Total Pages 381

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
(Name and Address of Owner)

2. Plant Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
(Name and Address of Plant)

3. Plant Unit No. 2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 11/3/75 6. National Board Number for Unit No. 2 N83902 (for Reactor Pressure Vessel)

7. Components Inspected See Sections 2.0, 3.0, 4.0, 5.0, 6.0 Attached

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RPV	GE	B11-A001	NC125269	N83902
CLASS 1 PIPING	GE/Brown & Root/Kellogg	N/A	N/A	N/A
CLASS 2 PIPING	Kellogg/Brown & Root	N/A	N/A	N/A

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-1 (Back)

8. Examination Dates 3/19/90 to 1/5/92 9. Inspection Interval from 7/10/86 to 7/09/96

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Section 8.0 attached.

11. Abstract of Conditions noted See Section 7.0 attached.

12. Abstract of Corrective Measures Recommended and Taken See Section 7.0 attached.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date 3/5 19 92 Signed CP&L Owner By R E Helms for J. W. Spencer Plant General Manager

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/20/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gordon Stevens Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9/92 19 92

(12/82)

ENCLOSURE 1

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2
NRC DOCKET NO. 50-324
OPERATING LICENSE NO. DPR-62
IN-SERVICE INSPECTION REPORT

REPORT OF THE 1991/92
INSERVICE INSPECTION
AT
BRUNSWICK STEAM ELECTRIC PLANT UNIT 2
SOUTHPORT, NORTH CAROLINA 28461-0429

REPORT OF THE 1991/92 INSERVICE INSPECTION
AT
BRUNSWICK STEAM ELECTRIC PLANT UNIT 2
SOUTHPORT, NORTH CAROLINA 28461-0429

CAROLINA POWER AND LIGHT COMPANY
RALEIGH, NORTH CAROLINA

COMMERCIAL SERVICE DATE: 11/03/75

REVISION 0

Prepared By:	Michael J. Kemp	Date	2/26/92
Reviewed By:	E. M. Hansen	Date	2/27/92
Recommended By:	[illegible]	Date	2/28/92
Approved By:	[illegible] R. [illegible]	Date	3/5/92

CAROLINA POWER AND LIGHT COMPANY, POB 1551, RALEIGH, NC 27602
BRUNSWICK STEAM ELECTRIC PLANT, POB 10429, SOUTHPORT, NC 28461
UNIT 2, COMMERCIAL SERVICE DATE 11/03/75, NB#3902(RPV)

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SECTION 1.0

INTRODUCTION

CAROLINA POWER AND LIGHT COMPANY, POB 1551, RALEIGH, NC 27602
BRUNSWICK STEAM ELECTRIC PLANT, POB 10429, SOUTHPORT, NC 28461
UNIT 2, COMMERCIAL SERVICE DATE 11/03/75, NB#3902(RPV)

1.0 INTRODUCTION

1.1 This report represents a summary of the Inservice Inspection (ISI) activities performed at the Carolina Power and Light Company's Brunswick Steam Electric Plant (BSEP) Unit 2 through the ninth regularly scheduled refueling outage in Program B.

1.2 BSEP Unit 2 - PROGRAM B (IWA 2420): Outage Code 2-2-09 (B210R1)

1.2.1 Second Inspection Interval (7/10/86 - 7/09/96)

1.2.2 Second Inspection Period (11/10/89 - 3/9/93)

1.2.3 Ninth Refueling Outage (9/11/91 - 1/5/92)

1.3 Examinations were performed to satisfy the requirements (or portions thereof) of the following documents:

1.3.1 American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (Division I), Inspection Program B, Edition 1980 through the Winter 1981 addenda (81W-02), with Code Case N-408 applied for Class 2 piping welds.

1.3.2 NUREG 0313, Revision 2

1.3.3 NRC Generic Letter 88-01

1.3.4 NUREG 0619

1.3.5 NUREG 0737

1.3.6 Inspection and Enforcement Bulletin 80-13 (IEB 80-13)

1.3.7 Inspection and Enforcement Notice 84-41 (IEN 84-41)

1.3.8 Vendor Recommendations

1.3.9 BSEP Technical Specifications

1.4 The following lists the general examination methods utilized to perform examinations on components in accordance with the requirements of the documents referenced above.

REQUIREMENT	DESCRIPTION	EXAM METHOD
81W-02	-Pressure Vessels (B-A,C-B) -Pressure retaining piping welds (B-F,B-J C-F-2) -Integral attachments for piping, pumps, and valves (B-K-1,C-C) -Pressure retaining bolting less than or equal to 2" diameter (B-G-1) -RPV skirt weld (B-H)	Surface, and/or Manual Volumetric
81W-02	-Pressure retaining piping welds (B-F,B-J)	Automated Volumetric
81W-02	-Pressure retaining bolting less than 2" diameter (B-G-2) -Pressure boundary component supports (F-A,F-B,F-C) -Valve internal surfaces (B-M-2) -Reactor vessel interior (B-N-1)	Visual
NUREG 0313 AND GENERIC LETTER 88-01	-Pressure retaining piping welds (B-F,B-J) -Pressure retaining piping welds (nonclassed)	Automated /Manual Volumetric
NUREG 0737	-Standby Gas Treatment System	Helium Leak Detection
NUREG 0619	-Feedwater nozzle inner radii/ safe ends	Manual Volumetric /Surface

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REQUIREMENT	DESCRIPTION	EXAM METHOD
IEB 80-13	-Core Spray piping and spargers	Visual
VENDOR RECOMM.	-Jet Pump Holddown Beams.....	Remote Volumetric
	-RPV Shroud Access Covers	
	-RCR Inconel buttered welds	
	-RPV studs.....	Volumetric
	-RCR shop welds.....	Visual
	-RPV Steam Dryer, Shroud, and Top Guide	
BSEP TECH. SPEC.	-Safety and Nonsafety related snubbers.....	Visual
	-Sampling of Safety related snubbers.....	Functional Testing

1.5 The following lists the design temperature and pressure of the ASME Class 1 & 2 systems on which examinations were preformed.

SYSTEM ABBREV	SYSTEM	ASME CLASS	DESIGN TEMPERATURE AND PRESSURE
CRD	CONTROL ROD DRIVE	1	1750 PSIG @ 150°F
		2	1146 PSIG @ 280°F
CS	CORE SPRAY	1	1118 PSIG to 1147 PSIG @ 540°F to 562°F
		2	50 PSIG to 200 PSIG @ 120°F TO 390°F
FW	FEEDWATER	1	1326 PSIG to 1550 PSIG @ 425°F to 562°F
FW	FEEDWATER	1	1750 PSIG @ 150°F
		2	1550 PSIG @ 425°F

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SYSTEM ABBREV	SYSTEM	ASME CLASS	DESIGN TEMPERATURE AND PRESSURE
HP	HIGH PRESSURE COOLANT INJECTION	1	1118 PSIG @ 560°F
		2	50 PSIG to 1550 PSIG @ 120°F to 560°F
JPI	JET PUMP INSTRUMENTATION	1	1124 PSIG to 1150 PSIG @ 560°F to 562°F
MS	MAIN STEAM	1	1118 PSIG @ 560°F
		2	1118 PSIG @ 560°F
RCR	REACTOR RECIRCULATION LOOPS	1	1124 PSIG to 1550 PSIG @ 560°F TO 563°F
RHR	RESIDUAL HEAT REMOVAL	1	1326 PSIG to 1750 PSIG @ 150°F to 562°F
		2	50 PSIG to 460 PSIG @ 105°F to 452°F
RPV	REACTOR PRESSURE VESSEL	1	1124 PSIG to 1550 PSIG @ 560°F to 575°F
RWC	REACTOR WATER CLEANUP	1	1124 PSIG to 1550 PSIG @ 560°F to 563°F

SECTION 2.0

SUMMARY OF CLASS 1 EXAMINATIONS

CAROLINA POWER AND LIGHT COMPANY, POB 1551, RALEIGH, NC 27602
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UNIT 2, COMMERCIAL SERVICE DATE 11/03/75, NB#3902(RPV)

2.0 SUMMARY OF CLASS 1 EXAMINATIONS

2.1 ASME SECTION XI IWB CREDIT FOR INTERVAL 2, PERIOD 2, REFUEL 9

CATEGORY	ITEM NO.	SYSTEM	NOMINAL DIAMETER	DESCRIPTION
B-A	B1.21	RPV	231"	1 CIRCUMFERENTIAL (CIRC.) WELD
B-A	B1.22	RPV	231"	1 MERIDIONAL WELD
B-A	B1.40	RPV	231"	1 HEAD TO FLANGE WELD
B-F	B5.10	RCR	28"	1 NOZZLE TO SAFE END WELD
B-G-1	B6.180	RCR	3"	16 PUMP STUDS
B-G-2	B7.50	VARIOUS	VARIOUS	3 FLANGE BOLTED CONNECTIONS
B-G-2	B7.70	VARIOUS	VARIOUS	4 VALVE BOLTED CONNECTIONS
B-G-2	B7.80	CRD	5.175"	27 CRD HOUSINGS
B-H	B8.10	RPV		33% RPV SKIRT WELD
B-J	B9.11	FW	12"	1 CIRC. WELD
B-J	B9.11	RCR	VARIOUS	4 CIRC. WELDS *
B-J	B9.11	RHR	24"	1 CIRC. WELD
B-J	B9.11	CS	10"	3 CIRC. WELDS
B-J	B9.11	HP	10"	2 CIRC. WELDS
B-J	B9.11	MS	24"	5 CIRC. WELDS **
B-J	B9.31	RCR	28"	1 BRANCH CONNECTION WELD
B-J	B9.40	VARIOUS	VARIOUS	2 SOCKET WELDS

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CATEGORY	ITEM NO.	SYSTEM	NOMINAL DIAMETER	DESCRIPTION
B-K-1	B10.10	RCR	NA	4 PIPING INTEGRAL ATTACHMENTS
B-K-1	B10.20	RCR	NA	2 PUMP INTEGRAL ATTACHMENTS
B-M-2	B12.50	MS	VARIOUS	7 VALVE INTERNALS
B-N-1	B13.10	RPV	231"	ACCESSIBLE AREAS

* Includes 12" of Longseams associated with 2 welds (item no. B9.12)

** Includes 12" of Longseams associated with 1 weld (item no. B9.12)

2.2 Preservice - PSI-02

CATEGORY	ITEM NO.	SYSTEM	NOMINAL DIAMETER	DESCRIPTION
B-G-2	B7.80	CRD	5.175"	57 CRD HOUSING BOLTS
B-J	B9.11	VARIOUS	VARIOUS	10 CIRC. WELDS
B-J	B9.40	RWC	VARIOUS	10 CIRC. WELDS
B-M-2	B12.50	VARIOUS	NA	6 VALVE INTERNALS
B-N-1	B13.10	RPV	231"	1 REPAIR BRACKET WELD

2.3 NUREG 0313 EXAMINATIONS (ASME SECTION XI CLASS 1 ONLY)

CATEGORY	ITEM NO.	SYSTEM	NOMINAL DIAMETER	DESCRIPTION
0313-A	NA	RCR	4"	1 CIRC. WELD
0313-A	NA	RWC	4"	3 CIRC. WELDS
0313-B	NA	RCR	12"	1 SWEEPOLET WELD
0313-C	NA	JPI	4"	1 NOZZLE-SAFE END WELD
0313-C	NA	CS	15.75"	1 NOZZLE-SAFE END WELD
0313-C	NA	RCR	28"	6 CIRC. WELDS
0313-C	NA	RCR	22"	1 CIRC. WELD
0313-D	NA	RWC	4"	1 DISSIMILAR CIRC. WELD
0313-D	NA	RCR	28"	3 CIRC. WELDS
0313-D	NA	JPI	4"	1 CIRC. WELD
0313-D	NA	RWC	4"	1 CIRC. WELD
0313-E	NA	RCR	29.87"	2 NOZZLE-SAFE END WELDS
0313-E	NA	RCR	28"	4 CIRC. WELDS
0313-E	NA	RCR	4"	2 CIRC. WELDS
0313-E	NA	RCR	22"	1 CIRC. WELD
0313-F	NA	RCR	22"	1 CIRC. WELD

SECTION 3.O

SUMMARY OF CLASS 2 EXAMINATIONS

3.0 SUMMARY OF CLASS 2 EXAMINATIONS

3.1 ASME SECTION XI - IWC CREDIT INTERVAL 2, PERIOD 2, REFUEL 9

CATEGORY	ITEM NO.	SYSTEM	NOMINAL DIAMETER	DESCRIPTION
C-B	C2.21	RHR	20"	1 NOZZLE-SHELL WELD
C-B	C2.22	RHR	20"	1 NOZZLE INNER RADIUS
C-C	C3.10	RHR	NA	2 VESSEL INTEGRAL ATTACHMENTS
C-C	C3.20	VARIOUS	VARIOUS	3 PIPING INTEGRAL ATTACHMENTS
C-D	C4.30	HP	3"	4 PUMP BOLTS
C-F-2	C5.51	VARIOUS	VARIOUS	15 CIRC. WELDS

3.2 ASME SECTION XI IWC-PRESERVICE EXAMINATIONS

CATEGORY	ITEM NO.	SYSTEM	NOMINAL DIAMETER	DESCRIPTION
C-F-2	C5.51	HP	10"	4 CIRC. WELDS

SECTION 4.0

SUMMARY OF SUPPORT EXAMINATIONS

4.0 SUMMARY OF COMPONENT SUPPORT EXAMINATIONS

4.1 ASME Section XI Support Examinations (IWF-Credit)

4.1.1 VT-3 and/or VT-4 examinations performed on various systems and component supports.

CLASS	SUPPORTS	SNUBBERS
1	20	Snubbers are no longer tracked under ASME Section XI period minimum and maximum requirements. Technical Specification visual examination frequencies exceed those required under ASME Section XI.
2	45	
3	54	
TOTAL	119	

4.1.2 Functional testing for ASME Section XI IWF-5000 is satisfied by BSEP's plant Technical Specification required testing. BSEP's Technical Specification testing frequency exceeds the frequency required under ASME Section XI IWF-5000.

4.2 Technical Specification Examinations

4.2.1 VT-3 and VT-4 examinations were performed on Technical Specification snubbers for 3/4.7.5 credit:

Safety Related Snubbers Examined - 308
Non-Safety Related Snubbers Examined - 55

4.2.2 Fifty-five safety related Technical Specification snubbers were selected randomly and functionally tested with satisfactory results.

4.2.3 Five non-safety related/ISI classed snubbers were selected randomly per ASME Section XI IWF- 5400 and functionally tested with satisfactory results.

4.2.4 Thirty-seven Technical Specification snubbers were functionally tested to determine operability as the result of visual examination and/or system walkdowns.

4.2.5 One hundred and eleven Technical Specification snubbers were selected for seal life changeout.

4.3 Preservice Examinations

Preservice examinations were performed for Technical Specification snubbers and ASME Section XI supports that were modified, replaced, added, and/or repaired.

4.4 Examination Disposition/Corrective Action

4.4.1 The following is a listing of indications found during examination:

- Loose Locking Devices/Parts
- Missing/Leaking Fluid (Snubbers only)
- Hot/Cold Setting Adjustments Required
- Misalignment
- Mechanical Interferences
- Rust, Paint, Debris, etc.
- Missing ID Tags
- Bound Spherical Bearings

4.4.2 Conditions listed above were evaluated and/or corrected in accordance with plant procedures prior to and returning them to service. No indications adversely affecting support or system operability were found. For this reason, no sample expansions were required.

SECTION 5.0

SUMMARY OF PRESSURE TESTING
INTERVAL 2 - PERIOD 2

5.0 SUMMARY OF PRESSURE TESTING

5.1 SUMMARY OF CLASS 1 PRESSURE TESTING

PROCEDURE	TEST TYPE	TEST DATE	DESCRIPTION/SYSTEM
PT-80.1	HYDRO-STATIC	12/11/91	REACTOR COOLANT PRESSURE BOUNDARY
PT-80.2	LEAKAGE	12/22/91	REACTOR COOLANT PRESSURE BOUNDARY

5.2 SUMMARY OF CLASS 2 PRESSURE TESTING

PROCEDURE	TEST TYPE	TEST DATE	DESCRIPTION/SYSTEM
PT-03.1.24	FUNCTIONAL	12/06/91	REACTOR RECIRCULATION
PT-06.2.4	FUNCTIONAL	06/20/91	STANDBY LIQUID CONTROL
PT-08.3A	FUNCTIONAL	11/23/91	RESIDUAL HEAT REMOVAL A LOOP
PT-08.3B	FUNCTIONAL	11/27/91	RESIDUAL HEAT REMOVAL B LOOP
PT-09.2	FUNCTIONAL	05/16/91	HIGH PRESSURE INJECTION
PT-14.1.1B	FUNCTIONAL	05/17/91	CONTROL ROD DRIVE
PT-14.1.2	FUNCTIONAL	09/12/91	SCRAM DISCHARGE VOLUME
PT-15.1.3	PNEUMATIC	10/17/91	STANDBY GAS TREATMENT (SBGT) HELIUM LEAK TEST
PT-16.1.5	PNEUMATIC	12/22/91	CONTAINMENT ATMOSPHERE DILUTION
PT-20.0.1	INSERVICE	04/10/91	TORUS DRAIN
PT-22.2.3	INSERVICE	11/16/91	REACTOR BUILDING CLOSED COOLING WATER
PT-25.1.3	INSERVICE	12/22/91	MAIN STEAM

5.2 CLASS 2 (CONT.)

PROCEDURE	TEST TYPE	TEST DATE	DESCRIPTION/SYSTEM
PT-25.5.2	INSERVICE	12/22/91	FEEDWATER
PT-31.7	PNEUMATIC	10/14/91	SERVICE AIR

5.3 SUMMARY OF CLASS 3 PRESSURE TESTING

PROCEDURE	TEST TYPE	TEST DATE	DESCRIPTION/SYSTEM
PT-10.1.1	FUNCTIONAL	05/22/91	REACTOR CORE ISOLATION COOLING
PT-24.6.3	INSERVICE	11/07/91	FUEL POOL COOLING ASSIST

SECTION 6.0

SUMMARY OF AUGMENTED EXAMINATIONS

6.0 SUMMARY OF AUGMENTED EXAMINATIONS

COMPONENT(S)	REQUIREMENT	DESCRIPTION
Non-ASME Section XI piping (nonclassed)	NUREG 0313	3-4" RWCU piping welds
Feedwater System	NUREG 0619	4 nozzle inner radii 4 safe ends 4 spargers
SBGT System	NUREG 0737	Helium leak detection test
Core Spray System (piping and spargers)	IEB 80-13	Accessible surfaces-remote visual exam during invessel exams
Jet Pump Beams	Vendor Recommendation (GE SIL-330)	20 jet pump hold-down beams examined by Ultrasonic Testing (UT)
Shroud Access Covers (RPV)	Vendor Recommendation (GE SIL-462)	1 cover-partial UT
RCR System (inconel buttered welds)	Vendor Recommendation (GE SIL-455)	2 RCR welds-UT
RCR System (shop welds)	Vendor Recommendation (GE RICSIL-058)	2 RCR welds-UT
RPV studs	Vendor Recommendation (GE RICSIL-055)	5 RPV studs-UT
RPV steam dryer	Vendor Recommendation (GE SIL-474)	Indications previously identified during last outage invessel exams

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COMPONENT(S)	REQUIREMENT	DESCRIPTION
RPV top guide	Vendor Recommendation (GE RICSIL-059)	Accessible surfaces-remote visual exam during invessel exams
RPV shroud	Vendor Recommendation (GE RICSIL-054)	Accessible surfaces-remote visual exam during invessel exams

SECTION 7.0

ABSTRACT OF CONDITIONS NOTED AND CORRECTIVE ACTIONS TAKEN

7.0 ABSTRACT OF CONDITIONS NOTED

7.1 Class 1

COMPONENT ID	CONDITIONS NOTED	DISPOSITION/ CORRECTIVE ACTION
Feedwater Spargers (@ 45, 135, 225, & 315 degrees)	Multiple linear indications (VT-3, Penetrant Testing [PT], UT)	Flowhole cracking present on each sparger. Linear indications identified with VT-3, PT, & UT on circumferential welds and VT-3 & PT on flow holes. Indications evaluated by General Electric (GE) GE-NE-523-112-1191 for continued operation without repair for an additional refuel cycle. Previously reported linear indication on the tack weld on the 225 degree Sparger baring bar. Essentially no new growth was identified. CP&L Nuclear Engineering Department (NED) evaluation for continued use without repair.
Steam Dryer (Invessel)	Multiple linear indications (VT-3)	Previously reported linear indications during the 1988 & 1989 outages on bank 3, weld V-2. Essentially no new growth was identified. GE evaluation for continued operation without repair. Previously reported linear indication on bank 4 at weld H1 & V7 was repaired this outage.
Core Spray piping (Invessel)	Linear indications (VT-3)	Previously reported linear indication from the 1988 outage on a Core Spray Loop A piping weld at the T-Box. Repaired by welding a bracket across the indication this refueling outage.

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COMPONENT ID	CONDITIONS NOTED	DISPOSITION/ CORRECTIVE ACTION
2B32RECIRC-22-A-M-1	Pre-existing IGSCC (UT)	One non-geometric IGSCC planar indication (circ.) was detected with a 45 degree shear wave search unit. There has been no apparent growth of the IGSCC indication from the last examination. *
2B32RECIRC-28-A-1	Pre-existing IGSCC (UT)	One non-geometric IGSCC planar indication (axial) was detected with a 45 degree & 60 degree refracted longitudinal (RL) search units. There has been no apparent growth of the IGSCC indication from the last examination. *
2B32RECIRC-28-A-4	Pre-existing IGSCC (UT)	One non-geometric IGSCC planar indication (axial) was detected with the 60 degree RL & outside diameter (OD) creeping wave search units. There has been no apparent growth of the IGSCC indication from the last examination. *
2B32RECIRC-28-B-1	Pre-existing IGSCC (UT)	Two non-geometric IGSCC planar indications (axial) indications were detected with 45 degree RL & 60 degree RL search units. There has been no apparent growth of the IGSCC indications from the last examination. *
2B32RECIRC-28-B-7	Pre-existing IGSCC (UT)	Fourteen non-geometric IGSCC planar indications (12 axial, 1 circumferential, & 1 interbead lack of fusion) were detected using 60 degree RL and OD creeping wave search units. There has been no apparent growth of the IGSCC from the last examination. *

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COMPONENT ID	CONDITIONS NOTED	DISPOSITION/ CORRECTIVE ACTION
2B32RECIRC-28-B-4	Pre-existing IGSCC (UT)	Two non-geometric planar IGSCC indications (axial) were detected using the 60 degree RL and the OD creeping wave search units. There has been no apparent growth of the IGSCC form the last examination. *
2B32RECIRC-28-B-5	Pre-existing IGSCC (UT)	Two non-geometric IGSCC planar indications (1 axial, 1 circumferential) were detected using a 60 degree RL search unit. There has been no apparent growth of the IGSCC from the last examination. *
2B32FF-12-FWRR13A	Pre-existing non-geometric planar (UT)	One non-geometric planar indication was detected using a 60 degree RL search unit. The indication has an amplitude of less than 100% distance amplitude correction curve (DAC) and is not reportable per ASME Section XI. There has been no apparent growth of this indication from the last examination.
CRD Housing Bolting	Corrosion / Linear (VT-1 & PT)	CRD bolting removed from CRD housings exhibited general pitting and corrosion caused by water entrapped during earlier CRD removals for maintenance. Some bolts were found to have linear indications associated with deeper pits. The worst case bolts were pull tested satisfactorily and were found to meet the acceptance standard of IWB-3514. Fifty-seven sets of CRD housing bolts were replaced.

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COMPONENT ID	CONDITIONS NOTED	DISPOSITION/ CORRECTIVE ACTION
Reactor Coolant Pressure Boundary (RCPB)	Leakage (VT-2)	Leakage from various mechanical connections (valve packing, flange connections, etc.) was identified and documented on WR/JO's (Work Request/Job Order) following RCPB pressure testing.

* IGSCC indications evaluated by CP&L, serial number NLS-91-295, for continued operation without repair for an additional refuel cycle.

7.2 Class 2 components

COMPONENT ID	CONDITIONS NOTED	DISPOSITION / CORRECTIVE ACTION
2E11HX-2A-SWN4	Pre-existing non-geometric planar (UT)	One non-geometric planar indication was detected using a 45 degree shear wave search unit. This indication has an amplitude of less than 100% DAC and is not reportable per ASME Section XI. There has been no apparent growth to this indication from previous outages.
2E11HX-2A-SUP90	Non-geometric planar linear (MT)	One non-geometric linear surface indication was detected using the magnetic particle method (MT). This indication was repaired by metal removal with no welding required. A sample expansion of 4 additional Category C-C welds revealed no reportable indications.
Class 2 Systems (see section 5.2 above)	Leakage (VT-2)	Leakage from various mechanical connections (valve packing, flange connections, etc.) was identified and documented on WR/JO following functional/inservice testing. (Leakage for pneumatic testing is detected by soap bubble solution with the exception of Helium leak detection addressed below). One through-wall leak found during the performance of PT-08.3A was repaired per WR/JO.
Standby Gas Treatment System	Leakage (Helium detection)	Leakage from valve packing was identified by detection of helium gas. Leakage was documented on WR/JO following pressure test.

SECTION 8.0

PROGRAM STATUS
ASME XI CREDIT - IWB, IWC, IWD, IWF

8.1 PROGRAM STATUS FOR IWB, IWC, AND IWD - ASME XI

(EXCLUDES PRESSURE TESTING)

INTERVAL 2, PERIOD 2

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.11 RV CIRCUMFERENTIAL SHELL WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	4	2	0	0.0	0	0.0	0.0	67.0
TOTAL	4	2	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.12 RV LONGITUDINAL SHELL WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	8	2	0	0.0	0	0.0	0.0	67.0
TOTAL	8	2	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.21B RV CIRCUMFERENTIAL BOTTOM HEAD WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	1	0	0.0	0	0.0	0.0	67.0
TOTAL	1	1	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.21T RV CIRCUMFERENTIAL TOP HEAD WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	3	3	2	66.7	0	66.7	50.0	67.0
TOTAL	3	3	2	66.7	0	66.7	50.0	67.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.22B RV MERIDIONAL BOTTOM HEAD WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	8	1	0	0.0	0	0.0	0.0	67.0
TOTAL	8	1	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.22T RV MERIDIONAL TOP HEAD WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	6	2	2	100.0	0	100.0	100.0	100.0
TOTAL	6	2	2	100.0	0	100.0	100.0	100.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.30D RV SHELL-TO-FLANGE WELD TESTING IN CONJUNCTION WITH CAT B-D

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	2	2	1	50.0	0	50.0	50.0	67.0
TOTAL	2	2	1	50.0	0	50.0	50.0	67.0

CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
ITEM NO : B1.40 RV HEAD-TO-FLANGE WELD

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	3	3	2	66.7	0	66.7	50.0	67.0
TOTAL	3	3	2	66.7	0	66.7	50.0	67.0

CATEGORY : B-OB FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
ITEM NO : B3. 90 RV NOZZLE-TO-VESSEL WELDS - PROGRAM B

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	35	35	10	28.6	0	28.6	25.0	67.0
TOTAL	35	35	10	28.6	0	28.6	25.0	67.0

CATEGORY : B-DB FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
ITEM NO : B3.100 RV NOZZLE INSIDE RADIUS SECTION - PROGRAM B

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	35	35	10	28.6	0	28.6	25.0	67.0
TOTAL	35	35	10	28.6	0	28.6	25.0	67.0

CATEGORY : B-E PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
ITEM NO : B4.11 VESSEL NOZZLE PARTIAL PENETRATION WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	3	1	33.3	1	66.7	50.0	67.0
TOTAL	1	3	1	33.3	1	66.7	50.0	67.0

NUTECH

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING

INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 2
ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY

CATEGORY : B-E PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
ITEM NO : B4.12 CONTROL ROD DRIVE NOZZLE PARTIAL PENETRATION WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	274	822	274	33.3	274	66.7	50.0	67.0
TOTAL	274	822	274	33.3	274	66.7	50.0	67.0

CATEGORY : B-E PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
ITEM NO : B4.13 INSTRUMENTATION NOZZLE PARTIAL PENETRATION WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	43	129	43	33.3	43	66.7	50.0	67.0
TOTAL	43	129	43	33.3	43	66.7	50.0	67.0

CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS
ITEM NO. : B5. 10 RV NOZZLE-TO-SAFE END BUTT WELDS, NPS >= 4 INCHES

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	0	0.0	2	100.0	50.0	67.0
JPI	2	2	1	50.0	0	50.0	50.0	67.0
RCR	12	12	2	16.7	4	50.0	50.0	67.0
TOTAL	16	16	3	18.8	6	56.3	50.0	67.0

CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS
ITEM NO : B5. 20 RV NOZZLE-TO-SAFE END BUTT WELDS, NPS < 4 INCHES

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CRD	1	1	0	0.0	0	0.0	25.0	67.0
RPV	6	6	2	33.3	0	33.3	25.0	67.0
SLC	1	1	1	100.0	0	100.0	25.0	67.0
TOTAL	8	8	3	37.5	0	37.5	25.0	67.0

CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS
ITEM NO : B5.130 NOMINAL PIPE SIZE >= 4 IN. DISSIMILAR METAL PIPING BUTT WELD

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	0	0.0	2	100.0	50.0	67.0
RHR	3	3	1	33.3	1	66.7	50.0	67.0
RWC	1	1	0	0.0	0	0.0	50.0	67.0
TOTAL	6	6	1	16.7	3	66.7	50.0	67.0

CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS
ITEM NO : B5.150 DISSIMILAR METAL PIPING SOCKET WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RWC	1	0	0	0.0	0	0.0	0.0	100.0
TOTAL	1	0	0	-----	0	-----	0.0	100.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6. 10 RV CLOSURE HEAD NUTS (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	64	0	0.0	0	0.0	0.0	67.0
TOTAL	64	64	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6. 20 RV CLOSURE STUDS, IN PLACE (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	-----	0	-----	0	-----	0.0	67.0
TOTAL	64	59	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6. 30 RV CLOSURE STUDS, WHEN REMOVED (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	-----	0	-----	0	-----	0.0	67.0
TOTAL	64	5	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6. 40 RV THREADS IN FLANGE (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	64	0	0.0	0	0.0	0.0	67.0
TOTAL	64	64	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6. 50 RV CLOSURE WASHERS, BUSHINGS (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	128	128	0	0.0	0	0.0	0.0	67.0
TOTAL	128	128	0	0.0	0	0.0	0.0	67.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6.180 PUMP BOLTS AND STUDS (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	32	32	16	50.0	0	50.0	0.0	67.0
TOTAL	32	32	16	50.0	0	50.0	0.0	67.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6.190 PUMP FLANGE SURFACE WHEN CONNECTION DISASSEMBLED (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	2	-----	0	-----	0	-----	0.0	100.0
TOTAL	2	0	0	-----	0	-----	0.0	100.0

CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : B6.200 PUMP NUTS, BUSHINGS, AND WASHERS (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	4	4	0	0.0	2	50.0	0.0	67.0
TOTAL	4	4	0	0.0	2	50.0	0.0	67.0

CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER
ITEM NO : B15.EX EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	6	0	0	0.0	0	0.0	0.0	100.0
FW	4	0	0	0.0	0	0.0	0.0	100.0
HP	3	0	0	0.0	0	0.0	0.0	100.0
MS	3	0	0	0.0	0	0.0	0.0	100.0
RCI	1	0	0	0.0	0	0.0	0.0	100.0
RCR	6	0	0	0.0	0	0.0	0.0	100.0
RHR	9	0	0	0.0	0	0.0	0.0	100.0
RWC	5	0	0	0.0	0	0.0	0.0	100.0
SLC	2	0	0	0.0	0	0.0	0.0	100.0
TOTAL	39	0	0	-----	0	-----	0.0	100.0

CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER
ITEM NO : B7.10 REACTOR VESSEL BOLTS, STUDS, AND NUTS (<= 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	1	1	100.0	0	100.0	0.0	100.0
TOTAL	1	1	1	100.0	0	100.0	0.0	100.0

CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER
ITEM NO : B7.50 PIPING BOLTS, STUDS, AND NUTS (<= 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
MS	15	15	4	26.7	4	53.3	50.0	67.0
RCR	4	4	2	50.0	1	75.0	50.0	67.0
RHR	1	1	1	100.0	0	100.0	50.0	67.0
TOTAL	20	20	7	35.0	5	60.0	50.0	67.0

CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER
ITEM NO : B7.70 VALVE BOLTS, STUDS, AND NUTS (<= 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	1	50.0	1	100.0	50.0	67.0
FW	2	2	2	100.0	0	100.0	50.0	67.0
HP	1	1	0	0.0	0	0.0	50.0	67.0
MS	21	21	7	33.3	6	61.9	50.0	67.0
RCI	3	3	2	66.7	0	66.7	50.0	67.0
RCR	10	10	4	40.0	1	50.0	50.0	67.0
RHR	2	2	0	0.0	0	0.0	50.0	67.0
RWC	1	1	0	0.0	0	0.0	50.0	67.0
SLC	1	1	1	100.0	0	100.0	50.0	67.0
TOTAL	43	43	17	39.5	8	58.1	50.0	67.0

CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER
ITEM NO : B7.80 CRD HOUSING BOLTS, STUDS, AND NUTS (<= 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CRD	121	-----	70	-----	0	-----	50.0	67.0
TOTAL	121	137	70	51.1	0	51.1	50.0	67.0

CATEGORY : B-H INTEGRAL ATTACHMENTS FOR VESSELS
ITEM NO : B8.10 RV INTEGRALLY WELDED ATTACHMENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	7	7	3	42.9	1	57.1	50.0	67.0
TOTAL	7	7	3	42.9	1	57.1	50.0	67.0

CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
ITEM NO : B15.E5 EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
MS	141	0	0	0.0	0	0.0	0.0	100.0
RCI	1	0	0	0.0	0	0.0	0.0	100.0
RCR	5	0	0	0.0	0	0.0	0.0	100.0
TOTAL	147	0	0	-----	0	-----	0.0	100.0

CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
ITEM NO : B9.11 CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	49	-----	7	-----	1	-----	50.0	67.0
FW	65	-----	7	-----	5	-----	50.0	67.0
HP	33	-----	4	-----	1	-----	50.0	67.0
JPI	2	-----	0	-----	0	-----	50.0	67.0
MS	101	-----	14	-----	2	-----	50.0	67.0
RCI	13	-----	0	-----	0	-----	50.0	67.0
RCR	92	-----	9	-----	5	-----	50.0	67.0
RHR	43	-----	4	-----	5	-----	50.0	67.0
RPV	5	-----	0	-----	0	-----	50.0	67.0
RWC	23	-----	2	-----	2	-----	50.0	67.0
TOTAL	426	108	47	43.5	21	63.0	50.0	67.0

CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
ITEM NO : B9.21 CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
MS	12	-----	1	-----	0	-----	50.0	67.0
RCI	25	-----	2	-----	2	-----	50.0	67.0
SLC	3	-----	0	-----	0	-----	50.0	67.0
TOTAL	40	10	3	30.0	2	50.0	50.0	67.0

CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
ITEM NO : B9.31 BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE >= 4 IN.

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
FW	1	-----	0	-----	0	-----	50.0	67.0
MS	14	-----	1	-----	1	-----	50.0	67.0
RCR	14	-----	2	-----	0	-----	50.0	67.0
RHR	1	-----	0	-----	0	-----	50.0	67.0
TOTAL	30	7	3	42.9	1	57.1	50.0	67.0

CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
ITEM NO : B9.32 BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE < 4 IN.

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
MS	1	-----	0	-----	0	-----	0.0	100.0
RCR	2	-----	0	-----	0	-----	0.0	100.0
RWC	1	-----	0	-----	0	-----	0.0	100.0
TOTAL	4	1	0	0.0	0	0.0	0.0	100.0

CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
ITEM NO : B9.40 PIPE SOCKET WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	62	-----	5	-----	7	-----	50.0	67.0
RPV	65	-----	5	-----	4	-----	50.0	67.0
RWC	12	-----	4	-----	1	-----	50.0	67.0
SLC	31	-----	2	-----	2	-----	50.0	67.0
TOTAL	170	45	16	35.6	14	66.7	50.0	67.0

CATEGORY : B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
ITEM NO : B10.10 PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	0	0.0	1	50.0	50.0	67.0
FW	5	5	2	40.0	1	60.0	50.0	67.0
HP	2	2	1	50.0	1	100.0	50.0	67.0
MS	4	4	1	25.0	0	25.0	50.0	67.0
RCI	1	1	1	100.0	0	100.0	50.0	67.0
RCR	16	16	9	56.3	1	62.5	50.0	67.0
RWC	1	1	0	0.0	0	0.0	50.0	67.0
SLC	1	1	0	0.0	0	0.0	50.0	67.0
TOTAL	32	32	14	43.8	4	56.3	50.0	67.0

CATEGORY : B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
ITEM NO : B10.20 PUMP IN GRALLY WELDED ATTACHMENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	6	6	4	66.7	0	66.7	50.0	67.0
TOTAL	6	6	4	66.7	0	66.7	50.0	67.0

CATEGORY : B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
ITEM NO : B15.EX EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	4	0	0	0.0	0	0.0	0.0	100.0
FW	11	0	0	0.0	0	0.0	0.0	100.0
HP	2	0	0	0.0	0	0.0	0.0	100.0
MS	12	0	0	0.0	0	0.0	0.0	100.0
RCI	2	0	0	0.0	0	0.0	0.0	100.0
RHR	8	0	0	0.0	0	0.0	0.0	100.0
TOTAL	39	0	0	-----	0	-----	0.0	100.0

CATEGORY : B-L-2 PUMP CASINGS
ITEM NO : B12.20 PUMP CASING

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	2	-----	0	-----	0	-----	0.0	100.0
TOTAL	2	0	0	-----	0	-----	0.0	100.0

CATEGORY : B-M-2 VALVE BODIES
ITEM NO : B12.50 VALVE BODY, EXCEEDING 4 IN. NOMINAL PIPE SIZE

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	8	-----	2	-----	0	-----	100.0	100.0
FW	6	-----	4	-----	0	-----	100.0	100.0
HP	4	-----	2	-----	0	-----	100.0	100.0
MS	19	-----	10	-----	0	-----	100.0	100.0
RCR	6	-----	4	-----	0	-----	100.0	100.0
RHR	11	-----	4	-----	0	-----	100.0	100.0
RWC	3	-----	0	-----	0	-----	100.0	100.0
TOTAL	57	26	26	100.0	0	100.0	100.0	100.0

CATEGORY : B-N-1 INTERIOR OF REACTOR VESSEL
ITEM NO : B13.10 RV VESSEL INTERIOR

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	6	3	50.0	1	66.7	66.6	67.0
TOTAL	1	6	3	50.0	1	66.7	66.6	67.0

CATEGORY : B-N-2 RV INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR)
ITEM NO : B13.20 RV INTERIOR ATTACHMENTS WITHIN BELTLINE REGION (BWR)

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	1	0	0.0	0	0.0	0.0	100.0
TOTAL	1	1	0	0.0	0	0.0	0.0	100.0

CATEGORY : B-N-2 RV INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR)
ITEM NO : B13.21 RV INTERIOR ATTACHMENTS BEYOND BELTLINE REGION (BWR)

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	1	0	0.0	0	0.0	0.0	100.0
TOTAL	1	1	0	0.0	0	0.0	0.0	100.0

CATEGORY : B-N-2 RV INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR)
ITEM NO : B13.22 RV CORE SUPPORT STRUCTURE (BWR)

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	1	0	0.0	0	0.0	0.0	100.0
TOTAL	1	1	0	0.0	0	0.0	0.0	100.0

CATEGORY : B-O PRESSURE RETAINING WELDS IN CONTROL ROD HOUSING
ITEM NO : B14.10 RV WELDS IN PERIPHERAL CRD HOUSING

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	72	-----	2	-----	2	-----	0.0	67.0
TOTAL	72	7	2	28.6	2	57.1	0.0	67.0

CATEGORY : B-O PRESSURE RETAINING WELDS IN CONTROL ROD HOUSING
ITEM NO : B15.EX EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	202	0	0	0.0	0	0.0	0.0	100.0
TOTAL	202	0	0	-----	0	-----	0.0	100.0

CATEGORY : C-A PRESSURE RETAINING WELDS IN PRESSURE VESSELS
ITEM NO : C1.10 PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	4	2	1	50.0	0	50.0	50.0	100.0
TOTAL	4	2	1	50.0	0	50.0	50.0	100.0

CATEGORY : C-A PRESSURE RETAINING WELDS IN PRESSURE VESSELS
ITEM NO : C1.20 PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	2	1	0	0.0	1	100.0	0.0	100.0
TOTAL	2	1	0	0.0	1	100.0	0.0	100.0

CATEGORY : C-B PRESSURE RETAINING NOZZLE WELDS IN VESSELS
ITEM NO : C2.21 NOZZLE-TO-SHELL(OR HEAD) WELD

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RP	4	2	2	100.0	0	100.0	50.0	100.0
TOTAL	4	2	2	100.0	0	100.0	50.0	100.0

CATEGORY : C-B PRESSURE RETAINING [illegible]LE WELDS IN VESSELS
ITEM NO : C2.22 NOZZLE INSIDE [illegible] [illegible]ECTION IN VESSELS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	4	2	2	100.0	0	100.0	50.0	100.0
TOTAL	4	2	[illegible]	100.0	0	100.0	50.0	100.0

CATEGORY : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
ITEM NO : C3.10 PRESSURE VESSEL INTEGRALLY WELDED ATTACHMENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	8	4	2	50.0	0	50.0	50.0	67.0
TOTAL	8	4	2	50.0	0	50.0	50.0	67.0

CATEGORY : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
ITEM NO : C3.20 PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	0	0.0	0	0.0	50.0	67.0
HP	5	5	1	20.0	2	60.0	50.0	67.0
MS	5	5	4	80.0	0	80.0	50.0	67.0
RHR	13	13	5	38.5	3	61.5	50.0	67.0
TOTAL	25	25	10	40.0	5	60.0	50.0	67.0

CATEGORY : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
ITEM NO : C7.EX EXEMPT CLASS 2 PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	5	-----	0	-----	0	-----	0.0	0.0
HP	2	-----	0	-----	0	-----	0.0	0.0
RCI	4	-----	0	-----	0	-----	0.0	0.0
RHR	12	-----	0	-----	0	-----	0.0	0.0
TOTAL	23	0	0	-----	0	-----	0.0	0.0

CATEGORY : C-D PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
ITEM NO : C4.30 PUMP BOLTS AND STUDS (> 2")

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
HP	17	-----	9	-----	0	-----	34.0	67.0
TOTAL	17	26	9	34.6	0	34.6	34.0	67.0

CATEGORY : C-F-2 PRESSURE RETAINING WELDS IN CARBON/LOW ALLOY STEEL PIPING
ITEM NO : C5.51 PIPING CIRC. WELD >= 3/8" NOMINAL WALL THICKNESS & NPS > 4

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CRD	32	-----	2	-----	0	-----	50.0	67.0
CS	112	-----	4	-----	1	-----	50.0	67.0
FW	107	-----	3	-----	2	-----	50.0	67.0
HP	128	-----	4	-----	2	-----	50.0	67.0
MS	178	-----	6	-----	1	-----	50.0	67.0
RCI	4	-----	0	-----	0	-----	50.0	67.0
RHR	442	-----	17	-----	6	-----	50.0	67.0
TOTAL	1003	76	36	47.4	12	63.2	50.0	67.0

CATEGORY : C-F-2 PRESSURE RETAINING WELDS IN CARBON/LOW ALLOY STEEL PIPING
ITEM NO : C5.81 PIPE BRANCH CONNECTION CICUMFERENTIAL WELD

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
FW	1	-----	1	-----	0	-----	50.0	67.0
MS	5	-----	0	-----	1	-----	50.0	67.0
RHR	5	-----	0	-----	0	-----	50.0	67.0
TOTAL	11	3	1	33.3	1	66.7	50.0	67.0

CATEGORY : C-F-2 PRESSURE RETAINING WELDS IN CARBON/LOW ALLOY STEEL PIPING
ITEM NO : C7.EX EXEMPT CLASS 2 PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	18	-----	0	-----	0	-----	0.0	0.0
HP	11	-----	0	-----	0	-----	0.0	0.0
RCI	5	-----	0	-----	0	-----	0.0	0.0
RHR	160	-----	1	-----	0	-----	0.0	0.0
TOTAL	194	0	1	-----	0	-----	0.0	0.0

CATEGORY : D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
ITEM NO : D1.20 RV SHUTDOWN INTEGRAL ATTACHMENTS - SUPPORTS AND RESTRAINTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCI	2	2	0	0.0	0	0.0	50.0	67.0
RHR	13	13	5	38.5	2	53.8	50.0	67.0
SW	27	27	12	44.4	3	55.6	50.0	67.0
TOTAL	42	42	17	40.5	5	52.4	50.0	67.0

CATEGORY : D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
ITEM NO : D1.30 RV SHUTDOWN INTEGRAL ATTACHMENTS - SNUBBERS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	3	3	2	66.7	0	66.7	50.0	67.0
TOTAL	3	3	2	66.7	0	66.7	50.0	67.0

CATEGORY : D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
ITEM NO : D1.40 RV SHUTDOWN INTEGRAL ATTACHMENTS - SPRING TYPE SUPPORTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	2	-----	1	-----	0	-----	50.0	67.0
SW	1	-----	0	-----	1	-----	50.0	67.0
TOTAL	3	3	1	33.3	1	66.7	50.0	67.0

CATEGORY : D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
ITEM NO : D2.20 ECCS, ETC. INTEGRAL ATTACHMENTS - SUPPORTS AND RESTRAINTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
NB	19	19	5	26.3	5	52.6	50.0	67.0
TOTAL	19	19	5	26.3	5	52.6	50.0	67.0

CATEGORY : D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
ITEM NO : D2.30 ECCS, ETC. INTEGRAL ATTACHMENTS - SNUBBERS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
NB	39	39	17	43.6	5	56.4	50.0	67.0
TOTAL	39	39	17	43.6	5	56.4	50.0	67.0

CATEGORY : D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
ITEM NO : D2.40 ECCS, ETC, INTEGRAL ATTACHMENTS - SPRING TYPE SUPPORTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
NB	14	14	5	35.7	3	57.1	50.0	67.0
TOTAL	14	14	[illegible]	35.7	3	57.1	50.0	67.0

CATEGORY : D-C SYSTEMS IN SUPPORT OF RHR FROM SPENT FUEL STORAGE POOL
ITEM NO : D3.1EX EXEMPT CLASS 3 CATEGORY D-C PRESSURE RETAINING COMPONENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
FP	2	-----	0	-----	0	-----	-0.1	-0.1
TOTAL	2	0	0	-----	0	-----	-0.1	-0.1

8.2 PROGRAM STATUS FOR IWF - ASME XI

INTERVAL 2, PERIOD 2

NUTECH

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING

INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 2
ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
THE WINTER 1981 ADDENDA, INTERVAL D2 ONLY

PRISIM

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DATE:92/02/13

CATEGORY : F-A PLATE AND SHELL TYPE SUPPORTS
ITEM NO : F1.EX EXEMPT CLASS 1, 2, OR 3 CATEGORY F-A COMPONENT SUPPORTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	4	-----	1	-----	0	-----	0.0	0.0
HP	1	-----	0	-----	0	-----	0.0	0.0
RCI	1	-----	0	-----	0	-----	0.0	0.0
RHR	8	-----	0	-----	0	-----	0.0	0.0
TOTAL	14	0	1	-----	0	-----	0.0	0.0

CATEGORY : F-A PLATE AND SHELL TYPE SUPPORTS
ITEM NO : F1.1-4 COMBINED ITEM NO. REPRESENTS F1.10, F1.20, F1.30, AND F1.40

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	4	4	3	75.0	1	100.0	50.0	67.0
FW	3	3	2	66.7	0	66.7	50.0	67.0
HP	2	2	0	0.0	0	0.0	50.0	67.0
MS	9	9	4	44.4	2	66.7	50.0	67.0
NB	11	11	0	0.0	4	36.4	50.0	67.0
RCI	1	1	0	0.0	0	0.0	50.0	67.0
RHR	12	12	6	50.0	2	66.7	50.0	67.0
RWC	1	1	0	0.0	1	100.0	50.0	67.0
SLC	1	1	0	0.0	0	0.0	50.0	67.0
SW	5	5	3	60.0	0	60.0	50.0	67.0
TOTAL	49	49	18	36.7	10	57.1	50.0	67.0

CATEGORY : F-B LINEAR TYPE SUPPORTS
ITEM NO : F2.EX EXEMPT CLASS 1, 2, OR 3 CATEGORY F-B COMPONENT SUPPORTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CD	8	-----	2	-----	0	-----	0.0	0.0
CS	16	-----	0	-----	0	-----	0.0	0.0
HP	2	-----	0	-----	0	-----	0.0	0.0
RCI	5	-----	0	-----	0	-----	0.0	0.0
RHR	96	-----	2	-----	0	-----	0.0	0.0
SW	2	-----	1	-----	0	-----	0.0	0.0
TOTAL	129	0	5	-----	0	-----	0.0	0.0

CATEGORY : F-B LINEAR TYPE SUPPORTS
ITEM NO : F2.1-4 COMBINED ITEM NO. REPRESENTS F2.10, F2.20, F2.30, AND F2.40

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CRD	32	32	14	43.8	7	65.6	50.0	67.0
CS	4	4	3	75.0	0	75.0	50.0	67.0
FW	5	5	1	20.0	1	40.0	50.0	67.0
HP	25	25	15	60.0	2	68.0	50.0	67.0
MS	17	17	8	47.1	4	70.6	50.0	67.0
NB	109	109	11	10.1	33	40.4	50.0	67.0
RCI	6	6	2	33.3	1	50.0	50.0	67.0
RCR	8	8	3	37.5	0	37.5	50.0	67.0
RHR	119	119	55	46.2	14	58.0	50.0	67.0
RPV	5	5	1	20.0	1	40.0	50.0	67.0
RWC	7	7	3	42.9	2	71.4	50.0	67.0
SLC	2	2	0	0.0	1	50.0	50.0	67.0
SW	171	171	80	46.8	33	66.1	50.0	67.0
TOTAL	510	510	196	38.4	99	57.8	50.0	67.0

CATEGORY : F-C COMPONENT STANDARD SUPPORTS
ITEM NO : F3.EX EXLMPT CLASS 1, 2, OR 3 CATEGORY F-C COMPONENT SUPPORTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CD	2	-----	1	-----	0	-----	0.0	0.0
CS	10	-----	2	-----	0	-----	0.0	0.0
FP	1	-----	1	-----	0	-----	0.0	0.0
RCC	1	-----	1	-----	0	-----	0.0	0.0
RHR	24	-----	1	-----	0	-----	0.0	0.0
RPV	1	-----	0	-----	0	-----	0.0	0.0
SW	3	-----	0	-----	0	-----	0.0	0.0
TOTAL	42	0	6	-----	0	-----	0.0	0.0

INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 2
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CATEGORY : F-C COMPONENT STANDARD SUPPORTS
ITEM NO. : F3.1-5 COMB. ITEM NO. REPRESENTS F3.10, F3.20, F3.30, F3.40, F3.50

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	8	8	5	62.5	1	75.0	50.0	67.0
FW	35	35	18	51.4	7	71.4	50.0	67.0
HP	19	19	7	36.8	4	57.9	50.0	67.0
MS	40	40	23	57.5	5	70.0	50.0	67.0
NB	28	28	15	53.6	5	71.4	50.0	67.0
RCI	5	5	3	60.0	1	80.0	50.0	67.0
RCR	20	20	11	55.0	3	70.0	50.0	67.0
RHR	63	63	23	36.5	11	54.0	50.0	67.0
RPV	3	3	3	100.0	0	100.0	50.0	67.0
RWC	5	5	2	40.0	2	80.0	50.0	67.0
SLC	4	4	1	25.0	2	75.0	50.0	67.0
SW	3	3	0	0.0	1	33.3	50.0	67.0
TOTAL	233	233	111	47.6	42	65.7	50.0	67.0

SECTION 9.0

INSPECTION CHECKLISTS

9.1 IWB, IWC, IWD, AND AUGMENTED PROGRAM INSPECTION CHECKLISTS

9.1 Abbreviations are utilized by PRISIM software for space considerations. The following listing of program abbreviations (exam requirement source is referenced as part of the item number) apply for the inspection checklists:

ABBREVIATION	DESCRIPTION
81W-02	Inservice examinations for ASME XI Edition 1980 with Addenda through 1981 performed for 2nd Ten Year Interval credit.
AVR-02	Vendor Recommended examinations, GE RICSIL 058, GE RICSIL 054, GE RICSIL 055, GE RICSIL 059, and GE SIL 462.
SEX-02	Sample expansion examinations performed to satisfy ASME XI, BSEP Technical Specifications, NUREGs, etc. requirements during the 2nd Ten Year Interval (additional examinations).
B01-02	Augmented program examinations performed to satisfy NUREG 0313 Revision 2 during the 2nd Ten Year Interval.
B02-02	Augmented program examinations performed to satisfy NUREG 0619 during the 2nd Ten Year Interval.
B04-02	Augmented program examinations performed to satisfy IEB 80-07 during the 2nd Ten Year Interval.
B06-02	Augmented program examinations performed to satisfy vendor recommendation GE SIL 455 and IEN 84-41 during the 2nd Ten Year Interval.
PSI-02	Preservice examinations performed to satisfy ASME XI BSEP Technical Specifications, NUREG's, etc. during the 2nd Ten Year Interval.
S81-02	Successive examinations for ASME XI Edition 1980 with Addenda through Winter 1981 for 2nd Ten Year Interval.

NUTECH

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING
OUTAGE CHECKLIST

OUTAGE : REFUEL 9 INTERVAL : 00 PERIOD : 0

PAISIM

REVISION: NIS1
DATE: 92/02/12

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
CRD	PSI-02 B7.80	2-C12-FLG-02-19	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS - N
CRD	PSI-02 B7.80	2-C12-FLG-02-23	C611	07	_	VT-1		19910928	CPL1-903677	NI - EXAMINED 8 BOLT
CRD	PSI-02 B7.80	2-C12-FLG-02-35	C611	07	_	VT-1		19910930	NES -646468	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-06-19	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 6 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-10-07	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-10-11	C611	07	_	VT-1		19910930	CPL1-903677	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-10-15	C611	07	_	VT-1		19910928	CPL1-903677	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-10-19	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-10-27	C611	07	_	VT-1		19910930	CPL1-903677	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-10-39	C611	07	_	VT-1		19910930	CPL1-903677	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-14-11	C611	07	_	VT-1		19910930	CPL1-903677	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-14-15	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-14-19	C611	07	_	VT-1		19910928	CPL1-903677	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-14-23	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-14-43	C611	07	_	VT-1		19910930	CPL1-502855	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-14-47	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-18-03	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-18-07	C611	07	_	VT-1		19910928	CPL1-502855	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-18-15	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS

NUTECH

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING
OUTAGE CHECKLIST
OUTAGE : REFUEL 9 INTERVAL : 00 PERIOD : 0

PRISIM

REVISION: NIS1
DATE: 92/02/12

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
CRD	PSI-02 B7.80	2-C12-FLG-18-19	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-18-27	C611	07	_	VT-1		19910930	CPL1-502855	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-22-03	C611	07	_	VT-1		19910928	CPL1-502855	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-22-15	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-22-19	C611	07	_	VT-1		19910930	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-22-23	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-22-27	C611	07	_	VT-1		19910928	CPL1-502855	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-22-39	C611	07	_	VT-1		19910930	_____	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-22-43	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-26-03	C611	07	_	VT-1		19910930	CPL1-502855	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-26-15	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-26-23	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-26-27	C611	07	_	VT-1		19910928	CPL1-502855	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-30-07	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-30-19	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-30-27	C611	07	_	VT-1		19910930	NES -804413	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-34-07	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-34-19	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-34-23	C611	07	_	VT-1		19910928	CPL1-218193	EXAMINED 8 BOLTS, NI

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CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING
OUTAGE CHECKLIST

OUTAGE : REFUEL 9 INTERVAL : 00 PERIOD : 0

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
CRD	PSI-02 B7.80	2-C12-FLG-34-27	C611	07	_	VT-1		19910930	NES -804413	NI ED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-34-35	C611	07	_	VT-1		19910930	NES -804413	D 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-38-07	C611	07	_	VT-1		19910928	NES -481186	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-38-11	C611	07	_	VT-1		19910928	NES -904389	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-38-15	C611	07	_	VT-1		19910930	NES -646468	EXAMINED 8 BOLTS.
CRD	PSI-02 B7.80	2-C12-FLG-38-23	C611	07	_	VT-1		19910930	NES -904389	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-38-27	C611	07	_	VT-1		19910930	NES -481186	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-42-07	C611	07	_	VT-1		19910930	NES -646468	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-42-11	C611	07	_	VT-1		19910928	NES -481186	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-42-15	C611	07	_	VT-1		19910930	NES -481186	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-42-27	C611	07	_	VT-1		19910928	NES -481186	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-42-31	C611	07	_	VT-1		19910930	NES -481186	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-42-47	C611	07	_	VT-1		19910930	NES -904389	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-46-11	C611	07	_	VT-1		19910928	NES -904389	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-46-15	C611	07	_	VT-1		19910928	NES -481186	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-46-23	C611	07	_	VT-1		19910928	NES -646468	EXAMINED 8 BOLTS, NI
CRD	PSI-02 B7.80	2-C12-FLG-50-19	C611	07	_	VT-1		19910930	NES -904389	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-50-23	C611	07	_	VT-1		19910930	NES -646468	NI. EXAMINED 8 BOLTS
CRD	PSI-02 B7.80	2-C12-FLG-50-27	C611	07	_	VT-1		19910930	NES -904389	NI. EXAMINED 8 BOLTS

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
CRD	81W-02 B7.80	2-C12-FLG-02-19	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 3
CRD	81W-02 B7.80	2-C12-FLG-02-23	C611	07	_	VT-1		19910925	CPL1-218193	EXAMINED 8 BOLTS, 4
CRD	81W-02 B7.80	2-C12-FLG-02-23	C201	14	_	PT		19910926	NES -089567	INDICATIONS ON 1 BOL
CRD	81W-02 B7.80	2-C12-FLG-10-07	C611	07	_	VT-1		19910925	CPL1-218193	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-10-07	C201	14	_	PT		19910926	CPL1-784263	EXAMINED 5 BOLTS, 2
CRD	81W-02 B7.80	2-C12-FLG-10-15	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-10-19	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-14-15	C611	07	_	VT-1		19910925	NES -886094	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-14-19	C611	07	_	VT-1		19910925	NES -089567	EXAMINED 8 BOLTS, GA
CRD	81W-02 B7.80	2-C12-FLG-18-07	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 11 BOLTS, 8
CRD	81W-02 B7.80	2-C12-FLG-18-19	C611	07	_	VT-1		19910925	CPL1-218193	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-18-19	C201	14	_	PT		19910926	CPL1-784263	INDICATIONS ON 2 BOL
CRD	81W-02 B7.80	2-C12-FLG-22-03	C611	07	_	VT-1		19910925	NES -646468	EXAMINED 8 BOLTS, 2
CRD	81W-02 B7.80	2-C12-FLG-22-15	C611	7	_	VT-1		19910925	CPL1-928053	EXAMINED 8 BOLTS, 4
CRD	81W-02 B7.80	2-C12-FLG-22-19	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-22-23	C[illegible]	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-22-27	[illegible]	[illegible]	_	VT-1		19910924	CPL1-218192	EXAMINED 8 BOLTS, 1
CRD	81W-02 B7.80	2-C12-FLG-26-27	[illegible]	[illegible]	_	VT-1		19910924	CPL1-210193	EXAMINED 8 BOLTS, GE
CRD	81W-02 B7.80	2-C12-FLG-30-19		7	_	VT-1		19910924	CPL1-218193	EXAMINED 8 BOLTS, 3

NUTECH

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING
OUTAGE CHECKLIST

OUTAGE : REFUEL 9 INTERVAL : 00 PERIOD : 0

PRISIM

REVISION: NIS1
DATE: 92/02/12

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
CRD	B1W-02 B7.80	2-C12-FLG-30-19	C201	14	_	PT		19910925	CPL1-784263	INDICATION ON 1 BOLT
CRD	B1W-02 B7.80	2-C12-FLG-34-07	C611	07	_	VT-1		19910925	NES -068554	EXAMINED 8 BOLTS, 3
CRD	B1W-02 B7.80	2-C12-FLG-34-19	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 1
CRD	B1W-02 B7.80	2-C12-FLG-34-23	C611	07	_	VT-1		19910925	NES -883094	EXAMINED 8 BOLTS, 6
CRD	B1W-02 B7.80	2-C12-FLG-38-07	C611	07	_	VT-1		19910925	CPL1-866695	EXAMINED 8 BOLTS, 1
CRD	B1W-02 B7.80	2-C12-FLG-38-11	C611	07	_	VT-1		19910925	CPL1-502855	EXAMINED 8 BOLTS, 1
CRD	B1W-02 B7.80	2-C12-FLG-38-15	C611	07	_	VT-1		19911003	NES -089567	EXAMINED 8,3 8,3 H&G
CRD	B1W-02 B7.80	2-C12-FLG-38-15	C201	14	_	PT		19911003	NES -089567	EXAMINED 3 BOLTS, 2
CRD	B1W-02 B7.80	2-C12-FLG-42-11	C611	07	_	VT-1		19910925	CPL1-502855	EXAMINED 8 BOLTS, 3
CRD	B1W-02 B7.80	2-C12-FLG-42-27	C611	07	_	VT-1		19910925	CPL1-502855	EXAMINED 8 BOLTS, 2
CRD	B1W-02 B7.80	2-C12-FLG-46-11	C611	07	_	VT-1		19910925	CPL1-502855	EXAMINED 8 BOLTS, 2
CRD	B1W-02 B7.80	2-C12-FLG-46-15	C611	07	_	VT-1		19910925	NES -886094	EXAMINED 8 BOLTS, 1
CRD	B1W-02 B7.80	2-C12-FLG-46-15	C201	14	_	PT		19910926	NES -089567	INDICATION ON 1 BOLT
CRD	B1W-02 B7.80	2-C12-FLG-46-23	C611	07	_	VT-1		19910924	CPL1-210193	EXAMINED 8 BOLTS, 1
CRD	B1W-02 B7.80	2-C12-FLG-46-23	C201	14	_	PT		19910925	NES -089567	INDICATION ON 1 BOLT
CRD	B1W-02 C5.51	2C12AB-54-FW21	GMT100	00	_	MT		19911001	GE -706820	NRI.
CRD	B1W-02 C5.51	2C12AB-54-FW21	GUT106	02	_	UT-45S	091-B	19911001	GE -706820	ID & OD GEOMETRY LES
CRD	B1W-02 C5.51	2C12AB-54-FW21	GUT106	02	_	UT-00	091-B	19911001	GE -706820	NRI.
CS	B01-02 B5.10	2B11N5A-4-FWRN16	GUT209	01	_	UT-60L	063-B	19911011	GE -563878	NO SGFNT CHNGS FRM P

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
CS	B01-02 B5.10	2B11N5A-4-FWRN16	GUT209	01	_	UT-45L	083-B	19911011	GE -563878	NO SGFNT CHNGS FRM P
CS	B01-02 B5.10	2B11N5A-4-FWRN16	GUT208	01	_	UT-45S	054-B	19911014	GE -563878	ROOT GEO. NO SGFNT C
CS	B1w-02 B7.70	2-E21-F006A	CG11	07	_	VT-1		19911027	NES -068554	NI. EXAMD 12 STUDS&N
CS	B1w-02 B9.11	2E213-2-3-SWA	GUT106	02	_	UT-45S	013-B	19911018	GE -706820	NRI. ID GEO UPST < R
CS	B1w-02 B9.11	2E213-2-3-SWA	GMT100	00	_	MT		19911018	GE -706020	NRI.
CS	B1w-02 B9.11	2E213-2-3-FWW5	GUT106	02	_	UT-45S	013-B	19911018	GE -706820	ID GOD GEO < REC.360
CS	B1w-02 B9.11	2E213-2-3-FWW5	GMT100	00	_	MT		19911018	GE -706820	NRI.
CS	B1w-02 B9.11	2E213-3-3-FWW6	GUT106	02	_	UT-45S	013-B	19911018	GE -706820	NRI. NO EXM UPST,VAL
CS	B1w-02 B9.11	2E213-3-3-FWW6	GMT100	00	_	MT		19911018	GE -706820	NRI.
CS	B1w-02 C5.51	2E216-39-FWF002A-B	GUT106	02	_	UT-00	092-B	19910927	GE -706620	NO EXAM DNST FROM 16
CS	B1w-02 C5.51	2E216-39-FWF002A-B	GMT100	00	_	MT		19910927	GE -706820	NRI.
CS	B1w-02 C5.51	2E216-39-FWF002A-B	GUT106	02	_	UT-45S	092-B	19910927	GE -706820	ID GEO < RECORDABLE.
CS	B1- 02 C5.51	2E218-39-FW6	GMT100	00	_	MT		9910927	GE -706820	NRI.
CS	B1w-02 C5.51	2E218-39-FW6	GUT106	02	_	UT-45S	030-B	19910927	GE -706820	ID&OD GEO < RECORDAB
CS	B1w-02 C5.51	2E218-39-FW6	GUT106	02	_	UT-00	030-B	19910927	GE -706820	LIMITD,W-1.25",DUE T
FW	B02-02 SAFEND	2B21-N4B-SE	GUT101	02	_	UT-45S	059-B	19911001	GE -706820	ID GEO < REC. 360 DE
FW	B02-02 SAFEND	2B21-N4A-SE	GUT101	02	_	UT-45S	059-B	19911001	GE -706820	ID GEO < RECORDABLE.
FW	B02-02 SAFEND	2B21-N4D-SE	GUT101	02	_	UT-45S	059-B	19911001	GE -706820	ID GEO < REC. 360 DE
FW	B02-02 SAFEND	2B21-N4C-SE	GUT101	02	_	UT-45S	059-B	19911001	GE -706820	ID GEO < RECORDABLE.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
FW	PSI-02 B12.50	2-B21-F010A	C613	11	_	VT-3		19911028	NES -904389	NRI. SLIGHT OXIDATIO
FW	PSI-02 B12.50	2-B21-F010B	C613	11	_	VT-3		19911028	NES -804413	NRI. EVIDENCE VEDOR
FW	PSI-02 B9.11	2B212X9A-1-FWX9AFW5A	GUT106	02	_	UT-455	017-B	19911024	GE -256527	NRI. NO EXAM DNST. V
FW	PSI-02 B9.11	2B212X9A-1-FWX9AFW5A	GUT106	02	_	UT-00	017-B	19911024	GE -256527	NRI. NO EXAM DNST. V
FW	PSI-02 B9.11	2B212X9A-1-FWX9AFW5A	GQP9.7	03	_	PT		19911024	PCI -485276	NI.
FW	PSI-02 B9.11	2B21FF-1-FW1294	GUT106	02	_	UT-00	017-B	19910927	GE -256527	NO EXAM UPSTREAM DUE
FW	PSI-02 B9.11	2B21FF-1-FW1294	GUT106	02	_	UT-455	017-B	19910927	GE -520392	NO UPSTREAM EXAM DUE
FW	PSI-02 B9.11	2B21FF-1-FW1294	GQP9.7	03	_	PT		19910927	PCI -883489	NI.
FW	PSI-02 B9.11	2B21FF-1-FW1295	GUT106	02	_	UT-00	017-B	19911024	GE -256527	NRI.
FW	PSI-02 B9.11	2B21FF-1-FW1295	GQP9.7	03	_	PT		19911024	PCI -485276	NI.
FW	PSI-02 B9.11	2B21FF-1-FW1295	GUT106	02	_	UT-455	017-B	19911024	GE -256527	NRI.
FW	PSI-02 B9.11	2B212X9B-4-FWX9BFW5A	GQP9.7	03	_	PT		19911026	PCI -485276	NI.
FW	PSI-02 B9.11	2B212X9B-4-FWX9BFW5A	GUT106	02	_	UT-455	017-B	19911025	GE -256527	NRI. NO EXAM DNST. V
FW	PSI-02 B9.11	2B212X9B-4-FWX9BFW5A	GUT106	02	_	UT-00	017-B	19911025	GE -256527	NRI. NO EXAM DNST. V
FW	PSI-02 B9.11	2B21FF-4-FW1303	GUT106	02	_	UT-00	017-B	19910927	GE -256527	NO EXAM UPSTREAM DUE
FW	PSI-02 B9.11	2B21FF-4-FW1303	GUT106	02	_	UT-455	017-B	19910921	GE -520392	NO UPSTREAM EXAM DUE
FW	PSI-02 B9.11	2B21FF-4-FW1303	GQP9.7	03	_	PT		19910927	PCI -485276	NI.
FW	PSI-02 B9.11	2B21FF-4-FW1304	GUT106	02	_	UT-00	017-B	19911025	GE -256527	NRI.
FW	PSI-02 B9.11	2B21FF-4-FW1304	GQP9.7	03	_	PT		19911026	PCI -485276	NI.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
FW	PSI-02 B9.11	2B21FF-4-FW1304	GUT106	02	_	UT-45S	017-B	19911025	GE -256527	NRI. ID GEO < REC.
FW	81W-02 B9.11	2B21S-2-5-FWRN4	GUT106	02	_	UT-45S	059-B	19911001	GE -706820	LIMITED EXAM DNST. W
FW	81W-02 B9.11	2B21S-2-5-FWRN4	GMT100	00	_	MT		19911001	GE -706820	NRI.
FW	81W-02 C5.51	2FWGE-9-SWB	GUT106	02	_	UT-45S	017-B	19910926	GE -706820	ID & OD GEO < RECORD
FW	81W-02 C5.51	2FWGE-9-SWB	GUT106	02	_	UT-00	017-B	19910026	GE -706820	NO EXAM DNST DUE TO
FW	81W-02 C5.51	2FWGE-9-SWB	GMT100	00	_	MT		19910926	GE -706820	NRI.
FW	81W-02 C5.51	2FW63-8-FWB4	C301	10	_	MT		19911107	CPLN-045333	NRI.
HP	PSI-02 B9.11	2E414-4-4-FWR10A	GUT106	02	_	UT-00	014-B	19911023	GE -520392	NRI. NO EXAM DNST. V
HP	PSI-02 B9.11	2E414-4-4-FWR10A	GUT106	02	_	UT-45S	014-B	19911023	GE -747078	NRI. NO EXAM DNST. V
HP	PSI-02 B9.11	2E414-4-4-FWR10A	GQP9.7	03	_	PT		19911023	PCI -485276	NI.
HP	PSI-02 B9.11	2E414-3-4-FW537	GUT106	02	_	UT-45S	014-B	19911008	GE -706820	ID GEO < RECORDABLE.
HP	PSI-02 B9.11	2E414-3-4-FW537	GUT106	02	_	UT-00	014-B	19911008	GE -706820	NO EXAM UPST DUE TO
HP	PSI-02 B9.11	2E414-3-4-FW537	GQP9.7	03	_	PT		19911011	_____	NI.
HP	PSI-02 B9.11	2E414-3-4-FW538	GQP9.7	03	_	PT		19911023	PCI -485276	NI.
HP	PSI-02 B9.11	2E414-3-4-FW538	GUT106	02	_	UT-00	014-B	19911023	GE -747078	NRI. LIMTD. L O"-1"
HP	PSI-02 B9.11	2E414-3-4-FW538	GUT106	02	_	UT-45S	014-B	19911023	GE -747078	NRI. LIMTD. L O"-1"
HP	PSI-02 B9.11	2E414-1-4-FWR5A	GUT106	02	_	UT-00	014-B	19911001	GE -256527	NO EXAM DNST DUE TO
HP	PSI-02 B9.11	2E414-1-4-FWR5A	GUT106	02	_	UT-45S	014-B	19911001	GE -256527	ID GEO < RECORDABLE.
HP	PSI-02 B9.11	2E414-1-4-FWR5A	GQP9.7	03	_	PT		19911001	PCI -485276	NI.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
HP	PSI-02 C5.51	2E4124-61-FW534	GUT106	02	_	UT-00	014-B	19910926	GE -706820	NRI. NO EXAM UPSTM D
HP	PSI-02 C5.51	2E4124-61-FW534	GUT106	02	_	UT-45S	014-B	19910926	GE -706820	NRI. NO EXAM UPSTM D
HP	PSI-02 C5.51	2E4124-61-FW534	GQP9.7	03	_	PT		19910926	PCI -485276	NI.
HP	PSI-02 C5.51	2E4124-61-FW535	GUT106	02	_	UT-45S	014-B	19911001	GE -706820	ID GEO < RECORDABLE.
HP	PSI-02 C5.51	2E4124-61-FW535	GUT106	02	_	UT-00	014-B	19911001	GE -706820	NI
HP	PSI-02 C5.51	2E4124-61-FW535	GQP9.7	03	_	PT		19911001	PCI -485276	NI.
HP	PSI-02 C5.51	2E41FF-20-FW475	GQP9.7	03	_	PT		19911005	PCI -485276	NI.
HP	PSI-02 C5.51	2E41FF-20-FW475	GUT106	02	_	UT-00	061-B	19911028	GE -256527	NRI.
HP	PSI-02 C5.51	2E41FF-20-FW475	GUT106	02	_	UT-45	061-B	19911028	GE -256527	NRI. ID GEO BELOW RE
HP	PSI-02 C5.51	2E41FF-20-FW476	GQP9.7	03	_	PT		19911005	PCI -485276	NI.
HP	PSI-02 C5.51	2E41FF-20-FW476	GUT106	02	_	UT-45S	061-B	19910920	GE -520392	ID GEOMETRY BELOW RE
HP	PSI-02 C5.51	2E41FF-20-FW476	GUT106	02	_	UT-00	061-B	19910920	GE -520392	NRI.
HP	B1W-02 B12.50	2-E41-V159	C613	11	_	VT-3		19911204	CPL1-784263	NRI. GEN SURF COND G
HP	B1W-02 B9.11	2E414-3-4-FWR8	GUT106	02	_	UT-45S	014-B	19911016	GE -706820	NI. ID GEO < RECORDA
HP	B1W-02 B9.11	2E414-3-4-FWR8	GMT100	00	_	MT		19911016	GE -706820	NI.
HP	B1W-02 B9.11	2E414-2-4-SWA	GUT106	02	_	UT-45S	014-B	19911016	GE -706820	NI. ID & OD GEO < RE
HP	B1W-02 B9.11	2E414-2-4-SWA	GMT100	00	_	MT		19911016	GE -706820	NI.
HP	B1W-02 C4.30	2E41PU-BOLT-11	GUT108	00	_	UT-00	081-B	19910927	GE -706820	EXAMINED FROM BOTTOM
HP	B1W-02 C4.30	2E41PU-BOLT-14	GUT108	00	_	UT-00	081-B	19910927	GE -706820	EXAMINED FROM BOTTOM

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
HP	B1W-02 C4.30	2E41PU-BOLT-15	GUT108	00	_	UT-00	081-B	19910927	GE -706820	EXAMINED FROM BOTTOM
HP	B1W-02 C4.30	2E41PU-BOLT-8	GUT108	00	_	UT-00	081-B	19910927	GE -706820	EXAMINED FROM BOTTOM
HP	B1W-02 C5.51	2E415D-6-FW8D	GUT106	02	_	UT-45S	082-B	19910926	GE -520392	LIMITED EXAMINATION,
HP	B1W-02 C5.51	2E415D-6-FW8D	GUT106	02	_	UT-00	082-B	19910926	GE -520392	LIMITED EXAMINATION
HP	B1W-02 C5.51	2E415D-6-FW8D	GMT100	00	_	MT		19910926	GE -706820	NRI.
HP	B1W-02 C5.51	2E4149-6-SWA	C301	10	_	MT		19911111	CPLN-045333	NRI.
HP	B1W-02 C5.51	2E412D-2-SWA	GUT106	02	_	UT-00	075-B	19910926	GE -520392	LIMITED EXAMINATION
HP	B1W-02 C5.51	2E412D-2-SWA	GUT106	02	_	UT-45S	075-B	19910920	GE -520392	LIMITED EXAM 7.5"-11
HP	B1W-02 C5.51	2E412D-2-SWA	GMT100	00	_	MT		19910927	GE -706820	NRI.
JPI	B01-02 B5.10	2B11N8A-RPV-SWAB	GUT102	03	_	UT-60L	039-B	19911011	GE -722996	NI. LIMTD DNST,W 1.5
JPI	B01-02 B5.10	2B11N8A-RPV-SWAB	GUT102	03	_	UT-60L	036-B	19911011	GE -722996	NI. CIRC SCANS,NO ID
JPI	B01-02 B5.10	2B11N8A-RPV-SWAB	GUT102	03	_	UT-45L	039-B	19911011	GE -722996	NI. ROOT 0 < REC,3
JPI	B01-02 B5.10	2B11N8A-RPV-SWAB	GUT102	03	_	UT-45L	036-B	19911011	GE -722996	NI. 10-30% ID ROLL.
JPI	B01-02 B5.10	2B11N8A-RPV-SWAB	GUT102	03	_	UT-45S	039-B	19911011	GE -722996	NI. ROOT GEO < REC,
JPI	B01-02 B5.10	2B11N8A-RPV-SWAB	GUT102	03	_	UT-45S	036-B	19911011	GE -722996	NI.
JPI	B01-02 B9.11	2B11N8A-JPI-FWRI22-1A	GUT102	03	_	UT-45S	002-B	19911011	GE -722996	NI.
MS	PSI-02 B12.50	2-B21-F013A	C613	11	_	VT-3		19911012	NES -089567	EXAMINED UPSTREAM AC
MS	PSI-02 B12.50	2-B21-F013C	C613	11	_	VT-3		19911012	NES -089567	EXAMD UPST ACCESSIBL
MS	PSI-02 B12.50	2-B21-F028C	C613	11	_	VT-3		19911027	NES -904389	NRI. LIGHT OXIDATION

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
MS	PSI-02 B12.50	2-B21-F028D	C613	11	_	VT-3		19911029	CPL1-784263	NI. REF 91-AQSE1 & 8
MS	B1W-02 B12.50	2-B21-F013A	C613	11	_	VT-3		19911012	NES -089567	EXAMD UPST ACCESSIBL
MS	B1W-02 B12.50	2-B21-F013C	C613	11	_	VT-3		19911012	NES -089567	EXAMD UPST ACCESSIBL
MS	B1W-02 B12.50	2-B21-F022C	C613	11	_	VT-3		19911114	NES -906493	NRI. GOUGE IS <10% W
MS	B1W-02 B12.50	2-B21-F028C	C613	11	_	VT-3		19911015	CPL1-784263	RI. L -1/4" NICK -1/
MS	B1W-02 B12.50	2-B21-F022D	C613	11	_	VT-3		19911114	NES -089567	NRI. GEN SURF COND G
MS	B1W-02 B12.50	2-B21-F028D	C613	11	_	VT-3		19911015	CPL1-784263	RI. L GOUGE, J WEAR.
MS	B1W-02 B7.50	2-B21-FLG-N7-1	C611	07	_	VT-1		19910914	NES -804413	EXAMD 8 STUDS& 16 NU
MS	B1W-02 B7.70	2-B21-F022B	C611	07	_	VT-1		19911024	NES -089567	EXMD 20 STUDS&NUTS.
MS	B1W-02 B7.70	2-B21-F022C	C611	07	_	VT-1		19911024	NES -089567	EXMD 20 STUDS&NUTS.
MS	B1W-02 B9.11	2B21PS1B5-24 SWA	GMT100	00	_	MT		19911018	GE -706820	NRI. EXAMD 2 LONGSEA
MS	B1W-02 B9.11	2B21PS1B5-24-SWA	GUT106	02	_	UT-45S	019-B	19911018	GE -520392	ID GEO < REC. LIMTD
MS	B1W-02 B9.11	2B21PS1B5-24-FWB6	GUT106	02	_	UT-45S	019-B	19911018	GE -520392	ID GEO < REC. NO EXA
MS	B1W-02 B9.11	2B21PS1B5-24-FWB6	GMT100	00	_	MT		19911018	GE -706820	NRI.
MS	B1W-02 B9.11	2B21PS1B6-24-FWB7	GMT100	00	_	MT		19911018	GE -706820	NRI.
MS	B1W-02 B9.11	2B21PS1B6-24-FWB7	GUT106	02	_	UT-45S	019-B	19911018	GE -520392	ID GEO < REC. NO EXA
MS	B1W-02 B9.11	2B21PS1C5-24-FWC6	GMT100	00	_	MT		19911018	GE -706820	NRI.
MS	B1W-02 B9.11	2B21PS1C5-24-FWC6	GUT106	02	_	UT-45S	019-B	19911018	GE -520392	ID GEO < REC. NO EXA
MS	B1W-02 B9.11	2B21PS1C6-24-FWC7	GMT100	00	_	MT		19911018	GE -706820	NRI.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
MS	B1W-02 B9.11	2B21PS1C6-24-FWC7	GUT106	02	_	UT-455	019-B	19911018	GE -520392	ID GEO < REC. NO EXA
MS	B1W-02 C3.20	2MS29-3-SWB	GPT100	02	_	PT		19910925	GE -788543	NRI
MS	B1W-02 C3.20	2MS51-9-SWF	GMT100	00	_	MT		19910924	GE -706820	NRI
MS	B1W-02 C5.51	2MS23-3-SWA	GMT100	00	_	MT		19910924	GE -706820	NRI.
MS	B1W-02 C5.51	2MS23-3-SWA	GUT106	02	_	UT-455	019-B	19910924	GE -706820	LIMITED EXAMINATION
MS	B1W-02 C5.51	2MS24-3-FW2B	GMT100	00	_	MT		19910923	GE -706820	NRI.
MS	B1W-02 C5.51	2MS24-3-FW2B	GUT106	02	_	UT-455	019-B	19910923	GE -520392	ID GEOMETRY LESS THA
MS	B1W-02 C5.51	2MS43-29-SWC	C301	10	_	MT		19911107	CPLN-045333	NRI.
NB	B1W-02 D2.20	2-B21-11PG222	C613	11	_	VT-3		19911011	NES -082699	NI.
NB	B1W-02 D2.30	2-B21-12SS290	C613	11	_	VT-3		19911011	NES -068554	NI.
NB	B1W-02 D2.30	2-B21-19SS194	C613	11	_	VT-3		19911011	CPL1-029865	NI.
NB	B1W-02 D2.30	2-B21-26SS201	C613	11	_	VT-3		19911012	NES -082699	NI.
NB	B1W-02 D2.30	2-B21-28SS204	C613	11	_	VT-3		19911012	NES -082699	NI.
NB	B1W-02 D2.30	2-B21-27SS269	C613	11	_	VT-3		19911018	NES -082699	NI.
NB	B1W-02 D2.30	2-B21-33SS249	C613	11	_	VT-3		19911012	CPL1-029865	NI.
NB	B1W-02 D2.30	2-B21-59SS325	C613	11	_	VT-3		19911011	CPL1-784263	NI.
NB	B1W-02 D2.40	2-B21-59VS328	C613	11	_	VT-3		19911012	NES -068554	NI.
RCR	AVR-02 R1L058	2B32RECIRC-28-A-15	GUT102	03	_	VOL	009-BR	19911014	_____	R1L058. NI. ID GEO <
RCR	AVR-02 R1L059	2B32RECIRC-28-B-2	GUT102	03	_	VOL	009-BR	19911015	_____	R1CS1L058. ALSO EXMD

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RCR	B01-02 B5.10	2B32RECIRC-28-A-1	GUT209	01	_	UT-60L	28-002	19911019	GE -563878	RI.
RCR	B01-02 B5.10	2B32RECIRC-28-A-1	GUT209	01	_	UT-45L	28-002	19911019	GE -563878	RI.
RCR	B01-02 B5.10	2B32RECIRC-28-A-1	GUT208	01	_	UT-45S	046-B	19911019	GE -563878	NRI. EXAMINED SAFE E
RCR	B01-02 B5.10	2B32RECIRC-28-B-1	GUT209	01	_	UT-60L	28-002	19911018	GE -722996	RI. MANUAL SIZING EX
RCR	B01-02 B5.10	2B32RECIRC-28-B-1	GUT209	01	_	UT-45L	28-002	19911018	GE -722996	RI. SIZED WITH MANUA
RCR	B01-02 B5.10	2B32RECIRC-28-B-1	GUT208	01	_	UT-45S	046-B	19911018	GE -563878	NRI. EXAMINED SAFE E
RCR	B01-02 B9.11	2B32RECIRC-28-A-3	GUT102	03	_	UT-60L	009-BR	19911015	GE -520392	ID GEO < REC.10-30%I
RCR	B01-02 B9.11	2B32RECIRC-28-A-3	GUT208	01	_	UT-45S	009-BR	19911012	GE -563878	NO SGFNT CHNGS FRM P
RCR	B01-02 B9.11	2B32RECIRC-28-A-5	GUT208	01	_	UT-45S	009-BR	19911019	GE -722996	NRI. NO EXAM DNST. T
RCR	B01-02 B9.11	2B32RECIRC-28-A-7	GUT102	03	_	UT-60L	009-BR	19911021	GE -722996	NRI. NO EXAM DNST. T
RCR	B01-02 B9.11	2B32RECIRC-28-A-7	GUT102	03	_	UT-45S	009-BR	19911012	GE -520392	NI. ID GEO < REC. LI
RCR	B01-02 B9.11	2B32RECIRC-28-A-7	GUT102	03	_	UT-60L	009-BR	19911012	GE -520392	NI. ID GEO < REC.LIM
RCR	B01-02 B9.11	2B32RECIRC-4-A-2	GUT102	03	_	UT-45L	002-B	19911018	GE -747078	NI. ID GEO 360 DEG.N
RCR	B01-02 B9.11	2B32RECIRC-4-A-2	GUT102	03	_	UT-45S	002-B	19911018	GE -747078	NI. ID GEO 360 DEG.
RCR	B01-02 B9.11	2B32RECIRC-28-A-15	GUT102	03	_	UT-60L	009-BR	19911014	GE -520392	NI. ID GEO < REC. 10
RCR	B01-02 B9.11	2B32RECIRC-28-A-15	GUT102	03	_	UT-45S	009-BR	19911014	GE -520392	NI. ID GEO < REC.
RCR	B01-02 B9.11	2B32RECIRC-28-B-2	GUT208	01	_	UT-45S	009-BR	19911019	GE -722996	LIMTD UPST,W.B-1.5",
RCR	B01-02 B9.11	2B32RECIRC-28-B-2	GUT102	03	_	UT-6L	009-BR	19911015	GE -520392	LIMTD UPST,W1.5",SE
RCR	B01-02 B9.11	2B32RECIRC-28-B-6	GUT102	03	_	UT-45S	009-BR	19911015	GE -706820	NRI. EXM PRFMD UPST

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RCR	B01-02 B9.11	2B32RECIRC-28-B-6	GUT102	03	_	UT-60L	009-BR	19911015	GE -520392	NRI. ID GEO < REC. 1
RCR	B01-02 B9.11	2B32RECIRC-28-B-6	GUT208	01	_	UT-45S	009-BR	19911012	GE -706820	NRI. EXAM LIMTD UPST
RCR	B01-02 B9.11	2B32RECIRC-28-B-7	GUT102	03	_	UT-60L	009-BR	19911012	GE -520392	NRI.ID GEO < REC.UPS
RCR	B01-02 B9.11	2B32RECIRC-28-B-7	GUT102	03	_	UT-45S	009-BR	19911012	GE -520392	NRI. ID GEO < REC. U
RCR	B01-02 B9.11	2B32RECIRC-22-AM-1	GUT102	03	_	UT-60L	007-BR	19911015	GE -171801	NRI. NO EXM UPST,VAL
RCR	B01-02 B9.11	2B32RECIRC-22-AM-1	GUT102	03	_	UT-45S	007-BR	19911015	GE -706820	NRI. NO EXM UPST,VAL
RCR	B01-02 B9.11	2B32RECIRC-22-AM-1	GUT208	01	_	UT-60L	007-BR	19911014	GE -727479	NRI. NO EXAM UPST,VA
RCR	B01-02 B9.11	2B32RECIRC-22-AM-1	GUT208	01	_	UT-45S	007-BR	19911014	GE -563878	RI. NO EXM UPST,VALV
RCR	B01-02 B9.11	2B32FF-12-FWRRA13A	GUT102	03	_	UT-45S	114-B	19911021	GE -722996	NO EXAM UPST, SWEEPO
RCR	B01-02 B9.11	2B32FF-12-FWRRA13A	GUT102	03	_	UT-60L	114-B	19911021	GE -722996	NO EXAM UPST,SWEEPOL
RCR	B01-02 B9.11	2B32FF-12-FWRRA13A	GUT208	01	_	UT-60L	114-B	19911017	GE -563878	LIMTD EXAM, NON-RMVB
RCR	B01-02 B9.11	2B32FF-12-FWRRA13A	GUT208	01	_	UT-45S	114-B	19911016	GE -563878	ROOT GEO. LIMTD EXAM
RCR	B01-02 B9.11	2B32RECIRC-22-BM-4	GUT102	03	_	UT-60L	007-BR	19911021	GE -722996	NRI. EXAMD UPST ONLY
RCR	B01-02 B9.11	2B32RECIRC-22-BM-4	GUT102	03	_	UT-45S	007-BR	19911021	GE -722996	NRI. EXAMD 6-30" DUE
RCR	B01-02 B9.11	2B32RECIRC-22-BM-4	GUT208	01	_	UT-45S	007-BR	19911020	GE -563878	NI. NO EXAM DNST, VA
RCR	B01-02 B9.31	2B32RECIRC-28-A-9BC-1	GUT102	03	_	UT-45S	009-BR	19911012	GE -520392	NI. NO EXAM DNST,WEL
RCR	B01-02 B9.31	2B32RECIRC-28-A-9BC-1	GUT102	03	_	UT-60L	009-BR	19911012	GE -520392	NI. NO EXAM DNST,WEL
RCR	B01-02 B9.31	2B32RECIRC-28-A-9BC-1	GUT102	03	_	UT-45S	039-B	19911019	GE -520392	NI. EXAM PERFORMED O
RCR	B01-02 B9.31	2B32RECIRC-28-A-12BC	GUT102	03	_	UT-60L	009-BR	19911012	GE -520392	NRI.NO EXM DNST,WELD

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RCR	B01-02 B9.31	2B32RECIRC-28-A-12BC	GUT102	03	_	UT-45S	009-BR	19911012	GE -520392	NRI. NO EXAM DNST,WE
RCR	B01-02 OVRLAY	2B32RECIRC-28-A-4	GUT212	01	_	UT-CW	102ROL	19911015	GE -563878	RI. NO SGFNT CHNGS F
RCR	B01-02 OVRLAY	2B32RECIRC-28-A-4	GUT212	01	_	UT-60L	102ROL	19911015	GE -727479	RI. NO SGFNT CHNGS F
RCR	B01-02 OVRLAY	2B32RECIRC-4-A-11	GUT103	01	_	UT-60L	110ROL	19911021	GE -563878	NRI. SCAND AT 68 DB.
RCR	B01-02 OVRLAY	2B32RECIRC-4-A-11	GUT103	01	_	UT-CW	110ROL	19911021	GE -563878	NRI. SCAND AT 62 DB.
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-3	GUT212	01	_	UT-60L	102ROL	19911013	GE -563878	RI. 13 IGSCC. 1 LOFU
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-3	GUT212	01	_	UT-CW	102ROL	19911014	GE -727479	RI. 13 IGSCC. 1 LOFU
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-4	GUT212	01	_	UT-60L	102ROL	19911016	GE -722996	RI. NO SGFNT CHNGES
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-4	GUT103	01	_	UT-CW	102ROL	19911029	GE -563878	NRI. SCN LIMTD,L81-9
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-4	GUT212	01	_	UT-CW	102ROL	19911015	GE -722996	RI. NO SGFNT CHNGS F
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-5	GUT212	01	_	UT-CW	102ROL	19911017	GE -563878	RI. 10-40% NOISE LEV
RCR	B01-02 OVRLAY	2B32RECIRC-28-B-5	GUT212	01	_	UT-60L	102ROL	19911016	GE -563878	RI. 10-40% NOISE LEV
RCR	B01-02 OVRLAY	2B32RECIRC-4-B-11	GUT103	01	_	UT-CW	110ROL	19911021	GE -563878	NRI. SCAND AT 60 DB.
RCR	B01-02 OVRLAY	2B32RECIRC-4-B-11	GUT103	01	_	UT-60L	110ROL	19911021	GE -563878	NRI. SCAND AT 68 DB.
RCR	B01-02 OVRLAY	2B32RECIRC-22-BM-1	GUT103	01	_	UT-60L	112ROL	19911021	GE -563878	NRI. SCAND AT 56DB.
RCR	B01-02 OVRLAY	2B32RECIRC-22-BM-1	GUT103	01	_	UT-CW	112ROL	19911021	GE -563878	NRI. SCAND AT 52DB.
RCR	B01-02 OVRLAY	2B32RECIRC-22-BM-1	GUT212	01	_	UT-60L	112ROL	19911020	GE -563878	NRI. LIMTD EXAM. BOX
RCR	B01-02 OVRLAY	2B32RECIRC-22-BM-1	GUT212	01	_	UT-CW	112ROL	19911020	GE -722996	NRI. LIMTD EXAM. BOX
RCR	B06-02 INCBUT	2B32RECIRC-28-A-1	GUT209	01	_	UT-45S	058-B	19911019	GE -563878	NRI. EXAMINED NOZZLE

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RCR	B06-02 INCBUT	2B32RECIRC-2B-B-1	GUT209	01	_	UT-45S	058 A	19911018	GE -563878	NRI. EXAMINED NOZZLE
RCR	B1W-02 B10.10	2B32RECIRC-2B-A-1RHL-1	GPT100	02	_	PT		19911014	GE -706820	NI
RCR	B1W-02 B10.10	2B32RECIRC-2B-A-16HL-2	GPT100	02	_	PT		19911014	GE -706820	NI
RCR	B1W-02 B10.10	2B32RECIRC-2B-B-15HL-1	GPT100	02	_	PT		19911016	GE -706820	NI.
RCR	B1W-02 B10.10	2B32RECIRC-2B-B-16HL-2	GPT100	02	_	PT		19911014	GE -706820	NI
RCR	B1W-02 B10.20	2B32RECIRC-2B-A3PHL	GPT100	02		PT		19911012	GE -706820	NI.
RCR	B1W-02 B10.20	2B32RECIRC-2B-B2PHL	GPT100	02	_	PT		19911013	GE -706820	NI
RCR	B1W-02 B5. 10	2B32RECIRC-2B-A-1	GUT209	01	_	UT-60L	28-002	19911019	GE -706820	RI.
RCR	B1W-02 B5. 10	2B32RECIRC-2B-A-1	GUT208	01	_	UT-45S	046-B	19911015	GE -563878	NRI. EXAMINED SAFE E
RCR	B1W-02 B5. 10	2B32RECIRC-2B-A-1	GUT209	01	_	UT-45L	28-002	19911019	GE -563878	RI.
RCR	B1W-02 B5. 10	2B32RECIRC-2B-A-1	GPT105	02	_	PT		19911011	GE -706820	NRI.
RCR	B1W-02 B6.180	2B32-ST-B-01	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-02	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-03	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-04	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-05	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL
RCR	B1W-02 B6.180	2B32-ST-B-06	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-07	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-08	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RCR	B1W-02 B6.180	2B32-ST-B-09	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-10	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-11	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-12	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-13	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-14	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-15	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B6.180	2B32-ST-B-16	GUT108	00	_	UT-00	026-B	19911014	GE -520392	MAINTAINED BACKWALL.
RCR	B1W-02 B7.50	2-B32-FLG-1A	C611	07	_	VT-1		19911019	NES -089567	EXAMD 8 STUDS& 16 NU
RCR	B1W-02 B7.50	2-B32-FLG-2A	C611	07	_	VT-1		19911104	CPL -029865	NI. EXAMD 8 STUDS &
RCR	B1W-02 B7.70	2-B32-FD43B	C611	07	_	VT-1		19911024	NEL -089567	EXAMD 24 STUDS,NUTS,
RCR	B1W-02 B9.11	2B32RECIRC-4-A-2	GUT102	03	_	UT-45L	002-B	19911018	GE -747078	NI. NO CW&CCW SCNS.I
RCR	B1W-02 B9.11	2B32RECIRC-6-A-2	GUT102	03	_	UT-45S	002-B	19911018	GE -747078	NI. ID GEO 360 DEG.
RCR	B1W-02 B9.11	2B32RECIRC-4-A-2	GPT100	02	_	PT		19911012	GE -706820	NI.
RCR	B1W-02 B9.11	2B32RECIRC-28-A-15	GUT102	03	_	UT-60L	009-BR	19911014	GE -520392	NI. ID GEO < REC. TO
RCR	B1W-02 B9.11	2B32RECIRC-28-A-15	GPT100	02	_	PT		19911014	GE -706820	NI. ALSO EXAMINED LO
RCR	B1W-02 B9.11	2B32RECIRC-28-A-15	GUT102	03	_	UT-45S	009-BR	19911014	GE -520392	NI. ID GEO < REC.
RCR	B1W-02 B9.11	2B32RECIRC-28-B-2	GUT208	01	_	UT-45S	009-BR	19911019	GE -722996	LIMTD UPST.W.8-1.5",
RCR	B1W-02 B9.11	2B32RECIRC-28-B-2	GPT100	02	_	PT		19911011	GE -706820	12" OF LONGSEAM ALSO

NUTECH

PRISIM

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING
OUTAGE CHECKLIST

OUTAGE : REFUEL 9 INTERVAL : 00 PERIOD : 0

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RCR	B1W-02 B9.11	2B32RECIR(2B-B-2	GUT102	03	_	UT-60L	009-BR	19911015	GE -520392	LIMTD UPST,W1.5".SE
RCR	B1W-02 B9.11	2B32FF-12-FWRRA13A	GUT208	01	_	UT-45S	114-B	19911016	GE -563878	ROOT GEO, LIMTD DUE
RCR	B1W-02 B9.11	2B32FF-12-FWRRA13A	GPT100	02	_	PT		19911016	GE -706820	NRI.
RCR	B1W-02 B9.11	2B32FF-12-FWRRA13A	GUT208	01	_	UT-60L	114-B	19911017	GE -563878	LIMTD EXAM, NON-REMB
RCR	B1W-02 B9.11	2B32FF-12-FWRRA13A	GUT102	03	_	UT-60L	114-B	19911021	GE -722996	NO EXAM UPST,SWEEPOL
RCR	B1W-02 B9.11	2B32FF-12-FWRRA13A	GUT102	03	_	UT-45S	114-B	19911021	GE -722996	NO EXAM UPST SWEEPOL
RCR	B1W-02 B9.31	2B32RECIRC-2B-A-12BC	GPT100	02	_	PT		19911016	GE -706820	NRI.
RCR	B1W-02 B9.31	2B32RECIRC-2B-A-12BC	GUT102	03	_	UT-45S	009-BR	19911012	GE -520392	NRI. NO EXAM DNST,WE
RCR	B1W-02 B9.31	2B32RECIRC-2B-A-12BC	GUT102	03	_	UT-60L	009-BR	19911012	GE -520392	NRI.NO EXM DNST,WELD
RHR	B1W-02 B9.11	2E11B7-6-B7-SWA	GUT106	02	_	UT-45S	066-B	19911018	GE -520392	NRI. ID GEO < REC.
RHR	B1W-02 B9.11	2E11B7-6-B7-SWA	GMT100	00	_	MT		19911018	GE -706820	NRI.
RHR	B1W-02 C2.21	2E11HX-2A-SWN4	GUT301	00	_	UT-45S	072-B	19911009	GE -520392	EXAMD FRM VESSEL SID
RHR	B1W-02 C2.21	2E11HX-2A-SWN4	GMT100	00	_	MT		19911009	GE -706820	NRI.
RHR	B1W-02 C2.21	2E11HX-2A-SWN4	GUT301	00	_	UT-00	072-B	19911009	GE -520392	NO EXAM NOZZLE SIDE.
RHR	B1W-02 C2.21	2E11HX-2A-SWN4	GUT301	00	_	UT-60S	072-B	19911009	GE -520392	NO EXAM NOZZLE SIDE.
RHR	B1W-02 C2.22	2E11HX-2A-N4NIR	GUT55	00	_	UT-45S	079-B	19911009	GE -520392	IG GEOMETRY INTERMIT
RHR	B1W-02 C3.10	2E11HX-2B-SUP90	GMT100	00	_	MT		19911022	GE -706820	NRI.
RHR	B1W-02 C3.10	2E11HX-2A-SUPO	GMT100	00	_	MT		19911022	GE -706820	NRI. BARED,BATCH #69
RHR	B1W-02 C3.10	2E11HX-2A-SUP90	GMT100	00	_	MT		19911010	GE -706820	RI.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RHR	B1W-02 C3.10	2E11HX-2A-SUP180	GMT100	00	_	MT		19911022	GE -706820	NRI. SUPPORT CONFIGU
RHR	B1W-02 C3.10	2E11HX-2A-SUP270	GMT100	00	_	MT		19911022	GE -706820	NRI. BARED, BATCH #8
RHR	B1W-02 C3.20	2E119-4-FW2SS399	GMT100	00	_	MT		19911008	GE -706820	NRI - LACK OF WELD M
RHR	B1W-02 C5.51	2E1114-2-SWC	GUT106	02	_	UT-00	082-B	19911002	GE -706820	NI.
RHR	B1W-02 C5.51	2E1114-2-SWC	GMT100	00	_	MT		19911002	GE -706820	NI.
RHR	B1W-02 C5.51	2E1114-2-SWC	GUT106	02	_	UT-45S	082-B	19911002	GE -706820	ID & OD GEO DNST < R
RHR	B1W-02 C5.51	2E119-4-FW11	GUT106	02	_	UT-45S	082-B	19911010	GE -706820	ID GEOMETRY < RECORD
RHR	B1W-02 C5.51	2E119-4-FW11	GUT106	02	_	UT-00	082-B	19911010	GE -706820	80% BACKWALL MAINTAI
RHR	B1W-02 C5.51	2E119-4-FW11	GMT100	00	_	MT		19911009	GE -706820	NI
RHR	B1W-02 C5.51	2E1132-113-SWF	GMT100	00	_	MT		19910926	GE -706820	NRI.
RHR	B1W-02 C5.51	2E1132-113-SWF	GUT106	02	_	UT-45S	082-B	19910926	GE -520392	ID GEOMETRY 15%-20%
RHR	B1W-02 C5.51	2E1132-113-SWF	GUT106	02	_	UT-00	082-B	19910926	GE -520392	ID GEOMETRY 15%-20%
RHR	B1W-02 C5.51	2E1158-58-FW65A	GUT106	02	_	UT-00	031-B	19910920	GE -706820	TEST AREA ADJ.TO WEL
RHR	B1W-02 C5.51	2E1147-20-FW64	GUT106	02	_	UT-45S	031-B	19910919	GE -520392	LIMITED EXAMINATION
RHR	B1W-02 C5.51	2E1147-20-FW64	GUT106	02	_	UT-00	031-B	19910919	GE -520392	LIMITED FROM 9"-15"
RHR	B1W-02 C5.51	2E1147-20-FW64	GMT100	00	_	MT		19910919	GE -706820	NRI.
RHR	B1W-02 C5.51	2E1186-73-FW116	GUT106	02	_	UT-45S	031-B	19911010	GE -706820	ID GEO < RECORDABLE.
RHR	B1W-02 C5.51	2E1186-73-FW116	GUT106	02	_	UT-00	031-B	19911010	GE -706820	80% BACKWALL MAINTAI
RHR	B1W-02 C5.51	2E1186-73-FW116	GMT100	00	_	MT		19911009	GE -706820	NI

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING
OUTAGE CHECKLIST

OUTAGE : REFUEL 9 INTERVAL : 00 PERIOD : 0

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RHR	B1W-02 C5.51	2E11104-14-FW143	C301	10	_	MT		19911111	CPLN-045333	NRI.
RHR	B1W-02 C5.51	2E11128-21-FW176A	GUT106	02	_	UT-00	030-B	19910926	GE -256527	NRI.
RHR	B1W-02 C5.51	2E11128-21-FW176A	GUT106	02	_	UT-45S	030-B	19910920	GE -706820	ID GEOMETRY BELOW RI
RHR	B1W-02 C5.51	2E1112_-21-FW176A	GMT100	00	_	MT		19910920	GE -706820	NRI.
RHR	B1W-02 D1.20	2-E11-131PG258	C613	11	_	VT-3		19910920	NES -804413	EXAMINED ATTACHMENT
RHR	B1W-02 D1.30	2-E11-132SS414	P1960A	00	_	VT-3		19910919	NES -904389	VT-3 OF PIPE LUG WEL
RPV	AVR-02 RIL054	RPV SHROUD WELDS	GE9017	00	_	VT-3		19911015	GE -524902	NRI. PM 91-043. SURF
RPV	AVR-02 RIL055	2B11-RPV-STUD-15	GUT307	00	_	UT-OUT	027-B	19911014	GE -171801	NI. EXAMINATION PERF
RPV	AVR-02 RIL055	2B11-RPV-STUD-16	GUT307	00	_	UT-OUT	027-B	19911014	GE -171801	NI. EXAMINATION PERF
RPV	AVR-02 RIL055	2B11-RPV-STUD-17	GUT307	00	_	UT-OUT	027-B	19911014	GE -171801	NI. EXAMINATION PERF
RPV	AVR-02 RIL055	2B11-RPV-STUD-18	GUT307	00	_	UT-OUT	027-B	19911014	GE -171801	NI. EXAMINATION PERF
RPV	AVR-02 RIL055	2B11-RPV-STUD-19	GUT307	00	_	UT-OUT	027-B	19911014	GE -171801	NI. EXAMINATION PERF
RPV	AVR-02 RIL059	TOP GUIDES	GE9017	00	_	VT-3		19911018	GE -667695	_____
RPV	AVR-02 SIL462	SHROUD ACCESS COVERS	GUT211	01	_	UT-60L	_____	19911020	GE -727479	NRI. EXMD 180 COVER
RPV	AVR-02 SIL462	SHROUD ACCESS COVERS	GUT211	01	_	UT-45S	_____	19911020	GE -727479	NRI. EXAMD 180 COVER
RPV	B02-02 N3.100	2B11-RPV-N4A-IRS	GUT303	00	_	UT-IR	069-B	19911001	GE -722135	NI.
RPV	B02-02 N3.100	2B11-RPV-N4A-IRS	GUT303	00	_	UT-IR	068-B	19911001	GE -722135	NI.
RPV	B02-02 N3.100	2B11-RPV-N4A-IRS	GPT101	00	_	PT		19911012	GE -921019	NI.
RPV	B02-02 N3.100	2B11-RPV-N4B-IRS	GPT101	00	_	PT		19911012	GE -921019	NI.

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RPV	B02-02 N3.100	2B11-RPV-N4B-IRS	GUT303	00	_	UT-IR	069-B	19911001	GE -722135	NI. LIMITED EXAMINAT
RPV	B02-02 N3.100	2B11-RPV-N4B-IRS	GUT303	00	_	UT-IR	068-B	19911001	GE -722135	NI.
RPV	B02-02 N3.100	2B11-RPV-N4C-IRS	GUT303	00	_	UT-IR	068-B	19911001	GE -722135	NI.
RPV	B02-02 N3.100	2B11-RPV-N4C-IRS	GPT101	00	_	PT		19911012	GE -921019	NI.
RPV	B02-02 N3.100	2B11-RPV-N4C-IRS	GUT303	00	_	UT-IR	069-B	19911001	GE -722135	NI.
RPV	B02-02 N3.100	2B11-RPV-N4D-IRS	GPT101	00	_	PT		19911012	GE -921019	NI.
RPV	B02-02 N3.100	2B11-RPV-N4D-IRS	GUT303	00	_	UT-IR	069-B	19911001	GE -722135	NI. EXAMINATION LIMI
RPV	B02-02 N3.100	2B11-RPV-N4D-IRS	GUT303	00	_	UT-IR	068-B	19911001	GE -722135	NI.
RPV	B04-02 B13.10	JET PUMP BEAMS	PT90.6	02	_	UT-00	_____	19911017	GE -667695	NRI.
RPV	PSI-02 BRCKT	2B11-RPV-INT-CSBRACKETAB	GE9017	00	_	VT-3		19911026	GE -524902	NRI. EXAMINED 12 WEL
RPV	B1W-02 B1.21T	2B11-RPV-B2	GUT300	02	_	UT-00	045-BR	19910925	GE -520392	NRI. INDICS OBSERVED
RPV	B1W-02 B1.21T	2B11-RPV-B2	GUT300	02	_	UT-60S	045-BR	19910925	GE -520392	NRI.
RPV	B1W-02 B1.21T	2B11-RPV-B2	GUT300	02	_	UT-45S	045-BR	19910925	GE -520392	NRI.
RPV	B1W-02 B1.22T	2B11-RPV-AB	GUT300	02	_	UT-00	045-BR	19910925	GE -520392	NRI. INDICS OBSERVED
RPV	B1W-02 B1.22T	2B11-RPV-AB	GUT300	02	_	UT-60S	045-BR	19910925	GE -520392	NRI.
RPV	B1W-02 B1.22T	2B11-RPV-AB	GUT300	02	_	UT-45S	045-BR	19910925	GE -520392	NRI.
RPV	B1W-02 B1.40	2B11-RPV-C2	GMT100	00	_	MT		19910925	GE -706820	NRI.
RPV	B1W-02 B1.40	2B11-RPV-C2	GUT300	02	_	UT-60S	045-BR	19910925	GE -520392	LIMITED EXAMINATION,
RPV	B1W-02 B1.40	2B11-RPV-C2	GUT300	02	_	UT-45S	045-BR	19910925	GE -520392	LIMITED EXAMINATION,

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RPV	B1W-02 B1.40	2B11-RPV-C2	GUT300	02	_	UT-00	045-BR	19910925	GE -520392	NRI. EXAM LIMTD,W 3"
RPV	B1W-02 B13.10	2B11-RPV-INTERIOR	PT90.1	09	_	VT-3		19911024	GE -667695	RI. B1 NCS,B2 FW SPA
RPV	B1W-02 B13.10	2B11-RPV-INTERIOR	PT90.5	06	_	VT-3		19911105	GE -667695	RI. NO NEW INDICATIO
RPV	B1W-02 B8.10	2B11-RPV-SKIRT120-240	GUT310	00	_	UT-60S	045-BR	19911018	GE -520392	INTERMT ID GEO 50% D
RPV	B1W-02 B8.10	2B11-RPV-SKIRT120-240	GUT310	00	_	UT-45S	045-BR	19911018	GE -520392	ID GEO < REC. NRI.
RPV	B1W-02 B8.10	2B11-RPV-SKIRT120-240	GUT310	00	_	UT-00	045-BR	19911018	GE -706820	NRI.
RPV	B1W-02 B8.10	2B11-RPV-SKIRT120-240	GMT100	00	_	MT		19911018	GE -706[illegible]	NRI.
RPV	B1W-02 B9.40	2B21707-1.5-FW1040	GPT100	02	_	PT		19911014	GE -[illegible]	NI
RWC	B01-02 B5.130	2G3114-1-14-FW1949A	GUT102	03	_	UT-45L	120-B	19911008	GE -520392	NO CW OR CCW SCANS.
RWC	B01-02 B5.130	2G3114-1-14-FW1949A	GUT102	03	_	UT-45S	120-B	19911008	GE -520392	NI
RWC	B01-02 B9.11	2G3114-1-14-FW1954A	GUT102	03	_	UT-45L	120-B	19911008	GE -520392	NO CW OR CCW SCANS.
RWC	B01-02 B9.11	2G3114-1-14-FW1954A	GUT102	03	_	UT-45S	120-B	19911008	GE -520392	NI
RWC	B01-02 NCPIPE	2-G31-2106	GUT102	03	_	UT-45L	120-B	19911011	GE -706820	NO EXAM UPST. FLANGE
RWC	B01-02 NCPIPE	2-G31-2106	GUT102	03	_	UT-45S	120-B	19911011	GE -706820	NO EXAM UPST.FLANGE.
RWC	B01-02 NCPIPE	2-G31-2039	GUT102	03	_	UT-45L	120-B	19911016	GE -520392	ID GEO < RECORDABLE.
RWC	B01-02 NCPIPE	2-G31-2039	GUT102	03	_	UT-45S	120-B	19911016	GE -520392	ID GEO < RECORDABLE.
RWC	B01-02 NCPIPE	2-G31-2054	GUT102	03	_	UT-45L	120-B	19911016	GE -520392	ID GEO < RECORDABLE.
RWC	B01-02 NCPIPE	2-G31-2054	GUT102	03	_	UT-45S	120-B	19911016	GE -520392	ID GEO < RECORDABLE.
RWC	PSI-02 B9.40	2G31FF-16-FW2199	C201	14	_	PT		19911008	CPL1-509779	NI

SYSTEM	ITEM NUMBER	COMPONENT NUMBER	NDE PROC	NDE REV	NDE CHG	EXAM TYPE	CALSTD	SIGN-OFF DATE	EXAMINER	COMMENTS
RWC	PSI-02 B9.40	2G31AV3-16-FW2200	C201	14	_	PT		19911016	NES -481186	NRI.
RWC	PSI-02 B9.40	2G31FF-16-FW2192	C201	14	_	PT		19911016	NES -481186	NRI.
RWC	PSI-02 B9.40	2G31FF-16-FW2191	C201	14	_	PT		19911008	CPL1-509779	NI.
RWC	PSI-02 B9.40	2G31FF-16-FW2190	C201	14	_	PT		19911008	CPL1-509779	NI
RWC	PSI-02 B9.40	2G31FF-16-FW2188	C201	14	_	PT		19911008	CPL1-509779	NI
RWC	PSI-02 B9.40	2G31FF-16-FW2201	C201	14	_	PT		19911008	CPL1-509779	NI
RWC	PSI-02 B9.40	2G31FF-16-FW2189	C201	14	_	PT		19911008	CPL1-509779	NI
RWC	PSI-02 B9.40	2G31FF-16-FW2193	C201	14	_	PT		19911008	CPL1-509779	NI
RWC	PSI-02 B9.40	2G31FF-16-FW2194	C201	14	_	PT		19911008	CPL1-509779	NI
RWC	B1W-02 B9.40	2G31B1-16-SW5	GPT100	02	_	PT		19911010	GE -706820	NI.
SW	B1W-02 D1.20	2-SW-104PG133	C613	11	_	VT-3		19910928	NES -481186	ALL WELDS PAINTED. N
SW	B1W-02 D1.20	2-SW-103PG119	C613	11	_	VT-3		19910928	NES -904389	NI.
SW	B1W-02 D1.20	2-SW-PS2186	C613	11	_	VT-3		19911007	NES -481186	NI.

9.2 IWF AND TECHNICAL SPECIFICATION SNUBBER INSPECTION CHECKLISTS

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Component Number	Exam Req	Agency	Examiner	Credit	Exam Date	NDE Procedure	Results	BSEP No.	Ver Number	Trouble Ticket/ WO
2-B21-44PG152	81W-02	NES	481186	Y	09/16/91	P91052	PASS	N/A	2-91-8021	
2-BSEP-12-L	81W-02	NES	886094	Y	10/01/91	P91052	PASS	N/A	2-91-8240	
2-BSEP-13A-SP-40	81W-02	CPL1	218193	Y	10/01/91	P91052	PASS	N/A	2-91-8241	
2-BSEP-10-5	81W-02	CPL1	866695	Y	10/01/91	P91052	COND	N/A	2-91-8238	
	PSI-02	NES	646468	Y	11/25/91	P91052	PASS	N/A	2-91-8789	91-AUTW1
2-BSEP-10-8	81W-02	CPL1	866695	Y	10/24/91	P91052	PASS	N/A	2-91-8605	
2-BSEP-12-K	81W-02	NES	967162	Y	10/01/91	P91052	PASS	N/A	2-91-8239	
2-E21-3CH45	81W-02	NES	089567	Y	09/22/91	P91052	PASS	N/A	2-91-8158	
2-E21-7VH44	81W-02	CPL1	928053	Y	10/09/91	P91052	PASS	N/A	2-91-8311	
2-X-16B	81W-02	CPL1	866695	Y	10/09/91	P91052	COND	N/A	2-91-8314	
	PSI-02	NES	904389	Y	11/11/91	P91052	PASS	N/A	2-91-8727	91-ATLE1
2-FW-9VS43	81W-02	CPL1	029865	Y	09/17/91	P91052	PASS	N/A	2-91-8043	
2-B21-5CH19	81W-02	CPL1	866695	Y	09/18/91	P91052	COND	N/A	2-91-8027	91-ARTF1
	PSI-02	CPL1	784263	Y	10/18/91	P91052	PASS	N/A	2-91-8551	
2-B21-6CH22	81W-02	CPL1	866695	Y	09/18/91	P91052	PASS	N/A	2-91-8028	
2-FW-10VS47	81W-02	CPL1	029865	Y	09/18/91	P91052	PASS	N/A	2-91-8044	
2-FW-8VH23	81W-02	CPL1	866695	Y	12/04/91	P91052	PASS	N/A	2-91-8001	
2-FW-8VH25	81W-02	CPL1	866695	Y	12/03/91	P91052	COND	N/A	2-91-8798	
	PSI-02	CPL1	920853	Y	12/07/91	P91052	PASS	N/A	2-91-8802	91/AWPL1
2-FW-8VH32	81W-02	CPL1	029865	Y	09/17/91	P91052	PASS	N/A	2-91-8042	
2-E41-2PG2	S81-02	CPL1	866695	Y	09/13/91	P91052	PASS	N/A	2-91-7942	
2-E41-3PG61	81W-02	CPL1	963463	Y	09/13/91	P91052	PASS	N/A	2-91-7948	

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2-E41-4CH48	81W-02	CPL1	020865	Y	10/08/91	P91052	PASS	N/A	2-91-8318	
	PSI-02	NES	481186	Y	10/30/91	P91052	PASS	N/A	2-91-8676	
2-E41-60FH56	81W-02	CPL1	963463	Y	09/13/91	P91052	PASS	N/A	2-91-7946	
	PSI-02	CPL1	029865	Y	10/10/91	P91052	PASS	N/A	2-91-8344	PM 89-106
2-E41-60FH60	S81-02	CPL1	866695	Y	09/13/91	P91052	PASS	N/A	2-91-7947	
2-E41-60FH8	81W-02	CPL1	963463	Y	09/13/91	P91052	COND	N/A	2-91-7943	
2-E41-60VH53	81W-02	CPL1	963463	Y	09/13/91	P91052	PASS	N/A	2-91-7945	
2-E41-61VS74	81W-02	CPL1	866695	Y	09/13/91	P91052	PASS	N/A	2-91-7949	
2-E41-6VH39	S81-02	CPL1	866695	Y	09/13/91	P91052	PASS	N/A	2-91-7944	
2-MS-4FH34	81W-02	NES	068554	Y	09/27/91	P91052	PASS	N/A	2-91-8217	
2-PSN-B5VH52	81W-02	NES	906493	Y	10/10/91	P91052	COND	N/A	2-91-8495	91-ASTF1
	PSI-02	NES	967162	Y	11/18/91	P91052	PASS	N/A	2-91-8770	
2-MS-1VH7	81W-02	CPL1	866695	Y	12/09/91	P91052	PASS	N/A	2-91-8806	
2-MS-1VH8	81W-02	NES	906493	Y	11/26/91	P91052	PASS	N/A	2-91-8797	
2-PSN-C5VH66	81W-02	NES	089567	Y	10/10/91	P91052	COND	N/A	2-91-8404	91-ATHJ1
	PSI-02	NES	904389	Y	11/11/91	P91052	PASS	N/A	2-91-8728	91-ATHJ1
2-BP-1A	81W-02	NES	089567	Y	09/19/91	P91052	PASS	N\A	2-91-8288	
2-BP-2A	81W-02	NES	089567	Y	09/19/91	P91052	PASS	N/A	2-91-8123	
2-MS-10VH40	81W-02	CPL1	218193	Y	12/06/91	P91052	COND	N/A	2-91-8805	
	PSI-02	CPL1	866695	Y	12/07/91	P91052	PASS	N/A	2-91-8803	91-AWUZ1
2-MS-10VH42	81W-02	NES	906493	Y	11/26/91	P91052	PASS	N/A	2-91-8795	
2-MS-2VH14	81W-02	NES	906493	Y	11/26/91	P91052	PASS	N/A	2-91-8793	

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Component Number	Exam Req	Agency	Examiner	Credit	Exam Date	NDE Procedure	Results	BSEP No.	Ver Number	Trouble Ticket/ WO
2-B21-11PG342	81W-02	NES	082699	Y	10/11/91	P91052	PASS	N/A	2-91-8396	
2-B21-18VH210	81W-02	NES	068554	Y	10/11/91	P91052	PASS	N/A	2-91-8351	
2-B21-19VH191	81W-02	CPL1	928053	Y	10/17/91	P91052	PASS	N/A	2-91-8537	
2-B21-26PG207	81W-02	NES	082699	Y	10/12/91	P91052	PASS	N/A	2-91-8416	
2-B21-33VH247	81W-02	CPL1	029865	Y	10/12/91	P91052	PASS	N/A	2-91-8419	
2-B21-58VH278	81W-02	CPL1	866695	Y	10/13/91	P91052	PASS	N/A	2-91-8432	
2-B21-59VS328	81W-02	NES	068554	Y	10/12/91	P91052	PASS	N/A	2-91-8441	
2-E51-4CH41	81W-02	CPL1	784263	Y	10/12/91	P91052	PASS	N/A	2-91-8483	
2-E51-4PG67	81W-02	NES	804413	Y	10/12/91	P91052	COND	N/A	2-91-8489	91-ASTE1
	PSI-02	NES	967162	Y	11/18/91	P91052	PASS	N/A	2-91-8769	
2-E51-4VH42	81W-02	CPL1	784263	Y	10/12/91	P91052	PASS	N/A	2-91-8486	
2-B32-26PG228	81W-02	NES	089567	Y	10/17/91	P91052	PASS	N/A	2-91-8549	
2-B32-HB6	81W-02	NES	082699	Y	11/21/91	P91052	COND	N/A	2-91-8785	
	PSI-02	NES	068554	Y	11/26/91	P91052	PASS	N/A	2-91-8796	
2-B32-HB9	81W-02	CPL1	866696	Y	10/14/91	P91052	PASS	NONE	2-91-8462	
2-B32-HA1	81W-02	NES	082699	Y	10/14/91	P91052	PASS	N/A	2-91-8451	
2-X-17	81W-02	NES	904389	Y	09/19/91	P91052	PASS	N/A	2-91-8170	
2-E11-126PG1001	81W-02	CPL1	029865	Y	10/08/91	P91052	PASS	N/A	2-91-8279	
2-E11-127PG1007	81W-02	CPL1	029865	Y	10/08/91	P91052	PASS	N/A	2-91-8280	
2-E11-127PG1018	81W-02	CPL1	029865	Y	10/08/91	P91052	PASS	N/A	2-91-8281	
2-E11-127PG244	81W-02	NES	082699	Y	10/08/91	P91052	PASS	N/A	2-91-8266	

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2-E11-128PG600	81W-02	NES	082699	Y	10/08/91	P91052	COND	N/A	2-91-8274	91-ASAQ1
	PSI-02	NES	906493	Y	11/18/91	P91052	PASS	N/A	2-91-8768	91-ASHQ1
2-E11-128PG602	S81-02	NES	082699	Y	10/08/91	P91052	PASS	N/A	2-91-8275	
2-E11-128PG604	S81-02	CPL1	029865	Y	10/08/91	P91052	PASS	N/A	2-91-8276	
2-E11-128PG607	81W-02	CPL1	029865	Y	10/08/91	P91052	PASS	N/A	2-91-8277	
2-E11-128PG610	81W-02	NES	082699	Y	10/08/91	P91052	PASS	N/A	2-91-8278	
2-E11-46PG6	S81-02	CPL1	784263	Y	11/20/91	P91052	PASS	N/A	2-91-8775	
2-E11-47PG513	S81-02	NES	082699	Y	10/08/91	P91052	PASS	N/A	2-91-8273	
2-E11-68FS60	81W-02	CPL1	866695	Y	10/07/91	P91052	PASS	N/A	2-91-8264	
2-E11-84VH310	81W-02	CPL1	218193	Y	10/11/91	P91052	PASS	N/A	2-91-8477	
2-E11-9FS394	81W-02	CPL1	866695	Y	10/07/91	P91052	PASS	N/A	2-91-8265	
2-E11-109PG162	81W-02	NES	967162	Y	09/15/91	P91052	PASS	N/A	2-91-7995	
2-E11-109VS163	81W-02	NES	967612	Y	09/15/91	P91052	PASS	N/A	2-91-7996	
2-E11-131PG258	81W-02	NES	804413	Y	09/20/91	P91052	PASS	N/A	2-91-8126	
2-E11-131PG364	S81-02	NES	804413	Y	09/19/91	P91052	PASS	N/A	2-91-8121	
2-E11-132FH265	81W-02	CPL1	928053	Y	09/19/91	P91052	PASS	N/A	2-91-8120	
2-E11-132VS262	81W-02	CPL1	928053	Y	09/19/91	P91052	PASS	N/A	2-91-8127	
2-E11-21PG74	81W-02	NES	089567	Y	09/15/91	P91052	PASS	N/A	2-91-7993	
2-E11-21VH300	81W-02	CPL1	866695	Y	09/15/91	P91052	PASS	N/A	2-91-7998	
2-E11-49PG238	S81-02	NES	068554	Y	09/15/91	P91052	PASS	N/A	2-91-7997	

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2-E11-58VH30	81W-02	CPL1	866695	Y	09/15/91	P91052	PASS	N/A	2-91-7991	
2-E11-58VH34	81W-02	CPL1	866695	Y	09/15/91	P91052	PASS	N/A	2-91-7992	
2-E11-87VH319	81W-02	CPL1	784263	Y	10/11/91	P91052	PASS	N/A	2-91-8483	
2-E11-95PG24	S81-02	NES	804413	Y	09/15/91	P91052	PASS	N/A	2-91-7990	
2-E11-2PG134	81W-02	NES	804413	Y	10/04/91	P91052	PASS	N/A	2-91-8254	
2-E11-2VH139	81W-02	NES	967162	Y	09/15/91	P91052	PASS	N/A	2-91-7994	
2-E11-4FS140	81W-02	NES	804413	Y	10/19/91	P91052	PASS	N/A	2-91-8340	
2-E11-6OPG439	81W-02	NES	804413	Y	10/04/91	P91052	PASS	N/A	2-91-8258	
2-E11-6FS155	81W-02	NES	804413	Y	10/05/91	P91052	PASS	N/A	2-91-8256	
2-G31-16PG224	81W-02	NES	804413	Y	10/14/91	P91052	PASS	N/A	2-91-8513	
2-SW-110FS485	81W-02	NES	068554	Y	10/25/91	P91052	PASS	N/A	2-91-8632	
2-SW-110PG477	81W-02	NES	646468	Y	10/25/91	P91052	PASS	N/A	2-91-8630	
2-SW-110PG481	81W-02	NES	068554	Y	10/25/91	P91052	COND	N/A	2-91-8631	
	PSI-02	CPL1	963463	Y	12/04/91	P91052	PASS	N/A	2-91-8800	
2-SW-114PG197	81W-02	CPL1	928053	Y	10/25/91	P91052	PASS	N/A	2-91-8626	
2-SW-133FH27	81W-02	NES	646468	Y	10/25/91	P91052	PASS	N/A	2-91-8625	
2-SW-133FS468	81W-02	NES	068554	Y	10/25/91	P91052	PASS	N/A	2-91-8628	
2-SW-133PG464	81W-02	NES	646468	Y	10/25/91	P91052	PASS	N/A	2-91-8627	
2-SW-133PG472	81W-02	CPL1	928053	Y	10/25/91	P91052	PASS	N/A	2-91-8629	
2-SW-1PG413	81W-02	NES	082699	Y	10/25/91	P91052	PASS	N/A	2-91-8633	

Brunswick Steam Electric Plant
Unit I
Refuel Outage 2-2-09
PT 91.0.52
Section XI Supports

Component Number	Exam Req	Agency	Examiner	Credit	Exam Date	NDE Procedure	Results	BSEP No.	Ver Number	Trouble Ticket/ WO
2-SW-31PG514	81W-02	NES	068554	Y	10/26/91	P91052	PASS	N/A	2-91-8654	
2-SW-31PG587	81W-02	NES	068554	Y	10/26/91	P91052	PASS	N/A	2-91-8655	
2-SW-31PG597	81W-02	NES	068554	Y	10/26/91	P91052	PASS	N/A	2-91-8657	
2-SW-4PG416	81W-02	NES	904389	Y	09/28/91	P91052	PASS	N/A	2-91-8199	
2-SW-PS4940	81W-02	NES	082669	Y	10/25/91	P91052	PASS	N/A	2-91-8613	
2-SW-103PG119	81W-02	NES	904389	Y	09/28/91	P91052	COND	N/A	2-91-8227	91-ARMS1
	PSI-02	NES	904389	Y	11/18/91	P91052	PASS	N/A	2-91-8771	PM 89-106
2-SW-104PG133	81W-02	NES	481186	Y	09/28/91	P91052	PASS	N/A	2-91-8237	
2-SW-123PG733	81W-02	NES	068554	Y	09/28/91	P91052	PASS	N/A	2-91-8201	
2-SW-123PG737	81W-02	NES	089567	Y	10/24/91	P91052	PASS	N/A	2-91-8634	
2-SW-123PG753	81W-02	NES	068554	Y	09/28/91	P91052	PASS	N/A	2-91-8200	
2-SW-127PG12	81W-02	NES	906493	Y	09/28/91	P91052	PASS	N/A	2-91-8195	
2-SW-127PG744	81W-02	NES	068554	Y	09/28/91	P91052	PASS	N/A	2-91-8202	
2-SW-127PG748	81W-02	NES	089567	Y	10/24/91	P91052	COND	N/A	2-91-8635	
	PSI-02	CPL1	928053	Y	11/08/91	P91052	PASS	N/A	2-91-8725	91-ATCZ1
2-SW-127PG750	81W-02	NES	068554	Y	09/28/91	P91052	PASS	N/A	2-91-8203	
2-SW-173PG402	S81-02	NES	906493	Y	09/28/91	P91052	PASS	N/A	2-91-8228	
2-SW-31PG591	81W-02	NES	068554	Y	10/26/91	P91052	PASS	N/A	2-91-8656	
2-SW-PS2186	81W-02	NES	481186	Y	10/07/91	P91052	PASS	N/A	2-91-8284	
2-SW-PS2189	81W-02	NES	906493	Y	10/07/91	P91052	PASS	N/A	2-91-8285	
2-SW-PS2190	81W-02	NES	481186	Y	10/07/91	P91052	PASS	N/A	2-91-8286	

Brunswick Steam Electric Plant

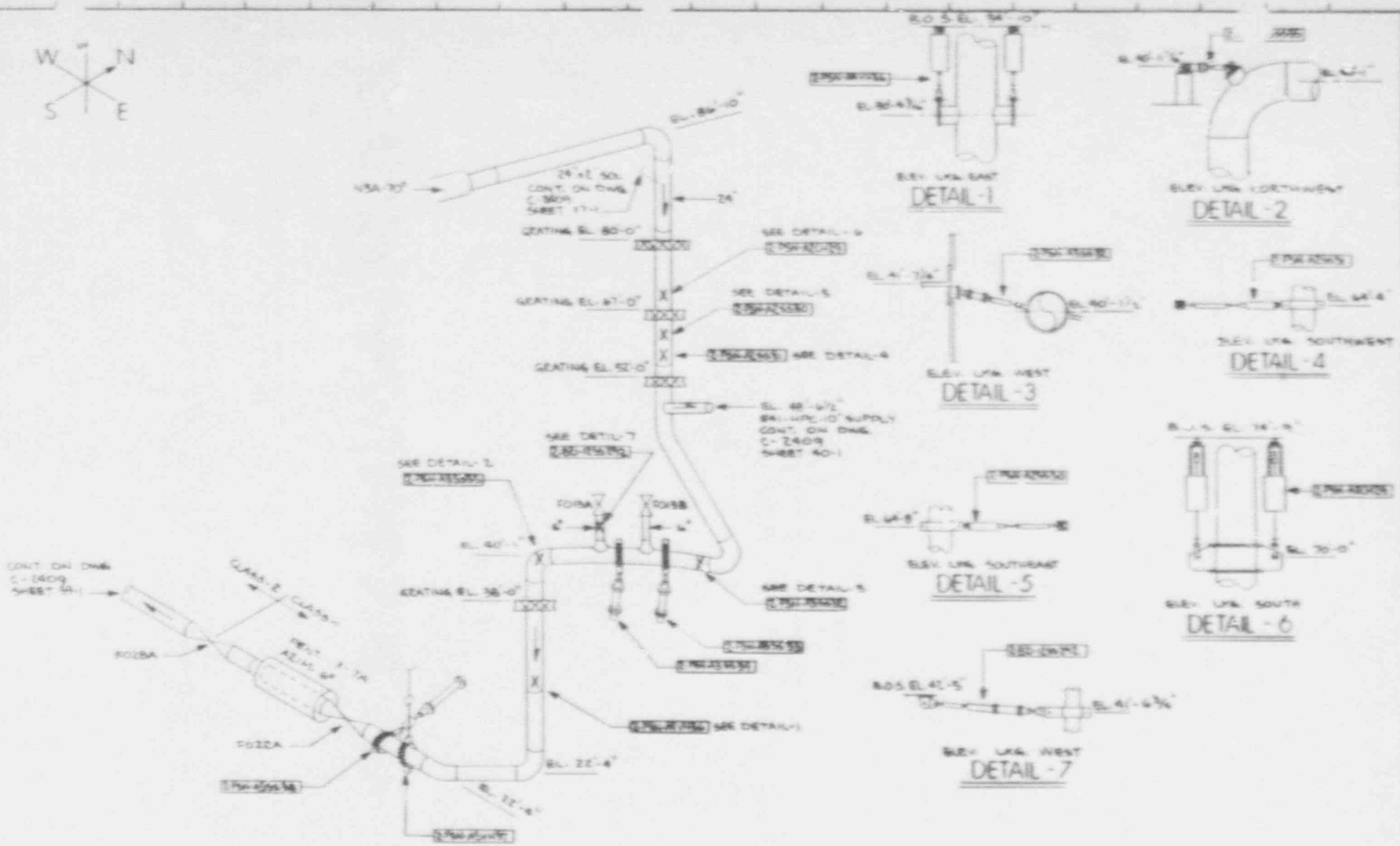
Unit I

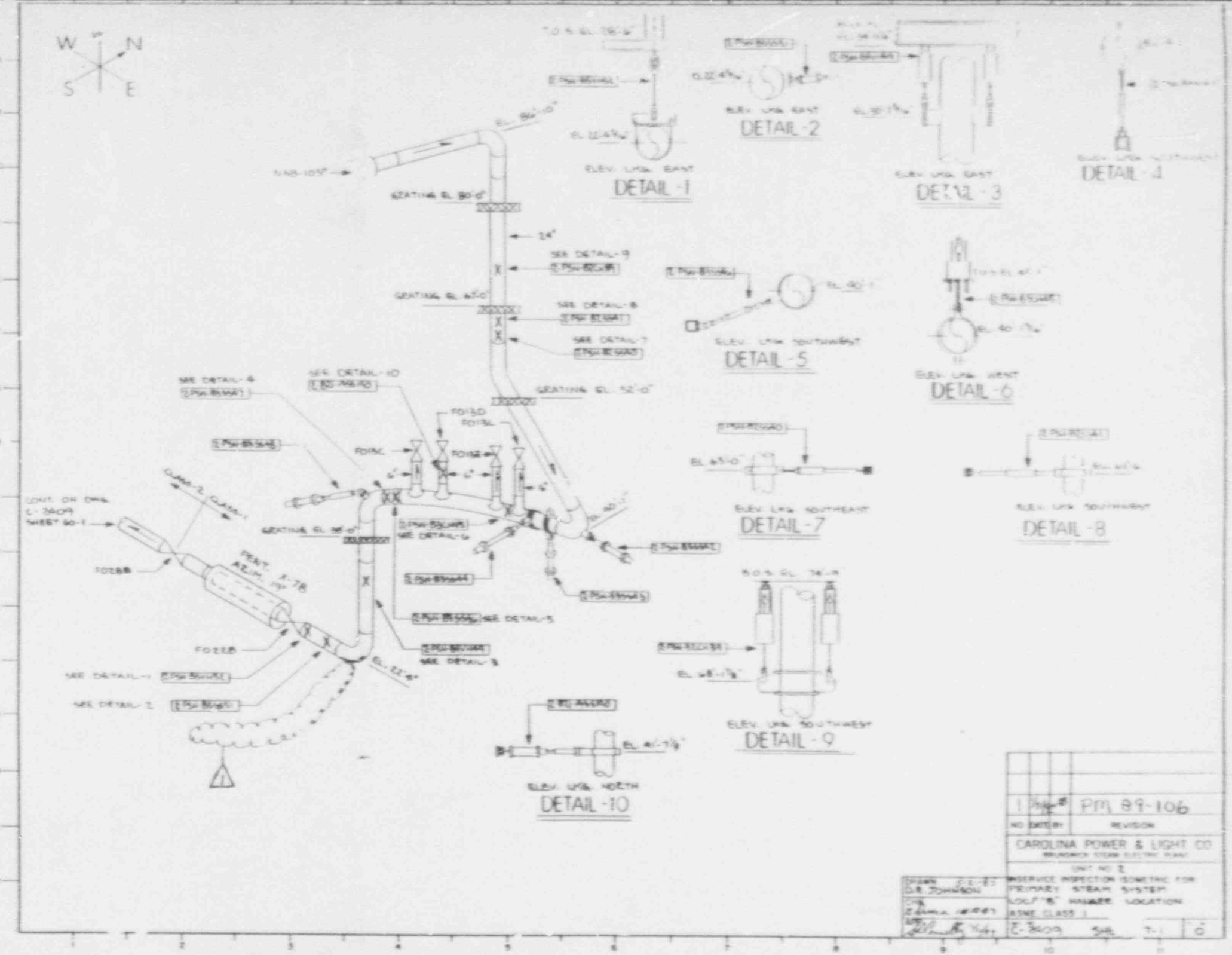
Refuel Outage 2-2-09
PT 91.0.52
Section XI Supports

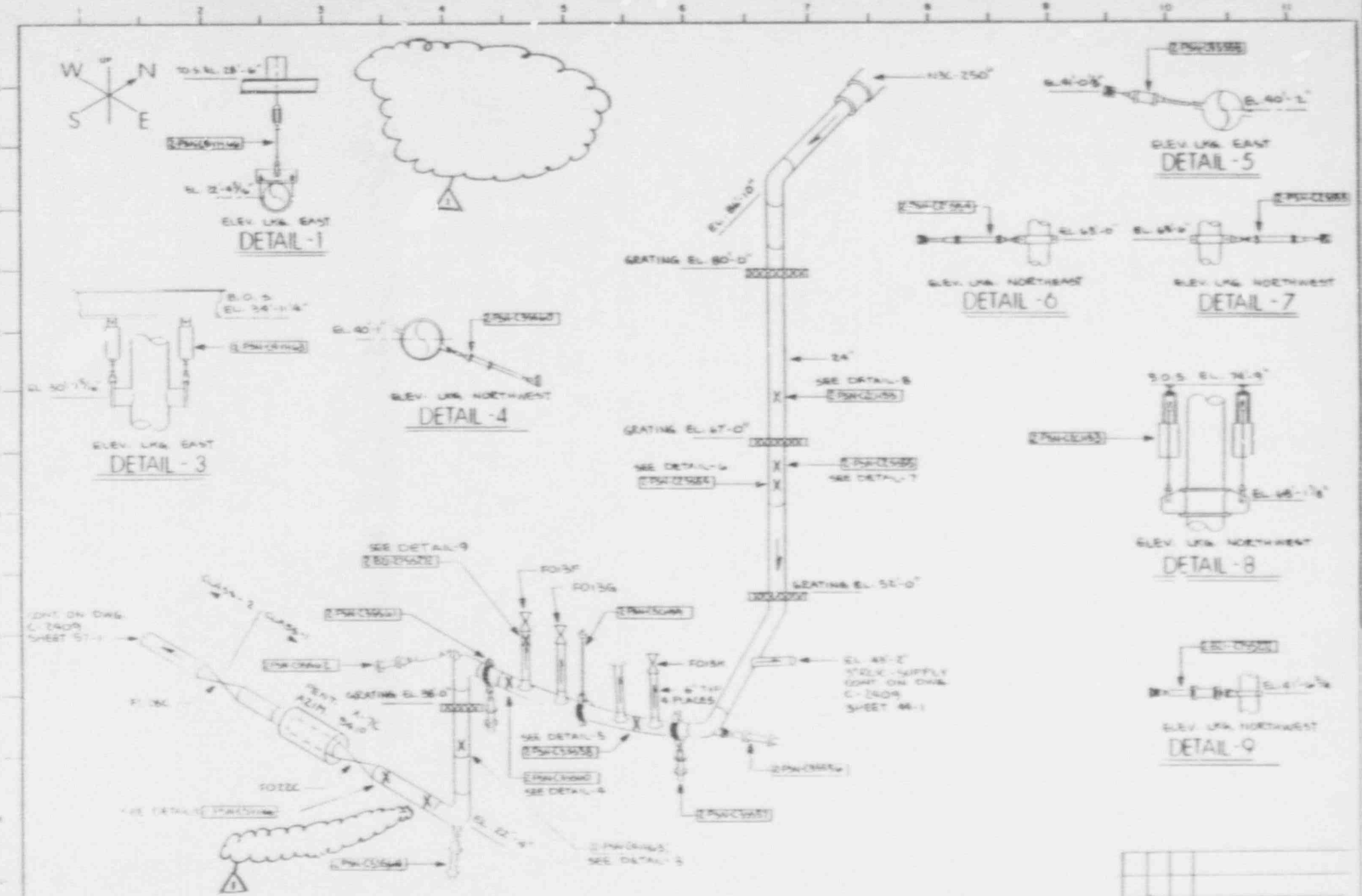
Component Number	Exam Req	Agency	Examiner	Credit	Exam Date	NDE Procedure	Results	BSEP No.	VEP Number	Trouble Ticket/WO
2-SW-PS2212A	81W-02	NES	906495	Y	11/24/91	PS1052	PASS	N/A	2-91-8787	
2-SW-PS2212B	81W-02	NES	089567	Y	10/04/91	PS1052	PASS	N/A	2-91-8261	
2-SW-PS2230A	81W-02	NES	906433	Y	10/07/91	P91052	PASS	N/A	2-91-8287	
2-SW-PS4083	81W-02	CPL1	784263	Y	10/04/91	P91052	PASS	N/A	2-91-8262	
2-E41-2VH1	81W-02	CPL1	218193	Y	04/18/91	P91052	PASS	N/A	2-91-7886	
2-E41-59PG25	81W-02	CPL1	089567	Y	08/06/90	P91052	PASS	N/A	2-90-6637	
2-E11-20FS27	81W-02	CPL1	218193	Y	07/31/91	P91052	PASS	N/A	2-91-7908	
2-B21-11PG222	81W-02	NES	082699	Y	10/11/91	P91052	PASS	N/A	2-91-8386	

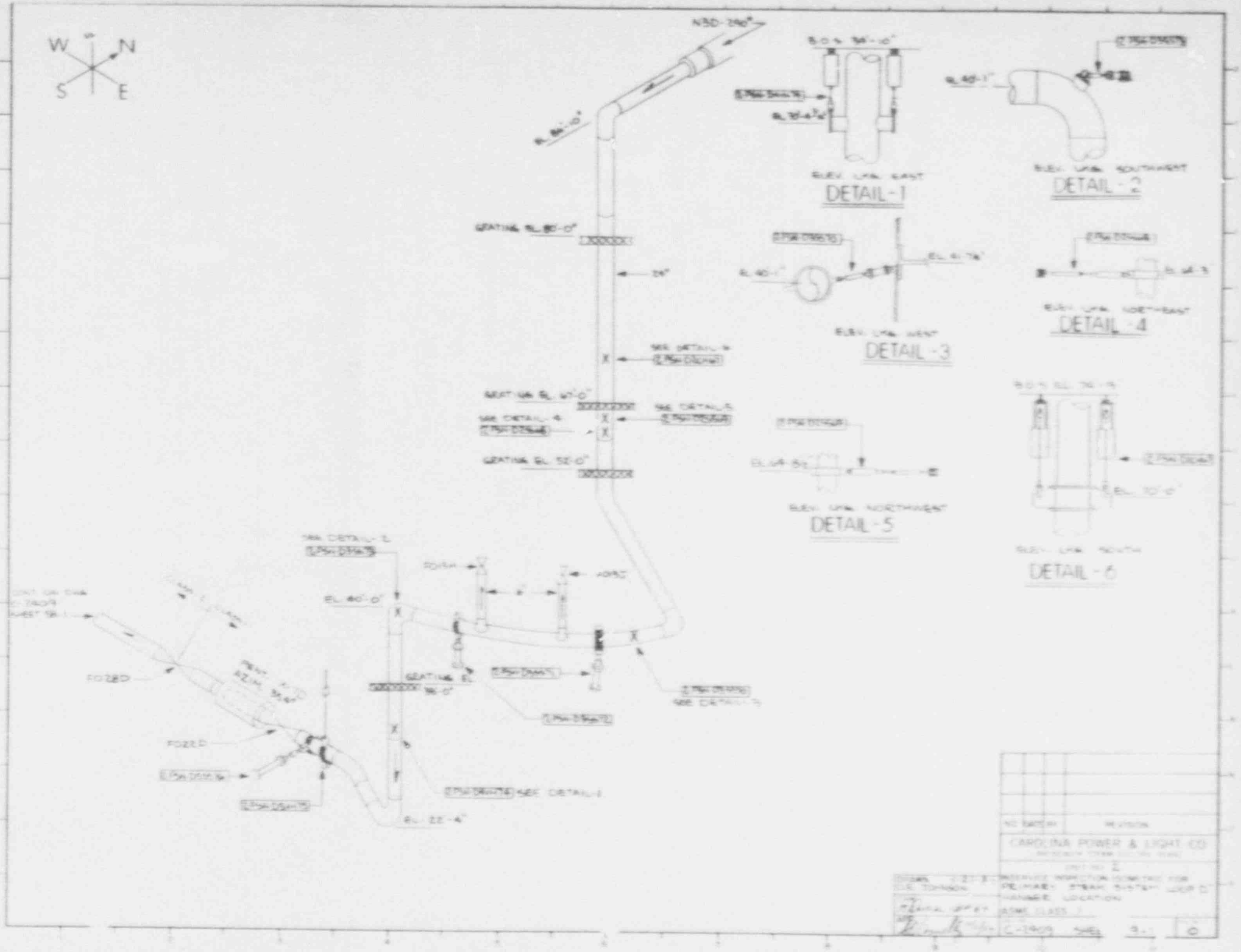
SECTION 10.0

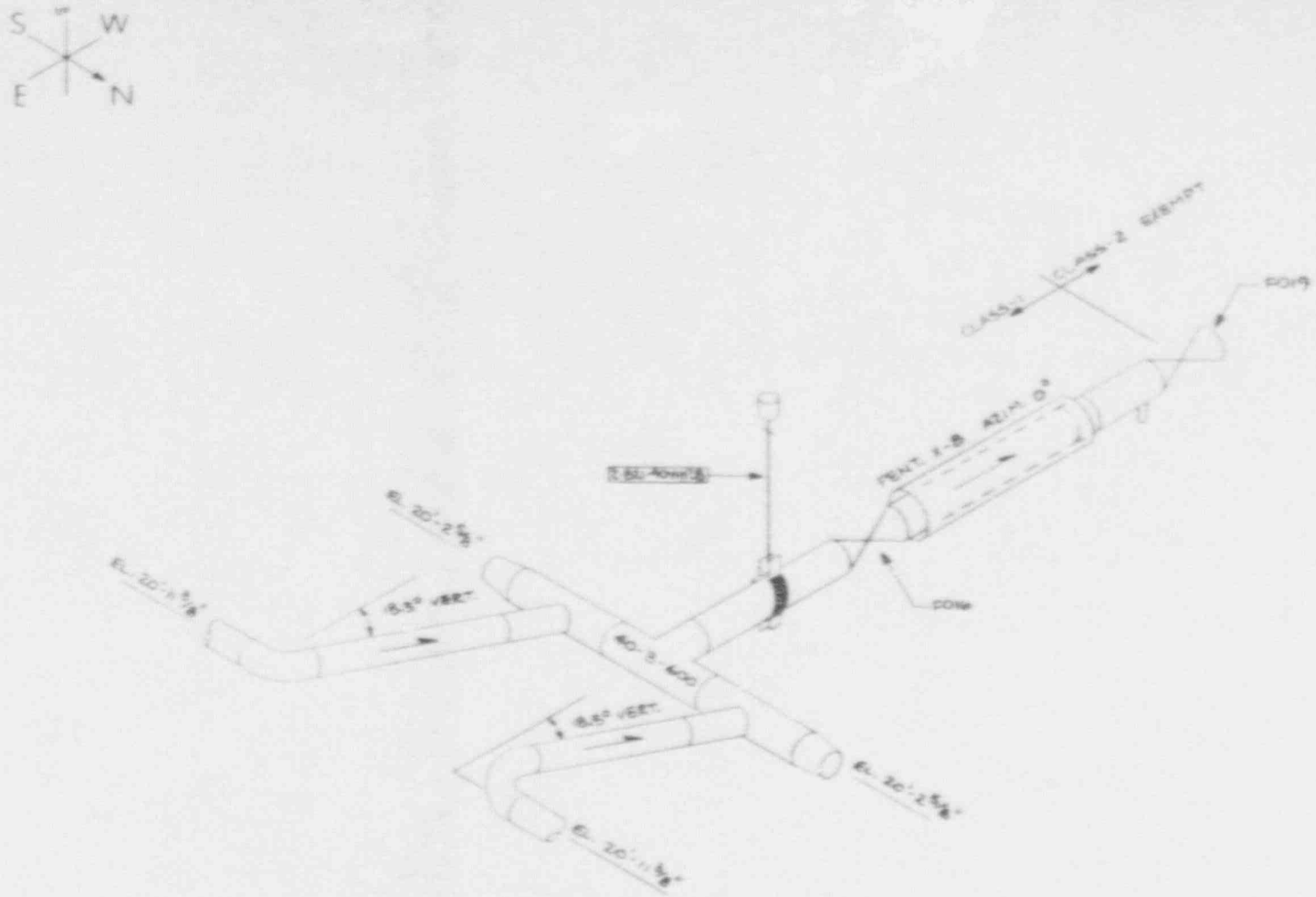
ISOMETRIC DRAWINGS


W
N
S
E
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
DETAIL-7
GRATING EL. 80'-0"
GRATING EL. 67'-0"
GRATING EL. 52'-0"
GRATING EL. 38'-0"
SEE DETAIL-4
SEE DETAIL-5
SEE DETAIL-6
SEE DETAIL-7
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
CLASS-2
CLASS-1
FO22A
FO22B
EL. 22'-4"
CAROLINA POWER & LIGHT CO.
CLASS 1


W
N
S
E
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
DETAIL-7
DETAIL-8
DETAIL-9
DETAIL-10
ELEV. LKG. EAST
ELEV. LKG. SOUTHWEST
ELEV. LKG. WEST
ELEV. LKG. SOUTHEAST
ELEV. LKG. NORTH
GRATING EL. 80'-0"
GRATING EL. 65'-0"
GRATING EL. 52'-0"
GRATING EL. 36'-0"
SEE DETAIL-9
SEE DETAIL-8
SEE DETAIL-7
SEE DETAIL-10
SEE DETAIL-4
SEE DETAIL-6
SEE DETAIL-5
SEE DETAIL-3
SEE DETAIL-1
SEE DETAIL-2
CONT. ON DWG. C-2409 SHEET 60-1
F028B
F022B
F013D
F013L
F014C
F016E
PEN. 1-78 AZIM. 174°
PM 89-106
REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM
LOOP "B" HANGER LOCATION
ASME CLASS 1
D.R. JOHNSON
C-2409
SHE


W
N
S
E
ELEV. LKG. EAST
DETAIL-1
ELEV. LKG. EAST
DETAIL-3
ELEV. LKG. NORTHWEST
DETAIL-4
GRATING EL. 80'-0"
GRATING EL. 67'-0"
GRATING EL. 52'-0"
GRATING EL. 36'-0"
SEE DETAIL-8
SEE DETAIL-6
SEE DETAIL-7
SEE DETAIL-9
SEE DETAIL-5
SEE DETAIL-4
SEE DETAIL-3
ELEV. LKG. EAST
DETAIL-5
ELEV. LKG. NORTHEAST
DETAIL-6
ELEV. LKG. NORTHWEST
DETAIL-7
ELEV. LKG. NORTHWEST
DETAIL-8
ELEV. LKG. NORTHWEST
DETAIL-9
CONT. ON DWG. C-2409 SHEET 97-1
CONT. ON DWG. C-2409 SHEET 96-1
4 PLACES
PM 88-018
CAROLINA POWER & LIGHT CO
SHEET NO. 2
INSERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM LOOP C HANGER LOCATION
ASME CLASS 1
D.E. JOHNSON
C-2409
B-1


W
N
S
E
N30-240°
GRATING EL. 80'-0"
24"
SEE DETAIL-4
WEST LINE EL. 67'-0"
SEE DETAIL-5
SEE DETAIL-4
GRATING EL. 52'-0"
SEE DETAIL-2
EL. 60'-0"
FOZED
GRATING EL. 36'-0"
SEE DETAIL-1
EL. 22'-4"
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
DOME CLASS 1
C-2409
SHEET
REVISION
0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

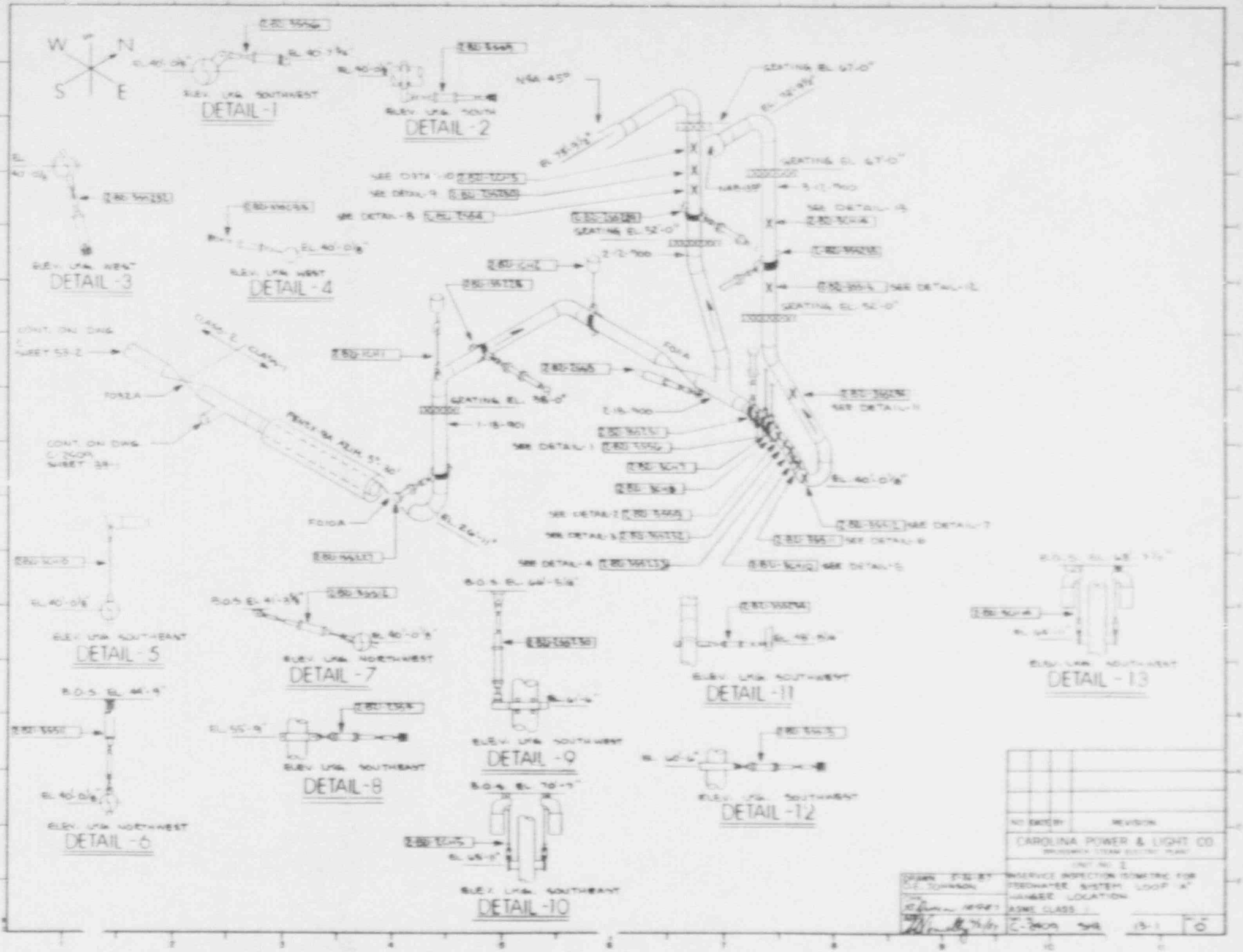
UNIT NO. 2

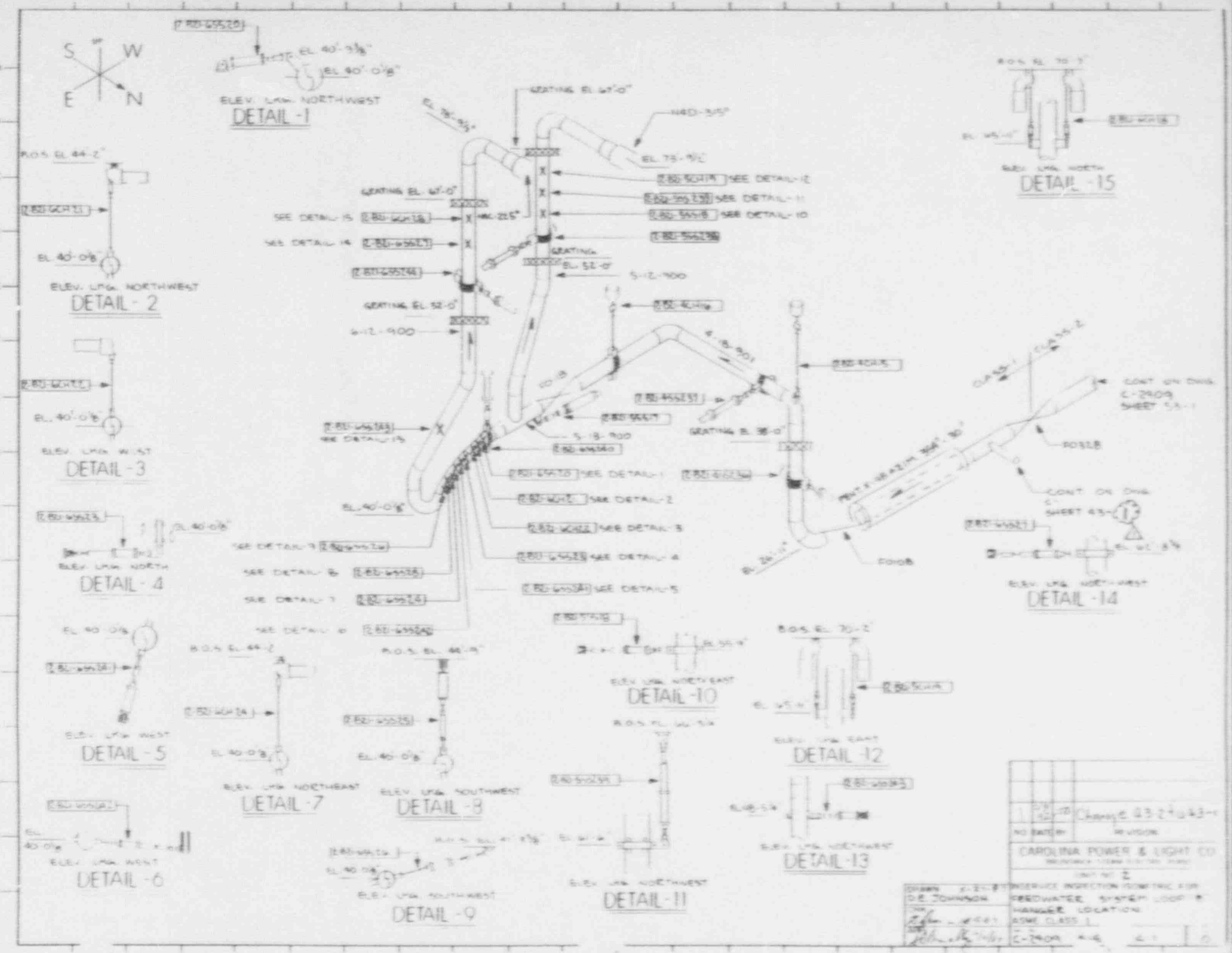
C.E. JOHNSON

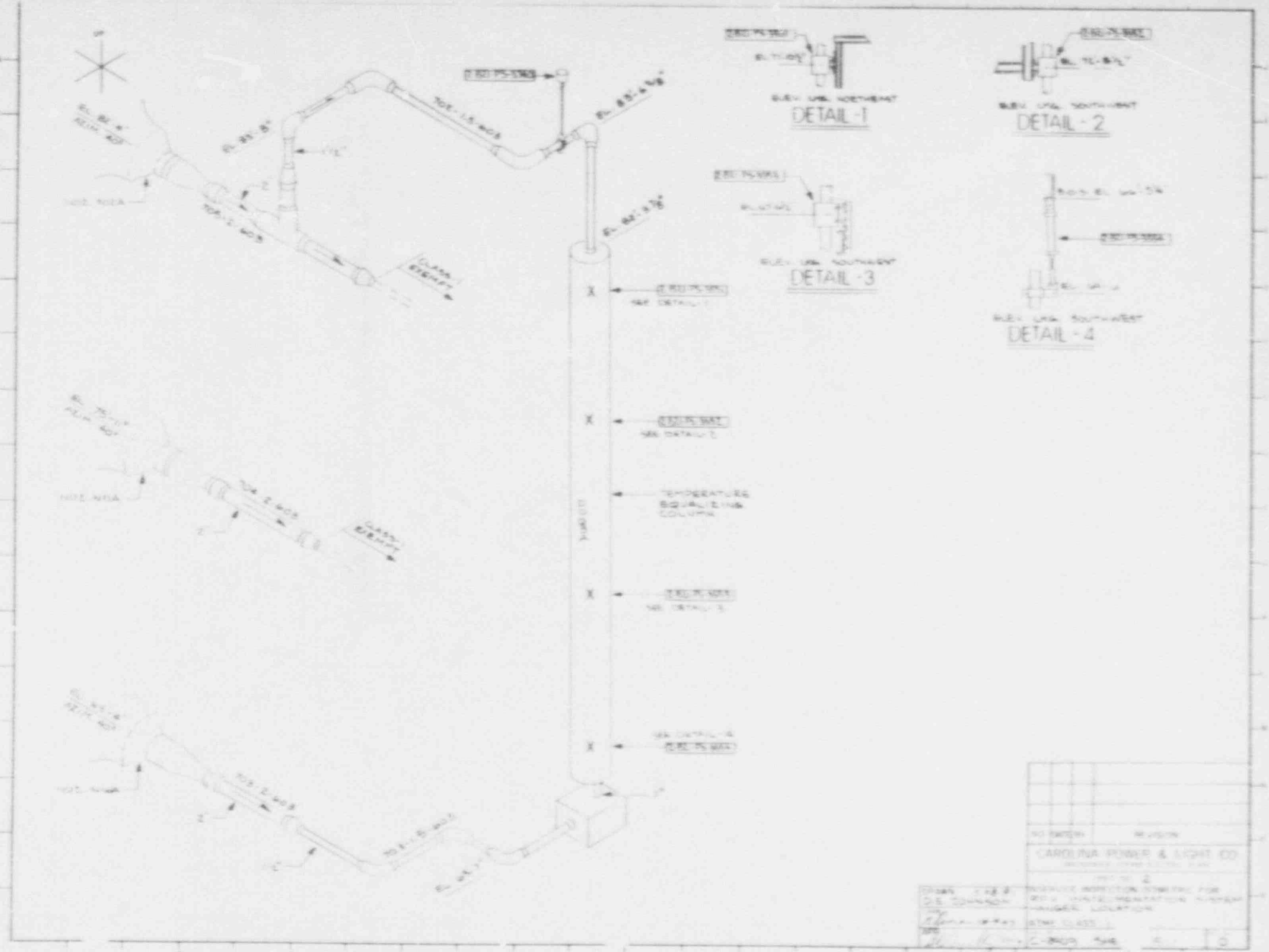
INSERVICE INSPECTION DRAWING FOR MAIN STEAM CONDENSATE DRAIN LINE 3" HANGER LOCATION

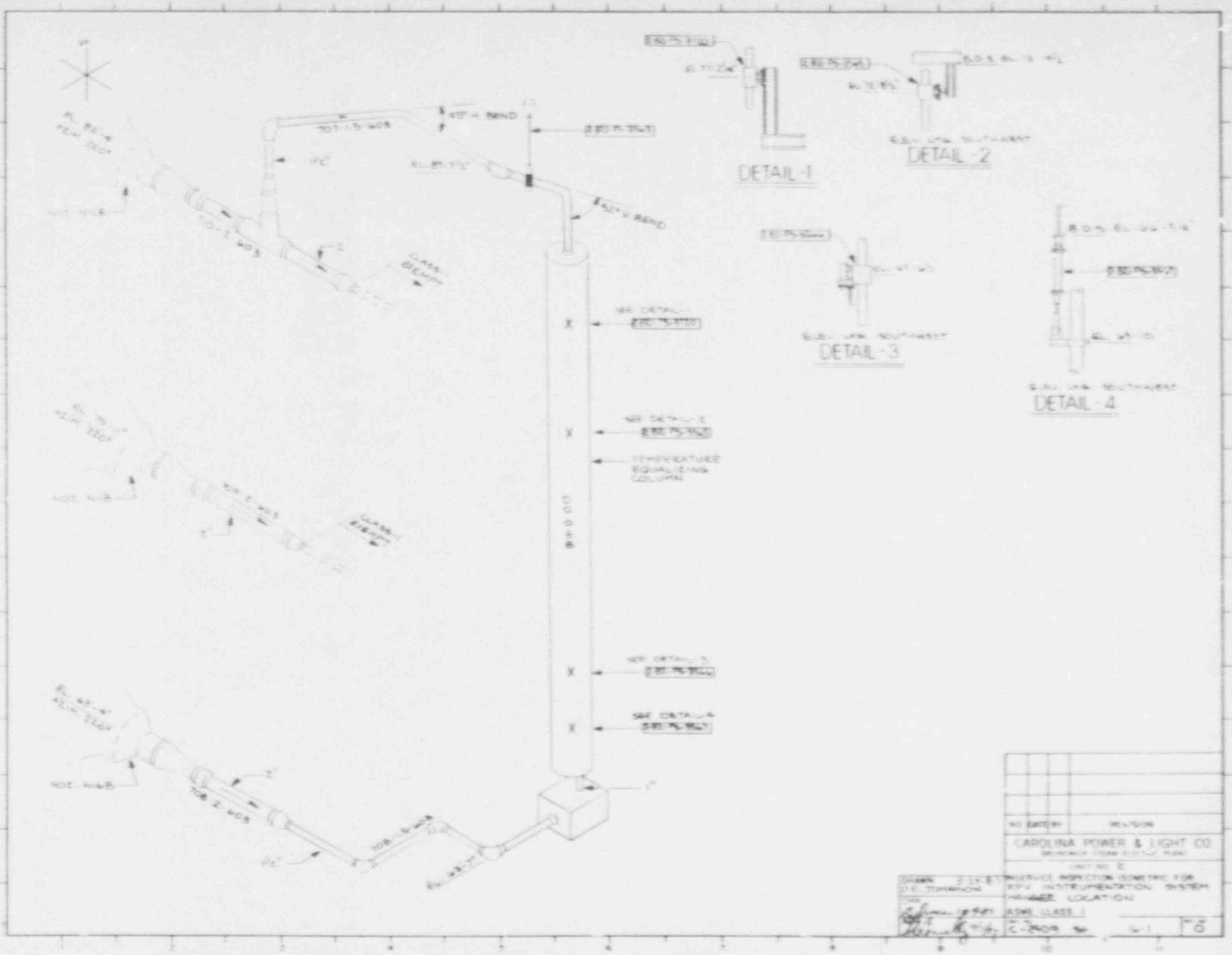
ASME CLASS 1

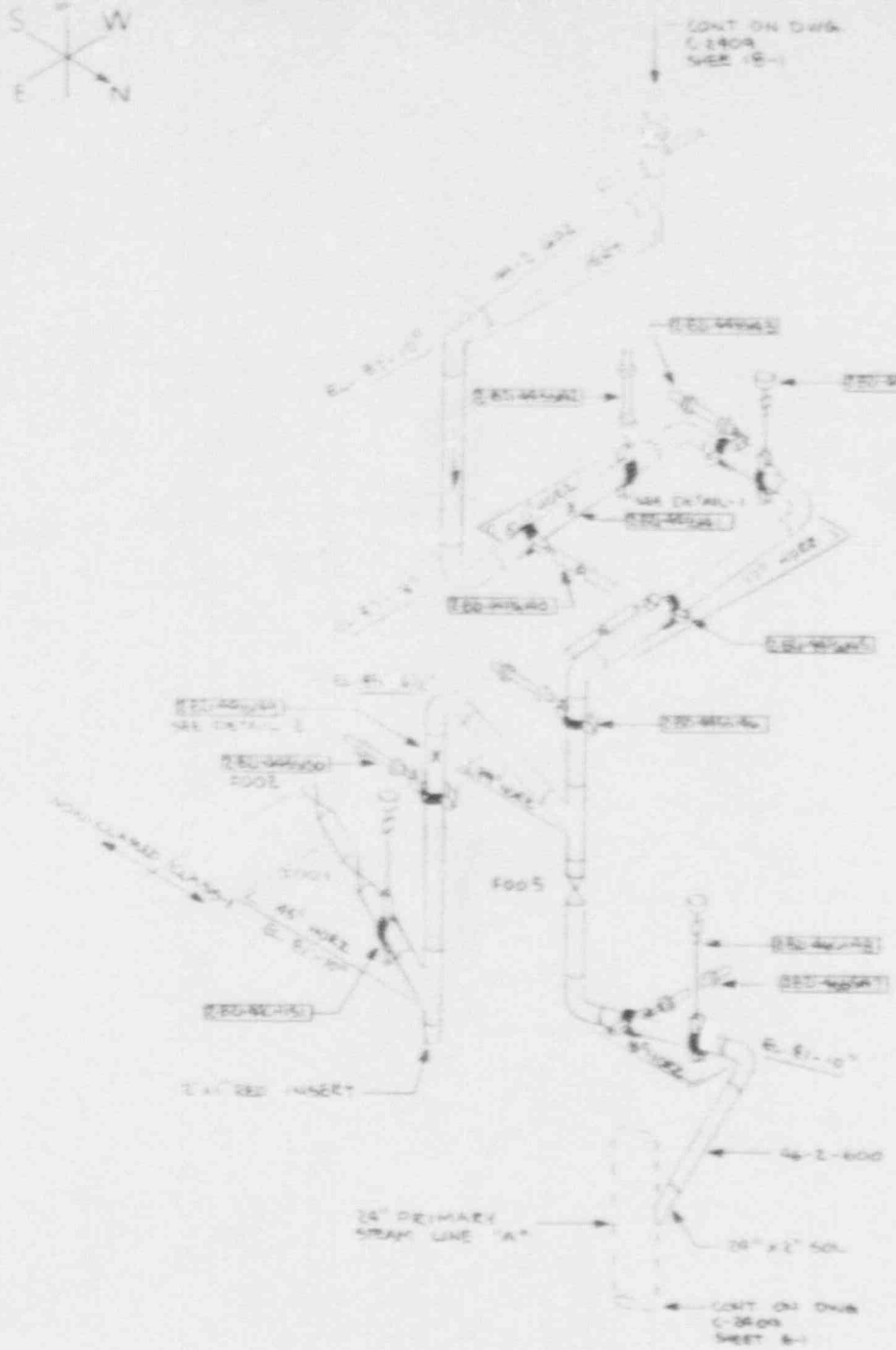
2-2409 SH. 10-1 of 8

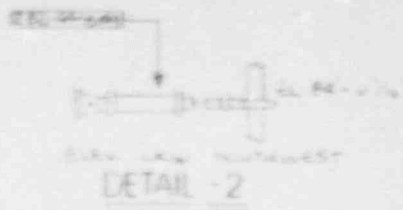

W
N
S
E
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
DETAIL-7
DETAIL-8
DETAIL-9
DETAIL-10
DETAIL-11
DETAIL-12
DETAIL-13
SEATING EL 67'-0"
SEATING EL 52'-0"
SEATING EL 46'-0"
CONT. ON DWG
CAROLINA POWER & LIGHT CO.
SERVICE INSPECTION ISOMETRIC FOR
"SEAWATER SYSTEM LOOP A"
HANGER LOCATION
ASME CLASS 3
REVISION


S
W
E
N
DETAIL -1
DETAIL - 2
DETAIL - 3
DETAIL - 4
DETAIL - 5
DETAIL - 6
DETAIL - 7
DETAIL - 8
DETAIL - 9
DETAIL - 10
DETAIL - 11
DETAIL - 12
DETAIL - 13
DETAIL - 14
DETAIL - 15
GRATING EL 67'-0"
GRATING EL 52'-0"
GRATING EL 38'-0"
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
SEE DETAIL-5
SEE DETAIL-10
SEE DETAIL-11
SEE DETAIL-12
SEE DETAIL-13
SEE DETAIL-14
SEE DETAIL-15
CONT ON DWG. C-2909 SHEET 53-1
CONT ON DWG. C- SHEET 43-1
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR FEEDWATER SYSTEM LOOP A HANGER LOCATIONS
ASME CLASS 1
D.E. JOHNSON
C-2909


DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
CLASS EIGHT
TEMPERATURE EQUALIZING COLUMN
CAROLINA POWER & LIGHT CO


DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
45° H. BEND
90° V. BEND
TEMPERATURE EQUALIZING COLUMN
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
ASME CLASS 1





NO. DATE	REVISION

CAROLINA POWER & LIGHT CO

DWG. NO. 2

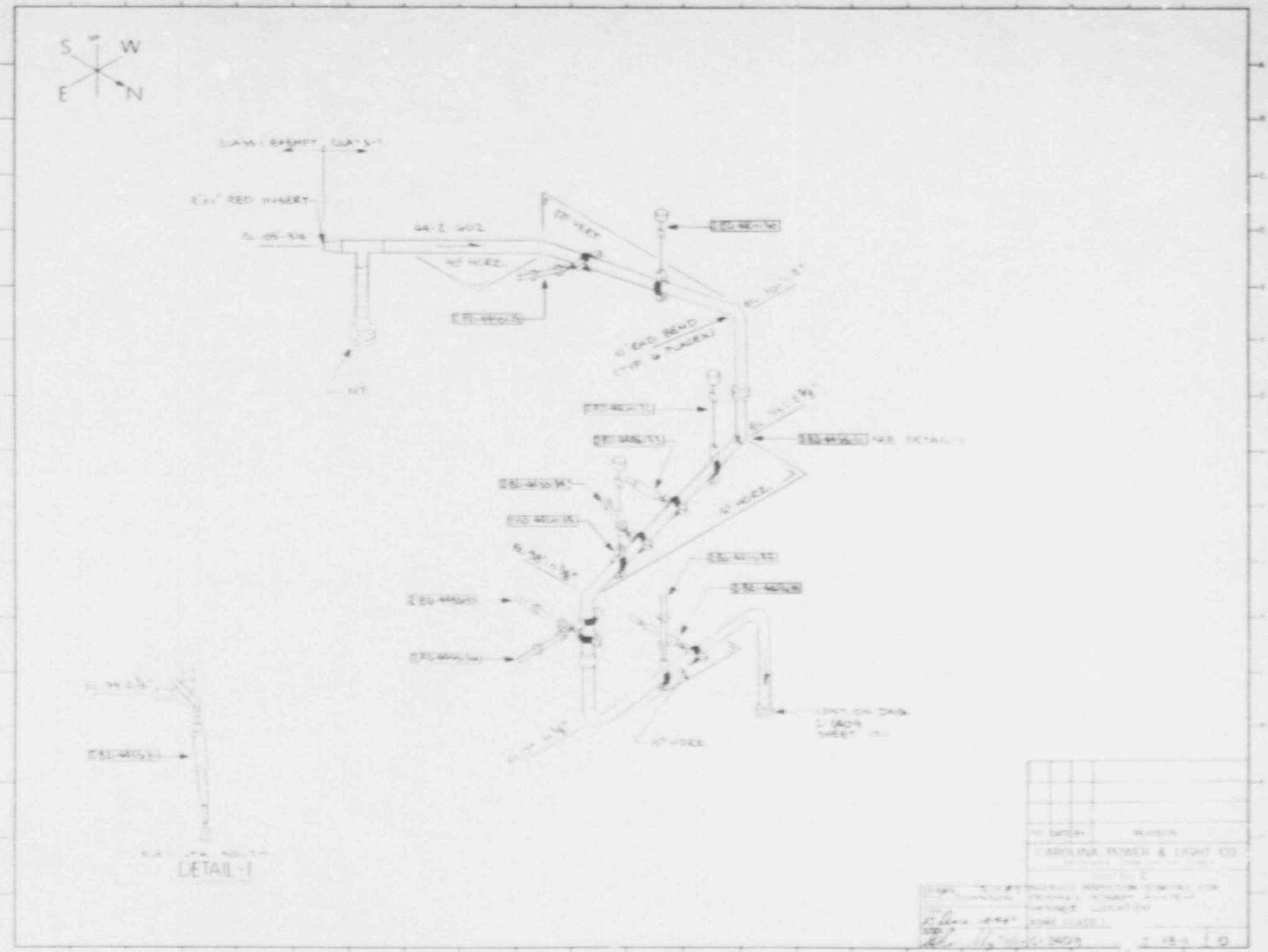
DRAWN: R.H.B.
E.K. JOHNSON

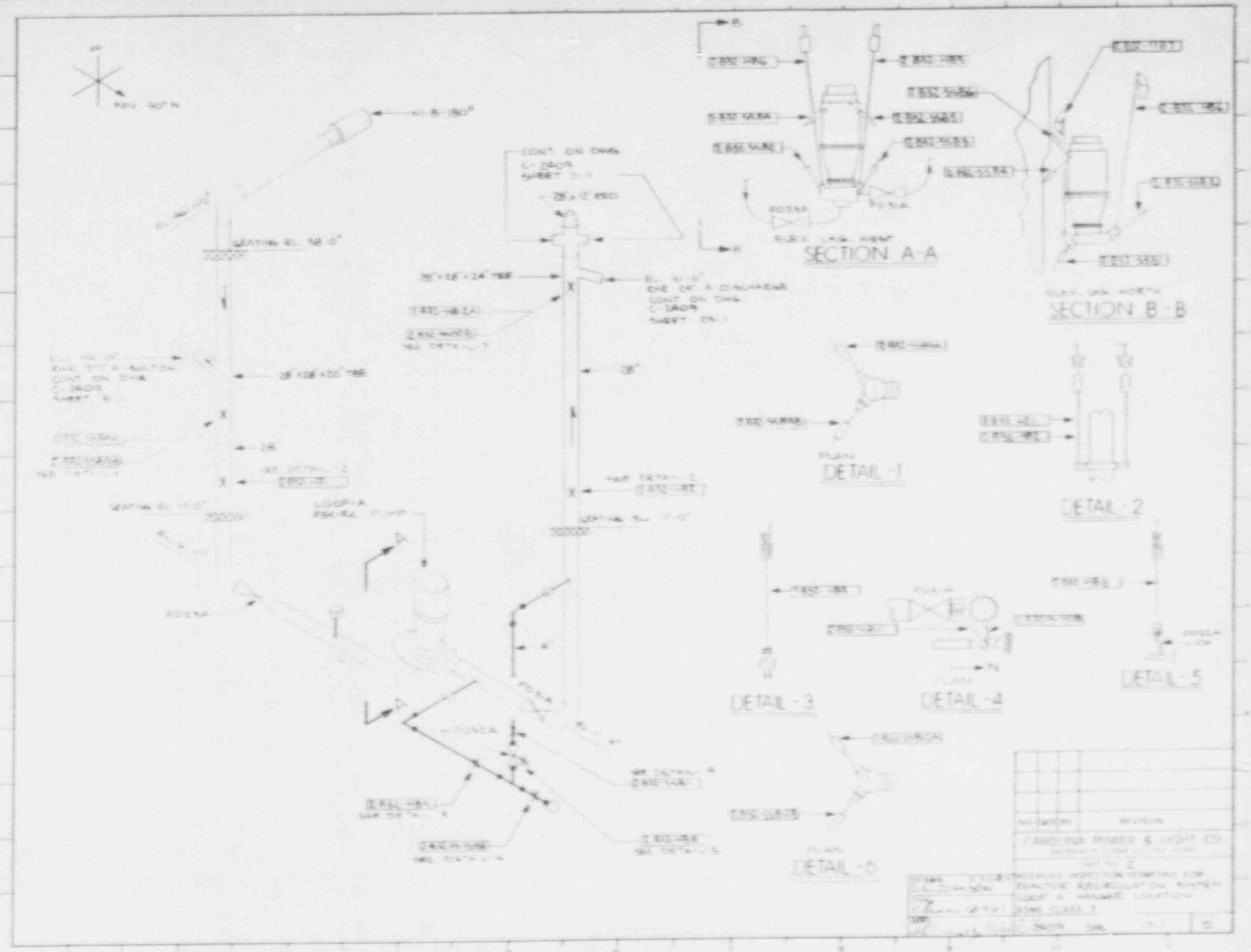
INSERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM HANGER LOCATION

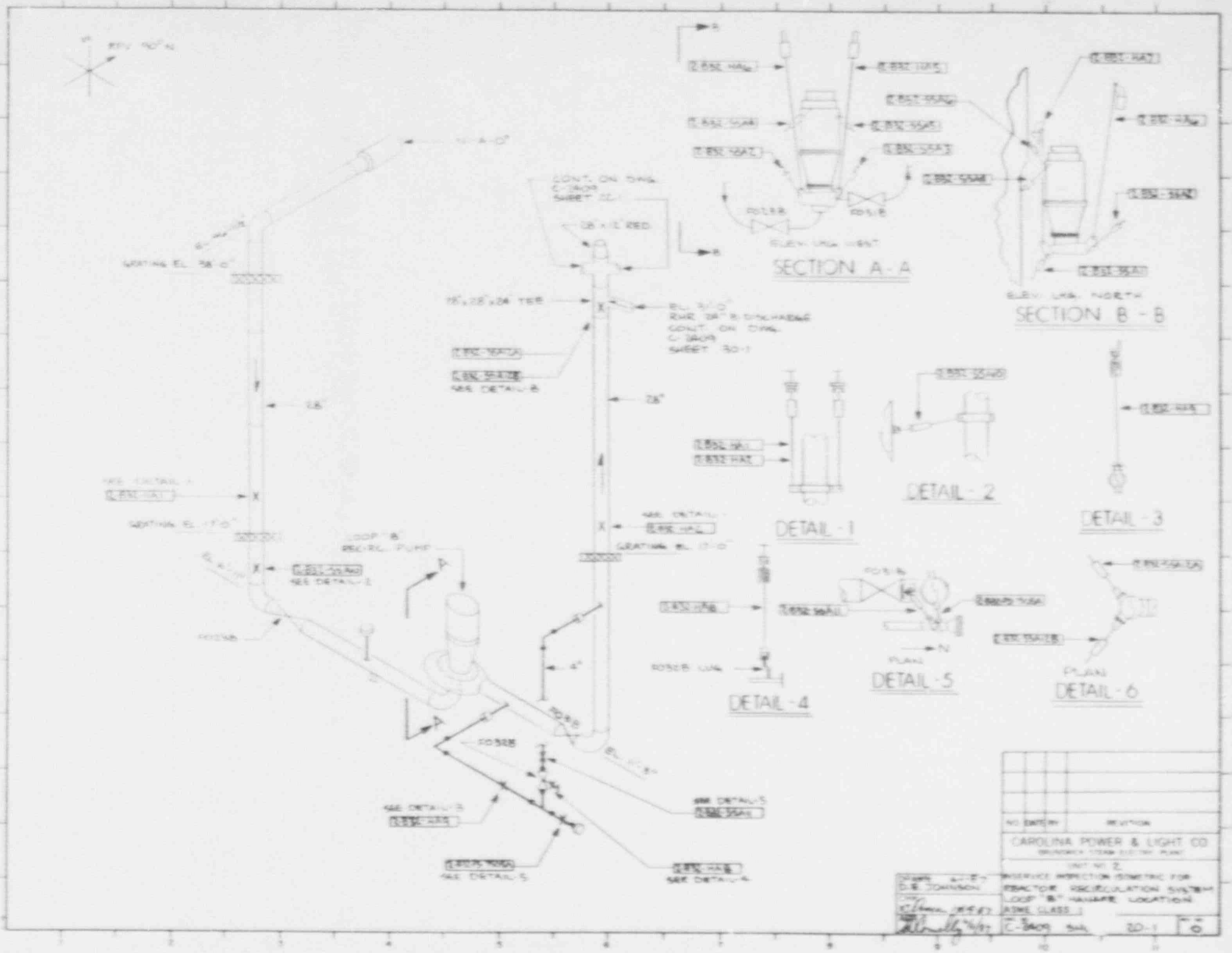
ASME - ASS. 1

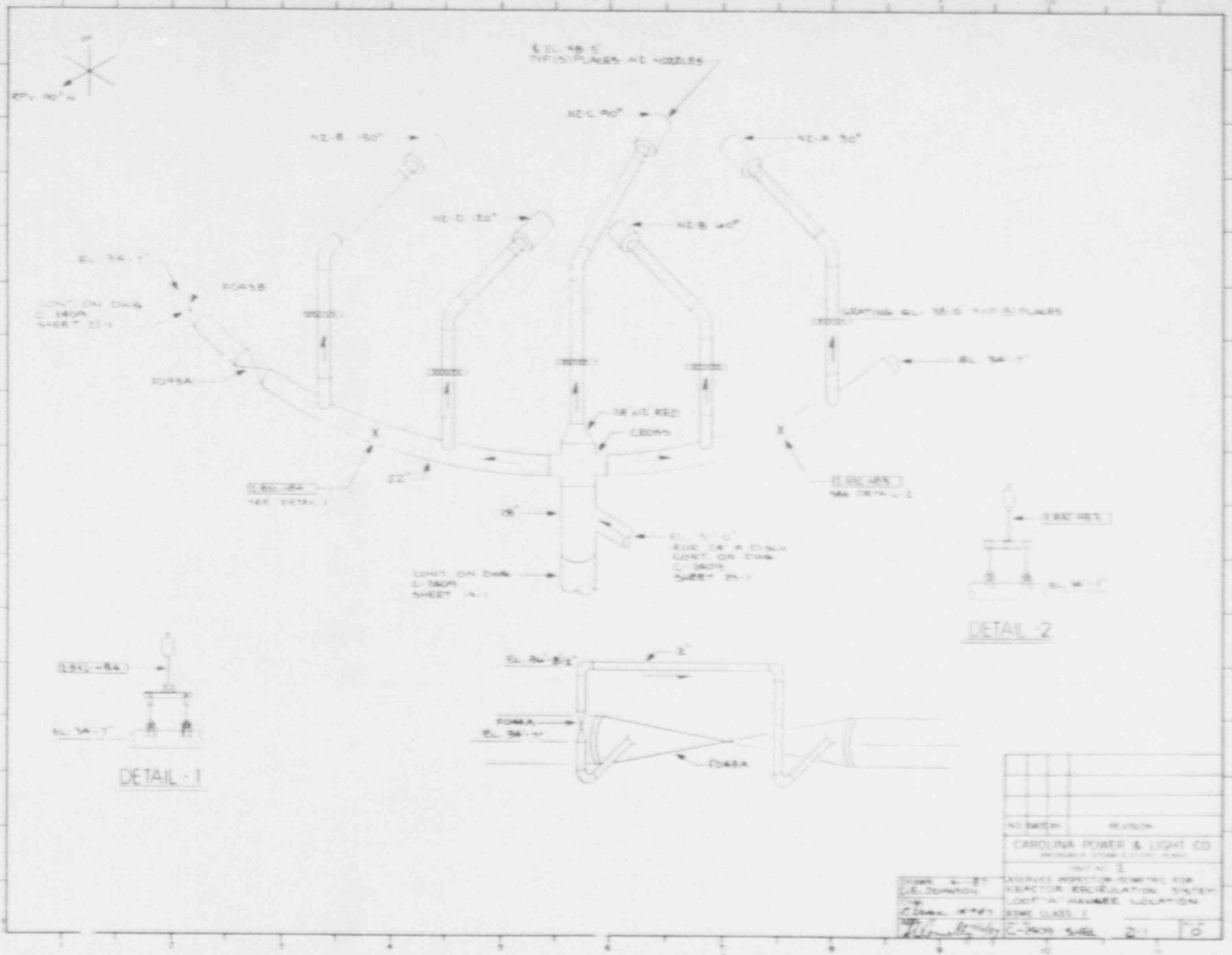
C-2409

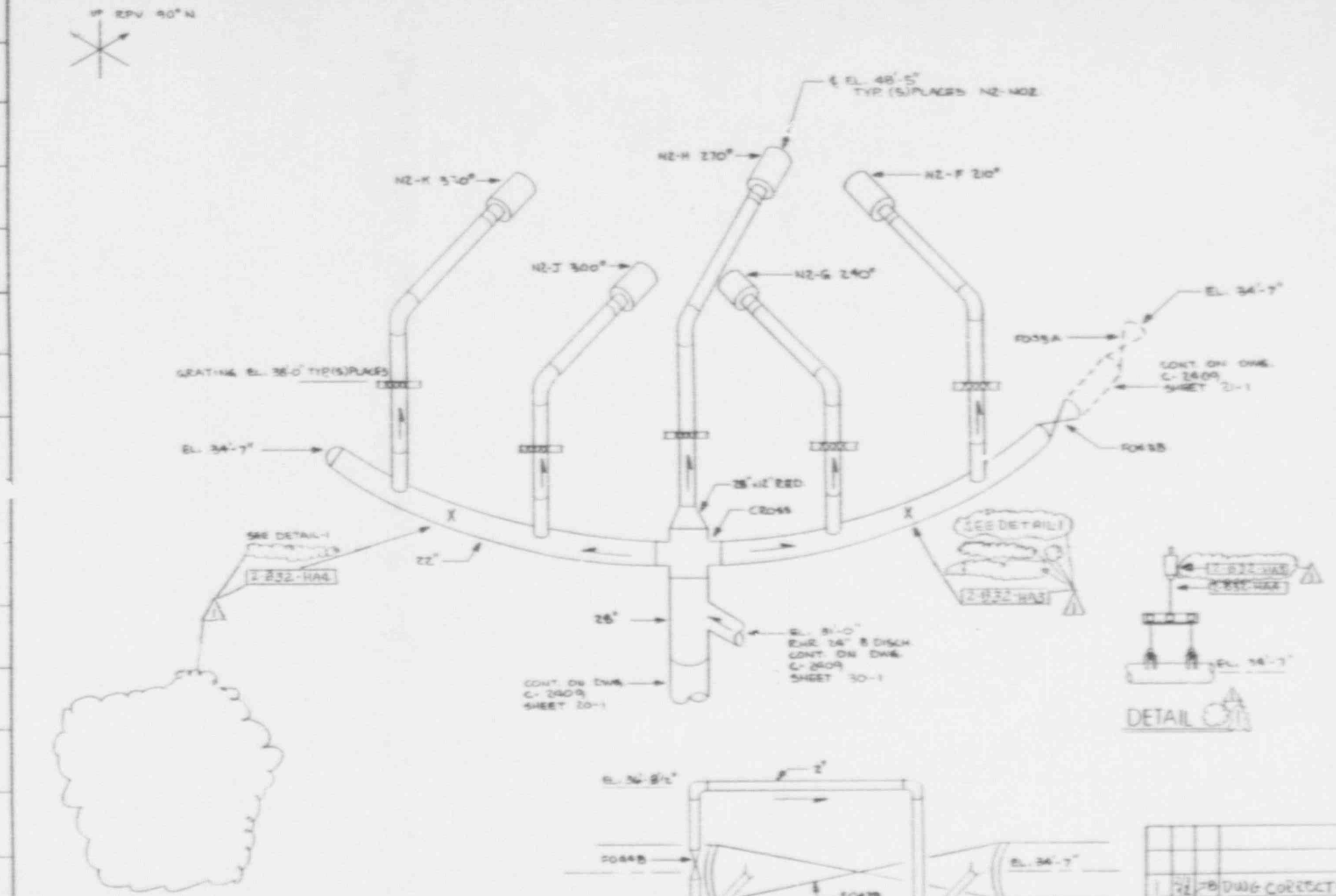
SET 17 | 0


S
W
E
N
CLASS 1 EXEMPT
CLASS 1
2x1" RED INSERT
44-2-602
90° HORZ.
90° VERT.
6" RAD. BEND
(TYP. 4 PLACES)
NOT
DETAIL-1
CARBONA POWER & LIGHT CO


SECTION A-A
SECTION B-B
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
CONT ON DWG C-2409 SHEET 2A-1
LOOP A RECIRC PUMP
CAROLINA POWER & LIGHT CO
REACTOR RECIRCULATION SYSTEM
LOOP A HANGER LOCATION
ZONE CLASS 1
C-2409 SHL


SECTION A - A
SECTION B - B
DETAIL - 1
DETAIL - 2
DETAIL - 3
DETAIL - 4
DETAIL - 5
DETAIL - 6
CONT. ON DWG. C-2409 SHEET 20-1
28" x 12" RED.
15" x 28" x 24" TEE
EL. 3'-0" RWR 24" R. DISCHARGE CONT. ON DWG. C-2409 SHEET 20-1
SEE DETAIL-B
GRATING EL. 58'-0"
GRATING EL. 17'-0"
LOOP "B" RECIRC. PUMP
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
SEE DETAIL-5
ELEV. LKG. NORTH
PLAN
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION SYSTEM LOOP "B" HANGER LOCATION
ASME CLASS 1
C-2409
20-1
0

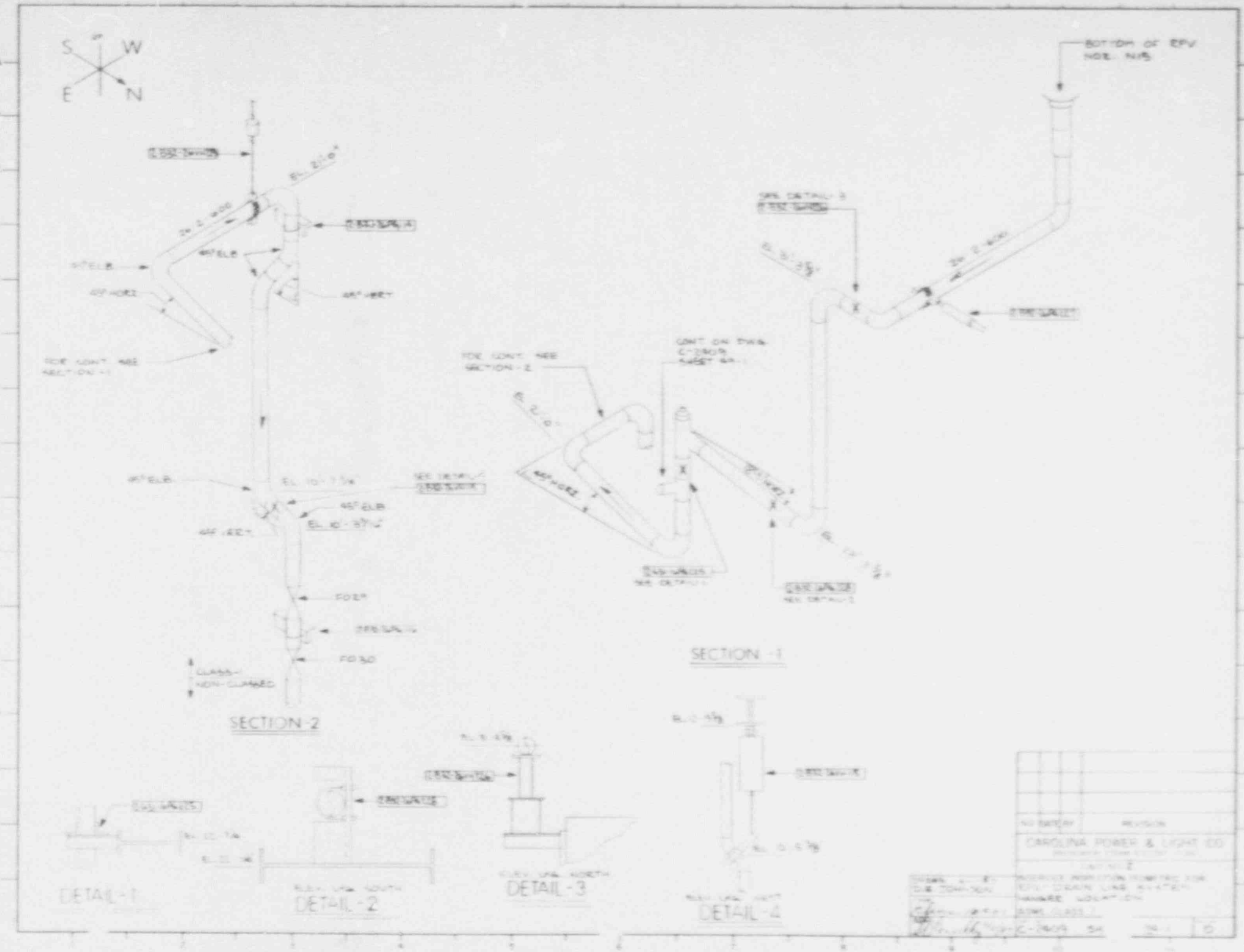

RPV 90° N
N2-C 90°
N2-A 30°
N2-D 20°
N2-B 40°
EL 34'-7"
FDA5B
FDA5A
CONT ON DWG
C-360A
SHEET 21-1
28 WE RED
CROSS
22"
28"
CONT ON DWG
C-360A
SHEET 21-1
DETAIL 2
DETAIL 1
FDA6A
FDA6A
CAROLINA POWER & LIGHT CO
C.E. JOHNSON
ASME CLASS 1
C-360A SHEET 21-1

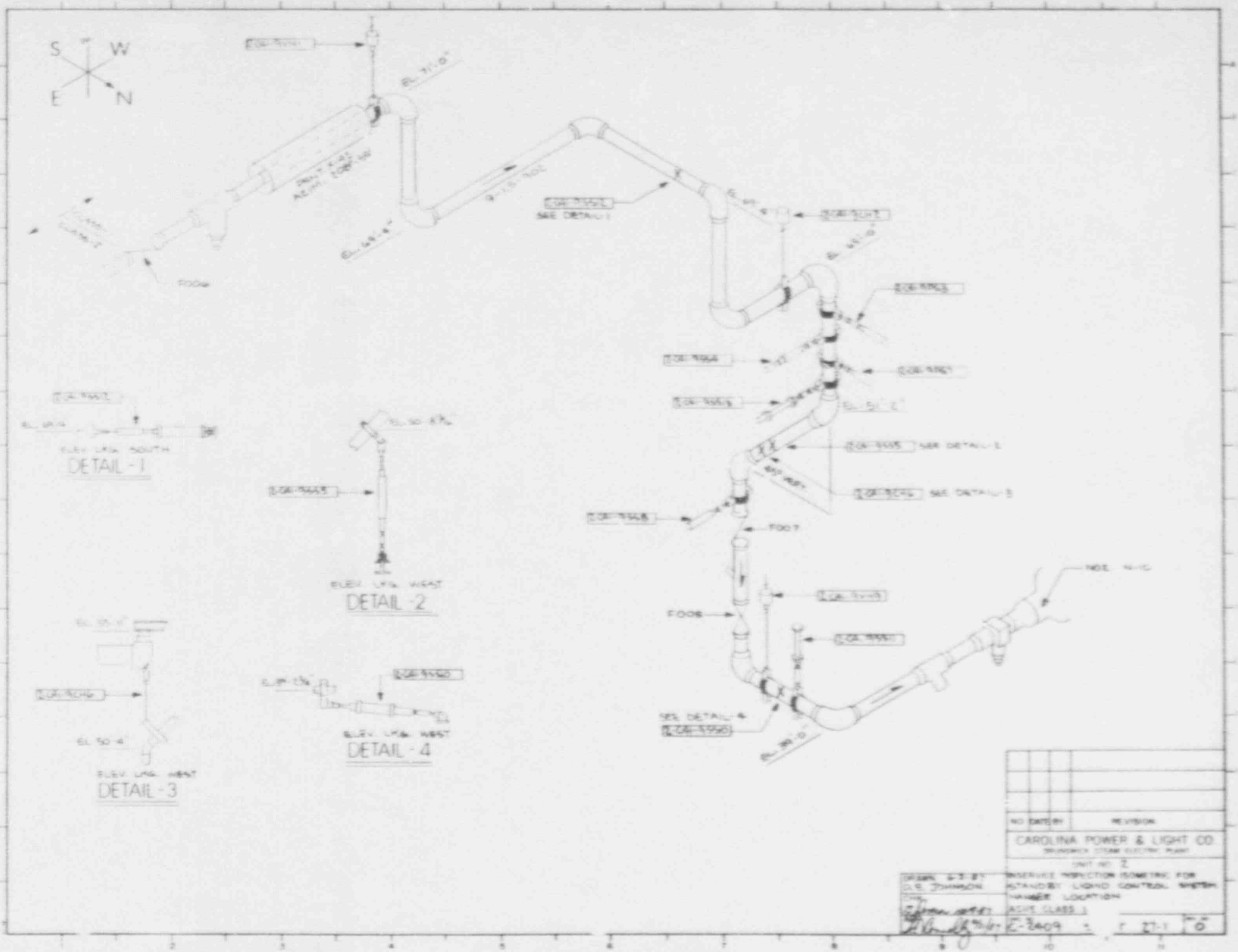


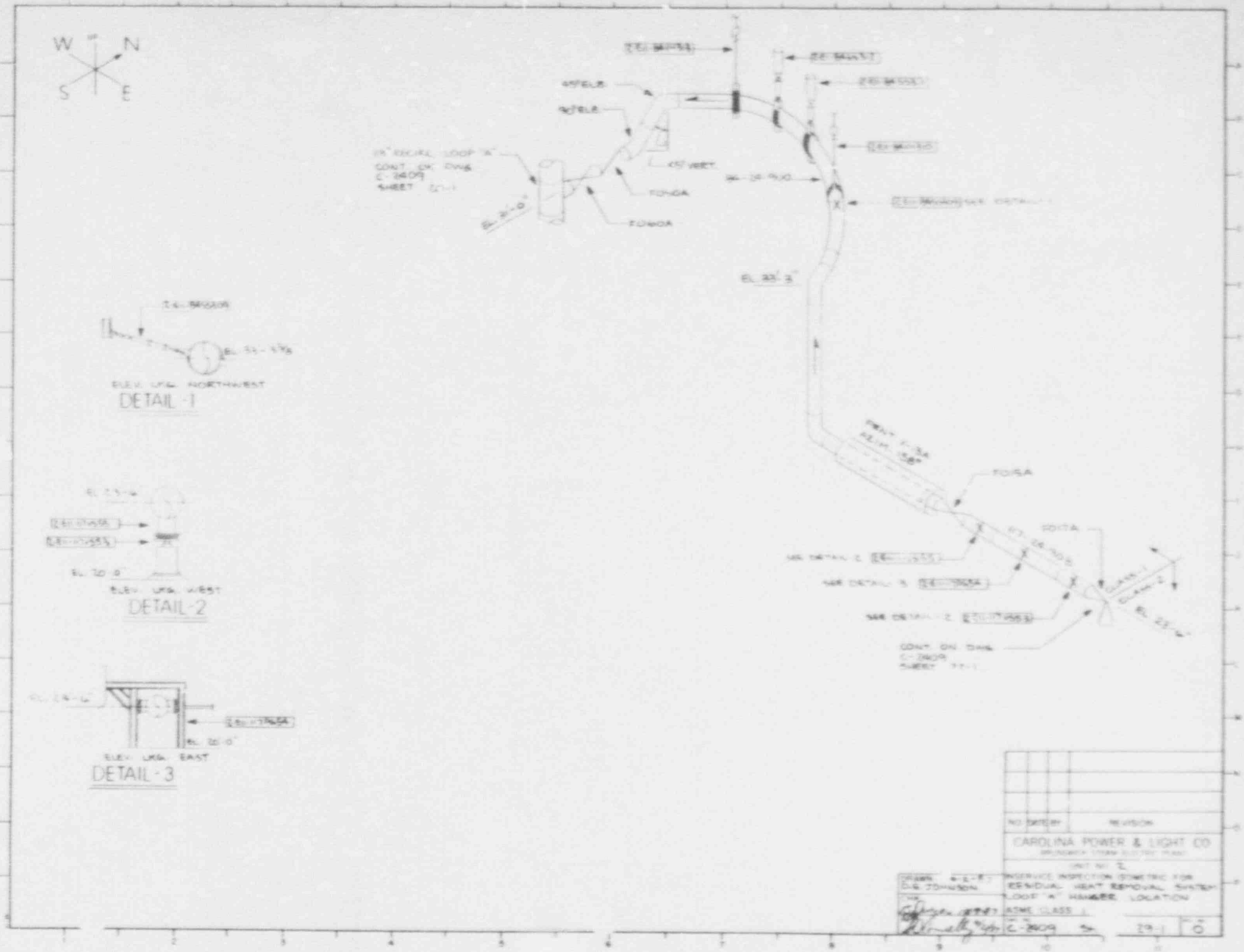
NO	DATE	BY	REVISION
1	7-22	78	DWG CORRECTION

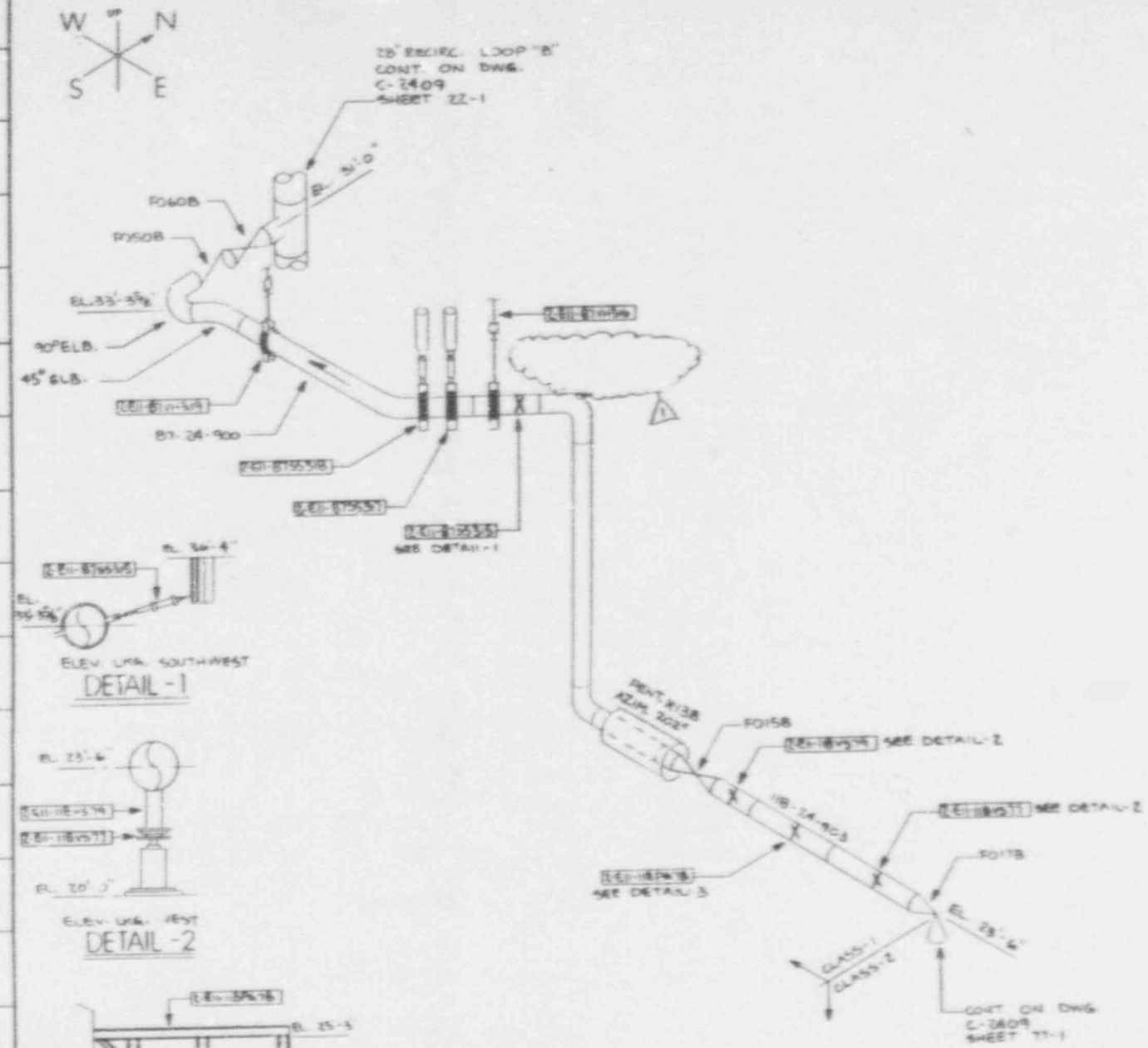
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION SYSTEM LOOP "B" HANGER LOCATION
ASME CLASS 1

DRAWN 8-77 D.E. JOHNSON
C-2409 SHEET 22-1 0


S
W
E
N
BOTTOM OF RPV NOZ. N15
SECTION-1
SECTION-2
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
CAROLINA POWER & LIGHT CO.


S
W
E
N
EL. 71'-0"
SEE DETAIL 1
FOOT
SEE DETAIL 2
SEE DETAIL 3
FOOT
FOOT
SEE DETAIL 4
EL. 50'-0"
ELEV. LKG. SOUTH
DETAIL - 1
EL. 50'-8½"
ELEV. LKG. WEST
DETAIL - 2
EL. 50'-4"
ELEV. LKG. WEST
DETAIL - 3
ELEV. LKG. WEST
DETAIL - 4
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
STANDBY LIQUID CONTROL SYSTEM
HANGER LOCATION
ASME CLASS 1
E-2409
27-1
0


W
N
S
E
45°ELB
90°ELB
FDH0A
FDH0A
EL 21'-0"
EL 23'-3"
FDI5A
FDI7A
CONT. ON DWG
C-2409
SHEET 29-1
ELEV. LKG. NORTHWEST
DETAIL-1
EL 20'-0"
ELEV. LKG. WEST
DETAIL-2
EL 20'-0"
ELEV. LKG. EAST
DETAIL-3
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL SYSTEM
LOOP "A" HANGER LOCATION
ASME CLASS 1
C-2409
29-1
0



NO	DATE	BY	REVISION
1	9/4/78		PM 79-124

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

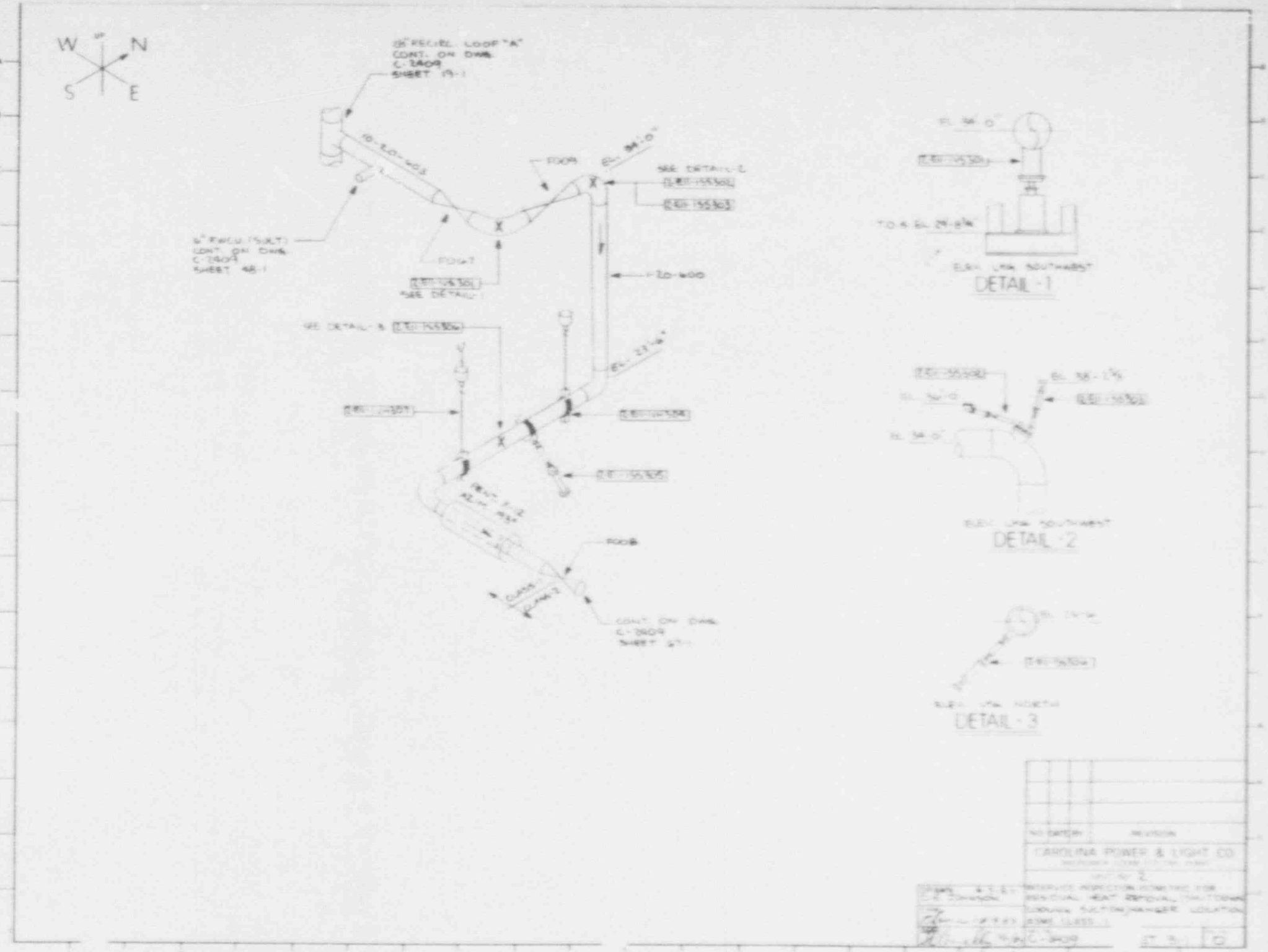
DRAWN 4-3-87 D.E. JOHNSON

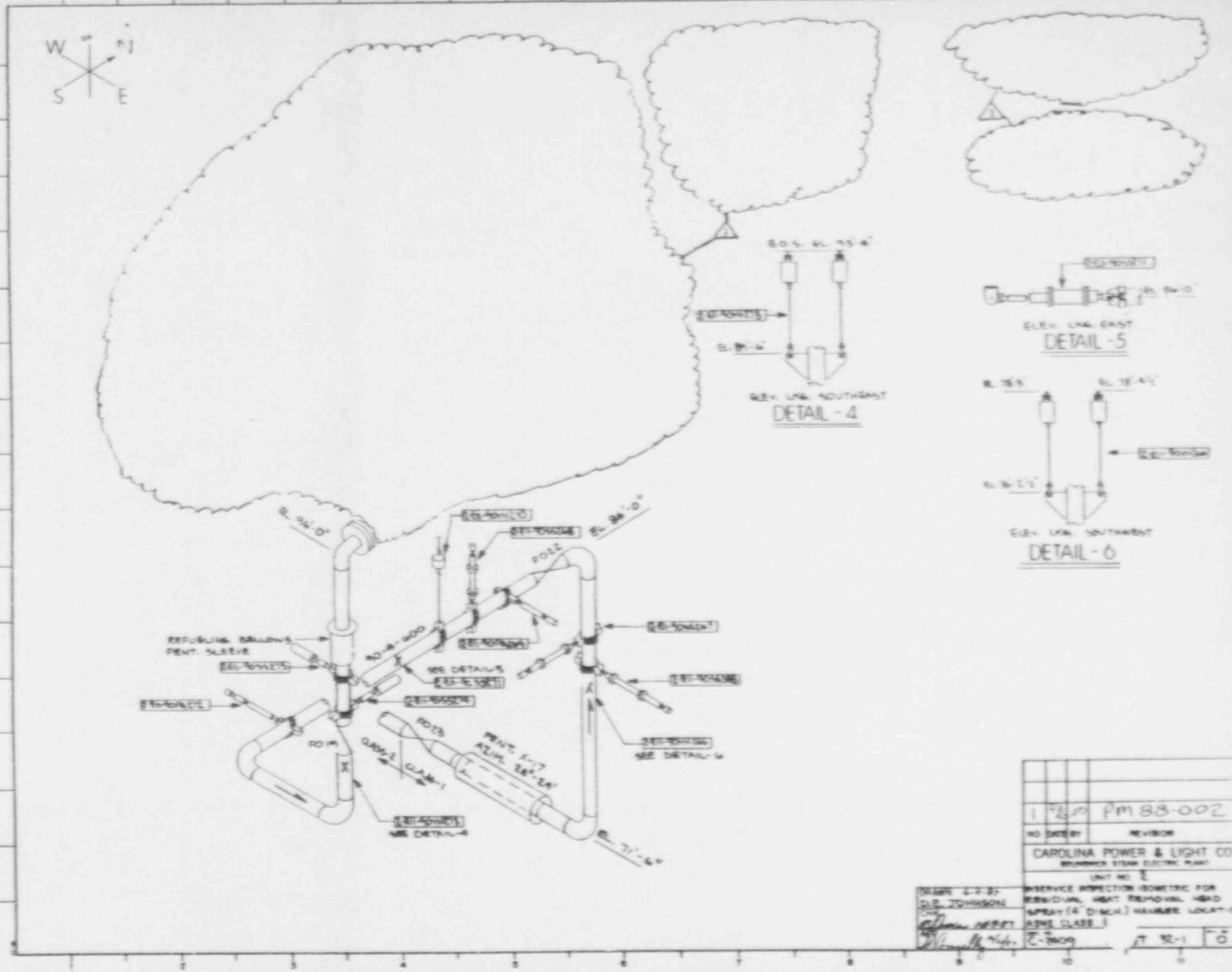
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP "B" HANGER LOCATION

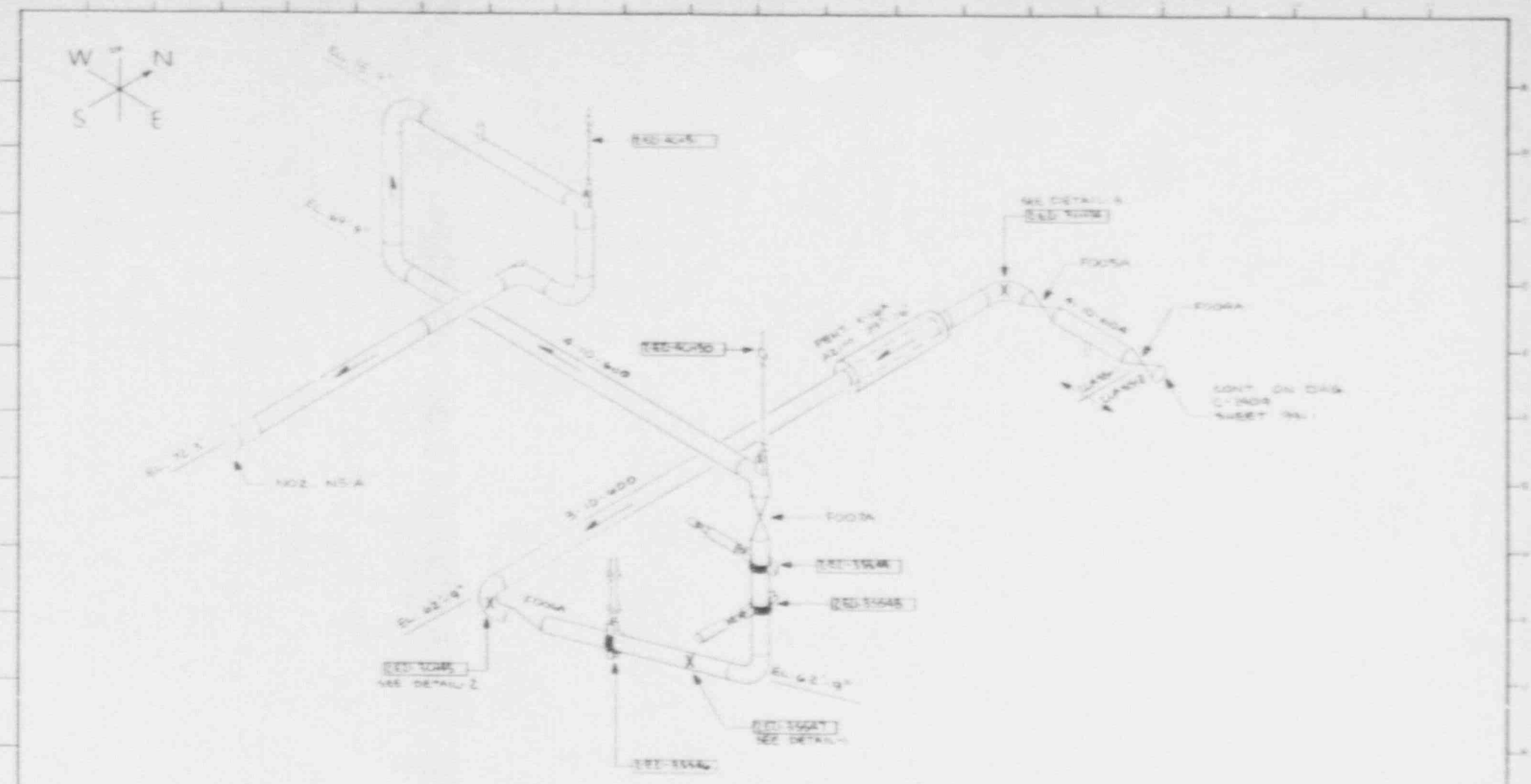
ASME CLASS 1

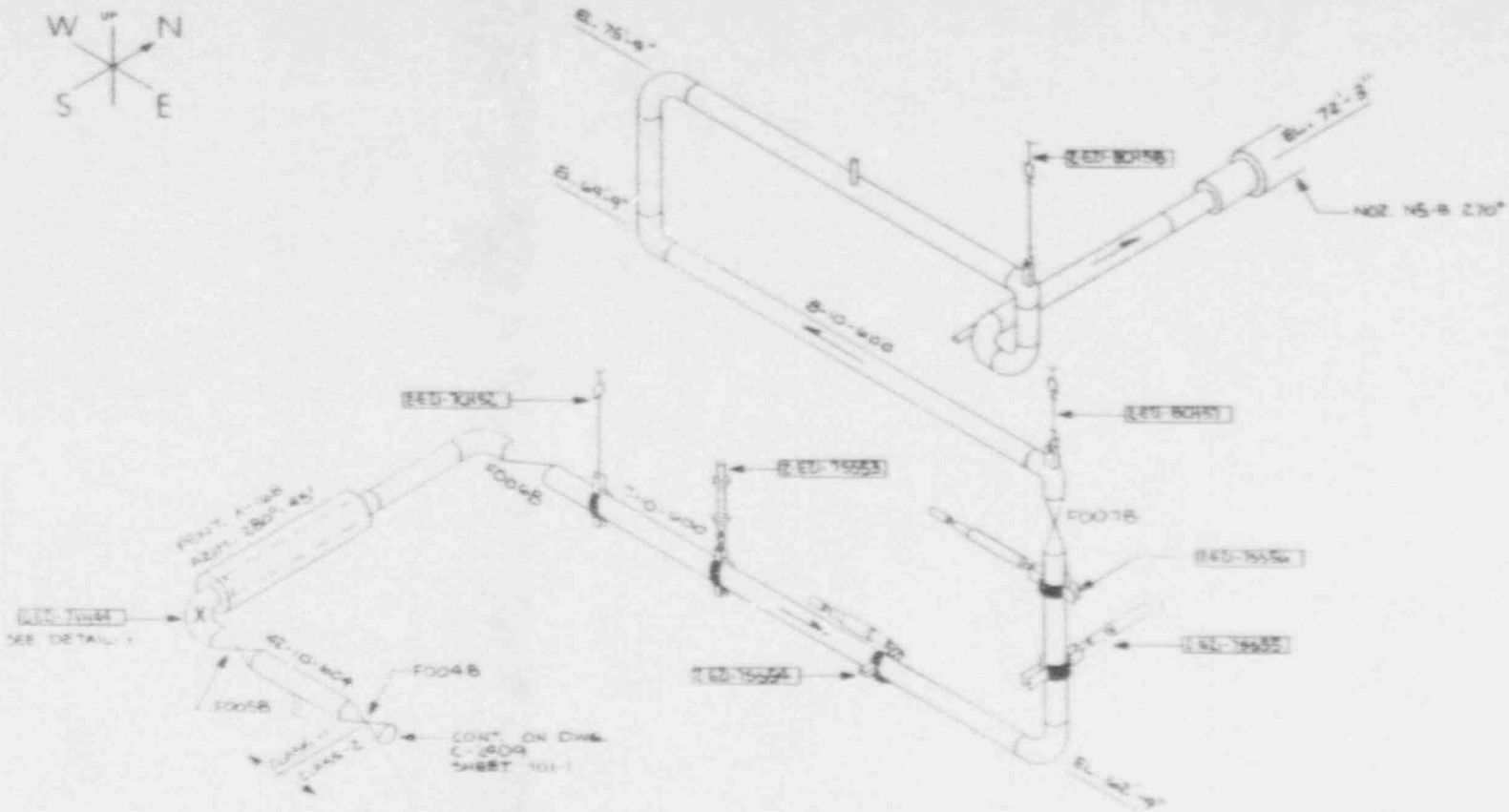
C-2409

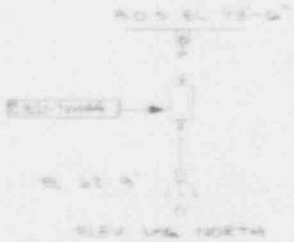
T 30-1 | 0


W
N
S
E
28" RECIRC. LOOP "A"
CONT. ON DWG.
C-2409
SHEET 19-1
20-RC-403
FOOT
EL. 34'-0"
SEE DETAIL-2
6" RWCU (SUCT.)
CONT. ON DWG.
C-2409
SHEET 48-1
FOOT
SEE DETAIL-1
20-600
SEE DETAIL-3
EL. 23'-6"
FOOT
CONT. ON DWG.
C-2409
SHEET 21-1
DETAIL-1
DETAIL-2
DETAIL-3
CAROLINA POWER & LIGHT CO.
C-2409


W
N
S
E
B.O.S. EL. 95'-4"
ELEV. LINE SOUTHEAST
DETAIL - 4
ELEV. LINE EAST
DETAIL - 5
ELEV. LINE SOUTHWEST
DETAIL - 6
REFUELING BELLOWS
PENT. SLEEVE
SEE DETAILS
SEE DETAIL-4
SEE DETAIL-6
PENT. 5-7
AZIM. 28°-24'
PM 88-002
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL HEAD
SPRAY (4" DIAM.) HANGER LOCATIONS
ASME CLASS 1
DRAWN 6-9-80
D.S. JOHNSON
2-2400
IT 82-1
0


W
N
S
E
NOZ. NS-A
FOO7A
FOO9A
FOO8A
SEE DETAIL 2
SEE DETAIL 1
PLAN
DETAIL-1
DETAIL-2
DETAIL-3
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
ISOMETRIC INSPECTION ISOMETRIC FOR
LOOP AREA 10" A DISCHARGE
SYSTEM HANGER LOCATION
ASME CLASS 1
Z-3609
5
FO





DETAIL-1

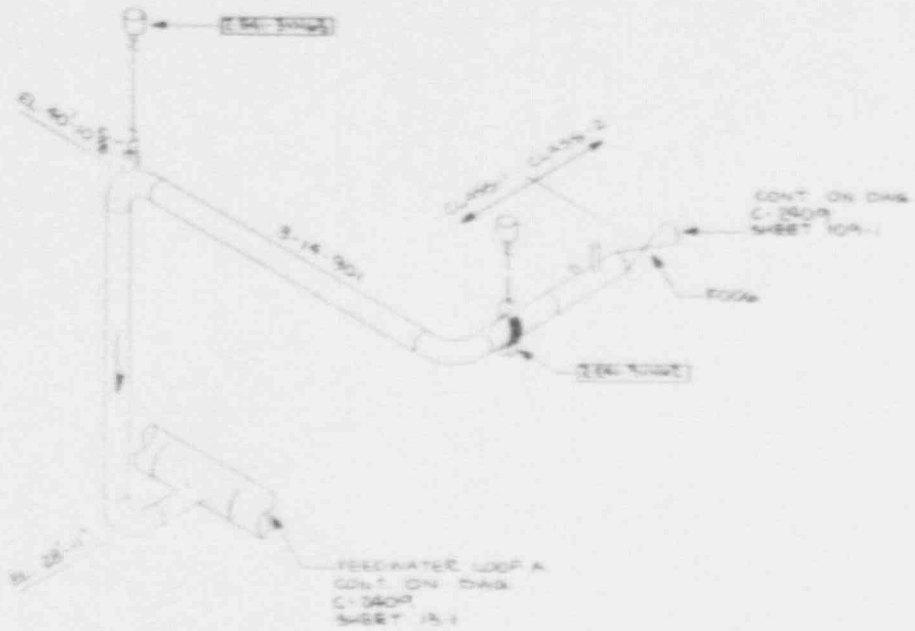
NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR LINE NE8A1-10" R-DISCHARGE SYSTEM HANGER LOCATION

ASME CLASS 1

C-2609 T 36-1 0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO

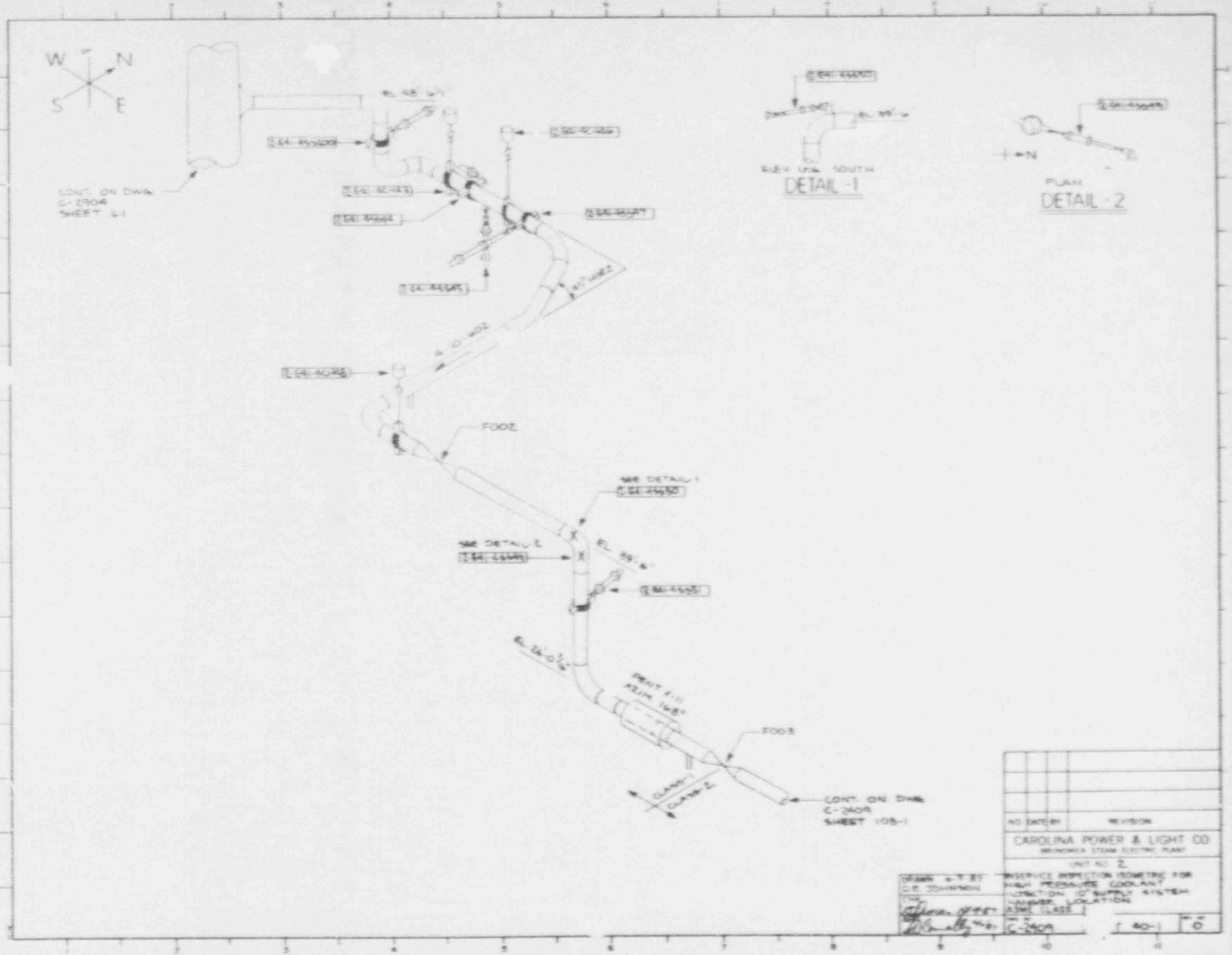
UNIT NO. 2

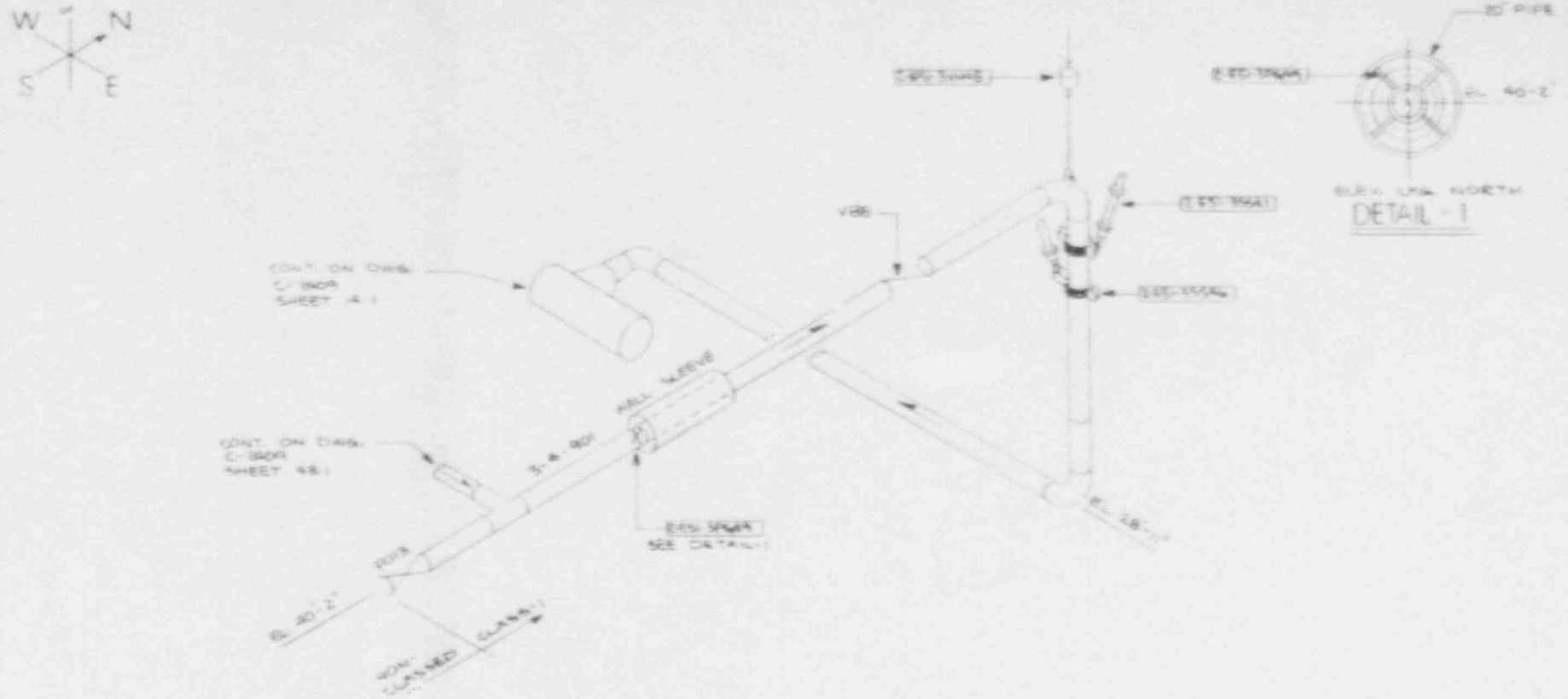
INSERVICE INSPECTION SUMMARY FOR HIGH PRESSURE COOLANT INJECTION & CRACK SYSTEM HANGER LOCATIONS

ASME CLASS 1

C-2601P

0


W
N
S
E
EL. 48'-6"
CONT. ON DWG.
C-2904
SHEET 61
FOOZ
SEE DETAIL-1
SEE DETAIL-2
EL. 39'-6"
EL. 26'-0 1/2"
FOO3
CLASS-1
CLASS-2
CONT. ON DWG.
C-2909
SHEET 105-1
DETAIL-1
PLAN
DETAIL-2
N
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 4-7-81
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR
HIGH PRESSURE COOLANT
INJECTION 10" SUPPLY SYSTEM
NUMBER LOCATION
ASME CLASS 1
C-2909
40-1
0



NO.	DATE BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

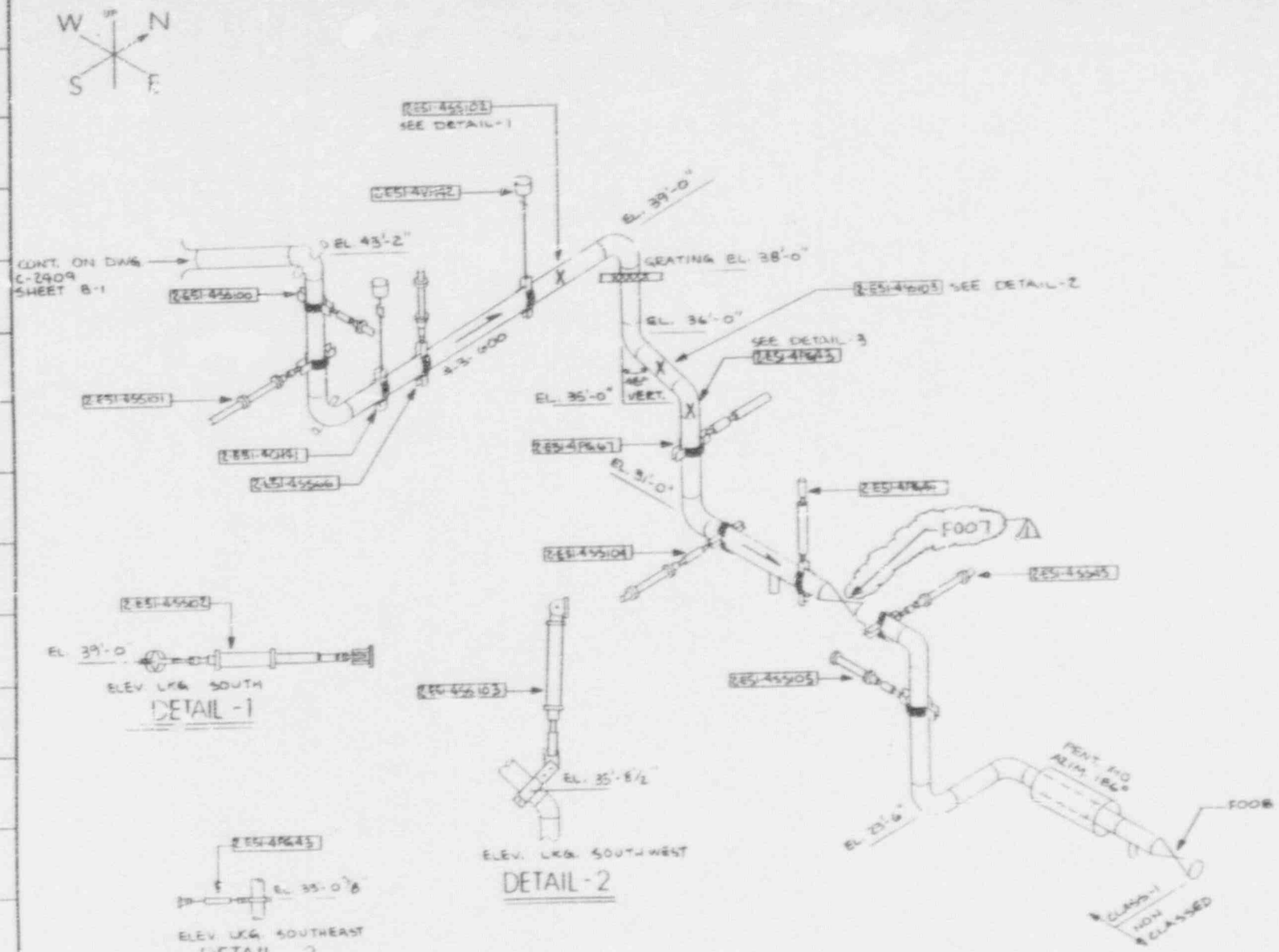
UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR REACTOR CORE ISOLATION COOLING SYSTEM HANGER LOCATION

ASME CLASS 3

DRAWN 2-7-87 D.E. JOHNSON

C-1809 3B 65-1 0



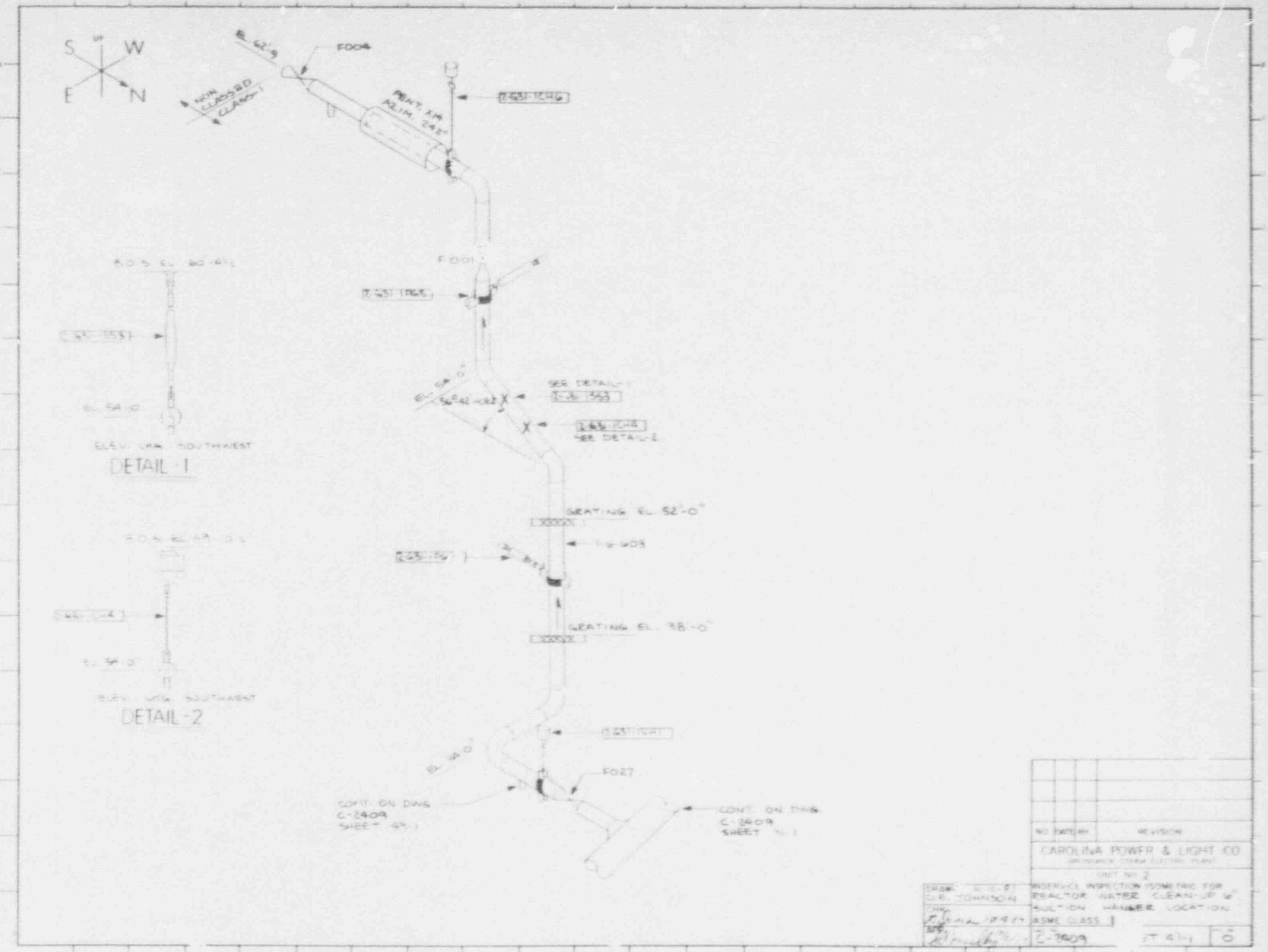
NO	DATE	BY	REVISION
1	3-8-88	JMS	ADD VALVE NUMBER

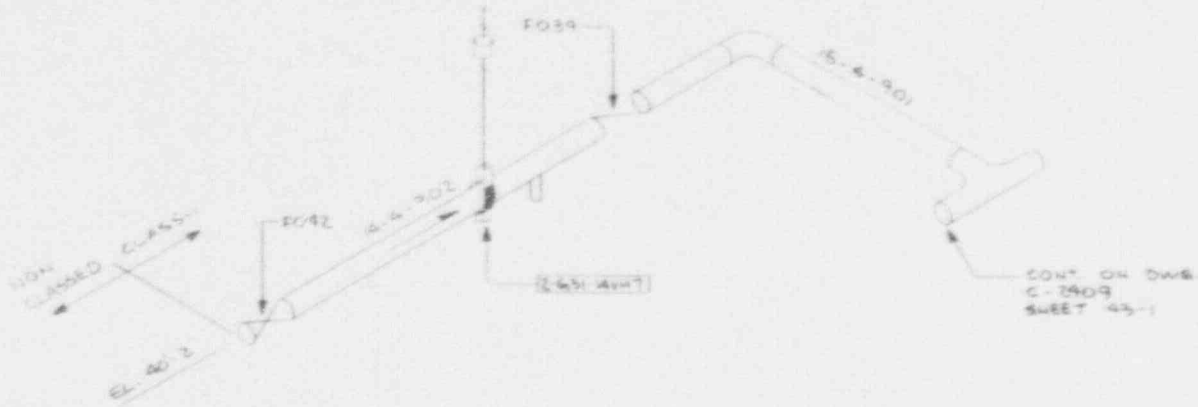
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR REACTOR CORE ISOLATION COOLING STEAM SUPPLY SYSTEM HANGER

DRAWN 6-12-87 D.E. JOHNSON
CHK. 6-12-87
APP. 6-12-87

FORM 71-255
ISOM. CLASS 1
ISOM. 2-2409 S
44-1
0


S
W
E
N
UP
NON CLASSIFIED CLASS I
F004
PENT. 3/4 ALUM. 24"
F001
SEE DETAIL-1
SEE DETAIL-2
GRATING EL. 52'-0"
GRATING EL. 38'-0"
F027
CONT. ON DWG C-2409 SHEET 4A-1
CONT. ON DWG C-2409 SHEET 4A-1
ELEV. LKG. SOUTHWEST
DETAIL-1
ELEV. LKG. SOUTHWEST
DETAIL-2
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO 2
INSERVICE INSPECTION ISOMETRIC FOR REACTOR WATER CLEAN-UP W. SUCTION HANGER LOCATION
ASME CLASS 1
C-2409
5



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2

DRAWN 4-7-87 D.E. JOHNSON

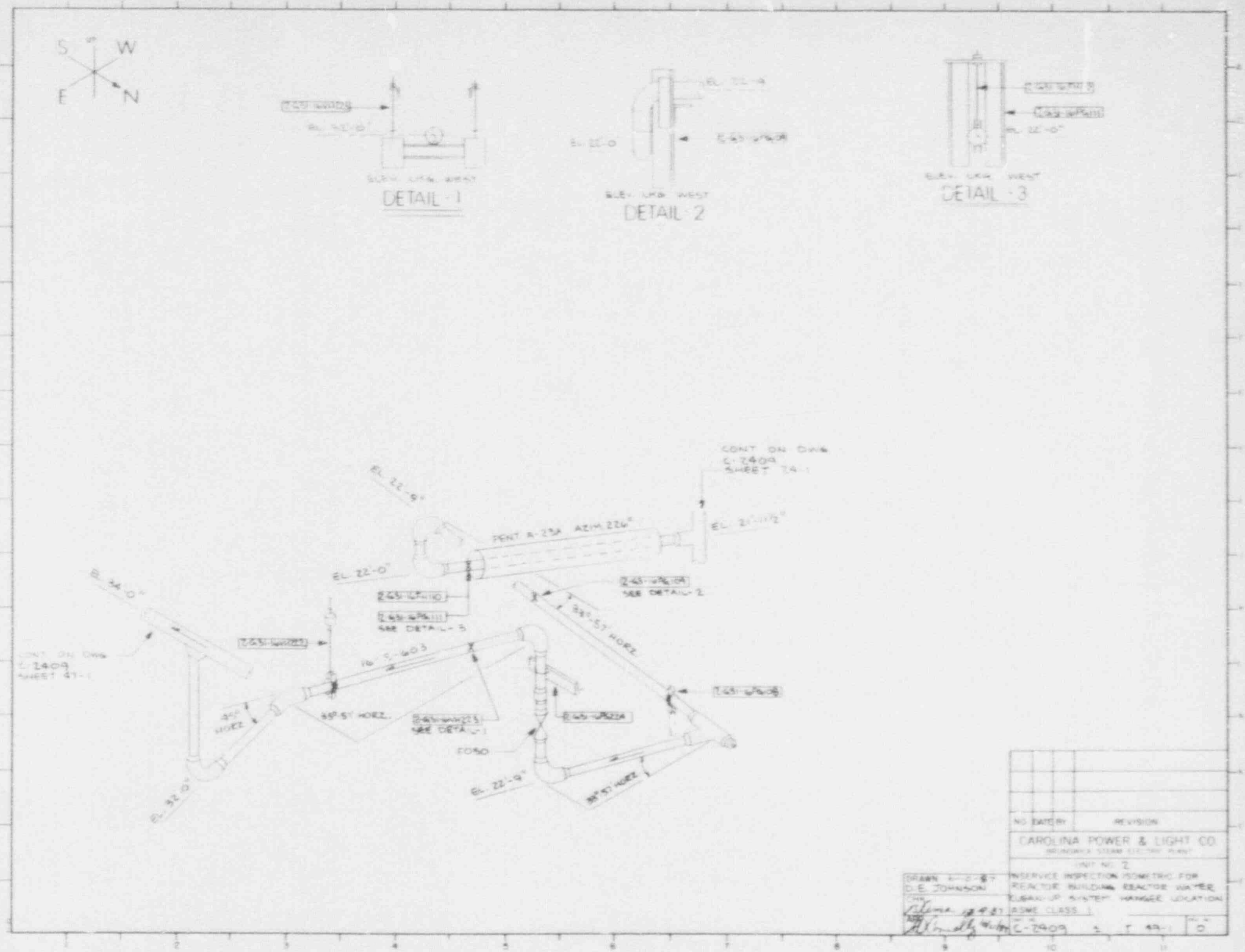
CHK'D 12-9-87

APPD

INSERVICE INSPECTION ISOMETRIC FOR REACTOR BUILDING WATER CLEAN UP (EXTERNAL) SYSTEM HANGER LOCATIONS

ASME CLASS 1

DWG NO. C-2409 SHT. 48-1 REV. C



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

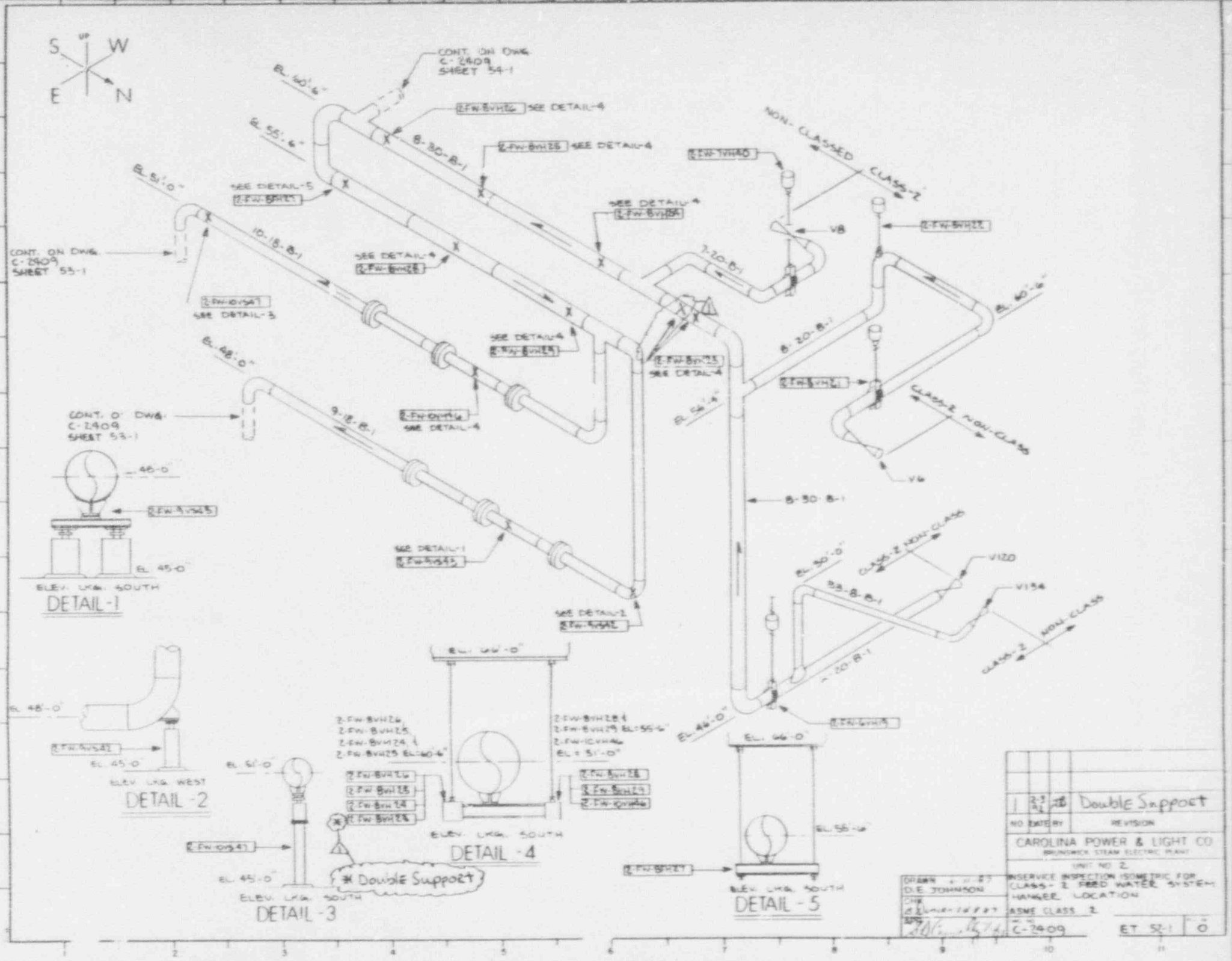
UNIT NO. 2

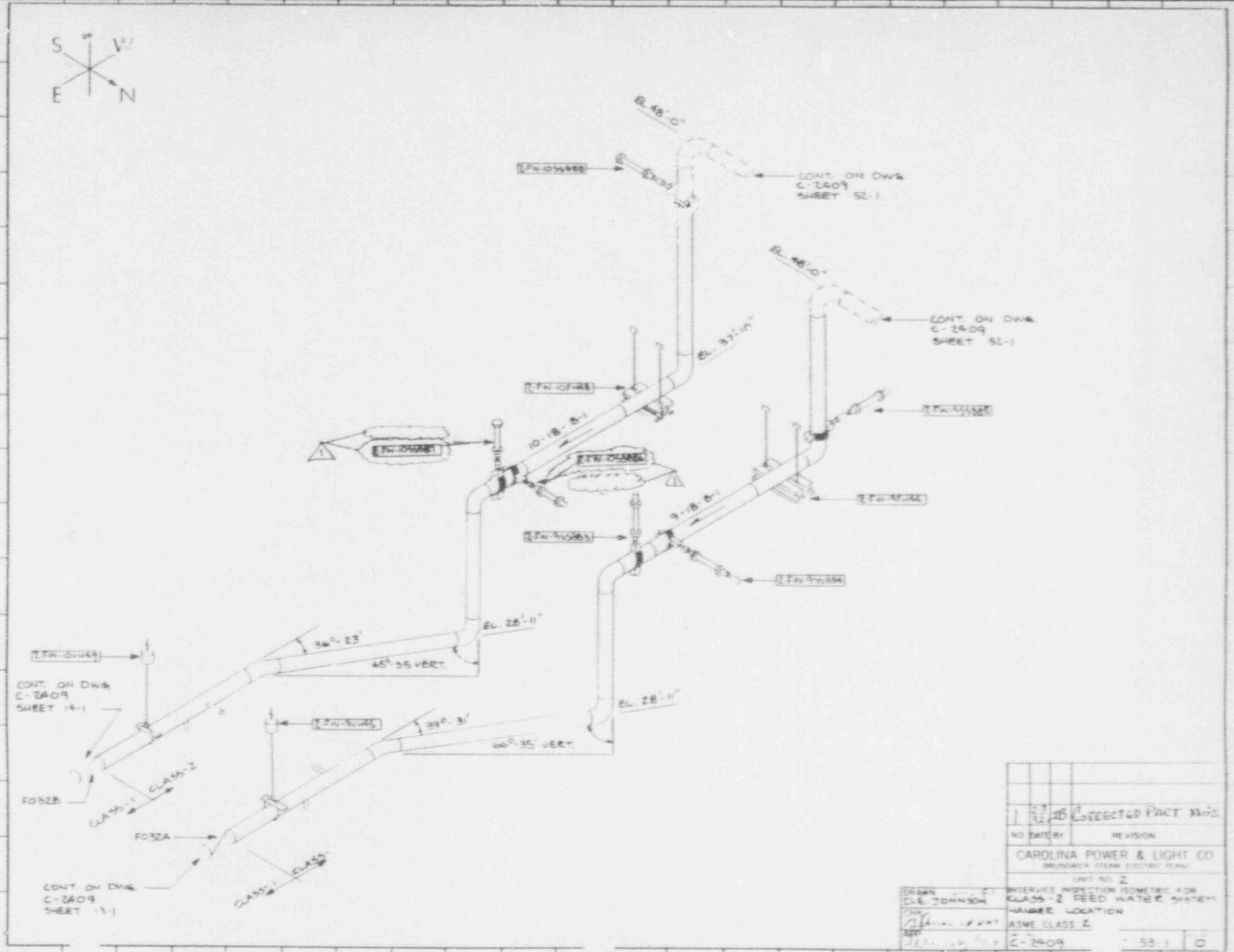
DRAWN 4-2-87
D.E. JOHNSON

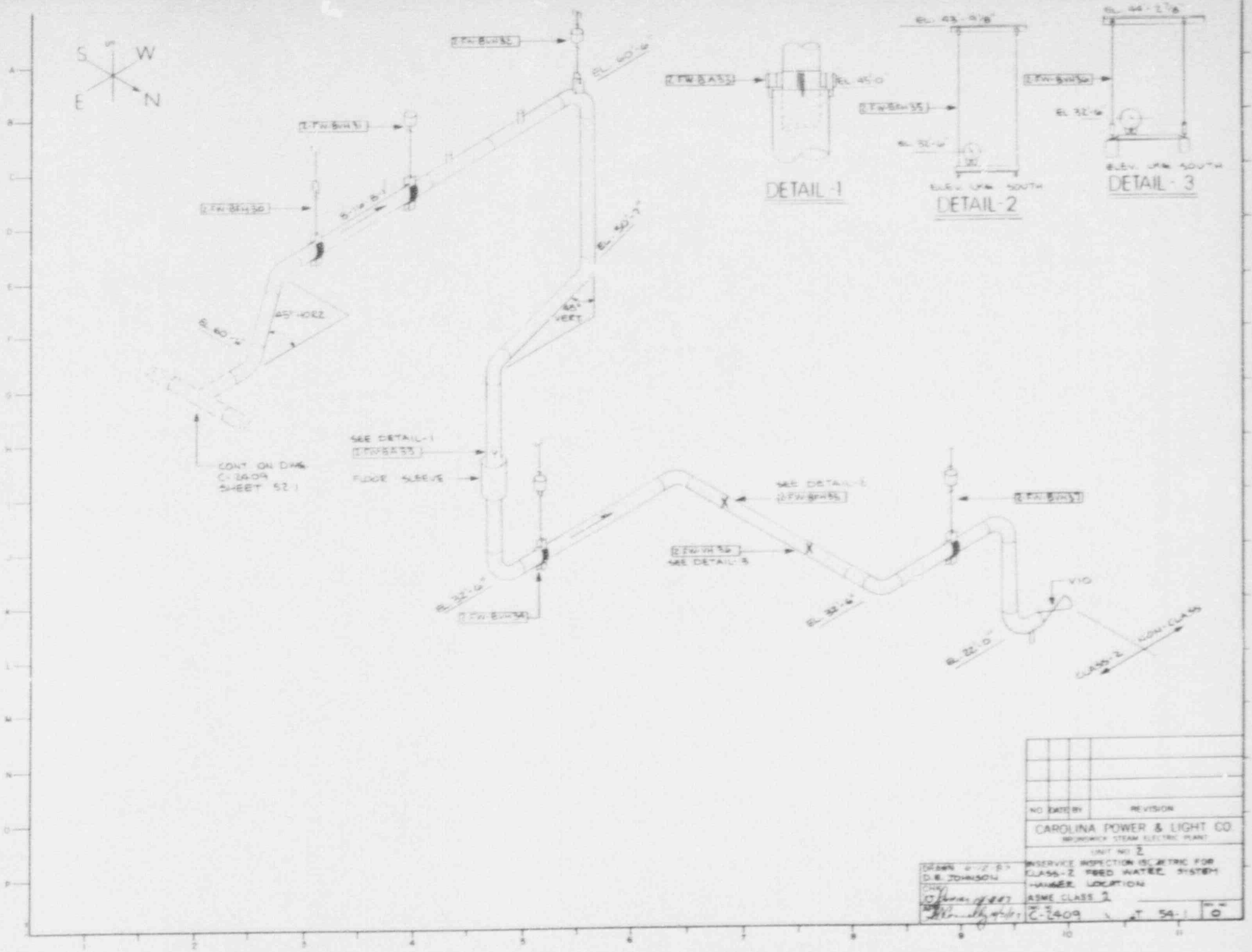
INSERVICE INSPECTION ISOMETRIC FOR REACTOR BUILDING REACTOR WATER CLEAN-UP SYSTEM HANGER LOCATION

ASME CLASS 1

C-2409 | 2 | T 49-1 | 0


S
W
E
N
UP
CONT. ON DWG. C-2409 SHEET 54-1
EL. 60'-6"
EL. 55'-6"
EL. 51'-0"
EL. 48'-0"
2-FW-BVH26
SEE DETAIL-4
2-FW-BVH25
SEE DETAIL-4
8-30-B-1
NON-CLASSED
CLASS-2
2-FW-TVH40
SEE DETAIL-5
2-FW-BVH27
SEE DETAIL-4
2-FW-BVH28
V8
10-18-B-1
7-20-B-1
CONT. ON DWG. C-2409 SHEET 53-1
SEE DETAIL-4
2-FW-BVH24
2-FW-10VH41
SEE DETAIL-3
SEE DETAIL-4
2-FW-BVH23
SEE DETAIL-4
8-20-B-1
EL. 60'-6"
2-FW-BVH22
2-FW-BVH21
CLASS-2 NON-CLASS
V6
EL. 54'-6"
CONT. ON DWG. C-2409 SHEET 53-1
9-18-B-1
2-FW-10VH46
SEE DETAIL-4
46'-0"
2-FW-BVH25
EL. 45'-0"
ELEV. LKG. SOUTH
DETAIL-1
8-30-B-1
SEE DETAIL-1
2-FW-BVS43
EL. 30'-0"
CLASS-2 NON-CLASS
V120
V134
33-8-B-1
SEE DETAIL-2
2-FW-BVS42
NON-CLASS
CLASS-2
20-B-1
EL. 48'-0"
2-FW-BVS42
EL. 45'-0"
ELEV. LKG. WEST
DETAIL-2
EL. 66'-0"
2-FW-BVH26
2-FW-BVH25
2-FW-BVH24 &
2-FW-BVH23 EL. 60'-6"
2-FW-BVH28 &
2-FW-BVH29 EL. 55'-6"
2-FW-10VH46
EL. = 51'-0"
EL. 46'-0"
2-FW-6VH15
EL. 61'-0"
2-FW-BVH26
2-FW-BVH25
2-FW-BVH24
2-FW-BVH28
2-FW-BVH28
2-FW-BVH29
2-FW-10VH46
ELEV. LKG. SOUTH
DETAIL-4
EL. 66'-0"
EL. 56'-6"
2-FW-10VH41
EL. 45'-0"
* Double Support
ELEV. LKG. SOUTH
DETAIL-3
2-FW-BVH27
ELEV. LKG. SOUTH
DETAIL-5
1 2-3-82 Double Support
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR CLASS-2 FEED WATER SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
ET 52-1
0


S
W
E
N
EL. 48'-0"
CONT. ON DWG
C-2409
SHEET 52-1
EL. 48'-0"
CONT. ON DWG
C-2409
SHEET 52-1
EL. 37'-11"
10"-18"-8"-1
9"-18"-8"-1
EL. 28'-11"
36°-23'
65°-35 VERT.
EL. 28'-11"
39°-31'
66°-35' VERT.
CONT. ON DWG
C-2409
SHEET 14-1
CLASS-2
CLASS-1
F032B
F032A
CLASS-2
CLASS-1
CONT ON DWG
C-2409
SHEET 13-1
CORRECTED PACT NO'S
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2
INSERVICE INSPECTION ISOMETRIC FOR
CLASS-2 FEED WATER SYSTEM
HANGER LOCATION
ASME CLASS 2
DRAWN D.E. JOHNSON
C-2409
53-1
0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

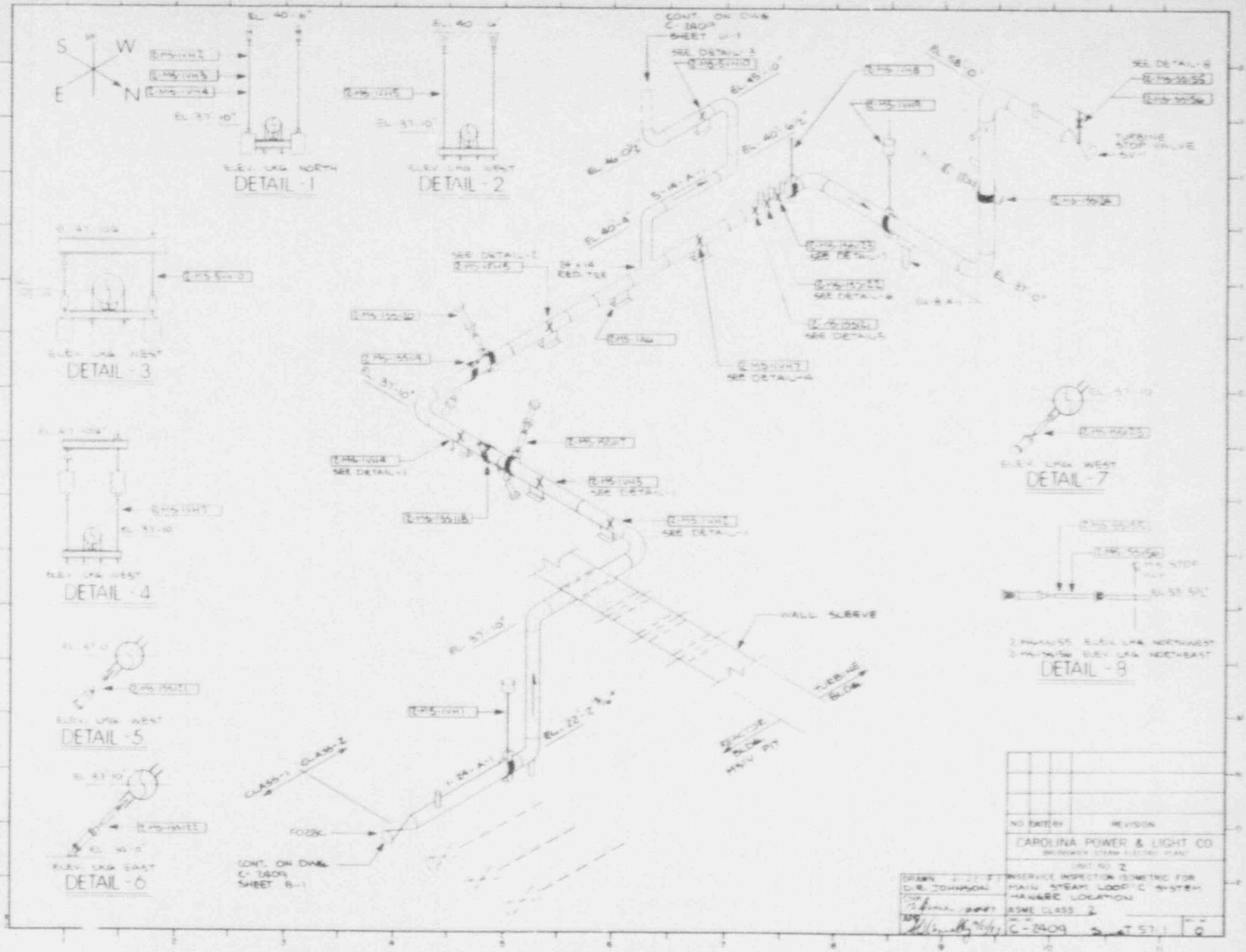
UNIT NO 2

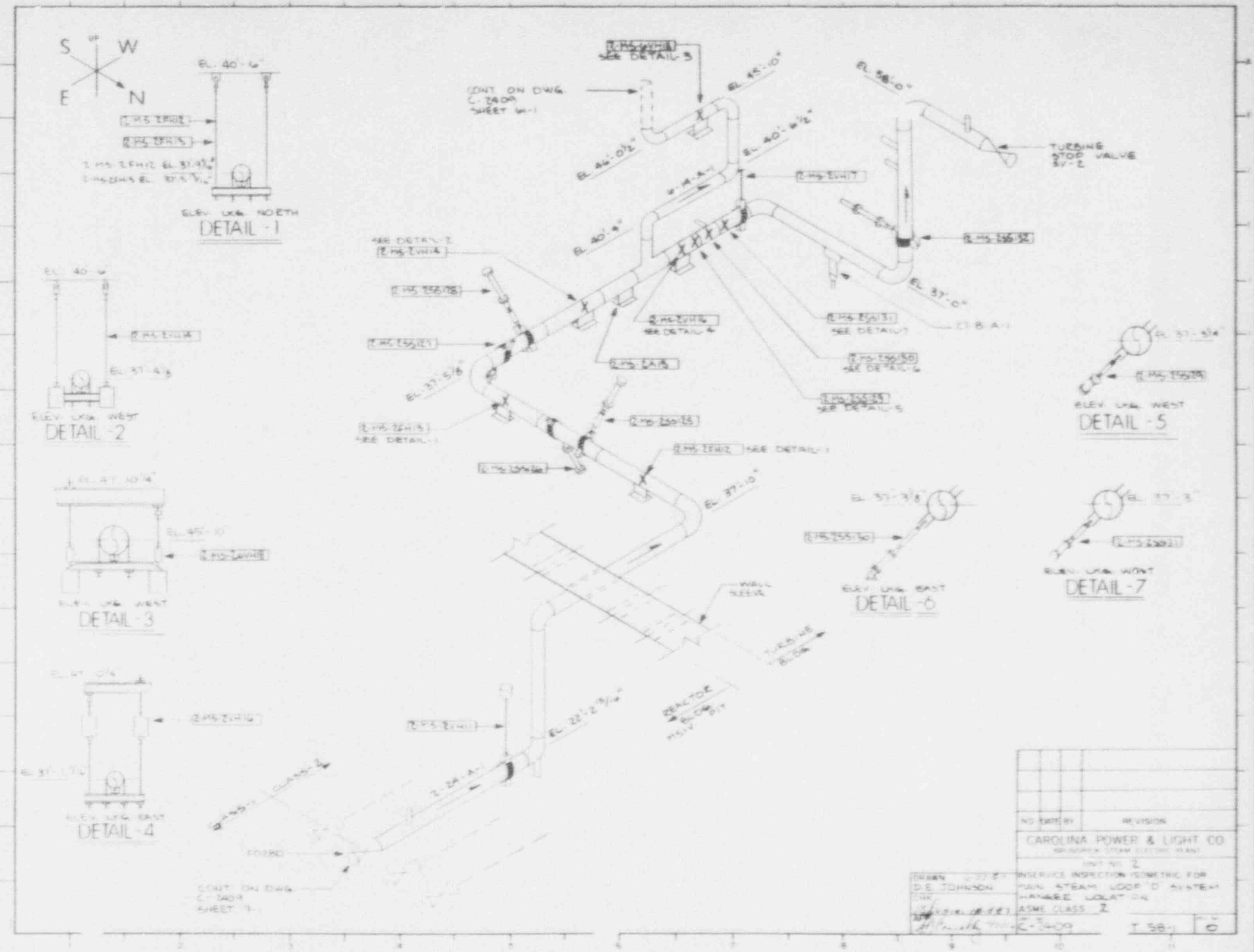
INSERVICE INSPECTION ISOMETRIC FOR CLASS-2 FEED WATER SYSTEM HANGER LOCATION

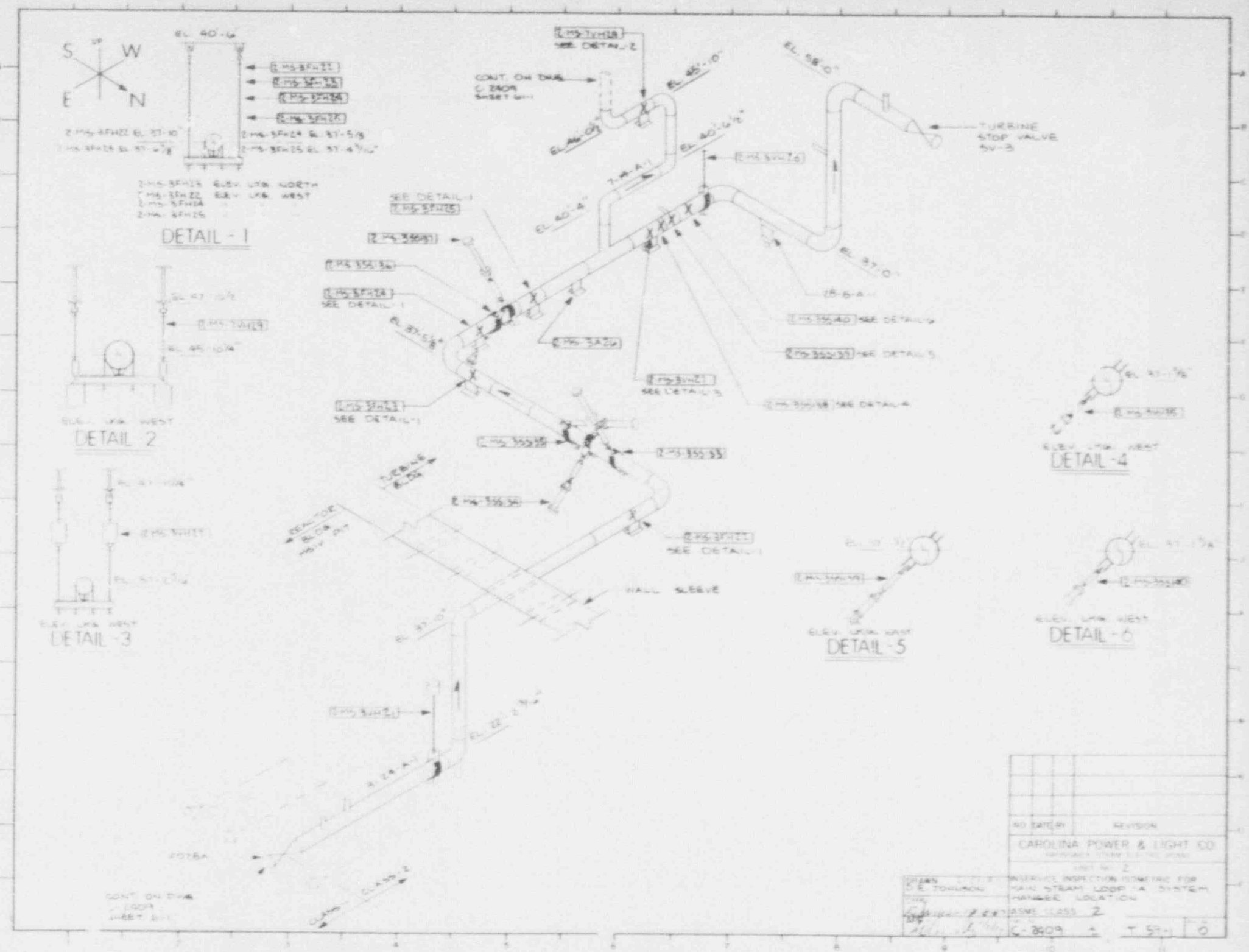
ASME CLASS 2

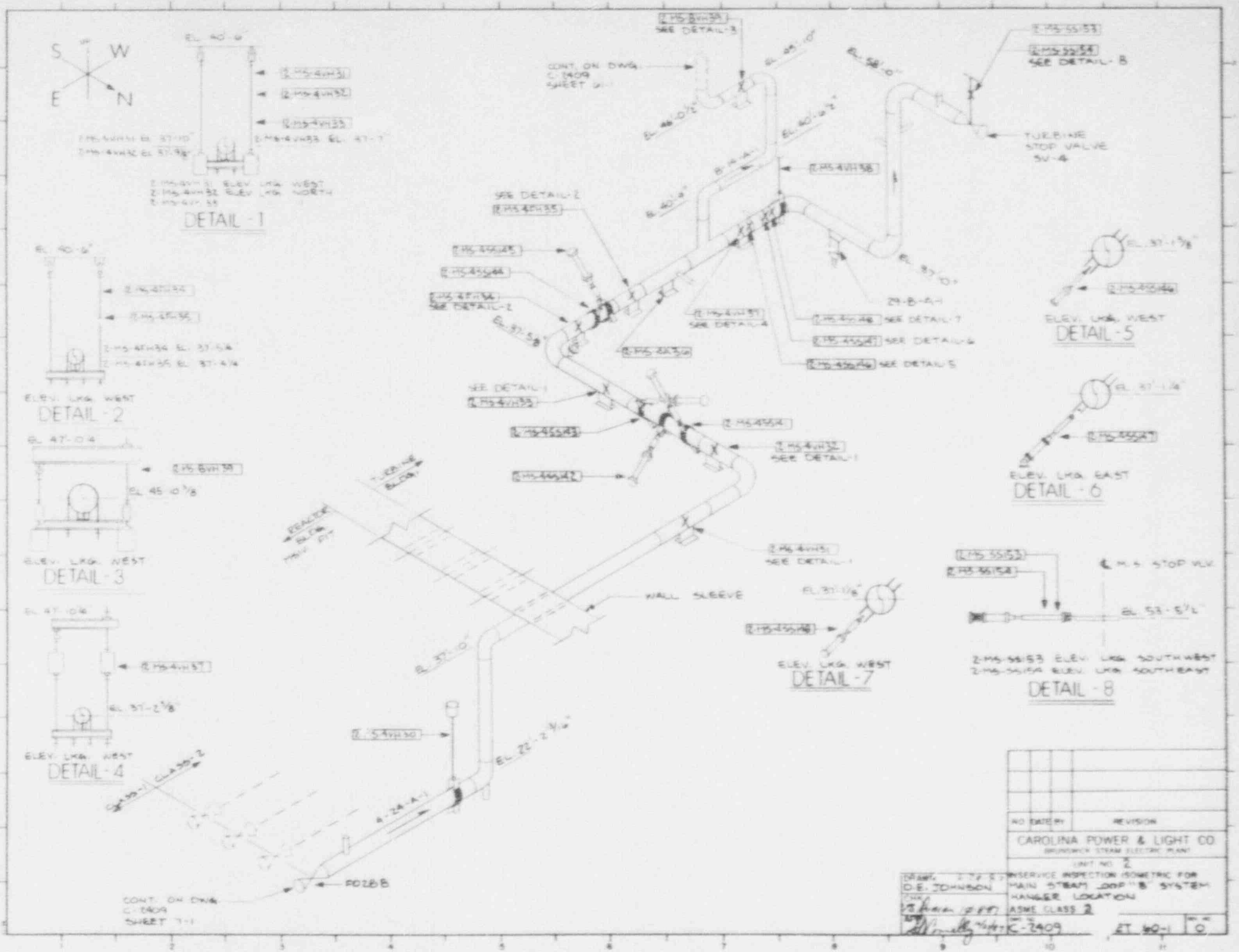
DRAWN 4-12-87 D.E. JOHNSON

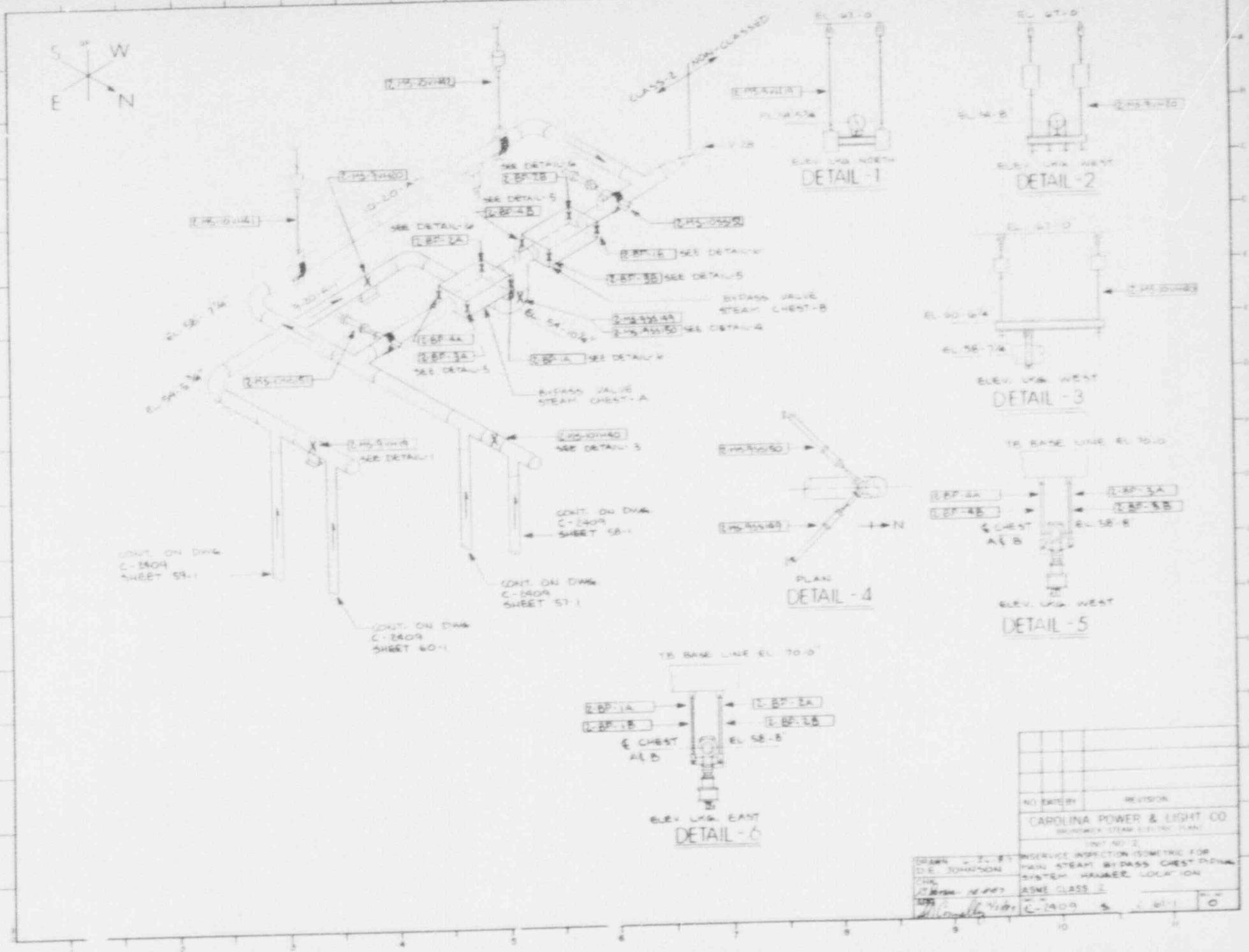
C-2409 T 54.1 REV. NO. 0

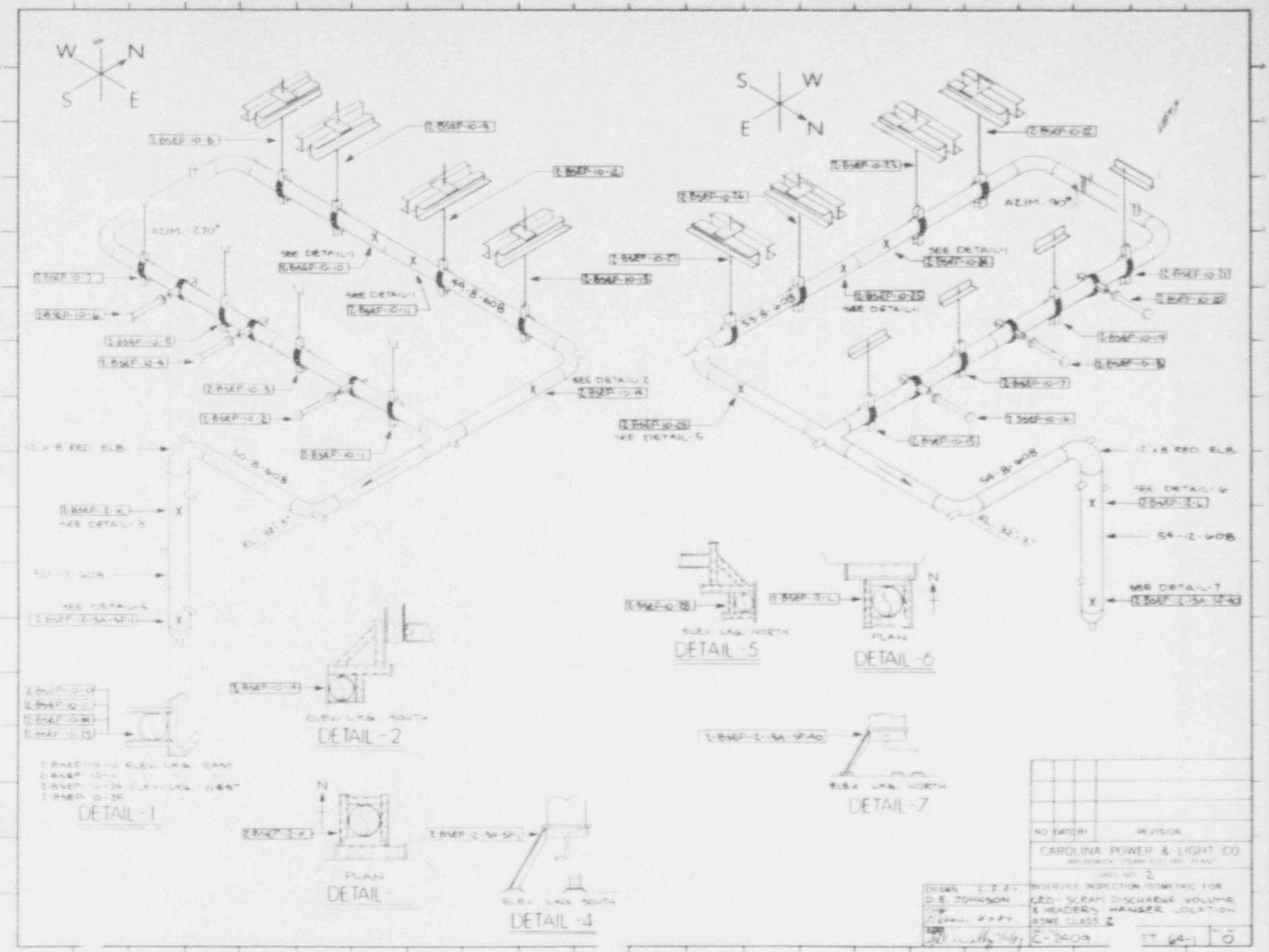

S
W
E
N
DETAIL - 1
DETAIL - 2
DETAIL - 3
DETAIL - 4
DETAIL - 5
DETAIL - 6
DETAIL - 7
DETAIL - 8
WALL SLEEVE
TURBINE STOP VALVE
CONT. ON DWG C-2409 SHEET B-1
CONT. ON DWG C-2409 SHEET U-1
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM LOOP "C" SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
SHT 57.1
REVISION

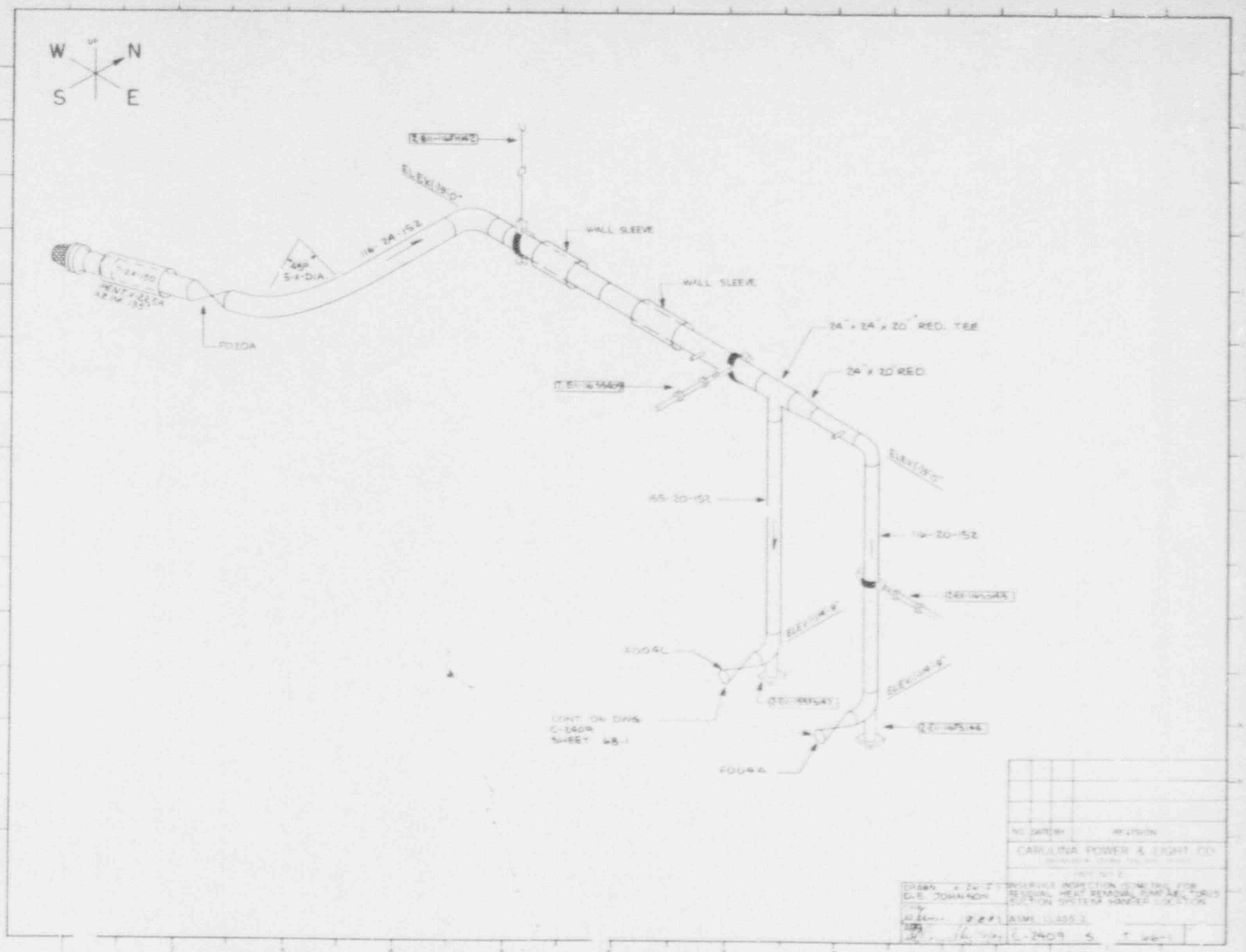

S
W
E
N
UP
EL. 40'-6"
ELEV. LKG. NORTH
DETAIL - 1
EL. 40'-6"
EL. 37'-4 1/8"
ELEV. LKG. WEST
DETAIL - 2
EL. 47'-10 3/4"
EL. 45'-10"
ELEV. LKG. WEST
DETAIL - 3
EL. 47'-0 1/4"
EL. 37'-1 7/8"
ELEV. LKG. EAST
DETAIL - 4
CONT. ON DWG. C-2409 SHEET 6-1
SEE DETAIL-3
EL. 45'-10"
EL. 44'-0 1/2"
EL. 40'-6 1/2"
EL. 40'-4"
SEE DETAIL-2
EL. 37'-5 1/8"
SEE DETAIL-1
SEE DETAIL-1
EL. 37'-10"
EL. 22'-2 3/4"
CLASS-2
2-24-A-1
FOUND
CONT. ON DWG. C-2409 SHEET 7-1
EL. 58'-0"
TURBINE STOP VALVE SV-2
EL. 37'-0"
2-8-A-1
SEE DETAIL-7
SEE DETAIL-6
SEE DETAIL-5
WALL SLEEVE
REACTOR BLDG. MSIV PIT
EL. 37'-3/8"
ELEV. LKG. EAST
DETAIL - 6
EL. 37'-3"
ELEV. LKG. WEST
DETAIL - 7
ELEV. LKG. WEST
DETAIL - 5
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM LOOP 'D' SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
T 58
0

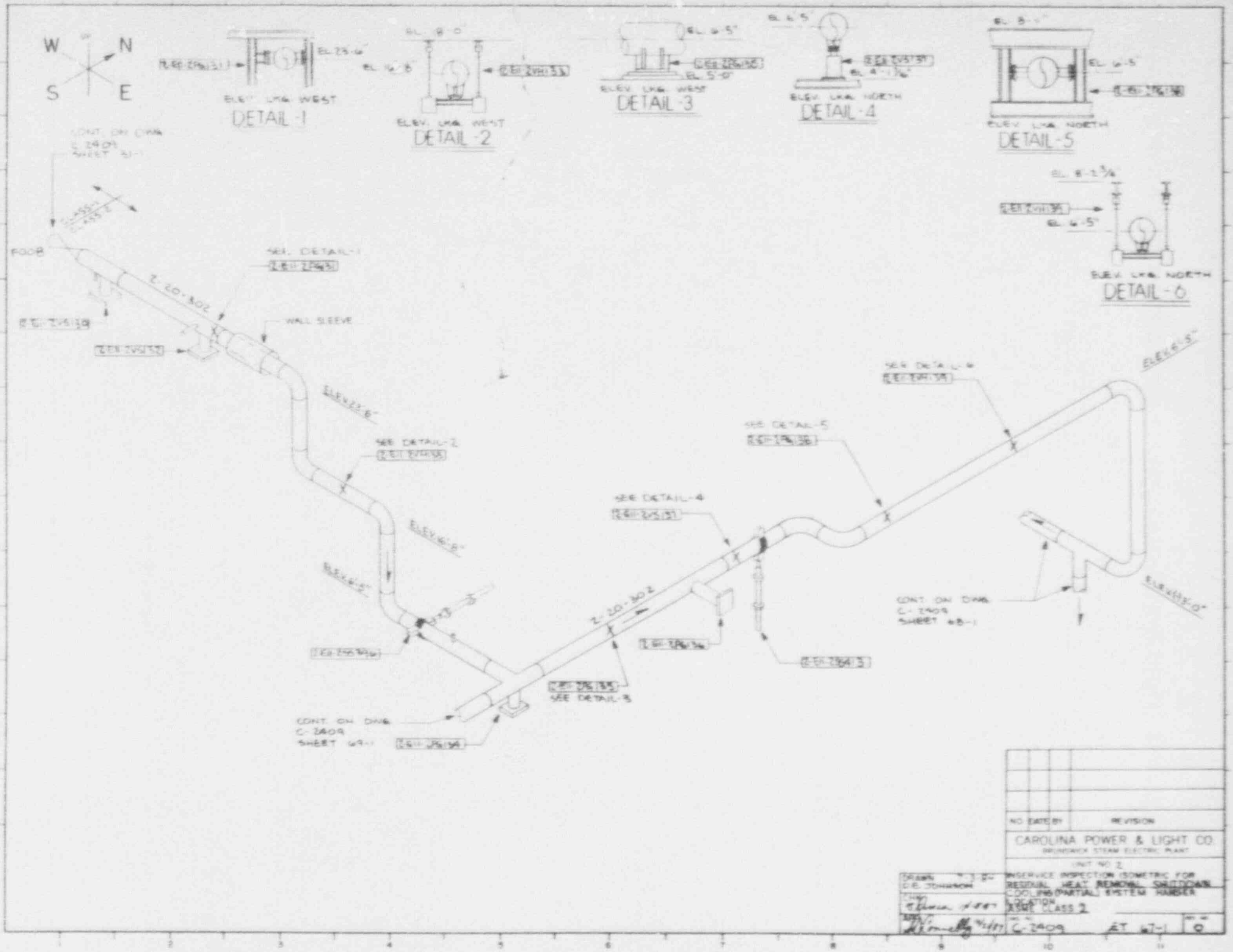

S
W
E
N
EL. 40'-6"
2-MS-8FH22 EL. 37'-10"
2-MS-8FH23 EL. 37'-4 7/8"
2-MS-8FH24 EL. 37'-5 1/8"
2-MS-8FH25 EL. 37'-4 7/16"
2-MS-8FH13 ELEV. LKG. NORTH
2-MS-8FH22 ELEV. LKG. WEST
2-MS-8FH24
2-MS-8FH25
DETAIL - 1
ELEV. LKG. WEST
DETAIL - 2
ELEV. LKG. WEST
DETAIL - 3
ELEV. LKG. WEST
DETAIL - 4
ELEV. LKG. WEST
DETAIL - 5
ELEV. LKG. WEST
DETAIL - 6
SEE DETAIL-2
CONT. ON DWG. C-2809 SHEET 6
EL. 45'-10"
EL. 58'-0"
EL. 46'-0"
EL. 40'-6 1/2"
TURBINE STOP VALVE SV-3
SEE DETAIL-1
EL. 40'-4"
EL. 37'-0"
28-6-A-1
SEE DETAIL-6
SEE DETAIL-5
SEE DETAIL-3
SEE DETAIL-4
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
WALL SLEEVE
EL. 37'-0"
EL. 22'-2 1/2"
CONT. ON DWG. C-2809 SHEET 6
CLASS 2
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
SHEET NO. 2
DRAWN S.E. TOMLINSON
INSERVICE INSPECTION DRAWING FOR MAIN STEAM LOOP 1A SYSTEM HANGER LOCATION
ASME CLASS 2
C-2809
T 59-1
0

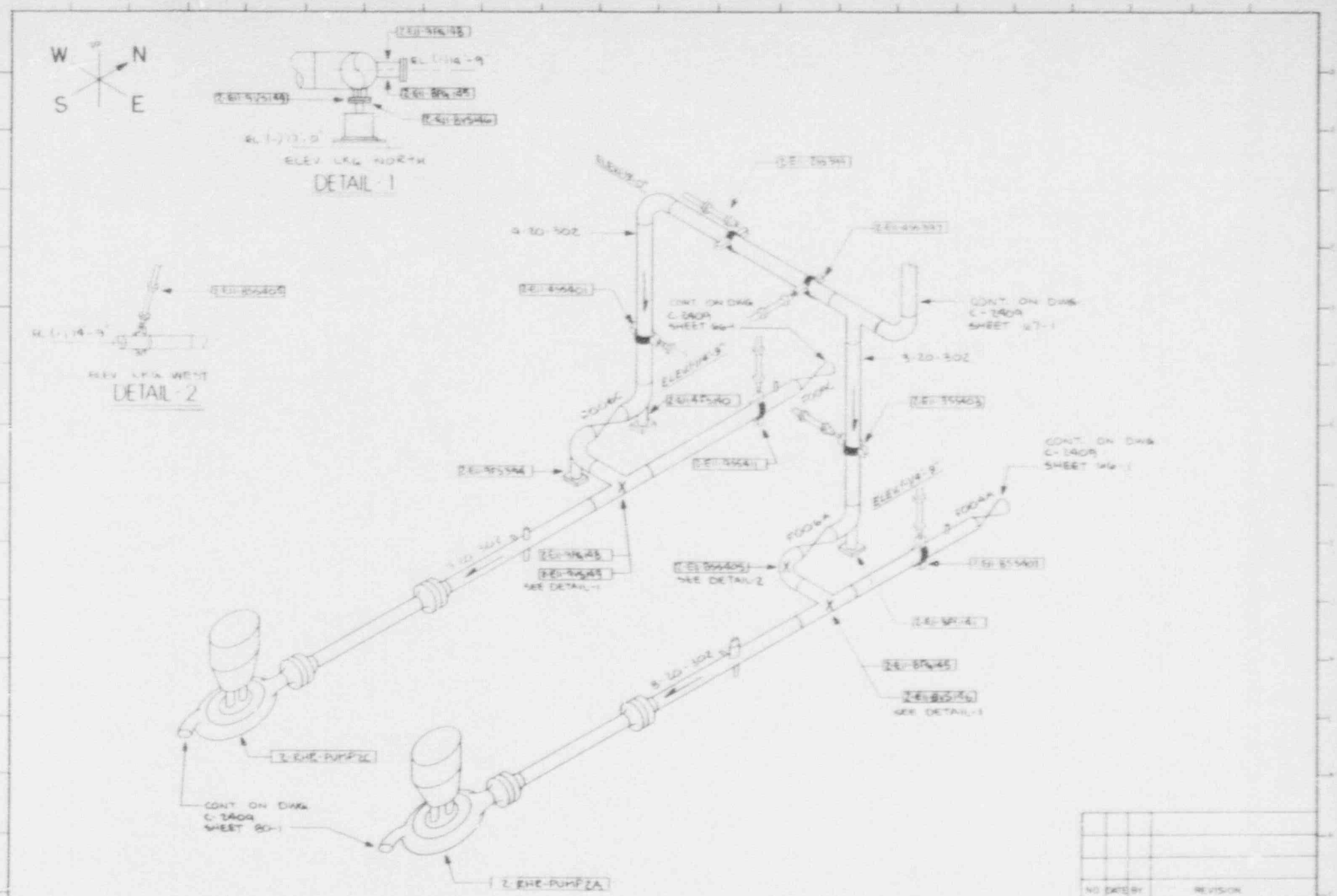

S
W
E
N
EL. 40'-6"
2-MS-4VH31
2-MS-4VH32
2-MS-4VH33
2-MS-4VH31 EL. 37'-10"
2-MS-4VH32 EL. 37'-9 1/8"
2-MS-4VH33 EL. 47'-7"
2-MS-4VH31 ELEV. LKG. WEST
2-MS-4VH32 ELEV. LKG. NORTH
2-MS-4VH33
DETAIL - 1
EL. 40'-6"
2-MS-4VH34
2-MS-4VH35
2-MS-4VH34 EL. 37'-5 1/8"
2-MS-4VH35 EL. 37'-4 1/4"
ELEV. LKG. WEST
DETAIL - 2
EL. 47'-0 1/4"
2-MS-8VH39
EL. 45'-0 7/8"
ELEV. LKG. WEST
DETAIL - 3
EL. 47'-0 1/4"
2-MS-4VH37
EL. 37'-2 3/8"
ELEV. LKG. WEST
DETAIL - 4
2-MS-8VH39
SEE DETAIL-3
CONT. ON DWG. C-2409 SHEET 6-1
EL. 45'-0"
EL. 46'-0 1/2"
EL. 40'-0 1/2"
EL. 40'-0"
EL. 58'-10"
2-MS-5553
2-MS-5552
SEE DETAIL-8
TURBINE STOP VALVE SV-4
2-MS-4VH38
SEE DETAIL-2
2-MS-4VH35
2-MS-4556
2-MS-4556
2-MS-4VH36
SEE DETAIL-2
EL. 37'-5 1/8"
2-MS-4VH37
SEE DETAIL-4
2-MS-4VH36
2-MS-4556
SEE DETAIL-7
2-MS-4556
SEE DETAIL-6
2-MS-4556
SEE DETAIL-5
EL. 37'-10"
29-B-4-H
SEE DETAIL-1
2-MS-4VH35
2-MS-4556
2-MS-4556
2-MS-4VH32
SEE DETAIL-1
2-MS-4556
2-MS-4556
REACTOR BLDG.
REACTOR BLDG. MAIN ST.
2-MS-4VH5
SEE DETAIL-1
WALL SLEEVE
EL. 37'-0"
2-SA-4VH30
EL. 22'-2 1/2"
A-24-A-1
CLASS-2
CLASS-1
FD28B
CONT. ON DWG. C-2409 SHEET 7-1
EL. 37'-1 3/8"
2-MS-4556
ELEV. LKG. WEST
DETAIL - 5
EL. 37'-1 1/4"
2-MS-4556
ELEV. LKG. EAST
DETAIL - 6
EL. 37'-1 1/8"
2-MS-4556
ELEV. LKG. WEST
DETAIL - 7
2-MS-5553
2-MS-5552
℄ M.S. STOP VLV.
EL. 53'-5 1/2"
2-MS-5553 ELEV. LKG. SOUTHWEST
2-MS-5552 ELEV. LKG. SOUTHEAST
DETAIL - 8
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN D.E. JOHNSON
CHK.
INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM LOOP "B" SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
ET 60-1
0


S
W
E
N
CLASS 2 NON-CLASSED
SEE DETAIL-6
SEE DETAIL-5
SEE DETAIL-6
BYPASS VALVE STEAM CHEST-B
SEE DETAIL-4
BYPASS VALVE STEAM CHEST-A
SEE DETAIL-1
SEE DETAIL-3
CONT. ON DWG C-2409 SHEET 58-1
CONT. ON DWG C-2409 SHEET 59-1
CONT. ON DWG C-2409 SHEET 57-1
CONT. ON DWG C-2409 SHEET 60-1
ELEV. LOOK NORTH
DETAIL-1
ELEV. LOOK WEST
DETAIL-2
ELEV. LOOK WEST
DETAIL-3
PLAN
DETAIL-4
TB BASE LINE EL 70-0
℄ CHEST A & B
EL 58-8
ELEV. LOOK WEST
DETAIL-5
TB BASE LINE EL 70-0
℄ CHEST A & B
EL 58-8
ELEV. LOOK EAST
DETAIL-6
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM BYPASS CHEST PIPING SYSTEM HANGER LOCATION
ASME CLASS 2
DRAWN D.E. JOHNSON
C-2409
0


W
N
S
E
AZIM. 270°
AZIM. 90°
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
SEE DETAIL-5
SEE DETAIL-6
SEE DETAIL-7
12 x 8 RED. ELB.
50-8-60B
54-8-60B
54-12-60B
50-12-60B
DETAIL-1
DETAIL-2
DETAIL-4
DETAIL-5
DETAIL-6
DETAIL-7
ELEV. LKG. NORTH
ELEV. LKG. SOUTH
ELEV. LKG. EAST
ELEV. LKG. WEST
PLAN
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RED. SCRAM DISCHARGE VOLUME
& HEADERS HANGER LOCATION
ASME CLASS 2
DRAWN D.E. JOHNSON
E-2409
ST 64-1
0


W
N
S
E
UP
ELEV 139'-0"
WALL SLEEVE
WALL SLEEVE
16-24-152
45°
5-X-DIA.
24"-150
PD20A
24" x 24" x 20" RED. TEE
24" x 20" RED.
ELEV 139'-0"
155-20-152
16-20-152
ELEV 114'-9"
FD04C
ELEV 114'-9"
CONT. ON DWG
C-2409
SHEET 68-1
FD04A
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
DRAWN
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL PUMPS & TORUS
SUTTON SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
S


W
N
S
E
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
ELEV. LKG. WEST
ELEV. LKG. NORTH
CONT. ON DWG. C-2409 SHEET 67-1
FOOB
2"-20-B02
WALL SLEEVE
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
SEE DETAIL-5
SEE DETAIL-6
ELEV. 22'-8"
ELEV. 16'-8"
ELEV. 6'-5"
ELEV. 13'-0"
CONT. ON DWG. C-2409 SHEET 69-1
CONT. ON DWG. C-2409 SHEET 68-1
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL SHUTDOWN
COOLING (PARTIAL) SYSTEM NUMBER
SECTION
ISSUE CLASS 2
C-2409
AT 67-1
0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO

BRUNSWICK STEAM ELECTRIC PLANT

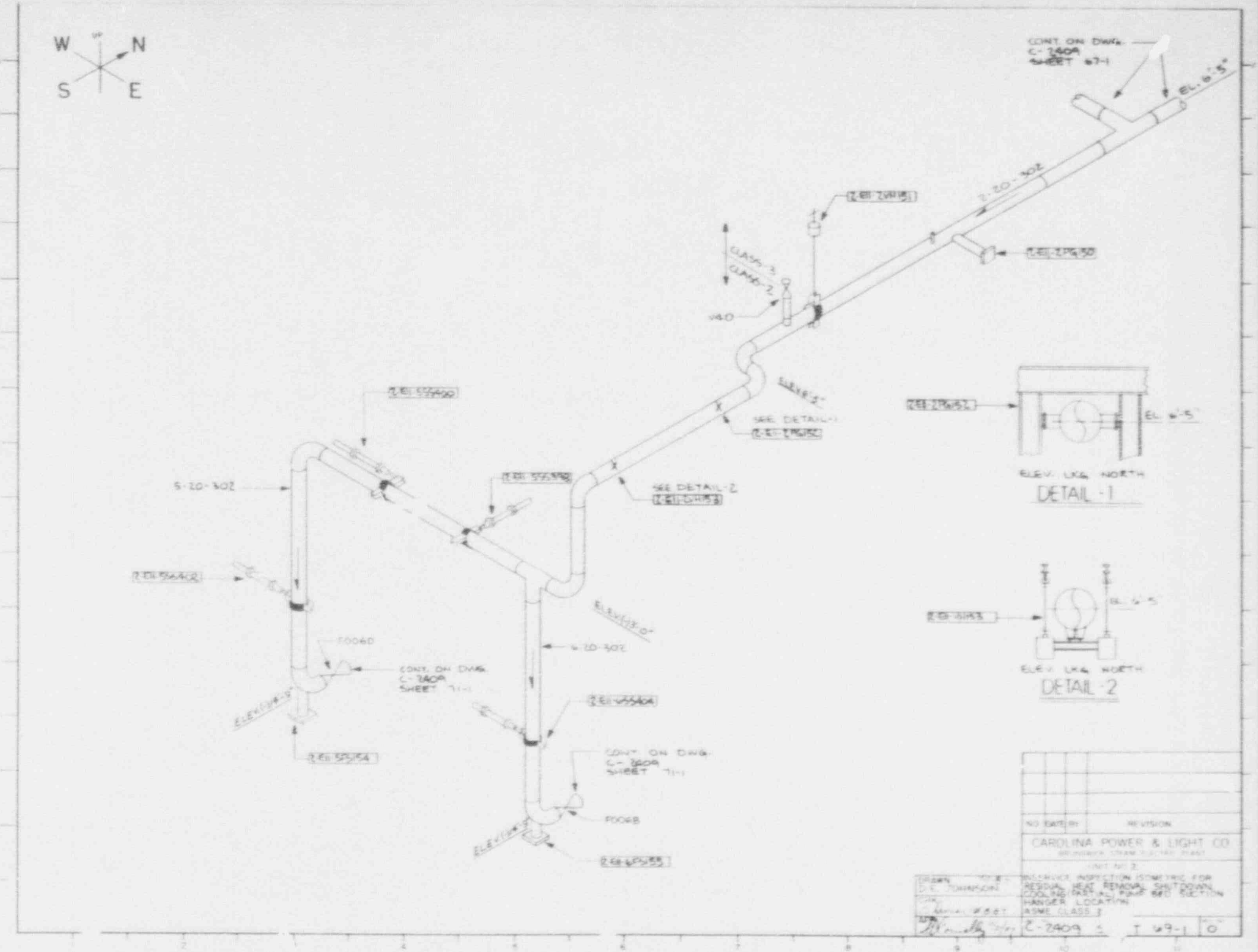
UNIT NO. 2

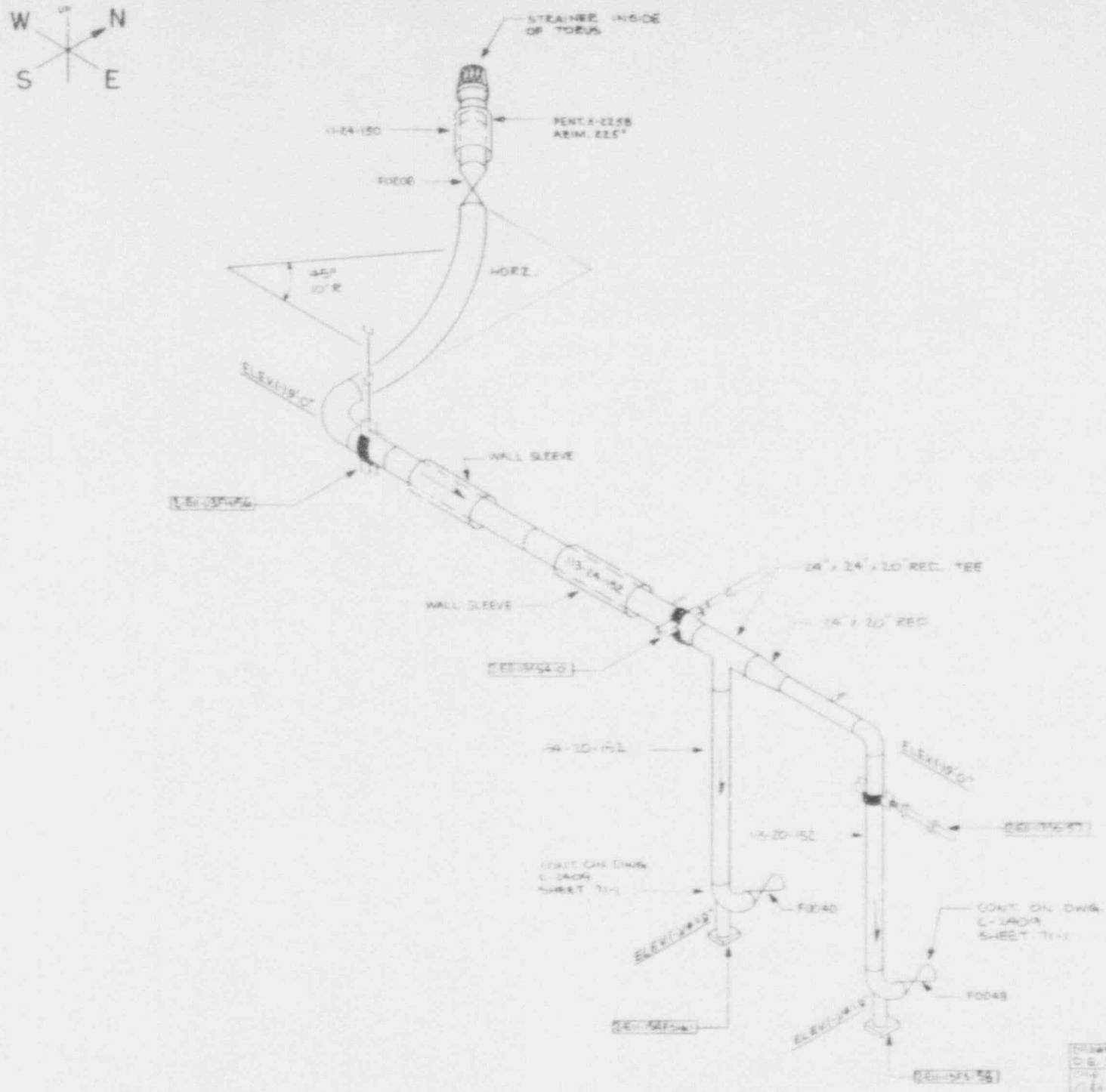
S.E. JOHNSON

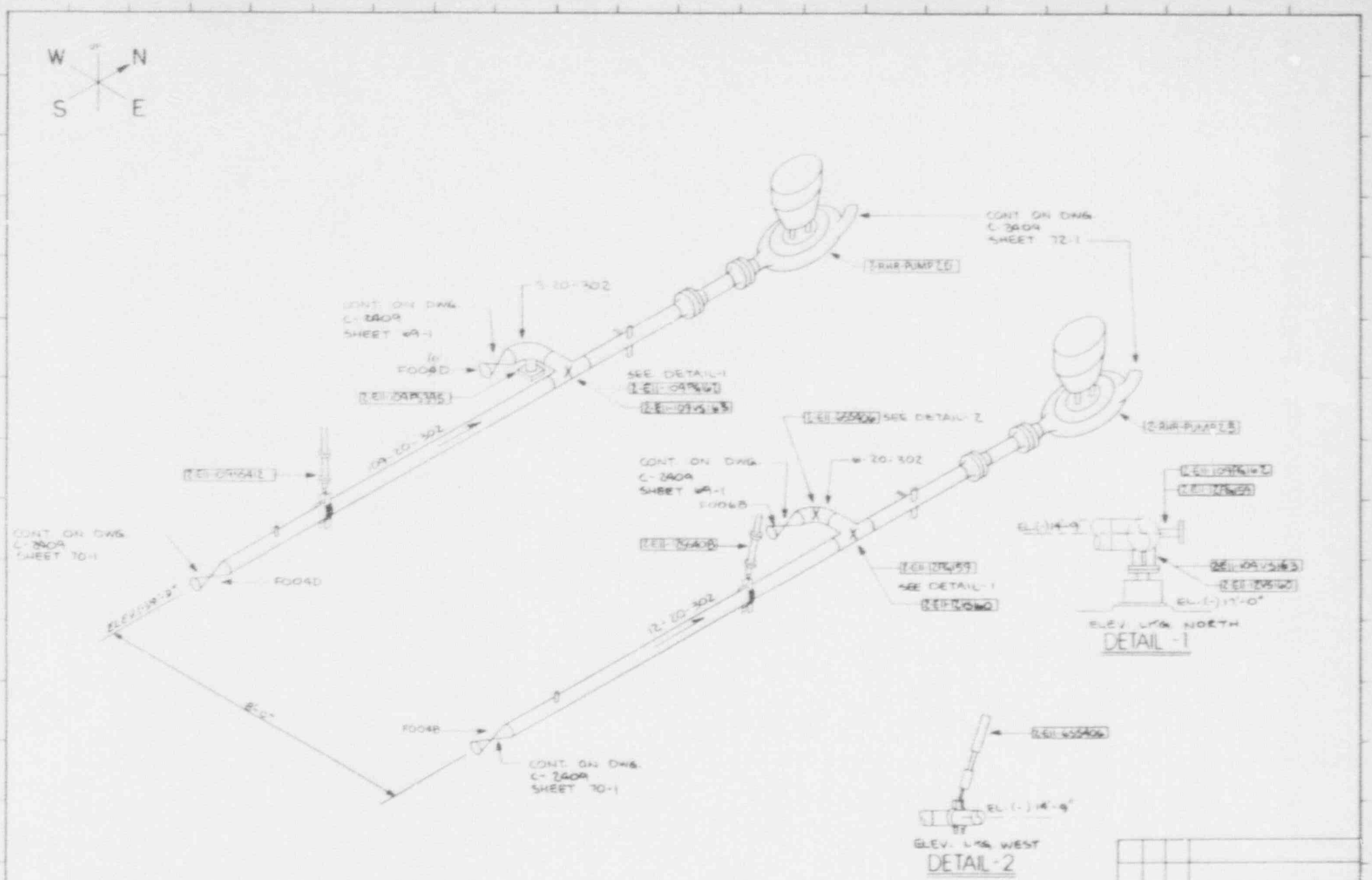
INSERVICE INSPECTION ISOMETRIC FOR REGIONAL HEAT REMOVAL SHUTDOWN COOLING (POST TERMINAL ARC) A.B.C PUMP SUCTION SYSTEM HANGER LOCATION ASME CLASS 2

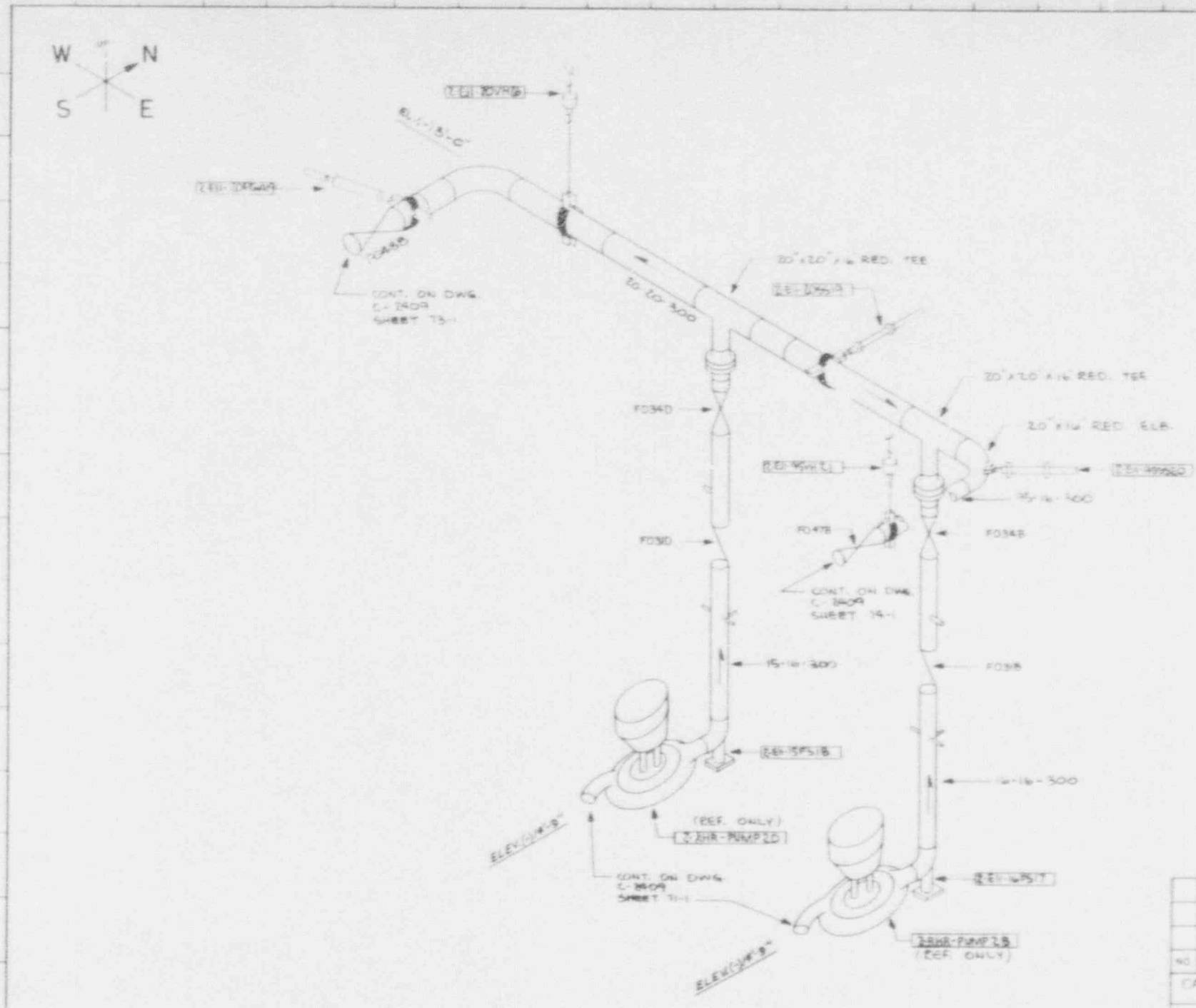
C-2409 SH. 80-1

REV. 0


W
N
S
E
CONT. ON DWG. C-2409 SHEET 67-1
EL. 6'-5"
2-20-302
CLASS-3
CLASS-2
V40
SEE DETAIL-1
SEE DETAIL-2
5-20-302
6-20-302
F006D
F006B
CONT. ON DWG. C-2409 SHEET 71-1
DETAIL-1
ELEV. LKG NORTH
DETAIL-2
ELEV. LKG NORTH
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
DRAWN D.C. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SHUTDOWN COOLING PARTIAL PIPE BED SECTION HANGER LOCATION
ASME CLASS 3
C-2409
T 69-1
0


W
N
S
E
STRAINER INSIDE OF TORUS
PENT.X-225B ABIM. 225°
HORZ.
45° 10" R
ELEV. 119'-0"
WALL SLEEVE
WALL SLEEVE
24" x 24" x 20" REC. TEE
24" x 20" RED
24-20-152
24-20-152
ELEV. 119'-0"
CONT. ON DWG. C-1409 SHEET 7
FOD40
CONT. ON DWG. C-1409 SHEET 7
FOD48
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
DRAWN D.B. JOHNSON
INSERVICE INSPECTION (SCHEDULE) FOR RESIDUAL HEAT REMOVAL PUMP B&C TORUS SUCTION HANGER LOCATION
ASME CLASS 2
C-2401
0


W
N
S
E
CONT. ON DWG.
C-2409
SHEET 72-1
1-RHR-PUMP 1B
S-20-302
CONT. ON DWG.
C-2409
SHEET 69-1
FO04D
SEE DETAIL-1
SEE DETAIL-2
2-RHR-PUMP 2B
CONT. ON DWG.
C-2409
SHEET 69-1
F0068
SEE DETAIL-1
CONT. ON DWG.
C-2409
SHEET 70-1
FO04D
FO04B
CONT. ON DWG.
C-2409
SHEET 70-1
ELEV. LOOK NORTH
DETAIL-1
ELEV. LOOK WEST
DETAIL-2
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
D.E. JOHNSON
ASME CLASS 2
C-2409
SHT 71-1



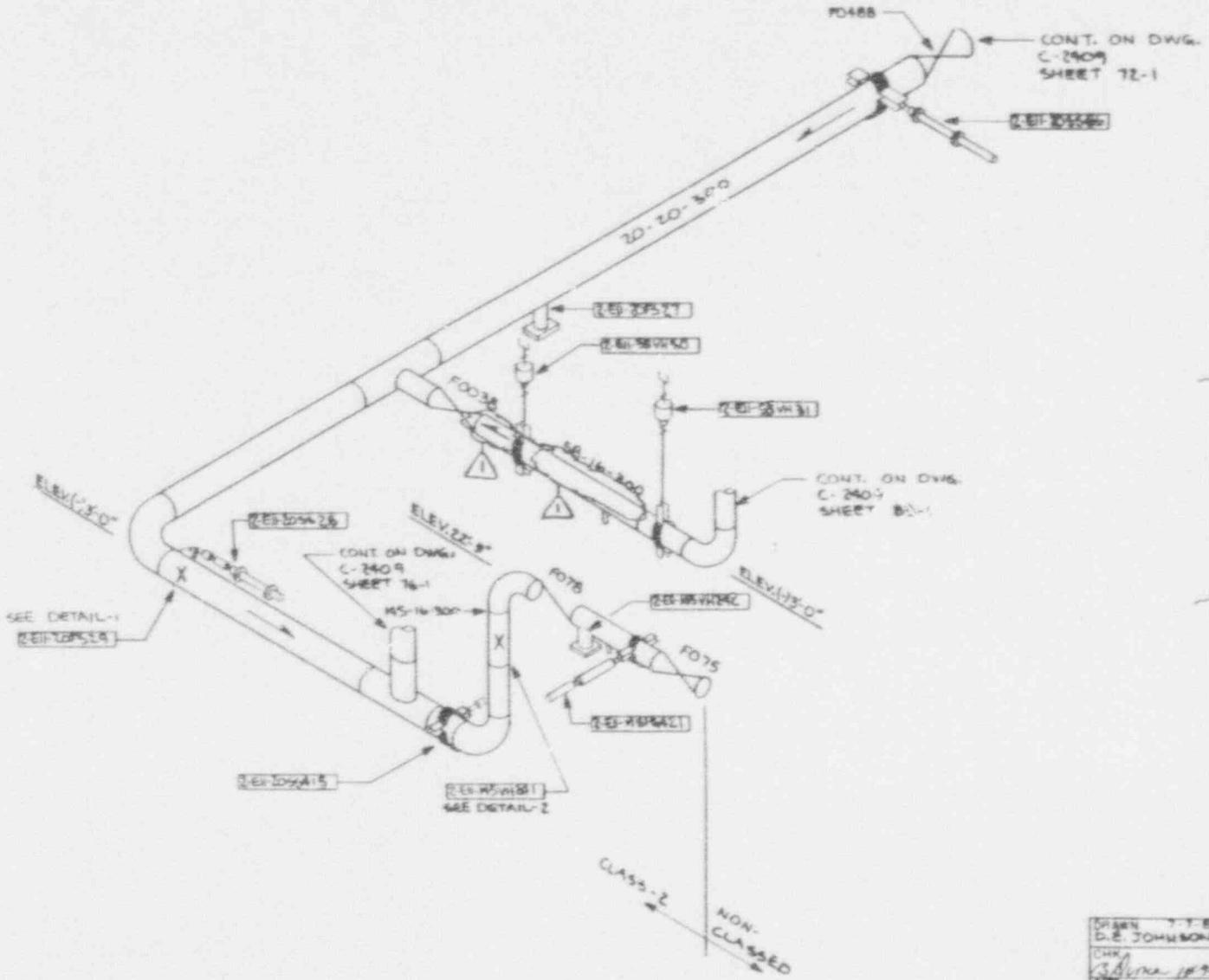
NO	DATE	BY	REVISION

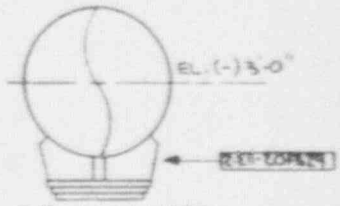
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

DRAWN T.R.E.
D.E. JOHNSON

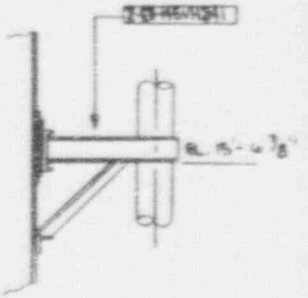
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL PUMP RHR DISCHARGE TO HEADER SYSTEM HANGER LOCATI
ASME CLASS 2

C-2409 SHEET 72-1 0





DETAIL - 1



DETAIL - 2

NO	DATE	BY	REVISION
1	7-7-83		Change Flow Direction

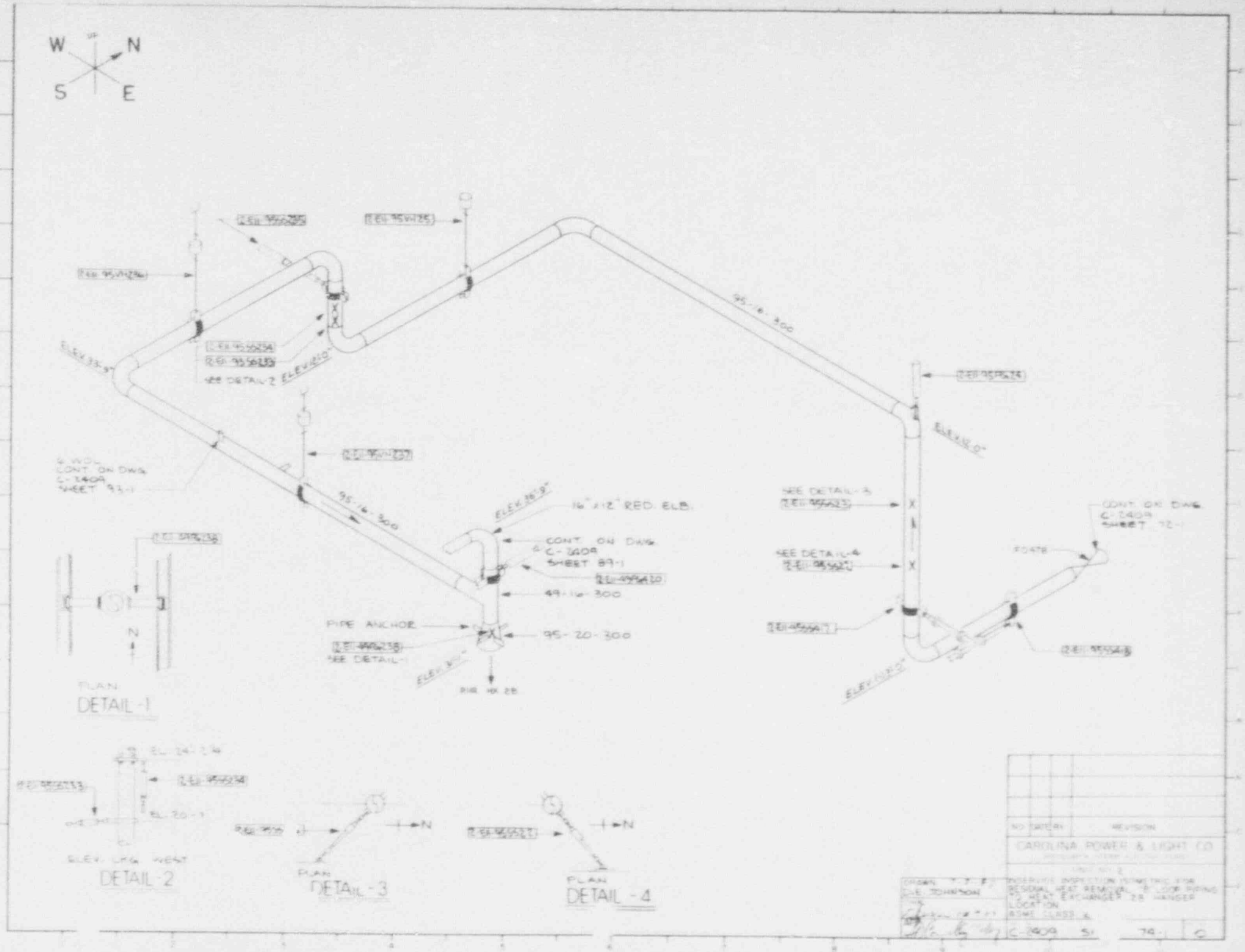
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2

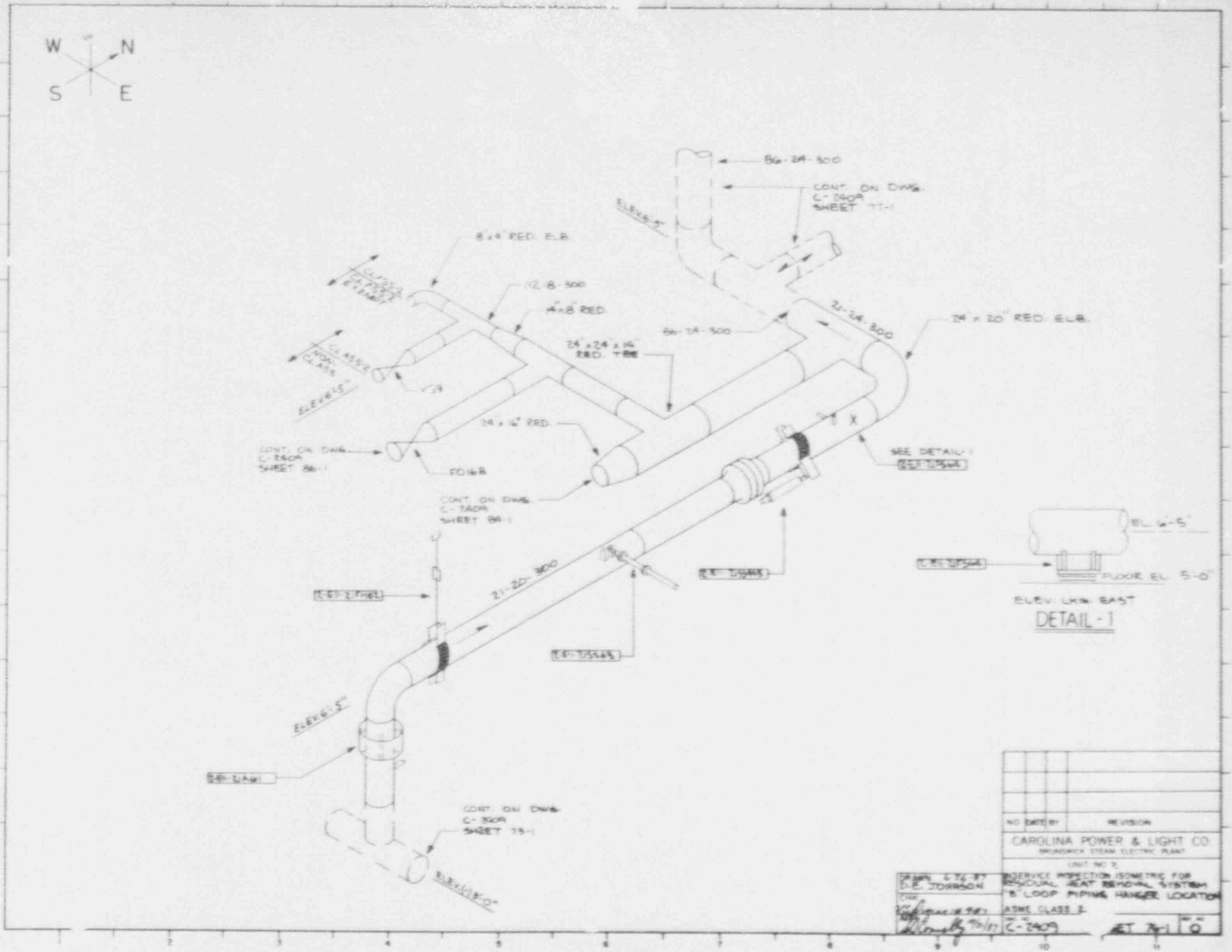
DRAWN 7-7-83 D.E. JOHNSON
CHK
APP

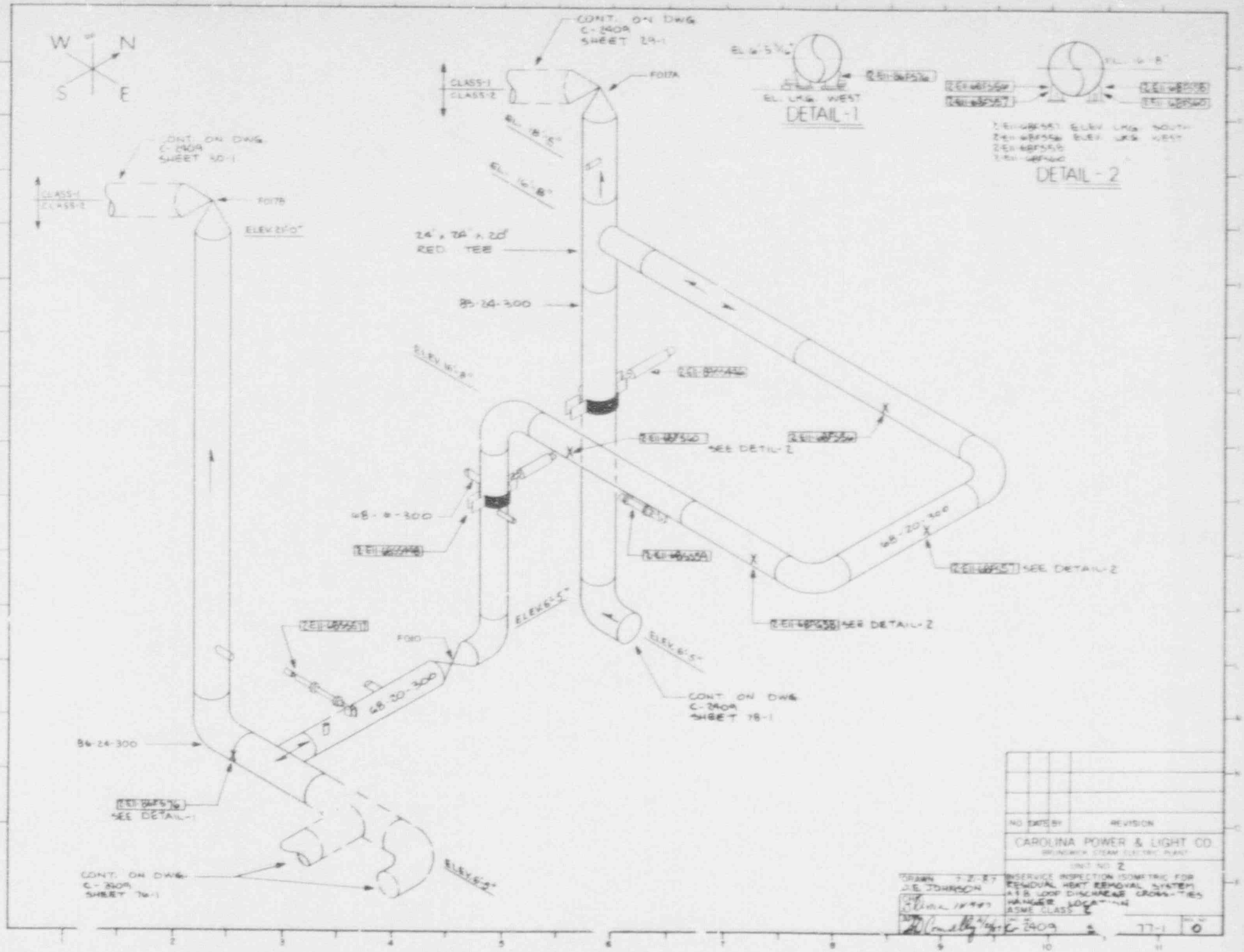
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL "A" LOOP PUMP DISCHARGE HEADER SYSTEM HANGER LOCATION
ASME CLASS 2

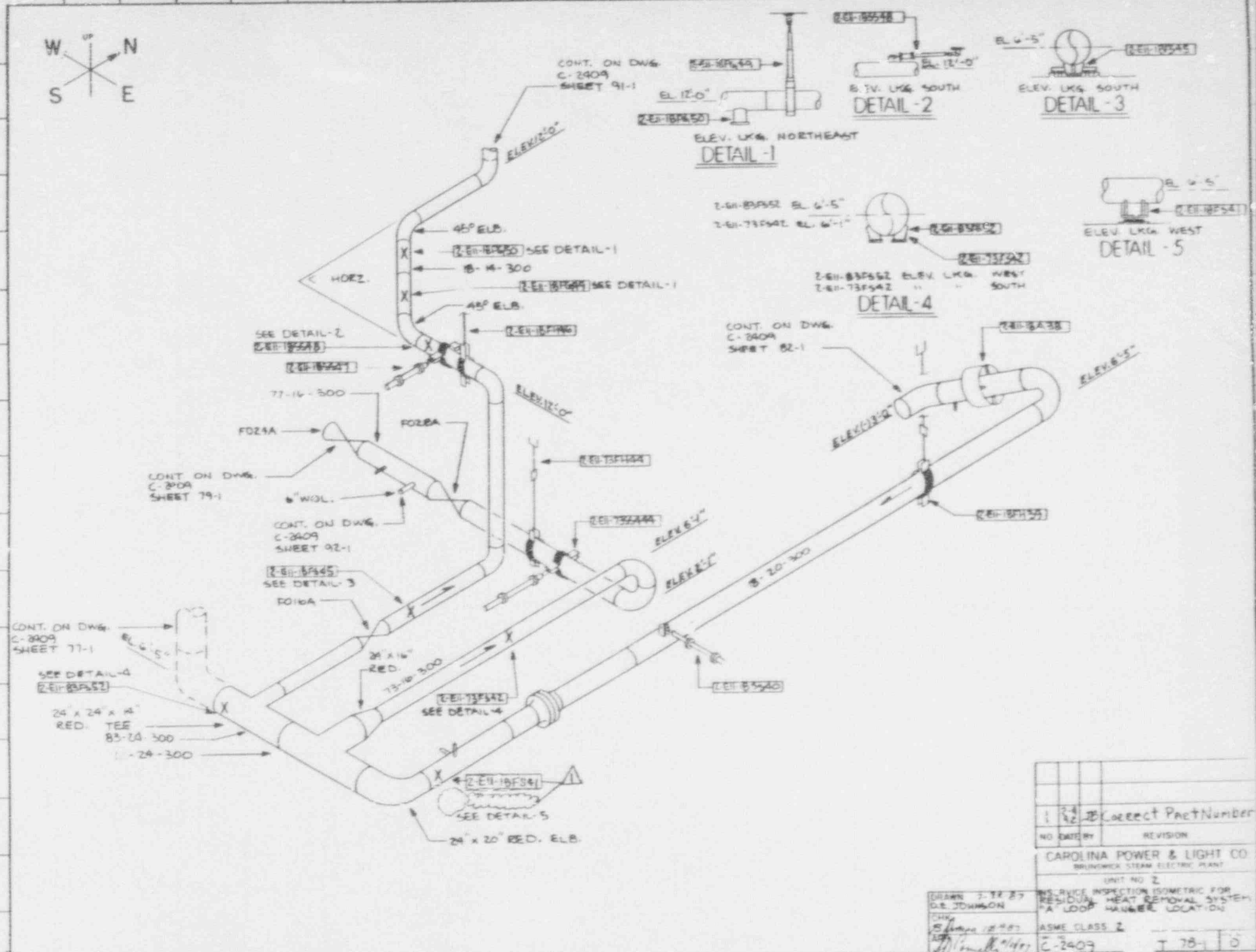
2-2409

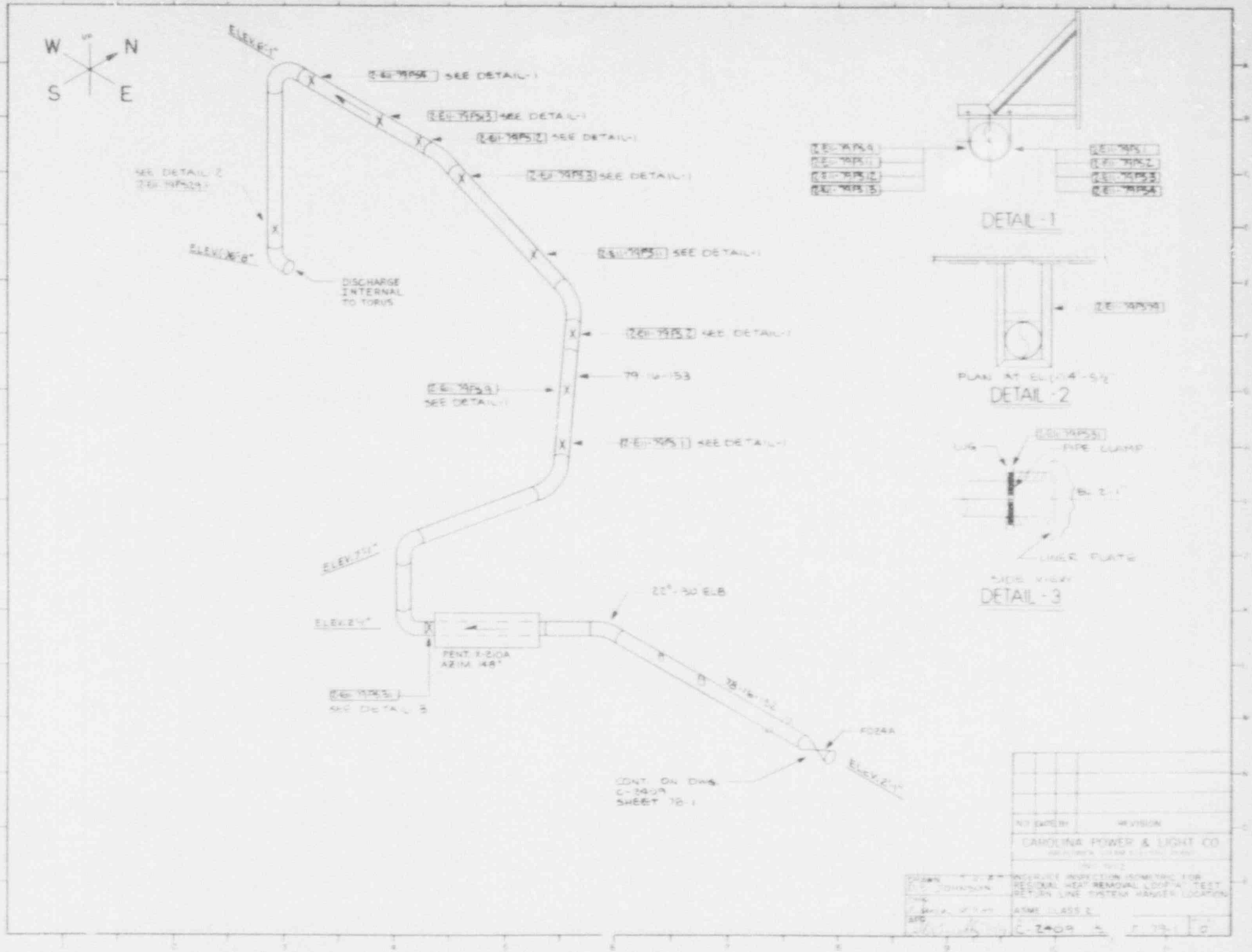
ET 73-1 | 0

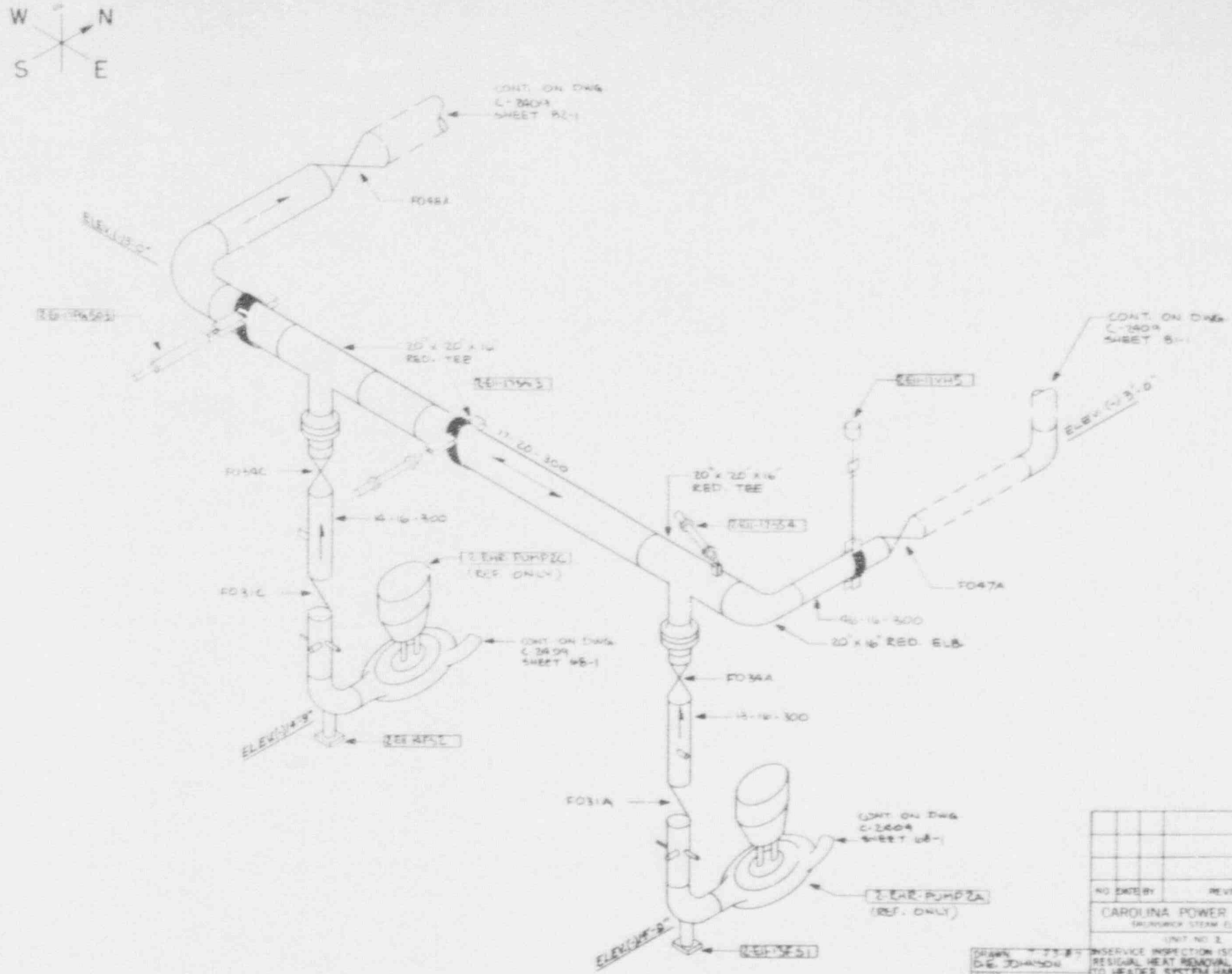

W
N
S
E
95-6-300
ELEV. 33'-9"
ELEV. 21'-0"
SEE DETAIL-2
6 WOL
CONT. ON DWG
C-2409
SHEET 93-1
95-16-300
ELEV. 16'-9"
16" x 12" RED. ELB.
CONT. ON DWG
C-2409
SHEET 89-1
49-16-300
PIPE ANCHOR
95-20-300
SEE DETAIL-1
ELEV. 3'-1"
PIPE HX 2B
ELEV. 12'-0"
SEE DETAIL-3
SEE DETAIL-4
CONT. ON DWG
C-2409
SHEET 72-1
F0478
ELEV. 11'-0"
PLAN
DETAIL-1
EL. 24'-2 1/4"
EL. 20'-1"
ELEV. LKG. WEST
DETAIL-2
PLAN
DETAIL-3
PLAN
DETAIL-4
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
DRAWN
E.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL & LOOP PIPING
2 HEAT EXCHANGER 2B HANGER
LOCATION
ASME CLASS 2
C-2409
51
79-1
C

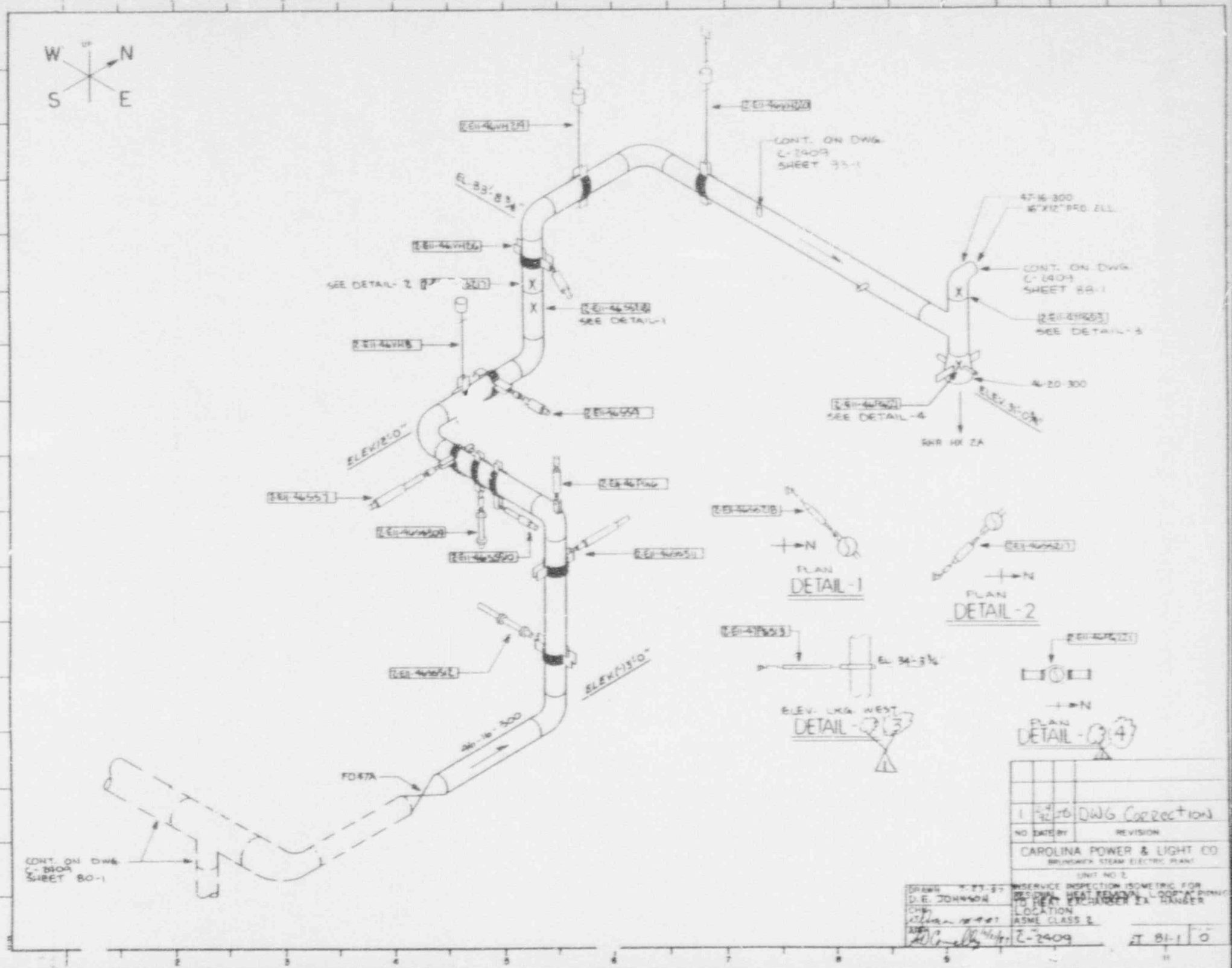

W
N
S
E
86-24-300
CONT. ON DWG. C-2409A SHEET 77-1
ELEV. 5'
8 x 4" RED. ELB.
12-8-300
14"x8" RED.
24" x 24" x 16" RED. TEE
86-24-300
24-24-300
24" x 20" RED. ELB.
CLASS 2
CLASS 2
ELEV. 6'-5"
24 x 16" RED.
CONT. ON DWG. C-2409A SHEET 86-1
FD16B
CONT. ON DWG. C-2409A SHEET 88-1
SEE DETAIL-1
21-20-300
ELEV. 6'-5"
CONT. ON DWG. C-2409A SHEET 73-1
ELEV. 13'-0"
EL. 6'-5"
FLOOR EL. 5'-0"
ELEV. LOOK EAST
DETAIL-1
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM "B" LOOP PIPING HANGER LOCATION
ASME CLASS 2
C-2409
SHT. 73-1
Q

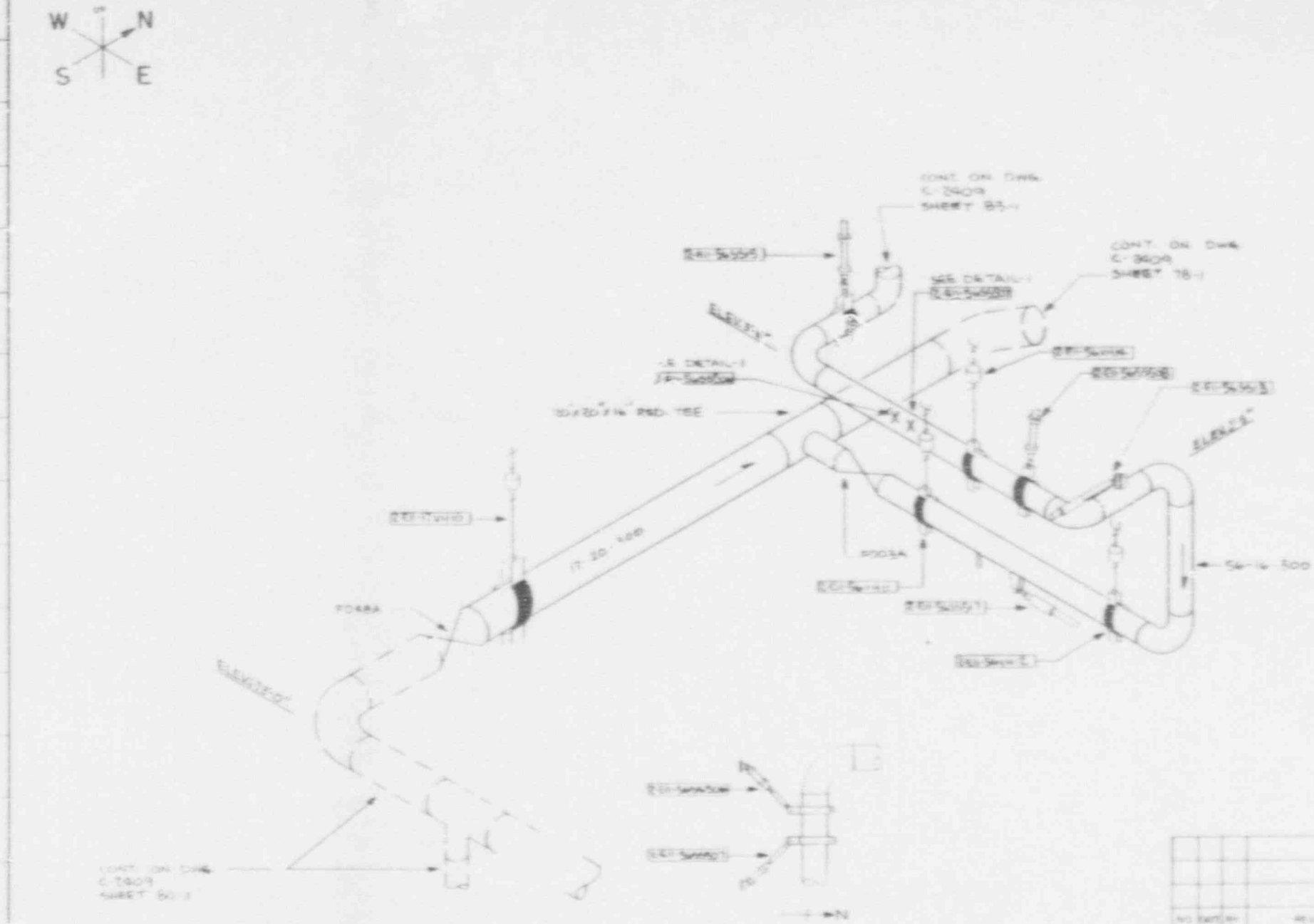

W
N
S
E
CONT. ON DWG C-2409 SHEET 29-1
CLASS-1
CLASS-2
F017A
EL. 18'-5"
EL. 16'-8"
CONT. ON DWG C-2409 SHEET 40-1
F017B
ELEV. 21'-0"
24" x 24" x 20" RED. TEE
B5-24-300
ELEV. 16'-8"
SEE DETAIL-2
48-8-300
F010
ELEV. 6'-5"
48-20-300
SEE DETAIL-2
CONT. ON DWG C-2409 SHEET 78-1
B6-24-300
SEE DETAIL-1
CONT. ON DWG C-2409 SHEET 76-1
EL. 6'-5 1/2"
EL. LMG. WEST
DETAIL-1
EL. 6'-8"
ELEV. LMG. SOUTH
ELEV. LMG. WEST
DETAIL-2
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 7-2-87 J.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM A & B LOOP DISCHARGE CROSS-TIES HANGER LOCATION
ASME CLASS 2
C-2409
77-1
0

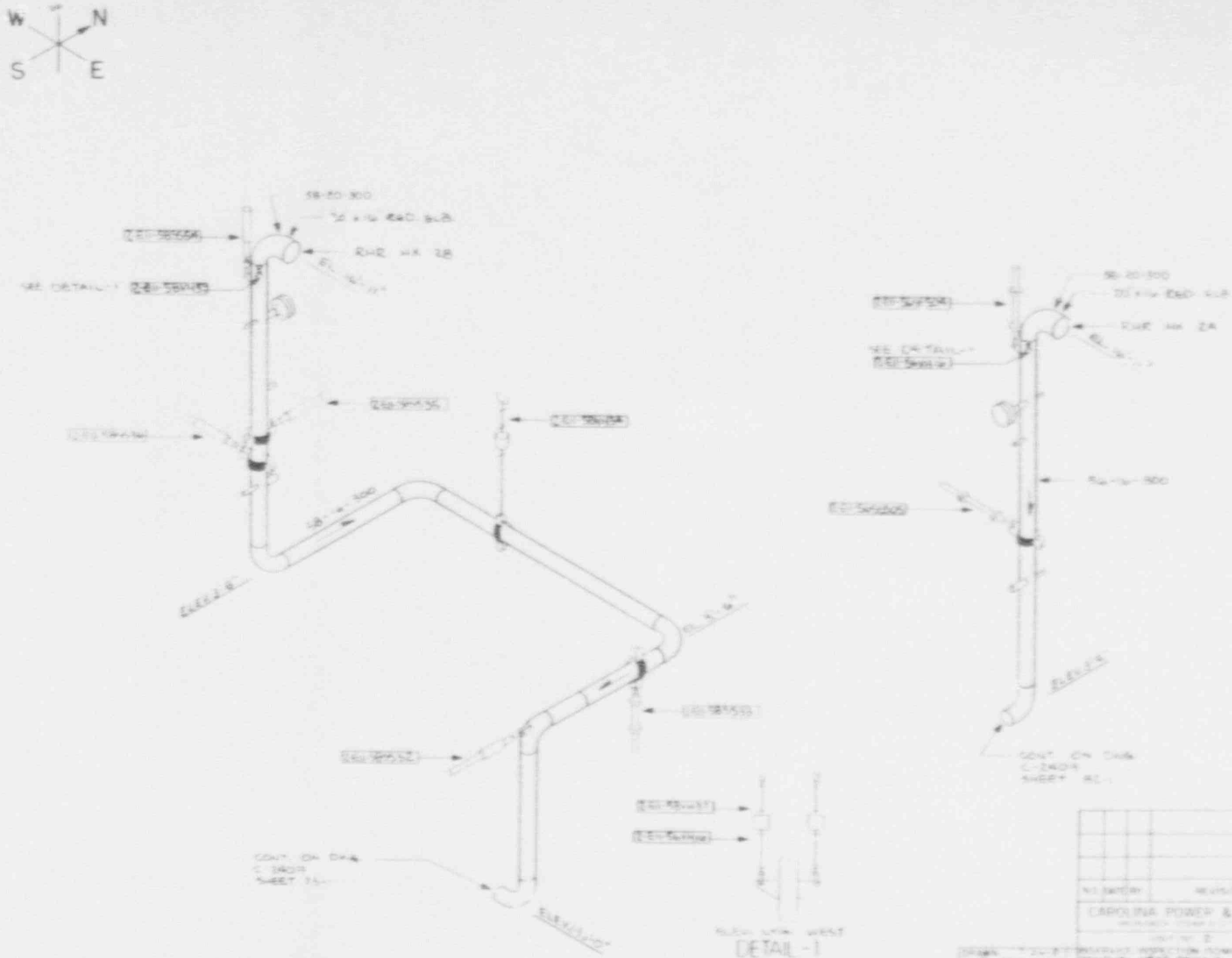

W
N
S
E
CONT. ON DWG. C-2409 SHEET 91-1
ELEV. 12'-0"
45° ELB.
SEE DETAIL-1
18-14-300
SEE DETAIL-1
45° ELB.
HORZ.
SEE DETAIL-2
77-16-300
FO24A
FO28A
CONT. ON DWG. C-2409 SHEET 79-1
6" WOL.
CONT. ON DWG. C-2409 SHEET 92-1
SEE DETAIL-3
FO16A
CONT. ON DWG. C-2409 SHEET 77-1
EL. 6'-5"
SEE DETAIL-4
24" x 24" x 14" RED. TEE
B3-24-300
24" x 16" RED.
73-16-300
SEE DETAIL-4
SEE DETAIL-5
24" x 20" RED. ELB.
ELEV. 12'-0"
ELEV. 6'-4"
ELEV. 6'-5"
18-20-300
CONT. ON DWG. C-2409 SHEET 82-1
ELEV. 6'-5"
ELEV. 12'-0"
EL. 12'-0"
ELEV. LKG. NORTHEAST
DETAIL-1
S. IV. LKG. SOUTH
DETAIL-2
EL. 6'-5"
ELEV. LKG. SOUTH
DETAIL-3
EL. 6'-5"
ELEV. LKG. WEST
DETAIL-5
EL. 6'-5"
EL. 6'-1"
ELEV. LKG. WEST
SOUTH
DETAIL-4
1
2-4-82
Correct Part Number
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
MS-RHCE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM "A" LOOP HANGER LOCATION
DRAWN 7-28-83 D.E. JOHNSON
ASME CLASS 2
C-2409
T 78-1
0

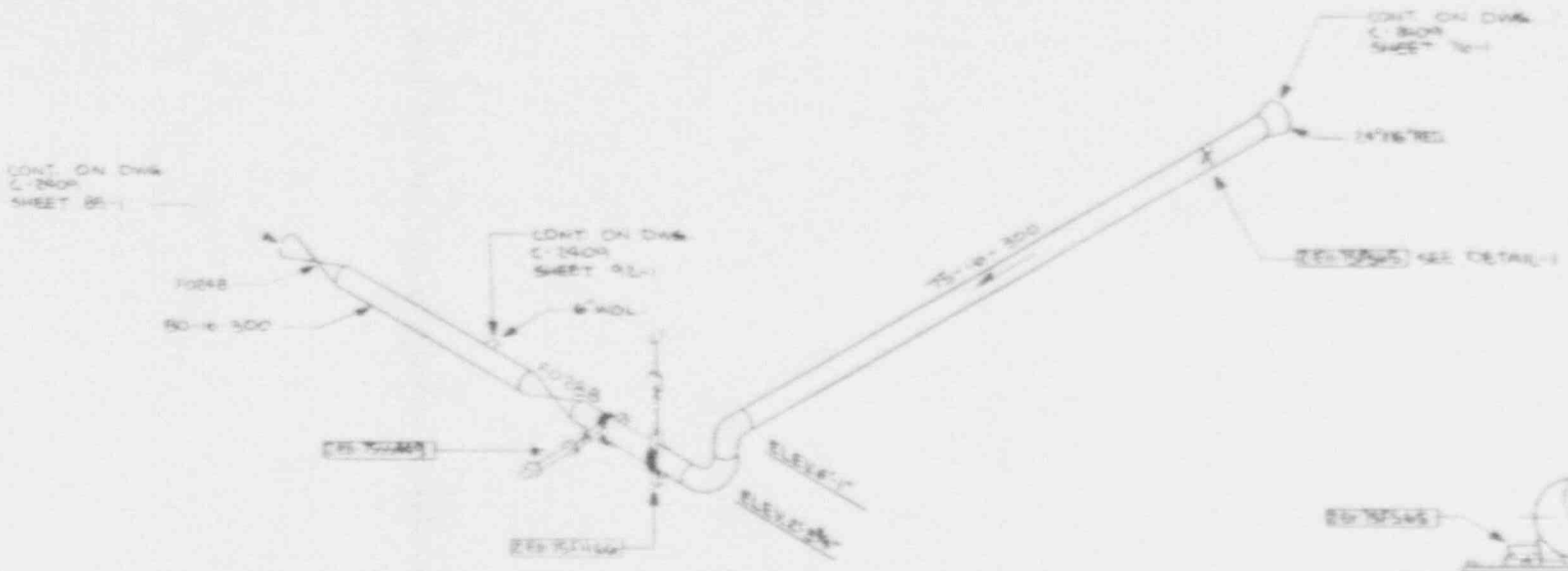

W
N
S
E
ELEV. 8'
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL 2
ELEV. 16'-8"
DISCHARGE
INTERNAL
TO TORUS
79 16-153
ELEV. 7'-1"
ELEV. 2'-1"
22°-30 ELB
PENT. X-210A
AZIM. 148°
SEE DETAIL 3
FO24A
ELEV. 2'-1"
CONT. ON DWG.
C-2409
SHEET 78-1
DETAIL-1
PLAN AT EL. 14'-5½"
DETAIL-2
LUG
PIPE CLAMP
EL. 2'-1"
LINER PLATE
SIDE VIEW
DETAIL-3
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
ASME CLASS 2
C-2409


W
N
S
E
CONT. ON DWG C-2809 SHEET B2-1
F048A
ELEV. 123'-0"
REF. 1-1965-S1
20" x 20" x 16" RED. TEE
REF. 1-1965-S
14-20-300
F049C
14-16-300
REF. 1-1964
2 EHR PUMP 2C (REF. ONLY)
F051C
CONT. ON DWG C-2809 SHEET B6-1
ELEV. 94'-9"
REF. 1-1965-S1
CONT. ON DWG C-2809 SHEET B1-1
REF. 1-1965
ELEV. (-) 3'-0"
20" x 20" x 16" RED. TEE
F047A
14-16-300
20" x 16" RED. ELB.
F054A
14-16-300
F051A
CONT. ON DWG C-2809 SHEET B8-1
2 EHR PUMP 2A (REF. ONLY)
ELEV. 94'-9"
REF. 1-1965-S1
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN DG JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL NEC DISCHARGE TO HEADER SYSTEM HANGER LOCATION
ASME CLASS 2
C-2809 S 82-1 0


W
N
S
E
CONT. ON DWG. C-2409 SHEET 83-1
EL. 83'-8 3/4"
SEE DETAIL-2
SEE DETAIL-1
CONT. ON DWG. C-2409 SHEET 88-1
SEE DETAIL-3
SEE DETAIL-4
ELEV. 12'-0"
ELEV. 31'-0"
RHR HX 2A
ELEV. 13'-0"
FD47A
CONT. ON DWG. C-2409 SHEET 80-1
PLAN
DETAIL-1
PLAN
DETAIL-2
EL. 34-3 3/4"
ELEV. LKG. WEST
DETAIL-3
PLAN
DETAIL-4
1
DWG Correction
NO
DATE
BY
REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL LOOP "A" PIPING
TO RHR EXCHANGER 2A HANGER
LOCATION
ASME CLASS 2
D.E. JOHNSON
C-2409
IT 81-1
0


W
N
S
E
CONT. ON DWG. C-3809 SHEET B3-1
CONT. ON DWG. C-3809 SHEET 78-1
SEE DETAIL-1
20"x20"x16" RED. TEE
P003A
P004A
17-20-1400
56-16-800
CONT. ON DWG. C-3809 SHEET 80-1
PLAN
DETAIL-1
CAROLINA POWER & LIGHT CO.
C-3809
T-80-1
0


W
N
S
E
DETAIL - 1
CAROLINA POWER & LIGHT CO.
C-2409



ELEV. LNG. SOUTH

DETAIL -1

NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO

BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2

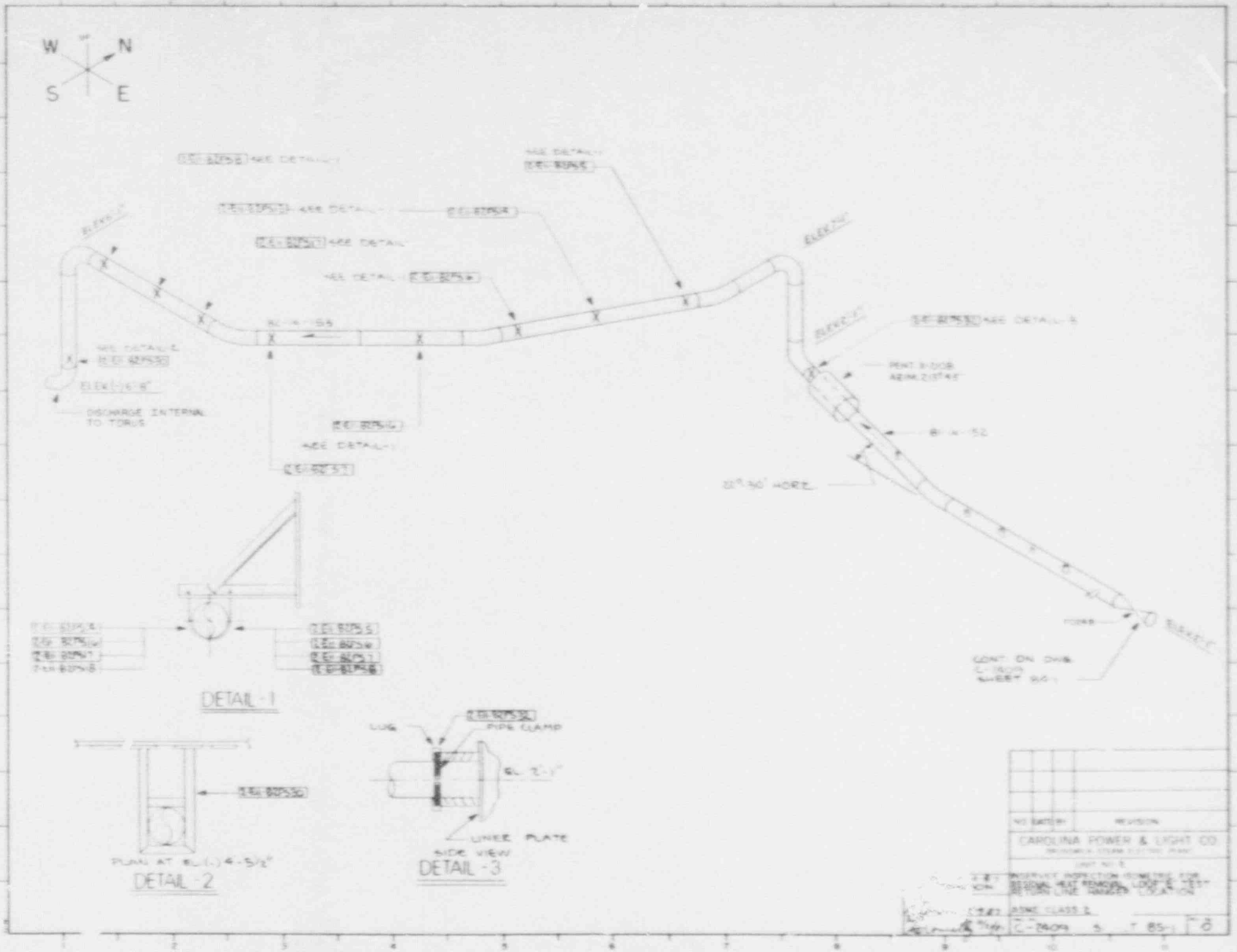
DRAWN D. E. JOHNSON

INSERVICE INSPECTION ISOMETRIC FOR SECOND 10-YR. REMOVAL LOOP B TORUS SPRAY & RET. NOZZLE LINE HEADER

SYSTEM NAME LOCATION

ASME CLASS 2

C-2409 SHT 8A-1 0



NO. DATE BY REVISION

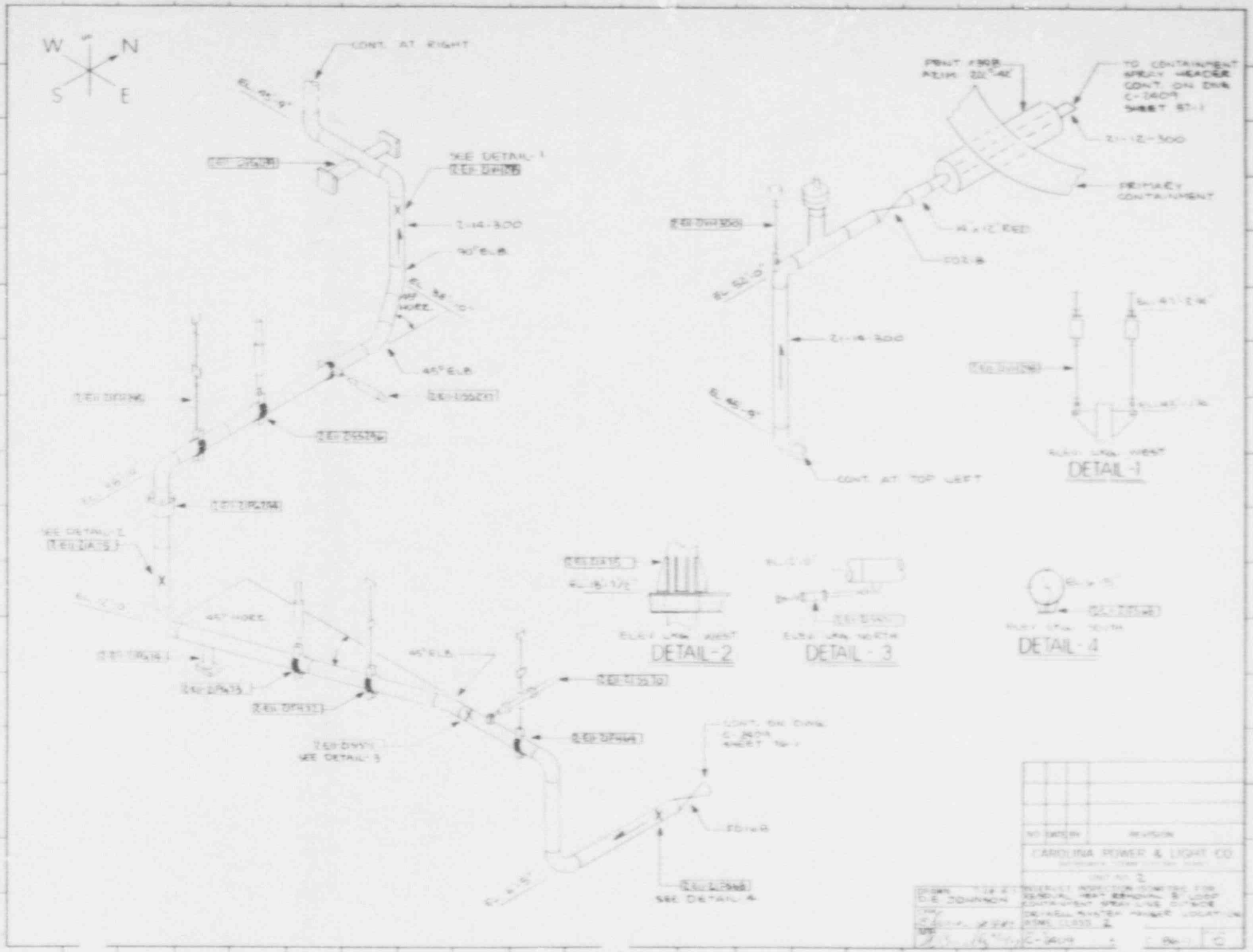
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

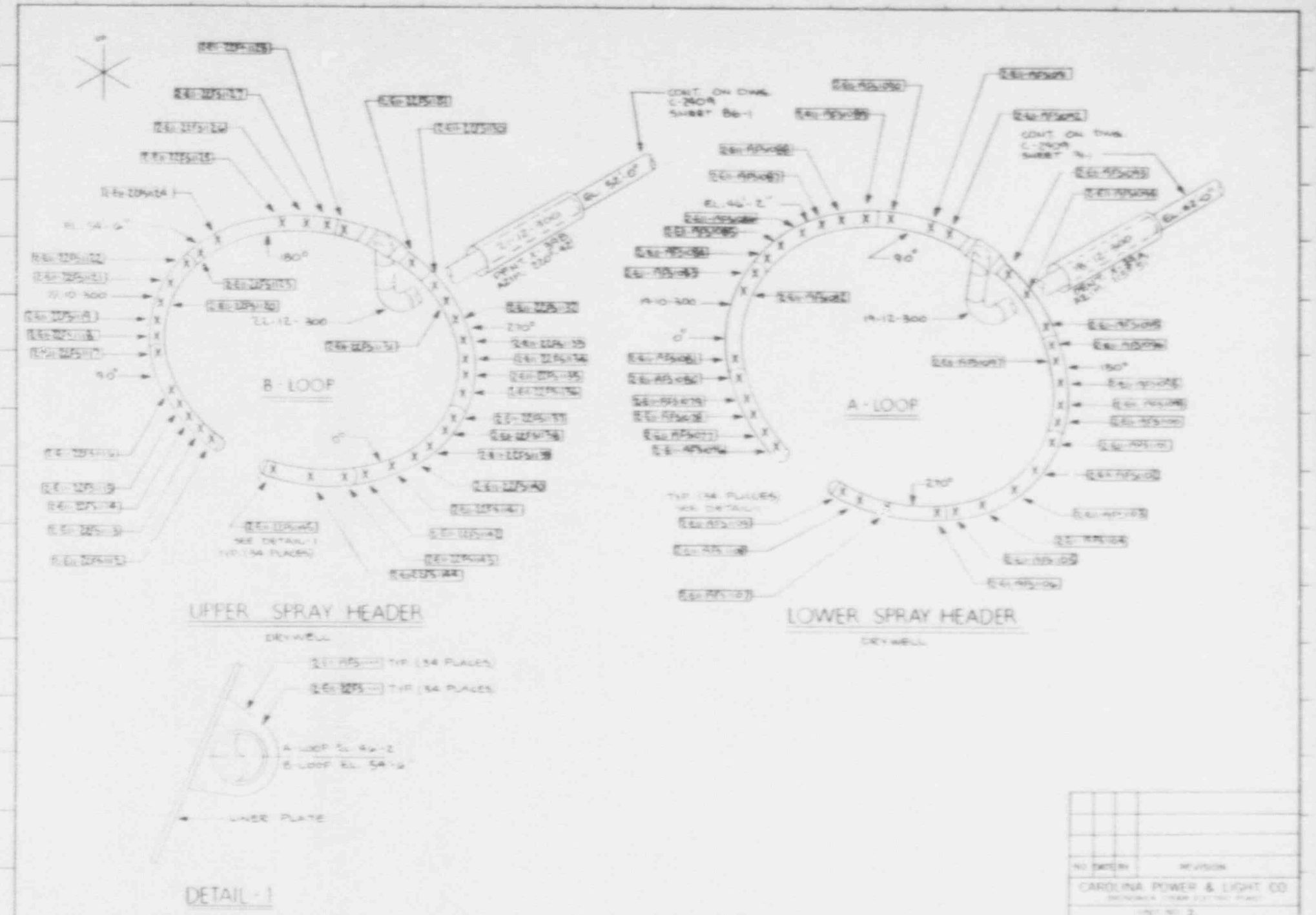
UNIT NO. 2

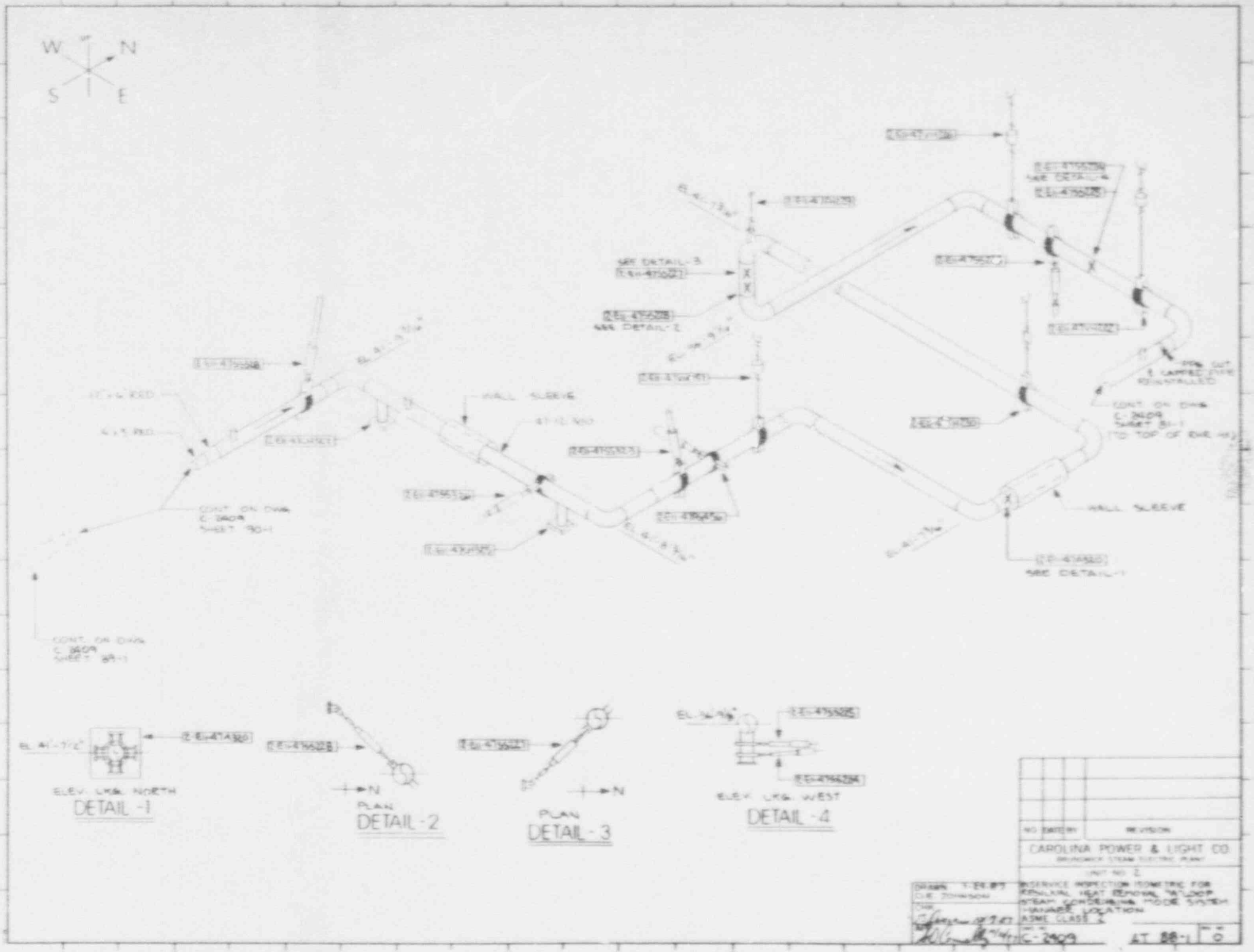
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP "B" TEST RETURN LINE HANGER LOCATION

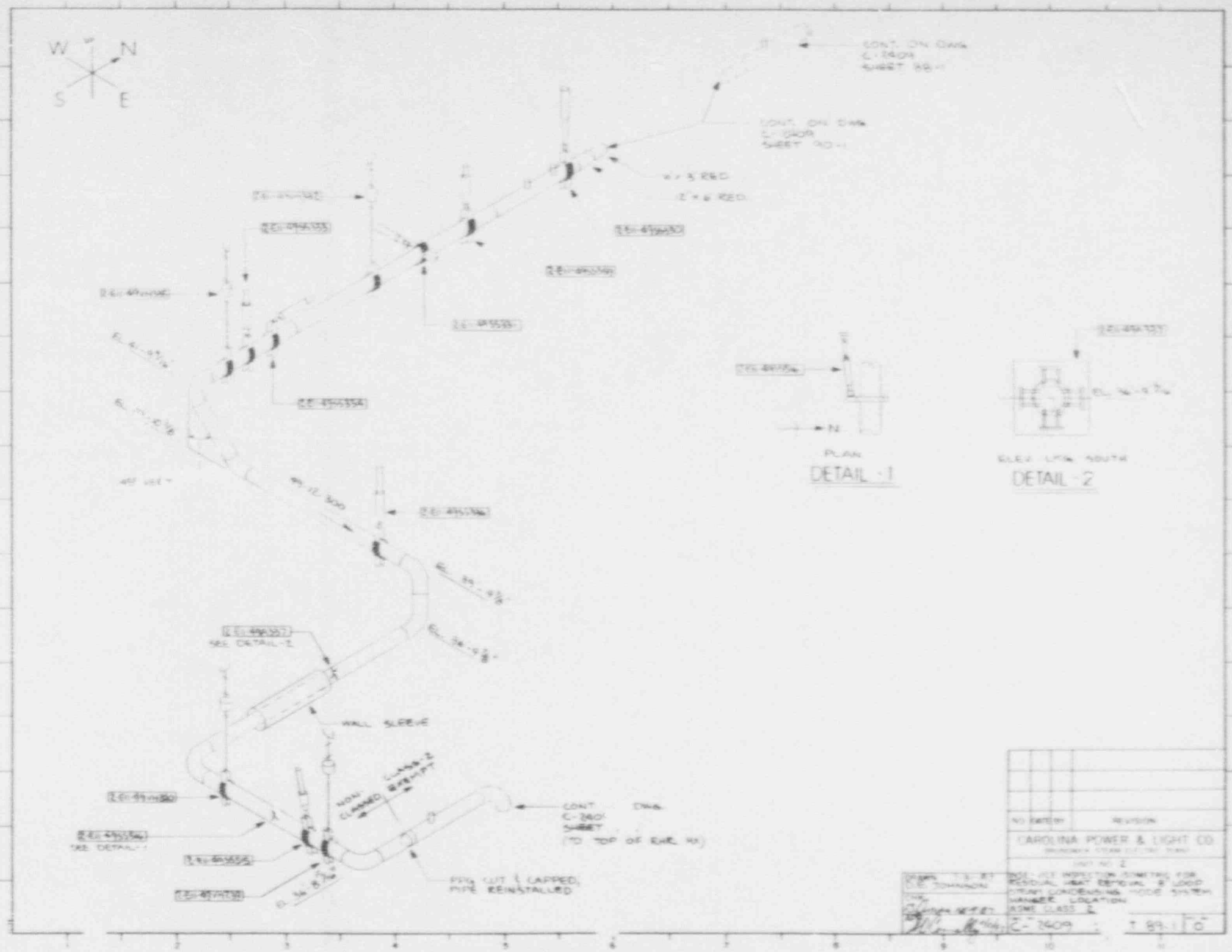
ASME CLASS 2

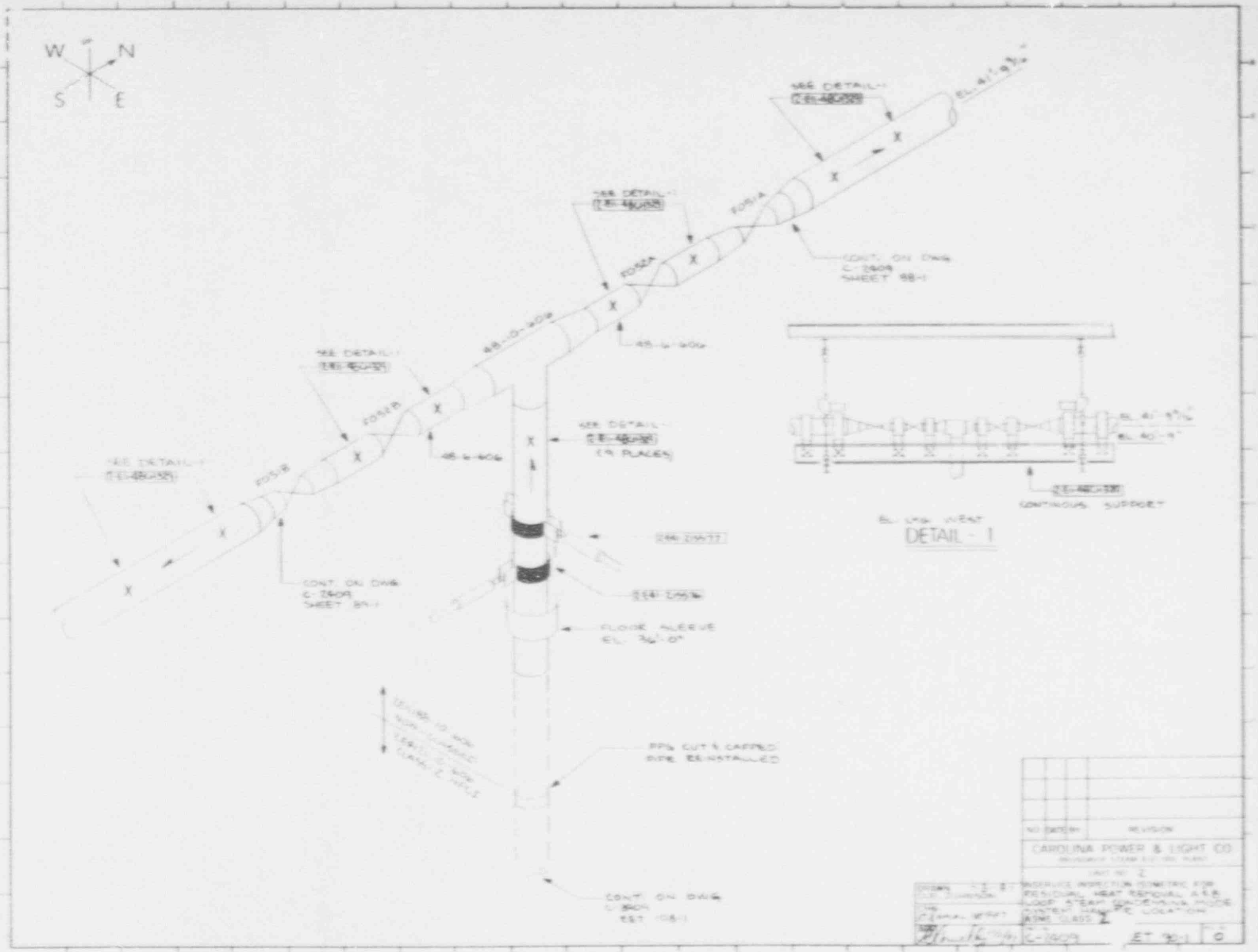
C-2409 S T 85-1 0

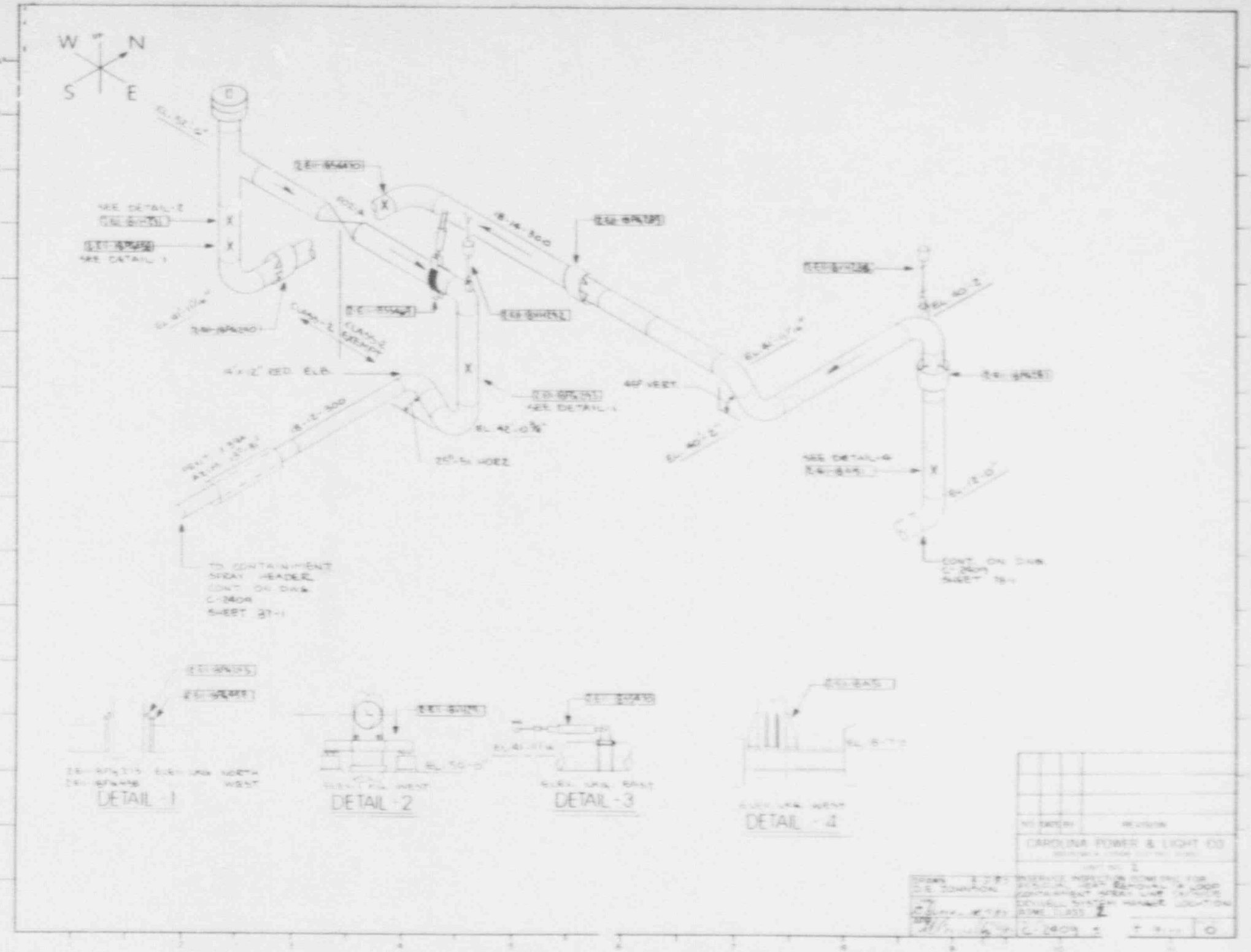

W
N
S
E
CONT. AT RIGHT
SEE DETAIL-1
2-14-300
90° ELB.
45° ELB.
SEE DETAIL-2
45° ELB.
SEE DETAIL-3
SEE DETAIL-4
CONT. ON DWG. C-2409 SHEET 57-1
2-12-300
PRIMARY CONTAINMENT
4 x 12 RED
CONT. AT TOP LEFT
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
CAROLINA POWER & LIGHT CO.
C.E. JOHNSON
C-2409

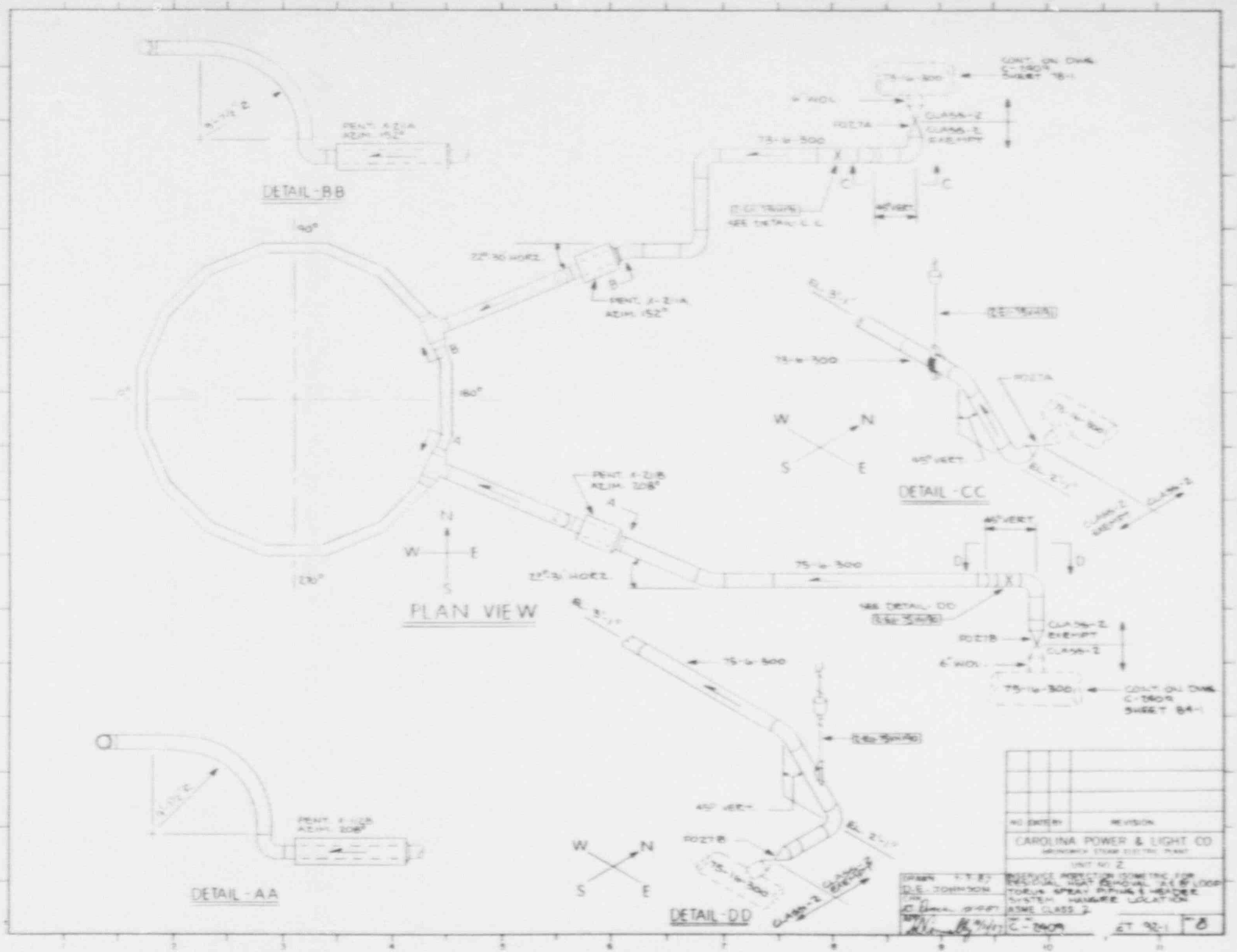

B-LOOP
A-LOOP
UPPER SPRAY HEADER
DRYWELL
LOWER SPRAY HEADER
DRYWELL
DETAIL-1
CONT. ON DWG. C-2409 SHEET B6-1
CONT. ON DWG. C-2409 SHEET A1
EL. 54'-6"
EL. 44'-2"
EL. 42'-0"
180°
90°
270°
0°
22-12-300
19-10-300
19-12-300
SEE DETAIL-1 TYP. (34 PLACES)
TYP. (34 PLACES)
A-LOOP EL. 44-2
B-LOOP EL. 54-6
LINER PLATE
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL CONTAINMENT SPRAY HEADERS
HANGER LOCATION
ZONE CLASS 2
C-2409
B6-1
0

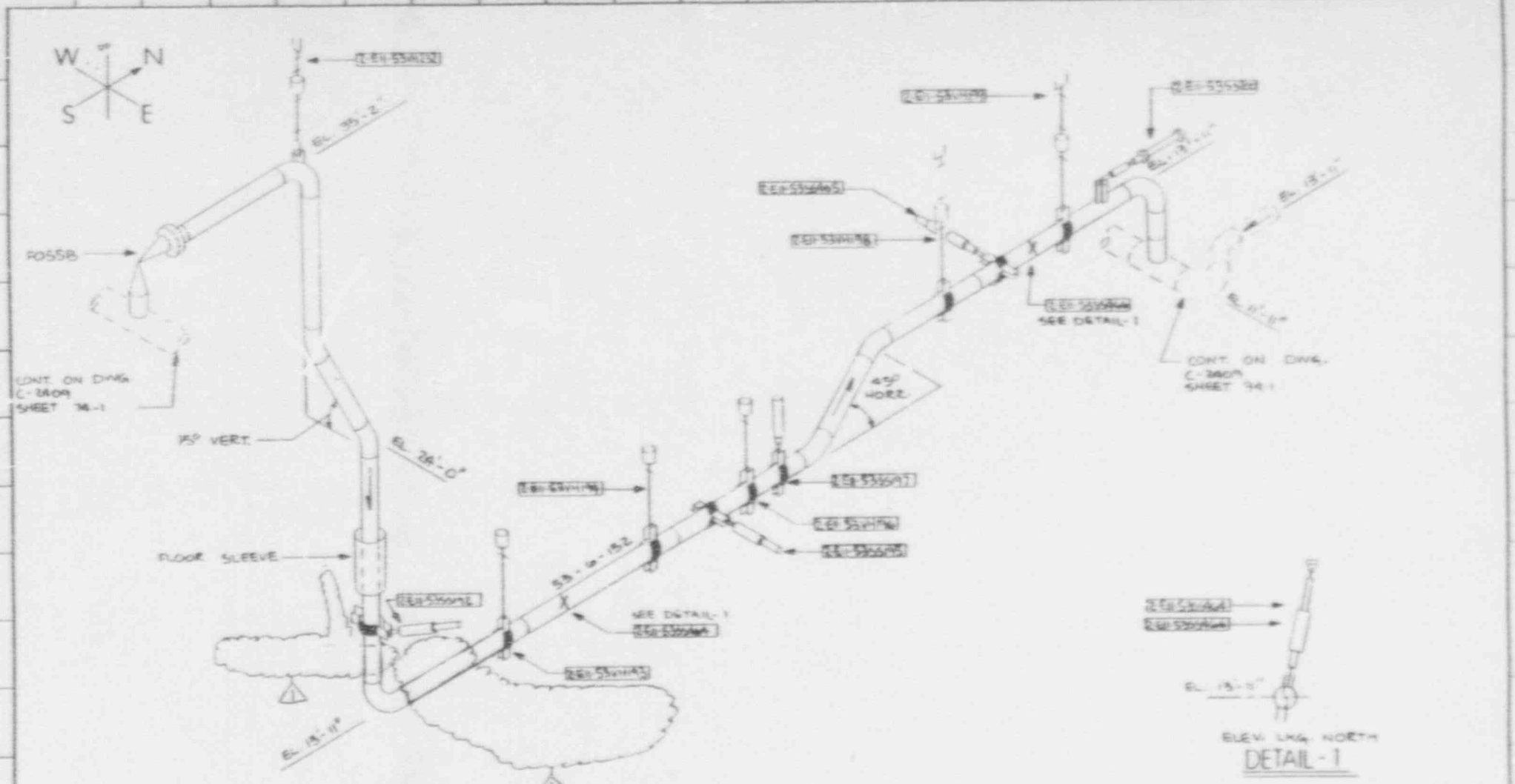

W
N
S
E
WALL SLEEVE
SEE DETAIL-3
SEE DETAIL-2
SEE DETAIL-4
SEE DETAIL-1
CONT. ON DWG. C-2609 SHEET 90-1
CONT. ON DWG. C-2609 SHEET 89-1
ELEV. LKG. NORTH
DETAIL -1
PLAN
DETAIL -2
PLAN
DETAIL -3
ELEV. LKG. WEST
DETAIL -4
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL "B" LOOP
STEAM CONDENSING MODE SYSTEM
HANGER LOCATION
ASME CLASS 2
C-2609
AT 88-1
0


W
N
S
E
CONT. ON DWG. C-2409 SHEET 10-1
CONT. ON DWG. C-2409 SHEET 10-1
w/ 3 RED
2 x 6 RED
WALL SLEEVE
SEE DETAIL-2
SEE DETAIL-1
CONT. DWG. C-2601 SHEET (TO TOP OF RHR HX)
PIPE CUT & CAPPED, PIPE REINSTALLED
PLAN
DETAIL-1
ELEV. LOOK SOUTH
DETAIL-2
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
ASME CLASS 2
C-2409
T 89-1 0


W
N
S
E
SEE DETAIL-1
EL. 41'-9 1/2"
FORM A
FORM B
FORM C
FORM D
CONT. ON DWG. C-2409 SHEET 98-1
48'-0"-406
48'-6"-406
(19 PLACES)
CONT. ON DWG. C-2409 SHEET 99-1
FLOOR SLEEVE EL. 36'-0"
PPS CUT & CAPPED PIPE REINSTALLED
CONT. ON DWG. C-2409 SHEET 100-1
EL. 41'-9 1/2"
EL. 40'-9"
CONTINUOUS SUPPORT
EL. LOOKING WEST
DETAIL - 1
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL A & B LOOP STEAM GENERATOR MODE
CONTAINMENT PENETRATION LOCATION
WITHIN CLASS 2
C-2409
ET 30-1
0


W
N
S
E
SEE DETAIL-2
SEE DETAIL-1
4"x12" RED. ELB.
8-12-300
8-14-300
EL 42'-0 3/8"
25°-54 HORZ.
40° VERT.
EL 40'-2"
EL 12'-0"
TO CONTAINMENT SPRAY HEADER
CONT. ON DWG. C-2409 SHEET 27-1
CONT. ON DWG. C-2409 SHEET 78-1
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
CAROLINA POWER & LIGHT CO
C-2409


DETAIL-BB
PLAN VIEW
DETAIL-CC
DETAIL-DD
DETAIL-AA
90°
180°
270°
22°-30' HORZ.
45° VERT.
75-6-300
CONT. ON DWG. C-2809 SHEET 18-1
CONT. ON DWG. C-2809 SHEET 8A-1
CLASS-2 EXEMPT
CLASS-2
6" NOL
R027A
R027B
SEE DETAIL-C.C.
SEE DETAIL-D.D.
PENT. A-2-1A AZIM. 152°
PENT. A-2-1B AZIM. 208°
PENT. A-1-2A AZIM. 152°
PENT. A-1-2B AZIM. 208°
N
S
E
W
A
B
C
D
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN
D.E. JOHNSTON
ASME CLASS 2
C-2809
ZT 92-1
8



NO	DATE	BY	REVISION
1			PM 89-106

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

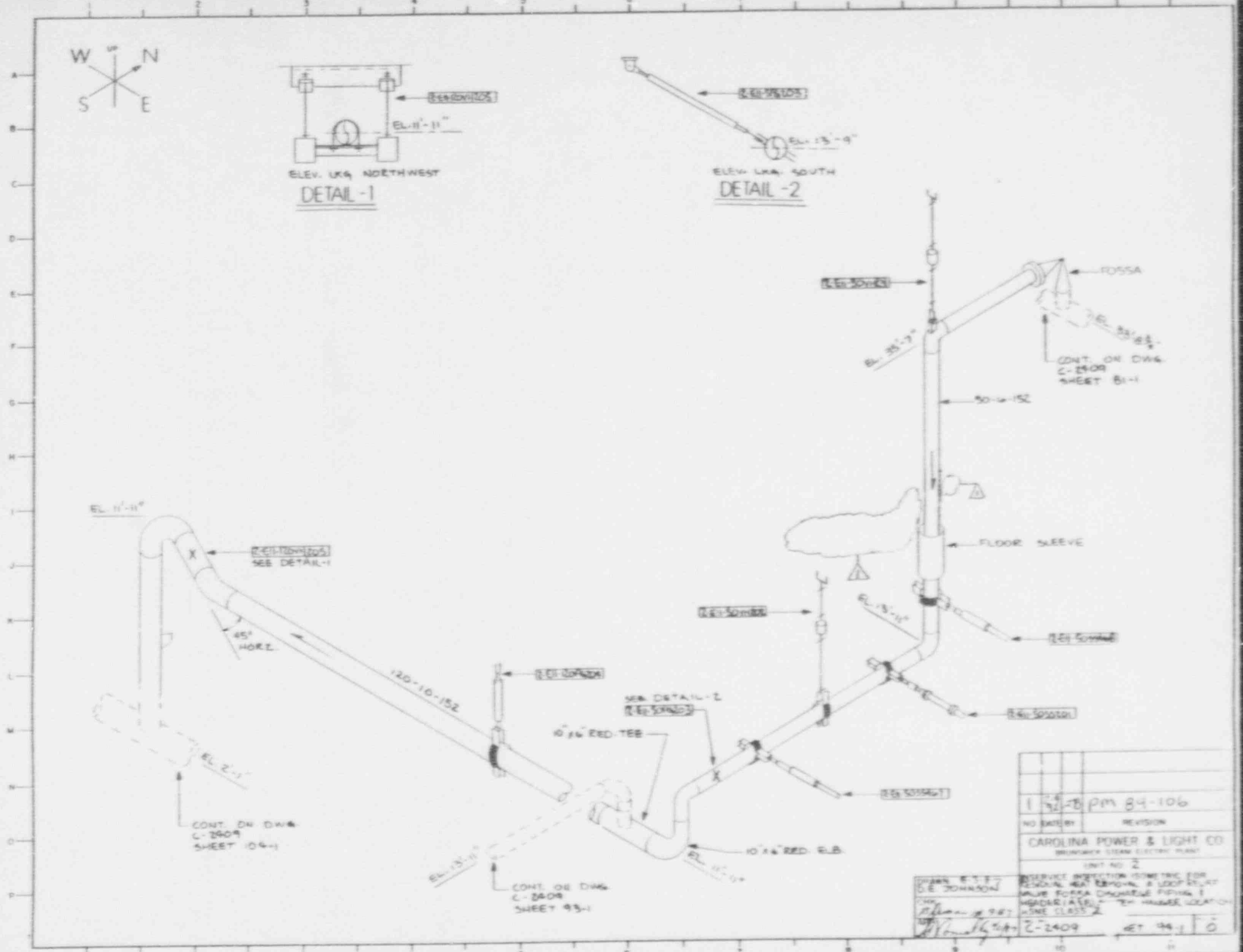
UNIT NO. 2

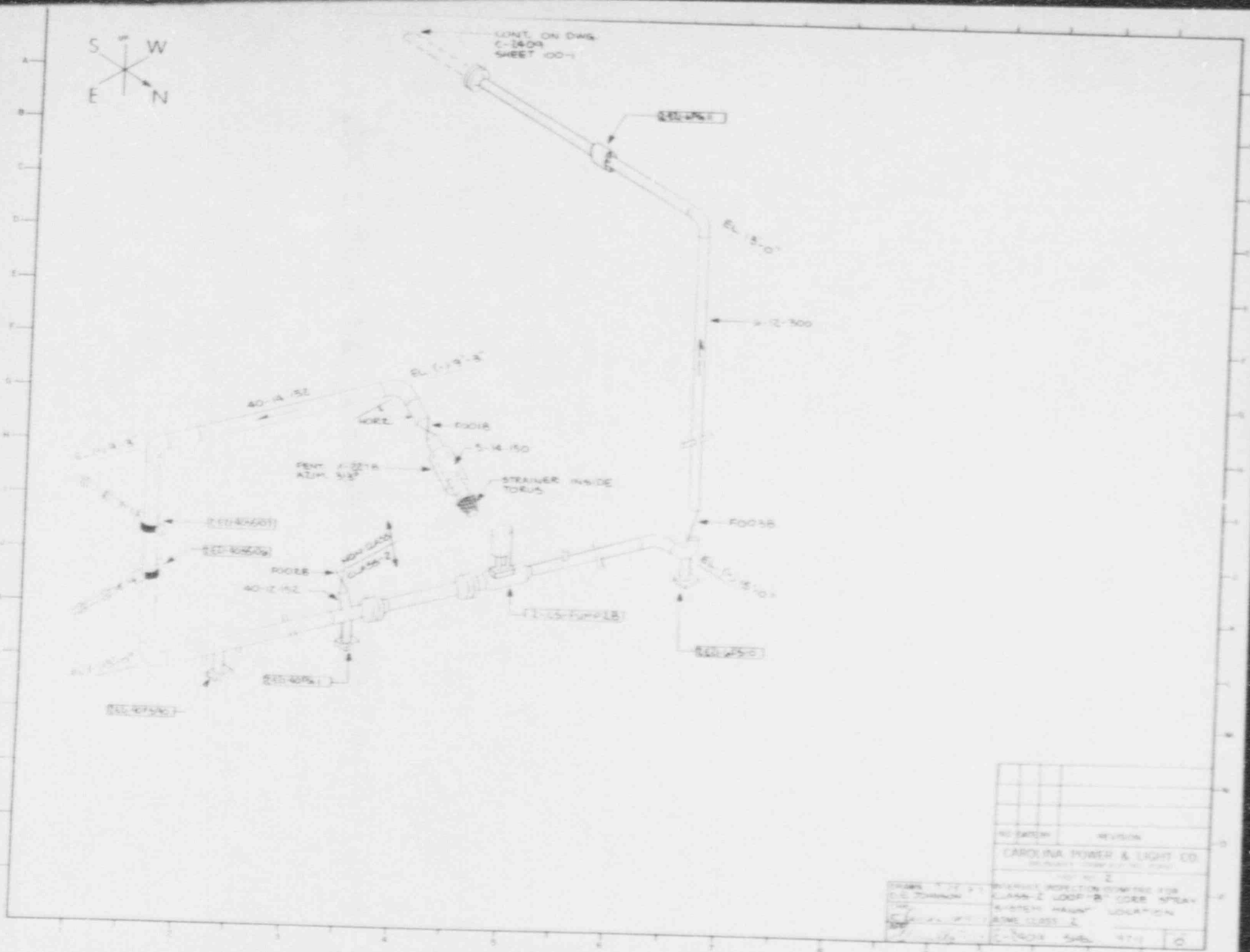
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP RELIEF VALVE ROOM TO SHARED DRAIN SYSTEM HANGER LOCATION

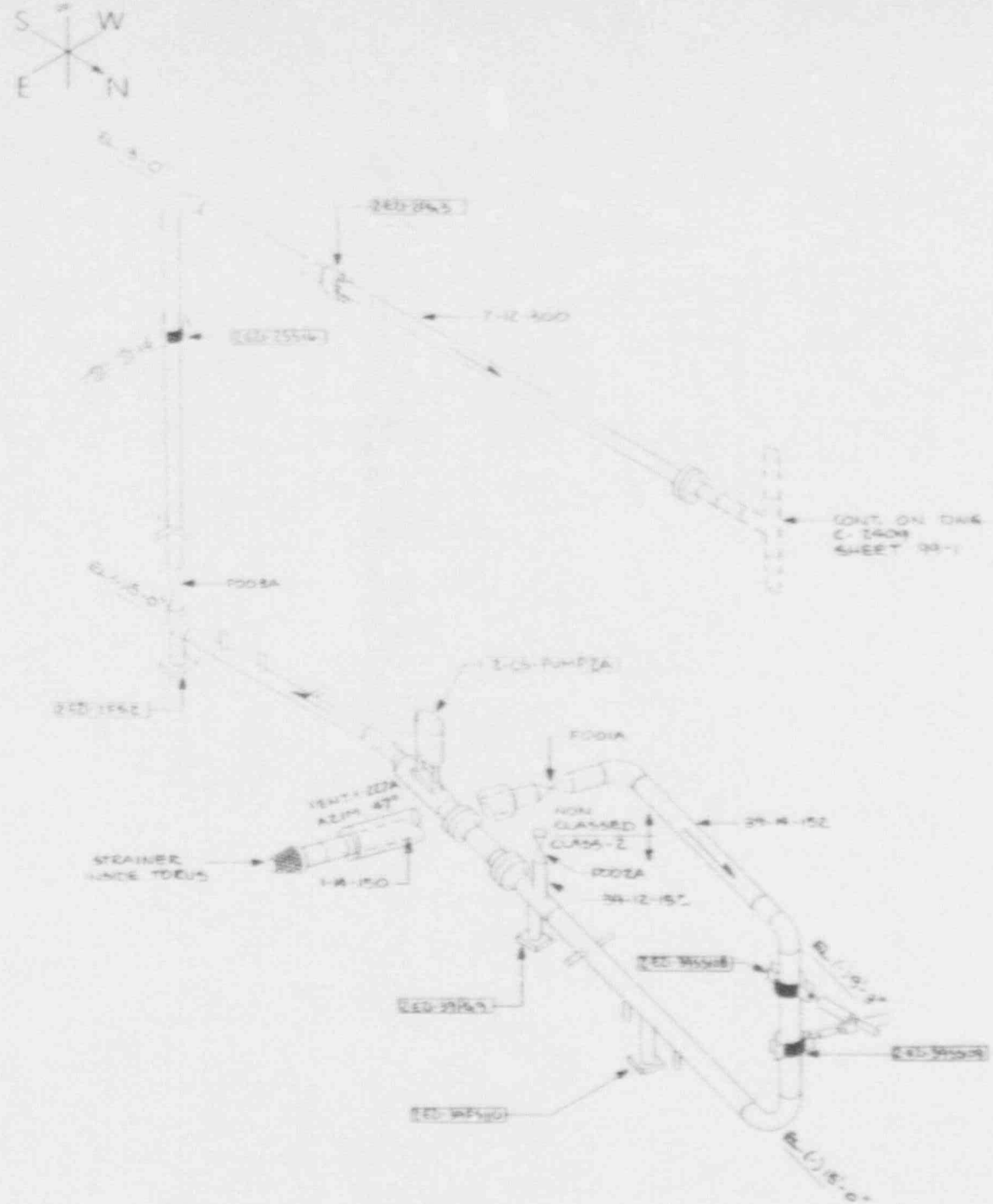
ASME CLASS 2

DRAWN 8-7-87 D.R. JOHNSON

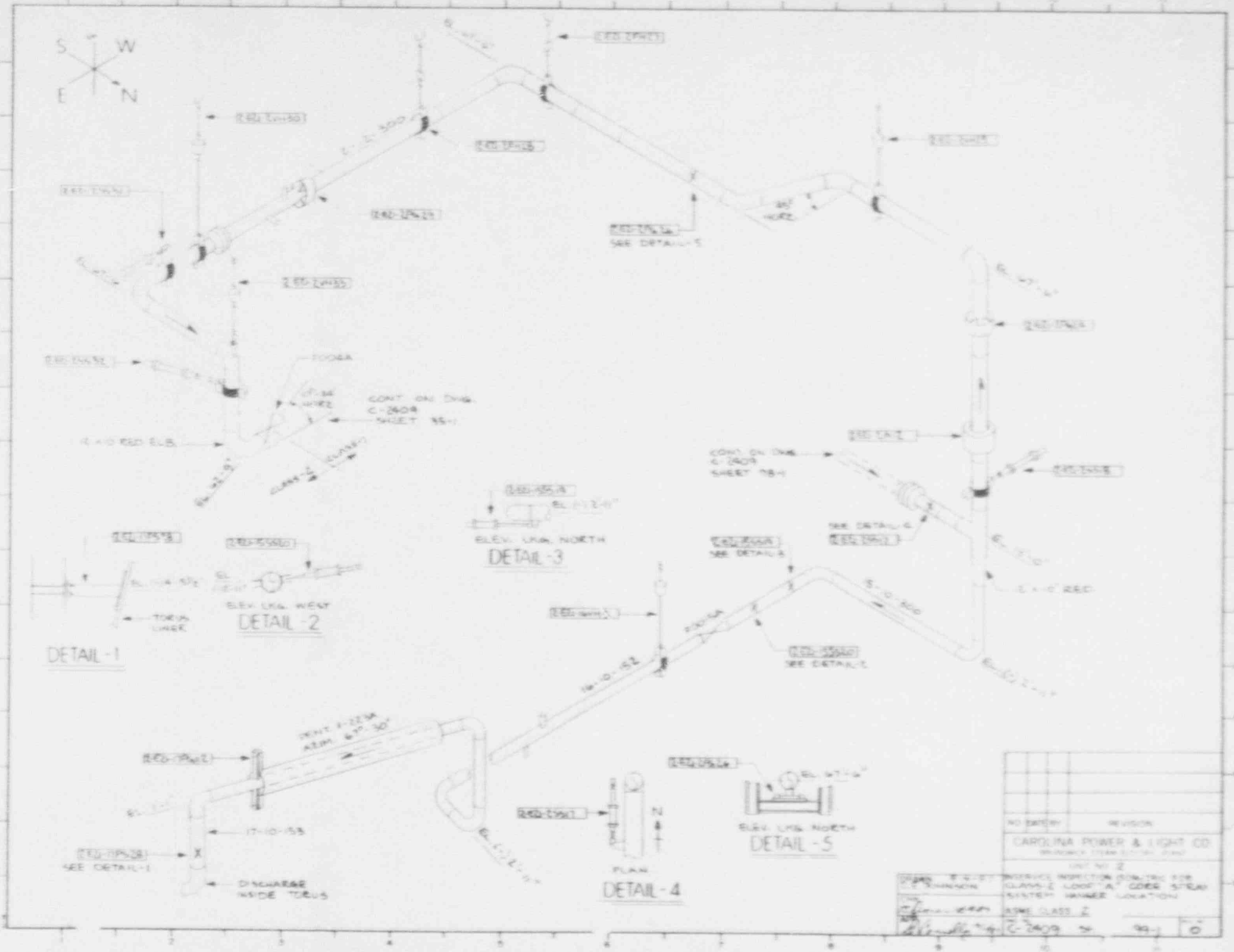
C-2809 RT 93-1 0

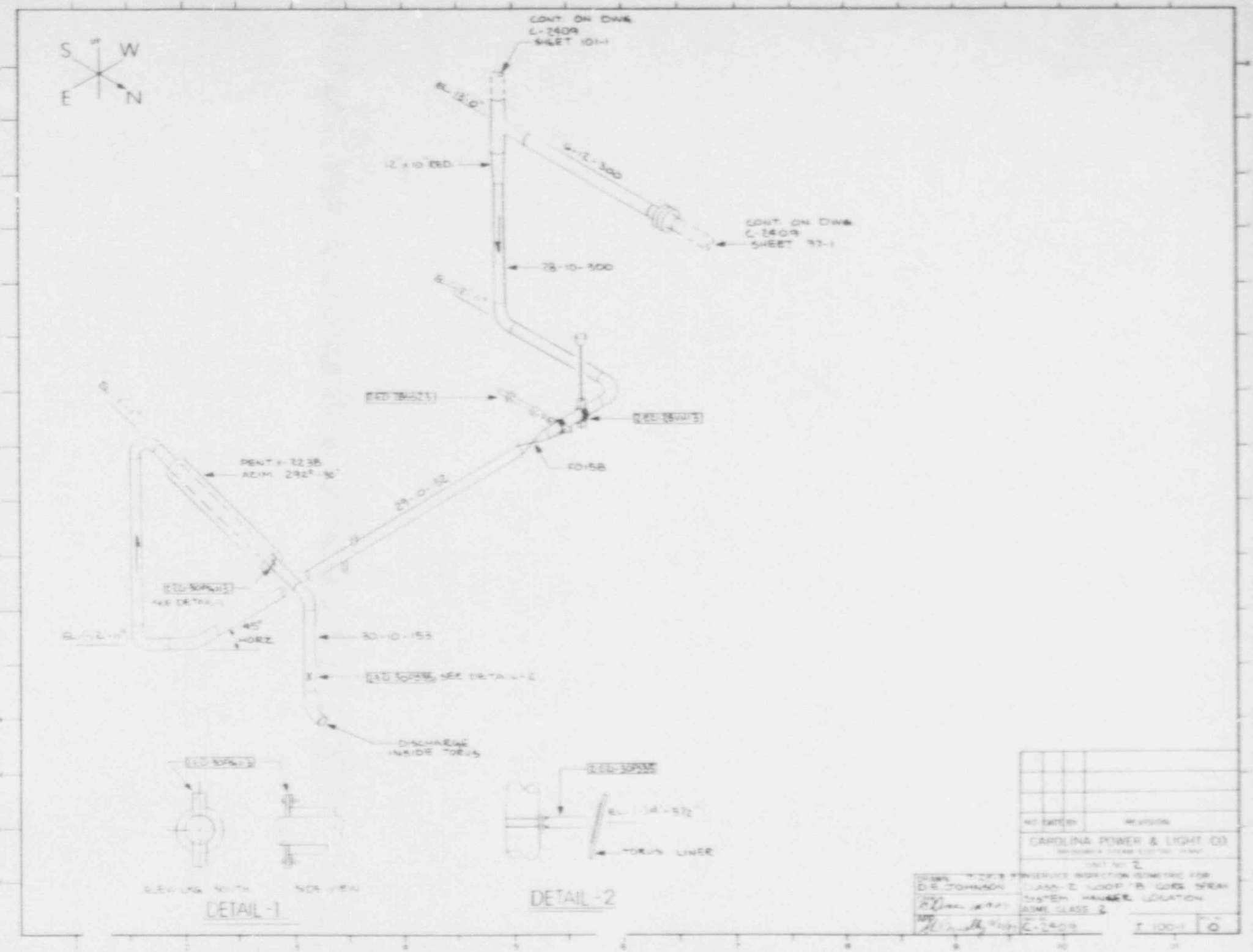

W
N
S
E
UP
EL. 11'-11"
ELEV. LKG NORTHWEST
DETAIL -1
EL. 13'-9"
ELEV. LKG. SOUTH
DETAIL -2
FOSSA
EL. 35'-7"
CONT. ON DWG. C-2409 SHEET B1-1
30-6-152
FLOOR SLEEVE
EL. 13'-11"
EL. 11'-11"
SEE DETAIL-1
45° HORZ.
120-10-152
SEE DETAIL-2
10"x6" RED. TEE
10"x6" RED. ELB.
EL. 2'-1"
CONT. ON DWG. C-2409 SHEET 104-1
EL. 13'-11"
CONT. ON DWG. C-2409 SHEET 93-1
1
PM 84-106
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN
C.E. JOHNSON
C-2409
SHEET 104-1
0

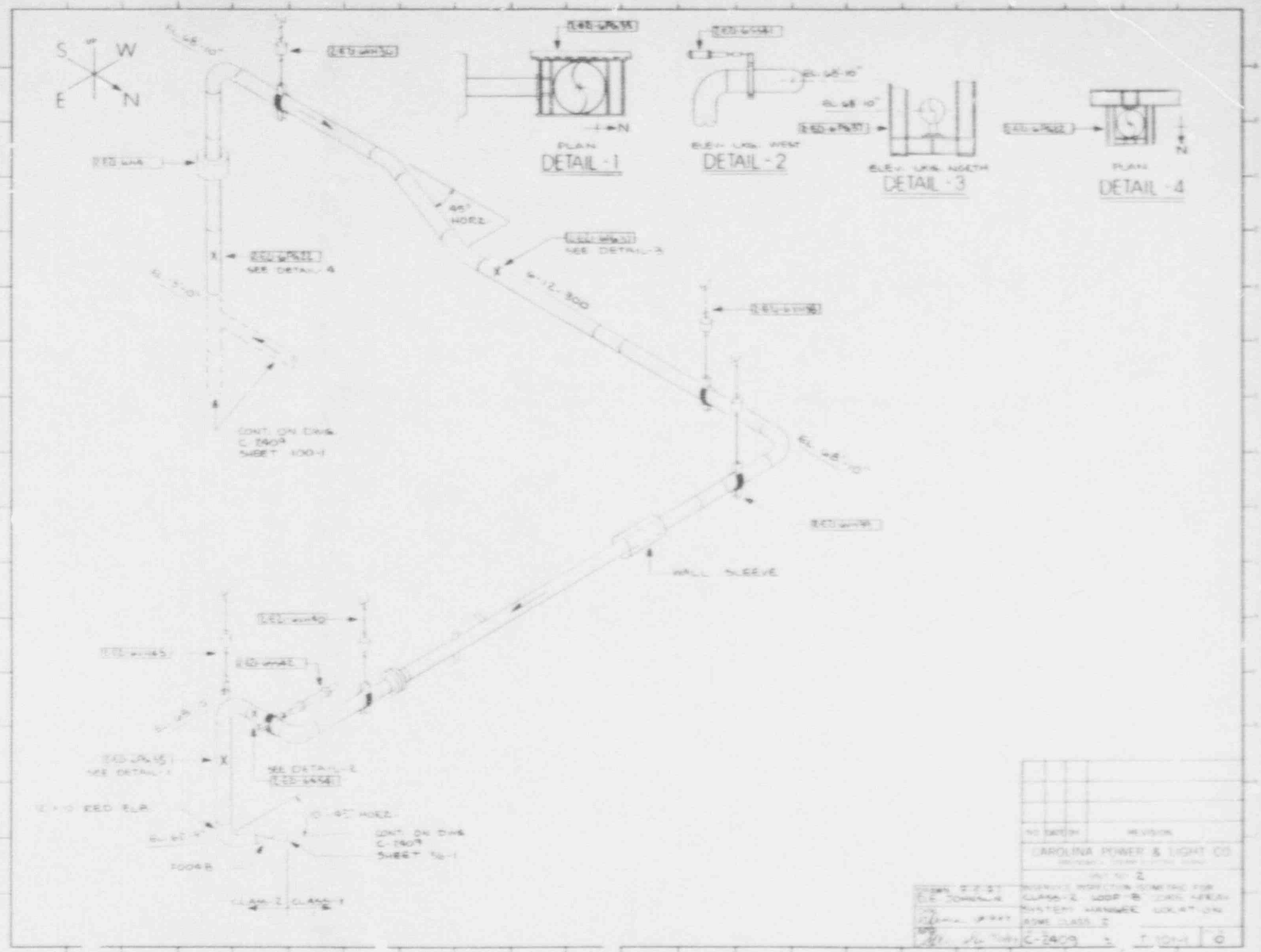

S
W
E
N
CONT. ON DWG.
C-2409
SHEET 001
EL 8'-0"
12-300
EL 1'-9"-3"
40-14-152
NOZZ.
F001A
5-14-150
PENT. 1-2271A
AZIM. 5'-3"
STRAINER INSIDE
TORUS
F001B
F001E
40-12-152
EL 1'-8"-0"
CARBON STEEL
CLASS 2
CAROLINA POWER & LIGHT CO.
CLASS 2 LOOP "B" CORE SPRAY
SYSTEM HANGER LOCATION
ZONE CLASS 2
C. E. THOMSON

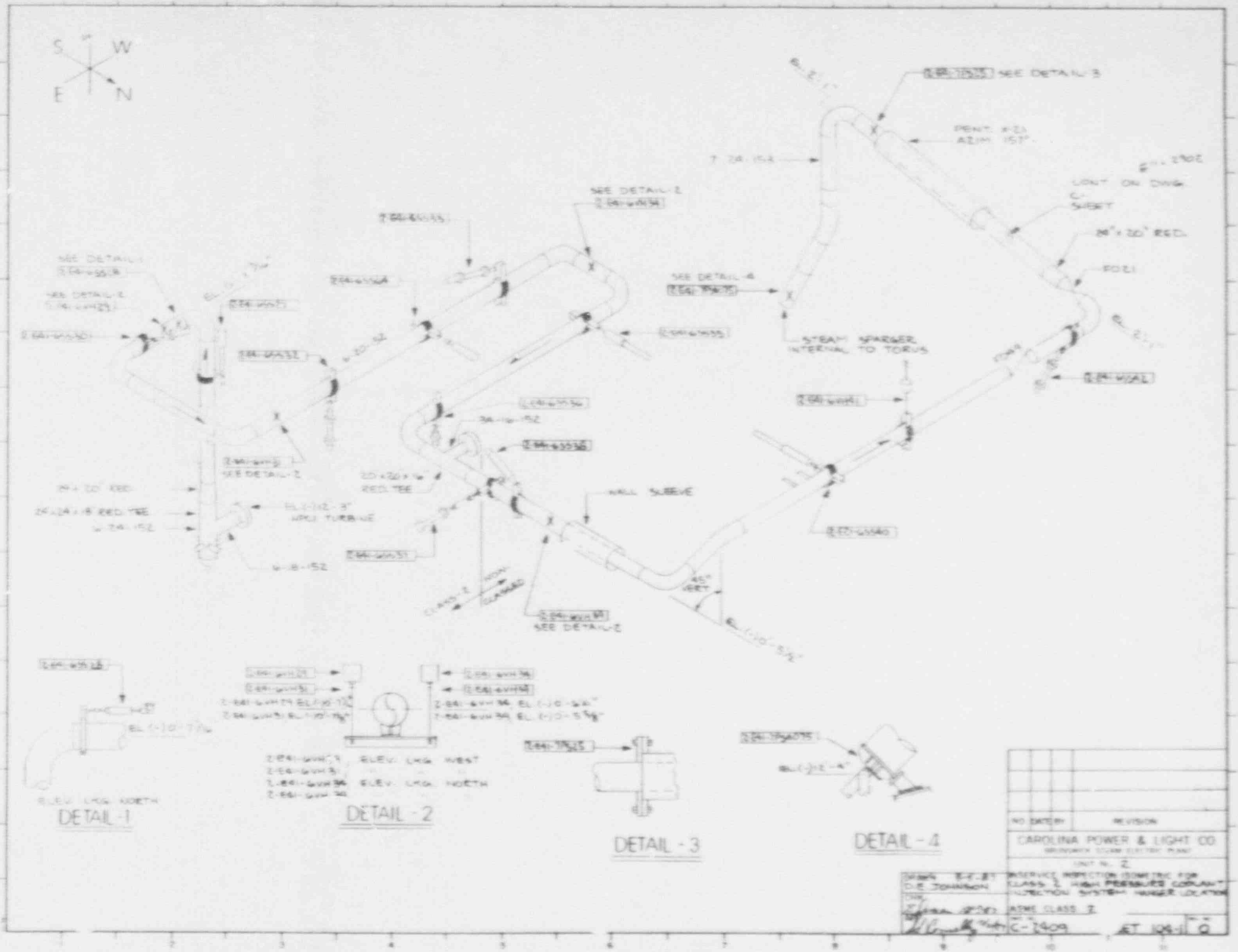


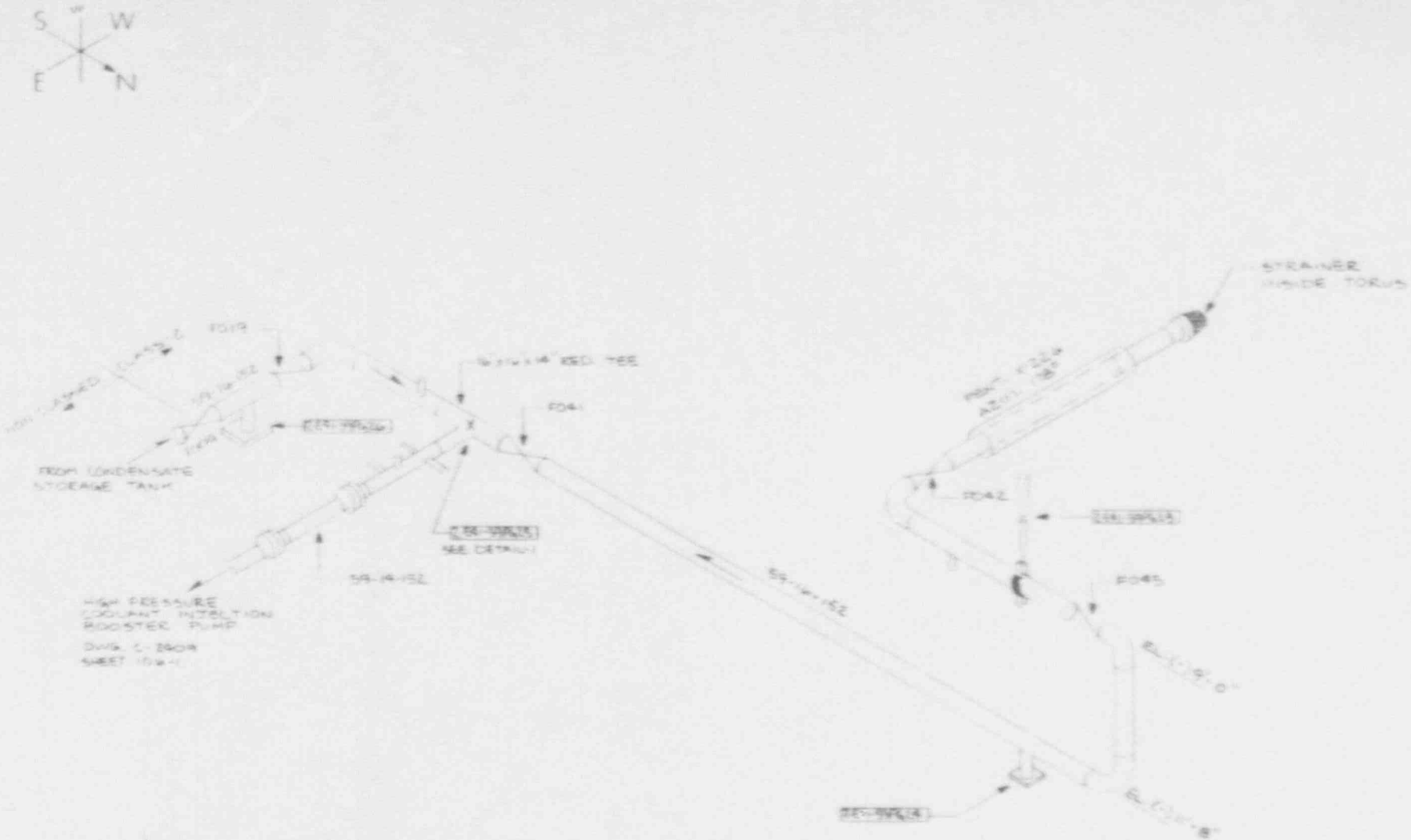
NO. DATE BY	REVISION
CAROLINA POWER & LIGHT CO	
UNIT NO. 2	
C.E. JOHNSON	INSERVICE INSPECTION ISOMETRIC FOR CLASS-2 LOOP "A" CORE SPRAY SYSTEM HANGER LOCATION
	ASME CLASS 2
	C-2409 SH 98-1 REV 0

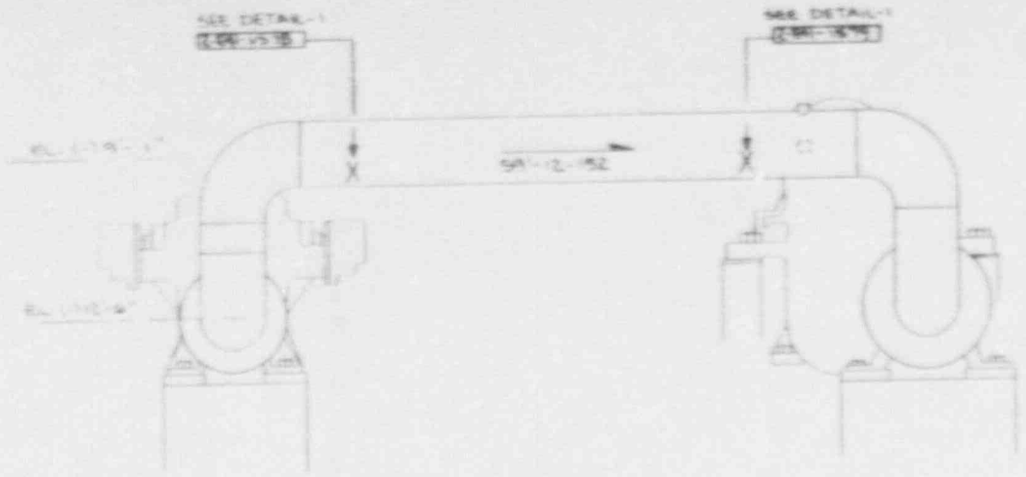

S
W
E
N
SEE DETAIL-5
CONT ON DWG. C-2409 SHEET 18-1
4"-10" RED ELB.
CONT ON DWG. C-2409 SHEET 18-1
SEE DETAIL-4
SEE DETAIL-2
SEE DETAIL-1
ELEV. LKG. NORTH
DETAIL-3
ELEV. LKG. WEST
DETAIL-2
TORUS LINER
DETAIL-1
ELEV. LKG. NORTH
DETAIL-5
PLAN
DETAIL-4
SEE DETAIL-1
DISCHARGE INSIDE TORUS
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
ASME CLASS 2
C-2409


S
W
E
N
CONT ON DWG
C-2409
SHEET 101-1
EL 12'-0"
12 x 10" RED
6-12-300
CONT ON DWG
C-2409
SHEET 93-1
28-10-300
PENT X-2238
AZIM 292°-30'
28-0-12
30-10-153
DISCHARGE
INSIDE TORUS
EL 14'-5/2"
TORUS LINER
DETAIL-1
DETAIL-2
CAROLINA POWER & LIGHT CO
UNIT NO. 2
CLASS 2 HOOP & CORE SPRAY
SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
T-100-1
0

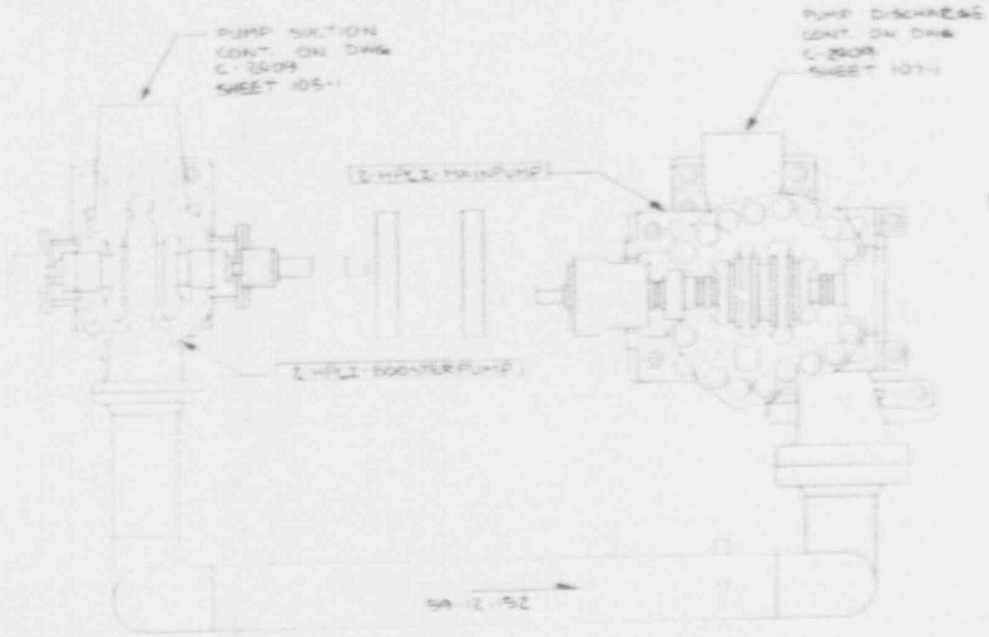

S
W
E
N
PLAN
DETAIL - 1
ELEV. LOOK WEST
DETAIL - 2
ELEV. LOOK NORTH
DETAIL - 3
PLAN
DETAIL - 4
45° HORZ.
SEE DETAIL - 3
SEE DETAIL - 4
CONT. ON DWG. C-2409 SHEET 100-1
WALL SLEEVE
SEE DETAIL - 1
SEE DETAIL - 2
CONT. ON DWG. C-2409 SHEET 100-1
CLASS 2
CLASS 1
NO DATE
REVISION
CAROLINA POWER & LIGHT CO
SHEET 2
SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
100-1
0


S
W
E
N
SEE DETAIL-3
PENT. X-21
AZIM 151°
7 24-152
SEE DETAIL-2
CONT ON DWG.
C-
SHEET
24" x 20" RED.
FO21
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-4
STEAM SPARGER
INTERNAL TO TORUS
WALL SLEEVE
20 x 20 x 16"
RED TEE
24 x 20" RED
24 x 24 x 18 RED TEE
W 24-152
EL 1-10-7 1/2"
ELEV. LMG. NORTH
DETAIL-1
ELEV. LMG. WEST
ELEV. LMG. NORTH
DETAIL-2
DETAIL-3
DETAIL-4
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
CLASS 2 HIGH PRESSURE COOLANT
INJECTION SYSTEM HANGER LOCATION
ASME CLASS 2
C-2409
SET 106-1
0


S
W
E
N
STRAINER
INSIDE TORUS
FROM CONDENSATE
STORAGE TANK
SEE DETAIL-1
HIGH PRESSURE
COOLANT INJECTION
BOOSTER PUMP
DWG. C-2609
SHEET 1 OF 1
PLAN
DETAIL - 1
NO. DATE BY
REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
CLASS-2 HIGH PRESSURE
COOLANT SYSTEM HANGER
LOCATION
ZONE 1 TRS 2
C-2609
T-105-1
0



ELEVATION VIEW



PLAN VIEW

ELEV. LKG. VIEW

DETAIL -1

NO.	DATE	REVISION

CAROLINA POWER & LIGHT CO

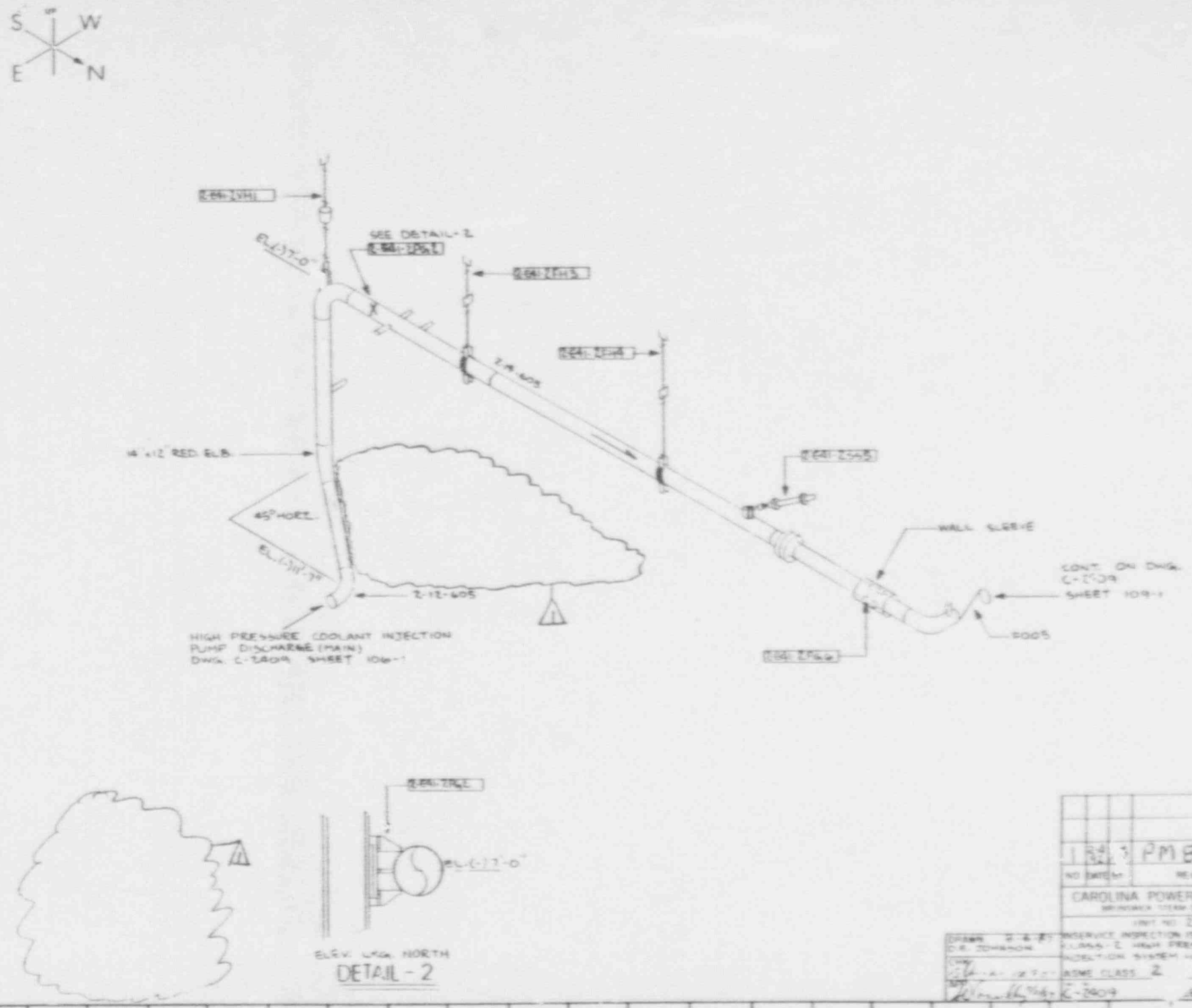
UNIT NO. 2

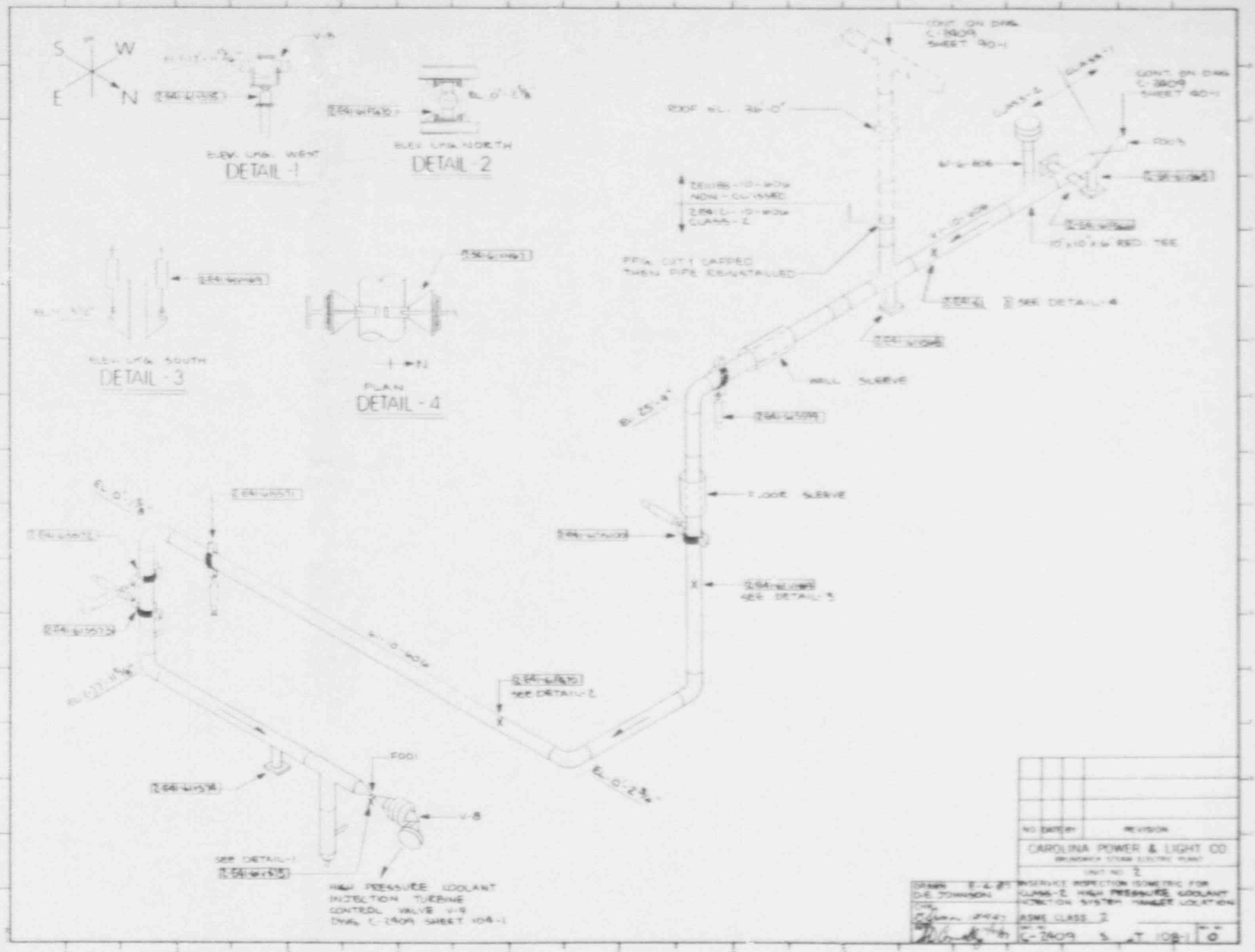
C.E. JOHNSON

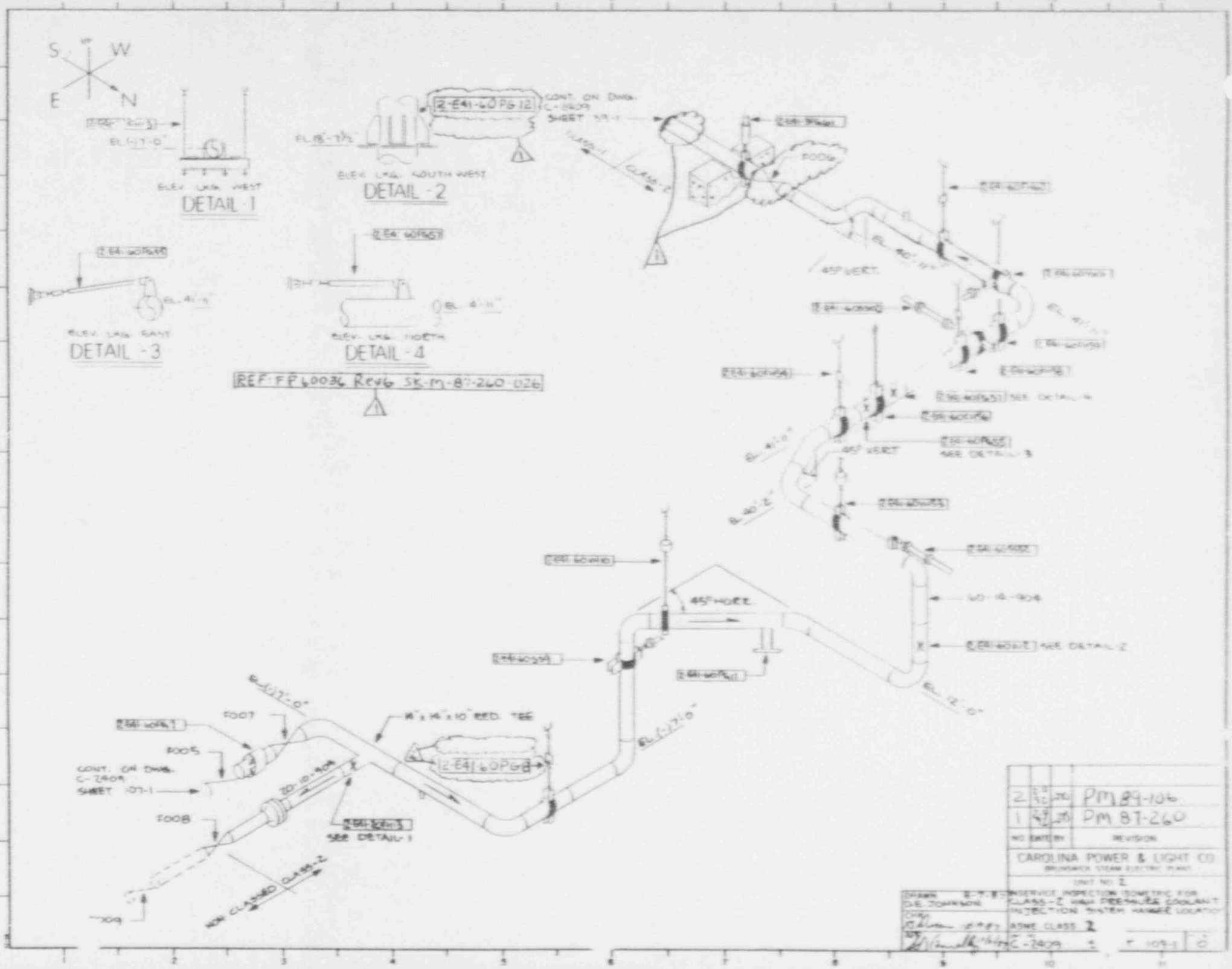
HPCI BOOSTER TO MAIN PUMP

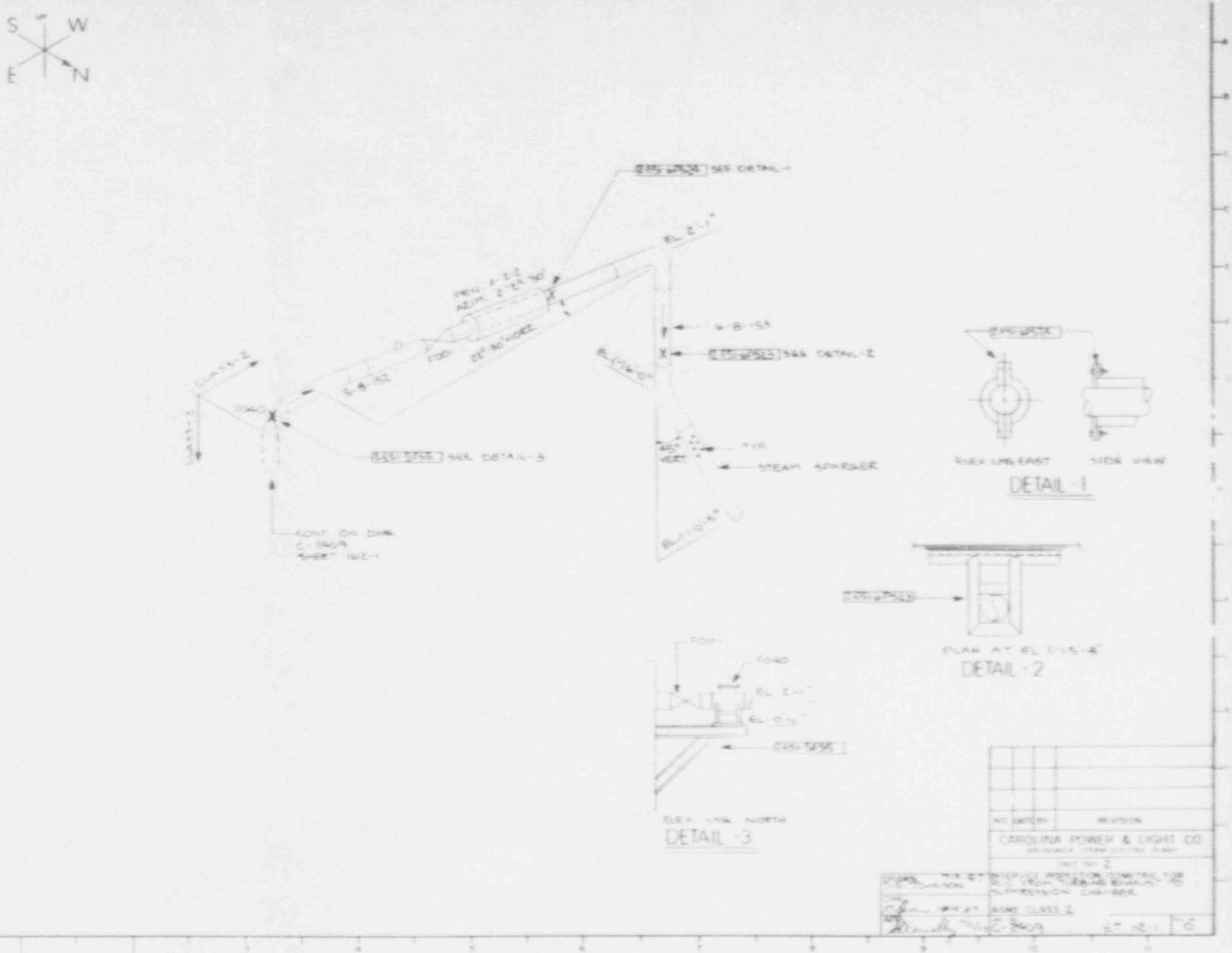
ASME CLASS 2

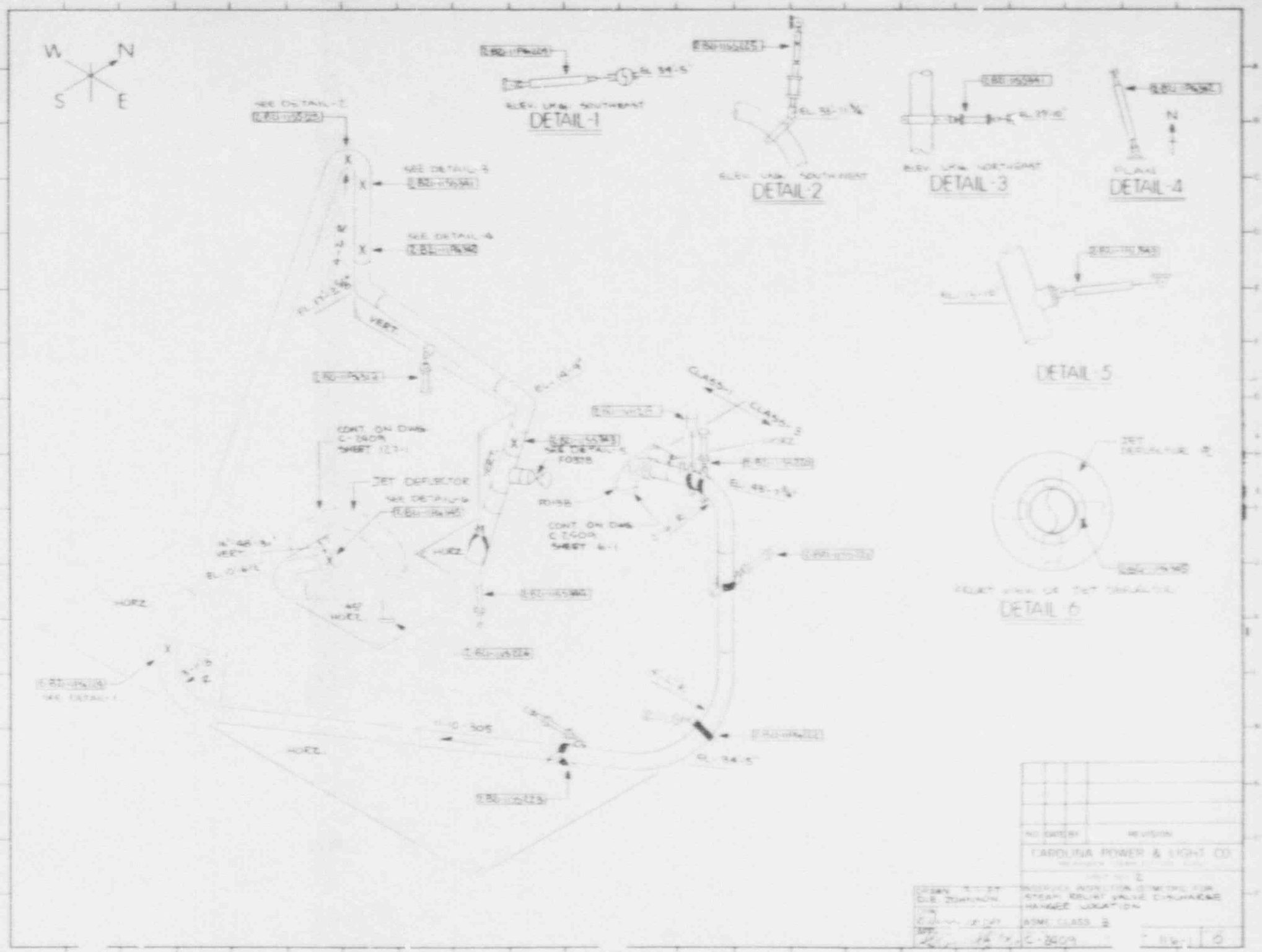
C-2609

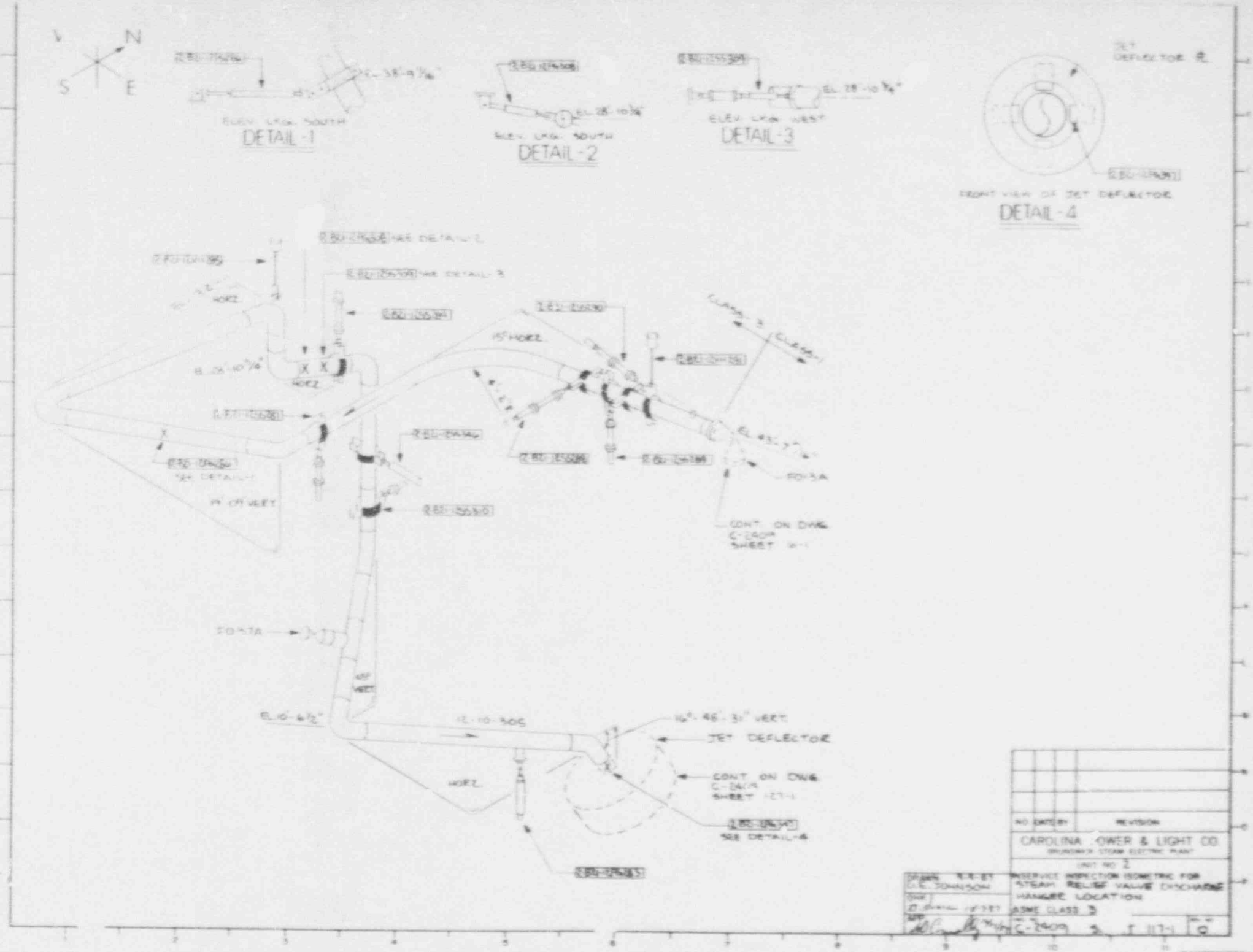

S
W
E
N
SEE DETAIL-2
EL.(-)7'-0"
14"x12" RED. ELB.
45° HORZ.
2-12-605
HIGH PRESSURE COOLANT INJECTION
PUMP DISCHARGE (MAIN)
DWG. C-2809 SHEET 106-1
WALL SLEEVE
CONT. ON DWG.
C-2809
SHEET 109-1
ELEV. LOOK NORTH
DETAIL-2
PM89-106 Rev 0
NO DATE REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
CLASS-2 HIGH PRESSURE COOLANT
INJECTION SYSTEM HANGER LOCATION
ASME CLASS 2
C-2809
SHEET 107-1
C

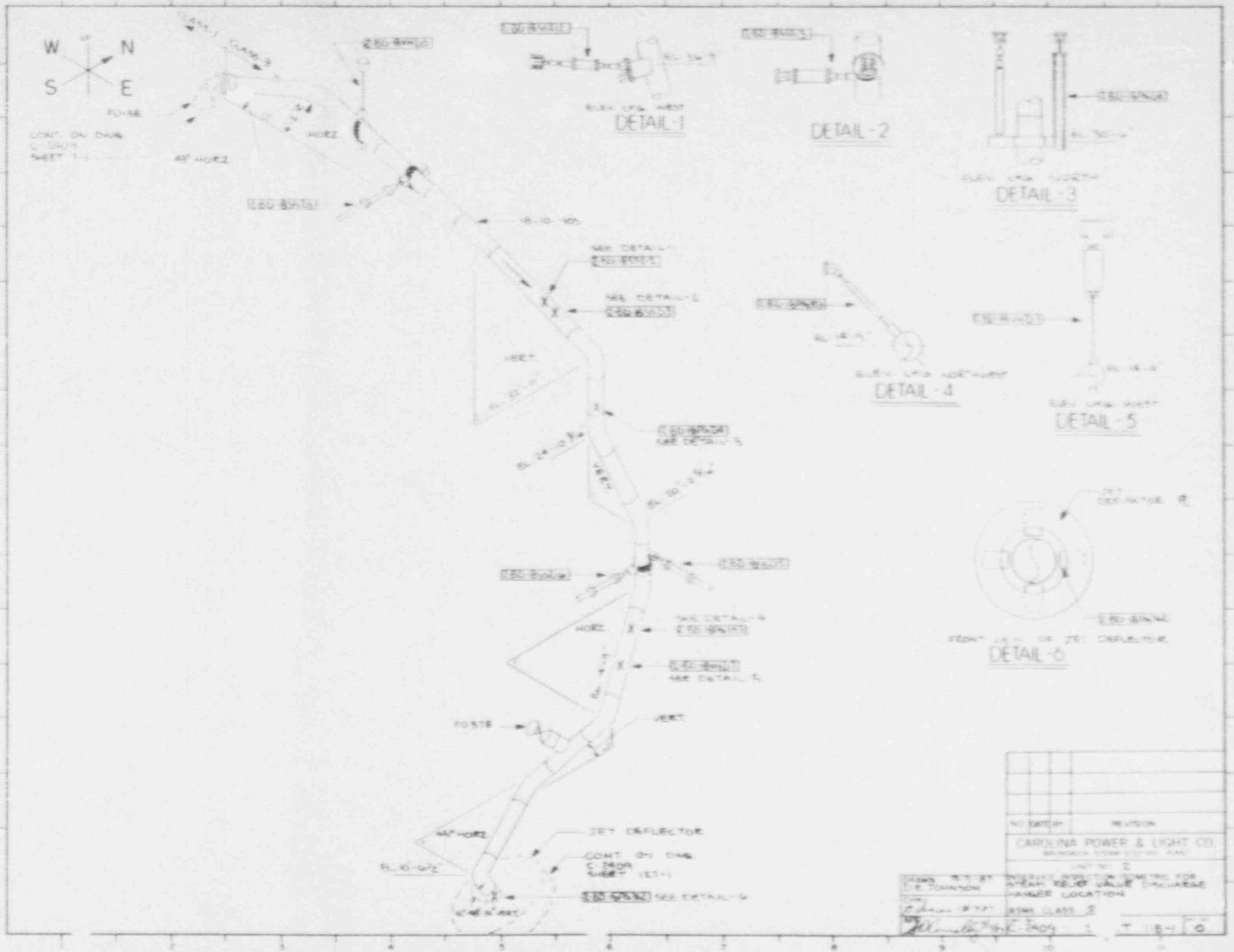

S
W
E
N
V-9
ELEV. LOOK WEST
DETAIL-1
ELEV. LOOK NORTH
DETAIL-2
ELEV. LOOK SOUTH
DETAIL-3
PLAN
DETAIL-4
CONT. ON DWG. C-2809 SHEET 90-1
CONT. ON DWG. C-2809 SHEET 90-1
ROOF EL. 26'-0"
FOO1
10"x10"x6 RED. TEE
PIPE CUT & CAPPED THEN PIPE REINSTALLED
SEE DETAIL-4
WALL SLEEVE
FLOOR SLEEVE
SEE DETAIL-3
SEE DETAIL-2
FOO1
V-8
SEE DETAIL-1
HIGH PRESSURE COOLANT INJECTION TURBINE CONTROL VALVE V-9 DWG. C-2809 SHEET 104-1
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR CLASS-2 HIGH PRESSURE COOLANT INJECTION SYSTEM HANGER LOCATION
ASME CLASS 2
C-2809 S-T 108-1
0

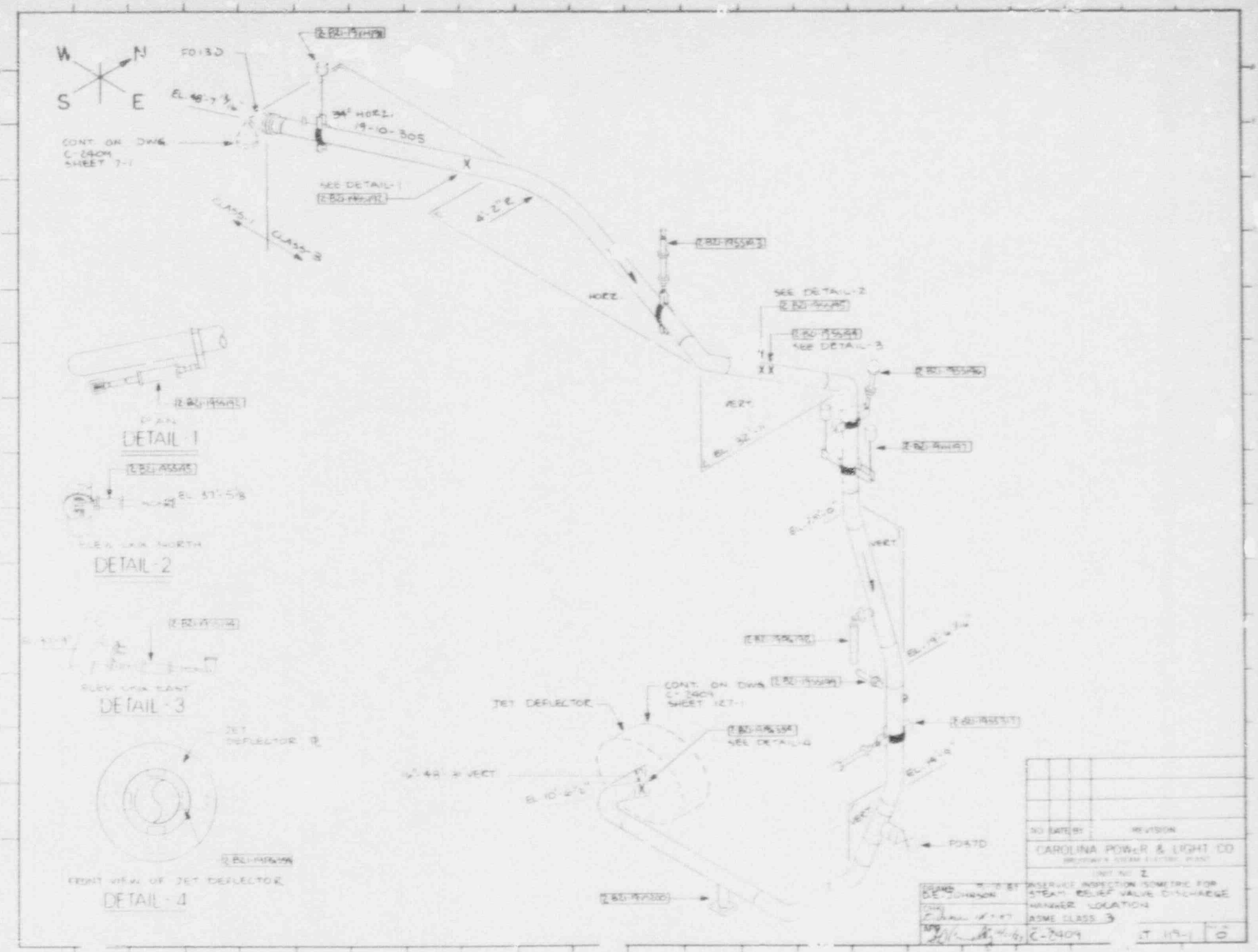

S
W
E
N
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
REF: FP 60036 Rev 6 SK-M-87-260-026
CONT. ON DWG. C-2409 SHEET 107-1
CONT. ON DWG. C-2409 SHEET 107-1
12-E41-60 PG 12
12-E41-60 PG 12
CLASS-1
CLASS-2
NON CLASSED CLASS-2
45° VERT.
45° HORIZ.
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
14" x 14" x 10" RED. TEE
60-14-904
PM 89-106
PM 87-260
REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR CLASS-2 HIGH PRESSURE COOLANT INJECTION SYSTEM HANGER LOCATIO
ASME CLASS 2
C-2409
107-1

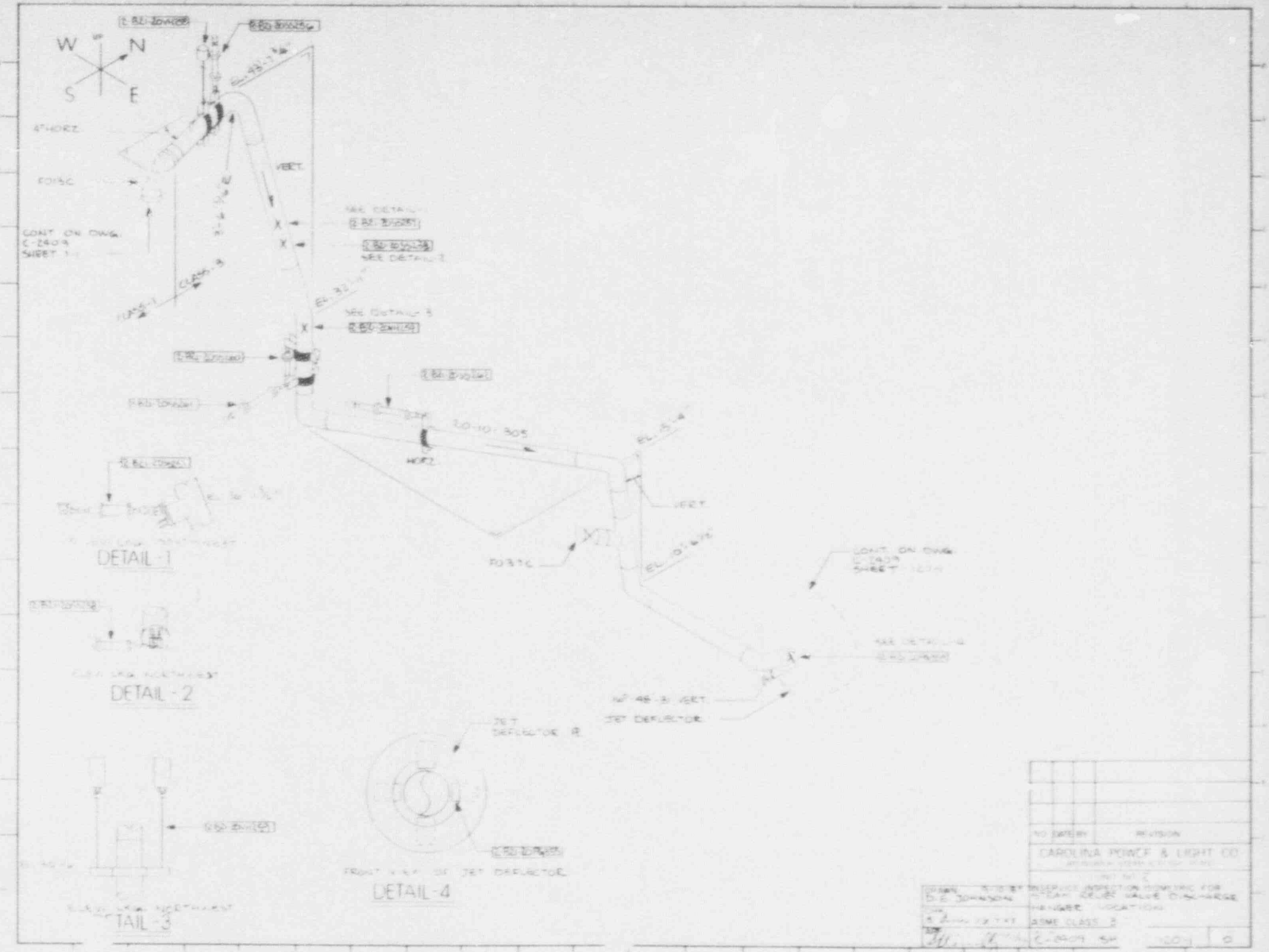

S
W
E
N
SEE DETAIL-1
EL 2'-1"
6-B-153
SEE DETAIL-2
CLASS-2
CLASS-2
FOD
FOD
22°-30' VORTEX
3-B-152
SEE DETAIL-3
45° VERT
TYP
STEAM SPARGER
CONT. ON DWG
C-2409
SHEET 162-1
ELEV LINE EAST
SIDE VIEW
DETAIL-1
PLAN AT EL 1'-5-1/2"
DETAIL-2
FOD
FOD
EL 2'-1"
EL 0'-7"
ELEV. LINE NORTH
DETAIL-3
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
SUPPRESSION CHAMBER
ASME CLASS 2
C-2409
SHT 162-1
0


W
N
S
E
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
JET DEFLECTOR
CONT ON DWG C-2609 SHEET 12-1
CONT ON DWG C-2609 SHEET 6-1
CLASS-1
CLASS-3
VERT
HORZ
CAROLINA POWER & LIGHT CO
ASME CLASS 3
C-2609


N
S
E
ELEV. LKG. SOUTH
DETAIL-1
ELEV. LKG. SOUTH
DETAIL-2
ELEV. LKG. WEST
DETAIL-3
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-4
SEE DETAIL-2
SEE DETAIL-3
HORZ.
15° HORZ.
CLASS 3
CLASS 1
SEE DETAIL-1
14" OF VERT.
CONT. ON DWG. C-2409 SHEET 1-1
45° VERT.
12-10-305
16"-46'-3½" VERT.
JET DEFLECTOR
CONT. ON DWG. C-2409 SHEET 1-2-1
SEE DETAIL-4
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR STEAM RELIEF VALVE DISCHARGE HANGER LOCATION
ASME CLASS 3
C-2409


W
N
S
E
UP
FLOWE
CONT. ON DWG.
C-DAVIS
SHEET 1-1
45° HORIZ
HORIZ
VERT.
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
SEE DETAIL-5
SEE DETAIL-6
FOSTE
JET DEFLECTOR
CONT. ON DWG.
C-DAVIS
SHEET (2)-1
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
DETAIL-5
DETAIL-6
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
NO. DATE BY
REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN
C.E. TOWNSON
INSERVICE INSPECTION ISOMETRIC FOR
STEAM RELIEF VALVE DISCHARGE
HANGER LOCATION
ASME CLASS 2
SCALE
1:
T
B-1
0


W
N
S
E
FO13D
EL 48-7 3/4
34" HORZ.
19-10-305
CONT. ON DWG
C-2409
SHEET 7-1
SEE DETAIL-1
CLASS-1
CLASS-3
HORZ.
SEE DETAIL-2
SEE DETAIL-3
VERT.
EL 32-7
EL 24-0
VERT.
PLAN
DETAIL-1
EL 37-5 3/8
VIEW LOOK NORTH
DETAIL-2
VIEW LOOK EAST
DETAIL-3
JET DEFLECTOR
CONT. ON DWG
C-2409
SHEET 127-1
JET DEFLECTOR
SEE DETAIL-4
EL 10-6 1/2
VERT
FO47D
FRONT VIEW OF JET DEFLECTOR
DETAIL-4
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
STEAM RELIEF VALVE DISCHARGE
HANGER LOCATION
ASME CLASS 3
C-2409
0


W
N
S
E
4" HORZ
FORGE
VERT
CONT ON DWG.
C-2409
SHEET 1
CLASS 3
CLASS 1
EL. 32'-0"
SEE DETAIL 3
HORZ
20-10-305
EL. 5'-0"
VERT
FORGE
EL. 0'-6"
CONT ON DWG.
C-2409
SHEET 1
SEE DETAIL 4
NPS 48-3 VERT
JET DEFLECTOR
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-1
DETAIL-2
DETAIL-3
DETAIL-4
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
D.E. JOHNSON
ASME CLASS 3
C-2409 SH
0

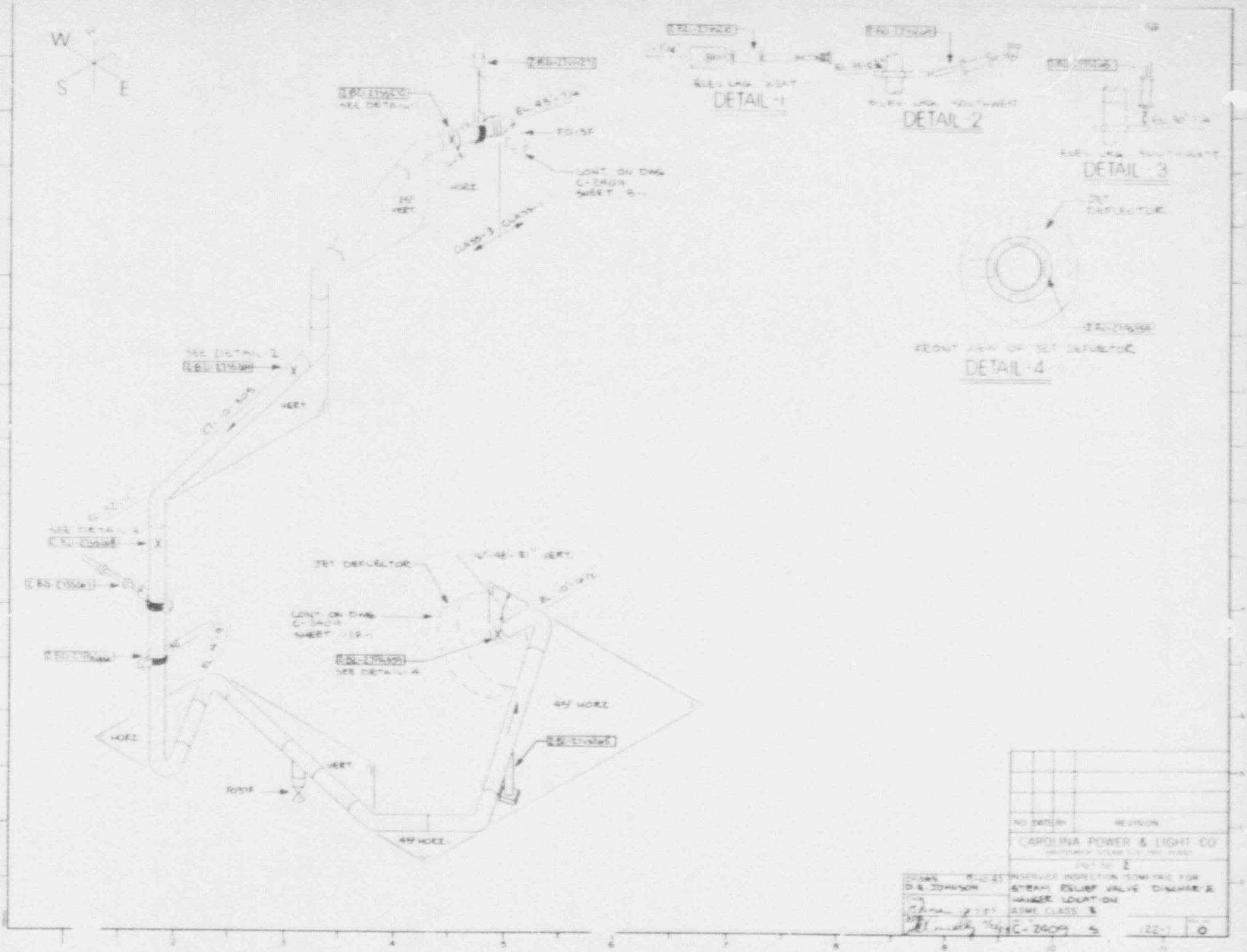
NO	DATE	BY	REVISION

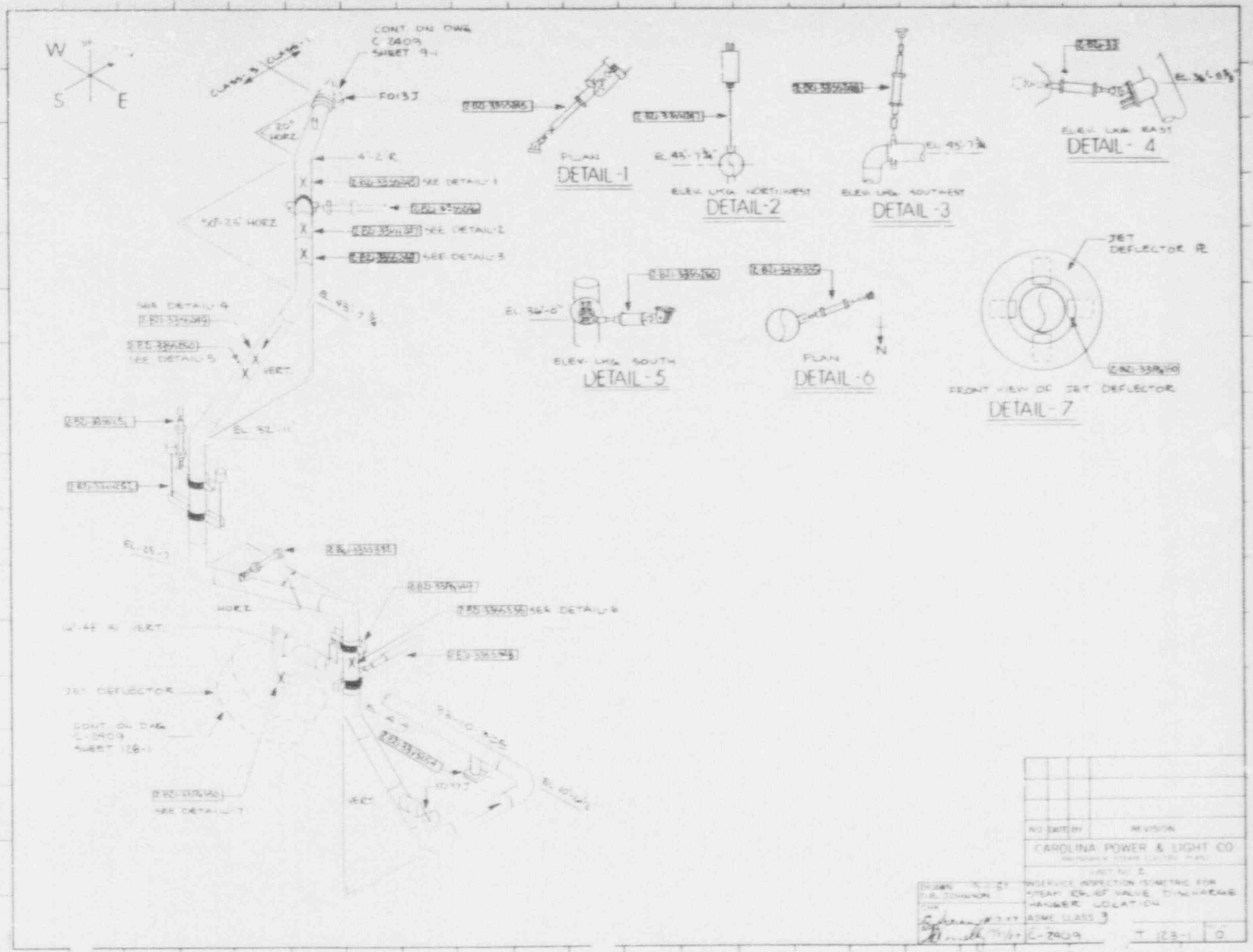
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 1

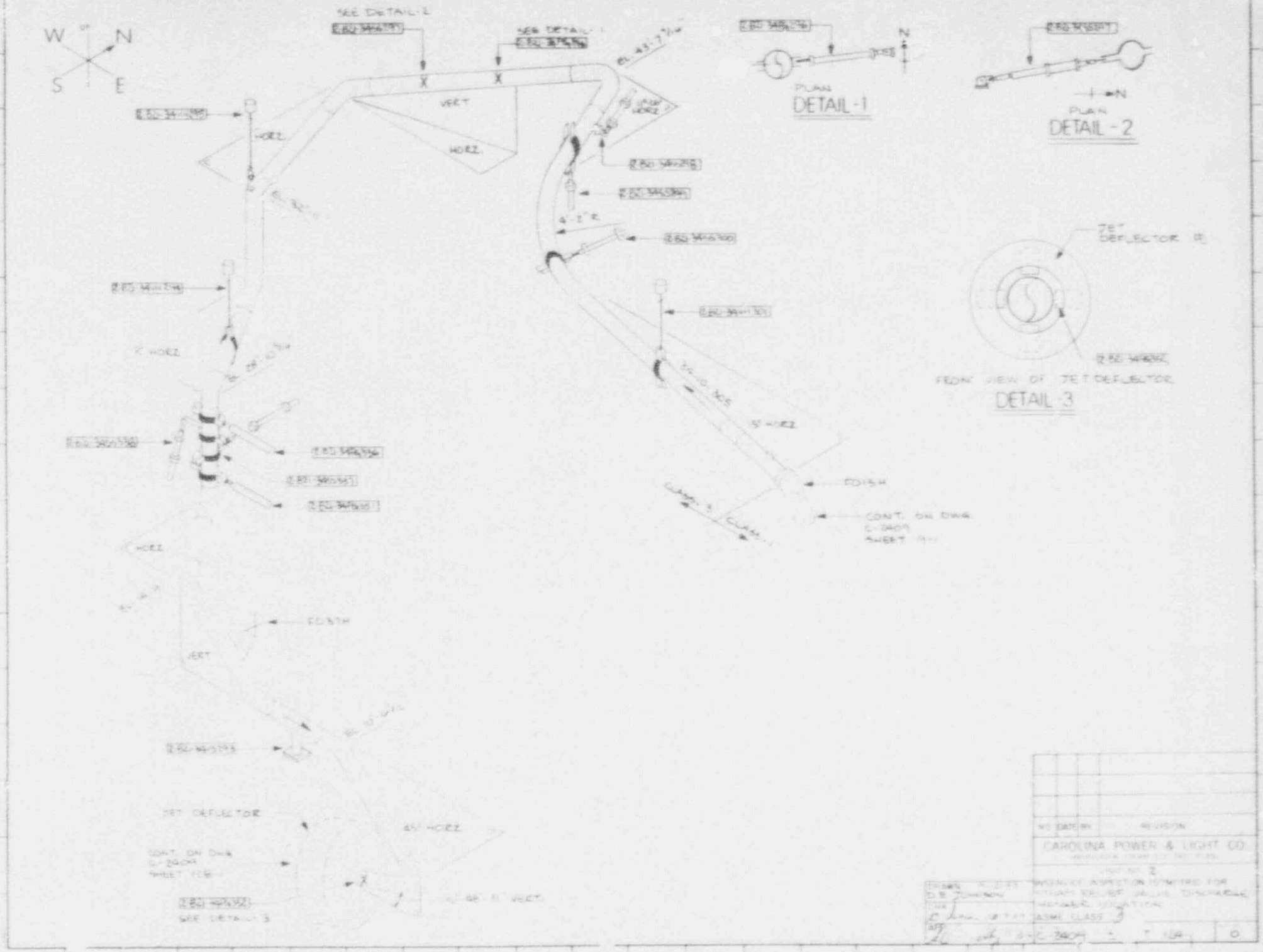
DRAWN 5-12-83 D.E. JOHNSON
CHK.
APP.

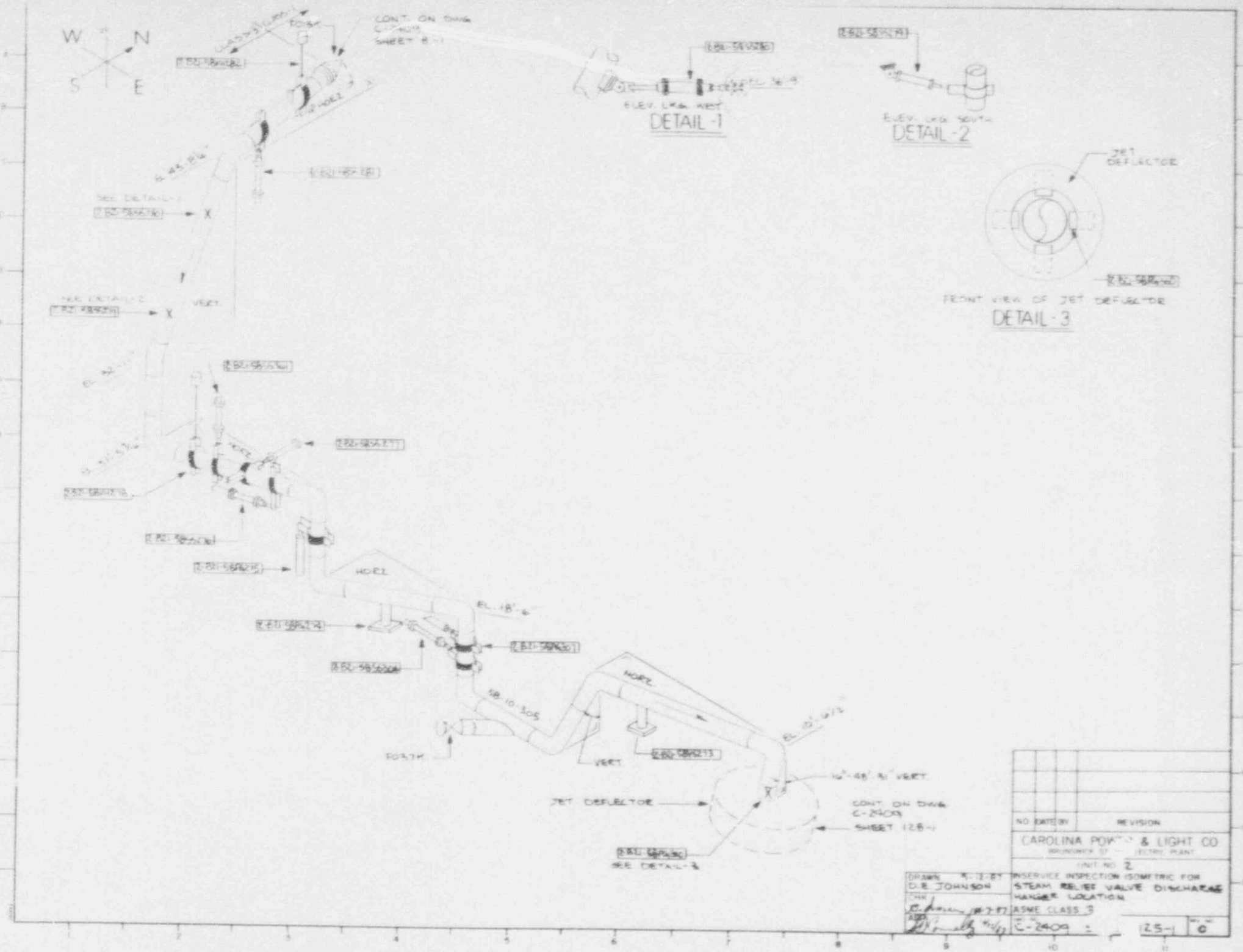
INSERVICE INSPECTION ISOMETRIC FOR STEAM RELIEF VALVE DISCHARGE HANGER LOCATION
ASME CLASS 3

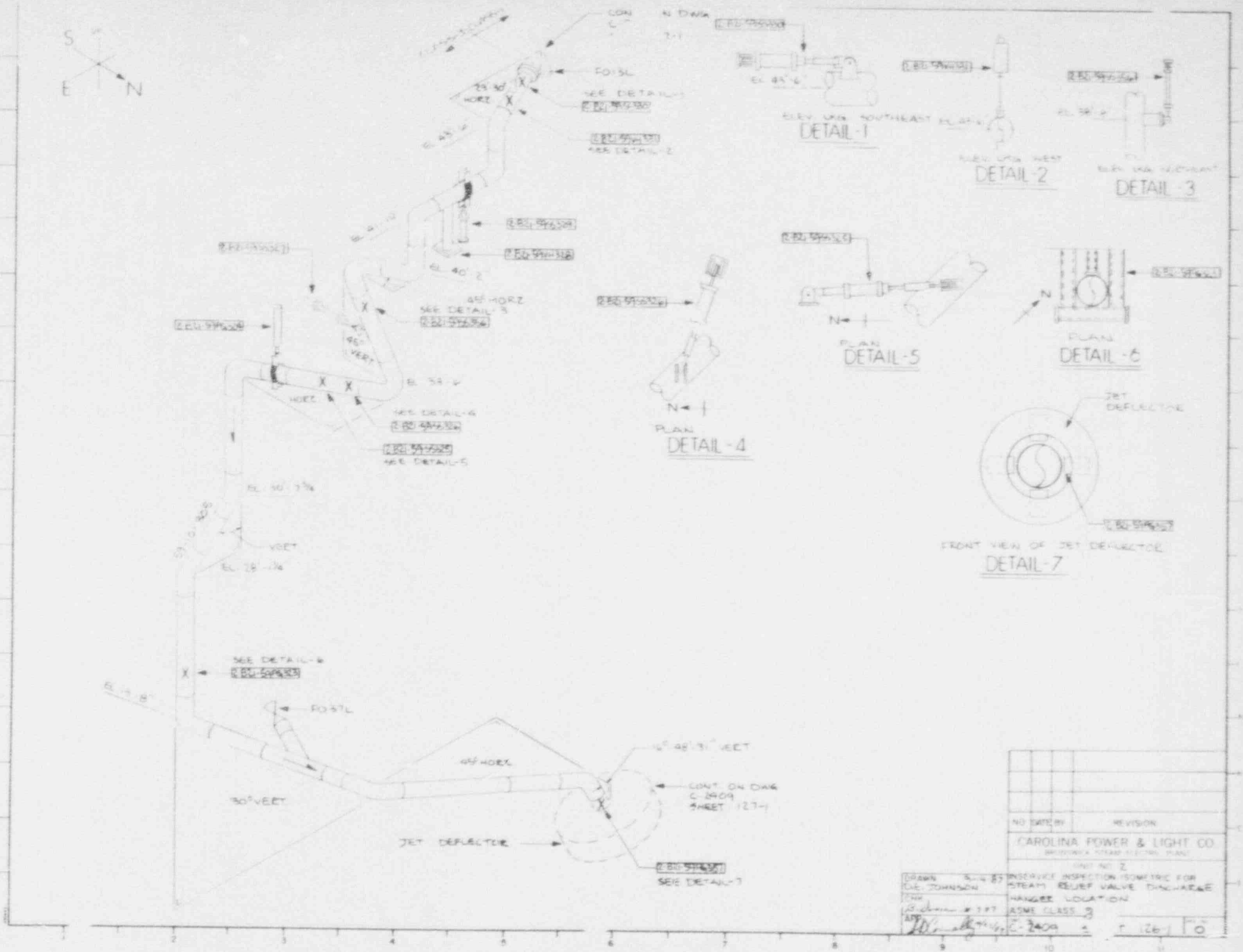
C-2409 SHEET 121 REV. 0

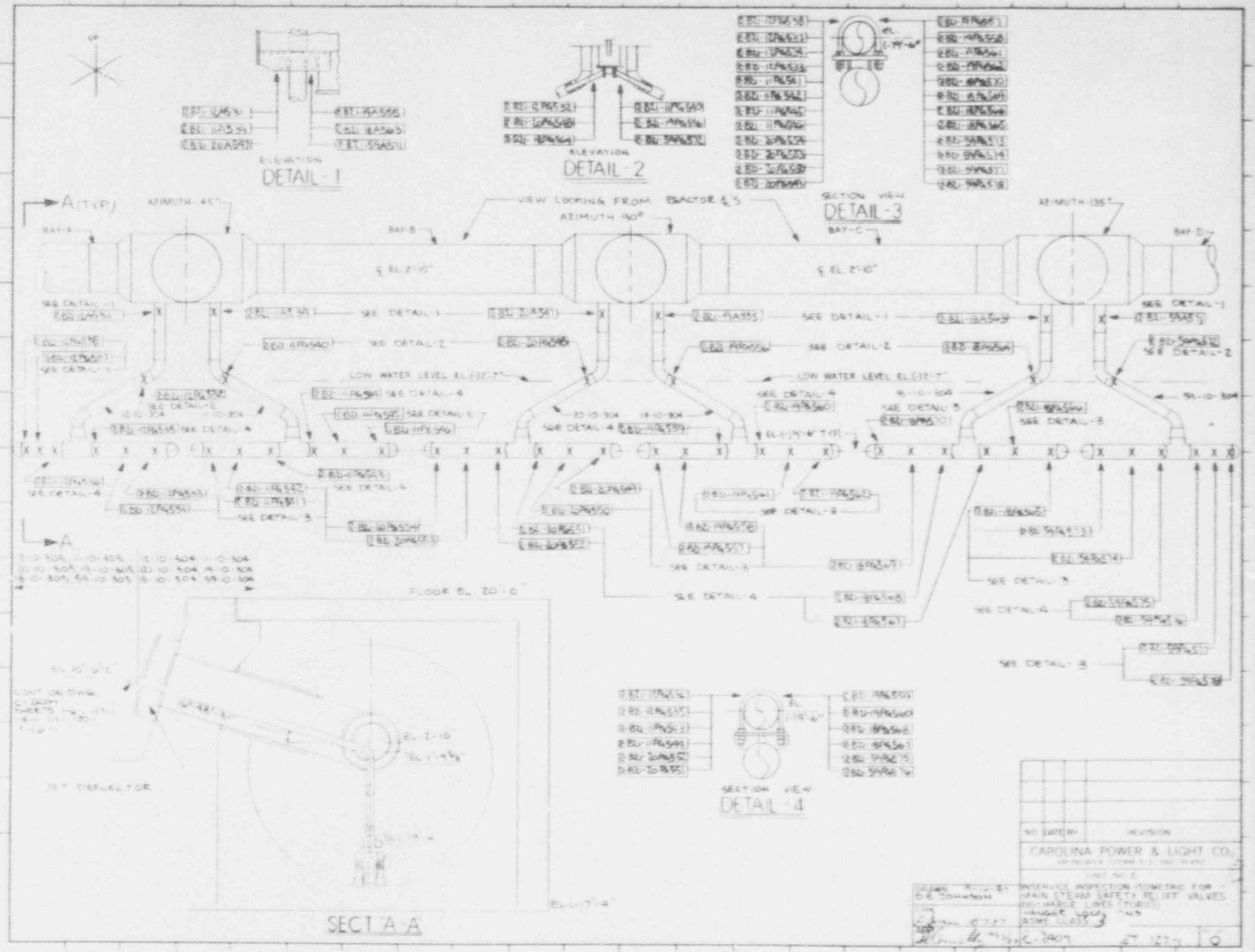

W
S
E
SEE DETAIL
EL. 45'-7 1/4"
FD-3F
CONT ON DWG
C-2409
SHEET 8
HORZ
VERT
CLASS 3 CLAMP
DETAIL-1
DETAIL-2
DETAIL-3
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-4
SEE DETAIL-2
VERT
SEE DETAIL-3
JET DEFLECTOR
CONT ON DWG
C-2409
SHEET 12
SEE DETAIL-4
45° HORZ
HORZ
VERT
ROOF
45° HORZ
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
SHEET NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
STEAM RELIEF VALVE DISCHARGE
HANGER LOCATION
ASME CLASS 3
D. E. JOHNSON
C-2409
22-1
0

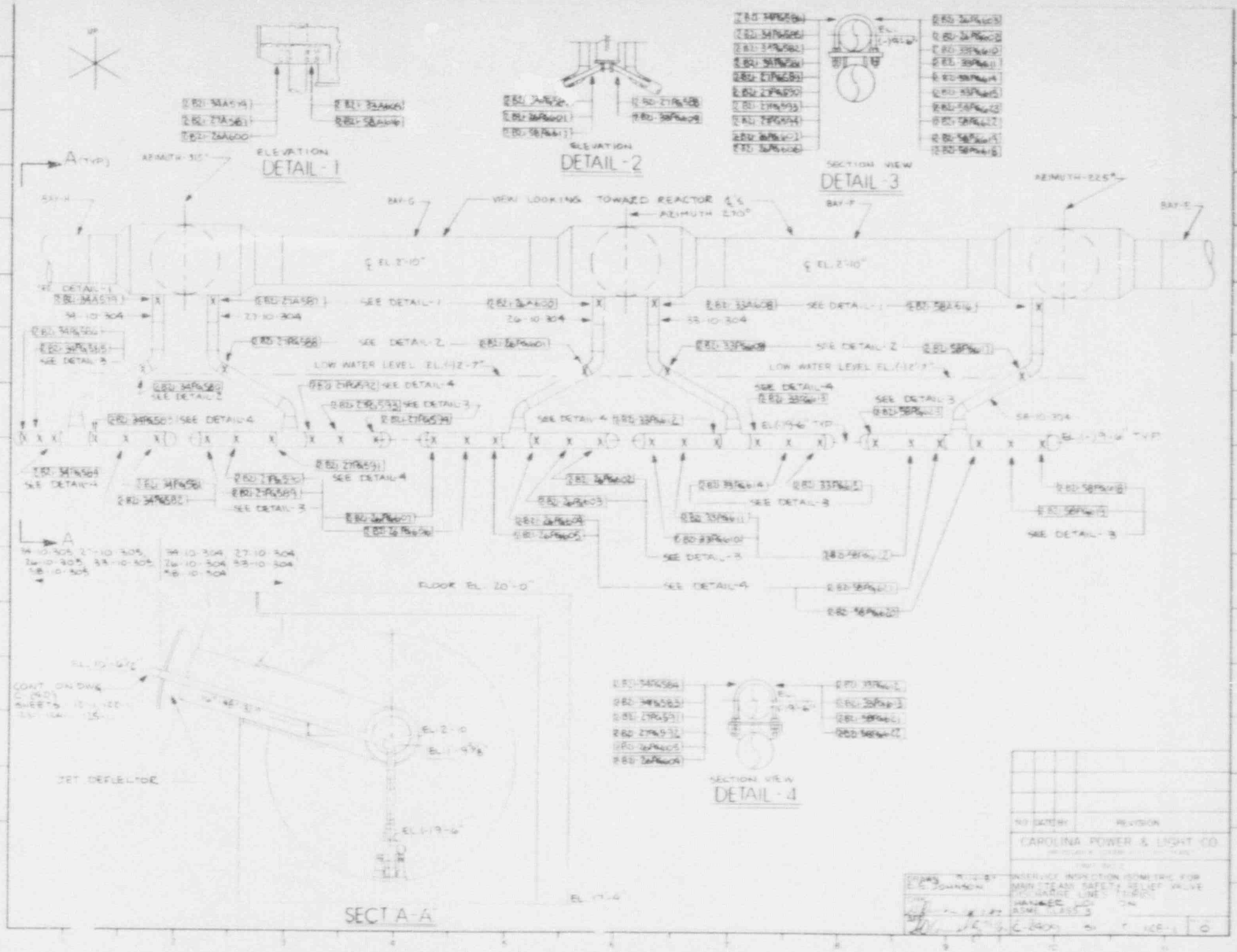

W
S
E
CONT ON DWG
C 2409
SHEET 9-1
F013J
20°
HORZ
4'-2" R
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
50'-2½" HORZ
SEE DETAIL-4
SEE DETAIL-5
VERT
EL 32'-11
EL 25'-7
HORZ
SEE DETAIL-6
JET DEFLECTOR
CONT ON DWG
C-2409
SHEET 10-1
SEE DETAIL-7
VERT
PLAN
DETAIL-1
EL 45'-7¾"
ELEV. LKG NORTHWEST
DETAIL-2
EL 45'-7¾"
ELEV. LKG SOUTHWEST
DETAIL-3
ELEV. LKG EAST
DETAIL-4
EL 36'-0"
ELEV. LKG SOUTH
DETAIL-5
PLAN
N
DETAIL-6
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-7
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
SHEET NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
STEAM RELIEF VALVE DISCHARGE
HANGER LOCATION
ASME CLASS 3
C-2409
T 123-1
0

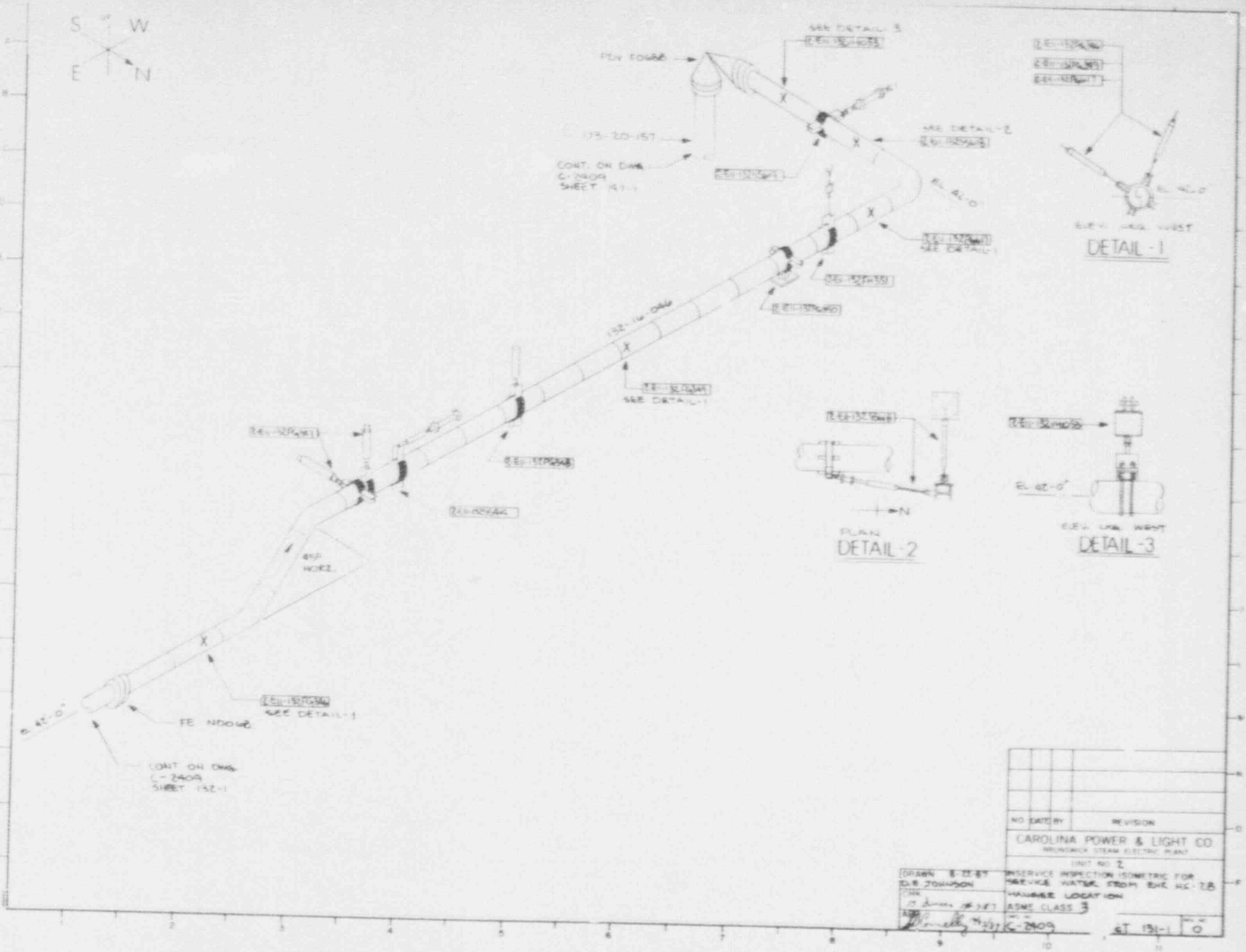

W
N
S
E
SEE DETAIL-2
SEE DETAIL-1
VERT
HORZ
HORZ
HORZ
HORZ
VERT
JET DEFLECTOR
CONT. ON DWG
SEE DETAIL-3
PLAN
DETAIL-1
PLAN
DETAIL-2
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-3
CONT. ON DWG
CAROLINA POWER & LIGHT CO
ASME CLASS 3

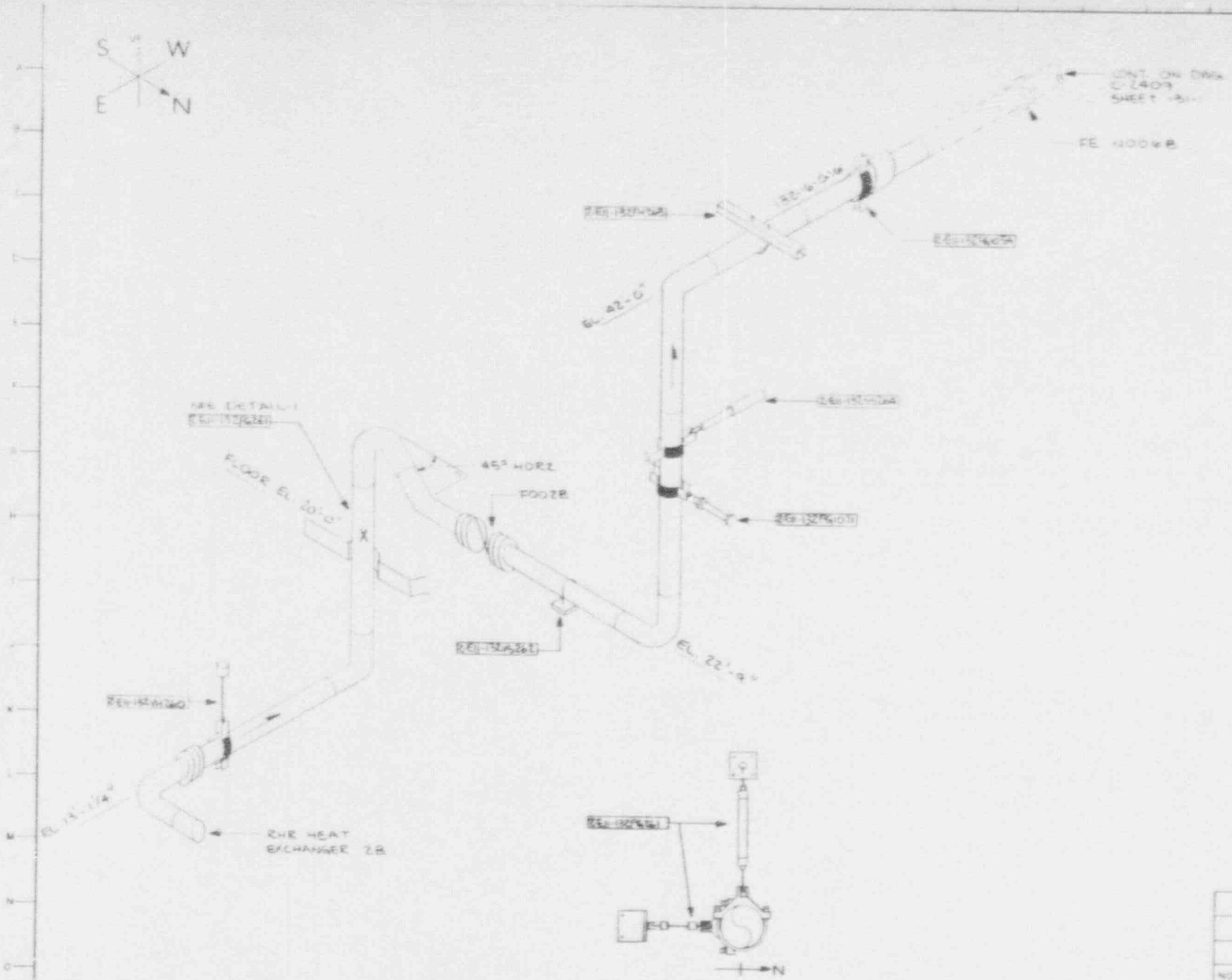

W
N
S
E
CONT. ON DWG. C-2409 SHEET 8-1
EL. 36'-9"
ELEV. LOOK WEST
DETAIL-1
ELEV. LOOK SOUTH
DETAIL-2
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-3
SEE DETAIL-1
SEE DETAIL-2
VERT.
HORIZ.
EL. 18'-6"
SR-10-305
EL. 10'-6 1/2"
NORTH
VERT.
JET DEFLECTOR
CONT. ON DWG. C-2409 SHEET 12B-1
SEE DETAIL-3
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 5-12-87
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR STEAM RELIEF VALVE DISCHARGE HANGER LOCATION
ASME CLASS 3
C-2409
125-1
0


S
E
N
CONT. ON DWG
FO-3L
SEE DETAIL-1
SEE DETAIL-2
EL 45'-6"
ELEV. LOOK SOUTHEAST
DETAIL-1
ELEV. LOOK WEST
DETAIL-2
ELEV. LOOK SOUTHEAST
DETAIL-3
EL 40'-2"
45° HORZ
SEE DETAIL-3
HORZ
EL 38'-6"
SEE DETAIL-4
SEE DETAIL-5
PLAN
DETAIL-4
PLAN
DETAIL-5
PLAN
DETAIL-6
JET DEFLECTOR
FRONT VIEW OF JET DEFLECTOR
DETAIL-7
EL 30'-7 3/4"
VERT
EL 28'-1/4"
SEE DETAIL-6
EL 19'-8"
FO-3L
45° HORZ
30° VERT
16" 48'-3" VERT
CONT. ON DWG
C-2409
SHEET 127-1
JET DEFLECTOR
SEE DETAIL-7
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
STEAM RELIEF VALVE DISCHARGE
HANGER LOCATION
ASME CLASS 3
DRAWN
DR. JOHNSON
C-2409
127-1
0


DETAIL - 1
ELEVATION
DETAIL - 2
ELEVATION
DETAIL - 3
SECTION VIEW
DETAIL - 4
SECTION VIEW
SECT A-A
A (TYP)
AZIMUTH - 45°
AZIMUTH - 90°
AZIMUTH - 135°
VIEW LOOKING FROM REACTOR ℄'S
BAY-A
BAY-B
BAY-C
BAY-D
℄ EL. 2'-10"
SEE DETAIL - 1
SEE DETAIL - 2
SEE DETAIL - 3
SEE DETAIL - 4
LOW WATER LEVEL EL. (-)22'-7"
FLOOR EL. 20'-0"
JET DEFLECTOR
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
DRAWN D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM SAFETY RELIEF VALVES DISCHARGE LINES (TORUS)
HANGER LOCATIONS
ASME CLASS 3
C-2409
SET 127
0


ELEVATION
DETAIL - 1
ELEVATION
DETAIL - 2
SECTION VIEW
DETAIL - 3
AZIMUTH 315°
AZIMUTH 225°
BAY-H
BAY-G
BAY-F
BAY-E
VIEW LOOKING TOWARD REACTOR ℄
AZIMUTH 270°
℄ EL. 2'-10"
SEE DETAIL-1
SEE DETAIL-2
SEE DETAIL-3
SEE DETAIL-4
LOW WATER LEVEL EL.(-)12'-7"
FLOOR EL. 20'-0"
JET DEFLECTOR
SECTION VIEW
DETAIL - 4
SECT A-A
CAROLINA POWER & LIGHT CO.
REVISION
INSERVICE INSPECTION ISOMETRIC FOR
MAIN STEAM SAFETY RELIEF VALVE
ASME CLASS 3


S
W
E
N
SEE DETAIL-3
FLOW FOWRS
175-20-157
CONT. ON DWG
C-2409
SHEET 141-1
SEE DETAIL-2
EL. 42-0"
SEE DETAIL-1
SEE DETAIL-1
SEE DETAIL-1
4SP
HORIZ.
EL. 42-0"
FE NOZWR
SEE DETAIL-1
CONT ON DWG
C-2409
SHEET 132-1
DETAIL-1
PLAN
DETAIL-2
EL. 42-0"
DETAIL-3
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 8-12-87
D.B. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR
SERVICE WATER FROM EHC HX-2B
HANGER LOCATION
ASME CLASS 3
C-2409
ST 131-1
0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO 2

DRAWN 8-21-87 D.R. JOHNSON

CHK S. Dunn 8-27-87

APPD

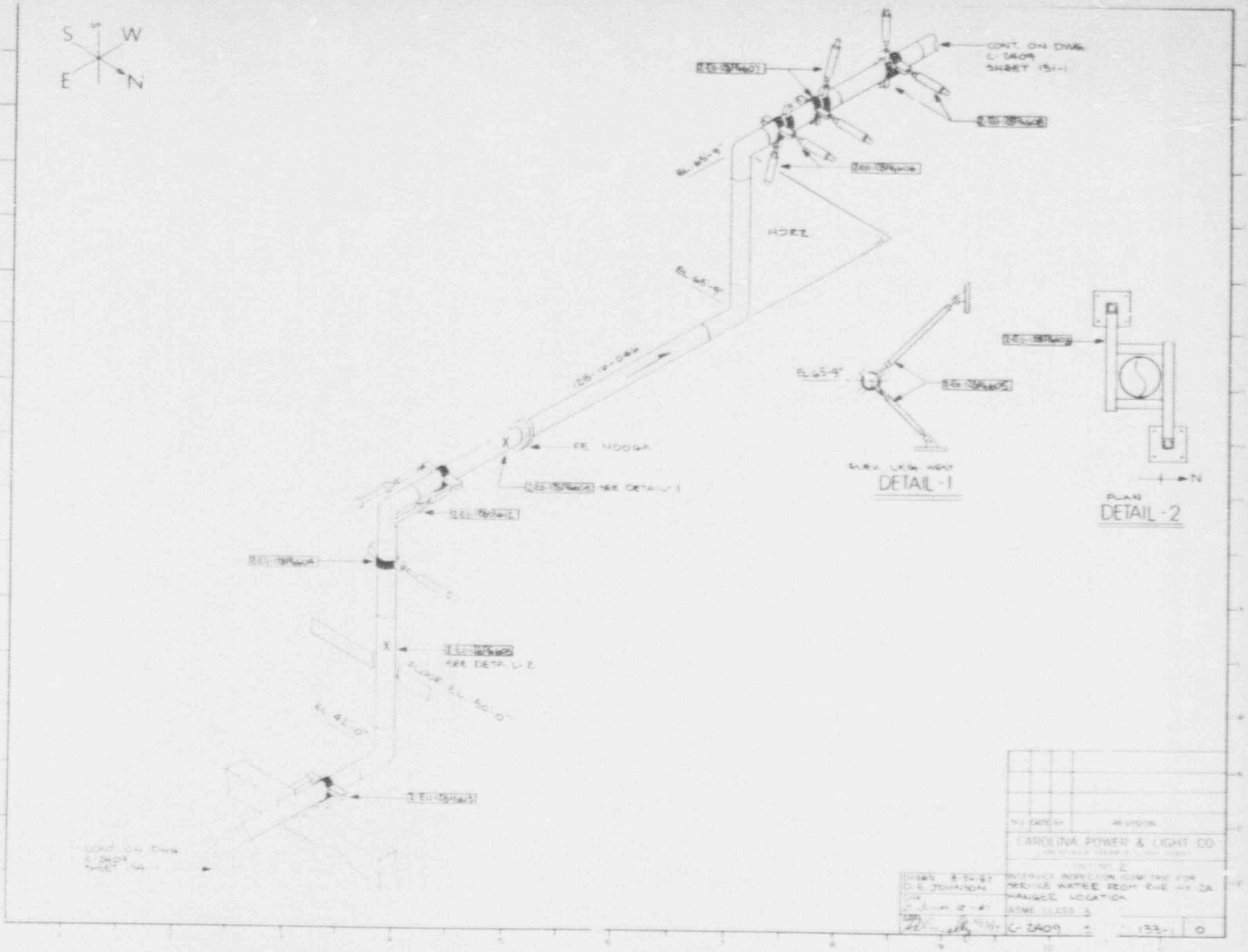
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER FROM RHR HEAT EXCHANGER 2B HANGER LOCATION

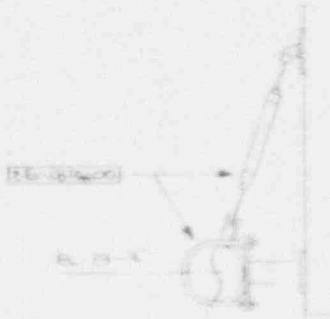
LINE CLASS 3

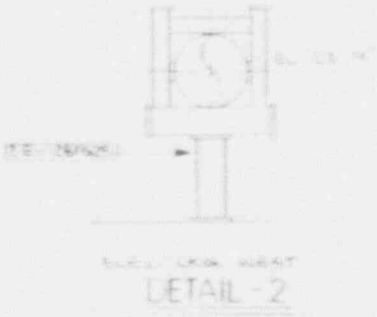
C-2409

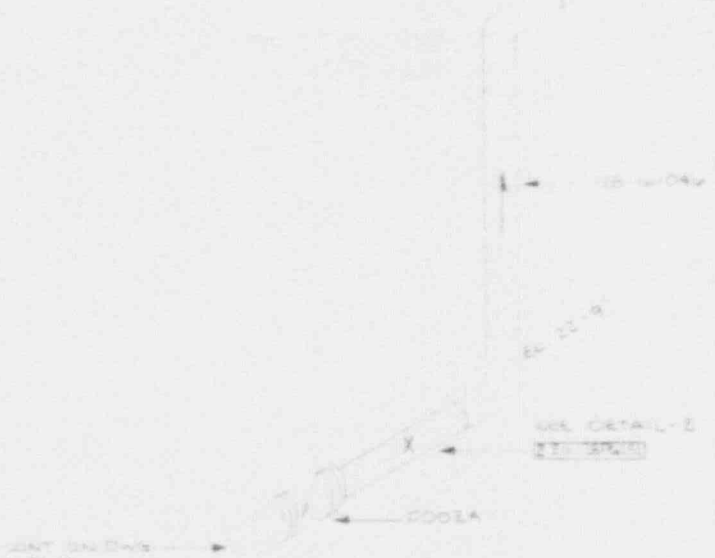
SHT 132-1

REV 0


S
W
E
N
UP
CONT. ON DWG. C-2A09 SHEET 151-1
EL 65'-9"
HORZ
EL 65'-9"
28'-10"-0"
FE NOOGA
SEE DETAIL-1
EL 65'-9"
ELEV. LOOK WEST
DETAIL-1
PLAN
DETAIL-2
N
SEE DETAIL-2
FLOOR EL 50'-0"
EL 42'-0"
CONT. ON DWG. C-2A09 SHEET 54-1
CAROLINA POWER & LIGHT CO.
SERVICE WATER FROM RHR HX 2A
C-2A09
151-1
0

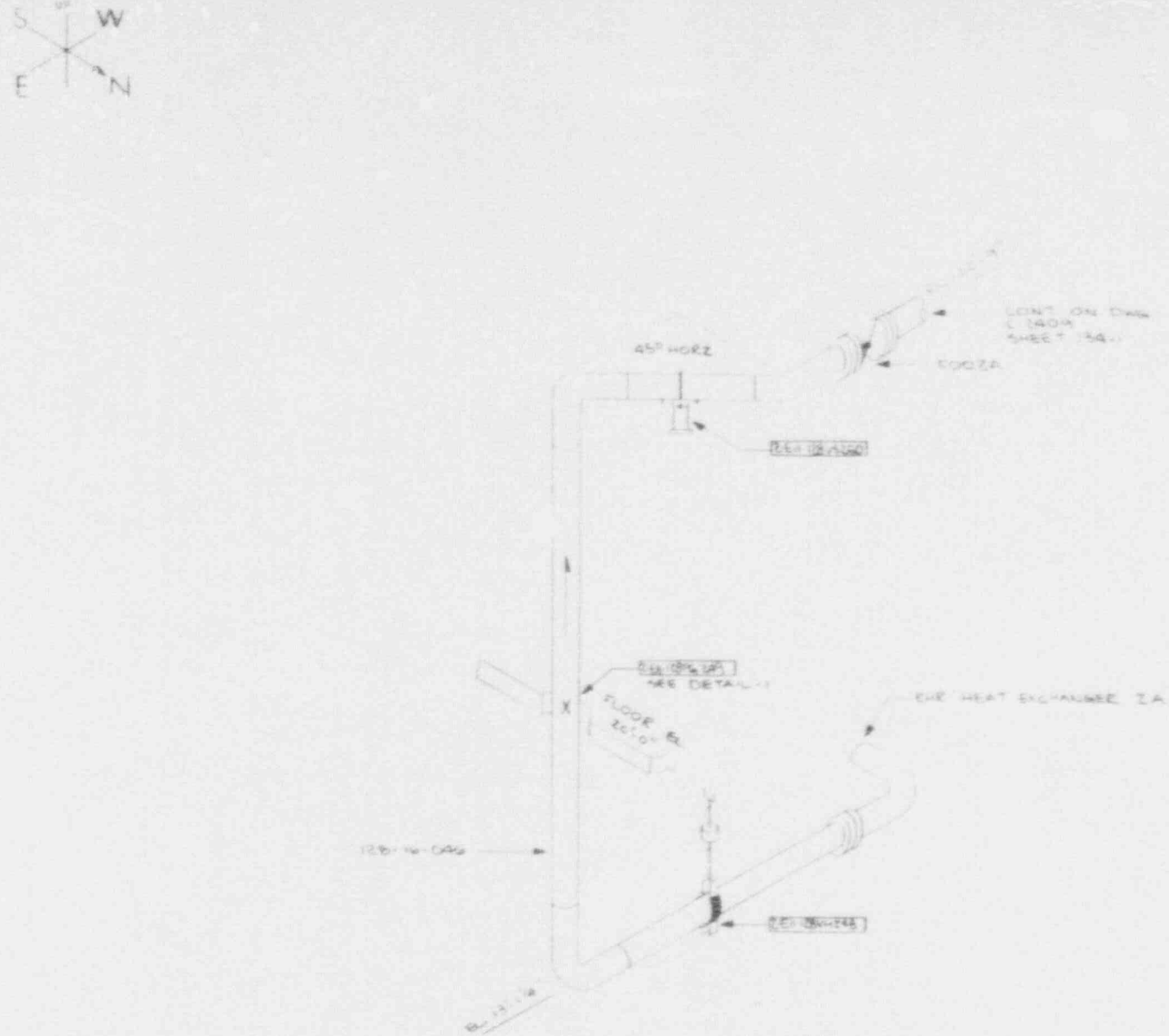


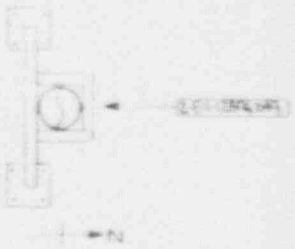




DRAWN BY D.E. JOHNSON	SERVICE WATER PIPE RUN HANGER LOCATION	
	SHEET 3	
	C-2409	0

CAROLINA POWER & LIGHT CO.





NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO

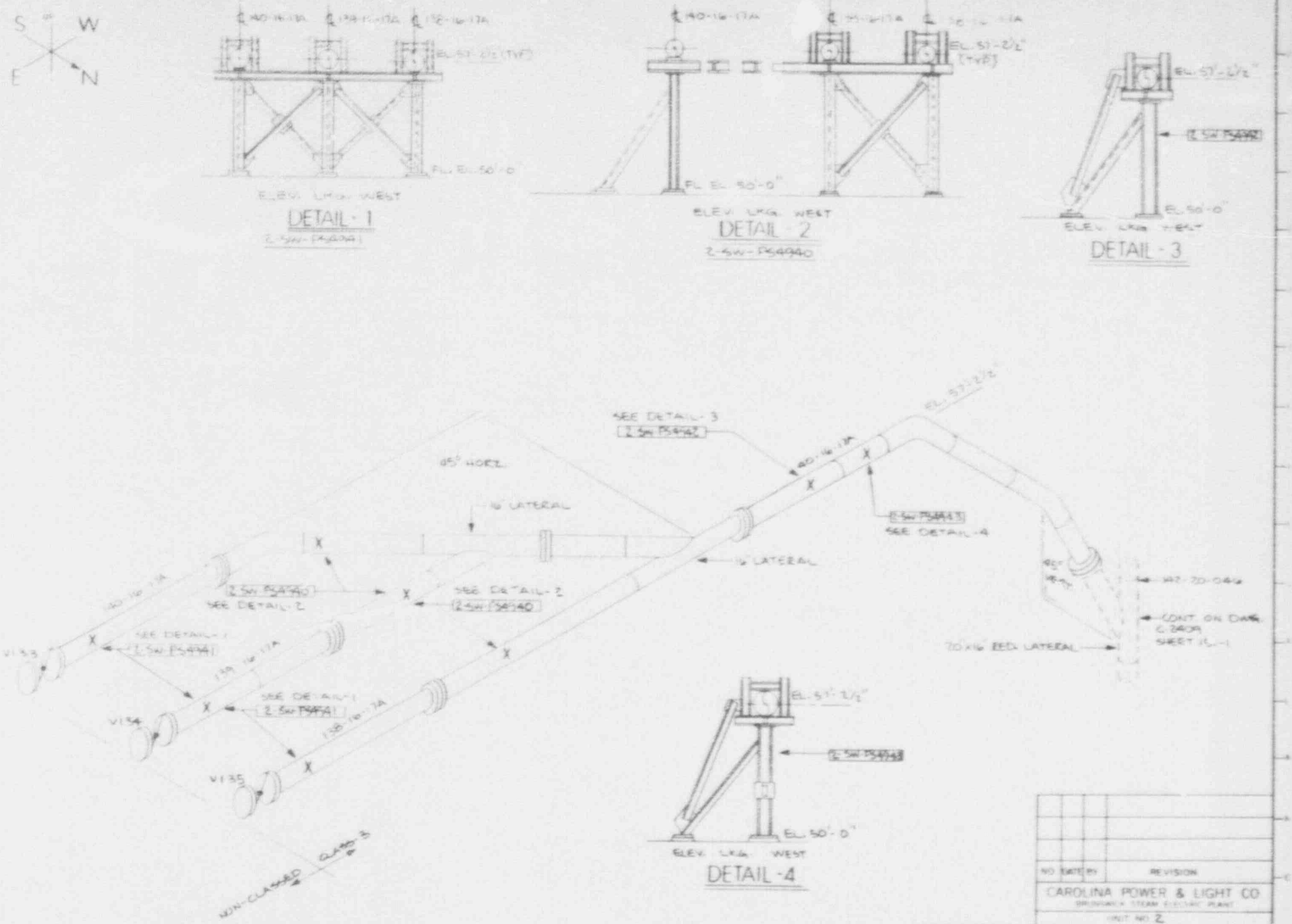
UNIT NO. 2

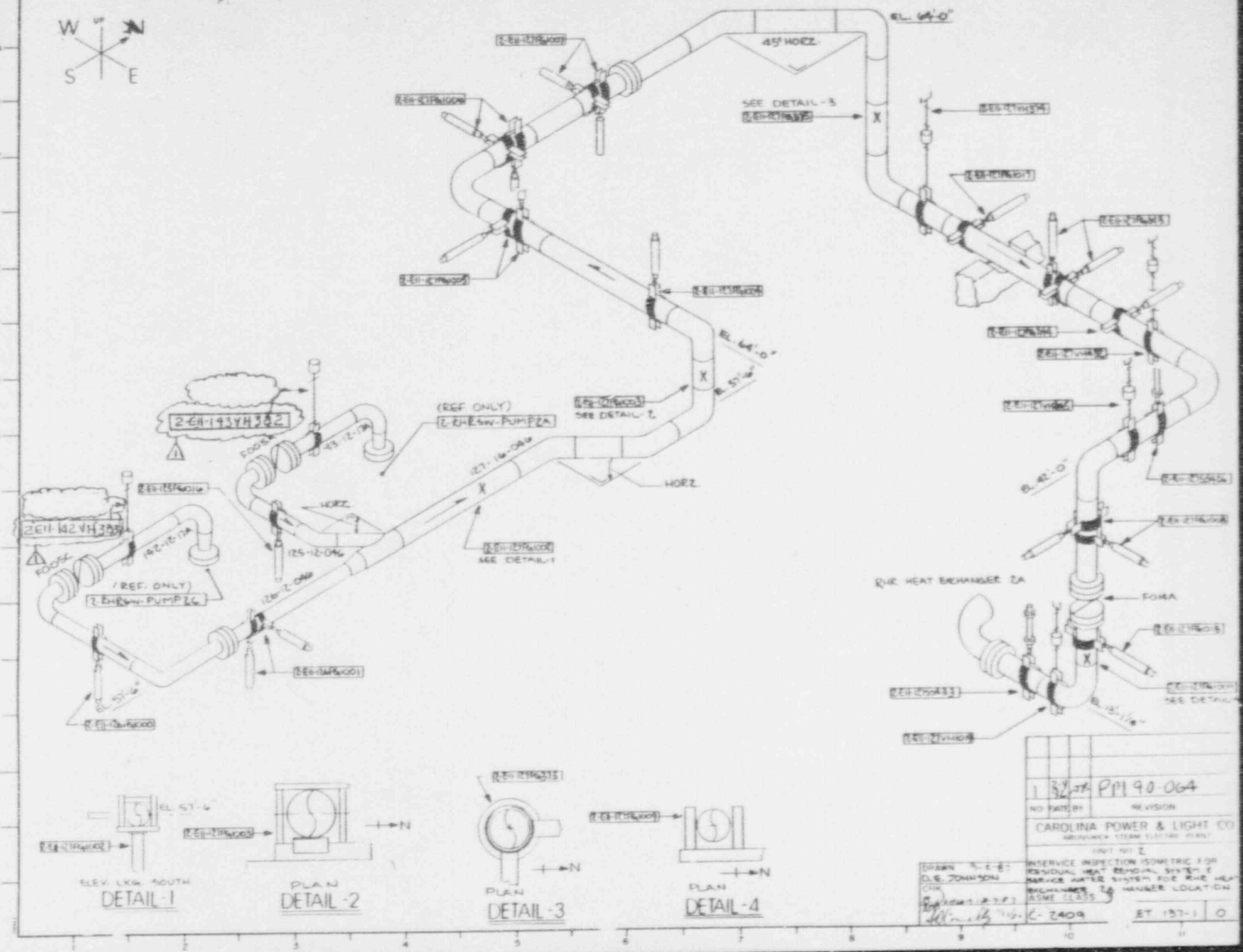
DRAWN 8-22-87 C.E. JOHNSON

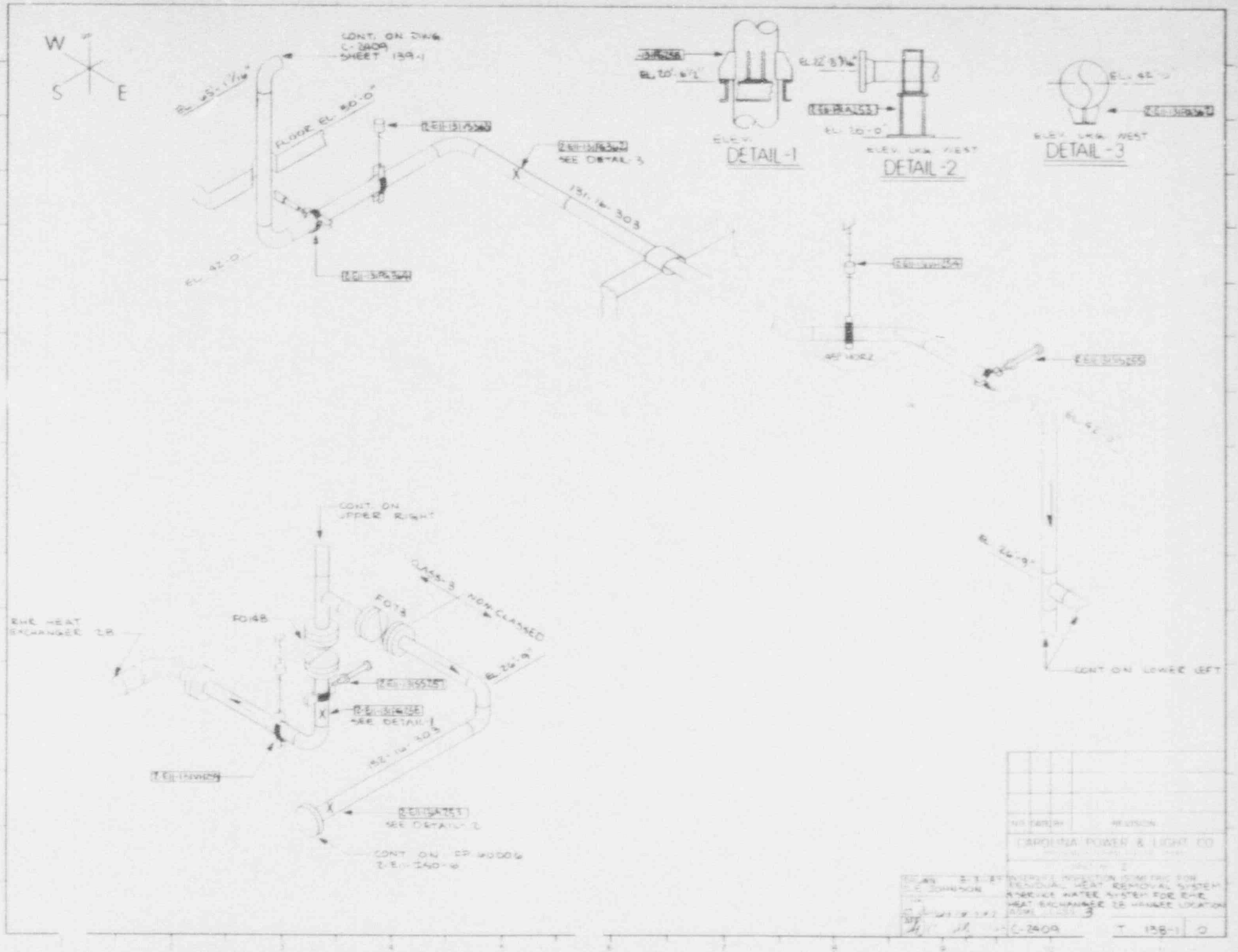
INSERVICE INSPECTION DOWNTRC FOR SERVICE WATER FROM EHE HX-2A HANGER LOCATION

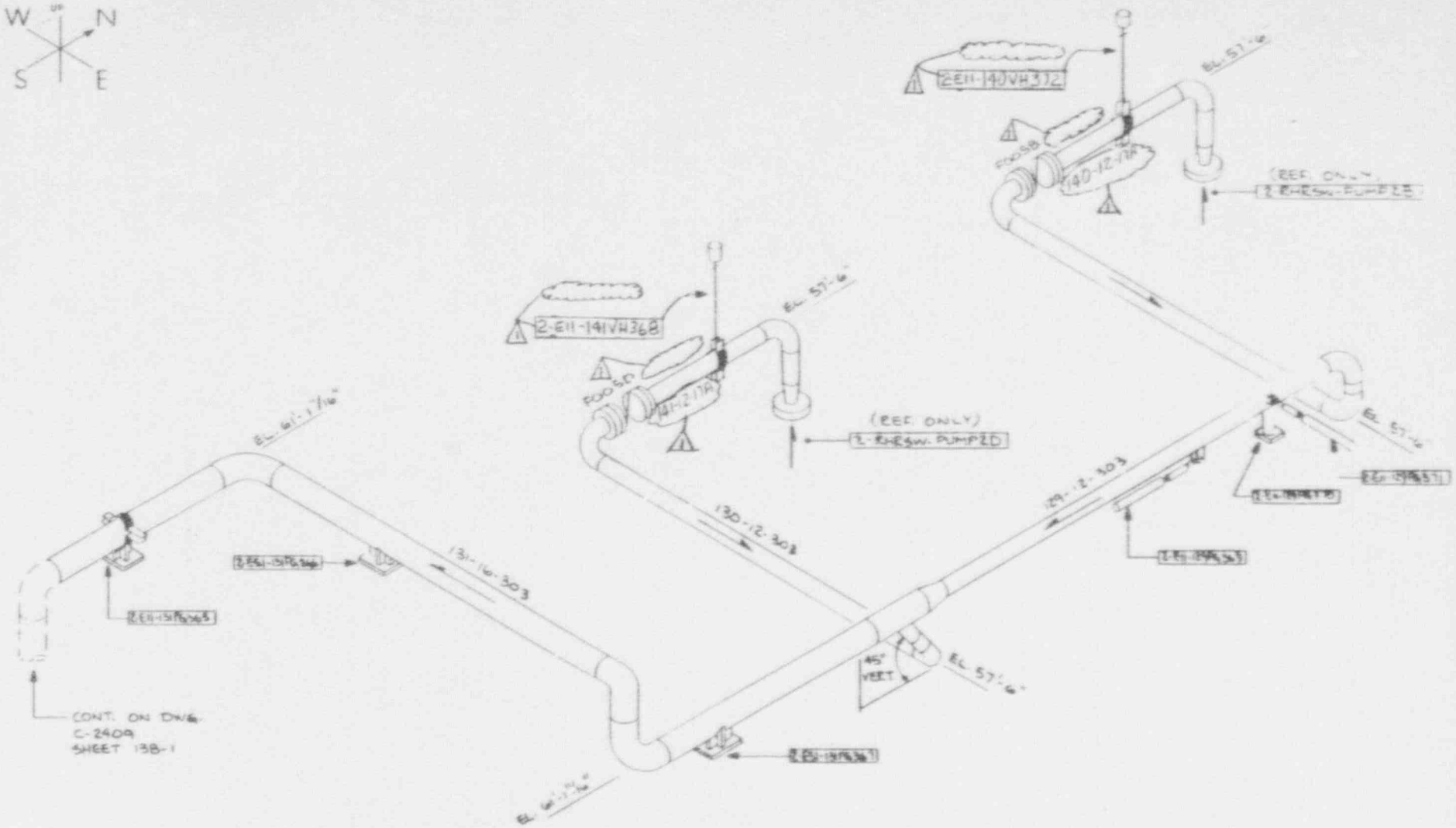
ASME CLASS 3

C-3A009 SHT 3A-1 0


S
W
E
N
EL. 51'-2 1/2" (TYP)
FL. EL. 50'-0"
ELEV. LKG. WEST
DETAIL - 1
2-SW-PS4941
EL. 51'-2 1/2"
(TYP)
FL. EL. 50'-0"
ELEV. LKG. WEST
DETAIL - 2
2-SW-PS4940
EL. 51'-2 1/2"
EL. 50'-0"
ELEV. LKG. WEST
DETAIL - 3
SEE DETAIL - 3
2-SW-PS4942
EL. 51'-2 1/2"
85° HORZ.
16" LATERAL
16" LATERAL
2-SW-PS4943
SEE DETAIL - 4
2-SW-PS4940
SEE DETAIL - 2
SEE DETAIL - 2
2-SW-PS4940
SEE DETAIL - 1
2-SW-PS4941
SEE DETAIL - 1
2-SW-PS4941
V133
V134
V135
NON-CLASSED
CLASS 3
CONT. ON DWG. C-2409 SHEET 15-1
70 x 16 RED. LATERAL
EL. 51'-2 1/2"
EL. 50'-0"
ELEV. LKG. WEST
DETAIL - 4
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER RBCCW HX'S HANGER LOCATION
ASME CLASS 3
C-2409
ET 136-1
0


W
N
S
E
EL. 64'-0"
45° HORZ.
SEE DETAIL-3
EL. 64'-0"
EL. 57'-6"
SEE DETAIL-2
HORZ.
(REF. ONLY)
2-RHRSW-PUMP2A
2-E11-193VH382
FOOT
143-12-17A
127-16-046
HORZ.
125-12-046
SEE DETAIL-1
2E11-142VH383
142-12-17A
(REF. ONLY)
2-RHRSW-PUMP2B
126-12-046
EL. 57'-6"
EL. 42'-0"
RHR HEAT EXCHANGER 2A
FOR A
SEE DETAIL-4
EL. 13'-1 1/8"
EL. 57'-6"
ELEV. LKG. SOUTH
DETAIL-1
PLAN
DETAIL-2
PLAN
DETAIL-3
PLAN
DETAIL-4
N
N
N
1 | 3/2 | JTA | PM 90-064
NO | DATE | BY | REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM & SERVICE WATER SYSTEM FOR RHR HEAT EXCHANGER 2A HANGER LOCATION
ASME CLASS 3
DRAWN 5-2-87 D.E. JOHNSON
C-2409
ET 137-1
0


W
S
E
CONT. ON DWG. C-2409 SHEET 139-1
FLOOR EL. 80'-0"
SEE DETAIL 3
EL. 42'-0"
DETAIL-1
DETAIL-2
DETAIL-3
CONT. ON UPPER RIGHT
CLASS-3 NON-CLASSED
RHR HEAT EXCHANGER 2B
SEE DETAIL 1
SEE DETAIL 2
CONT. ON DF W0006 2-E11-1140-6
CONT. ON LOWER LEFT
CAROLINA POWER & LIGHT CO
C-2409
T 138-1
0



NO	DATE	BY	REVISION
1	7-9-90		PM 90-064

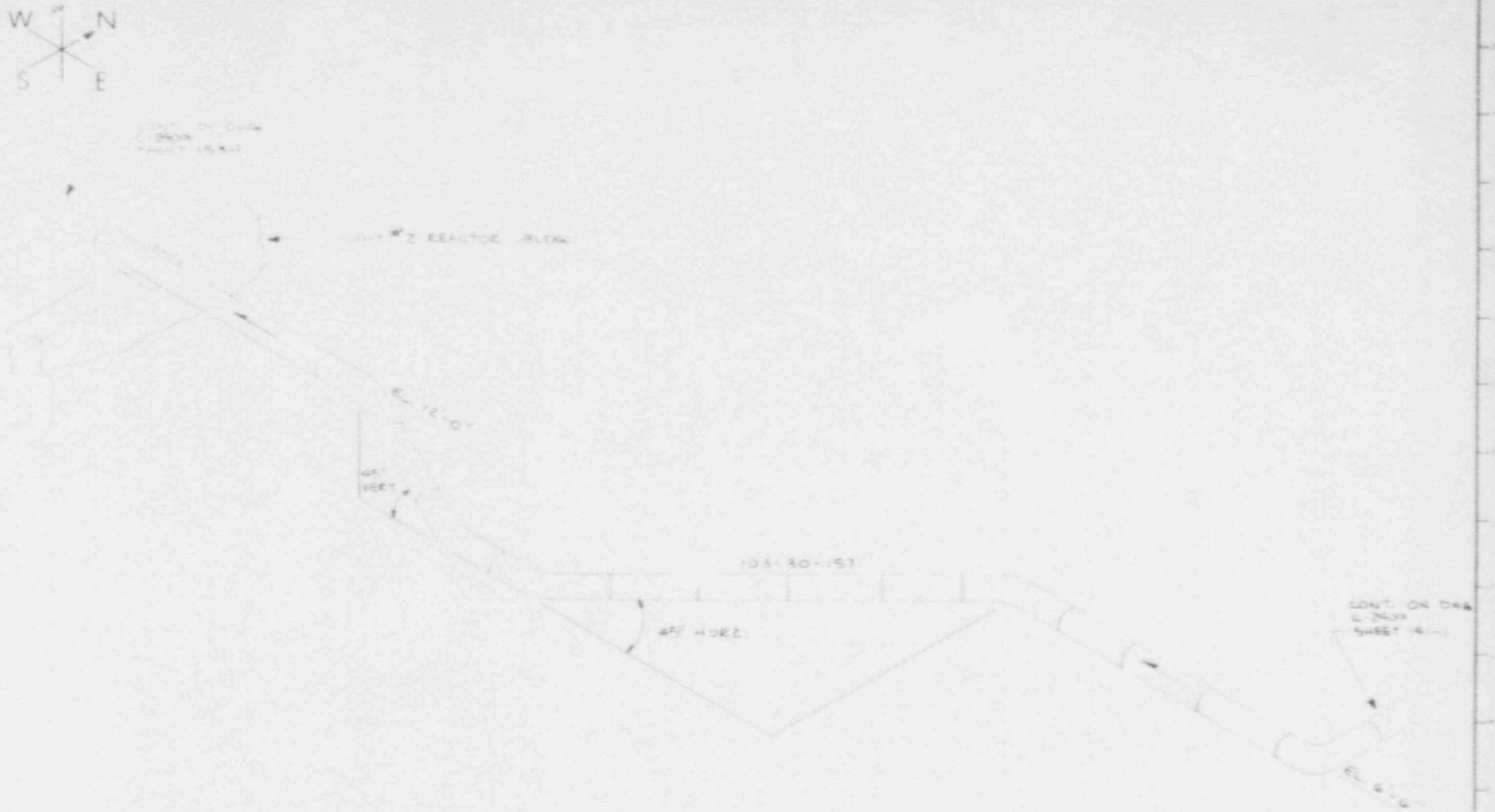
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

DRAWN 8-22-87 D.R. JOHNSON
CHK.
APPD.

INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM & SERVICE WATER SYSTEM FOR RHR PUMPS 2B & 2D HANGER LOCATIONS ASME CLASS 3

C-2409 SHEET 139-1 REV. 0

139



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

DRAWN 5-8-87
D.E. JOHNSON
CHK
ENGINEER
APPR

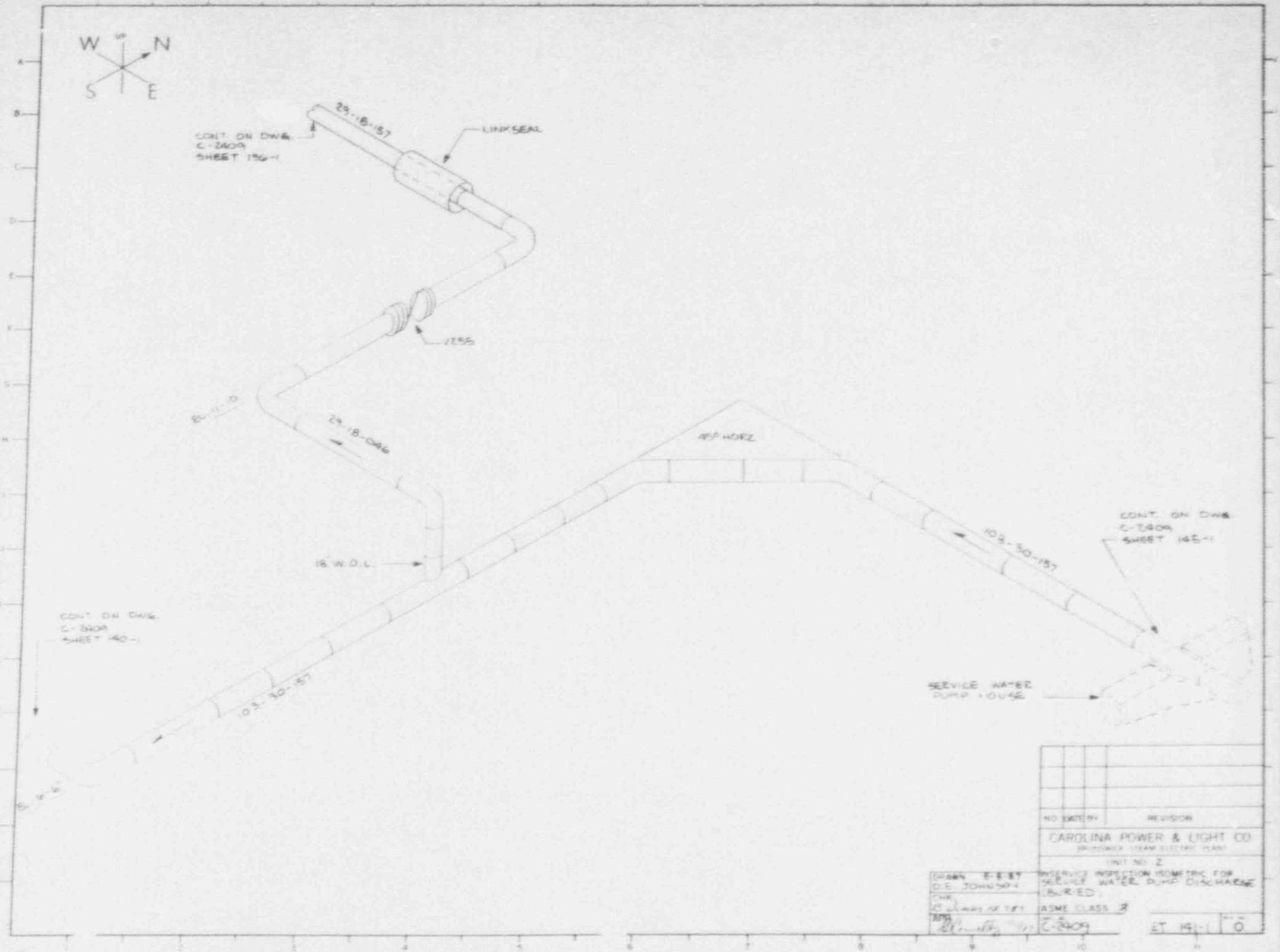
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER PUMP DISCHARGE (BURIED)

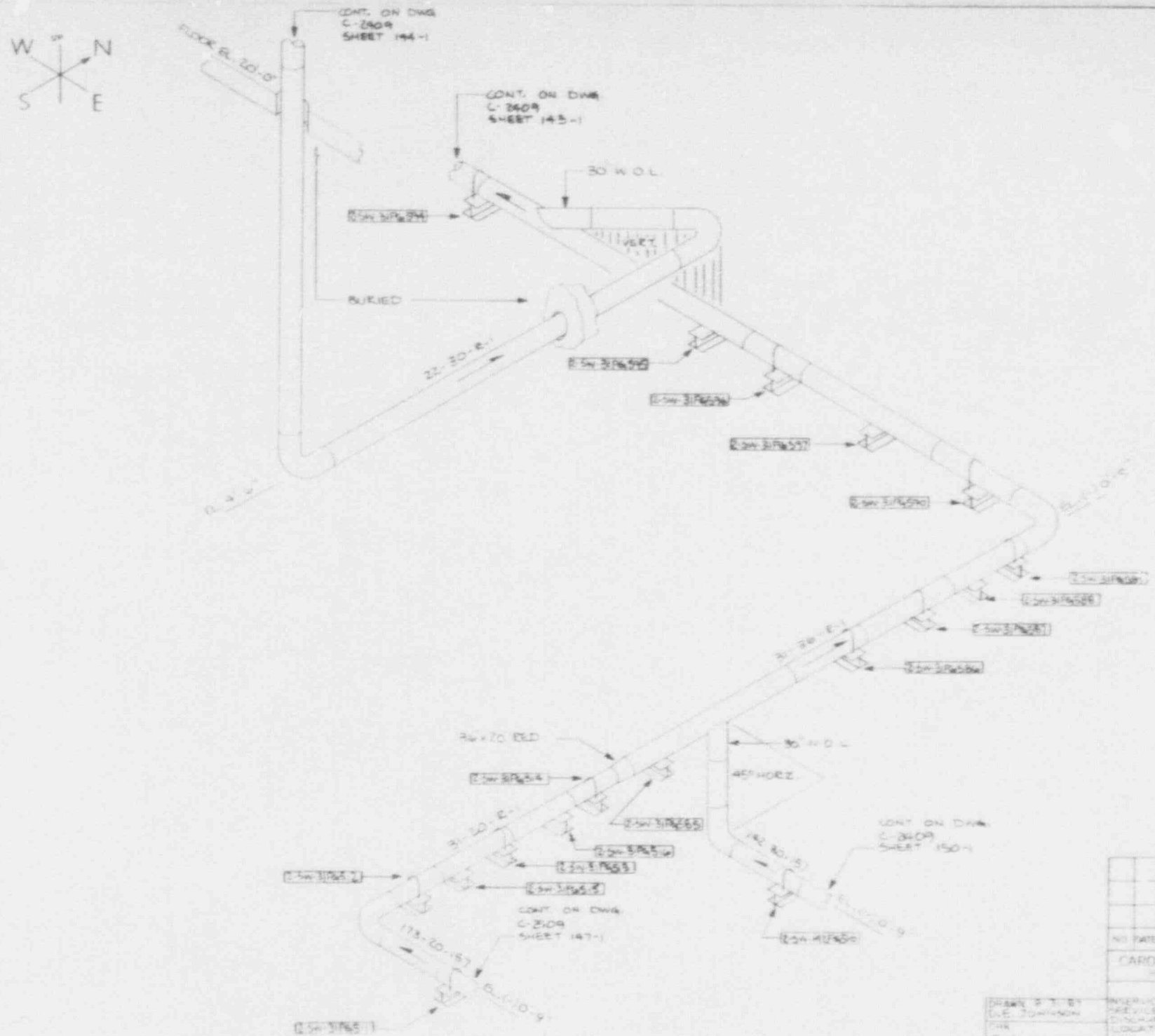
ASME CLASS 3

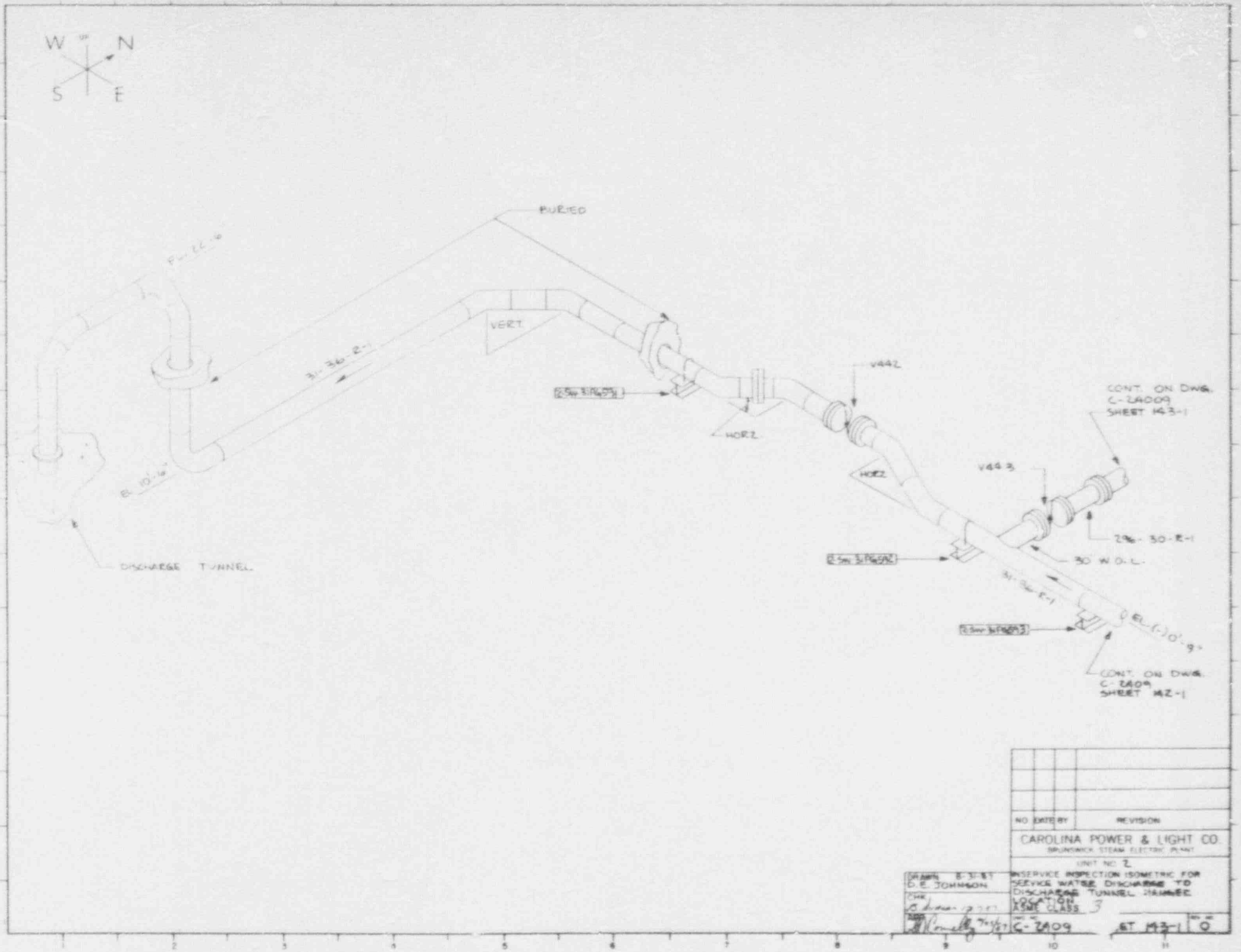
E-2409

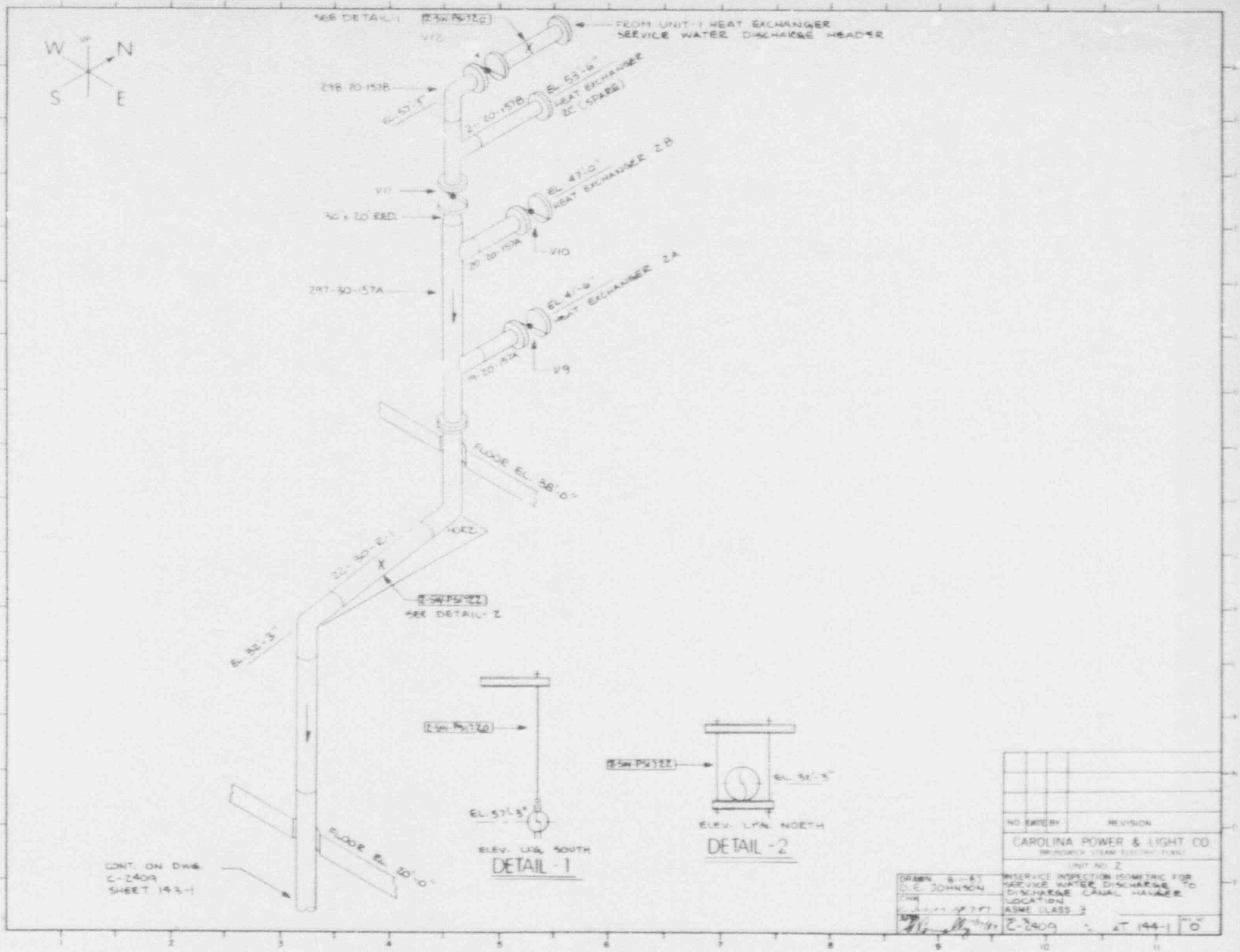
T 40-1

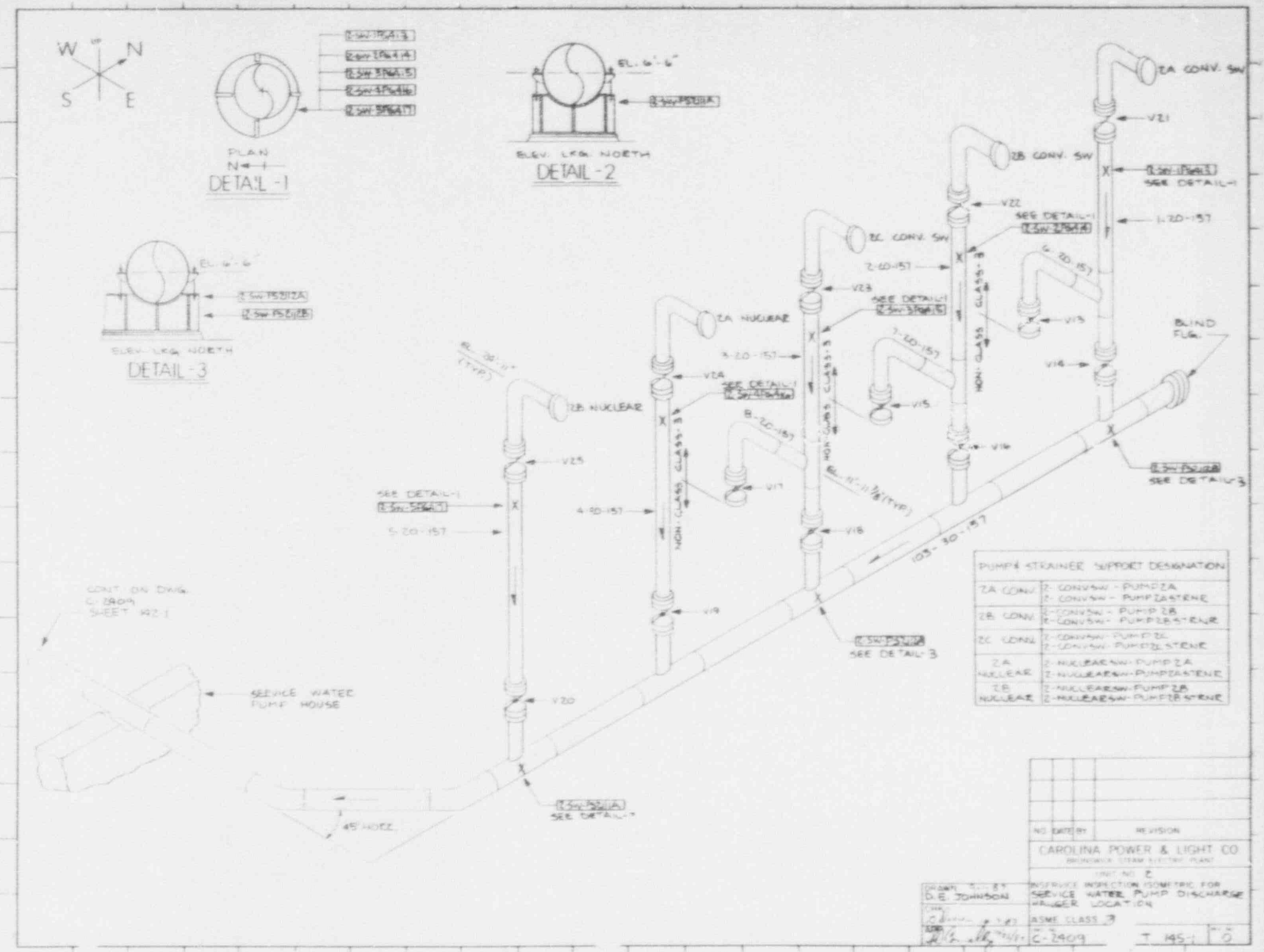
REV 0

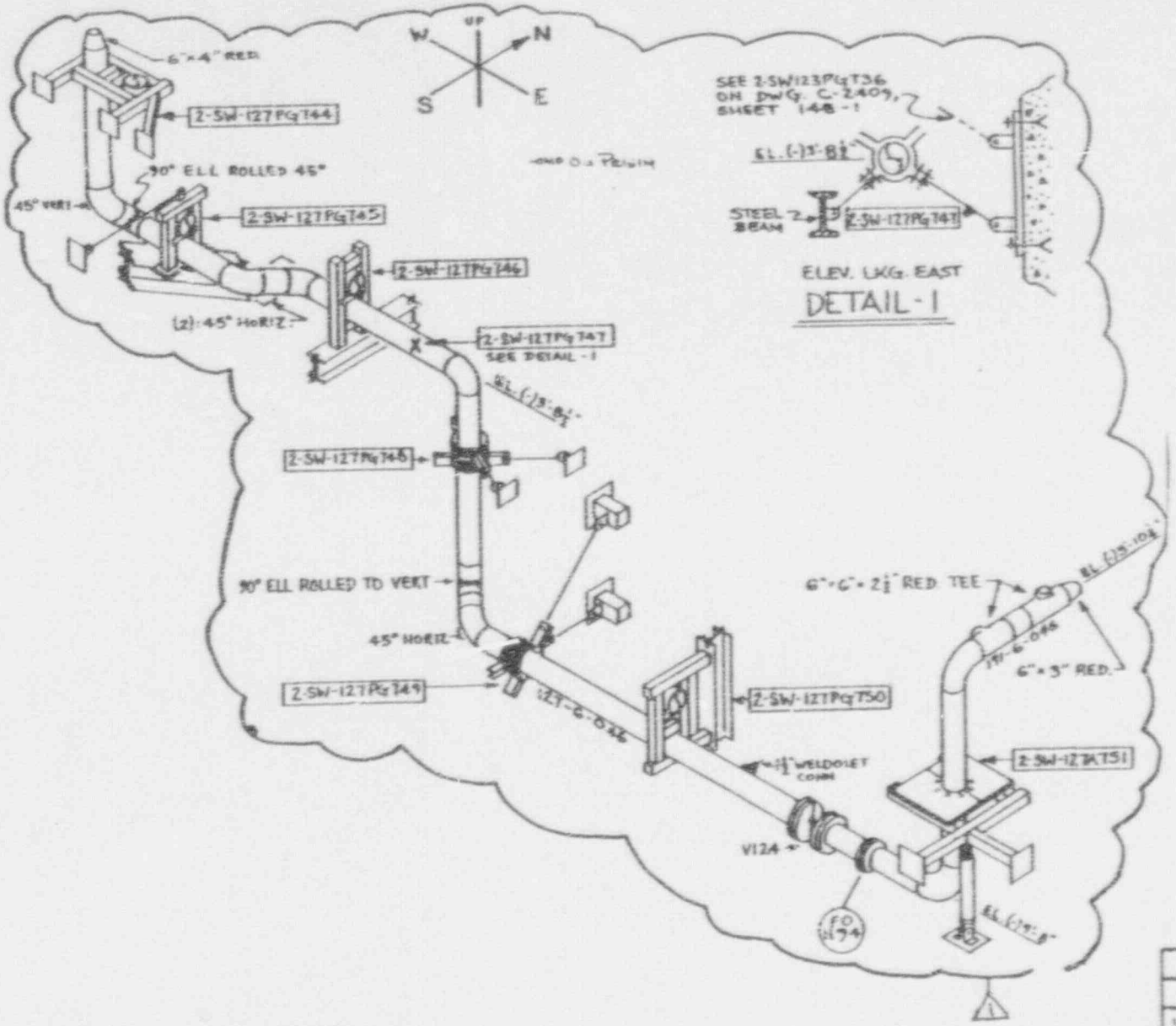

W
UP
N
S
E
CONT. ON DWG. C-2409 SHEET 156-1
29-18-157
LINKSEAL
V255
EL 11'-0"
29-18-046
48" HORZ
18" W.D.L.
CONT. ON DWG. C-2409 SHEET 145-1
103-30-157
CONT. ON DWG. C-2409 SHEET 140-1
03-30-157
SERVICE WATER PUMP HOUSE
EL 5'-6"
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 8-8-87
D.E. JOHNSON
CHK
APPD
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER PUMP DISCHARGE (BURIED)
ASME CLASS 3
C-2409
ET 145-1
0


W
N
S
E
UP
CONT. ON DWG
C-2409
SHEET 144-1
FLOOR EL. 201-0"
CONT. ON DWG
C-2409
SHEET 143-1
30" W.O.L.
VERT.
BURIED
22-30-E-1
30" W.O.L.
45° HORZ.
CONT. ON DWG
C-2409
SHEET 150-1
CONT. ON DWG
C-2409
SHEET 147-1
NO. DATE BY
REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
SERVICE WATER DISCHARGE TO
DISCHARGE CANAL HEADER
LOCATION
ASME CLASS
C-2409
C


W
N
S
E
BURIED
VERT.
HORZ.
V442
HORZ.
V443
CONT. ON DWG.
C-2A009
SHEET 143-1
30 W.O.L.
DISCHARGE TUNNEL
CONT. ON DWG.
C-2A09
SHEET 142-1
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
SERVICE WATER DISCHARGE TO
DISCHARGE TUNNEL INNER
LOCATION
ASME CLASS 3
C-2A09
ISOMETRIC 143-1
0


W
N
S
E
UP
SEE DETAIL-1
FROM UNIT-1 HEAT EXCHANGER SERVICE WATER DISCHARGE HEADER
V12
298-20-157B
EL. 57'-5"
EL. 53'-6" HEAT EXCHANGER 2C (SPARE)
EL. 47'-0" HEAT EXCHANGER 2B
V11
30 x 20" RED.
V10
297-30-157A
EL. 41'-6" HEAT EXCHANGER 2A
V9
FLOOR EL. 38'-0"
22'-30'-2"
SEE DETAIL-2
EL. 32'-3"
EL. 57'-3"
ELEV. LKG. SOUTH
DETAIL-1
EL. 32'-3"
ELEV. LKG. NORTH
DETAIL-2
FLOOR EL. 20'-0"
CONT. ON DWG C-2409 SHEET 143-1
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER DISCHARGE TO DISCHARGE CANAL HANGER LOCATION
ASME CLASS 3
DRAWN
D.E. JOHNSON
C-2409
ST 143-1
0


W
N
S
E
PLAN
DETAIL -1
EL. 6'-6"
ELEV. LKG. NORTH
DETAIL -2
ELEV. LKG. NORTH
DETAIL -3
2A CONV. SW
2B CONV. SW
2C CONV. SW
2A NUCLEAR
2B NUCLEAR
V21
V22
V23
V24
V25
V20
V19
V18
V17
V16
V15
V14
V13
SEE DETAIL-1
SEE DETAIL-3
1-20-157
2-20-157
3-20-157
4-20-157
5-20-157
6-20-157
7-20-157
8-20-157
NON-CLASS, CLASS-3
BLIND FLG.
103-30-157
CONT. ON DWG. C-2409 SHEET NO. 1
SERVICE WATER PUMP HOUSE
45° HORZ.
PUMP & STRAINER SUPPORT DESIGNATION
2A CONV
2-CONVSW - PUMP2A
2-CONVSW - PUMP2ASTRNR
2B CONV
2-CONVSW - PUMP2B
2-CONVSW - PUMP2BSTRNR
2C CONV
2-CONVSW - PUMP2C
2-CONVSW - PUMP2CSTRNR
2A NUCLEAR
2-NUCLEARSW - PUMP2A
2-NUCLEARSW - PUMP2ASTRNR
2B NUCLEAR
2-NUCLEARSW - PUMP2B
2-NUCLEARSW - PUMP2BSTRNR
NO
DATE
BY
REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER PUMP DISCHARGE HANGER LOCATION
ASME CLASS 3
C-2409
T 145-1
0



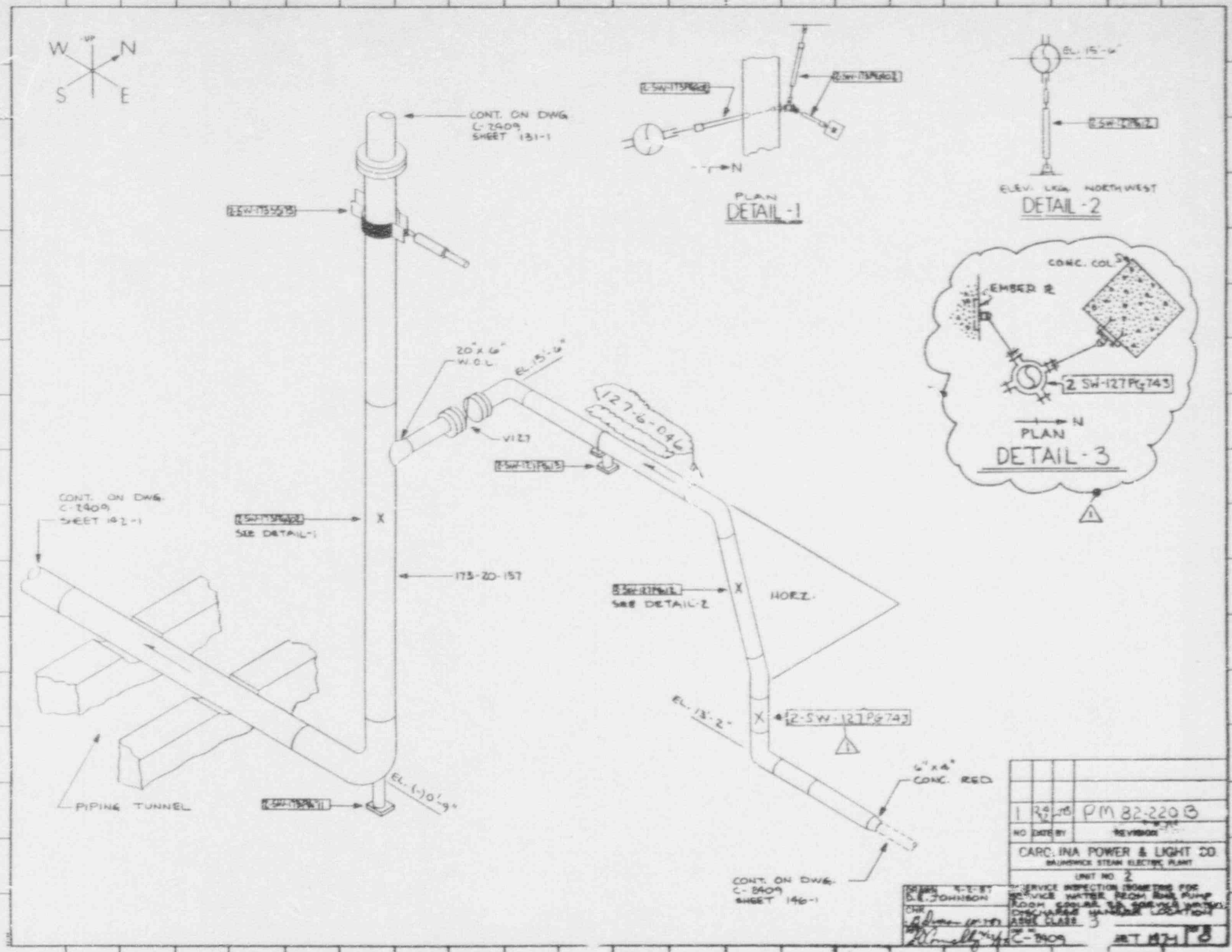
NO	DATE	BY	REVISION
1	5-4-82	JTC	DM 82-220B

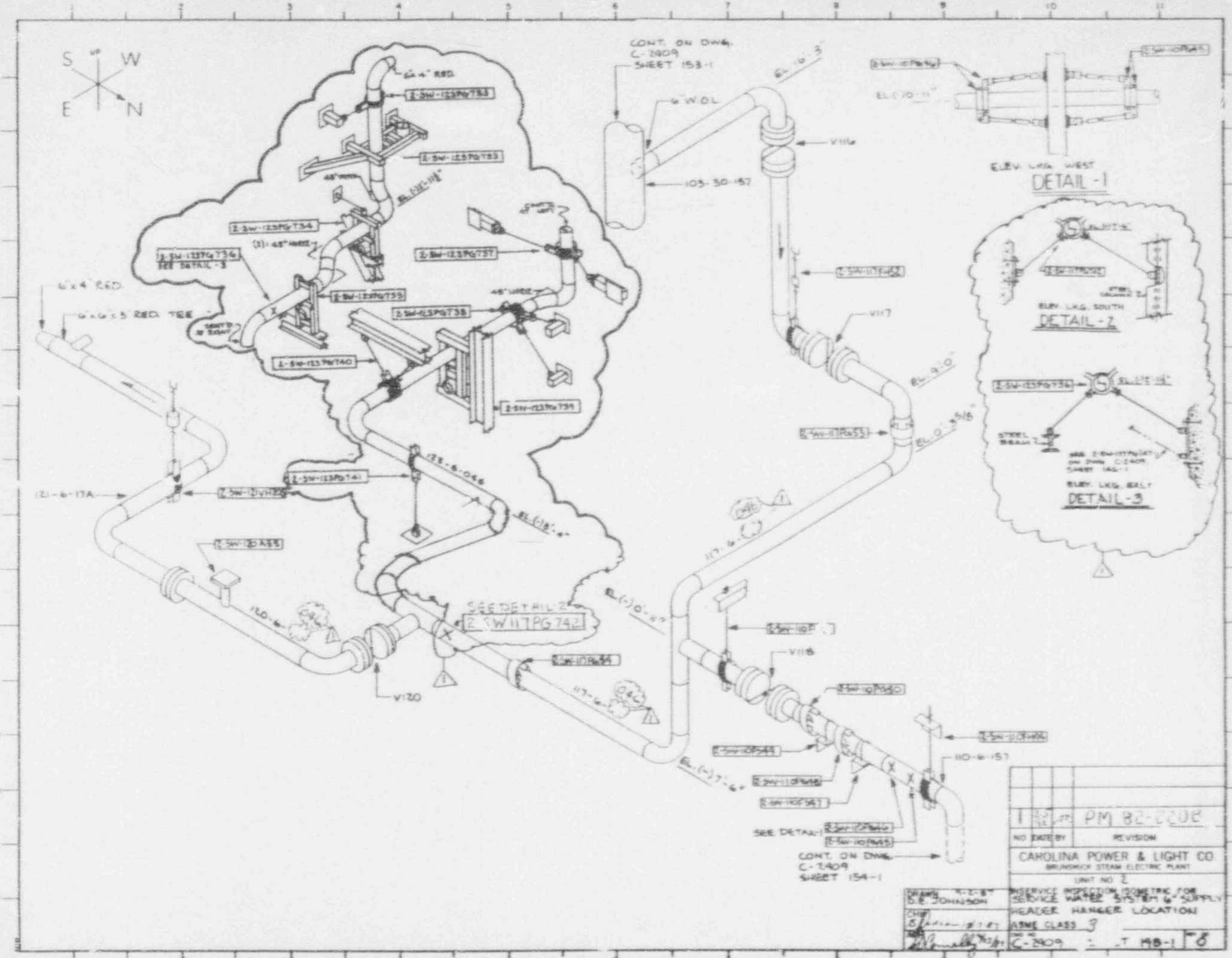
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO 2
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER FROM EHC PUMP ROOM COOLER 2B HANGER LOCATION
ASME CLASS 3

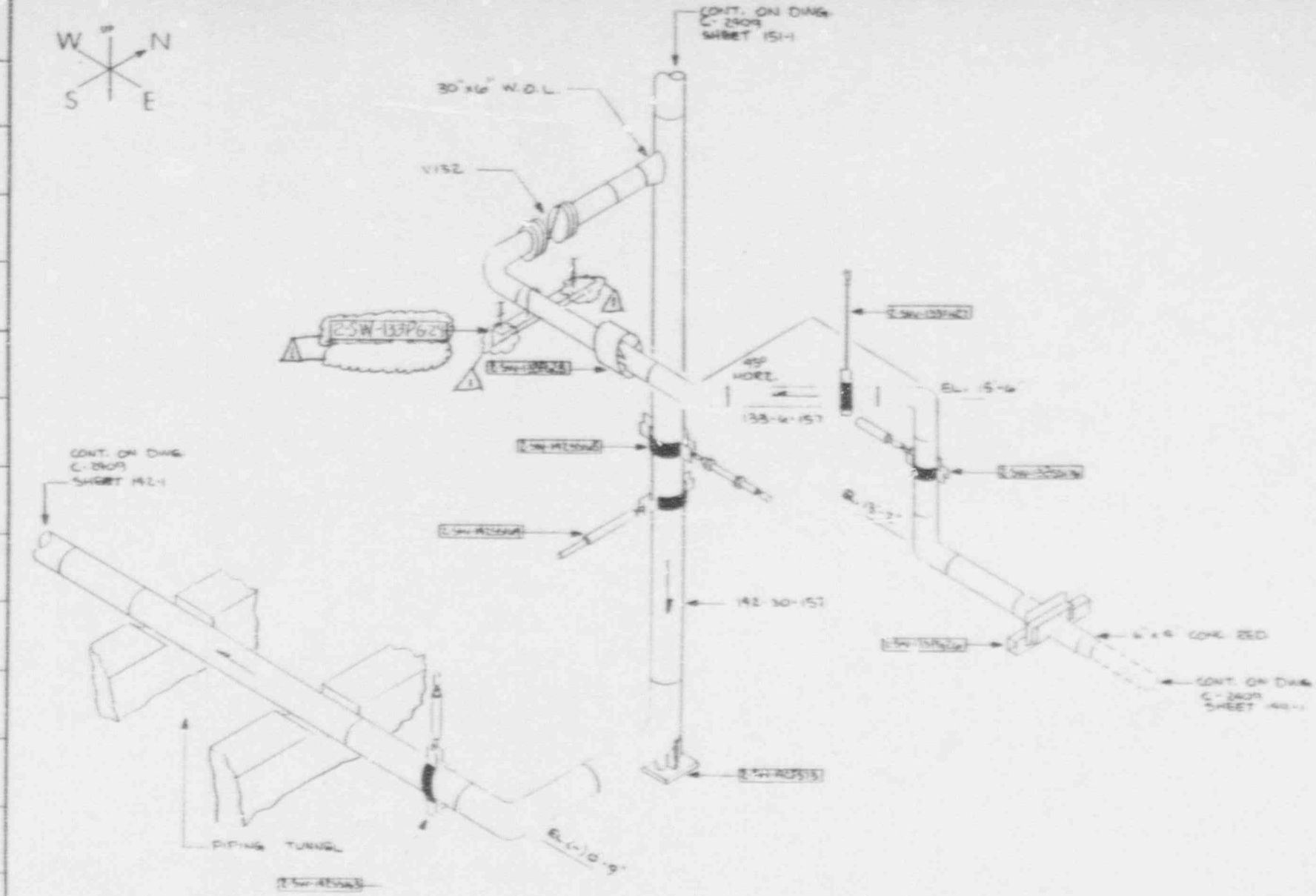
DRAWN: 8-11-81
D.E. JOHNSON
CHK
APP
DATE 8-7-81

C-2409 146-1 r 0


W
N
S
E
UP
CONT. ON DWG. C-2409 SHEET 131-1
2-SW-175-5613
20" x 6" W.O.L.
EL. 15'-6"
V127
127-6-046
2-SW-127-PG-13
CONT. ON DWG. C-2409 SHEET 142-1
2-SW-175-5632
SEE DETAIL-1
X
173-20-157
2-SW-127-PG-12
SEE DETAIL-2
HORZ.
EL. 13'-2"
2-SW-127-PG-743
1
6" x 4" CONC. RED
PIPING TUNNEL
2-SW-175-5611
EL. (-)0'-9"
CONT. ON DWG. C-2409 SHEET 146-1
2-SW-175-5662
2-SW-175-5663
N
PLAN
DETAIL-1
EL. 15'-6"
2-SW-127-PG-2
ELEV. LOOK NORTHWEST
DETAIL-2
CONC. COL.
EMBED 2
2 SW-127 PG-743
N
PLAN
DETAIL-3
1
1 3-9-78 PM 82-2203
NO DATE BY REVISIONS
CARO. INA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2
SERVICE INSPECTION DRAWING FOR SERVICE WATER RECIR. RAW PUMP ROOM SUPPLY TO SERVICE WATER DISCHARGE HEADER LOCATION
ASME CLASS 3
DESIGN 4-2-87 D.C. JOHNSON
DWN
C-2409
SHT 137-1
8


S
W
E
N
CONT. ON DWG. C-2409 SHEET 153-1
6" W.O.L.
105-30-157
V116
V117
V118
V120
6"x4" RED.
6"x6"x3 RED. TEE
121-6-17A
SEE DETAIL 2
2 SW117PG742
CONT. ON DWG. C-2409 SHEET 154-1
110-6-157
SEE DETAIL-1
ELEV. LKG. WEST
DETAIL-1
ELEV. LKG. SOUTH
DETAIL-2
ELEV. LKG. EAST
DETAIL-3
PM 82-020E
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER SYSTEM & SUPPLY HEADER HANGER LOCATION
ASME CLASS 3
D.E. JOHNSON
C-2409
MB-1
8


W
N
S
E
CONT. ON DWG.
C-2409
SHEET 150-11
SEE DETAIL-2
DETAIL - 1
DETAIL - 2
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL WATER FROM RHR PUMP
ROOM COOLER TX
HANGER LOCATION
ASME CLASS 3
C-2409



1			FM 82-220A
NO.	DATE		REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

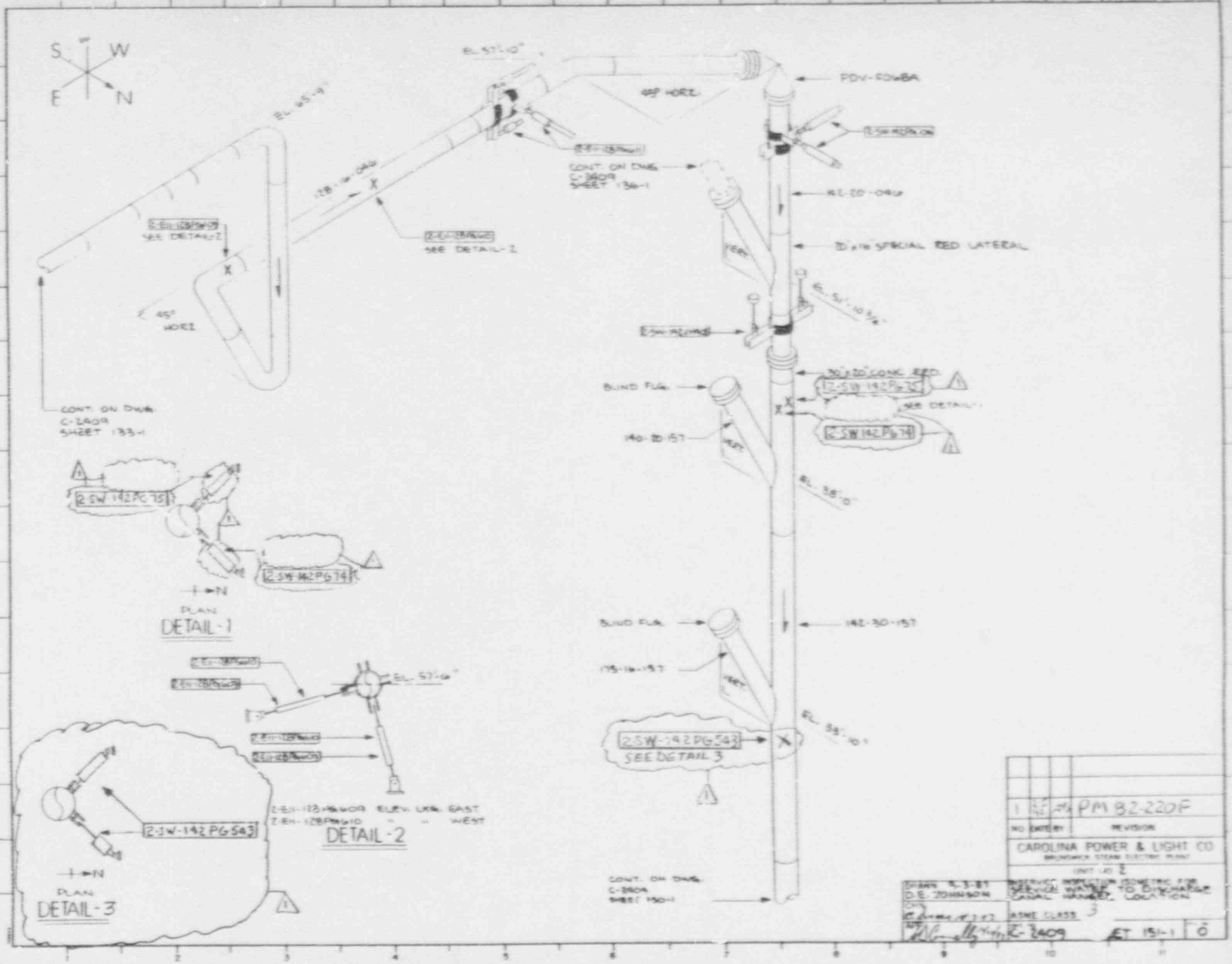
UNIT NO. 2

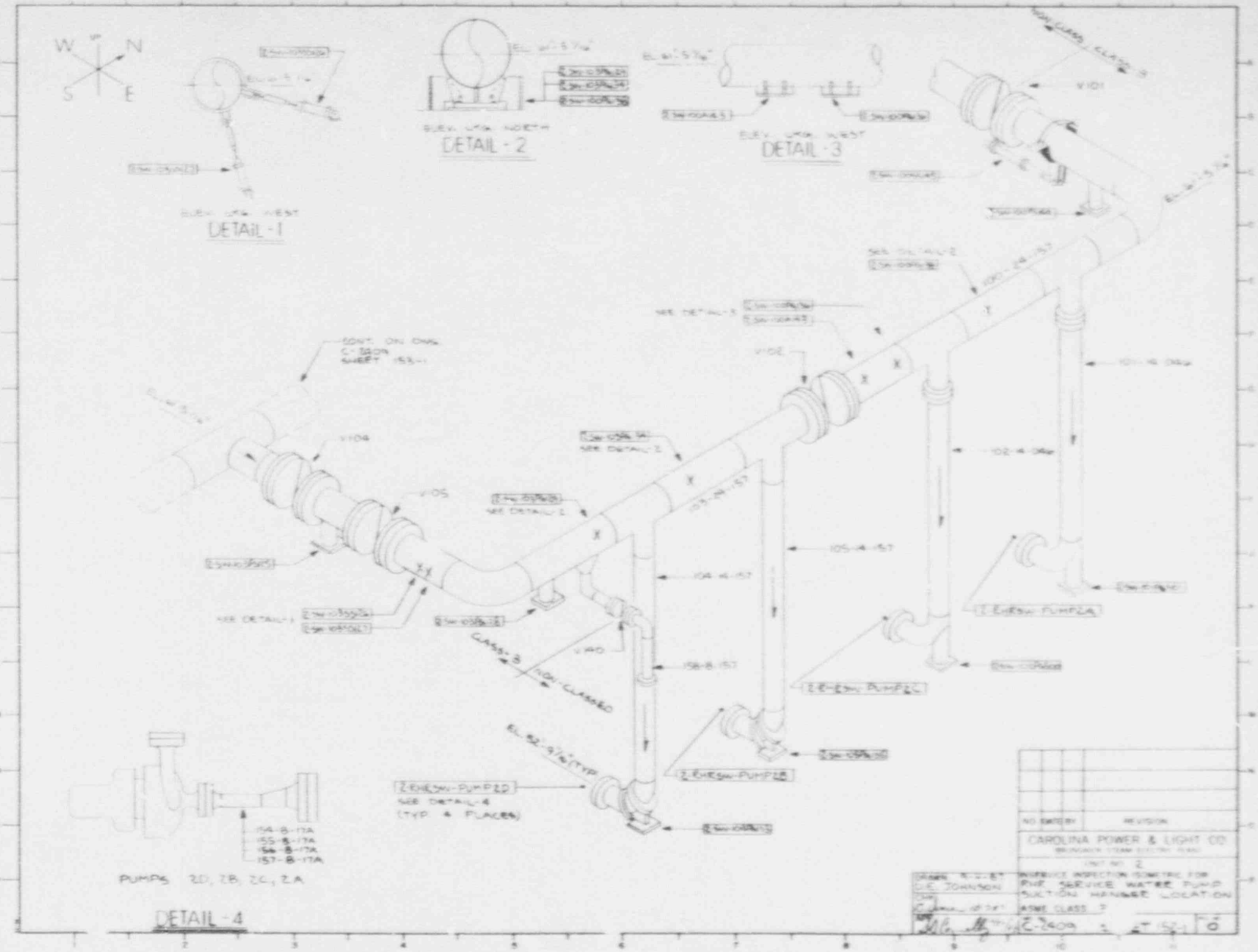
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER FROM CORE SPRAY ROOM COOLER TO SERVICE WATER CONN. HEADER. HANGER LOCATION ASME CLASS 3

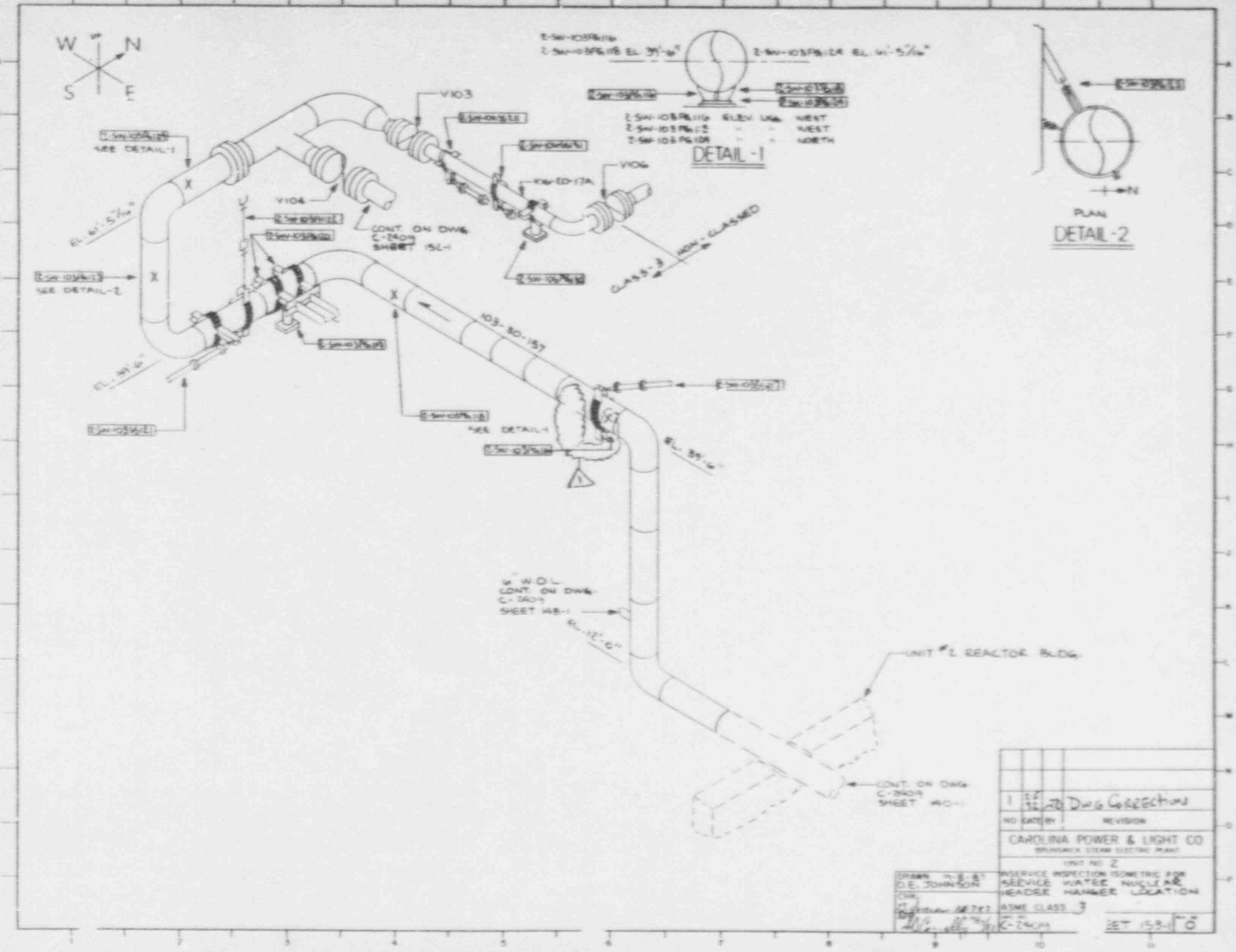
DRAWN R. S. B.
CHK. JOHNSON
APR. D. [illegible]
DATE [illegible]

E-2409

ET 150-1 | 0


S
W
E
N
EL. 57'-10"
PDV-F016BA
45° HORZ.
EL. 65'-9"
2-SW-142PA-09
CONT. ON DWG. C-2409 SHEET 136-1
128-16-CA6
2-EI-128PW10
SEE DETAIL-2
CONT. ON DWG. C-2409 SHEET 133-1
45° HORZ.
142-20-CA6
20"x16" SPECIAL RED LATERAL
EL. 51'-10 1/2"
2-SW-142PA-08
30"x20" CONC. RED.
2-SW-142PG-74
SEE DETAIL-1
BLIND FLG.
140-20-157
EL. 38'-0"
2-SW-142PA-75
2-SW-142PG-74
PLAN
DETAIL-1
BLIND FLG.
142-30-157
175-16-157
EL. 57'-6"
2-SW-142PG-543
SEE DETAIL 3
EL. 38'-10"
2-EI-128PW09
2-EI-128PW10
2-SW-142PG-543
PLAN
DETAIL-3
2-EI-128PW09 ELEV. UNK. EAST
2-EI-128PW10 " " WEST
DETAIL-2
CONT. ON DWG. C-2409 SHEET 150-1
PM 82-220F
NO. ENTER BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 5-3-82 D.E. JOHNSON
SERVICE WATER TO DISCHARGE CANAL HANGER LOCATION
ASME CLASS 3
C-2409
ET 151-1
0


W
N
S
E
DETAIL - 1
DETAIL - 2
DETAIL - 3
DETAIL - 4
V101
V102
V104
V105
V110
SEE DETAIL - 1
SEE DETAIL - 2
SEE DETAIL - 3
CLASS - B
NON - CLASS B
2 EHESW - PUMP 2A
2 EHESW - PUMP 2B
2 EHESW - PUMP 2C
2 EHESW - PUMP 2D
SEE DETAIL - 4
(TYP 4 PLACES)
PUMPS 2D, 2B, 2C, 2A
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
PWR SERVICE WATER PUMP
SUCTION HANGER LOCATION
ASME CLASS 3
REVISION
0


W
N
S
E
V103
V104
V106
SEE DETAIL-1
SEE DETAIL-2
EL. 61'-5 7/16"
EL. 39'-6"
CONT. ON DWG C-2409 SHEET 152-1
NON-CLASSED
CLASS-3
103-80-157
SEE DETAIL-1
EL. 39'-6"
6" W.D.L. CONT. ON DWG. C-2409 SHEET 148-1
EL. 12'-6"
UNIT #2 REACTOR BLDG.
CONT. ON DWG C-2409 SHEET 140-1
DETAIL-1
ELEV. LOC. WEST
WEST
NORTH
PLAN
DETAIL-2
N
1 2-8-82 TD Dwg Correction
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2
DRAWN 10-8-81 D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER NUCLEAR HEADER HANGER LOCATION
ASME CLASS 3
C-2409
SHEET 153-1
0

SECTION 11.0

NIS-2 FORMS

CAROLINA POWER AND LIGHT COMPANY, POB 1551, RALEIGH, NC 27602
BRUNSWICK STEAM ELECTRIC PLANT, POB 10429, SOUTHPORT, NC 28461
UNIT 2, COMMERCIAL SERVICE DATE 11/03/75, NB#3902(RPV)

11.0 NIS-2 FORMS LISTING

		NO. OF SHEETS
*	Plant Modification 88-018 (Supports)	4
	Plant Modification 89-016 (Valve/Piping)	1
	Plant Modification 89-106 (Supports)	8
	Plant Modification 90-016 (Valve)	1
	Plant Modification 90-017 (Valve/Piping)	2
	Plant Modification 91-043 (RPV Internal Piping)	1
	Plant Modification 91-045 (Piping/Supports)	2
	Plant Modification 90-064 (Valve/Piping)	3
	Plant Modification 90-071 (Valve)	1
*	Special Procedure 2SP-89-041 (Piping)	1
	Work Request/Job Order 87-BLEP1 (Piping)	1
	Work Request/Job Order 89-AEYP1 (Flow Orifice)	1
**	Work Request/Job Order 89-AQEP1 (Valve)	1
**	Work Request/Job Order 89-AWIW1 (Support)	1
**	Work Request/Job Order 89-BAMY1 (Support)	1
**	Work Request/Job Order 89-BAZW1 (Support)	1
	Work Request/Job Order 90-AFUG1 (Valve)	1
	Work Request/Job Order 90-APQA1 (Valve)	1
	Work Request/Job Order 90-ATWC1 (Pump)	1
	Work Request/Job Order 91-ACCM1 (Valve)	1
	Work Request/Job Order 91-ACQI1 (Pipe)	1
	Work Request/Job Order 91-AFCJ1 (Support)	1
	Work Request/Job Order 91-AFCK1 (Support)	1
	Work Request/Job Order 91-AHPD1 (Support)	1
	Work Request/Job Order 91-AHYY1 (Support)	1
	Work Request/Job Order 91-AIDB1 (Bolting)	1
	Work Request/Job Order 91-AKAB1 (Valve)	and
	Work Request/Job Order 91-AKAB3 (Valve)	1
	Work Request/Job Order 91-AKJX1 (Support)	1
	Work Request/Job Order 91-ALHM1 (Support)	2
	Work Request/Job Order 91-ALHP1 (Support)	3
	Work Request/Job Order 91-ALHQ1 (Support)	1
	Work Request/Job Order 91-ALHY1 (Support)	1
	Work Request/Job Order 91-ALHZ1 (Support)	1
	Work Request/Job Order 91-ALIA1 (Support)	1
	Work Request/Job Order 91-ALID1 (Support)	2
	Work Request/Job Order 91-ALIF1 (Support)	2
	Work Request/Job Order 91-ALIH1 (Support)	1
	Work Request/Job Order 91-ALII1 (Support)	1
	Work Request/Job Order 91-ALIK1 (Support)	3
	Work Request/Job Order 91-AQSE1 (Valve)	2

11.0 NIS-2 FORMS LISTING (cont)

		NO. OF SHEETS
Work Request/Job Order 91-AQSF1	(Valve)	1
Work Request/Job Order 91-ARBX1	(Support)	2
Work Request/Job Order 91-ARLU1	(Valve)	1
Work Request/Job Order 91-ARUI1	(Heater)	1
Work Request/Job Order 91-ASWH1	(Piping)	1
Work Request/Job Order 91-AUFG1	(Valve)	1
Work Request/Job Order 91-AUFH1	(Valve)	1
Work Request/Job Order 91REH425	(Valve)	1
Work Request/Job Order 91RFN381	(Pump)	1
Work Request/Job Order 91VEI215	(Valve)	1
Work Request/Job Order 91VEJ425	(Valve)	1

* Examinations performed prior to 5/16/90

** NIS-2's previously submitted in the 4/29/91 Unit 1 NIS-1 package. Copies have been included in this NIS-1 submittal.

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SUPPORTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 12, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — BSEP PLANT MODIFICATION BB-018 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System E21, CORE SPRAY

5. (a) Applicable Construction Code AWS D1.1 19 83 Edition, N/A Addenda, N/A Code Case
ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E21-2PG3	CP&L	N/A	N/A	BP-20803	75	REPAIRED	NO
2E21-PS-6152	CP&L	N/A	N/A	L-02260-6152	75	REPAIRED	NO
2E21-PS-6153	CP&L	N/A	N/A	L-02260-6153	75	REPAIRED	NO

7. Description of Work ENHANCEMENT OF EXISTING SUPPORTS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks TEST: VISUAL INSPECTION PER BSEP SPEC 248-107.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Raines, Project Manager Date February 12, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/92 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Young Commissions NC 99D
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/12 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SUPPORTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 12, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — BSEP PLANT MODIFICATION 88-018 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System B21, NUCLEAR BOILER

5. (a) Applicable Construction Code AWS D1.1 19 83 Edition, N/A Addenda, N/A Code Case
ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-PS-3551	CP&L	N/A	N/A	L-02260-3551	75	REPAIRED	NO
2B21-PS-3552	CP&L	N/A	N/A	L-02260-3552	75	REPAIRED	NO
2B21-47VH160	CP&L	N/A	N/A	BP-20160	75	REPAIRED	NO

7. Description of Work ENHANCEMENT OF EXISTING SUPPORTS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks TEST: VISUAL INSPECTION PER BSEP SPEC 24B-107.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Rainey, Project Manager Date February 12, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/15/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gladys Lessing Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/12 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board: N/A
7. Component: PIPING

FORM N1S-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER AND LIGHT COMPANY (Name) — Date February 12, 1992

P.O. BOX 1551, RALEIGH, NC 27602 (Address) — Sheet 1 of 1

2. Plant BRUNSWICK STEAM ELECTRIC PLANT (Name) — Unit TWO

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — BSEP PLANT MODIFICATION B8-018 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System E11, RHR AND E41, HPCI

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 THRU WINTER 1981 ADDENDA

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-89-4-300	CP&L	N/A	N/A	2-FP-60024	75	REPAIRED	NO
2E11-91-4-300	CP&L	N/A	N/A	2-FP-60024	75	REPAIRED	NO
2E11-4-10-602	CP&L	N/A	N/A	2-FP-60610	75	REPAIRED	NO

7. Description of Work ADDED PIPE LUGS AND PIPE TRUNNIONS TO EXISTING PIPING

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ PSIG Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TEST: NDE PERFORMED PER BSEP SPEC 248-117.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Raines, Project Manager Date February 12, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/15/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NC 990
National Board, State, Province, and Endorsements

Date 2/12 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board: N/A
7. Component: SUPPORTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER AND LIGHT COMPANY (Name) — Date February 12, 1992
P.O. BOX 1551, RALEIGH, NC 27602 (Address) — Sheet 1 of 1

2. Plant BRUNSWICK STEAM ELECTRIC PLANT (Name) — Unit TWO
P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — BSEP PLANT MODIFICATION 88-018 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A
P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — Authorization No. N/A
Expiration Date N/A

4. Identification of System PIPE PENETRATION 2-X-14

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 THRU WINTER 1981 ADDENDA

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-X-14	CP&L	N/A	N/A	D-FP-06003	75	REPAIRED	NO

7. Description of Work REMOVED PIPE CLAMP FROM LINE 2G31-1-6-603 LOCATED IN PENETRATION 2-X-14.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TEST: INSPECTION PERFORMED PER BSEP SPEC 248-117.
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Raines, Project Manager Date February 12, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/17/90 to 1/3/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Agency Commissions NC990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/13 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE AND PIPING AND SUPPORT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 5, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — BNP PLANT MOD 89-016 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by MAINTENANCE SUPPORT UNIT (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System HIGH PRESSURE COOLANT INJECTION SYSTEM (E41) - CLASS 1 AND 2

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	ANCHOR DARLING	E-8317-2-1	N/A	2-E41-F002	90	REPLACEMENT	NO
VALVE	ANCHOR DARLING	E-8317-3-1	N/A	2-E41-F003	90	REPLACEMENT	NO
PIPE	TIOGA PIPE	HT# 30417	N/A	2-E41-4-10-602	91	REPLACEMENT	NO
PIPE	TIOGA PIPE	HT# 30417	N/A	2-E41-4-10-602	91	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF THE 2-E41-F002 AND 2-E41-F003 VALVES

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure SEE 9 psi Test Temp. SEE 9 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks TEST PRESSURES WERE AT 1095 PSI AND 1398 PSI AND 200 DEGREES F AND AMBIENT TEST TEMPERATURES RESPECTIVELY.
Applicable Manufacturer's Data Reports to be attached
NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-GB. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED.

DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS 12-11-91.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Billy R Page, Mod Eng Date 2-5, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/7/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NC990
National Board, State, Province, and Endorsements

Date 2/10 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board: N/A
7. Component: SUPPORTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER AND LIGHT COMPANY (Name) — Date 2-11-92

P.O. BOX 1551, RALEIGH, NC 27602 (Address) — Sheet 1 of 3

2. Plant BRUNSWICK STEAM ELECTRIC PLANT (Name) — Unit TWO

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — BSEP PLANT MODIFICATION 89-106 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — Expiration Date N/A

4. Identification of System E41, PSN, B21, SW & E21

5. (a) Applicable Construction Code AWS D1.1 19 88 Edition, N/A Addenda, N/A Code Case
ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 THRU WINTER 1981 ADDENDA

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E41-2PG2	CP&L	N/A	N/A	BP-21002	75	REPAIRED	NO
2E41-60PG7	CP&L	N/A	N/A	BP-21007	75	REPAIRED	NO
2E41-60FH8	CP&L	N/A	N/A	BP-21008	75	REPLACEMENT	NO
2E41-60VH10	CP&L	N/A	N/A	BP-21010	75	REPAIRED	NO
2E41-60PG11	CP&L	N/A	N/A	BP-21011	75	REPAIRED	NO

7. Description of Work ENHANCEMENT OF EXISTING SUPPORTS AND/OR REMOVAL

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TEST: VT3/VT4 PER BSEP VOLUME X, PT 19.6.0 AND PT 91.0.52
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR & REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Raines, Project Mgr. RHC 2/14/92 Date February 11, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gracie Young
Inspector's Signature

Commissions NC 990
National Board, State, Province, and Endorsements

Date 2/13 1992

(12/82)

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Supports

Sheet 2 of 3
Unit 2
BSEP Plant Mod. B9-106
Repair Organization PO No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2E41-20PG14	CP&L	N/A	N/A	BP-21014	75	REPAIRED	NO
2E41-20FH16	CP&L	N/A	N/A	BP-21016	75	REPLACEMENT	NO
2E41-60PG55	CP&L	N/A	N/A	BP-21055	75	REPLACEMENT	NO
2E41-60FH56	CP&L	N/A	N/A	BP-21056	75	REPAIRED	NO
2E41-60PG57	CP&L	N/A	N/A	BP-21057	75	REPLACEMENT	NO
2E41-60FH60	CP&L	N/A	N/A	BP-21060	75	REPAIRED	NO
2E41-61PG66	CP&L	N/A	N/A	BP-21066	75	REPAIRED	NO
2E41-60SS101	CP&L	N/A	N/A	BP-21101	75	REPLACEMENT	NO
2E41-2SS104	CP&L	N/A	N/A	BP-21104	75	REMOVAL	NO
2E41-2SS105	CP&L	N/A	N/A	BP-21105	75	REMOVAL	NO
2E41-2SS106	CP&L	N/A	N/A	BP-21106	75	REMOVAL	NO
2E21-6PG11	CP&L	N/A	N/A	BP-20811	75	REPAIRED	NO
2E21-2PG24	CP&L	N/A	N/A	BP-20824	75	REPAIRED	NO
2E21-2PG26	CP&L	N/A	N/A	BP-20826	75	REPAIRED	NO
2E21-2FH28	CP&L	N/A	N/A	BP-20828	75	REPLACEMENT	NO
2E21-22VH77	CP&L	N/A	N/A	BP-20877	75	REPAIRED	NO
2E41-59PG25	CP&L	N/A	N/A	BP-21025	75	REMOVAL	NO
2E41-19FH22	CP&L	N/A	N/A	BP-21022	75	REMOVAL	NO
2E21-2PG29	CP&L	N/A	N/A	BP-20829	75	REPAIRED	NO
2PSN-B3CH45	CP&L	N/A	N/A	BP-20045	75	REPAIRED	NO
2PSN-B5SS50	CP&L	N/A	N/A	BP-20050	75	REMOVAL	NO
2PSN-C3SS62	CP&L	N/A	N/A	BP-20062	75	REPLACEMENT	NO
2PSN-D3SS73	CP&L	N/A	N/A	BP-20073	75	REPAIRED	NO
2PSN-D5SS76	CP&L	N/A	N/A	BP-20076	75	REPLACEMENT	NO
2B21-3CH7	CP&L	N/A	N/A	BP-20007	75	REPAIRED	NO
2B21-44PG153	CP&L	N/A	N/A	BP-20153	75	REPAIRED	NO
2B21-19SS190	CP&L	N/A	N/A	BP-20190	75	REPAIRED	NO
2B21-19SS193	CP&L	N/A	N/A	BP-20193	75	REPAIRED	NO
2B21-59PG323	CP&L	N/A	N/A	BP-25723	75	REPAIRED	NO
2B21-59SS326	CP&L	N/A	N/A	BP-25726	75	REPAIRED	NO

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Supports

Sheet 3 of 3
Unit 2
BSEP Plant Mod. 89-106
Repair Organization PO No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2B21-59SS329	CP&	N/A	N/A	BP-25729	75	REPAIRED	NO
2SW-103SS117	CP&L	N/A	N/A	BP-21917	75	REPLACEMENT	NO
2SW-103FH122	CP&L	N/A	N/A	BP-21922	75	REPLACEMENT	NO
2SW-103PG123	CP&L	N/A	N/A	BP-21923	75	REPLACEMENT	NO
2SW-106SS131	CP&L	N/A	N/A	BP-21931	75	REPLACEMENT	NO
2SW-100PG148	CP&L	N/A	N/A	BP-21948	75	REPAIRED	NO
2SW-106SS211	CP&L	N/A	N/A	BP-25811	75	REPLACEMENT	NO
2SW-PS-1722	CP&L	N/A	N/A	L-02260-1722	75	REPAIRED	NO
2B21-PS-3563	CP&L	N/A	N/A	L-02260-3563A	75	REPAIRED	NO
2B21-PS-3722A	CP&L	N/A	N/A	L-02260-3722	75	REMOVAL	NO
2B21-PS-3722B	CP&L	N/A	N/A	L-02260-3722	75	REMOVAL	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board: N/A
7. Component: SUPPORTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER AND LIGHT COMPANY (Name) — Date 2-11-92

P.O. BOX 1551, RALEIGH, NC 27602 (Address) — Sheet 1 of 2

2. Plant BRUNSWICK STEAM ELECTRIC PLANT (Name) — Unit TWO

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — BSEP PLANT MODIFICATION 89-106 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — Expiration Date N/A

4. Identification of System G41, SGT, CAC, E51

5. (a) Applicable Construction Code AWS D1.1 19 88 Edition, N/A Addenda, N/A Code Case
ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 THRU WINTER 1981 ADDENDA

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2G41-1FH2	CP&L	N/A	N/A	BP-21602	75	REPLACEMENT	NO
2G41-1SS22	CP&L	N/A	N/A	BP-21622	75	REPLACEMENT	NO
2G41-1SS24	CP&L	N/A	N/A	BP-21624	75	REPLACEMENT	NO
2G41-1SS30	CP&L	N/A	N/A	BP-21630	75	REPLACEMENT	NO
2SGT-1VH6	CP&L	N/A	N/A	BP-22806	75	REPAIRED	NO

7. Description of Work ENHANCEMENT OF EXISTING SUPPORTS AND/OR REMOVAL

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TEST: VT3/VT4 PER BSEP VOLUME X, PT 19.6.0 AND PT 91.0.52
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR & REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Raines, Project Mgr. RMC 2/11/92 Date February 11, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/7/90 to 1/13/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gracy Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/13 19 92

(12/82)

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Supports

Sheet 2 of 2
Unit 2
BSEP Plant Mod. 89-106
Repair Organization PO No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2SGT-9VH12	CP&L	N/A	N/A	BP-22812	75	REPAIRED	NO
2SGT-1FH11	CP&L	N/A	N/A	BP-22811	75	REPLACEMENT	NO
2SGT-5PG39	CP&L	N/A	N/A	BP-22839	75	REPAIRED	NO
2SGT-4PG41	CP&L	N/A	N/A	BP-22841	75	REPAIRED	NO
2CAC-4PG2	CP&L	N/A	N/A	BP-22002	75	REPLACEMENT	NO
2CAC-4PG3	CP&L	N/A	N/A	BP-22003	75	REPAIRED	NO
2CAC-4PG5	CP&L	N/A	N/A	BP-22005	75	REPLACEMENT	NO
2CAC-4PG6	CP&L	N/A	N/A	BP-22006	75	REPAIRED	NO
2CAC-42VH19	CP&L	N/A	N/A	BP-22019	75	REPLACEMENT	NO
2F51-42SSB0	CP&L	N/A	N/A	BP-21280	75	REPLACEMENT	NO
2SGT-5PG37	CP&L	N/A	N/A	BP-22837	75	REPAIRED	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board: N/A
7. Component: SUPPORTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER AND LIGHT COMPANY (Name) — Date 2-11-92

P.O. BOX 1551, RALEIGH, NC 27602 (Address) — Sheet 1 of 3

2. Plant BRUNSWICK STEAM ELECTRIC PLANT (Name) — Unit TWO

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — BSEP PLANT MODIFICATION 89-106 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. BOX 10429, SOUTHPORT, NC 28461 (Address) — Expiration Date N/A

4. Identification of System RHR (E11)

5. (a) Applicable Construction Code AWS D1.1 19 88 Edition, N/A Addenda, N/A Code Case
ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 THRU WINTER 1981 ADDENDA

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-56VH11	CP&L	N/A	N/A	BP-20611	75	REPAIRED	NO
2E11-20SS19	CP&L	N/A	N/A	BP-20619	75	REPLACEMENT	NO
2E11-95SS20	CP&L	N/A	N/A	BP-20620	75	REPLACEMENT	NO
2E11-20VH26	CP&L	N/A	N/A	BP-20626	75	REPLACEMENT	NO
2E11-20FS27	CP&L	N/A	N/A	BP-20627	75	REPLACEMENT	NO

7. Description of Work ENHANCEMENT OF EXISTING SUPPORTS AND/OR REMOVAL

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TEST: VT3/VT4 PER BSEP VOLUME X, PT 19.6.0 AND PT 91.0.52
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR & REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Chuck Raines, Project Mgr. RHC 2/11/92 Date February 11, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 12-5-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gregory Sparrow Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/13 19 92

(12/82)

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Supports

Sheet 2 of 3
Unit 2
BSEP Plant Mod. 89-106
Repair Organization PO No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2E11-20FS29	CP&L	N/A	N/A	BP-20629	75	REPAIRED	NO
2E11-68PG58	CP&L	N/A	N/A	BP-20658	75	REPAIRED	NO
2E11-34PG89	CP&L	N/A	N/A	BP-20689	75	REPAIRED	NO
2E11-2PG134	CP&L	N/A	N/A	BP-20734	75	REPAIRED	NO
2E11-2PG135	CP&L	N/A	N/A	BP-207	75	REPAIRED	NO
2E11-116FH142	CP&L	N/A	N/A	BP-20742	76	REPLACEMENT	NO
2E11-116FS144	CP&L	N/A	N/A	BP-20744	75	REPAIRED	NO
2E11-2PG150	CP&L	N/A	N/A	BP-20750	75	REPAIRED	NO
2E11-113FH156	CP&L	N/A	N/A	BP-20756	75	REPLACEMENT	NO
2E11-113FS158	CP&L	N/A	N/A	BP-20758	75	REPAIRED	NO
2E11-53VH199	CP&L	N/A	N/A	BP-20799	75	REPAIRED	NO
2E11-53SS200	CP&L	N/A	N/A	BP-25200	75	REPAIRED	NO
2E11-50PG203	CP&L	N/A	N/A	BP-25203	75	REMOVAL	NO
2E11-18PG287	CP&L	N/A	N/A	BP-25287	75	REPAIRED	NO
2E11-18PG289	CP&L	N/A	N/A	BP-25289	75	REPAIRED	NO
2E11-18PG290	CP&L	N/A	N/A	BP-25290	75	REPAIRED	NO
2E11-18VH291	CP&L	N/A	N/A	BP-25291	75	REPAIRED	NO
2E11-18PG293	CP&L	N/A	N/A	BP-25293	75	REPAIRED	NO
2E11-1SS303	CP&L	N/A	N/A	BP-25303	75	REPAIRED	NO
2E11-4SS399	CP&L	N/A	N/A	BP-25399	75	REPAIRED	NO
2E11-5SS400	CP&L	N/A	N/A	BP-25400	75	REPAIRED	NO
2E11-4SS401	CP&L	N/A	N/A	BP-25401	75	REPAIRED	NO
2E11-5SS402	CP&L	N/A	N/A	BP-25402	75	REPLACEMENT	NO
2E11-3SS403	CP&L	N/A	N/A	BP-25403	75	REPAIRED	NO
2E11-6SS404	CP&L	N/A	N/A	BP-25404	75	REPAIRED	NO
2E11-8SS405	CP&L	N/A	N/A	BP-25405	75	REPAIRED	NO
2E11-6SS406	CP&L	N/A	N/A	BP-25406	75	REPAIRED	NO
2E11-8SS407	CP&L	N/A	N/A	BP-25407	75	REPAIRED	NO
2E11-12SS408	CP&L	N/A	N/A	BP-25408	75	REPLACEMENT	NO
2E11-9SS411	CP&L	N/A	N/A	BP-25411	75	REPAIRED	NO

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Supports

Sheet 3 of 3
Unit 2
BSEP Plant Mod. 89-106
Repair Organization PO No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2E11-95SS418	CP&L	N/A	N/A	BP-25418	75	REPLACEMENT	NO
2E11-60SS443	CP&L	N/A	N/A	BP-25443	75	REPAIRED	NO
2E11-18PG458	CP&L	N/A	N/A	BP-25458	75	REPLACEMENT	NO
2E11-53SS462	CP&L	N/A	N/A	BP-25462	75	REMOVAL	NO
2E11-53SS463	CP&L	N/A	N/A	BP-25463	75	REMOVAL	NO
2E11-18SS470	CP&L	N/A	N/A	BP-25470	75	REPLACEMENT	NO
2E11-17PG503	CP&L	N/A	N/A	BP-25503	75	REMOVAL	NO
2E11-46SS510	CP&L	N/A	N/A	BP-25510	75	REPLACEMENT	NO
2E11-52SS596	CP&L	N/A	N/A	BP-25596	75	REMOVAL	NO
2E11-50SS597	CP&L	N/A	N/A	BP-25597	75	REMOVAL	NO
2E11-20PG419	CP&L	N/A	N/A	BP-25419	75	REMOVAL	NO
2E11-56SS505	CP&L	N/A	N/A	BP-25505	75	REPAIRED	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: HPCI ACTUATOR REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 5, 1992

P.O. Box 1551, Raleigh, NC, 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC, 28461 (Address) — BNP PLANT MODIFICATION 90-016 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OM&M (ITI-MOVATS, CONTRACTOR) (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC, 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System HIGH PRESSURE COOLANT INJECTION SYSTEM (E41) - CLASS 1 AND 2

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BONNET	ANCHOR/DARLING	E-B149-4	N/A	2-E41-F001	1990	REPLACEMENT	NO
STEM	ANCHOR/DARLING	E-B149-4	N/A	2-E41-F001	1990	REPLACEMENT	NO
STEM	ANCHOR/DARLING	E-B149-3	N/A	2-E41-F006	1990	REPLACEMENT	NO
STEM	ANCHOR/DARLING	E-B339-3	N/A	2-E41-F011	1990	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF 2-E41-F001 ACTUATOR, INCLUDING A NEW VALVE BONNET

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1398 psi Test Temp. AMBIENT °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-08. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED. DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS DEC 10, 1991.

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.

repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed David D Mueller OH&M ENGINEER Date FEB 5, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gracly Spaung Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/10 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: PIPING AND VALVE

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 7, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — BSEP PLANT MODIFICATION 90-017 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by MODIFICATION SUPPORT UNIT (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System HIGH PRESSURE COOLANT INJECTION SYSTEM (E41) - CLASS 2

5. (a) Applicable Construction Code ASME III * ANSI B31.1 1983 Edition 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE	NIPPON KOKAN	HT# 30133	N/A	2-E41-20-10-904	87	REPLACEMENT	NO
PIPE	NIPPON KOKAN	HT# 30133	N/A	2-E41-20-10-904	87	REPLACEMENT	NO
VALVE	VALTEK	74109.002	N/A	2-E41-F008	90	REPLACEMENT	NO
VALVE	VALTEK	74109.004	N/A	2-E41-F012	90	REPLACEMENT	NO
PIPE	U.S. STEEL	HT# L00489	N/A	2-E41-19-4-152	91	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF VALVES 2-E41-F008 AND 2-E41-F012

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure SEE 9 psi Test Temp. SEE 9 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks TEST PRESSURES WERE AT 1938 PSI, 1430 PSI AND 220 PSI AND TEST TEMPERATURE OF AMBIENT RESPECTIVELY.
Applicable Manufacturer's Data Reports to be attached
NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-08. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED.

DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS DEC 11, 1991.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Billy R Page Mgr Eng. Date 2-10, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Lyons
Inspector's Signature

Commissions NC 990
National Board, State, Province, and Endorsements

Date 2/11 19 93

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VAVLE AND PIPING

Sheet 2 of 2
Unit TWO
BNP PLANT MOD 90-017
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SOCKOLET	WFI	HT# 783KNB	N/A	2-E41-19-4-152	91	REPLACEMENT	NO
FLANGE	WFI	479SNF	N/A	2-E41-19-4-152	91	REPLACEMENT	NO
FLANGE	WFI	479SNF	N/A	2-E41-19-4-152	91	REPLACEMENT	NO
SPECTACLE	JESSOP STL.	HT# 26706	N/A	2-E41-19-4-152	90	REPLACEMENT	NO
SPECTACLE	JESSOP STL.	HT# 26706	N/A	2-E41-18-4-605	90	REPLACEMENT	NO
SUPPORT	* N/A	N/A	N/A	2-E41-18FH19	91	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: RPV INTERNAL PIPING

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — PLANT MOD 91-043 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by GENERAL ELECTRIC COMPANY (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

175 CURTNER AVENUE, SAN JOSE, CALIFORNIA 95125 (Address) — Expiration Date N/A

4. Identification of System RPV (INVESSEL CORE SPRAY PIPING) - CLASS 1

5. (a) Applicable Construction Code ASME III * 19 83 Edition, WINTER, 1985 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83W85

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
UPPER BRACKET	GENERAL ELECTRIC	N/A	N/A	HT. NO. 29HH401A	1991	REPLACEMENT	NO
UPPER BRACKET	GENERAL ELECTRIC	N/A	N/A	HT. NO. 29HH401A	1991	REPLACEMENT	NO

7. Description of Work ADDED REINFORCING BRACKETS TO THE 'A' LOOP OF THE INVESSEL CORE SPRAY PIPING.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks THESE BRACKETS WERE ADDED TO REPAIR A FLAWED WELD JOINT (TEE BOX TO PIPE ON RIGHT SIDE OF TEE BOX)

Applicable Manufacturer's Data Reports to be attached

NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-08. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED.

DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS NOVEMBER, 1991. * THIS IS A NON-CODE REPAIR. ASME SECTION III (83W85) AND ASME SECTION XI (83W85) WERE USED AS GUIDANCE FOR THIS REPAIR.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Bailey Powell for Steve Frick Date 2-19- , 19 92

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period N/A to N/A, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

N/A
Inspector's Signature

Commissions N/A
National Board, State, Province, and Endorsements

Date N/A 19 N/A

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: BOTTOM HEAD DRAIN

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — PM 91-045 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

3SEP - P.O. Box 10429, Southport, NC. 28561 (Address) — Expiration Date N/A

4. Identification of System REACTOR WATER CLEANUP (1005) BOTTOM HEAD DRAIN LINE - CLASS 1

* AWS D1.1 1988 Edition
** ANSI B31.1 1983 Edition

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE GUIDE	* BERGEN PATERSON	N/A	N/A	2G31-16PG254	1991	ADDED NEW SUPPORT	NO
RWCU PIPING	HUB, INC.	N/A	N/A	LINE NO. 2-G31-16 HT# K30719	1991	REPLACEMENT	NO
THERMO WELL	WEEDS	N6287	N/A	2G31-TW-N042 HT# 265CN	1991	REPLACEMENT	NO

7. Description of Work REPLACED SECTION OF LINE AND THERMO WELL, MODIFIED SUPPORTS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-08. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED. DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS NOVEMBER 13, 1991.

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] PROJECT MANAGER Date Feb 10, 19 92

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/10/90 to 12-7-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Spring Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/12 19 93

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: BOTTOM HEAD DRAIN

Sheet 2 of 2
Unit TWO
PM 91-045
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B32-26VH115	BERGEN PATERSON	VS4C	N/A	SPRING CAN	1974	REMOVED	NO
2G31-16PG225	BERGEN PATERSON	N/A	N/A	PIPE GUIDE	1974	REMOVED	NO
2G31-16VH223	BERGEN PATERSON	VS2G	N/A	SPRING CAN	1974	REMOVED	NO
2B32-26VH229	BERGEN PATERSON	VS4A	N/A	SPRING CAN	1974	REPLACED	NO
2B32-26PG229	BERGEN PATERSON **	5006	N/A	PIPE GUIDE	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SERVICE WATER PIPING AND VALVES

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 12, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 3

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — PM 90 064 - SW SYSTEM INSPECTIONS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OUTAGE MANAGEMENT AND MODIFICATIONS GROUP (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

* AWS D1.1 1988 Edition
** ANSI B31.1 1983 Edition

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPING	N/A	N/A	N/A	2-SW-101-14-046	1991	REPAIRED	NO
PIPING	N/A	N/A	N/A	2-SW-102-14-046	1991	REPAIRED	NO
PIPING	N/A	N/A	N/A	2-SW-142-30-157	1991	REPAIRED	NO
PIPING	N/A	N/A	N/A	2-E11-195-1/2	1991	REPLACEMENT	NO
PIPING	N/A	N/A	N/A	2-E11-180-1/2	1991	REPLACEMENT	NO

7. Description of Work SERVICE WATER INSPECTION AND REPAIR

8. Tests Conducted: Hydrostatic ■ Pneumatic □ Nominal Operating Pressure ■
Other ■ Pressure 1.1 x Pd psi Test Temp. AMBIENT °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-08. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED.
Applicable Manufacturer's Data Reports to be attached
DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS 11-19-91.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR/REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed C Eldridge ENGINEER Date FEBRUARY 12, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Brady Young Commissions NC 490
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/14 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SEE BELOW

Sheet 2 of 3
Unit TWO
PM 90-064
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPING	N/A	N/A	N/A	2-E11-167-1/2	1991	REPLACEMENT	NO
PIPING	N/A	N/A	N/A	2-E11-178-1/2	1991	REPLACEMENT	NO
PIPING	N/A	N/A	N/A	2-SW-234-6-157	1991	REPAIRED	NO
PIPING	N/A	N/A	N/A	2-SW-106-20-157	1991	REPAIRED	NO
FLANGE	N/A	N/A	N/A	2-SW-V146 UPSTRM	1991	REPLACEMENT	NO
VALVE	JAMESBURY	ND-127185-07D	N/A	2-SW-V146	1991	REPLACEMENT	NO
VALVE	ANCHOR-DARLING	EB590-1-5	N/A	2-E11-F005A	1991	REPLACEMENT	NO
VALVE	ANCHOR-DARLING	EB590-1-6	N/A	2-E11-F005B	1991	REPLACEMENT	NO
VALVE	ANCHOR-DARLING	EB590-1-7	N/A	2-E11-F005C	1991	REPLACEMENT	NO
VALVE	ANCHOR-DARLING	EB590-1-8	N/A	2-E11-F005D	1991	REPLACEMENT	NO
PIPING	N/A	N/A	N/A	2-SW-29-18-046	1991	REPAIRED	NO
PIPING	N/A	N/A	N/A	2-SW-235-18-157	1991	REPAIRED	NO
SUPPORT	* N/A	N/A	N/A	2E11-131PG367	1991	REPAIRED	NO
SUPPORT	** N/A	N/A	N/A	2SW-142PG74	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SEE BELOW

Sheet 3 of 3
Unit TWO
PM 90-064
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SUPPORT	** N/A	N/A	N/A	2SW-142PG75	1991	REPLACEMENT	NO
VALVE	PRATT	MODEL 1847335 WR/JO 91-ACLZ1	N/A	2-SW-V9	1991	REPLACEMENT	NO
VALVE	PRATT	MODEL 1847335 WR/JO 91-AJJW1	N/A	2-SW-V10	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 5, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — PLANT MOD 90-071 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by POWER CUTTER, INC./OM&M (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System FEEDWATER 2-B21-F010A & 2-B21-F010B - CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	ATTWOOD MORRILL	1-16221-01A	N/A	2-B21-F010A	1991	REPLACEMENT	NO
VALVE	ATTWOOD MORRILL	2-16221-01A	N/A	2-B21-F010B	1991	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF THE FEEDWATER CHECK VALVES BY CUTTING AND WELDING

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure 1100 psi Test Temp. 190 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks THIS HYDRO COVERED ALL WELDS RELATVIVE TO THE REPLACEMENT OF THE FEEDWATER CHECK VALVES

Applicable Manufacturer's Date Reports to be attached

NIS-2 FORM RETYPED BY ISI TO MEET REQUIREMENTS OF PLP-08. DATE ON FRONT OF NIS-2 FORM INDICATES DATE FORM WAS RETYPED.

DATE ORIGINAL NIS-2 FORM WAS PREPARED WAS 11-26-91.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] (MOD ENGINEER) Date 5, FEB, 19 92

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Young Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/10 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: TEE, INSERT, AND PIPE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992
P.O. Box 1551, Raleigh, NC, 27602 (Address) — Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant (Name) — Unit 2
P.O. Box 10429, Southport, NC, 28461 (Address) — 2SP-89-041 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by WESTINGHOUSE/PCI (570310110) (Name) — Type Code Symbol Stamp N/A
Authorization No. N/A
ONE ENERGY DRIVE, BOX 3000, LAKE BLUFF, ILL. 60044 (Address) — Expiration Date N/A
4. Identification of System RPV BOTTOM HEAD DRAIN (B32) CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
TEE,2",SW,S	HUB, INC.	HT# 5388	N/A	PO 654621 734-856-41	N/A	REPLACEMENT	NO
CAP,PIPE,1", SW	HUB, INC	HT# 792RNB	N/A	PO 654621 734-856-17	N/A	REPLACEMENT	NO
INSERT,2"x1" SW	HUB, INC	HT# 0482	N/A	PO 654621 734-856-09	N/A	REPLACEMENT	NO
PIPE,2",SCH 160	HUB, INC	HT# 80093	N/A	PO 624768 696-696-95	N/A	REPLACEMENT	NO
PIPE,1",SCH 160	HUB, INC	HT# 266932	N/A	PO 198607 696-696-20	N/A	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF TEE, INSERT, AND PIPE

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1097 psi Test Temp. 183 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the [illegible] REPLACEMENT conforms to the rules of the ASME Code, Section XI. replacement

Type Code Symbol Stamp

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 3/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/2/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: PIPING REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 87-BLEP1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System STANDBY GAS TREATMENT SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPING	CONSOLIDATED POWER COMPANY	N/A	N/A	PIPE, 2", SMLS, SCH 80	1990	REPLACEMENT	NO
PIPING (ELBOWS)	GUYON ALLOY'S	N/A	N/A	ELBOW, BUTT, 2" 90D, LR	1990	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF PROCESS PIPING FORMING LOOP SEAL

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks DEMONSTRATION OF UNIMPAIRED FLOW PER ASME SECTION XI, IWC-5222(c), DOCUMENTED ON WR/JO 87-BLEP1.
Applicable Manufacturer's Date Reports to be attached
PT 15.6 APPLICABLE STEPS COMPLETED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date 2/19, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: RHR FLOW OPIFICE 2-E11-FO-D001A

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date January 30, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — BSEP WR/JO 89-AEYP1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SYSTEM - CLASS 2

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FLOW ORIFICE	VICKERY SIMS	N/A	N/A	VENDOR DRAWING P-1351-1	N/A	REPLACED	NO
FLOW ORIFICE	CP&L	N/A	N/A	DR 89-0220 2-E11-FO-D001A	1989	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF ORIFICE 2-E11-FO-D001A

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MJK 2/10/92 Date 2/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/19 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Valve 2-E11-F017A

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date April 29, 1991

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 89-AQEP1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28561 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ASME SEC. III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81A

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-F017A	Rockwell	N/A	N/A	MDL 407 BMTY-24"*20"*24"	N/A	Repair	No

7. Description of Work Weld Repair to Eroded Areas on Valve Body

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1100 psi Test Temp. 175 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed L. W. Whitley ISI Supervisor Date April 29, 19 91
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10/1/89 to 4/30/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Gordy Young Commissions NC 990
National Board, State, Province, and Endorsements

Date 5/1 19 91

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Pipe Guide Repair

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date 04/23/91

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 89-AWIW1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC 28561 (Address) — Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-4	CP&L	N/A	N/A	BP-20606	1989	Repair	No

7. Description of Work Repair Support

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] ISI/IST Supervisor Date April 25, 19 91

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10/1/89 to 4/30/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gerald Young Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 5/1 19 91

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Pipe Guide Repair

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date 04/24/91

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 89-BAMY1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28561 (Address) — Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-95PG24	CP&L	N/A	N/A	BP-20624	1989	Repair	No

7. Description of Work Repair Support

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed L D Wheatley IST/ISI Supervisor Date April 25, 19 91

Owner or Owner's Designee, title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10/1/89 to 4/30/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gerald Young Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 5/1 19 91

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Pipe Guide Repair

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date 04/24/91

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 89-BAZW1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-49PG238	CP&L	N/A	N/A	BP-2523B	1989	Repair	No

7. Description of Work Repair Support

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

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(12/82) This form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (repair or replacement) conforms to the rule of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed L.D. Whitley ISI/IST Supervisor Date April 25, 19 91

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10/1/89 to 4/30/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NB 990

National Board, State, Province, and Endorsements

Date 5/1 19 91

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 90-AFUG1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System NUCLEAR BOILER SYSTEM - CLASS 1

5. (a) Applicable Construction Code ASME III 19__ Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MAIN STAGE	TARGET ROCK	SN 167	N/A	2-B21-F013C	1990	REPLACEMENT	NO
MAIN STAGE	TARGET ROCK	UNKNOWN	N/A	2-B21-F013C	UNKNOWN	REPLACED	NO

7. Description of Work REPLACEMENT OF MAIN STAGE SAFETY RELIEF VALVES

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure >1088 psi Test Temp. 200 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK 2/13/92 Date 2/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 90-APQA1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System SERVICE WATER - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A. __ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	TECHNO CHECK	UNKNOWN SEE REMARKS	N/A	2-SW-V202	1990	REPLACEMENT	NO

7. Description of Work VALVE REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure 48 - 78 psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks VALVE HAS SUBSEQUENTLY BEEN REP ;ED VIA WR/JO 91VEJ425 (NIS-2 FORM FOR WR/JO 91VEJ425 INCLUDED IN THIS NIS-1 SUBMITTAL.

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MGK 2/13/92 Date 2/14, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Snubber Replacement

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date 04/23/91

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-AFCK1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal - CLASS 2

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-113SS157	Bergen Paterson	N/A	N/A	BSEP-100	1991	Replacement	No

7. Description of Work Snubber Replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks Replacement of Snubber

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] RAC 3/10/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/8/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Young Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/19 19 93

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Snubber Replacement

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date 04/23/91

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-AHPD1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System High Pressure Coolant Injection - CLASS 2

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E41-61SS73	Bergen Paterson	N/A	N/A	BSEP-62	1991	Replacement	No

7. Description of Work Snubber Replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks Replacement of Snubber

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] RAC 2/11/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 12/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 996

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/19 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2 BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: Snubber Replacement

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date 04/23/91

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-AHYY1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Expiration Date N/A

4. Identification of System Residual Heat Removal - CLASS 2

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-6SS404	Bergen Paterson	N/A	N/A	BSEP-493	1975	Replacement	No

7. Description of Work Snubber Replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks REPLACEMENT OF SNUBBER

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] RWC 2/11/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/3/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18 19 92

(12/92)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: CONTROL ROD DRIVE CAP SCREW REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 21-AIDB1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System CONTROL ROD DRIVE FLANGE BOLTING - CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
SCREW, CAP	GE NUCLEAR	N/A	N/A	117C4515P002	1991	REPLACEMENT	NO

7. Description of Work REPLACE CONTROL ROD DRIVE CAP SCREW

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure 1200 psi Test Temp. 530 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks BOLTING FOR 27 CONTROL ROD DRIVES REPLACED UNDER WR/JO 91-AIDB1. BOLTING FOR 30 CONTROL ROD DRIVES WERE REPLACED UNDER
Applicable Manufacturer's Data Reports to be attached
THE FOLLOWING WR/JO NOs: 91-AMCP1, 90-AKIF1, 90-AFWA1, 91-APMR1, 90-APIE1, 91-APUG1, 90-AFUX2, 90-ASXP1, 90-AFUB1, 90-AFUZ1, 91-AJYZ1, 91-AIWH1, 90-ASKS1, 91-AECF1, 91-AFZJ1, 90-APMS1, 91-AQED1, 90-ARMP1, 90-ARNM1, 91-AQEE1, 91-AQEF1, 91-AQEG1, 91-ACKS1, 91-AQEH1, 90-ARMQ1, 90-AIIZ1, 91-AQEJ1, 91-AQEI1, 90-ASTK1, 90-AVQB1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MJK Date 2/19, 1992
Owner or Owner's Designee, Title 2/13/92

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 2/17/90 to 1/13/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/01/75
6. National Board: N/A
7. Component: VALVE AND PIPING REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-AK-1 and 91-AKAB3 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	TECHNO CORP	P-200-C1	N/A	2-SW-V203 91-AKAB1	1991	REPLACEMENT	NO
REDUCER	ALASKAN COPPER WORKS	* N/A	N/A	4x1-1/2" REDUCER 91-AKAB3	[illegible]	REPLACEMENT	NO
FLANGE	ALASKAN COPPER WORKS	* N/A	N/A	4" FLANGE 91-AKAB3	[illegible]	REPLACEMENT	NO
SPOOL PIECE	N/A	* N/A	N/A	2-SW-92-4-157B	1991	REPLACEMENT	NO

7. Description of Work REPLACED VALVE, REDUCER, AND FLANGE * HYDROSTATIC TESTED

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure 48 - 78 psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK 2/13/92 Date 4/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/3/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC950

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 14, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-AKJX1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-116SS409	CP&L	N/A	N/A	BSEP-1015	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

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(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 2/19, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/17/90 to 1/15/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALHM1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL - CLASS 1 AND 2

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-116SS409	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-1480	1991	REPLACEMENT	NO
2-E11-47SS228	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-1742	1991	REPLACEMENT	NO
2-E11-47SS323	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-574	1991	REPLACEMENT	NO
2-E11-47SS326	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-1789	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] RBC 2/10/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/16/90 to 1/3/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Brady [illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 2 of 2
Unit TWO
WR/JO 91-ALHM1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-47SS32B	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-575	1991	REPLACEMENT	NO
2-E11-8SS405	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-161	1991	REPLACEMENT	NO
2-E11-8SS407	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-450	1991	REPLACEMENT	NO
2-E11-9SS411	BERGEN PATERSON	N/A	N/A	91-ALHM1 BSEP-1133	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 3

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-ALHP1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SYSTEM - CLASS 1, 2, AND 3

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80WN1

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-109SS412	BERGEN PATERSON	N/A	N/A	BSEP-1017	1991	REPLACEMENT	NO
2-E11-113SS410	BERGEN PATERSON	N/A	N/A	BSEP-359	1991	REPLACEMENT	NO
2-E11-125S408	BERGEN PATERSON	N/A	N/A	BSEP-1435	1991	REPLACEMENT	NO
2-E11-131SS255	BERGEN PATERSON	N/A	N/A	BSEP-333	1991	REPLACEMENT	NO
2-E11-131SS257	BERGEN PATERSON	N/A	N/A	BSEP-64	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 3/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/25 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 2 of 3
Unit TWO
WR/JO 91-ALHP1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-132SS264	BERGEN PATERSON	N/A	N/A	BSEP-645	1991	REPLACEMENT	NO
2-E11-21SS296	BERGEN PATERSON	N/A	N/A	BSEP-1242	1991	REPLACEMENT	NO
2-E11-35SS360	BERGEN PATERSON	N/A	N/A	BSEP-1386	1991	REPLACEMENT	NO
2-E11-49SS330	BERGEN PATERSON	N/A	N/A	BSEP-1372	1991	REPLACEMENT	NO
2-E11-49SS331	BERGEN PATERSON	N/A	N/A	BSEP-651	1991	REPLACEMENT	NO
2-E11-49SS333	BERGEN PATERSON	N/A	N/A	BSEP-1171	1991	REPLACEMENT	NO
2-E11-49SS334	BERGEN PATERSON	N/A	N/A	BSEP-716	1991	REPLACEMENT	NO
2-E11-49SS336	BERGEN PATERSON	N/A	N/A	BSEP-959	1991	REPLACEMENT	NO
2-E11-49SS359	BERGEN PATERSON	N/A	N/A	BSEP-1293	1991	REPLACEMENT	NO
2-E11-68SS406	BERGEN PATERSON	N/A	N/A	BSEP-1243	1991	REPLACEMENT	NO
2-E11-90SS267	BERGEN PATERSON	N/A	N/A	BSEP-1666	1991	REPLACEMENT	NO
2-E11-90SS268	BERGEN PATERSON	N/A	N/A	BSEP-948	1991	REPLACEMENT	NO
2-E11-90SS271	BERGEN PATERSON	N/A	N/A	BSEP-1091	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 3 of 3
Unit TWO
WR/JO 91-ALHP1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-9055275	BERGEN PATERSON	N/A	N/A	BSEP-378	1991	REPLACEMENT	NO
2-E11-9555233	BERGEN PATERSON	N/A	N/A	BSEP-110	1991	REPLACEMENT	NO
2-E11-9555234	BERGEN PATERSON	N/A	N/A	BSEP-662	1991	REPLACEMENT	NO
2-E11-9555235	BERGEN PATERSON	N/A	N/A	GSEP-786	1991	REPLACEMENT	NO
2-E11-7155393	BERGEN PATERSON	N/A	N/A	BP-25393	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALH01 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80WB1

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-90SS274	BERGEN PATERSON	N/A	N/A	BSEP-330	1991	REPLACEMENT	NO
2-E11-90SS388	BERGEN PATERSON	N/A	N/A	BSEP-1274	1991	REPLACEMENT	NO
2-E11-58SS35	BERGEN PATERSON	N/A	N/A	BSEP-1496	1991	REPLACEMENT	NO
2-E11-49SS516	BERGEN PATERSON	N/A	N/A	BSEP-715	1991	REPLACEMENT	NO
2-E11-21SS297	BERGEN PATERSON	N/A	N/A	BSEP-60	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 4/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 950

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/25 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) P.O. No., Job No., etc.

3. Work Performed by Mechunical Maintenance (Name) Stamp N/A

N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) Expir N/A

4. Identification of System REACTOR CORE ISOLATION COOLING SYSTEM - CLASS 3

5. (a) Applicable Construction Code ANSI B31.1 19 83 Addenda, N/A Code Case N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W6.

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E51-40SS85	BERGEN PATERSON	N/A	N/A	BSEP-951	1991	REPLACEMENT	NO
2-E51-42SS77	BERGEN PATERSON	N/A	N/A	BSEP-158	1991	REPLACEMENT	NO
2-E51-42SS80	BERGEN PATERSON	N/A	N/A	BSEP-425	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/19 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALHZ1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System REACTOR CORE ISOLATION COOLING SYSTEM - CLASS 3

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E51-42SS77	BERGEN PATERSON	N/A	N/A	BSEP-158	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] RHC 2/11/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/19/90 to 1/5/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18 1993

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALIA1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System STANDBY LIQUID CONTROL SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-C41-9SS4	BERGEN PATERSON	N/A	N/A	BSEP-1222	1991	REPLACEMENT	NO
2-C41-9SS5	BERGEN PATERSON	N/A	N/A	BSEP-285	1991	REPLACEMENT	NO
2-C41-9SS8	BERGEN PATERSON	N/A	N/A	BSEP-503	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(02) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALID1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System FUEL POOL COOLING SYSTEM - CLASS 3

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-G41-10SS67	BERGEN PATERSON	N/A	N/A	BSEP-76	1991	REPLACEMENT	NO
2-G41-11SS54	BERGEN PATERSON	N/A	N/A	BSEP-678	1991	REPLACEMENT	NO
2-G41-11SS79	BERGEN PATERSON	N/A	N/A	BSEP-769	1991	REPLACEMENT	NO
2-G41-12SS33	BERGEN PATERSON	N/A	N/A	BSEP-144	1991	REPLACEMENT	NO
2-G41-12SS98	BERGEN PATERSON	N/A	N/A	BSEP-1041	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] RHC 2/10/92 Date 2/12, 19 92

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/15/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NB490

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/19 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 2 of 2
Unit TWO
WR/JO 91-ALID1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-G41-15SS37	BERGEN PATERSON	N/A	N/A	BSEP-784	1991	REPLACEMENT	NO
2 41-20SS76	BERGEN PATERSON	N/A	N/A	BSEP-751	1991	REPLACEMENT	NO
2-G41-22SS85	BERGEN PATERSON	N/A	N/A	BSEP-180	1991	REPLACEMENT	NO
2-G41-59SS159	BERGEN PATERSON	N/A	N/A	BSEP-1052	1991	REPLACEMENT	NO
2-G41-5SS152	BERGEN PATERSON	N/A	N/A	BSEP-576	1991	REPLACEMENT	NO
2-G41-6SS111	BERGEN PATERSON	N/A	N/A	BSEP-485	1991	REPLACEMENT	NO
2-G41-7SS121	BERGEN PATERSON	N/A	N/A	BSEP-491	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date february 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALIF1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System PRIMARY STEAM SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-PSN-B3SS47	BERGEN PATERSON	N/A	N/A	BSEP-1442	1991	REPLACEMENT	NO
2-PSN-F3SS48	BERGEN PATERSON	N/A	N/A	BSEP-1961	1991	REPLACEMENT	NO
2-PSN-B5SS51	BERGEN PATERSON	N/A	N/A	BSEP-1938	1991	REPLACEMENT	NO
2-PSN-C2SS54	BERGEN PATERSON	N/A	N/A	BSEP-02	1991	REPLACEMENT	NO
2-PSN-C2SS55	BERGEN PATERSON	N/A	N/A	BSEP-685	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 2/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/93 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/25 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 2 of 2
Unit TWO
WR/JO 91-ALIF1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-PSN-C3SS56	BERGEN PATERSON	N/A	N/A	BSEP-1410	1991	REPLACEMENT	NO
2-PSN-C3SS57	BERGEN PATERSON	N/A	N/A	BSEP-2072	1991	REPLACEMENT	NO
2-PSN-C3SS58	BERGEN PATERSON	N/A	N/A	BSEP-240	1991	REPLACEMENT	NO
2-PSN-C3SS60	BERGEN PATERSON	N/A	N/A	BSEP-870	1991	REPLACEMENT	NO
2-PSN-C3SS61	BERGEN PATERSON	N/A	N/A	BSEP-1542	1991	REPLACEMENT	NO
2-PSN-C3SS62	BERGEN PATERSON	N/A	N/A	BSEP-2115	1991	REPLACEMENT	NO
2-PSN-C5SS64	BERGEN PATERSON	N/A	N/A	BSEP-1555	1991	REPLACEMENT	NO
2-PSN-D2SS68	BERGEN PATERSON	N/A	N/A	BSEP-1064	1991	REPLACEMENT	NO
2-PSN-D2SS69	BERGEN PATERSON	N/A	N/A	BSEP-1260	1991	REPLACEMENT	NO
2-PSN-D3SS70	BERGEN PATERSON	N/A	N/A	BSEP-1913	1991	REPLACEMENT	NO
2-PSN-D3SS71	BERGEN PATERSON	N/A	N/A	BSEP-1593	1991	REPLACEMENT	NO
2-PSN-D3SS72	BERGEN PATERSON	N/A	N/A	BSEP-508	1991	REPLACEMENT	NO
2-PSN-D3SS73	BERGEN PATERSON	N/A	N/A	BSEP-1342	1991	REPLACEMENT	NO
2-PSN-D5SS76	BERGEN PATERSON	N/A	N/A	BSEP-2116	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ALIH1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System REACTOR RECIRC SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B32-SSB5	BERGEN PATERSON	N/A	N/A	BSEP-1782	1991	REPLACEMENT	NO
2-B32-SSB6	BERGEN PATERSON	N/A	N/A	BSEP-2112	1991	REPLACEMENT	NO
2-B32-SSB9A	BERGEN PATERSON	N/A	N/A	BSEP-2111	1991	REPLACEMENT	NO
2-B32-SSB9B	BERGEN PATERSON	N/A	N/A	BSEP-1796	991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] RAC 2/11/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 2/17/90 to 1/3/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-AL111 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System REACTOR RECIRC SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B32-SSA10	BERGEN PATERSON	N/A	N/A	BSEP-2014	1991	REPLACEMENT	NO
2-B32-SSA5	BERGEN PATERSON	N/A	N/A	BSEP-1777	1991	REPLACEMENT	NO
2-B32-SSA6	BERGEN PATERSON	N/A	N/A	BSEP-2029	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 2/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/25, 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 3

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-ALIK1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM - CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B21-44SS129	BERGEN PATERSON	N/A	N/A	BSEP-1031	1991	REPLACEMENT	NO
2-B21-44SS131	BERGEN PATERSON	N/A	N/A	BSEP-1407	1991	REPLACEMENT	NO
2-B21-44SS134	BERGEN PATERSON	N/A	N/A	BSEP-1295	1991	REPLACEMENT	NO
2-B21-44SS136	BERGEN PATERSON	N/A	N/A	BSEP-931	1991	REPLACEMENT	NO
2-B21-44SS137	BERGEN PATERSON	N/A	N/A	BSEP-1475	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 7/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/15/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Young Commissions NC990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/25 19 93

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 2 of 3
Unit TWO
WR/JO 91-ALIK1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B21-44SS138	BERGEN PATERSON	N/A	N/A	BSEP-1286	1991	REPLACEMENT	NO
2-B21-44SS141	BERGEN PATERSON	N/A	N/A	BSEP-1132	1991	REPLACEMENT	NO
2-B21-44SS142	BERGEN PATERSON	N/A	N/A	BSEP-1029	1991	REPLACEMENT	NO
2-B21-44SS143	BERGEN PATERSON	N/A	N/A	BSEP-1430	1991	REPLACEMENT	NO
2-B21-44SS146	BERGEN PATERSON	N/A	N/A	BSEP-1291	1991	REPLACEMENT	NO
2-B21-44SS149	BERGEN PATERSON	N/A	N/A	BSEP-1415	1991	REPLACEMENT	NO
2-B21-44SS150	BERGEN PATERSON	N/A	N/A	BSEP-1465	1991	REPLACEMENT	NO
2-B21-46SS147	BERGEN PATERSON	N/A	N/A	BSEP-1085	1991	REPLACEMENT	NO
2-B21-47SS155	BERGEN PATERSON	N/A	N/A	BSEP-1699	1991	REPLACEMENT	NO
2-B21-47SS156	BERGEN PATERSON	N/A	N/A	BSEP-543	1991	REPLACEMENT	NO
2-B21-47SS157	BERGEN PATERSON	N/A	N/A	BSEP-1654	1991	REPLACEMENT	NO
2-B21-701SS164	BERGEN PATERSON	N/A	N/A	BSEP-1221	1991	REPLACEMENT	NO
2-B21-701SS167	BERGEN PATERSON	N/A	N/A	BSEP-1022	1991	REPLACEMENT	NO
2-B21-701SS169	BERGEN PATERSON	N/A	N/A	BSEP-936	1991	REPLACEMENT	NO
2-B21-701SS170	BERGEN PATERSON	N/A	N/A	BSEP-298	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 3 of 3
Unit TWO
WR/JO 91-ALIK1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B21-701SS171	BERGEN PATERSON	N/A	N/A	BSEP-1363	1991	REPLACEMENT	NO
2-B21-701SS172	BERGEN PATERSON	N/A	N/A	BSEP-1371	1991	REPLACEMENT	NO
2-B21-701SS175	BERGEN PATERSON	N/A	N/A	BSEP-1133	1991	REPLACEMENT	NO
2-B21-701SS177	BERGEN PATERSON	N/A	N/A	BSEP-934	1991	REPLACEMENT	NO
2-B21-701SS178	BERGEN PATERSON	N/A	N/A	BSEP-71	1991	REPLACEMENT	NO
2-B21-701SS179	BERGEN PATERSON	N/A	N/A	BSEP-1316	1991	REPLACEMENT	NO
2-B21-701SS184	BERGEN PATERSON	N/A	N/A	BSEP-1701	1991	REPLACEMENT	NO
2-B21-PS-3567	BERGEN PATERSON	N/A	N/A	BSEP-547	1991	REPLACEMENT	NO
2-B21-PS-3722A	BERGEN PATERSON	N/A	N/A	BSEP-403	1991	REPLACEMENT	NO
2-B21-PS-3722B	BERGEN PATERSON	N/A	N/A	BSEP-1019	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner's Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPAIR

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC, 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-0SE1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM - CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PACKING GLAND	ROCKWELL	N/A	N/A	SEE REMARKS	SEE REMARKS	REPAIRED	NO
DISK - PISTON ASS'Y	EDWARDS	PO 787649 PO3r6462	N/A	2-B21-F028D		REPLACED	NO
DISK - PISTON ASS'Y	EDWARDS	PO 6A9142 BT	N/A	2-B21-F028D	1991	REPLACEMENT	NO
STEM/STEM-DISK ASS'Y	EDWARDS	PO 290594	N/A	2-B21-F028D		REPLACED	NO
STEM/STEM-DISK ASS'Y	EDWARDS	PO 661804 CD	N/A	2-B21-F028D	1991	REPLACEMENT	NO

7. Description of Work REPAIR PACKING GLAND ON 2-B21-F028D

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

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(12,82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks THIS ROCKWELL VALVE ARRIVED AT BSEP 12/18/70 PER DWG. 2-FP-55013 (SHEET 2). PACKING GLAND IDENTIFIED ON THIS DRAWING AS ITEM # 28. ADDITIONALLY PT 92.10 COMPLETED FOR TESTS CONDUCTED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR/REPLACEMENT conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed MTK 2/13/92 Date 2/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/25/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NC 990

National Board, State, Province, and Endorsements

Date 2/20 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPAIR

Sheet 2 of 2
Unit TWO
WR/JO 91-AQSE1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BONNET BOLTING	UNKNOWN	HT# 523323	N/A	2-B21-F028D	1991	REPLACEMENT	NO
BONNET NUTS	ROCKWELL	HT# RF82	N/A	2-B21-F028D BONNET NUTS (11)	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPAIR

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 14, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-AQSF1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM - CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BONNET BOLTING	UNKNOWN	PO 6081301	N/A	2-B21-F028C	1991	REPLACEMENT	NO
DISK - PISTON ASS'Y	EDWARDS	PO 787649 PO376462	N/A	2-B21-F028C	UNKNOWN	REPLACED	NO
DISK - PISTON ASS'Y	EDWARDS	PO 649142 BT	N/A	2-B21-F028C	1991	REPLACEMENT	NO
STEM/STEM-DISK ASS'Y	EDWARDS	PO 661804CD	N/A	2-B21-F028C CPL 731-945-32	1991	REPLACEMENT	NO
STEM/STEM-DISK ASS'Y	EDWARDS	PO 290594	N/A	2-B21-F028C CPL 731-945-32	1991	REPLACED	NO

7. Description of Work REPLACEMENT OF VALVE STEM, STEM DISK ASS'Y, AND DISK-PISTON ASS'Y

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks ADDITIONALLY, PT-92.10 COMPLETED
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR/REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK 2/14/92 Date 2/14, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions N8990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1

IMAGE EVALUATION
TEST TARGET (MT-3)

150mm

6"

1

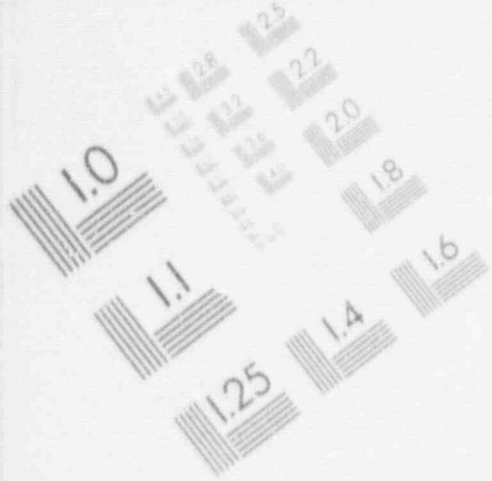
IMAGE EVALUATION TEST TARGET (MT-3)

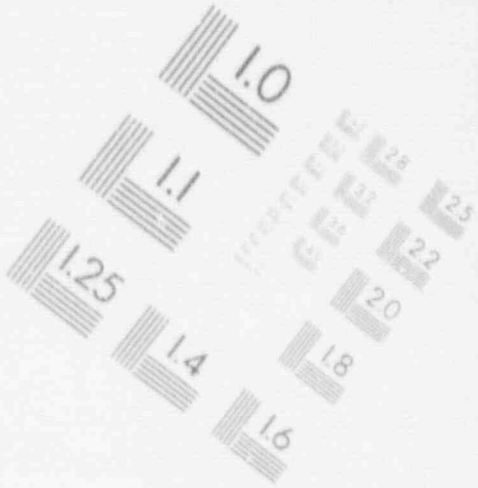
150mm

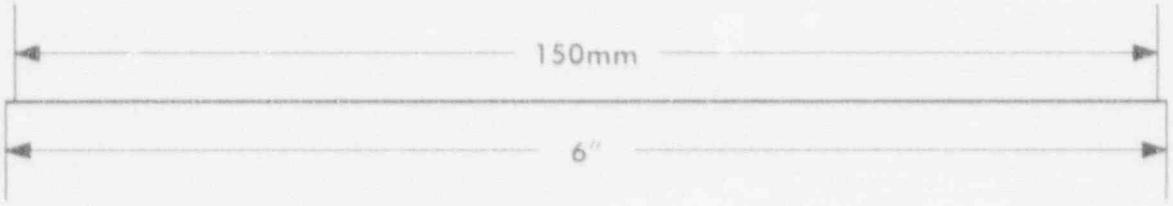
6"

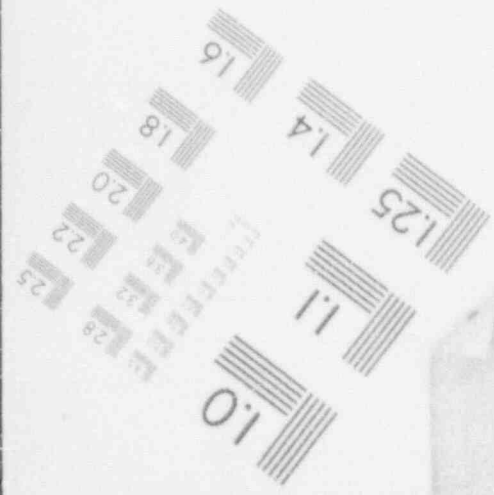
1

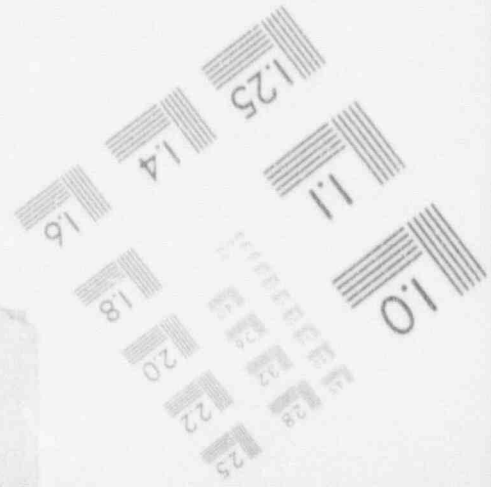
IMAGE EVALUATION
TEST TARGET (MT-3)





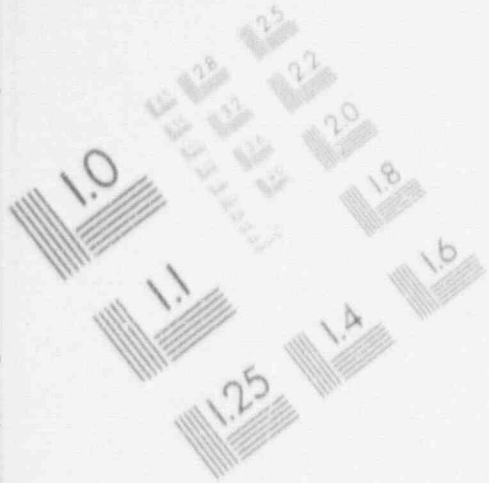


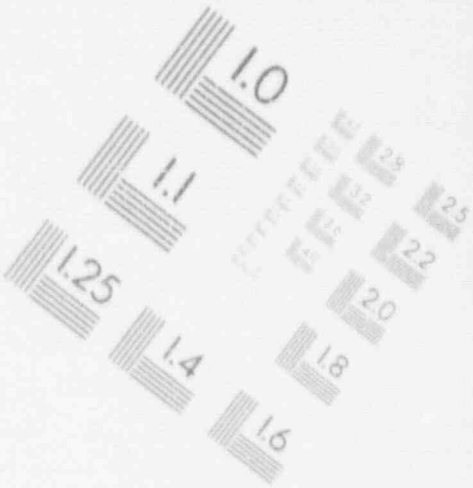


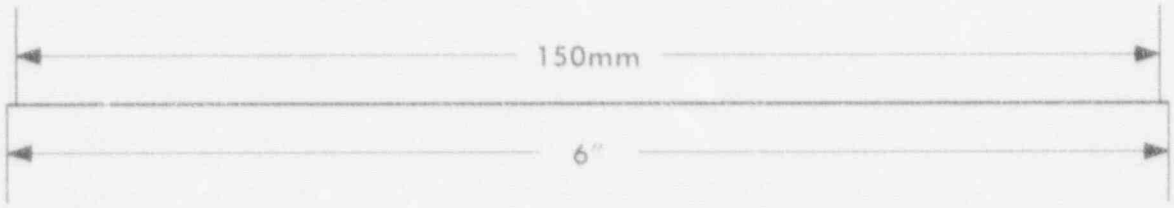


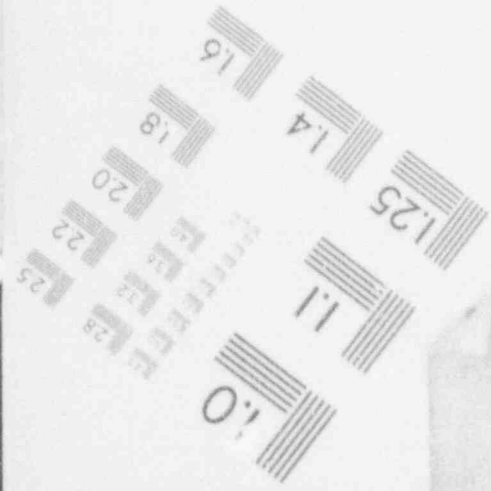
1

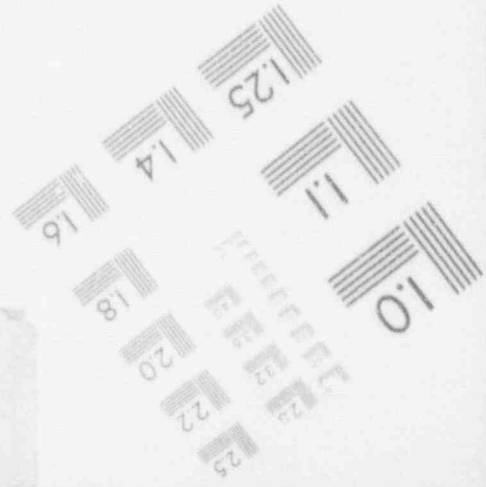
IMAGE EVALUATION
TEST TARGET (MT-3)











1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 27, 1992
P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2
P.O. Box 10429, Southport, NC 28461 (Address) — 91REH425 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A
BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A
Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	TECHNO CORP	K356E	N/A	2-SW-V203	1991	REPLACEMENT	NO
VALVE	TECHNO CORP	W-584-N	N/A	2-SW-V205	1991	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF VALVES 2-SW-V203 AND 2-SW-V205

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date 2/27, 19 92

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady Young Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/27 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 10, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ARBX1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SYSTEM - CLASS 1 AND 2

5. (a) Applicable Construction Code ANSI B31.1 19 83 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-2SS396	BERGEN PATERSON	N/A	N/A	BSEP-1516	1991	REPLACEMENT	NO
2-E11-2SS399	BERGEN PATERSON	N/A	N/A	BSEP-1313	1991	REPLACEMENT	NO
2-E11-2SS413	BERGEN PATERSON	N/A	N/A	BSEP-316	1991	REPLACEMENT	NO
2-E11-3SS403	BERGEN PATERSON	N/A	N/A	BSEP-851	1991	REPLACEMENT	NO
2-E11-4SS397	BERGEN PATERSON	N/A	N/A	BSEP-1109	1991	REPLACEMENT	NO

7. Description of Work SNUBBER REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure N/A psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] RNC 2/11/92 Date 2/12, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/19 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: SNUBBER REPLACEMENT

Sheet 2 of 2
Unit TWO
WR/JO 91-ARBX1
Repair Organization P.O. No., Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-4SS401	BERGEN PATERSON	N/A	N/A	BSEP-627	1991	REPLACEMENT	NO
2-E11-5SS398	BERGEN PATERSON	N/A	N/A	BSEP-1493	1991	REPLACEMENT	NO
2-E11-5SS400	BERGEN PATERSON	N/A	N/A	BSEP-690	1991	REPLACEMENT	NO
2-E11-6SS404	BERGEN PATERSON	N/A	N/A	BSEP-1255	1991	REPLACEMENT	NO
2-E11-5SS402	BERGEN PATERSON	N/A	N/A	BSEP-1429	1991	REPLACEMENT	NO

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ARLU1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	FISHER CONTROL	167812	N/A	2-SW-V105	1991	REPLACEMENT	NO
VALVE	FISHER CONTROL	UNKNOWN	N/A	2-SW-V105 PO 513083	1984	REPLACED	NO

7. Description of Work REPLACEMENT OF 2-SW-V105

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK Date 2/14, 1992
2/13/92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/13/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: TANK HEATER REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC, 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC, 28461 (Address) — WR/JO 91-ARU11 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC, 28461 (Address) — Expiration Date N/A

4. Identification of System STANDBY LIQUID CONTROL SYSTEM - CLASS 2

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86&81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC 'A' HEATER	WELLMAN THERMAL SYSTEMS	PO 6L2106,PART # 737-723-94	N/A	2-C41-A001A MW61W7-B3Y	1991	REPLACEMENT	NO

7. Description of Work REPLACE THE OLD 2 ELEMENT HEATER WITH A 3 ELEMENT HEATER

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure FULL TANK psi Test Temp. 100 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date 2/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/25 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: PIPING REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date february 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ASWH1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 B4 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B0W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPING	ALASKIAN COPPER WORKS	N/A	N/A	2-SW-244-1 1/2-17A	1991	REPLACEMENT	NO
FLANGE	N/A	N/A	N/A	HEAT # FF34 CP&L-725-216-10	1991	REPLACEMENT	NO
FLANGE	N/A	N/A	N/A	CP&L-735-545-94	1991	REPLACEMENT	NO

7. Description of Work REPAIR/REPLACEMENT OF SW-LW PIPING AT THE 2A NUCLEAR SW PUMP

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 2/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gracy Young
Inspector's Signature

Commissions NC 990
National Board, State, Province, and Endorsements

Date 2/21, 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPAIR

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date february 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-AUF01 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM - CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B21-F022C	ROCKWELL	21558542	N/A	DISK,PISTON CPL# 735-578-86	1991	REPLACEMENT	NO
2-B21-F022C	ROCKWELL	N/A	N/A	BONNET NUTS (20) CPL# 696-697-34	1991	REPLACEMENT	NO
2-B21-F022C	ROCKWELL	N/A	N/A	BONNET STUDS (10) CPL# 696-676-57	1991	REPLACEMENT	NO

7. Description of Work PERFORM DR 90-0158 AND REPAIR MSIV 2-B21-F022C

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

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FORM NIS-2 (Back)

9. Remarks OPT-92.10 PERFORMED FOR TESTS CONDUCTED ON STUDS AND NUTS.
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK 2/13/92 Date 2/19, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPAIR

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-AUFH1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM - CLASS 1

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-B21-F022D	ROCKWELL	N/A	N/A	OLD STEM OUT OF 2-B21-F028D	1991	REPLACEMENT	NO
2-B21-F022D	ROCKWELL	N/A	N/A	20 BONNET NUTS CPL# 696-997-34	1991	REPLACEMENT	NO
2-B21-F022D	ROCKWELL	N/A	N/A	5 BONNET STUDS CPL# 696-676-57	1991	REPLACEMENT	NO
2-B21-F022D	ROCKWELL	N/A	N/A	PIN, DISK CPL# 723-744-32	1991	REPLACEMENT	NO
2-B21-F022D	ROCKWELL	215585-40	N/A	DISK,PISTON,ASS'Y CPL# 735-578-86	1991	REPLACEMENT	NO

7. Description of Work PERFORM DR 90-015R AND REPAIR MSIV 2-B21-F022D

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks ADDITIONALLY, PT 92.10 PERFORMED
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Jerry W. Cook MTK 2/13/92 Date 2/14, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Gracey Spring Commissions NC990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: FLANGE BOLTING REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — 91RFN381 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BOLTING	SENIOR ENGINEERING	N/A	N/A	STUD, DBL-END, 1/2-13 UNC 5 x 4	1991	REPLACEMENT	NO
BOLTING	SENIOR ENGINEERING	N/A	N/A	STUD, DBL-END 1/2-13 UNC 5 x 3	1991	REPLACEMENT	NO
BOLTING	SENIOR ENGINEERING	N/A	N/A	NUT, HX, 1/2x13	1991	REPLACEMENT	NO
BOLTING	MACKSON, INC	N/A	N/A	STUD, CNT, 1/2 x 3-1/2 SB-164	1991	REPLACEMENT	NO
BOLTING	TEXAS BOLT	N/A	N/A	NUT, HX, HY, 1/2-13, SB-164	1991	REPLACEMENT	NO

7. Description of Work REPLACED FLANGE BOLTING ON RHR SW BOOSTER PMP MOTOR HX

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ■ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks OPT-08.1.4B COMPLETED FOR TESTS CONDUCTED.
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK 2/13/92 Date 2/19, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 9/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992
P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant (Name) — Unit 2
P.O. Box 10429, Southport, NC. 28461 (Address) — 91VE1215 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A
BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A
Expiration Date N/A
4. Identification of System SERVICE WATER SYSTEM - CLASS 3
5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80WB1
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	TECHNO CORP	K356B	N/A	2-SW-V201	1991	REPLACEMENT	NO

7. Description of Work VALVE REPLACEMENT
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date 2/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Brady Young Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — 91VEJ425 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	TECHNO CORP	K356F	N/A	2-SW-V202	1991	REPLACEMENT	NO
VALVE	TECHNO CORP	K356G	N/A	2-SW-V204	1991	REPLACEMENT	NO

7. Description of Work VALVE REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Date 2/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Grady [illegible] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: PUMP REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 90-ATWC1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PUMP	JOHNSTON PUMP	NRS-5010	N/A	2-SW-2A-NUC-PMP	1991	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF PUMP PARTS DURING REBUILD

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTK 2/13/92 Date 2/14, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-ACCM1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VALVE	TECHNO CORP.	W-584-G	N/A	2-SW-V200	1991	REPLACEMENT	NO

7. Description of Work VALVE REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ■
Other ☐ Pressure 48 - 78 psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] MTL 7/13/92 Date 2/19, 1992

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2/17/90 to 1/5/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC 990

Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 1992

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: PIPE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC 28461 (Address) — WR/JO 91-AC911 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

BSEP - P.O. Box 10429, Southport, NC 28461 (Address) — Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE	N/A	N/A	N/A	2-SW-233-6-157	1991	REPLACEMENT	NO

7. Description of Work PIPING REPLACEMENT

8. Tests Conducted: Hydrostatic ■ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] MTK 2/13/92 Date 2/14, 19 92
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 2/17/90 to 1/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[illegible] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/20 19 92

(12/82)

1. CAROLINA POWER & LIGHT COMPANY, P.O. Box 1551, Raleigh, NC 27602
2. BRUNSWICK STEAM ELECTRIC PLANT, P.O. Box 10429, Southport, NC 28461
3. Unit No. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board: N/A
7. Component: VALVE REPLACEMENT

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Caroline Power & Light Company (Name) — Date February 13, 1992

P.O. Box 1551, Raleigh, NC. 27602 (Address) — Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant (Name) — Unit 2

P.O. Box 10429, Southport, NC. 28461 (Address) — WR/JO 91-AFCJ1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Mechanical Maintenance (Name) — Type Code Symbol Stamp N/A

BSEP - P.O. Box 10429, Southport, NC. 28461 (Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System SERVICE WATER SYSTEM - CLASS 3

5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-SW-V129	JAMESBURY	N/A	N/A	SEE REMARKS	1991	REPLACEMENT	NO

7. Description of Work REPLACEMENT OF VALVE 2-SW-V129

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi, Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E 00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks OTHER IDENTIFICATION - CP&L PART # - 6-B15212718SD1-14RL-SA
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date 2/19, 1992
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

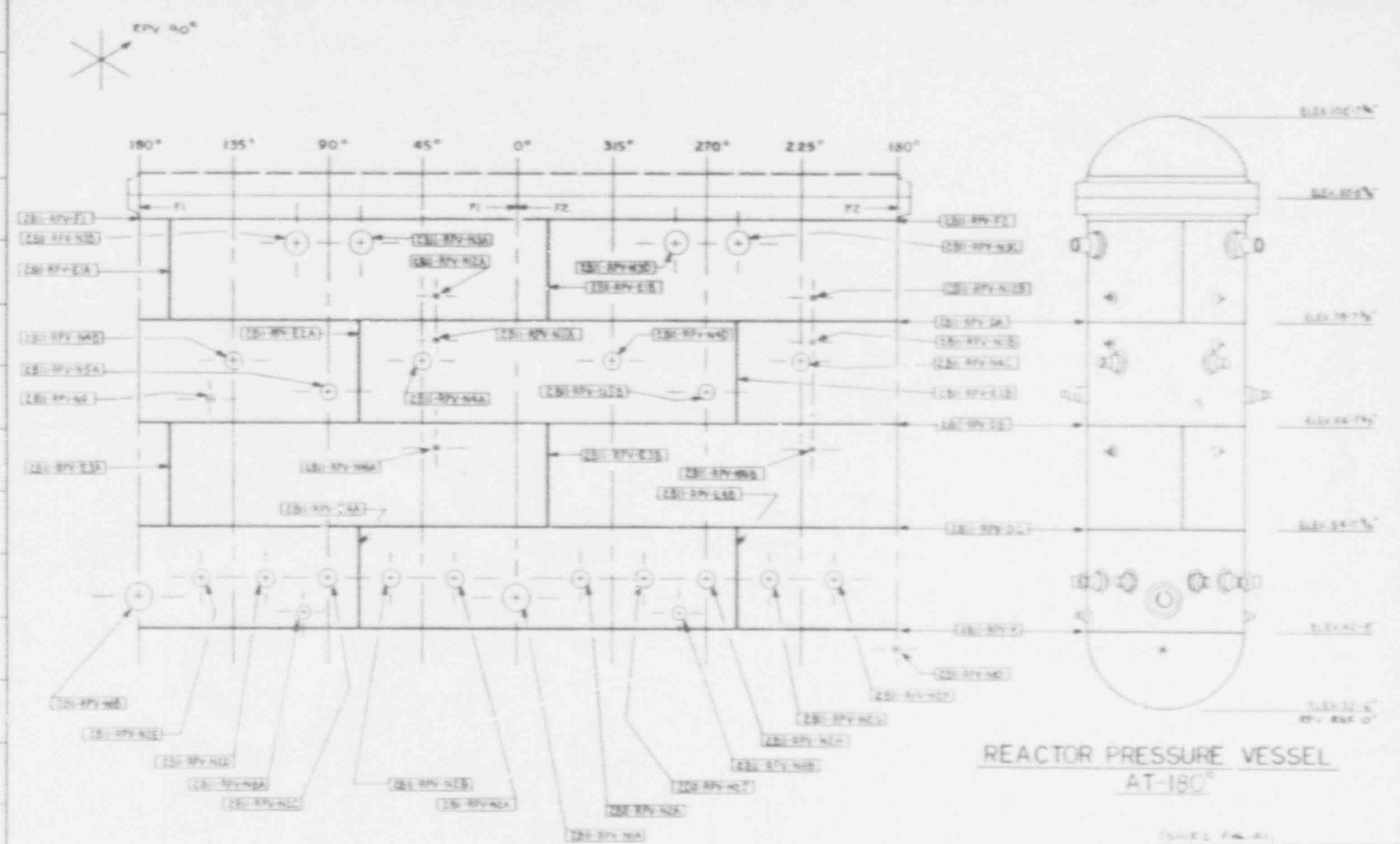
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/13/90 to 11/5/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature] Commissions NC990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 19 92

(12/82)



NOTE: VESSEL INTERNALS ARE DESIGNATED
ZB11-RPV-CORESUPPORT, ZB11-RPV-INBELT,
ZB11-RPV-INTERZONE, ZB11-RPV-INTNONBELT.

NOTE: NOZZLE INNER RADIUS IS DESIGNATED BY
ADDING IRS TO NOZZLE IDENTIFICATION
EX: ZB11-RPV-N-B-IRS

NO	DATE	BY	REVISION

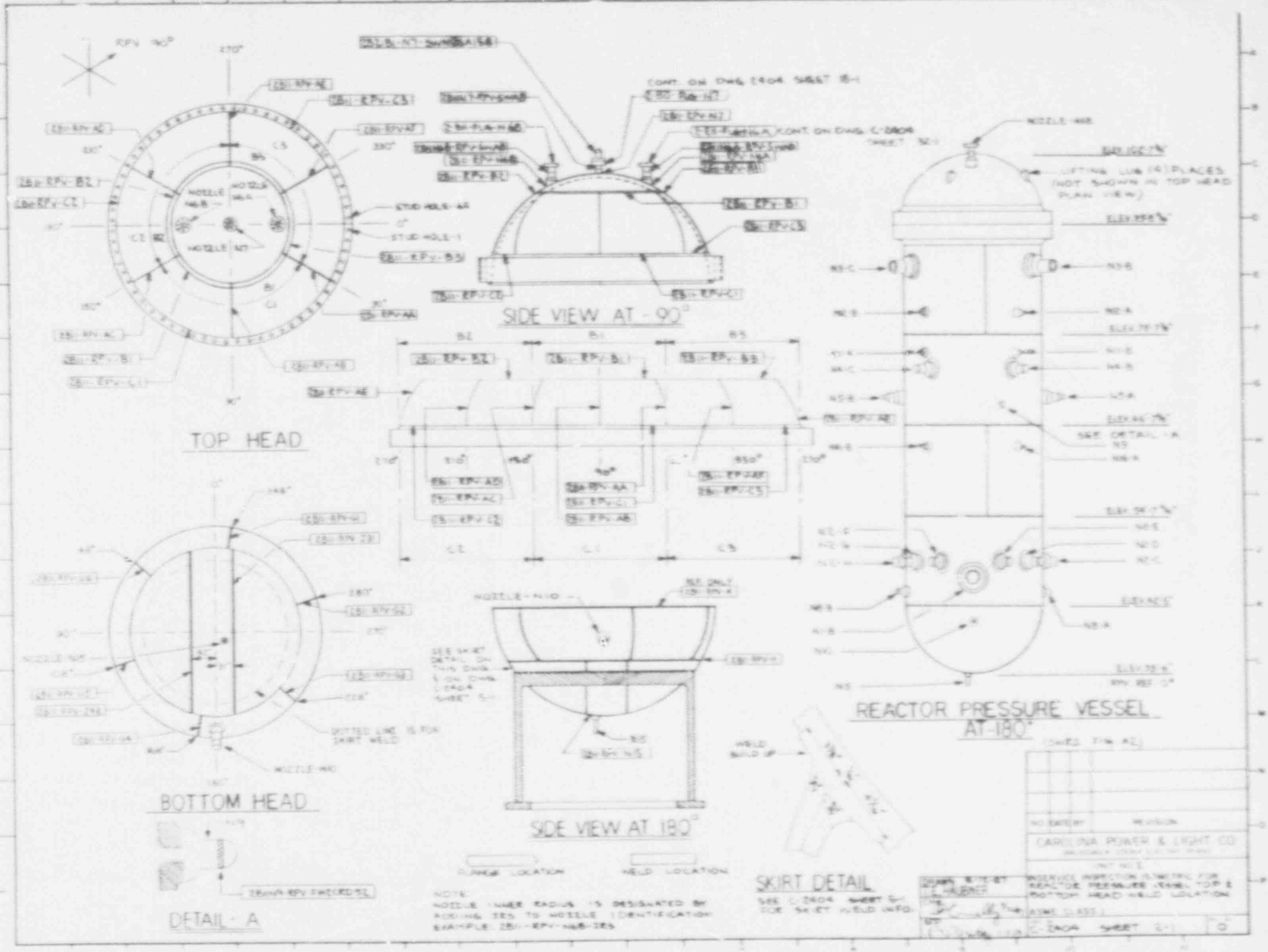
CAROLINA POWER & LIGHT CO

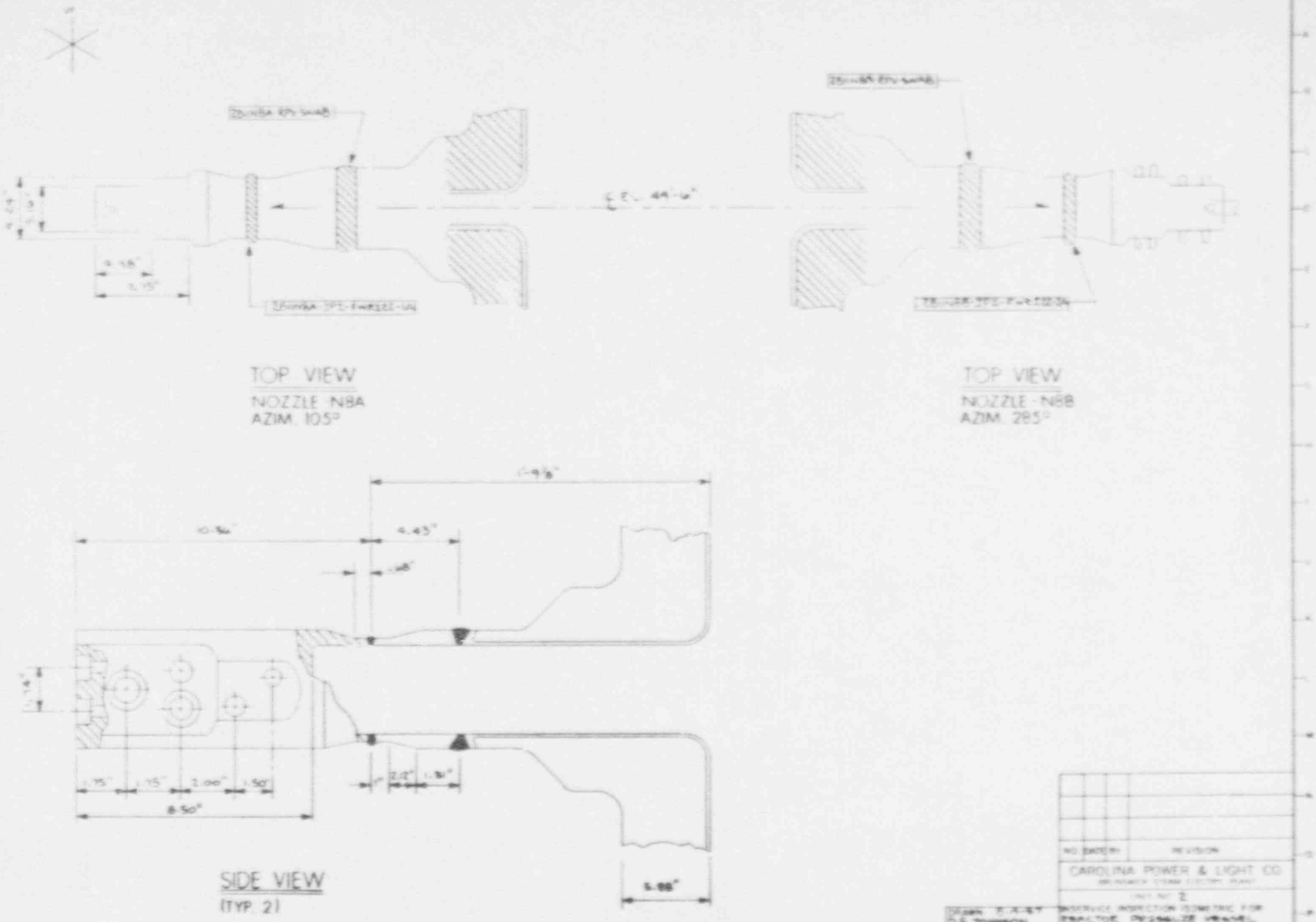
DRAWN: R. E. HAUBNER

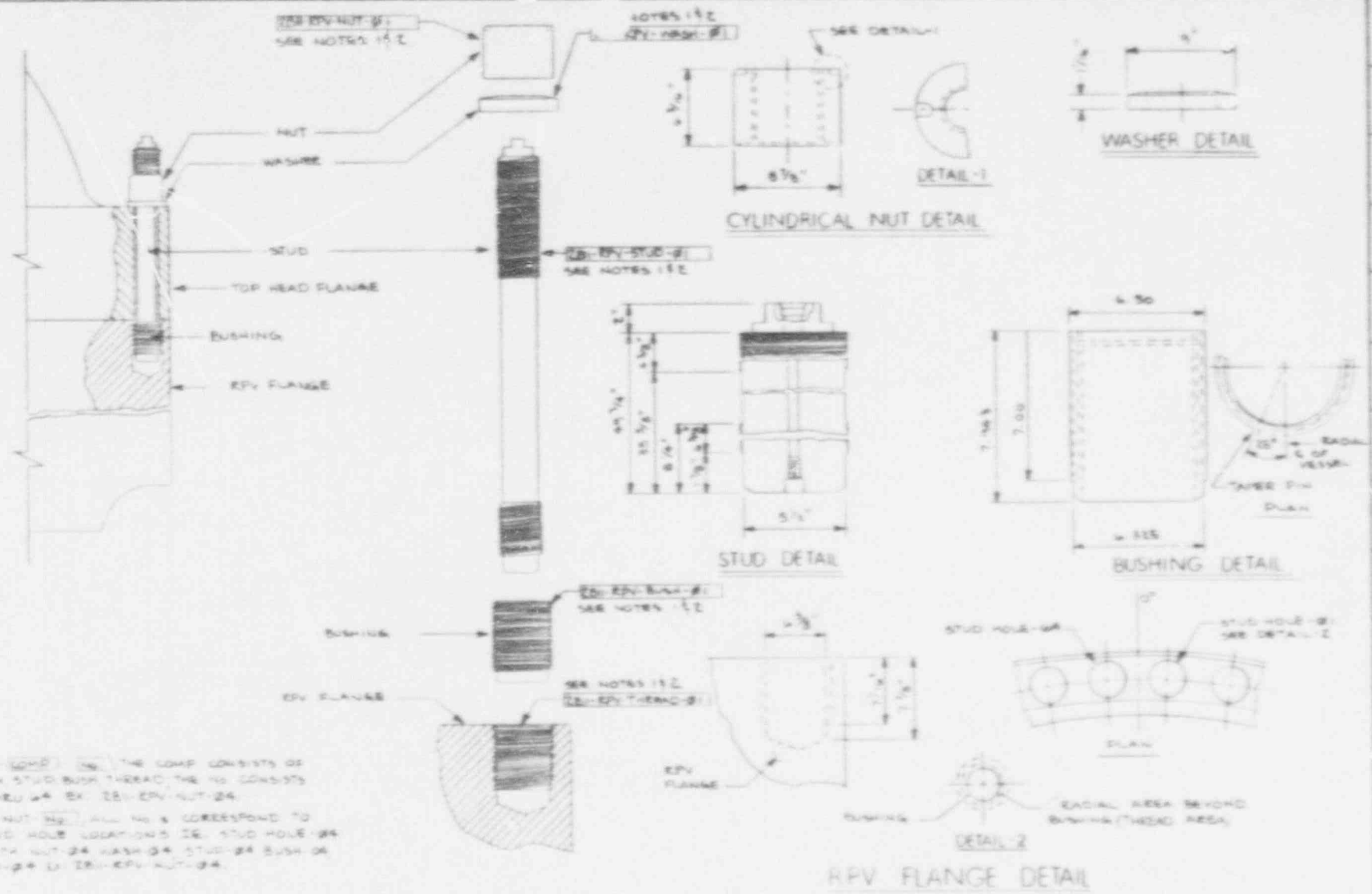
INSERVICE INSPECTION DIMENSIONAL FOR REACTOR PRESSURE VESSEL WELD & NOZZLE LOCATION

ASME CLASS 1

DRAW SHEET 1-1 0


TOP HEAD
SIDE VIEW AT - 90°
REACTOR PRESSURE VESSEL AT-180°
BOTTOM HEAD
SIDE VIEW AT 180°
DETAIL - A
SKIRT DETAIL
CONT. ON DWG. C-2404 SHEET 15-1
CONT. ON DWG. C-2404 SHEET 52-1
LIFTING LUG (4) PLACES (NOT SHOWN IN TOP HEAD PLAN VIEW)
SEE DETAIL - A
DOTTED LINE IS FOR SKIRT WELD
FLANGE LOCATION
WELD LOCATION
NOTE:
NOZZLE INNER RADIUS IS DESIGNATED BY ADDING IRS TO NOZZLE IDENTIFICATION
EXAMPLE: 2B11-RPV-N4B-IRS
SEE C-2404 SHEET 5- FOR SKIRT WELD INFO.
CAROLINA POWER & LIGHT CO
INSERVICE INSPECTION SYMETRY FOR REACTOR PRESSURE VESSEL TOP & BOTTOM HEAD WELD LOCATION
ASME CLASS 1
C-2404 SHEET 2-1
0

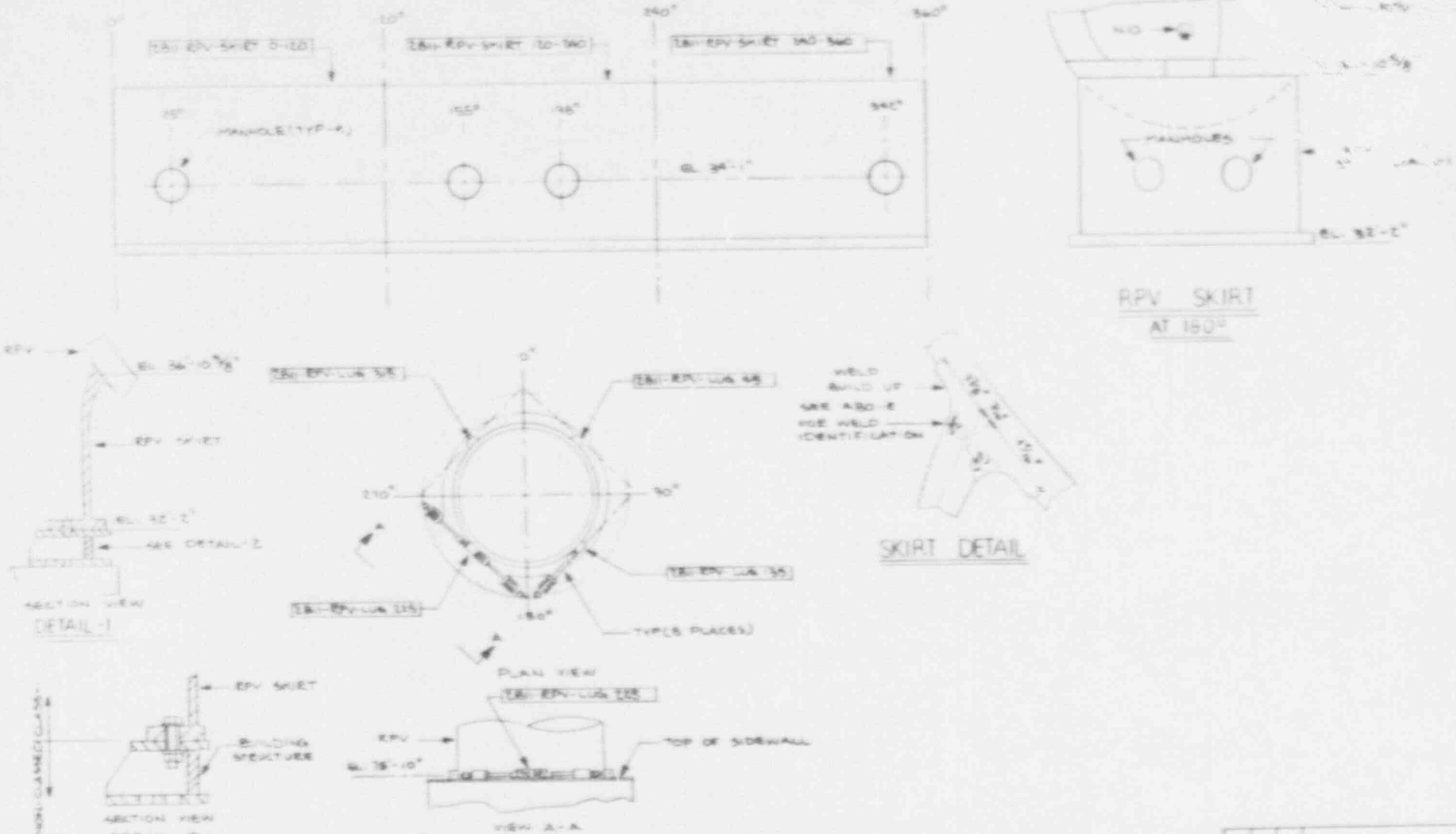

TOP VIEW
NOZZLE N8A
AZIM. 105°
TOP VIEW
NOZZLE N8B
AZIM. 285°
SIDE VIEW
(TYP. 2)
CAROLINA POWER & LIGHT CO.
REACTOR PRESSURE VESSEL
NOZZLE DETAIL
SHEET 3-1



NOTES: 1. [illegible] THE COMP CONSISTS OF NUT, WASH, STUD, BUSH, THREAD. THE NO. CONSISTS OF [illegible] THRU [illegible]. EX. [illegible]-RPV-NUT-[illegible].

2. [illegible]-RPV-NUT-[illegible], ALL NO.'S CORRESPOND TO THE STUD HOLE LOCATIONS. IE. STUD HOLE-[illegible] WORKS WITH NUT-[illegible], WASH-[illegible], STUD-[illegible], BUSH-[illegible], THREAD-[illegible] & [illegible]-RPV-NUT-[illegible].

NO. DATE BY	REVISION
CAROLINA POWER & LIGHT CO.	
DRAWN BY [illegible]	INSERVICE INSPECTION DIMENSIONS FOR RPV FLANGE, BUSHING, STUD, NUT & WASHER DETAIL
ASME CLASS 1	
2 DROP	SHEET 4



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO 2

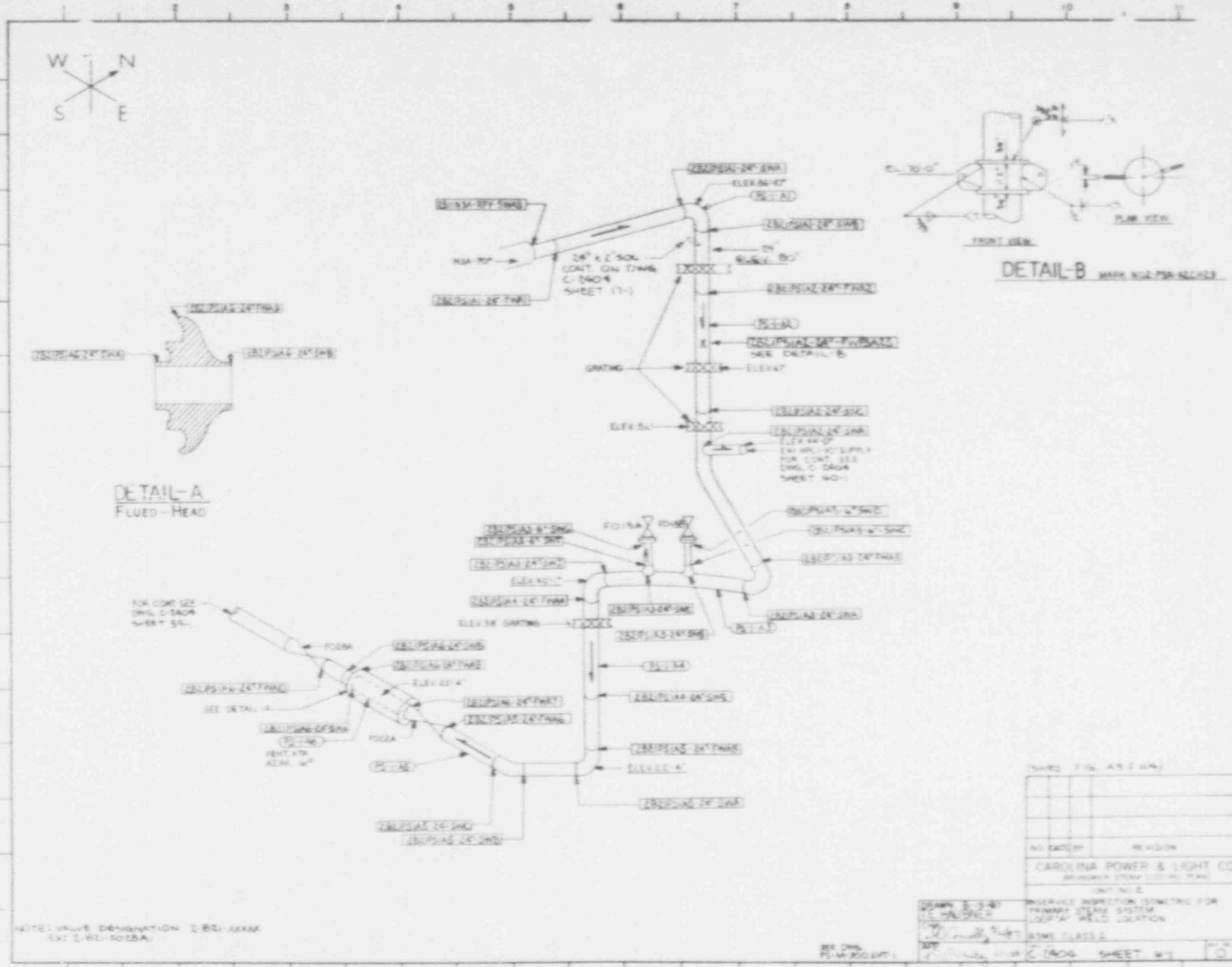
SERVICE INSPECTION ISOMETRIC FOR REACTOR PRESSURE VESSEL WELD & SUPPORT LOCATION

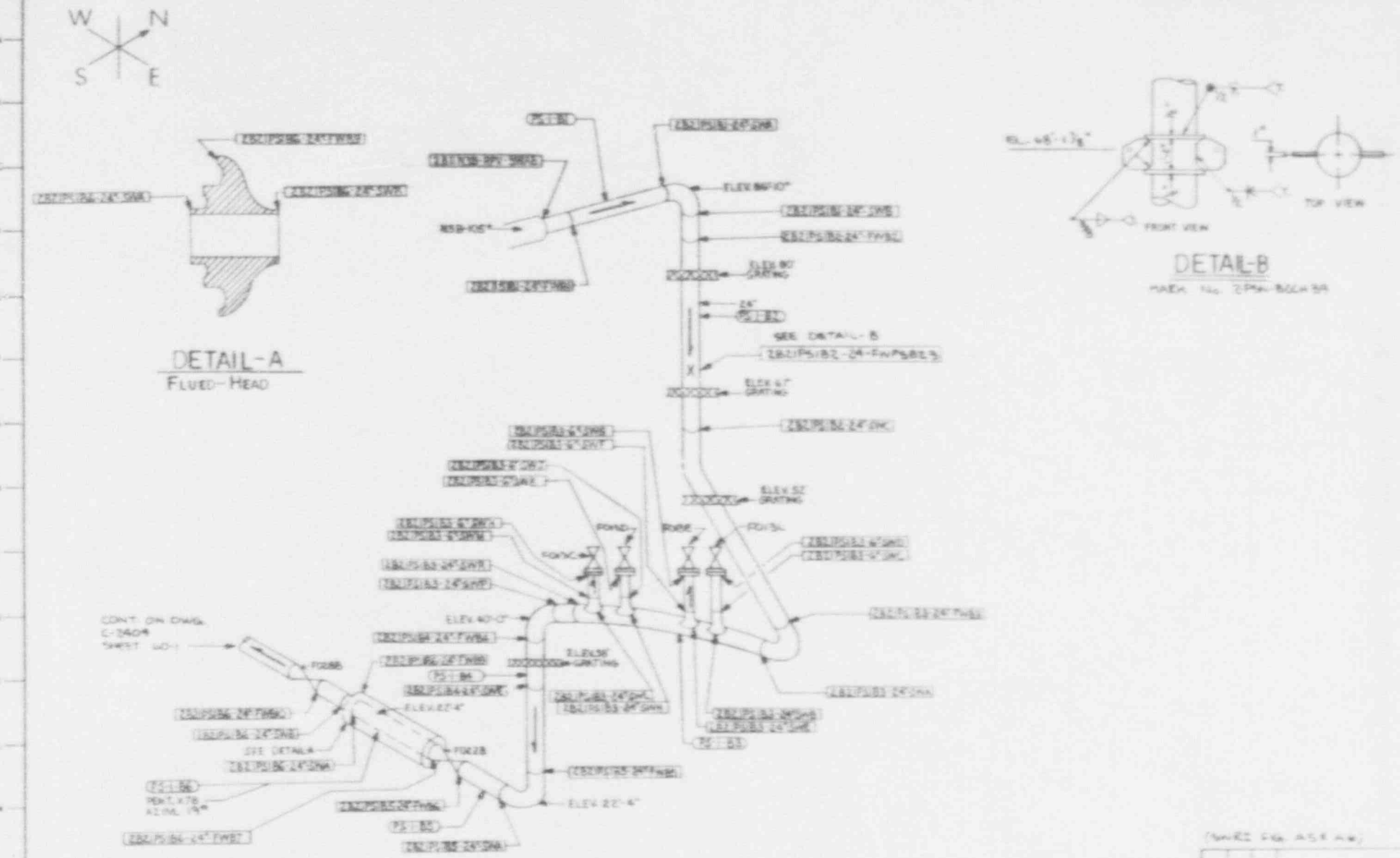
ASME CLASS 1

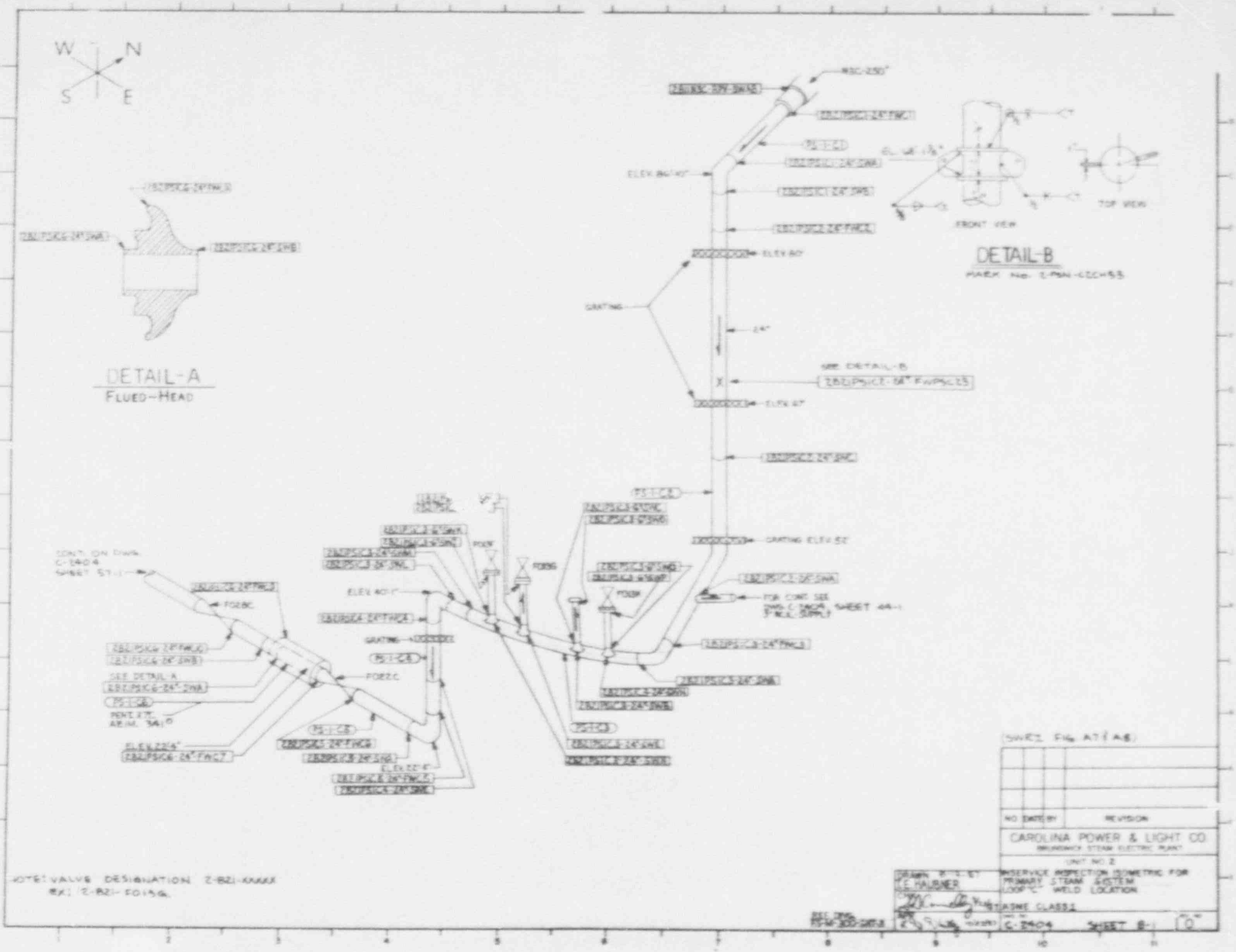
DRAWN 8-2-87 R.E. JOHNSON

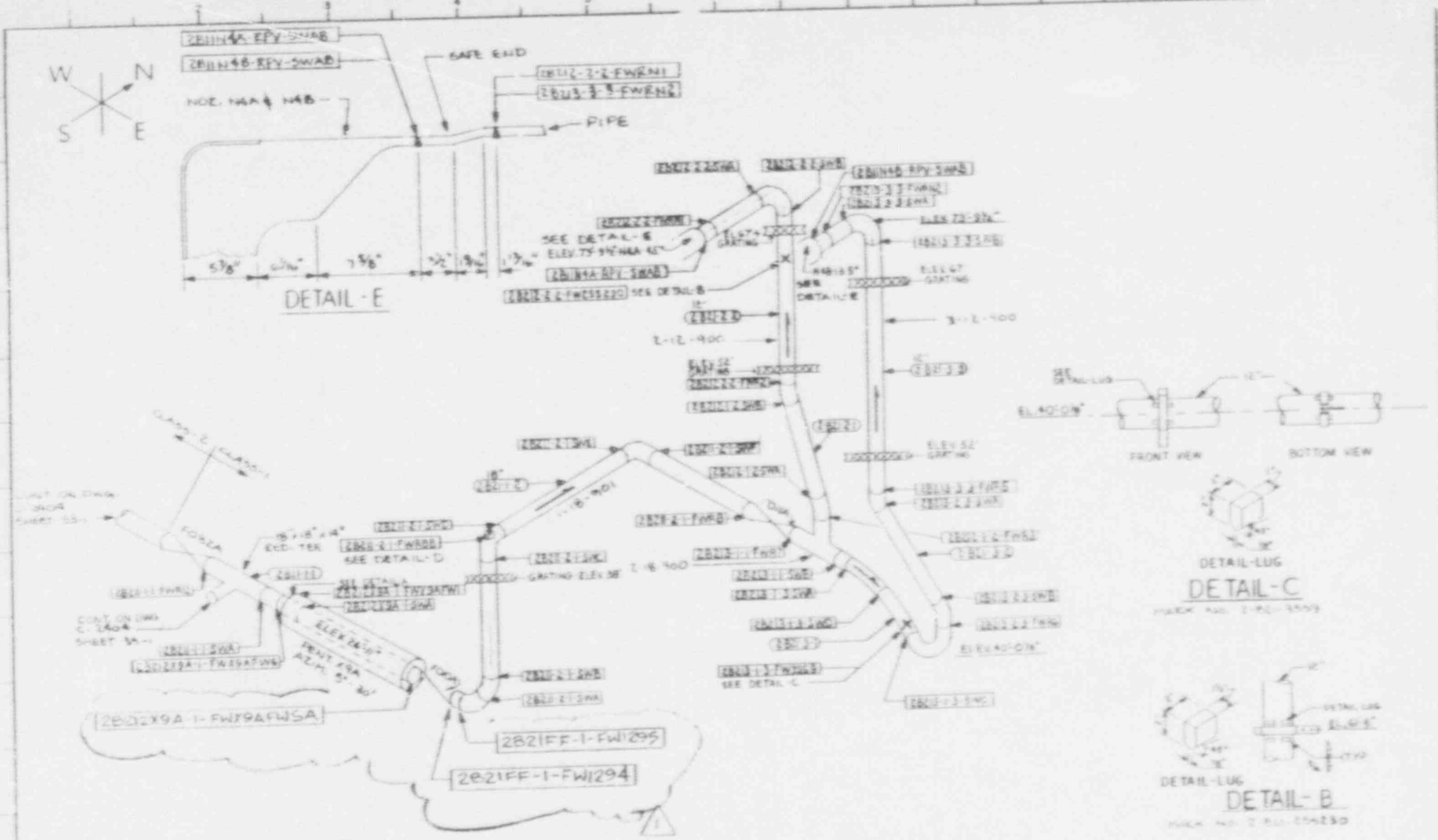
CAROLINA ENGINEERING

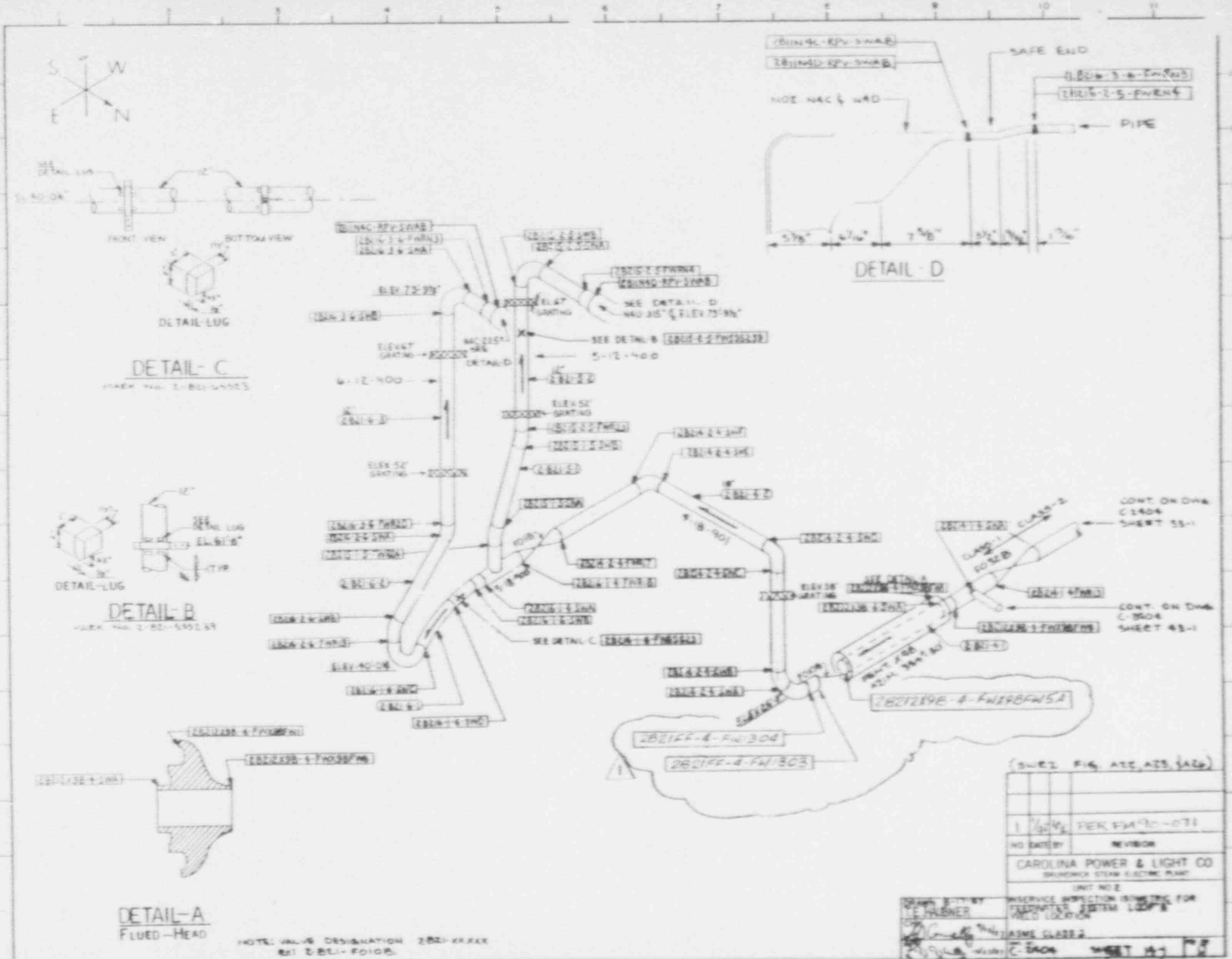
G 2404 SHEET 5-1 0

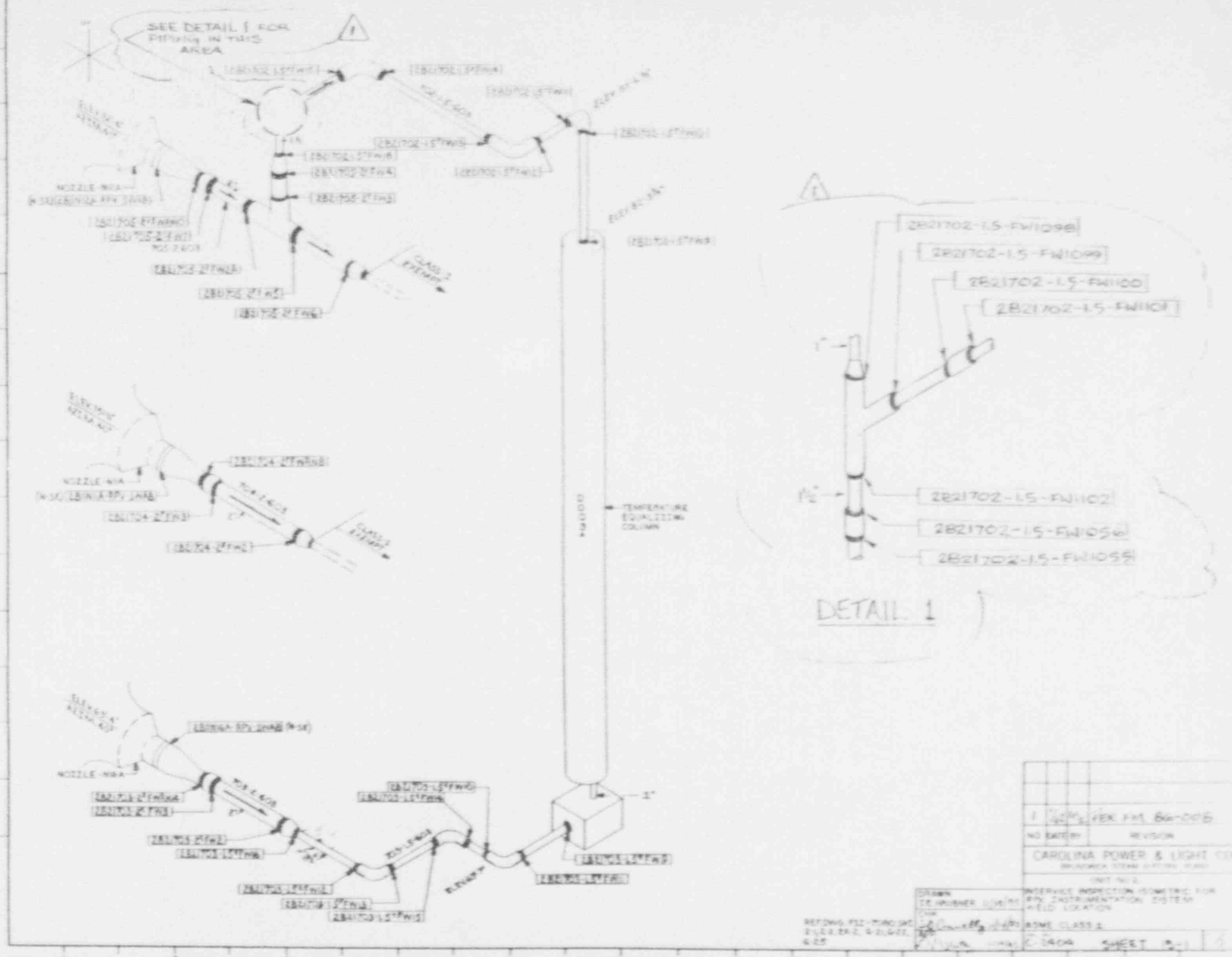

W
N
S
E
DETAIL-A
FLUED-HEAD
DETAIL-B
FRONT VIEW
PLAN VIEW
GRATING
ELEV 67'
ELEV 50'
ELEV 38' GRATING
ELEV 22'-4"
ELEV 12'-4"
SEE DETAIL-A
SEE DETAIL-B
24" x 2" SCH
CONT. ON DWG
C-2404
SHEET 17-1
FOR CONT SEE
DWG. C-2404
SHEET 40-1
FOR CONT SIZE
DWG. C-2404
SHEET 50-1
VENT KTN
AZIM. 90°
NOTE: VALVE DESIGNATION 2-B21-XXXX
EX: 2-B21-F028A.
SHEET 1 OF 1
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
PRIMARY STEAM SYSTEM
LOOP "A" WELD LOCATION
ASME CLASS 2
C-2404 SHEET 1

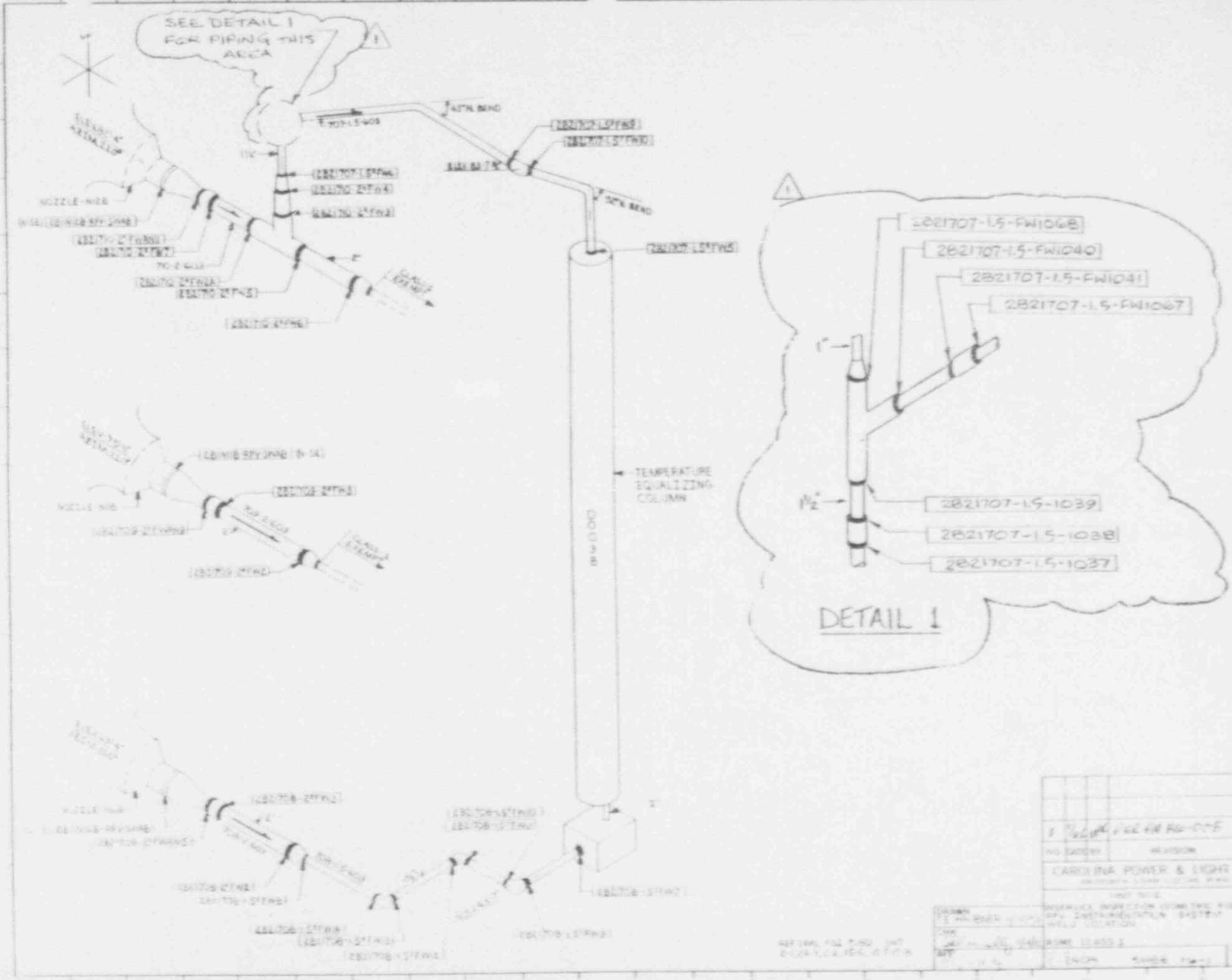

W
N
S
E
DETAIL-A
FLUED-HEAD
DETAIL-B
MARK No. 2PSN-B02A-9A
FRONT VIEW
TOP VIEW
ELEV 80'-0"
ELEV 60' GRATING
ELEV 47' GRATING
ELEV 57' GRATING
ELEV 40'-0"
ELEV 36' GRATING
ELEV 22'-4"
SEE DETAIL-B
CONT. ON DWG. C-2404 SHEET 40-1
SEE DETAIL A
NOTE: VALVE DESIGNATION 2-821-XXXX;
EX: 2-821-F022B
REF DWG. FS-M-800-2411-2
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM LOOP "B" WELD LOCATION
SEISMIC CLASS 1
C-2404
SHEET 7-1

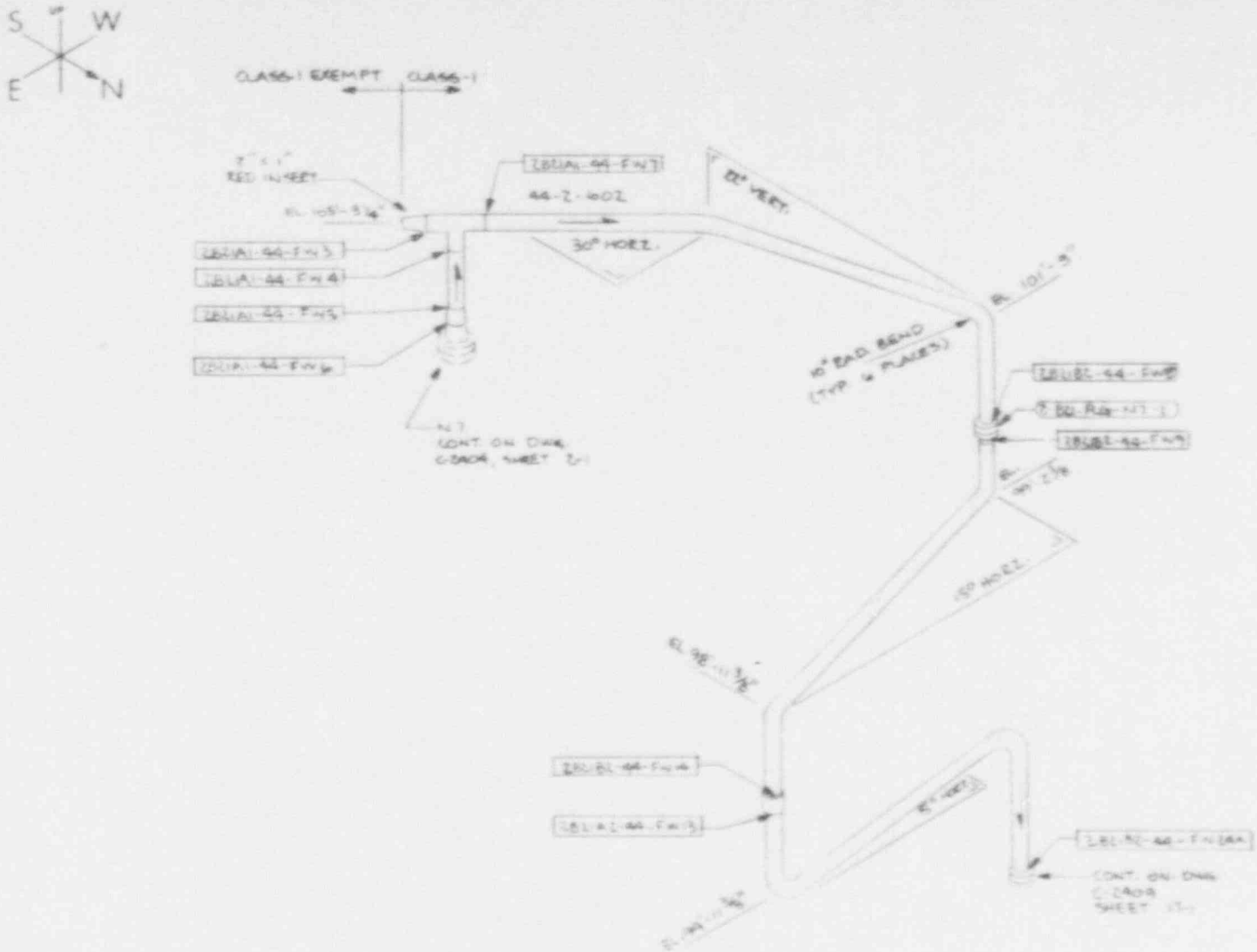

W
N
S
E
DETAIL-A
FLUED-HEAD
DETAIL-B
MARK NO. 2-PSN-C2CH53
FRONT VIEW
TOP VIEW
ELEV 84'-10"
ELEV 80'
GRATING
24"
SEE DETAIL-B
ELEV 67'
GRATING ELEV 52'
CONT. ON DWG. C-2404 SHEET 57-1
SEE DETAIL-A
ELEV 40'-1"
GRATING
ELEV 22'-6"
ELEV 22'-6"
FOR CONT. SEE DWG. C-2404, SHEET 4A-1
NOTE: VALVE DESIGNATION 2-B21-XXXXX
EX: 2-B21-F015G.
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN
H.E. HAUBNER
INSERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM LOOP "C" WELD LOCATION
ASME CLASS 1
C-2404
SHEET 8
0


W
N
S
E
SAFE END
PIPE
DETAIL-E
SEE DETAIL-E
SEE DETAIL-B
SEE DETAIL-D
SEE DETAIL-C
GRATING
2821FF-1-FW1295
2821FF-1-FW1294
DETAIL-A
FLUED-HEAD
DETAIL-D
DETAIL-C
DETAIL-B
FRONT VIEW
BOTTOM VIEW
DETAIL-LUG
CAROLINA POWER & LIGHT CO.
SER 144-80-071
REVISION
C 2404


DETAIL-C
DETAIL-B
DETAIL-A
FLUED-HEAD
DETAIL-D
SAFE END
PIPE
NOTE: VALVE DESIGNATION 2BZ1-XXXX
BY 2-BZ1-F010B
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2
ASME CLASS 2
C-2404
SHEET 1A-1


SEE DETAIL 1 FOR PIPING IN THIS AREA
NOZZLE-N1A
CLASS 2 EXTENT
TEMPERATURE EQUALIZING COLUMN
2B21702-1.5-FW1098
2B21702-1.5-FW1099
2B21702-1.5-FW1100
2B21702-1.5-FW1101
2B21702-1.5-FW1102
2B21702-1.5-FW1056
2B21702-1.5-FW1055
DETAIL 1
CAROLINA POWER & LIGHT CO
ASME CLASS 2
SHEET

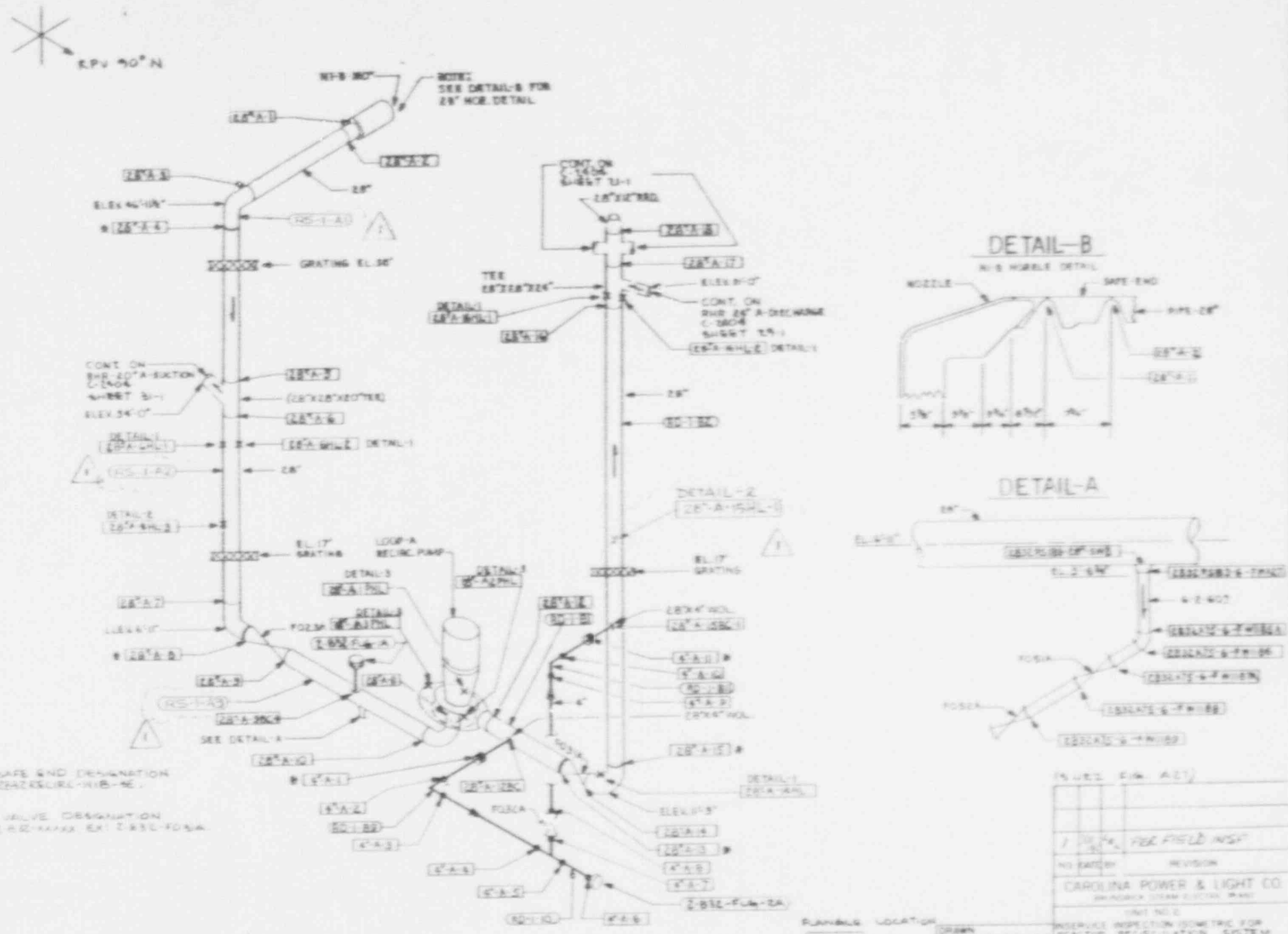

SEE DETAIL 1 FOR PIPING THIS AREA
45° BEND
90° BEND
TEMPERATURE EQUALIZING COLUMN
NOZZLE-N128
2821707-1.5-FW1068
2821707-1.5-FW1040
2821707-1.5-FW1041
2821707-1.5-FW1067
2821707-1.5-1039
2821707-1.5-1038
2821707-1.5-1037
DETAIL 1
CAROLINA POWER & LIGHT CO

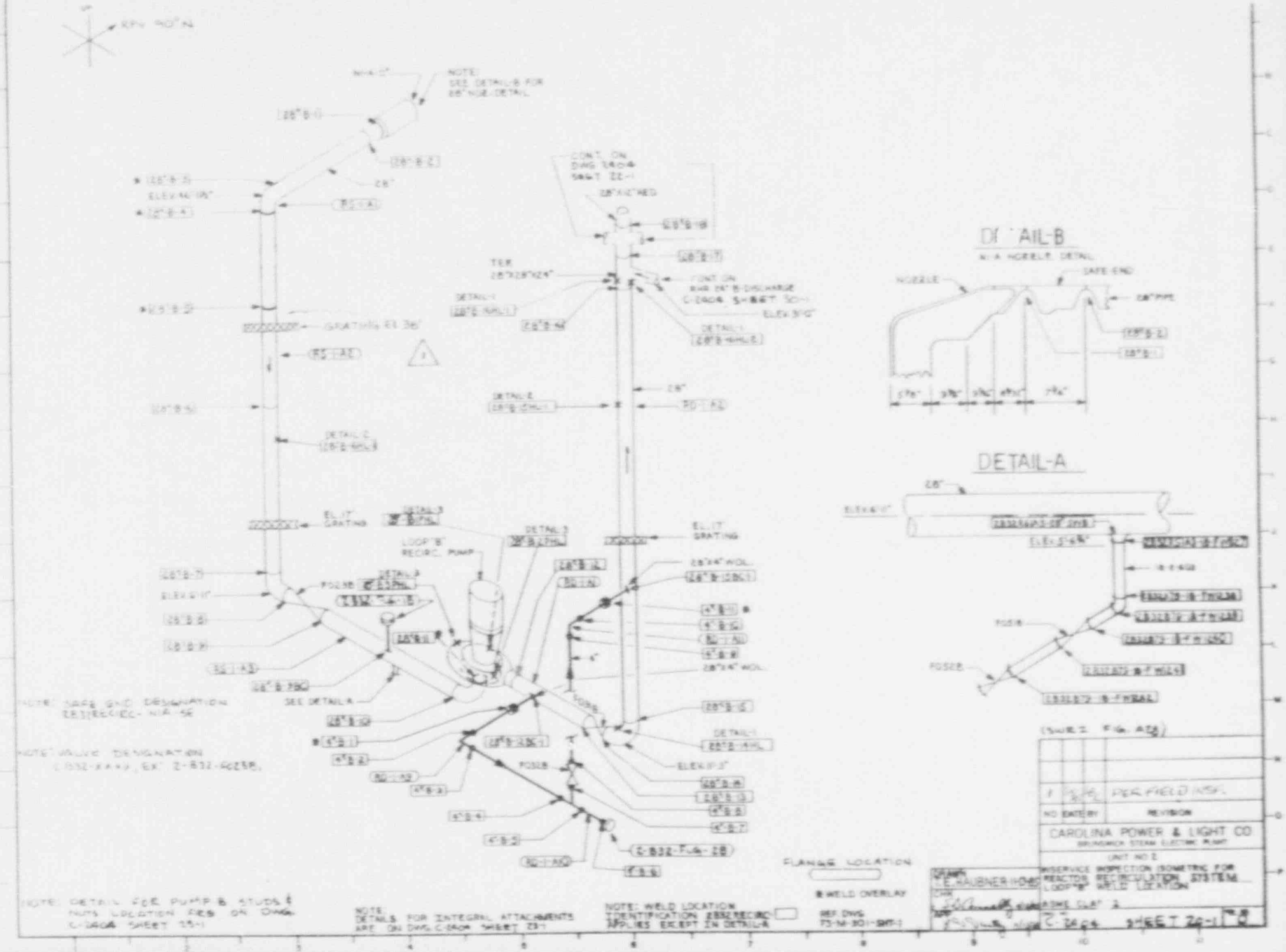


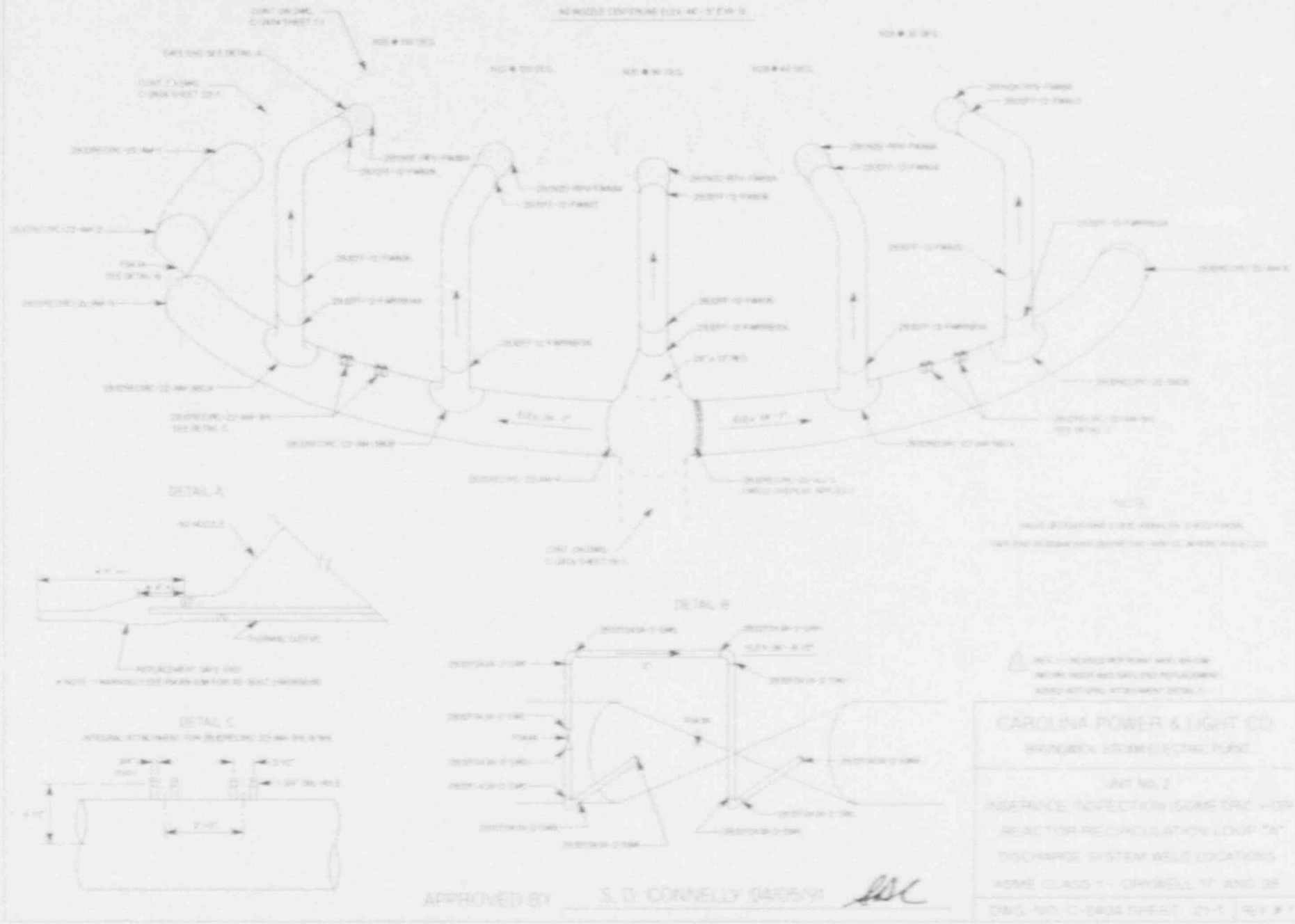
RANGE LOCATIONS

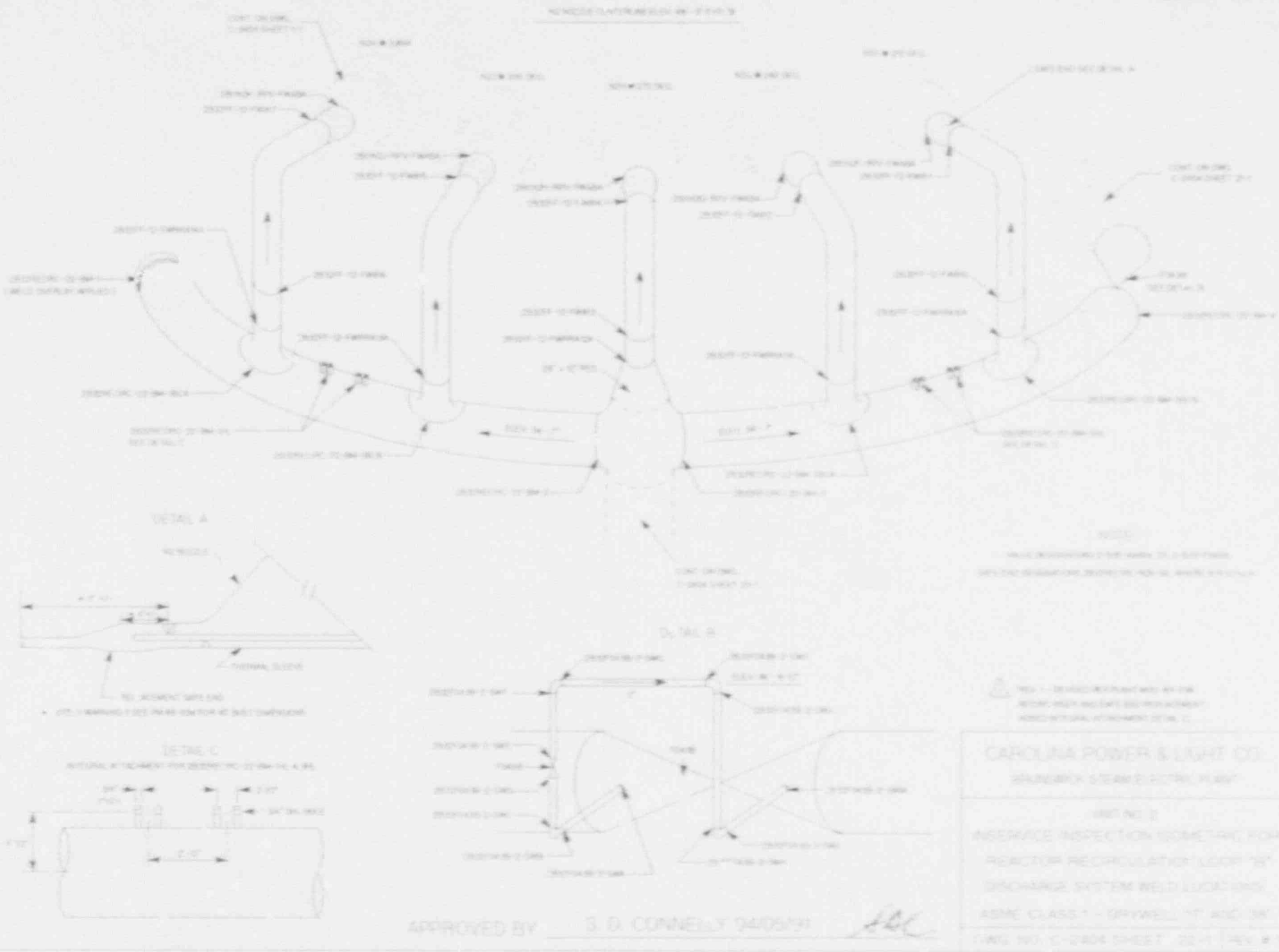
WELD LOCATION

NO. DATE BY	REVISION
CAROLINA POWER & LIGHT CO.	
DRAWN D.A.B. DATE 5-1-81	INSERVICE INSPECTION DIAGRAM FOR PRIMARY STEAM SYSTEM WELD LOCATION
D.E. JOHNSON	ASME CLASS 1
C-2404 SHEET 2-1	C

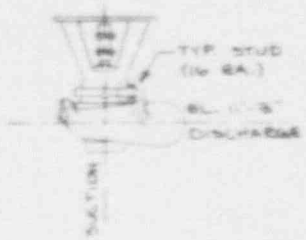

RPV 90° N
NOTE: SEE DETAIL-B FOR 28" NOZ. DETAIL
GRATING EL 36'
CONT. ON RHR 20" A-SUCTION C-1404 SHEET 21-1
ELEV 34'-0"
DETAIL-1
DETAIL-2
EL 17' GRATING
LOOP-A RECIRC PUMP
DETAIL-3
SEE DETAIL-A
TEE
CONT. ON RHR 28" A-DISCHARGE C-1404 SHEET 29-1
DETAIL-2
28"-A-15HL-B
ELEV 1'-3"
FOSCA
DETAIL-B
NOZZLE
SAFE END
PIPE-28"
DETAIL-A
NOTE: SAFE END DESIGNATION
NOTE: VALVE DESIGNATION
NOTE: DETAIL FOR PUMP A STUDS & NUTS LOCATION ARE ON DWG. 2404 SHEET 25-1.
NOTE: DETAILS FOR INTEGRAL ATTACHMENTS ARE ON DWG. C-2404 SHEET 23-1
NOTE: WELD LOCATION IDENTIFICATION 28SERECIRC APPLIES EXCEPT IN DETAIL-A.
PLANNING LOCATION
WELD OVERLAY
REF DWG. PS-M-102 (SHT)
FOR FIELD INST
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION SYSTEM LOOP "A" WELD LOCATION
CODE CLASS 1
T.E. HAUBENHOFER
C-2404
SHEET 19-1


RPV 90° N
NOTE: SEE DETAIL-B FOR 28" NOZ. DETAIL
CONT. ON DWG 2404 SHEET 22-1
GRATING EL 36'
EL 17' GRATING
LOOP "B" RECIRC. PUMP
SEE DETAIL-A
NOTE: PIPE & SYS. DESIGNATION 28"/RECIRC- N1A-56
NOTE: VALVE DESIGNATION C-832-XXXX, EX: 2-832-A028B.
NOTE: DETAIL FOR PUMP B STUDS & NUTS LOCATION REF. ON DWG. C-2404 SHEET 23-1
NOTE: DETAILS FOR INTEGRAL ATTACHMENTS ARE ON DWG. C-2404 SHEET 23-1
NOTE: WELD LOCATION IDENTIFICATION ⊠/RECIRC. APPLIES EXCEPT IN DETAIL-A
FLANGE LOCATION
B-WELD OVERLAY
REF. DWG. 73-N-301-SHT-1
DETAIL-B
N/A NOZZLE DETAIL
NOZZLE
SAFE END
DETAIL-A
(SHEET 2 FIG. A28)
1 PER FIELD INSP.
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION SYSTEM LOOP "B" WELD LOCATION
DRAWN T.E. HAUBNER-HOWE
CHK'D
APPROVED
BRANCH CLASS 2
C-2404 SHEET 24-1


DETAIL A
DETAIL B
DETAIL C
NOTE:
APPROVED BY
S. D. CONNELLY
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
INC NO. 2
REACTOR RECIRCULATION LOOP "B"
DISCHARGE SYSTEM WELD LOCATIONS
ASME CLASS 1 - DRYWELL 17 AND 18


DETAIL A
DETAIL B
DETAIL C
APPROVED BY
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
ASSEMBLY INSPECTION ISOMETRIC FOR
REACTOR RECIRCULATION LOOP "B"
DISCHARGE SYSTEM WELD LOCATIONS
ASME CLASS 1 - DRYWELL "T" AND "W"

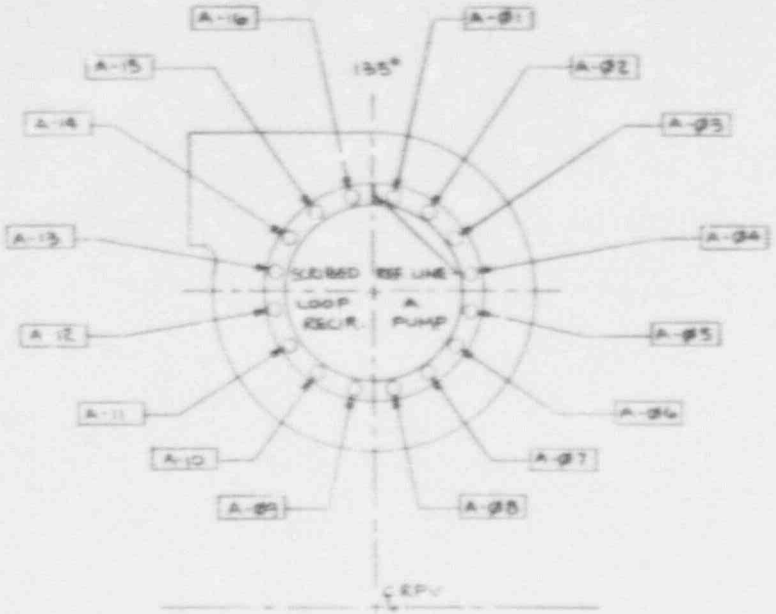
PLAN VIEW

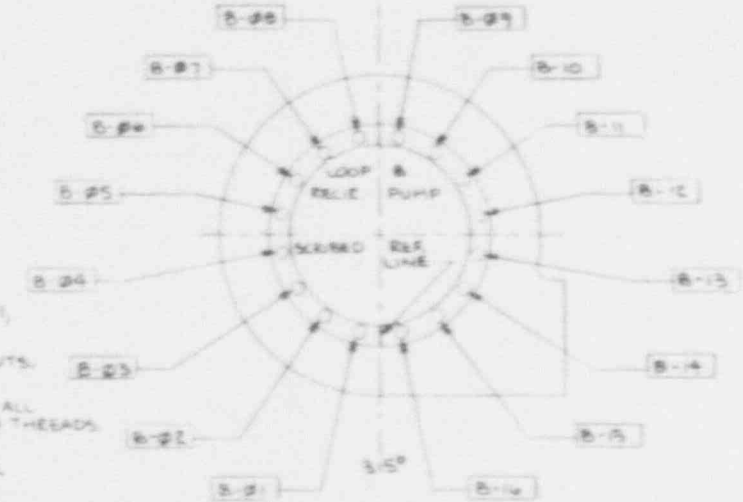


SIDE VIEW

DETAIL - 2

(TYP.)





DETAIL - 1

NOTES:

SUB32-ST-[ ]: THE STUDS ARE LISTED INDIVIDUALLY EX. 2832-ST-A-01, 2832-ST-B-01.

STEAM-NT-A-(1-16) 2832-NT-B-(1-16): IDENTIFIES ALL NUTS.

STB32-PUMP A-FLG SURFACE 2832-PUMP B-FLG SURFACE: IDENTIFIES ALL LIGAMENTS & THREADS.

RECIRC-RECIRC-2B-APUMP 2832-RECIRC-2B-BPUMP: PUMP INTERNAL SURFACES.

NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO

BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2

DRAWN 8-3-87 D.E. JOHNSON

INSERVICE INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION LOOP A & B PUMPS, STUDS & NUTS

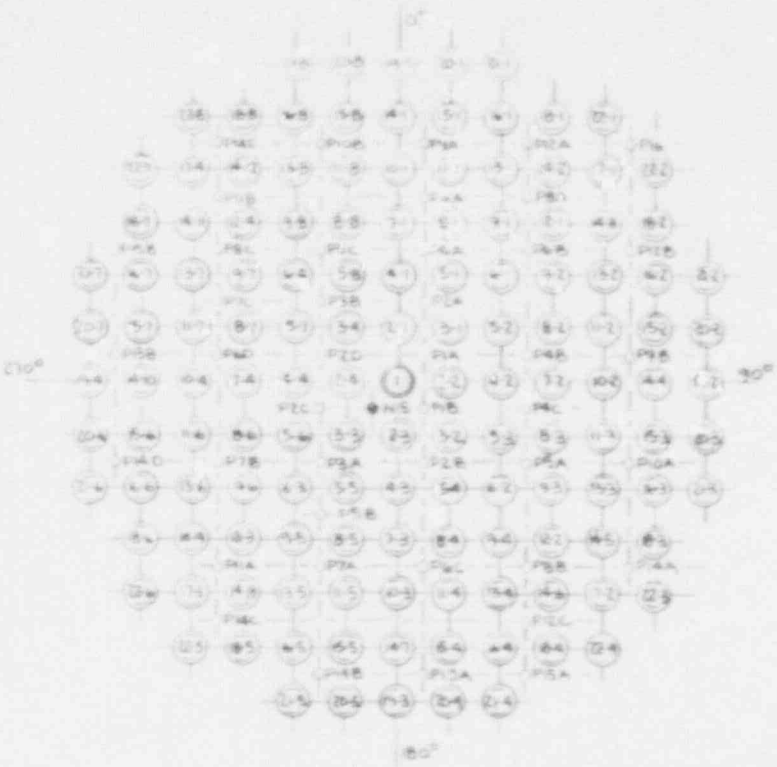
LOCATION

SYSTEM CLASS 1

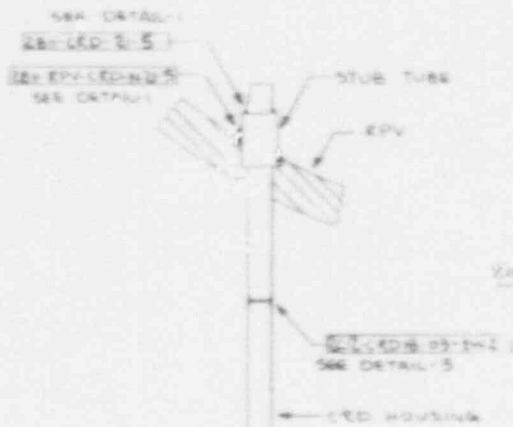
SCALE NONE

SHEET 25-1

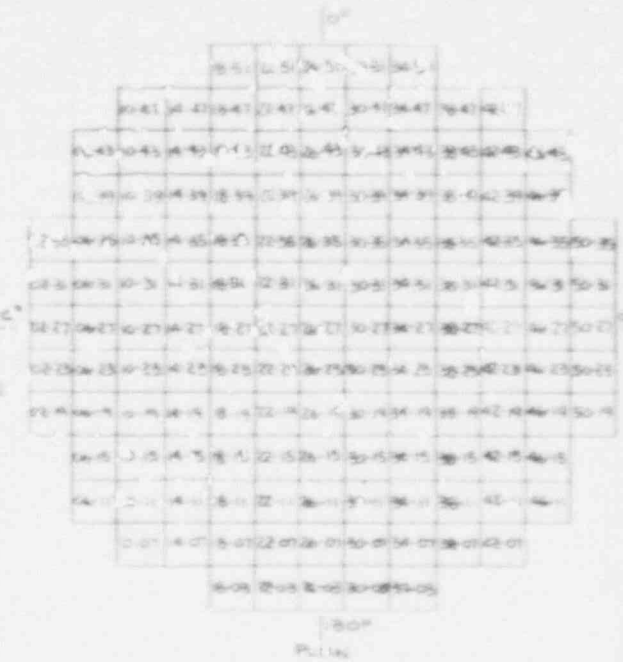
0



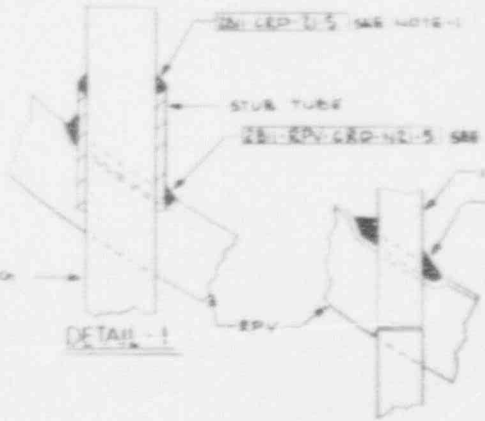
CRD & IN CORE PENETRATIONS



CRD ASSY

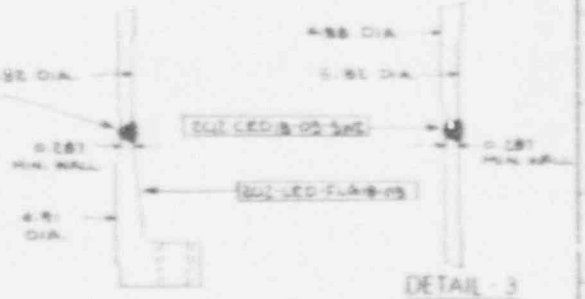


CORE ARRANGEMENT
CONTROL CELLS



DETAIL-1

DETAIL-2



DETAIL-4

DETAIL-3

NOTES:

1. 2B11-CRD-[ ], 2B11-RPV-CRD-N[ ], 2B11-RPV-INCORE-[ ] PMA
THESE NO'S [ ], [ ] COME FROM THE CRD & IN CORE PENET. DWG. ABOVE LEFT EX: 2B11-CRD-2-4, 2B11-RPV-CRD-N2-4, 2B11-RPV-INCORE-PMA.

2. 2C12-CRD[ ]-SW1, 2C12-CRD[ ]-SW2, 2-C12-FLG-[ ]
THESE NO'S [ ] COME FROM THE CORE ARRANGEMENT DWG. ABOVE RIGHT EX: 2C12-CRD34-03-SW1, 2C12-CRD34-03-SW2, 2-C12-FLG-34-03.

NO.	DATE	BY	REVISION

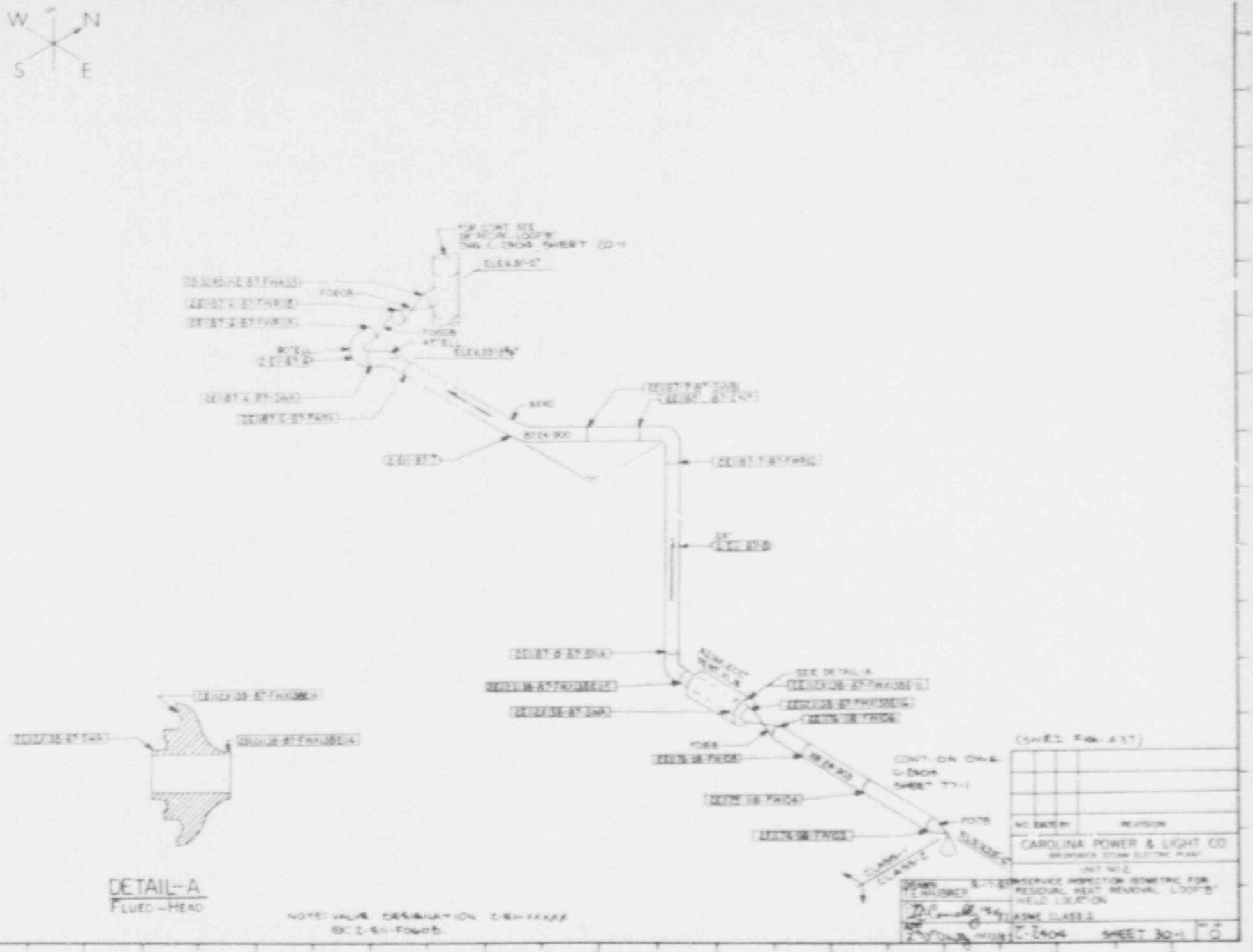
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

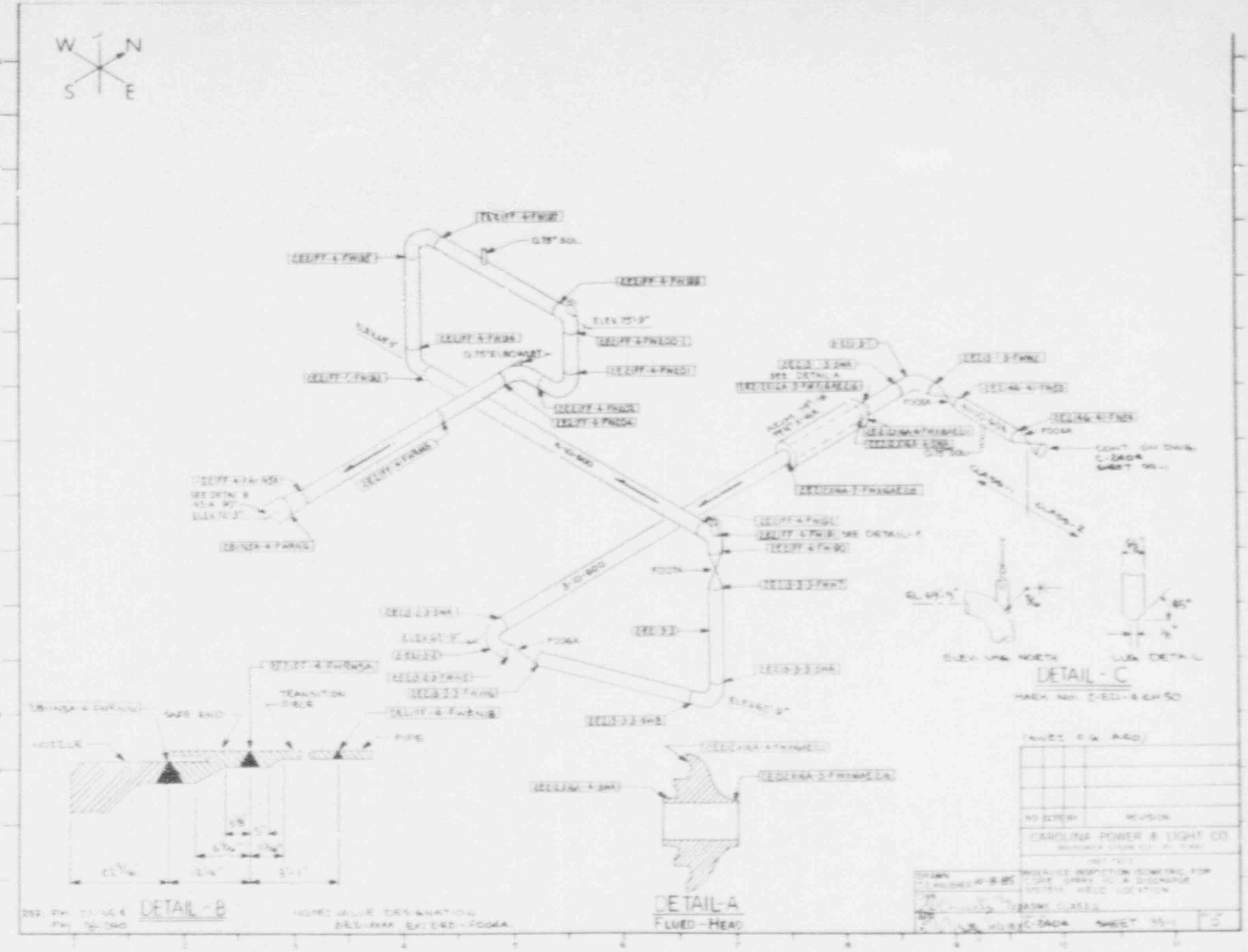
DRAWN BY: D.E. JOHNSON

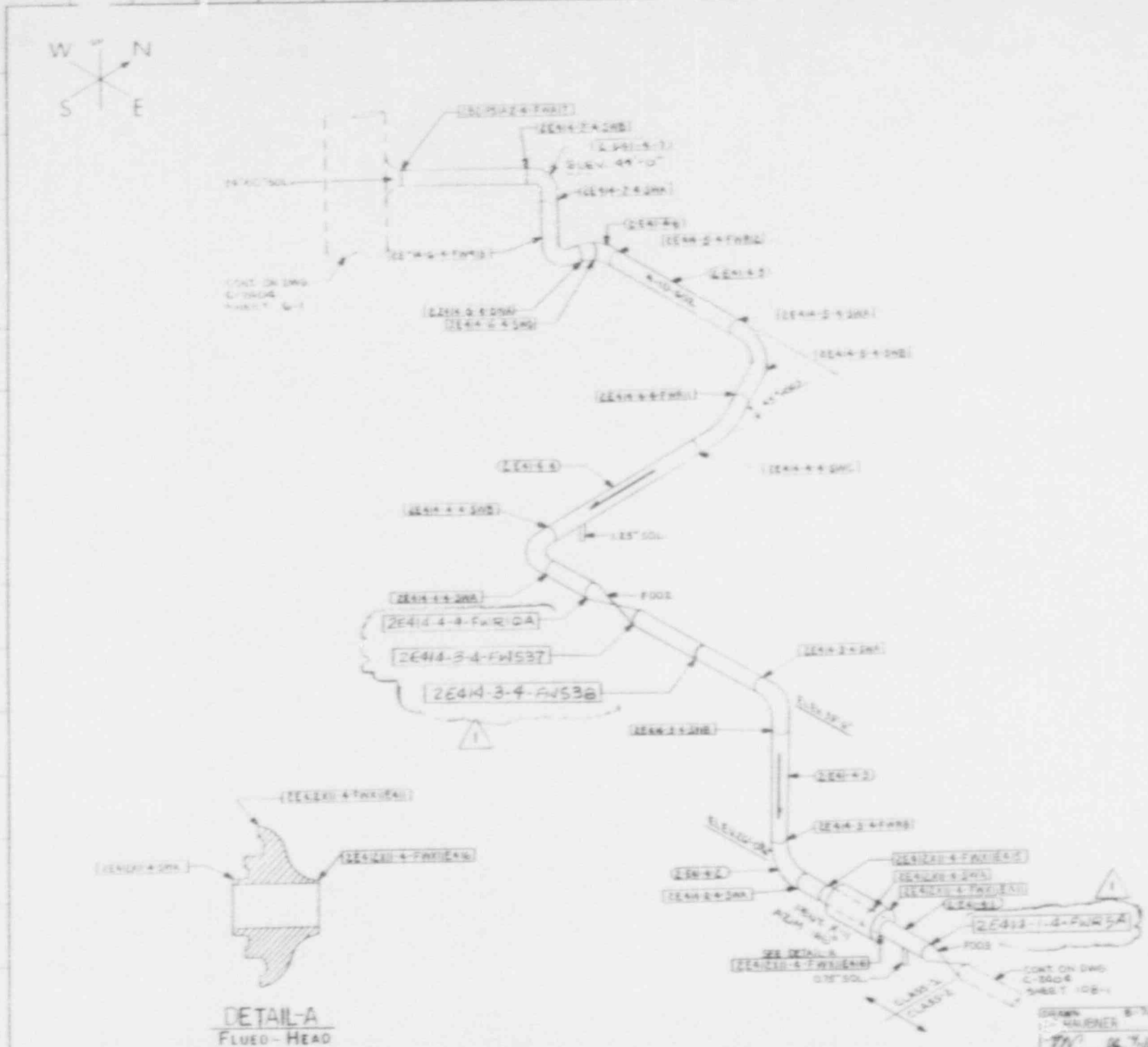
INSERVICE INSPECTION ISOMETRIC FOR CONTROL ROD DRIVE & IN CORE ARRANGEMENT & WELD LOCATION

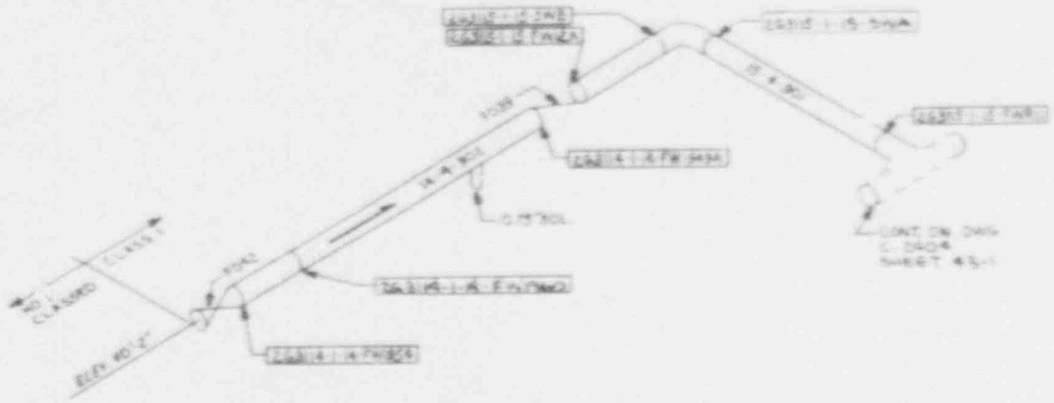
SEISMIC CLASS I

C-2404 SHEET 2A-1 0


W
N
S
E
FOR CONT SEE "RESIDUAL HEAT REMOVAL LOOP B" DWG. C-2604 SHEET 20-1
ELEV. 30'-0"
FOR CONT SEE DWG. C-2604 SHEET 77-1
DETAIL-A
FLUED-HEAD
NOTE: VALVE DESIGNATION C-61-XXXX
EX: 2-61-F060B
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP B WELD LOCATION
ASME CLASS 2
C-2604
SHEET 30-1


W
N
S
E
DETAIL - B
DETAIL - A
FLUED - HEAD
DETAIL - C
CAROLINA POWER & LIGHT CO.


W
N
S
E
ELEV. 44'-0"
CONT. ON DWG. C-2404 SHEET 40-1
2E41-4-4-FW537
2E41-3-4-FW538
FOO2
DETAIL-A
FLUED-HEAD
NOTE: VALVE DESIGNATION 2-E41-XXXX
EX: 2-E41-F002
CONT. ON DWG C-2404 SHEET 10B-1
CLASS 1
CLASS 2
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION DIAGRAMS FOR HIGH PRESSURE COOLANT INJECTION (HPCI) SUPPLY SYSTEM WELD LOCATION
ASME CLASS 2
C-2404 SHEET 40-1



REF DWG 84-306

NOTE: VALVE DESIGNATION 2-831-XXXX,
EX: 2-831-0039.

(SHEET 4 OF 4A7)

NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO 2

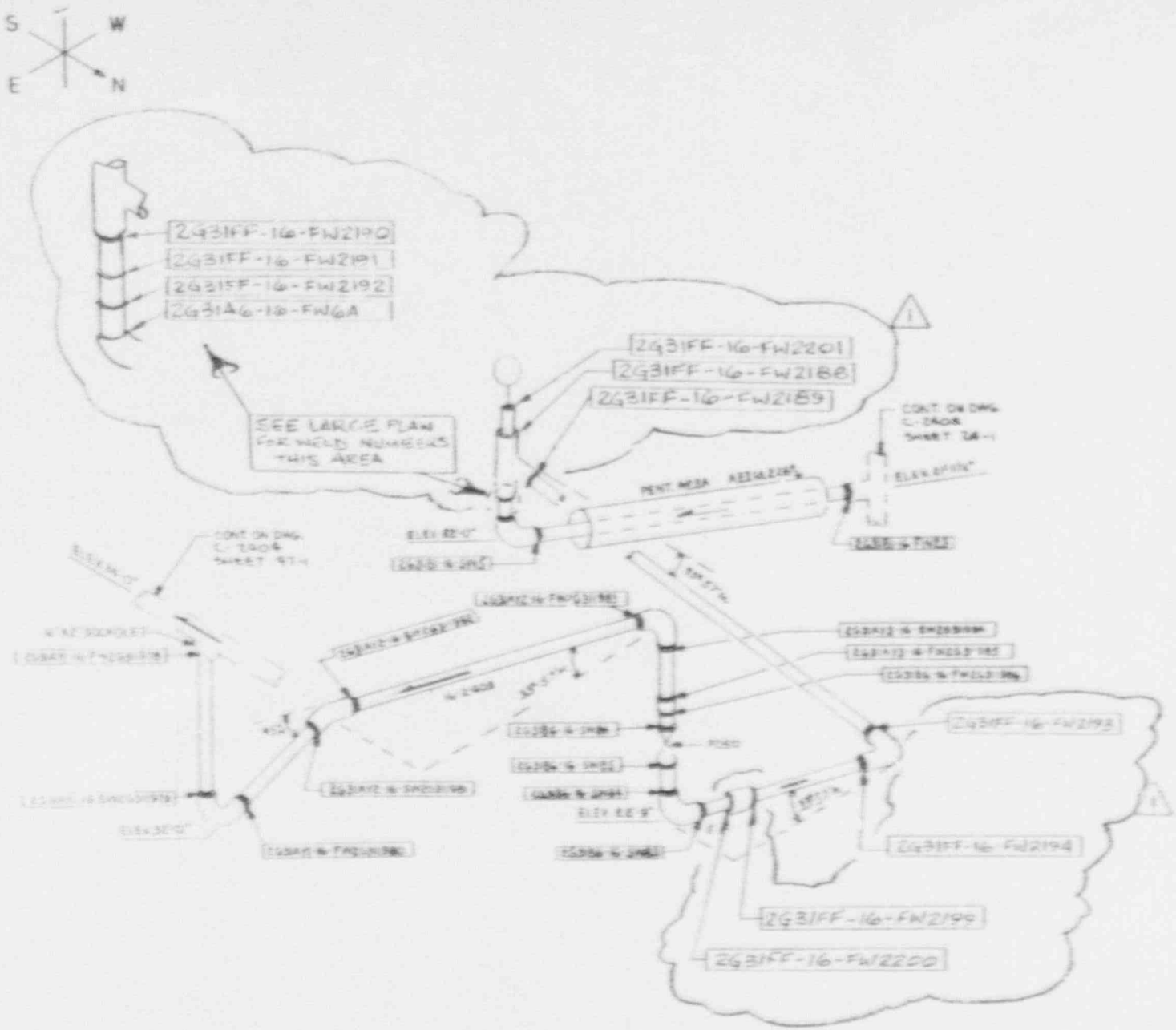
DRAWN T.C. HAUSNER

INSERVICE INSPECTION ISOMETRIC FOR REACTOR BUILDING WATER CLEAN UP (EXTERNAL) SYSTEM WELD LOCATION

ASME CLASS

2AC4 SHEET 4B-1

REV 0



NOTE: VALVE DESIGNATION 2-1631-XXXX, CH. 2-1631-F0700

NO	DATE	BY	REVISION
1	4/92		FEK 4-91-045

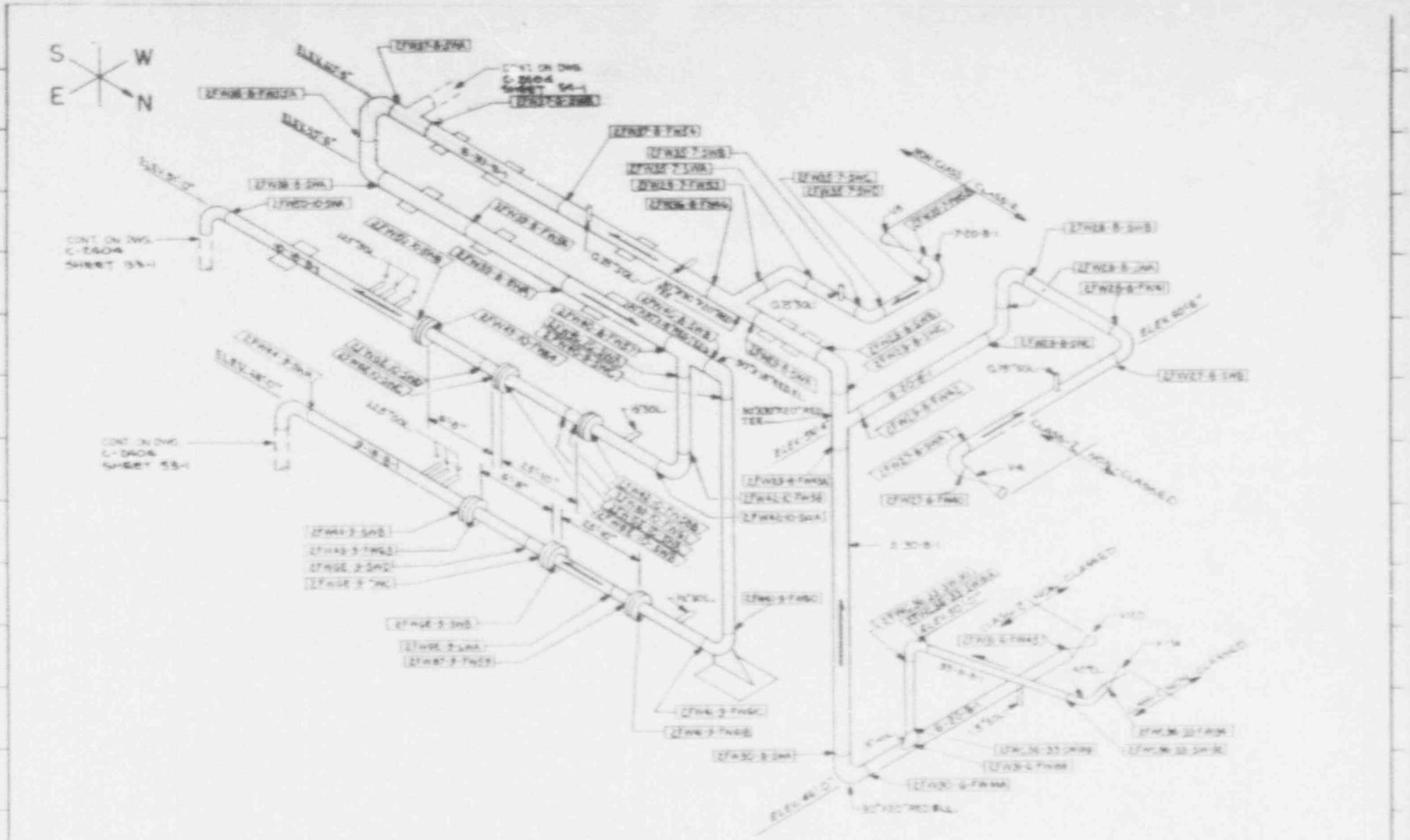
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

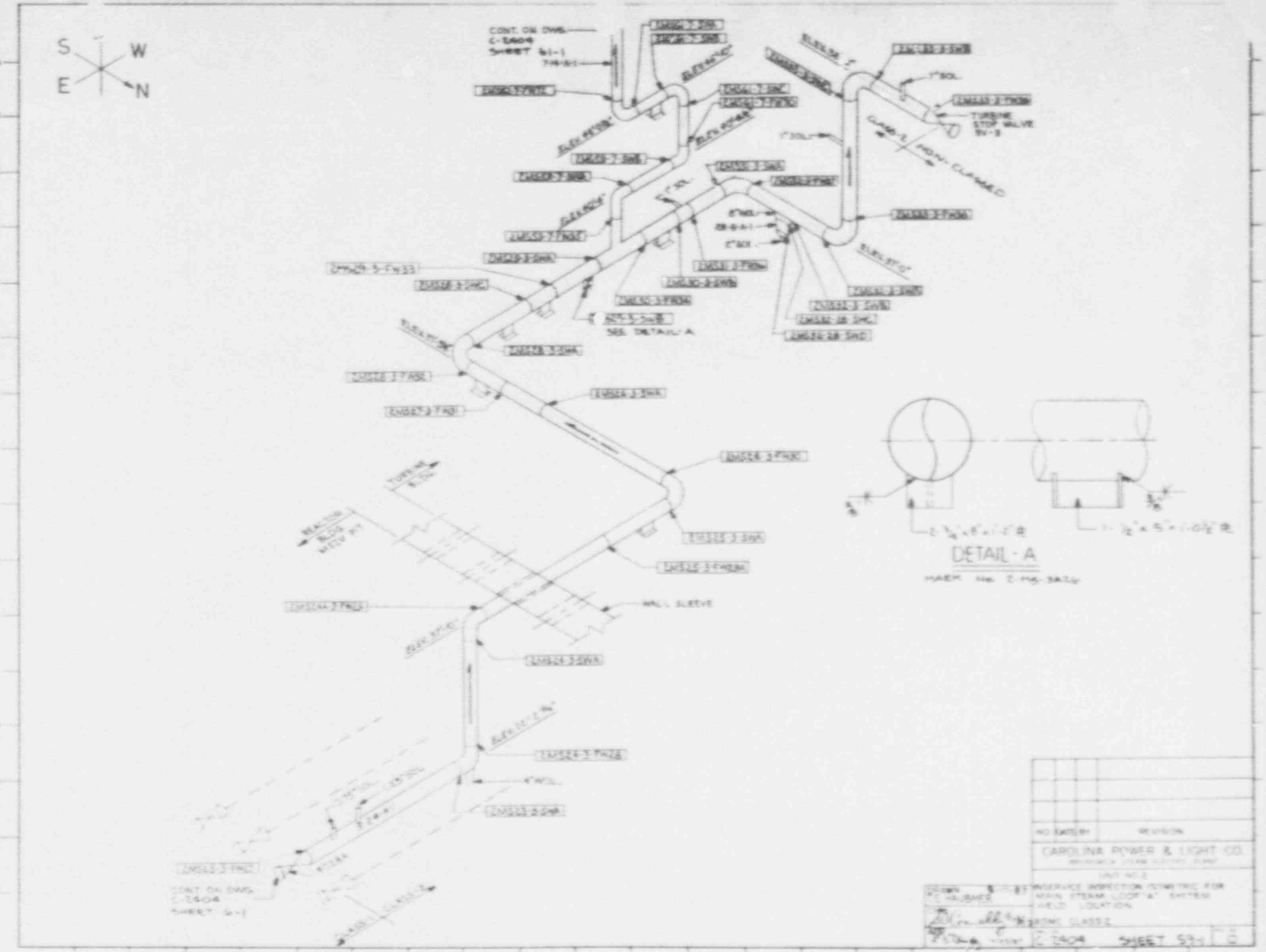
INSERVICE INSPECTION ISOMETRIC FOR REACTOR BUILDING REACTOR WATER CLEAN UP SYSTEM WELD LOCATION

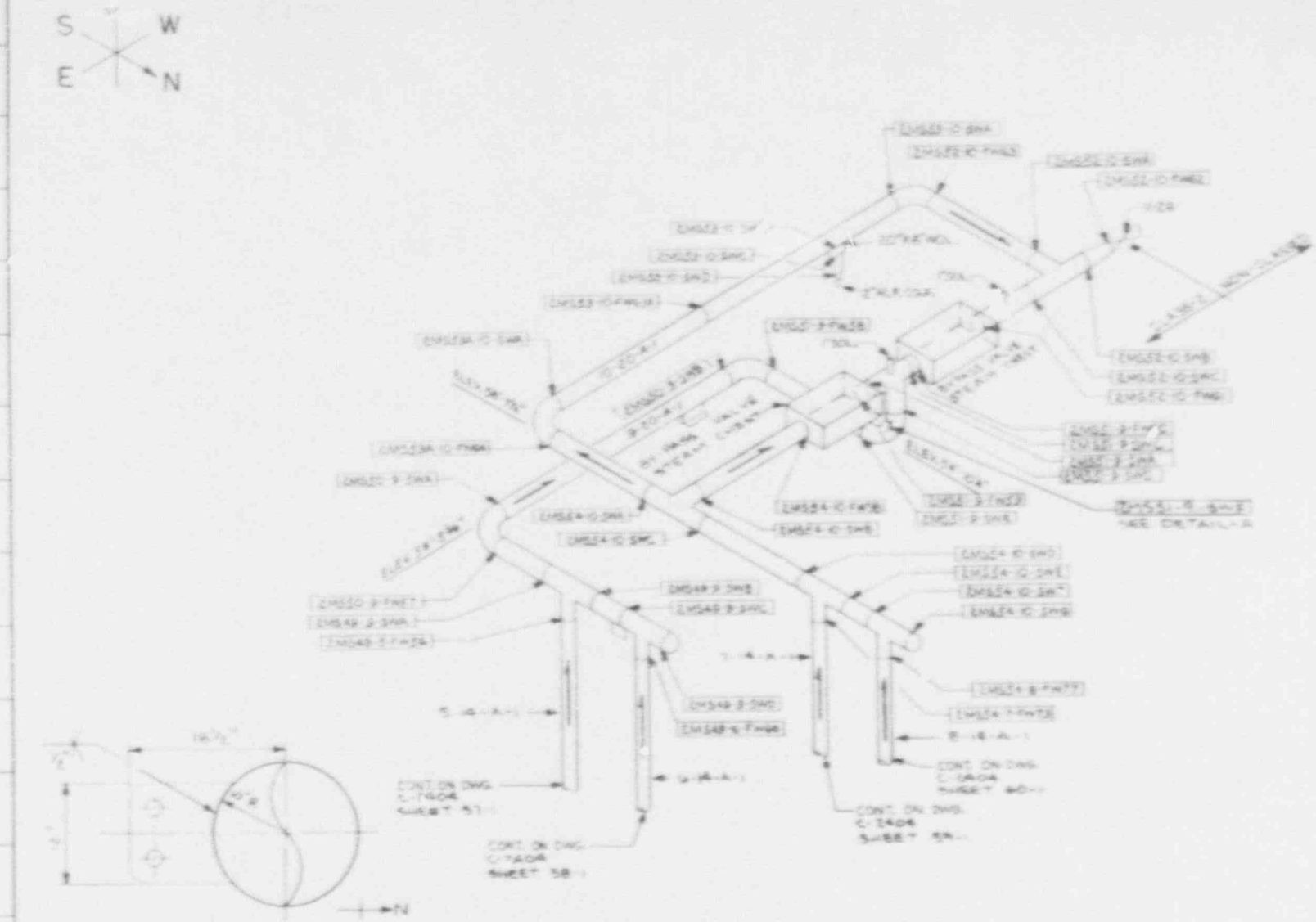
ASME CLASS 2

DRAWN C. HAUBNER

C-2404 SHEET 49 0


S
W
E
N
CONT. ON DWG. C-2604 SHEET 55-1
CONT. ON DWG. C-2604 SHEET 55-1
CONT. ON DWG. C-2604 SHEET 54-1
CAROLINA POWER & LIGHT CO.
INSERVICE INSPECTION COMPONENTS FOR
C-2604
SHEET 5C-1


S
W
E
N
CONT. ON DWG. C-2404 SHEET 61-1
TURBINE STOP VALVE SV-3
SEE DETAIL-A
WALL SLEEVE
DETAIL - A
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INVERVICE INSPECTION ISOMETRIC FOR MAIN STEAM LOOP "A" SYSTEM WELD LOCATION
ASME CLASS 2
C-2404
SHEET 59-1



NO	DATE	BY	REVISION

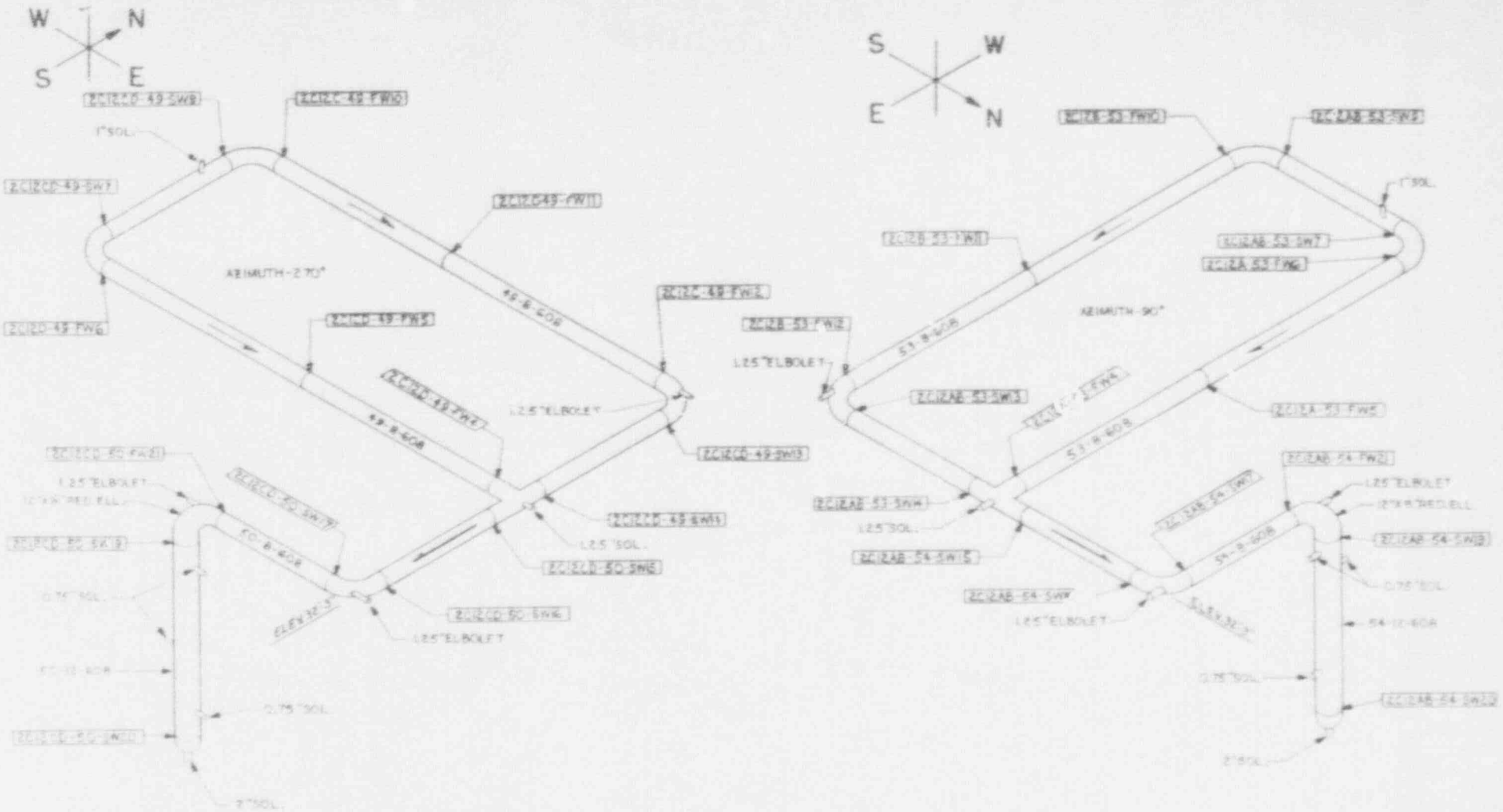
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

DRAWN E. HAUBNER

SERVICE INSPECTION ISOMETRIC FOR MAIN STEAM BY PASS CHEST PIPING SYSTEM WELD LOCATION

ASME CLASS 2

DWG NO. 2-2404 SHEET NO. 1 REV. 0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.

BRUNSWICK STEAM ELECTRIC PLANT

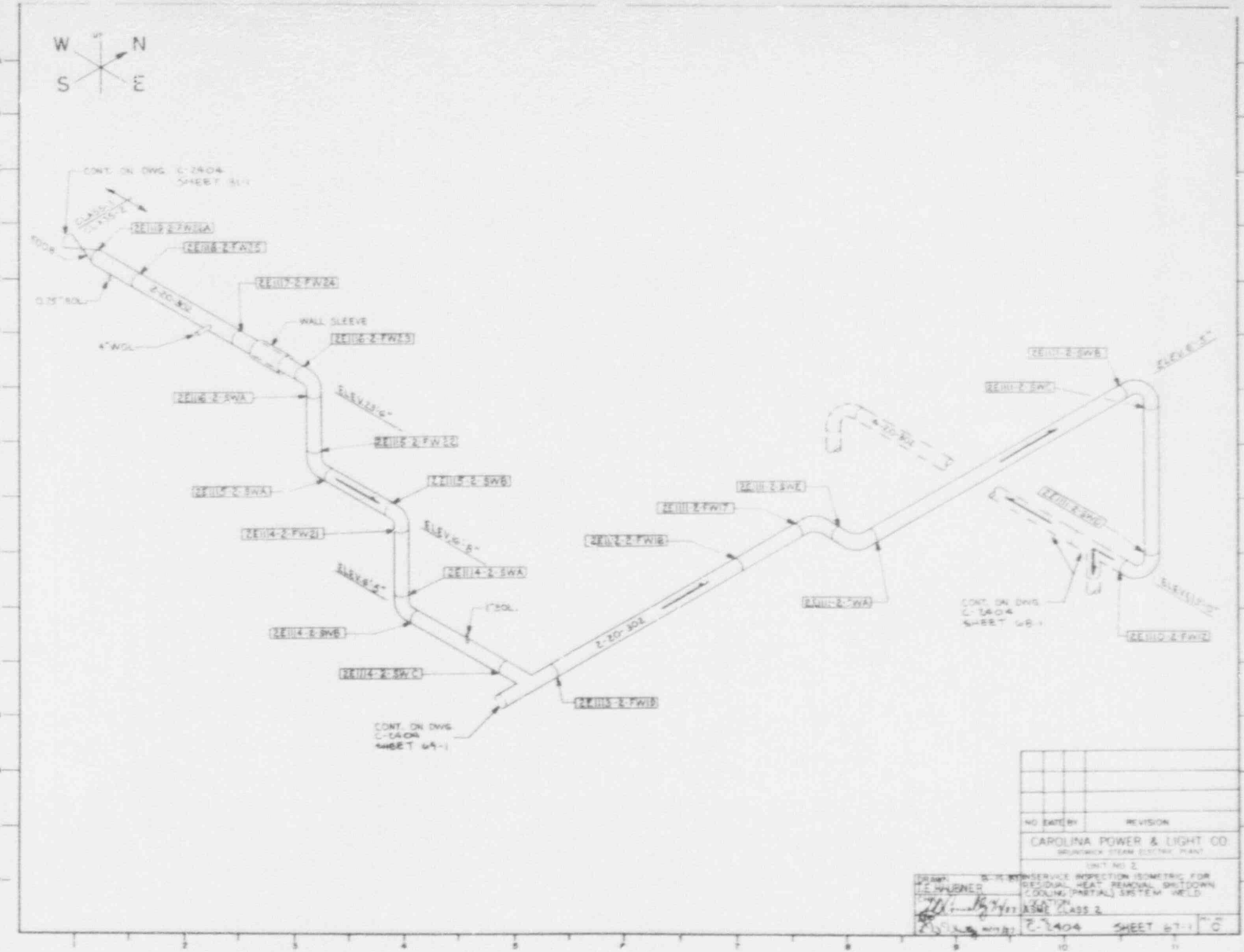
UNIT NO. 2

DRAWN E. HAUBNER

SERVICE INSPECTION ISOMETRIC FOR PRE-CORE RAW DISCHARGE VOLUME EXCEEDED WELD LOCATION

ASME CLASS 2

C 2404 SHEET 4-1

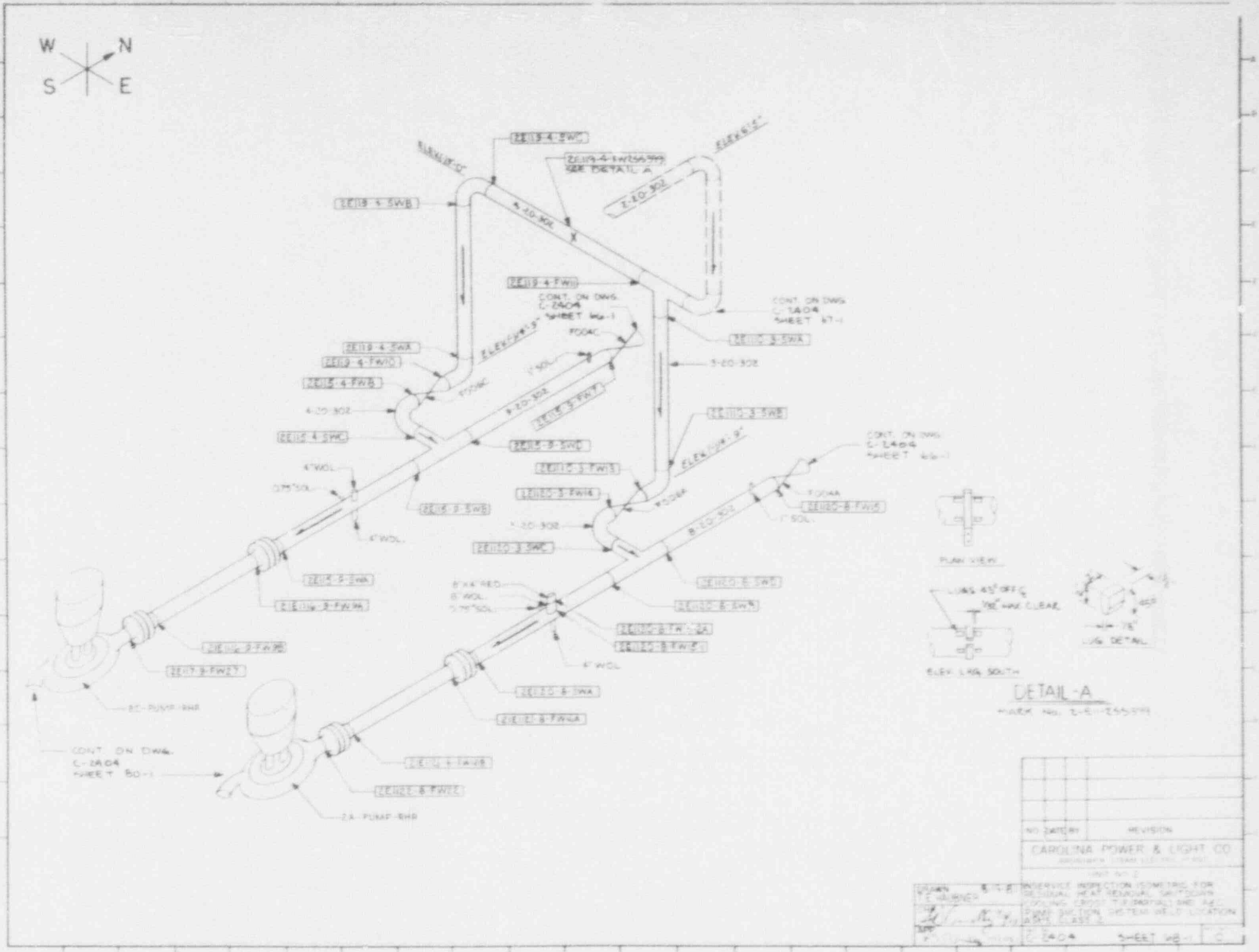


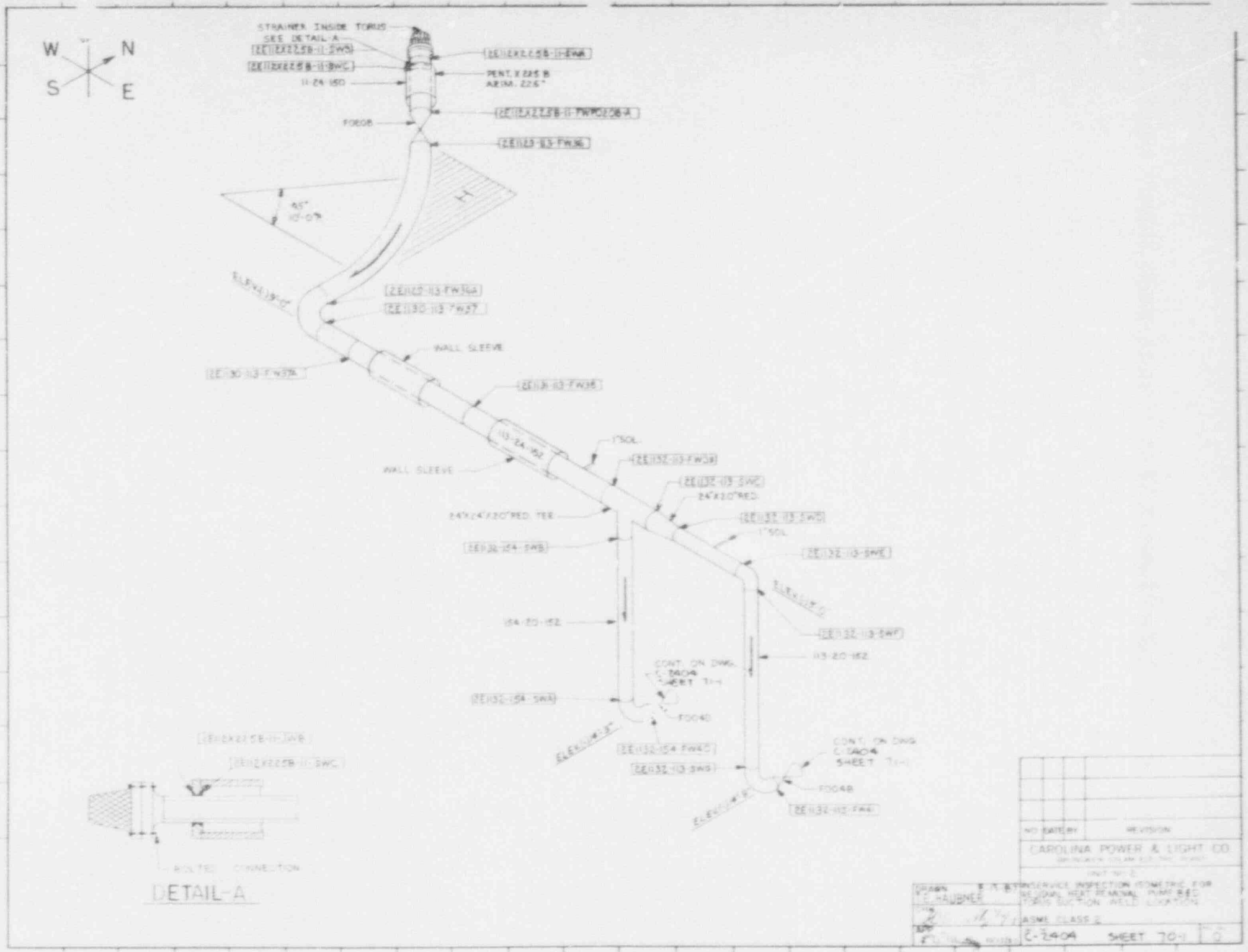
NO	DATE	BY	REVISION

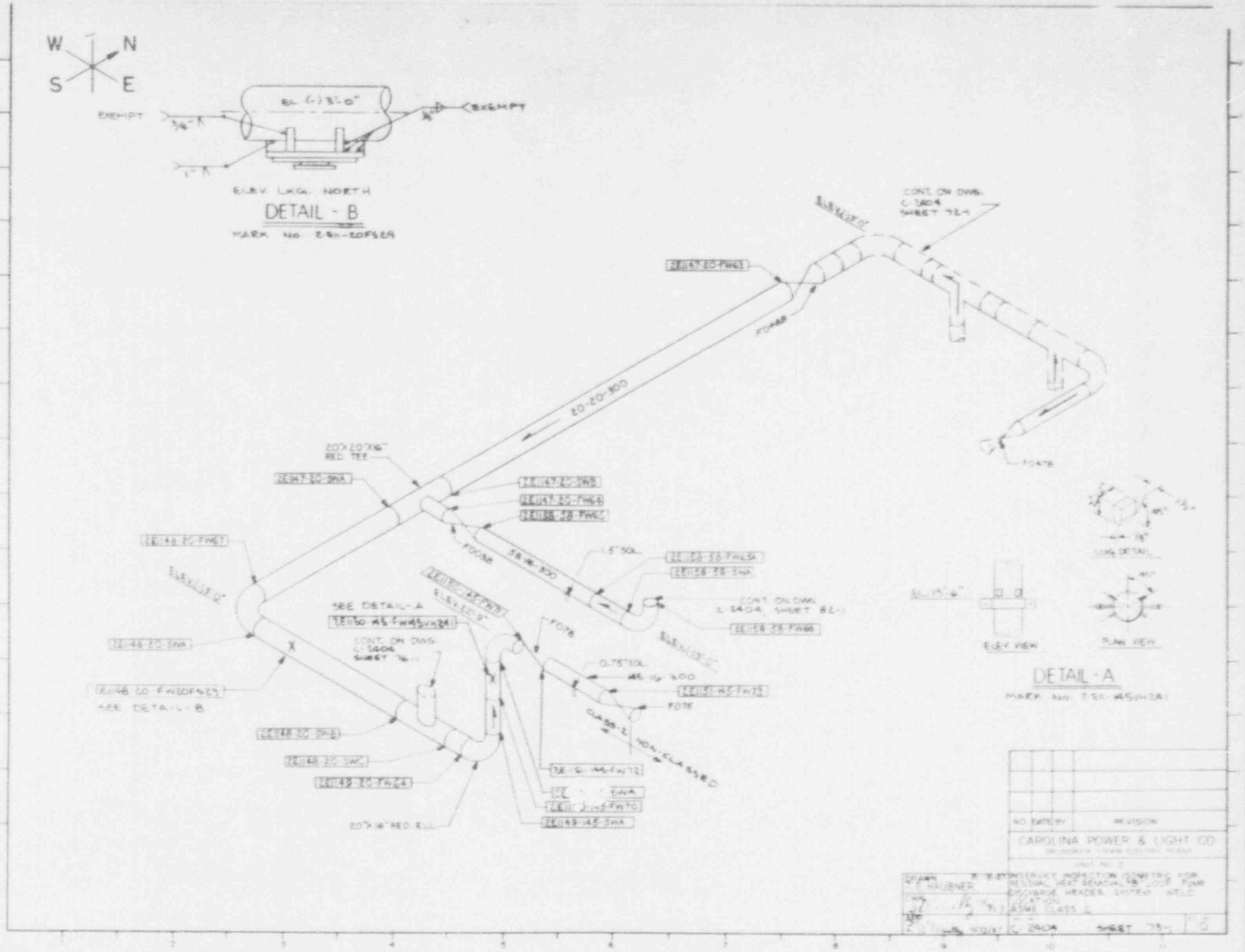
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SHUTDOWN COOLING (PARTIAL) SYSTEM WELD LOCATION
ASME CLASS 2

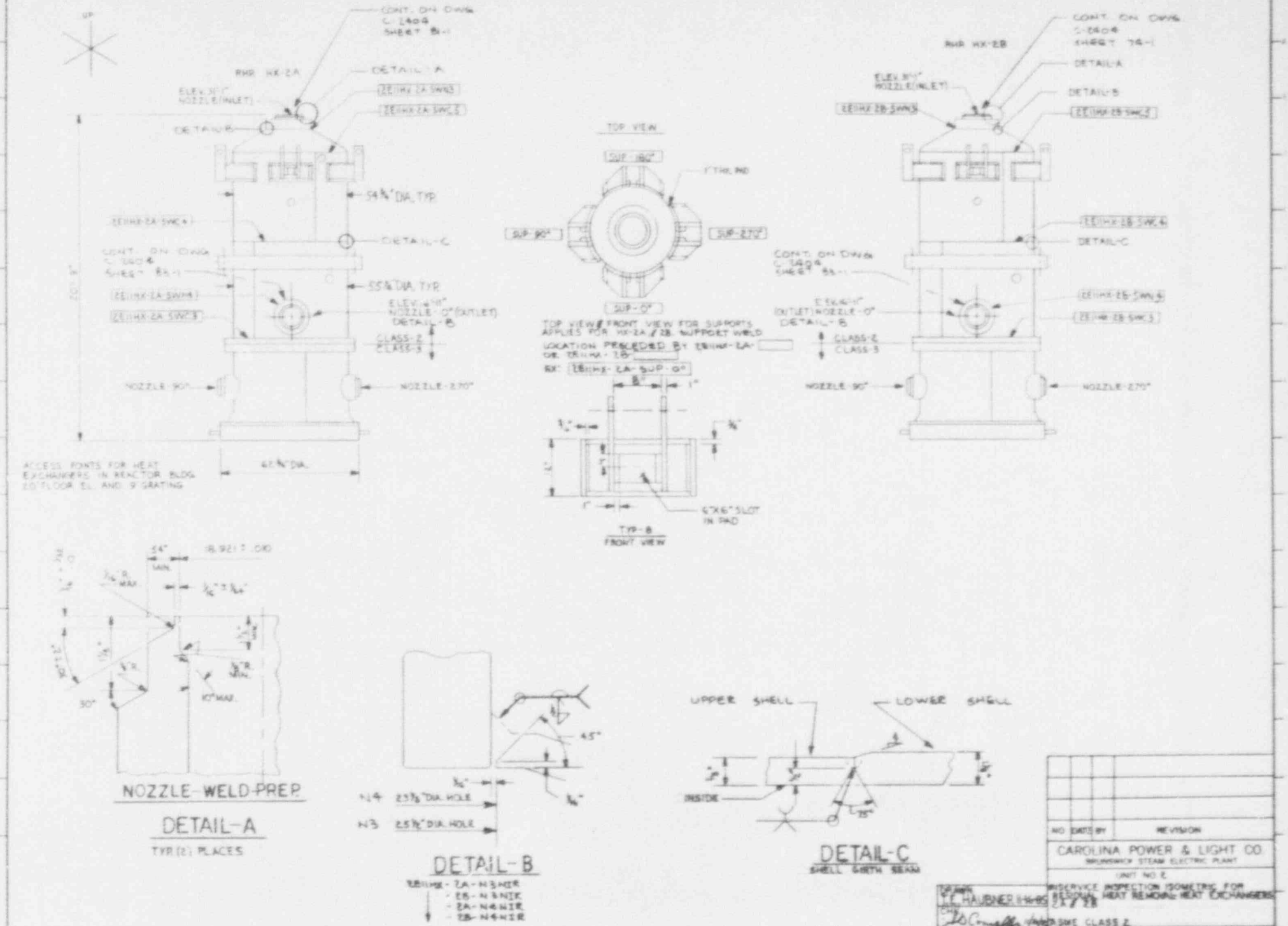
DRAWN: 10-15-87 T.E. WAGNER
APPROVED: 10-15-87
APPROVED: 10-15-87

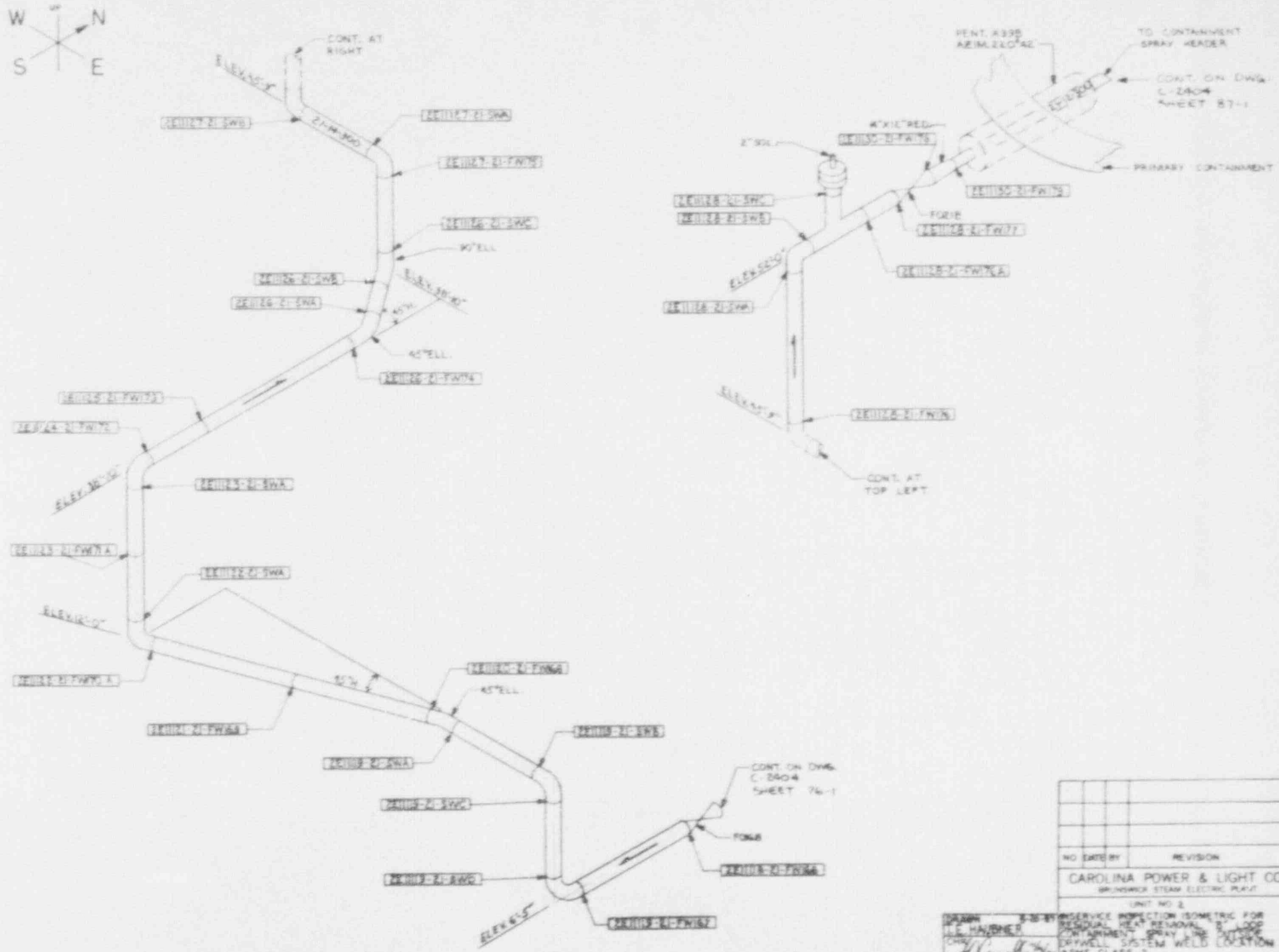
C-2404 SHEET 67-1 C


W
N
S
E
2E119-4-SWB
2E119-4-SWA
2E119-4-FW10
2E118-4-FW9
4-20-302
2E116-4-SWC
2E115-3-SWC
2E115-3-SWD
2E116-3-SWB
2E114-3-SWA
2E114-3-FW14
2E117-3-FW27
2C-PUMP-RHR
CONT. ON DWG. C-2404 SHEET 80-1
2A-PUMP-RHR
2E121-8-FW22
2E120-8-SWA
2E122-8-FW24
2E120-8-SWB
2E120-8-SWC
2E120-8-FW15
2E120-8-FW16
2E120-8-FW17
2E120-3-SWC
2E120-3-FW14
2E119-3-SWD
2E119-3-SWB
2E119-3-FW9
2E118-3-SWA
2E118-3-FW8
2E118-3-SWB
2E119-4-FW11
CONT. ON DWG. C-2404 SHEET 66-1
CONT. ON DWG. C-2404 SHEET 67-1
2E118-3-SWA
3-20-302
2E119-4-FW12
2-20-302
PLAN VIEW
LUGS 45° OFF ℄
LUG DETAIL
ELEV. LUG SOUTH
DETAIL-A
MARK NO. 2-E-255599
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SHUTDOWN COOLING CROSS TIE (PARTIAL) SHE AE PUMP SUCTION SYSTEM WELD LOCATION ASME CLASS 2
C-2404
SHEET 68-1


W
N
S
E
STRAINER INSIDE TORUS
SEE DETAIL-A
PENT. X 225 B
AREM. 22.5°
F0808
85°
15'-0"
WALL SLEEVE
WALL SLEEVE
1"SOL.
24"X24"X20"RED. TEE
24"X20"RED.
1"SOL.
CONT. ON DWG.
C-2404
SHEET 7H
F0040
CONT. ON DWG.
C-2404
SHEET 7H
F0048
DETAIL-A
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
DRAWN E. A. B.
C. HAUBNER
IN SERVICE INSPECTION ISOMETRIC FOR
REGIONAL HEAT REMOVAL PUMP B&C
TORUS SUCTION WELD LOCATION
ASME CLASS 2
C-2404 SHEET 7H


W
N
S
E
EL (-) 3'-0"
EXEMPT
EXEMPT
3/4"
1"
ELEV. LKG. NORTH
DETAIL - B
MARK NO. 2SH-EDFS29
CONT. ON DWG. C-2404 SHEET 72-1
20-20-300
FO48
FO47B
20"X20"X16" RED. TEE
2EI147-20-SWA
2EI147-20-SWB
2EI147-20-FW69
2EI158-28-FW67
2EI148-20-FW67
ELEV. 128'-0"
FO48B
58-16-300
1.5" SOL.
2EI158-28-FW65A
2EI158-28-SWA
CONT. ON DWG. C-2404 SHEET 82-1
2EI158-28-FW66
ELEV. 128'-0"
SEE DETAIL-A
2EI150-145-FW45-VH24
ELEV. 22'-9"
FO78
2EI148-20-SWA
CONT. ON DWG. C-2404 SHEET 76-1
0.75" SOL.
145-16-300
2EI151-145-FW73
FO75
2EI148-20-FW20FS29
SEE DETAIL-B
CLASS-2
HDN-CLASSED
2EI148-20-SWB
2EI148-20-SWC
2EI148-20-FW24
2EI151-145-FW72
2EI151-145-FW70
2EI149-145-SWA
20"X16" RED. ELL.
CONG DETAIL
ELEV. VIEW
PLAN VIEW
DETAIL - A
MARK NO. 2SH-145-SWA-2A1
NO. ENTERY
REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM LOOP FOUR DISCHARGE HEADER SHOWING WELD LOCATION
ASME CLASS 2
C. 2404
SHEET 73-1
3


CONT. ON DWG C-2404 SHEET 73-1
RHR HX-2A
DETAIL-A
ELEV. 31'-0" NOZZLE (INLET)
DETAIL-B
54 3/4" DIA. TYP.
DETAIL-C
CONT. ON DWG C-2404 SHEET 73-1
55 3/4" DIA. TYP.
ELEV. 14'-11" NOZZLE-0" (OUTLET) DETAIL-B
CLASS-2 CLASS-3
NOZZLE-90°
NOZZLE-270°
62 3/4" DIA.
ACCESS POINTS FOR HEAT EXCHANGERS IN REACTOR BLDG. 261' FLOOR EL. AND 9' GRATING
TOP VIEW
SUP-180°
1" THK. PAD
SUP-90°
SUP-270°
SUP-0°
TOP VIEW & FRONT VIEW FOR SUPPORTS APPLIES FOR HX-2A & 2B. SUPPORT WELD LOCATION PRECEDED BY 2B11HX-2A- OR 2B11HX-2B-
EX: 2B11HX-2A-SUP-0°
6"X6" SLOT IN PAD
TYP-B FRONT VIEW
RHR HX-2B
CONT. ON DWG C-2404 SHEET 73-1
DETAIL-A
ELEV. 31'-0" NOZZLE (INLET)
DETAIL-B
2B11HX-2B-SWN3
2B11HX-2B-SWN2
2B11HX-2B-SWN4
DETAIL-C
CONT. ON DWG C-2404 SHEET 73-1
ELEV. 14'-11" (OUTLET) NOZZLE-0" DETAIL-B
2B11HX-2B-SWN6
2B11HX-2B-SWN5
CLASS-2 CLASS-3
NOZZLE-90°
NOZZLE-270°
NOZZLE-WELD-PREP.
DETAIL-A
TYP. (2) PLACES
N4 2 5/8" DIA. HOLE
N3 2 5/8" DIA. HOLE
DETAIL-B
2B11HX-2A-N3NIR
-2B-N3NIR
-2A-N4NIR
-2B-N4NIR
UPPER SHELL
LOWER SHELL
INSIDE
DETAIL-C
SHELL SHEET SEAM
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL HEAT EXCHANGERS 2A & 2B
ASME CLASS 2
C-2404 SHEET 73-1
0



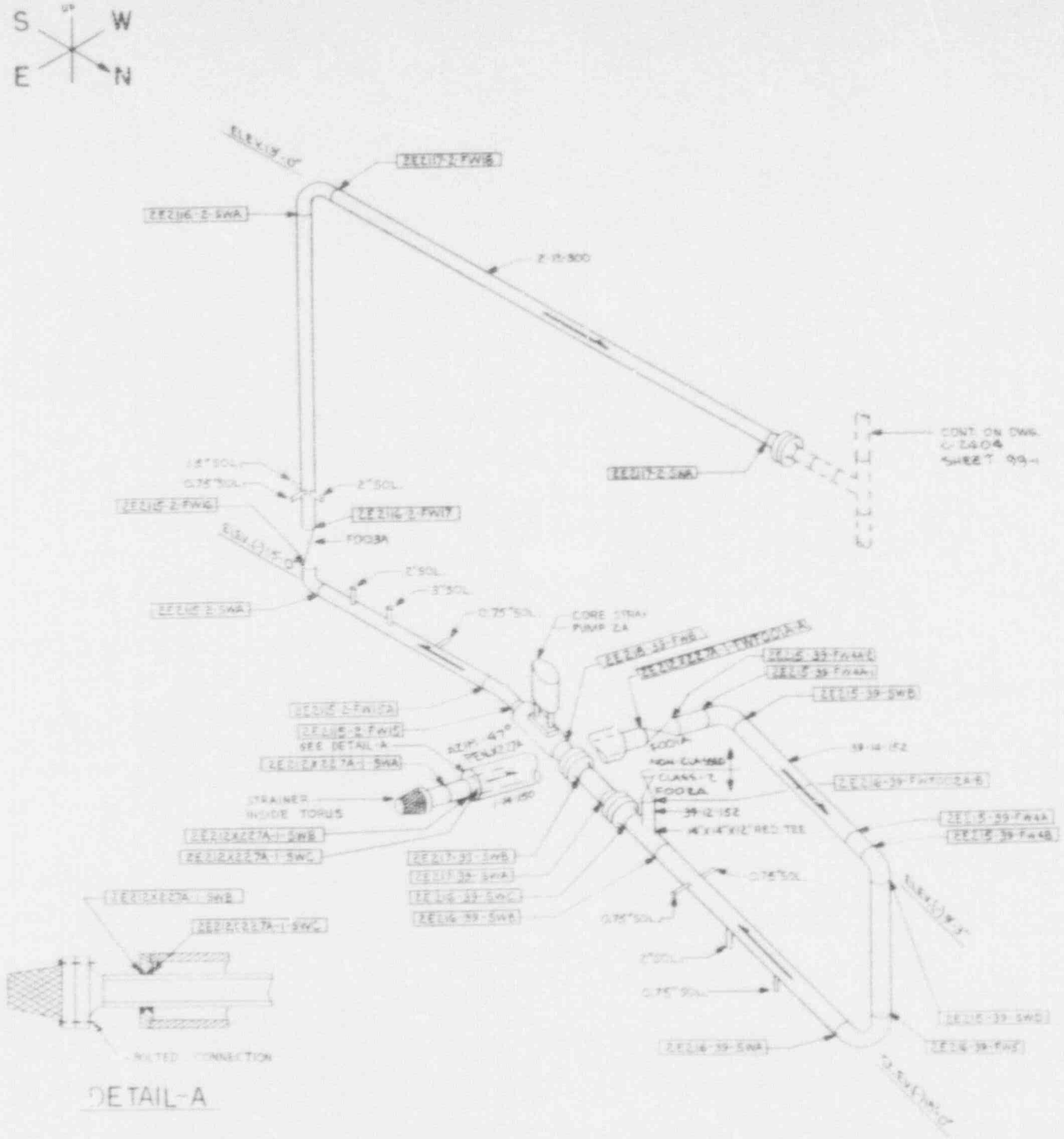
NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

DRAWN 3-30-87 R.E. HAUBNER
CHK'D
DATE 3/31/87

INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL B' LOOP CONTAINMENT SPRAY LINE OUTSIDE DRYWELL SYSTEM WELD LOCATION
ASME CLASS 2

DWG. NO. C-2404 SHEET 86-1
REV. NO. 0



NO	DATE	BY	REVISION

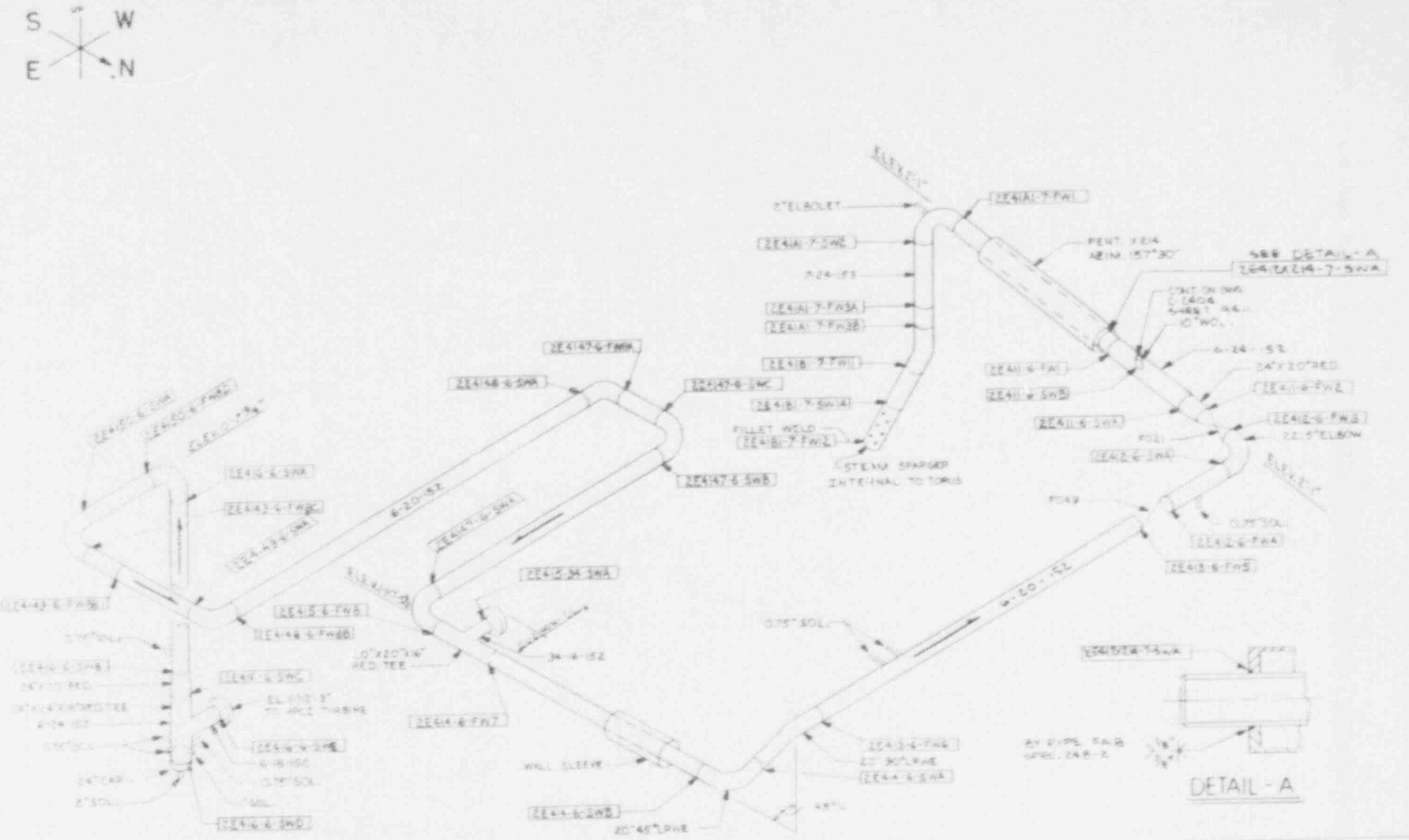
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2

DRAWN T.E. HAUBNER

INSERVICE INSPECTION ISOMETRIC FOR CLASS II LOOP A CORE SPRAY SYSTEM WELD LOCATION

ASME CLASS 2

C-2404 SHEET 98-1 0



NO	DATE	BY	REVISION

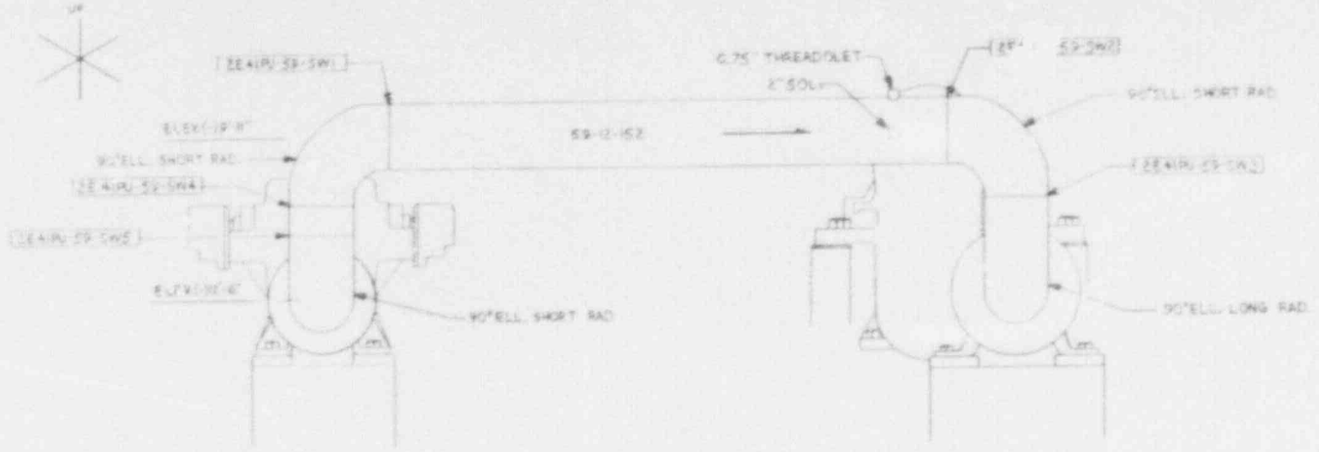
CAROLINA POWER & LIGHT CO

INSERVICE INSPECTION ISOMETRIC FOR CLASS II HIGH PRESSURE COOLANT INJECTION SYSTEM WELD LOCATION

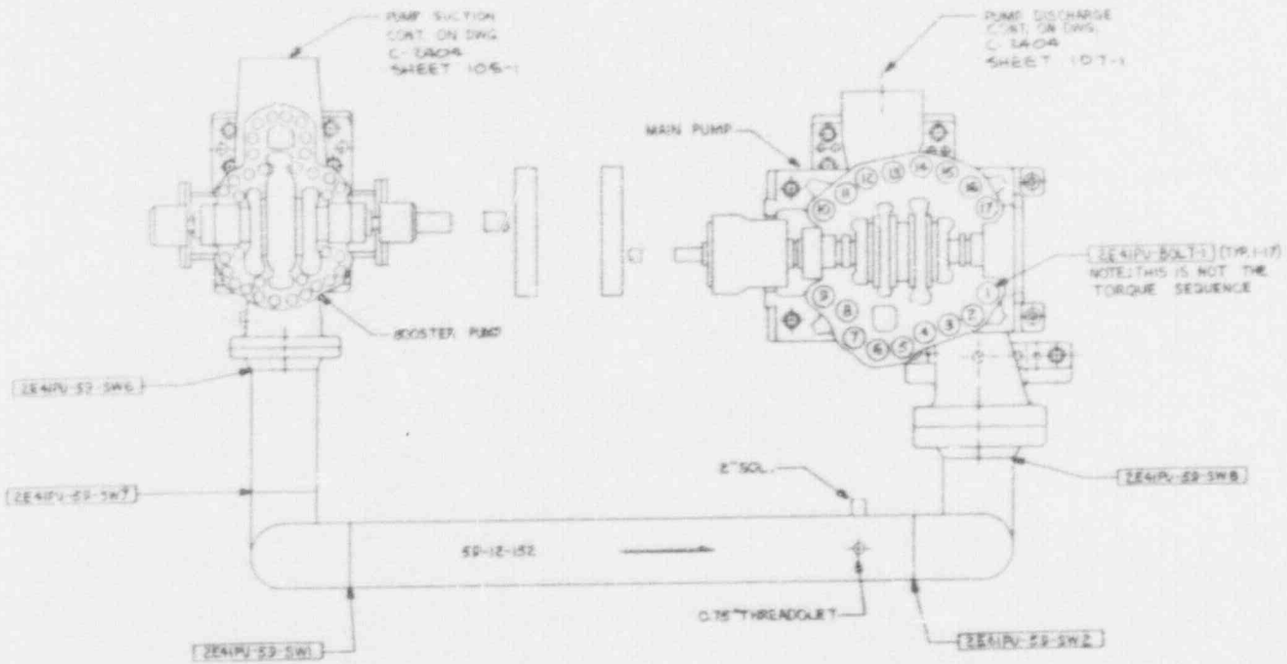
DRAWN E. HUBNER 5-18-81

ASME CLASS 2

C-2404 SHEET 104-1 0



ELEVATION VIEW



PLAN VIEW

NO	DATE	BY	REVISION

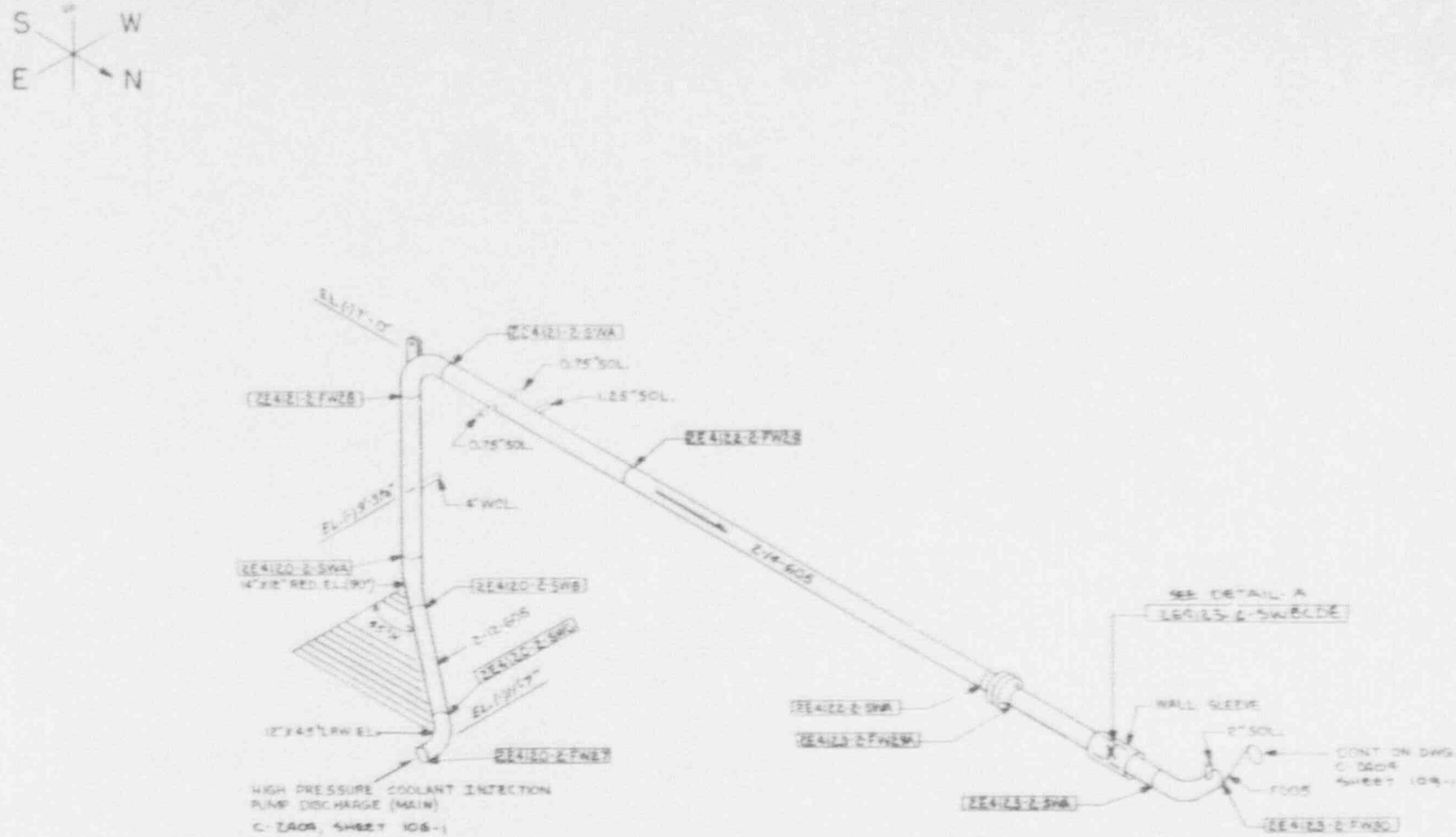
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

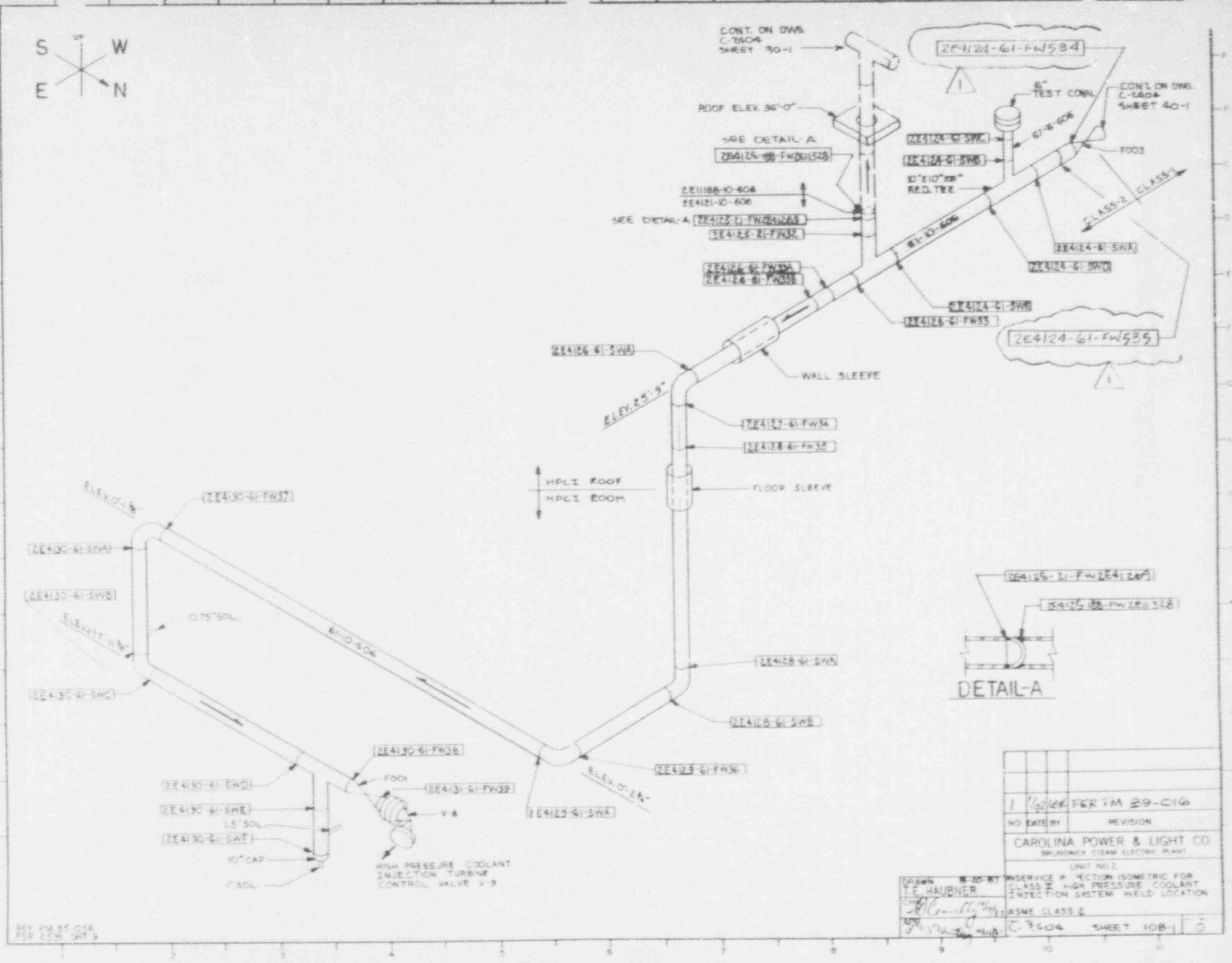
DRAWN 8-18-87 T.E. HAUBNER

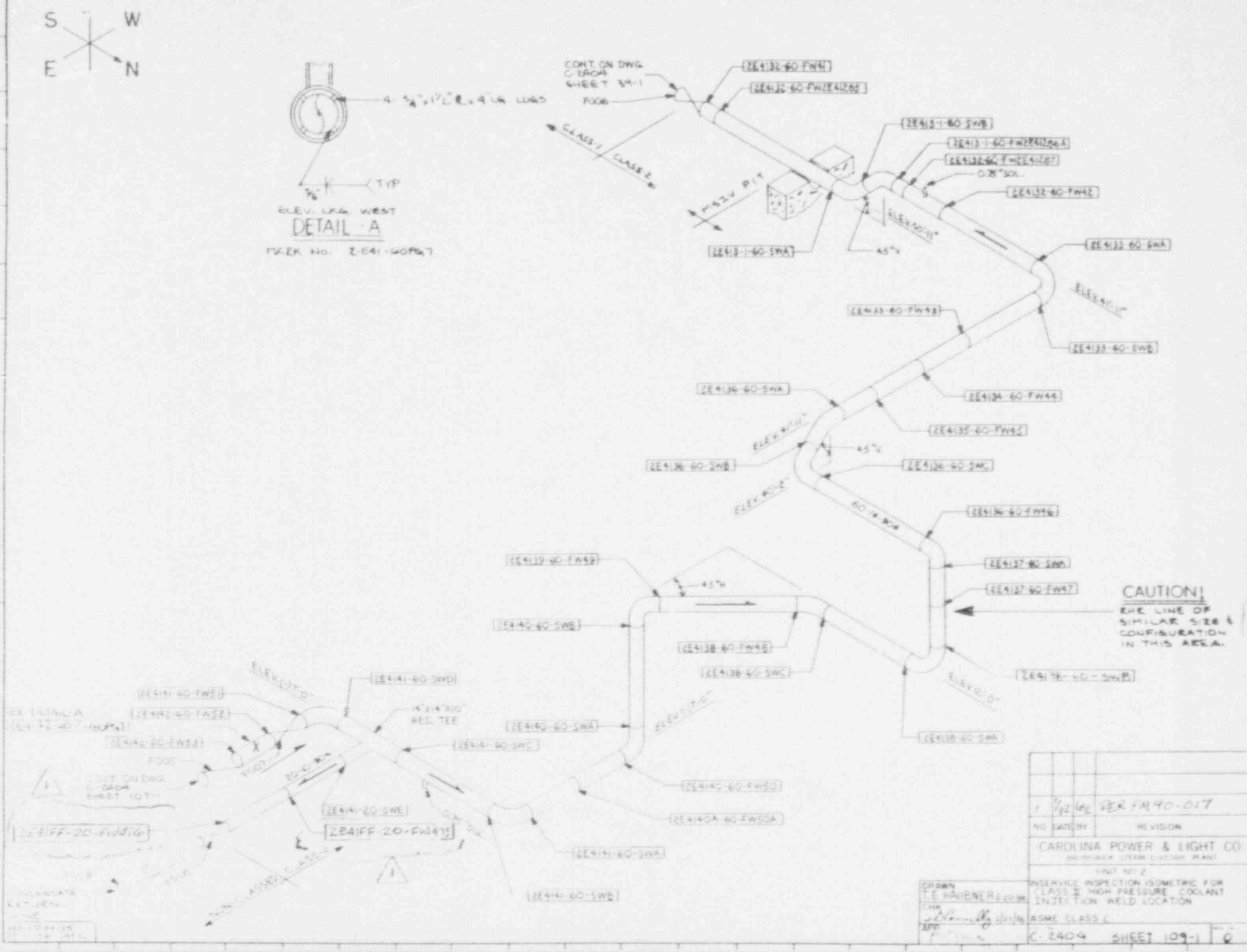
INSERVICE INSPECTION ISOMETRIC FOR HPCI BOOSTER TO MAIN PUMP PIPING SYSTEM WELD LOCATION

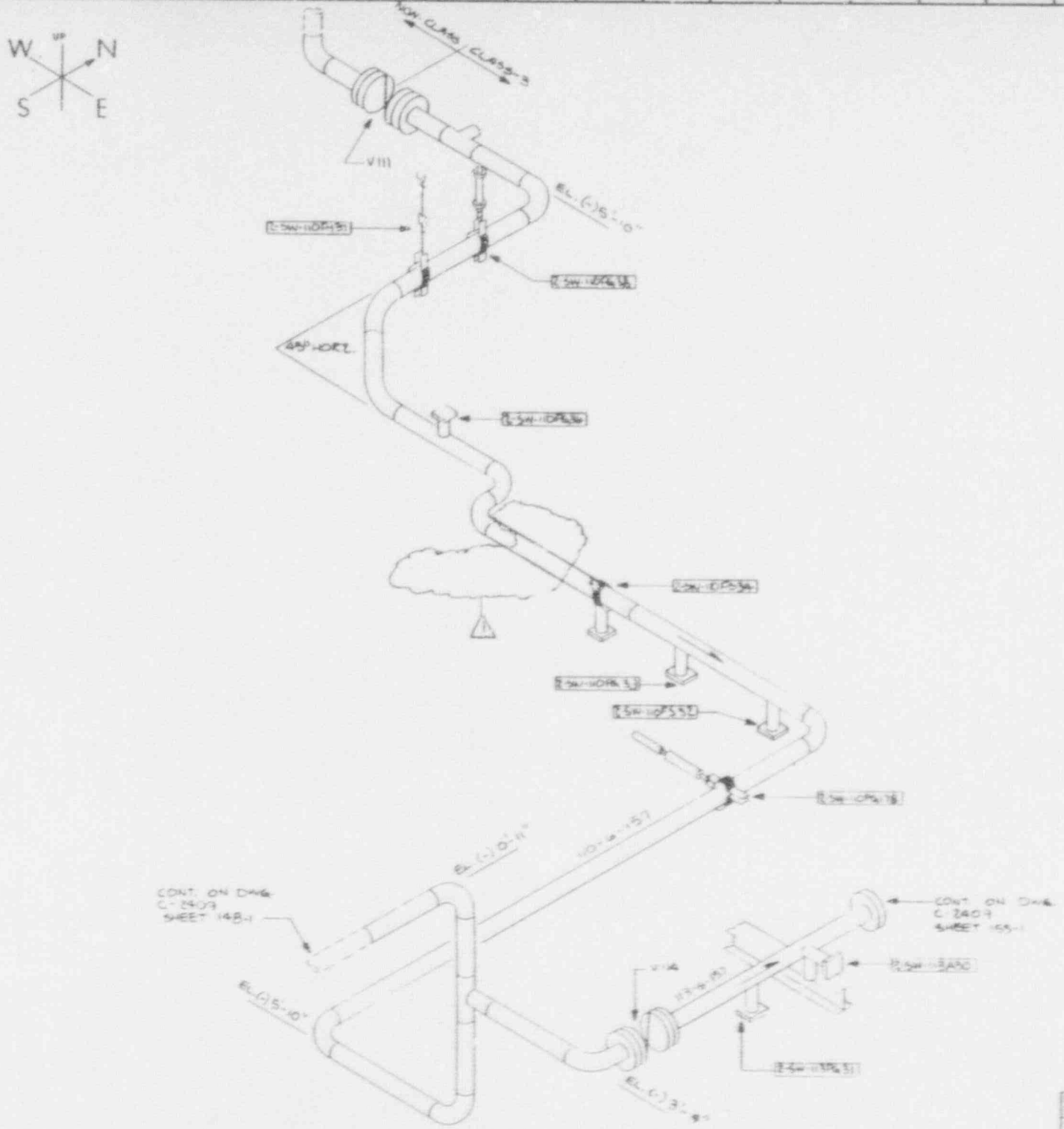
ASME CLASS 2

C-2404 SHEET 106-1 REV. NO. 0


S
W
E
N
EL. 117'-0"
2E4121-2-SWA
0.75" SOL.
1.25" SOL.
2E4121-2-FW2B
0.75" SOL.
2E4122-2-FW2B
EL. 119'-3 3/4"
4" WOL.
2E4120-2-SWA
14"x12" RED. ELL. (90°)
2E4120-2-SWB
2-12-605
2E4122-2-SWB
EL. 119'-1"
12"x45° LRW EL.
2E4120-2-FW2B
HIGH PRESSURE COOLANT INJECTION
PUMP DISCHARGE (MAIN)
C-2404, SHEET 108-1
2E4122-2-SWA
2E4123-2-FW2BM
2E4123-2-SWA
SEE DETAIL-A
2E4123-2-SWBCDE
WALL SLEEVE
2" SOL.
CONT. ON DWG
C-2404
SHEET 109-1
F5005
2E4123-2-FW3C
4 LUGS 3/4" THK. R x 2 7/16" x 4" LG.
TYP
DETAIL-A
MARK NO. 2E41-2PG6
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN
T.E. HAUBNER
INSERVICE INSPECTION ISOMETRIC FOR
CLASS 2 HIGH PRESSURE COOLANT
INJECTION SYSTEM WELD LOCATION
ASME CLASS 2
C-2404 SHEET 107-1
REV. 0


S
W
E
N
CONT. ON DWG. C-2604 SHEET 30-1
2E4124-61-FW534
1
ROOF ELEV. 36'-0"
SEE DETAIL-A
2E4124-61-FW501(328)
2E11188-10-606
2E4121-10-606
SEE DETAIL-A
2E4125-21-FW(2E4126)
2E4125-21-FW32
2E4126-61-FW34
2E4126-61-FW35
2E4126-61-SWA
ELEV. 25'-9"
HPCI ROOF
HPCI ROOM
2E4127-61-FW34
2E4128-61-FW35
FLOOR SLEEVE
WALL SLEEVE
6" TEST CONN.
CONT. ON DWG. C-2604 SHEET 40-1
2E4124-61-SWC
2E4124-61-SWB
61'-6"
FOO3
10"x10"x8" RED. TEE
61'-10"-606
CLASS-2
CLASS-1
2E4124-61-SWA
2E4124-61-SWD
2E4124-61-SWB
2E4126-61-FW33
2E4124-61-FW535
1
ELEV. 10'-8"
2E4130-61-FW37
2E4130-61-SWA
2E4130-61-SWB
ELEV. 17'-11 3/4"
0.75" SOL.
61'-10"-606
2E4130-61-SWC
2E4128-61-SWA
2E4128-61-SWB
2E4130-61-FW38
2E4129-61-FW36
ELEV. 10'-2 1/4"
2E4129-61-SWA
FOO4
2E4131-61-FW39
V-8
2E4130-61-SWD
2E4130-61-SWE
1.5" SOL.
2E4130-61-SWF
10" CAP
1" SOL.
HIGH PRESSURE COOLANT INJECTION TURBINE CONTROL VALVE V-9
2E4125-21-FW(2E4126)
2E4125-188-FW(2E11328)
DETAIL-A
1 1/92 PER FM 89-016
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN 11-20-87 T.E. HAUBNER
INSERVICE INSPECTION ISOMETRIC FOR CLASS 2 HIGH PRESSURE COOLANT INJECTION SYSTEM WELD LOCATION
ASME CLASS 2
C-2604 SHEET 10B-1
0
REF. FM 87-056 FOR 2E4 SHT 3


S
W
E
N
4-3/8"x1½"R.x4"LG LUGS
TYP
ELEV. LKG. WEST
DETAIL A
MKRK. NO. 2-E41-60FW67
CONT. ON DWG. C-2404 SHEET 39-1
FCOS
CLASS 1
CLASS 2
PIT
ELEV. 90'-11"
45°V
2E4132-60-FW41
2E4132-60-FW2E41285
2E4133-1-60-SWB
2E4133-1-60-FW2E41286A
2E4132-60-FW2E41287
0.25" SOL.
2E4132-60-FW42
2E4133-1-60-SWA
2E4133-60-SWA
ELEV. 90'-11"
2E4133-60-FW43
2E4133-60-SWB
2E4136-60-SWA
2E4134-60-FW44
2E4135-60-FW45
ELEV. 90'-11"
45°V
2E4136-60-SWB
2E4136-60-SWC
ELEV. 90'-2"
2E4136-60-FW46
2E4137-60-SWA
2E4137-60-FW47
CAUTION!
THE LINE OF SIMILAR SIZE & CONFIGURATION IN THIS AREA.
2E4139-60-FW49
45°H
2E4140-60-SWB
2E4138-60-FW48
2E4138-60-SWC
2E4138-60-SWB
ELEV. 90'-0"
2E4138-60-SWA
ELEV. 77'-0"
2E4141-60-SWD
2E4141-60-FW51
2E4142-60-FW52
2E4142-20-FW521
FCOS
CONT. ON DWG. C-2404 SHEET 107-1
16"x14"x10" RED. TEE
2E4141-60-SWC
2E4140-60-SWA
2E4140-60-FW50
2E4140A-60-FW50A
2E4141-20-SWE
2E41FF-20-FW495
2E41FF-20-FW496
2E4141-60-SWA
2E4141-60-SWB
CONDENSATE RETURN LINE
DRAWN T.E. HAVENER
CHK
APP
1 5/22 KPL PER FM 90-017
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR CLASS 2 HIGH PRESSURE COOLANT INJECTION WELD LOCATION
ASME CLASS 2
C-2404 SHEET 109-1
6



NO	DATE	BY	REVISION
1	12/12/81	JD	PM 82-220A

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2

DRAWN 4-2-81 C.E. JOHNSON

CHK

APP

INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER SYSTEM 6" SUCTION HEADER HANGER LOCATION

ASME CLASS 3

C-2404

1 OF 1

0

NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER TO EHR PUMP ROOM COOLER 2A HANGER LOCATION

ASME CLASS 3

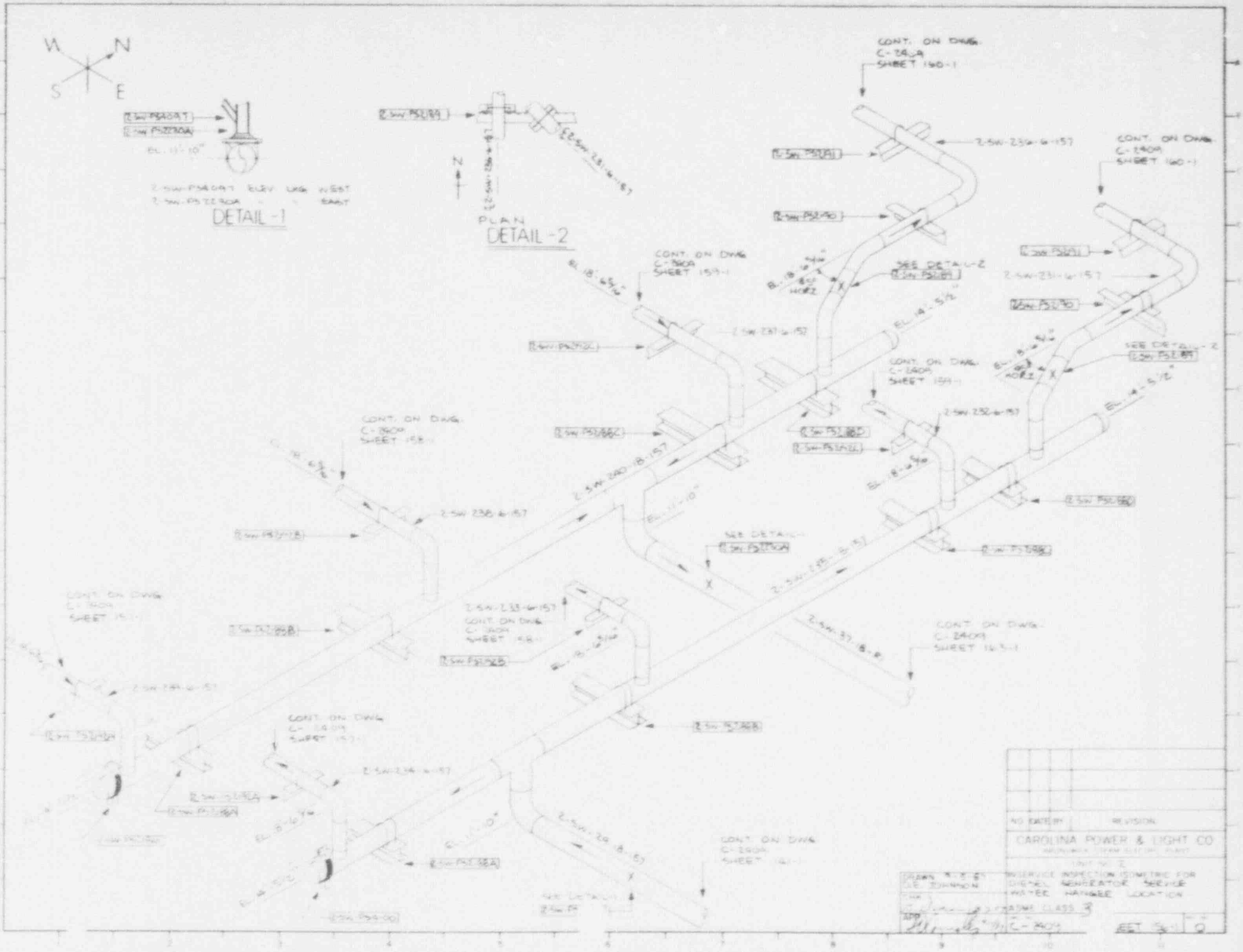
DRAWN 5-28-87 D.E. JOHNSON

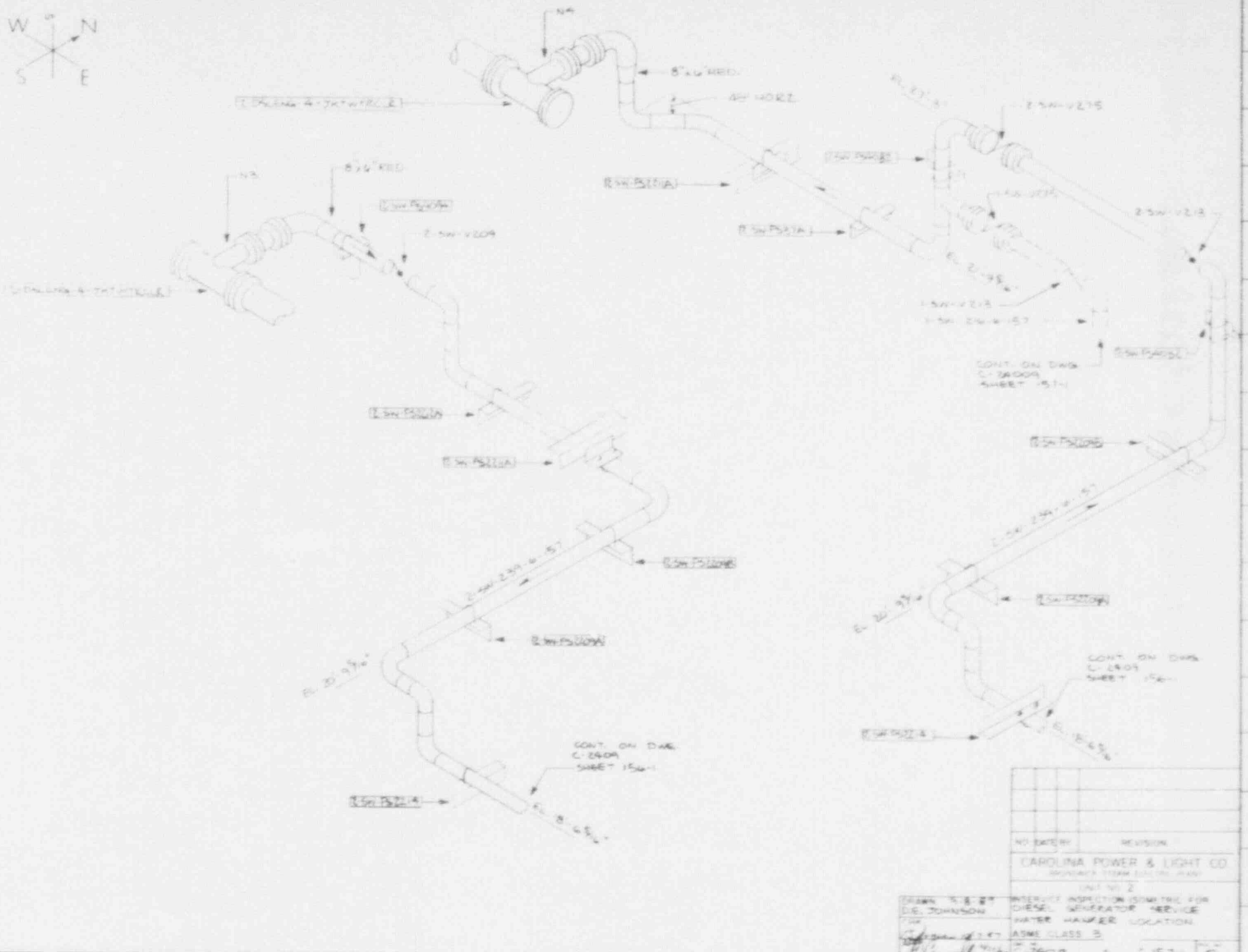
CHK

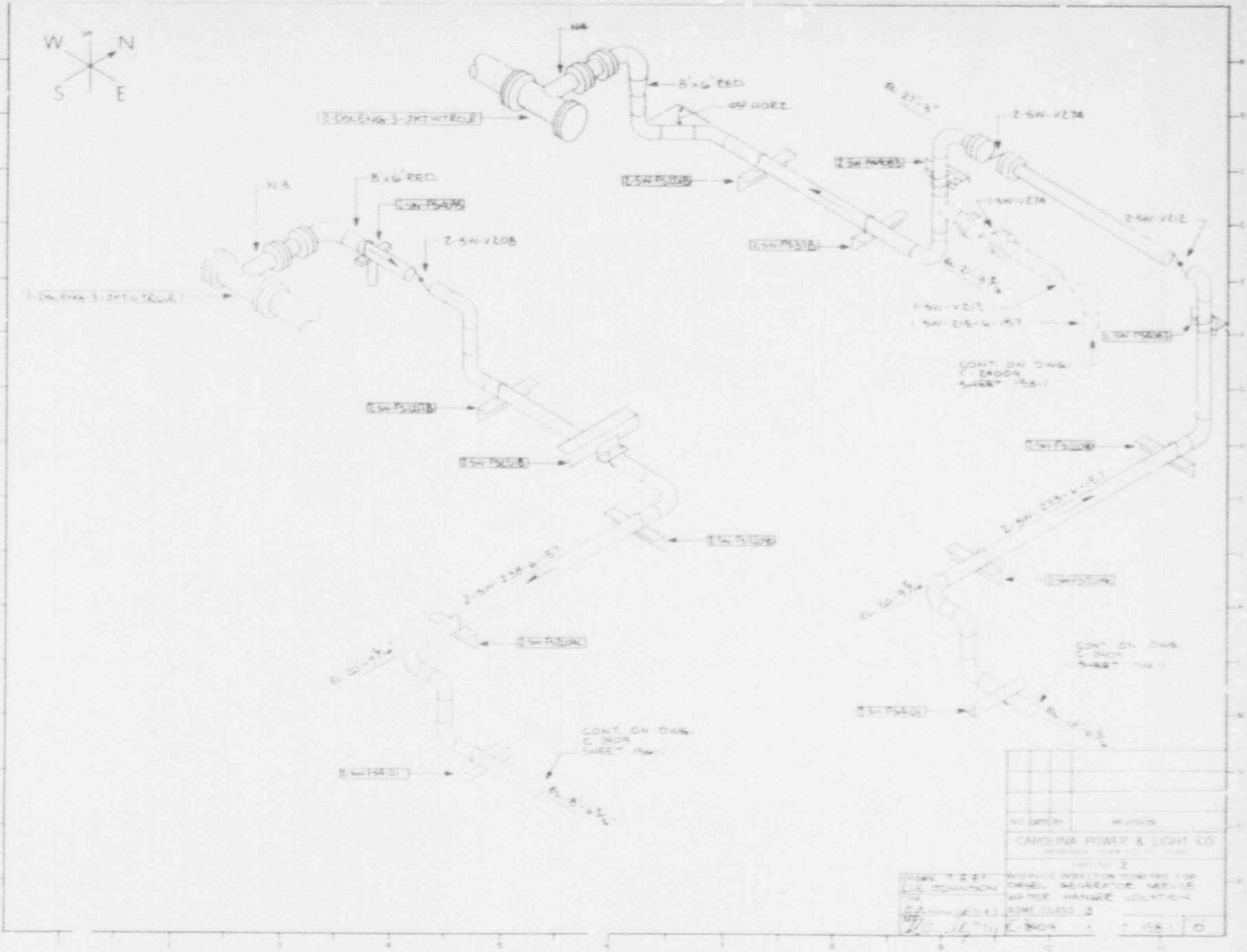
APP

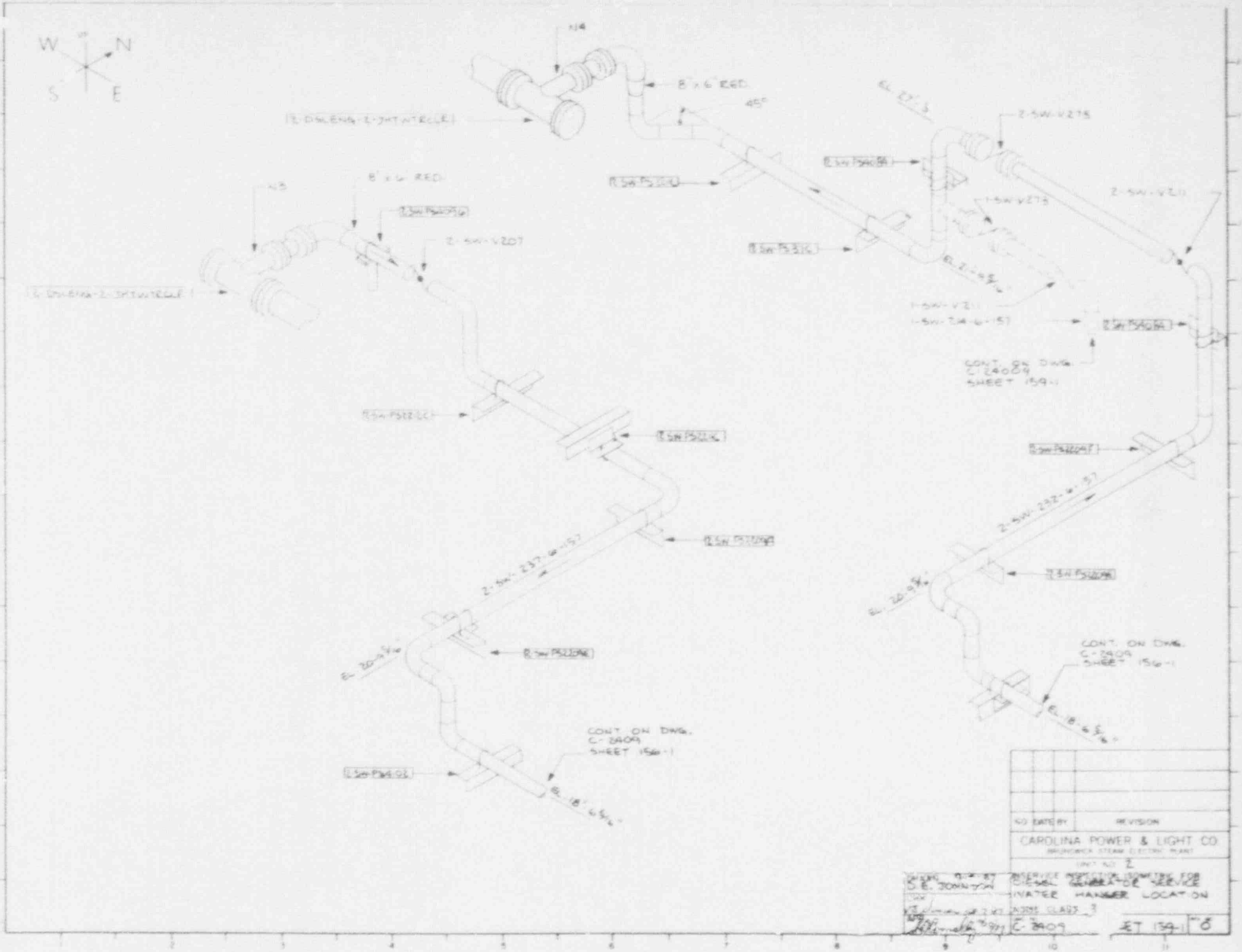
DWG NO. G-3609 SHT 155-1

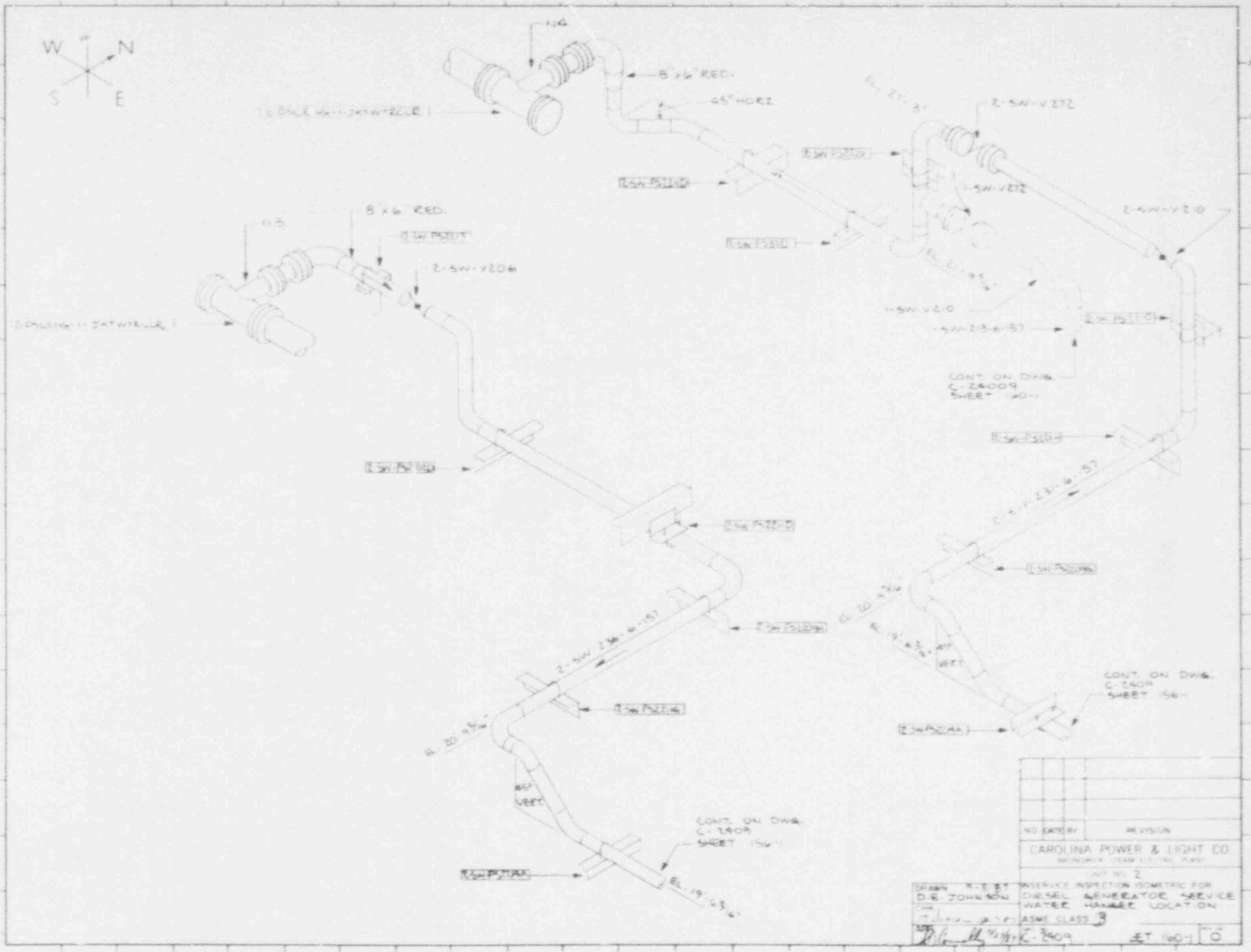
REV NO. 0

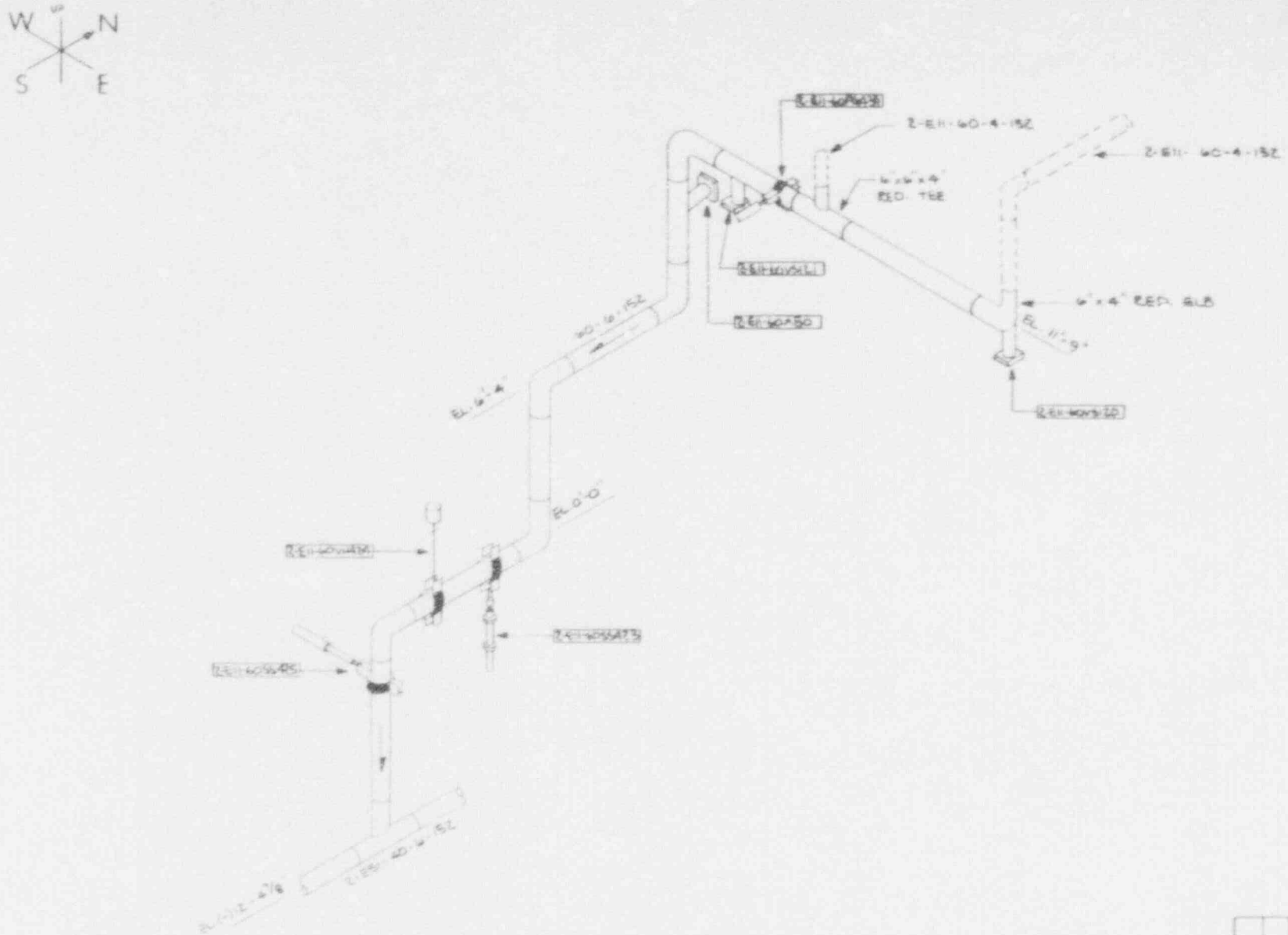

N
S
E
DETAIL -1
PLAN
DETAIL -2
CONT. ON DWG. C-360A SHEET 160-1
CONT. ON DWG. C-360A SHEET 159-1
CONT. ON DWG. C-360A SHEET 158-1
CONT. ON DWG. C-360A SHEET 157-1
CONT. ON DWG. C-360A SHEET 163-1
SEE DETAIL-2
SEE DETAIL-1
CAROLINA POWER & LIGHT CO
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR DIESEL GENERATOR SERVICE WATER HANGER LOCATION
CLASS 3
C-360A
SHEET 2


W
N
S
E
N4
8"x6" RED.
AT HORZ
N3
8"x6" RED.
2-SW-V209
2-SW-V275
2-SW-V213
CONT. ON DWG
C-2409
SHEET 15L-1
CONT. ON DWG
C-2409
SHEET 15L-1
CONT. ON DWG
C-2409
SHEET 15L-1
NO. DATE BY REVISION
CAROLINA POWER & LIGHT CO
UNIT NO. 2
DRAWN 5-8-87
D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR
DIESEL GENERATOR SERVICE
WATER HAMMER LOCATION
ASME CLASS 3
C-2409
15L-1
0


W
N
S
E
N4
8"x6" RED.
45° HORZ.
2-DM-ENG-3-2KT-W-TRUE
2-SW-V274
2-SW-V272
1-SW-V274
2-SW-V208
N3
8"x6" RED.
1-DM-ENG-3-2KT-W-TRUE
CONT. ON DWG.
C-24009
SHEET 1SB-1
CAROLINA POWER & LIGHT CO.
2
INSERVICE INSPECTION PROGRAM FOR
CHANEL GENERATOR WELDS
WATER HANGER LOCATION
ASME CLASS 3
C-3409
0


W
N
S
E
N4
8" x 6" RED.
45°
N3
8" x 6" RED.
2-SW-V207
2-SW-V273
1-SW-V273
2-SW-V211
1-SW-V211
CONT. ON DWG. C-2409 SHEET 159-1
2-SW-237-6"-S7
2-SW-237-6"-S7
CONT. ON DWG. C-2409 SHEET 156-1
CONT. ON DWG. C-2409 SHEET 156-1
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
UNIT NO. 2
SERVICE WATER HANGER LOCATION
C-2409
SET 139-1
8


W
N
S
E
8"x6" RED.
45° HORZ.
2-SW-V272
2-SW-V210
8"x6" RED.
2-SW-V206
CONT. ON DWG. C-2409 SHEET 160-1
CONT. ON DWG. C-2409 SHEET 156-1
CONT. ON DWG. C-2409 SHEET 156-1
EL. 19'-4 3/4"
NO DATE BY REVISION
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
DRAWN D.E. JOHNSON
INSERVICE INSPECTION ISOMETRIC FOR DIESEL GENERATOR SERVICE WATER HANGER LOCATION
ASME CLASS 3
C-2409
ET 160-1
0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2

DRAWN C.B.&T.
D.E. JOHNSON

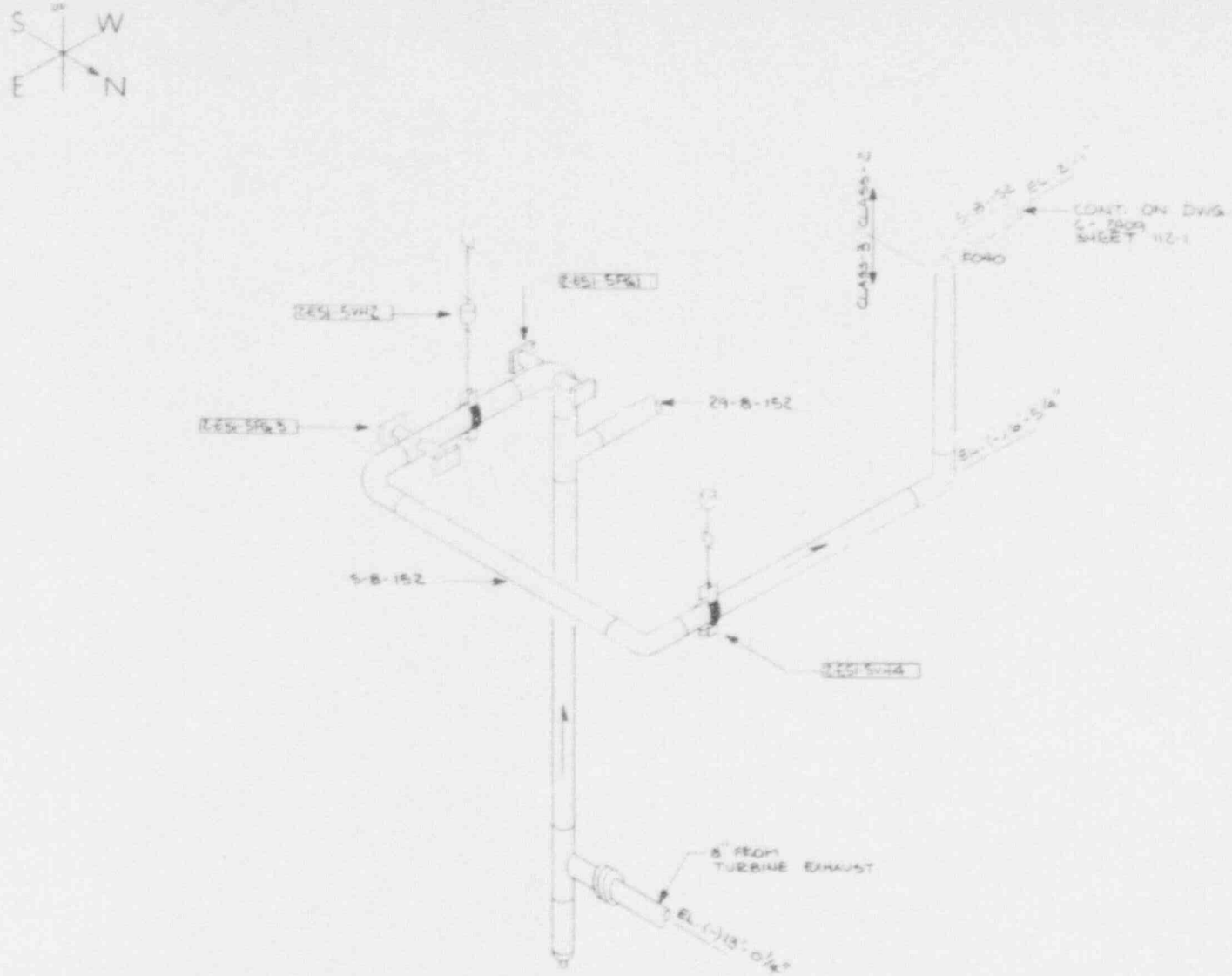
INTERVALE INSPECTION ISOMETRIC FOR RHR TO RCIC PUMP 1 SUCTION LINE HANGER LOCATION

ASME CLASS 3

C-2409

2-T-1611-1

0



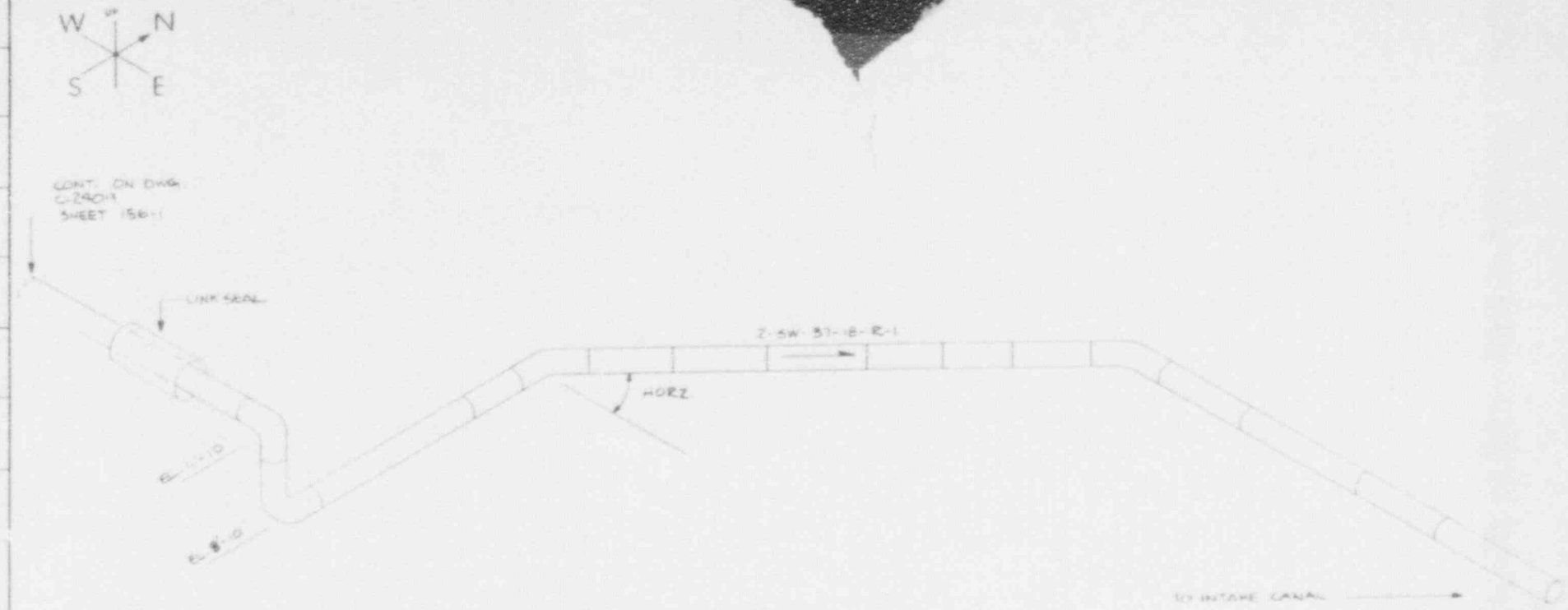
NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2

DRAWN 8-12-87
D.R. JOHNSON
CHK
APP

INSERVICE INSPECTION ISOMETRIC FOR R.C. FROM TURBINE EXHAUST TO SUPPRESSION CHAMBER HANGER LOCATION
ASME CLASS 3

C-2409 | T 162-1 | 0



NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO

UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR DIESEL GENERATOR SERVICE WATER (BURIED)

ASME CLASS 3

DRAWN BY: C.E. JOHNSON

C-2809

CT 16-1

0