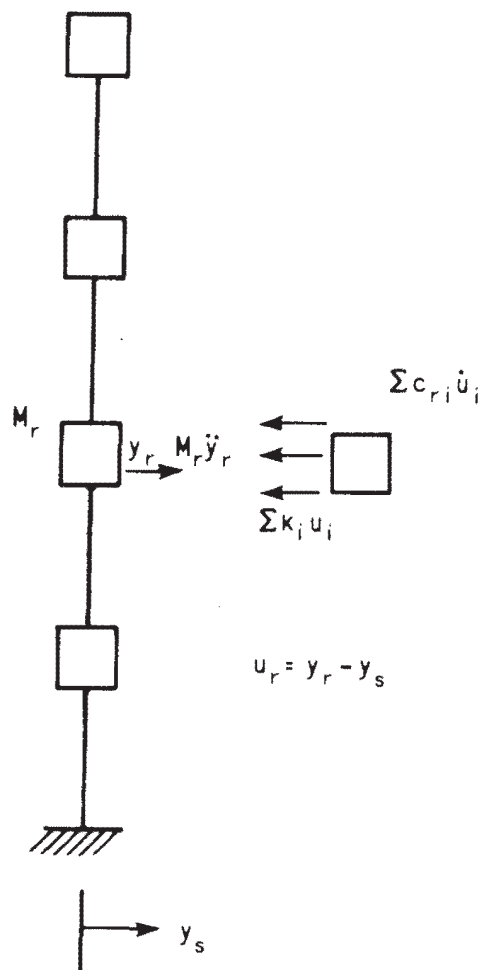
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FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2
SAFEGUARD BUILDING MAIN STEAM
& FEEDWATER LINES ARRANGEMENT
(SHEET 1 of 3)
FIGURE 3.6B-208

MATCH LINE FOR CONTINUATION SEE DWG 2323-MI-0430 ZONE 1-B-C-D

FIGURE 3.6B-208



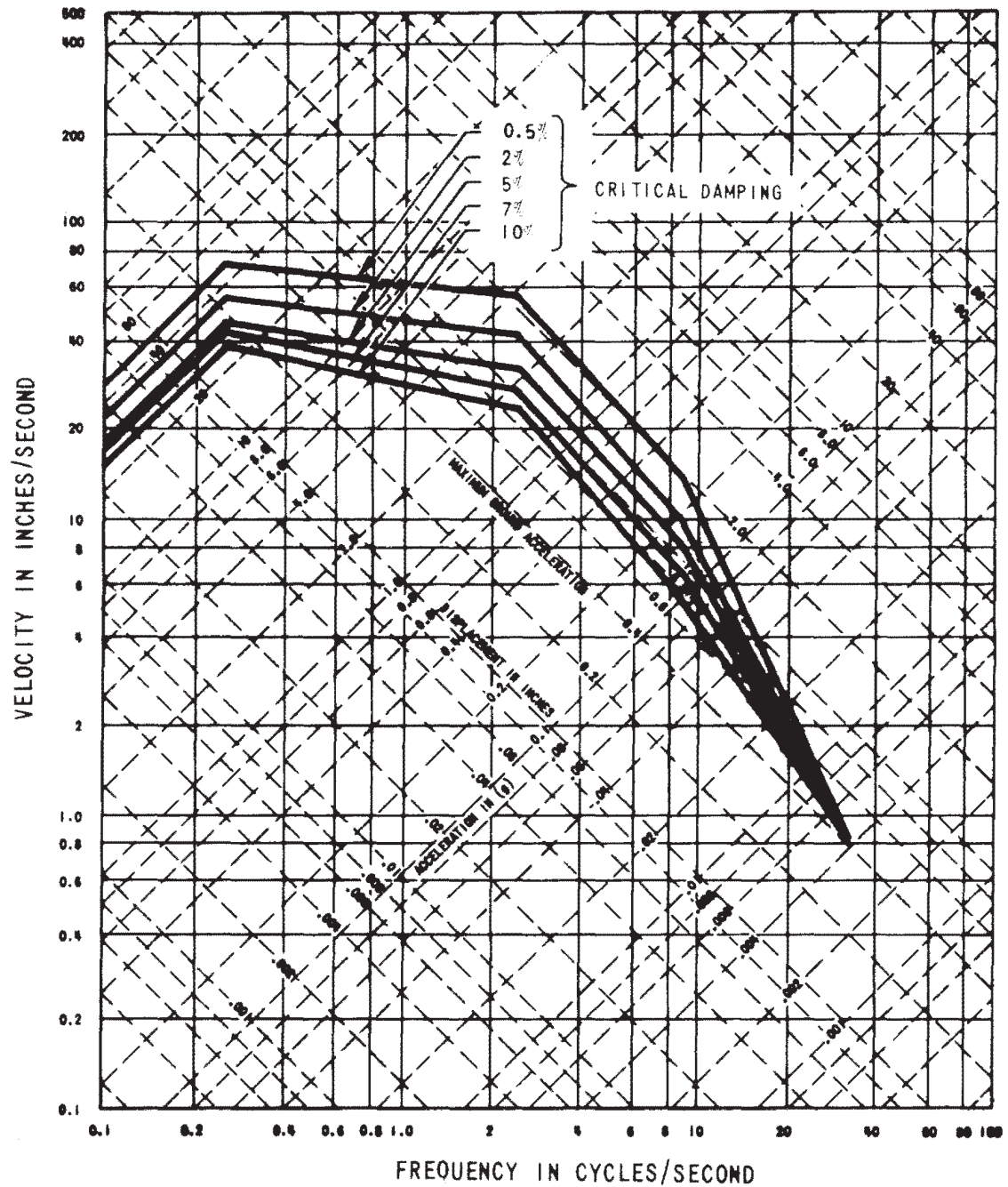




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UNITS 1 and 2

Multi-Degree of Freedom
System

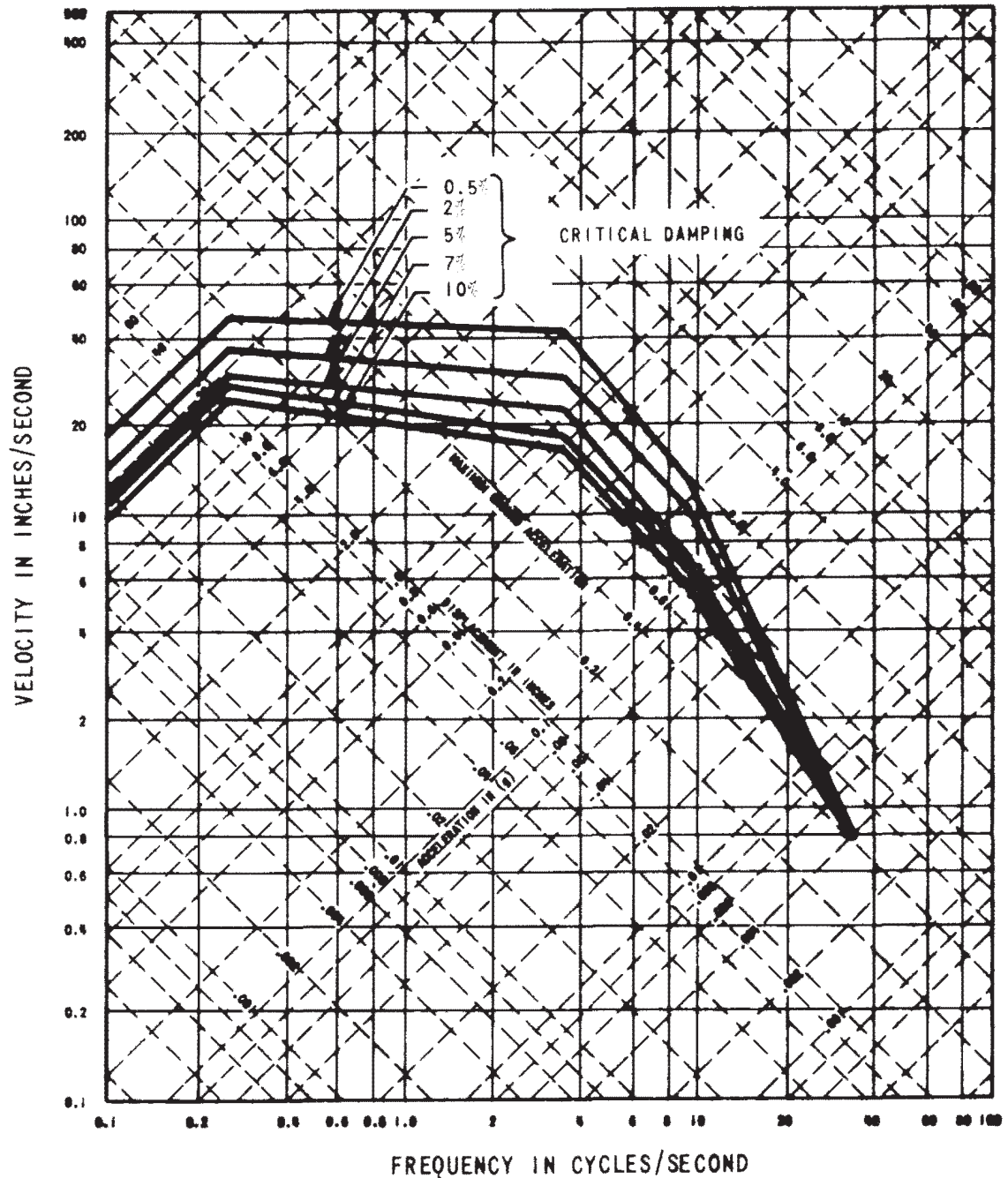
FIGURE 3.7N-1



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Horizontal Design Response
Spectra-Scaled to 0.4g
Horizontal Ground Acceleration

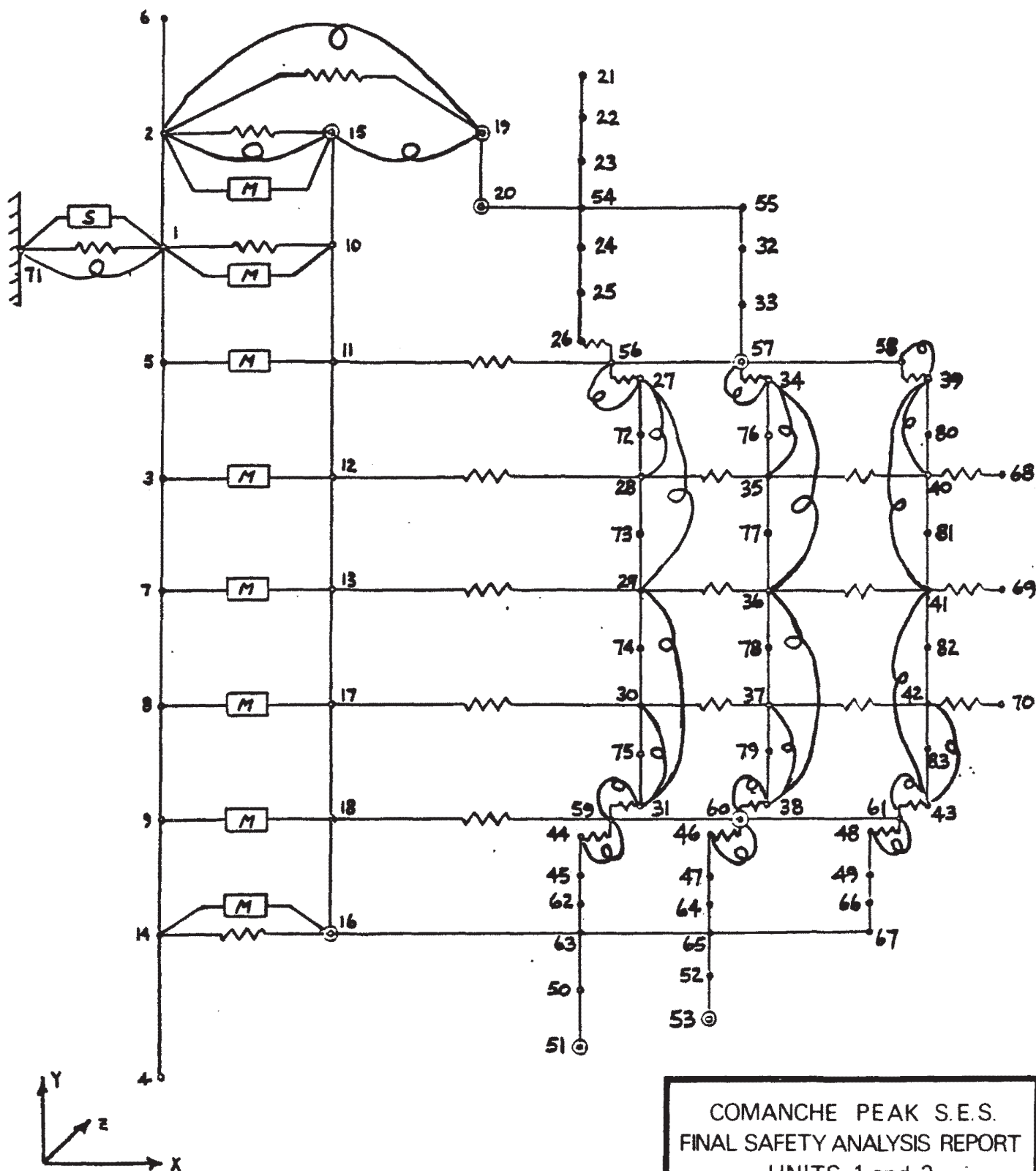
FIGURE 3.711-2



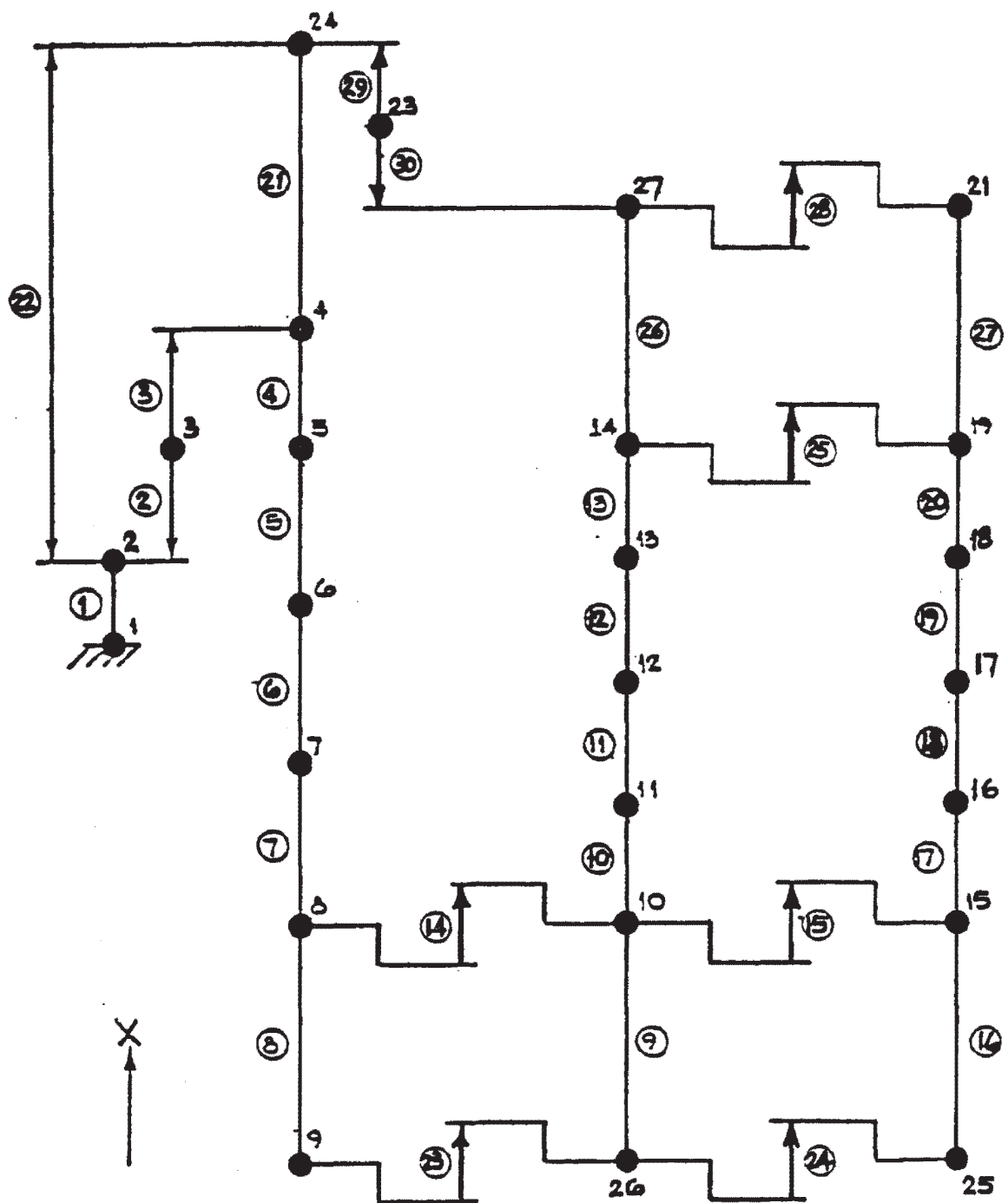
COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

Vertical Design Response
Spectra-Scaled to 0.4g
Horizontal Ground Acceleration

FIGURE 3.7N-3



AMENDMENT 20
MAY 7, 1981

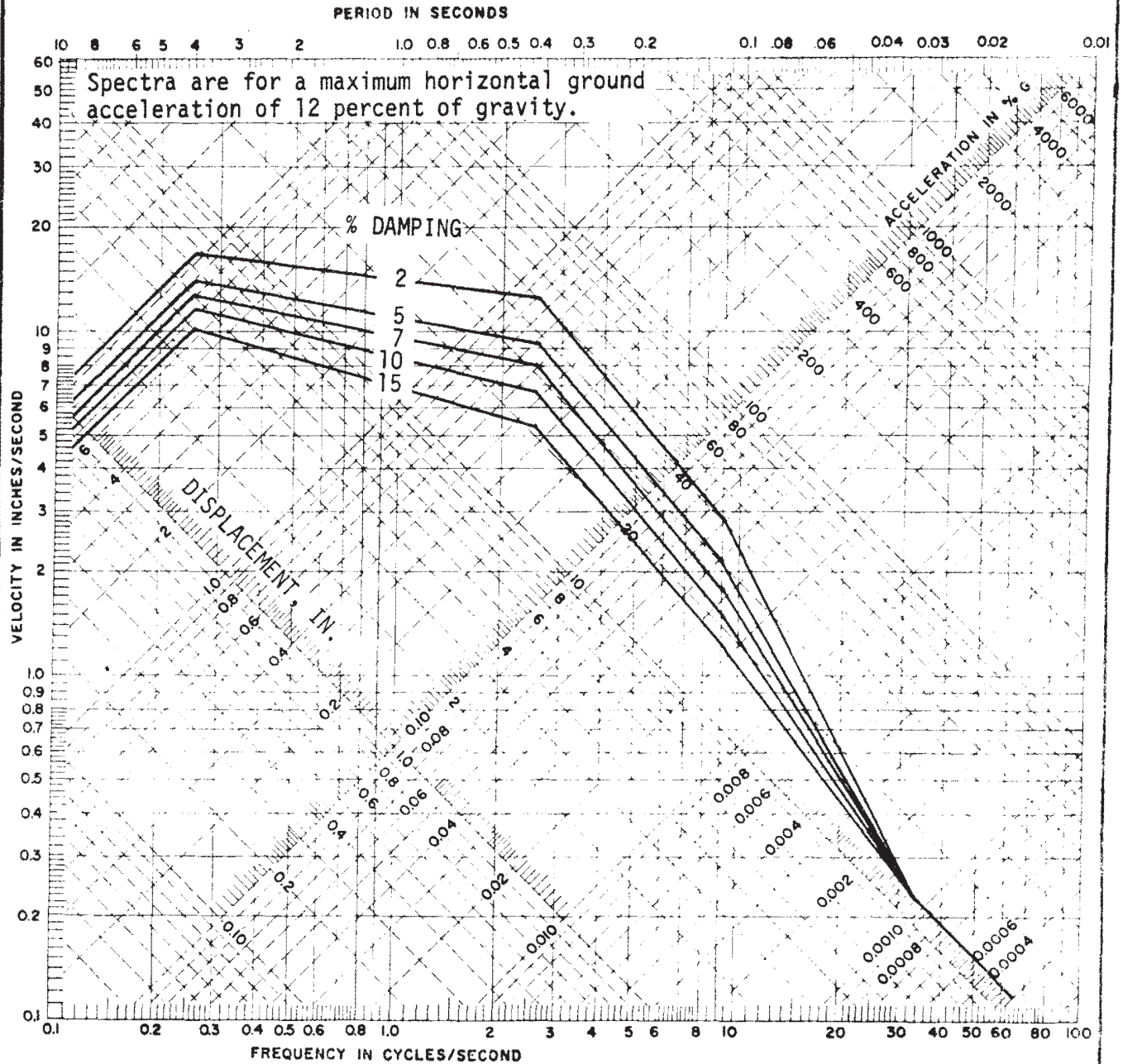


COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

Typical Reactor Internals
Vertical Seismic
Structural Model
(Response Spectrum
Analysis Method)

FIGURE 3.7N-5

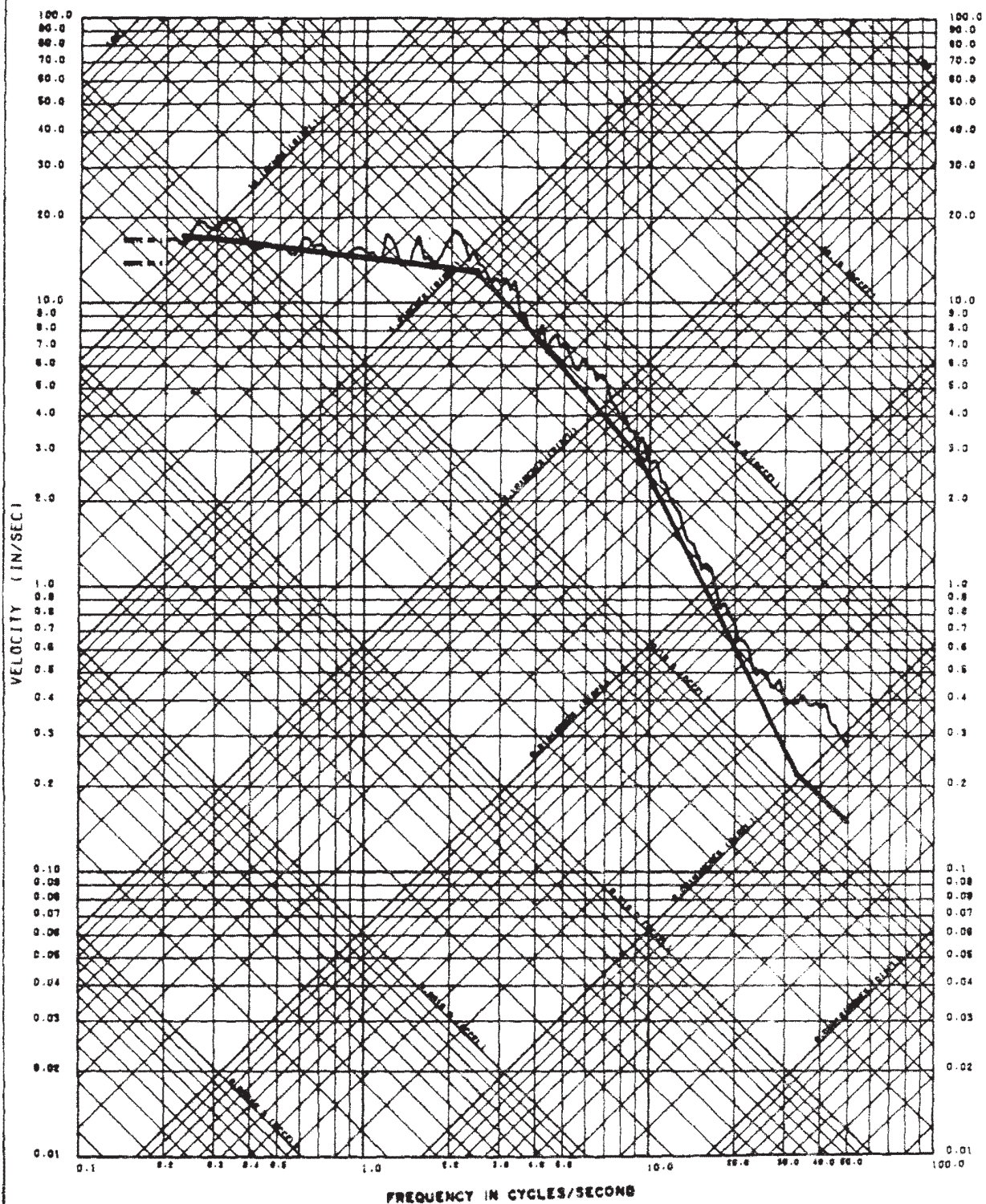
AMENDMENT 20
MAY 7, 1981



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FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

DESIGN RESPONSE SPECTRA
FOR HORIZONTAL SAFE
SHUTDOWN EARTHQUAKE

FIGURE 3.7B-1

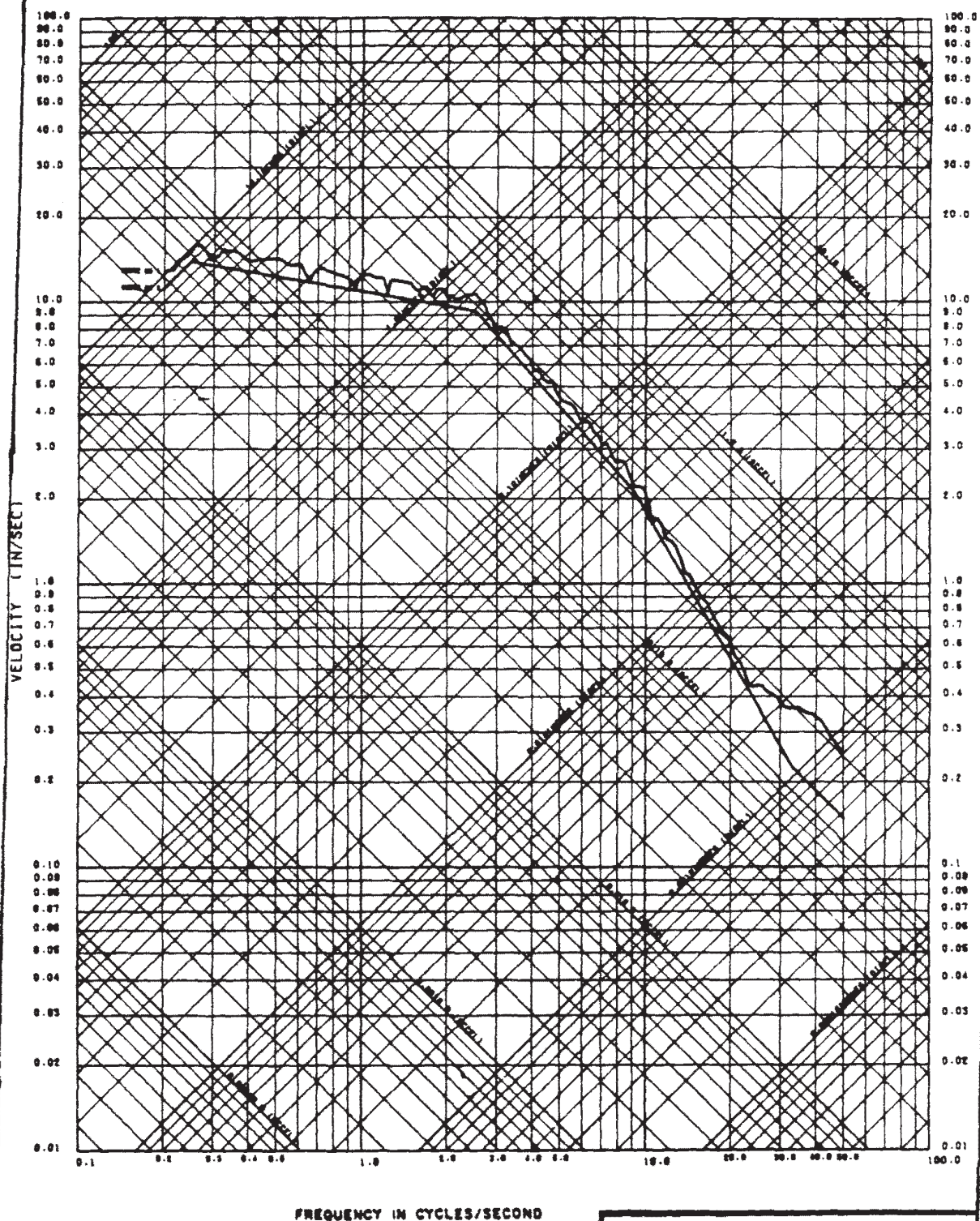


COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

HORIZONTAL RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
2 PERCENT DAMPING

FIGURE 3.7B-2

Amendment 68
February 15, 1988



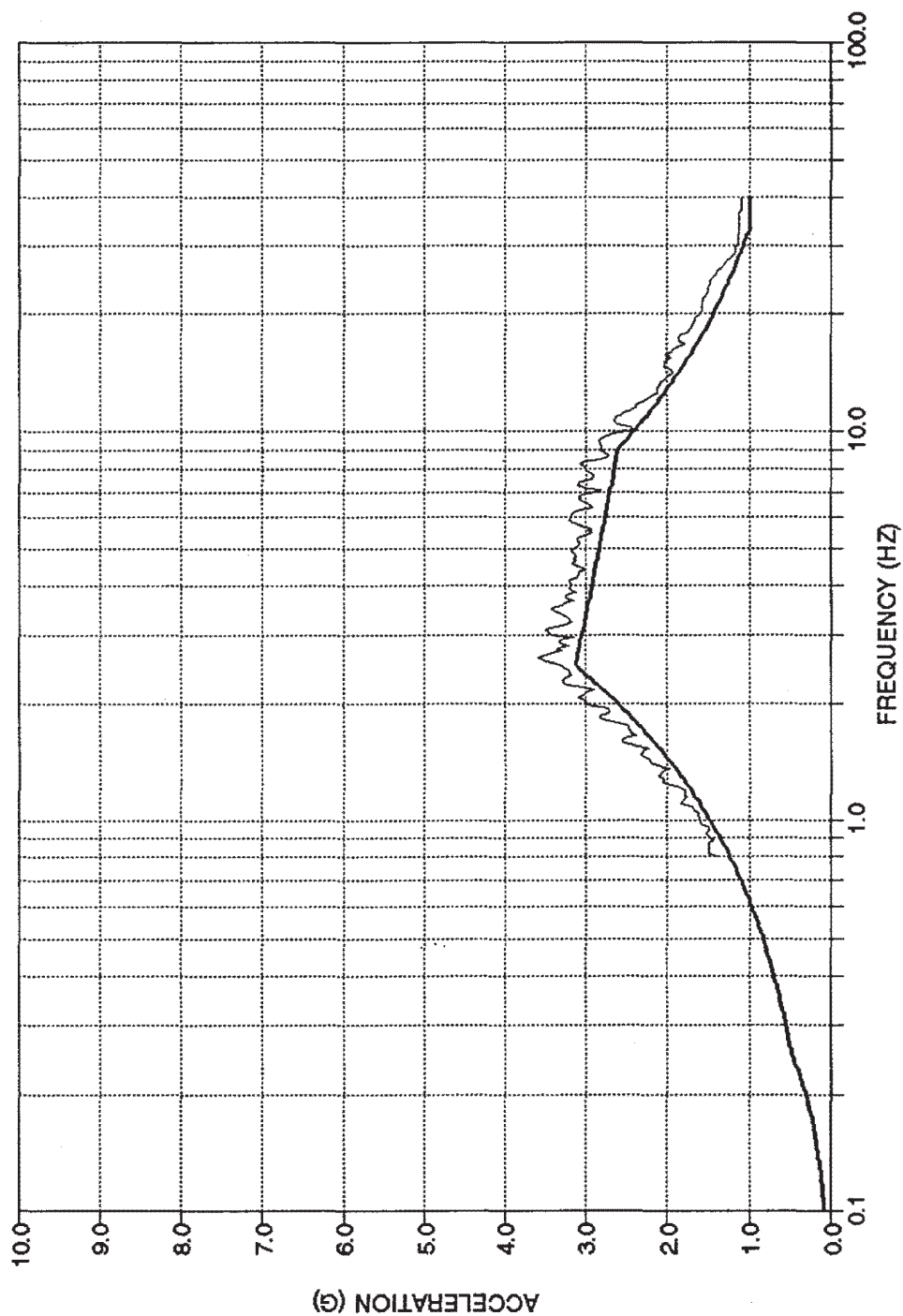
FREQUENCY IN CYCLES/SECOND

Amendment 68
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FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

HORIZONTAL RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
5 PERCENT DAMPING

FIGURE 3.7B-3

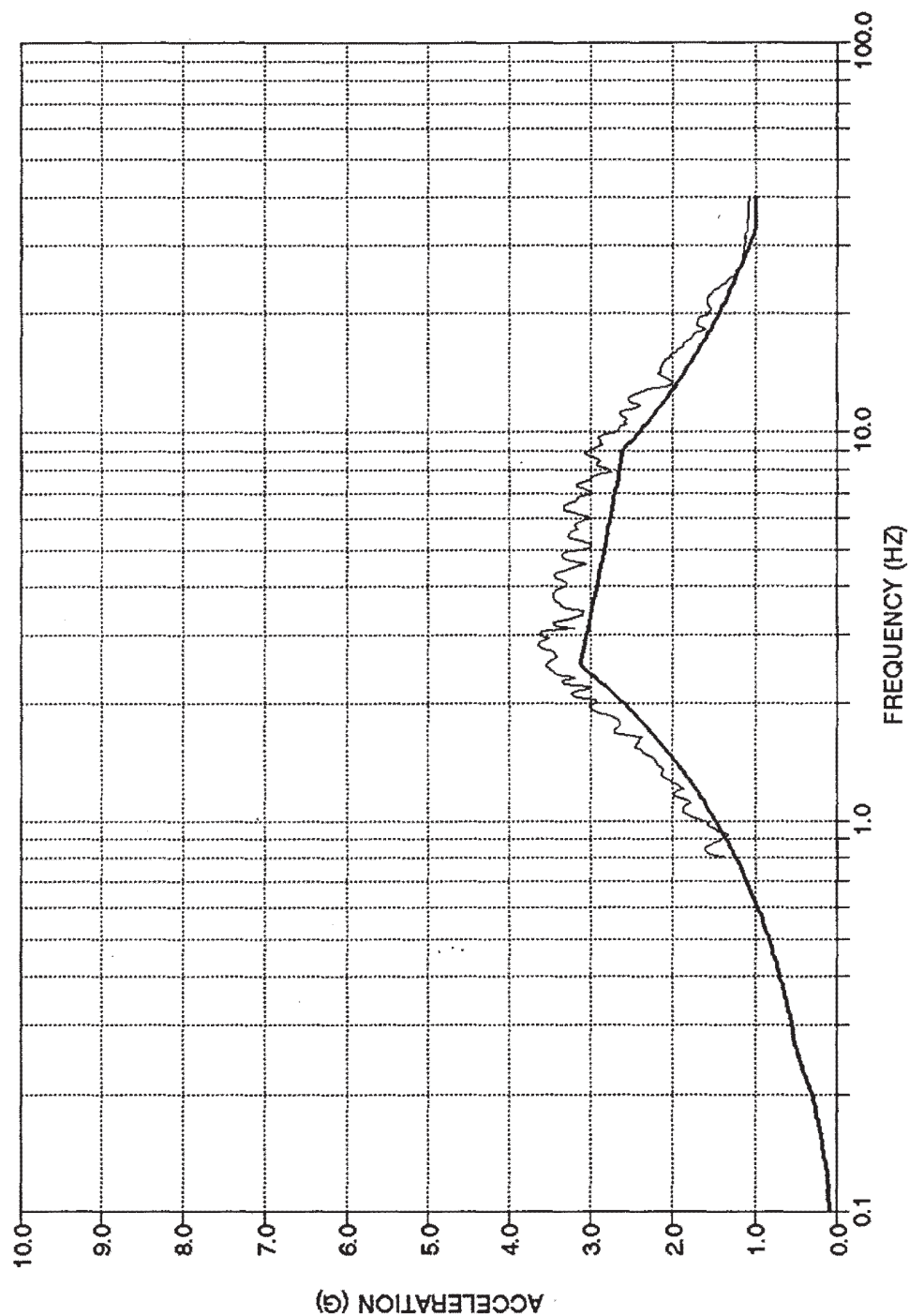


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COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL BUILDING RE-ANALYSIS
EAST-WEST RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
5 PERCENT DAMPING

FIGURE 3.7B-3A

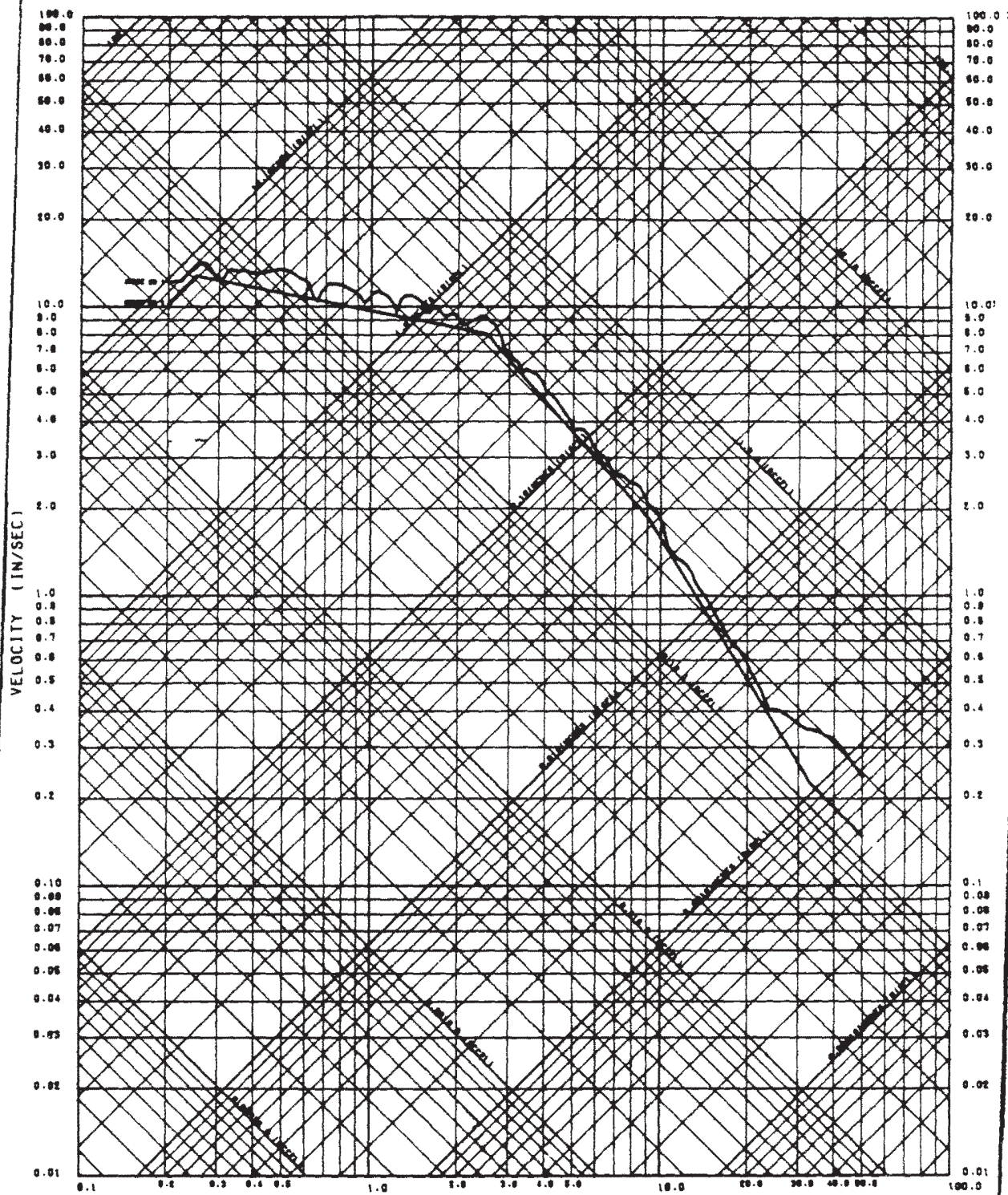


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COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL BUILDING RE-ANALYSIS
NORTH-SOUTH RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
5 PERCENT DAMPING

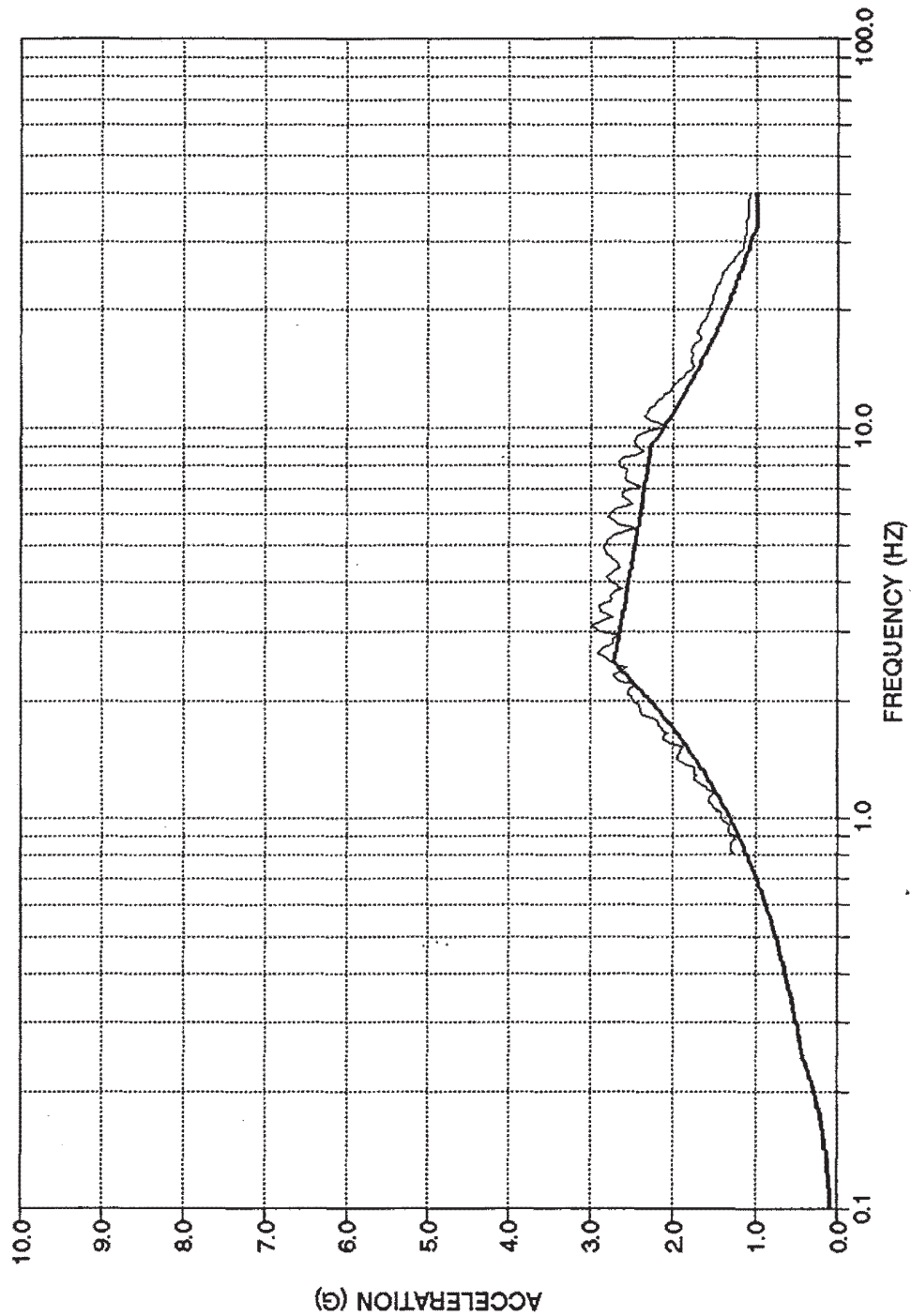
FIGURE 3.7B-3B



FREQUENCY IN CYCLES/SECOND

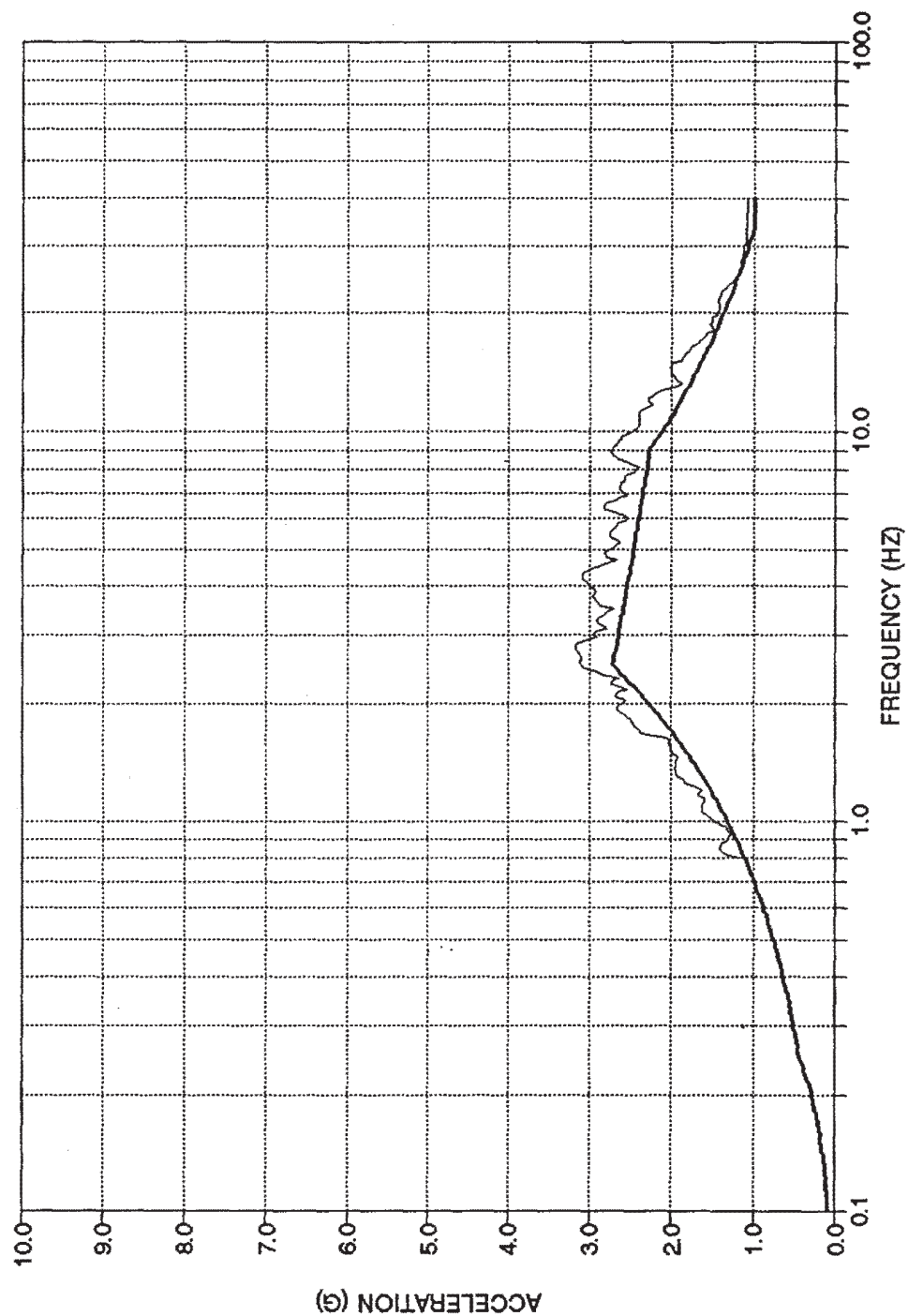
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COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2
HORIZONTAL RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
7 PERCENT DAMPING
FIGURE 3.78-4



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COMANCHE PEAK S E S FINAL SAFETY ANALYSIS REPORT UNITS 1 AND 2
FUEL BUILDING RE-ANALYSIS EAST-WEST RESPONSE SPECTRA SAFE SHUTDOWN EARTHQUAKE 7 PERCENT DAMPING
FIGURE 3.7B-4A

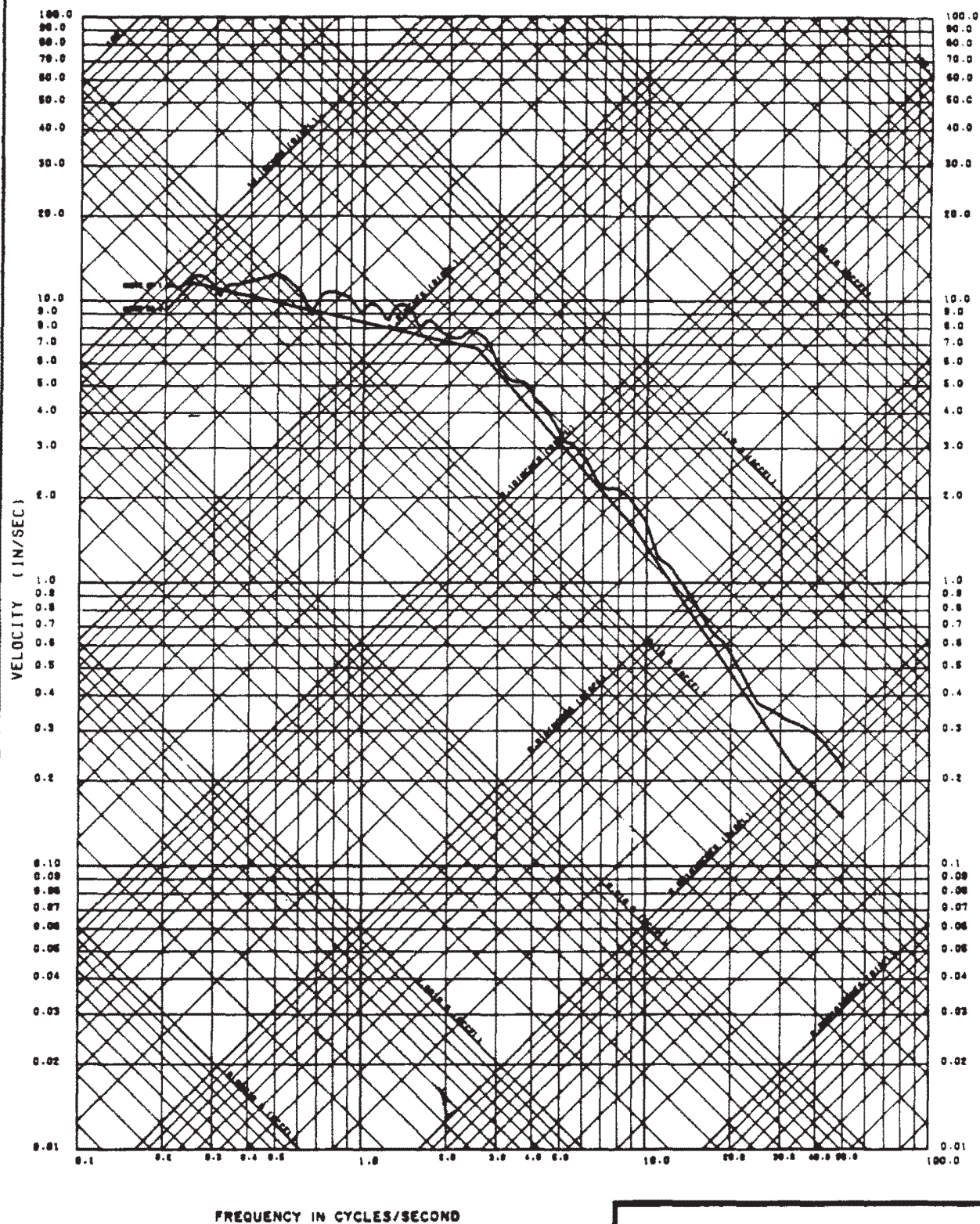


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COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL BUILDING RE-ANALYSIS
NORTH-SOUTH RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
7 PERCENT DAMPING

FIGURE 3.7B-4B

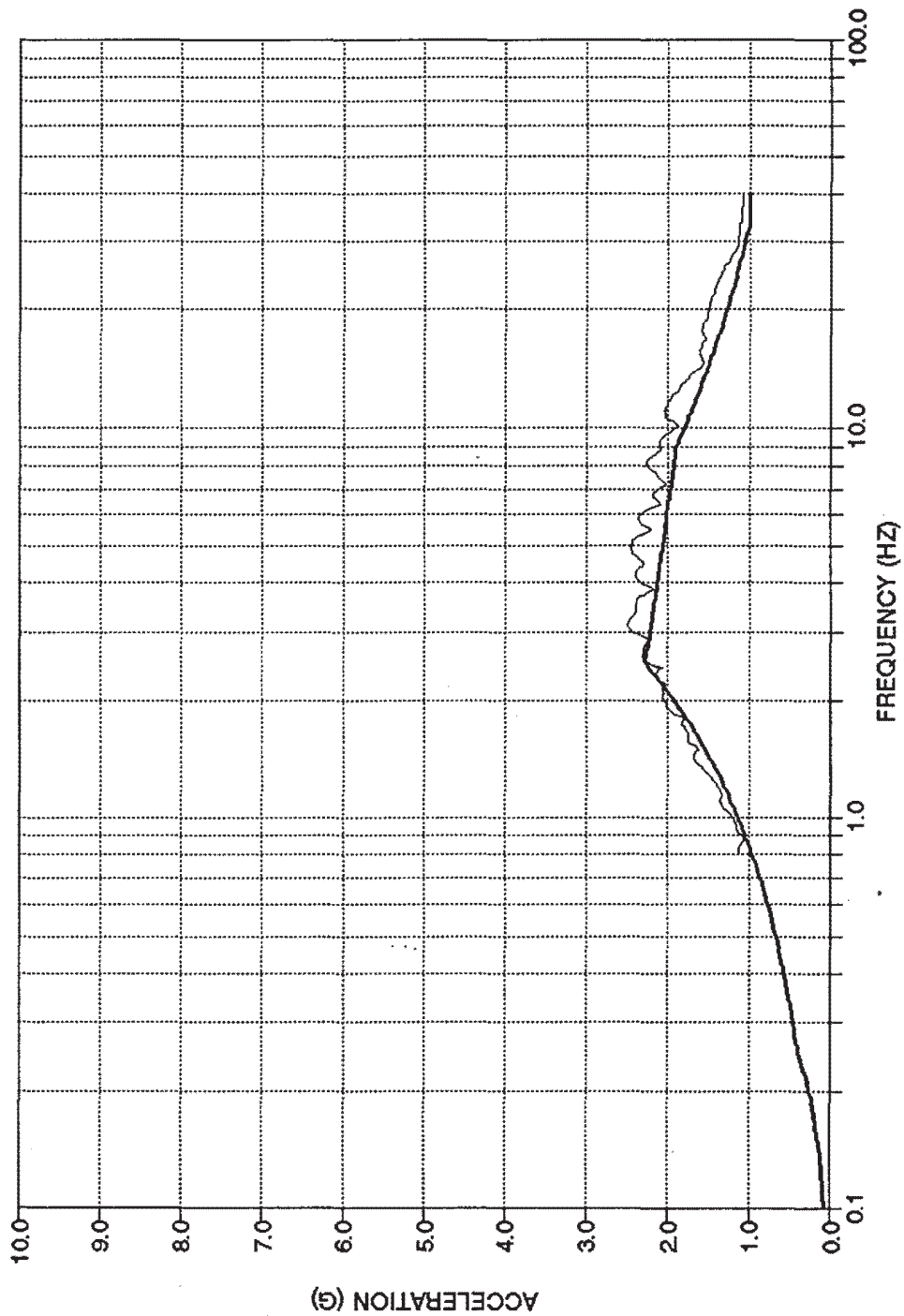


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COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

HORIZONTAL RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
10 PERCENT DAMPING

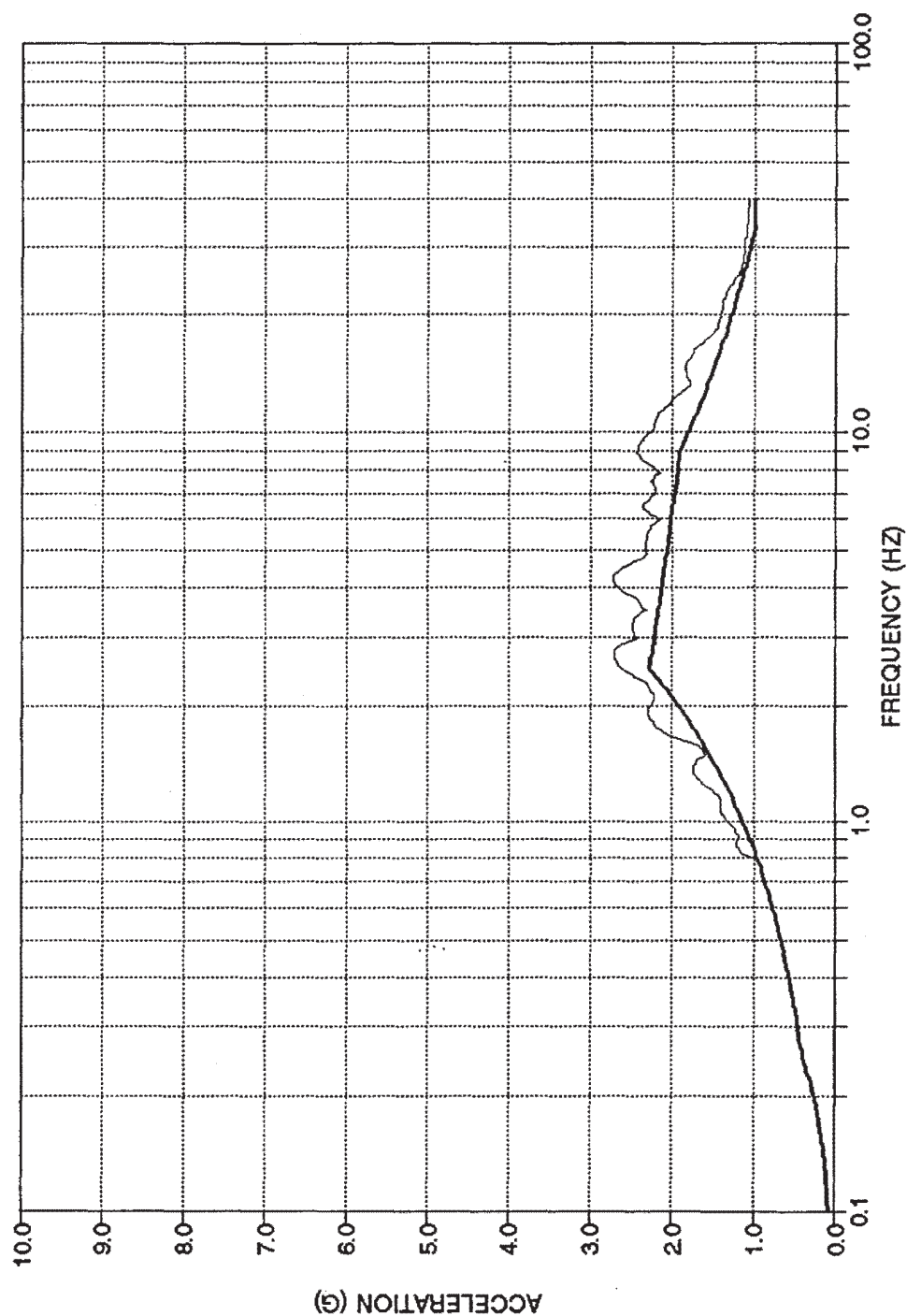
FIGURE 3.7B-5



COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL BUILDING RE-ANALYSIS
EAST-WEST RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
10 PERCENT DAMPING

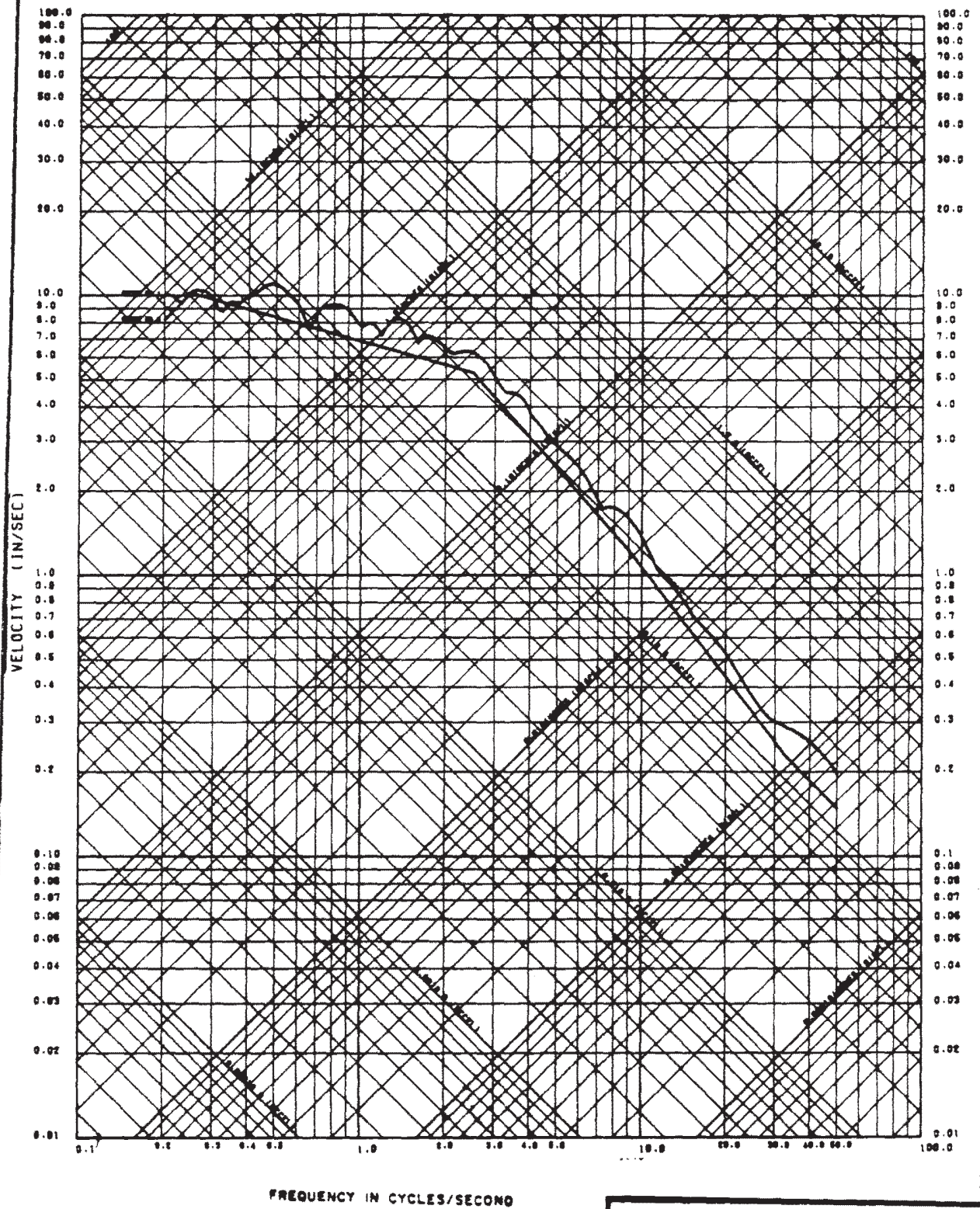
FIGURE 3.7B-5A



COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL BUILDING RE-ANALYSIS
NORTH-SOUTH RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
10 PERCENT DAMPING

FIGURE 3.7B-5B

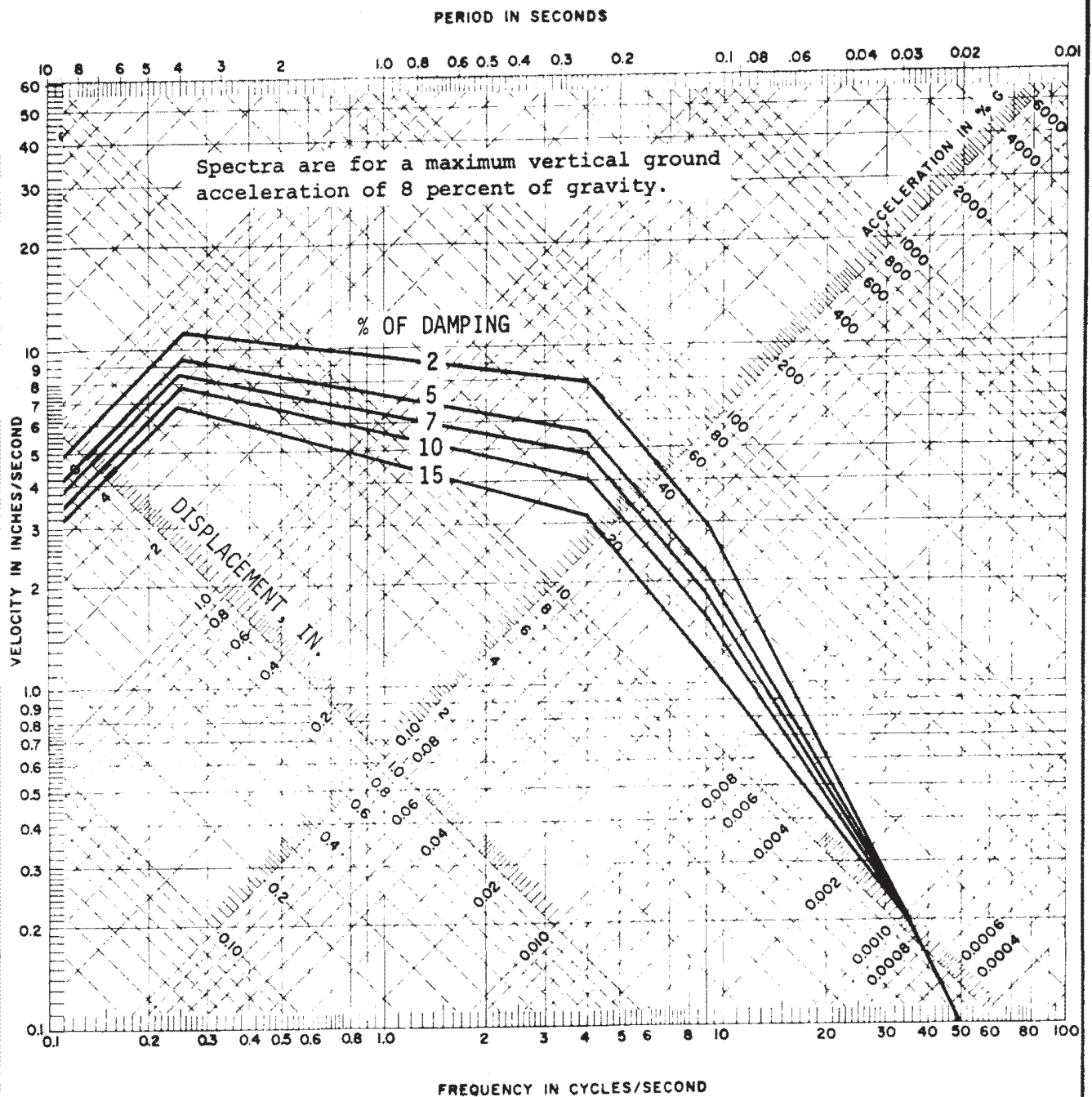


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COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

HORIZONTAL RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
15 PERCENT DAMPING

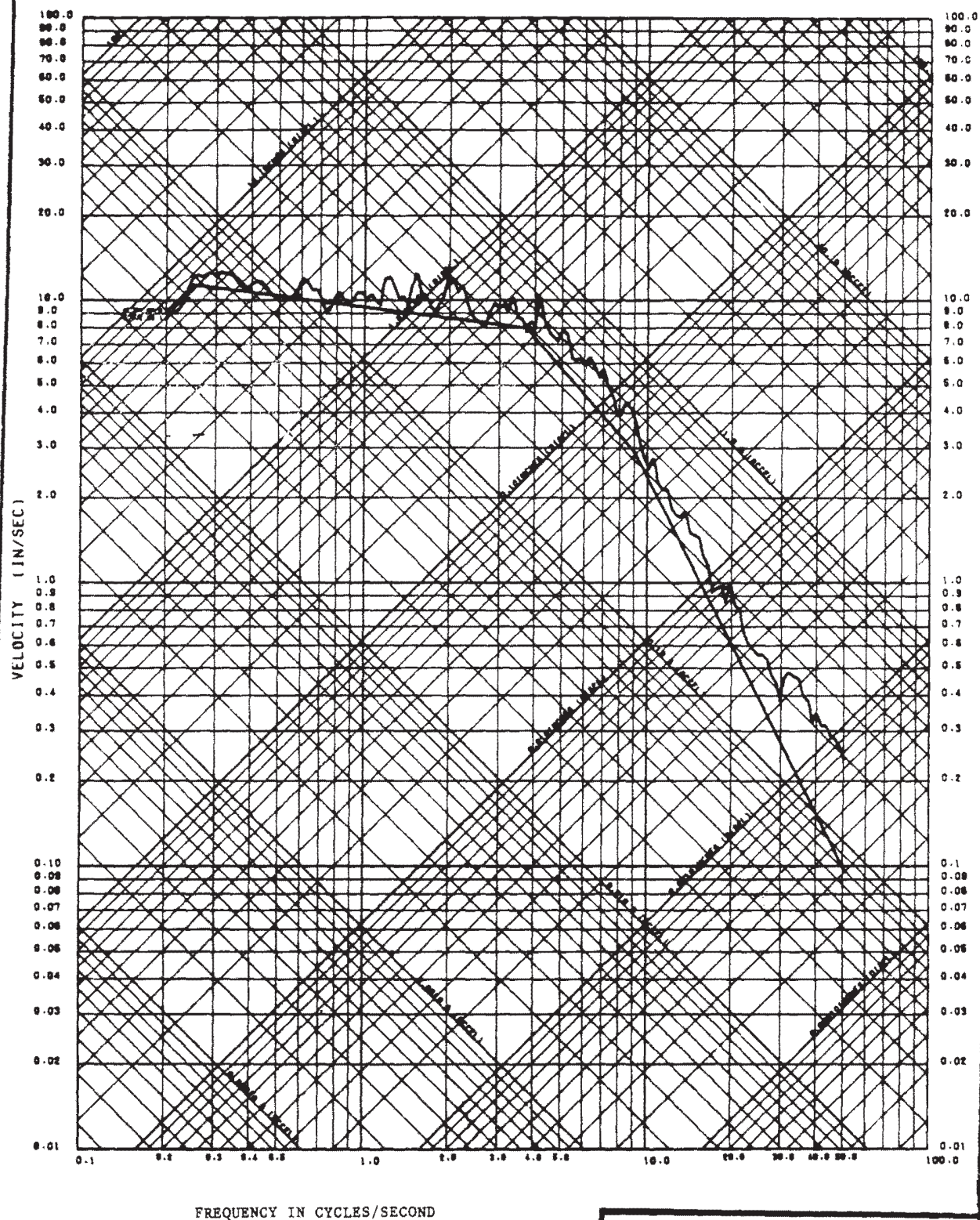
FIGURE 3.7B-6



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FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

DESIGN RESPONSE SPECTRA
FOR VERTICAL SAFE
SHUTDOWN EARTHQUAKE

FIGURE 3.7B-7



FREQUENCY IN CYCLES/SECOND

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COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

VERTICAL RESPONSE SPECTRA
SAFE SHUTDOWN EARTHQUAKE
2 PERCENT DAMPING

FIGURE 3.7B-8