

Georgia Power Company  
Post Office Box 282  
Waynesboro, Georgia 30830  
Telephone 404 554-9961  
404 724-8114

Southern Company Services, Inc.  
Post Office Box 2625  
Birmingham, Alabama 35202  
Telephone 205 870-6011



**Vogtle Project**

August 13, 1986

Director of Nuclear Reactor Regulation  
Attention: Mr. B. J. Youngblood  
PWR Project Directorate #4  
Division of PWR Licensing A  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

File: X7BC35  
Log: GN-1042

REF: Miller to Conway, dated 6/20/86

NRC DOCKET NUMBERS 50-424 AND 50-425  
CONSTRUCTION PERMIT NUMBERS CPPR-108 AND CPPR-109  
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 AND 2  
SER CONFIRMATORY ITEM 10: HIGH ENERGY PIPE ANALYSIS

Dear Mr. Denton:

The referenced letter requested additional information on class 1 piping analysis. Enclosed for your staff's review are the results of the class 1 piping analysis detailing break locations and stresses. The class 2 and 3 piping analysis results were documented in Amendment 22 to the VEGP FSAR. The material contained in the enclosed figures will be included in Amendment 25, which is presently scheduled for September 19, 1986.

If your staff requires any additional information, please do not hesitate to contact me.

Sincerely,

J. A. Bailey  
Project Licensing Manager

JAB/caa  
Enclosure  
xc: List attached.

8608210201 860813  
PDR ADOCK 05000424  
E PDR

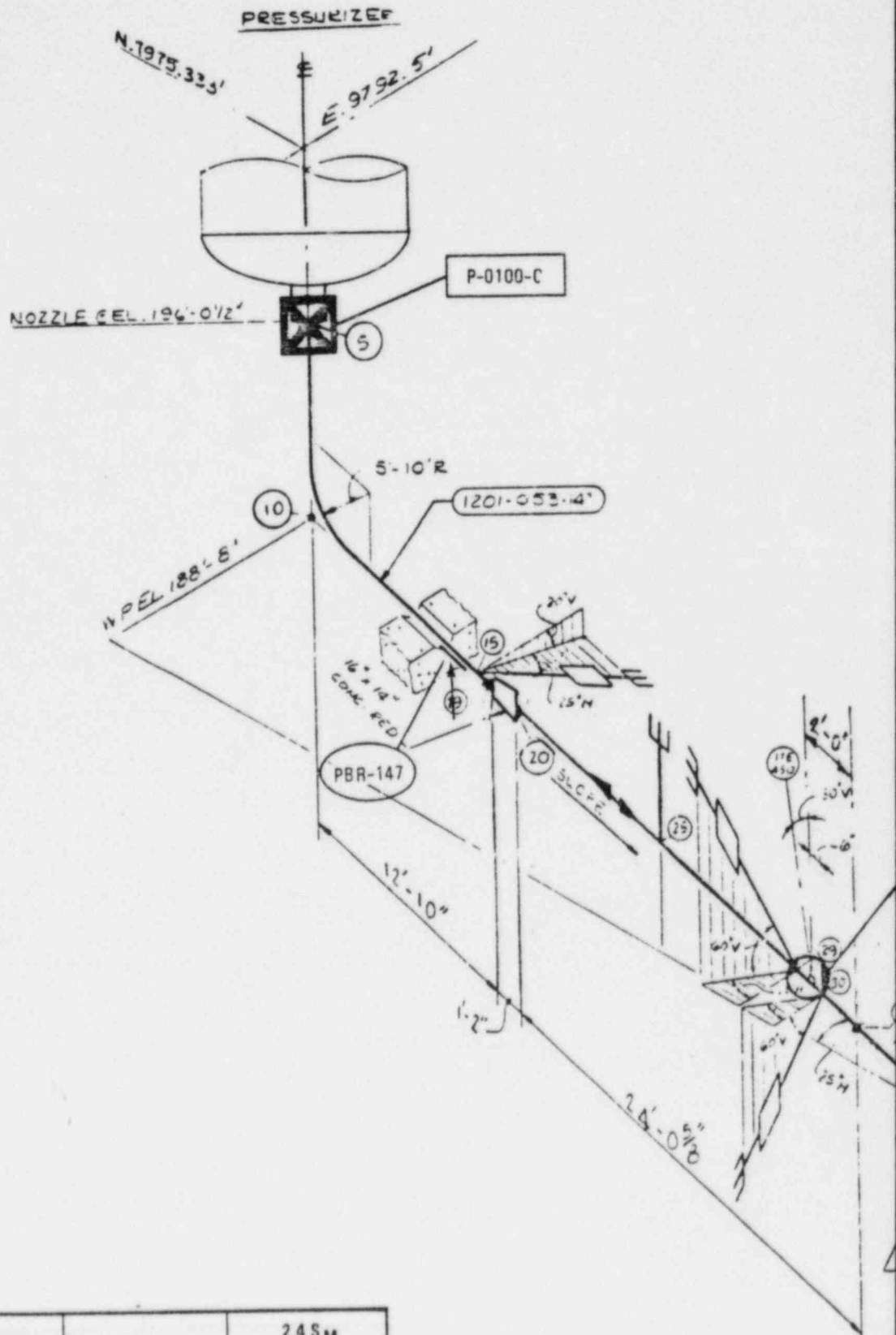
Boo1  
1/3  
APERTURE CASE 01302

Director of Nuclear Reactor Regulation  
August 13, 1986  
Page 2

File: X7BC35  
Log: GN-1042

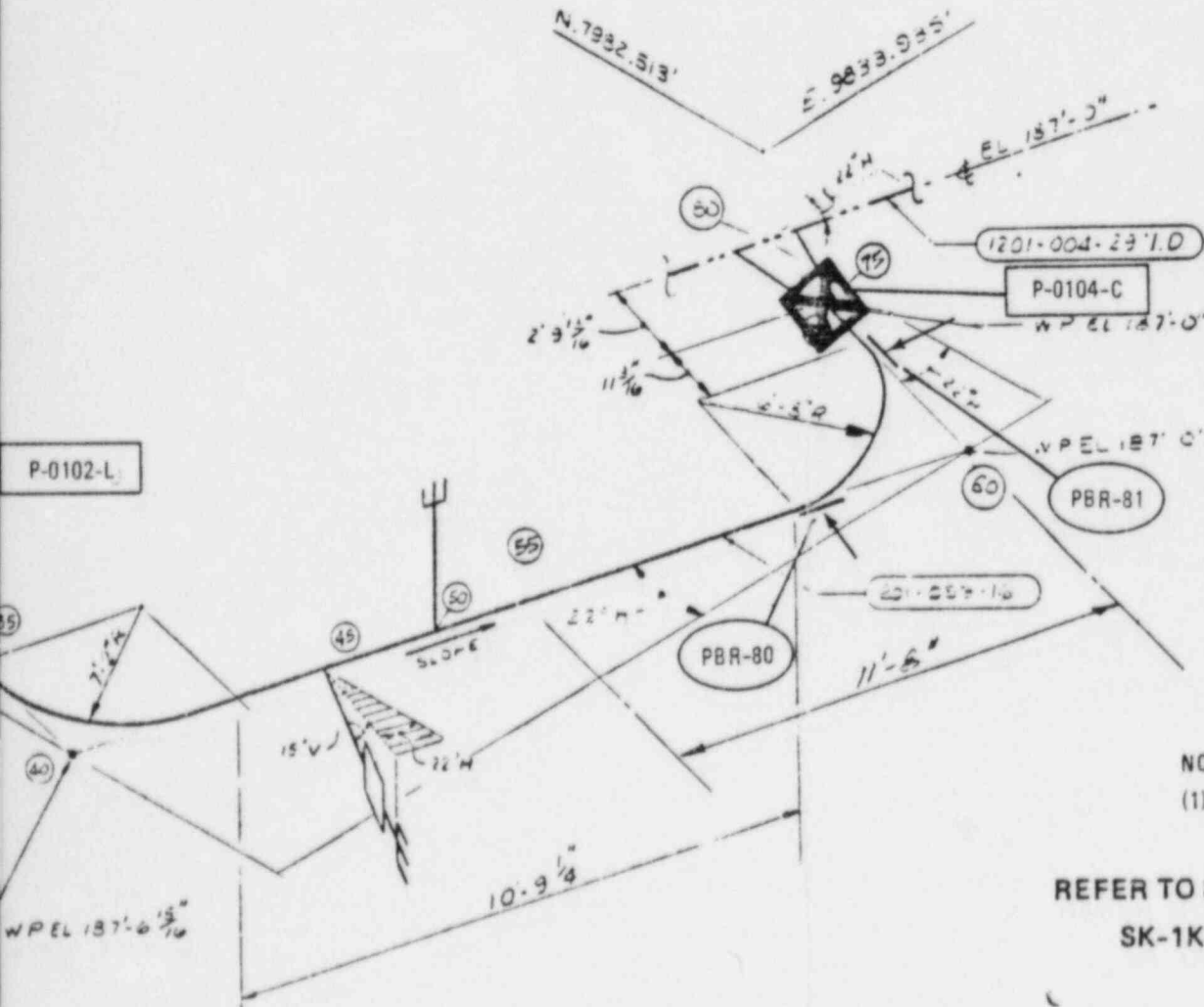
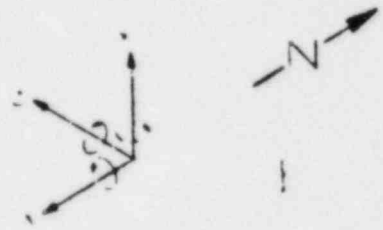
xc: R. E. Conway (w/o encl.)  
R. A. Thomas (w/o encl.)  
J. E. Joiner, Esquire  
B. W. Churchill, Esquire  
M. A. Miller (2)  
B. Jones, Esquire  
G. Bockhold, Jr. (w/o encl.)  
NRC Regional Administrator  
NRC Resident Inspector  
D. C. Teper  
W. C. Ramsey (w/o encl.)  
L. T. Gucwa (w/o encl.)  
Vogtle Project File

0653V



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
75	(1)	(1)	40,080
29	5,079	45,100	40,080
5	(1)	(1)	40,080

PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-80	392
PBR-81	392
PBR-147	299



**TI APERTURE CARD**


**Also Available On Aperture Card**

- NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

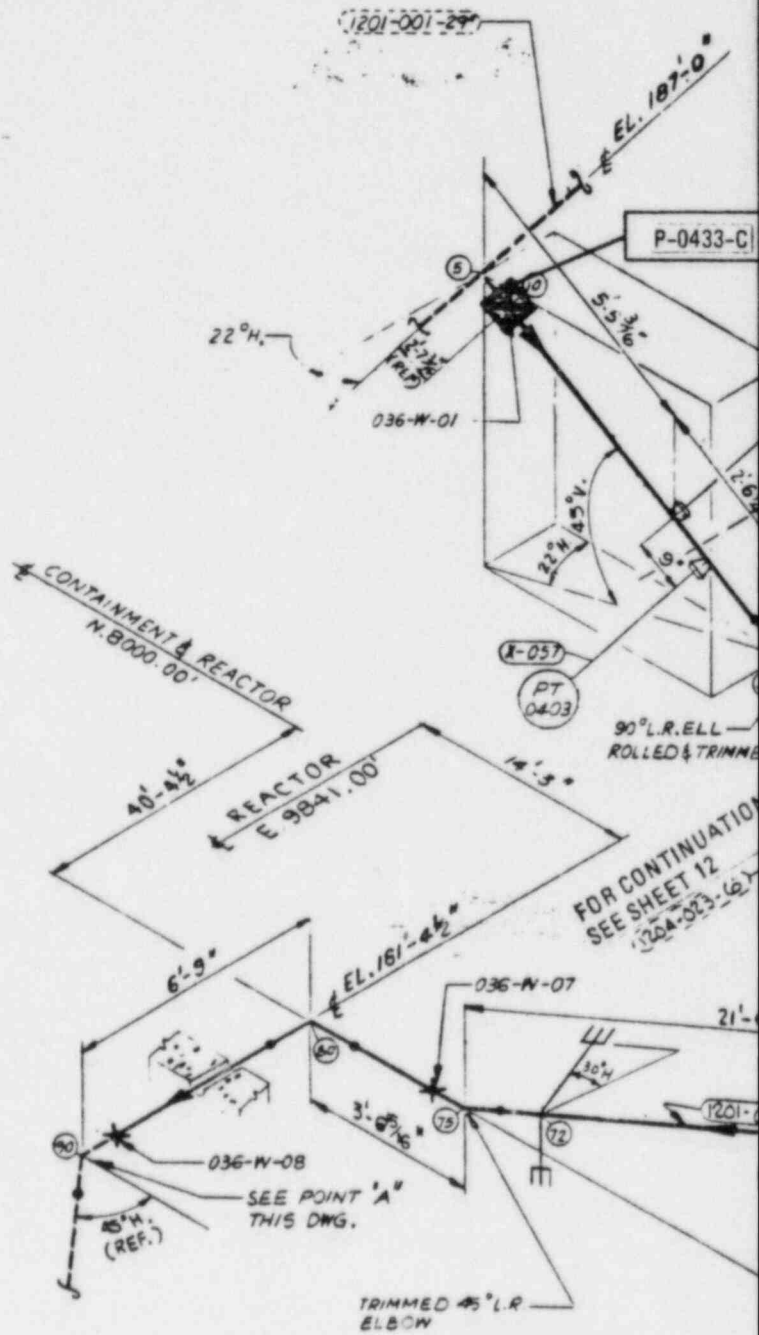
SK-1K4-1201-053-01, REV. 1

Amend. 9 8/84  
 Amend. 22 2/86

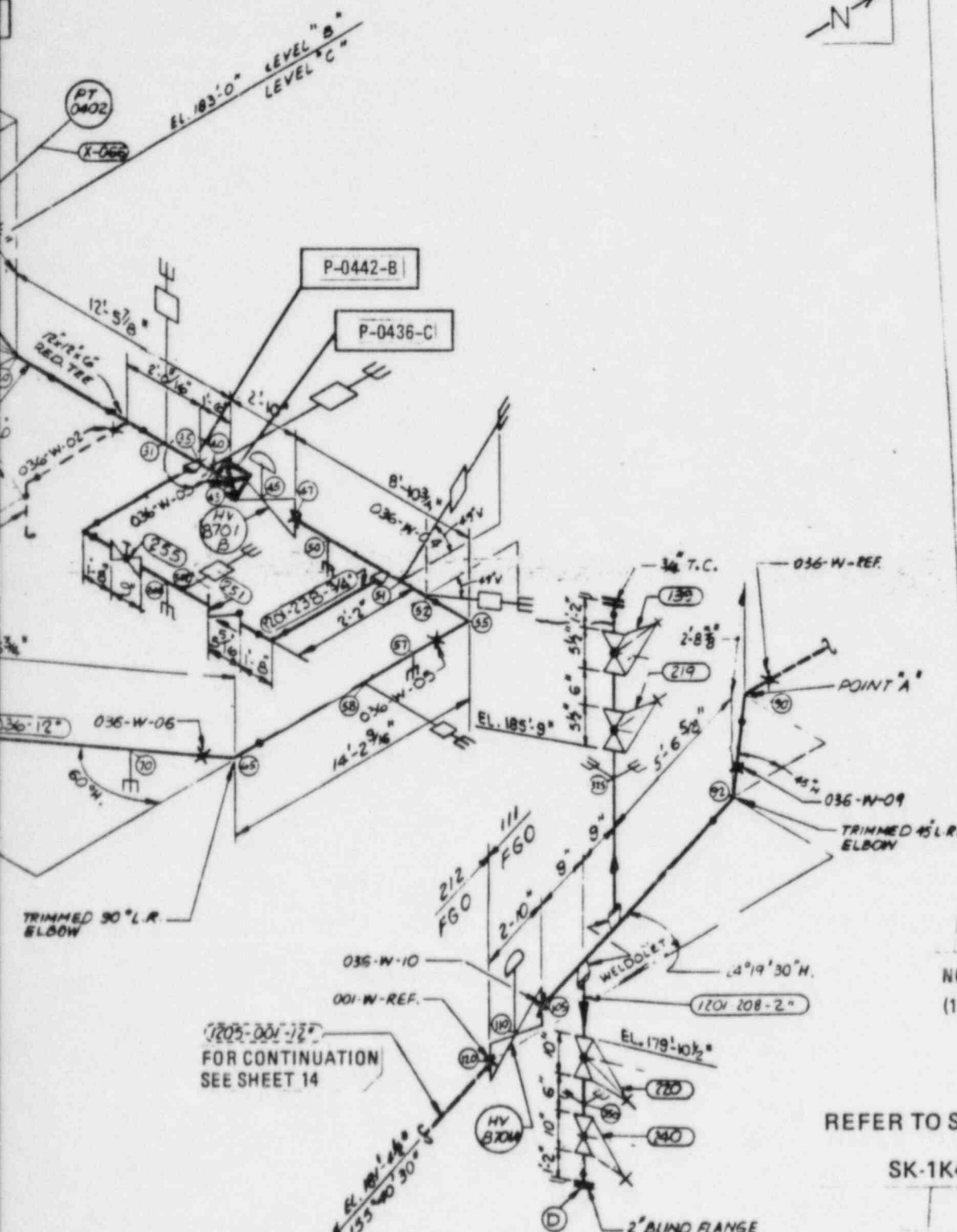
Georgia Power  VOGTLE ELECTRIC GENERATING PLANT UNIT 1 AND UNIT 2

PRESSURIZER SURGE LINE  
 FIGURE 3.6.1-1 (SHEET 8 OF 222)

8608210201-01



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
10	(1)	(1)	40,080
35	11,501	41,100	40,080
43	(1)	(1)	40,080




# TI APERTURE CARD

Also Available On Aperture Card

- NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-036-01, REV. 0  
 Amend. 9 8/84  
 Amend. 22 2/86

Georgia Power  VOGTLE ELECTRIC GENERATING PLANT UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS) CONTAINMENT BUILDING AREA 4A, LEVELS B AND C

FIGURE 3.6.1-1 (SHEET 9 OF 222)

8608210201-02

PIPE BREAK RESTRAINT	THRUST LOAD (KIPS)
PBR-140	48
PBR-141	48
<del>PBR-313</del>	<del>48</del>
<del>PBR-314</del>	<del>48</del>

PBR-

EL. 177'-5"

SRE

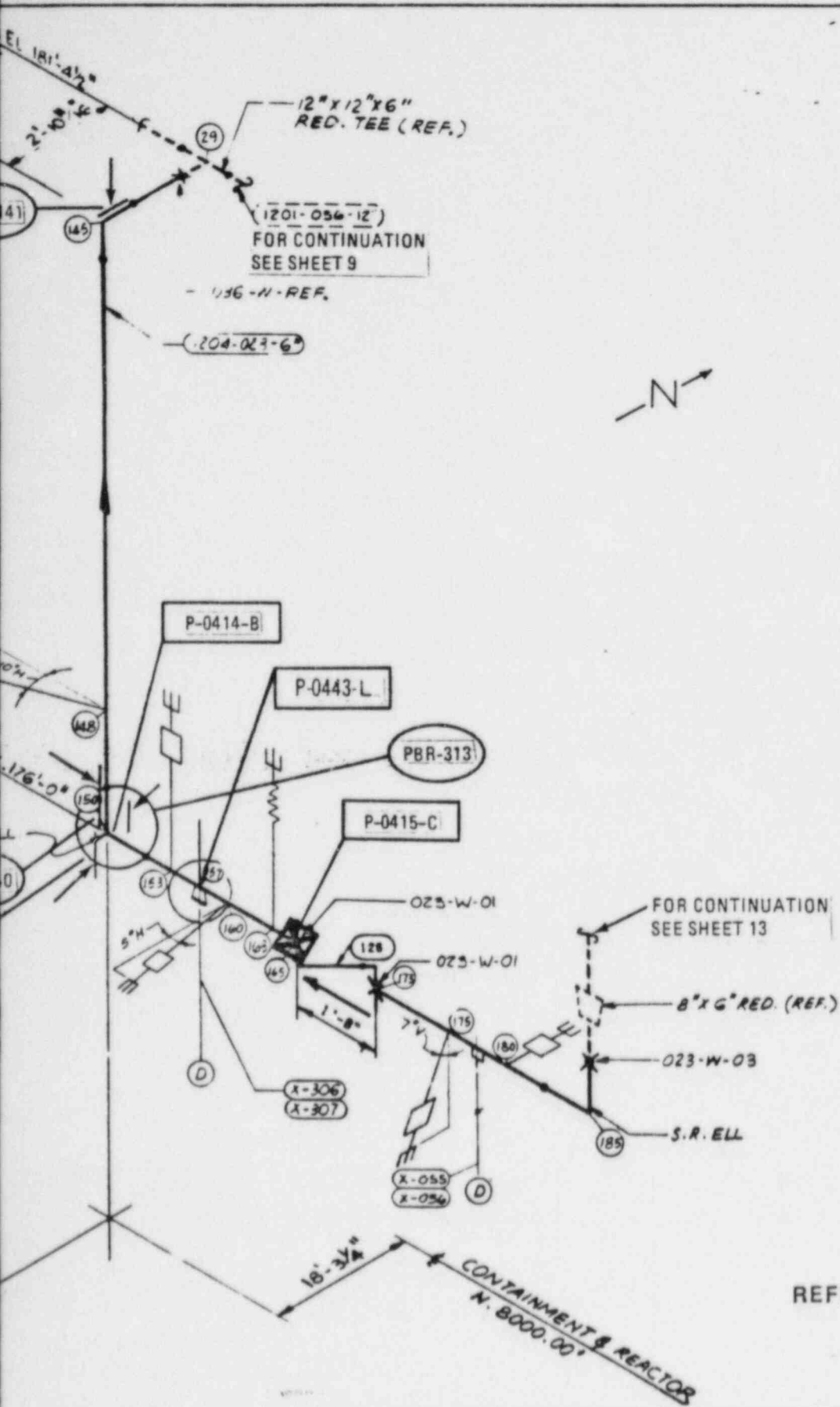
PBR-14

PBR-314

REACTOR  
E. 9841.00'

21'-2 9/16"

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
150	35,081	18,641	32,880
157	9,769	35,135	32,880
165	(1)	(1)	32,880



**TI  
APERTURE  
CARD**

**Also Available On  
Aperture Card**

- NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-023-02, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

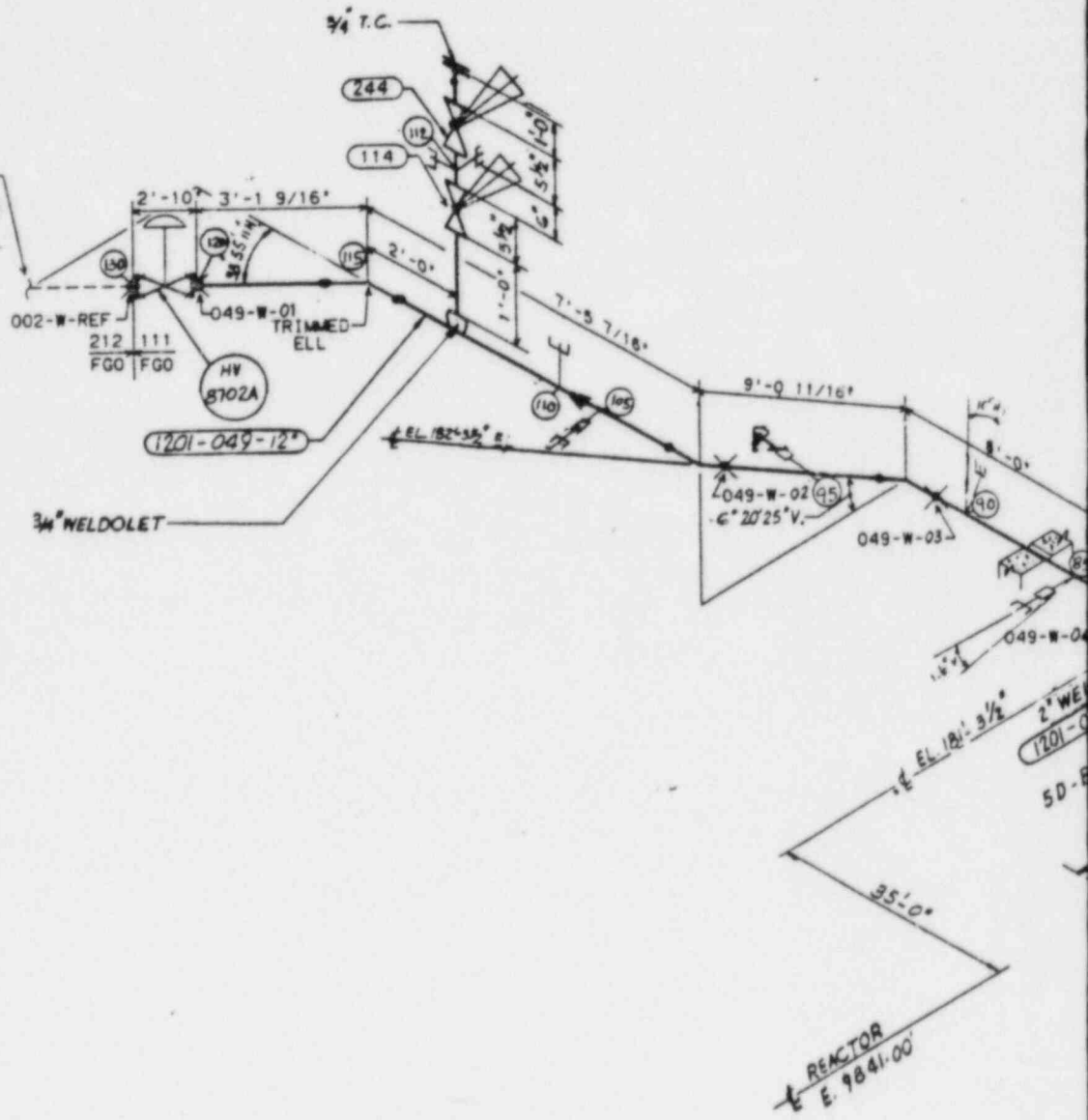
Georgia Power  VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4A, LEVEL C  
FIGURE 3.6.1-1 (SHEET 12 OF 222)

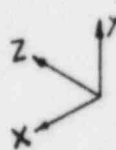
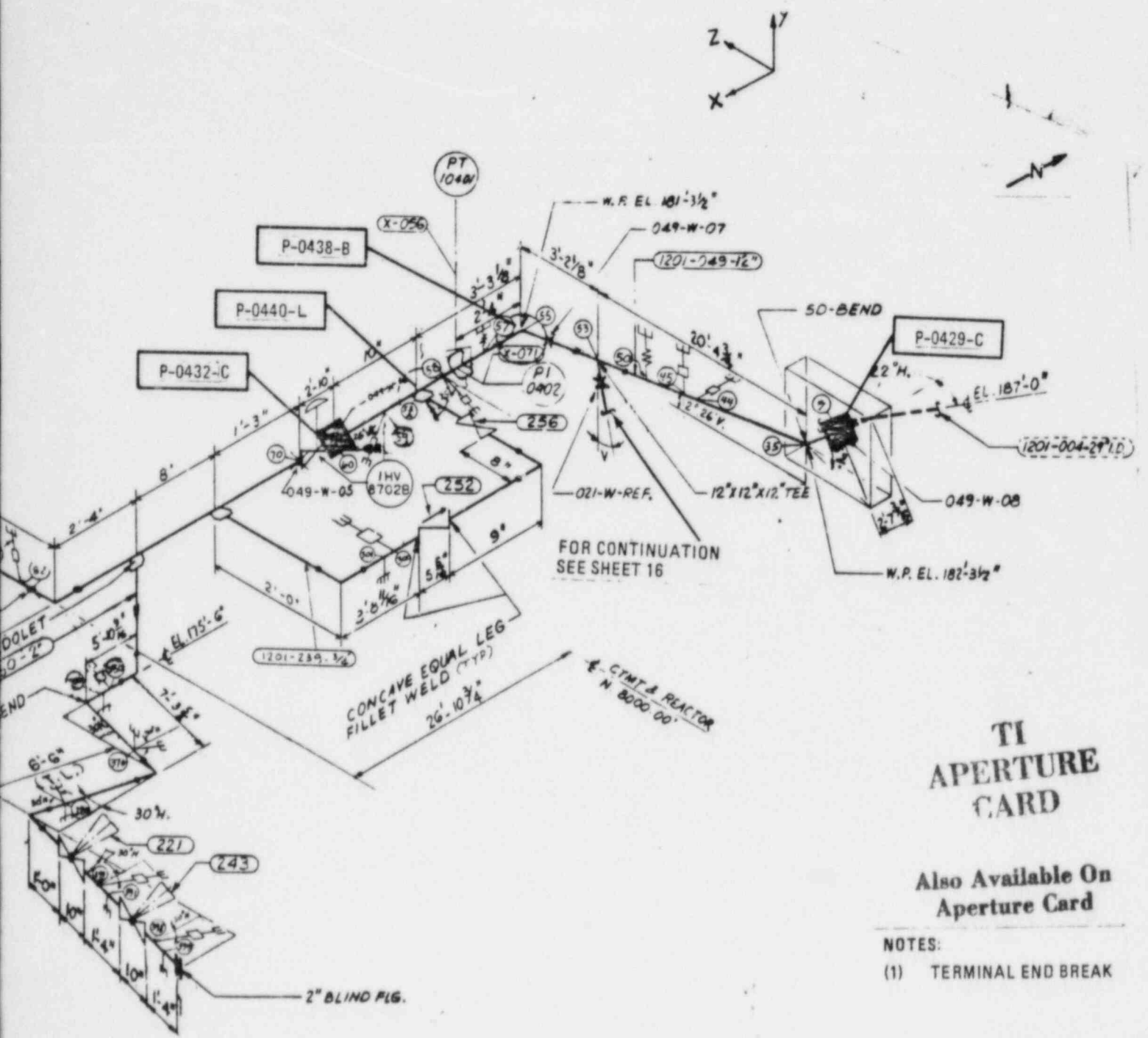
8608210201-03



1205-002-12"  
FOR CONTINUATION  
SEE SHEET 19



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABLE STRESS (PSI)
5	(1)	(1)	40,080
55	50,100	21,203	40,080
58A	37,156	46,012	40,080
60	(1)	(1)	32,880



FOR CONTINUATION  
SEE SHEET 16

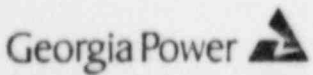
# TI APERTURE CARD

Also Available On  
Aperture Card

- NOTES:
- (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-049-02, REV. 0  
Amend. 9, 8/84  
Amend. 22, 2/86

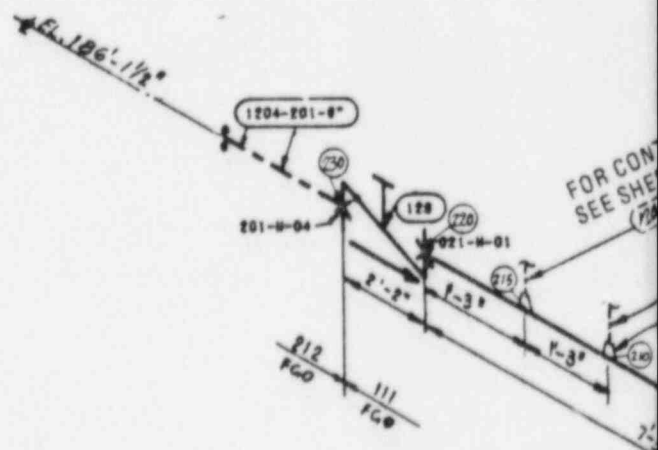
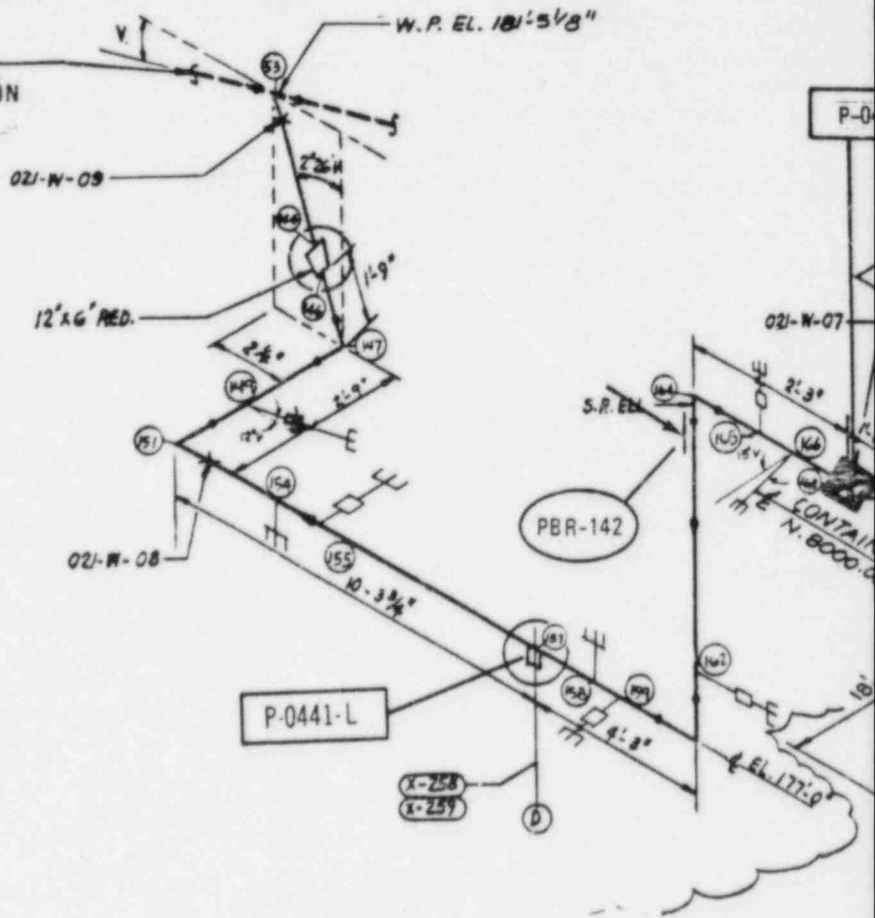

**VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2**

RCS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4D, LEVEL C  
 FIGURE 3.6.1-1 (SHEET 15 OF 222)

8608210201-04

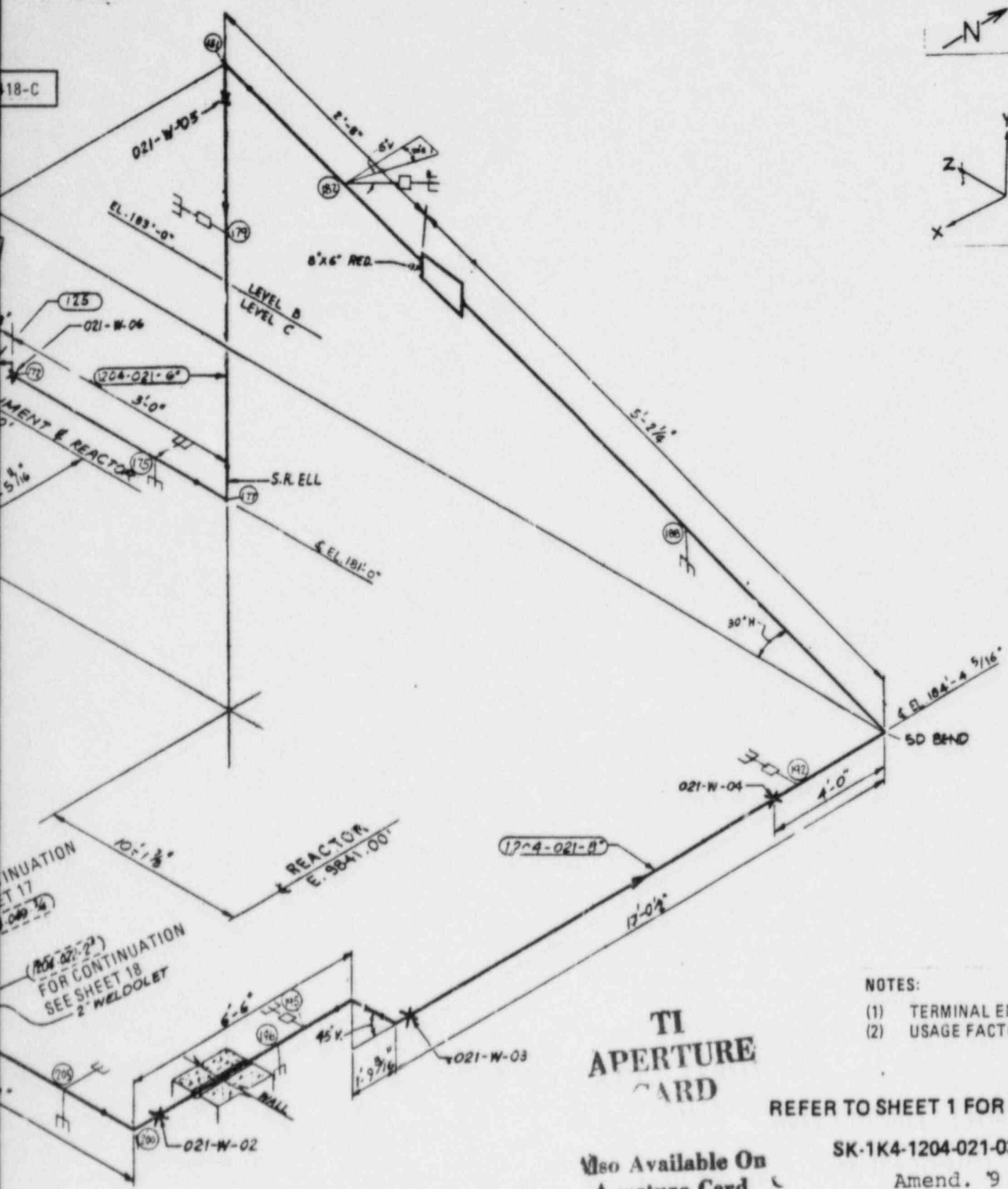
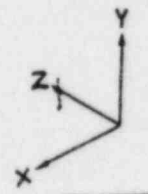
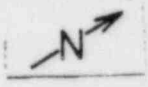
PIPE BREAK RESTRAINT	THRUST LOAD (KIPS)
PBR-142	48

1201-049-12  
FOR CONTINUATION  
SEE SHEET 15



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
157	31,326	31,677 (2)	32,880
168	(1)	(1)	32,880

18-C



CONTINUATION  
 SHEET 17  
 (REV. 02-72)  
 FOR CONTINUATION  
 SEE SHEET 18  
 2 W/DOCKET

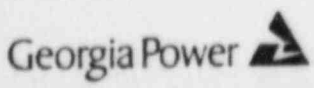
- NOTES:
- (1) TERMINAL END BREAK
  - (2) USAGE FACTOR > 0.1

**TI  
 APERTURE  
 CARD**

REFER TO SHEET 1 FOR LEGEND

Also Available On  
 Aperture Card

SK-1K4-1204-021-03, REV. 0  
 Amend. 9 8/84  
 Amend. 22 2/86

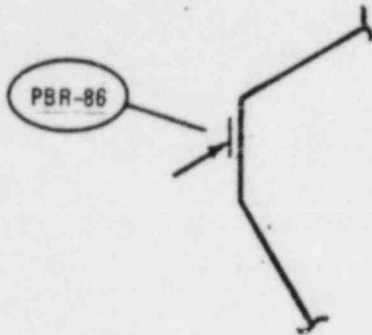


VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4D, LEVELS B AND C

FIGURE 3.6.1-1 (SHEET 16 OF 222)

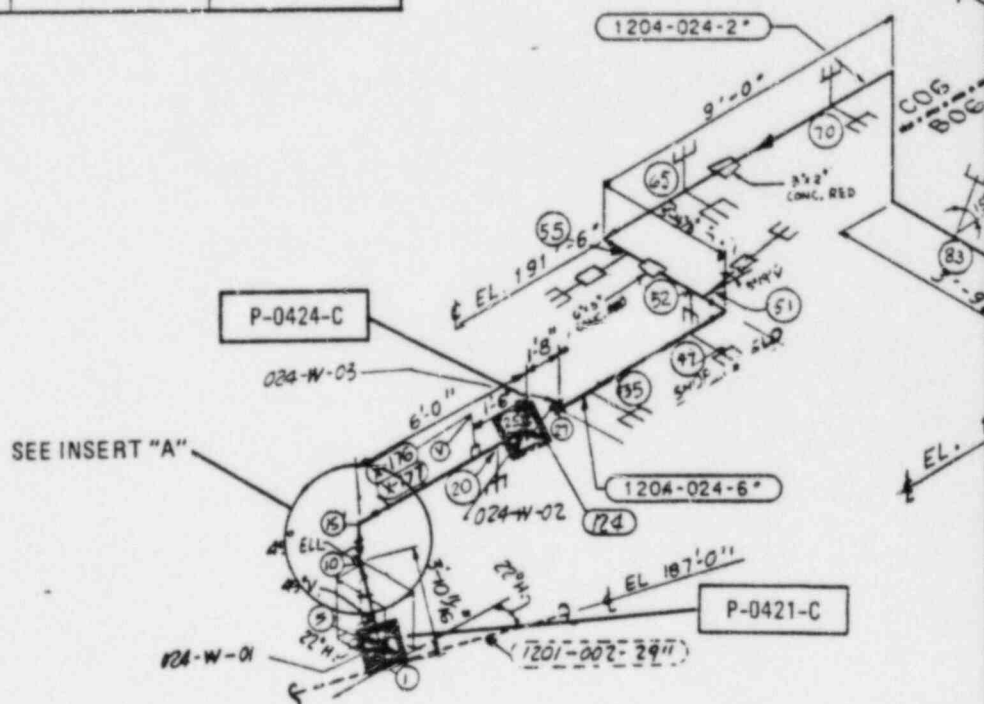
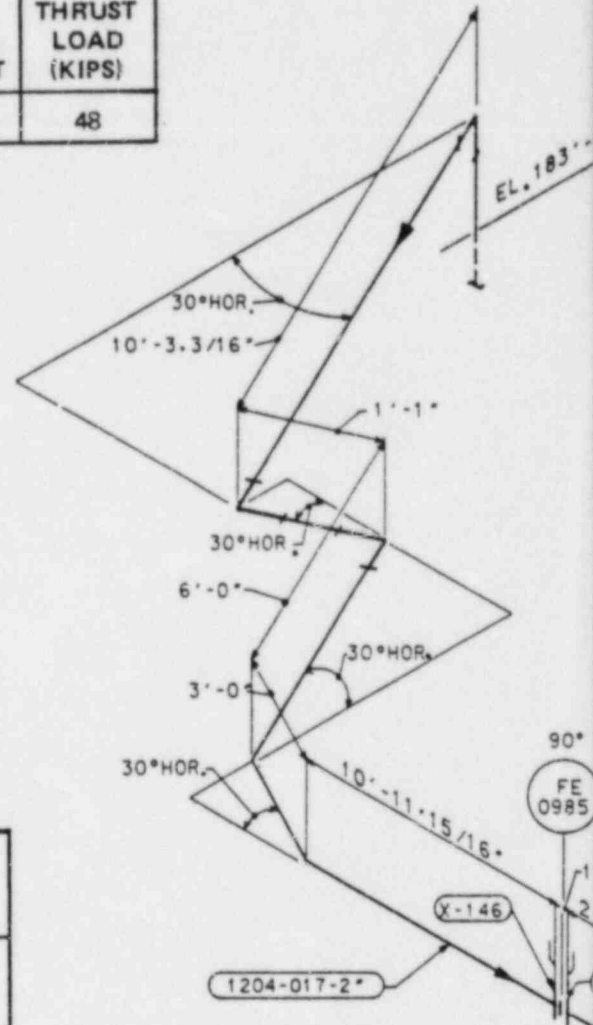
8608210201-05

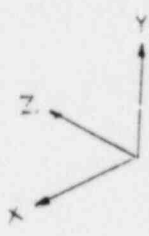
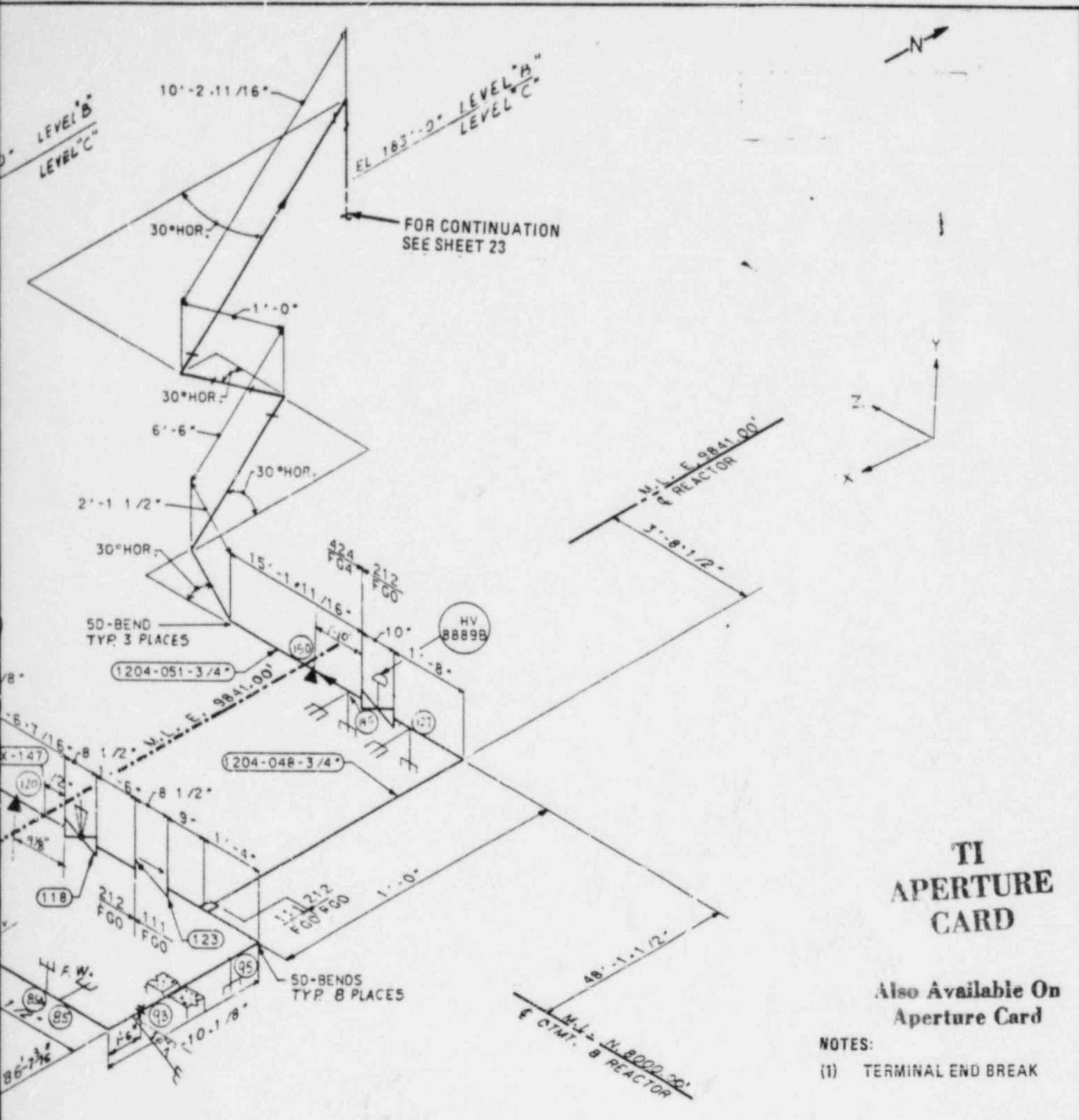


INSERT "A"

PIPE BREAK RESTRAINT	THRUST LOAD (KIPS)
PBR-86	48

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
5	(1)	(1)	32,880
25	(1)	(1)	32,880





# TI APERTURE CARD

Also Available On Aperture Card

- NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-024-03, REV 0  
 Amend. 9 8/84  
 Amend. 22 2/86

Georgia Power  VOGTLE ELECTRIC GENERATING PLANT UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS) CONTAINMENT BUILDING AREAS 4B AND 4C, LEVEL B  
 FIGURE 3.6.1-1 (SHEET 20 OF 222)

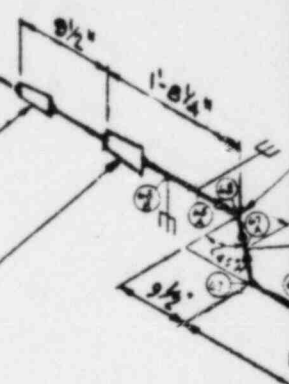
8608210201-06

PIPE BREAK RESTRAINT	THRUST LOAD (KIPS)
PBR-88	48
PBR-89	48

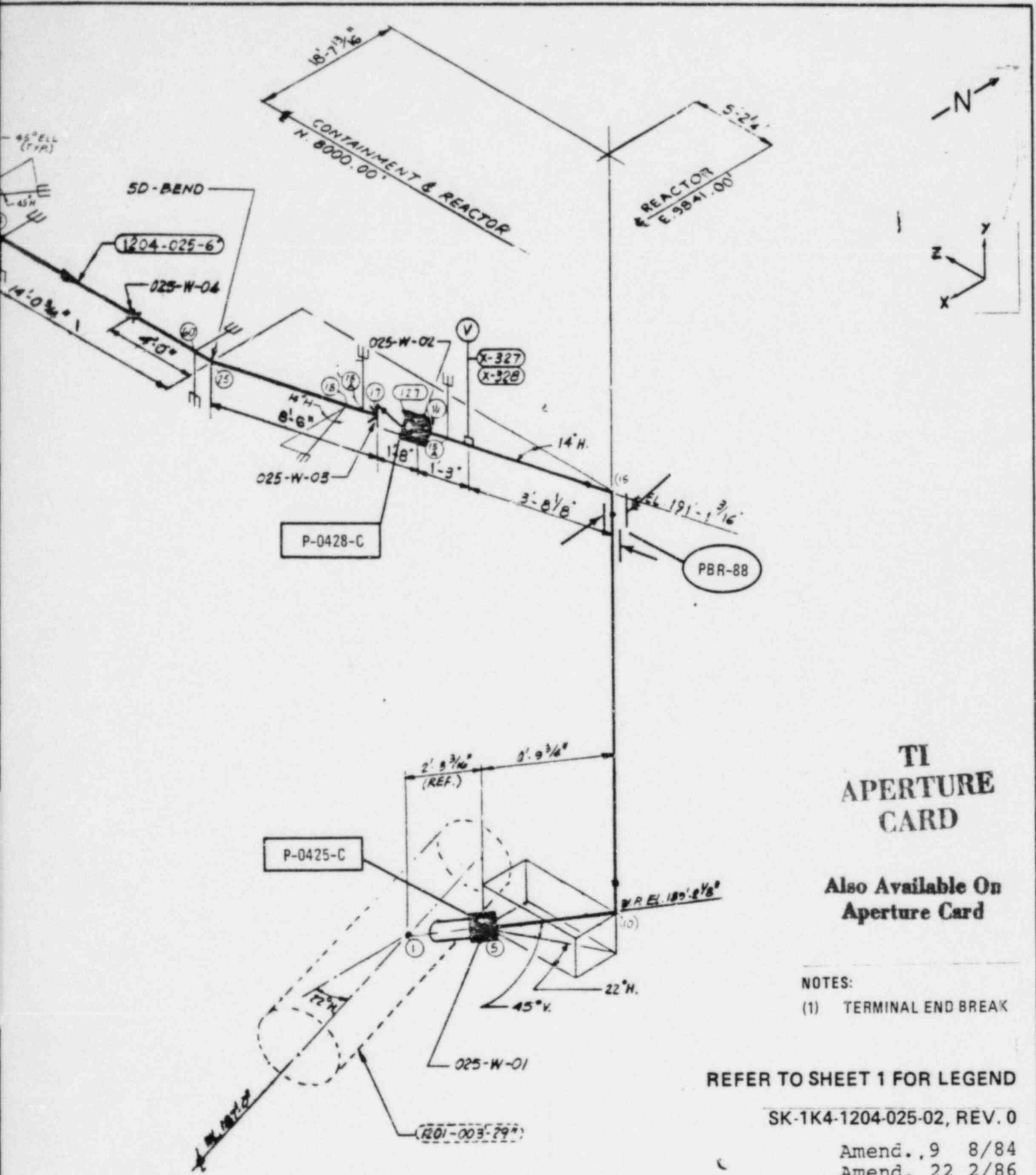
(1204-025-24)  
FOR CONTINUATION  
SEE SHEET 22.

3"x2" RED.

6"x3" RED.



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
5	(1)	(1)	32,880
16	(1)	(1)	32,880



**TI  
APERTURE  
CARD**


**Also Available On  
Aperture Card**

- NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-025-02, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

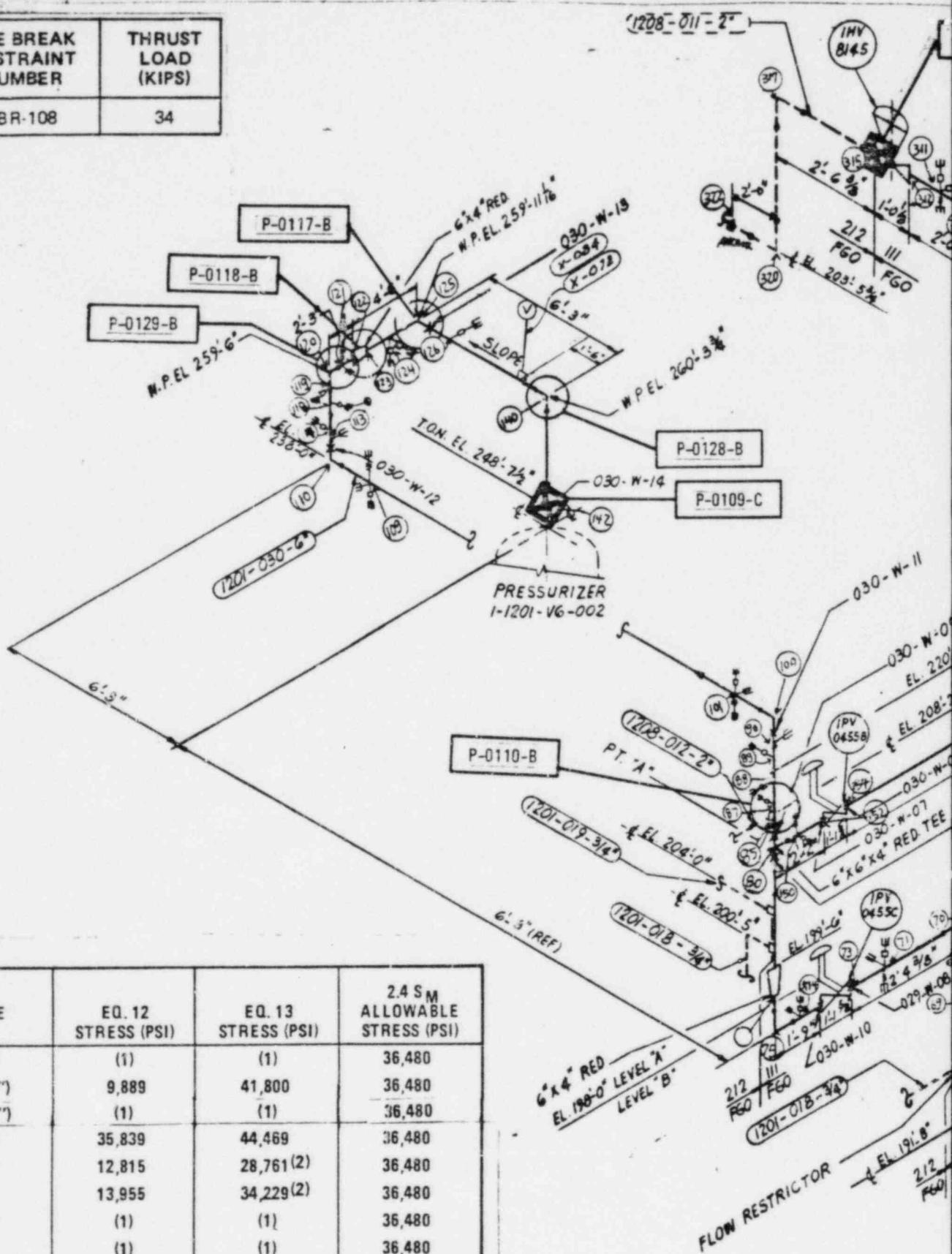
Georgia Power  VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4C, LEVEL B  
FIGURE 3.6.1-1 (SHEET 21 OF 222)

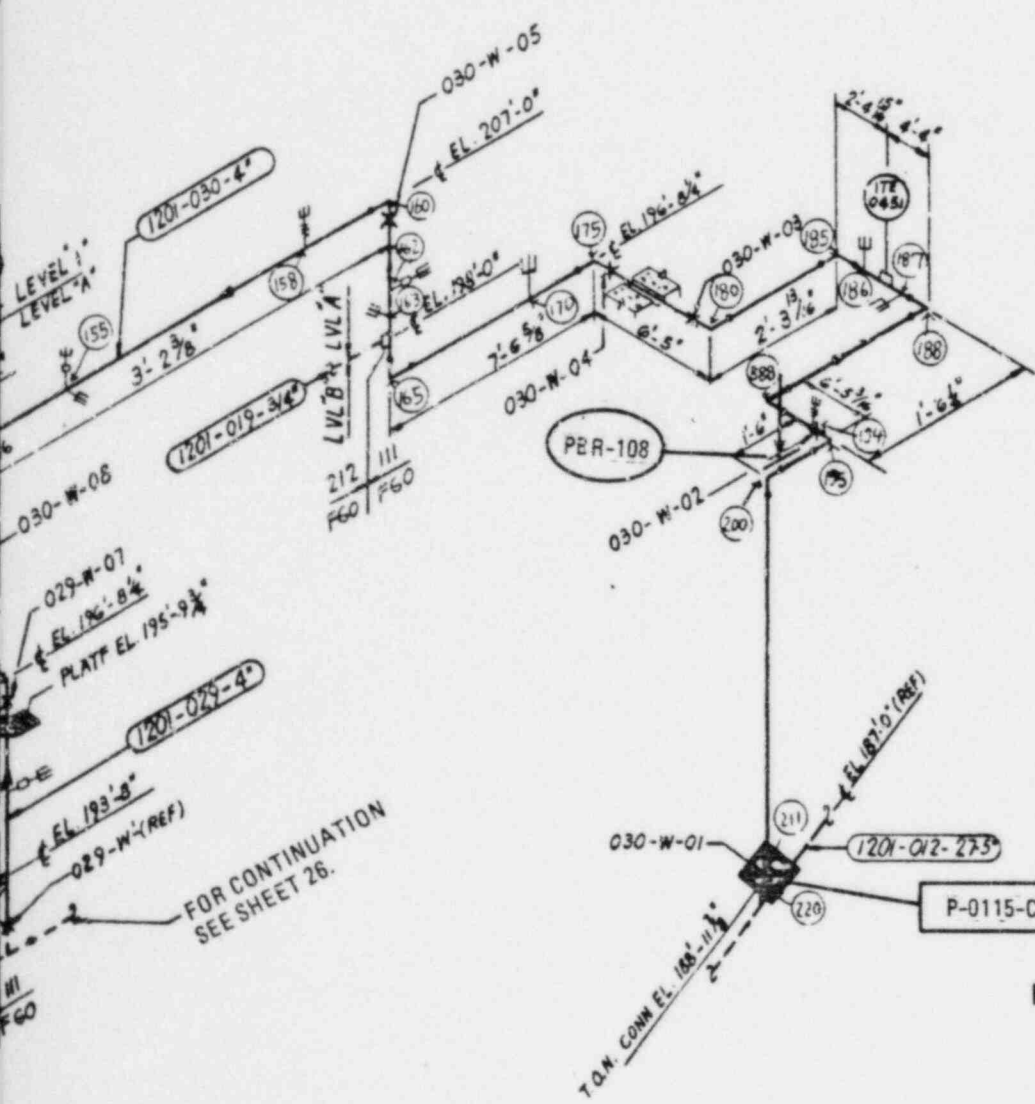
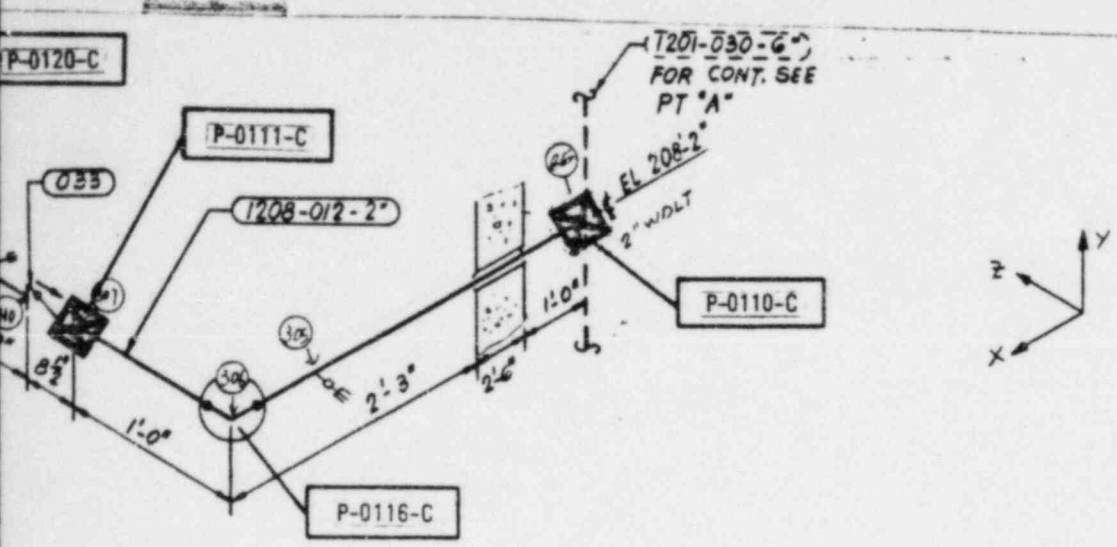
8608210201-07



PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-108	34



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABLE STRESS (PSI)
220	(1)	(1)	36,480
85 (6")	9,889	41,800	36,480
85 (2")	(1)	(1)	36,480
123	35,839	44,469	36,480
125	12,815	28,761 (2)	36,480
140	13,955	34,229 (2)	36,480
142	(1)	(1)	36,480
85	(1)	(1)	36,480
306	22,421	29,049 (2)	36,480
307	(1)	(1)	36,480
315	(1)	(1)	36,480
121	3,039	45,600	36,480



# TI APERTURE CARD

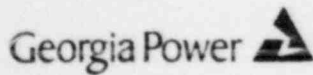
Also Available On Aperture Card

- NOTES:
- (1) TERMINAL END BREAK
  - (2) USAGE FACTOR > 0.1

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-029-02, REV. 0

Amend. .9 8/84  
Amend. 22 2/86

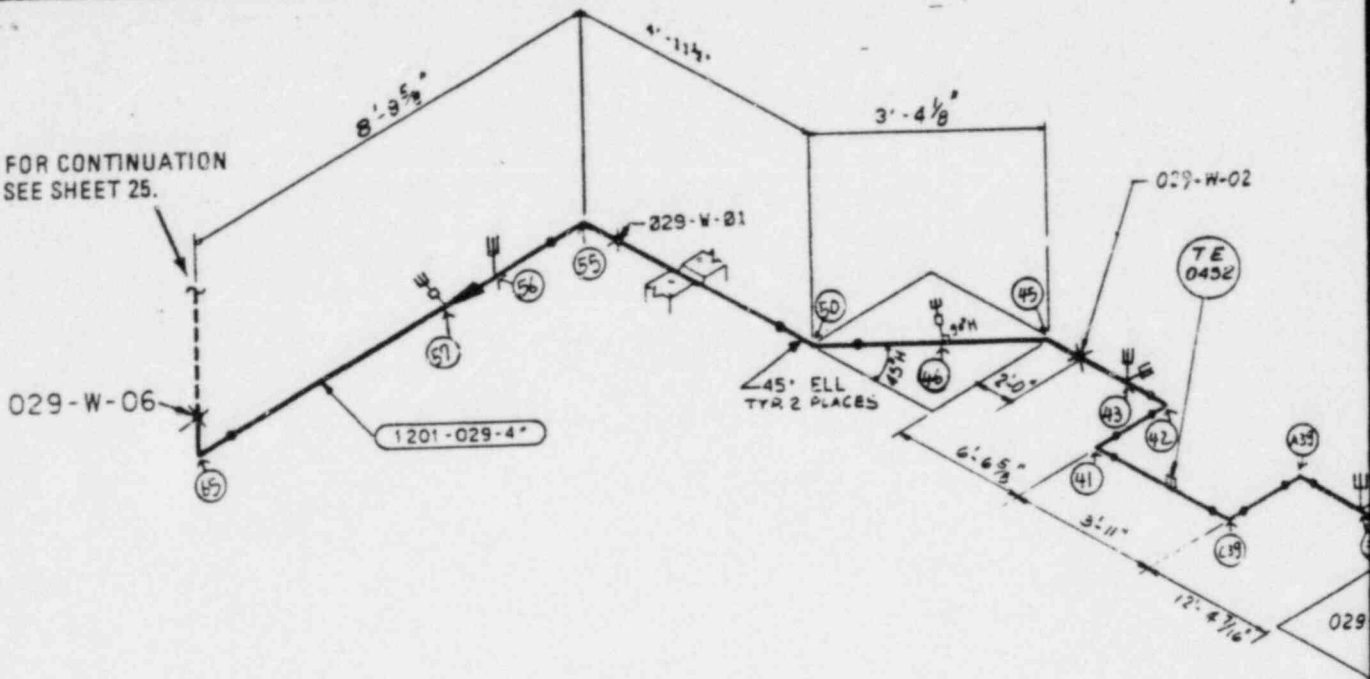


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4D, LEVELS 1, A, AND B  
FIGURE 3.6.1-1 (SHEET 25 OF 222)

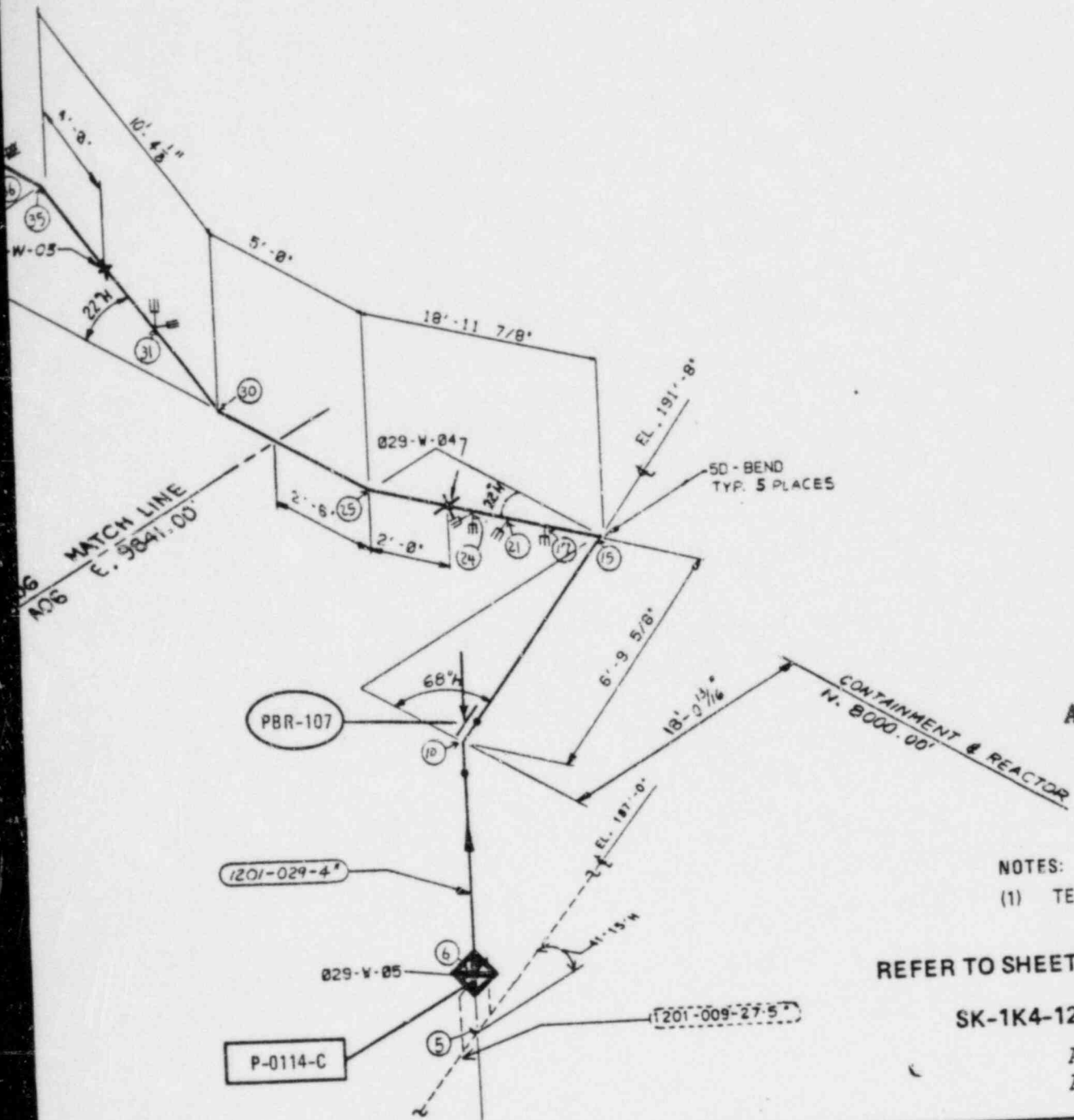
8608210201-08

FOR CONTINUATION  
SEE SHEET 25.



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
6	(1)	(1)	36,480

PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-107	34



### TI APERTURE CARD

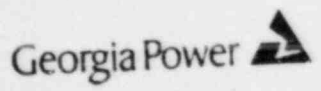
Also Available On Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-029-01, REV. 0

Amend.. 9 8/84  
Amend. 22 2/86



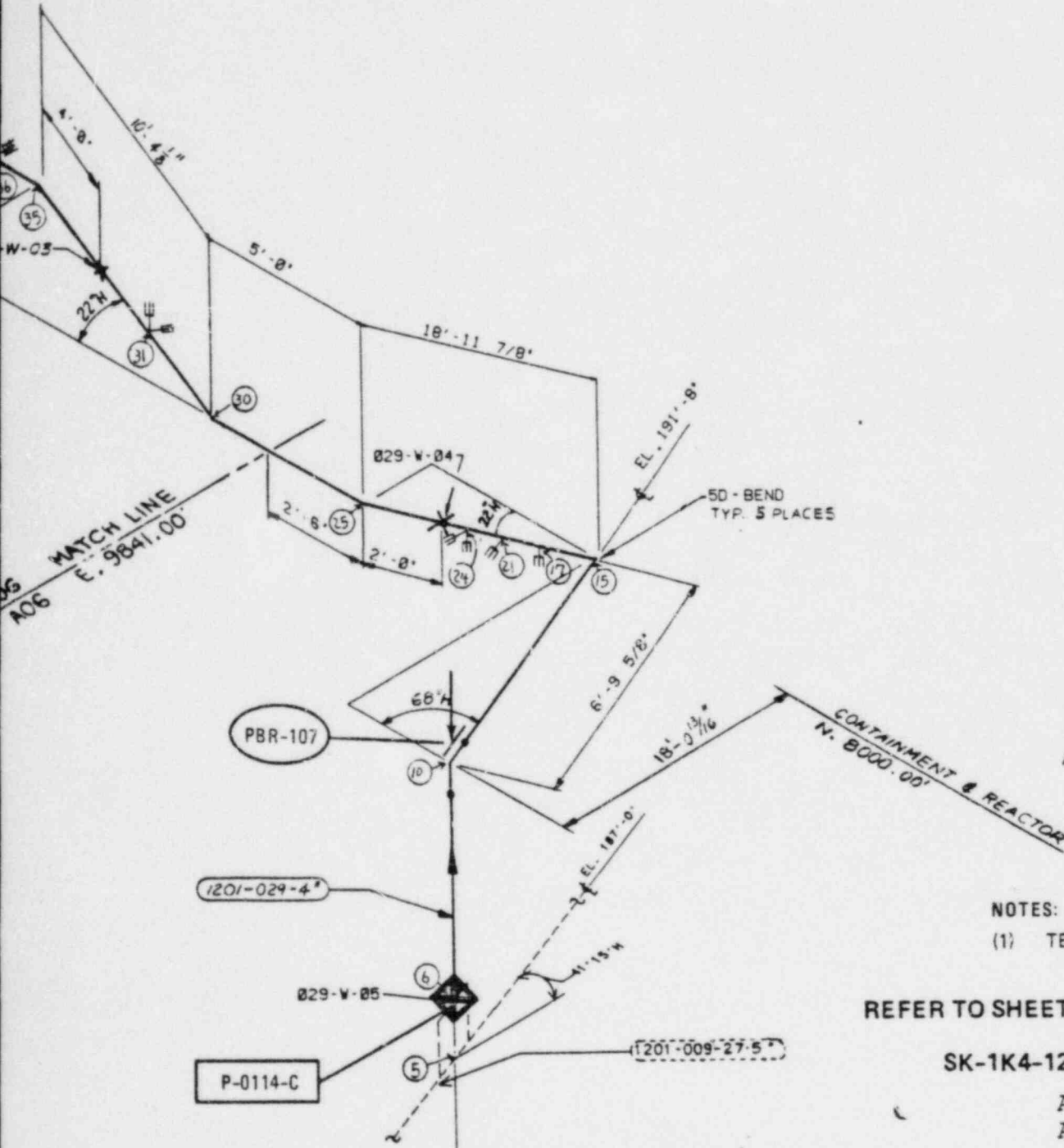
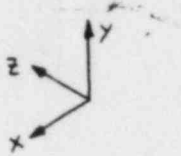
VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREAS 4A AND 4D, LEVEL B

FIGURE 3.6.1-1 (SHEET 26 OF 222)

8608210201-09

PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-107	34



### TI APERTURE CARD

Also Available On Aperture Card

- NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-029-01, REV. 0

Amend.. 9 8/84  
 Amend. 22 2/86

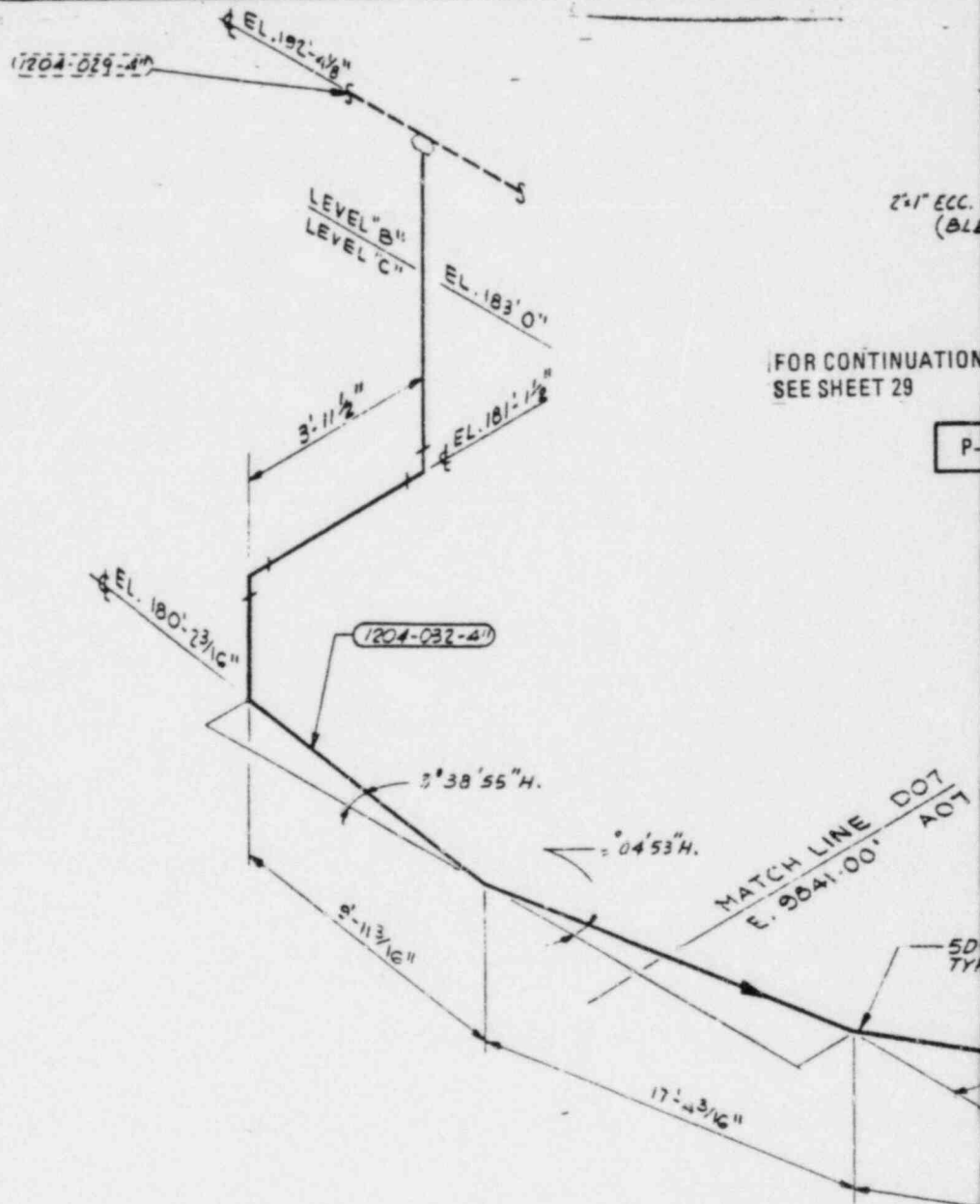
Georgia Power

VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREAS 4A AND 4D, LEVEL B

FIGURE 3.6.1-1 (SHEET 26 OF 222)

8608210201-09



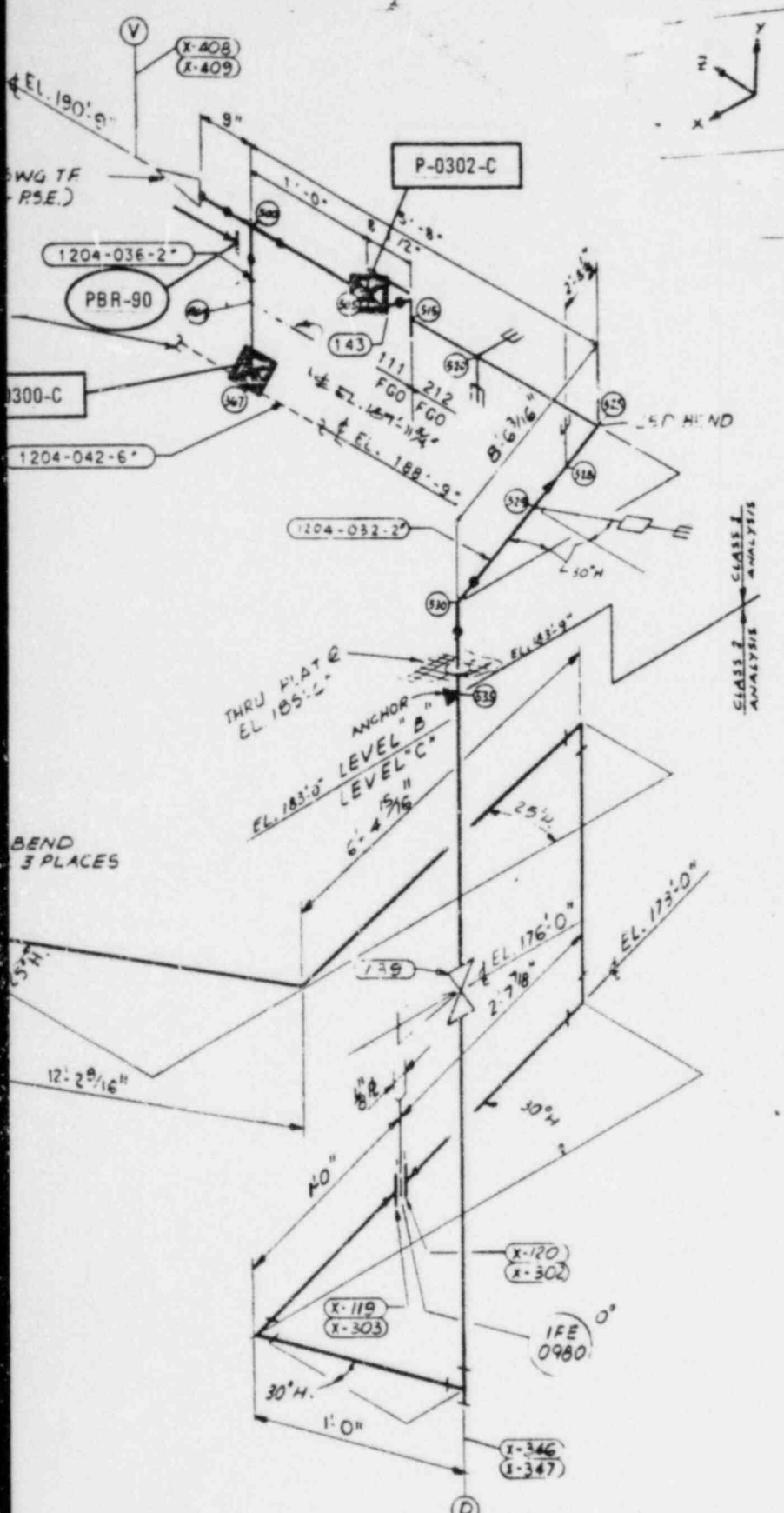
FOR CONTINUATION  
SEE SHEET 29

2" ECC.  
(BL)

P-

MATCH LINE DOT  
E. 9041.00' AOT

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
367	(1)	(1)	39,000
505	(1)	(1)	39,000



PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-90	3

### TI APERTURE CARD

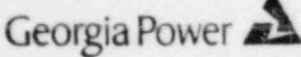
Also Available On Aperture Card

- NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-032-01, REV. 0

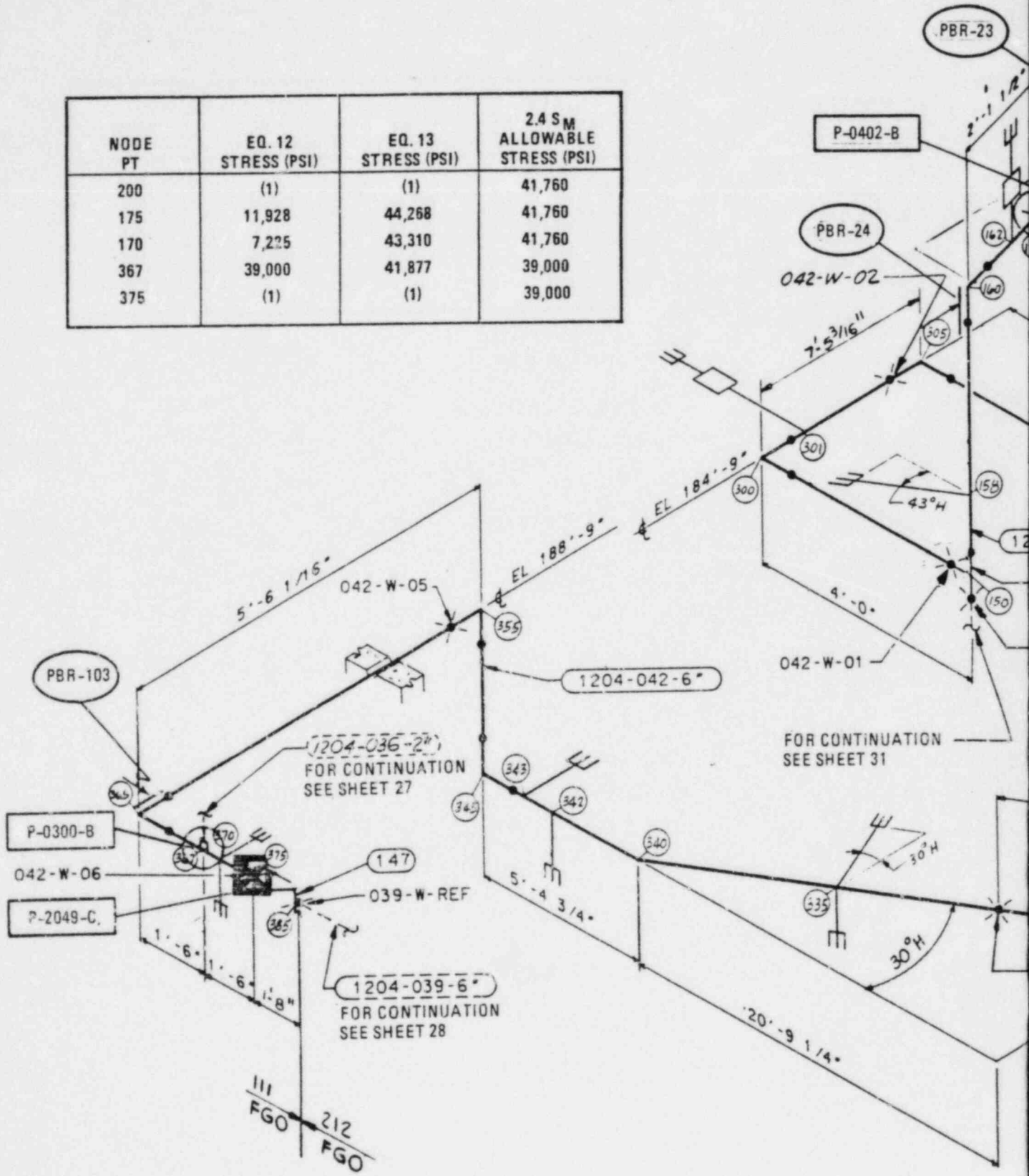
Amend. 9 8/84  
 Amend. 22 2/86


 VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

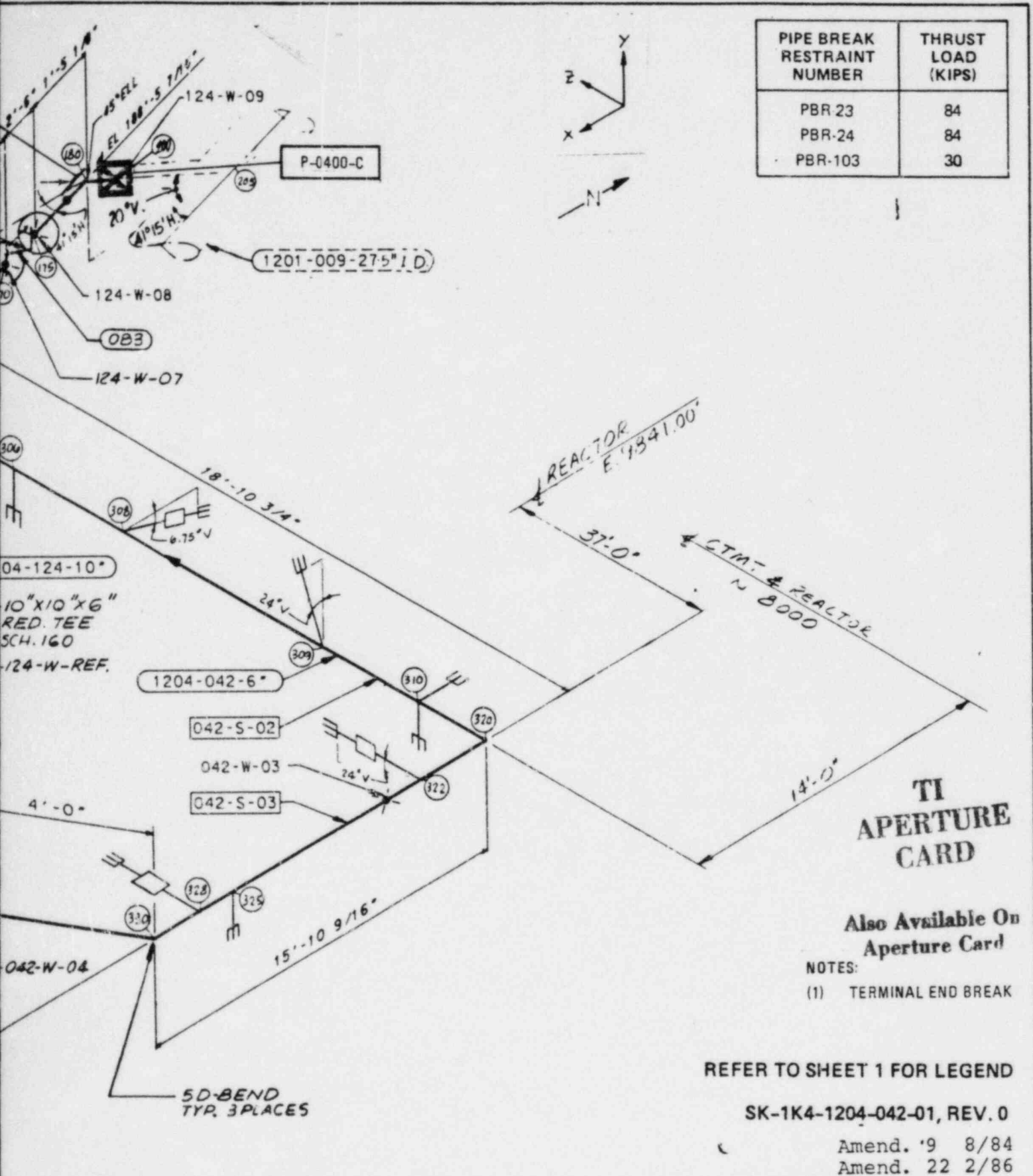
SIS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREAS 4D AND A, LEVELS B AND C  
 FIGURE 3.6.1-1 (SHEET 27 OF 222)

8608210201-10

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
200	(1)	(1)	41,760
175	11,928	44,268	41,760
170	7,225	43,310	41,760
367	39,000	41,877	39,000
375	(1)	(1)	39,000








PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-23	84
PBR-24	84
PBR-103	30

**TI APERTURE CARD**

Also Available On Aperture Card  
 NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

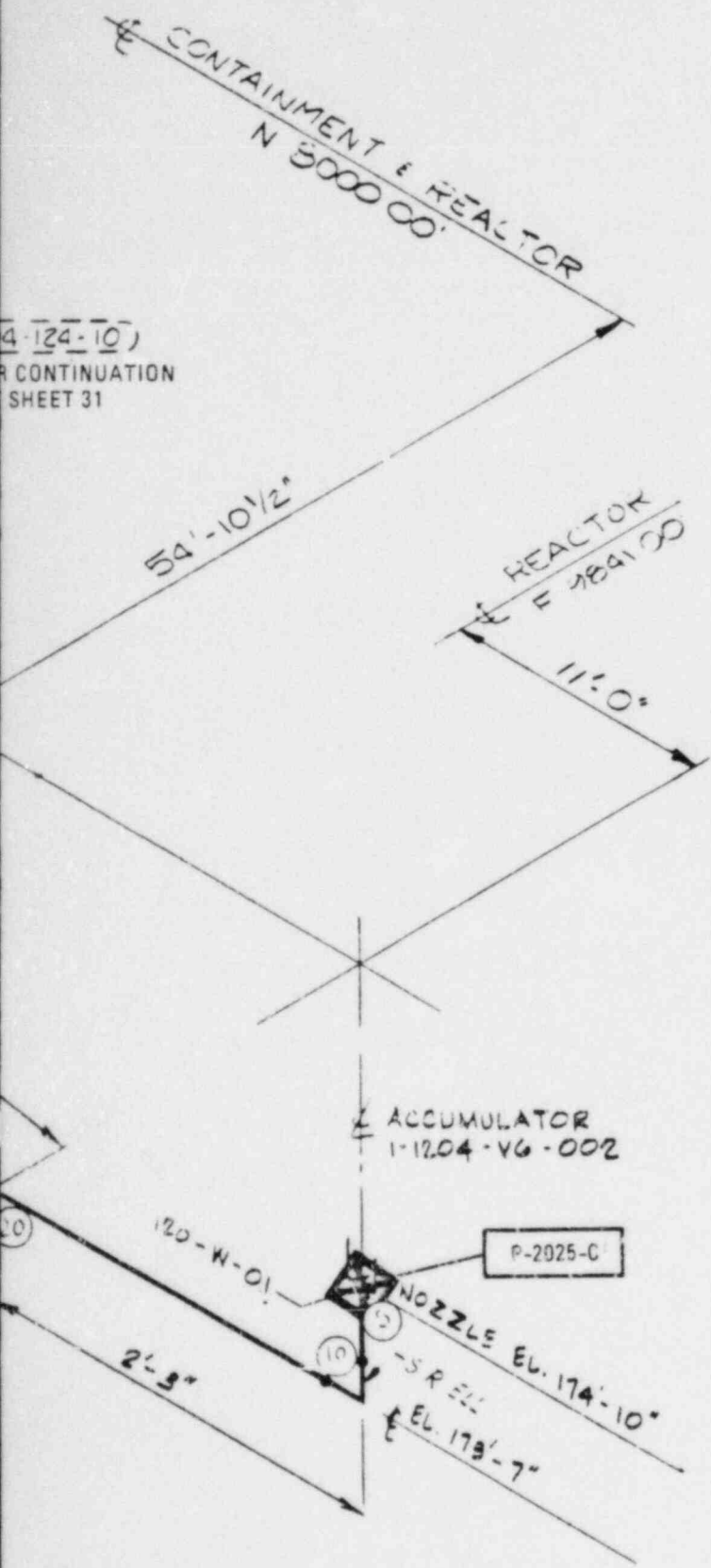
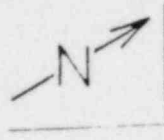
SK-1K4-1204-042-01, REV. 0  
 Amend. '9 8/84  
 Amend. 22 2/86

Georgia Power  VOGTLE ELECTRIC GENERATING PLANT UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4A, LEVEL B  
 FIGURE 3.6.1-1 (SHEET 29 OF 222)



4-124-10)  
CONTINUATION  
SHEET 31



# TI APERTURE CARD

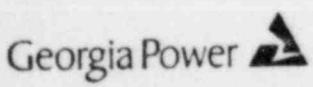
Also Available On Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-120-02, REV. 0

Amend. 9 8/84  
Amend. 22 2/86



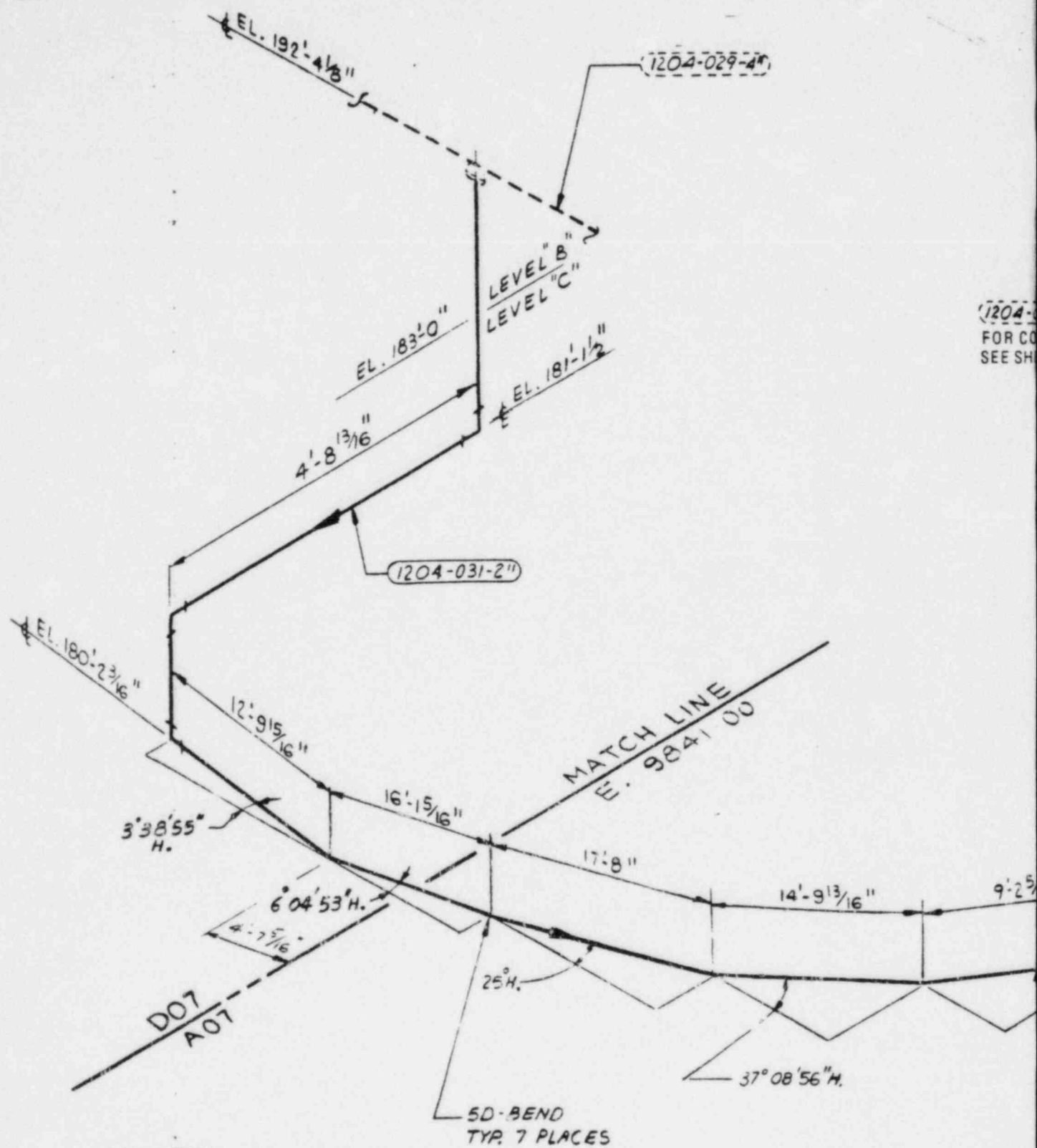
VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4A, LEVEL C

FIGURE 3.6.1-1 (SHEET 30 OF 222)

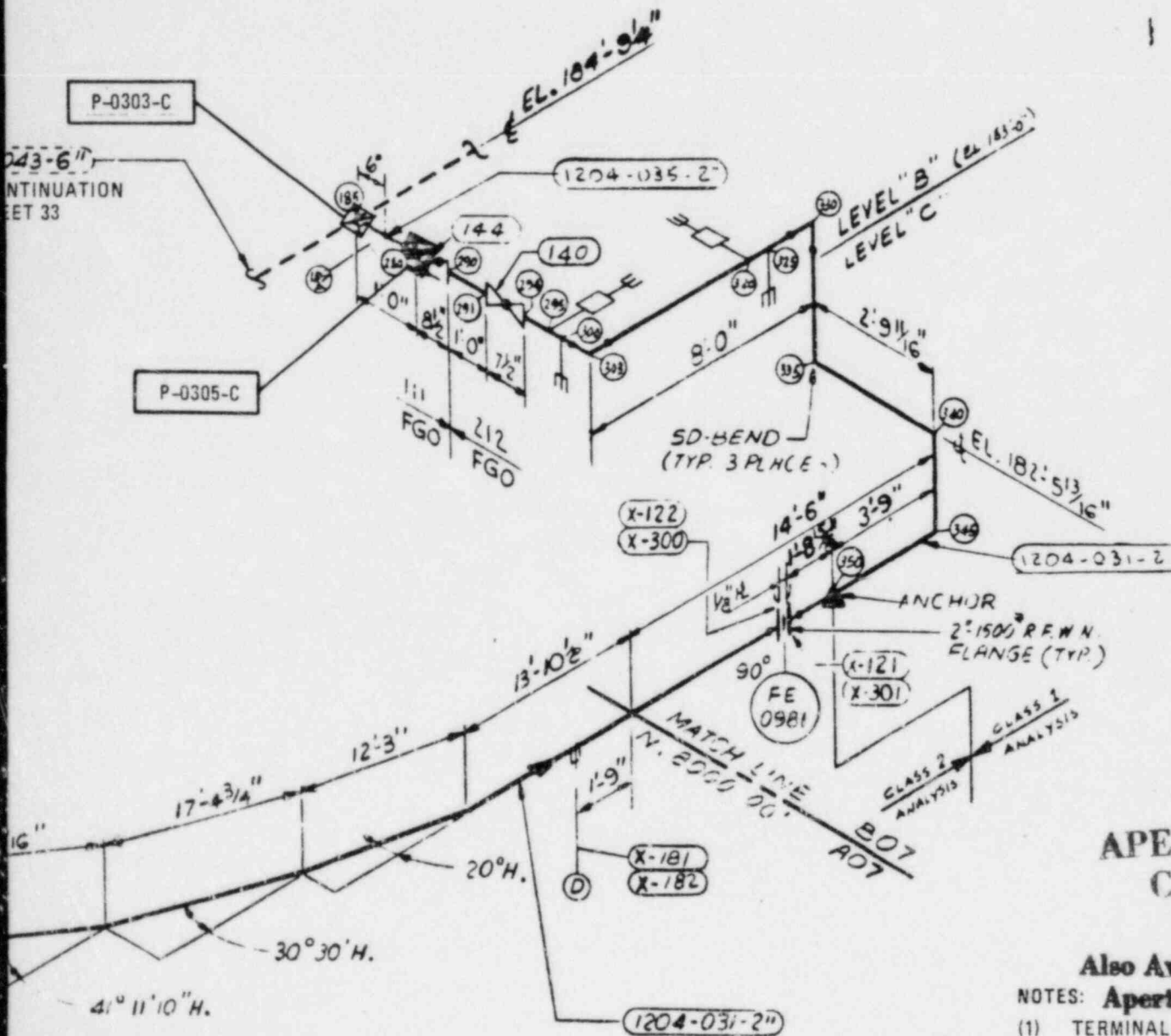
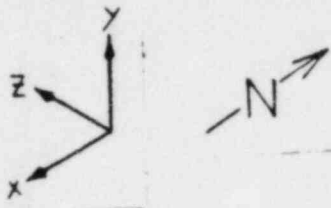
8608210201-12

REV D 1/83



1204-  
FOR CO  
SEE SH

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
185	(1)	(1)	39,000
280	(1)	(1)	39,000



### TI APERTURE CARD

Also Available On  
 NOTES: Aperture Card  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-031-01, REV. 0

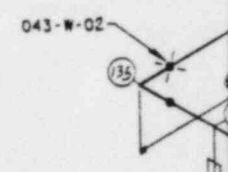
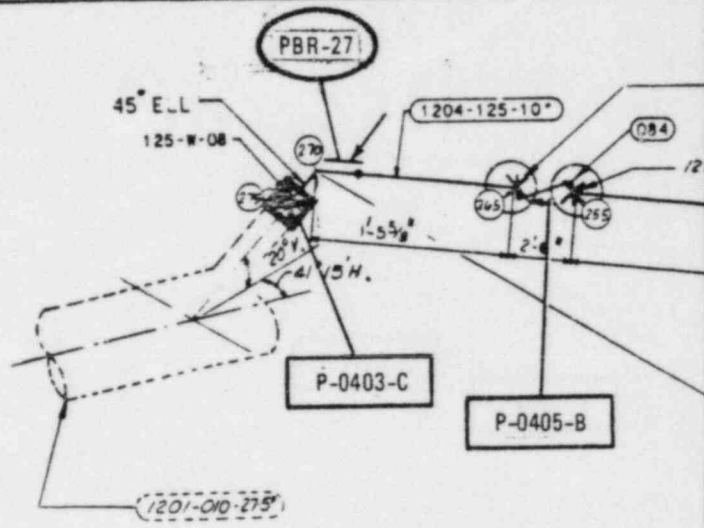
Amend. 9 8/84  
 Amend. 22 2/86



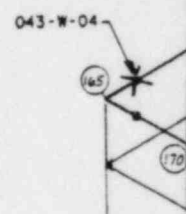
VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREAS 4A, 4C, AND 4D, LEVELS B AND C  
 FIGURE 3.6.1-1 (SHEET 32 OF 222)

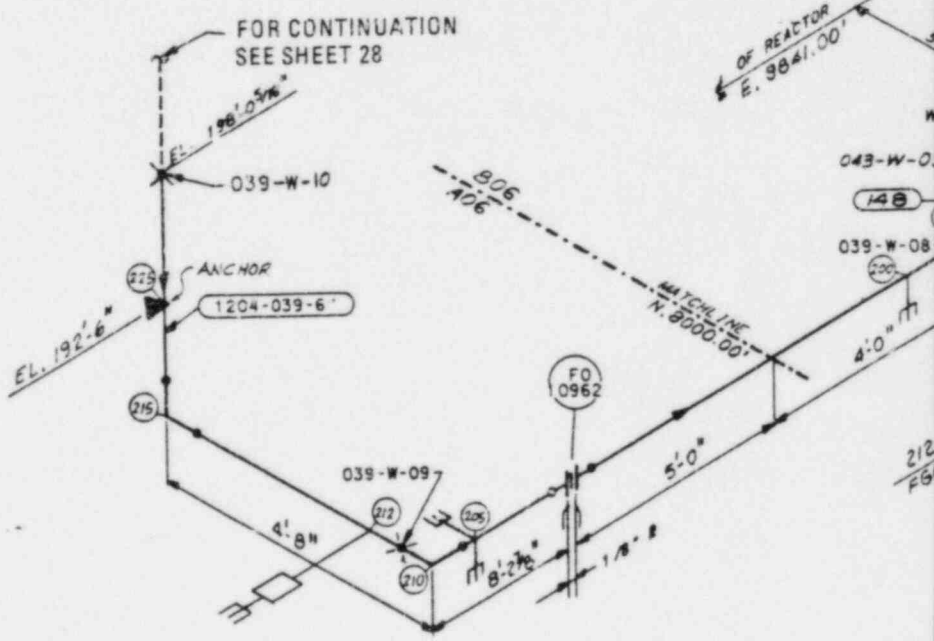
8608210201-13

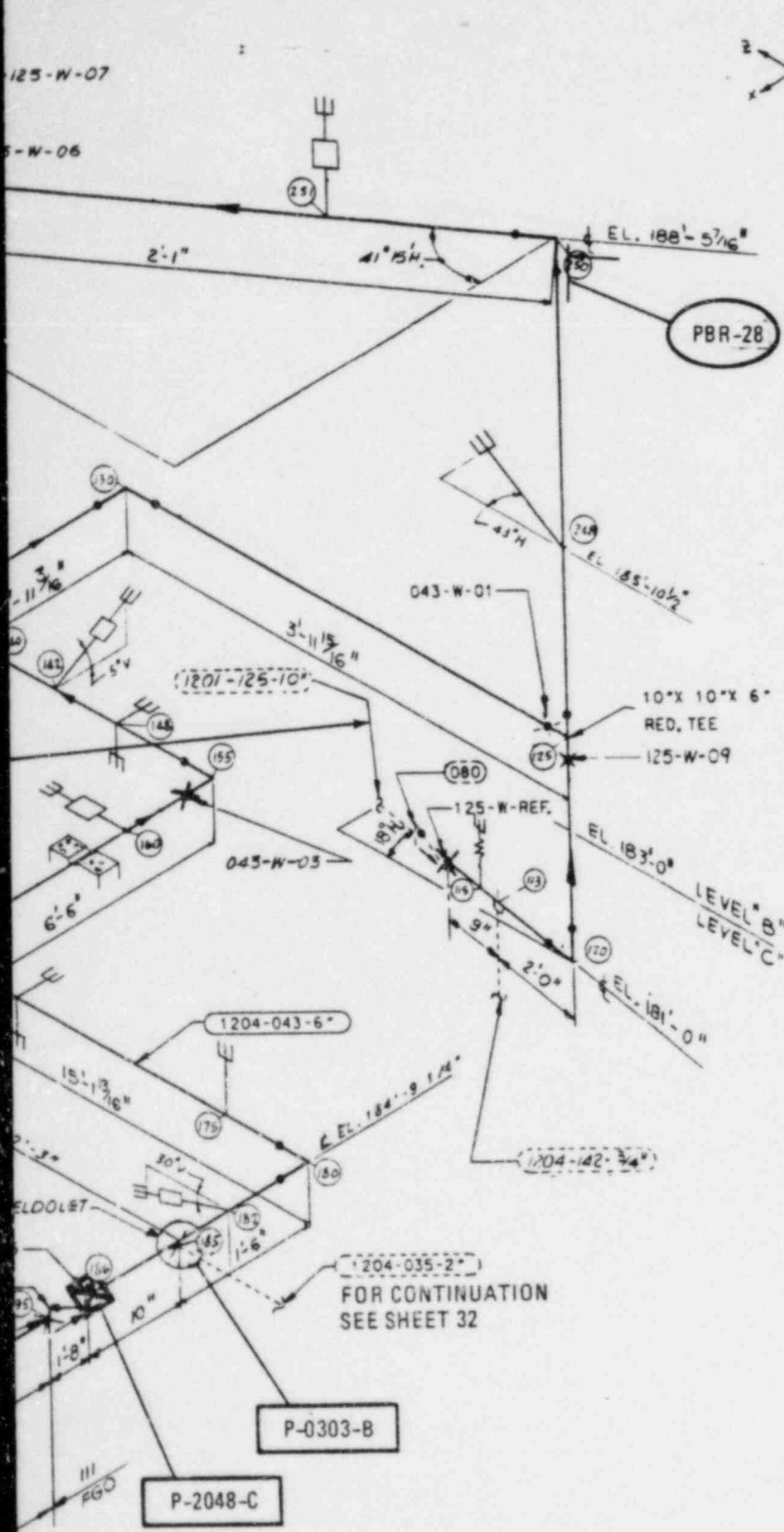


FOR CONTINUATION  
SEE SHEET 34



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
275	(1)	(1)	41,760
265	9,967	44,761	41,760
255	5,339	44,855	41,760
185	39,000	41,316	39,000
186	(1)	(1)	39,000





PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-27	84
PBR-28	84

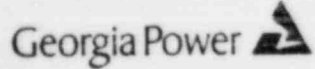
### TI APERTURE CARD

Also Available On Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

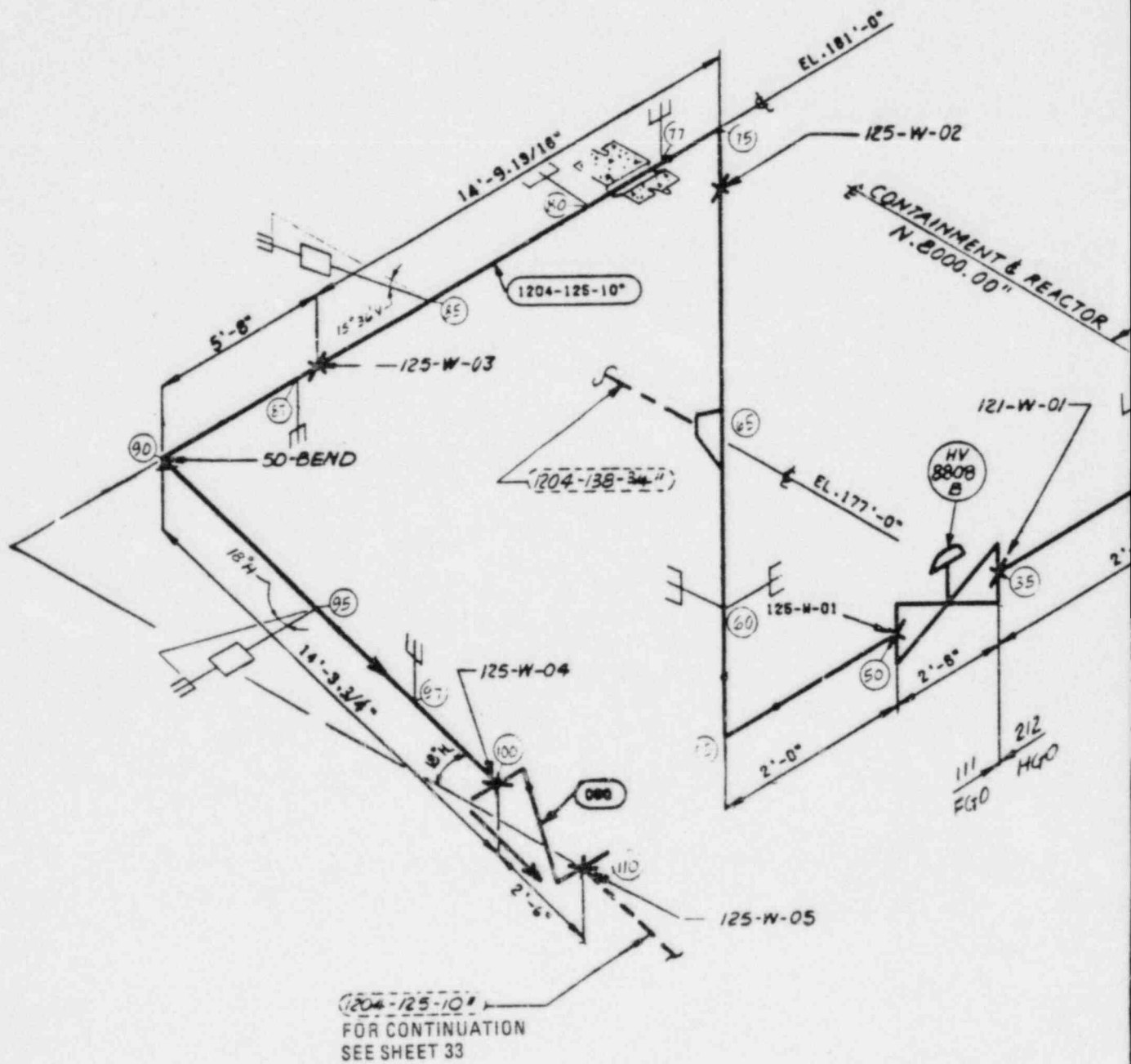
SK-1K4-1204-039-02, REV. 0  
Amend. 9 8/84  
Amend. 22 2/86



VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

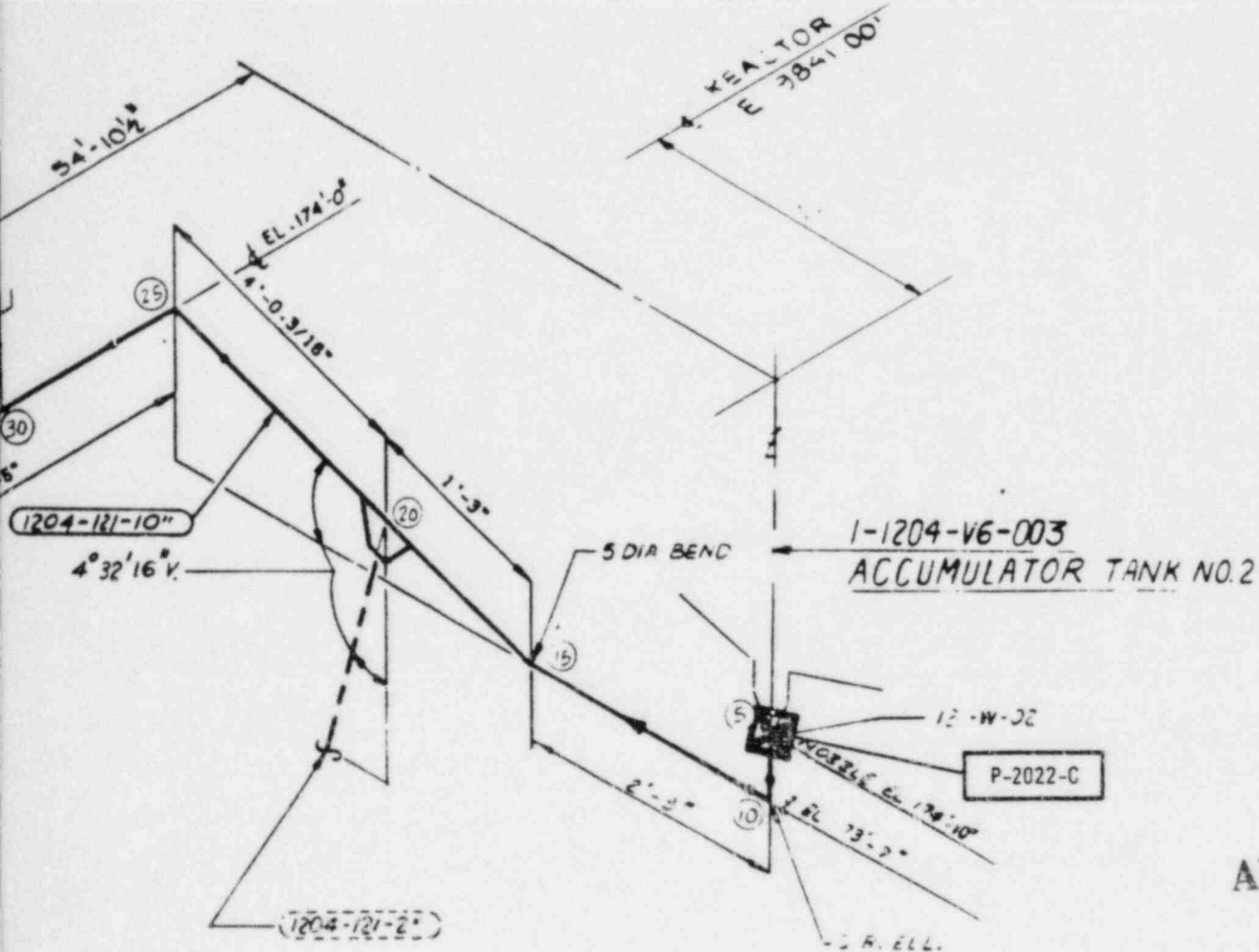
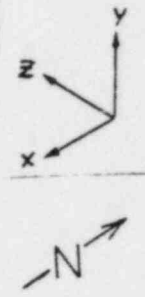
SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREAS 4A AND 4B, LEVELS B AND C  
FIGURE 3.6.1-1 (SHEET 33 OF 222)

8608210201-14



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
5	(1)	(1)	41,760






**TI  
APERTURE  
CARD**

Also Available On  
 NOTES: Aperture Card  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

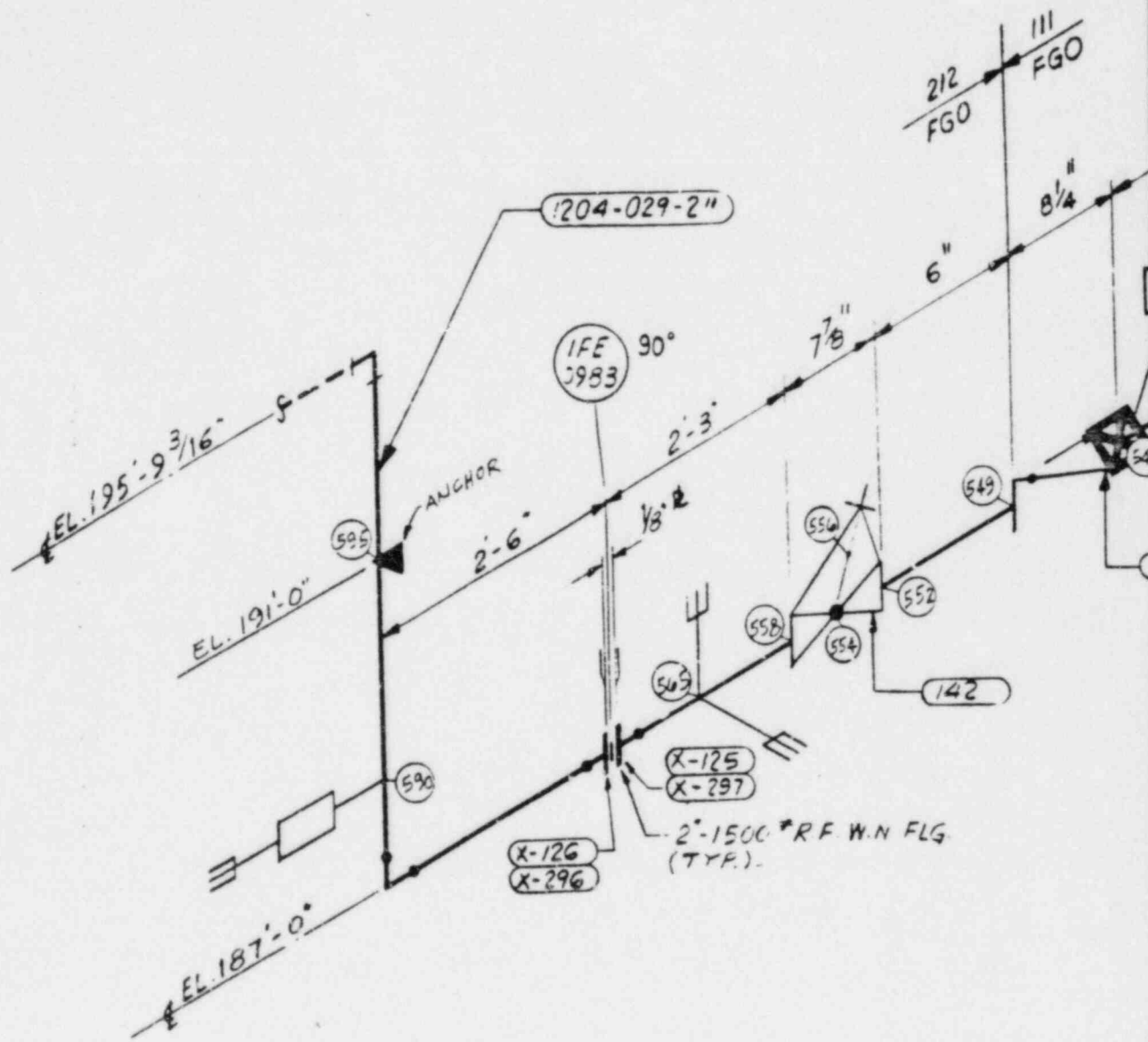
SK-1K4-1204-125-01, REV. 0

Amend. 9' 8/84  
 Amend. 22 2/86

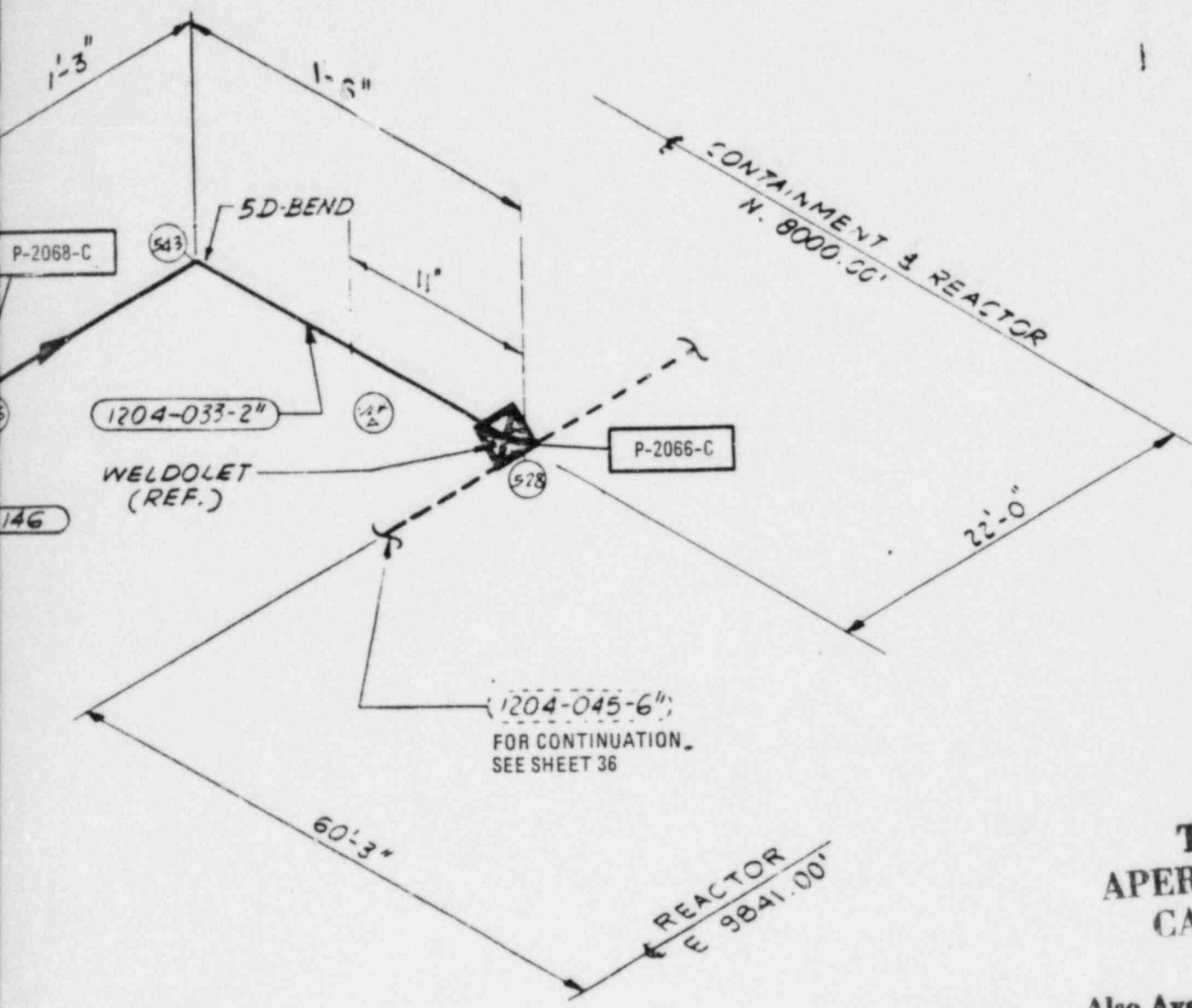
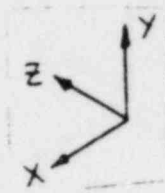
Georgia Power  VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4B, LEVEL C  
 FIGURE 3.6.1-1 (SHEET 34 OF 222)

8608210201-15



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
528	(1)	(1)	39,000
545	(1)	(1)	39,000



**TI  
APERTURE  
CARD**


Also Available On  
Aperture Card

- NOTES:  
(1) TERMINAL END BREAK

**REFER TO SHEET 1 FOR LEGEND**

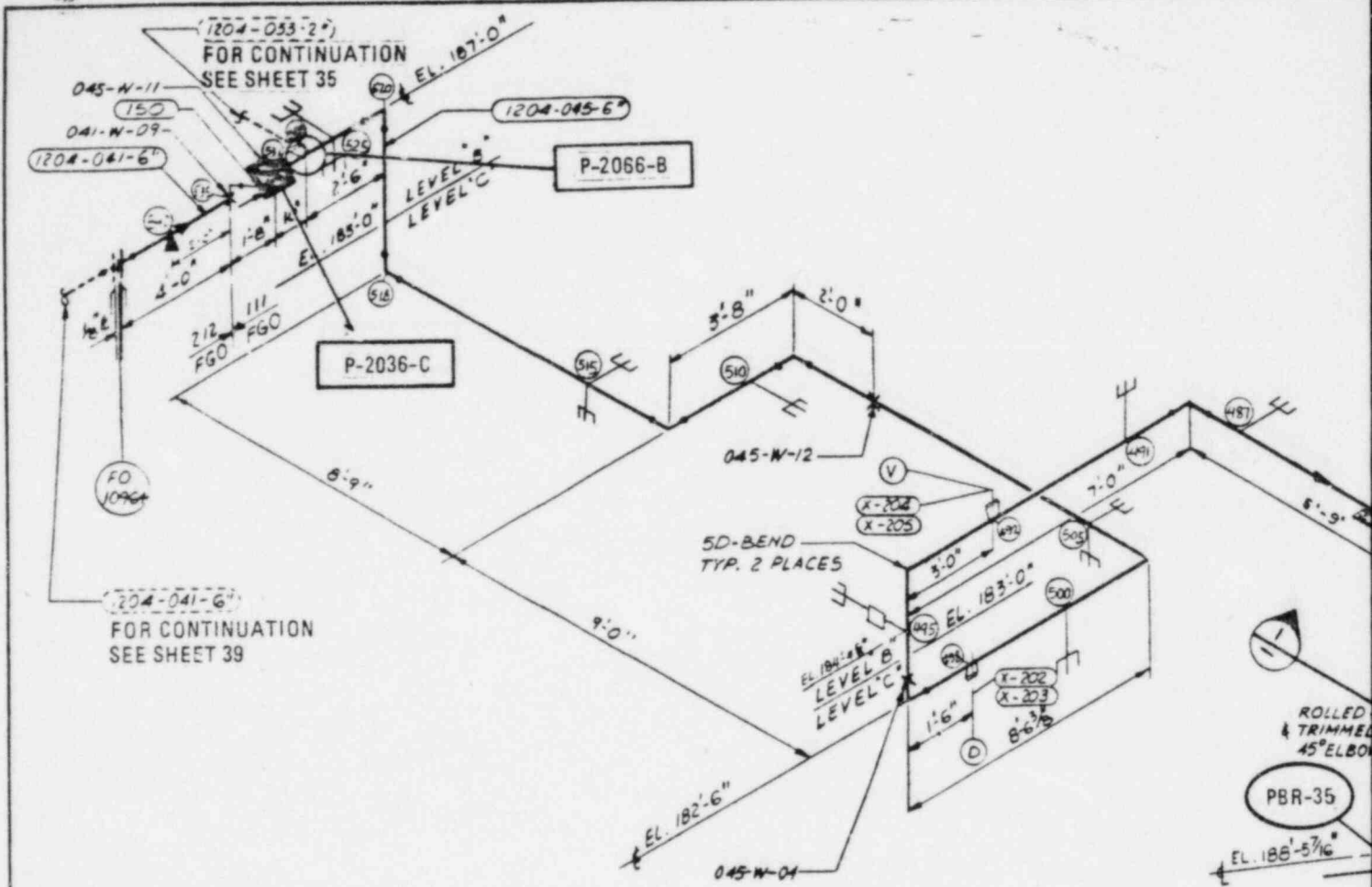
**SK-1K4-1204-029-03, REV. 0**

- Amend. 9 8/84
- Amend. 22 2/86

Georgia Power  VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4D, LEVEL B  
FIGURE 3.6.1-1 (SHEET 35 OF 222)

8608210201-16



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
390	(1)	(1)	41,760
400	7,297	44,474	41,760
404	2,965	43,950	41,760
528	28,395	40,780	39,000
531	(1)	(1)	39,000



CONTAINMENT & REACTOR  
 N. 8000 00'

54'-10 1/2"

11'-0"

REACTOR  
 E. 984

1-1204-V6-CCS  
 ACCUMULATOR TANK  
 A54

P-2017-C

NOZZLE EL. 174'-11"

EL. 173'-7"

123-W-01

S.R. ELL

1'-3" 4'-0 3/16"

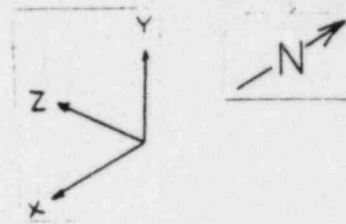
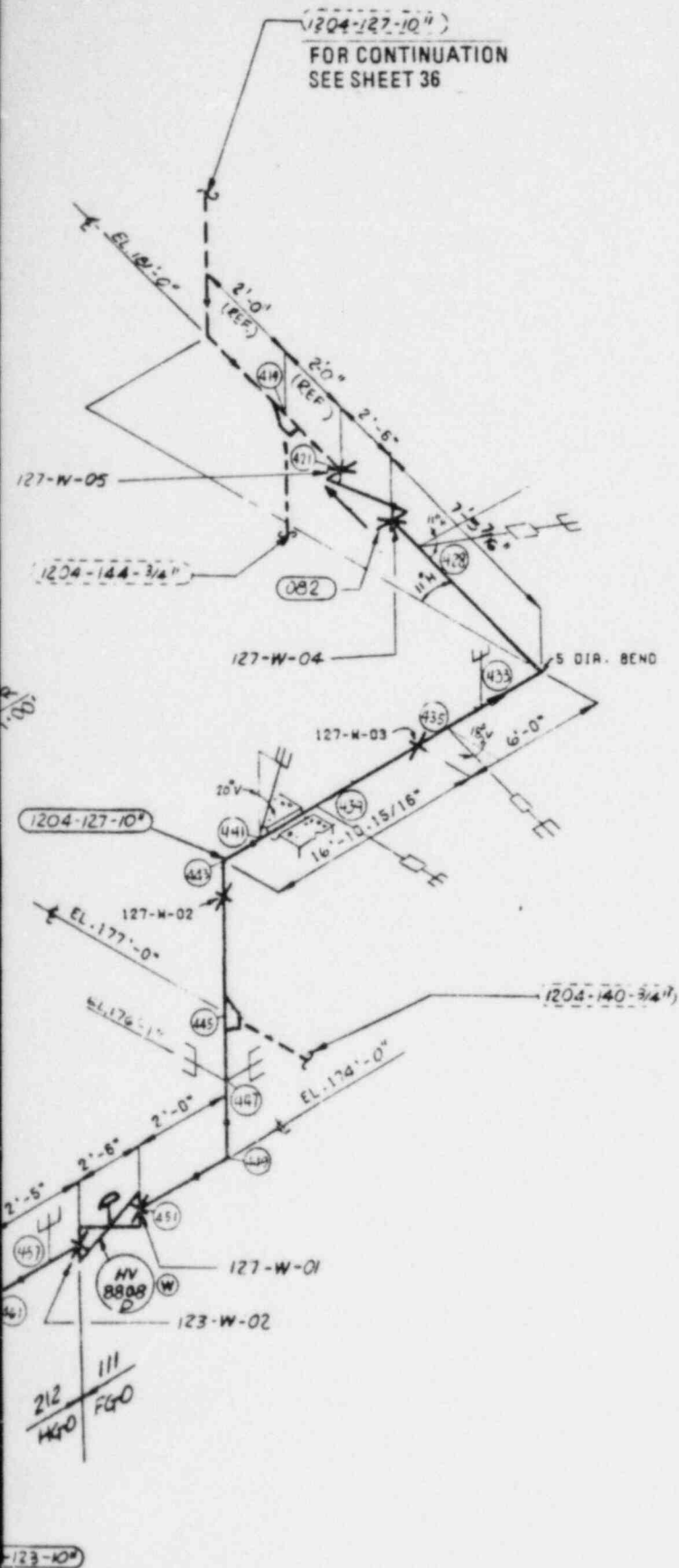
2'-3"

SD-BEND

(204-123-2")

1204

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
467	(1)	(1)	41,760



**TI  
APERTURE  
CARD**

**Also Available On  
Aperture Card**

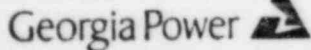
- NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-123-02, REV. 0

Amend. 9. 8/84

Amend. 22 2/86

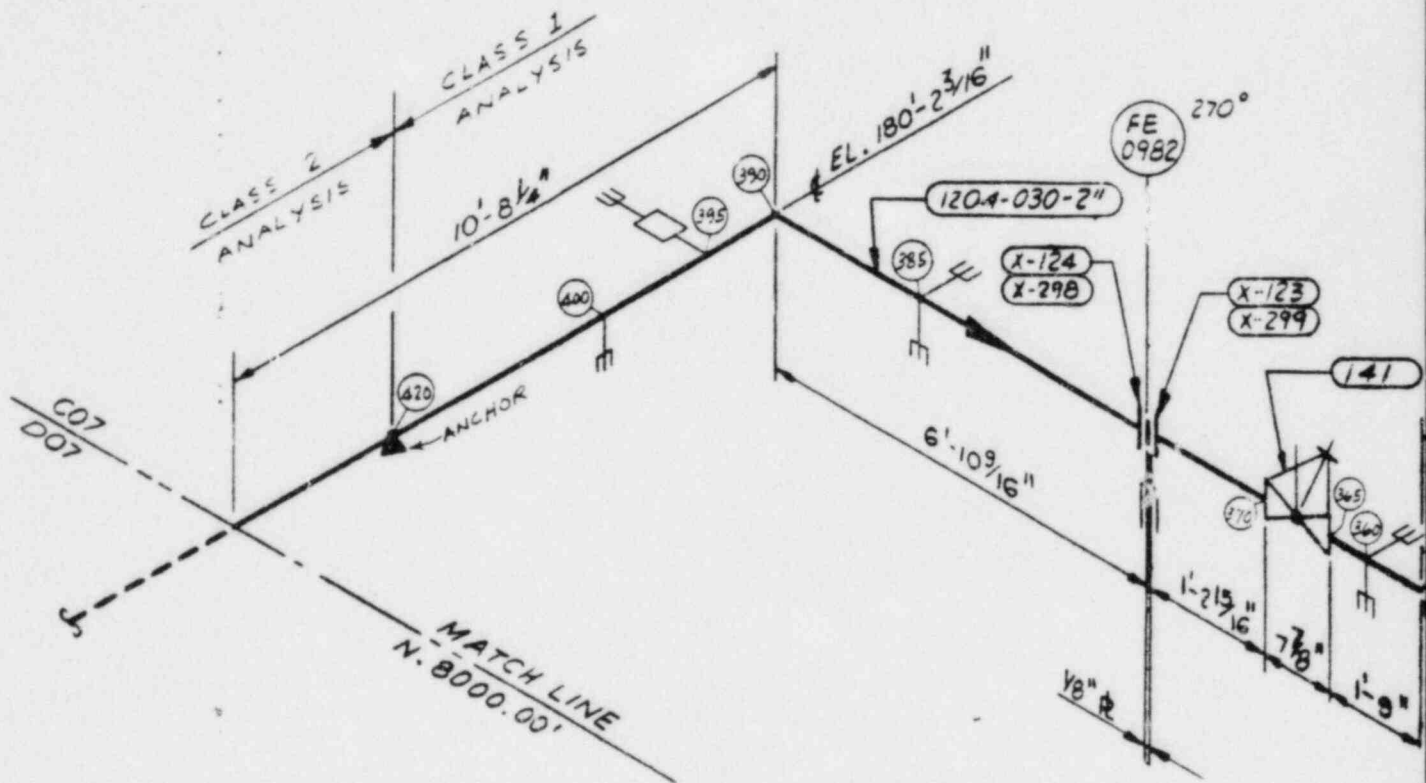


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4D, LEVEL C

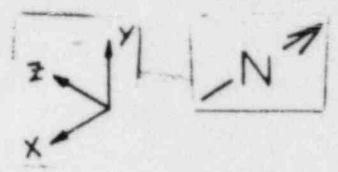
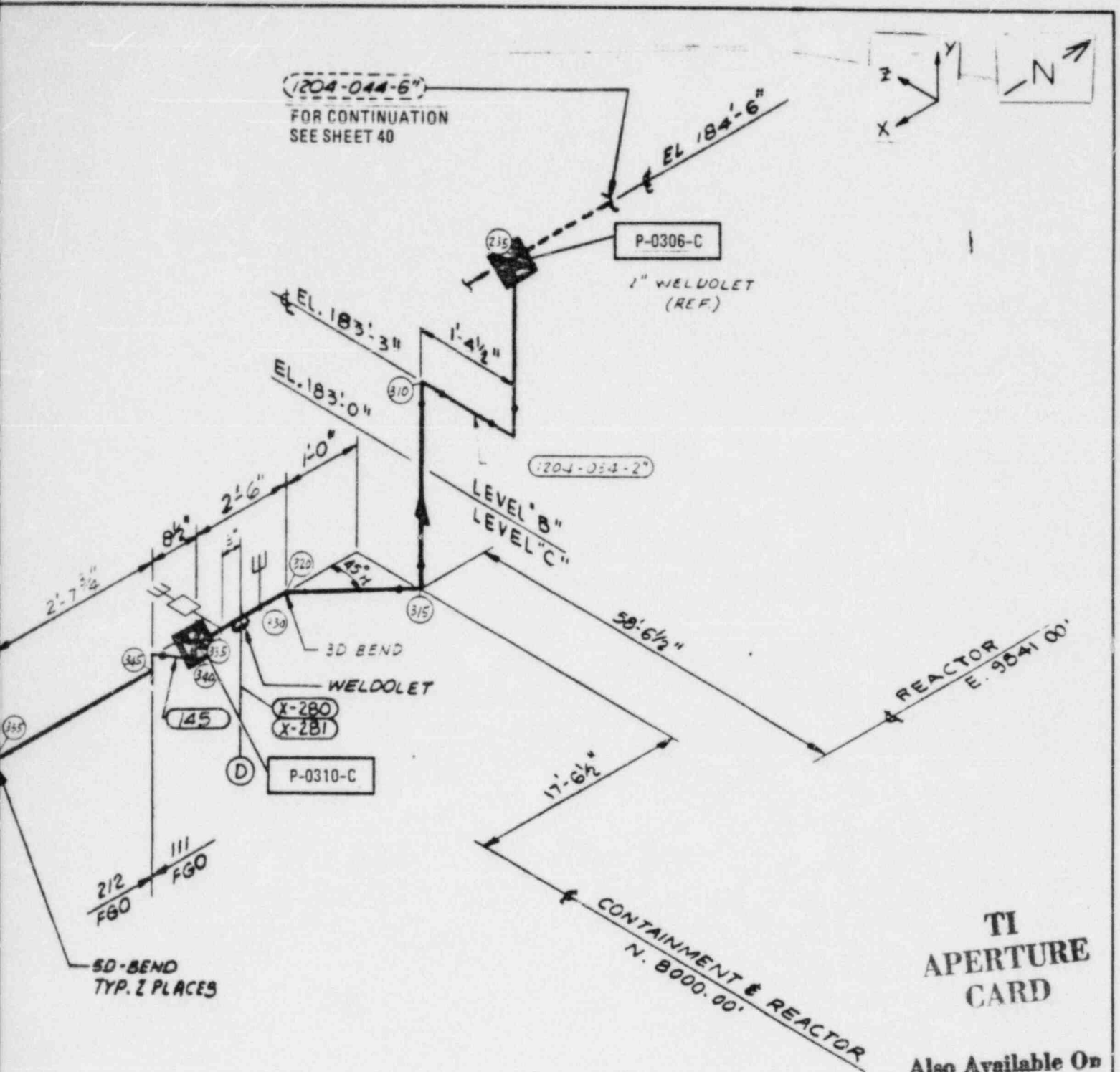
FIGURE 3.6.1-1 (SHEET 37 OF 222)

8608210201-18



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
235	(1)	(1)	39,000
340	(1)	(1)	39,000





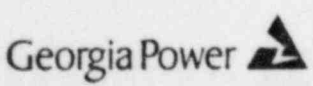
**TI  
APERTURE  
CARD**

Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-030-02, REV. 0  
Amend. 9 8/84  
Amend. 22 2/86

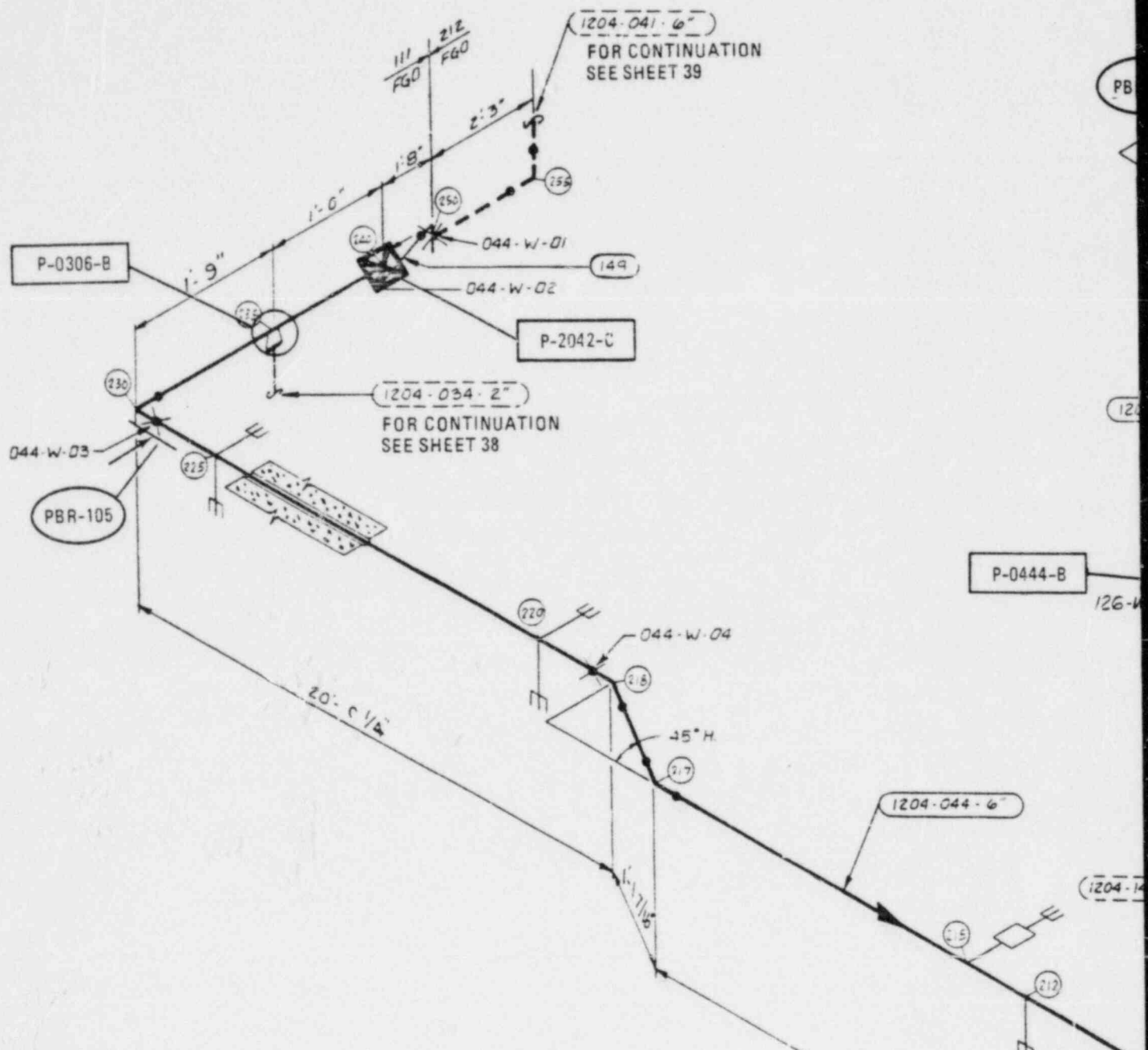


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4C, LEVELS B AND C

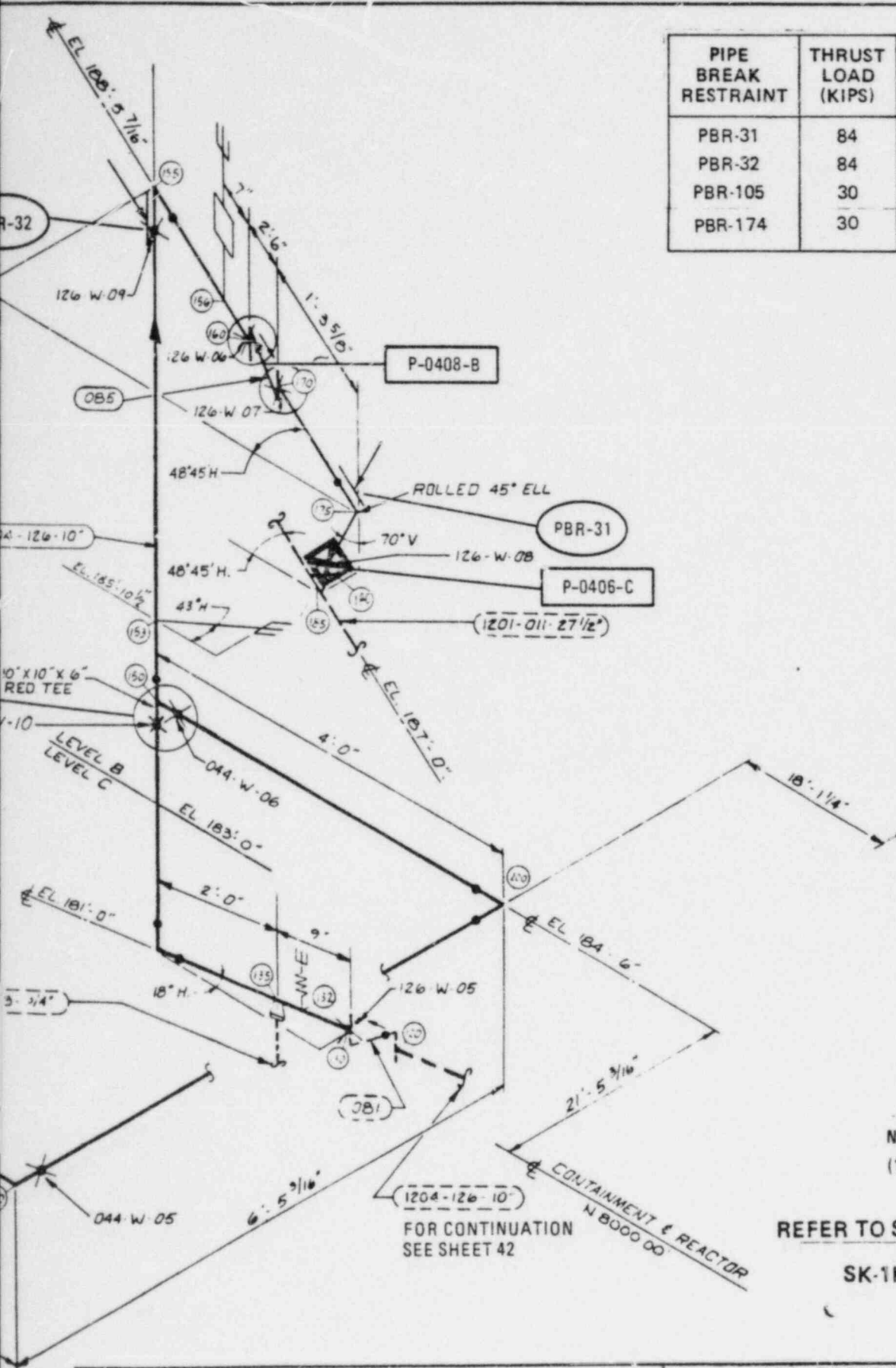
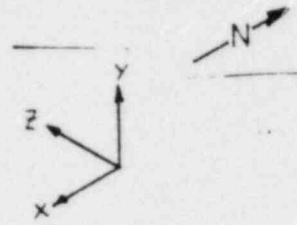
FIGURE 3.6.1-1 (SHEET 38 OF 222)

8608210201 -19



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
180	(1)	(1)	41,760
170	13,601	44,122	41,760
160	11,271	43,316	41,760
235	39,000	44,020	39,000
240	(1)	(1)	39,000
150	20,366	45,688	39,000

PIPE BREAK RESTRAINT	THRUST LOAD (KIPS)
PBR-31	84
PBR-32	84
PBR-105	30
PBR-174	30



# TI APERTURE CARD

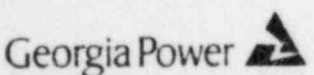
Also Available On Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-044-01, REV. 0

Amend. 9 ' 8/84  
Amend. 22 2/86

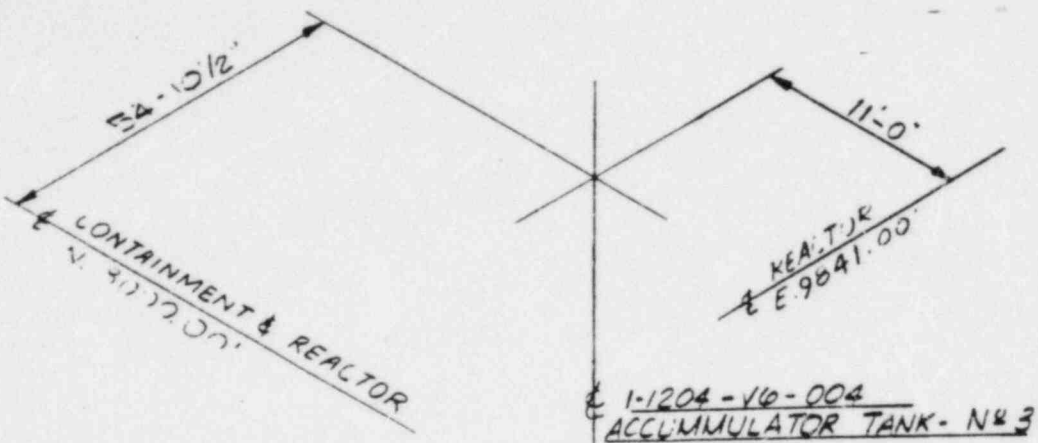


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

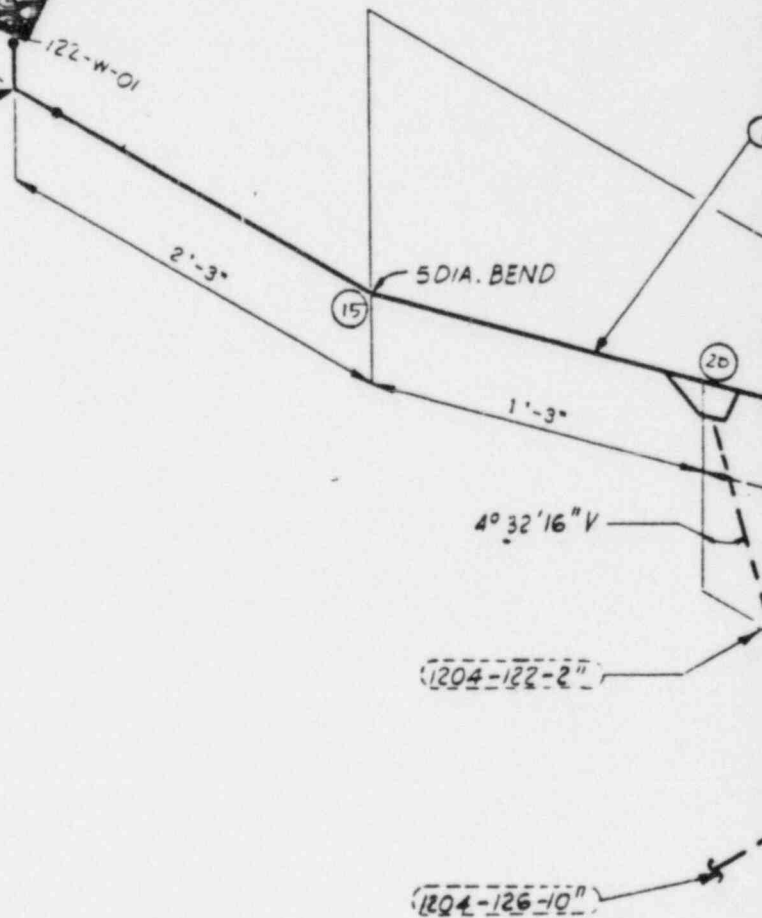
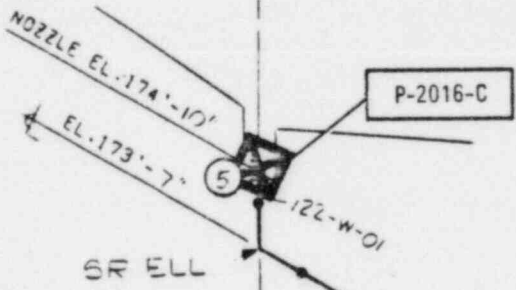
SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4C, LEVELS B AND C

FIGURE 3.6.1-1 (SHEET 40 OF 222)

8608210201-20

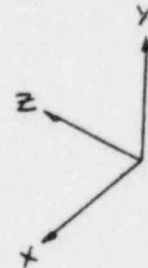
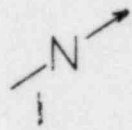


1-1204-V6-004  
ACCUMULATOR TANK - NR 3

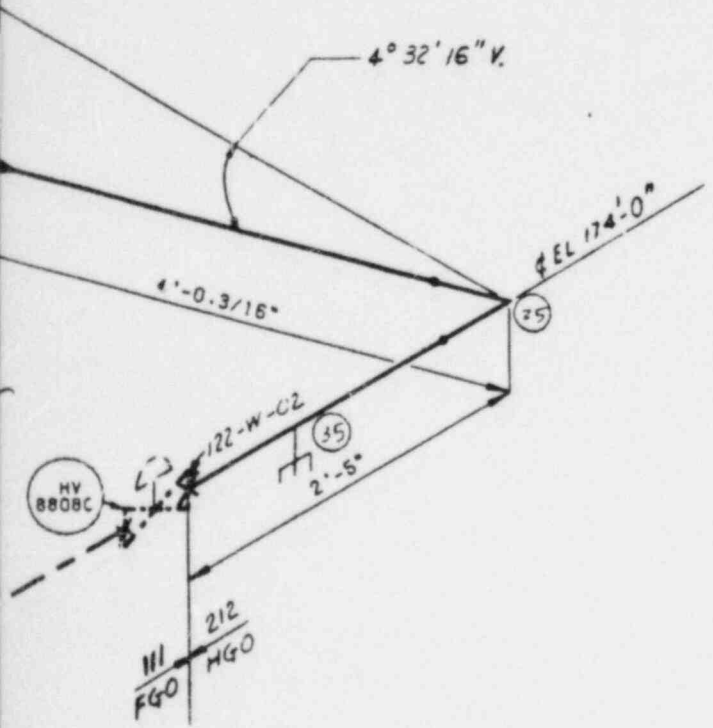


FOR CONTINUATION  
SEE SHEET 42

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
5	(1)	(1)	41,760



204-122-10"



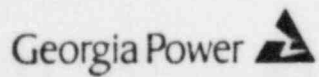
# TI APERTURE CARD

Also Available On  
NOTES: Aperture Card  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-122-01, REV. 5

Amend. 9, 8/84  
Amend. 22, 2/86



VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4C, LEVEL C

FIGURE 3.6.1-1 (SHEET 41 OF 222)

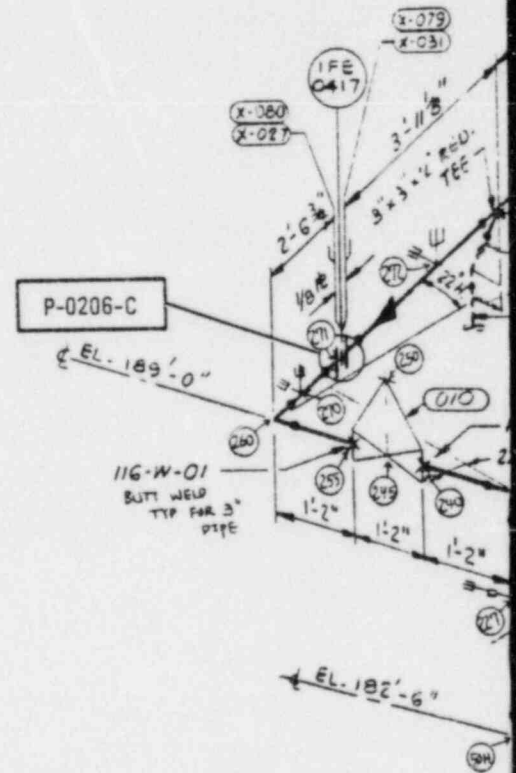
8608210201-2/

1201-116-3"  
FOR CONTINUATION  
SEE SHEET 44

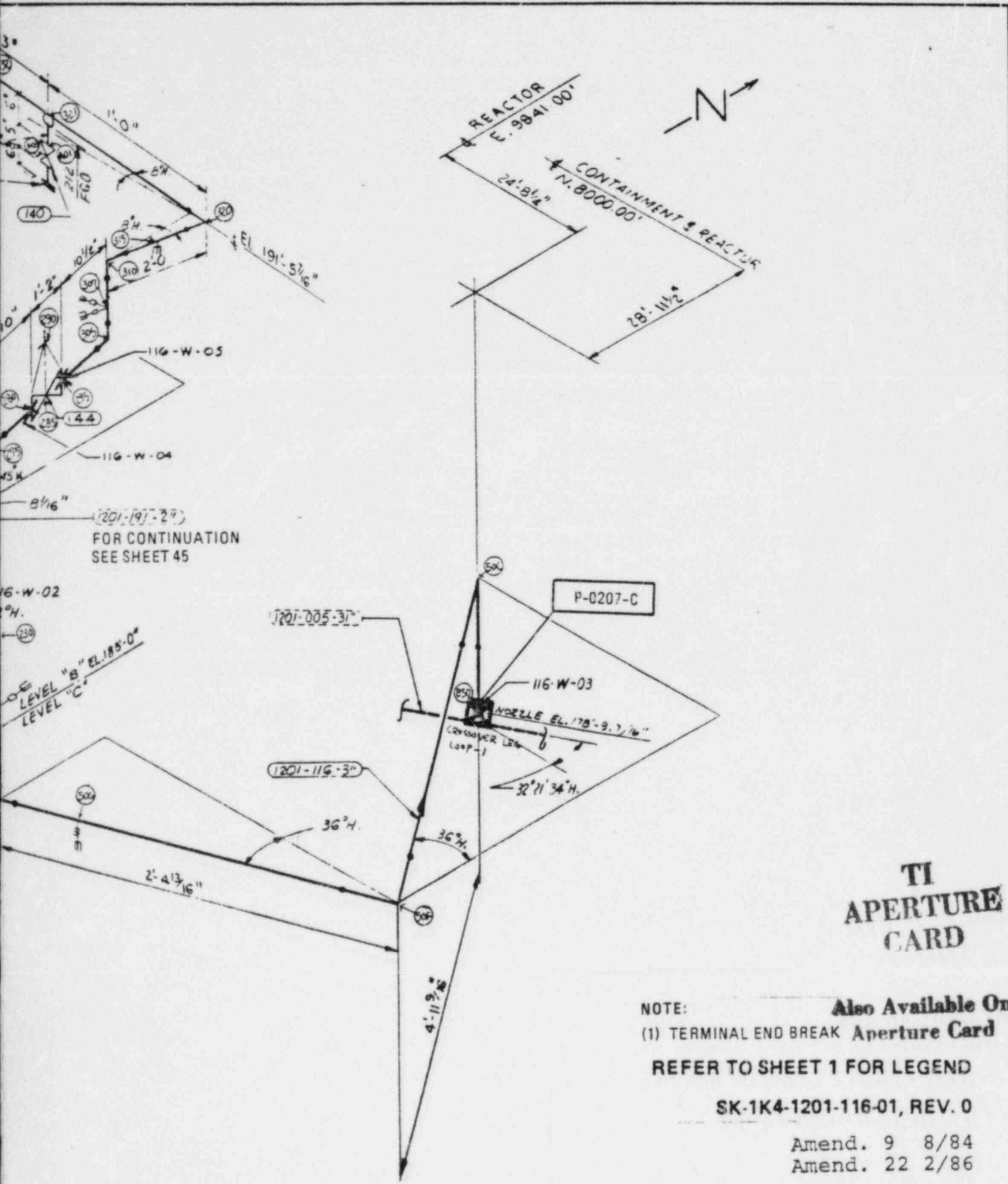
3"x2" ECC RED  
T.F.

1201-128-4"

3/4" BLIND FLANGE

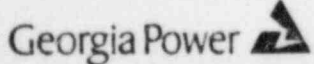


NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
271	8,840	33,100	32,800
850	(1)	(1)	32,800



**TI  
APERTURE  
CARD**

NOTE: **Also Available On**  
 (1) TERMINAL END BREAK Aperture Card  
**REFER TO SHEET 1 FOR LEGEND**  
 SK-1K4-1201-116-01, REV. 0  
 Amend. 9 8/84  
 Amend. 22 2/86

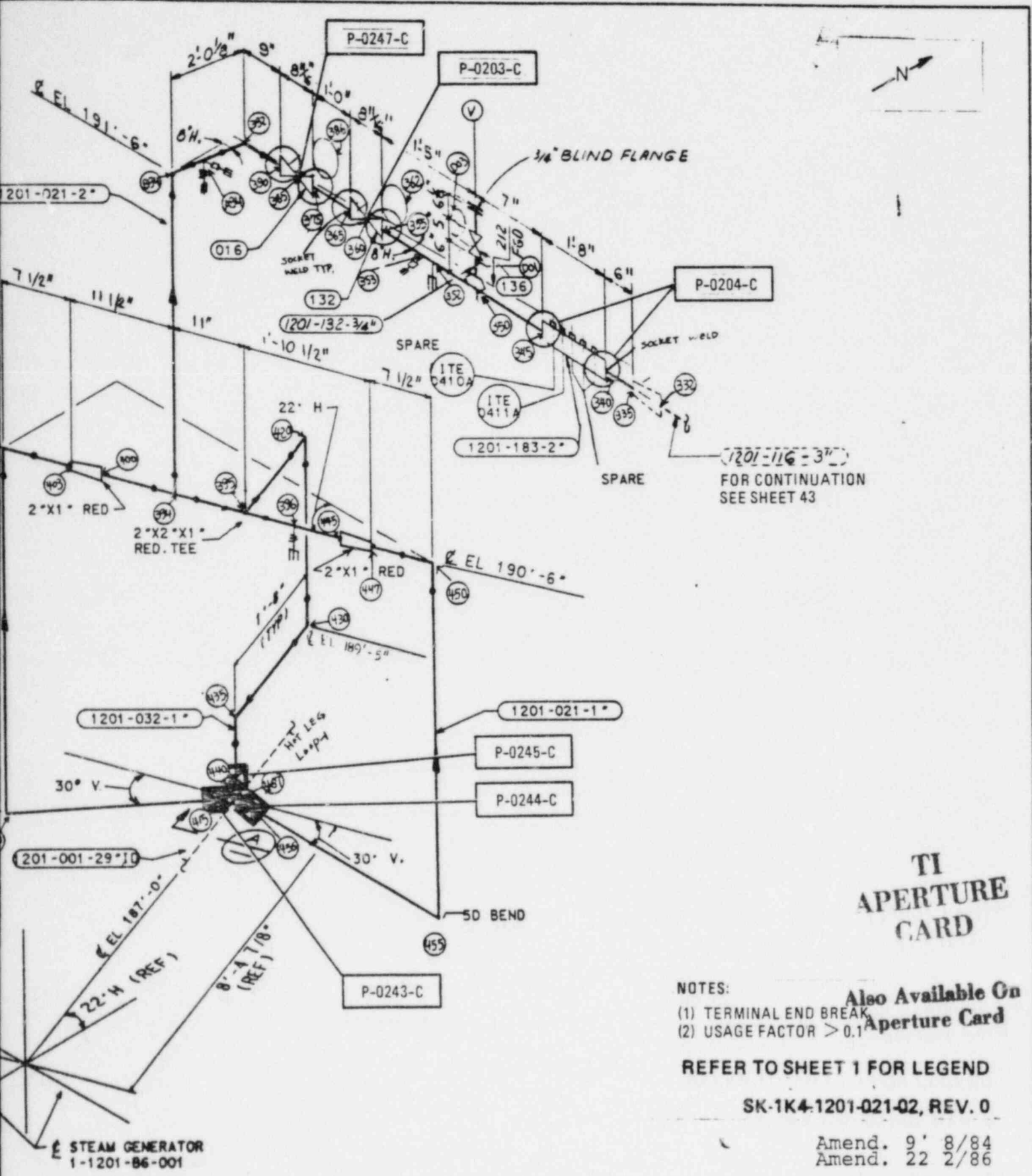

**VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2**

**RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4A, LEVELS B AND C**  
**FIGURE 3.6.1-1 (SHEET 43 OF 222)**

50 BEND

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
456	(1)	(1)	32,800
440	(1)	(1)	32,800
415	(1)	(1)	32,800
385	6,878	29,658 <sup>(2)</sup>	32,800
360	9,051	38,770	32,800
340,345	14,340	41,100	32,800





**TI  
APERTURE  
CARD**

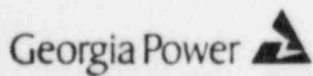
NOTES:  
 (1) TERMINAL END BREAK  
 (2) USAGE FACTOR > 0.1

**Also Available On  
Aperture Card**

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-021-02, REV. 0

Amend. 9' 8/84  
 Amend. 22' 2/86

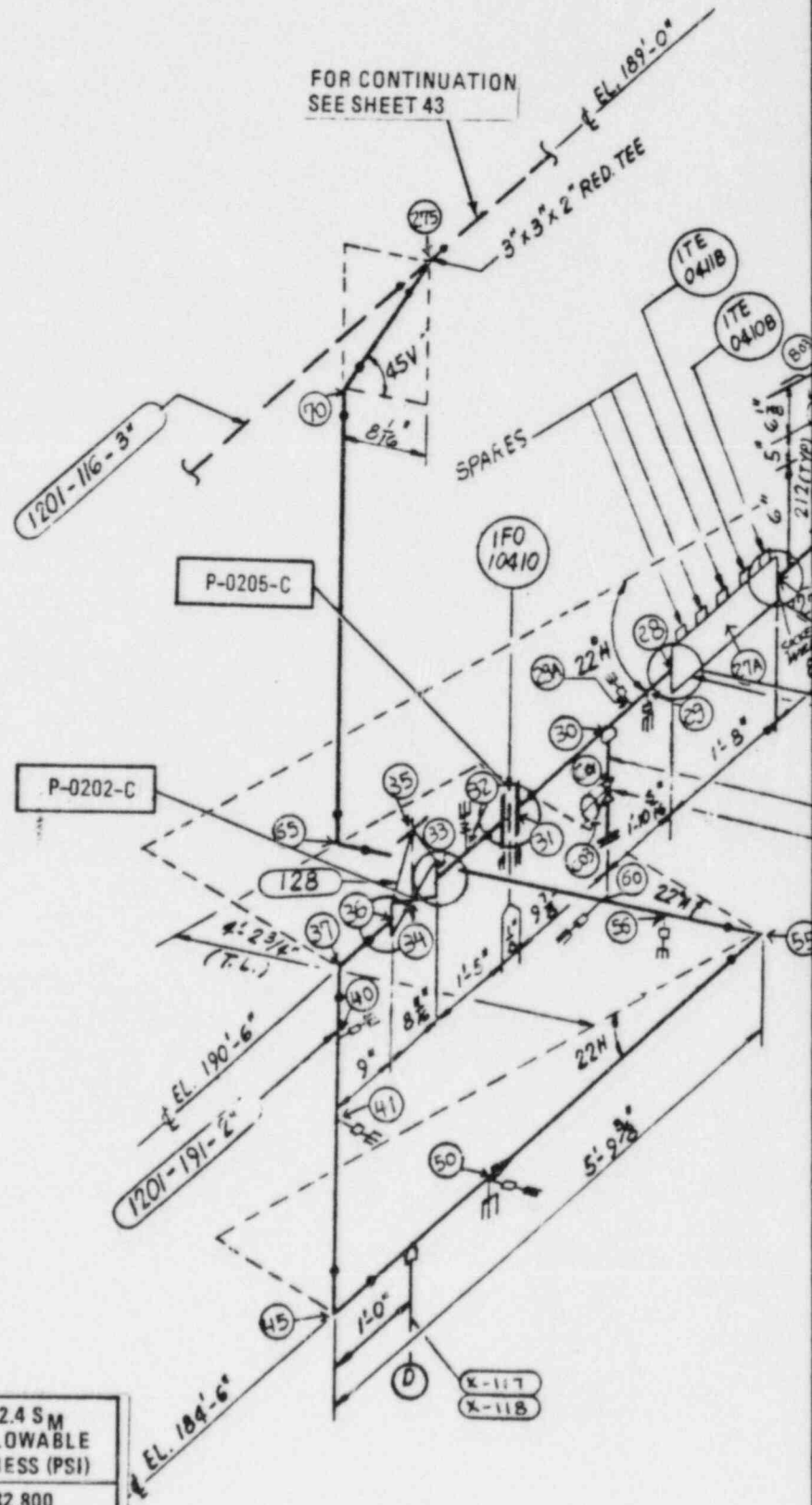


VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

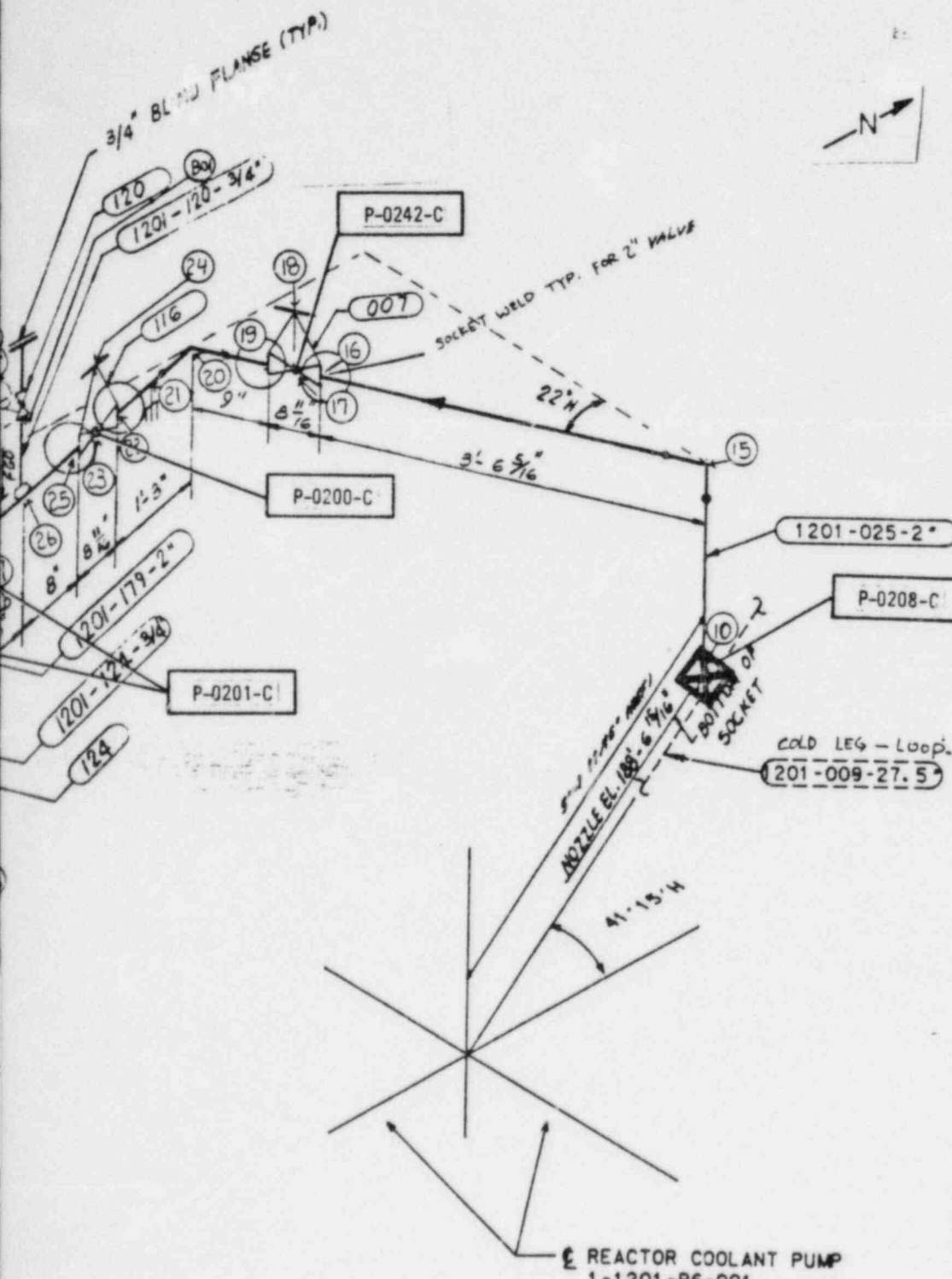
RCS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4A, LEVEL B

FIGURE 3.6.1-1 (SHEET 44 OF 222)

8608210201-23



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABLE STRESS (PSI)
34	3,963	41,100	32,800
31	3,895	41,100	32,800
27,28	3,581	41,100	32,800
23	3,963	41,100	32,800
17	5,429	26,073(2)	32,800
10	(1)	(1)	32,800



# TI APERTURE CARD

Also Available On  
Aperture Card

**NOTES:**

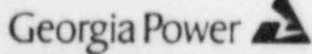
- (1) TERMINAL END BREAK
- (2) USAGE FACTOR > 0.1

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-025-01, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

REACTOR COOLANT PUMP  
1-1201-P6-001

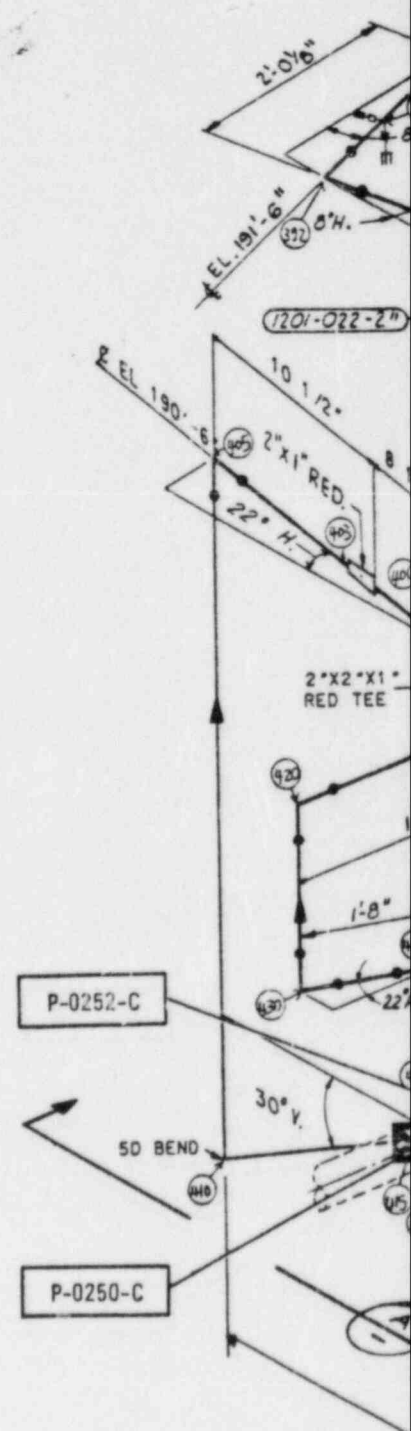


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

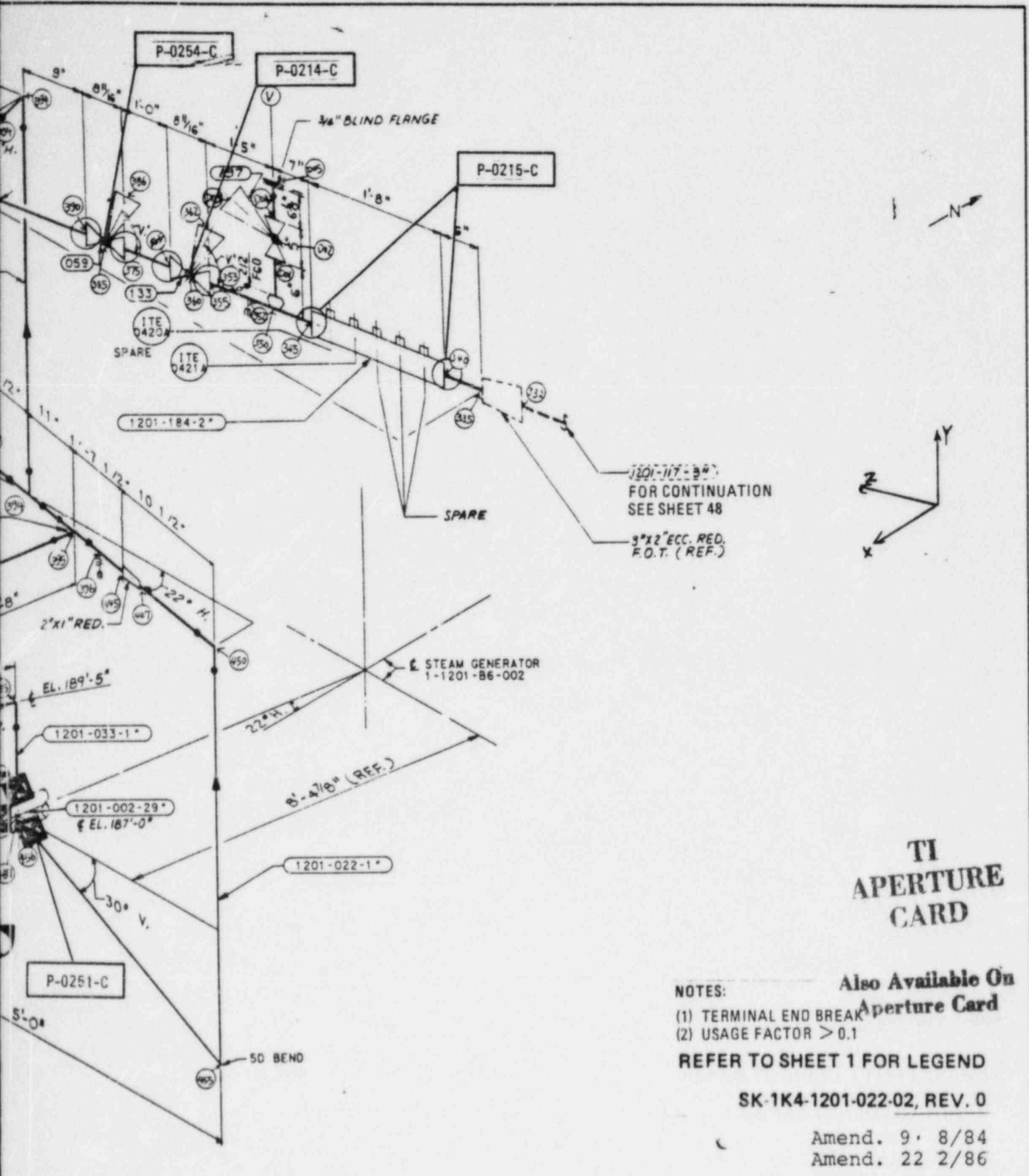
RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4A, LEVEL B

FIGURE 3.6.1-1 (SHEET 45 OF 222)

8608210201-24



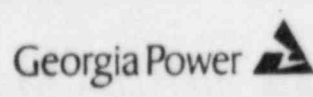
NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
456	(1)	(1)	32,800
440	(1)	(1)	32,800
415	(1)	(1)	32,800
385	6,279	29,658(2)	32,800
360	6,867	40,000	32,800
340,345	10,687	41,100	32,800



# TI APERTURE CARD

NOTES: **Also Available On Aperture Card**  
 (1) TERMINAL END BREAK  
 (2) USAGE FACTOR > 0.1  
**REFER TO SHEET 1 FOR LEGEND**

**SK-1K4-1201-022-02, REV. 0**  
 Amend. 9. 8/84  
 Amend. 22 2/86



VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4B, LEVEL B  
 FIGURE 3.6.1-1 (SHEET 46 OF 222)

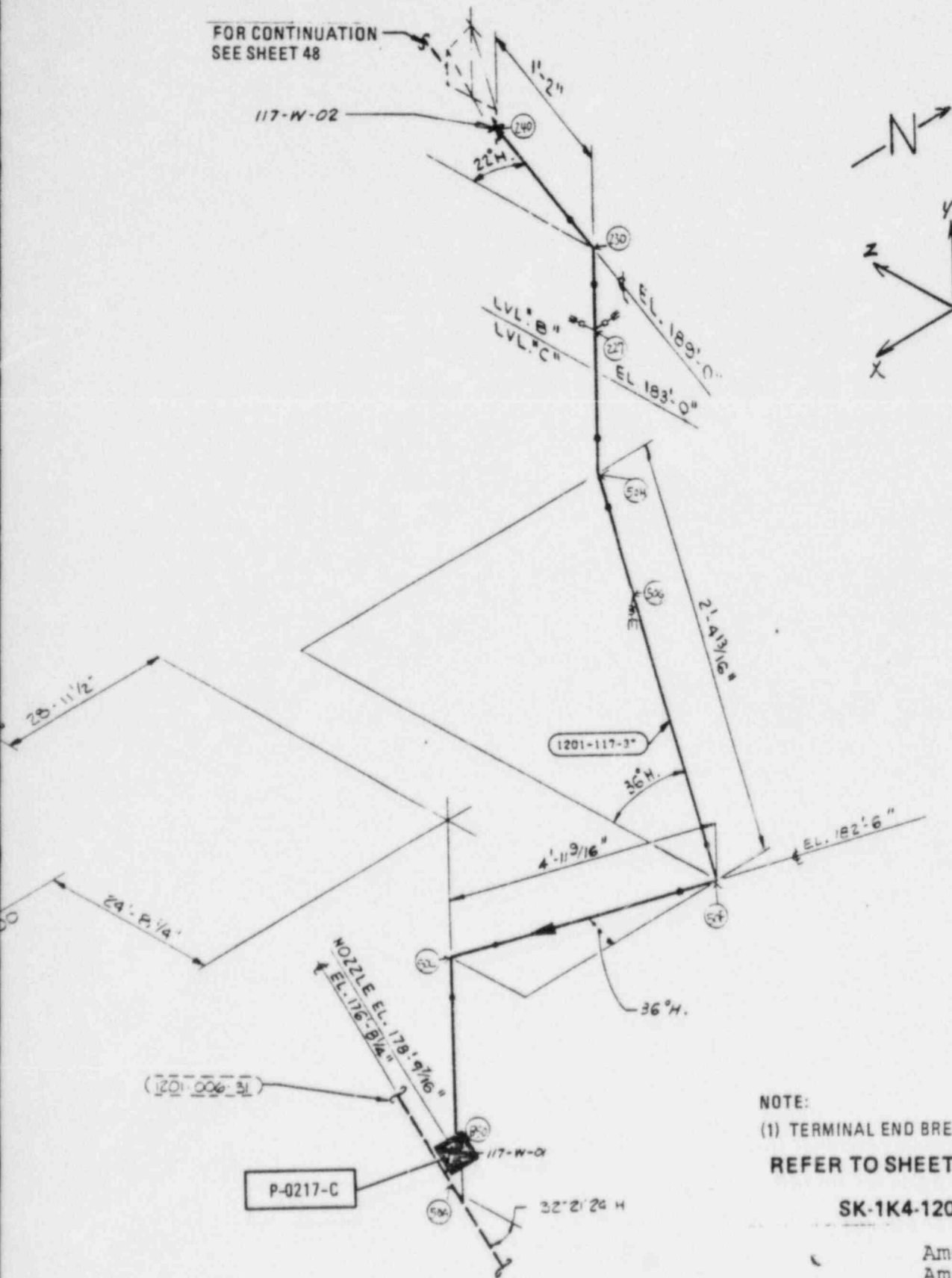
8608210201-25

CONTAINMENT & REACTOR  
N 8000 00

REACTOR  
E 9841

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
B50	(1)	(1)	32,800

FOR CONTINUATION  
SEE SHEET 48



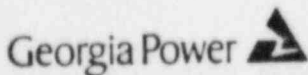
### TI APERTURE CARD

NOTE:  
(1) TERMINAL END BREAK  
REFER TO SHEET 1 FOR LEGEND

Also Available On  
Aperture Card

SK-1K4-1201-117-01, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

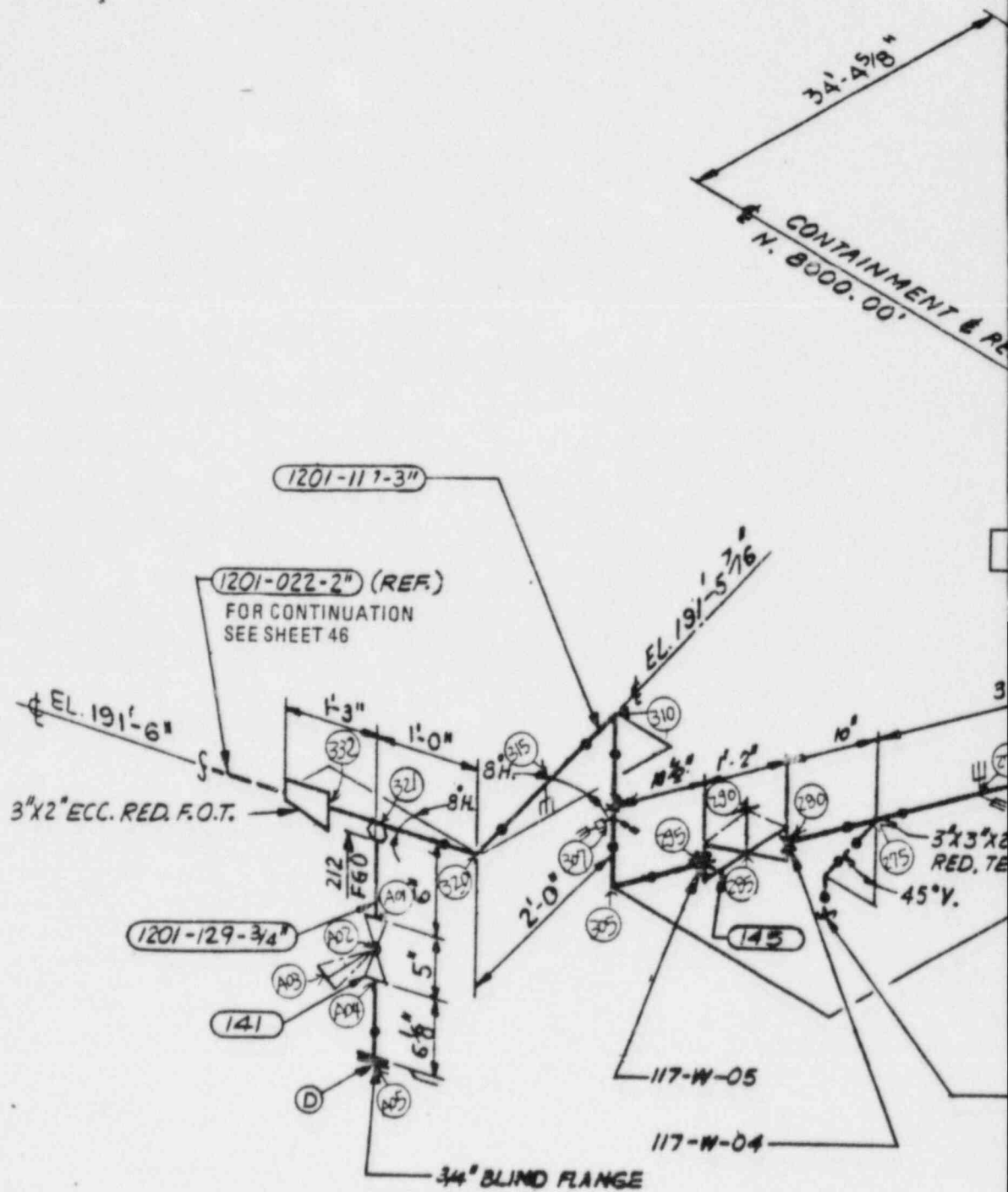


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4B, LEVELS B AND C

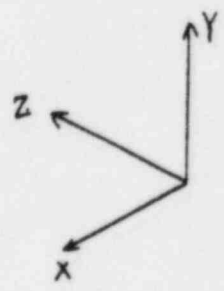
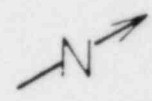
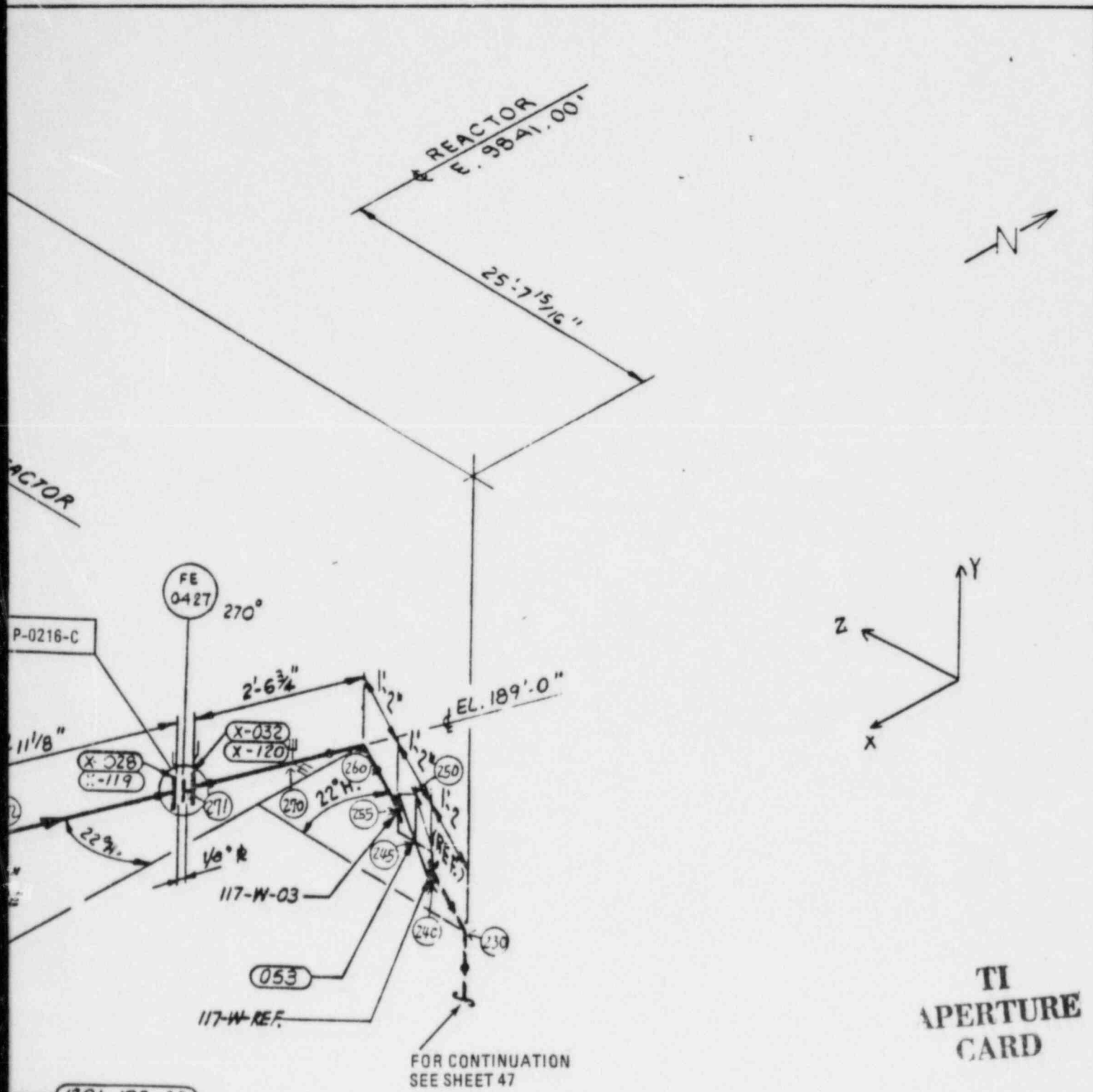
FIGURE 3.6.1-1 (SHEET 47 OF 222)

8608210201-26



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABL. STRESS (PSI)
271	7,123	33,100	32,800





**TI  
APERTURE  
CARD**


**Also Available On  
Aperture Card**

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-117-02, REV. 0  
Amend. 9 8/84  
Amend. 22 2/86

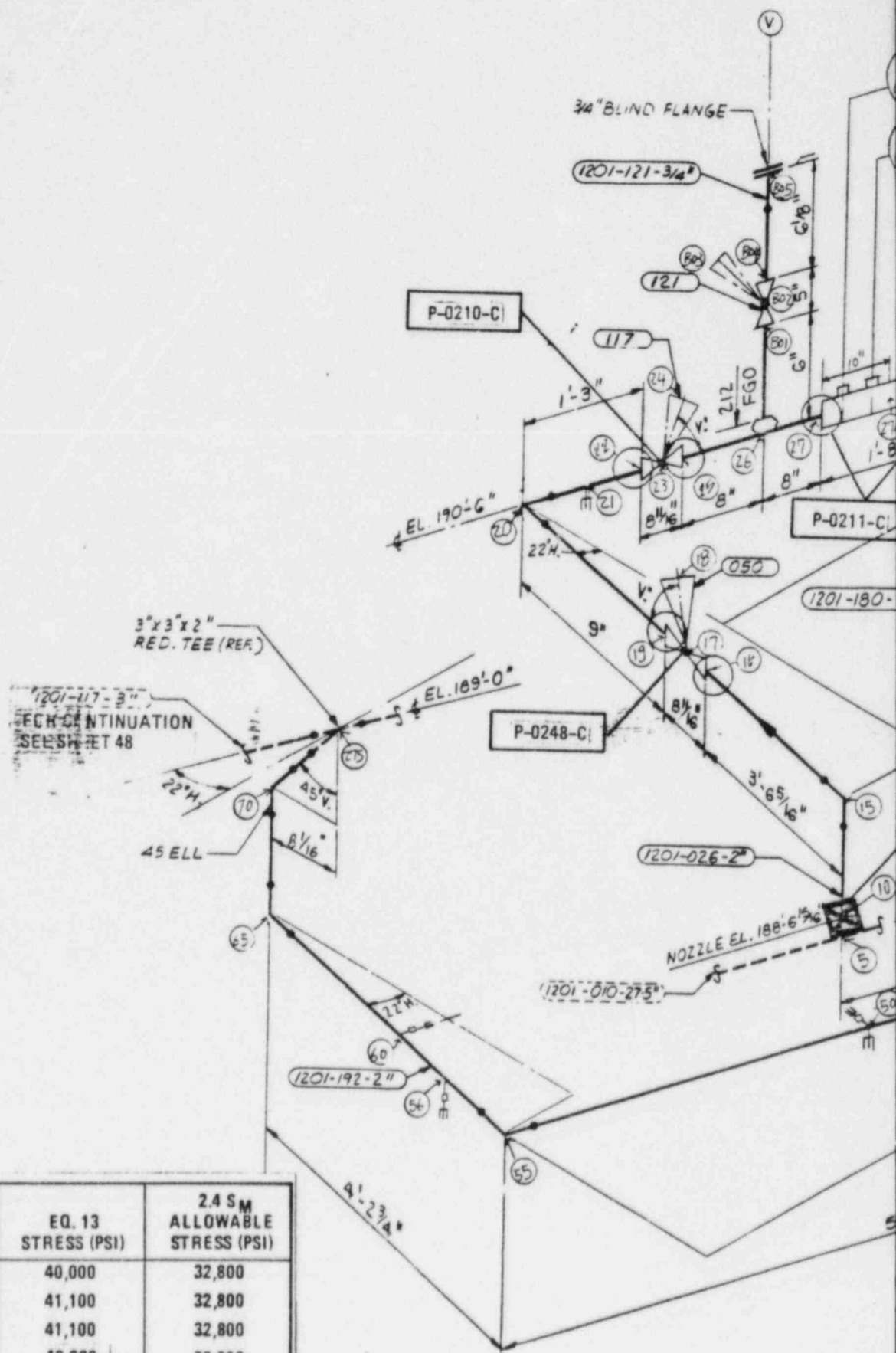
1201-192-2"  
FOR CONTINUATION  
SEE SHEET 49

FOR CONTINUATION  
SEE SHEET 47

Georgia Power  VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

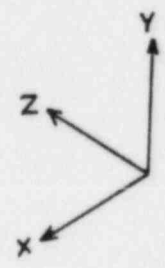
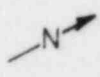
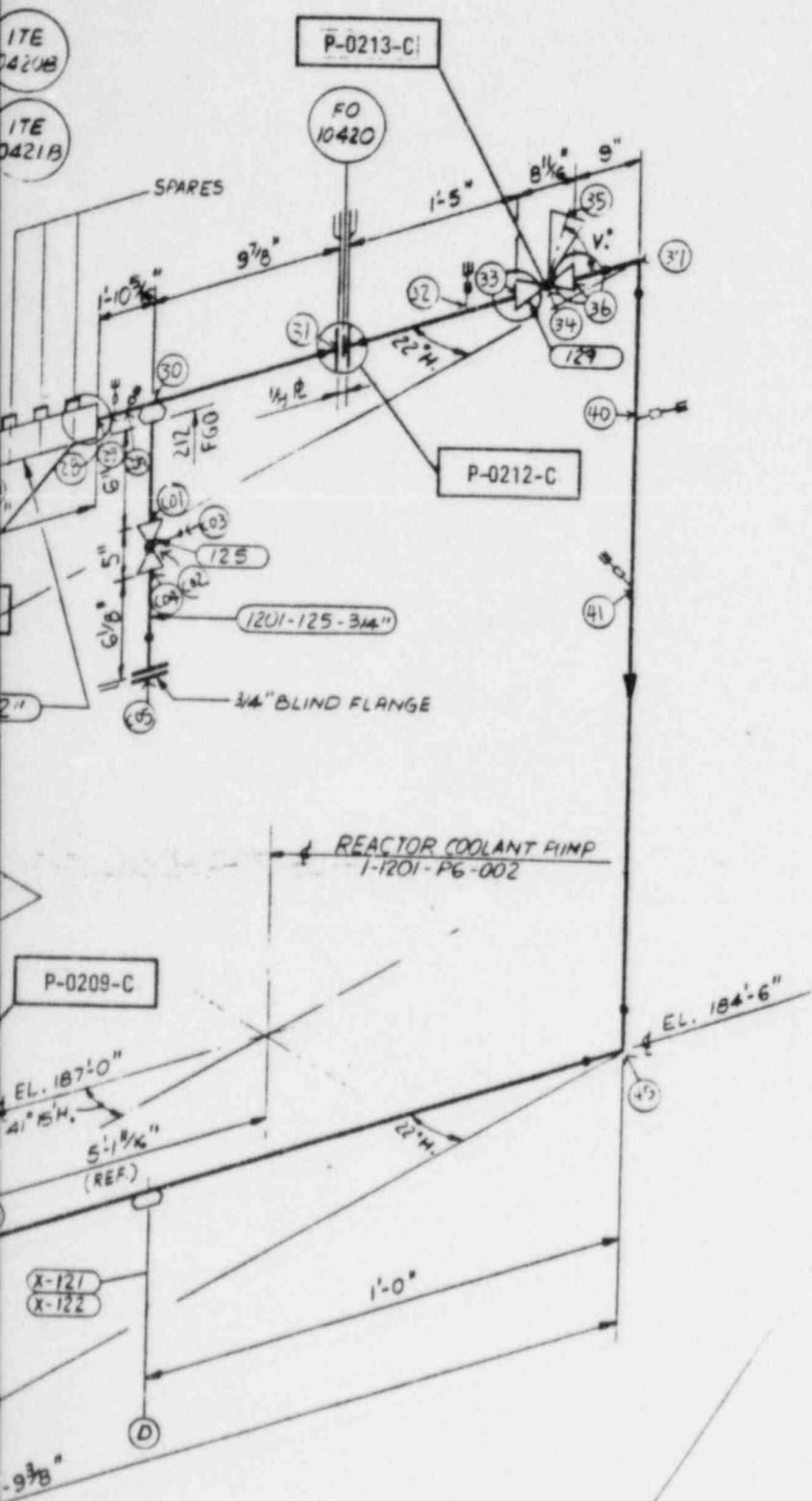
RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4B, LEVEL B  
FIGURE 3.6.1-1 (SHEET 48 OF 222)

8608210201-27



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
34	3,098	40,000	32,800
31	2,494	41,100	32,800
27,28	2,774	41,100	32,800
23	4,400	40,000	32,800
17	3,163	24,842(2)	32,800
10	(1)	(1)	32,800

ITE  
0420B  
ITE  
0421B



# TI APERTURE CARD

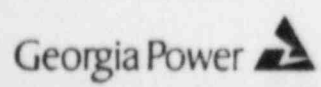
Also Available On  
Aperture Card

- NOTES:  
 (1) TERMINAL END BREAK  
 (2) USAGE FACTOR > 0.1

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-192-01, REV. 0

Amend. 9 8/84  
 Amend. 22 2/86



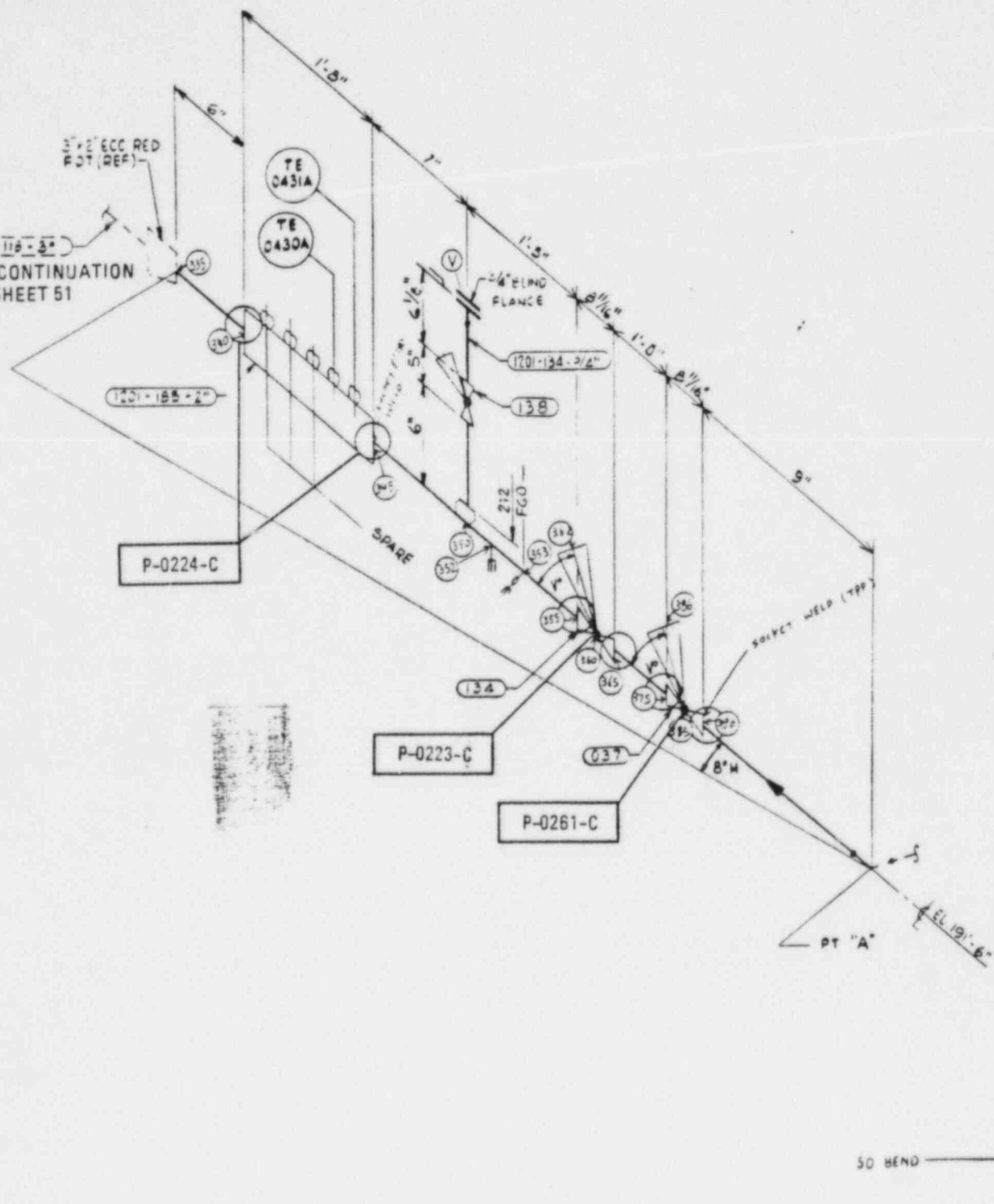
VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4B, LEVEL B

FIGURE 3.6.1-1 (SHEET 49 OF 222)

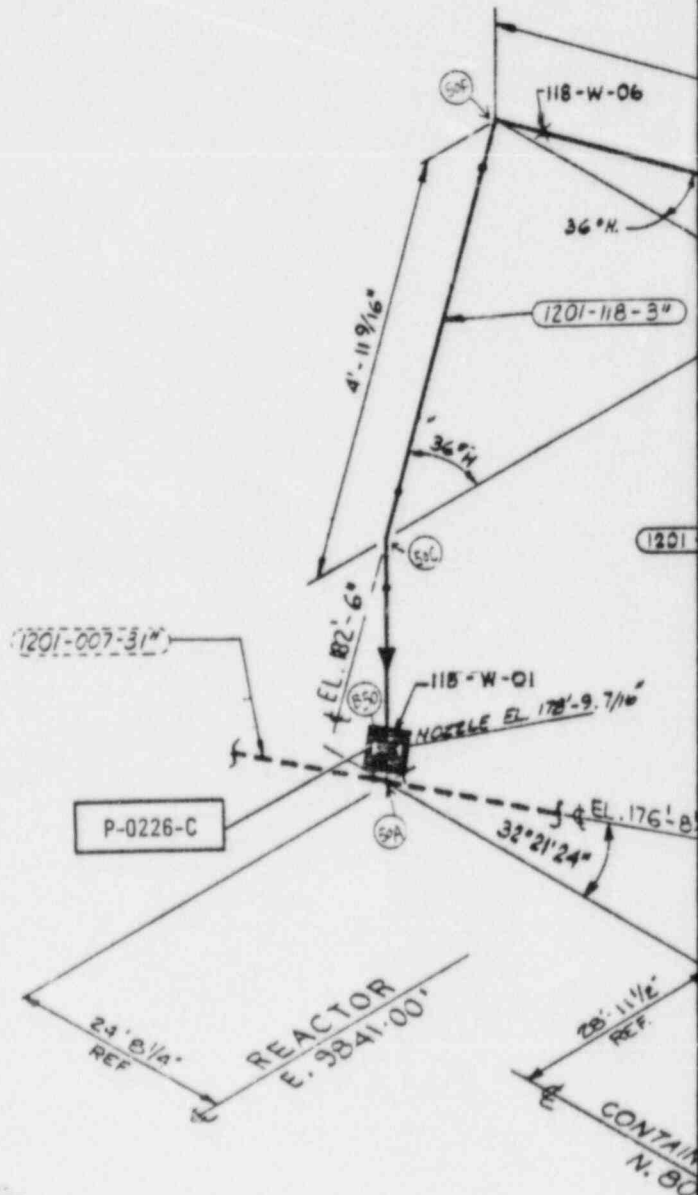
8608210201-28

3" x 2" ECC RED  
 POT (REF)  
 (1201-118-3")  
 FOR CONTINUATION  
 SEE SHEET 51

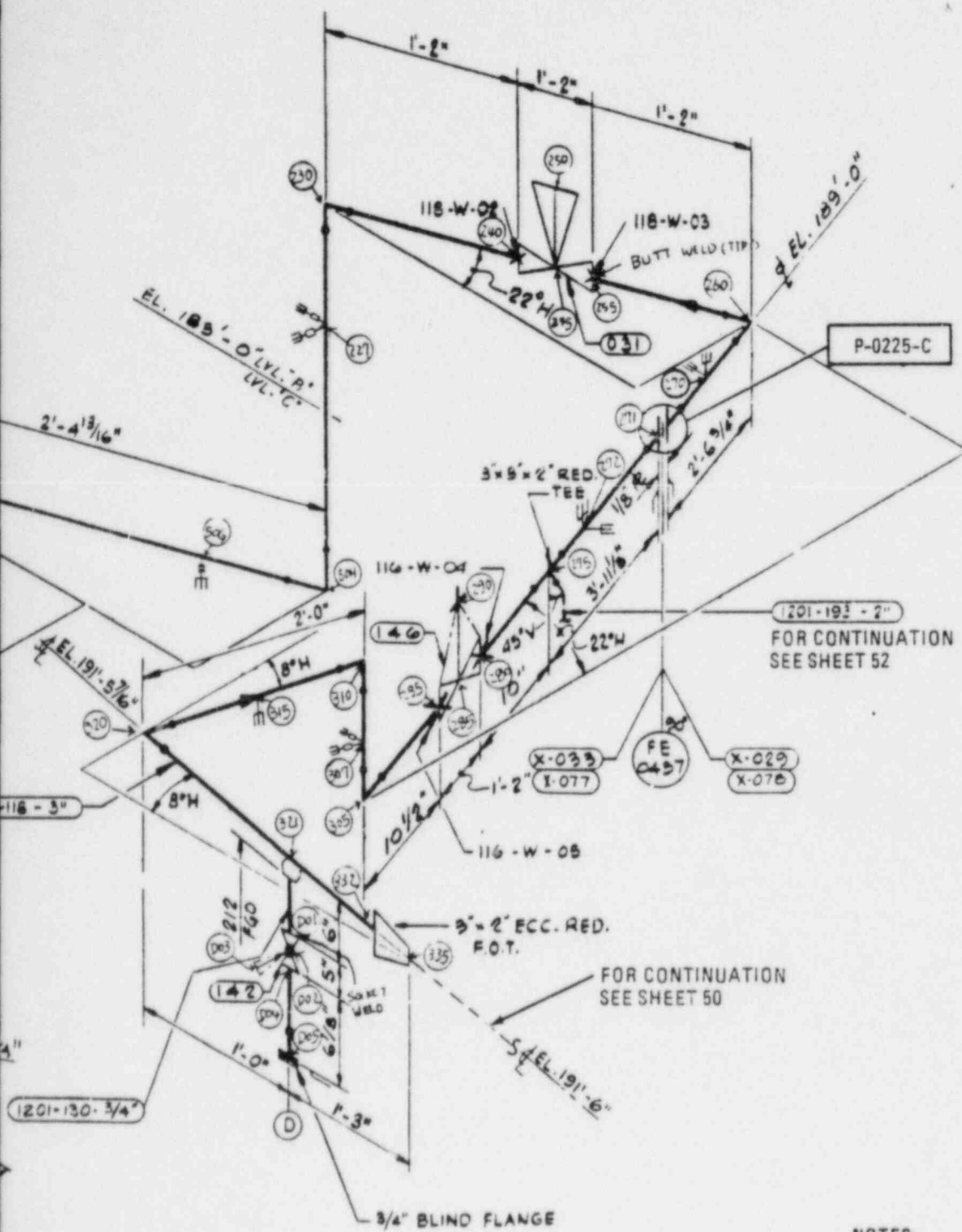


NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
415	(1)	(1)	32,800
440	(1)	(1)	32,800
456	(1)	(1)	32,800
385	6,603	29,658(2)	32,800
360	8,040	40,000	32,800
340,345	14,955	41,100	32,800





NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
271	8,916	33,100	32,800
B50	(1)	(1)	32,800



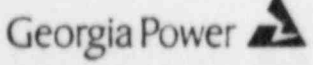
**TI  
APERTURE  
CARD**

**Also Available On  
Aperture Card**

NOTES:  
(1) TERMINAL END BREAK  
**REFER TO SHEET 1 FOR LEGEND**

**SK-1K4-1201-118-01, REV. 0**

Amend. 9 8/84  
Amend. 22 2/86

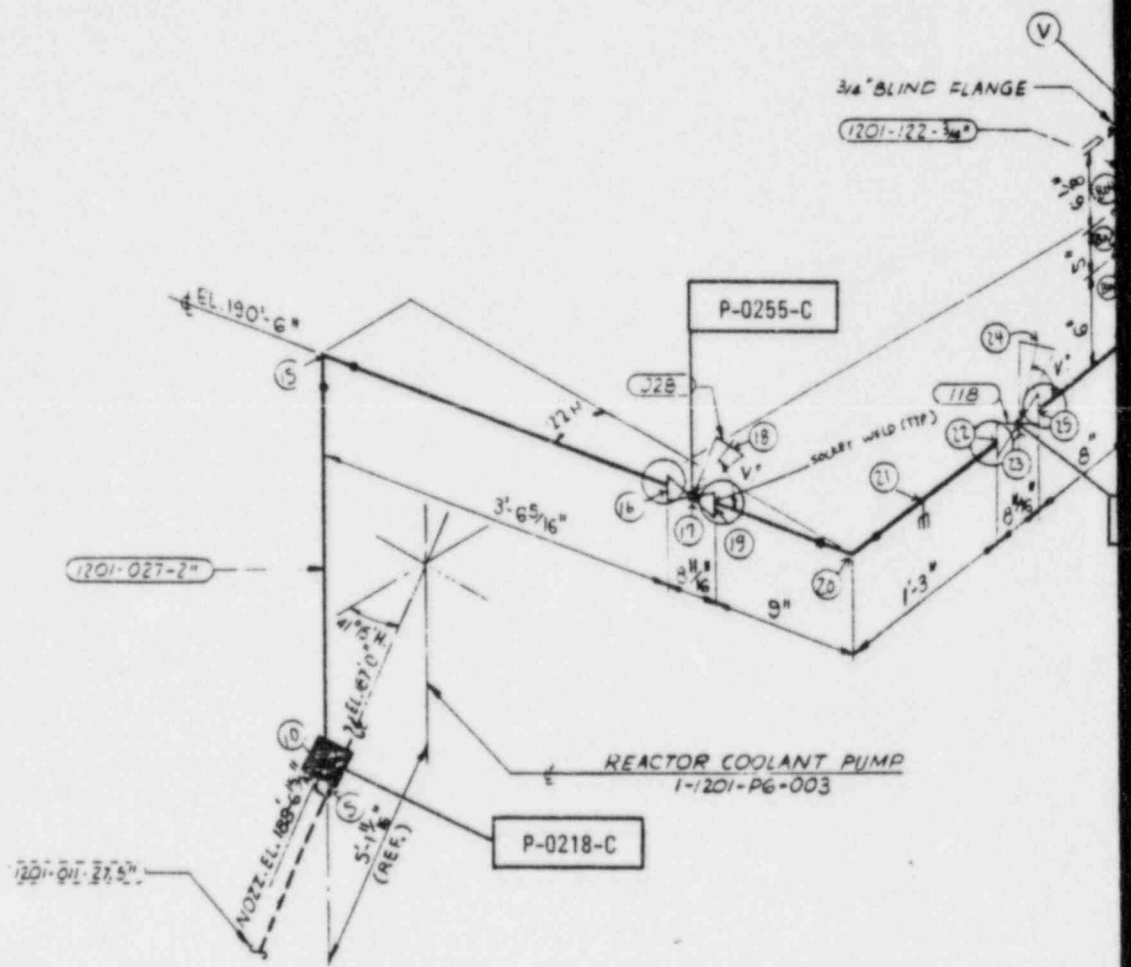


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4C, LEVELS B AND C

FIGURE 3.6.1-1 (SHEET 51 C 222)

**8608210201-30**



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
34	4,991	41,100	32,800
31	4,778	41,100	32,800
27,28	4,646	41,100	32,800
23	4,991	41,100	32,800
17	3,824	24,814(2)	32,800
10	(1)	(1)	32,800



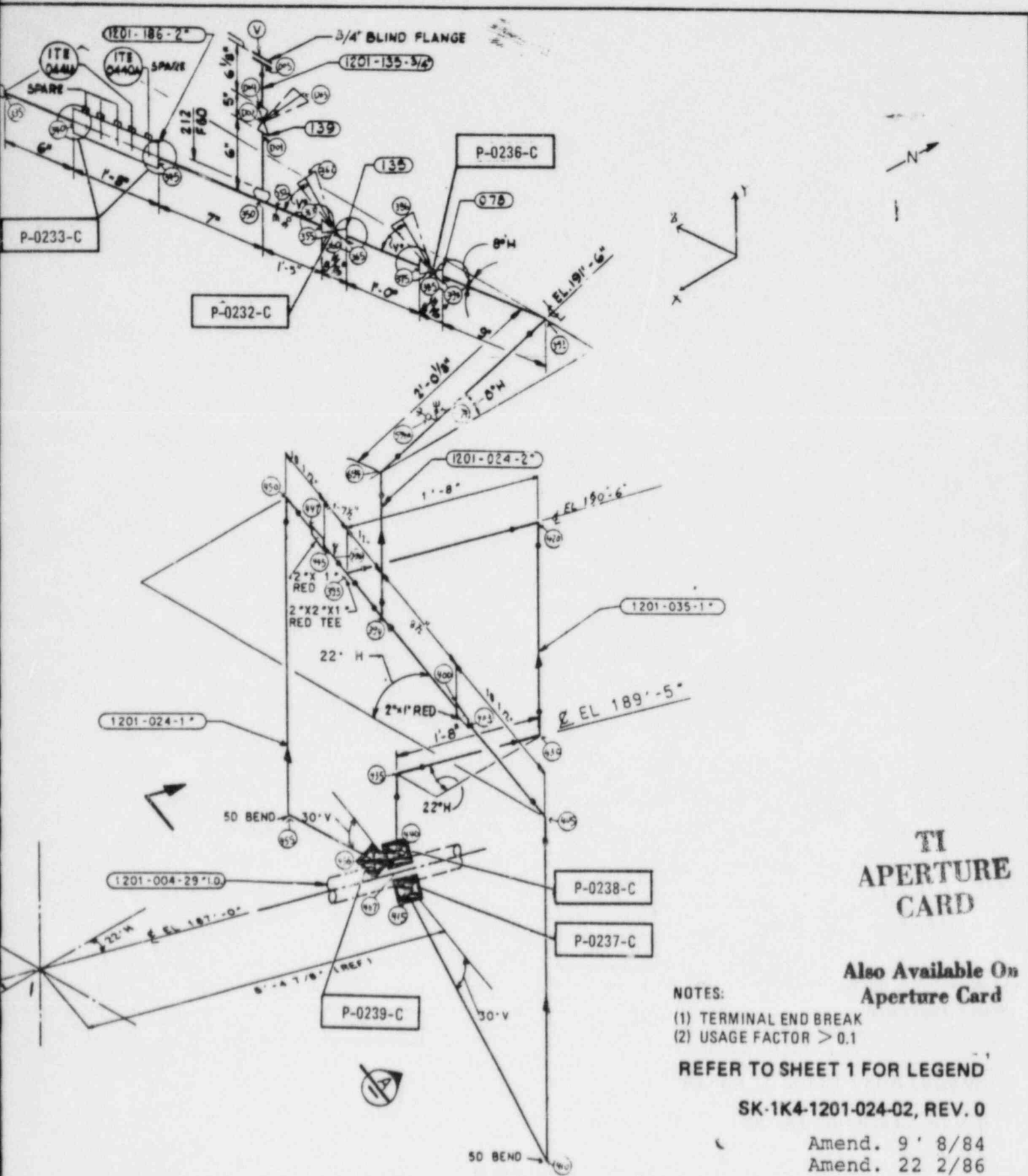


(120) - 118 - 55  
FOR CONTINUATION  
SEE SHEET 55

3" x 2" ECC RED.  
F.O.T. (REF)

STEAM GENERATOR  
1-1201-B6-004

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
415	(1)	(1)	32,800
440	(1)	(1)	32,800
456	(1)	(1)	32,800
385	6,651	29,658 <sup>(2)</sup>	32,800
360	8,699	40,000	32,800
340,345	25,621	41,100	32,800



**TI  
APERTURE  
CARD**

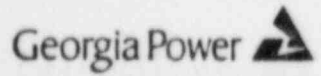
**Also Available On  
Aperture Card**

- NOTES:**  
 (1) TERMINAL END BREAK  
 (2) USAGE FACTOR > 0.1

**REFER TO SHEET 1 FOR LEGEND**

**SK-1K4-1201-024-02, REV. 0**

Amend. 9' 8/84  
 Amend. 22 2/86



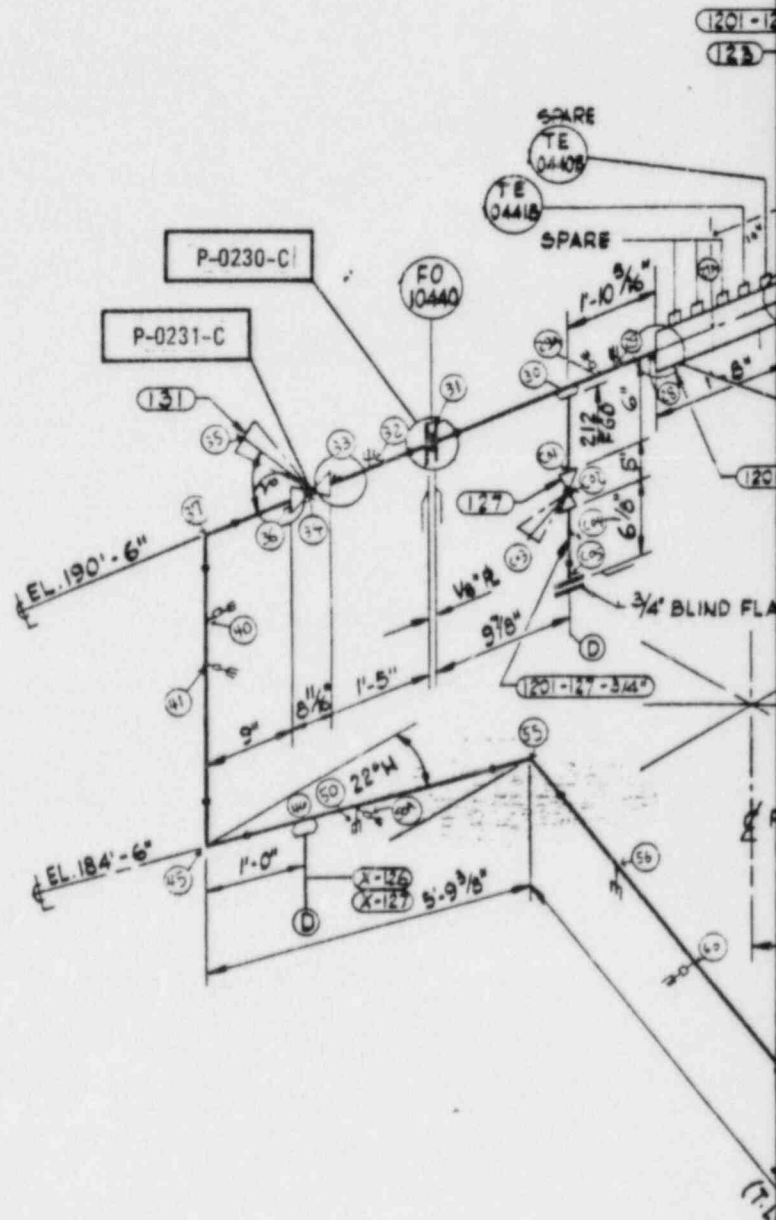
VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
 CONTAINMENT BUILDING  
 AREA 4D, LEVEL B

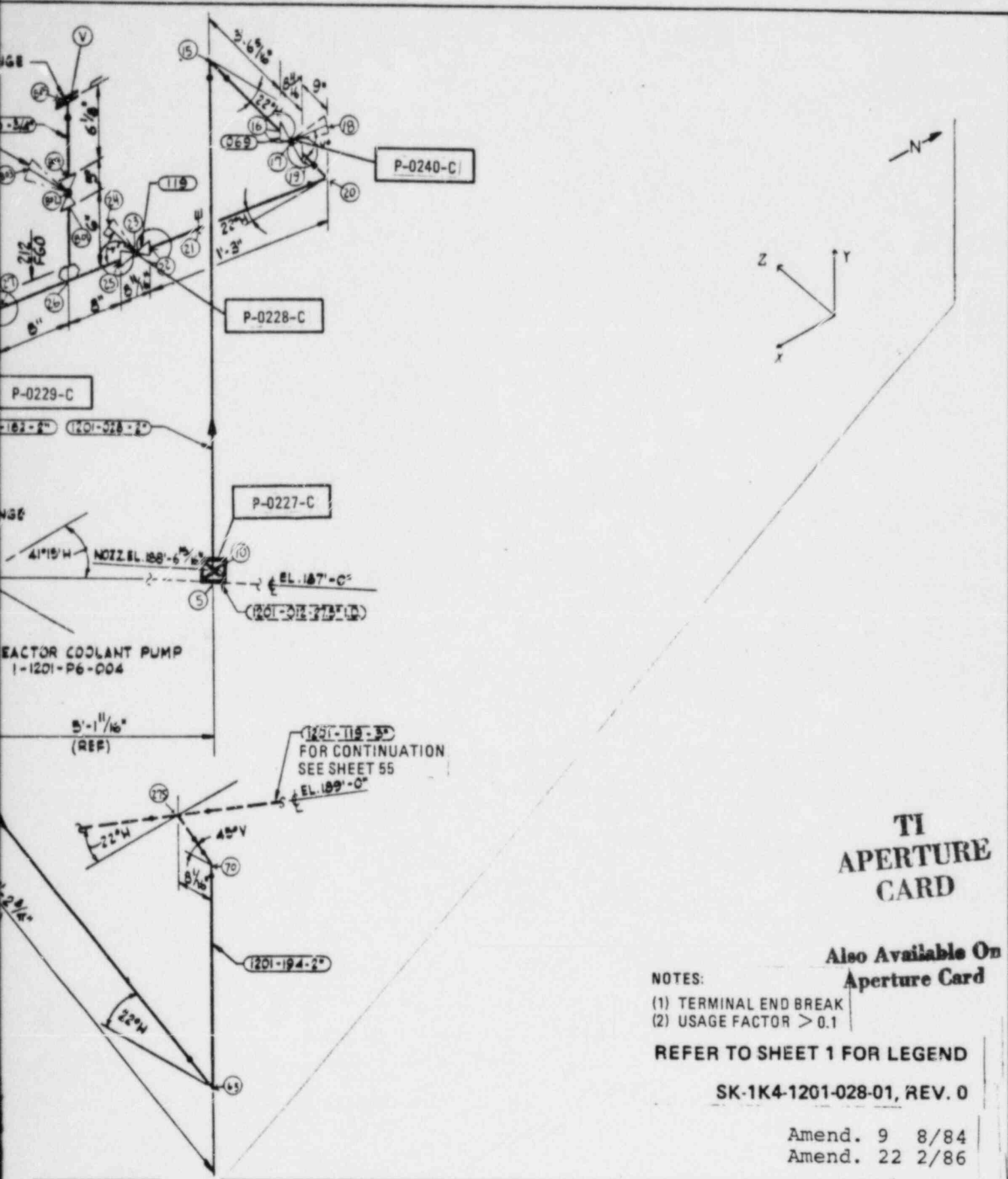
FIGURE 3.6.1-1 (SHEET 53 OF 222)

8608210201-32

3/4" BLIND FL



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
34	14,833	40,000	32,800
31	19,251	41,100	32,800
27,28	6,104	41,100	32,800
23	14,833	40,000	32,800
17	2,856	24,620(2)	32,800
10	(1)	(1)	32,800



# TI APERTURE CARD

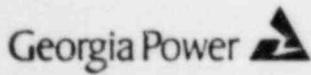
Also Available On Aperture Card

- NOTES:
- (1) TERMINAL END BREAK
  - (2) USAGE FACTOR > 0.1

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-028-01, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

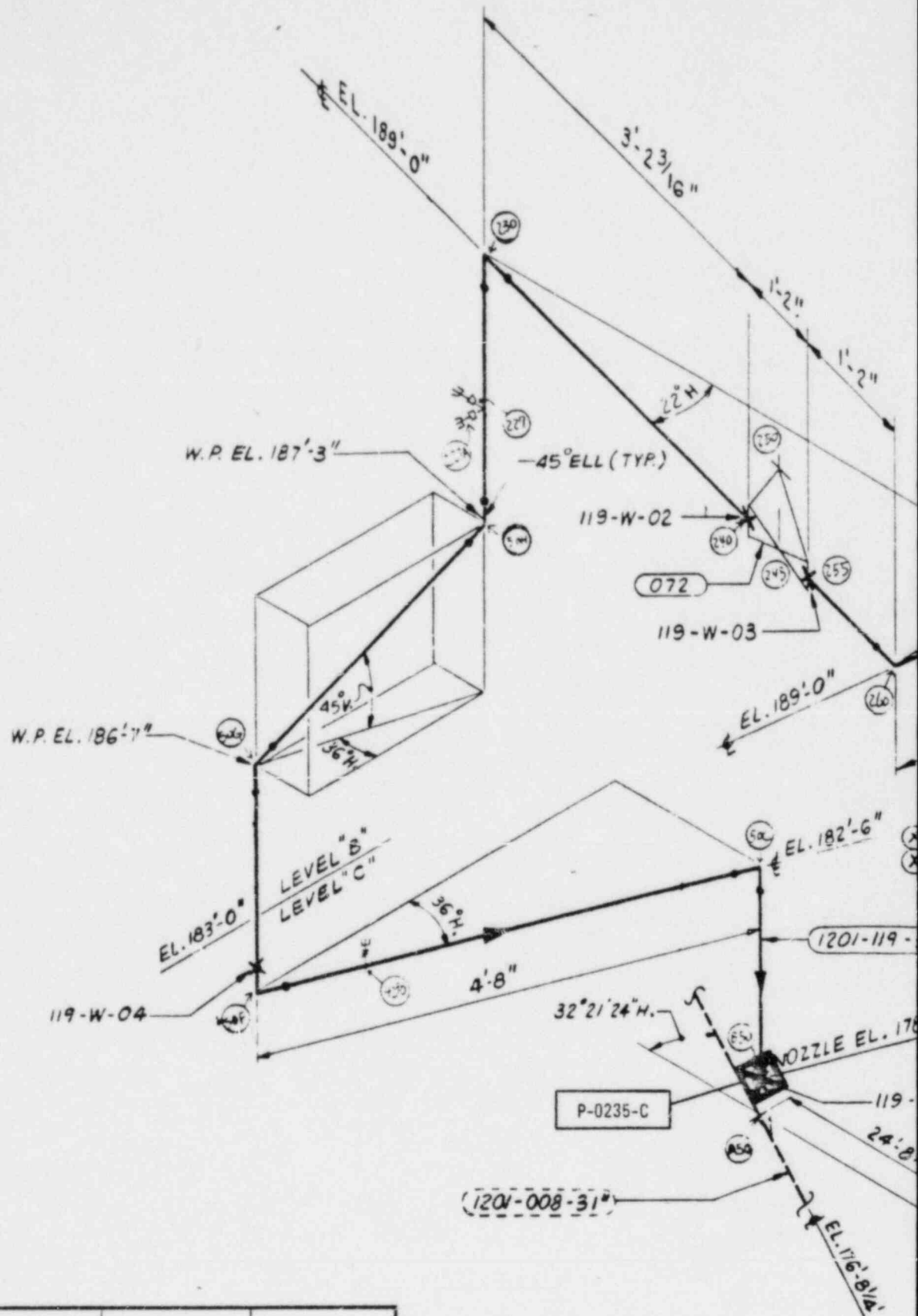


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

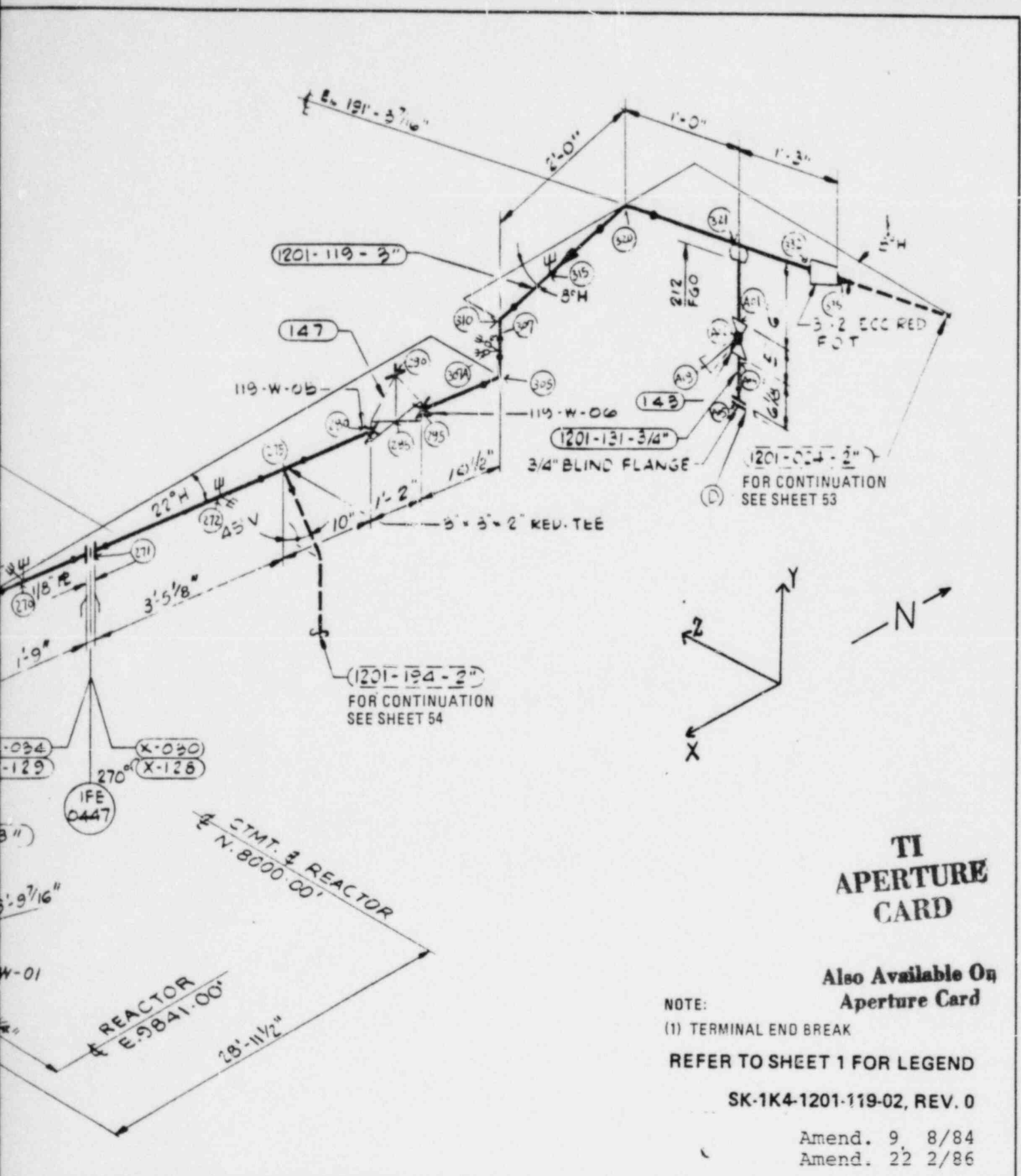
RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4D, LEVEL B

FIGURE 3.6.1-1 (SHEET 54 OF 222)

8608210201-33



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
B50	(1)	(1)	32,800



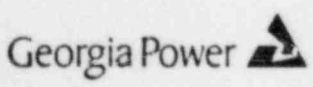
**TI  
APERTURE  
CARD**

**Also Available On  
Aperture Card**

NOTE:  
(1) TERMINAL END BREAK  
REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-119-02, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

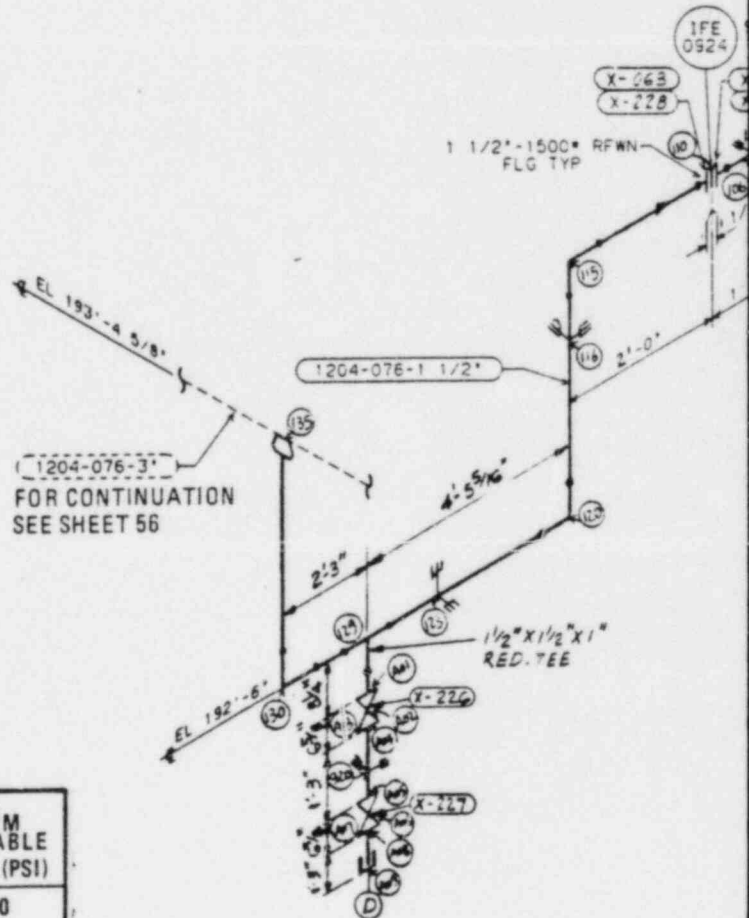
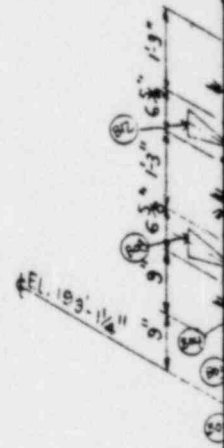


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

RCS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4D, LEVELS B AND C

FIGURE 3.6.1-1 (SHEET 55 OF 222)

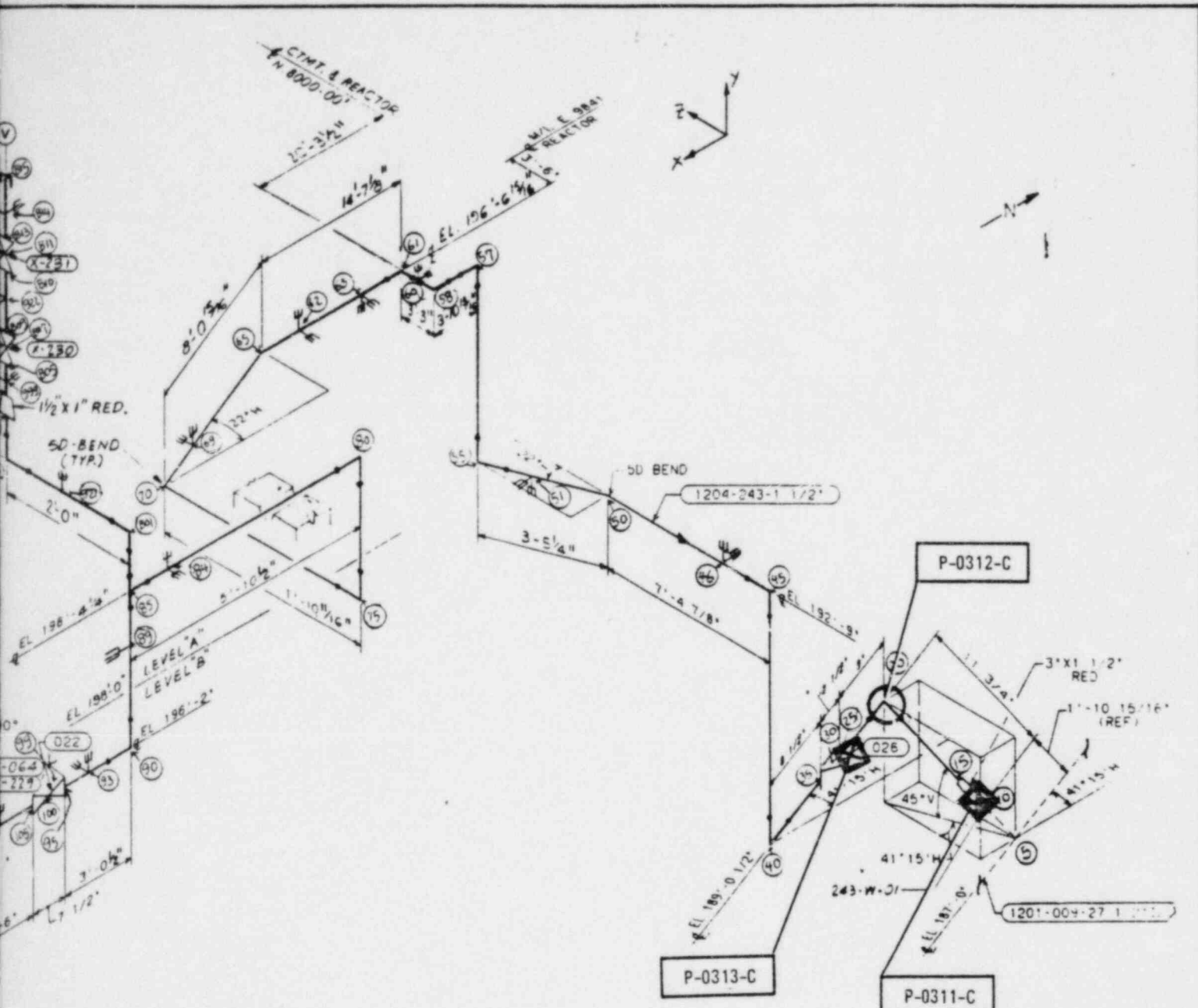
8008210201-34



FOR CONTINUATION  
SEE SHEET 56

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
10	(1)	(1)	32,800
20	10,346	38,780	32,800
30	(1)	(1)	32,800






**TI  
APERTURE  
CARD**

NOTES: **Also Available On**  
 (1) TERMINAL END BREAK **Aperture Card**  
**REFER TO SHEET 1 FOR LEGEND**

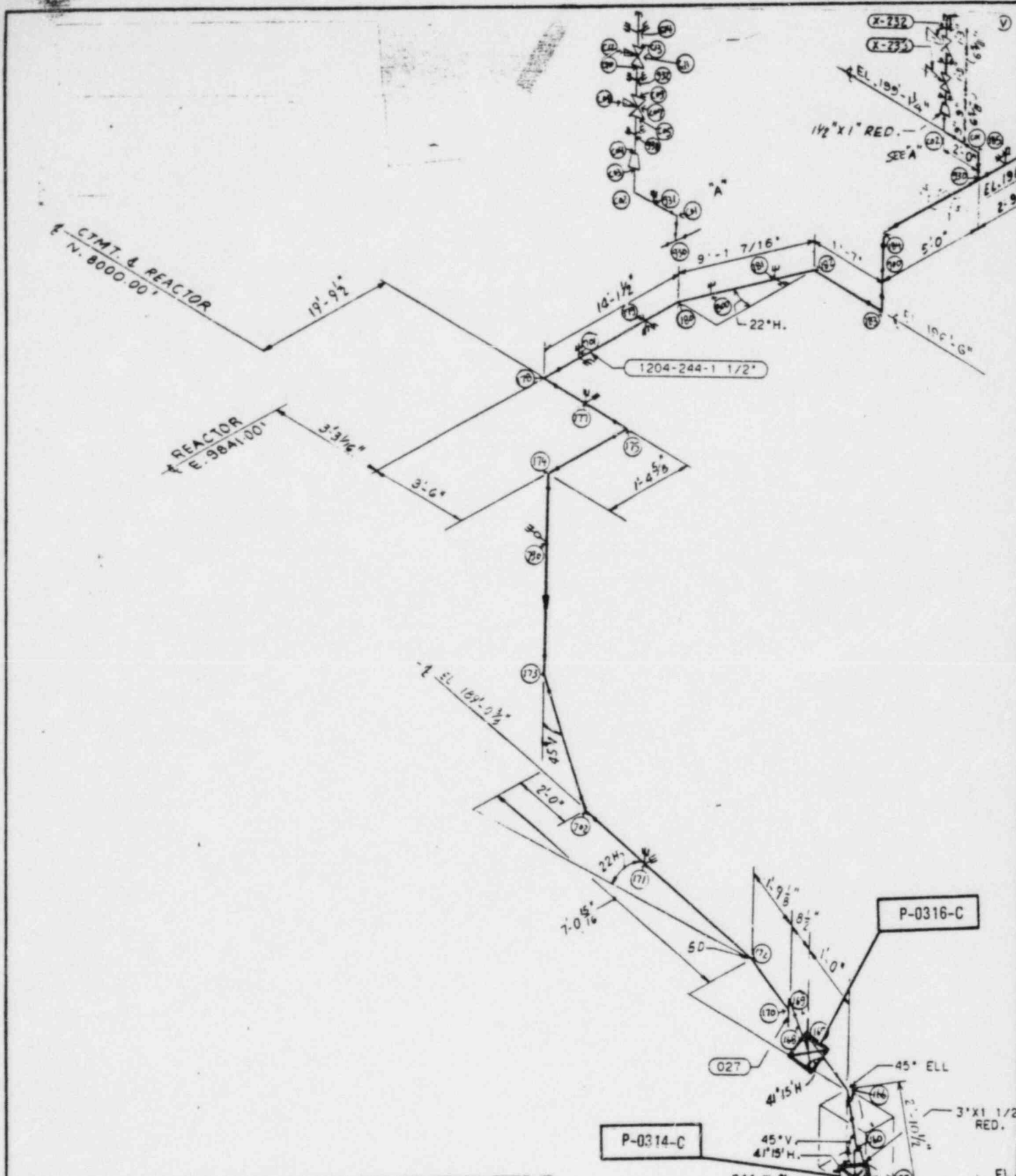
**SK-1K4-1204-076-02, REV. 0**  
 Amend. 9. 8/84  
 Amend. 22 2/86

Georgia Power  **VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2**

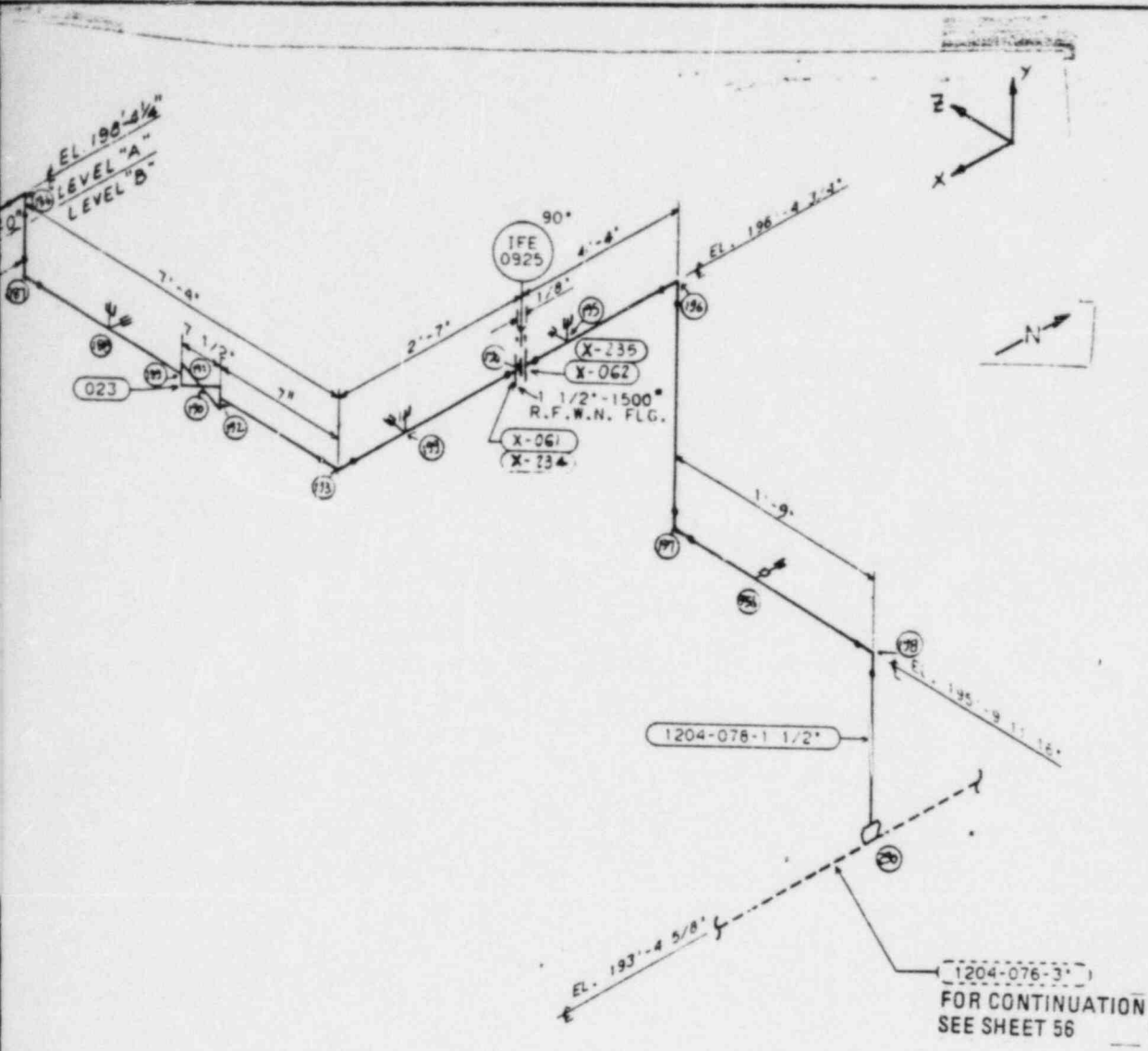
**SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4A, LEVELS A AND B**

**FIGURE 3.6.1-1 (SHEET 57 OF 222)**

**8608210201-35**



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABLE STRESS (PSI)
150	(1)	(1)	32,800
167	(1)	(1)	32,800



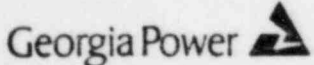
# TI APERTURE CARD

Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK  
REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-078-02, REV. 0

Amend. 9, 8/84  
Amend. 22 2/86

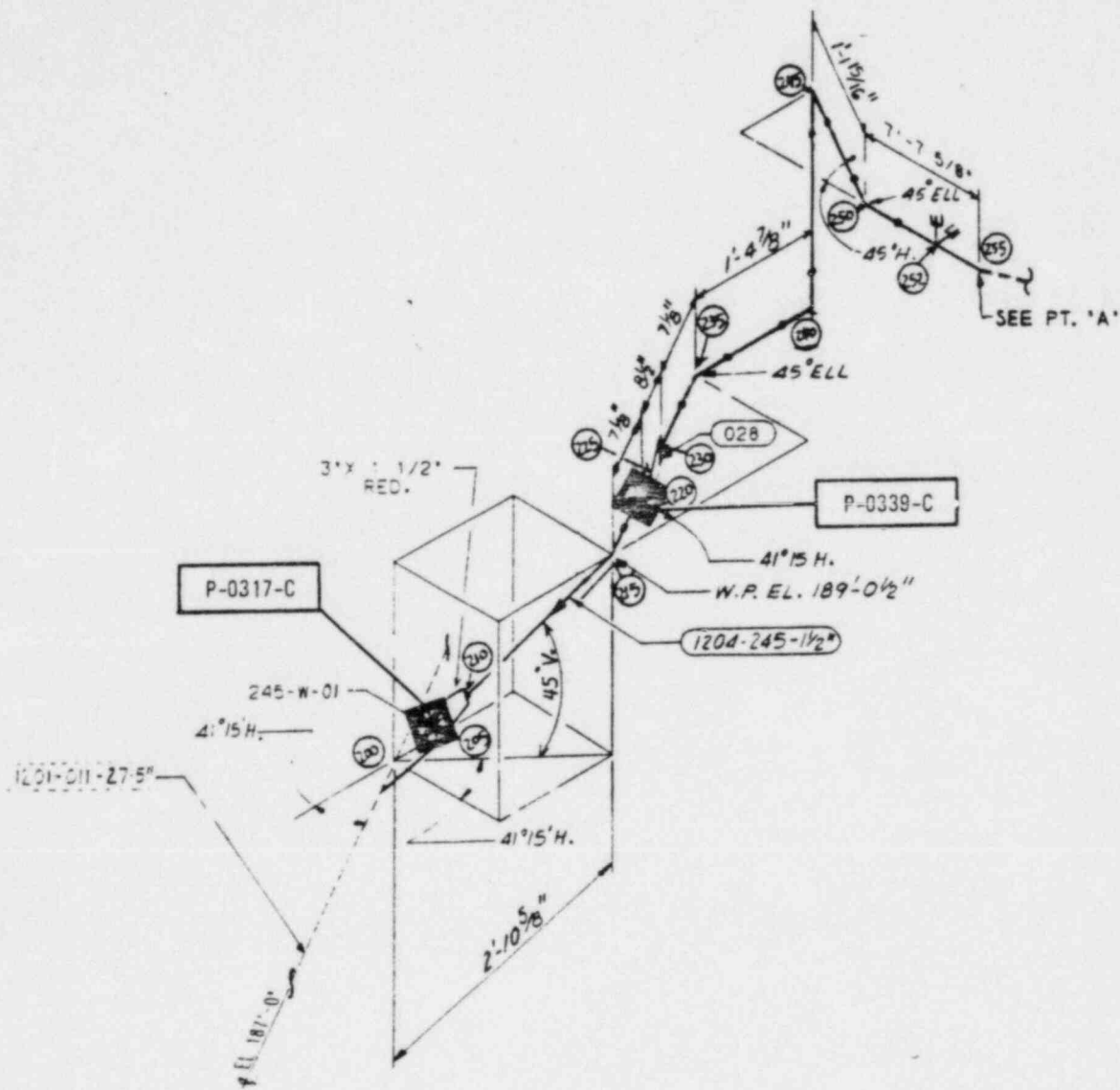


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4B, LEVELS A AND B

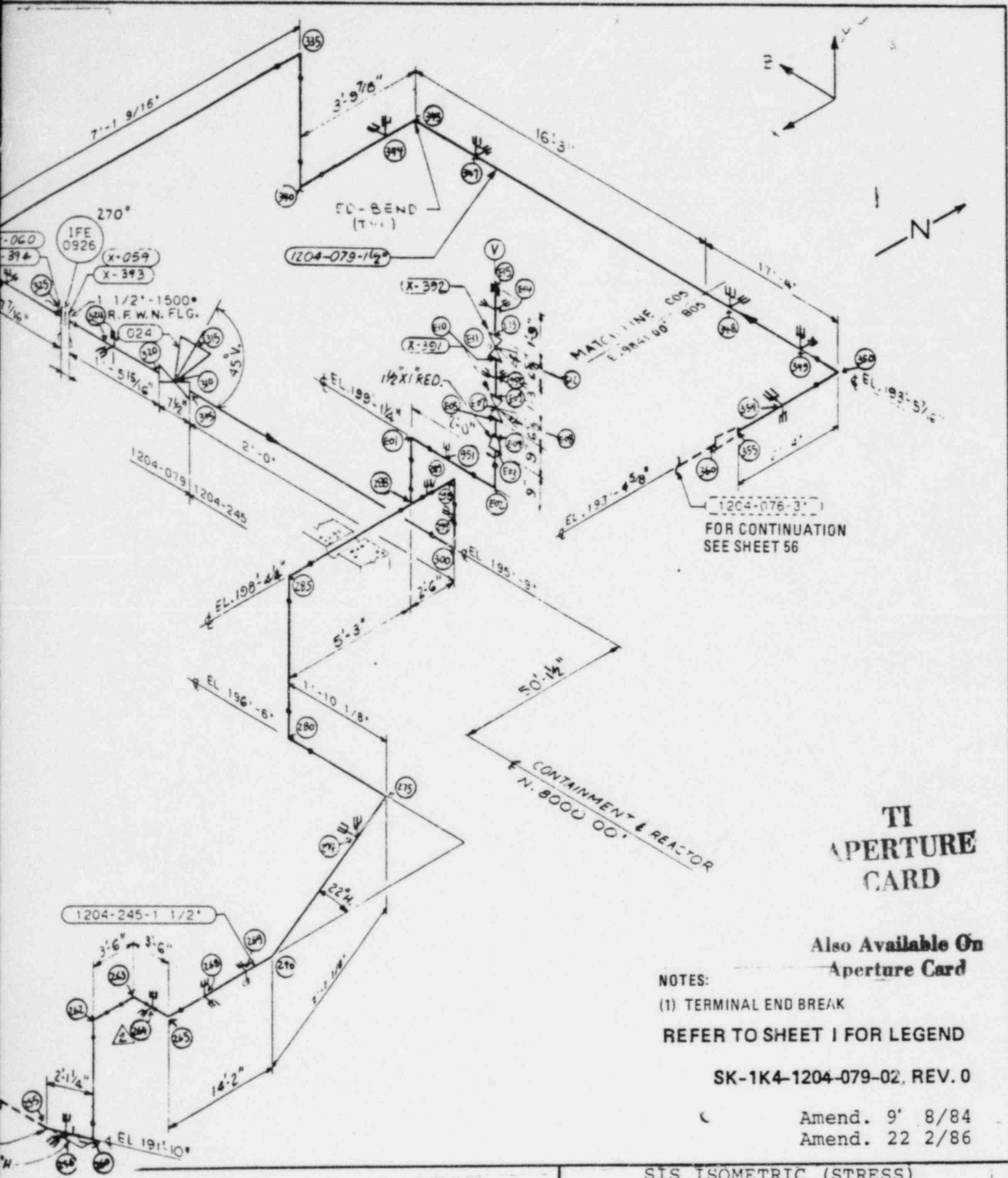
FIGURE 3.6.1-1 (SHEET 58 OF 222)

8608210201-36



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABLE STRESS (PSI)
205	(1)	(1)	32,800
220	(1)	(1)	32,800

PT. A"



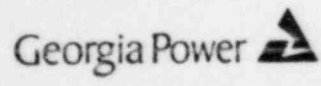
**TI  
APERTURE  
CARD**

Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK  
REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-079-02, REV. 0

Amend. 9' 8/84  
Amend. 22 2/86

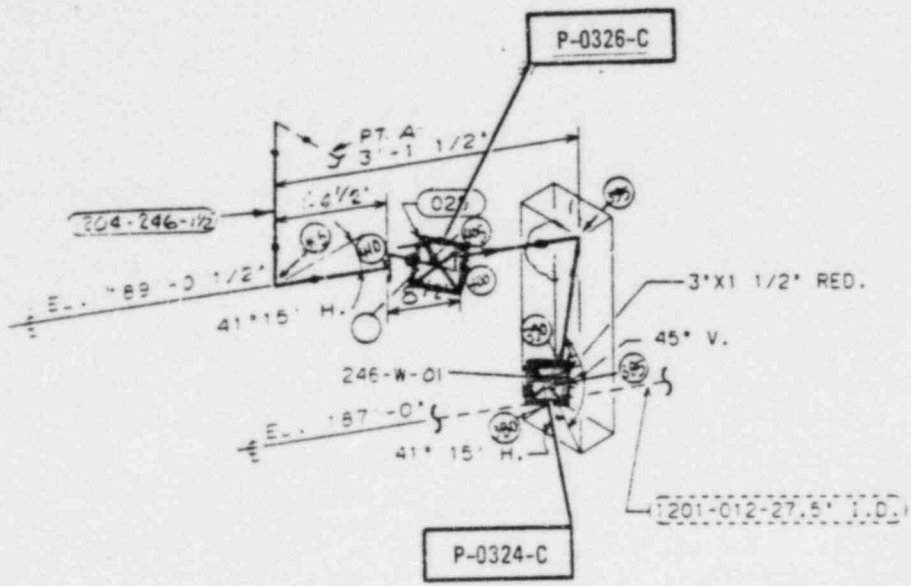


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREAS 4B AND 4C, LEVELS A AND B

FIGURE 3.6.1-1 (SHEET 59 OF 222)

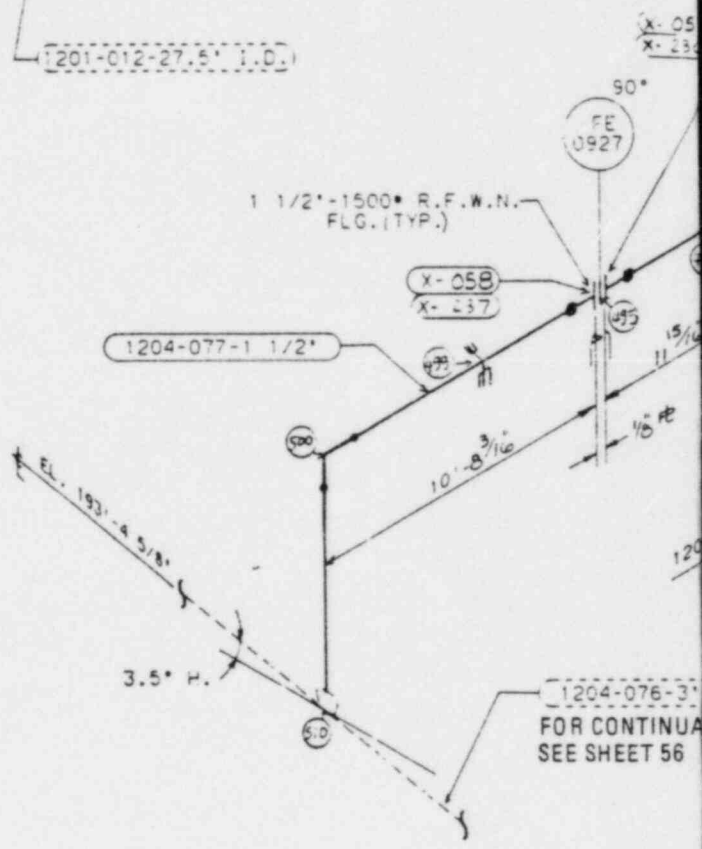
8608210201-37



P-0326-C

P-0324-C

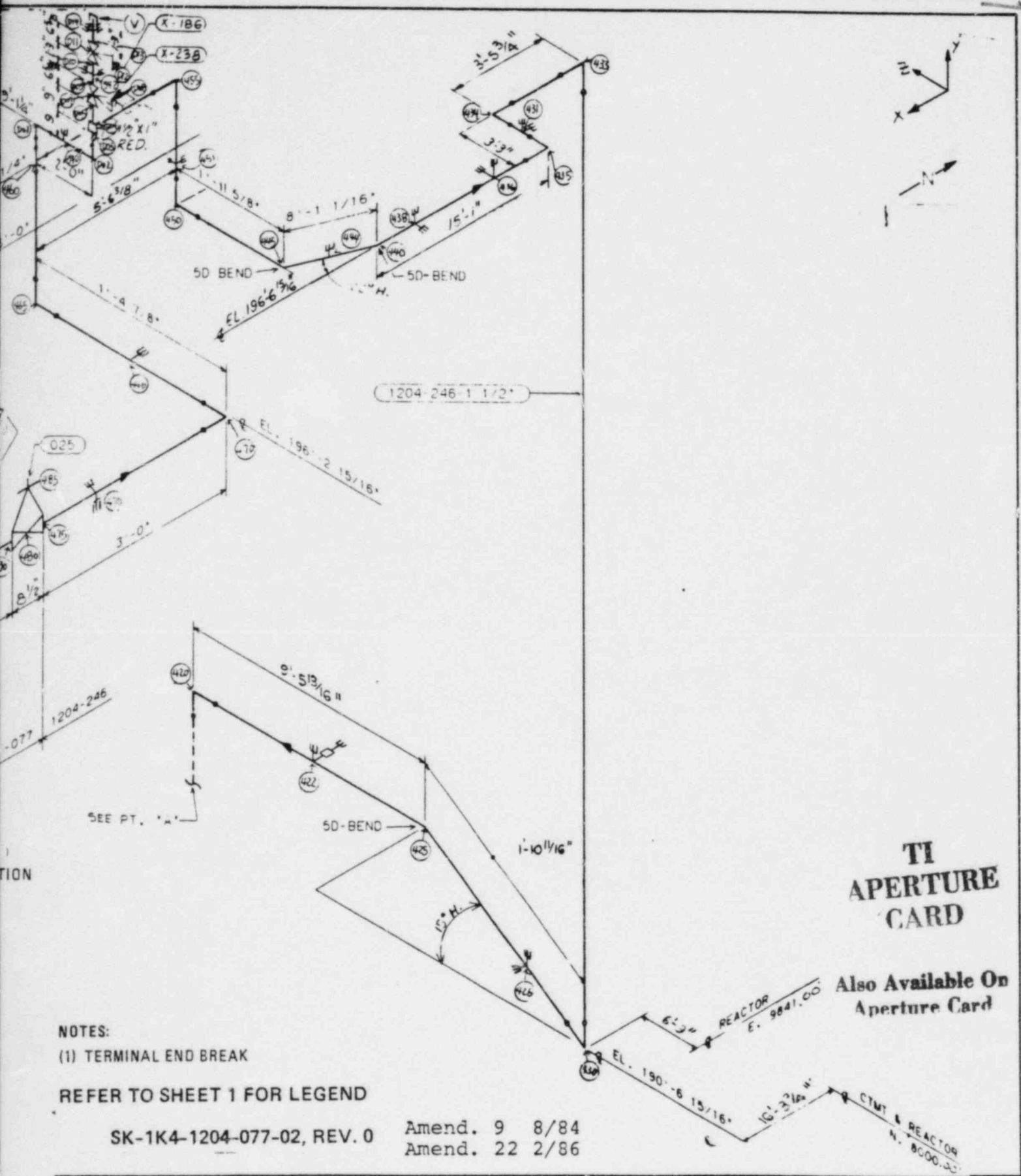
EL. 198'-4"  
LEVEL 'A'  
EL. 197'-0"  
LEVEL 'B'



1 1/2"-1500 R.F.W.N.  
FLG. (TYP.)

1204-076-3"  
FOR CONTINUA  
SEE SHEET 56

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
380	(1)	(1)	32,800
405	(1)	(1)	32,800



**TI APERTURE CARD**

Also Available On Aperture Card

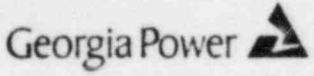
**NOTES:**

(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1204-077-02, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

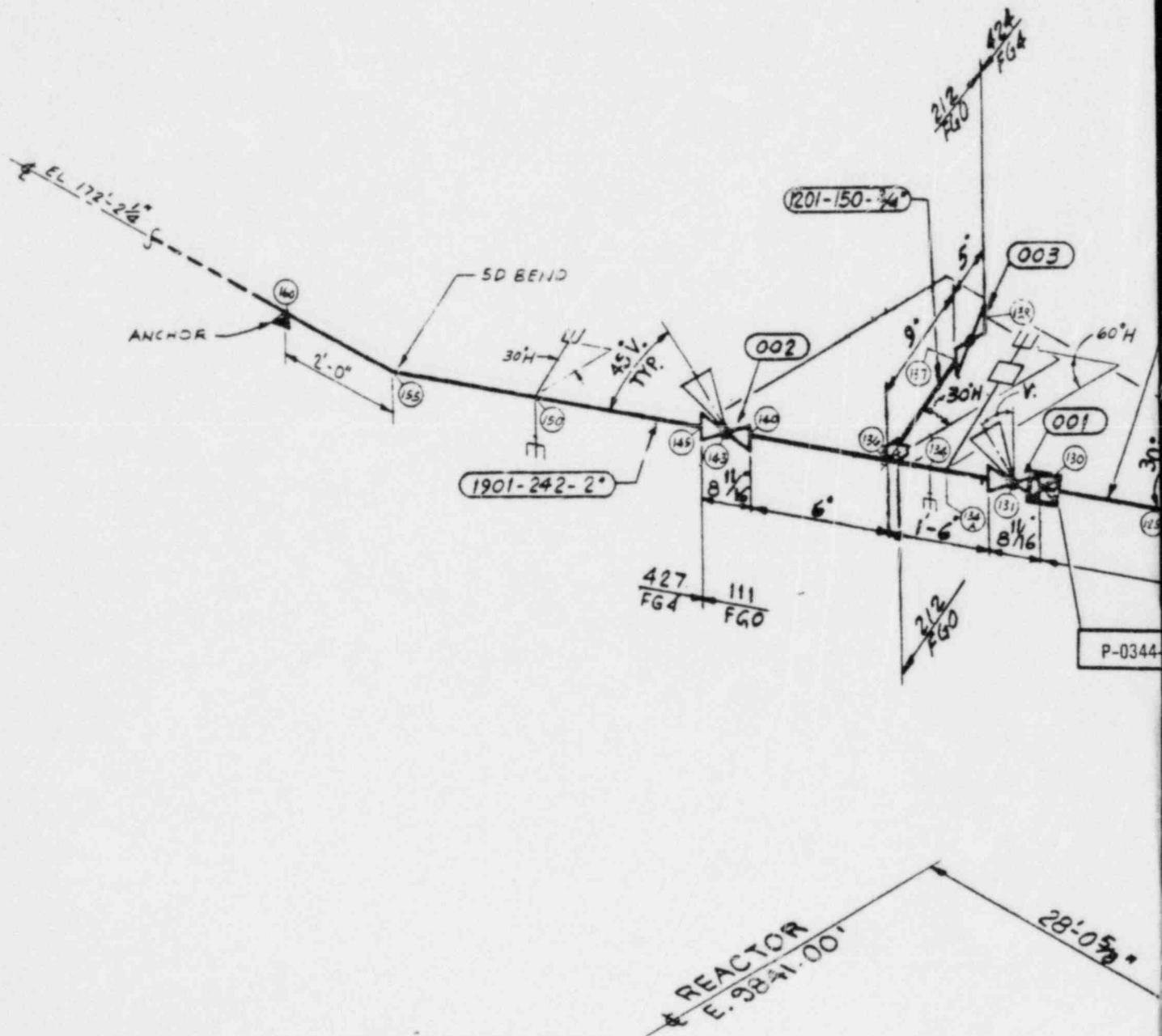


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

SIS ISOMETRIC (STRESS)  
CONTAINMENT BUILDING  
AREA 4D, LEVELS A AND B

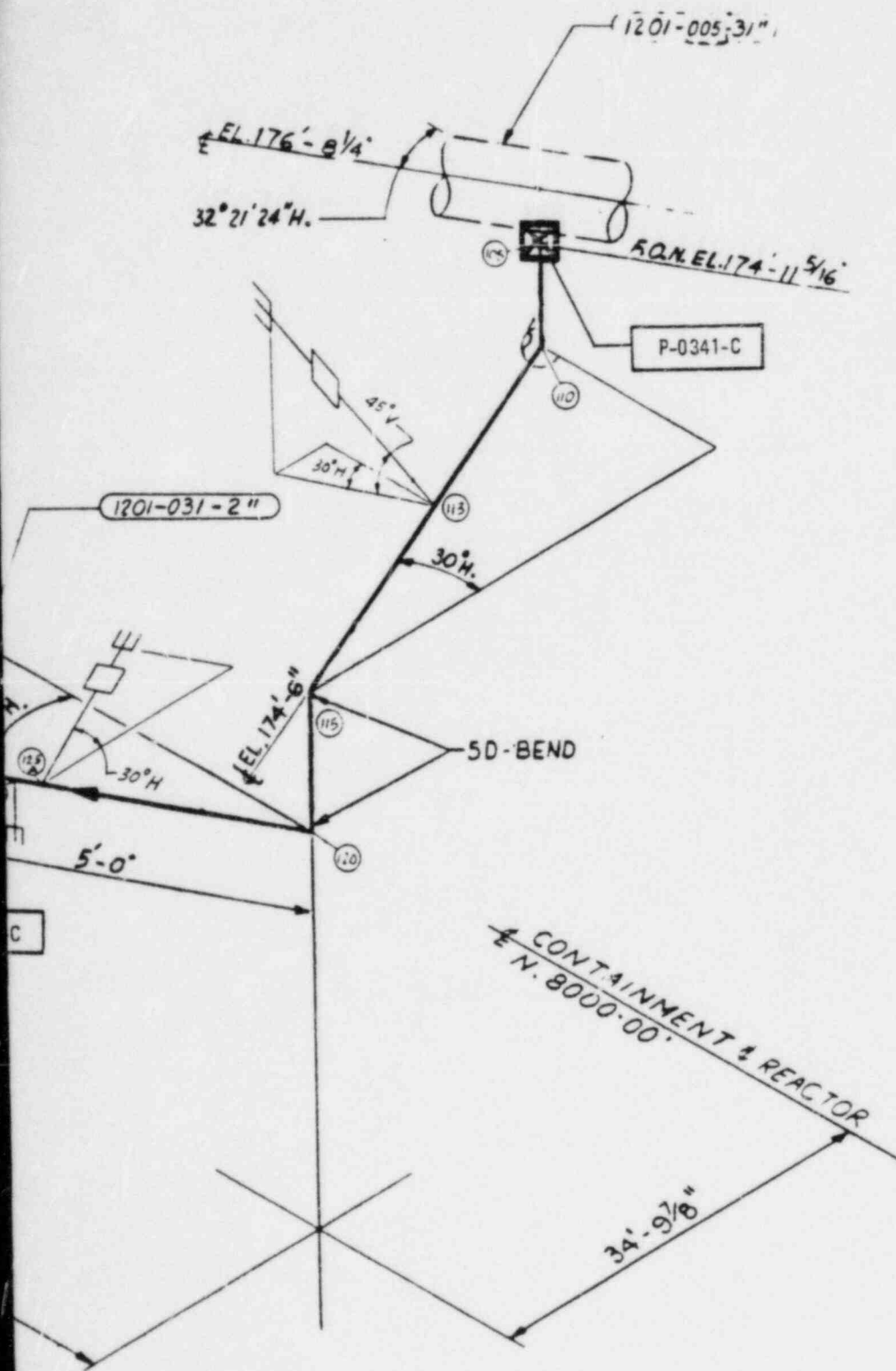
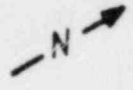
FIGURE 3.6.1-1 (SHEET 60 OF 222)

8608210201-38



NODE PT	EQ. 12 STRESS (%SI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
105	(1)	(1)	32,880
130	(1)	(1)	32,880



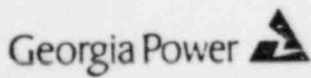


**TI  
APERTURE  
CARD**

Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK  
REFER TO SHEET 1 FOR LEGEND  
SK-1K4-1201-031-01, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

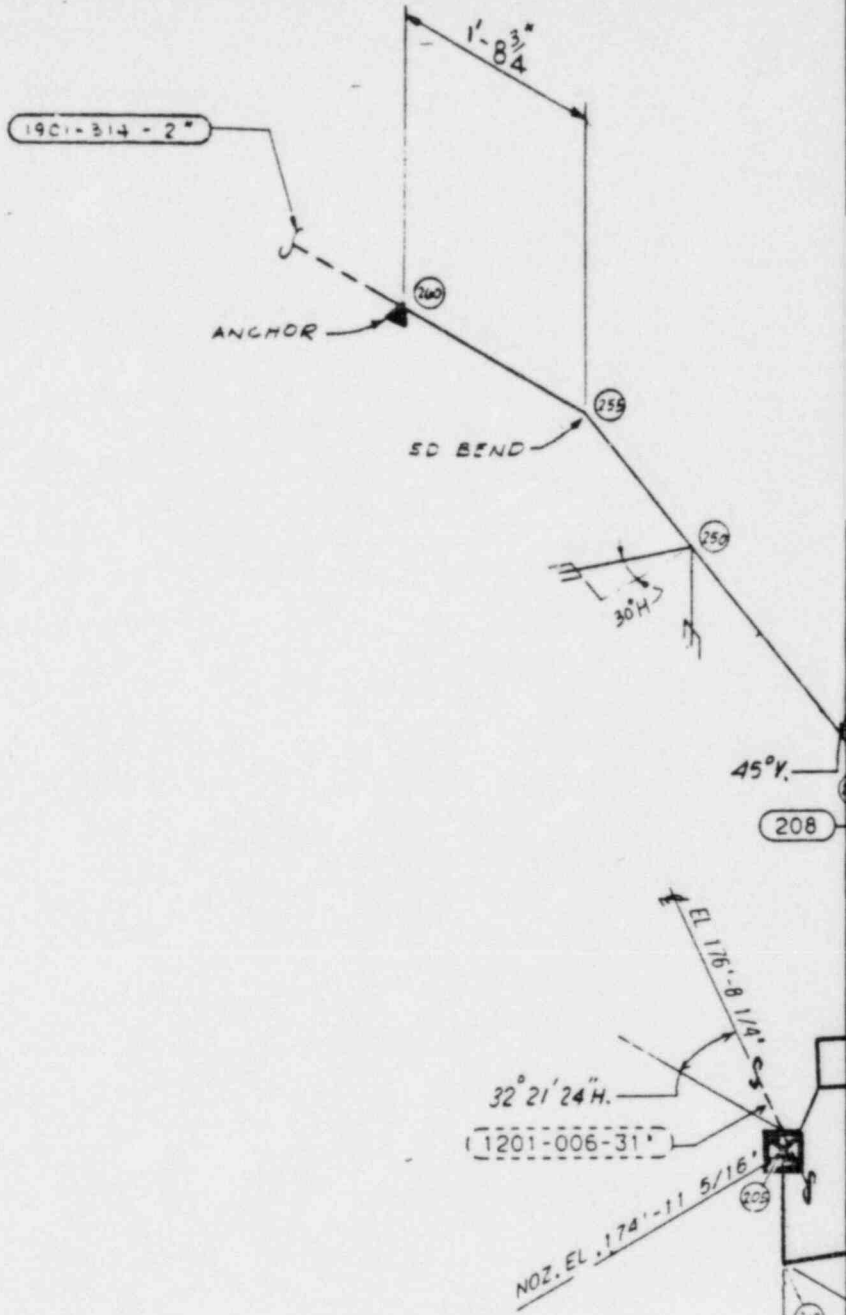


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

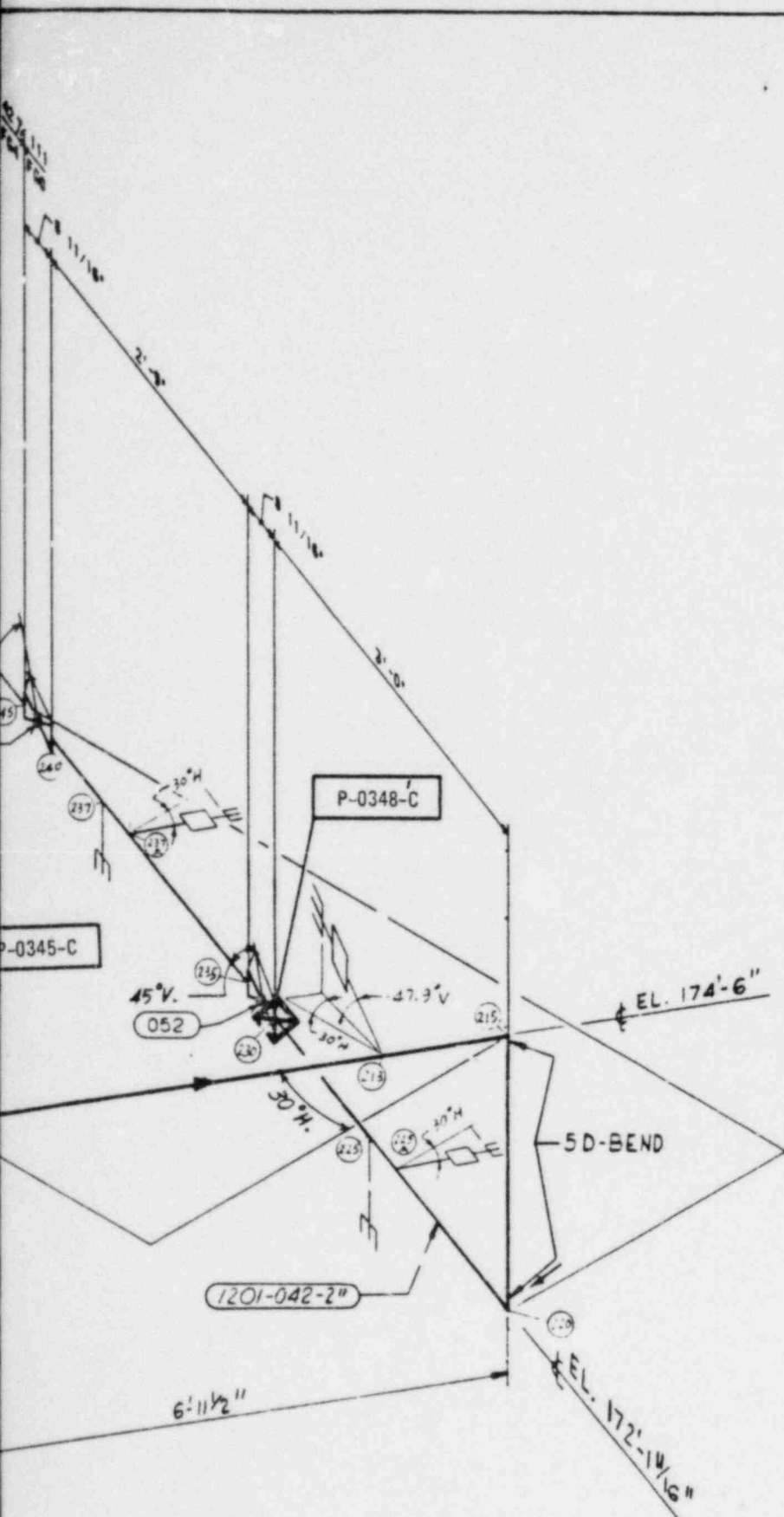
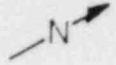
RCS DRAINS - LOOP 1 ISOMETRIC  
(STRESS) CONTAINMENT BUILDING  
AREA 4A, LEVEL C

FIGURE 3.6.1-1 (SHEET 65 OF 222)

8608210201-39



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
205	(1)	(1)	32,880
230	(1)	(1)	32,880



# TI APERTURE CARD

Also Available On Aperture Card

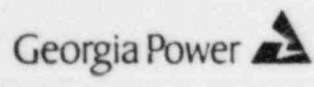
**NOTES:**

- (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-042-02, REV. 0

- Amend. 9 8/84
- Amend. 22 2/86

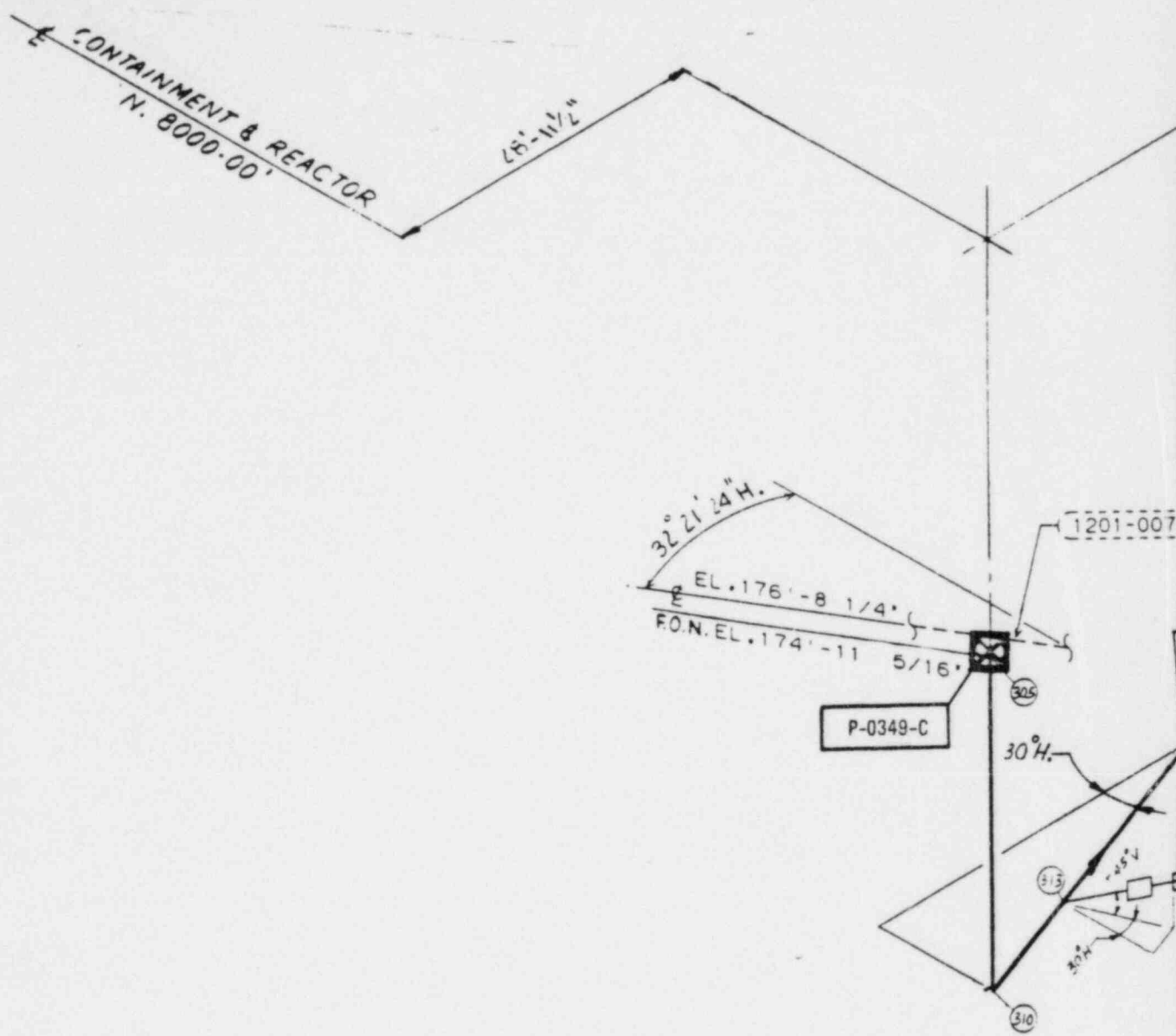


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

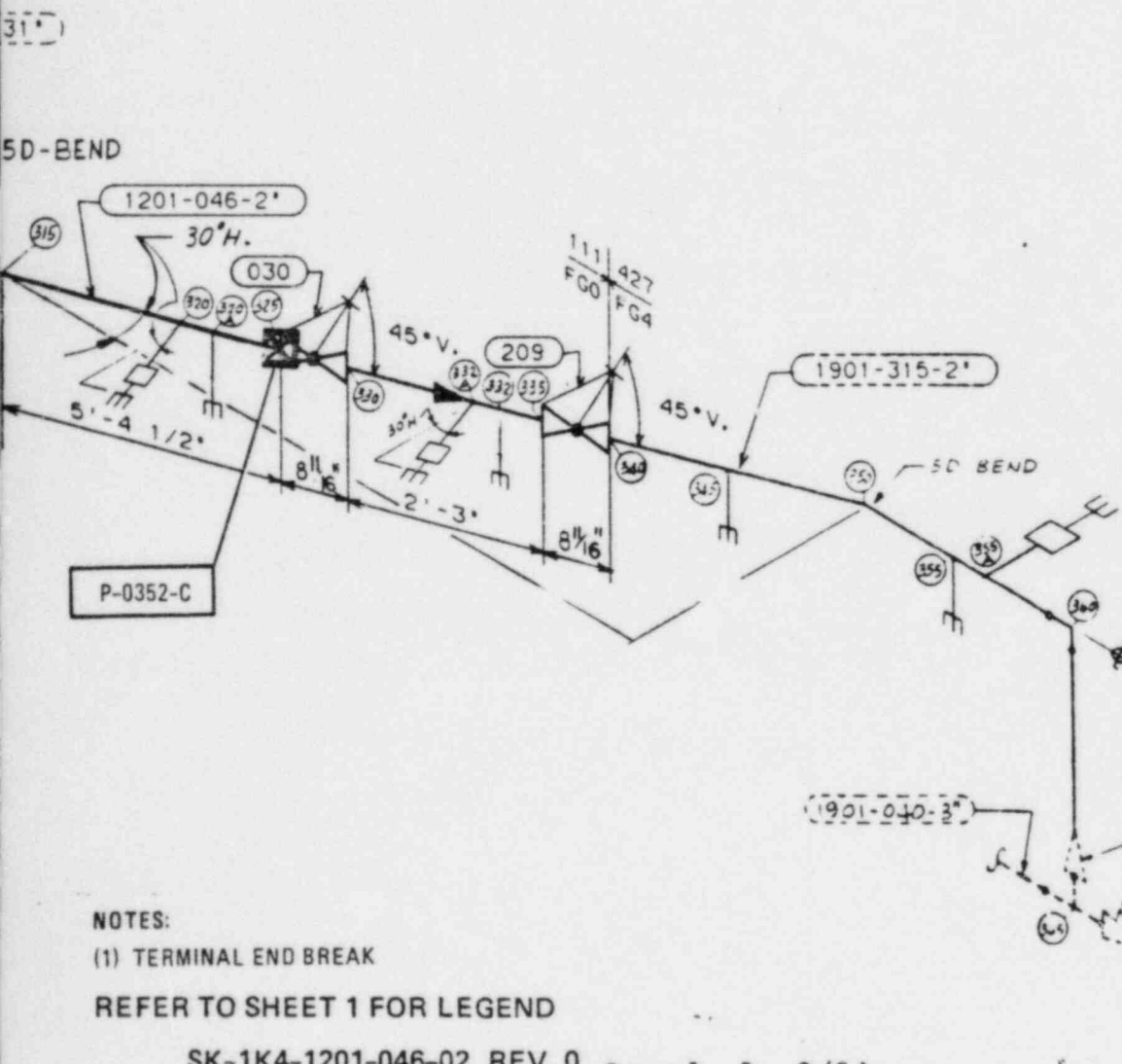
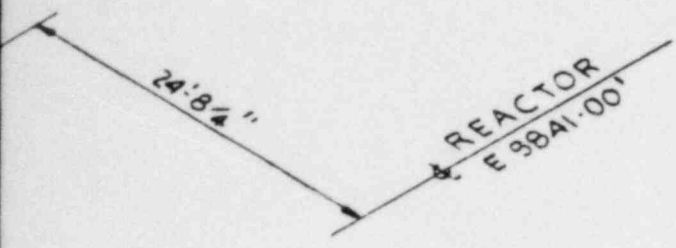
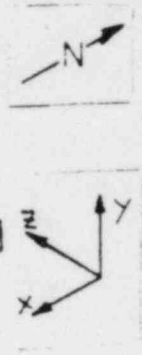
RCS DRAINS - LOOP 2 ISOMETRIC  
(STRESS) CONTAINMENT BUILDING  
AREA 4B, LEVEL C

FIGURE 3.6.1-1 (SHEET 66 OF 222)

8608210201-40



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
305	(1)	(1)	32,880
325	(1)	(1)	32,880



**TI APERTURE CARD**

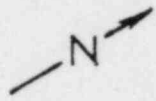
Also Available On Aperture Card

NOTES:  
 (1) TERMINAL END BREAK  
 REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-046-02, REV. 0 Amend. 9 8/84  
 Amend. 22 2/86

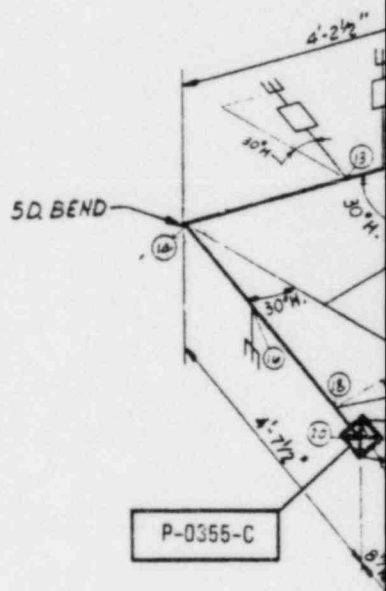
	VOGTLE ELECTRIC GENERATING PLANT UNIT 1 AND UNIT 2	RCS DRAINS - LOOP 3 ISOMETRIC (STRESS) CONTAINMENT BUILDING AREA 4C, LEVEL C
	FIGURE 3.6.1-1 (SHEET 67 OF 222)	

8608210201-41

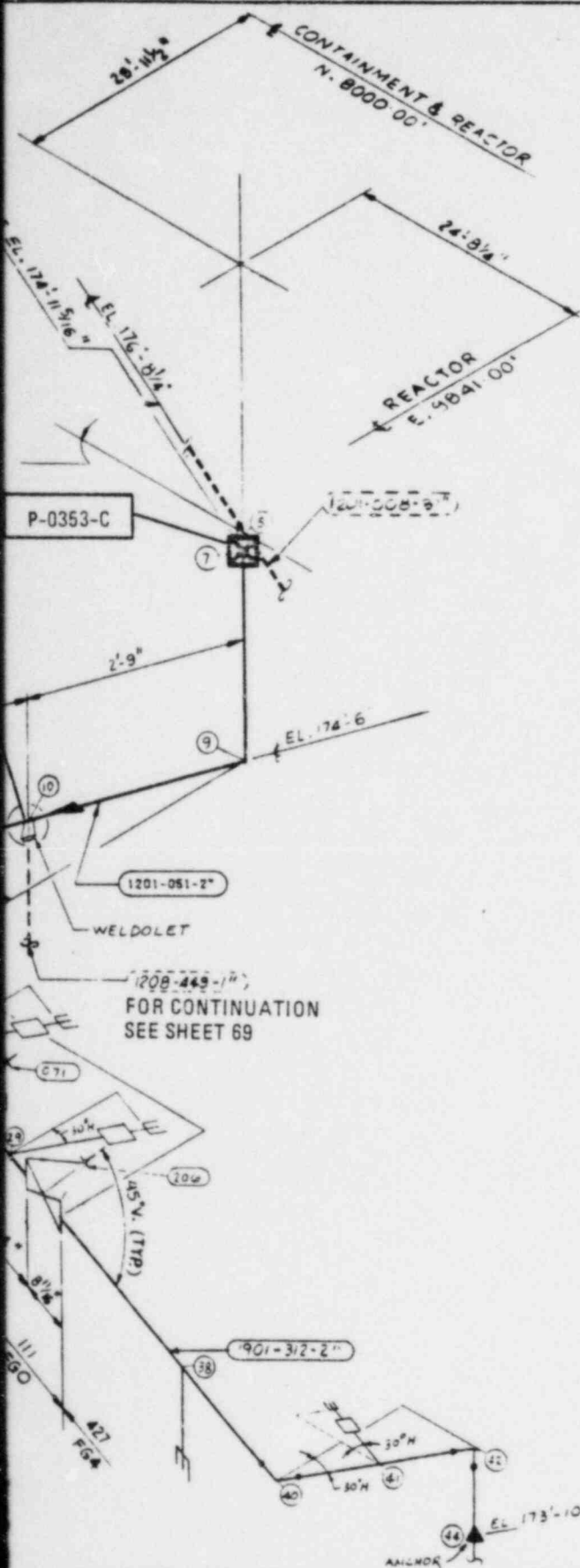


32° 21' 2"

P-0354-C



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
7	(1)	(1)	32,880
10	40,913	41,100	32,880
20	(1)	(1)	32,880



# TI APERTURE CARD

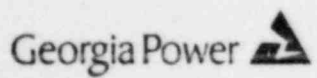
Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-051-01, REV. 0

Amend. 9 8/84  
Amend. 22 2/86



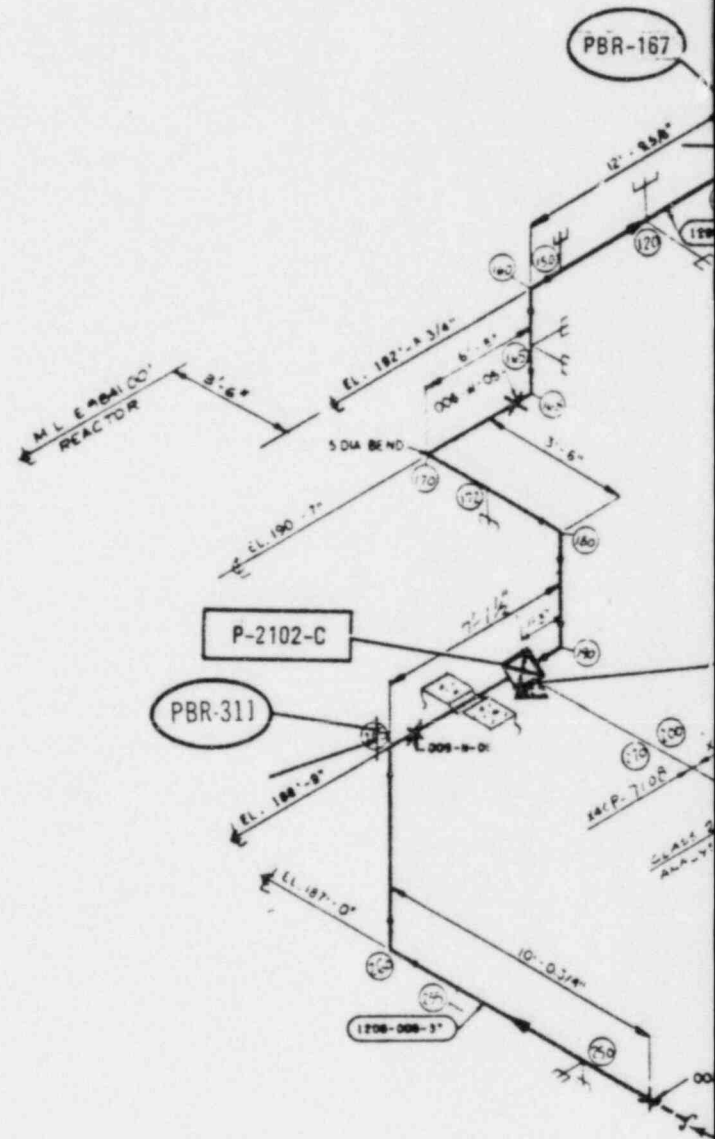
VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

RCS DRAINS - LOOP 4 ISOMETRIC  
(STRESS) CONTAINMENT BUILDING  
AREA 4D, LEVEL C

FIGURE 3.6.1-1 (SHEET 68 OF 222)

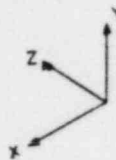
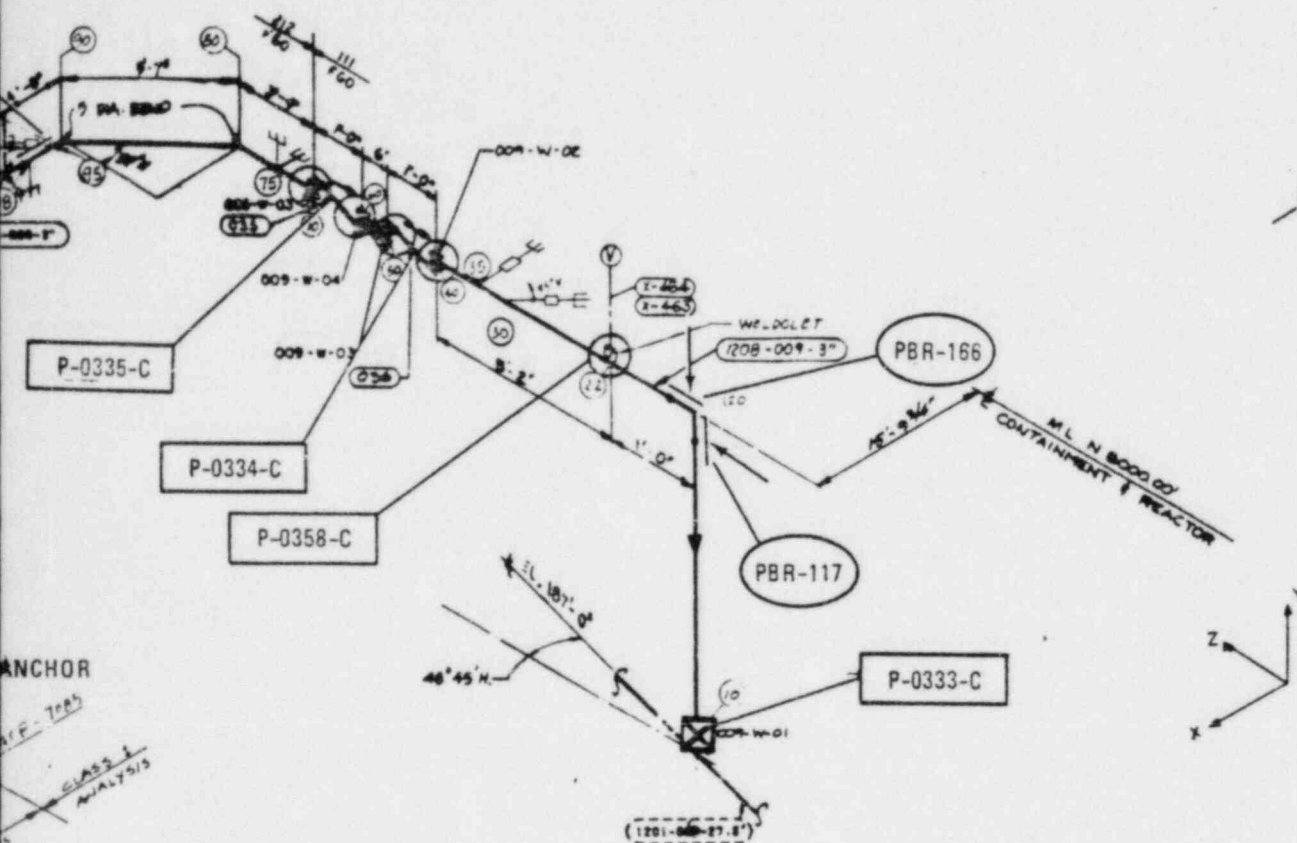
8608210201-42

PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-117	20
PBR-166	21
PBR-167	21
PBR-311	12



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
10	(1)	(1)	32,880
22	5,147	26,811 (2)	32,880
40	20,239	40,000	32,880
50	20,239	40,000	32,880
60	26,268	40,000	32,880
70	26,268	40,000	32,880
200/270	(1)	(1)	32,880





ANCHOR  
 REF - TRANS  
 CLASS 1  
 ANALYSIS

W-REF

FOR CONTINUATION  
 SEE SHEET 79

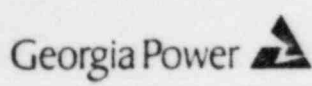
# TI APERTURE CARD

Also Available On  
 Aperture Card

NOTES:  
 (1) TERMINAL END BREAK  
 (2) USAGE FACTOR > 0.1  
 REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-008-03, REV. 2

Amend. 9 8/84  
 Amend. 22 2/86



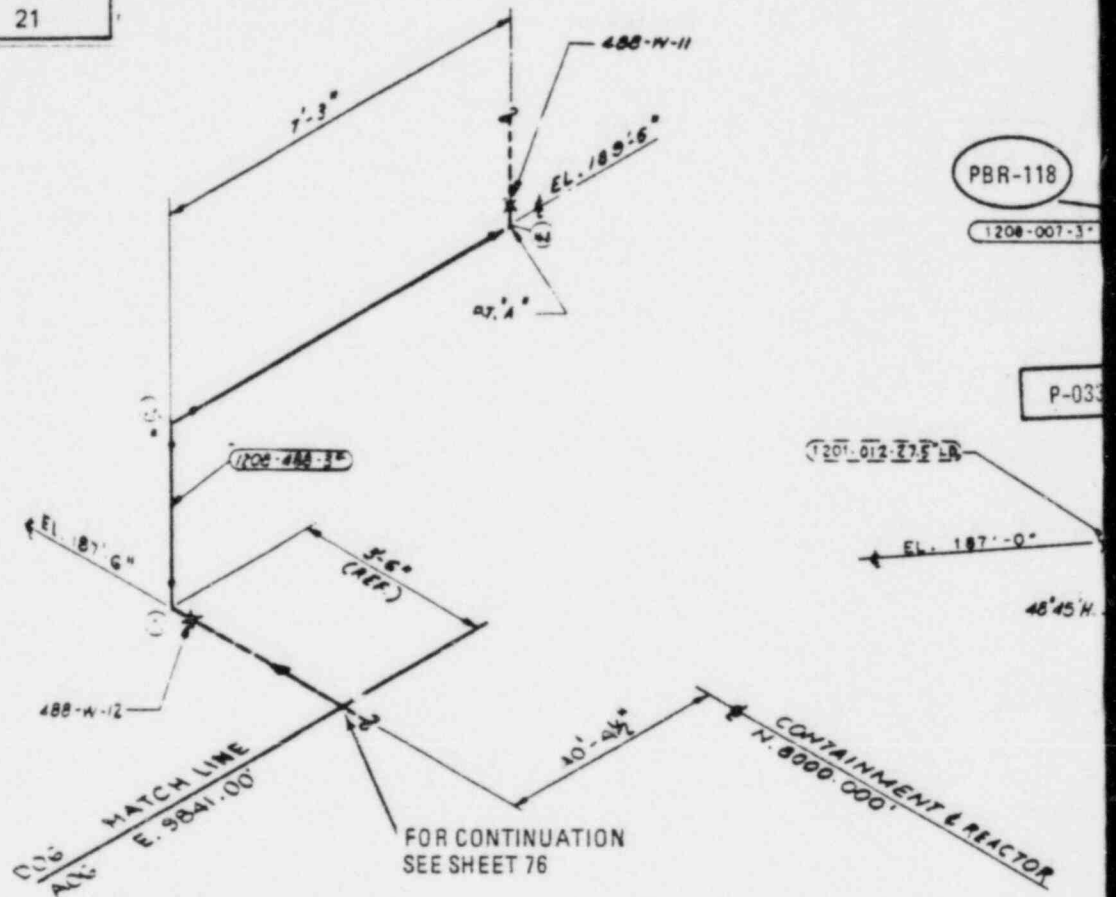
VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

CVCS NORMAL CHARGING TO LOOP 1  
 CONTAINMENT BLDG. AREA 4A LEVEL B

FIGURE 3.6.1-1 (SHEET 74 OF 222)

8608210201-43

PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-118	20
PBR-119	21
PBR-165	21

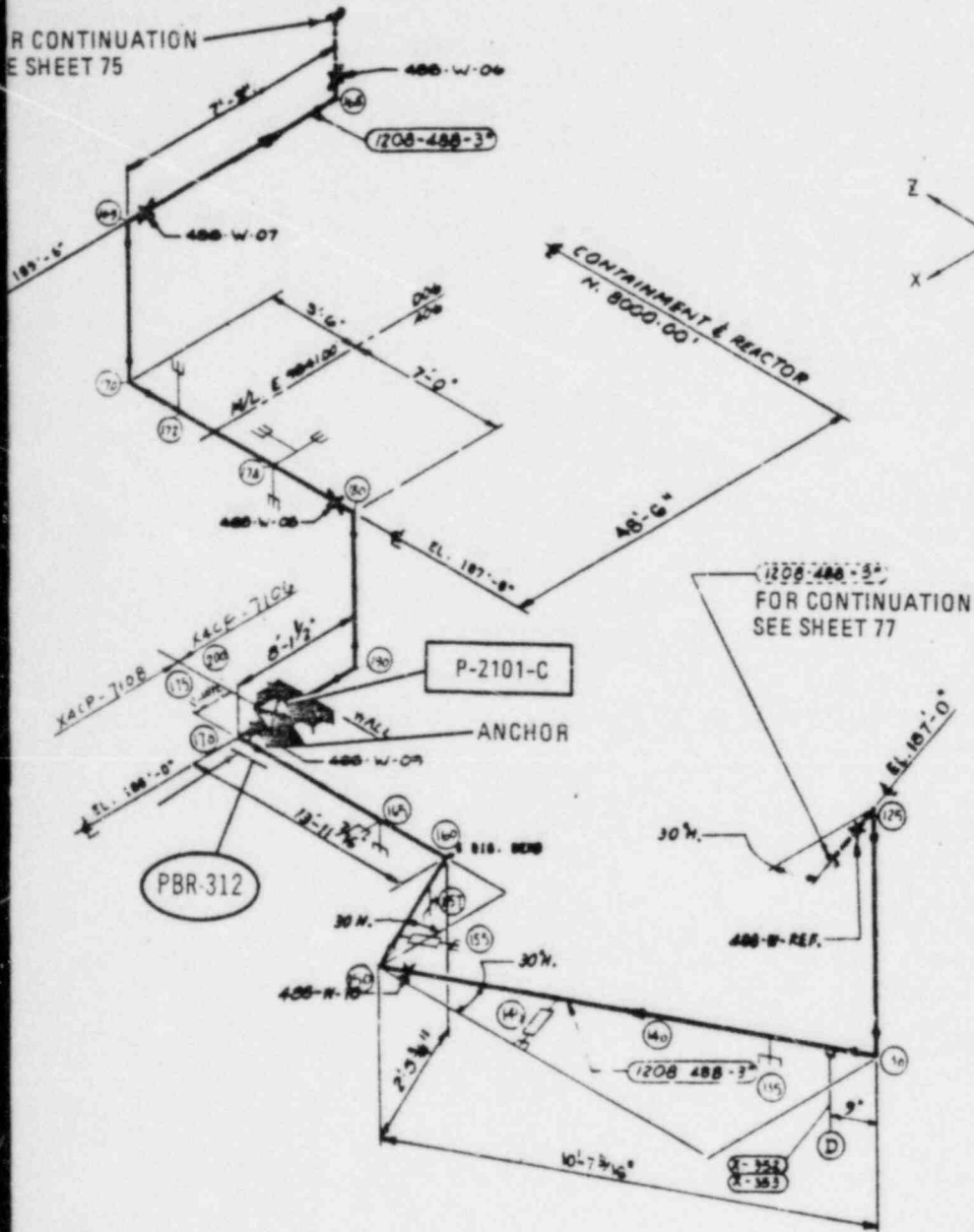


NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
10	(1)	(1)	32,880
25	6,010	15,995(2)	32,880
40	26,755	40,000	32,880
50	26,755	40,000	32,880
60	31,836	40,000	32,880
70	31,836	40,000	32,880



PIPE BREAK RESTRAINT NUMBER	THRUST LOAD (KIPS)
PBR-312	12

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
200	(1)	(1)	32,880



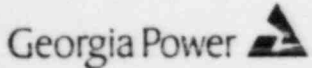
# TI APERTURE CARD

Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK  
REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-488-03, REV. 4

Amend. 9 8/84  
Amend. 22 2/86

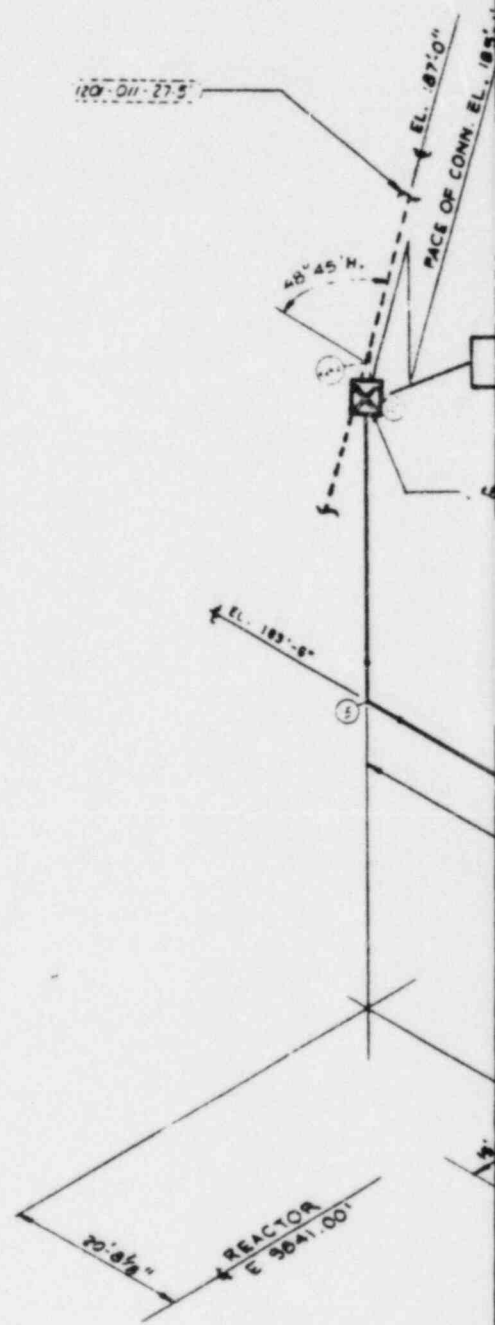


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

CVCS ALTERNATE CHARGING TO LOOP 4  
CONTAINMENT BLDG. AREA 4A, D LEVEL B

FIGURE 3.6.1-1 (SHEET 76 OF 222)

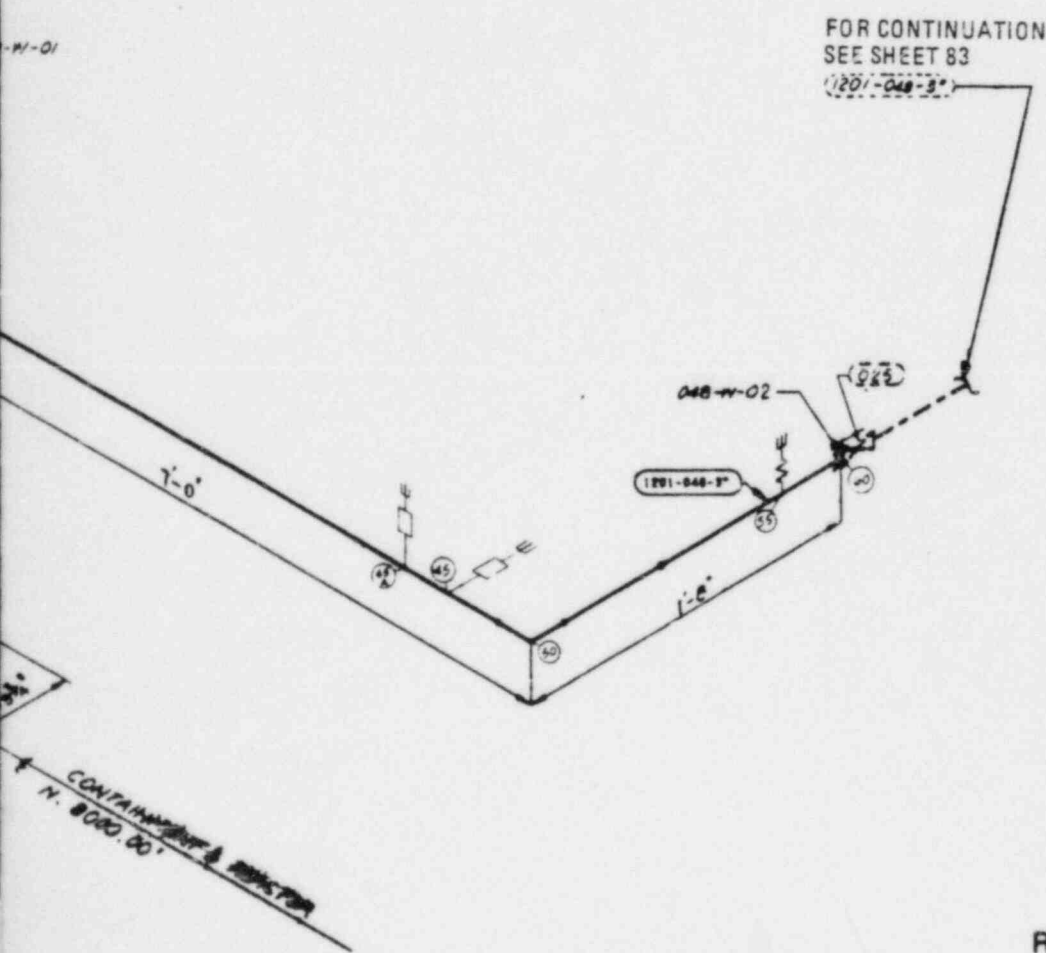
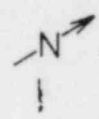
8608210201-45



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
10	(1)	(1)	32,880

P-0327-C

048-N-01



FOR CONTINUATION  
SEE SHEET 83  
(1201-048-3")

# TI APERTURE CARD

Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1201-048-01, REV. 0

Amend. 9 8/84  
Amend. 22 2/86

	<p>VOGTLE ELECTRIC GENERATING PLANT UNIT 1 AND UNIT 2</p>
--	---

<p>CVCS NORMAL LETDOWN FROM LOOP 3 TO REGULAR HEAT EXCHANGER CONTAINMENT BUILDING AREA 4C LEVEL B</p>
<p>FIGURE 3.6.1-1 (SHEET 81 OF 222)</p>

8608210201-46

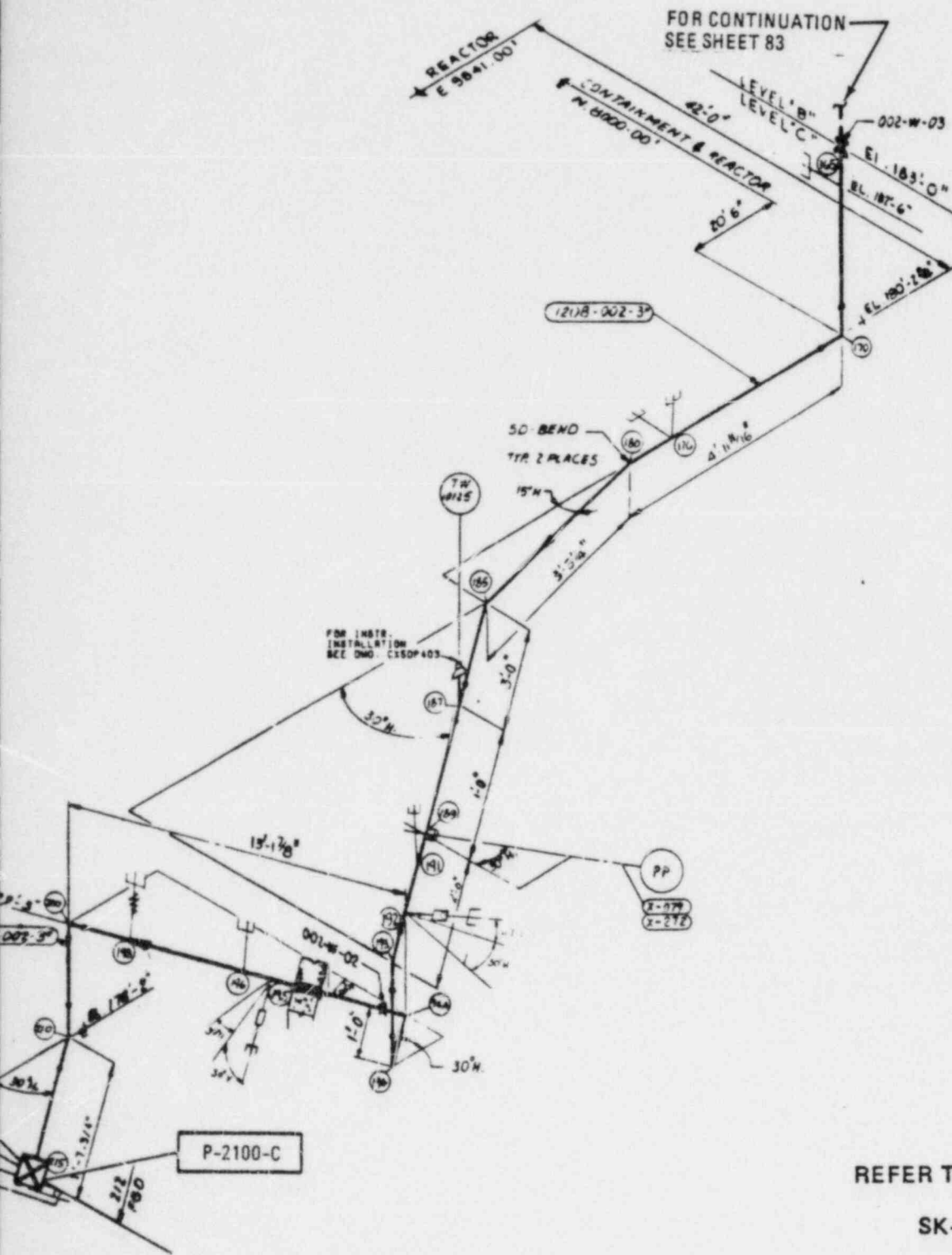
4.1.1  
1208

002-W-01

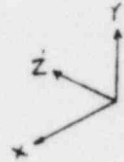
30°  
REGENERATIVE  
HEAT EXCHANGER  
1-1208-EG-001

NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
215	(1)	(1)	32,880





FOR CONTINUATION  
SEE SHEET 83



# TI APERTURE CARD

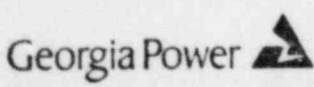
Also Available On  
Aperture Card

NOTES:  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-002-02, REV. 0

Amend. 9 8/84  
Amend. 22 2/86



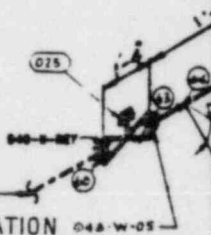
VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

CVCS NORMAL LETDOWN FROM  
LOOP 3 TO REG. HEAT EXCHANGER  
CONTAINMENT BLDG. AREA 4A LEVEL C

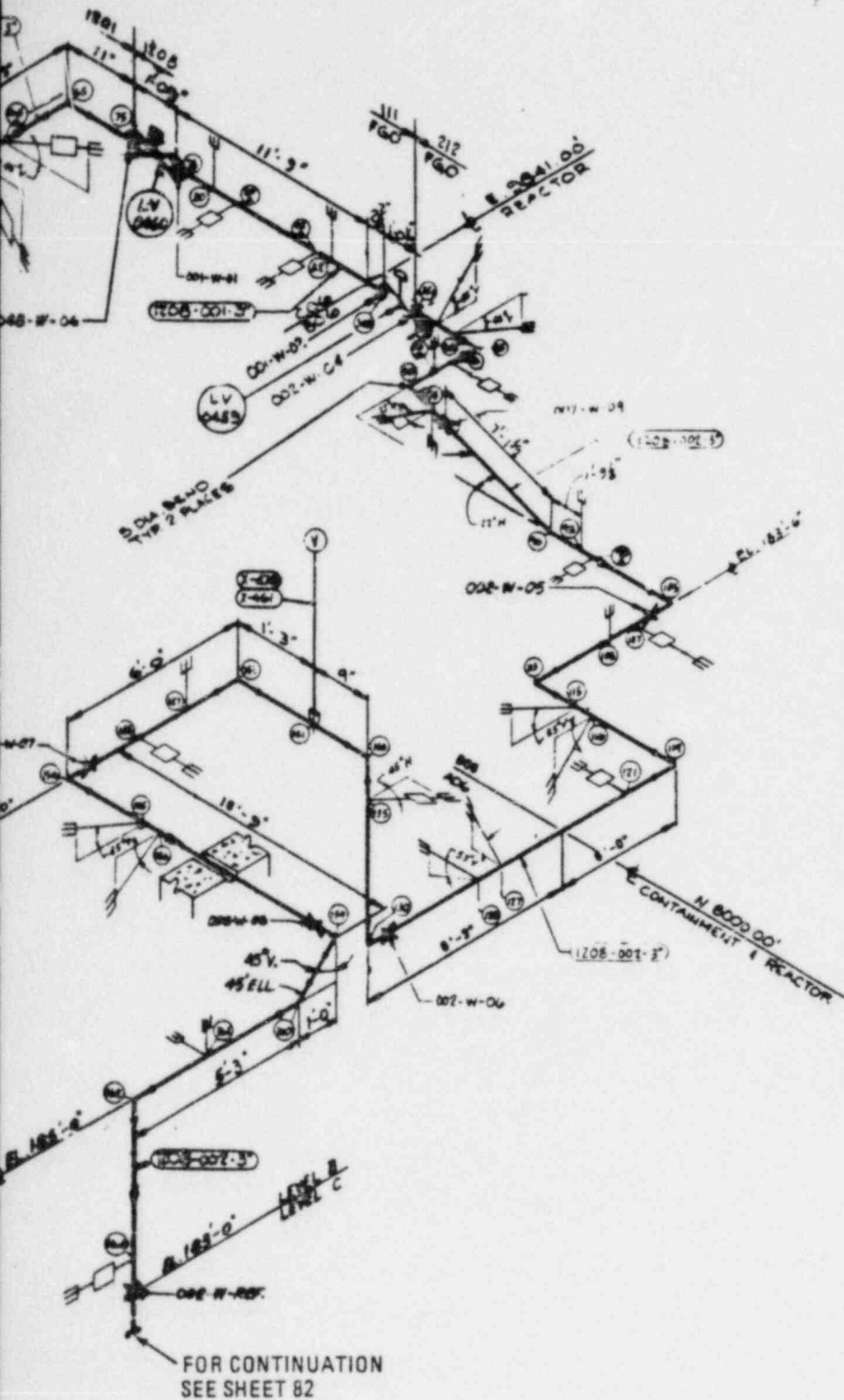
FIGURE 3.6.1-1 (SHEET 82 OF 222)

8608210201-47

1201-048



FOR CONTINUATION  
SEE SHEET 81



# TI APERTURE CARD


Also Available On  
TI System Cards

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-002-03, REV. 0

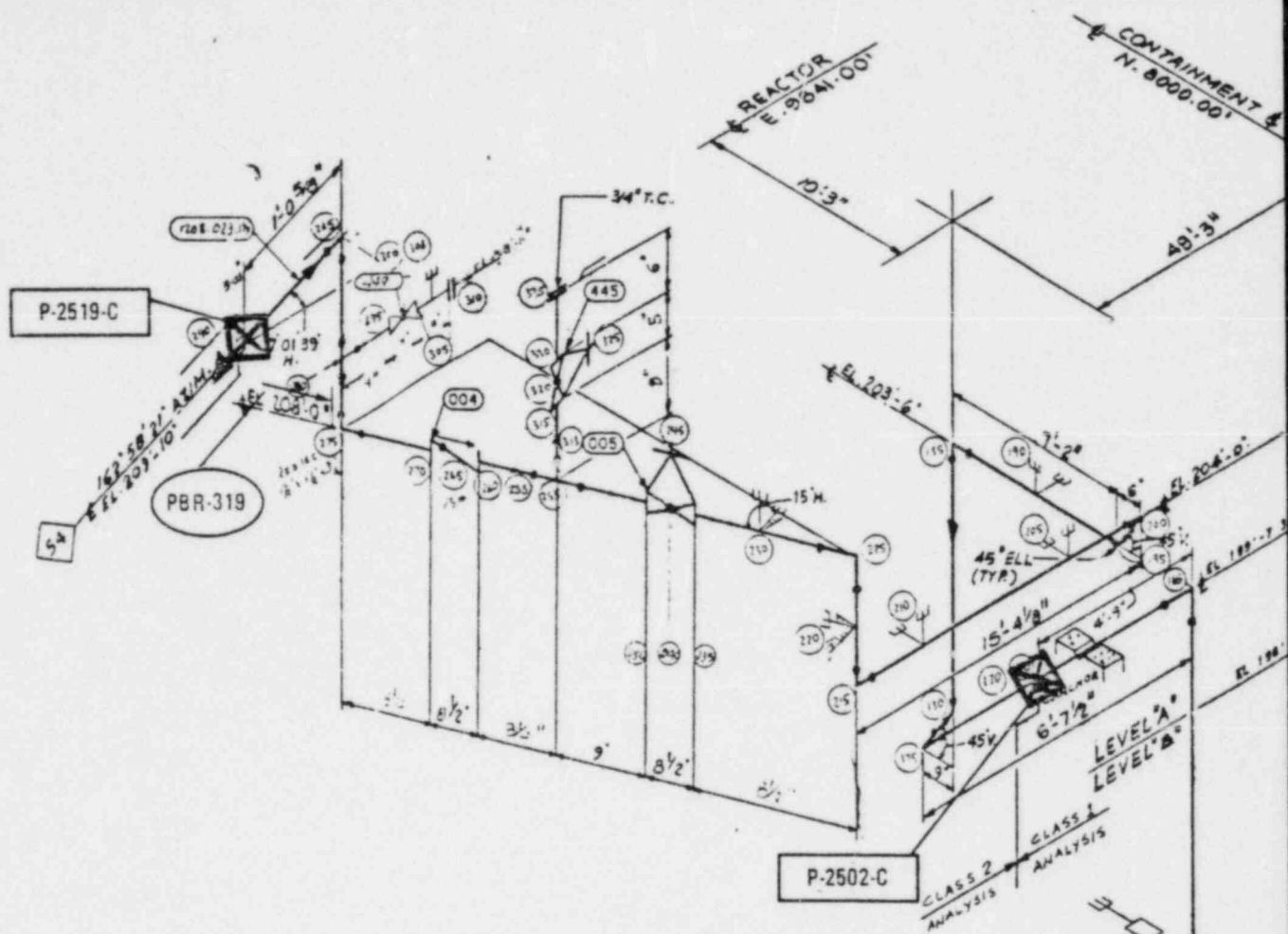
Amend. 9 8/84  
Amend. 22 2/86

FOR CONTINUATION  
SEE SHEET 82

Georgia Power  VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

CVCS NORMAL LETDOWN FROM  
LOOP 3 TO REG. HEAT EXCHANGER  
CONTAINMENT BLDG. AREA 4A,B,C LEVELS  
FIGURE 3.6.1-1 (SHEET 83 OF 222)

8608210201-48



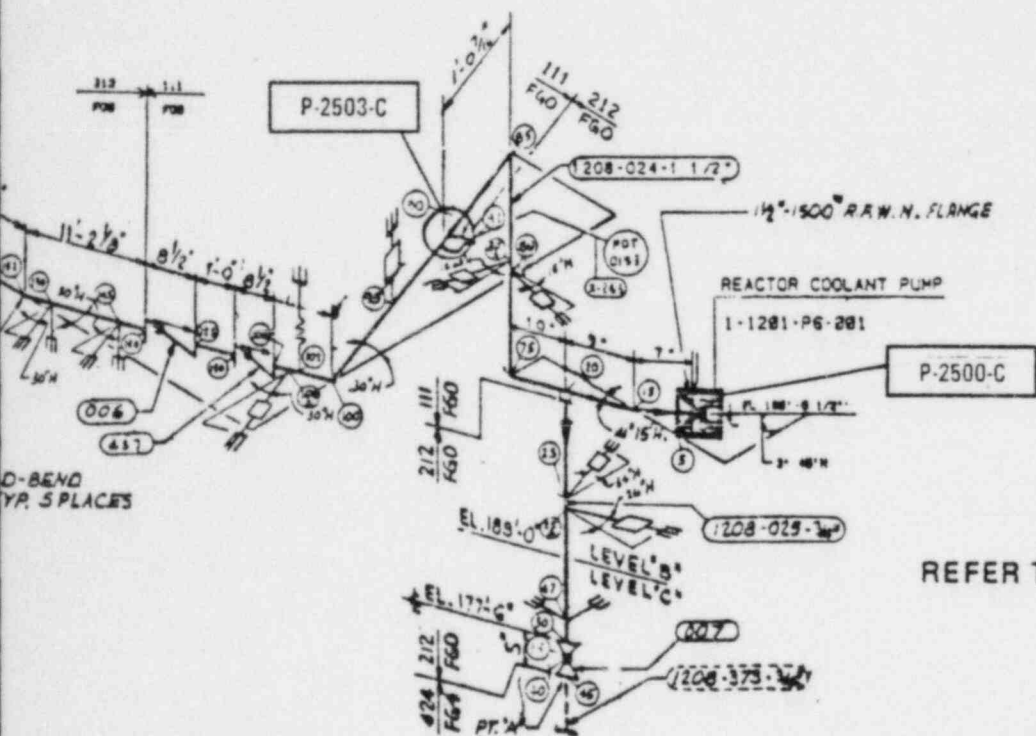
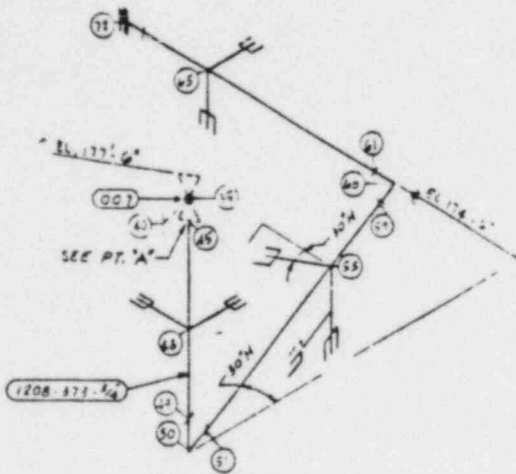
NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
5	(1)	(1)	32,880
90	7,211	40,000	32,880
170	(1)	(1)	32,880

(CLASS 1 PORTION)

NODE POINT	PRIMARY STRESS (PSI)	SECONDARY STRESS (PSI)	TOTAL STRESS (PSI)	PIPE BREAK STRESS LIMIT (PSI)
170	(1)	(1)	(1)	33,912
290	(1)	(1)	(1)	33,912

(CLASS 2 PORTION)

PIPE BREAK RESTRAINT NUMBER	THRUST FORCE (KIPS)
PBR-319	7



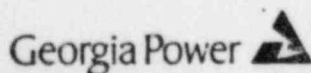
# TI APERTURE CARD

Also Available On Aperture Card

- NOTES:  
 (1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-024-02, REV. 1  
 Amend. 9 8/84  
 Amend. 22 2/86

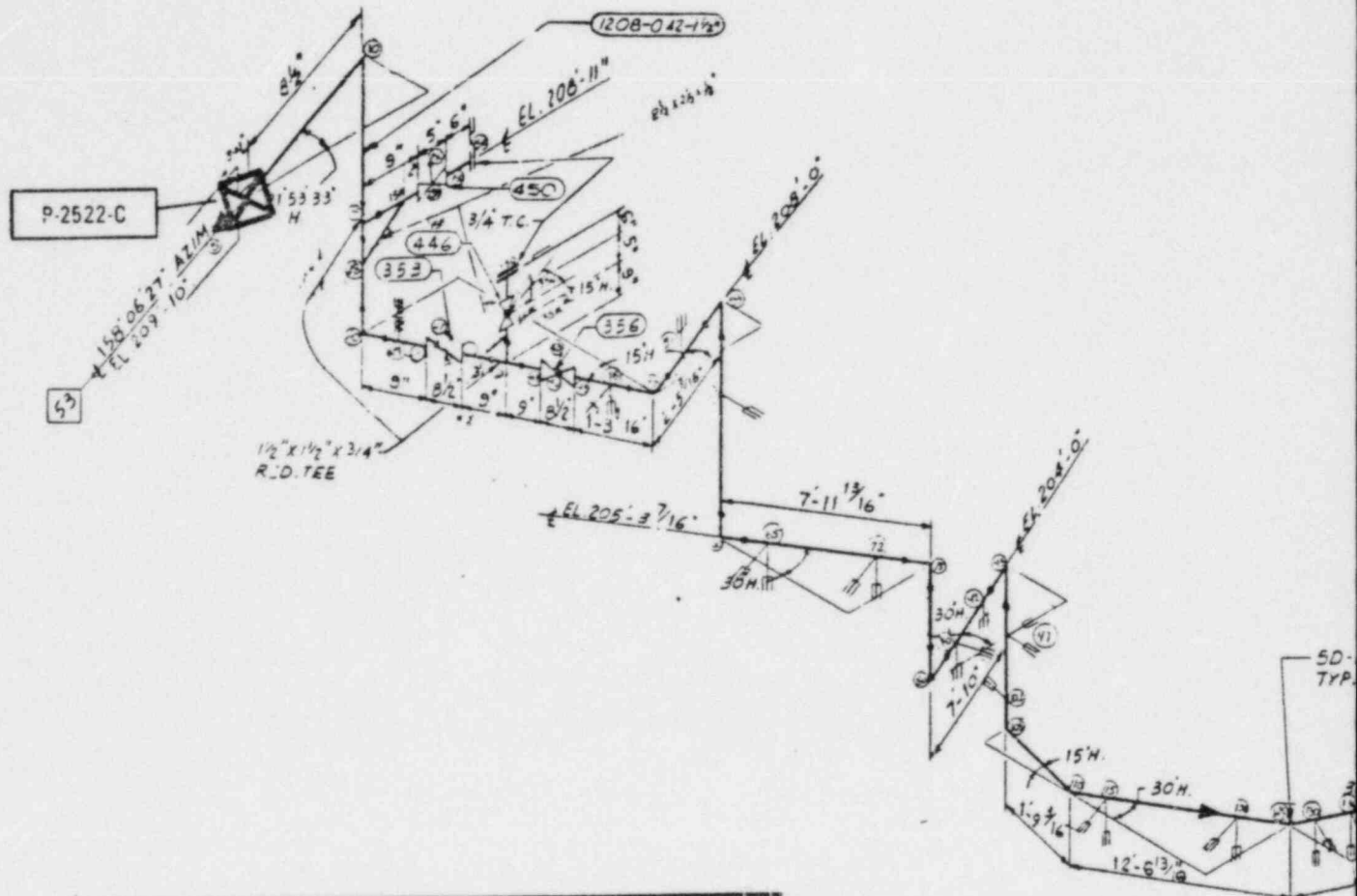


VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

CHEMICAL AND VOLUME CONTROL SYSTEM  
 CONTAINMENT BUILDING AREA  
 4A, LEVEL A, B, & C

FIGURE 3.6.1-1 (SHEET 195 OF 222)

8608210201-49

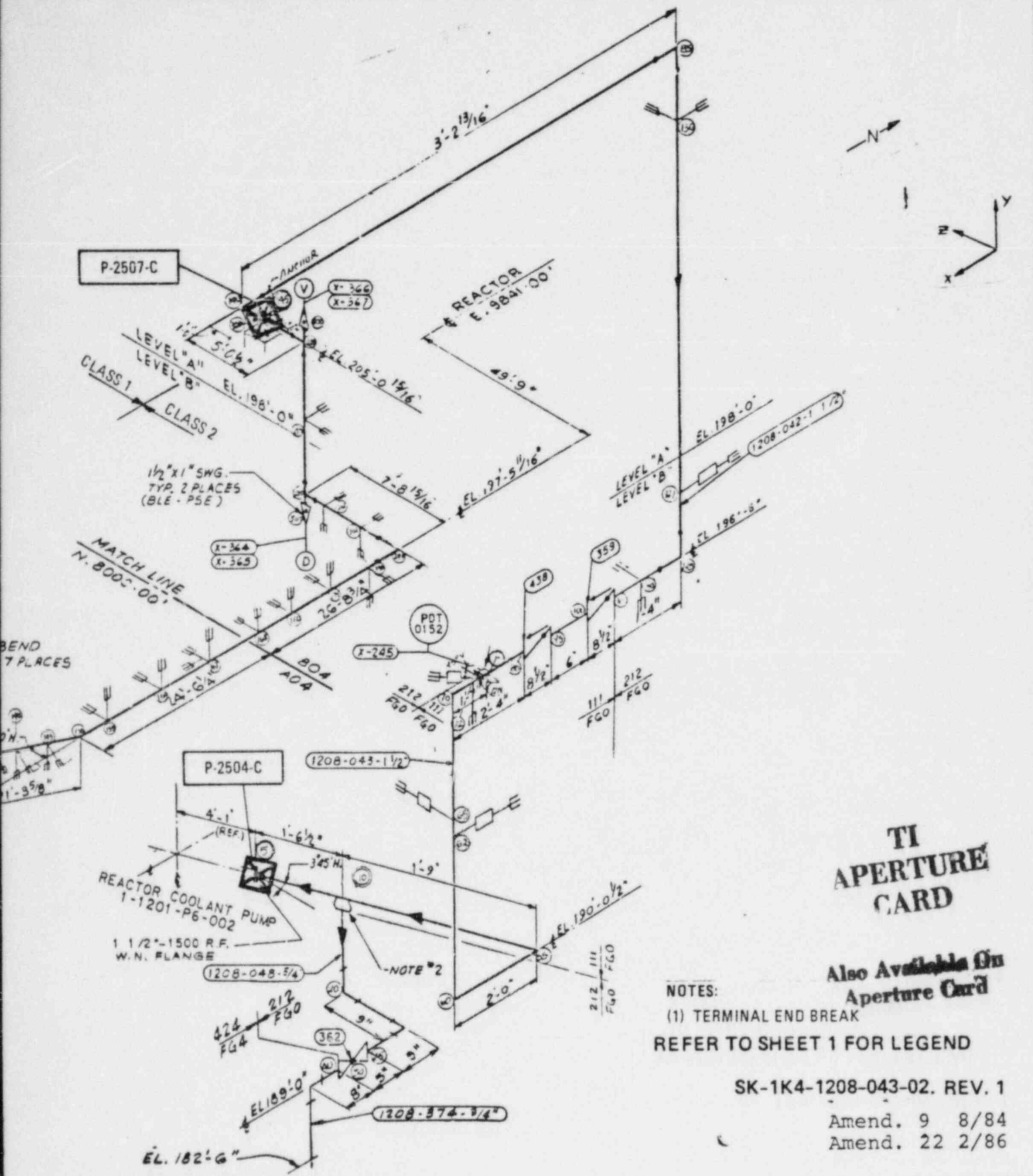


NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
5	(1)	(1)	32,880
145	(1)	(1)	32,880

(CLASS 1 PORTION)

NODE POINT	PRIMARY STRESS (PSI)	SECONDARY STRESS (PSI)	TOTAL STRESS (PSI)	PIPE BREAK STRESS LIMIT (PSI)
5	(1)	(1)	(1)	33,912
145	(1)	(1)	(1)	33,912

(CLASS 2 PORTION)

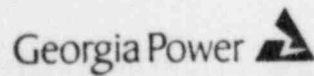


**TI APERTURE CARD**

Also Available On Aperture Card

NOTES:  
 (1) TERMINAL END BREAK  
 REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-043-02. REV. 1  
 Amend. 9 8/84  
 Amend. 22 2/86

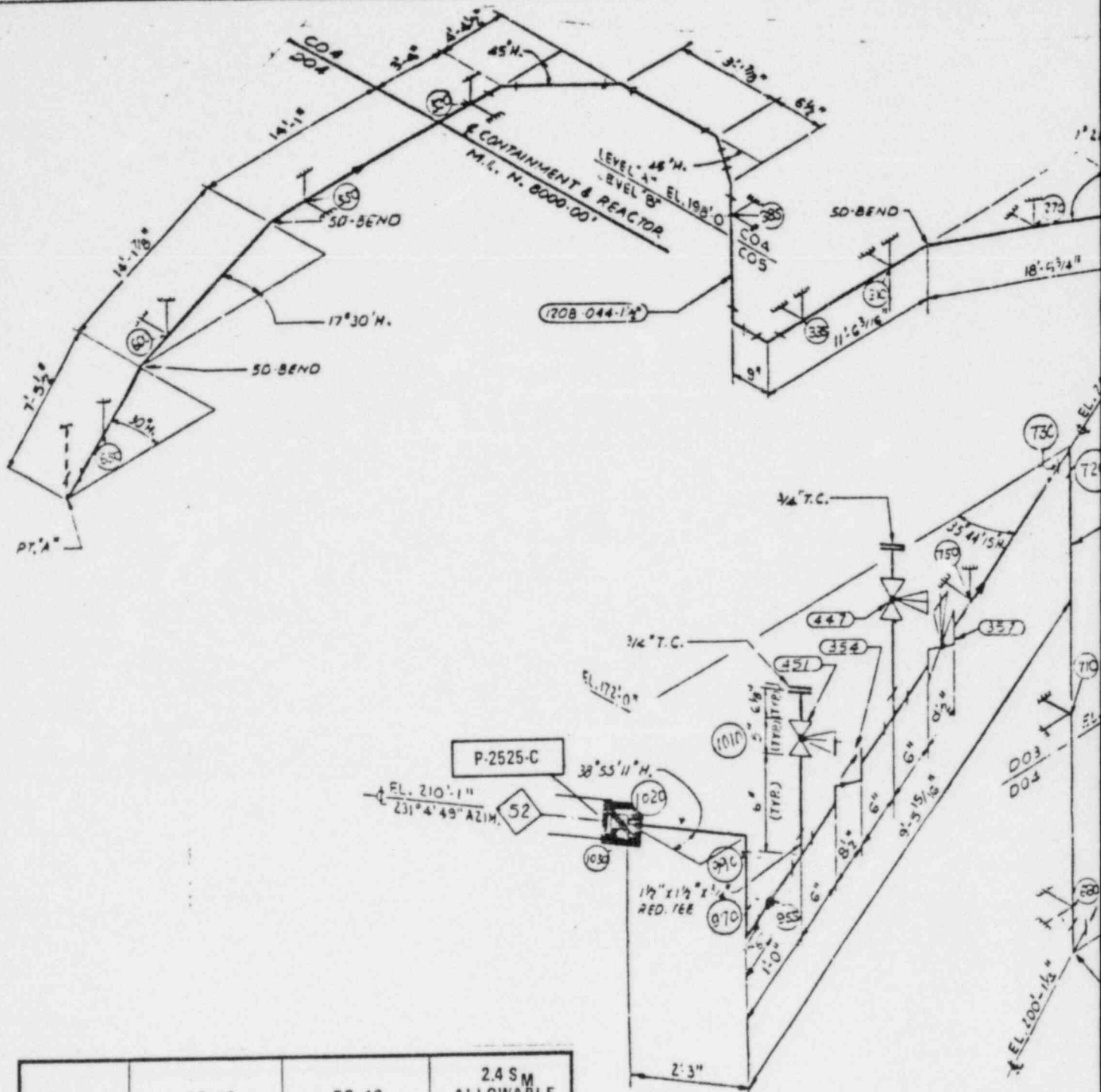


VOGTLE  
 ELECTRIC GENERATING PLANT  
 UNIT 1 AND UNIT 2

CHEMICAL AND VOLUME CONTROL SYSTEM  
 CONTAINMENT BUILDING AREA  
 4A&4B LEVEL B&A

FIGURE 3.6.1-1 (SHEET 196 OF 222)

8608210201-50



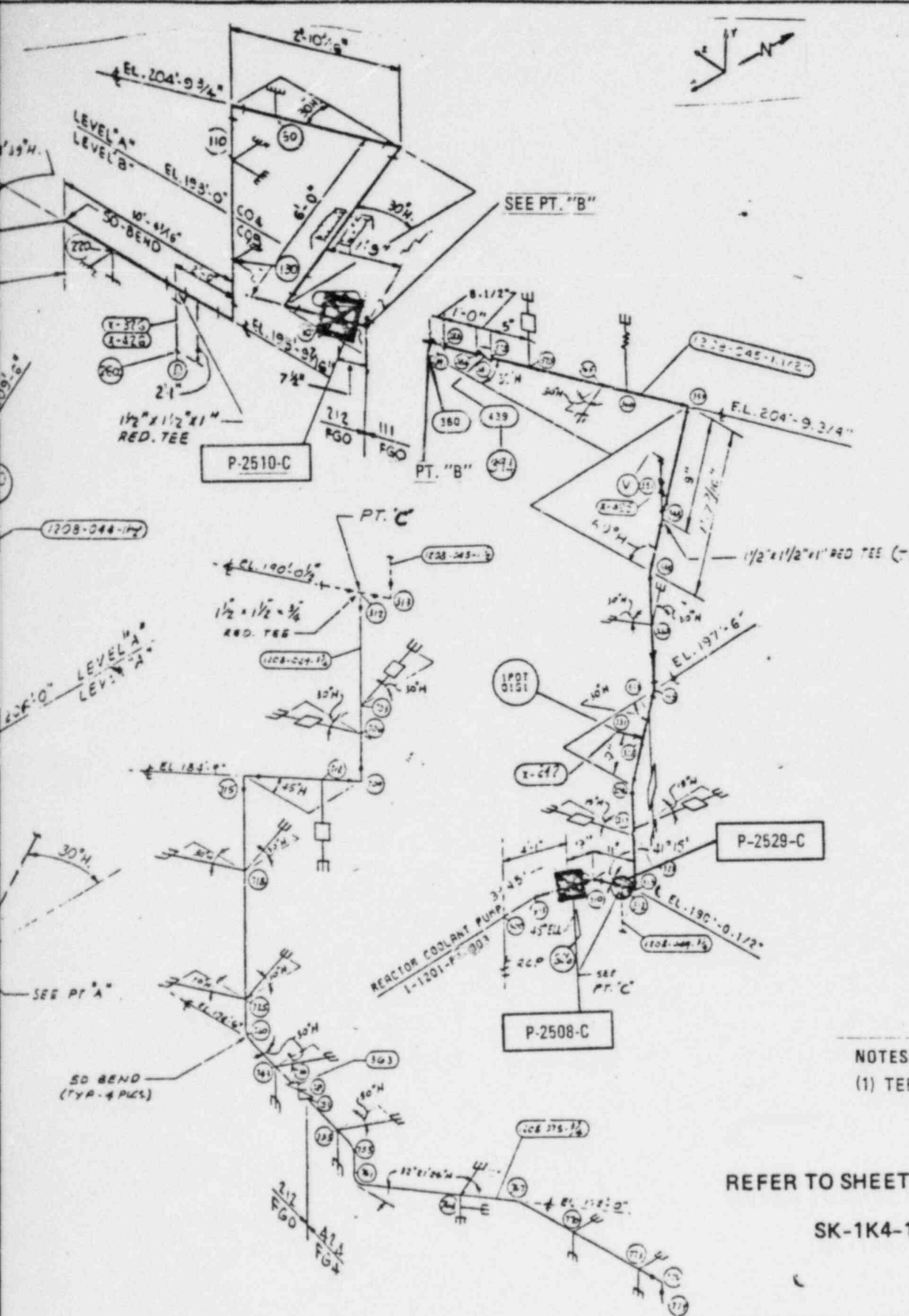
NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 S <sub>M</sub> ALLOWABLE STRESS (PSI)
306	(1)	(1)	32,880
312	21,787	40,000	32,880
10	(1)	(1)	32,880

(CLASS 1 PORTION)

NODE PT.	PRIMARY STRESS (PSI)	SECONDARY STRESS (PSI)	TOTAL STRESS (PSI)	PIPE BREAK STRESS LIMIT (PSI)
10	(1)	(1)	(1)	33,912
1030	(1)	(1)	(1)	33,912

(CLASS 2 PORTION)





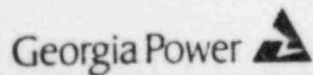
**TI  
APERTURE  
CARD**

Also Available On  
NOTES: **Aperture Card**  
(1) TERMINAL END BREAK

REFER TO SHEET 1 FOR LEGEND

SK-1K4-1208-045-02, REV. 1

Amend. 9 8/84  
Amend. 22 2/86

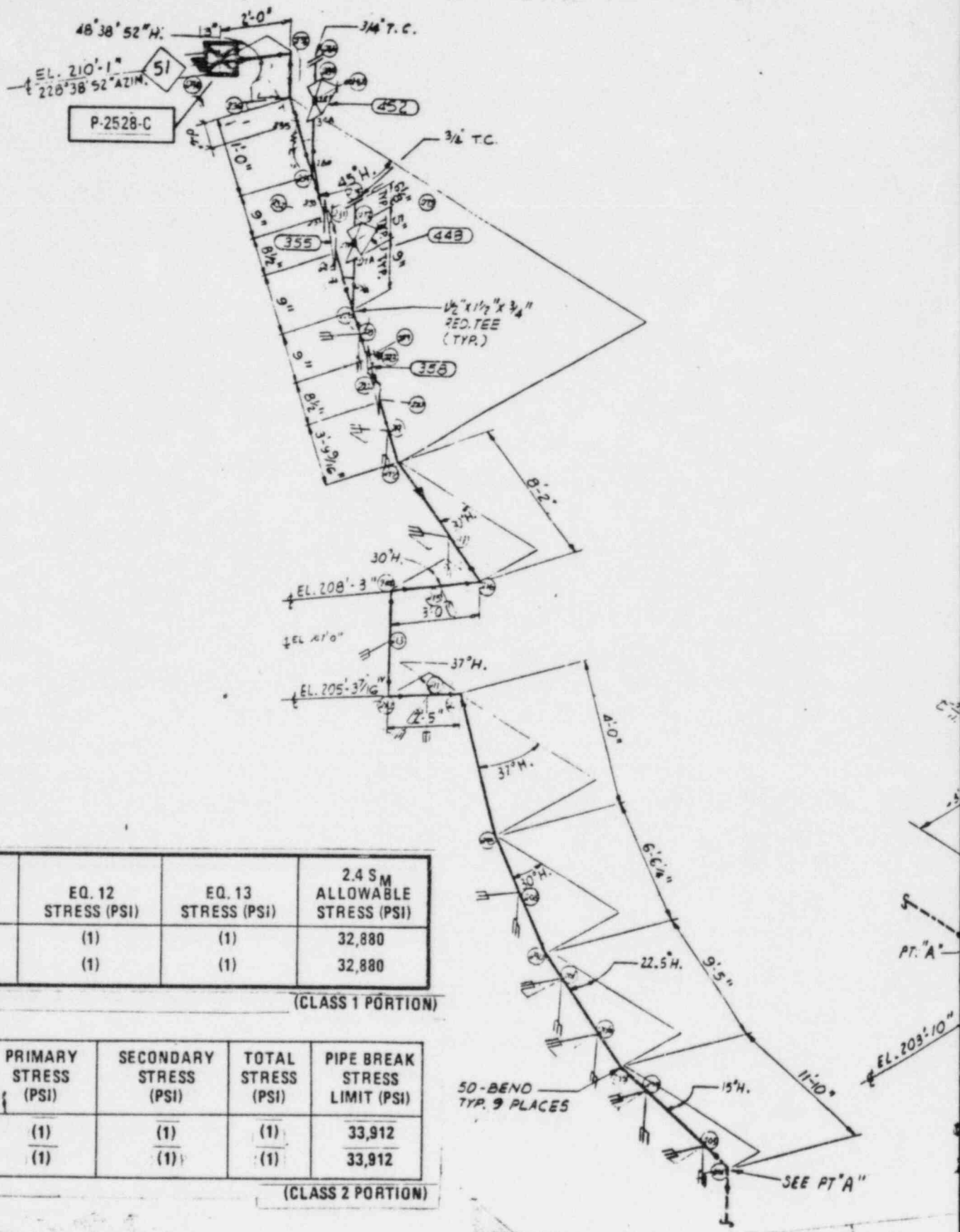


VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

CHEMICAL AND VOLUME CONTROL SYSTEM  
CONTAINMENT BUILDING AREA  
4C, 4D, LEVEL A, B, C

FIGURE 3.6.1-1 (SHEET 197 OF 222)

8608210201-51



NODE PT	EQ. 12 STRESS (PSI)	EQ. 13 STRESS (PSI)	2.4 SM ALLOWABLE STRESS (PSI)
5	(1)	(1)	32,880
175	(1)	(1)	32,880

(CLASS 1 PORTION)

NODE POINT	PRIMARY STRESS (PSI)	SECONDARY STRESS (PSI)	TOTAL STRESS (PSI)	PIPE BREAK STRESS LIMIT (PSI)
175	(1)	(1)	(1)	33,912
240	(1)	(1)	(1)	33,912

(CLASS 2 PORTION)

